

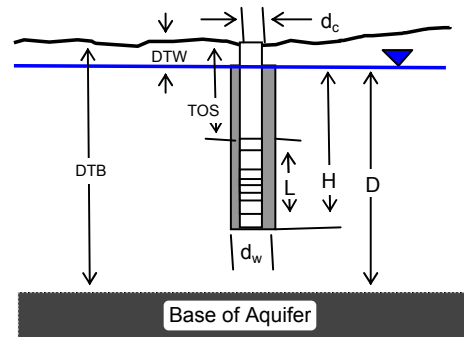
APPENDIX J
Slug Test Data – OU 1 and 2

WELL ID: MW-02

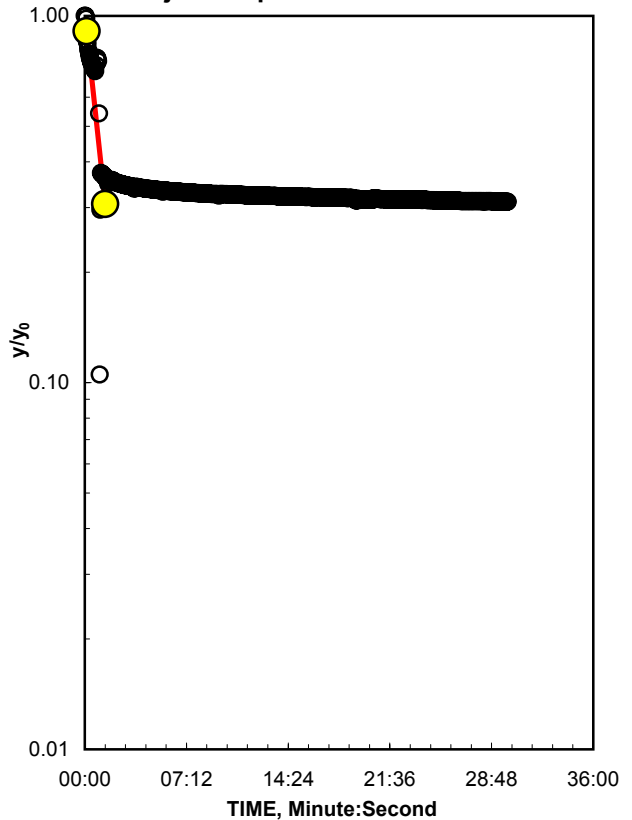
Local ID:
Date: 10/28/2004
Time: 12:52

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	5.7 Feet
top of screen (TOS)	5.98 Feet
Base of Aquifer (DTB)	20 Feet
Annular Fill:	
across screen --	Fine Sand
above screen --	Bentonite
Aquifer Material -- Fine Sand	



Adjust slope of line to estimate K



COMPUTED	
L_{wetted}	10 Feet
D =	14.3 Feet
H =	10.28 Feet
L/r_w =	29.09
y_0 -DISPLACEMENT =	133.28 cm
y_0 -SLUG =	118.78 cm
From look-up table using L/r_w	
Partial penetrate A =	2.480
B =	0.409
$\ln(Re/r_w)$ =	2.255
Re =	3.28 cm
Slope =	0.006057 \log_{10}/sec
$t_{90\%}$ recovery =	165 sec

Input is consistent.

K = 3.0E-04 cm/Second

K= 0.0003 is less than likely minimum of 0.0011 for Fine Sand

REMARKS:

Bouwer and Rice analysis of slug test, WRR 1976

Initial test

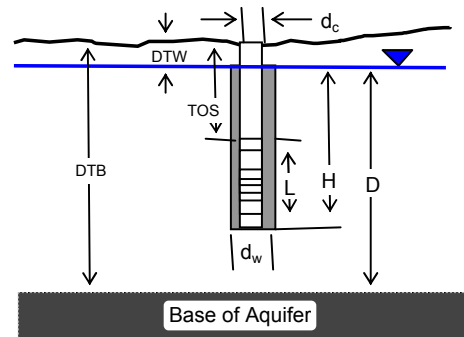
Reduced Data		
	Time,	Water
Entry	Hr:Min:Sec	Level
1	12:52:04.0	-0.12
2	12:53:04.0	-2.13
3	12:54:04.0	-2.95
4	12:55:04.0	-2.99
5	12:56:04.0	-3.02
6	12:57:04.0	-3.03
7	12:58:04.0	-3.04
8	12:59:04.0	-3.05
9	13:00:04.0	-3.06
10	13:01:04.0	-3.07
11	13:02:04.0	-3.07
12	13:03:04.0	-3.08
13	13:04:04.0	-3.08
14	13:05:04.0	-3.09
15	13:06:04.0	-3.09
16	13:07:04.0	-3.10
17	13:08:04.0	-3.10
18	13:09:04.0	-3.10
19	13:10:04.0	-3.11
20	13:11:04.0	-3.11
21	13:12:04.0	-3.12
22	13:13:04.0	-3.12
23	13:14:04.0	-3.12
24	13:15:04.0	-3.12
25	13:16:04.0	-3.12
26	13:17:04.0	-3.13
27	13:18:04.0	-3.13
28	13:19:04.0	-3.13
29	13:20:04.0	-3.13
30	13:21:04.0	-3.14

WELL ID: MW-04

Local ID:
Date: 10/27/2004
Time: 15:14

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	6.41 Feet
top of screen (TOS)	10.41 Feet
Base of Aquifer (DTB)	22.4 Feet
Annular Fill:	
across screen --	Fine Sand
above screen --	Bentonite
Aquifer Material -- Fine Sand	



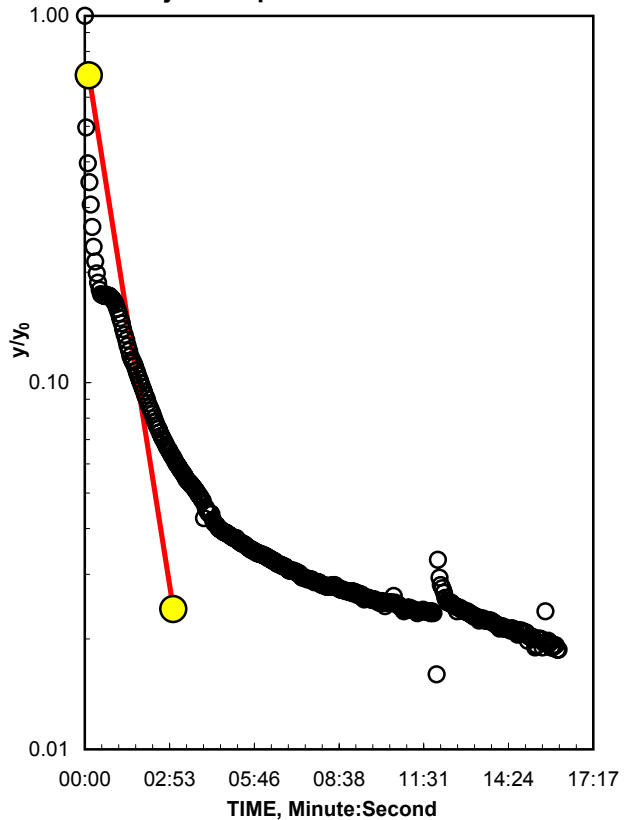
COMPUTED

L_{wetted}	10 Feet
D =	15.99 Feet
H =	14 Feet
L/r_w =	29.09
y_0 -DISPLACEMENT =	114.12 cm
y_0 -SLUG =	101.42 cm
From look-up table using L/r_w	
Partial penetrate A =	2.480
B =	0.409
$\ln(Re/r_w)$ =	2.459
Re =	4.02 cm
Slope =	0.008468 \log_{10}/sec
$t_{90\%}$ recovery =	118 sec

Input is consistent.

