Data Set: Z:\Turkey Point FPL Units 6 and 7\Hydrogeology\Slug Test Files\OW-721U_RHT_KGS.aqt
Title: OW-721 U RISING HEAD 5-20-08
Date: 06/08/16
Time: 12:08:15

PROJECT INFORMATION

Company: Turkey Point
Client: BECHTEL
Project: 6468-07-1950
Location: Turkey Point
Test Date: 5-20-08
Test Well: OW-721 U

AQUIFER DATA

Saturated Thickness: 24.37 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: OW-721 U

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

Initial Displacement: 10.88 ft
Static Water Column Height: 24.37 ft
Casing Radius: 0.083 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 16.1 ft
Total Well Penetration Depth: 26. ft

No. of Observations: 44

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	10.88	11.07	0.169
0.221	9.815	12.04	0.152
0.441	8.698	12.99	0.155
0.661	7.787	14.07	0.158
0.883	7.078	15.22	0.15
1.115	6.43	16.41	0.149
1.475	5.567	17.68	0.15
1.835	4.863	19.	0.143
2.255	4.129	20.43	0.148
2.675	3.494	21.93	0.145
3.095	2.973	23.5	0.148
3.575	2.447	25.18	0.149
4.115	1.966	26.98	0.144
4.595	1.599	28.84	0.144
5.195	1.234	30.88	0.146
5.795	0.942	32.98	0.147

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
6.395	0.71	35.2	0.148
7.055	0.53	37.59	0.145
7.775	0.381	40.12	0.144
8.555	0.278	42.76	0.147
9.335	0.219	45.58	0.148
10.18	0.187	48.58	0.124

SOLUTION

Slug Test
Aquifer Model: Unconfined
Solution Method: KGS Model

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
Kr	32.47	ft/day
Ss	2.056E-6	ft^{-1}
Kz/Kr	1.	

K = 0.01145 cm/sec
T = K*b = 791.2 ft^2/day (8.508 sq. cm/sec)

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
Kr	32.47	0.3589	+/- 0.7243	90.45	ft/day
Ss	2.056E-6	4.824E-7	+/- 9.736E-7	4.261	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 = 0.01145 cm/sec
T = K*b = 791.2 ft^2/day (8.508 sq. cm/sec)

Parameter Correlations

	Kr	Ss
Kr	1.00	-0.50
Ss	-0.50	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 0.5427 ft^2
Variance ..... 0.01292 ft^2

Std. Deviation . . . . . 0.1137 ft
Mean . . . . . 0.06316 ft
No. of Residuals . . 44
No. of Estimates . . 2