

Data Set: Z:\Turkey Point FPL Units 6 and 7\Hydrogeology\Slug Test Files\OW-706L\_RHT\_BUTLER.aqt  
 Title: OW-706 L RISING HEAD TEST 5-16-08  
 Date: 06/08/16  
 Time: 11:09:57

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PROJECT INFORMATION

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

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AQUIFER DATA

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

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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

Time (sec)	Observation Data		Time (sec)	Displacement (ft)
	Displacement (ft)	Displacement (ft)		
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

<u>Time (sec)</u>	<u>Displacement (ft)</u>	<u>Time (sec)</u>	<u>Displacement (ft)</u>
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: Butler  
 Log Factor: 0.2086

VISUAL ESTIMATION RESULTSEstimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	25.09	ft/day
Le	29.71	ft

$K = 0.008851$  cm/sec  
 $T = K*b = 2077.4$  ft<sup>2</sup>/day (22.34 sq. cm/sec)  
 $Le = 29.71$  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	25.09	0.0763	+/- 0.154	328.8	ft/day
Le	29.71	1.457	+/- 2.941	20.39	ft

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

$K = 0.008851$  cm/sec  
 $T = K*b = 2077.4$  ft<sup>2</sup>/day (22.34 sq. cm/sec)  
 $Le = 29.71$  ft  
 Solution is critically damped when  $C(D) = 2$ .

Parameter Correlations

	<u>K</u>	<u>Le</u>
K	1.00	0.05
Le	0.05	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 0.001047 ft<sup>2</sup>  
Variance ..... 2.493E-5 ft<sup>2</sup>  
Std. Deviation..... 0.004993 ft  
Mean..... -0.002013 ft  
No. of Residuals .. 44  
No. of Estimates .. 2