

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Date: 5/20/2008
Test Well: OW-812 L

AQUIFER DATA

Saturated Thickness: 86. ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: OW-812 L

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

Initial Displacement: 10.48 ft
Static Water Column Height: 109.3 ft
Casing Radius: 0.083 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 15. ft
Total Well Penetration Depth: 109. ft

No. of Observations: 25

<u>Observation Data</u>			
<u>Time (sec)</u>	<u>Displacement (ft)</u>	<u>Time (sec)</u>	<u>Displacement (ft)</u>
0.	10.48	7.296	1.536
0.222	10.29	8.137	1.216
0.637	9.641	9.037	0.952
1.153	8.578	9.997	0.738
1.537	7.742	10.96	0.584
2.076	6.613	12.04	0.468
2.556	5.731	13.18	0.395
3.157	4.814	14.38	0.361
3.757	4.053	15.64	0.346
4.357	3.434	16.96	0.341
5.016	2.869	18.4	0.336
5.736	2.363	19.9	0.338
6.516	1.9		

SOLUTION

Slug Test
Aquifer Model: Confined
Solution Method: Butler
Log Factor: 0.2089

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter Estimate

K 21.01 ft/day
 Le 47.1 ft

K = 0.007412 cm/sec
 T = K*b = 1806.9 ft²/day (19.43 sq. cm/sec)
 Le = 47.1 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	21.01	0.2008	+/- 0.4155	104.6	ft/day
Le	47.1	4.282	+/- 8.86	11.	ft

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

K = 0.007412 cm/sec
 T = K*b = 1806.9 ft²/day (19.43 sq. cm/sec)
 Le = 47.1 ft
 Solution is critically damped when C(D) = 1.

Parameter Correlations

	<u>K</u>	<u>Le</u>
K	1.00	0.16
Le	0.16	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 0.3271 ft²
 Variance 0.01422 ft²
 Std. Deviation 0.1193 ft
 Mean 0.04833 ft
 No. of Residuals .. 25
 No. of Estimates .. 2