

PROJECT INFORMATION

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

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AQUIFER DATA

Saturated Thickness: 25.8 ft  
Anisotropy Ratio (Kz/Kr): 1.

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SLUG TEST WELL DATA

Test Well: OW-802 U

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

Initial Displacement: 7.799 ft  
Static Water Column Height: 25.8 ft  
Casing Radius: 0.083 ft  
Well Radius: 0.25 ft  
Well Skin Radius: 0.25 ft  
Screen Length: 17. ft  
Total Well Penetration Depth: 27. ft

No. of Observations: 43

Observation Data			
Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	7.799	9.687	0.015
0.224	7.399	10.59	0.013
0.445	5.388	11.55	0.01
0.919	4.644	12.51	0.007
1.141	4.052	13.59	0.006
1.365	3.545	14.73	0.007
1.586	3.123	15.93	0.
1.808	2.741	17.19	0.
2.031	2.307	18.51	0.002
2.328	2.021	19.95	0.002
2.55	1.769	21.45	0.001
2.773	1.541	23.01	-0.002
3.087	1.263	24.69	0.002
3.627	0.869	26.49	0.003
4.107	0.601	28.35	0.002
4.707	0.365	30.39	0.003
5.307	0.205	32.49	0.008
5.907	0.111	34.71	0.005
6.567	0.056	37.11	0.002
7.287	0.036	39.63	0.002
8.067	0.025	42.27	-0.002
8.847	0.023		

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SOLUTION

Slug Test

Aquifer Model: Unconfined  
Solution Method: Springer-Gelhar  
ln(Re/rw): 3.534

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## VISUAL ESTIMATION RESULTS

### Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	31.9	ft/day
Le	1.8	ft

K = 0.01125 cm/sec

T = K\*b = 823.1 ft<sup>2</sup>/day (8.85 sq. cm/sec)

Le = 1.8 ft

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

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## 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	31.9	0.475	+/- 0.9595	67.17	ft/day
Le	1.8	1.369	+/- 2.766	1.314	ft

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

t-ratio = estimate/std. error

No estimation window

K = 0.01125 cm/sec

T = K\*b = 823.1 ft<sup>2</sup>/day (8.85 sq. cm/sec)

Le = 1.8 ft

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

### Parameter Correlations

	<u>K</u>	<u>Le</u>
K	1.00	0.08
Le	0.08	1.00

### Residual Statistics

for weighted residuals

Sum of Squares... 0.7737 ft<sup>2</sup>  
Variance ..... 0.01887 ft<sup>2</sup>  
Std. Deviation ..... 0.1374 ft  
Mean ..... -0.008423 ft  
No. of Residuals .. 43  
No. of Estimates .. 2