K = 5.0E-04 cm/Second

Adjust slope of line to estimate K



K= 0.0005 is less than likely minimum of 0.0011 for Fine Sand

REMARKS:

Bouwer and Rice analysis of slug test, WRR 1976

Initial test

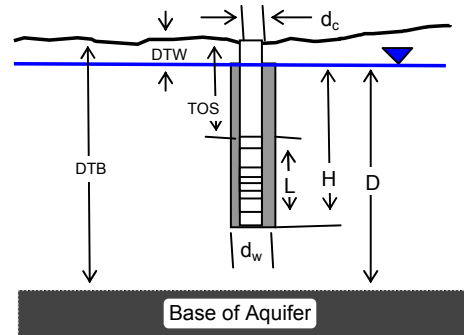
Entry	Reduced Data	
	Time, Hr:Min:Sec	Water Level
1	15:21:28.0	0.63
2	15:21:49.0	-2.32
3	15:22:10.0	-2.47
4	15:22:31.0	-2.51
5	15:22:52.0	-2.63
6	15:23:13.0	-2.71
7	15:23:34.0	-2.78
8	15:23:55.0	-2.83
9	15:24:16.0	-2.87
10	15:24:37.0	-2.90
11	15:24:58.0	-2.92
12	15:25:19.0	-2.93
13	15:25:40.0	-2.95
14	15:26:01.0	-2.97
15	15:26:22.0	-2.97
16	15:26:43.0	-2.98
17	15:27:04.0	-2.99
18	15:27:25.0	-2.99
19	15:27:46.0	-2.99
20	15:28:07.0	-3.00
21	15:28:28.0	-3.00
22	15:28:49.0	-3.01
23	15:29:10.0	-3.01
24	15:29:31.0	-3.01
25	15:29:52.0	-3.01
26	15:30:13.0	-3.02
27	15:30:34.0	-3.02
28	15:30:55.0	-3.02
29	15:31:16.0	-3.02
30	15:31:37.0	-3.02
31	15:31:58.0	-3.02
32	15:32:19.0	-3.03
33	15:32:40.0	-3.03
34	15:33:01.0	-3.03
35	15:33:22.0	-3.12
36	15:33:43.0	-3.02
37	15:34:04.0	-3.03
38	15:34:25.0	-3.03
39	15:34:46.0	-3.03
40	15:35:07.0	-3.03
41	15:35:28.0	-3.04
42	15:35:49.0	-3.04
43	15:36:10.0	-3.04
44	15:36:31.0	-3.04
45	15:36:52.0	-3.04

WELL ID: MW-06

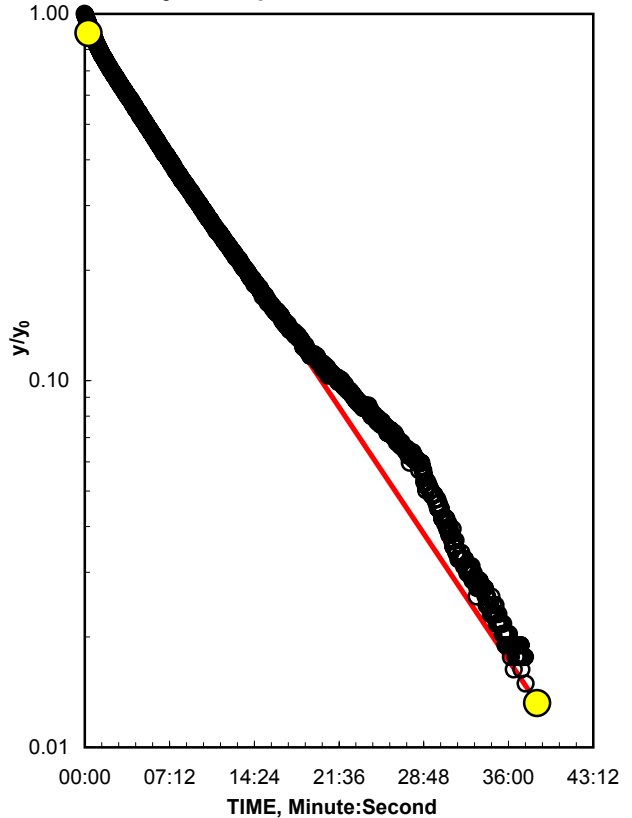
Local ID:
Date: 10/27/2004
Time: 13:07

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	2 Feet
Depths to:	
water level (DTW)	5.65 Feet
top of screen (TOS)	5.61 Feet
Base of Aquifer (DTB)	10 Feet
Annular Fill:	
across screen --	Fine Sand
above screen --	Bentonite
Aquifer Material -- Stream Terrace Depos	



Adjust slope of line to estimate K



COMPUTED	
L_{wetted}	1.96 Feet
D =	4.35 Feet
H =	1.96 Feet
L/r_w =	5.70
y_0 -DISPLACEMENT =	22.45 cm
y_0 -SLUG =	22.84 cm
From look-up table using L/r_w	
Partial penetrate A =	1.759
B =	0.242
$\ln(Re/r_w)$ =	0.978
Re =	0.91 cm
Slope =	0.000799 \log_{10}/sec
$t_{90\%}$ recovery =	1251 sec

Input is consistent.

K = 1.0E-04 cm/Second

K= 0.0001 is less than likely minimum of 0.00035 for Stream Terrace Deposit, Fort Worth, T
REMARKS: Bouwer and Rice analysis of slug test, WRR 1976

Initial test

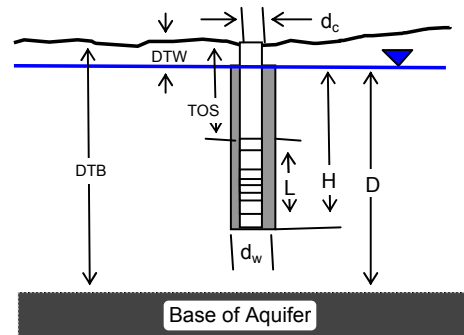
Entry	Reduced Data	
	Time, Hr:Min:Sec	Water Level
1	12:22:16.0	-2.78
2	12:23:04.0	-2.88
3	12:23:52.0	-2.95
4	12:24:40.0	-3.01
5	12:25:28.0	-3.05
6	12:26:16.0	-3.09
7	12:27:04.0	-3.13
8	12:27:52.0	-3.16
9	12:28:40.0	-3.19
10	12:29:28.0	-3.22
11	12:30:16.0	-3.24
12	12:31:04.0	-3.27
13	12:31:52.0	-3.29
14	12:32:40.0	-3.31
15	12:33:28.0	-3.32
16	12:34:16.0	-3.34
17	12:35:04.0	-3.35
18	12:35:52.0	-3.36
19	12:36:40.0	-3.38
20	12:37:28.0	-3.39
21	12:38:16.0	-3.40
22	12:39:04.0	-3.40
23	12:39:52.0	-3.41
24	12:40:40.0	-3.42
25	12:41:28.0	-3.43
26	12:42:16.0	-3.43
27	12:43:04.0	-3.43
28	12:43:52.0	-3.44
29	12:44:40.0	-3.44
30	12:45:28.0	-3.45
31	12:46:16.0	-3.45
32	12:47:04.0	-3.45
33	12:47:52.0	-3.46
34	12:48:40.0	-3.46
35	12:49:28.0	-3.46
36	12:50:16.0	-3.47
37	12:51:04.0	-3.47
38	12:51:52.0	-3.48
39	#N/A	#N/A
40	#N/A	#N/A
41	#N/A	#N/A
42	#N/A	#N/A
43	#N/A	#N/A
44	#N/A	#N/A
45	#N/A	#N/A

WELL ID: MW-07

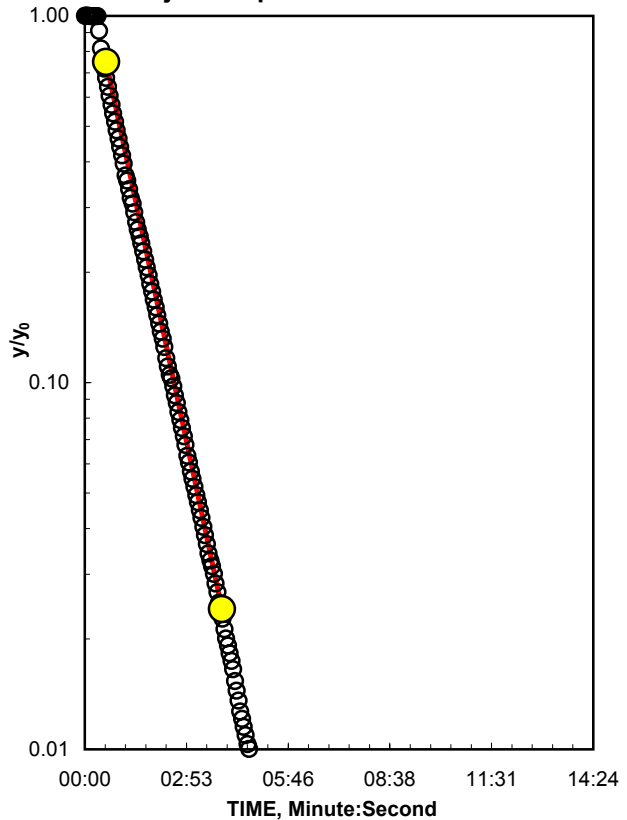
Local ID:
Date: 10/27/2004
Time: 14:43

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	5.72 Feet
top of screen (TOS)	10.39 Feet
Base of Aquifer (DTB)	22.4 Feet
Annular Fill:	
across screen --	Fine Sand
above screen --	Bentonite
Aquifer Material -- Fine Sand	



