

Data Set: Z:\Turkey Point FPL Units 6 and 7\Hydrogeology\Slug Test Files\OW-706U_FHT_KGS _2.aqt
 Title: OW-706 U RISING HEAD TEST 5-20-08
 Date: 06/08/16
 Time: 11:23:27

PROJECT INFORMATION

Company: Turkey Point
 Client: BECHTEL
 Project: 6468-07-1950
 Location: Turkey Point
 Test Date: 5-16-08
 Test Well: OW-706 U

AQUIFER DATA

Saturated Thickness: 30.66 ft
 Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: OW-706 U

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

Initial Displacement: 4.189 ft
 Static Water Column Height: 28.46 ft
 Casing Radius: 0.083 ft
 Well Radius: 0.25 ft
 Well Skin Radius: 0.25 ft
 Screen Length: 15.5 ft
 Total Well Penetration Depth: 28.9 ft

No. of Observations: 51

Time (sec)	Observation Data		Displacement (ft)
	Displacement (ft)	Time (sec)	
0.	4.189	14.45	0.017
0.237	3.841	15.59	0.033
0.487	3.002	16.79	0.032
0.737	2.036	18.05	0.018
0.987	1.284	19.37	0.018
1.237	0.755	20.81	0.022
1.487	0.42	22.31	0.027
1.847	0.146	23.87	0.021
2.207	0.007	25.55	0.021
2.627	-0.064	27.35	0.022
3.047	-0.049	29.21	0.017
3.467	-0.023	31.25	0.025
3.947	0.022	33.35	0.02
4.487	0.059	35.57	0.018
4.967	0.077	37.97	0.02
5.567	0.079	40.49	0.016

<u>Time (sec)</u>	<u>Displacement (ft)</u>	<u>Time (sec)</u>	<u>Displacement (ft)</u>
6.167	0.057	43.13	0.015
6.767	0.024	45.95	0.013
7.427	-0.01	48.95	0.017
8.147	-0.013	52.13	0.015
8.927	0.005	55.49	0.013
9.707	0.031	59.09	0.016
10.55	0.049	62.69	0.016
11.45	0.043	66.89	0.016
12.41	0.019	71.09	0.017
13.37	0.014		

SOLUTION

Slug Test

Aquifer Model: Unconfined

Solution Method: KGS Model

VISUAL ESTIMATION RESULTSEstimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
Kr	76.09	ft/day
Ss	3.205E-12	ft ⁻¹
Kz/Kr	1.	

K = 0.02684 cm/sec

T = K*b = 2332.9 ft²/day (25.09 sq. cm/sec)