

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Date: 5/15/2008
Test Well: OW-809 U

AQUIFER DATA

Saturated Thickness: 25.52 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: OW-809 U

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

Initial Displacement: 3.175 ft
Static Water Column Height: 25.52 ft
Casing Radius: 0.083 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 14.4 ft
Total Well Penetration Depth: 27. ft

No. of Observations: 25

Observation Data			
<u>Time (sec)</u>	<u>Displacement (ft)</u>	<u>Time (sec)</u>	<u>Displacement (ft)</u>
0.	3.175	31.62	0.003
1.681	0.627	35.22	0.007
3.48	0.132	38.82	0.008
5.34	0.022	43.02	0.001
7.38	0.008	47.22	0.009
9.48	0.006	51.42	0.004
11.7	0.008	56.22	0.002
14.1	0.007	61.62	0.005
16.62	0.005	66.42	0.001
19.26	0.009	72.42	0.007
22.08	0.006	78.42	0.003
25.08	0.004	84.42	0.004
28.26	0.005		

SOLUTION

Slug Test
Aquifer Model: Unconfined
Solution Method: KGS Model

VISUAL ESTIMATION RESULTS

Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
Kr	82.32	ft/day

Ss 2.789E-6 ft⁻¹
 Kz/Kr 1.

K = 0.02904 cm/sec
 T = K*b = 2100.9 ft²/day (22.59 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	82.32	0.4948	+/- 1.024	166.4	ft/day
Ss	2.789E-6	7.86E-7	+/- 1.626E-6	3.549	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 = 0.02904 cm/sec
 T = K*b = 2100.9 ft²/day (22.59 sq. cm/sec)

Parameter Correlations

	<u>Kr</u>	<u>Ss</u>
Kr	1.00	0.30
Ss	0.30	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 0.0007839 ft²
 Variance 3.408E-5 ft²
 Std. Deviation 0.005838 ft
 Mean 0.004452 ft
 No. of Residuals .. 25
 No. of Estimates .. 2