

Data Set: Z:\Turkey Point FPL Units 6 and 7\Hydrogeology\Slug Test Files\OW-636L\_RHT\_2\_BUTLER.aqt  
 Title: OW-636 L RISING HEAD TEST # 2 5-20-08  
 Date: 06/08/16  
 Time: 10:14:58

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PROJECT INFORMATION

Company: Turkey Point  
 Client: BECHTEL  
 Project: 6468-07-1950  
 Location: Turkey Point  
 Test Date: 5-21-08  
 Test Well: OW-636 L

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AQUIFER DATA

Saturated Thickness: 88. ft  
 Anisotropy Ratio (Kz/Kr): 1.

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SLUG TEST WELL DATA

Test Well: OW-636 L

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

Initial Displacement: 5.913 ft  
 Static Water Column Height: 111.7 ft  
 Casing Radius: 0.083 ft  
 Well Radius: 0.25 ft  
 Well Skin Radius: 0.25 ft  
 Screen Length: 17.5 ft  
 Total Well Penetration Depth: 111. ft

No. of Observations: 46

<u>Observation Data</u>			
<u>Time (sec)</u>	<u>Displacement (ft)</u>	<u>Time (sec)</u>	<u>Displacement (ft)</u>
0.	5.913	41.58	0.02
0.9	5.594	44.94	0.013
1.86	4.955	48.54	0.006
2.82	4.374	52.14	0.008
3.901	3.802	56.34	0.006
5.041	3.265	60.54	0.011
6.241	2.781	64.74	0.006
7.501	2.333	69.54	0.006
8.82	1.939	74.94	0.009
10.26	1.571	79.74	-0.002
11.76	1.254	85.74	-0.002
13.45	0.972	91.74	0.
15.	0.753	97.74	0.001
16.8	0.573	104.3	0.002
18.66	0.421	111.5	0.002
20.7	0.302	119.3	0.001

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
22.8	0.217	127.1	-0.002
25.02	0.149	135.5	0.
27.42	0.106	144.5	0.004
29.94	0.074	154.1	0.008
32.58	0.045	163.7	0.003
35.4	0.019	174.5	0.003
38.4	0.016	185.9	0.

SOLUTION

Slug Test  
 Aquifer Model: Confined  
 Solution Method: Butler  
 Log Factor: 0.2024

VISUAL ESTIMATION RESULTSEstimated Parameters

Parameter	Estimate	
K	9.425	ft/day
Le	166.8	ft

$K = 0.003325$  cm/sec  
 $T = K*b = 829.4$  ft<sup>2</sup>/day (8.918 sq. cm/sec)  
 $Le = 166.8$  ft  
 Solution is critically damped when  $C(D) = 2$ .

AUTOMATIC ESTIMATION RESULTSEstimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
K	9.425	0.03559	+/- 0.07171	264.8	ft/day
Le	166.8	6.575	+/- 13.25	25.36	ft

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

$K = 0.003325$  cm/sec  
 $T = K*b = 829.4$  ft<sup>2</sup>/day (8.918 sq. cm/sec)  
 $Le = 166.8$  ft  
 Solution is critically damped when  $C(D) = 2$ .

Parameter Correlations

	K	Le
K	1.00	0.14
Le	0.14	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 0.02954 ft<sup>2</sup>  
Variance ..... 0.0006715 ft<sup>2</sup>  
Std. Deviation..... 0.02591 ft  
Mean..... -0.005007 ft  
No. of Residuals .. 46  
No. of Estimates .. 2