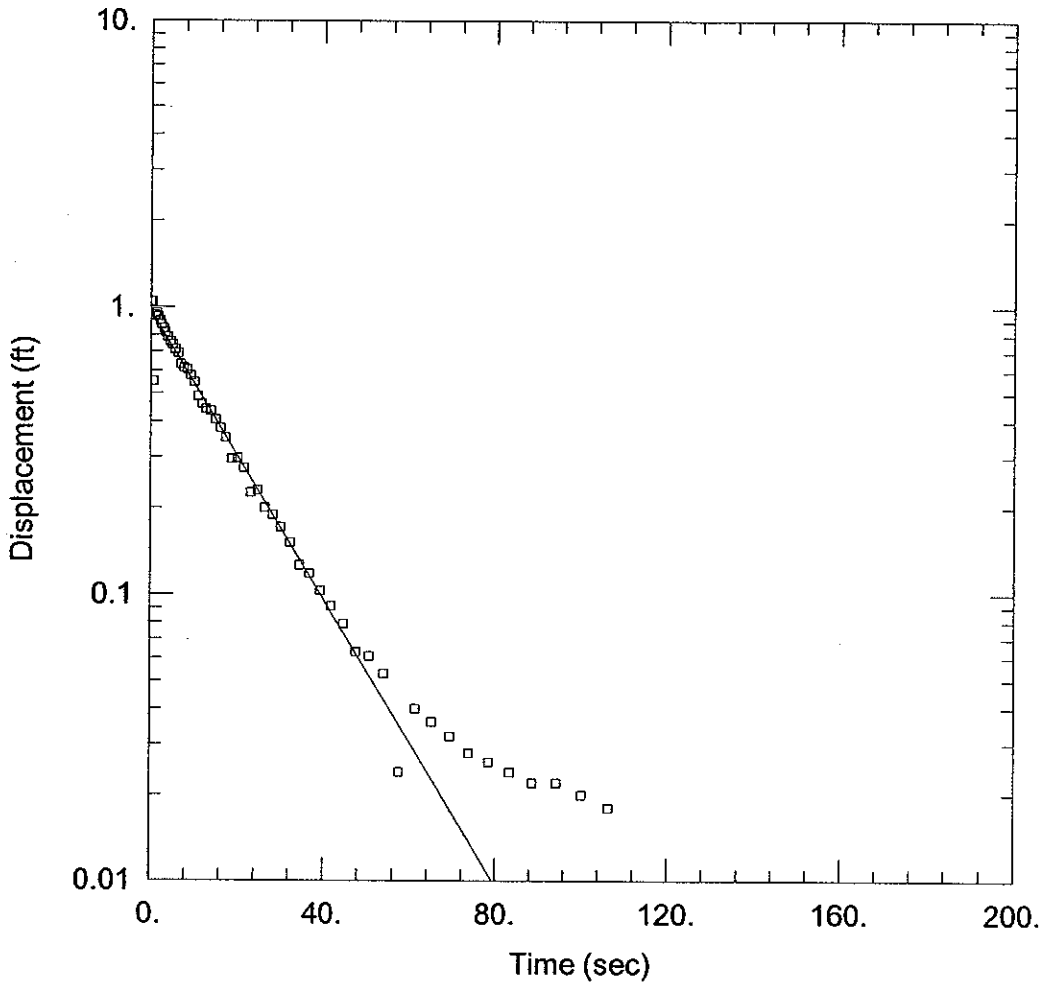
APPENDIX F

SINGLE WELL RESPONSE TEST DATA



MW-16B-RISING

Data Set: I:\Users\RAamot\Slug testing\MW-16B-rising.aqt
Date: 01/12/06 Time: 18:11:36

PROJECT INFORMATION

Company: CRA
Project: 2012
Location: Highway 96
Test Well: MW-16B
Test Date: 10/27/05

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-16B)

Initial Displacement: 1.042 ft
Total Well Penetration Depth: 115. ft
Casing Radius: 0.083 ft
Static Water Column Height: 115. ft
Screen Length: 12. ft
Wellbore Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.00426 ft/min
y0 = 0.9636 ft

Data Set: I:\Users\RAamot\Slug testing\MW-16B-rising.aqt
Title: MW-16B-Rising
Date: 01/12/06
Time: 18:11:43

PROJECT INFORMATION

Company: CRA
Project: 2012
Location: Highway 96
Test Date: 10/27/05
Test Well: MW-16B

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-16B

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1.042 ft
Static Water Column Height: 115. ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 12. ft
Total Well Penetration Depth: 115. ft

No. of Observations: 54

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.4	1.042	20.2	0.298
0.7	0.552	21.7	0.275
1.	0.938	23.2	0.226
1.4	0.952	24.8	0.23
1.7	0.926	26.5	0.2
2.1	0.897	28.3	0.189
2.5	0.868	30.2	0.171
3.	0.842	32.3	0.151
3.4	0.817	34.5	0.126
3.9	0.788	36.8	0.118
4.5	0.758	39.3	0.103
5.	0.741	41.9	0.091
5.6	0.712	44.7	0.079
6.3	0.691	47.6	0.063
6.9	0.632	50.7	0.061
7.6	0.614	54.	0.053
8.4	0.606	57.5	0.024
9.2	0.577	61.2	0.04
10.	0.549	65.1	0.036
10.9	0.489	69.3	0.032
11.8	0.461	73.7	0.028
12.8	0.442	78.4	0.026
13.9	0.436	83.4	0.024
15.	0.406	88.7	0.022
16.2	0.379	94.3	0.022
17.4	0.351	100.2	0.02
18.8	0.296	106.5	0.018

SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice
Shape Factor: 4.292

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.00426	ft/min
y0	0.9636	ft

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	
K	0.00426	0.0001966	ft/min
y0	0.9636	0.02066	ft

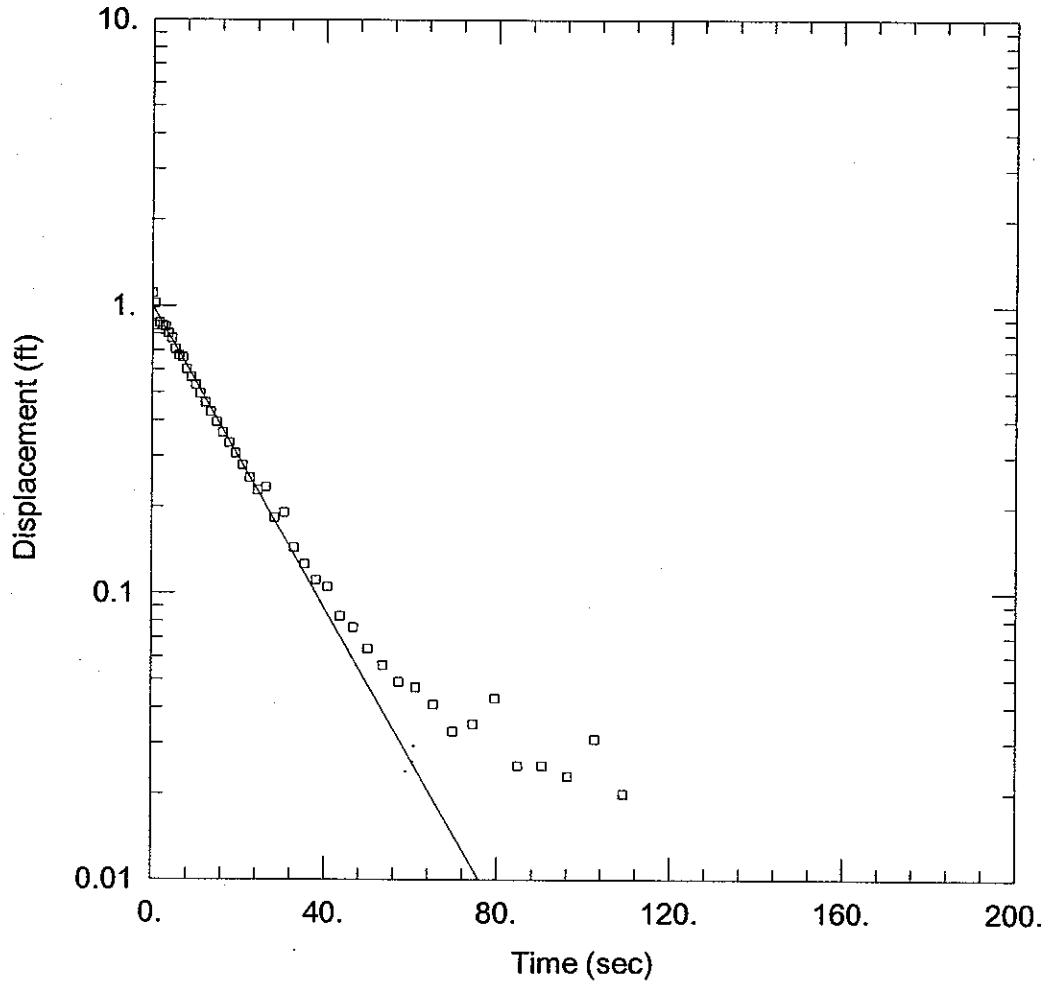
Parameter Correlations

	K	y0
K	1.00	0.68
y0	0.68	1.00

Residual Statistics

for weighted residuals

Sum of Squares . . . . . 0.1701 ft^2
Variance . . . . . 0.003271 ft^2
Std. Deviation . . . . . 0.05719 ft
Mean . . . . . 0.002406 ft
No. of Residuals 54
No. of Estimates 2



MW-16B-FALLING

Data Set: I:\Users\RAamot\Slug testing\MW-16B-falling.aqt
Date: 01/12/06 Time: 18:09:58

PROJECT INFORMATION

Company: CRA
Project: 2012
Location: Highway 96
Test Well: MW-16B
Test Date: 10/27/05

AQUIFER DATA

Saturated Thickness: 115. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-16B)

Initial Displacement: 1.105 ft
Total Well Penetration Depth: 115. ft
Casing Radius: 0.083 ft
Static Water Column Height: 115. ft
Screen Length: 12. ft
Wellbore Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.004484 ft/min
y0 = 1.001 ft

Data Set: I:\Users\RAamot\Slug testing\MW-16B-falling.aqt
Title: MW-16B-Falling
Date: 01/12/06
Time: 18:10:08

PROJECT INFORMATION

Company: CRA
Project: 2012
Location: Highway 96
Test Date: 10/27/05
Test Well: MW-16B

AQUIFER DATA

Saturated Thickness: 115. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-16B

