

PROJECT INFORMATION

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

AQUIFER DATA

Saturated Thickness: 32.3 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: OW-805 U

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

Initial Displacement: 3.886 ft
Static Water Column Height: 29.8 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: 30. ft

No. of Observations: 23

Observation Data			
<u>Time (sec)</u>	<u>Displacement (ft)</u>	<u>Time (sec)</u>	<u>Displacement (ft)</u>
0.	3.886	15.9	0.267
0.96	1.207	17.76	0.037
1.92	-0.715	19.8	-0.045
3.001	-0.693	21.9	0.194
4.141	0.371	24.12	-0.044
5.341	0.856	26.52	0.108
6.6	0.152	29.04	0.032
7.92	-0.406	31.68	0.064
9.36	0.073	34.5	0.037
10.86	0.425	37.5	0.065
12.42	-0.035	40.68	0.03
14.1	-0.134		

SOLUTION

Slug Test
Aquifer Model: Unconfined
Solution Method: KGS Model

VISUAL ESTIMATION RESULTS

Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
Kr	101.7	ft/day
Ss	3.077E-12	ft ⁻¹

Kz/Kr 1.

K = 0.03588 cm/sec

T = K*b = 3285.1 ft²/day (35.32 sq. cm/sec)

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	101.7	107.9	+/- 224.5	0.9423	ft/day
Ss	3.077E-12	4.287E-5	+/- 8.918E-5	7.177E-8	ft ⁻¹
Kz/Kr	1.	not estimated			

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

t-ratio = estimate/std. error

No estimation window

K = 0.03588 cm/sec

T = K*b = 3285.1 ft²/day (35.32 sq. cm/sec)

Parameter Correlations

	<u>Kr</u>	<u>Ss</u>
Kr	1.00	0.97
Ss	0.97	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 2.878 ft²
Variance 0.1371 ft²
Std. Deviation 0.3702 ft
Mean 0.03841 ft
No. of Residuals .. 23
No. of Estimates .. 2