

Appendix N

Single-Well Response Tests Technical Memorandum



DRAFT TECHNICAL MEMORANDUM

TO: Clint Babcock REF. NO.: 007843-A6-403
FROM: Mike Mateyk, Brad Trytten/ev/67 DATE: May 21, 2013
RE: **Single-Well Response Test Results**
Occidental Chemical Corporation, Tacoma, Washington

1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) has prepared this Technical Memorandum to present the results of the single-well response (slug) testing at the former Occidental Chemical Corporation facility in Tacoma, Washington (Site). The purpose of the slug testing was to determine baseline hydraulic conductivity values for all standard monitoring wells installed as part of the Comprehensive Supplemental Investigation Work Plan (Work Plan), and to determine new baseline hydraulic conductivity values for all existing standard wells redeveloped for Event 3 groundwater sampling (Summer 2012). The slug testing and data analysis were conducted in accordance with Section 4.5 of the Work Plan. A total of 49 existing wells and 44 newly installed wells were slug tested after the completion of the Event 3 hydraulic monitoring program.

2.0 METHODOLOGY

2.1 DATA COLLECTION

A slug test involves a rapid displacement of the water column in a well, with monitoring of the water level recovery back to near-static conditions. The slug tests at the Site utilized solid polyvinyl chloride (PVC) slugs of known dimensions to displace the water column. Typically, smaller volume slugs were used to slug test wells where the soil descriptions indicated a high proportion of silt and/or clay, where the soil materials were expected to be of lower hydraulic conductivity with a subsequent longer duration slug test. Where sandy materials were present, larger volume slugs were used to increase the duration of the slug test in expected high hydraulic soil materials.

The slug was rapidly inserted into the water column in the well to produce a near-instantaneous rise in water level (falling head slug test). Following the recovery of the water level to near-static conditions, the slug was rapidly removed from the water column to produce a near-instantaneous drop in the water level (rising head slug test). The slug tests were repeated to obtain several representative falling head and rising head slug tests at each tested location.

The slug test water level data were recorded on Solinst Levellogger ® Edge pressure transducers. The transducers were programmed to record pressures in feet of water column, and time of day in either 0.5 or 1.0 second intervals. A short period of pre-test and post-test monitoring was also collected to observe tidal changes and possible tidal effects on the slug test data. All slug test data were reviewed for data quality in the field.

2.2 DATA REVIEW AND DATA REDUCTION

The slug test data were graphed for further review. The data review included identifying data spikes and anomalies, and the potential effects of the changing tides on the water level data. For locations with rapidly recovering water levels (e.g., recovery to near-static in a few minutes), the tidal effect was minimal and no data corrections were required. For locations with slow recovery (e.g., recovery to near-static in tens of minutes to hours), data corrections were completed where required. These data corrections involved mathematically fitting a polynomial to the portions of the slug test data relatively unaffected by the slug tests. The polynomial was removed from the entire slug test data set, leaving a slug test data set centered on approximately 0 feet displacement.

2.3 DATA ANALYSIS

The slug test data were mathematically converted to elapsed time (in seconds or minutes) and displacement from static water levels. The slug test data were analyzed using the software program AQTESOLV (v.4.50) (Hydrosolve, Inc.). Input parameters for the data analysis for each well were determined based on stratigraphic logs and field measurements. The key input parameters are presented in Table 1.

A number of assumptions were required to be made, based on professional judgment and overall understanding of fluid flow dynamics during slug tests. These assumptions included:

- Horizontal to vertical hydraulic conductivity ratio of 10:1
- Aquifer thickness equal to sand pack thickness unless other aquifer thicknesses required
- Measured well depths at time of slug testing used, except where anomalous
- Where measured well depths were within the screened interval well and sand pack were assumed to be plugged with precipitate
- Full well development of sand pack and well screen
- If measured well bottom is within a sump below the bottom of the screened interval, assumed to be sediment, and sand pack thickness is unaffected

Other standard assumptions for data analysis include aquifer homogeneity, infinite areal extent, uniform thickness, no aquifer storage and instantaneous displacements.

The analytical solution used for data analysis were:

- Bouwer & Rice (1976) for most wells
- Dagan (1978) for wells with the static water level in the screened interval
- Butler (1998) for wells displaying inertial (oscillatory) water level response

3.0 SLUG TEST RESULTS

The results of the individual slug tests are presented in Table 2 along with the geometric mean of the results for each location. The general soil type in the screened interval is also listed in this table. The hydraulic conductivities vary from approximately 10^{-5} to 10^{-2} centimeter per second (cm/sec). The individual slug test plots are presented in Attachment 1.

TABLE 1
SUMMARY OF INPUT PARAMETERS FOR ANALYSIS OF SINGLE-WELL RESPONSE TEST DATA
AQUIFER TESTING TECHNICAL MEMORANDUM
COMPREHENSIVE SUPPLEMENTAL INVESTIGATION
OCCIDENTAL CHEMICAL CORPORATION, TACOMA, WA

Well ID	Aquifer Condition Confined/Unconfined	Top	Bottom	Aquifer Saturated Thickness (feet)	Installed Screen Interval (ft bgs)		Installed Sand Pack Interval (ft bgs)		Measured Depth To Well Well Bottom (ft bgs)	Aquifer Saturated Thickness (ft bgs)		Hydraulically Responsive Screen Interval (ft bgs)		Casing Radius (feet)	Borehole Radius (feet)	Static Water Level (ft bgs)	Water Column Height (feet)	Initial Displacement (feet)					
		Confining Unit Bottom Depth (ft bgs)	Confining Unit Top Depth (ft bgs)		Top	Bottom	Top	Bottom		Top	Bottom	Top	Bottom										
3-25	confined	19	23	4.00	20	-	25	14	-	25	22.73	19	-	23	20	-	22.73	0.0835	0.3438	8.47	14.26	1.25	aquifer interval
5-25	confined	17.7	--	6.38	20	-	25	15	-	25	24.08	17.7	-	24.08	20	-	24.08	0.0835	0.3438	8.51	15.57	1.688	bottom of upper confining unit to bottom of sand pack
5-75	confined	--	--	8.9	69.2	-	74.2	66.8	-	75.7	75.70	66.8	-	75.7	69.2	-	74.2	0.0835	0.3438	11.07	63.13	3.375	top of sand pack to scale
5-100	confined	--	--	5.81	95	-	100	91	-	100	96.81	91	-	96.81	95	-	96.81	0.0835	0.3438	10.32	86.49	3.375	top of sand pack to scale
6A-50	confined	--	--	9.65	45	-	50	38	-	50	47.65	38	-	47.65	45	-	47.65	0.0835	0.3438	8.46	39.19	1.688	top of sand pack to scale
6A-100	confined	--	--	5.11	94.91	-	99.91	91.5	-	100.5	96.61	91.5	-	96.61	94.91	-	96.61	0.0835	0.3438	12.73	83.88	2.5	top of sand pack to scale
7-100	confined	--	--	9.98	95	-	100	88	-	100	97.98	88	-	97.98	95	-	97.98	0.0835	0.3438	12.62	85.39	3.375	top of sand pack to scale
7-181	confined	--	--	8.77	176	-	181	173	-	183	181.77	173	-	181.77	176	-	181	0.0835	0.25 (assumed)	6.19	174.81	1.688	screened interval
8-23	confined	--	--	5.53	18	-	23	16	-	23	21.53	16	-	21.53	18	-	21.53	0.0835	0.3438	7.74	13.79	1.688	top of sand pack to scale
9-100	confined	--	--	6.23	95	-	100	92	-	100	98.23	92	-	98.23	95	-	98.23	0.0835	0.3438	10.28	87.95	1.688	top of sand pack to scale
10-24	confined	--	--	5.31	19	-	24	16	-	24	21.31	16	-	21.31	19	-	21.31	0.0835	0.3438	6.26	15.05	2.5	top of sand pack to scale
10-50	Non-responsive	--	--	--	--	-	--	--	-	--	--	--	-	--	--	-	--	--	--	--	--	--	--
10-100	Non-responsive	--	--	--	--	-	--	--	-	--	--	--	-	--	--	-	--	--	--	--	--	--	--
11-45	confined	--	--	16.19	35	-	45	28	-	48	44.19	28	-	44.19	35	-	44.19	0.167	0.333	12.90	31.29	0.844	top of sand pack to scale
11-75	confined	--	--	8	70.4	-	75.4	67.4	-	75.4	76.77	67.4	-	75.4	70.4	-	75.4	0.0835	0.25	11.66	63.74	1.688	sand pack
12-75	confined	--	73.4	10.4	66.75	-	71.75	63	-	75	73.32	63	-	43.4	66.75	-	73.4	0.0835	0.25	9.25	62.50	1.688	top of sand pack to bottom of aquifer
14-25R	confined	--	--	9	19.5	-	24.5	16.5	-	35.5	25.04	16.5	-	25.5	19.5	-	25.5	0.0835	0.333	9.16	15.34	3.375	sand pack
14-50R	confined	--	--	9	46.5	-	51.5	43.5	-	52.5	53.42	43.5	-	52.5	46.5	-	51.5	0.0835	0.333	9.89	41.61	3.375	sand pack
15-120	confined	--	--	6.9	114.3	-	119.3	110.3	-	120.8	114.2	110.3	-	117.2	114.3	-	117.2	0.0835	0.25	14.86	102.34	3.375	bottom assumed at base of 3 ft long pump stuck in well
18-50R	confined	--	--	4.75	45	-	50	42	-	51.75	46.75	42	-	46.75	45	-	46.75	0.0835	0.333	10.05	36.70	1.688	top of sand pack to scale
22-50	Non-responsive	--	--	--	--	-	--	--	-	--	--	--	-	--	--	-	--	--	--	--	--	--	--
23-25R	confined	--	--	9.5	19.5	-	24.5	16.5	-	26	25.68	16.5	-	26	19.5	-	26	0.0835	0.333	10.56	13.94	3.375	sand pack
24-15	unconfined	--	--	7.39	8.5	-	13.5	6.25	-	15	14.28	7.61	-	15	8.5	-	13.5	0.0835	0.333	7.61	5.89	1.688	saturated sand pack
24-35	confined	--	--	6.43	30	-	35	27	-	35	33.43	27	-	33.43	30	-	33.43	0.0835	0.3438	10.94	22.49	2.5	top of sand pack to scale
24-50	confined	--	--	5.23	44.5	-	49.5	43	-	51.5	48.23	43	-	48.23	44.5	-	48.23	0.0835	0.3438	10.24	37.99	1.688	top of sand pack to scale
34-25R	confined	--	--	8	19.5	-	24.5	16.5	-	24.5	25.61	16.5	-	24.5	19.5	-	24.5	0.0835	0.25	10.50	14.00	3.375	sand pack
34-50R	confined	--	--	8	43.75	-	48.75	40.75	-	48.75	49.78	40.75	-	48.75	43.75	-	48.75	0.0835	0.25	10.80	37.95	3.375	sand pack
34-75R	confined	--	--	8.3	69.3	-	74.3	66	-	74.3	74.86	66	-	74.3	69.3	-	74.3	0.0835	0.25	10.94	63.36	3.375	sand pack
35-25	confined	19.5	--	7	20	-	25	17.5	-	26.5	26.80	19.5	-	26.5	20	-	25	0.0835	0.3438	9.88	15.12	1.25	bottom of upper confining unit to bottom of sand pack
35-100R	confined	--	--	11	93.5	-	98.5	89	-	100	99.65	89	-	100	93.5	-	98.5	0.0835	0.25	11.15	87.35	3.375	sand pack
40-25	confined	--	--	5.63	18.5	-	23.5	15	-	25	18.63	15	-	18.63	18.5	-	18.63	0.0835	0.25	8.39	10.24	3.375	top of sand pack to scale
40-50	confined	--	--	4.81	43.5	-	48.5	39.8	-	51	44.61	39.8	-	44.61	43.5	-	44.61	0.0835	0.333	10.79	33.82	2.5	top of sand pack to scale, low flow measured bottom depth
40-75	confined	--	--	9.7	71.2	-	76.2	67.1	-	76.8	76.93	67.1	-	76.8	71.2	-	76.2	0.0835	0.25	11.17	65.03	1.688	sand pack
40-100R	confined	--	--	6.63	93.5	-	98.5	90	-	100	96.63	90	-	96.63	93.5	-	96.63	0.0835	0.333	10.18	86.45	1.688	top of sand pack to scale
41C-130	confined	--	--	7.8	121.6	-	126.5	119	-	126.8	126.55	119	-	126.8	121.6	-	126.5	0.0835	0.25	10.00	116.50	3.375	sand pack
42-25	confined	--	--	11	18.5	-	23.5	15	-	26	24.74	15	-	26	18.5	-	23.5	0.0835	0.333	8.81	14.69	1.688	sand pack
42-50	confined	--	45	5	43.5	-	48.5	40	-	52	50.56	40	-	45	43.5	-	45	0.0835	0.333	10.74	34.26	3.375	top of sand pack to top of lower confining unit
44-25	confined	--	--	11.5	18.5	-	23.5	13.5	-	25	24.37	13.5	-	25	18.5	-	23.5	0.0835	0.3475	8.40	15.10	3.375	sand pack
44-50	confined	--	--	8.42	43.5	-	48.5	40	-	52	48.42	40	-	48.42	43.5	-	48.42	0.0835	0.333	11.48	36.94	1.688	top of sand pack to scale
45-50	Non-responsive	--	--	--	--	-	--	--	-	--	--	--	-	--	--	-	--	--	--	--	--	--	--
49-15	unconfined	--	--	8.19	5	-	15	3.5	-	16	15.43	7.81	-	16	7.81	-	15	0.0835	0.333	7.81	7.19	1.688	water table to bottom of sand pack
50-15	confined	--	--	5.69	5.82	-	15.82	3.5	-	16	11.92	6.23	-	11.92	6.23	-	11.92	0.0835	0.333	6.23	5.69	1.688	water table to scale
52-15	confined	--	--	8.19	5.11	-	15.11	3	-	16	15.03	6.84	-	15.03	6.84	-	15.03	0.0835	0.333	6.84	8.19	3.375	water table to scale
65-100	confined	--	--	8.45	95	-	100	91	-	101.5	99.45	91	-	99.45	95	-	99.45	0.0835	0.3542	8.38	91.07	3.375	top of sand pack to scale
70-25	Non-responsive	--	--	--	--	-	--	--	-	--	--	--	-	--	--	-	--	--	--	--	--	--	--
74-50	confined	--	--	13.8	45	-	50	37.7	-	51.5	51.46	37.7	-	51.5	45	-	50	0.0835	0.3542	10.65	39.35	3.375	sand pack
74-75	confined	--	--	9	70	-	75	67.5	-	76.5	75.98	67.5	-	76.5	70	-	75	0.0835	0.3542	9.08	65.92	0.766	sand pack
74-100	Non-responsive	--	--	--	--	-	--	--	-	--	--	--	-	--	--	-	--	--	--	--	--	--	--
75-50	confined	--	--	7.25	45	-	50	40	-	50	47.25	40	-	47.25	45	-	47.25	0.0835	0.333	10.21	37.04	3.375	top of sand pack to scale
75-75	confined	--	--	10.5	70	-	75	66	-	76.5	76.50	66	-	76.5	70	-	75	0.0835	0.3542	12.38	62.62	3.375	sandpack
75-130	confined	--	--	5.54	125	-	130	122.5	-	131.5	128.04	122.5	-	128.04	125	-	128.04	0.0835	0.3542	9.34	118.7	1.688	top of sand pack to scale
81-50	confined	--	--	11	45	-	50	41	-	52	52.06	41	-	52	45	-	50	0.0835	0.333	10.69	39.31	3.375	sand pack
89C-25	confined	--	--	9.8	20.74	-	25.74	16	-	25.8	26.79	16	-	25.8	20.74	-	25.74	0.0835	0.25	10.53	15.21	1.688	low flow measured bottom, sand pack interval
89C-50	confined	--	--	9.6	45	-	50	41.1	-	50.7	51.73	41.1	-	50.7	45	-	50	0.0835	0.25	11.06	38.94	1.688	low flow measured bottom, sand pack interval

