

PROJECT INFORMATION

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

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AQUIFER DATA

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

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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		

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SOLUTION

Slug Test  
Aquifer Model: Confined  
Solution Method: KGS Model

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VISUAL ESTIMATION RESULTS

Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
Kr	5.936	ft/day
Ss	1.481E-12	ft <sup>-1</sup>
Kz/Kr	1.	

K = 0.002094 cm/sec

T = K\*b = 400.7 ft<sup>2</sup>/day (4.308 sq. cm/sec)

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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>	
Kr	5.936	2.438	+/- 5.002	2.435	ft/day
Ss	1.481E-12	2.712E-11	+/- 5.565E-11	0.05463	ft <sup>-1</sup>
Kz/Kr	1.	not estimated			

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

t-ratio = estimate/std. error

No estimation window

K = 0.002094 cm/sec

T = K\*b = 400.7 ft<sup>2</sup>/day (4.308 sq. cm/sec)

#### Parameter Correlations

	<u>Kr</u>	<u>Ss</u>
Kr	1.00	-1.00
Ss	-1.00	1.00

#### Residual Statistics

for weighted residuals

Sum of Squares... 0.822 ft<sup>2</sup>  
Variance ..... 0.03044 ft<sup>2</sup>  
Std. Deviation ..... 0.1745 ft  
Mean ..... -0.06174 ft  
No. of Residuals .. 29  
No. of Estimates .. 2