

PROJECT INFORMATION

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

AQUIFER DATA

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

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		

SOLUTION

Slug Test

VISUAL ESTIMATION RESULTS

Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
Kr	41.06	ft/day
Ss	3.704E-12	ft ⁻¹
Kz/Kr	1.	

K = 0.01449 cm/sec

T = K*b = 1059.5 ft²/day (11.39 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	41.06	0.6356	+/- 1.284	64.61	ft/day
Ss	3.704E-12	4.766E-7	+/- 9.628E-7	7.771E-6	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 = 0.01449 cm/sec

T = K*b = 1059.5 ft²/day (11.39 sq. cm/sec)

Parameter Correlations

	<u>Kr</u>	<u>Ss</u>
Kr	1.00	-0.08
Ss	-0.08	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 0.8278 ft²
Variance 0.02019 ft²
Std. Deviation 0.1421 ft
Mean -0.006228 ft
No. of Residuals .. 43
No. of Estimates .. 2