TABLE 1
SUMMARY OF INPUT PARAMETERS FOR ANALYSIS OF SINGLE-WELL RESPONSE TEST DATA
AQUIFER TESTING TECHNICAL MEMORANDUM
COMPREHENSIVE SUPPLEMENTAL INVESTIGATION
OCCIDENTAL CHEMICAL CORPORATION, TACOMA, WA

Well ID	Aquifer Condition Confined/Unconfined	Top	Bottom	Aquifer Saturated Thickness (feet)	Installed Screen Interval (ft bgs)		Installed Sand Pack Interval (ft bgs)		Measured Depth To Well Well Bottom (ft bgs)	Aquifer Saturated Thickness (ft bgs)	Hydraulically Responsive Screen Interval (ft bgs)		Casing Radius (feet)	Borehole Radius (feet)	Static Water Level (ft bgs)	Water Column Height (feet)	Initial Displacement (feet)		
		Bottom Depth (ft bgs)	Confining Unit Top Depth (ft bgs)		Top	Bottom	Top	Bottom			Top	Bottom							
89C-75	confined	--	--	8.26	70.12	- 75.12	66	- 74.26	74.26	66	- 74.26	70.12	- 74.26	0.0835	0.25	10.72	63.54	1.688	low flow measured bottom, sand pack interval
95-15	unconfined	--	--	8.79	4.4	- 14.4	2.4	- 16	15.85	7.21	- 16	7.21	- 14.4	0.0835	0.25	7.21	7.19	3.375	water table to bottom of sand pack
PZ-SHI-2-100	confined	--	100.02 (1)	10.48	94.72	- 99.72	89.72	- 102.22	100.04	89.72	- 100.2	94.72	- 99.72	0.0835	0.3542	9.85	90.19	2.5	top of sand pack to top of lower confining unit
T3-50	confined	--	--	8.5	43.5	- 48.5	41.5	- 50	48.97	41.5	- 50	43.5	- 48.5	0.0835	0.333	8.16	40.34	3.375	sand pack
T5-120	confined	--	--	7.96	113	- 118	109.3	- 120	117.26	109.3	- 117.26	113	- 117.26	0.0835	0.25	17.54	99.72	3.375	sand pack to scale
709-MW06-25	confined	19	--	7.8	20.3	- 25.3	16	- 26.8	25.24	19	- 26.8	20.3	- 25.3	0.0835	0.25	9.09	16.21	3.375	bottom of upper confining unit to bottom of sand pack
709-MW06-50	confined	--	--	9.7	44.3	- 49.3	41.3	- 51	50.64	41.3	- 51	44.3	- 49.3	0.0835	0.25	8.61	40.69	3.375	sand pack
709-MW09-25	confined	--	--	8.8	19.4	- 24.4	17.2	- 26	25.27	17.2	- 26	19.4	- 24.4	0.0835	0.25	8.99	15.41	3.375	sand pack
709-MW11-25	confined	--	--	9.2	19.3	- 24.3	17.3	- 26.5	25.34	97.3	- 26.5	19.3	- 24.3	0.0835	0.25	7.35	16.95	3.375	sand pack
709-MW15-15	unconfined	--	--	8.62	5	- 15	3.5	- 16	14.60	5.98	- 14.6	5.98	- 14.6	0.167	0.3438	5.98	8.62	0.844	water table to scale
709-MW15A-50	confined	--	--	9.55	46	- 51	41.2	- 51	50.75	41.2	- 50.75	46	- 50.75	0.0835	0.25	8.48	42.27	3.375	top of sand pack to scale
709-MW16-25	confined	--	--	9.5	19	- 24	16	- 25.5	25.26	16	- 25.5	19	- 24	0.0835	0.25	8.25	15.75	1.688	sand pack
709-MW16-50	confined	--	--	7.61	44	- 49	41	- 50.5	48.61	41	- 48.61	44	- 48.61	0.0835	0.25	8.19	40.42	3.375	top of sand pack to scale
709-MW16-75	confined	--	--	9.5	69	- 74	66	- 75.5	75.23	66	- 75.5	69	- 74	0.0835	0.25	8.65	65.35	3.375	sand pack
709-MW18-25	confined	--	--	9.3	19.2	- 24.2	16.4	- 25.7	24.78	16.4	- 25.7	19.2	- 24.2	0.0835	0.25	8.71	15.49	3.375	sand pack
709-MW18-50	confined	--	--	8.2	44.2	- 49.2	41	- 49.2	49.81	41	- 49.2	44.2	- 49.2	0.0835	0.25	10.40	38.8	1.688	sand pack
709 MW20-50	confined	--	--	11.5	45	- 50	40	- 51.5	50.46	40	- 51.5	45	- 50	0.0835	0.3438	11.17	38.83	1.688	sand pack
709-MW20-75	confined	--	--	5.89	72.38	- 77.38	69.8	- 77.5	75.69	69.8	- 75.69	72.38	- 75.69	0.0835	0.25	10.38	65.31	1.688	top of sand pack to scale
709-MW21-15	unconfined	--	--	8.49	5.2	- 15.2	3.2	- 17	15.59	6.71	- 17	6.71	- 15.2	0.0835	0.25	6.71	8.49	3.375	water table to bottom of sand pack
709-MW21-25	confined	--	--	9.8	19.2	- 24.2	16.2	- 2.6	25.02	16.2	- 26	19.2	- 24.2	0.0835	0.25	8.37	15.83	3.375	sand pack
709-MW21-50	confined	--	--	9.8	44.2	- 49.2	41.2	- 51	50.19	41.2	- 51	44.2	- 51	0.0835	0.25	8.35	40.85	3.375	sand pack
721-MW05-75	confined	--	--	9.9	69.1	- 74.1	66.1	- 76	75.80	66.1	- 76	69.1	- 74.1	0.0835	0.25	9.11	64.99	3.375	sand pack
721-MW10-75	confined	--	--	6.95	68.3	- 73.3	65.3	- 75	62.25	65.3	- 72.25	68.3	- 72.25	0.0835	0.25	9.87	62.38	1.688	top of sand pack to scale
721-MW11-15	unconfined	--	--	9.76	4.9	- 14.9	2.9	- 16.75	16.13	6.99	- 16.75	6.99	- 14.9	0.0835	0.25	6.99	7.91	3.375	water table to bottom of sand pack
721-MW11-25	confined	--	--	8.6	18.9	- 23.9	16.9	- 25.5	25.20	16.9	- 25.5	18.9	- 23.9	0.0835	0.25	8.41	15.49	3.375	sand pack
721-MW11-50	confined	--	--	9.6	43.9	- 48.9	40.9	- 50.5	49.58	40.9	- 50.5	43.9	- 48.9	0.0835	0.25	10.08	38.82	3.375	sand pack
721-MW11-75	confined	--	--	9.6	68.9	- 73.9	65.9	- 75.5	75.17	65.9	- 75.5	68.9	- 73.9	0.0835	0.25	9.95	63.95	3.375	sand pack
721-MW12-15	unconfined	--	--	10.2	4.6	- 14.6	3	- 16.1	15.58	16.1	- 5.9	14.6	- 5.9	0.0835	0.25	5.90	8.70	3.375	water table to bottom of sand pack
721-MW12-25	confined	--	--	8.5	18.6	- 23.6	16.6	- 25.1	25.03	16.6	- 25.1	18.6	- 23.6	0.0835	0.25	8.03	15.57	3.375	sand pack
721-MW12-50	confined	--	--	10	43.5	- 48.5	40.5	- 50.5	50.31	40.5	- 50.5	43.5	- 48.5	0.0835	0.25	8.22	40.28	3.375	sand pack
721-MW13-15	unconfined	--	--	10.43	4.6	- 14.6	2.6	- 16.5	15.47	6.07	- 16.5	6.07	- 14.6	0.0835	0.25	6.07	8.53	3.375	water table to bottom of sand pack
721-MW13-25	confined	--	--	8.9	18.6	- 23.6	15.6	- 25.5	25.07	15.6	- 24.5	18.6	- 23.6	0.0835	0.25	8.79	14.81	3.375	top of sand pack to top of bottom confining unit
721-MW13-50	confined	--	--	9.9	43.6	- 48.6	40.6	- 50.5	49.82	40.6	- 50.5	43.6	- 48.6	0.0835	0.25	8.33	40.27	3.375	sand pack
721-MW14-15	unconfined	--	--	10.18	4.7	- 14.7	2.7	- 16.5	15.54	6.32	- 16.5	6.32	- 14.7	0.0835	0.25	6.32	8.38	3.375	water table to bottom of sand pack
721-MW14-25	confined	--	--	8.8	18.7	- 23.7	16.7	- 25.5	25.06	16.7	- 25.5	18.7	- 23.7	0.0835	0.25	8.47	15.23	3.375	sand pack
721-MW14-50	confined	--	--	10.3	43.7	- 48.7	40.7	- 51	49.83	40.7	- 51	43.7	- 48.7	0.0835	0.25	8.57	40.13	3.375	sand pack
721-MW15-15	unconfined	--	--	9.25	4.9	- 14.9	2.9	- 17	16.42	7.75	- 17	7.75	- 14.9	0.0835	0.25	7.75	7.15	1.688	water table to bottom of sand pack
721-MW15-25	confined	--	--	8.6	18.9	- 23.9	16.9	- 25.5	25.13	16.9	- 25.5	18.9	- 23.9	0.0835	0.25	8.42	15.48	3.375	sand pack
721-MW15-50	confined	--	--	9.6	43.9	- 48.9	40.9	- 50.5	50.64	40.9	- 50.5	43.9	- 48.9	0.0835	0.25	8.22	40.68	3.375	sand pack

Notes:
 Depth to well bottom measured during slug testing. Wells were developed/redeveloped as part of pre-CSI groundwater sampling. Where measured well bottom was above installed well bottom depths, well bottoms are assumed to be plugged with solid material extending into sand pack at similar depths. Where aquitard extends into screened interval, screened interval shortened appropriately.
 Hydraulically responsive screen interval based on measured depth to bottom.
 (1) For wells completed with ground surface below static level (artesian conditions), ground surface elevations were assumed to equal reference elevations and all calculations are made from reference elevations.

TABLE 2
SINGLE-WELL RESPONSE TEST RESULTS
AQUIFER TESTING TECHNICAL MEMORANDUM
COMPREHENSIVE SUPPLEMENTAL INVESTIGATION
OCCIDENTAL CHEMICAL CORPORATION, TACOMA, WA

Well ID	Aquifer Condition <i>Confined/Unconfined</i>	Analytical Method ⁽¹⁾		Hydraulic Conductivity		Geometric Mean <i>(cm/sec)</i>	Screened Material
		Falling Head Tests	Rising Head Tests	Falling Head Tests <i>(cm/sec)</i>	Rising Head Tests		
3-25	confined	Bouwer-Rice	Bouwer-Rice	6.91E-04	9.11E-04	8.77E-04	SP-fine to medium sand, trace silt to SM-silty sand
		Bouwer-Rice	Bouwer-Rice	8.31E-04	9.11E-04		
		Bouwer-Rice	Bouwer-Rice	9.54E-04	9.99E-04		
5-25	confined	Bouwer-Rice	Bouwer-Rice	7.58E-05	1.32E-04	1.00E-04	SP-SM-silty sand, fine to medium
5-75	confined	Bouwer-Rice	Bouwer-Rice	5.75E-04	4.36E-04	4.95E-04	SC-clayey sand to SM-sandy silt
		Bouwer-Rice	Bouwer-Rice	5.49E-04	3.56E-04		
		Bouwer-Rice	Bouwer-Rice	5.75E-04	4.78E-04		
		Bouwer-Rice	Bouwer-Rice	5.49E-04	4.84E-04		
5-100	confined	Bouwer-Rice	Bouwer-Rice	4.56E-03	5.75E-03	5.47E-03	SM-silty sand, fine to SP-sand, fine, slightly silty
		Bouwer-Rice	Bouwer-Rice	5.01E-03	5.75E-03		
		Bouwer-Rice	Bouwer-Rice	5.24E-03	5.74E-03		
		Bouwer-Rice	Bouwer-Rice	5.49E-03	5.75E-03		
		Bouwer-Rice	Bouwer-Rice	5.75E-03	5.49E-03		
		Bouwer-Rice	Bouwer-Rice	5.75E-03	5.49E-03		
6A-50	confined	-	Bouwer-Rice	NM	4.56E-04	4.56E-04	SP-sand, fine to medium
		-	Bouwer-Rice	NM	4.56E-04		
6A-100	confined	Bouwer-Rice	Bouwer-Rice	6.02E-04	7.93E-04	6.72E-04	SP-sand, fine to medium
		Bouwer-Rice	Bouwer-Rice	5.24E-04	7.93E-04		
		Bouwer-Rice	Bouwer-Rice	5.01E-04	8.70E-04		
		Bouwer-Rice	Bouwer-Rice	5.01E-04	9.11E-04		
		Bouwer-Rice	Bouwer-Rice	5.24E-04	9.11E-04		
7-100	confined	Bouwer-Rice	Bouwer-Rice	4.16E-05	9.11E-05	3.62E-05	SP-SM-sand, fine to medium
		Bouwer-Rice	Bouwer-Rice	2.58E-05	3.31E-05		
		Bouwer-Rice	Bouwer-Rice	2.19E-05	3.16E-05		
7-181	confined	Bouwer-Rice	Bouwer-Rice	Not representative	4.56E-04	3.80E-04	ML-sandy silt
		Bouwer-Rice	Bouwer-Rice	Not representative	3.16E-04		
8-23	confined	Bouwer-Rice	Bouwer-Rice	1.36E-04	5.75E-05	9.79E-05	SM-silty sand, fine to medium
		Bouwer-Rice	Bouwer-Rice	9.01E-05	7.93E-05		
		Bouwer-Rice	Bouwer-Rice	9.99E-05	1.58E-04		
9-100	confined	Bouwer-Rice	Bouwer-Rice	5.49E-04	9.99E-04	7.36E-04	SM-silty sand, fine
		Bouwer-Rice	Bouwer-Rice	5.49E-04	9.54E-04		
		Bouwer-Rice	Bouwer-Rice	5.75E-04	9.54E-04		
		Bouwer-Rice	Bouwer-Rice	6.02E-04	9.11E-04		

TABLE 2

SINGLE-WELL RESPONSE TEST RESULTS
 AQUIFER TESTING TECHNICAL MEMORANDUM
 COMPREHENSIVE SUPPLEMENTAL INVESTIGATION
 OCCIDENTAL CHEMICAL CORPORATION, TACOMA, WA

Well ID	Aquifer Condition Confined/Unconfined	Analytical Method ⁽¹⁾		Hydraulic Conductivity		Geometric Mean (cm/sec)	Screened Material
		Falling Head Tests	Rising Head Tests	Falling Head Tests (cm/sec)	Rising Head Tests		
10-24	confined	Bouwer-Rice	Bouwer-Rice	5.99E-03	2.62E-02	9.32E-03	SP-sand, fine to medium
		Bouwer-Rice	Bouwer-Rice	3.45E-03	2.62E-02		
		Bouwer-Rice	Bouwer-Rice	3.00E-03	2.50E-02		
		Bouwer-Rice	Bouwer-Rice	3.00E-03	2.50E-02		
		Bouwer-Rice	Bouwer-Rice	3.00E-03	2.39E-02		
		Bouwer-Rice	Bouwer-Rice	3.00E-03	2.50E-02		
10-50	confined	Non-responsive	Non-responsive	-	-		SP-SM-silty sand, fine to medium
10-100	confined	Non-responsive	Non-responsive	-	-		SP-SM-silty sand, fine to medium
11-45	confined	Bouwer-Rice	Bouwer-Rice	1.81E-02	1.66E-02	1.79E-02	slightly silty fine sand (SM/SP)
		Bouwer-Rice	Bouwer-Rice	1.91E-02	1.66E-02		
		Bouwer-Rice	Bouwer-Rice	1.82E-02	1.68E-02		
		Bouwer-Rice	Bouwer-Rice	1.82E-02	1.78E-02		
		Bouwer-Rice	Bouwer-Rice	1.82E-02	1.72E-02		
		Bouwer-Rice	Bouwer-Rice	1.93E-02	1.86E-02		
		Bouwer-Rice	Bouwer-Rice	1.72E-02	1.86E-02		
11-75	confined	Bouwer-Rice	Bouwer-Rice	1.58E-02	1.44E-02	1.11E-02	SP-sand, fine
		Bouwer-Rice	Bouwer-Rice	1.14E-02	1.25E-02		
		-	-	NM	NM		
		-	Bouwer-Rice	NM	9.94E-03		
		-	Bouwer-Rice	NM	7.90E-03		
		-	Bouwer-Rice	NM	8.27E-03		
12-75	confined	Bouwer-Rice	Bouwer-Rice	3.46E-05	3.02E-05	3.50E-05	SP-sand, with silt, fine
		Bouwer-Rice	Bouwer-Rice	3.63E-05	3.02E-05		
		Bouwer-Rice	Bouwer-Rice	4.36E-05	3.80E-05		
		Bouwer-Rice	Bouwer-Rice	3.46E-05	3.46E-05		
14-25R	confined	Bouwer-Rice	Bouwer-Rice	9.94E-04	1.25E-03	1.24E-03	SW-sand, medium
		Bouwer-Rice	Bouwer-Rice	1.04E-03	1.25E-03		
		Bouwer-Rice	Bouwer-Rice	1.14E-03	1.31E-03		
		Bouwer-Rice	Bouwer-Rice	1.25E-03	1.44E-03		
		Bouwer-Rice	Bouwer-Rice	1.25E-03	1.58E-03		

