

Data Set: Z:\Turkey Point FPL Units 6 and 7\Hydrogeology\Slug Test Files\OW-636U_RHT_2_KGS.aqt
 Title: OW-636 U RISING HEAD TEST # 2 5-21-08
 Date: 06/08/16
 Time: 10:25:09

PROJECT INFORMATION

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

AQUIFER DATA

Saturated Thickness: 28.85 ft
 Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: OW-636 U

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

Initial Displacement: 7.909 ft
 Static Water Column Height: 28.85 ft
 Casing Radius: 0.083 ft
 Well Radius: 0.25 ft
 Well Skin Radius: 0.25 ft
 Screen Length: 17. ft
 Total Well Penetration Depth: 29.8 ft

No. of Observations: 48

Observation Data			
<u>Time (sec)</u>	<u>Displacement (ft)</u>	<u>Time (sec)</u>	<u>Displacement (ft)</u>
0.	7.909	7.279	0.056
0.221	7.261	7.879	-0.044
0.444	6.179	8.479	-0.028
0.666	3.447	9.139	0.062
1.167	2.473	9.859	0.199
1.389	1.665	10.64	0.28
1.613	1.029	11.42	0.254
1.837	0.53	12.26	0.15
2.062	0.169	13.16	0.062
2.287	-0.073	14.12	0.075
2.512	-0.222	15.08	0.156
2.735	-0.297	16.16	0.213
2.959	-0.307	17.3	0.172
3.183	-0.266	18.5	0.103
3.408	-0.199	19.76	0.114
3.633	-0.116	21.08	0.167

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
3.858	-0.019	22.52	0.165
4.083	0.083	24.02	0.126
4.59	0.295	25.58	0.138
4.813	0.368	27.26	0.159
5.179	0.456	29.06	0.139
5.736	0.45	30.92	0.14
6.199	0.37	33.08	0.142
6.817	0.176	35.06	0.114

SOLUTION

Slug Test
 Aquifer Model: Unconfined
 Solution Method: KGS Model

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
Kr	79.27	ft/day
Ss	3.846E-12	ft ⁻¹
Kz/Kr	1.	

K = 0.02796 cm/sec
 T = K*b = 2286.9 ft²/day (24.59 sq. cm/sec)

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
Kr	79.27	4.534	+/- 9.128	17.48	ft/day
Ss	3.846E-12	1.58E-6	+/- 3.18E-6	2.435E-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 = 0.02796 cm/sec
 T = K*b = 2286.9 ft²/day (24.59 sq. cm/sec)

Parameter Correlations

	Kr	Ss
Kr	1.00	0.00
Ss	0.00	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 7.519 ft²
Variance 0.1634 ft²
Std. Deviation 0.4043 ft
Mean 0.06284 ft
No. of Residuals .. 48
No. of Estimates .. 2