

Data Set: Z:\Turkey Point FPL Units 6 and 7\Hydrogeology\Slug Test Files\OW-621L_RHT_BUTLER.aqt
 Title: OW-621 L RISING HEAD TEST 5-17-08
 Date: 06/08/16
 Time: 10:04:39

PROJECT INFORMATION

Company: Turkey Point
 Client: BECHTEL
 Project: 6468-07-1950
 Location: Turkey Point
 Test Date: 5-17-08
 Test Well: OW-621 L

AQUIFER DATA

Saturated Thickness: 88.5 ft
 Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: OW-621 L

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

Initial Displacement: 3.011 ft
 Static Water Column Height: 108.9 ft
 Casing Radius: 0.083 ft
 Well Radius: 0.3 ft
 Well Skin Radius: 0.3 ft
 Screen Length: 15. ft
 Total Well Penetration Depth: 110. ft

No. of Observations: 40

Time (sec)	Observation Data		Displacement (ft)
	Displacement (ft)	Time (sec)	
0.	3.011	103.	0.001
2.82	1.052	112.	-0.001
5.82	0.214	121.6	0.002
9.	0.055	131.2	0.004
12.36	0.079	142.	0.005
15.96	0.01	153.4	0.003
19.56	0.008	165.4	-0.001
23.76	0.001	178.	0.001
27.96	-0.004	191.2	0.003
32.16	-0.004	205.6	0.002
36.96	-0.001	220.6	0.003
42.36	0.001	236.2	0.002
47.16	-0.003	253.	0.005
53.16	0.002	271.	0.005
59.16	0.004	289.6	0.002
65.16	0.	310.	0.005

<u>Time (sec)</u>	<u>Displacement (ft)</u>	<u>Time (sec)</u>	<u>Displacement (ft)</u>
71.76	0.001	331.	0.001
78.96	0.001	353.2	0.006
86.76	-0.003	377.2	0.007
94.56	0.001	402.4	0.003

SOLUTION

Slug Test

Aquifer Model: Confined

Solution Method: Butler

Log Factor: 0.2171

VISUAL ESTIMATION RESULTSEstimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	31.07	ft/day
Le	41.67	ft

K = 0.01096 cm/sec

T = K*b = 2749.7 ft²/day (29.57 sq. cm/sec)

Le = 41.67 ft

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