

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Date: 5/15/2008
Test Well: OW-735 U

AQUIFER DATA

Saturated Thickness: 26.35 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: OW-735 U

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

Initial Displacement: 10.05 ft
Static Water Column Height: 26.35 ft
Casing Radius: 0.083 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 16. ft
Total Well Penetration Depth: 28. ft

No. of Observations: 42

Observation Data			
Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	10.05	13.21	-0.087
0.25	8.009	14.35	0.043
0.61	5.49	15.55	0.21
0.97	3.172	16.81	0.156
1.39	1.14	18.13	0.011
1.81	-0.043	19.57	0.052
2.23	-0.624	21.07	0.156
2.711	-0.809	22.63	0.098
3.25	-0.653	24.31	0.048
3.73	-0.331	26.11	0.123
4.33	0.203	27.97	0.09
4.93	0.777	30.01	0.075
5.531	0.763	32.11	0.112
6.19	0.47	34.33	0.08
6.91	0.018	36.73	0.095
7.69	-0.241	39.25	0.088
8.47	-0.194	41.89	0.095
9.311	0.075	44.71	0.088
10.21	0.348	47.71	0.091
11.17	0.289	50.89	0.088
12.13	0.059	54.25	0.079

SOLUTION

Slug Test
Aquifer Model: Unconfined

VISUAL ESTIMATION RESULTS

Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	80.18	ft/day
Le	7.402	ft

K = 0.02829 cm/sec
T = K*b = 2112.8 ft²/day (22.72 sq. cm/sec)
Le = 7.402 ft
Solution is critically damped when C(D) = 1.

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	<u>Std. Error</u>	<u>Approx. C.I.</u>	<u>t-Ratio</u>	
K	80.18	3.287	+/- 6.643	24.4	ft/day
Le	7.402	0.7929	+/- 1.603	9.335	ft

C.I. is approximate 95% confidence interval for parameter
t-ratio = estimate/std. error
No estimation window

K = 0.02829 cm/sec
T = K*b = 2112.8 ft²/day (22.72 sq. cm/sec)
Le = 7.402 ft
Solution is critically damped when C(D) = 1.

Parameter Correlations

	<u>K</u>	<u>Le</u>
K	1.00	0.06
Le	0.06	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 4.128 ft²
Variance 0.1032 ft²
Std. Deviation 0.3212 ft
Mean 0.04039 ft
No. of Residuals .. 42
No. of Estimates .. 2