

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Date: 5/20/2008
Test Well: OW-809 U

AQUIFER DATA

Saturated Thickness: 25.48 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: OW-809 U

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

Initial Displacement: 11.02 ft
Static Water Column Height: 25.48 ft
Casing Radius: 0.083 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 14.4 ft
Total Well Penetration Depth: 27. ft

No. of Observations: 37

Observation Data			
Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	11.02	8.16	0.161
0.25	10.14	8.94	0.081
0.5	8.901	9.72	0.042
0.75	7.89	10.56	0.017
1.	7.037	11.46	0.009
1.25	6.38	12.42	0.002
1.5	5.814	13.38	0.005
1.86	5.062	14.46	0.
2.22	4.406	15.6	0.002
2.64	3.736	16.8	0.001
3.06	3.147	18.06	-0.005
3.48	2.633	19.38	-0.002
3.96	2.124	20.82	0.
4.5	1.647	22.32	-0.003
4.98	1.295	23.88	-0.001
5.58	0.935	25.56	-0.008
6.18	0.658	27.36	0.
6.78	0.448	29.22	-0.015
7.44	0.284		

SOLUTION

Slug Test
Aquifer Model: Unconfined
Solution Method: KGS Model

VISUAL ESTIMATION RESULTS

Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
Kr	35.94	ft/day
Ss	4.032E-19	ft ⁻¹
Kz/Kr	1.	

K = 0.01268 cm/sec

T = K*b = 915.8 ft²/day (9.848 sq. cm/sec)

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	<u>Std. Error</u>	<u>Approx. C.I.</u>	<u>t-Ratio</u>	
Kr	35.94	0.3052	+/- 0.6196	117.8	ft/day
Ss	4.032E-19	8.473E-12	+/- 1.72E-11	4.759E-8	ft ⁻¹
Kz/Kr	1.	not estimated			

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

t-ratio = estimate/std. error

No estimation window

K = 0.01268 cm/sec

T = K*b = 915.8 ft²/day (9.848 sq. cm/sec)

Parameter Correlations

	<u>Kr</u>	<u>Ss</u>
Kr	1.00	0.06
Ss	0.06	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 0.4303 ft²
Variance 0.0123 ft²
Std. Deviation 0.1109 ft
Mean -0.0233 ft
No. of Residuals .. 37
No. of Estimates .. 2