

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Date: 6/06/2008
Test Well: OW-805 L

AQUIFER DATA

Saturated Thickness: 67.5 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: OW-805 L

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

Initial Displacement: 10.51 ft
Static Water Column Height: 97.51 ft
Casing Radius: 0.083 ft
Well Radius: 0.21 ft
Well Skin Radius: 0.21 ft
Screen Length: 17. ft
Total Well Penetration Depth: 97. ft

No. of Observations: 29

Observation Data			
<u>Time (sec)</u>	<u>Displacement (ft)</u>	<u>Time (sec)</u>	<u>Displacement (ft)</u>
0.	10.51	21.9	2.487
0.96	9.55	24.12	2.132
1.92	8.86	26.52	1.792
3.	8.261	29.04	1.48
4.141	7.697	31.68	1.206
5.341	7.144	34.5	0.963
6.6	6.62	37.5	0.749
7.92	6.102	40.68	0.564
9.36	5.593	44.04	0.416
10.86	5.096	47.64	0.295
12.42	4.628	51.24	0.21
14.1	4.162	55.44	0.111
15.9	3.707	59.64	0.051
17.76	3.285	63.84	0.
19.8	2.865		

SOLUTION

Slug Test
Aquifer Model: Confined
Solution Method: Butler
Log Factor: 0.1966

VISUAL ESTIMATION RESULTS

Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	5.269	ft/day
Le	0.1	ft

$K = 0.001859 \text{ cm/sec}$
 $T = K*b = 355.6 \text{ ft}^2/\text{day} (3.824 \text{ sq. cm/sec})$
 $Le = 0.1 \text{ ft}$
 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	5.269	0.05823	+/- 0.1195	90.48	ft/day
Le	0.1	63.55	+/- 130.4	0.001574	ft

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

$K = 0.001859 \text{ cm/sec}$
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 $Le = 0.1 \text{ ft}$
 Solution is critically damped when $C(D) = 1$.

Parameter Correlations

	<u>K</u>	<u>Le</u>
K	1.00	0.20
Le	0.20	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 0.6381 ft²
 Variance 0.02363 ft²
 Std. Deviation 0.1537 ft
 Mean -0.05362 ft
 No. of Residuals .. 29
 No. of Estimates .. 2