

Data Set: Z:\Turkey Point FPL Units 6 and 7\Hydrogeology\Slug Test Files\OW-706L_RHT_KGS.aqt
 Title: OW-706 L RISING HEAD TEST 5-16-08
 Date: 06/08/16
 Time: 11:15:23

PROJECT INFORMATION

Company: Turkey Point
 Client: BECHTEL
 Project: 6468-07-1950
 Location: Turkey Point
 Test Date: 5-16-08
 Test Well: OW-706 L

AQUIFER DATA

Saturated Thickness: 82.8 ft
 Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: OW-706 L

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

Initial Displacement: 2.693 ft
 Static Water Column Height: 113.7 ft
 Casing Radius: 0.083 ft
 Well Radius: 0.25 ft
 Well Skin Radius: 0.25 ft
 Screen Length: 15.1 ft
 Total Well Penetration Depth: 112. ft

No. of Observations: 44

Observation Data			
<u>Time (sec)</u>	<u>Displacement (ft)</u>	<u>Time (sec)</u>	<u>Displacement (ft)</u>
0.	2.693	90.84	-0.004
2.1	1.489	98.64	-0.005
4.32	0.736	106.4	-0.004
6.72	0.316	114.8	-0.003
9.24	0.127	123.8	-0.004
11.88	0.052	133.4	-0.004
14.7	0.02	143.	-0.005
17.7	0.014	153.8	-0.001
20.88	0.002	165.2	-0.004
24.24	0.001	177.2	0.
27.84	-0.001	189.8	0.002
31.44	-0.002	203.	-0.006
35.64	0.	217.4	-0.001
39.84	0.003	232.4	-0.002
44.04	-0.003	248.	-0.005
48.84	-0.002	264.8	-0.003

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
54.24	0.001	282.8	0.
59.04	0.	301.4	-0.003
65.04	-0.002	321.8	-0.005
71.04	-0.004	342.8	-0.003
77.04	-0.002	365.	-0.001
83.64	-0.001	389.	0.

SOLUTION

Slug Test
 Aquifer Model: Confined
 Solution Method: KGS Model

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
Kr	26.07	ft/day
Ss	1.208E-12	ft ⁻¹
Kz/Kr	1.	

K = 0.009196 cm/sec
 T = K*b = 2158.5 ft²/day (23.21 sq. cm/sec)

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
Kr	26.07	12.43	+/- 25.08	2.098	ft/day
Ss	1.208E-12	3.119E-11	+/- 6.294E-11	0.03872	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 = 0.009196 cm/sec
 T = K*b = 2158.5 ft²/day (23.21 sq. cm/sec)

Parameter Correlations

	Kr	Ss
Kr	1.00	-1.00
Ss	-1.00	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 0.0182 ft²
 Variance 0.0004333 ft²

Std. Deviation 0.02081 ft
Mean -0.006126 ft
No. of Residuals . . 44
No. of Estimates . . 2