Adjust slope of line to estimate K



COMPUTED	
L_{wetted}	10 Feet
D =	16.68 Feet
H =	14.67 Feet
L/r_w =	29.09
y_0 -DISPLACEMENT =	103.25 cm
y_0 -SLUG =	103.55 cm
From look-up table using L/r_w	
Partial penetrate A =	2.480
B =	0.409
$\ln(Re/r_w)$ =	2.481
Re =	4.11 cm
Slope =	0.007574 \log_{10}/sec
$t_{90\%}$ recovery =	132 sec

Input is consistent.

K = 5.0E-04 cm/Second

K= 0.0005 is less than likely minimum of 0.0011 for Fine Sand

REMARKS:

Bouwer and Rice analysis of slug test, WRR 1976

Initial test

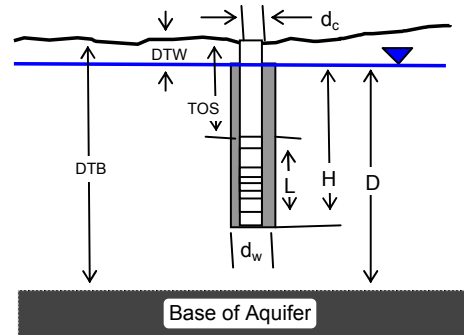
Entry	Reduced Data	
	Time, Hr:Min:Sec	Water Level
1	14:55:01.0	-3.18
2	14:55:16.0	-3.18
3	14:55:31.0	-3.98
4	14:55:46.0	-4.62
5	14:56:01.0	-5.08
6	14:56:16.0	-5.43
7	14:56:31.0	-5.68
8	14:56:46.0	-5.87
9	14:57:01.0	-6.02
10	14:57:16.0	-6.14
11	14:57:31.0	-6.23
12	14:57:46.0	-6.31
13	14:58:01.0	-6.37
14	14:58:16.0	-6.41
15	14:58:31.0	-6.45
16	14:58:46.0	-6.47
17	14:59:01.0	-6.50
18	14:59:16.0	-6.51
19	14:59:31.0	-6.53
20	14:59:46.0	-6.54
21	15:00:01.0	-6.54
22	15:00:16.0	-6.55
23	15:00:31.0	-6.55
24	15:00:46.0	-6.55
25	15:01:01.0	-6.55
26	15:01:16.0	-6.55
27	15:01:31.0	-6.55
28	15:01:46.0	-6.55
29	15:02:01.0	-6.56
30	15:02:16.0	-6.56
31	15:02:31.0	-6.56
32	15:02:46.0	-6.56
33	15:03:01.0	-6.56
34	15:03:16.0	-6.56
35	15:03:31.0	-6.56
36	15:03:46.0	-6.56
37	15:04:01.0	-6.56
38	15:04:16.0	-6.56
39	15:04:31.0	-6.56
40	15:04:46.0	-6.56
41	15:05:01.0	-6.56
42	15:05:16.0	-6.56
43	15:05:31.0	-6.56
44	15:05:46.0	-6.56
45	15:06:01.0	-6.56

WELL ID: MW-09

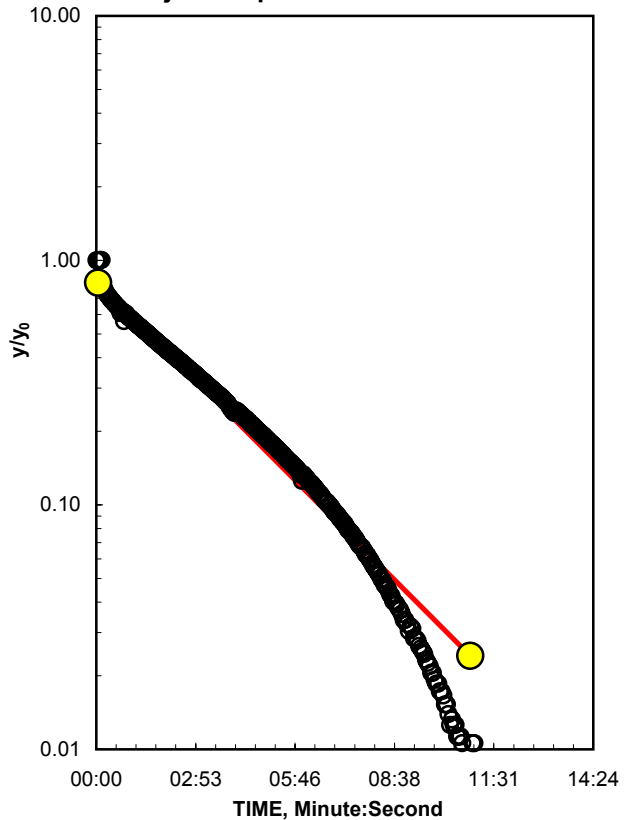
Local ID:
Date: 10/27/2004
Time: 14:23

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	6.84 Feet
top of screen (TOS)	9.51 Feet
Base of Aquifer (DTB)	21.5 Feet
Annular Fill:	
across screen --	Fine Sand
above screen --	Bentonite
Aquifer Material -- Fine Sand	



Adjust slope of line to estimate K



COMPUTED	
L_{wetted}	10 Feet
D =	14.66 Feet
H =	12.67 Feet
L/r_w =	29.09
y_0 -DISPLACEMENT =	45.96 cm
y_0 -SLUG =	45.69 cm
From look-up table using L/r_w	
Partial penetrate A =	2.480
B =	0.409
$\ln(Re/r_w)$ =	2.410
Re =	3.83 cm
Slope =	0.002358 \log_{10}/sec
$t_{90\%}$ recovery =	424 sec

Input is consistent.

K = 1.0E-04 cm/Second

K= 0.0001 is less than likely minimum of 0.0011 for Fine Sand

REMARKS:

Bouwer and Rice analysis of slug test, WRR 1976

Initial test

Entry	Reduced Data	
	Time, Hr:Min:Sec	Water Level
1	14:22:34.0	-3.88
2	14:22:49.0	-4.25
3	14:23:04.0	-4.38
4	14:23:19.0	-4.45
5	14:23:34.0	-4.52
6	14:23:49.0	-4.58
7	14:24:04.0	-4.63
8	14:24:19.0	-4.69
9	14:24:34.0	-4.73
10	14:24:49.0	-4.78
11	14:25:04.0	-4.82
12	14:25:19.0	-4.85
13	14:25:34.0	-4.89
14	14:25:49.0	-4.93
15	14:26:04.0	-4.96
16	14:26:19.0	-4.99
17	14:26:34.0	-5.03
18	14:26:49.0	-5.04
19	14:27:04.0	-5.07
20	14:27:19.0	-5.09
21	14:27:34.0	-5.11
22	14:27:49.0	-5.13
23	14:28:04.0	-5.15
24	14:28:19.0	-5.17
25	14:28:34.0	-5.19
26	14:28:49.0	-5.21
27	14:29:04.0	-5.22
28	14:29:19.0	-5.24
29	14:29:34.0	-5.25
30	14:29:49.0	-5.27
31	14:30:04.0	-5.28
32	14:30:19.0	-5.29
33	14:30:34.0	-5.30
34	14:30:49.0	-5.31
35	14:31:04.0	-5.32
36	14:31:19.0	-5.33
37	14:31:34.0	-5.34
38	14:31:49.0	-5.35
39	14:32:04.0	-5.35
40	14:32:19.0	-5.36
41	14:32:34.0	-5.36
42	14:32:49.0	-5.37
43	14:33:04.0	-5.37
44	14:33:19.0	-5.39
45	14:33:34.0	-5.37

