

PROJECT INFORMATION

Company: MACTEC  
Client: Bechtel  
Project: 6468-07-1950  
Location: Turkey Point COL  
Test Date: 5/20/2008  
Test Well: OW-802 U

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AQUIFER DATA

Saturated Thickness: 25.8 ft  
Anisotropy Ratio (Kz/Kr): 1.

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SLUG TEST WELL DATA

Test Well: OW-802 U

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

Initial Displacement: 7.799 ft  
Static Water Column Height: 25.8 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: 27. ft

No. of Observations: 43

| Observation Data |                   |            |                   |
|------------------|-------------------|------------|-------------------|
| Time (sec)       | Displacement (ft) | Time (sec) | Displacement (ft) |
| 0.               | 7.799             | 9.687      | 0.015             |
| 0.224            | 7.399             | 10.59      | 0.013             |
| 0.445            | 5.388             | 11.55      | 0.01              |
| 0.919            | 4.644             | 12.51      | 0.007             |
| 1.141            | 4.052             | 13.59      | 0.006             |
| 1.365            | 3.545             | 14.73      | 0.007             |
| 1.586            | 3.123             | 15.93      | 0.                |
| 1.808            | 2.741             | 17.19      | 0.                |
| 2.031            | 2.307             | 18.51      | 0.002             |
| 2.328            | 2.021             | 19.95      | 0.002             |
| 2.55             | 1.769             | 21.45      | 0.001             |
| 2.773            | 1.541             | 23.01      | -0.002            |
| 3.087            | 1.263             | 24.69      | 0.002             |
| 3.627            | 0.869             | 26.49      | 0.003             |
| 4.107            | 0.601             | 28.35      | 0.002             |
| 4.707            | 0.365             | 30.39      | 0.003             |
| 5.307            | 0.205             | 32.49      | 0.008             |
| 5.907            | 0.111             | 34.71      | 0.005             |
| 6.567            | 0.056             | 37.11      | 0.002             |
| 7.287            | 0.036             | 39.63      | 0.002             |
| 8.067            | 0.025             | 42.27      | -0.002            |
| 8.847            | 0.023             |            |                   |

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SOLUTION

Slug Test

Aquifer Model: Unconfined  
Solution Method: Bouwer-Rice  
ln(Re/rw): 3.534

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## VISUAL ESTIMATION RESULTS

### Estimated Parameters

| <u>Parameter</u> | <u>Estimate</u> |        |
|------------------|-----------------|--------|
| K                | 32.14           | ft/day |
| y0               | 7.886           | ft     |

K = 0.01134 cm/sec

T = K\*b = 829.2 ft<sup>2</sup>/day (8.916 sq. cm/sec)

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## 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                | 32.14           | 0.6373            | +/- 1.287           | 50.43          | ft/day |
| y0               | 7.886           | 0.09551           | +/- 0.1929          | 82.57          | ft     |

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

t-ratio = estimate/std. error

No estimation window

K = 0.01134 cm/sec

T = K\*b = 829.2 ft<sup>2</sup>/day (8.916 sq. cm/sec)

### Parameter Correlations

|    |          |           |
|----|----------|-----------|
|    | <u>K</u> | <u>y0</u> |
| K  | 1.00     | 0.65      |
| y0 | 0.65     | 1.00      |

### Residual Statistics

for weighted residuals

Sum of Squares... 0.788 ft<sup>2</sup>  
Variance ..... 0.01922 ft<sup>2</sup>  
Std. Deviation ..... 0.1386 ft  
Mean ..... -0.009958 ft  
No. of Residuals .. 43  
No. of Estimates .. 2