

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: Confined
Solution Method: Butler
Log Factor: 0.237

VISUAL ESTIMATION RESULTS

Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	136.4	ft/day

Le 16.61 ft

K = 0.04811 cm/sec

T = K*b = 4404.5 ft²/day (47.36 sq. cm/sec)

Le = 16.61 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	136.4	13.54	+/- 28.16	10.07	ft/day
Le	16.61	1.295	+/- 2.693	12.83	ft

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

t-ratio = estimate/std. error

No estimation window

K = 0.04811 cm/sec

T = K*b = 4404.5 ft²/day (47.36 sq. cm/sec)

Le = 16.61 ft

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

Parameter Correlations

	<u>K</u>	<u>Le</u>
K	1.00	0.05
Le	0.05	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 1.072 ft²
Variance 0.05103 ft²
Std. Deviation 0.2259 ft
Mean 0.0749 ft
No. of Residuals .. 23
No. of Estimates .. 2