WELL ID: MW-10

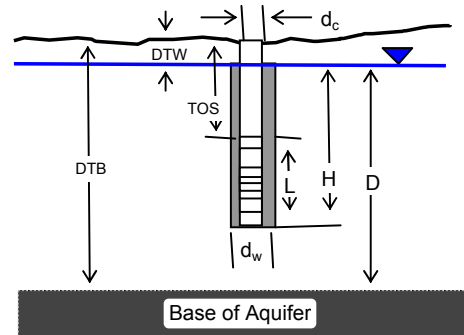
Local ID:

Date: 10/27/2004

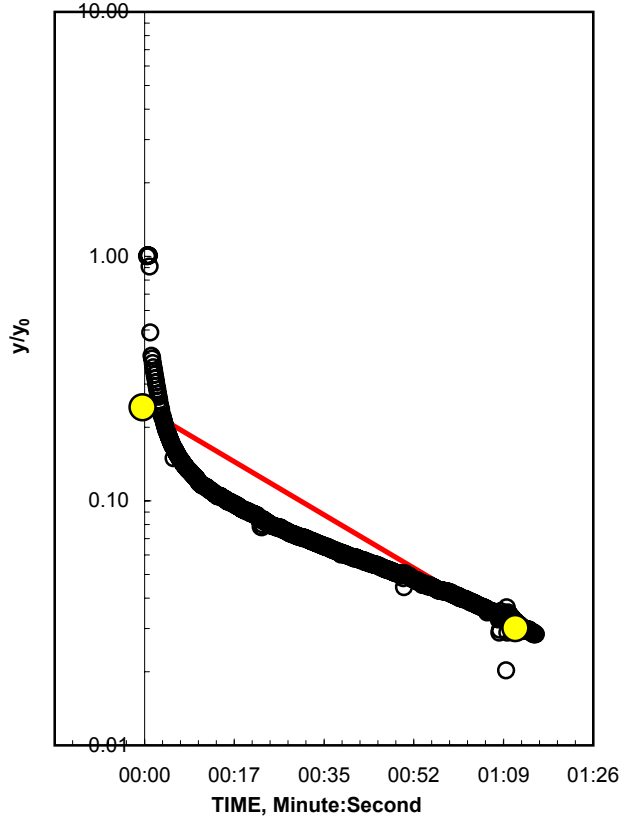
Time: 9:08

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	2 Feet
Depths to:	
water level (DTW)	6.01 Feet
top of screen (TOS)	5.71 Feet
Base of Aquifer (DTB)	10 Feet
Annular Fill:	
across screen --	Fine Sand
above screen --	Bentonite
Aquifer Material -- Stream Terrace Depos	



Adjust slope of line to estimate K



COMPUTED

L_{wetted}	1.7 Feet
D =	3.99 Feet
H =	1.7 Feet
L/r_w =	4.95
y_0 -DISPLACEMENT =	70.72 cm
y_0 -SLUG =	68.53 cm
From look-up table using L/r_w	
Partial penetrate A =	1.740
B =	0.230
$\ln(Re/r_w)$ =	0.886
Re =	0.83 cm
Slope =	0.012577 \log_{10}/sec
$t_{90\%}$ recovery =	80 sec

Input is consistent.

K = 2.0E-03 cm/Second

REMARKS:

Bouwer and Rice analysis of slug test, WRR 1976

Initial test

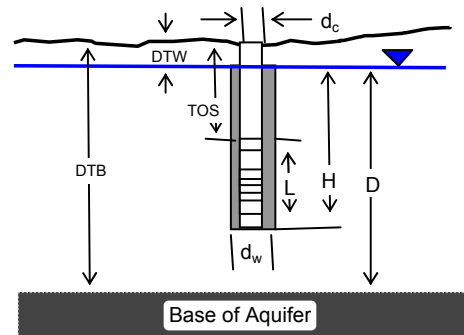
Entry	Reduced Data	
	Time, Hr:Min:Sec	Water Level
1	0:27:31.3	0.00
2	0:27:33.0	-1.59
3	0:27:34.6	-1.83
4	0:27:36.2	-1.93
5	0:27:37.8	-1.98
6	0:27:39.5	-2.01
7	0:27:41.1	-2.04
8	0:27:42.7	-2.06
9	0:27:44.3	-2.07
10	0:27:46.0	-2.08
11	0:27:47.6	-2.09
12	0:27:49.2	-2.10
13	0:27:50.8	-2.11
14	0:27:52.5	-2.12
15	0:27:54.1	-2.13
16	0:27:55.7	-2.14
17	0:27:57.3	-2.14
18	0:27:59.0	-2.15
19	0:28:00.6	-2.16
20	0:28:02.2	-2.16
21	0:28:03.8	-2.17
22	0:28:05.5	-2.17
23	0:28:07.1	-2.18
24	0:28:08.7	-2.18
25	0:28:10.3	-2.18
26	0:28:12.0	-2.19
27	0:28:13.6	-2.19
28	0:28:15.2	-2.20
29	0:28:16.8	-2.20
30	0:28:18.5	-2.20
31	0:28:20.1	-2.21
32	0:28:21.7	-2.21
33	0:28:23.3	-2.21
34	0:28:25.0	-2.22
35	0:28:26.6	-2.22
36	0:28:28.2	-2.22
37	0:28:29.8	-2.22
38	0:28:31.5	-2.23
39	0:28:33.1	-2.23
40	0:28:34.7	-2.23
41	0:28:36.3	-2.24
42	0:28:38.0	-2.24
43	0:28:39.6	-2.24
44	0:28:41.2	-2.24
45	0:28:42.8	-2.25

WELL ID: MW-12

Local ID:
Date: 10/28/2004
Time: 12:52

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	2 Feet
Depths to:	
water level (DTW)	5.18 Feet
top of screen (TOS)	5.78 Feet
Base of Aquifer (DTB)	10 Feet
Annular Fill:	
across screen --	Fine Sand
above screen --	Bentonite
Aquifer Material -- Fine Sand	



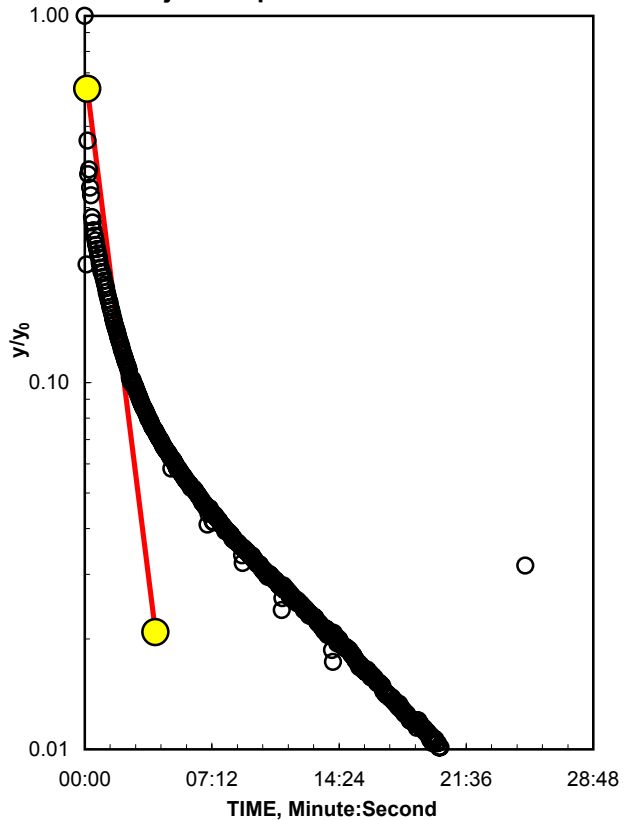
COMPUTED

L_{wetted}	2 Feet
D =	4.82 Feet
H =	2.6 Feet
L/r_w =	5.82
y_0 -DISPLACEMENT =	114.43 cm
y_0 -SLUG =	114.52 cm
From look-up table using L/r_w	
Partial penetrate A =	1.762
B =	0.244
$\ln(Re/r_w)$ =	1.081
Re =	1.01 cm
Slope =	0.0064 \log_{10}/sec
$t_{90\%}$ recovery =	156 sec

Input is consistent.

