

Data Set: Z:\Turkey Point FPL Units 6 and 7\Hydrogeology\Slug Test Files\OW-636U\_RHT\_2\_SPRINGER-GELHA  
 Title: OW-636 U RISING HEAD TEST # 2 5-21-08  
 Date: 06/08/16  
 Time: 10:28:42

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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 U

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AQUIFER DATA

Saturated Thickness: 28.85 ft  
 Anisotropy Ratio (Kz/Kr): 1.

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SLUG TEST WELL DATA

Test Well: OW-636 U

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

Initial Displacement: 7.909 ft  
 Static Water Column Height: 28.85 ft  
 Casing Radius: 0.083 ft  
 Well Radius: 0.25 ft  
 Well Skin Radius: 0.25 ft  
 Screen Length: 17. ft  
 Total Well Penetration Depth: 29.8 ft

No. of Observations: 48

Observation Data			
Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	7.909	7.279	0.056
0.221	7.261	7.879	-0.044
0.444	6.179	8.479	-0.028
0.666	3.447	9.139	0.062
1.167	2.473	9.859	0.199
1.389	1.665	10.64	0.28
1.613	1.029	11.42	0.254
1.837	0.53	12.26	0.15
2.062	0.169	13.16	0.062
2.287	-0.073	14.12	0.075
2.512	-0.222	15.08	0.156
2.735	-0.297	16.16	0.213
2.959	-0.307	17.3	0.172
3.183	-0.266	18.5	0.103
3.408	-0.199	19.76	0.114
3.633	-0.116	21.08	0.167

<u>Time (sec)</u>	<u>Displacement (ft)</u>	<u>Time (sec)</u>	<u>Displacement (ft)</u>
3.858	-0.019	22.52	0.165
4.083	0.083	24.02	0.126
4.59	0.295	25.58	0.138
4.813	0.368	27.26	0.159
5.179	0.456	29.06	0.139
5.736	0.45	30.92	0.14
6.199	0.37	33.08	0.142
6.817	0.176	35.06	0.114

SOLUTION

Slug Test  
 Aquifer Model: Unconfined  
 Solution Method: Springer-Gelhar  
 ln(Re/rw): 3.595

VISUAL ESTIMATION RESULTS

Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	64.33	ft/day
Le	6.95	ft

K = 0.0227 cm/sec  
 T = K\*b = 1856. ft<sup>2</sup>/day (19.96 sq. cm/sec)  
 Le = 6.95 ft  
 Solution is critically damped when C(D) = 2.

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	<u>Std. Error</u>	<u>Approx. C.I.</u>	<u>t-Ratio</u>	
K	64.33	2.176	+/- 4.38	29.57	ft/day
Le	6.95	0.9157	+/- 1.843	7.59	ft

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

K = 0.0227 cm/sec  
 T = K\*b = 1856. ft<sup>2</sup>/day (19.96 sq. cm/sec)  
 Le = 6.95 ft  
 Solution is critically damped when C(D) = 2.

Parameter Correlations

	<u>K</u>	<u>Le</u>
K	1.00	-0.16
Le	-0.16	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 3.357 ft<sup>2</sup>  
Variance ..... 0.07297 ft<sup>2</sup>  
Std. Deviation..... 0.2701 ft  
Mean ..... 0.07989 ft  
No. of Residuals .. 48  
No. of Estimates .. 2