Data Set: Z:\Turkey Point FPL Units 6 and 7\Hydrogeology\Slug Test Files\OW-621L_RHT_KGS.aqt
Title: OW-621 L RISING HEAD TEST 5-17-08
Date: 06/08/16
Time: 10:08:50

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Date: 5-17-08
Test Well: OW-621 L

AQUIFER DATA

Saturated Thickness: 88.5 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: OW-621 L

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

Initial Displacement: 3.011 ft
Static Water Column Height: 108.9 ft
Casing Radius: 0.083 ft
Well Radius: 0.3 ft
Well Skin Radius: 0.3 ft
Screen Length: 15. ft
Total Well Penetration Depth: 110. ft

No. of Observations: 40

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	3.011	103.	0.001
2.82	1.052	112.	-0.001
5.82	0.214	121.6	0.002
9.	0.055	131.2	0.004
12.36	0.079	142.	0.005
15.96	0.01	153.4	0.003
19.56	0.008	165.4	-0.001
23.76	0.001	178.	0.001
27.96	-0.004	191.2	0.003
32.16	-0.004	205.6	0.002
36.96	-0.001	220.6	0.003
42.36	0.001	236.2	0.002
47.16	-0.003	253.	0.005
53.16	0.002	271.	0.005
59.16	0.004	289.6	0.002
65.16	0.	310.	0.005

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
71.76	0.001	331.	0.001
78.96	0.001	353.2	0.006
86.76	-0.003	377.2	0.007
94.56	0.001	402.4	0.003

SOLUTION

Slug Test
Aquifer Model: Confined
Solution Method: KGS Model

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
Kr	33.31	ft/day
Ss	1.13E-12	ft^{-1}
Kz/Kr	1.	

K = 0.01175 cm/sec
T = K*b = 2947.9 ft²/day (31.7 sq. cm/sec)

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
Kr	33.31	3.259	+/- 6.597	10.22	ft/day
Ss	1.13E-12	0.0001266	+/- 0.0002563	8.922E-9	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 = 0.01175 cm/sec
T = K*b = 2947.9 ft²/day (31.7 sq. cm/sec)

Parameter Correlations

	Kr	Ss
Kr	1.00	-0.87
Ss	-0.87	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 0.3964 ft^2
Variance ..... 0.01043 ft^2
Std. Deviation..... 0.1021 ft
Mean..... -0.04458 ft

No. of Residuals . . 40
No. of Estimates . . 2