

Data Set: Z:\Turkey Point FPL Units 6 and 7\Hydrogeology\Slug Test Files\OW-606U_KGS_TEST_2.aqt
 Title: OW-606 U RISING HEAD 5/20/08 TEST 2
 Date: 06/08/16
 Time: 09:42:04

PROJECT INFORMATION

Company: Turkey Point
 Client: BECHTEL
 Project: 6468-07-1950
 Location: Turkey Point
 Test Date: 5-20-08
 Test Well: OW-606 U

AQUIFER DATA

Saturated Thickness: 29.89 ft
 Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: OW-606 U

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

Initial Displacement: 3.394 ft
 Static Water Column Height: 29.89 ft
 Casing Radius: 0.083 ft
 Well Radius: 0.3 ft
 Well Skin Radius: 0.3 ft
 Screen Length: 15.17 ft
 Total Well Penetration Depth: 30.17 ft

No. of Observations: 42

Observation Data			
<u>Time (sec)</u>	<u>Displacement (ft)</u>	<u>Time (sec)</u>	<u>Displacement (ft)</u>
0.	3.394	13.84	-0.179
0.223	3.267	15.04	0.066
0.46	2.656	16.3	0.143
0.88	1.385	17.62	-0.06
1.3	0.294	19.06	-0.132
1.72	-0.448	20.56	0.038
2.2	-0.828	22.12	0.051
2.74	-0.794	23.8	-0.095
3.22	-0.484	25.6	-0.015
3.82	0.007	27.46	0.028
4.421	0.42	29.5	-0.067
5.02	0.648	31.6	0.01
5.68	0.569	33.82	-0.023
6.4	0.166	36.22	-0.033
7.18	-0.273	38.74	-0.008
7.96	-0.395	41.38	-0.036

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
8.8	-0.178	44.2	-0.012
9.7	0.155	47.2	-0.026
10.66	0.288	50.38	-0.023
11.62	0.1	53.78	-0.021
12.7	-0.194	57.34	-0.047

SOLUTION

Slug Test
 Aquifer Model: Unconfined
 Solution Method: KGS Model

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
Kr	92.02	ft/day
Ss	4.167E-12	ft ⁻¹
Kz/Kr	1.	

K = 0.03246 cm/sec
 T = K*b = 2750.5 ft²/day (29.58 sq. cm/sec)

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
Kr	92.02	15.12	+/- 30.55	6.087	ft/day
Ss	4.167E-12	3.944E-6	+/- 7.971E-6	1.056E-6	ft ⁻¹
Kz/Kr	1.	not estimated			

C.I. is approximate 95% confidence interval for parameter
 t-ratio = estimate/std. error
 No estimation window

K = 0.03246 cm/sec
 T = K*b = 2750.5 ft²/day (29.58 sq. cm/sec)

Parameter Correlations

	Kr	Ss
Kr	1.00	-0.17
Ss	-0.17	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 5.635 ft²
 Variance 0.1409 ft²
 Std. Deviation 0.3753 ft

Mean -0.01866 ft
No. of Residuals .. 42
No. of Estimates .. 2