TABLE 2

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 OCCIDENTAL CHEMICAL CORPORATION, TACOMA, WA

Well ID	Aquifer Condition Confined/Unconfined	Analytical Method ⁽¹⁾		Hydraulic Conductivity		Geometric Mean (cm/sec)	Screened Material
		Falling Head Tests	Rising Head Tests	Falling Head Tests (cm/sec)	Rising Head Tests		
14-50R	confined	Bouwer-Rice	Bouwer-Rice	9.94E-04	1.09E-03	1.23E-03	SW-sand, medium
		Bouwer-Rice	Bouwer-Rice	1.09E-03	1.20E-03		
		Bouwer-Rice	Bouwer-Rice	1.20E-03	1.37E-03		
		Bouwer-Rice	Bouwer-Rice	1.25E-03	1.44E-03		
		Bouwer-Rice	Bouwer-Rice	1.25E-03	1.51E-03		
15-120	confined	Bouwer-Rice	Bouwer-Rice	1.05E-03	1.74E-03	1.47E-03	ML-silt, some fine sand to SM-sand, some silt to SP-sand, fine
		Bouwer-Rice	Bouwer-Rice	1.20E-03	1.82E-03		
		Bouwer-Rice	Bouwer-Rice	1.26E-03	1.74E-03		
		Bouwer-Rice	Bouwer-Rice	1.32E-03	1.74E-03		
		Bouwer-Rice	Bouwer-Rice	1.26E-03	1.82E-03		
18-50R	confined	Bouwer-Rice	Bouwer-Rice	4.78E-04	5.01E-04	5.01E-04	SM-silty sand, very fine to fine
		Bouwer-Rice	Bouwer-Rice	5.01E-04	5.01E-04		
		-	Bouwer-Rice	-	5.24E-04		
22-50	confined	Non-responsive	-	-	-		SM-silty sand, fine
23-25R	confined	Bouwer-Rice	Bouwer-Rice	7.20E-03	7.90E-03	7.63E-03	SP-sand, fine , little silt to SW-sand medium
		Bouwer-Rice	Bouwer-Rice	7.20E-03	7.90E-03		
		Bouwer-Rice	Bouwer-Rice	6.88E-03	7.90E-03		
		Bouwer-Rice	Bouwer-Rice	7.20E-03	8.27E-03		
		Bouwer-Rice	Bouwer-Rice	6.88E-03	8.27E-03		
		Bouwer-Rice	Bouwer-Rice	7.54E-03	8.66E-03		
24-15	unconfined	Bouwer-Rice	Bouwer-Rice	7.54E-02	9.07E-02	8.70E-02	SP-SM silty sand, fine to medium
		Bouwer-Rice	Bouwer-Rice	7.90E-02	9.07E-02		
		Bouwer-Rice	Bouwer-Rice	9.07E-02	8.66E-02		
		Bouwer-Rice	Bouwer-Rice	8.27E-02	9.50E-02		
		Bouwer-Rice	Bouwer-Rice	9.07E-02	9.07E-02		
24-35	confined	Bouwer-Rice	Bouwer-Rice	9.11E-04	1.99E-03	1.32E-03	SP-SM silty sand, fine to medium
		Bouwer-Rice	Bouwer-Rice	7.58E-04	2.75E-03		
		Bouwer-Rice	Bouwer-Rice	6.30E-04	2.19E-03		
24-50	confined	Bouwer-Rice	Bouwer-Rice	4.16E-04	6.60E-04	4.89E-04	SP-SM silty sand, fine to medium
		Bouwer-Rice	Bouwer-Rice	3.80E-04	6.02E-04		
		Bouwer-Rice	Bouwer-Rice	3.80E-04	6.02E-04		
		Bouwer-Rice	Bouwer-Rice	3.98E-04	5.75E-04		
		Bouwer-Rice	Bouwer-Rice	3.98E-04	6.02E-04		

TABLE 2
SINGLE-WELL RESPONSE TEST RESULTS
AQUIFER TESTING TECHNICAL MEMORANDUM
COMPREHENSIVE SUPPLEMENTAL INVESTIGATION
OCCIDENTAL CHEMICAL CORPORATION, TACOMA, WA

Well ID	Aquifer Condition <i>Confined/Unconfined</i>	Analytical Method ⁽¹⁾		Hydraulic Conductivity		Geometric Mean <i>(cm/sec)</i>	Screened Material
		Falling Head Tests	Rising Head Tests	Falling Head Tests <i>(cm/sec)</i>	Rising Head Tests		
34-25R	confined	Bouwer-Rice	Bouwer-Rice	1.58E-02	1.90E-02	1.65E-02	SP-sand, fine
		Bouwer-Rice	Bouwer-Rice	1.51E-02	1.90E-02		
		Bouwer-Rice	Bouwer-Rice	1.44E-02	1.90E-02		
		Bouwer-Rice	Bouwer-Rice	1.44E-02	1.90E-02		
		Bouwer-Rice	Bouwer-Rice	1.37E-02	1.81E-02		
		Bouwer-Rice	Bouwer-Rice	1.37E-02	1.90E-02		
34-50R	confined	Bouwer-Rice	Bouwer-Rice	5.22E-03	5.46E-03	5.24E-03	SP-sand, fine
		Bouwer-Rice	Bouwer-Rice	4.98E-03	5.46E-03		
		Bouwer-Rice	Bouwer-Rice	5.46E-03	5.22E-03		
		Bouwer-Rice	Bouwer-Rice	4.98E-03	5.22E-03		
		Bouwer-Rice	Bouwer-Rice	4.98E-03	5.46E-03		
		Bouwer-Rice	Bouwer-Rice	5.22E-03	5.22E-03		
34-75R	confined	Bouwer-Rice	Bouwer-Rice	3.80E-04	3.46E-04	3.57E-04	SM-silty sand, fine to ML-sandy silt, fine
		Bouwer-Rice	Bouwer-Rice	3.46E-04	3.46E-04		
		Bouwer-Rice	Bouwer-Rice	3.63E-04	3.63E-04		
35-25	confined	Bouwer-Rice	Bouwer-Rice	1.14E-03	9.50E-04	9.76E-04	SP-sand, very fine to medium to SM-silty sand, very fine to medium
		Bouwer-Rice	Bouwer-Rice	9.07E-04	9.94E-04		
		Bouwer-Rice	Bouwer-Rice	9.50E-04	9.50E-04		
		Bouwer-Rice	Bouwer-Rice	9.50E-04	9.94E-04		
		Bouwer-Rice	Bouwer-Rice	9.07E-04	1.04E-03		
35-100R	confined	Bouwer-Rice	Bouwer-Rice	4.78E-04	2.75E-04	3.07E-04	SP-sand, very fine to medium
		Bouwer-Rice	Bouwer-Rice	4.16E-04	2.40E-04		
		Bouwer-Rice	Bouwer-Rice	3.63E-04	2.21E-04		
		Bouwer-Rice	Bouwer-Rice	3.63E-04	2.09E-04		
40-25	confined	Bouwer-Rice	Bouwer-Rice	3.61E-02	4.98E-02	4.36E-02	SM-sand, some silt, fine to medium
		Bouwer-Rice	Bouwer-Rice	3.61E-02	4.76E-02		
		Bouwer-Rice	Bouwer-Rice	3.78E-02	4.98E-02		
		Bouwer-Rice	Bouwer-Rice	3.96E-02	4.98E-02		
		Bouwer-Rice	Bouwer-Rice	3.96E-02	4.98E-02		
		Bouwer-Rice	Bouwer-Rice	4.15E-02	4.98E-02		
40-50	confined	Bouwer-Rice	Bouwer-Rice	2.28E-02	2.87E-02	2.37E-02	SM-sand, some silt, medium
		Bouwer-Rice	Bouwer-Rice	2.08E-02	2.74E-02		
		Bouwer-Rice	Bouwer-Rice	2.18E-02	2.62E-02		
		Bouwer-Rice	Bouwer-Rice	1.98E-02	2.62E-02		
		Bouwer-Rice	Bouwer-Rice	1.98E-02	2.62E-02		
		Bouwer-Rice	Bouwer-Rice	2.08E-02	2.62E-02		

TABLE 2

**SINGLE-WELL RESPONSE TEST RESULTS
AQUIFER TESTING TECHNICAL MEMORANDUM
COMPREHENSIVE SUPPLEMENTAL INVESTIGATION
OCCIDENTAL CHEMICAL CORPORATION, TACOMA, WA**

Well ID	Aquifer Condition Confined/Unconfined	Analytical Method ⁽¹⁾		Hydraulic Conductivity		Geometric Mean (cm/sec)	Screened Material
		Falling Head Tests	Rising Head Tests	Falling Head Tests (cm/sec)	Rising Head Tests		
40-75	confined	Bouwer-Rice	Bouwer-Rice	1.32E-03	1.20E-03	1.29E-03	SM-sand, fine to SP-sand, fine
		Bouwer-Rice	Bouwer-Rice	1.26E-03	1.20E-03		
		Bouwer-Rice	Bouwer-Rice	1.38E-03	1.20E-03		
		Bouwer-Rice	Bouwer-Rice	1.38E-03	1.26E-03		
		Bouwer-Rice	Bouwer-Rice	1.51E-03	1.26E-03		
40-100R	confined	Bouwer-Rice	Bouwer-Rice	5.46E-03	5.46E-03	4.94E-03	SM-sand, little silt, medium
		Bouwer-Rice	Bouwer-Rice	5.22E-03	5.22E-03		
		Bouwer-Rice	Bouwer-Rice	4.76E-03	5.22E-03		
		Bouwer-Rice	Bouwer-Rice	4.55E-03	4.98E-03		
		Bouwer-Rice	Bouwer-Rice	4.34E-03	4.98E-03		
		Bouwer-Rice	Bouwer-Rice	4.34E-03	4.98E-03		
41C-130	confined	Bouwer-Rice	Bouwer-Rice	1.26E-03	1.38E-03	1.34E-03	SP-sand, trace silt, very fine to SM-silty sand, very fine to SM/ML-sand and silt, very fine
		Bouwer-Rice	Bouwer-Rice	1.38E-03	1.38E-03		
		Bouwer-Rice	Bouwer-Rice	1.32E-03	1.38E-03		
		Bouwer-Rice	Bouwer-Rice	1.32E-03	1.32E-03		
		Bouwer-Rice	Bouwer-Rice	1.38E-03	1.32E-03		
42-25	confined	Bouwer-Rice	Bouwer-Rice	5.75E-05	4.56E-05	4.82E-05	SM-sand, some silt, trace gravel, medium to coarse
		Bouwer-Rice	Bouwer-Rice	4.36E-05	5.01E-05		
		Bouwer-Rice	Bouwer-Rice	4.16E-05	5.24E-05		
42-50	confined	Bouwer-Rice	Bouwer-Rice	1.26E-03	9.54E-04	9.96E-04	SM-sand, some silt, fine to medium to ML-silt
		Bouwer-Rice	Bouwer-Rice	1.10E-03	9.54E-04		
		Bouwer-Rice	Bouwer-Rice	1.05E-03	9.54E-04		
		Bouwer-Rice	Bouwer-Rice	9.99E-04	9.54E-04		
		Bouwer-Rice	Bouwer-Rice	9.99E-04	9.11E-04		
		Bouwer-Rice	Bouwer-Rice	9.54E-04	9.11E-04		
44-25	confined	Bouwer-Rice	Bouwer-Rice	1.44E-04	6.91E-05	9.76E-05	SM-sand, some silt, fine
		Bouwer-Rice	Bouwer-Rice	1.20E-04	9.11E-05		
		Bouwer-Rice	Bouwer-Rice	9.54E-05	9.54E-05		
		Bouwer-Rice	Bouwer-Rice	9.11E-05	9.11E-05		
44-50	confined	Bouwer-Rice	Bouwer-Rice	9.11E-05	1.38E-04	9.37E-05	SM-sand, some silt, fine
		Bouwer-Rice	Bouwer-Rice	8.70E-05	7.93E-05		
		Bouwer-Rice	-	8.31E-05	-		
45-50	confined	Non-responsive	-	-	-	-	SM-sand, some silt, medium

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 COMPREHENSIVE SUPPLEMENTAL INVESTIGATION
 OCCIDENTAL CHEMICAL CORPORATION, TACOMA, WA

Well ID	Aquifer Condition Confined/Unconfined	Analytical Method ⁽¹⁾		Hydraulic Conductivity		Geometric Mean (cm/sec)	Screened Material
		Falling Head Tests	Rising Head Tests	Falling Head Tests (cm/sec)	Rising Head Tests		
49-15	unconfined	--	Dagan	--	3.45E-02	3.51E-02	SW-sand, trace silt, fine
		--	Dagan	--	3.29E-02		
		--	Dagan	--	3.61E-02		
		--	Dagan	--	3.61E-02		
		--	Dagan	--	3.61E-02		
		--	Dagan	--	3.53E-02		
50-15	unconfined	--	Dagan	--	5.72E-02	6.04E-02	SW-sand, trace silt, fine to medium
		--	Dagan	--	5.99E-02		
		--	Dagan	--	6.27E-02		
		--	Dagan	--	6.27E-02		
		--	Dagan	--	5.99E-02		
		--	Dagan	--	5.99E-02		
52-15	unconfined	--	Dagan	--	4.76E-02	4.71E-02	SW-sand, trace silt
		--	Dagan	--	4.98E-02		
		--	Dagan	--	4.76E-02		
		--	Dagan	--	4.55E-02		
		--	Dagan	--	4.76E-02		
		--	Dagan	--	4.76E-02		
		--	Dagan	--	4.55E-02		
		--	Dagan	--	4.55E-02		
65-100	confined	Bouwer-Rice	Bouwer-Rice	1.58E-03	1.44E-03	1.27E-03	Not sampled
		Bouwer-Rice	Bouwer-Rice	1.09E-03	1.58E-03		
		Bouwer-Rice	Bouwer-Rice	9.94E-04	1.31E-03		
		Bouwer-Rice	Bouwer-Rice	1.09E-03	1.58E-03		
		Bouwer-Rice	Bouwer-Rice	1.25E-03	1.04E-03		
		Bouwer-Rice	Bouwer-Rice	1.44E-03	1.09E-03		
70-25	confined	Non responsive	-	-	-		SM-silty sand, fine to medium
74-50	confined	Bouwer-Rice	Bouwer-Rice	5.22E-03	5.99E-03	5.24E-03	SM-sand, with silt, fine to SP-sand, fine
		Bouwer-Rice	Bouwer-Rice	5.22E-03	5.72E-03		
		Bouwer-Rice	Bouwer-Rice	4.76E-03	5.72E-03		
		Bouwer-Rice	Bouwer-Rice	4.55E-03	5.72E-03		
		Bouwer-Rice	Bouwer-Rice	4.76E-03	5.46E-03		
		Bouwer-Rice	Bouwer-Rice	4.76E-03	5.22E-03		

