

Data Set: Z:\Turkey Point FPL Units 6 and 7\Hydrogeology\Slug Test Files\OW-606L\_RHT\_BUTLER\_2.aqt  
 Title: OW-606 L RISING HEAD TEST 5-20-08  
 Date: 06/08/16  
 Time: 09:33:05

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PROJECT INFORMATION

Company: Turkey Point  
 Client: BECHTEL  
 Project: 6468-07-1950  
 Location: Turkey Point  
 Test Date: 5-18-08  
 Test Well: OW-606 L

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AQUIFER DATA

Saturated Thickness: 92. ft  
 Anisotropy Ratio (Kz/Kr): 1.

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SLUG TEST WELL DATA

Test Well: OW-606 L

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

Initial Displacement: 4.388 ft  
 Static Water Column Height: 108.7 ft  
 Casing Radius: 0.083 ft  
 Well Radius: 0.29 ft  
 Well Skin Radius: 0.29 ft  
 Screen Length: 16.2 ft  
 Total Well Penetration Depth: 109. ft

No. of Observations: 34

Time (sec)	Observation Data		Displacement (ft)
	Displacement (ft)	Time (sec)	
0.	4.388	9.499	0.178
0.222	4.081	10.46	0.447
0.444	3.869	11.42	0.55
0.679	3.658	12.5	0.475
1.099	3.234	13.64	0.262
1.519	2.64	14.84	0.009
1.999	1.915	16.1	-0.177
2.539	1.102	17.42	-0.242
3.019	0.446	18.86	-0.169
3.619	-0.237	20.37	-0.021
4.22	-0.736	21.92	0.101
4.82	-1.058	23.6	0.123
5.479	-1.208	25.4	0.06
6.199	-1.173	27.26	-0.019
6.979	-0.959	29.3	-0.051
7.759	-0.624	31.45	-0.019

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
8.6	-0.213	33.72	0.026

SOLUTION

Slug Test  
 Aquifer Model: Confined  
 Solution Method: Butler  
 Log Factor: 0.212

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	67.4	ft/day
Le	85.16	ft

K = 0.02378 cm/sec  
 T = K\*b = 6201. ft<sup>2</sup>/day (66.68 sq. cm/sec)  
 Le = 85.16 ft  
 Solution is critically damped when C(D) = 2.

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
K	67.4	2.461	+/- 5.013	27.39	ft/day
Le	85.16	2.677	+/- 5.452	31.82	ft

C.I. is approximate 95% confidence interval for parameter  
 t-ratio = estimate/std. error  
 No estimation window

K = 0.02378 cm/sec  
 T = K\*b = 6201. ft<sup>2</sup>/day (66.68 sq. cm/sec)  
 Le = 85.16 ft  
 Solution is critically damped when C(D) = 2.

Parameter Correlations

	K	Le
K	1.00	0.10
Le	0.10	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 0.8973 ft<sup>2</sup>  
 Variance ..... 0.02804 ft<sup>2</sup>  
 Std. Deviation ..... 0.1675 ft  
 Mean ..... -0.04321 ft

No. of Residuals .. 34  
No. of Estimates .. 2