K = 8.0E-04 cm/Second

Adjust slope of line to estimate K



K= 0.0008 is less than likely minimum of 0.0011 for Fine Sand

REMARKS:

Bouwer and Rice analysis of slug test, WRR 1976

Initial test

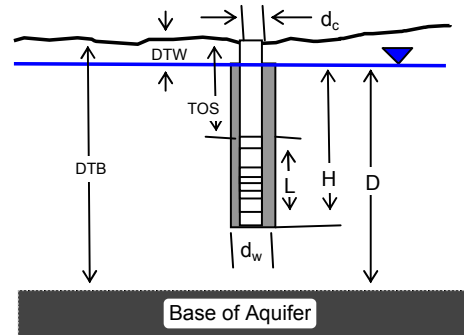
Entry	Reduced Data	
	Time, Hr:Min:Sec	Water Level
1	13:55:01.0	-0.11
2	13:55:34.0	-2.93
3	13:56:07.0	-3.16
4	13:56:40.0	-3.32
5	13:57:13.0	-3.42
6	13:57:46.0	-3.49
7	13:58:19.0	-3.55
8	13:58:52.0	-3.59
9	13:59:25.0	-3.61
10	13:59:58.0	-3.64
11	14:00:31.0	-3.66
12	14:01:04.0	-3.67
13	14:01:37.0	-3.69
14	14:02:10.0	-3.70
15	14:02:43.0	-3.71
16	14:03:16.0	-3.72
17	14:03:49.0	-3.73
18	14:04:22.0	-3.74
19	14:04:55.0	-3.75
20	14:05:28.0	-3.76
21	14:06:01.0	-3.76
22	14:06:34.0	-3.77
23	14:07:07.0	-3.77
24	14:07:40.0	-3.78
25	14:08:13.0	-3.79
26	14:08:46.0	-3.79
27	14:09:19.0	-3.80
28	14:09:52.0	-3.80
29	14:10:25.0	-3.80
30	14:10:58.0	-3.81
31	14:11:31.0	-3.81
32	14:12:04.0	-3.82
33	14:12:37.0	-3.82
34	14:13:10.0	-3.82
35	14:13:43.0	-3.83
36	14:14:16.0	-3.83
37	14:14:49.0	-3.83
38	14:15:22.0	-3.83
39	14:15:55.0	-3.84
40	14:16:28.0	-3.84
41	14:17:01.0	-3.84
42	14:17:34.0	-3.84
43	14:18:07.0	-3.84
44	14:18:40.0	-3.85
45	14:19:13.0	-3.84

WELL ID: MW-13

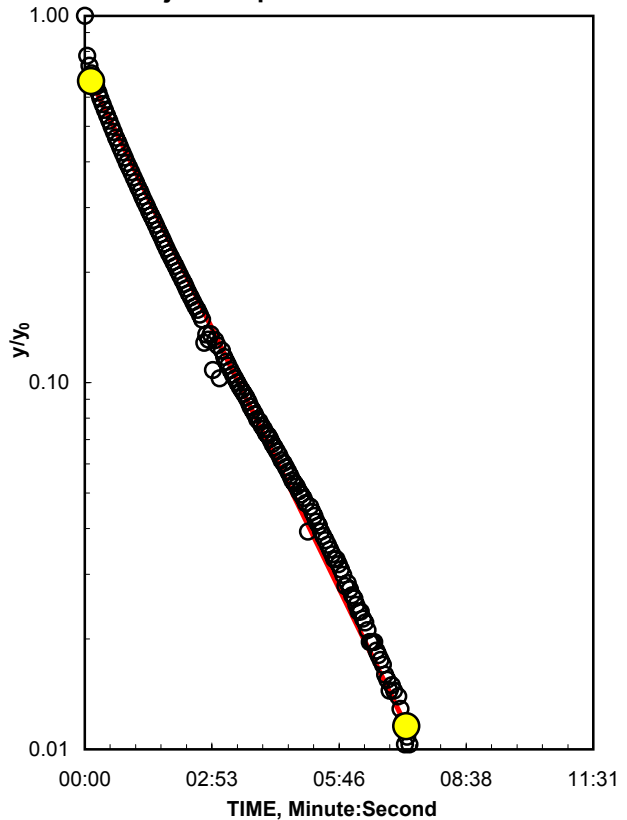
Local ID:
 Date: 10/27/2004
 Time: 10:47

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	7.19 Feet
top of screen (TOS)	10.24 Feet
Base of Aquifer (DTB)	25 Feet
Annular Fill:	
across screen --	Fine Sand
above screen --	Bentonite
Aquifer Material -- Fine Sand	



Adjust slope of line to estimate K



COMPUTED

L_{wetted}	10 Feet
D =	17.81 Feet
H =	13.05 Feet
L/r_w =	29.09
y_0 -DISPLACEMENT =	59.09 cm
y_0 -SLUG =	59.09 cm
From look-up table using L/r_w	
Partial penetrate A =	2.480
B =	0.409
$\ln(Re/r_w)$ =	2.355
Re =	3.62 cm
Slope =	0.004105 \log_{10}/sec
$t_{90\%}$ recovery =	244 sec

Input is consistent.

K = 2.0E-04 cm/Second

K= 0.0002 is less than likely minimum of 0.0011 for Fine Sand

REMARKS:

Bouwer and Rice analysis of slug test, WRR 1976

Initial test

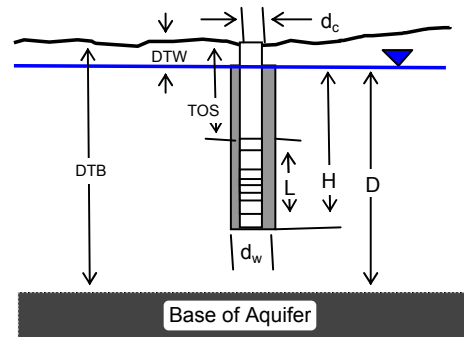
Entry	Reduced Data	
	Time, Hr:Min:Sec	Water Level
1	10:51:32.0	0.01
2	10:51:41.0	-0.59
3	10:51:50.0	-0.74
4	10:51:59.0	-0.86
5	10:52:08.0	-0.97
6	10:52:17.0	-1.06
7	10:52:26.0	-1.14
8	10:52:35.0	-1.21
9	10:52:44.0	-1.27
10	10:52:53.0	-1.33
11	10:53:02.0	-1.38
12	10:53:11.0	-1.43
13	10:53:20.0	-1.47
14	10:53:29.0	-1.51
15	10:53:38.0	-1.54
16	10:53:47.0	-1.58
17	10:53:56.0	-1.60
18	10:54:05.0	-1.63
19	10:54:14.0	-1.69
20	10:54:23.0	-1.67
21	10:54:32.0	-1.69
22	10:54:41.0	-1.71
23	10:54:50.0	-1.73
24	10:54:59.0	-1.74
25	10:55:08.0	-1.75
26	10:55:17.0	-1.77
27	10:55:26.0	-1.78
28	10:55:35.0	-1.79
29	10:55:44.0	-1.80
30	10:55:53.0	-1.81
31	10:56:02.0	-1.82
32	10:56:11.0	-1.83
33	10:56:20.0	-1.83
34	10:56:29.0	-1.84
35	10:56:38.0	-1.85
36	10:56:47.0	-1.85
37	10:56:56.0	-1.86
38	10:57:05.0	-1.87
39	10:57:14.0	-1.87
40	10:57:23.0	-1.88
41	10:57:32.0	-1.88
42	10:57:41.0	-1.89
43	10:57:50.0	-1.89
44	10:57:59.0	-1.90
45	10:58:08.0	-1.90