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1.105 ft
Static Water Column Height: 115. ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 12. ft
Total Well Penetration Depth: 115. ft

No. of Observations: 46

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	1.105	24.4	0.228
0.6	1.019	26.3	0.234
1.1	0.855	28.4	0.183
1.7	0.871	30.6	0.191
2.4	0.852	32.9	0.144
3.	0.846	35.4	0.126
3.7	0.803	38.	0.111
4.5	0.772	40.8	0.105
5.3	0.707	43.7	0.083
6.1	0.672	46.8	0.076
7.	0.662	50.1	0.064
7.9	0.602	53.6	0.056
8.9	0.566	57.3	0.049
10.	0.531	61.2	0.047
11.1	0.496	65.4	0.041
12.3	0.461	69.8	0.033
13.5	0.428	74.5	0.035
14.9	0.395	79.5	0.043
16.3	0.363	84.8	0.025
17.8	0.334	90.4	0.025
19.3	0.307	96.3	0.023
20.9	0.279	102.6	0.031
22.6	0.252	109.2	0.02

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
Shape Factor: 4.292

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.004482	ft/min
y0	1.057	ft

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	
K	0.004484	0.0001052	ft/min
y0	1.001	0.01161	ft

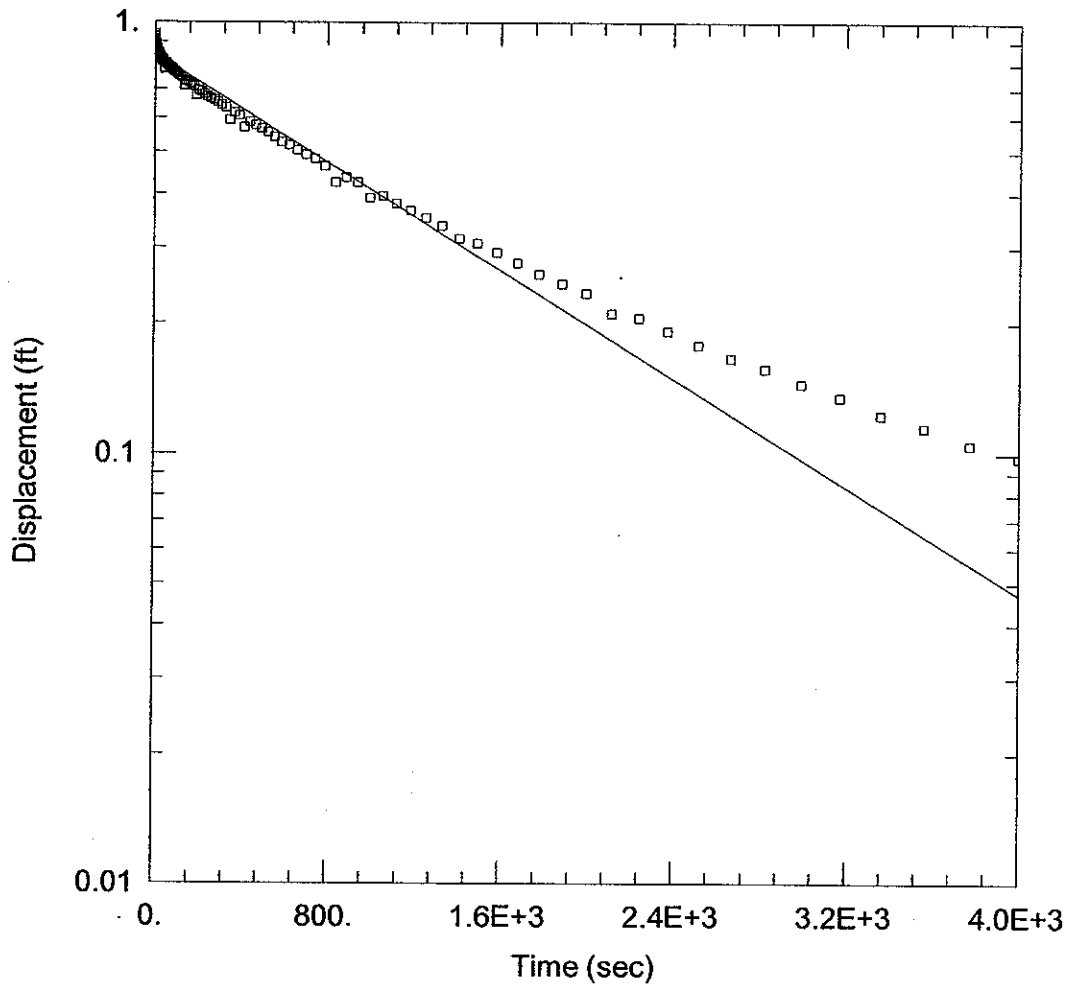
Parameter Correlations

	K	y0
K	1.00	0.67
y0	0.67	1.00

Residual Statistics

for weighted residuals

Sum of Squares . . . . . 0.03398 ft^2
Variance . . . . . 0.0007722 ft^2
Std. Deviation . . . . . 0.02779 ft
Mean . . . . . 0.007179 ft
No. of Residuals 46
No. of Estimates 2



MW-16D-RISING

Data Set: I:\Users\RAamot\Slug testing\MW-16D-rising.aqt
Date: 01/12/06 Time: 18:14:30

PROJECT INFORMATION

Company: CRA
Project: 2012
Location: Highway 96
Test Well: MW-16D
Test Date: 10/28/05

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-16D)

Initial Displacement: 0.938 ft
Total Well Penetration Depth: 36. ft
Casing Radius: 0.083 ft
Static Water Column Height: 36. ft
Screen Length: 14. ft
Wellbore Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 3.215E-5 ft/min
y0 = 0.8427 ft

Data Set: I:\Users\RAamot\Slug testing\MW-16D-rising.aqt
Title: MW-16D-Rising
Date: 01/12/06
Time: 18:14:38

PROJECT INFORMATION

Company: CRA
Project: 2012
Location: Highway 96
Test Date: 10/28/05
Test Well: MW-16D

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-16D

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 0.938 ft
Static Water Column Height: 36. ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 14. ft
Total Well Penetration Depth: 36. ft

No. of Observations: 111

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	0.938	170.1	0.715
0.4	0.925	180.7	0.709
0.9	0.911	191.9	0.676
1.3	0.913	203.8	0.695
1.8	0.905	216.4	0.689
2.4	0.897	229.7	0.681
2.9	0.9	243.8	0.671
3.5	0.894	258.7	0.665
4.2	0.894	274.5	0.66
4.8	0.889	291.3	0.652
5.5	0.884	309.1	0.642
6.3	0.859	327.9	0.634
7.1	0.878	347.8	0.593
7.9	0.874	368.9	0.617
8.8	0.871	391.3	0.607
9.7	0.869	415.	0.57
10.7	0.865	440.1	0.587
11.8	0.86	466.7	0.577
12.9	0.859	494.9	0.566
14.1	0.855	524.8	0.556
15.3	0.851	556.4	0.542
16.7	0.849	589.9	0.527
18.1	0.847	625.4	0.519
19.6	0.843	663.	0.505
21.1	0.841	702.8	0.493
22.7	0.837	745.	0.482
24.4	0.829	789.7	0.464
26.2	0.833	837.1	0.425
28.1	0.829	887.3	0.436
30.2	0.811	940.4	0.425
32.4	0.823	996.7	0.391

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
34.7	0.808	1056.3	0.395
37.2	0.817	1119.5	0.38
39.8	0.813	1186.4	0.366
42.6	0.782	1257.3	0.352
45.5	0.776	1332.4	0.337
48.6	0.805	1411.9	0.315
51.9	0.801	1496.2	0.307
55.4	0.797	1585.5	0.292
59.1	0.795	1680.	0.276
63.	0.79	1780.1	0.26
67.2	0.786	1886.2	0.247
71.6	0.784	1998.6	0.235
76.3	0.78	2117.6	0.211
81.3	0.776	2243.7	0.206
86.6	0.768	2377.3	0.192
92.2	0.766	2518.8	0.178
98.1	0.762	2668.7	0.166
104.4	0.758	2827.5	0.157
111.	0.752	2995.7	0.145
118.	0.748	3173.8	0.135
125.5	0.742	3362.5	0.123
133.4	0.711	3562.4	0.115
141.8	0.73	3774.1	0.105
150.7	0.727	3998.4	0.098
160.1	0.721		

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
Shape Factor: 3.02

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	3.215E-5	ft/min
y0	0.8427	ft

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	
K	3.215E-5	7.344E-7	ft/min
y0	0.8427	0.004666	ft

