

PROJECT INFORMATION

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

AQUIFER DATA

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

SLUG TEST WELL DATA

Test Well: OW-809 L

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

Initial Displacement: 11.29 ft
Static Water Column Height: 110. ft
Casing Radius: 0.083 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 19. ft
Total Well Penetration Depth: 110. ft

No. of Observations: 43

Observation Data			
Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	11.29	51.3	-0.003
1.2	2.058	55.5	0.003
2.46	0.355	59.7	0.006
3.779	0.15	64.5	0.
5.22	0.05	69.9	0.002
6.72	0.023	74.7	0.003
8.28	0.033	80.7	0.007
9.96	0.062	86.7	0.001
11.76	0.059	92.7	-0.003
13.62	0.038	99.3	-0.002
15.66	0.021	106.5	-0.004
17.76	0.004	114.3	0.002
19.98	0.	122.1	-0.001
22.38	0.	130.5	0.002
24.9	0.005	139.5	0.
27.54	0.007	149.1	0.
30.36	-0.001	158.7	0.001
33.36	0.005	169.5	-0.001
36.54	0.004	180.9	0.002
39.9	-0.007	192.9	0.
43.5	-0.001	205.5	-0.005
47.1	0.		

SOLUTION

Slug Test

VISUAL ESTIMATION RESULTS

Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
Kr	108.6	ft/day
Ss	4.263E-12	ft ⁻¹
Kz/Kr	1.	

K = 0.03832 cm/sec
 T = K*b = 9558.4 ft²/day (102.8 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	108.6	18.65	+/- 37.68	5.823	ft/day
Ss	4.263E-12	3.732E-11	+/- 7.538E-11	0.1142	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 = 0.03832 cm/sec
 T = K*b = 9558.4 ft²/day (102.8 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... 0.01335 ft²
 Variance 0.0003257 ft²
 Std. Deviation 0.01805 ft
 Mean 0.001464 ft
 No. of Residuals .. 43
 No. of Estimates .. 2