WELL ID: MW-14

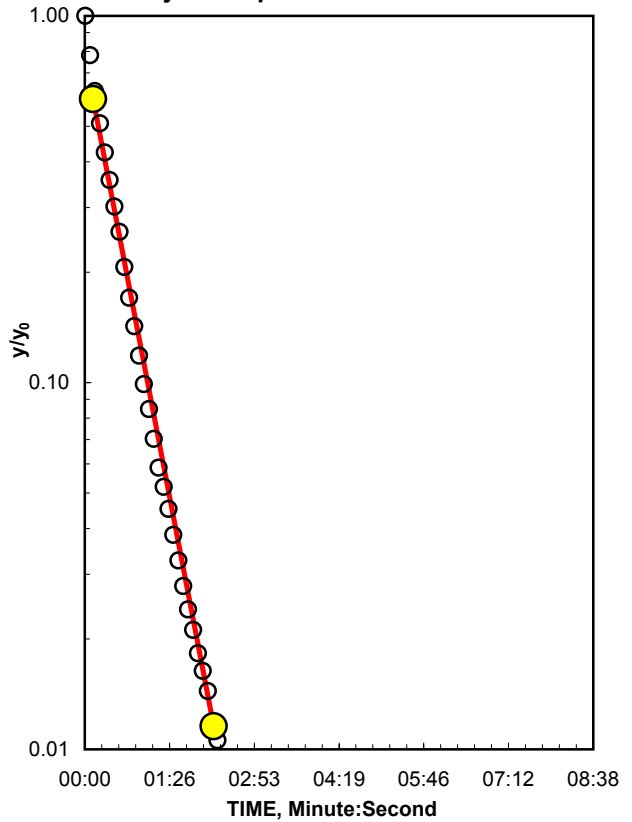
Local ID:
Date: 10/27/2004
Time: 10:05

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	7.36 Feet
top of screen (TOS)	10.38 Feet
Base of Aquifer (DTB)	25 Feet
Annular Fill:	
across screen --	Fine Sand
above screen --	Bentonite
Aquifer Material -- Fine Sand	



Adjust slope of line to estimate K



COMPUTED	
L_{wetted}	10 Feet
D =	17.64 Feet
H =	13.02 Feet
L/r_w =	29.09
y_0 -DISPLACEMENT =	31.68 cm
y_0 -SLUG =	31.68 cm
From look-up table using L/r_w	
Partial penetrate A =	2.480
B =	0.409
$\ln(Re/r_w)$ =	2.356
Re =	3.63 cm
Slope =	0.013938 \log_{10}/sec
$t_{90\%}$ recovery =	72 sec

Input is consistent.

K = 8.0E-04 cm/Second

K= 0.0008 is less than likely minimum of 0.0011 for Fine Sand

REMARKS:

Bouwer and Rice analysis of slug test, WRR 1976

Initial test

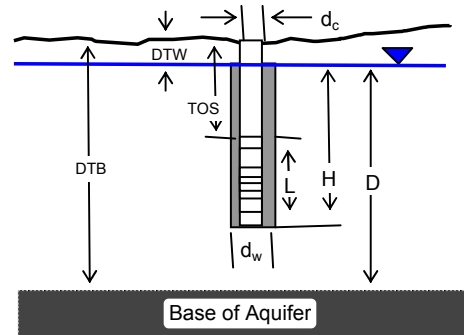
Entry	Reduced Data	
	Time, Hr:Min:Sec	Water Level
1	10:00:49.0	-4.16
2	10:00:54.0	-4.38
3	10:00:59.0	-4.55
4	10:01:04.0	-4.67
5	10:01:09.0	-4.76
6	10:01:14.0	-4.83
7	10:01:19.0	-4.88
8	10:01:24.0	-4.93
9	10:01:29.0	-4.98
10	10:01:34.0	-5.02
11	10:01:39.0	-5.05
12	10:01:44.0	-5.07
13	10:01:49.0	-5.09
14	10:01:54.0	-5.11
15	10:01:59.0	-5.12
16	10:02:04.0	-5.14
17	10:02:09.0	-5.14
18	10:02:14.0	-5.15
19	10:02:19.0	-5.16
20	10:02:24.0	-5.16
21	10:02:29.0	-5.17
22	10:02:34.0	-5.17
23	10:02:39.0	-5.17
24	10:02:44.0	-5.18
25	10:02:49.0	-5.18
26	10:02:54.0	-5.18
27	10:02:59.0	-5.18
28	10:03:04.0	-5.19
29	10:03:09.0	-5.19
30	10:03:14.0	-5.19
31	10:03:19.0	-5.19
32	10:03:24.0	-5.19
33	10:03:29.0	-5.19
34	10:03:34.0	-5.19
35	10:03:39.0	-5.19
36	10:03:44.0	-5.19
37	10:03:49.0	-5.19
38	10:03:54.0	-5.19
39	10:03:59.0	-5.19
40	10:04:04.0	-5.19
41	10:04:09.0	-5.19
42	10:04:14.0	-5.19
43	10:04:19.0	-5.19
44	10:04:24.0	-5.19
45	10:04:29.0	-5.19

WELL ID: MW-15

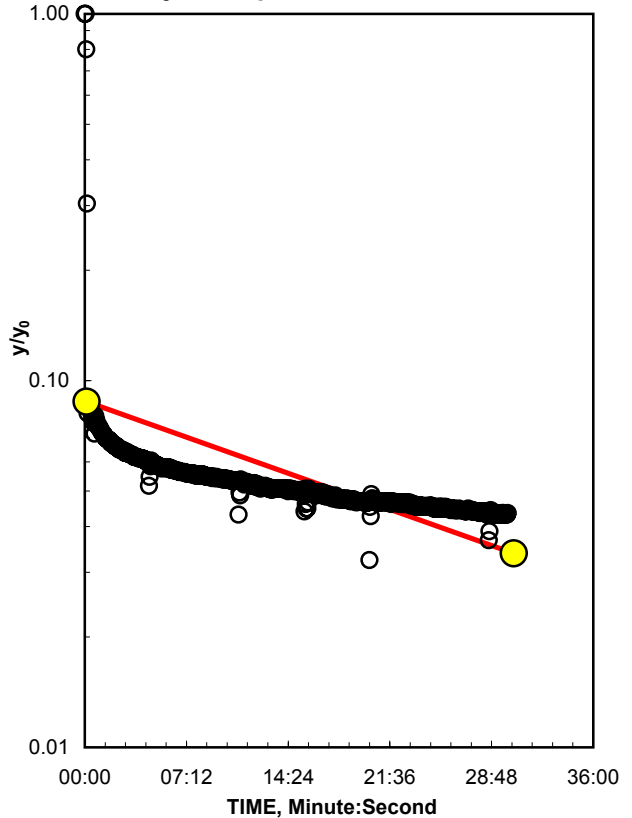
Local ID:
Date: 10/22/2004
Time: 13:25

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	2 Feet
Depths to:	
water level (DTW)	5 Feet
top of screen (TOS)	4.99 Feet
Base of Aquifer (DTB)	9 Feet
Annular Fill:	
across screen --	Fine Sand
above screen --	Bentonite
Aquifer Material -- Fine Sand	



Adjust slope of line to estimate K



COMPUTED	
L_{wetted}	1.99 Feet
D =	4 Feet
H =	1.99 Feet
L/r_w =	5.79
y_0 -DISPLACEMENT =	71.42 cm
y_0 -SLUG =	73.10 cm
From look-up table using L/r_w	
Partial penetrate A =	1.761
B =	0.244
$\ln(Re/r_w)$ =	0.995
Re =	0.93 cm
Slope =	0.000228 \log_{10}/sec
$t_{90\%}$ recovery =	4393 sec

Input is consistent.