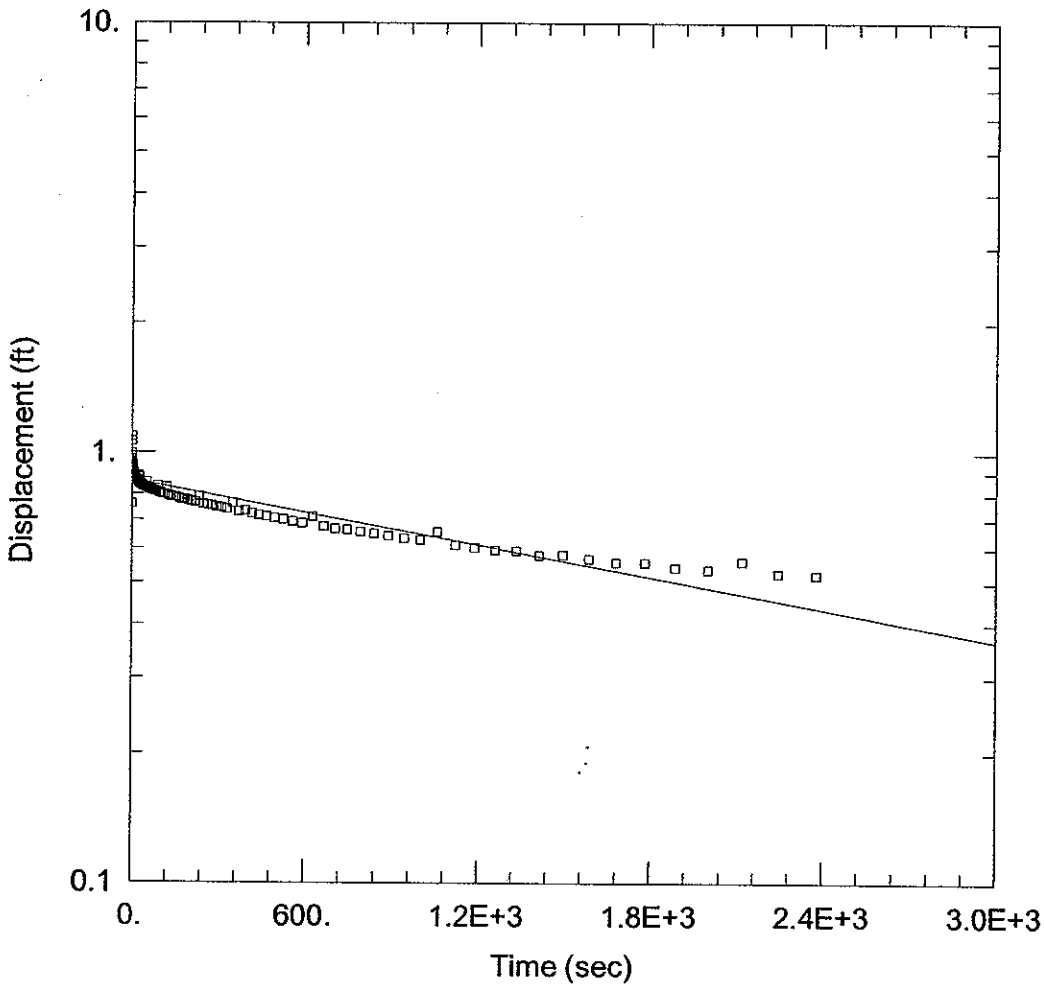
Parameter Correlations

	K	y0
K	0.67	0.39
y0	0.39	1.00

Residual Statistics

for weighted residuals

Sum of Squares . . . . . 0.1297 ft^2
Variance . . . . . 0.00119 ft^2
Std. Deviation . . . . . 0.03449 ft
Mean . . . . . 0.003343 ft
No. of Residuals 111
No. of Estimates 2



MW-16D-FALLING

Data Set: I:\Users\RAamot\Slug testing\MW-16D-falling.aqt
Date: 01/12/06 Time: 18:13:21

PROJECT INFORMATION

Company: CRA
Project: 2012
Location: Highway 96
Test Well: MW-16D
Test Date: 10/28/05

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-16D)

Initial Displacement: 1.088 ft
Total Well Penetration Depth: 36. ft
Casing Radius: 0.083 ft
Static Water Column Height: 36. ft
Screen Length: 14. ft
Wellbore Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 1.279E-5 ft/min
y0 = 0.8635 ft

Data Set: I:\Users\RAamot\Slug testing\MW-16D-falling.aqt
Title: MW-16D-Falling
Date: 01/12/06
Time: 18:13:29

PROJECT INFORMATION

Company: CRA
Project: 2012
Location: Highway 96
Test Date: 10/28/05
Test Well: MW-16D

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-16D

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1.088 ft
Static Water Column Height: 36. ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 14. ft
Total Well Penetration Depth: 36. ft

No. of Observations: 110

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	1.061	100.7	0.804
0.3	0.992	107.	0.8
0.6	0.761	113.6	0.8
0.9	0.941	120.6	0.831
1.2	0.962	128.1	0.794
1.5	0.953	136.	0.79
1.9	0.947	144.4	0.788
2.2	0.945	153.3	0.788
2.6	0.943	162.7	0.783
3.	0.939	172.7	0.779
3.5	0.935	183.3	0.779
3.9	0.931	194.5	0.773
4.4	0.929	206.4	0.771
5.	0.925	219.	0.767
5.5	0.918	232.3	0.791
6.1	0.906	246.4	0.759
6.8	0.902	261.3	0.757
7.4	0.898	277.1	0.754
8.1	0.893	293.9	0.748
8.9	0.889	311.7	0.746
9.7	0.887	330.5	0.74
10.5	0.881	350.4	0.765
11.4	0.881	371.5	0.73
12.3	0.875	393.9	0.734
13.3	0.873	417.6	0.722
14.4	0.868	442.7	0.716
15.5	0.866	469.3	0.711
16.7	0.866	497.5	0.705
17.9	0.862	527.4	0.701
19.3	0.858	559.	0.693
20.7	0.856	592.5	0.687

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
22.2	0.862	628.	0.712
23.7	0.884	665.6	0.675
25.3	0.848	705.4	0.667
27.	0.874	747.6	0.664
28.8	0.846	792.3	0.656
30.7	0.844	839.7	0.65
32.8	0.842	889.9	0.642
35.	0.839	943.	0.634
37.3	0.837	999.3	0.628
39.8	0.835	1058.9	0.656
42.4	0.833	1122.1	0.611
45.2	0.833	1189.	0.603
48.1	0.829	1259.9	0.595
51.2	0.853	1335.	0.593
54.5	0.829	1414.5	0.579
58.	0.823	1498.8	0.581
61.7	0.823	1588.1	0.568
65.6	0.821	1682.6	0.558
69.8	0.817	1782.7	0.558
74.2	0.815	1888.8	0.543
78.9	0.814	2001.2	0.536
83.9	0.812	2120.2	0.56
89.2	0.835	2246.3	0.525
94.8	0.806	2379.9	0.521

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
Shape Factor: 3.02

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	1.278E-5	ft/min
y0	0.8636	ft

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	
K	1.279E-5	6.124E-7	ft/min
y0	0.8635	0.00571	ft

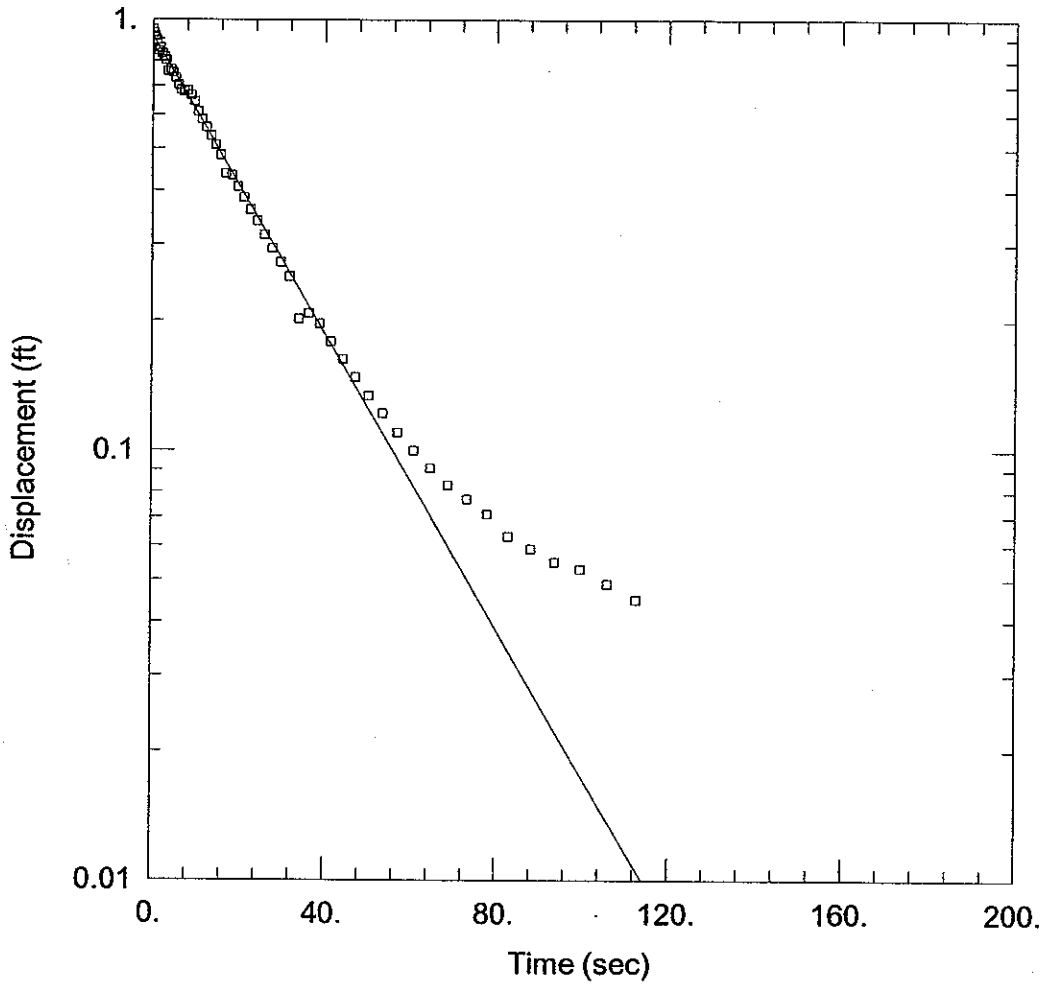
Parameter Correlations

	K	y0
K	0.47	0.34
y0	0.34	1.00

Residual Statistics

for weighted residuals

Sum of Squares . . . . . 0.243 ft^2
Variance . . . . . 0.00225 ft^2
Std. Deviation . . . . . 0.04744 ft
Mean . . . . . 0.0003798 ft
No. of Residuals 110
No. of Estimates 2



MW-17A-RISING

Data Set: I:\Users\RAamot\Slug testing\MW-17A-rising.aqt
Date: 01/12/06 Time: 18:05:44

PROJECT INFORMATION

Company: CRA
Project: 2012
Location: Highway 96
Test Well: MW-17A
Test Date: 10/27/05

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-17A)

Initial Displacement: 0.948 ft
Total Well Penetration Depth: 83.5 ft
Casing Radius: 0.083 ft
Static Water Column Height: 83.5 ft
Screen Length: 13. ft
Wellbore Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.002166 ft/min
y0 = 0.9117 ft

Data Set: I:\Users\RAamot\Slug testing\MW-17A-rising.aqt
Title: MW-17A-Rising
Date: 01/12/06
Time: 18:05:50

PROJECT INFORMATION

Company: CRA
Project: 2012
Location: Highway 96
Test Date: 10/27/05
Test Well: MW-17A

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-17A

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 0.948 ft
Static Water Column Height: 83.5 ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 13. ft
Total Well Penetration Depth: 83.5 ft

No. of Observations: 55

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	0.948	21.3	0.385
0.3	0.93	22.8	0.361
0.6	0.913	24.4	0.34
1.	0.895	26.1	0.316
1.3	0.846	27.9	0.294
1.7	0.858	29.8	0.273
2.1	0.833	31.9	0.253
2.6	0.817	34.1	0.202
3.	0.805	36.4	0.208
3.5	0.756	38.9	0.197
4.1	0.764	41.5	0.179
4.6	0.752	44.3	0.163
5.2	0.73	47.2	0.148
5.9	0.703	50.3	0.134
6.5	0.685	53.6	0.122
7.2	0.679	57.1	0.11
8.	0.683	60.8	0.1
8.8	0.667	64.7	0.091
9.6	0.644	68.9	0.083
10.5	0.61	73.3	0.077
11.4	0.585	78.	0.071
12.4	0.561	83.	0.063
13.5	0.536	88.3	0.059
14.6	0.51	93.9	0.055
15.8	0.483	99.8	0.053
17.	0.438	106.1	0.049
18.4	0.434	112.7	0.045
19.8	0.408		

