Data Set: Z:\Turkey Point FPL Units 6 and 7\Hydrogeology\Slug Test Files\OW-621L_RHT_2_BUTLER.aqt
Title: OW-621 L RISING HEAD TEST # 2 5-17-08
Date: 06/08/16
Time: 09:54:32

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: 2.103 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: 35

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	2.103	109.2	0.004
3.601	0.431	118.8	0.002
7.201	0.075	129.6	-0.001
11.4	0.078	141.	0.006
15.6	0.005	153.	-0.002
19.8	0.008	165.6	-0.002
24.6	-0.014	178.8	-0.005
30.	0.005	193.2	0.
34.8	0.003	208.2	-0.003
40.8	0.001	223.8	0.003
46.8	0.001	240.6	-0.001
52.8	0.002	258.6	-0.001
59.4	-0.003	277.2	-0.001
66.6	0.	297.6	0.003
74.4	0.003	318.6	0.003
82.2	0.003	340.8	0.005

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
90.6	0.001	364.8	0.001
99.6	0.005		

SOLUTION

Slug Test
Aquifer Model: Confined
Solution Method: Butler
Log Factor: 0.2171

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	35.72	ft/day
Le	0.1	ft

K = 0.0126 cm/sec
T = K*b = 3161.2 ft²/day (33.99 sq. cm/sec)
Le = 0.1 ft
Solution is critically damped when C(D) = 2.