K = 3.0E-05 cm/Second

K= 0.00003 is less than likely minimum of 0.0011 for Fine Sand

REMARKS:

Bouwer and Rice analysis of slug test, WRR 1976

Initial test

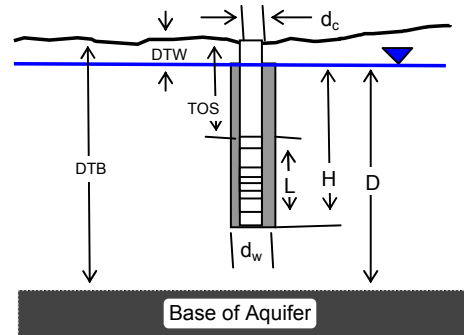
Entry	Reduced Data	
	Time, Hr:Min:Sec	Water Level
1	15:16:00.0	0.03
2	15:16:39.0	-2.14
3	15:17:18.0	-2.15
4	15:17:57.0	-2.16
5	15:18:36.0	-2.16
6	15:19:15.0	-2.17
7	15:19:54.0	-2.17
8	15:20:33.0	-2.20
9	15:21:12.0	-2.18
10	15:21:51.0	-2.18
11	15:22:30.0	-2.18
12	15:23:09.0	-2.19
13	15:23:48.0	-2.19
14	15:24:27.0	-2.19
15	15:25:06.0	-2.19
16	15:25:45.0	-2.19
17	15:26:24.0	-2.19
18	15:27:03.0	-2.19
19	15:27:42.0	-2.19
20	15:28:21.0	-2.20
21	15:29:00.0	-2.20
22	15:29:39.0	-2.20
23	15:30:18.0	-2.20
24	15:30:57.0	-2.20
25	15:31:36.0	-2.20
26	15:32:15.0	-2.20
27	15:32:54.0	-2.20
28	15:33:33.0	-2.20
29	15:34:12.0	-2.20
30	15:34:51.0	-2.21
31	15:35:30.0	-2.21
32	15:36:09.0	-2.24
33	15:36:48.0	-2.21
34	15:37:27.0	-2.21
35	15:38:06.0	-2.21
36	15:38:45.0	-2.21
37	15:39:24.0	-2.21
38	15:40:03.0	-2.21
39	15:40:42.0	-2.21
40	15:41:21.0	-2.21
41	15:42:00.0	-2.21
42	15:42:39.0	-2.21
43	15:43:18.0	-2.21
44	15:43:57.0	-2.21
45	15:44:36.0	-2.23

WELL ID: MW-16

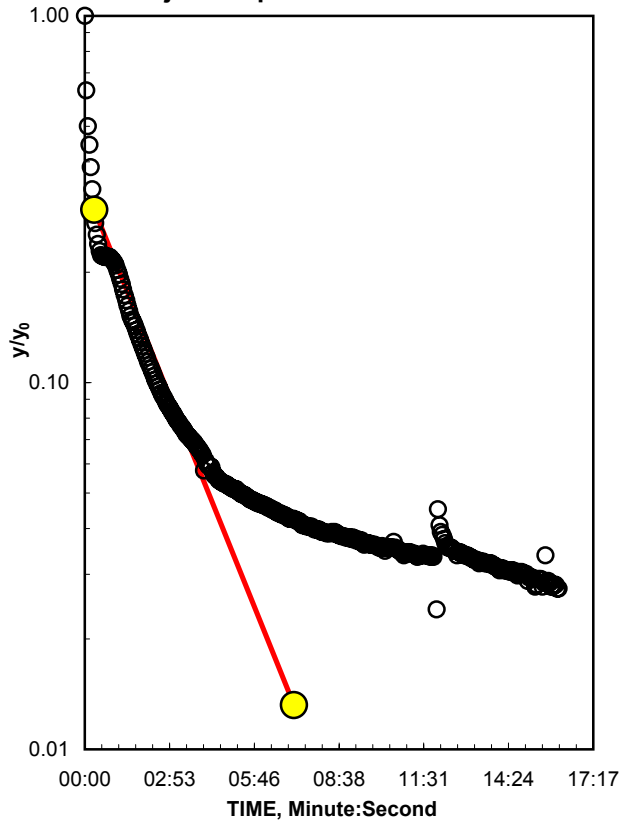
Local ID:
Date: 10/27/2004
Time: 13:07

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	4.89 Feet
top of screen (TOS)	9.84 Feet
Base of Aquifer (DTB)	20 Feet
Annular Fill:	
across screen --	Fine Sand
above screen --	Bentonite
Aquifer Material -- Fine Sand	



Adjust slope of line to estimate K



COMPUTED

L_{wetted}	10 Feet
D =	15.11 Feet
H =	14.95 Feet
L/r_w =	29.09
y_0 -DISPLACEMENT =	91.07 cm
y_0 -SLUG =	91.37 cm
From look-up table using L/r_w	

Fully penetrate C =	2.041
$\ln(Re/r_w)$ =	2.765
Re =	5.46 cm
Slope =	0.00332 \log_{10}/sec
$t_{90\%}$ recovery =	301 sec

Input is consistent.

K = 2.0E-04 cm/Second

K= 0.0002 is less than likely minimum of 0.0011 for Fine Sand

REMARKS:

Bouwer and Rice analysis of slug test, WRR 1976

Initial test

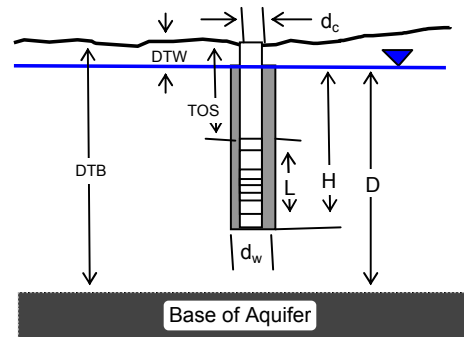
Entry	Reduced Data	
	Time, Hr:Min:Sec	Water Level
1	15:21:28.0	-0.14
2	15:21:49.0	-2.32
3	15:22:10.0	-2.47
4	15:22:31.0	-2.51
5	15:22:52.0	-2.63
6	15:23:13.0	-2.71
7	15:23:34.0	-2.78
8	15:23:55.0	-2.83
9	15:24:16.0	-2.87
10	15:24:37.0	-2.90
11	15:24:58.0	-2.92
12	15:25:19.0	-2.93
13	15:25:40.0	-2.95
14	15:26:01.0	-2.97
15	15:26:22.0	-2.97
16	15:26:43.0	-2.98
17	15:27:04.0	-2.99
18	15:27:25.0	-2.99
19	15:27:46.0	-2.99
20	15:28:07.0	-3.00
21	15:28:28.0	-3.00
22	15:28:49.0	-3.01
23	15:29:10.0	-3.01
24	15:29:31.0	-3.01
25	15:29:52.0	-3.01
26	15:30:13.0	-3.02
27	15:30:34.0	-3.02
28	15:30:55.0	-3.02
29	15:31:16.0	-3.02
30	15:31:37.0	-3.02
31	15:31:58.0	-3.02
32	15:32:19.0	-3.03
33	15:32:40.0	-3.03
34	15:33:01.0	-3.03
35	15:33:22.0	-3.12
36	15:33:43.0	-3.02
37	15:34:04.0	-3.03
38	15:34:25.0	-3.03
39	15:34:46.0	-3.03
40	15:35:07.0	-3.03
41	15:35:28.0	-3.04
42	15:35:49.0	-3.04
43	15:36:10.0	-3.04
44	15:36:31.0	-3.04
45	15:36:52.0	-3.04

WELL ID: MW-17

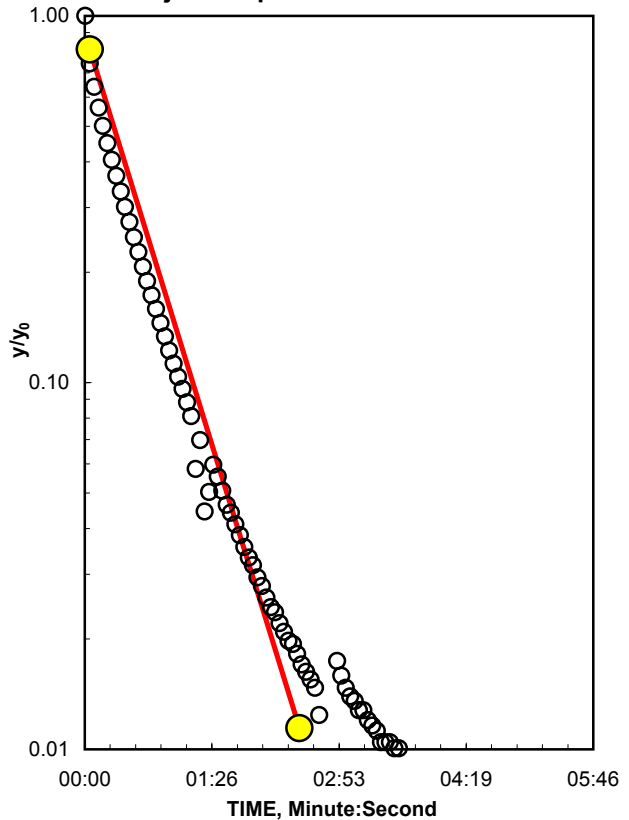
Local ID:
Date: 10/27/2004
Time: 13:30

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	5.87 Feet
top of screen (TOS)	9.45 Feet
Base of Aquifer (DTB)	21.5 Feet
Annular Fill:	
across screen --	Fine Sand
above screen --	Bentonite
Aquifer Material -- Fine Sand	



Adjust slope of line to estimate K



COMPUTED	
L_{wetted}	10 Feet
D =	15.63 Feet
H =	13.58 Feet
L/r_w =	29.09
y_0 -DISPLACEMENT =	78.67 cm
y_0 -SLUG =	79.19 cm
From look-up table using L/r_w	
Partial penetrate A =	2.480
B =	0.409
$\ln(Re/r_w)$ =	2.442
Re =	3.95 cm
Slope =	0.012977 \log_{10}/sec
$t_{90\%}$ recovery =	77 sec

Input is consistent.