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
Shape Factor: 3.446

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.002159	ft/min
y0	0.9253	ft

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	
K	0.002166	3.323E-5	ft/min
y0	0.9117	0.005913	ft

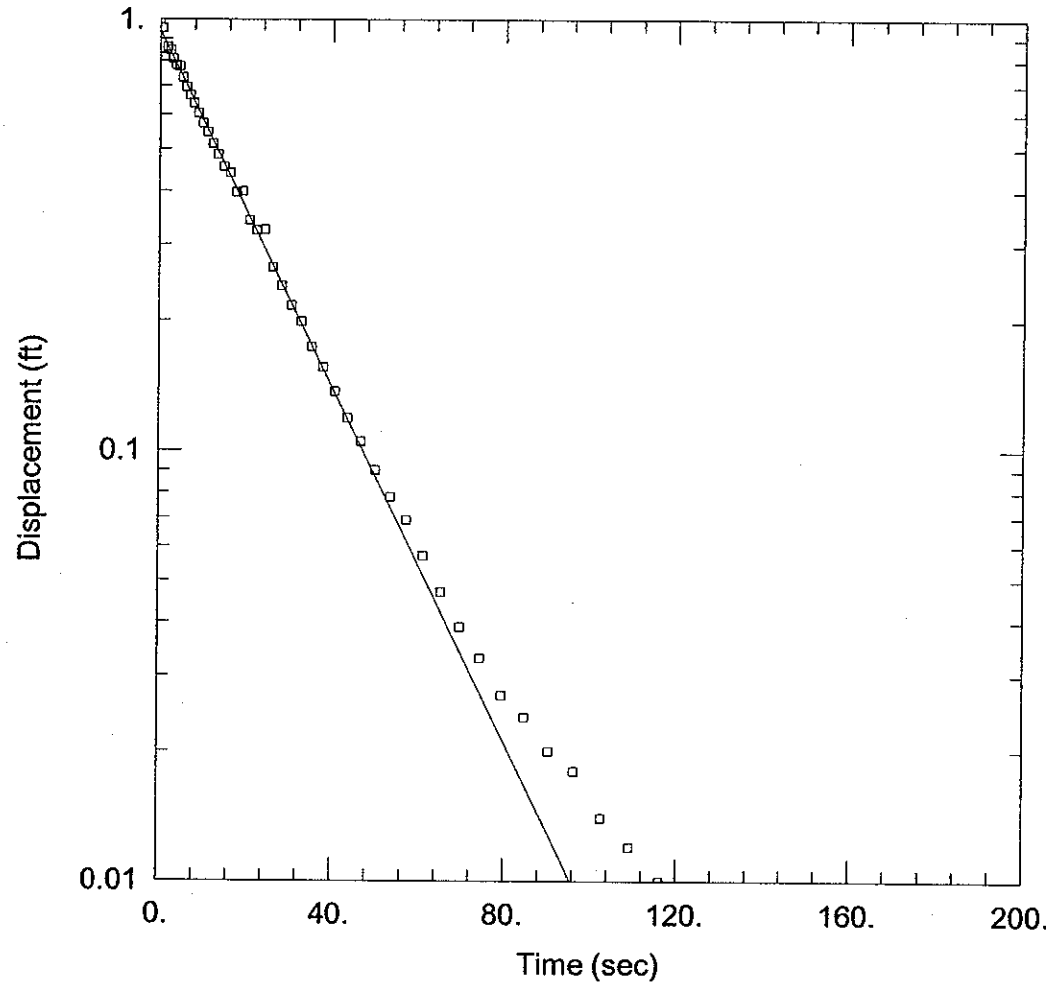
Parameter Correlations

	K	y0
K	1.00	0.64
y0	0.64	1.00

Residual Statistics

for weighted residuals

Sum of Squares . . . . . 0.02006 ft^2
Variance . . . . . 0.0003784 ft^2
Std. Deviation . . . . . 0.01945 ft
Mean . . . . . 0.004722 ft
No. of Residuals 55
No. of Estimates 2



MW-17A-FALLING

Data Set: I:\Users\RAamot\Slug testing\MW-17A-falling.aqt
Date: 01/12/06 Time: 18:07:51

PROJECT INFORMATION

Company: CRA
Project: 2012
Location: Highway 96
Test Well: MW-17A
Test Date: 10/27/05

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-17A)

Initial Displacement: 0.997 ft
Total Well Penetration Depth: 83.5 ft
Casing Radius: 0.083 ft
Static Water Column Height: 83.5 ft
Screen Length: 13. ft
Wellbore Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.002601 ft/min
y0 = 0.9391 ft

Data Set: I:\Users\RAamot\Slug testing\MW-17A-falling.aqt
Title: MW-17A-Falling
Date: 01/12/06
Time: 18:08:01

PROJECT INFORMATION

Company: CRA
Project: 2012
Location: Highway 96
Test Date: 10/27/05
Test Well: MW-17A

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-17A

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 0.997 ft
Static Water Column Height: 83.5 ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 13. ft
Total Well Penetration Depth: 83.5 ft

No. of Observations: 47

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	0.997	26.3	0.266
0.6	0.953	28.4	0.241
1.1	0.815	30.6	0.217
1.7	0.862	32.9	0.199
2.4	0.847	35.4	0.174
3.	0.809	38.	0.156
3.7	0.782	40.8	0.137
4.5	0.776	43.7	0.119
5.3	0.731	46.8	0.105
6.1	0.694	50.1	0.09
7.	0.665	53.6	0.078
7.9	0.637	57.3	0.069
8.9	0.604	61.2	0.057
10.	0.573	65.4	0.047
11.1	0.546	69.8	0.039
12.3	0.514	74.5	0.033
13.5	0.485	79.5	0.027
14.9	0.454	84.8	0.024
16.3	0.44	90.4	0.02
17.8	0.397	96.3	0.018
19.3	0.399	102.6	0.014
20.9	0.342	109.2	0.012
22.6	0.324	116.2	0.01
24.4	0.325		

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
Shape Factor: 3.446

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.0026	ft/min
y0	0.98	ft

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	
K	0.002601	3.974E-5	ft/min
y0	0.9391	0.006839	ft

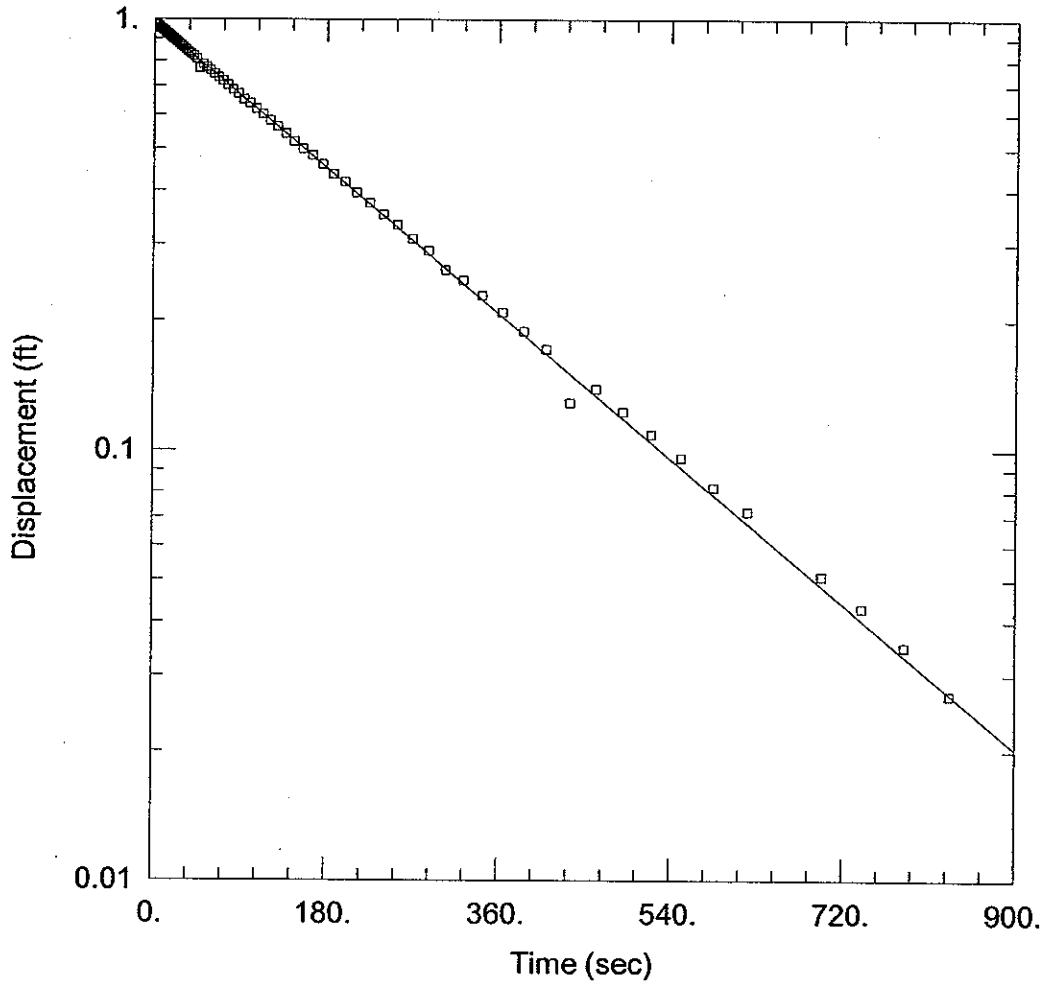
Parameter Correlations

	K	y0
K	1.00	0.66
y0	0.66	1.00

Residual Statistics

for weighted residuals

Sum of Squares . . . . . 0.01425 ft^2
Variance . . . . . 0.0003166 ft^2
Std. Deviation . . . . . 0.01779 ft
Mean . . . . . 0.001727 ft
No. of Residuals 47
No. of Estimates 2



MW-17B-RISING

Data Set: I:\Users\RAamot\Slug testing\MW-17B-rising.aqt
Date: 01/12/06 Time: 18:03:14

