

Data Set: Z:\Turkey Point FPL Units 6 and 7\Hydrogeology\Slug Test Files\OW-735L _RHT_KGS.aqt

Title: OW-735 L RISING HEAD TEST 5-15-08

Date: 06/08/16

Time: 13:10:48

PROJECT INFORMATION

Company: Turkey Point

Client: BECHTEL

Project: 6468-07-1950

Location: Turkey Point

Test Date: 5-20-08

Test Well: OW-735 L

AQUIFER DATA

Saturated Thickness: 87. ft

Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: OW-735 L

X Location: 0. ft

Y Location: 0. ft

Initial Displacement: 5.779 ft

Static Water Column Height: 110.4 ft

Casing Radius: 0.083 ft

Well Radius: 0.25 ft

Well Skin Radius: 0.25 ft

Screen Length: 17.7 ft

Total Well Penetration Depth: 110. ft

No. of Observations: 36

Time (sec)	Observation Data		Displacement (ft)
	Displacement (ft)	Time (sec)	
0.	5.779	34.5	-0.005
1.14	2.633	37.68	0.001
2.34	1.71	41.04	0.003
3.6	0.989	44.64	0.007
4.92	0.489	48.24	0.004
6.36	0.183	52.44	0.005
7.86	0.028	56.64	0.003
9.42	-0.025	60.84	0.003
11.1	-0.014	65.64	0.
12.9	-0.008	71.04	0.002
14.76	0.011	75.84	0.004
16.8	0.011	81.84	0.01
18.9	0.008	87.84	0.002
21.12	0.009	93.84	0.003
23.52	0.005	100.4	0.005
26.04	-0.006	107.6	0.002

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
28.68	0.003	115.4	0.
31.5	0.006	123.2	0.004

SOLUTION

Slug Test
 Aquifer Model: Confined
 Solution Method: KGS Model

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
Kr	32.05	ft/day
Ss	2.446E-6	ft ⁻¹
Kz/Kr	1.	

K = 0.01131 cm/sec
 T = K*b = 2788.6 ft²/day (29.98 sq. cm/sec)

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
Kr	32.05	1.376	+/- 2.797	23.29	ft/day
Ss	2.446E-6	1.832E-6	+/- 3.722E-6	1.335	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 = 0.01131 cm/sec
 T = K*b = 2788.6 ft²/day (29.98 sq. cm/sec)

Parameter Correlations

	Kr	Ss
Kr	1.00	-0.86
Ss	-0.86	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 0.1558 ft²
 Variance 0.004582 ft²
 Std. Deviation 0.06769 ft
 Mean -0.01241 ft
 No. of Residuals .. 36
 No. of Estimates .. 2