

Data Set: Z:\GW Data Steward Working Area\Kissimmee River Groundwater Effort\KRR Pool C Slug Test Data\KR
Date: 06/02/16
Time: 12:36:54

PROJECT INFORMATION

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

AQUIFER DATA

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

SLUG TEST WELL DATA

Test Well: KRCNND

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

Initial Displacement: 3.95 ft
Static Water Column Height: 78.49 ft
Casing Radius: 0.0833 ft
Well Radius: 0.25 ft
Well Skin Radius: 0.25 ft
Screen Length: 74.49 ft
Total Well Penetration Depth: 74.49 ft
Corrected Casing Radius (Bouwer-Rice Method): 0.0833 ft
Gravel Pack Porosity: 0.

No. of Observations: 63

Observation Data			
<u>Time (min)</u>	<u>Displacement (ft)</u>	<u>Time (min)</u>	<u>Displacement (ft)</u>
0.03	1.	1.417	0.05823
0.0333	0.9797	1.5	0.05063
0.05	0.881	1.583	0.04304
0.0666	0.8608	1.667	0.03797
0.0833	0.8278	1.75	0.03544
0.1	0.7924	1.833	0.03291
0.1166	0.762	1.917	0.03038
0.1333	0.7316	2.	0.02785
0.15	0.7013	2.5	0.01772
0.1666	0.6759	3.	0.01013
0.1833	0.6532	3.5	0.01013
0.2	0.6278	4.	0.007595
0.2166	0.6051	4.5	0.005063
0.2333	0.5823	5.	0.005063
0.25	0.562	5.5	0.005063
0.2666	0.5392	6.	0.005063
0.2833	0.5215	6.5	0.005063

<u>Time (min)</u>	<u>Displacement (ft)</u>	<u>Time (min)</u>	<u>Displacement (ft)</u>
0.3	0.5013	7.	0.005063
0.3166	0.4835	7.5	0.005063
0.3333	0.4658	8.	0.002532
0.4167	0.3899	8.5	0.002532
0.5	0.3241	9.	0.002532
0.5833	0.2709	9.5	0.002532
0.6667	0.2304	10.	0.002532
0.75	0.1949	11.	0.002532
0.8333	0.1646	12.	0.002532
0.9167	0.1418	13.	0.
1.	0.1215	14.	0.
1.083	0.1038	15.	0.
1.167	0.08861	16.	0.
1.25	0.07848	17.	0.
1.333	0.06835		

SOLUTION

Slug Test
 Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 ln(Re/rw): 4.773

VISUAL ESTIMATION RESULTS

Estimated Parameters

<u>Parameter</u>	<u>Estimate</u>	
K	0.7217	ft/day
y0	1.004	ft

K = 0.0002546 cm/sec
 T = K*b = 115.5 ft²/day (1.242 sq. cm/sec)