

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: 2.64 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: 44

| Observation Data | | | |
|------------------|-------------------|------------|-------------------|
| Time (sec) | Displacement (ft) | Time (sec) | Displacement (ft) |
| 0. | 2.64 | 80.94 | -0.003 |
| 1.86 | 1.281 | 87.54 | 0.004 |
| 3.9 | 0.324 | 94.74 | 0.001 |
| 6. | -0.013 | 102.5 | 0.004 |
| 8.22 | -0.052 | 110.3 | 0.003 |
| 10.62 | -0.009 | 118.7 | 0. |
| 13.14 | 0.016 | 127.7 | 0.001 |
| 15.78 | 0.015 | 137.3 | 0.003 |
| 18.6 | 0.005 | 146.9 | -0.004 |
| 21.6 | 0.005 | 157.7 | 0.005 |
| 24.78 | -0.001 | 169.1 | -0.005 |
| 28.14 | 0.003 | 181.1 | -0.004 |
| 31.74 | 0.007 | 193.7 | -0.001 |
| 35.34 | 0.008 | 206.9 | -0.001 |
| 39.54 | 0.002 | 221.3 | -0.002 |
| 43.74 | -0.001 | 236.3 | -0.005 |
| 47.94 | -0.001 | 251.9 | -0.005 |
| 52.74 | 0. | 268.7 | -0.002 |
| 58.14 | 0.004 | 286.7 | 0.003 |
| 62.94 | 0.001 | 305.3 | -0.008 |
| 68.94 | -0.002 | 325.7 | -0.002 |
| 74.94 | 0.002 | 346.7 | 0.002 |

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 | 33.43 | ft/day |
| Le | 42.49 | ft |

K = 0.01179 cm/sec

T = K*b = 2941.5 ft²/day (31.63 sq. cm/sec)

Le = 42.49 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 | 33.43 | 0.3054 | +/- 0.6162 | 109.5 | ft/day |
| Le | 42.49 | 1.355 | +/- 2.734 | 31.36 | ft |

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

t-ratio = estimate/std. error

No estimation window

K = 0.01179 cm/sec

T = K*b = 2941.5 ft²/day (31.63 sq. cm/sec)

Le = 42.49 ft

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

Parameter Correlations

| | <u>K</u> | <u>Le</u> |
|----|----------|-----------|
| K | 1.00 | 0.07 |
| Le | 0.07 | 1.00 |

Residual Statistics

for weighted residuals

Sum of Squares... 0.007516 ft²
Variance 0.0001789 ft²
Std. Deviation 0.01338 ft
Mean -0.0007343 ft
No. of Residuals .. 44
No. of Estimates .. 2