TABLE 2

SINGLE-WELL RESPONSE TEST RESULTS
 AQUIFER TESTING TECHNICAL MEMORANDUM
 COMPREHENSIVE SUPPLEMENTAL INVESTIGATION
 OCCIDENTAL CHEMICAL CORPORATION, TACOMA, WA

Well ID	Aquifer Condition Confined/Unconfined	Analytical Method ⁽¹⁾		Hydraulic Conductivity		Geometric Mean (cm/sec)	Screened Material
		Falling Head Tests	Rising Head Tests	Falling Head Tests (cm/sec)	Rising Head Tests		
74-75	confined	Bouwer-Rice	Bouwer-Rice	1.20E-03	1.37E-03	1.27E-03	SP-SM-sand, trace/with silt, fine
		Bouwer-Rice	Bouwer-Rice	1.25E-03	1.31E-03		
		Bouwer-Rice	Bouwer-Rice	1.20E-03	1.31E-03		
		Bouwer-Rice	Bouwer-Rice	1.20E-03	1.37E-03		
		Bouwer-Rice	Bouwer-Rice	1.25E-03	1.31E-03		
		Bouwer-Rice	Bouwer-Rice	1.20E-03	1.31E-03		
74-100	confined	Non responsive	-	-	-		SP-sand, fine to SM-silty sand, very fine
75-50	confined	Bouwer-Rice	Bouwer-Rice	2.09E-03	2.40E-03	2.34E-03	SM-sand with silt, fine to SP-sand, trace silt, fine
		Bouwer-Rice	Bouwer-Rice	2.09E-03	2.40E-03		
		Bouwer-Rice	Bouwer-Rice	2.09E-03	2.63E-03		
		Bouwer-Rice	Bouwer-Rice	2.29E-03	2.63E-03		
		Bouwer-Rice	Bouwer-Rice	2.29E-03	2.63E-03		
75-75	confined	Bouwer-Rice	Bouwer-Rice	4.56E-04	3.02E-04	3.76E-04	SM/ML-silt and sand to CL-silty clay, to ML-silt to SM-silty sand
		Bouwer-Rice	Bouwer-Rice	4.56E-04	3.02E-04		
		Bouwer-Rice	Bouwer-Rice	4.56E-04	3.16E-04		
		Bouwer-Rice	Bouwer-Rice	4.78E-04	3.02E-04		
		Bouwer-Rice	Bouwer-Rice	5.01E-04	2.88E-04		
75-130	confined	Bouwer-Rice	Bouwer-Rice	1.15E-04	1.05E-04	1.05E-04	ML-silt, little fine sand
		Bouwer-Rice	Bouwer-Rice	1.10E-04	1.05E-04		
		Bouwer-Rice	Bouwer-Rice	1.05E-04	1.05E-04		
		Bouwer-Rice	Bouwer-Rice	9.11E-05	-		
81-50	confined	Bouwer-Rice	Bouwer-Rice	5.01E-04	5.01E-04	5.26E-04	SM-silty sand, fine to medium to SP-sand, fine to medium
		Bouwer-Rice	Bouwer-Rice	5.24E-04	5.24E-04		
		Bouwer-Rice	Bouwer-Rice	5.24E-04	5.24E-04		
		Bouwer-Rice	Bouwer-Rice	5.24E-04	5.49E-04		
		Bouwer-Rice	Bouwer-Rice	5.49E-04	5.24E-04		
		Bouwer-Rice	Bouwer-Rice	5.49E-04	5.24E-04		
89C-25	confined	Bouwer-Rice	Bouwer-Rice	1.20E-02	1.25E-02	1.23E-02	SM-silty sand, very fine to fine to fine sand with silt
		Bouwer-Rice	Bouwer-Rice	1.20E-02	1.25E-02		
		Bouwer-Rice	Bouwer-Rice	1.20E-02	1.31E-02		
89C-50	confined	Bouwer-Rice	Bouwer-Rice	2.87E-03	2.74E-03	2.83E-03	SM-silty sand, very fine to fine
		Bouwer-Rice	Bouwer-Rice	2.87E-03	2.87E-03		
		Bouwer-Rice	Bouwer-Rice	2.74E-03	2.87E-03		

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SINGLE-WELL RESPONSE TEST RESULTS
 AQUIFER TESTING TECHNICAL MEMORANDUM
 COMPREHENSIVE SUPPLEMENTAL INVESTIGATION
 OCCIDENTAL CHEMICAL CORPORATION, TACOMA, WA

Well ID	Aquifer Condition Confined/Unconfined	Analytical Method ⁽¹⁾		Hydraulic Conductivity		Geometric Mean (cm/sec)	Screened Material
		Falling Head Tests	Rising Head Tests	Falling Head Tests (cm/sec)	Rising Head Tests		
89C-75	confined	Bouwer-Rice	Bouwer-Rice	1.31E-03	1.25E-03	1.27E-03	SM-silty sand, very fine to fine
		Bouwer-Rice	Bouwer-Rice	1.31E-03	1.25E-03		
		Bouwer-Rice	Bouwer-Rice	1.25E-03	1.25E-03		
95-15	confined	--	Dagan	--	1.90E-03	1.92E-03	SM-silty sand, trace clay to SM-sand, with silt and clay
		--	Dagan	--	2.04E-03		
		--	Dagan	--	1.86E-03		
		--	Dagan	--	1.94E-03		
		--	Dagan	--	1.86E-03		
PZ-SHI-2-100	confined	Bouwer-Rice	Bouwer-Rice	1.58E-03	1.44E-03	1.55E-03	SP-sand, fine to SM-sand, with silt, very fine to ML-sandy silt to ML-silt, with fine sand
		Bouwer-Rice	Bouwer-Rice	1.58E-03	1.44E-03		
		Bouwer-Rice	Bouwer-Rice	1.58E-03	1.51E-03		
		Bouwer-Rice	Bouwer-Rice	1.66E-03	1.44E-03		
		Bouwer-Rice	Bouwer-Rice	1.66E-03	1.51E-03		
		Bouwer-Rice	Bouwer-Rice	1.66E-03	1.51E-03		
T3-50	confined	Bouwer-Rice	Bouwer-Rice	6.91E-04	8.31E-04	8.15E-04	SM-sand, little to some silt
		Bouwer-Rice	Bouwer-Rice	7.58E-04	8.70E-04		
		Bouwer-Rice	Bouwer-Rice	7.93E-04	8.31E-04		
		Bouwer-Rice	Bouwer-Rice	7.58E-04	8.70E-04		
		Bouwer-Rice	Bouwer-Rice	7.93E-04	8.70E-04		
		Bouwer-Rice	Bouwer-Rice	8.31E-04	9.11E-04		
T5-120	confined	Bouwer-Rice	Bouwer-Rice	7.23E-04	6.60E-04	7.75E-04	SM-sand, little to some silt, fine to SM/ML-sand and silt, fine
		Bouwer-Rice	Bouwer-Rice	7.58E-04	7.58E-04		
		Bouwer-Rice	Bouwer-Rice	7.93E-04	7.58E-04		
		Bouwer-Rice	Bouwer-Rice	8.31E-04	7.93E-04		
		Bouwer-Rice	Bouwer-Rice	8.31E-04	7.93E-04		
		Bouwer-Rice	Bouwer-Rice	8.31E-04	7.93E-04		
709-MW06-25	confined	Bouwer-Rice	Bouwer-Rice	8.27E-03	8.66E-03	1.00E-02	SP-sand, medium to SP-sand, trace silt, fine
		Bouwer-Rice	Bouwer-Rice	9.07E-03	9.50E-03		
		Bouwer-Rice	Bouwer-Rice	9.94E-03	1.04E-02		
		Bouwer-Rice	Bouwer-Rice	1.04E-02	1.04E-02		
		Bouwer-Rice	Bouwer-Rice	9.94E-03	1.04E-02		
		Bouwer-Rice	Bouwer-Rice	1.04E-02	1.14E-02		
		Bouwer-Rice	Bouwer-Rice	1.04E-02	1.14E-02		
709-MW06-50	confined	Bouwer-Rice	Bouwer-Rice	6.30E-04	4.36E-04	5.24E-04	SP-sand, trace silt to SM-silty sand
		Bouwer-Rice	Bouwer-Rice	6.02E-04	4.56E-04		
		Bouwer-Rice	Bouwer-Rice	6.30E-04	4.36E-04		

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SINGLE-WELL RESPONSE TEST RESULTS
 AQUIFER TESTING TECHNICAL MEMORANDUM
 COMPREHENSIVE SUPPLEMENTAL INVESTIGATION
 OCCIDENTAL CHEMICAL CORPORATION, TACOMA, WA

Well ID	Aquifer Condition Confined/Unconfined	Analytical Method ⁽¹⁾		Hydraulic Conductivity		Geometric Mean (cm/sec)	Screened Material
		Falling Head Tests	Rising Head Tests	Falling Head Tests (cm/sec)	Rising Head Tests		
709-MW09-25	confined	Bouwer-Rice	Bouwer-Rice	4.98E-03	6.57E-03	5.72E-03	SP-sand, trace silt, fine to SM-silty sand, with clay, fine
		Bouwer-Rice	Bouwer-Rice	4.98E-03	6.57E-03		
		Bouwer-Rice	Bouwer-Rice	4.98E-03	6.27E-03		
		Bouwer-Rice	Bouwer-Rice	5.46E-03	6.27E-03		
		Bouwer-Rice	Bouwer-Rice	5.22E-03	6.27E-03		
709-MW11-25	confined	Bouwer-Rice	Bouwer-Rice	1.31E-02	1.73E-02	1.42E-02	SM-silty sand, fine to medium to ML-sandy silt
		Bouwer-Rice	Bouwer-Rice	1.20E-02	1.81E-02		
		Bouwer-Rice	Bouwer-Rice	1.20E-02	1.73E-02		
		Bouwer-Rice	Bouwer-Rice	1.31E-02	1.65E-02		
		Bouwer-Rice	Bouwer-Rice	1.20E-02	1.58E-02		
		Bouwer-Rice	Bouwer-Rice	1.14E-02	1.51E-02		
		Bouwer-Rice	Bouwer-Rice	1.20E-02	1.58E-02		
709-MW15-15	unconfined	-	Dagan	-	1.90E-02	1.82E-02	sand and silty sand (SP-SM)
		-	Dagan	-	1.73E-02		
		-	Dagan	-	1.81E-02		
		-	Dagan	-	1.73E-02		
		-	Dagan	-	1.98E-02		
		-	Dagan	-	1.81E-02		
709-MW15A-50	confined	Butler	Butler	1.25E-01	9.07E-02	9.89E-02	SP-sand, fine
		Butler	Butler	1.14E-01	8.27E-02		
		Butler	Butler	1.14E-01	8.27E-02		
		Butler	Butler	1.25E-01	8.66E-02		
		Butler	Butler	1.14E-01	7.20E-02		
709-MW16-25	confined	Bouwer-Rice	Bouwer-Rice	4.76E-03	7.46E-03	5.07E-03	SP-sand, trace silt, fine to with silt
		Bouwer-Rice	Bouwer-Rice	4.55E-03	7.54E-03		
		Bouwer-Rice	Bouwer-Rice	4.34E-03	4.55E-03		
		Bouwer-Rice	Bouwer-Rice	4.34E-03	4.15E-03		
		Bouwer-Rice	Bouwer-Rice	4.55E-03	5.72E-03		
709-MW16-50	confined	Bouwer-Rice	Bouwer-Rice	1.90E-02	2.18E-02	1.96E-02	SP-sand, trace silt, fine
		Bouwer-Rice	Bouwer-Rice	1.73E-02	2.18E-02		
		Bouwer-Rice	Bouwer-Rice	1.73E-02	2.08E-02		
		Bouwer-Rice	Bouwer-Rice	1.73E-02	2.18E-02		
		Bouwer-Rice	Bouwer-Rice	1.81E-02	2.18E-02		

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SINGLE-WELL RESPONSE TEST RESULTS
 AQUIFER TESTING TECHNICAL MEMORANDUM
 COMPREHENSIVE SUPPLEMENTAL INVESTIGATION
 OCCIDENTAL CHEMICAL CORPORATION, TACOMA, WA

Well ID	Aquifer Condition Confined/Unconfined	Analytical Method ⁽¹⁾		Hydraulic Conductivity		Geometric Mean (cm/sec)	Screened Material
		Falling Head Tests	Rising Head Tests	Falling Head Tests (cm/sec)	Rising Head Tests		
709-MW16-75	confined	Bouwer-Rice	Bouwer-Rice	5.99E-03	6.57E-03	5.28E-03	SP-sand, trace silt, fine
		Bouwer-Rice	Bouwer-Rice	6.57E-03	9.50E-03		
		Bouwer-Rice	Bouwer-Rice	6.27E-03	9.50E-03		
		Bouwer-Rice	Bouwer-Rice	4.34E-04	9.50E-03		
709-MW18-25	confined	Bouwer-Rice	Bouwer-Rice	1.14E-02	1.51E-02	1.41E-02	SM-silty sand, fine to SP-sand, medium
		Bouwer-Rice	Bouwer-Rice	1.14E-02	1.81E-02		
		Bouwer-Rice	Bouwer-Rice	1.25E-02	1.73E-02		
		Bouwer-Rice	Bouwer-Rice	1.14E-02	1.81E-02		
709-MW18-50	confined	Bouwer-Rice	Bouwer-Rice	4.55E-02	1.04E-01	7.20E-02	SW-sand, trace silt, fine to medium to SP-sand, medium
		Bouwer-Rice	Bouwer-Rice	4.34E-02	9.50E-02		
		Bouwer-Rice	Bouwer-Rice	6.27E-02	1.31E-01		
		Bouwer-Rice	Bouwer-Rice	5.22E-02	9.07E-02		
		Bouwer-Rice	Bouwer-Rice	6.27E-02	7.20E-02		
		Bouwer-Rice	Bouwer-Rice	6.27E-02	9.07E-02		
		Bouwer-Rice	Bouwer-Rice	5.99E-02	8.66E-02		
709-MW20-50	confined	Bouwer-Rice	Bouwer-Rice	1.66E-04	1.51E-04	1.63E-04	SM-sand, some silt, fine to ML-silt, some sand, fine
		Bouwer-Rice	Bouwer-Rice	1.74E-04	1.66E-04		
		Bouwer-Rice	Bouwer-Rice	1.66E-04	1.58E-04		
709-MW20-75	confined	Bouwer-Rice	Bouwer-Rice	1.44E-02	1.73E-02	1.53E-02	SP-sand, fine
		Bouwer-Rice	Bouwer-Rice	1.44E-02	1.65E-02		
		Bouwer-Rice	Bouwer-Rice	1.44E-02	1.65E-02		
		Bouwer-Rice	Bouwer-Rice	1.37E-02	1.65E-02		
		Bouwer-Rice	Bouwer-Rice	1.37E-02	1.65E-02		
		Bouwer-Rice	Bouwer-Rice	1.44E-02	1.65E-02		
709-MW21-15	unconfined	-	Dagan	-	3.37E-03	2.95E-03	ML-sandy silt to SM-silty sand, fine to coarse
		-	Dagan	-	3.06E-03		
		-	Dagan	-	2.77E-03		
		-	Dagan	-	2.64E-03		
709-MW21-25	confined	Bouwer-Rice	Bouwer-Rice	7.90E-03	9.50E-03	8.96E-03	SW-sand, with silt, fine to coarse to SM-silty sand, fine to coarse to SM/ML-silt and sand, fine to coarse
		Bouwer-Rice	Bouwer-Rice	8.27E-03	9.94E-03		
		Bouwer-Rice	Bouwer-Rice	8.27E-03	9.94E-03		
		Bouwer-Rice	Bouwer-Rice	8.27E-03	9.94E-03		
		Bouwer-Rice	Bouwer-Rice	8.27E-03	9.94E-03		
		Bouwer-Rice	Bouwer-Rice	8.27E-03	9.50E-03		

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SINGLE-WELL RESPONSE TEST RESULTS
 AQUIFER TESTING TECHNICAL MEMORANDUM
 COMPREHENSIVE SUPPLEMENTAL INVESTIGATION
 OCCIDENTAL CHEMICAL CORPORATION, TACOMA, WA

