

Data Set: Z:\GW Data Steward Working Area\Kissimmee River Groundwater Effort\KRR Pool C Slug Test Data\KR  
Date: 06/02/16  
Time: 12:35:26

PROJECT INFORMATION

Company: SFWMD  
Client: SFWMD  
Test Date: 1/13/1997  
Test Well: KRCFFS

AQUIFER DATA

Saturated Thickness: 33.16 ft  
Anisotropy Ratio (Kz/Kr): 0.25

SLUG TEST WELL DATA

Test Well: KRCFFS

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

Initial Displacement: 2.67 ft  
Static Water Column Height: 16.14 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: 18.4 ft  
Corrected Casing Radius (Bouwer-Rice Method): 0.083 ft  
Gravel Pack Porosity: 0.

No. of Observations: 62

<u>Observation Data</u>			
<u>Time (min)</u>	<u>Displacement (ft)</u>	<u>Time (min)</u>	<u>Displacement (ft)</u>
0.0233	1.	1.167	0.01124
0.0266	0.9888	1.25	0.01124
0.03	0.9888	1.333	0.007491
0.0333	0.9775	1.417	0.007491
0.05	0.8614	1.5	0.007491
0.0666	0.7753	1.583	0.007491
0.0833	0.6966	1.667	0.003745
0.1	0.6292	1.75	0.003745
0.1166	0.5618	1.833	0.003745
0.1333	0.5131	1.917	0.003745
0.15	0.4607	2.	0.003745
0.1666	0.4157	2.5	0.003745
0.1833	0.3783	3.	0.003745
0.2	0.3446	3.5	0.
0.2166	0.3109	4.	0.003745
0.2333	0.2846	4.5	0.
0.25	0.2622	5.	0.003745

<u>Time (min)</u>	<u>Displacement (ft)</u>	<u>Time (min)</u>	<u>Displacement (ft)</u>
0.2666	0.236	5.5	0.
0.2833	0.2135	6.	0.
0.3	0.1985	6.5	0.
0.3166	0.1798	7.	0.
0.3333	0.1648	7.5	0.
0.4167	0.1086	8.	0.
0.5	0.07116	8.5	0.
0.5833	0.05243	9.	0.
0.6667	0.03745	9.5	0.
0.75	0.02996	10.	0.
0.8333	0.02247	11.	0.
0.9167	0.01873	12.	0.
1.	0.01498	13.	0.
1.083	0.01124	14.	0.

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SOLUTION

Slug Test  
 Aquifer Model: Unconfined  
 Solution Method: Bouwer-Rice  
 ln(Re/rw): 2.781

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VISUAL ESTIMATION RESULTS

Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	20.82	ft/day
y0	1.164	ft

K = 0.007343 cm/sec  
 T = K\*b = 690.2 ft<sup>2</sup>/day (7.422 sq. cm/sec)