PROJECT INFORMATION

Company: CRA
Project: 2012
Location: Highway 96
Test Well: MW-17B
Test Date: 10/27/05

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-17B)

Initial Displacement: 1.004 ft
Total Well Penetration Depth: 13. ft
Casing Radius: 0.083 ft
Static Water Column Height: 162. ft
Screen Length: 13. ft
Wellbore Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.0001733 ft/min
y0 = 0.9797 ft

Data Set: I:\Users\RAamot\Slug testing\MW-17B-rising.aqt
Title: MW-17B-Rising
Date: 01/12/06
Time: 18:03:21

PROJECT INFORMATION

Company: CRA
Project: 2012
Location: Highway 96
Test Date: 10/27/05
Test Well: MW-17B

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-17B

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1.004 ft
Static Water Column Height: 162. ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 13. ft
Total Well Penetration Depth: 13. ft

No. of Observations: 74

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	0.99	87.4	0.67
0.7	0.984	93.3	0.65
1.5	0.982	99.6	0.637
2.3	0.976	106.2	0.619
3.1	0.972	113.2	0.601
4.	0.966	120.7	0.581
4.9	0.964	128.6	0.562
5.9	0.954	137.	0.542
7.	0.949	145.9	0.519
8.1	0.95	155.3	0.499
9.3	0.943	165.3	0.482
10.5	0.939	175.9	0.46
11.9	0.931	187.1	0.436
13.3	0.925	199.	0.419
14.8	0.921	211.6	0.395
16.3	0.913	224.9	0.374
17.9	0.907	239.	0.352
19.6	0.9	253.9	0.333
21.4	0.893	269.7	0.309
23.3	0.885	286.5	0.29
25.4	0.876	304.3	0.262
27.6	0.868	323.1	0.248
29.9	0.86	343.	0.229
32.4	0.85	364.1	0.209
35.	0.84	386.5	0.189
37.8	0.831	410.2	0.172
40.7	0.821	435.3	0.129
43.8	0.809	461.9	0.139
47.1	0.768	490.1	0.123
50.6	0.786	520.	0.109
54.3	0.774	551.6	0.096

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
58.2	0.76	585.1	0.082
62.4	0.746	620.6	0.072
66.8	0.732	698.	0.051
71.5	0.719	740.2	0.043
76.5	0.703	784.9	0.035
81.8	0.685	832.3	0.027

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
Shape Factor: 2.529

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.0001733	ft/min
y0	0.9835	ft

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	
K	0.0001733	6.247E-7	ft/min
y0	0.9797	0.001172	ft

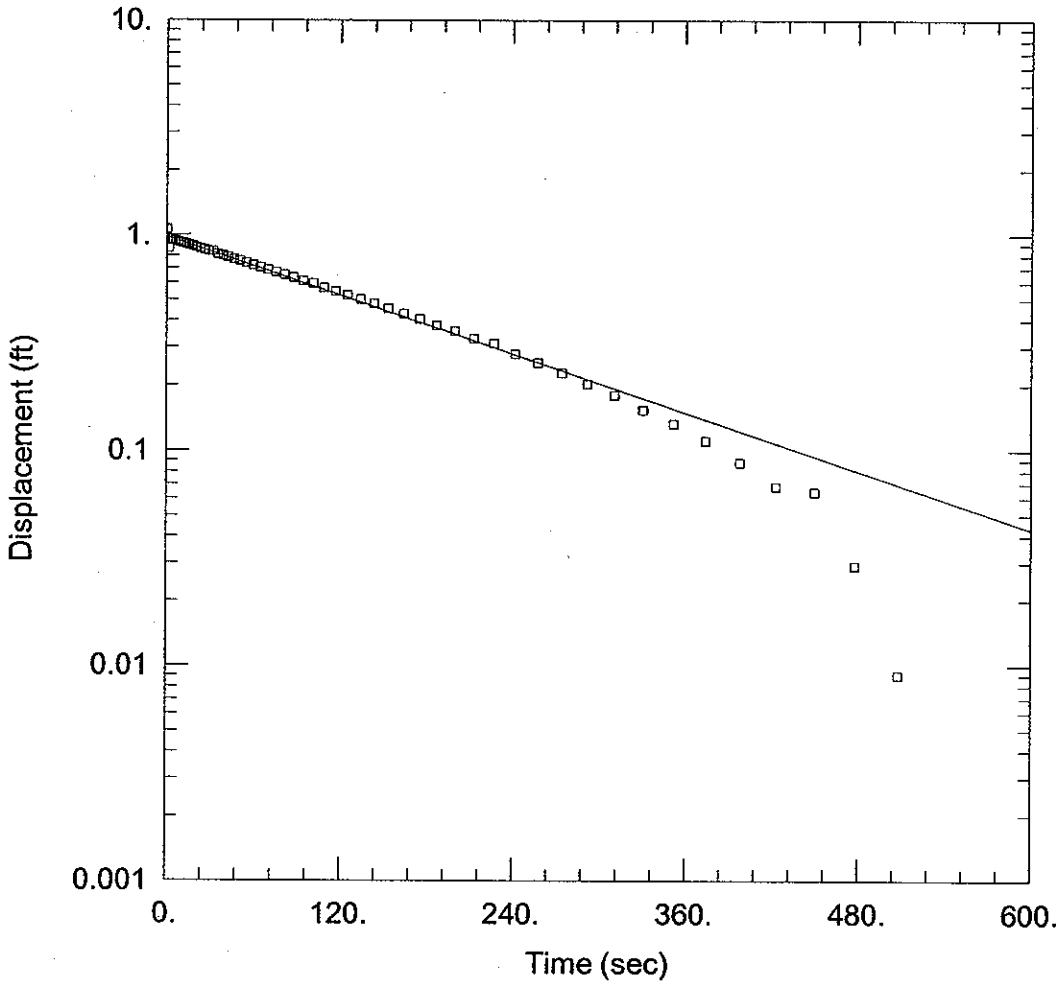
Parameter Correlations

	K	y0
K	0.49	0.41
y0	0.41	1.00

Residual Statistics

for weighted residuals

Sum of Squares . . . . . 0.002287 ft^2
Variance . . . . . 3.176E-5 ft^2
Std. Deviation . . . . . 0.005636 ft
Mean . . . . . 0.0003386 ft
No. of Residuals 74
No. of Estimates 2



MW-17B-FALLING

Data Set: I:\Users\RAamot\Slug testing\MW-17B-falling.aqt
Date: 01/12/06 Time: 18:20:25

PROJECT INFORMATION

Company: CRA
Project: 2012
Location: Highway 96
Test Well: MW-17B
Test Date: 10/26/05

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-17B)

Initial Displacement: 1.06 ft
Total Well Penetration Depth: 162. ft
Casing Radius: 0.083 ft
Static Water Column Height: 162. ft
Screen Length: 13. ft
Wellbore Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.0003728 ft/min
y0 = 0.9775 ft

Data Set: I:\Users\RAamot\Slug testing\MW-17B-falling.aqt
Title: MW-17-Falling
Date: 01/12/06
Time: 18:02:31

PROJECT INFORMATION

Company: CRA
Project: 2012
Location: Highway 96
Test Date: 10/26/05
Test Well: MW-17B

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-17B

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1.06 ft
Static Water Column Height: 162. ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 13. ft
Total Well Penetration Depth: 162. ft

No. of Observations: 55

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	1.056	94.3	0.61
1.4	0.864	101.3	0.595
2.9	0.953	108.8	0.567
4.4	0.947	116.7	0.546
6.	0.939	125.1	0.524
7.7	0.929	134.	0.501
9.5	0.921	143.4	0.479
11.4	0.913	153.4	0.454
13.5	0.904	164.	0.43
15.7	0.894	175.2	0.405
18.	0.886	187.1	0.379
20.5	0.874	199.7	0.356
23.1	0.862	213.	0.33
25.9	0.853	227.1	0.313
28.8	0.839	242.	0.28
31.9	0.839	257.8	0.254
35.2	0.814	274.6	0.229
38.7	0.8	292.4	0.203
42.4	0.786	311.2	0.18
46.3	0.77	331.1	0.154
50.5	0.757	352.2	0.133
54.9	0.739	374.6	0.111
59.6	0.722	398.3	0.088
64.6	0.706	423.4	0.068
69.9	0.688	450.	0.064
75.5	0.669	478.2	0.029
81.4	0.651	508.1	0.009
87.7	0.632		

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
Shape Factor: 4.504

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.0003728	ft/min
y0	0.9816	ft

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	
K	0.0003728	6.612E-6	ft/min
y0	0.9775	0.006573	ft