Well ID	Aquifer Condition Confined/Unconfined	Analytical Method ⁽¹⁾		Hydraulic Conductivity		Geometric Mean (cm/sec)	Screened Material
		Falling Head Tests	Rising Head Tests	Falling Head Tests (cm/sec)	Rising Head Tests		
709-MW21-50	confined	Bouwer-Rice	Bouwer-Rice	1.14E-02	2.39E-02	1.90E-02	SW-sand, fine to coarse
		Bouwer-Rice	Bouwer-Rice	1.58E-02	2.39E-02		
		Bouwer-Rice	Bouwer-Rice	1.44E-02	2.39E-02		
		Bouwer-Rice	Bouwer-Rice	1.58E-02	2.50E-02		
		Bouwer-Rice	Bouwer-Rice	1.58E-02	2.39E-02		
		Bouwer-Rice	Bouwer-Rice	1.73E-02	2.39E-02		
721-MW05-75	confined	Bouwer-Rice	Bouwer-Rice	8.66E-03	9.94E-03	8.90E-03	SP-sand, trace silt, fine to medium to SM-sand, with silt, fine to medium to ML-sandy silt, fine
		Bouwer-Rice	Bouwer-Rice	7.90E-03	9.50E-03		
		Bouwer-Rice	Bouwer-Rice	8.27E-03	9.50E-03		
		Bouwer-Rice	Bouwer-Rice	8.66E-03	9.07E-03		
		Bouwer-Rice	Bouwer-Rice	8.27E-03	9.50E-03		
721-MW10-75	confined	Bouwer-Rice	Bouwer-Rice	1.74E-04	1.32E-04	1.56E-04	CL-silty clay
		Bouwer-Rice	Bouwer-Rice	1.51E-04	1.44E-04		
		Bouwer-Rice	Bouwer-Rice	1.82E-04	1.58E-04		
721-MW11-15	unconfined	-	Dagan	-	2.40E-03	3.29E-03	SM-silty sand, fine to medium
		-	Dagan	-	3.72E-03		
		-	Dagan	-	3.54E-03		
		-	Dagan	-	3.72E-03		
721-MW11-25	confined	Bouwer-Rice	Bouwer-Rice	9.07E-03	1.14E-02	9.71E-03	SM/SC-clay-sand mix with silt and gravel, fine to medium to SM-sand, with silt, fine to medium
		Bouwer-Rice	Bouwer-Rice	9.07E-03	1.04E-02		
		Bouwer-Rice	Bouwer-Rice	8.66E-03	1.09E-02		
		Bouwer-Rice	Bouwer-Rice	8.27E-03	1.04E-02		
721-MW11-50	confined	Bouwer-Rice	Bouwer-Rice	1.98E-02	2.50E-02	2.15E-02	SM-sand, with silt, fine to medium to SW-sand, fine to coarse
		Bouwer-Rice	Bouwer-Rice	1.98E-02	2.39E-02		
		Bouwer-Rice	Bouwer-Rice	1.98E-02	2.28E-02		
		Bouwer-Rice	Bouwer-Rice	1.90E-02	2.28E-02		
		Bouwer-Rice	Bouwer-Rice	1.90E-02	2.39E-02		
721-MW11-75	confined	Bouwer-Rice	Bouwer-Rice	6.57E-03	7.54E-03	7.04E-03	SM-silty sand, fine to medium to SP-sand, trace silt, fine to medium
		Bouwer-Rice	Bouwer-Rice	6.88E-03	7.20E-03		
		Bouwer-Rice	Bouwer-Rice	6.88E-03	7.20E-03		
		Bouwer-Rice	Bouwer-Rice	6.88E-03	7.54E-03		
		Bouwer-Rice	Bouwer-Rice	6.57E-03	7.20E-03		

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SINGLE-WELL RESPONSE TEST RESULTS
 AQUIFER TESTING TECHNICAL MEMORANDUM
 COMPREHENSIVE SUPPLEMENTAL INVESTIGATION
 OCCIDENTAL CHEMICAL CORPORATION, TACOMA, WA

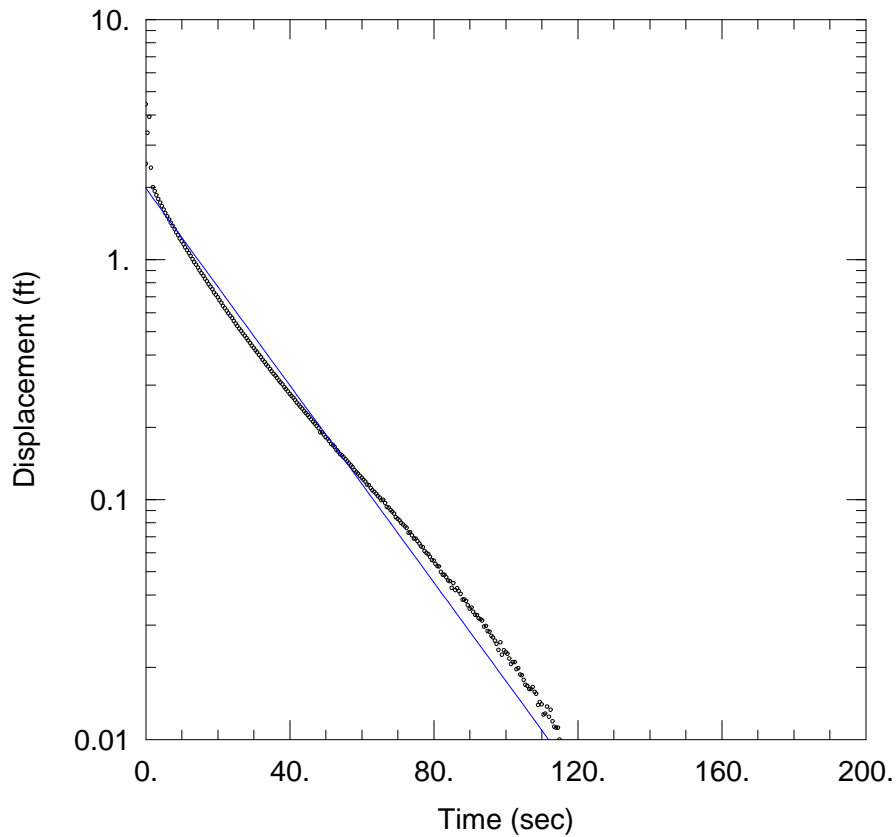
Well ID	Aquifer Condition Confined/Unconfined	Analytical Method ⁽¹⁾		Hydraulic Conductivity		Geometric Mean (cm/sec)	Screened Material
		Falling Head Tests	Rising Head Tests	Falling Head Tests (cm/sec)	Rising Head Tests		
721-MW12-15	unconfined	-	Dagan	-	4.98E-03	5.14E-03	SP-sand, trace silt, fine
		-	Dagan	-	5.22E-03		
		-	Dagan	-	4.98E-03		
		-	Dagan	-	5.46E-03		
		-	Dagan	-	5.22E-03		
		-	Dagan	-	4.98E-03		
721-MW12-25	confined	Bouwer-Rice	Bouwer-Rice	9.50E-03	1.14E-02	1.03E-02	SP-sand, trace silt, fine
		Bouwer-Rice	Bouwer-Rice	9.50E-03	1.14E-02		
		Bouwer-Rice	Bouwer-Rice	9.50E-03	1.14E-02		
		Bouwer-Rice	Bouwer-Rice	9.94E-03	1.14E-02		
		Bouwer-Rice	Bouwer-Rice	9.07E-03	1.18E-02		
		Bouwer-Rice	Bouwer-Rice	9.39E-03	9.94E-03		
721-MW12-50	confined	Bouwer-Rice	Bouwer-Rice	7.90E-02	6.88E-02	7.27E-02	SP-sand, trace silt, fine to SP-sand, fine to medium
		Bouwer-Rice	Bouwer-Rice	7.90E-02	6.57E-02		
		Bouwer-Rice	Bouwer-Rice	8.66E-02	6.57E-02		
		Bouwer-Rice	Bouwer-Rice	7.90E-02	5.22E-02		
		Bouwer-Rice	Bouwer-Rice	9.07E-02	6.88E-02		
721-MW13-15	unconfined	-	Dagan	-	1.09E-02	1.03E-02	SP-sand, with silt, very fine to medium
		-	Dagan	-	1.09E-02		
		-	Dagan	-	1.03E-02		
		-	Dagan	-	9.94E-03		
		-	Dagan	-	9.50E-03		
721-MW13-25	confined	Bouwer-Rice	Bouwer-Rice	8.66E-03	1.09E-02	9.80E-03	SP-sand, trace silt and gravel, fine to medium
		Bouwer-Rice	Bouwer-Rice	9.07E-03	1.04E-02		
		Bouwer-Rice	Bouwer-Rice	9.07E-03	1.09E-02		
		Bouwer-Rice	Bouwer-Rice	9.07E-03	1.04E-02		
		Bouwer-Rice	Bouwer-Rice	9.50E-03	1.04E-02		
721-MW13-50	confined	Bouwer-Rice	Bouwer-Rice	1.51E-02	1.90E-02	1.69E-02	SP-sand, trace silt, fine to medium
		Bouwer-Rice	Bouwer-Rice	1.51E-02	1.90E-02		
		Bouwer-Rice	Bouwer-Rice	1.51E-02	1.81E-02		
		Bouwer-Rice	Bouwer-Rice	1.58E-02	1.90E-02		
		Bouwer-Rice	Bouwer-Rice	1.51E-02	1.81E-02		
		Bouwer-Rice	Bouwer-Rice	1.51E-02	1.90E-02		

TABLE 2

SINGLE-WELL RESPONSE TEST RESULTS
 AQUIFER TESTING TECHNICAL MEMORANDUM
 COMPREHENSIVE SUPPLEMENTAL INVESTIGATION
 OCCIDENTAL CHEMICAL CORPORATION, TACOMA, WA

Well ID	Aquifer Condition Confined/Unconfined	Analytical Method ⁽¹⁾		Hydraulic Conductivity		Geometric Mean (cm/sec)	Screened Material
		Falling Head Tests	Rising Head Tests	Falling Head Tests (cm/sec)	Rising Head Tests		
721-MW14-15	unconfined	-	Dagan	-	7.20E-03	7.72E-03	SP-sand, with silt, medium
		-	Dagan	-	7.20E-03		
		-	Dagan	-	8.27E-03		
		-	Dagan	-	8.27E-03		
		-	Dagan	-	7.54E-03		
		-	Dagan	-	7.90E-03		
721-MW14-25	confined	Bouwer-Rice	Bouwer-Rice	5.99E-03	6.27E-03	5.99E-03	SP-sand, with silt, fine to medium to SM-silty sand, fine to medium
		Bouwer-Rice	Bouwer-Rice	5.72E-03	6.57E-03		
		Bouwer-Rice	Bouwer-Rice	5.46E-03	6.27E-03		
		Bouwer-Rice	Bouwer-Rice	5.72E-03	6.57E-03		
		Bouwer-Rice	Bouwer-Rice	5.46E-03	6.27E-03		
		Bouwer-Rice	Bouwer-Rice	5.46E-03	6.27E-03		
721-MW14-50	confined	Butler	Butler	1.04E-01	5.72E-02	6.75E-02	SP-sand, with silt and clay lumps, fine
		Butler	Butler	7.90E-02	4.34E-02		
		Butler	Butler	9.50E-02	4.55E-02		
		Butler	Butler	9.94E-02	4.98E-02		
		Butler	Butler	9.07E-02	4.15E-02		
		Butler	Butler	9.94E-02	5.46E-02		
721-MW15-15	unconfined	-	Dagan	-	4.16E-03	4.20E-03	SP-sand, trace silt and gravel, fine to medium to SP-sand, with silt and clay lumps, fine to medium
		-	Dagan	-	4.16E-03		
		-	Dagan	-	3.98E-03		
		-	Dagan	-	4.36E-03		
		-	Dagan	-	4.36E-03		
721-MW15-25	confined	Bouwer-Rice	Bouwer-Rice	9.94E-03	1.31E-02	1.14E-02	SP-silty sand, fine to medium to SP-sand, trace silt, fine to medium
		Bouwer-Rice	Bouwer-Rice	9.50E-03	1.25E-02		
		Bouwer-Rice	Bouwer-Rice	1.04E-02	1.25E-02		
		Bouwer-Rice	Bouwer-Rice	9.94E-03	1.31E-02		
		Bouwer-Rice	Bouwer-Rice	1.04E-02	1.31E-02		
721-MW15-50	confined	Butler	Butler	7.54E-02	9.50E-02	7.74E-02	SP-sand, trace silt, fine
		Butler	Butler	7.20E-02	8.27E-02		
		Butler	Butler	7.54E-02	7.20E-02		
		Butler	Butler	7.90E-02	7.90E-02		
		Butler	Butler	7.20E-02	7.90E-02		
		Butler	Butler	7.12E-02	7.90E-02		

ATTACHMENT 1
SINGLE WELL RESPONSE TEST RESULT



10-24 FALLING HEAD TEST 1

Data Set: N:\...\10-24-FH1.aqt

Date: 05/02/13

Time: 10:11:07

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 10-24

Test Date: March 3, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.005991 cm/sec

y0 = 1.978 ft

AQUIFER DATA

Saturated Thickness: 5.31 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (10-24)

Initial Displacement: 2.5 ft

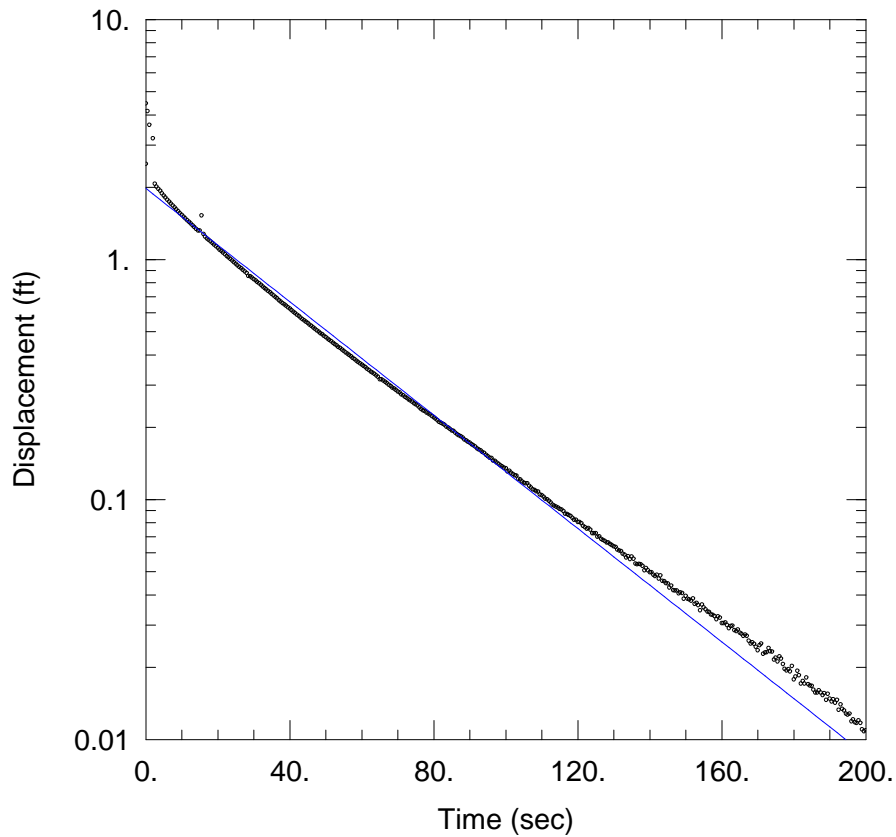
Total Well Penetration Depth: 5.31 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.05 ft

Screen Length: 2.31 ft

Well Radius: 0.3438 ft



10-24 FALLING HEAD TEST 2

Data Set: N:\...\10-24-FH2.aqt

Date: 05/02/13

Time: 10:10:27

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 10-24

Test Date: March 3, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.003448 cm/sec

y0 = 1.978 ft

AQUIFER DATA

Saturated Thickness: 5.31 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (10-24)

