

Data Set: Z:\GW Data Steward Working Area\Kissimmee River Groundwater Effort\KRR Pool C Slug Test Data\KR  
 Date: 06/02/16  
 Time: 12:03:28

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PROJECT INFORMATION

Company: SFWMD  
 Test Date: 1/13/97  
 Test Well: KRAFFM

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AQUIFER DATA

Saturated Thickness: 63.9 ft  
 Anisotropy Ratio (Kz/Kr): 0.25

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SLUG TEST WELL DATA

Test Well: KRAFFM

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

Initial Displacement: 3.04 ft  
 Static Water Column Height: 30.12 ft  
 Casing Radius: 0.083 ft  
 Well Radius: 0.25 ft  
 Well Skin Radius: 0.25 ft  
 Screen Length: 4. ft  
 Total Well Penetration Depth: 30.12 ft  
 Corrected Casing Radius (Bouwer-Rice Method): 0.1342 ft  
 Gravel Pack Porosity: 0.2

No. of Observations: 69

Observation Data			
Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.0266	1.	1.583	0.5902
0.03	0.9607	1.667	0.577
0.0333	0.9672	1.75	0.5672
0.05	0.941	1.833	0.5508
0.0666	0.9541	1.917	0.5344
0.0833	0.9607	2.	0.5213
0.1	0.9344	2.5	0.4525
0.1166	0.9246	3.	0.3934
0.1333	0.9246	3.5	0.3377
0.15	0.918	4.	0.2918
0.1666	0.9115	4.5	0.2525
0.1833	0.9082	5.	0.2197
0.2	0.9049	5.5	0.1902
0.2166	0.8984	6.	0.1639
0.2333	0.8918	6.5	0.1443
0.25	0.8852	7.	0.1213
0.2666	0.882	7.5	0.1082
0.2833	0.8754	8.	0.0918

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.3	0.8689	8.5	0.07869
0.3166	0.8689	9.	0.06885
0.3333	0.8656	9.5	0.05902
0.4167	0.8393	10.	0.05246
0.5	0.8164	11.	0.03934
0.5833	0.7967	12.	0.02951
0.6667	0.7738	13.	0.01967
0.75	0.7541	14.	0.01311
0.8333	0.7377	15.	0.009836
0.9167	0.7213	16.	0.003279
1.	0.7016	17.	0.003279
1.083	0.6885	18.	0.003279
1.167	0.6689	19.	0.003279
1.25	0.6525	20.	0.003279
1.333	0.6361	21.	0.
1.417	0.623	22.	0.
1.5	0.6066		

SOLUTION

Slug Test  
 Aquifer Model: Unconfined  
 Solution Method: Bouwer-Rice  
 ln(Re/rw): 2.855

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	2.796	ft/day
y0	0.9604	ft

K = 0.0009865 cm/sec  
 T = K\*b = 178.7 ft<sup>2</sup>/day (1.921 sq. cm/sec)

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
K	2.796	0.01932	+/- 0.03855	144.8	ft/day
y0	0.9604	0.00197	+/- 0.003932	487.5	ft

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

K = 0.0009865 cm/sec  
 T = K\*b = 178.7 ft<sup>2</sup>/day (1.921 sq. cm/sec)

Parameter Correlations

	<u>K</u>	<u>y0</u>
K	1.00	0.58
y0	0.58	1.00

Residual Statistics

for weighted residuals

Sum of Squares... 0.005145 ft<sup>2</sup>  
Variance ..... 7.68E-5 ft<sup>2</sup>  
Std. Deviation ..... 0.008763 ft  
Mean ..... 0.0006615 ft  
No. of Residuals .. 69  
No. of Estimates .. 2