

PROJECT INFORMATION

Company: MACTEC  
Client: Bechtel  
Project: 6468-07-1950  
Location: Turkey Point COL  
Test Date: 5/20/2008  
Test Well: OW-802 L

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AQUIFER DATA

Saturated Thickness: 88. ft  
Anisotropy Ratio (Kz/Kr): 1.

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SLUG TEST WELL DATA

Test Well: OW-802 L

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

Initial Displacement: 12.8 ft  
Static Water Column Height: 110.2 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: 110. ft

No. of Observations: 39

Observation Data			
<u>Time (sec)</u>	<u>Displacement (ft)</u>	<u>Time (sec)</u>	<u>Displacement (ft)</u>
0.	12.8	5.733	2.03
0.221	11.89	6.204	1.662
0.723	11.36	6.804	1.267
0.944	10.76	7.404	0.945
1.168	10.15	8.005	0.687
1.392	9.527	8.664	0.469
1.617	8.915	9.384	0.297
1.841	8.324	10.16	0.169
2.065	7.751	10.94	0.096
2.289	7.217	11.78	0.053
2.513	6.698	12.68	0.022
2.737	6.217	13.64	0.022
2.962	5.773	14.6	0.027
3.186	5.332	15.68	0.035
3.412	4.933	16.82	0.043
3.636	4.564	18.02	0.042
3.862	4.209	19.28	0.046
4.367	3.483	20.6	0.027
4.704	3.063	22.04	0.05
5.509	2.232		

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SOLUTION

Slug Test  
Aquifer Model: Confined  
Solution Method: Butler

VISUAL ESTIMATION RESULTSEstimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	23.28	ft/day
Le	58.98	ft

K = 0.008212 cm/sec

T = K\*b = 2048.6 ft<sup>2</sup>/day (22.03 sq. cm/sec)

Le = 58.98 ft

Solution is critically damped when C(D) = 1.

AUTOMATIC ESTIMATION RESULTSEstimated Parameters

<u>Parameter</u>	<u>Estimate</u>	<u>Std. Error</u>	<u>Approx. C.I.</u>	<u>t-Ratio</u>	
K	23.28	0.219	+/- 0.4436	106.3	ft/day
Le	58.98	3.006	+/- 6.089	19.62	ft

C.I. is approximate 95% confidence interval for parameter

t-ratio = estimate/std. error

No estimation window

K = 0.008212 cm/sec

T = K\*b = 2048.6 ft<sup>2</sup>/day (22.03 sq. cm/sec)

Le = 58.98 ft

Solution is critically damped when C(D) = 1.

Parameter Correlations

	<u>K</u>	<u>Le</u>
K	1.00	0.30
Le	0.30	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 1.168 ft<sup>2</sup>  
Variance ..... 0.03157 ft<sup>2</sup>  
Std. Deviation ..... 0.1777 ft  
Mean ..... -0.05757 ft  
No. of Residuals .. 39  
No. of Estimates .. 2