Data Set: Z:\Turkey Point FPL Units 6 and 7\Hydrogeology\Slug Test Files\OW-735U_FHT_KGS.aqt
Title: OW-735 U FALLING HEAD TEST 5-15-08
Date: 06/08/16
Time: 13:19:04

PROJECT INFORMATION

Company: MACTEC
Client: Bechtel
Project: 6468-07-1950
Location: Turkey Point COL
Test Date: 5/15/2008
Test Well: OW-735 U

AQUIFER DATA

Saturated Thickness: 26.45 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: OW-735 U

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

Initial Displacement: 0.553 ft
Static Water Column Height: 26.45 ft
Casing Radius: 0.083 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 16. ft
Total Well Penetration Depth: 28. ft

No. of Observations: 42

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
0.	0.553	83.64	-0.006
2.1	0.063	90.84	-0.003
4.32	-0.327	98.64	-0.005
6.72	0.282	106.4	-0.005
9.239	-0.249	114.8	-0.005
11.88	0.176	123.8	-0.001
14.7	-0.122	133.4	-0.005
17.7	0.051	143.	-0.007
20.88	0.001	153.8	-0.006
24.24	-0.037	165.2	-0.002
27.84	0.023	177.2	0.
31.44	-0.006	189.8	-0.008
35.64	-0.019	203.	-0.006
39.84	-0.005	217.4	0.
44.04	-0.004	232.4	-0.001
48.84	-0.002	248.	-0.003
54.24	-0.002	264.8	-0.006
59.04	-0.003	282.8	-0.005
65.04	-0.004	301.4	-0.002
71.04	-0.008	321.8	0.004
77.04	-0.006	342.8	0.016

SOLUTION

Slug Test
Aquifer Model: Unconfined

Solution Method: KGS Model

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
Kr	109.5	ft/day
Ss	3.846E-12	ft^{-1}
Kz/Kr	1.	

K = 0.03864 cm/sec
T = K*b = 2897.2 ft²/day (31.15 sq. cm/sec)

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
Kr	109.5	2751.5	+/- 5560.8	0.03981	ft/day
Ss	3.846E-12	0.001143	+/- 0.002311	3.364E-9	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 = 0.03864 cm/sec
T = K*b = 2897.2 ft²/day (31.15 sq. cm/sec)

Parameter Correlations

	Kr	Ss
Kr	1.00	1.00
Ss	1.00	1.00

Residual Statistics

for weighted residuals

Sum of Squares. . . 0.3019 ft^2
Variance . . . . . 0.007548 ft^2
Std. Deviation . . . . . 0.08688 ft
Mean . . . . . -0.006734 ft
No. of Residuals . . 42
No. of Estimates . . 2