Data Set: Z:\GW Data Steward Working Area\Kissimmee River Groundwater Effort\KRR Pool C Slug Test Data\KR
Date: 06/02/16
Time: 12:17:04

PROJECT INFORMATION

Company: SFWMD
Client: SFWMD
Test Date: 1/15/1997
Test Well: KRBNND

AQUIFER DATA

Saturated Thickness: 160. ft
Anisotropy Ratio (Kz/Kr): 0.25

SLUG TEST WELL DATA

Test Well: KRBNND

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

Initial Displacement: 3.43 ft
Static Water Column Height: 91.12 ft
Casing Radius: 0.0833 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 4. ft
Total Well Penetration Depth: 91.12 ft
Corrected Casing Radius (Bouwer-Rice Method): 0.0833 ft
Gravel Pack Porosity: 0.

No. of Observations: 66

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.0833	1.	1.833	0.008746
0.1	0.8513	1.917	0.005831
0.1166	0.793	2.	0.005831
0.1333	0.7405	2.5	0.005831
0.15	0.6939	3.	0.005831
0.1666	0.6472	3.5	0.005831
0.1833	0.6064	4.	0.002915
0.2	0.5656	4.5	0.002915
0.2166	0.5306	5.	0.002915
0.2333	0.4956	5.5	0.005831
0.25	0.4665	6.	0.005831
0.2666	0.4373	6.5	0.002915
0.2833	0.4082	7.	0.002915
0.3	0.3848	7.5	0.002915
0.3166	0.3586	8.	0.002915
0.3333	0.3382	8.5	0.002915
0.4167	0.2449	9.	0.002915

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.5	0.1837	9.5	0.
0.5833	0.1341	10.	0.
0.6667	0.102	11.	0.
0.75	0.07872	12.	0.
0.8333	0.05831	13.	0.
0.9167	0.04373	14.	0.
1.	0.0379	15.	0.
1.083	0.02915	16.	0.
1.167	0.02332	17.	0.
1.25	0.02041	18.	0.002915
1.333	0.01749	19.	0.002915
1.417	0.01458	20.	0.002915
1.5	0.01166	21.	0.
1.583	0.01166	22.	0.
1.667	0.01166	23.	0.
1.75	0.008746	24.	0.

SOLUTION

Slug Test
Aquifer Model: Confined
Solution Method: Bouwer-Rice
ln(Re/rw): 2.366

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	15.78	ft/day
y0	1.299	ft

K = 0.005566 cm/sec
T = K*b = 2524.3 ft²/day (27.14 sq. cm/sec)

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
K	15.78	0.2337	+/- 0.467	67.5	ft/day
y0	1.299	0.01476	+/- 0.02949	88.01	ft

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

K = 0.005566 cm/sec
T = K*b = 2524.3 ft²/day (27.14 sq. cm/sec)

Parameter Correlations

	K	y0

K	1.00	0.90
y0	0.90	1.00

Residual Statistics

for weighted residuals

Sum of Squares. . . 0.009805 ft^2
Variance . . . . . 0.0001532 ft^2
Std. Deviation . . . . . 0.01238 ft
Mean . . . . . 0.003723 ft
No. of Residuals . . 66
No. of Estimates . . 2