

Data Set: Z:\Turkey Point FPL Units 6 and 7\Hydrogeology\Slug Test Files\OW-606L\_FHT\_BUTLER.aqt  
 Title: OW-606 L FALLING HEAD TEST 5-18-08  
 Date: 06/08/16  
 Time: 09:23:26

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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: 1.013 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: 48

Time (sec)	Observation Data		Displacement (ft)
	Displacement (ft)	Time (sec)	
0.	1.013	189.6	-0.011
3.601	-0.31	204.6	-0.008
7.801	-0.144	220.2	-0.005
12.	0.181	237.	-0.01
16.2	-0.123	255.	-0.012
21.	0.02	273.6	-0.01
26.4	-0.021	294.	-0.011
31.2	-0.02	315.	-0.004
37.2	-0.008	337.2	-0.004
43.2	-0.016	361.2	0.
49.2	-0.014	386.4	-0.009
55.8	-0.012	412.8	0.002
63.	-0.011	441.	0.
70.8	-0.013	471.	0.002
78.6	-0.014	502.8	-0.002
87.	-0.008	536.4	0.003

<u>Time (sec)</u>	<u>Displacement (ft)</u>	<u>Time (sec)</u>	<u>Displacement (ft)</u>
96.	-0.015	572.4	-0.001
105.6	-0.014	608.4	-0.003
115.2	-0.015	650.4	0.004
126.	-0.013	692.4	0.006
137.4	-0.012	734.4	0.004
149.4	-0.012	782.4	0.006
162.	-0.01	836.4	0.007
175.2	-0.009	884.4	0.009

SOLUTION

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

VISUAL ESTIMATION RESULTSEstimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	119.9	ft/day
Le	86.28	ft

K = 0.04231 cm/sec  
 T = K\*b = 1.103E+4 ft<sup>2</sup>/day (118.6 sq. cm/sec)  
 Le = 86.28 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	119.9	4.676	+/- 9.414	25.64	ft/day
Le	86.28	1.22	+/- 2.456	70.72	ft

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

K = 0.04231 cm/sec  
 T = K\*b = 1.103E+4 ft<sup>2</sup>/day (118.6 sq. cm/sec)  
 Le = 86.28 ft  
 Solution is critically damped when C(D) = 2.

Parameter Correlations

	<u>K</u>	<u>Le</u>
K	1.00	-0.09
Le	-0.09	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 0.01508 ft<sup>2</sup>  
Variance ..... 0.0003279 ft<sup>2</sup>  
Std. Deviation..... 0.01811 ft  
Mean ..... -0.008574 ft  
No. of Residuals .. 48  
No. of Estimates .. 2