Initial Displacement: 2.5 ft

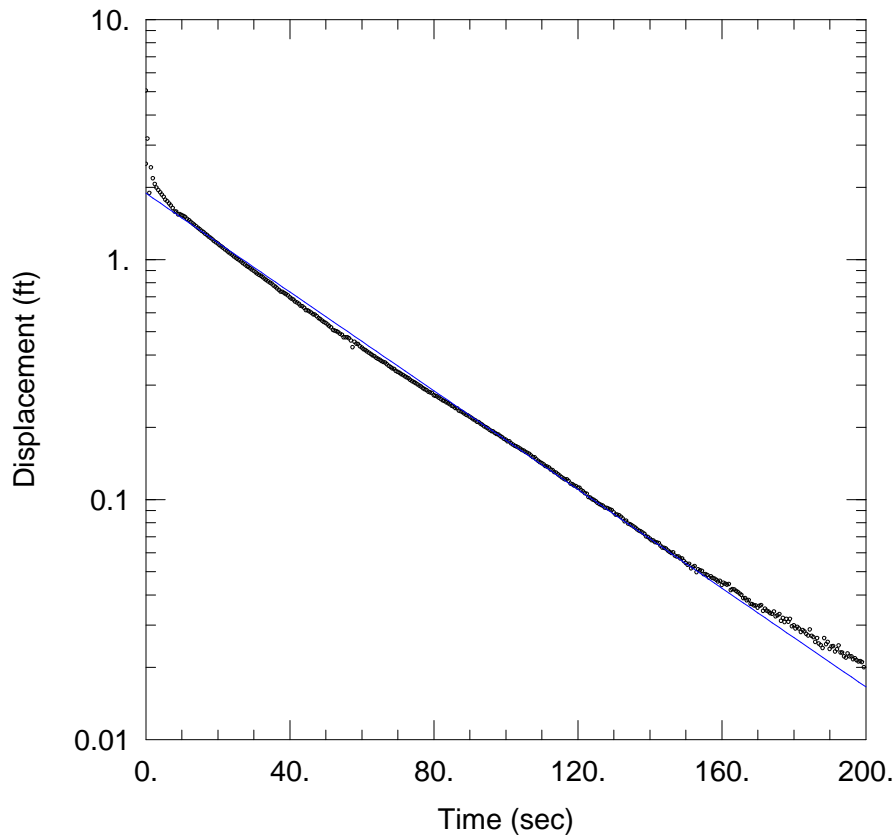
Total Well Penetration Depth: 5.31 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.05 ft

Screen Length: 2.31 ft

Well Radius: 0.3438 ft



10-24 FALLING HEAD TEST 3

Data Set: N:\...\10-24-FH3.aqt

Date: 05/02/13

Time: 10:09:33

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 10-24

Test Date: March 3, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.003003 cm/sec

y0 = 1.889 ft

AQUIFER DATA

Saturated Thickness: 5.31 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (10-24)

Initial Displacement: 2.5 ft

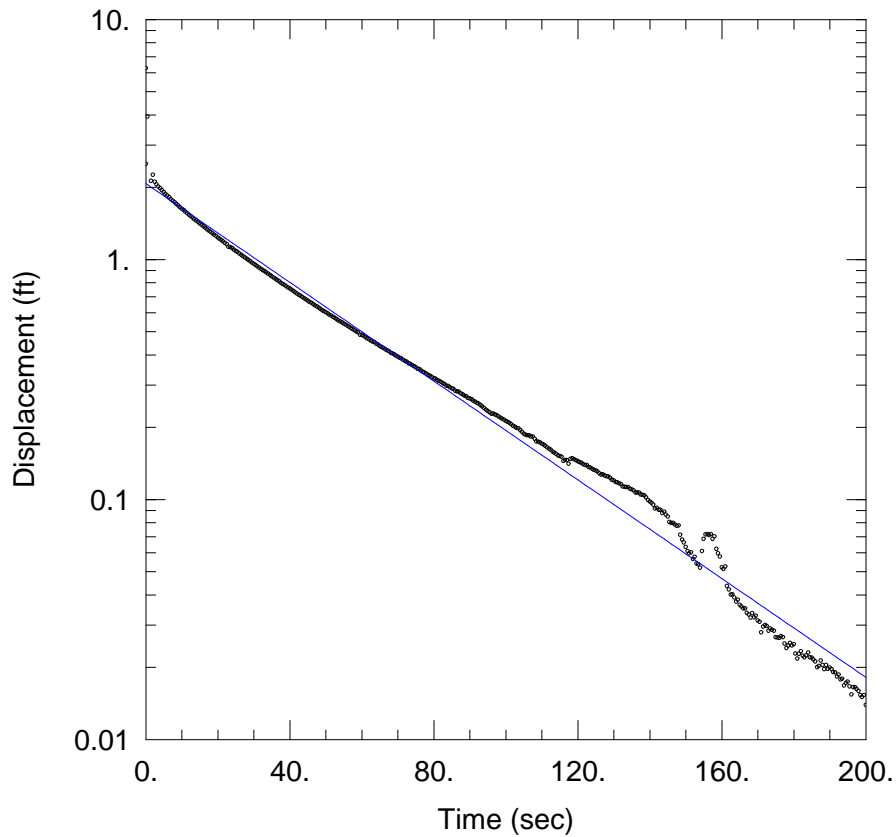
Total Well Penetration Depth: 5.31 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.05 ft

Screen Length: 2.31 ft

Well Radius: 0.3438 ft



10-24 FALLING HEAD TEST 4

Data Set: N:\...\10-24-FH4.aqt

Date: 05/02/13

Time: 10:09:20

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 10-24

Test Date: March 3, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.003003$ cm/sec

$y_0 = 2.071$ ft

AQUIFER DATA

Saturated Thickness: 5.31 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (10-24)

Initial Displacement: 2.5 ft

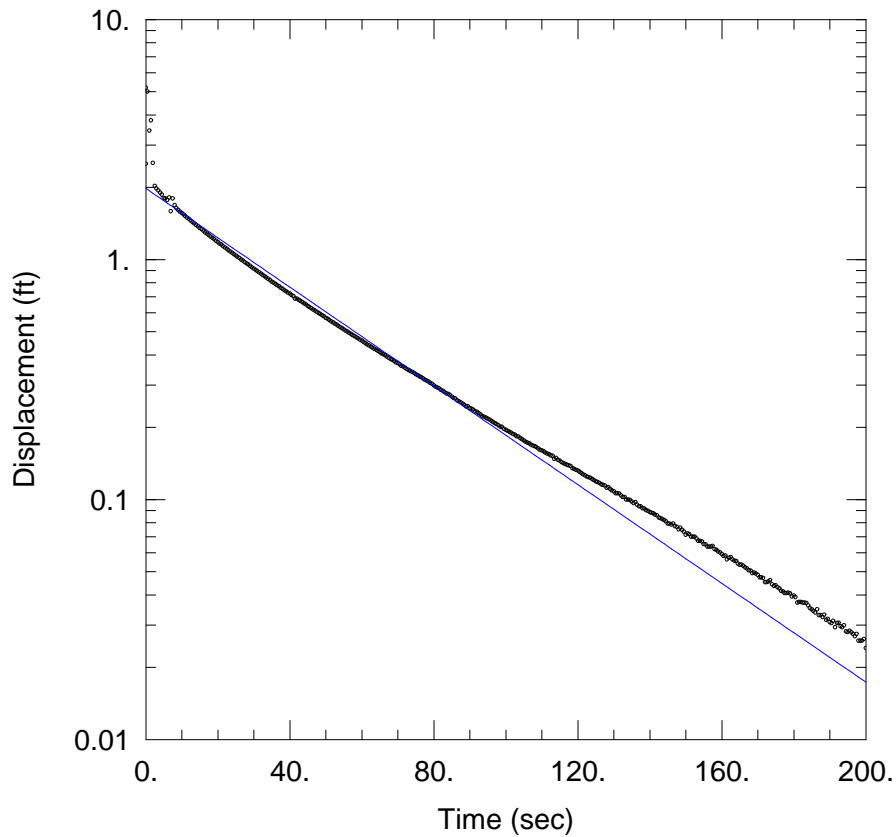
Total Well Penetration Depth: 5.31 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.05 ft

Screen Length: 2.31 ft

Well Radius: 0.3438 ft



10-24 FALLING HEAD TEST 5

Data Set: N:\...\10-24-FH5.aqt

Date: 05/02/13

Time: 10:09:05

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 10-24

Test Date: March 3, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.003003 cm/sec

y0 = 1.978 ft

AQUIFER DATA

Saturated Thickness: 5.31 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (10-24)

Initial Displacement: 2.5 ft

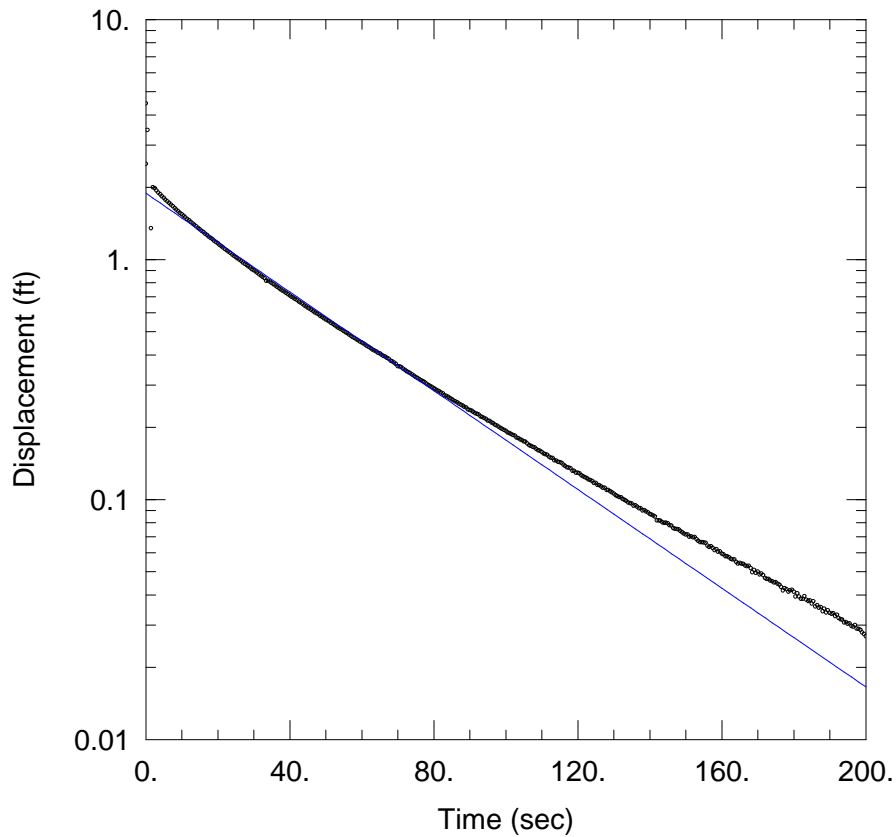
Total Well Penetration Depth: 5.31 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.05 ft

Screen Length: 2.31 ft

Well Radius: 0.3438 ft



10-24 FALLING HEAD TEST 6

Data Set: N:\...\10-24-FH6.aqt

Date: 05/02/13

Time: 10:08:49

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 10-24

Test Date: March 3, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.003003 cm/sec

y0 = 1.889 ft

AQUIFER DATA

Saturated Thickness: 5.31 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (10-24)

Initial Displacement: 2.5 ft

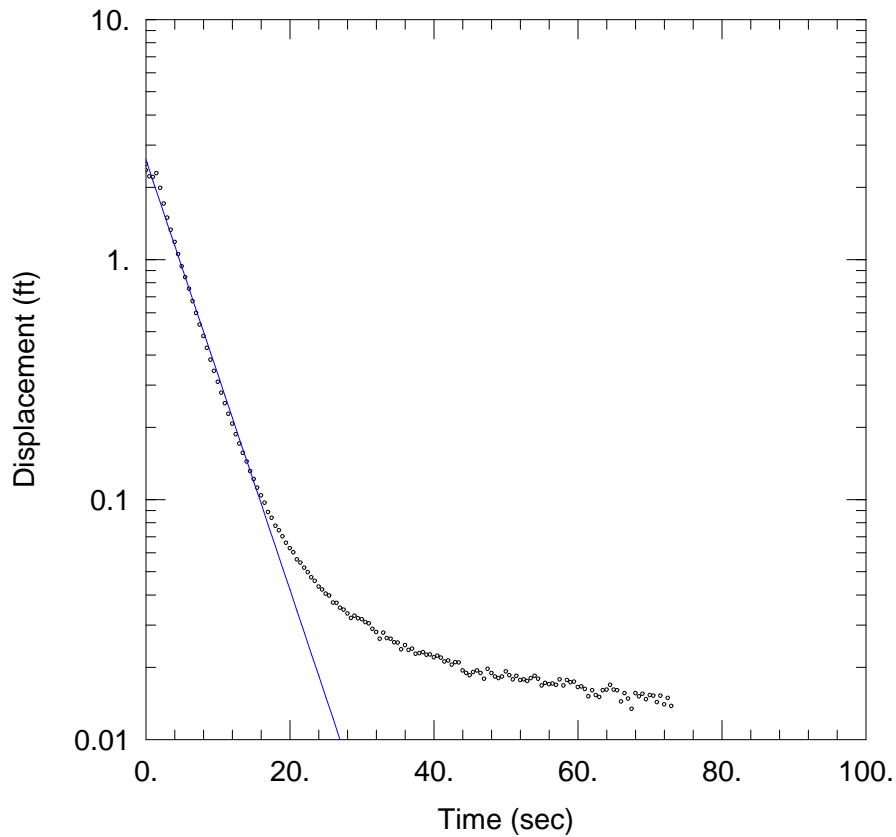
Total Well Penetration Depth: 5.31 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.05 ft

Screen Length: 2.31 ft

Well Radius: 0.3438 ft



10-24 RISING HEAD TEST 1

Data Set: N:\...\10-24-RH1.aqt

Date: 05/02/13

Time: 10:19:31

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 10-24

Test Date: March 3, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.02615$ cm/sec

$y_0 = 2.607$ ft

AQUIFER DATA

Saturated Thickness: 5.31 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (10-24)

Initial Displacement: 2.5 ft

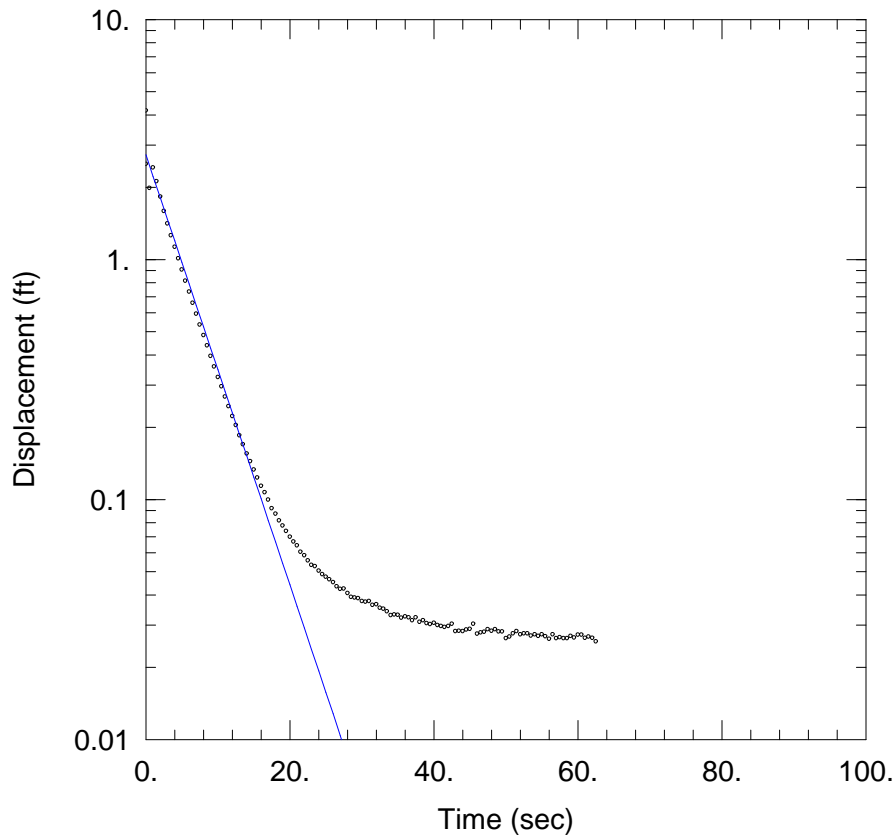
Total Well Penetration Depth: 5.31 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.05 ft