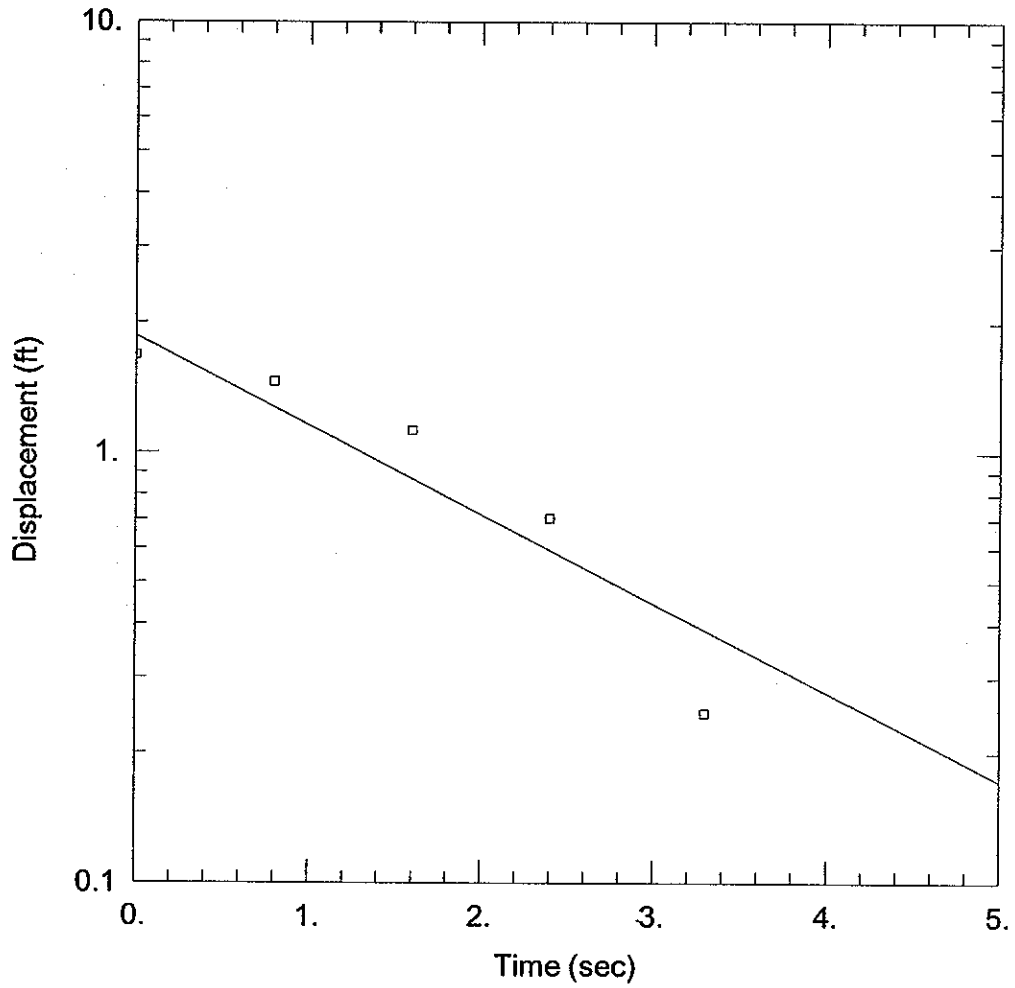
Parameter Correlations

	K	y0
K	1.00	0.63
y0	0.63	1.00

Residual Statistics

for weighted residuals

Sum of Squares . . . . . 0.03342 ft^2
Variance . . . . . 0.0006307 ft^2
Std. Deviation . . . . . 0.02511 ft
Mean . . . . . -0.002992 ft
No. of Residuals 55
No. of Estimates 2



MW-17L-RISING

Data Set: I:\Users\RAamot\Slug testing\MW-17L-rising.aqt
Date: 01/12/06 Time: 17:37:52

PROJECT INFORMATION

Company: CRA
Project: 2012
Location: Highway 96
Test Well: MW-17L
Test Date: 10/27/05

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-17L)

Initial Displacement: 1.679 ft
Total Well Penetration Depth: 258. ft
Casing Radius: 0.167 ft
Static Water Column Height: 258. ft
Screen Length: 40. ft
Wellbore Radius: 0.146 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.05619 ft/min
y0 = 1.863 ft

Data Set: I:\Users\RAamot\Slug testing\MW-17L-rising.aqt
Title: MW-17L-Rising
Date: 01/12/06
Time: 17:38:00

PROJECT INFORMATION

Company: CRA
Project: 2012
Location: Highway 96
Test Date: 10/27/05
Test Well: MW-17L

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-17L

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1.679 ft
Static Water Column Height: 258. ft
Casing Radius: 0.167 ft
Wellbore Radius: 0.146 ft
Well Skin Radius: 0.146 ft
Screen Length: 40. ft
Total Well Penetration Depth: 258. ft

No. of Observations: 6

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	1.679	2.4	0.706
0.8	1.458	3.3	0.248
1.6	1.125	4.2	-0.243

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
Shape Factor: 5.645

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.04624	ft/min
y0	1.802	ft

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	
K	0.05619	0.01681	ft/min
y0	1.863	0.2903	ft

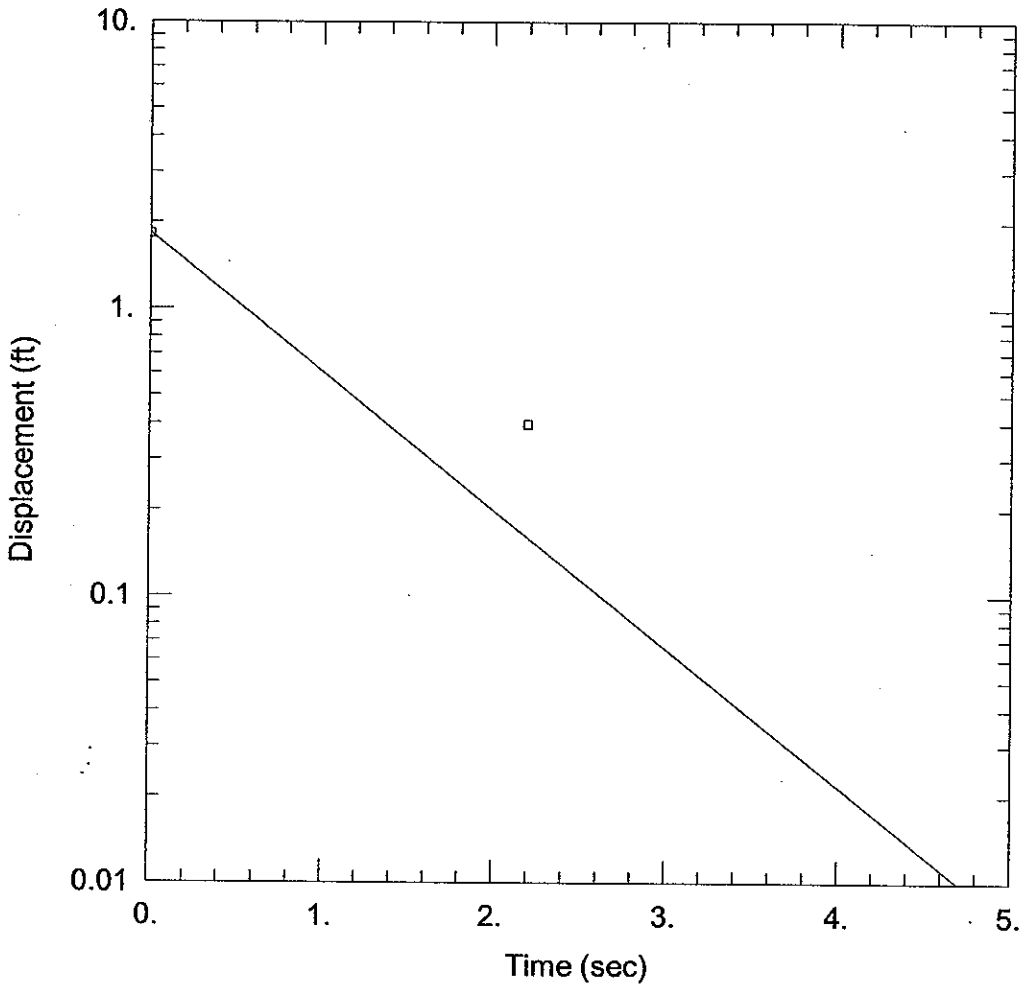
Parameter Correlations

	K	y0
K	1.00	0.58
y0	0.58	1.00

Residual Statistics

for weighted residuals

Sum of Squares . . . . . 0.4104 ft^2
Variance . . . . . 0.1026 ft^2
Std. Deviation . . . . . 0.3203 ft
Mean . . . . . -0.04481 ft
No. of Residuals 6
No. of Estimates 2



MW-17L-FALLING

Data Set: I:\Users\RAamot\Slug testing\MW-17L-falling.aqt
Date: 01/12/06 Time: 17:44:10

PROJECT INFORMATION

Company: CRA
Project: 2012
Location: Highway 96
Test Well: MW-17L
Test Date: 10/27/05

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-17L)

Initial Displacement: 1.824 ft
Total Well Penetration Depth: 258. ft
Casing Radius: 0.167 ft
Static Water Column Height: 258. ft
Screen Length: 40. ft
Wellbore Radius: 0.146 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.1309 ft/min
y0 = 1.835 ft

Data Set: I:\Users\RAamot\Slug testing\MW-17L-falling.aqt
Title: MW-17L-Falling
Date: 01/12/06
Time: 17:44:24

PROJECT INFORMATION

Company: CRA
Project: 2012
Location: Highway 96
Test Date: 10/27/05
Test Well: MW-17L

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-17L

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1.824 ft
Static Water Column Height: 258. ft
Casing Radius: 0.167 ft
Wellbore Radius: 0.146 ft
Well Skin Radius: 0.146 ft
Screen Length: 40. ft
Total Well Penetration Depth: 258. ft

No. of Observations: 3

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	1.824	4.5	-1.471
2.2	0.397		

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
Shape Factor: 5.645

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.007183	ft/min
y0	1.223	ft

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	
K	0.1309	0.5055	ft/min
y0	1.835	1.502	ft

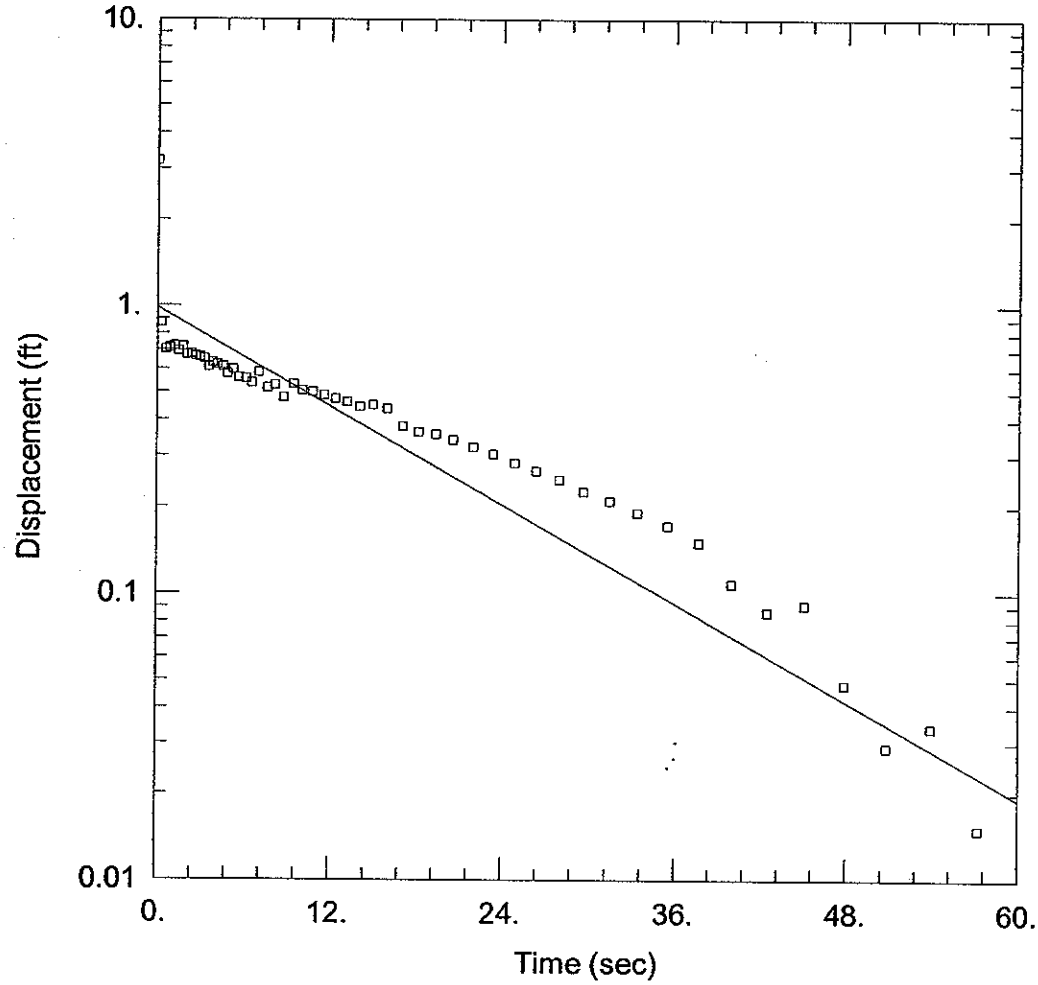
Parameter Correlations

	K	y0
K	1.00	0.09
y0	0.09	1.00

Residual Statistics

for weighted residuals

Sum of Squares . . . . . 2.257 ft^2
Variance . . . . . 2.257 ft^2
Std. Deviation . . . . . 1.502 ft
Mean . . . . . -0.4191 ft
No. of Residuals 3
No. of Estimates 2



