

Data Set: Z:\Turkey Point FPL Units 6 and 7\Hydrogeology\Slug Test Files\OW-636L_RHT_2_KGS.aqt
 Title: OW-636 L RISING HEAD TEST # 2 5-20-08
 Date: 06/08/16
 Time: 10:17:22

PROJECT INFORMATION

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

AQUIFER DATA

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

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

Observation Data			
<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

<u>Time (sec)</u>	<u>Displacement (ft)</u>	<u>Time (sec)</u>	<u>Displacement (ft)</u>
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: KGS Model

VISUAL ESTIMATION RESULTSEstimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
Kr	10.01	ft/day
Ss	1.13E-12	ft ⁻¹
Kz/Kr	1.	

K = 0.003531 cm/sec

T = K*b = 880.9 ft²/day (9.472 sq. cm/sec)