Screen Length: 2.31 ft

Well Radius: 0.3438 ft



10-24 RISING HEAD TEST 2

Data Set: N:\...\10-24-RH2.aqt

Date: 05/02/13

Time: 10:19:16

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 10-24

Test Date: March 3, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.02615$ cm/sec

$y_0 = 2.73$ ft

AQUIFER DATA

Saturated Thickness: 5.31 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (10-24)

Initial Displacement: 2.5 ft

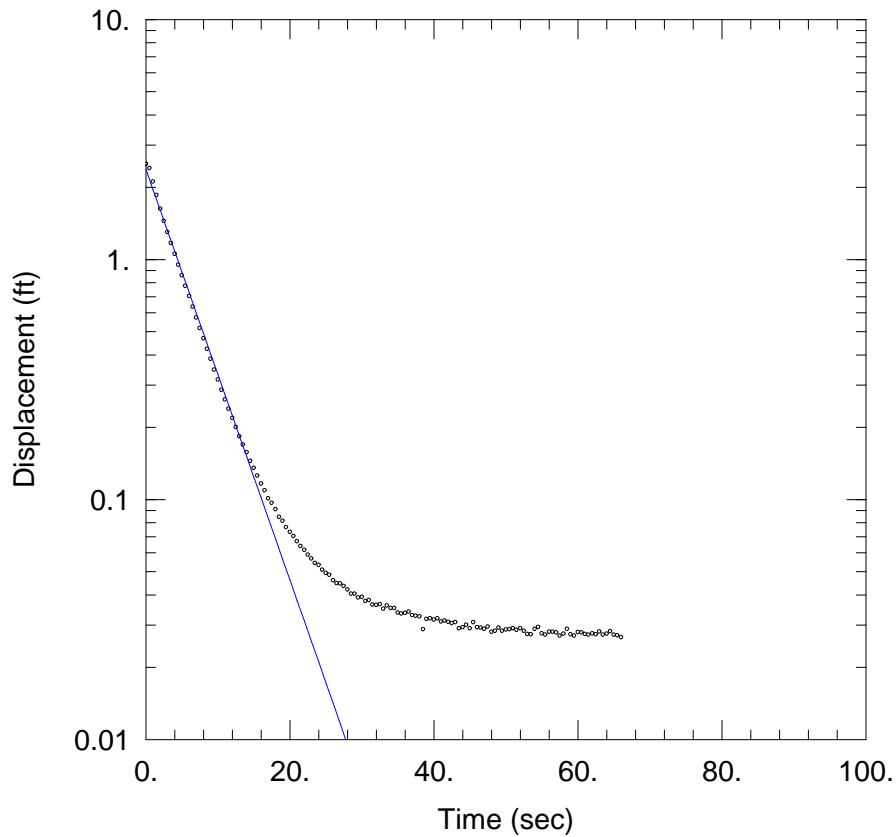
Total Well Penetration Depth: 5.31 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.05 ft

Screen Length: 2.31 ft

Well Radius: 0.3438 ft



10-24 RISING HEAD TEST 3

Data Set: N:\...\10-24-RH3.aqt
 Date: 05/02/13 Time: 10:19:01

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 10-24
 Test Date: March 3, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.02498$ cm/sec
 $y_0 = 2.378$ ft

AQUIFER DATA

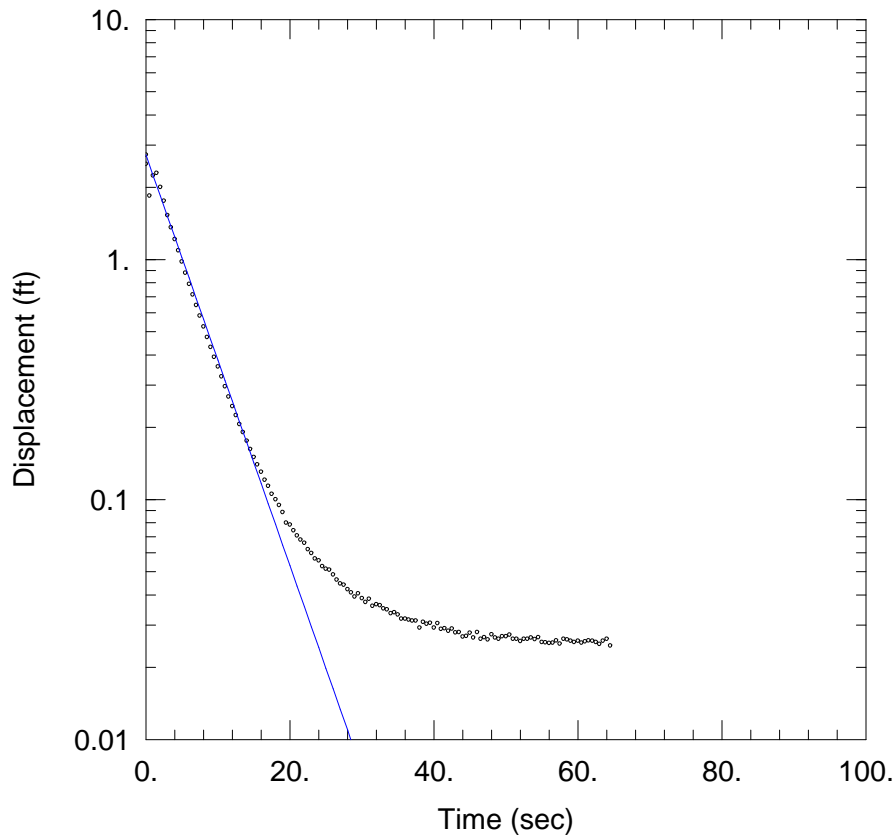
Saturated Thickness: 5.31 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (10-24)

Initial Displacement: 2.5 ft
 Total Well Penetration Depth: 5.31 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 15.05 ft
 Screen Length: 2.31 ft
 Well Radius: 0.3438 ft



10-24 RISING HEAD TEST 4

Data Set: N:\...\10-24-RH4.aqt

Date: 05/02/13

Time: 10:18:47

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 10-24

Test Date: March 3, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.02498$ cm/sec

$y_0 = 2.73$ ft

AQUIFER DATA

Saturated Thickness: 5.31 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (10-24)

Initial Displacement: 2.5 ft

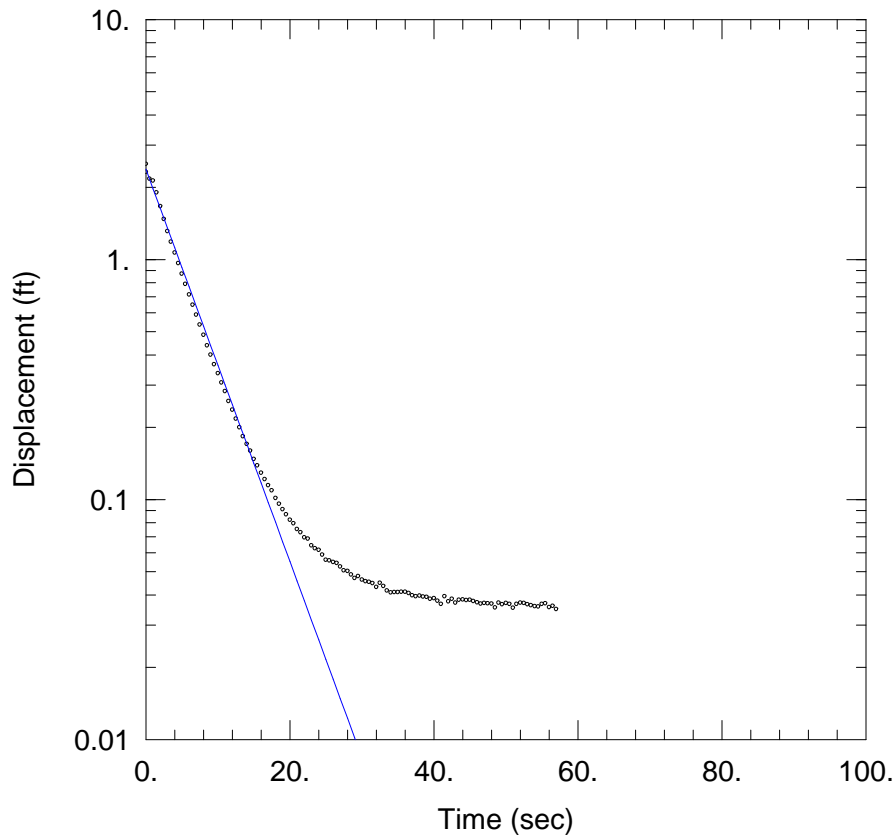
Total Well Penetration Depth: 5.31 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.05 ft

Screen Length: 2.31 ft

Well Radius: 0.3438 ft



10-24 RISING HEAD TEST 5

Data Set: N:\...\10-24-RH5.aqt
 Date: 05/02/13 Time: 10:18:31

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 10-24
 Test Date: March 3, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.02385$ cm/sec
 $y_0 = 2.378$ ft

AQUIFER DATA

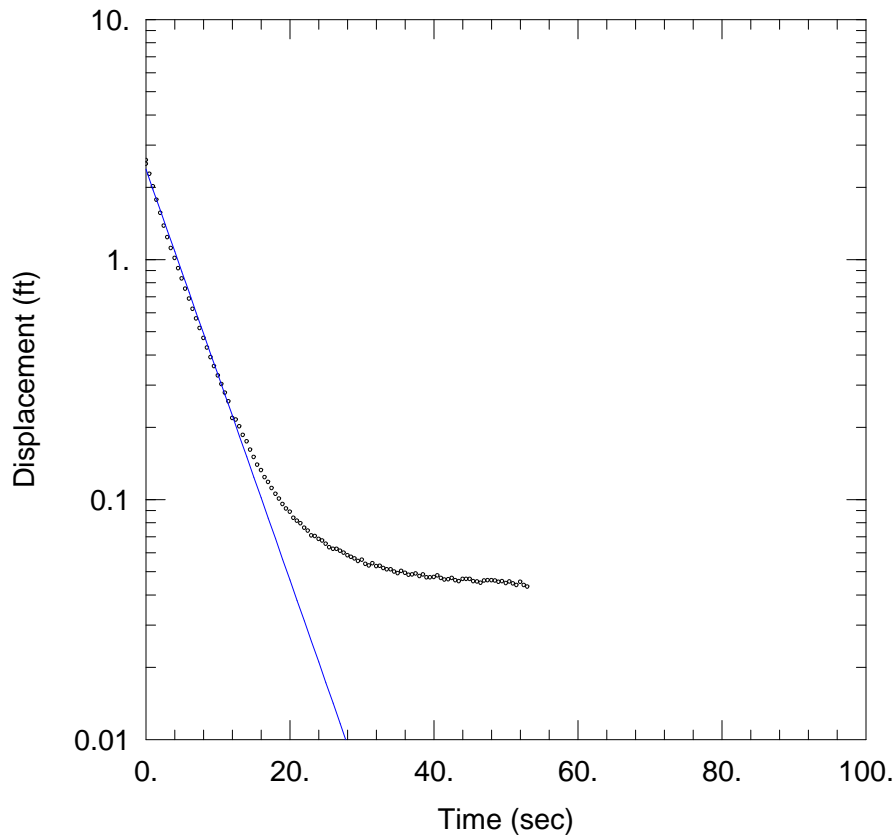
Saturated Thickness: 5.31 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (10-24)

Initial Displacement: 2.5 ft
 Total Well Penetration Depth: 5.31 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 15.05 ft
 Screen Length: 2.31 ft
 Well Radius: 0.3438 ft



10-24 RISING HEAD TEST 6

Data Set: N:\...\10-24-RH6.aqt

Date: 05/02/13

Time: 10:18:17

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 10-24

Test Date: March 3, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.02498 cm/sec

y0 = 2.378 ft

AQUIFER DATA

Saturated Thickness: 5.31 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (10-24)

Initial Displacement: 2.5 ft

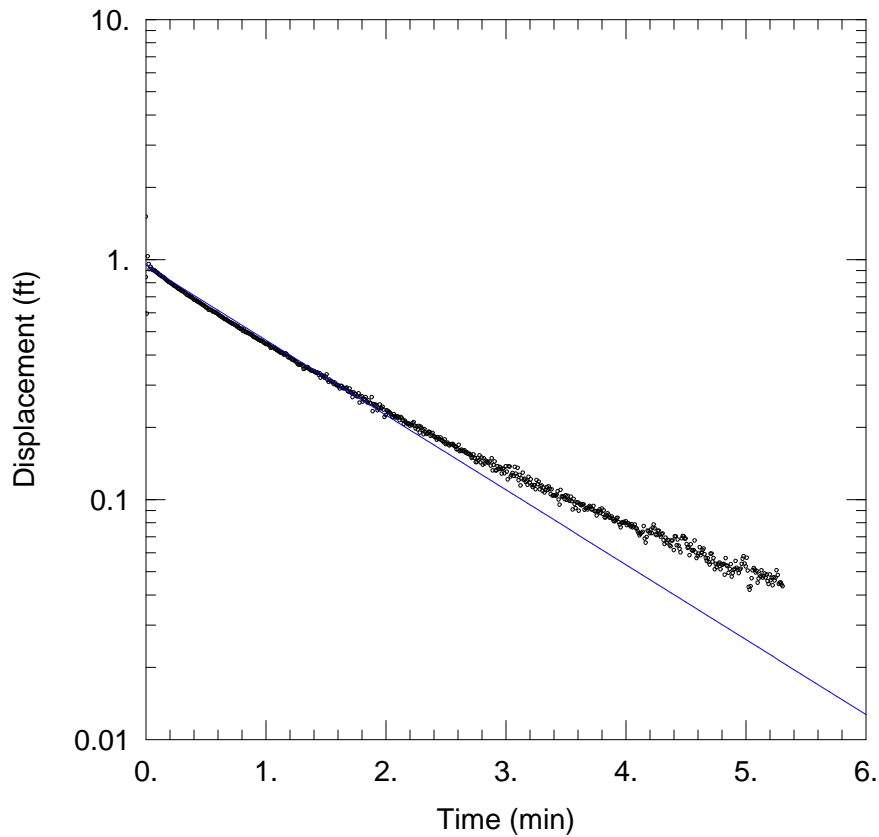
Total Well Penetration Depth: 5.31 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.05 ft

Screen Length: 2.31 ft

Well Radius: 0.3438 ft



11-45 FALLING HEAD TEST 1

Data Set: N:\...\11-45-FH1.aqt

Date: 05/02/13

Time: 11:30:59

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 11-45

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01807 cm/sec

y0 = 0.9465 ft

AQUIFER DATA

Saturated Thickness: 16.19 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (11-45)

