

Data Set: Z:\Turkey Point FPL Units 6 and 7\Hydrogeology\Slug Test Files\OW-636U\_RHT\_SPRINGER-GELHAR.a  
 Title: OW-636 U RISING HEAD TEST 5-21-08  
 Date: 06/08/16  
 Time: 12:17:31

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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: 9.553 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: 51

<u>Observation Data</u>			
<u>Time (sec)</u>	<u>Displacement (ft)</u>	<u>Time (sec)</u>	<u>Displacement (ft)</u>
0.	9.553	9.423	0.093
0.221	9.051	10.2	0.22
0.712	7.1	10.98	0.298
0.934	5.745	11.82	0.272
1.156	4.395	12.72	0.172
1.376	3.181	13.68	0.101
1.882	1.286	14.64	0.121
2.104	0.753	15.72	0.206
2.326	0.353	16.86	0.229
2.547	-0.158	18.06	0.183
3.082	-0.226	19.32	0.139
3.304	-0.232	20.64	0.175
3.529	-0.192	22.08	0.202
3.75	-0.071	23.58	0.176
4.186	0.019	25.14	0.164
4.411	0.112	26.82	0.181

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<u>Time (sec)</u>	<u>Displacement (ft)</u>	<u>Time (sec)</u>	<u>Displacement (ft)</u>
4.634	0.228	28.62	0.179
4.922	0.308	30.48	0.168
5.144	0.375	32.52	0.186
5.367	0.425	34.62	0.178
5.763	0.466	36.84	0.176
6.243	0.435	39.27	0.175
6.843	0.3	41.76	0.179
7.444	0.141	44.4	0.178
8.043	0.033	47.22	0.172
8.703	0.009		

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SOLUTION

Slug Test

Aquifer Model: Unconfined

Solution Method: Springer-Gelhar

ln(Re/rw): 3.595

VISUAL ESTIMATION RESULTSEstimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	50.64	ft/day
Le	17.14	ft

K = 0.01786 cm/sec

T = K\*b = 1461. ft<sup>2</sup>/day (15.71 sq. cm/sec)

Le = 17.14 ft

Solution is critically damped when C(D) = 2.