

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Date: 5/15/2008
Test Well: OW-735 U

AQUIFER DATA

Saturated Thickness: 26.45 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: OW-735 U

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

Initial Displacement: 0.553 ft
Static Water Column Height: 26.45 ft
Casing Radius: 0.083 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 16. ft
Total Well Penetration Depth: 28. ft

No. of Observations: 42

Observation Data			
<u>Time (sec)</u>	<u>Displacement (ft)</u>	<u>Time (sec)</u>	<u>Displacement (ft)</u>
0.	0.553	83.64	-0.006
2.1	0.063	90.84	-0.003
4.32	-0.327	98.64	-0.005
6.72	0.282	106.4	-0.005
9.239	-0.249	114.8	-0.005
11.88	0.176	123.8	-0.001
14.7	-0.122	133.4	-0.005
17.7	0.051	143.	-0.007
20.88	0.001	153.8	-0.006
24.24	-0.037	165.2	-0.002
27.84	0.023	177.2	0.
31.44	-0.006	189.8	-0.008
35.64	-0.019	203.	-0.006
39.84	-0.005	217.4	0.
44.04	-0.004	232.4	-0.001
48.84	-0.002	248.	-0.003
54.24	-0.002	264.8	-0.006
59.04	-0.003	282.8	-0.005
65.04	-0.004	301.4	-0.002
71.04	-0.008	321.8	0.004
77.04	-0.006	342.8	0.016

SOLUTION

Slug Test
Aquifer Model: Unconfined

VISUAL ESTIMATION RESULTS

Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	319.2	ft/day
Le	33.28	ft

K = 0.1126 cm/sec
T = K*b = 8444.1 ft²/day (90.8 sq. cm/sec)
Le = 33.28 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	319.2	51.87	+/- 104.8	6.155	ft/day
Le	33.28	0.7535	+/- 1.523	44.17	ft

C.I. is approximate 95% confidence interval for parameter
t-ratio = estimate/std. error
No estimation window

K = 0.1126 cm/sec
T = K*b = 8444.1 ft²/day (90.8 sq. cm/sec)
Le = 33.28 ft
Solution is critically damped when C(D) = 1.

Parameter Correlations

	<u>K</u>	<u>Le</u>
K	1.00	0.36
Le	0.36	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 0.09793 ft²
Variance 0.002448 ft²
Std. Deviation 0.04948 ft
Mean -0.0005596 ft
No. of Residuals .. 42
No. of Estimates .. 2