MW-19B-RISING

Data Set: I:\Users\RAamot\Slug testing\MW-19B-rising.aqt
Date: 01/12/06 Time: 18:45:27

PROJECT INFORMATION

Company: CRA
Project: 2012
Location: Highway 96
Test Well: MW-19B
Test Date: 1/10/06

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-19B)

Initial Displacement: 3.196 ft
Total Well Penetration Depth: 167. ft
Casing Radius: 0.083 ft
Static Water Column Height: 167. ft
Screen Length: 13. ft
Wellbore Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.004721 ft/min
y0 = 0.9843 ft

Data Set: I:\Users\RAamot\Slug testing\MW-19B-rising.aqt
Title: MW-19B-rising
Date: 01/12/06
Time: 18:45:35

PROJECT INFORMATION

Company: CRA
Project: 2012
Location: Highway 96
Test Date: 1/10/06
Test Well: MW-19B

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-19B

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 3.196 ft
Static Water Column Height: 167. ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 13. ft
Total Well Penetration Depth: 167. ft

No. of Observations: 55

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	3.196	11.6	0.488
0.3	0.873	12.4	0.474
0.6	0.704	13.2	0.462
0.9	0.712	14.1	0.445
1.2	0.723	15.	0.452
1.5	0.695	16.	0.438
1.8	0.719	17.1	0.381
2.1	0.676	18.2	0.364
2.4	0.679	19.4	0.357
2.7	0.667	20.6	0.341
3.	0.662	22.	0.322
3.3	0.653	23.4	0.305
3.6	0.612	24.9	0.284
3.9	0.634	26.4	0.267
4.2	0.624	28.	0.248
4.6	0.612	29.7	0.226
4.9	0.581	31.5	0.21
5.3	0.6	33.4	0.191
5.7	0.562	35.5	0.172
6.2	0.558	37.7	0.15
6.6	0.539	40.	0.108
7.1	0.586	42.5	0.086
7.7	0.518	45.1	0.091
8.2	0.529	47.9	0.048
8.8	0.479	50.8	0.029
9.5	0.533	53.9	0.034
10.1	0.507	57.2	0.015
10.8	0.502		

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
Shape Factor: 4.52

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.003457	ft/min
y0	0.6957	ft

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	
K	0.004721	0.001115	ft/min
y0	0.9843	0.1029	ft

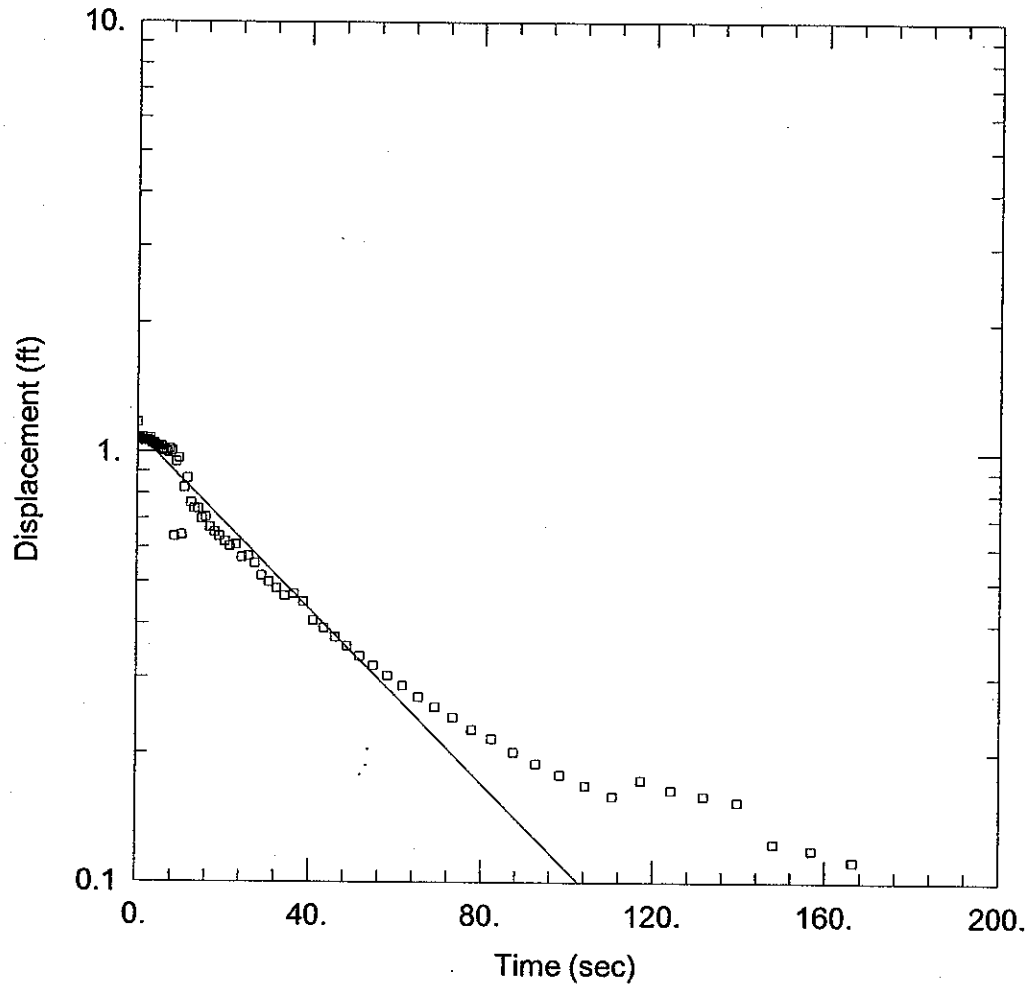
Parameter Correlations

	K	y0
K	1.00	0.68
y0	0.68	1.00

Residual Statistics

for weighted residuals

Sum of Squares . . . . . 5.497 ft^2
Variance . . . . . 0.1037 ft^2
Std. Deviation . . . . . 0.3221 ft
Mean . . . . . 0.01214 ft
No. of Residuals 55
No. of Estimates 2



MW-19B-FALLING

Data Set: I:\Users\RAamot\Slug testing\MW-19B-falling.aqt
Date: 01/12/06 Time: 18:42:55

PROJECT INFORMATION

Company: CRA
Location: Highway 96
Test Well: MW-19B
Test Date: 1/10/06

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-19B)

Initial Displacement: 1.171 ft
Total Well Penetration Depth: 167. ft
Casing Radius: 0.083 ft
Static Water Column Height: 167. ft
Screen Length: 13. ft
Wellbore Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
K = 0.00168 ft/min
Solution Method: Bouwer-Rice
y0 = 1.103 ft

Data Set: I:\Users\RAamot\Slug testing\MW-19B-falling.aqt
Title: MW-19B-falling
Date: 01/12/06
Time: 18:43:01

PROJECT INFORMATION

Company: CRA
Location: Highway 96
Test Date: 1/10/06
Test Well: MW-19B

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-19B

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1.171 ft
Static Water Column Height: 167. ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 13. ft
Total Well Penetration Depth: 167. ft

No. of Observations: 76

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	1.171	19.1	0.637
0.3	1.073	20.3	0.62
0.6	1.08	21.5	0.604
0.9	1.066	22.9	0.609
1.2	1.08	24.3	0.569
1.5	1.059	25.8	0.573
1.8	1.066	27.3	0.552
2.1	1.061	28.9	0.516
2.4	1.066	30.6	0.5
2.7	1.061	32.4	0.483
3.	1.075	34.3	0.464
3.3	1.046	36.4	0.469
3.6	1.049	38.6	0.45
3.9	1.051	40.9	0.407
4.2	1.037	43.4	0.391
4.5	1.032	46.	0.372
4.8	1.03	48.8	0.355
5.1	1.032	51.7	0.336
5.5	1.03	54.8	0.32
5.8	1.006	58.1	0.303
6.2	1.011	61.6	0.287
6.6	1.006	65.3	0.27
7.1	0.997	69.2	0.256
7.5	1.016	73.4	0.242
8.	1.006	77.8	0.227
8.6	0.636	82.5	0.216
9.1	0.949	87.5	0.201
9.7	0.968	92.8	0.189
10.4	0.641	98.4	0.178
11.	0.827	104.3	0.168
11.7	0.869	110.6	0.159
12.5	0.762	117.2	0.173

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
13.3	0.739	124.2	0.164
14.1	0.737	131.7	0.159
15.	0.699	139.6	0.154
15.9	0.706	148.	0.123
16.9	0.668	156.9	0.119
18.	0.651	166.3	0.112

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
Shape Factor: 4.52

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.001659	ft/min
y0	1.1	ft

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	
K	0.00168	6.603E-5	ft/min
y0	1.103	0.01534	ft

