

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

Aquifer Model: Confined
Solution Method: Butler
Log Factor: 0.199

VISUAL ESTIMATION RESULTS

Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	103.7	ft/day
Le	0.1	ft

K = 0.0366 cm/sec

T = K*b = 9129.8 ft²/day (98.17 sq. cm/sec)

Le = 0.1 ft

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

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	103.7	3.237	+/- 6.539	32.05	ft/day
Le	0.1	1.016	+/- 2.053	0.09838	ft

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

t-ratio = estimate/std. error

No estimation window

K = 0.0366 cm/sec

T = K*b = 9129.8 ft²/day (98.17 sq. cm/sec)

Le = 0.1 ft

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

Parameter Correlations

	<u>K</u>	<u>Le</u>
K	1.00	-0.98
Le	-0.98	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 0.02259 ft²
Variance 0.0005511 ft²
Std. Deviation 0.02348 ft
Mean 0.009415 ft
No. of Residuals .. 43
No. of Estimates .. 2