

Data Set: Z:\Turkey Point FPL Units 6 and 7\Hydrogeology\Slug Test Files\OW-606L\_RHT\_BUTLER.aqt  
 Title: OW-606 L RISING HEAD TEST 5-18-08  
 Date: 06/08/16  
 Time: 09:31:00

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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: 1.817 ft  
 Static Water Column Height: 108.6 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: 43

<u>Time (sec)</u>	<u>Observation Data</u>		<u>Displacement (ft)</u>
	<u>Displacement (ft)</u>	<u>Time (sec)</u>	
0.	1.817	114.6	-0.015
2.64	0.679	124.2	-0.016
5.46	0.258	133.8	-0.013
8.46	-0.26	144.6	-0.015
11.64	-0.105	156.	-0.015
15.	0.096	168.	-0.016
18.6	-0.004	180.6	-0.017
22.2	-0.051	193.8	-0.017
26.4	0.004	208.2	-0.019
30.6	-0.01	223.2	-0.015
34.8	-0.02	238.8	-0.013
39.6	-0.011	255.6	-0.019
45.	-0.02	273.6	-0.018
49.8	-0.011	292.2	-0.023
55.8	-0.014	312.6	-0.016
61.8	-0.015	333.6	-0.022

<u>Time (sec)</u>	<u>Displacement (ft)</u>	<u>Time (sec)</u>	<u>Displacement (ft)</u>
67.8	-0.012	355.8	-0.02
74.4	-0.013	379.8	-0.022
81.6	-0.013	405.	-0.02
89.4	-0.017	431.4	-0.021
97.2	-0.018	459.6	-0.019
105.6	-0.022		

SOLUTION

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

VISUAL ESTIMATION RESULTSEstimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	30.16	ft/day
Le	58.94	ft

$K = 0.01064$  cm/sec  
 $T = K \cdot b = 2774.7$  ft<sup>2</sup>/day (29.84 sq. cm/sec)  
 $Le = 58.94$  ft  
 Solution is critically damped when  $C(D) = 2$ .

AUTOMATIC ESTIMATION RESULTSEstimated Parameters

<u>Parameter</u>	<u>Estimate</u>	<u>Std. Error</u>	<u>Approx. C.I.</u>	<u>t-Ratio</u>	
K	30.16	1.77	+/- 3.575	17.04	ft/day
Le	58.94	14.09	+/- 28.47	4.182	ft

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

$K = 0.01064$  cm/sec  
 $T = K \cdot b = 2774.7$  ft<sup>2</sup>/day (29.84 sq. cm/sec)  
 $Le = 58.94$  ft  
 Solution is critically damped when  $C(D) = 2$ .

Parameter Correlations

	<u>K</u>	<u>Le</u>
K	1.00	0.12
Le	0.12	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 0.1265 ft<sup>2</sup>  
Variance ..... 0.003085 ft<sup>2</sup>  
Std. Deviation ..... 0.05554 ft  
Mean ..... -0.01864 ft  
No. of Residuals .. 43  
No. of Estimates .. 2