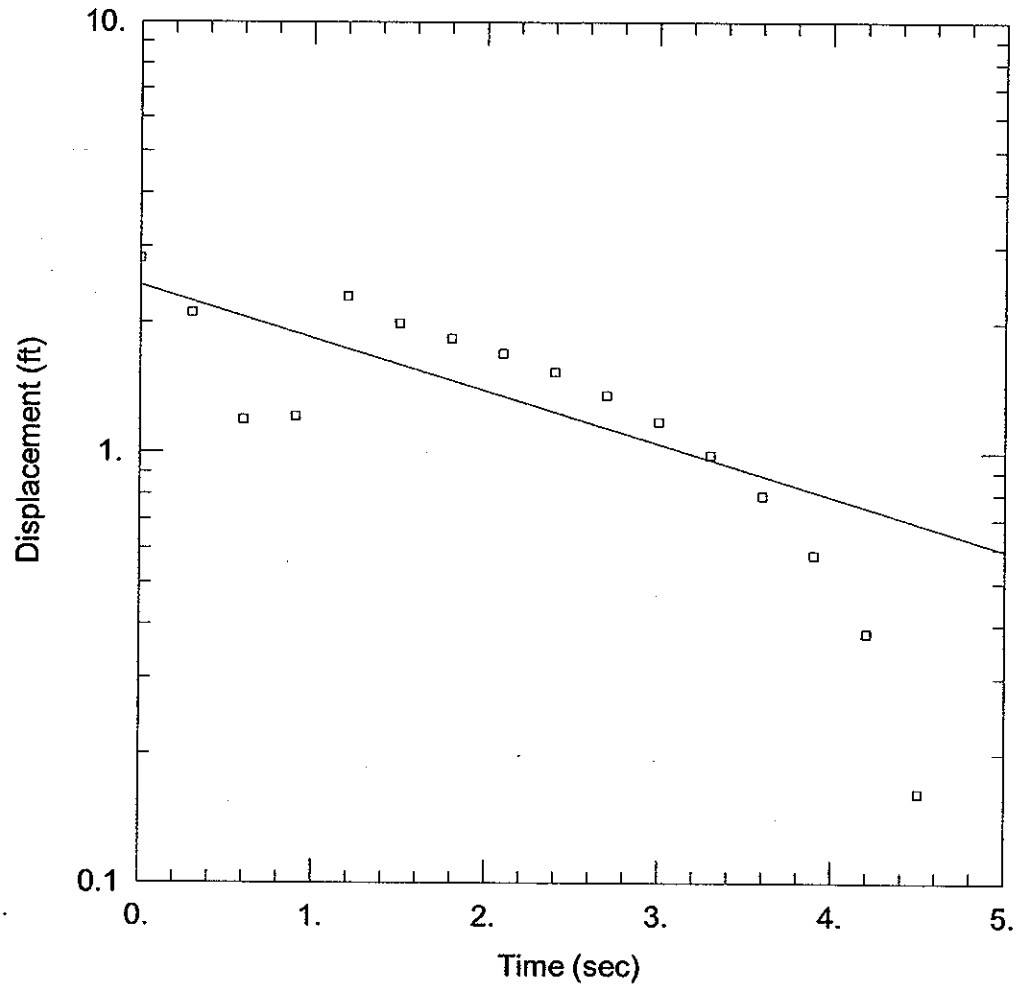
Parameter Correlations

	K	y0
K	1.00	0.63
y0	0.63	1.00

Residual Statistics

for weighted residuals

Sum of Squares . . . . . 0.3473 ft^2
Variance . . . . . 0.004694 ft^2
Std. Deviation . . . . . 0.06851 ft
Mean . . . . . 0.01122 ft
No. of Residuals 76
No. of Estimates 2



MW-19L-RISING

Data Set: I:\Users\RAamot\Slug testing\MW-19L-rising.aqt
Date: 01/12/06 Time: 17:18:00

PROJECT INFORMATION

Company: CRA
Project: 2012
Location: Highway 96
Test Well: MW-19L
Test Date: 1/10/06

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-19L)

Initial Displacement: 2.821 ft
Total Well Penetration Depth: 230. ft
Casing Radius: 0.167 ft
Static Water Column Height: 230. ft
Screen Length: 12. ft
Wellbore Radius: 0.146 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.1012 ft/min
y0 = 2.448 ft

Data Set: I:\Users\RAamot\Slug testing\MW-19L-rising.aqt
Title: MW-19L-rising
Date: 01/12/06
Time: 17:18:09

PROJECT INFORMATION

Company: CRA
Project: 2012
Location: Highway 96
Test Date: 1/10/06
Test Well: MW-19L

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-19L

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 2.821 ft
Static Water Column Height: 230. ft
Casing Radius: 0.167 ft
Wellbore Radius: 0.146 ft
Well Skin Radius: 0.146 ft
Screen Length: 12. ft
Total Well Penetration Depth: 230. ft

No. of Observations: 16

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	2.821	2.4	1.538
0.3	2.113	2.7	1.357
0.6	1.191	3.	1.177
0.9	1.212	3.3	0.985
1.2	2.304	3.6	0.793
1.5	1.993	3.9	0.579
1.8	1.841	4.2	0.382
2.1	1.697	4.5	0.162

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
Shape Factor: 5.127

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.1012	ft/min
y0	2.448	ft

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	
K	0.1012	0.0227	ft/min
y0	2.448	0.2685	ft

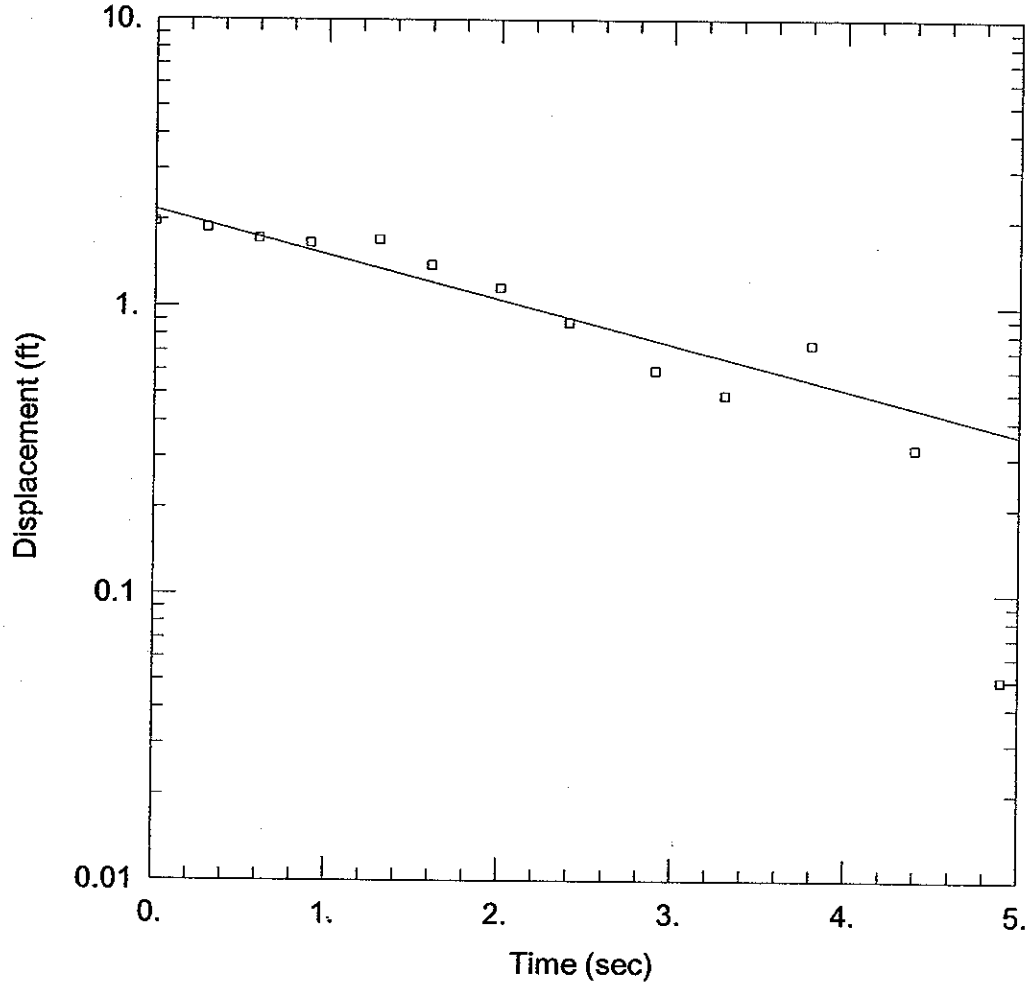
Parameter Correlations

	K	y0
K	1.00	0.74
y0	0.74	1.00

Residual Statistics

for weighted residuals

Sum of Squares . . . . . 2.738 ft^2
Variance . . . . . 0.1956 ft^2
Std. Deviation . . . . . 0.4422 ft
Mean . . . . . -0.01201 ft
No. of Residuals 16
No. of Estimates 2



MW-19L-FALLING

Data Set: I:\Users\RAamot\Slug testing\MW-19L-falling.aqt
Date: 01/12/06 Time: 17:21:19

PROJECT INFORMATION

Company: CRA
Project: 2012
Location: Highway 96
Test Well: MW-19L
Test Date: 1/10/06

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-19L)

Initial Displacement: 1.971 ft
Total Well Penetration Depth: 230. ft
Casing Radius: 0.167 ft
Static Water Column Height: 230. ft
Screen Length: 12. ft
Wellbore Radius: 0.146 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.1286 ft/min
y0 = 2.171 ft

Data Set: I:\Users\RAamot\Slug testing\MW-19L-falling.aqt
Title: MW-19L-falling
Date: 01/12/06
Time: 17:21:36

PROJECT INFORMATION

Company: CRA
Project: 2012
Location: Highway 96
Test Date: 1/10/06
Test Well: MW-19L

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-19L

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1.971 ft
Static Water Column Height: 230. ft
Casing Radius: 0.167 ft
Wellbore Radius: 0.146 ft
Well Skin Radius: 0.146 ft
Screen Length: 12. ft
Total Well Penetration Depth: 230. ft

No. of Observations: 13

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	1.971	2.4	0.88
0.3	1.881	2.9	0.6
0.6	1.725	3.3	0.493
0.9	1.668	3.8	0.738
1.3	1.708	4.4	0.322
1.6	1.397	4.9	0.05
2.	1.16		

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
Shape Factor: 5.127

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.1286	ft/min
y0	2.171	ft

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	
K	0.1286	0.01521	ft/min
y0	2.171	0.1284	ft

Parameter Correlations

	K	y0
K	1.00	0.69
y0	0.69	1.00

Residual Statistics

for weighted residuals

Sum of Squares . . . . . 0.4279 ft^2
Variance . . . . . 0.0389 ft^2
Std. Deviation . . . . . 0.1972 ft
Mean . . . . . -0.01503 ft
No. of Residuals 13
No. of Estimates 2