K = 8.0E-04 cm/Second

K= 0.0008 is less than likely minimum of 0.0011 for Fine Sand

REMARKS:

Bouwer and Rice analysis of slug test, WRR 1976

Initial test

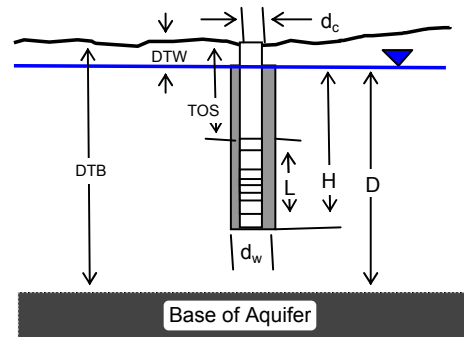
Entry	Reduced Data	
	Time, Hr:Min:Sec	Water Level
1	13:41:55.0	-3.79
	#N/A	#N/A
3	13:42:01.0	-4.71
4	13:42:04.0	-4.92
5	13:42:07.0	-5.08
6	13:42:10.0	-5.21
7	13:42:13.0	-5.32
8	13:42:16.0	-5.42
9	13:42:19.0	-5.51
10	13:42:22.0	-5.59
11	13:42:25.0	-5.66
12	13:42:28.0	-5.73
13	13:42:31.0	-5.78
14	13:42:34.0	-5.83
15	13:42:37.0	-5.88
16	13:42:40.0	-5.92
17	13:42:43.0	-5.96
18	13:42:46.0	-5.99
19	13:42:49.0	-6.02
20	13:42:52.0	-6.05
21	13:42:55.0	-6.08
22	13:42:58.0	-6.10
23	13:43:01.0	-6.12
24	13:43:04.0	-6.14
25	13:43:07.0	-6.16
26	13:43:10.0	-6.22
27	13:43:13.0	-6.19
28	13:43:16.0	-6.25
29	13:43:19.0	-6.24
30	13:43:22.0	-6.22
31	13:43:25.0	-6.23
32	13:43:28.0	-6.24
33	13:43:31.0	-6.25
34	13:43:34.0	-6.26
35	13:43:37.0	-6.26
36	13:43:40.0	-6.27
37	13:43:43.0	-6.28
38	13:43:46.0	-6.28
39	13:43:49.0	-6.29
40	13:43:52.0	-6.29
41	13:43:55.0	-6.30
42	13:43:58.0	-6.30
43	13:44:01.0	-6.31
44	13:44:04.0	-6.31
45	13:44:07.0	-6.31

WELL ID: MW-18

Local ID:
Date: 10/22/2004
Time: 13:25

INPUT

Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	8.25 Inch
Screen Length (L)	2 Feet
Depths to:	
water level (DTW)	5.17 Feet
top of screen (TOS)	5.71 Feet
Base of Aquifer (DTB)	10 Feet
Annular Fill:	
across screen --	Fine Sand
above screen --	Bentonite
Aquifer Material -- Fine Sand	



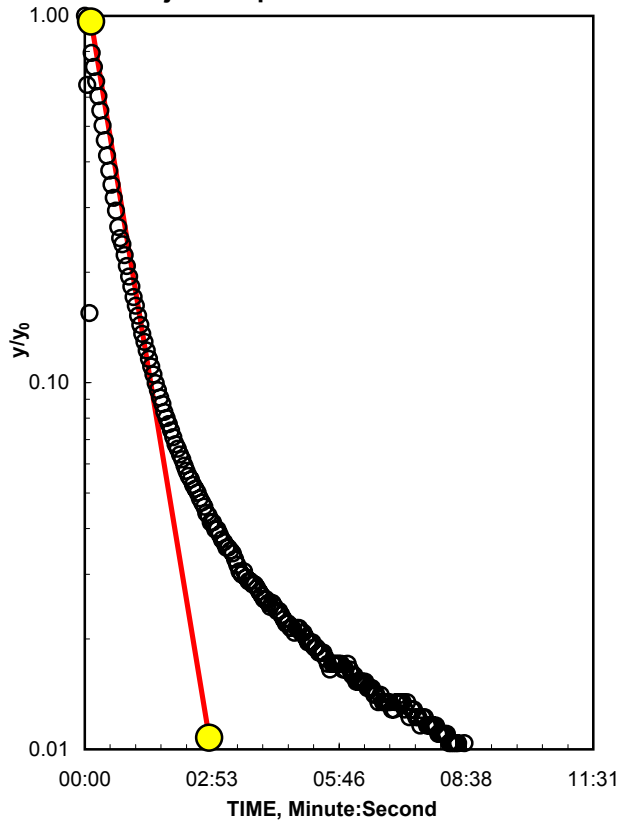
COMPUTED

L_{wetted}	2 Feet
D =	4.83 Feet
H =	2.54 Feet
L/r_w =	5.82
y_0 -DISPLACEMENT =	49.83 cm
y_0 -SLUG =	49.95 cm
From look-up table using L/r_w	
Partial penetrate A =	1.762
B =	0.244
$\ln(Re/r_w)$ =	1.073
Re =	1.00 cm
Slope =	0.012153 \log_{10}/sec
$t_{90\%}$ recovery =	82 sec

Input is consistent.

K = 2.0E-03 cm/Second

Adjust slope of line to estimate K



REMARKS:

Bouwer and Rice analysis of slug test, WRR 1976

Initial test

Entry	Reduced Data	
	Time, Hr:Min:Sec	Water Level
1	8:50:22.0	0.00
2	8:50:34.0	-0.45
3	8:50:46.0	-0.81
4	8:50:58.0	-1.07
5	8:51:10.0	-1.23
6	8:51:22.0	-1.32
7	8:51:34.0	-1.39
8	8:51:46.0	-1.44
9	8:51:58.0	-1.47
10	8:52:10.0	-1.50
11	8:52:22.0	-1.52
12	8:52:34.0	-1.53
13	8:52:46.0	-1.55
14	8:52:58.0	-1.56
15	8:53:10.0	-1.56
16	8:53:22.0	-1.57
17	8:53:34.0	-1.58
18	8:53:46.0	-1.58
19	8:53:58.0	-1.59
20	8:54:10.0	-1.59
21	8:54:22.0	-1.59
22	8:54:34.0	-1.60
23	8:54:46.0	-1.60
24	8:54:58.0	-1.60
25	8:55:10.0	-1.60
26	8:55:22.0	-1.60
27	8:55:34.0	-1.60
28	8:55:46.0	-1.61
29	8:55:58.0	-1.61
30	8:56:10.0	-1.61
31	8:56:22.0	-1.61
32	8:56:34.0	-1.61
33	8:56:46.0	-1.61
34	8:56:58.0	-1.61
35	8:57:10.0	-1.61
36	8:57:22.0	-1.61
37	8:57:34.0	-1.61
38	8:57:46.0	-1.61
39	8:57:58.0	-1.62
40	8:58:10.0	-1.62
41	8:58:22.0	-1.62
42	8:58:34.0	-1.62
43	8:58:46.0	-1.62
44	8:58:58.0	-1.62
45	8:59:10.0	-1.62