Initial Displacement: 0.8438 ft

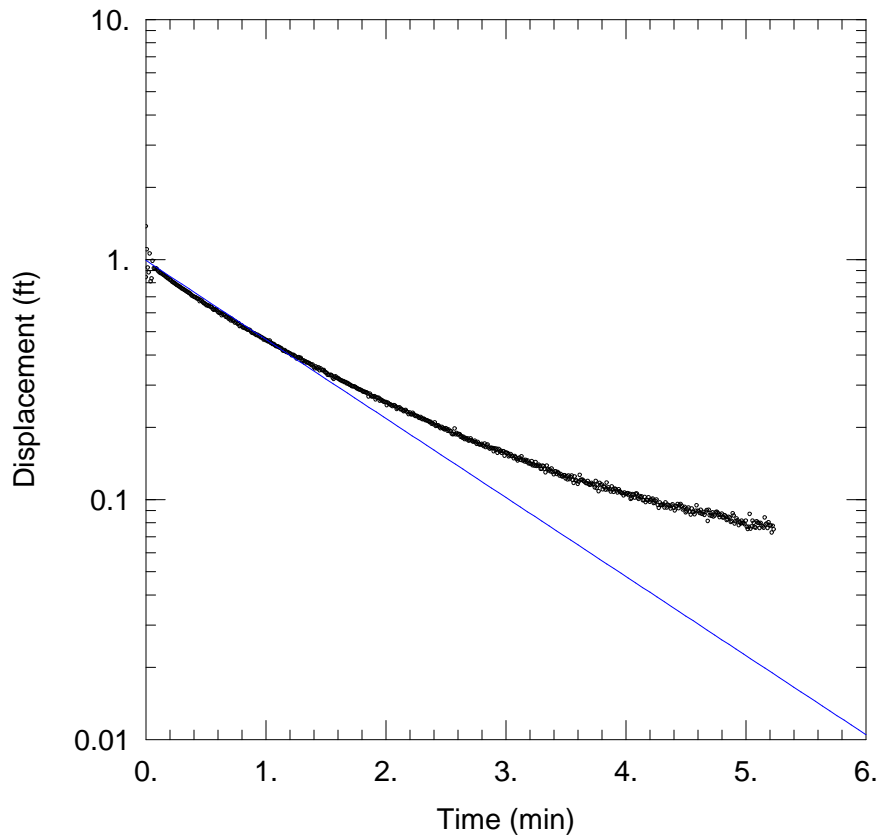
Total Well Penetration Depth: 16.19 ft

Casing Radius: 0.167 ft

Static Water Column Height: 31.29 ft

Screen Length: 9.19 ft

Well Radius: 0.333 ft



11-45 FALLING HEAD TEST 2

Data Set: N:\...\11-45-FH2.aqt

Date: 05/02/13

Time: 11:30:46

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 11-45

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01908 cm/sec

y0 = 0.9911 ft

AQUIFER DATA

Saturated Thickness: 16.19 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (11-45)

Initial Displacement: 0.8438 ft

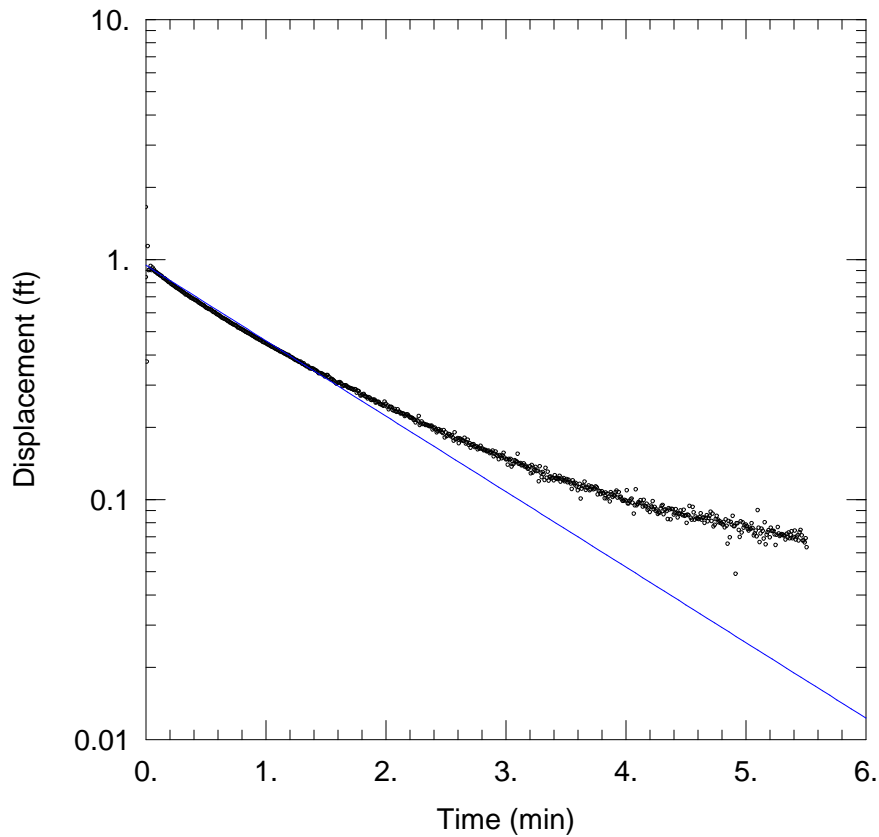
Total Well Penetration Depth: 16.19 ft

Casing Radius: 0.167 ft

Static Water Column Height: 31.29 ft

Screen Length: 9.19 ft

Well Radius: 0.333 ft



11-45 FALLING HEAD TEST 3

Data Set: N:\...\11-45-FH3.aqt

Date: 05/02/13

Time: 11:30:32

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 11-45

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01822 cm/sec

y0 = 0.9465 ft

AQUIFER DATA

Saturated Thickness: 16.19 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (11-45)

Initial Displacement: 0.8438 ft

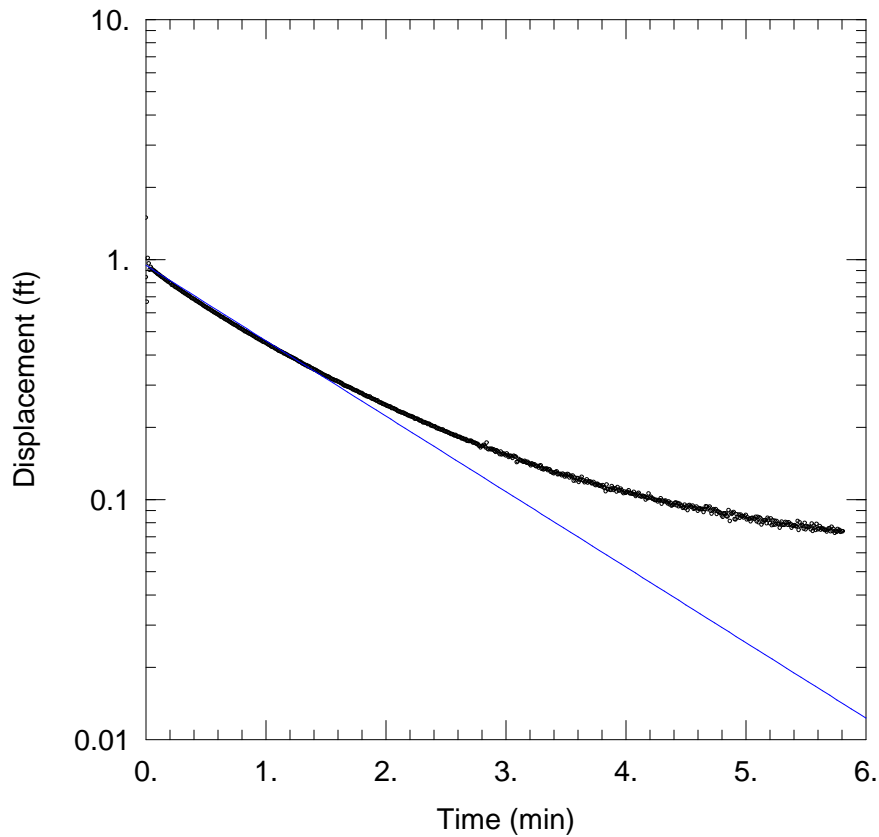
Total Well Penetration Depth: 16.19 ft

Casing Radius: 0.167 ft

Static Water Column Height: 31.29 ft

Screen Length: 9.19 ft

Well Radius: 0.333 ft



11-45 FALLING HEAD TEST 4

Data Set: N:\...\11-45-FH4.aqt

Date: 05/02/13

Time: 11:30:19

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 11-45

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01822 cm/sec

y0 = 0.9465 ft

AQUIFER DATA

Saturated Thickness: 16.19 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (11-45)

Initial Displacement: 0.8438 ft

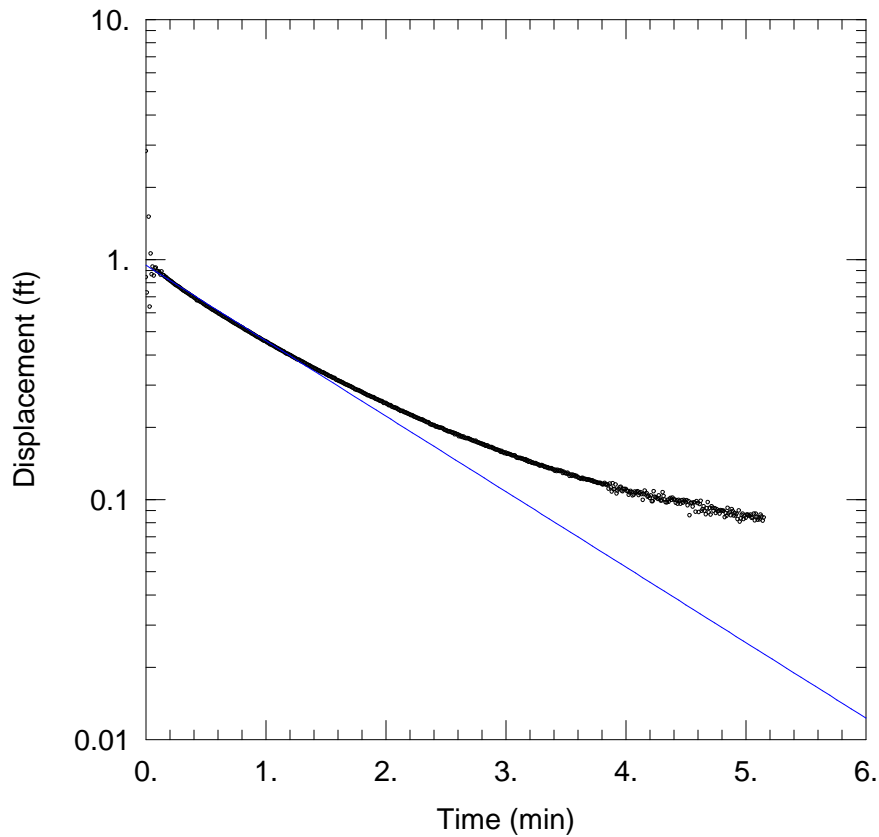
Total Well Penetration Depth: 16.19 ft

Casing Radius: 0.167 ft

Static Water Column Height: 31.29 ft

Screen Length: 9.19 ft

Well Radius: 0.333 ft



11-45 FALLING HEAD TEST 5

Data Set: N:\...\11-45-FH5.aqt

Date: 05/02/13

Time: 11:30:06

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 11-45

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01822 cm/sec

y0 = 0.9465 ft

AQUIFER DATA

Saturated Thickness: 16.19 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (11-45)

Initial Displacement: 0.8438 ft

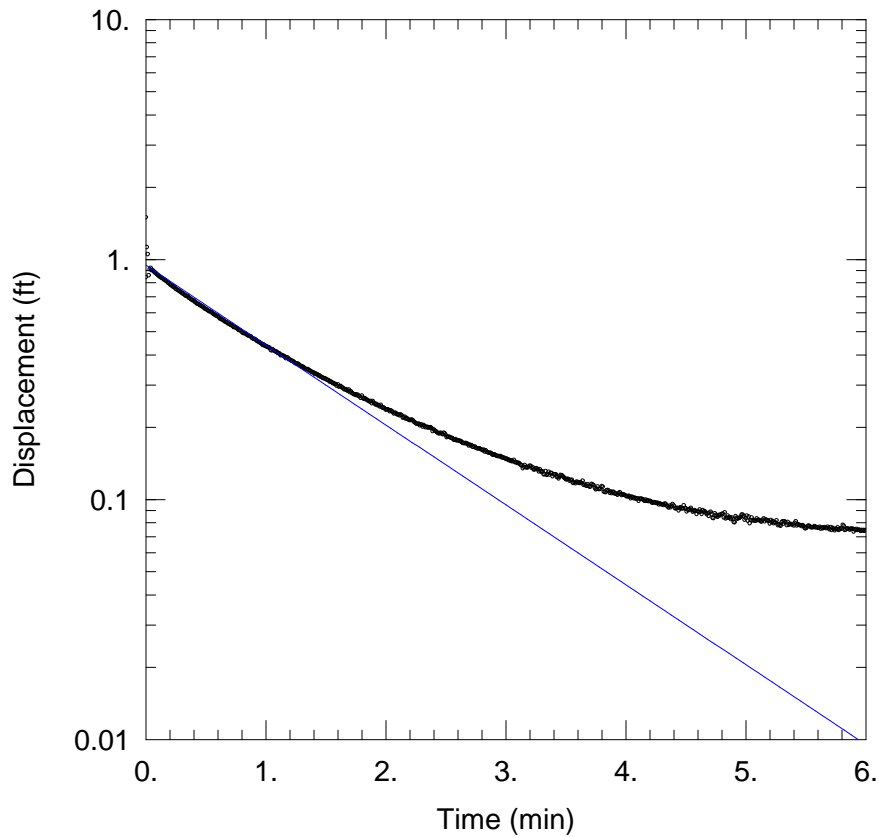
Total Well Penetration Depth: 16.19 ft

Casing Radius: 0.167 ft

Static Water Column Height: 31.29 ft

Screen Length: 9.19 ft

Well Radius: 0.333 ft



11-45 FALLING HEAD TEST 6

Data Set: N:\...\11-45-FH6.aqt

Date: 05/02/13

Time: 11:29:50

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 11-45

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01928 cm/sec

y0 = 0.9465 ft

AQUIFER DATA

Saturated Thickness: 16.19 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (11-45)

Initial Displacement: 0.8438 ft

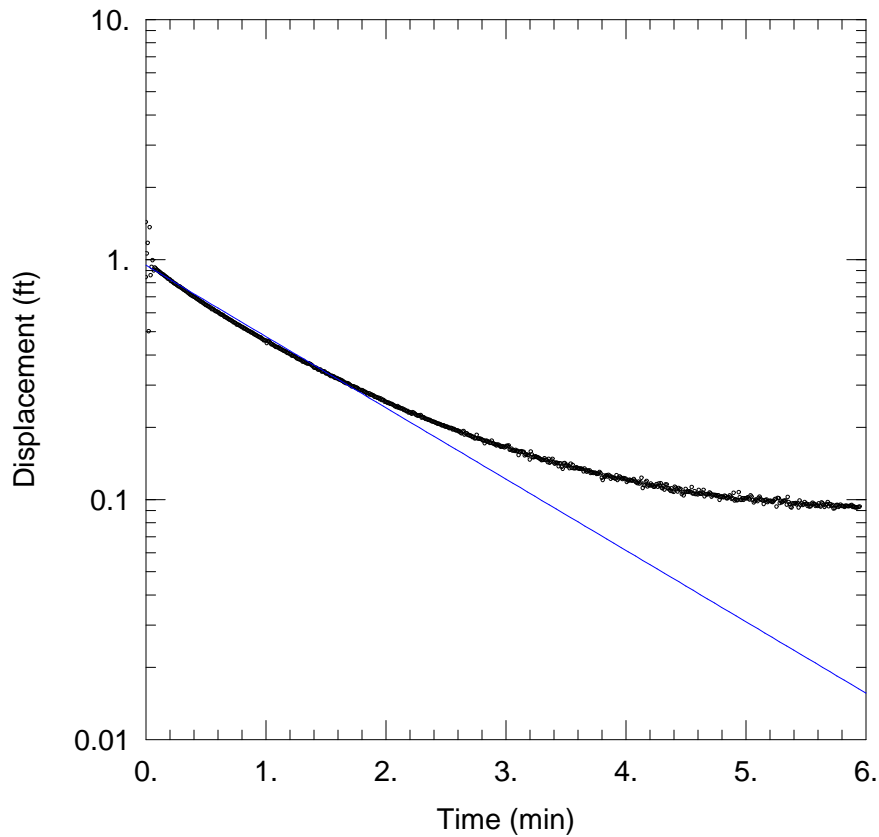
Total Well Penetration Depth: 16.19 ft

Casing Radius: 0.167 ft

Static Water Column Height: 31.29 ft

Screen Length: 9.19 ft

Well Radius: 0.333 ft



11-45 FALLING HEAD TEST 7

Data Set: N:\...\11-45-FH7.aqt

Date: 05/02/13

Time: 11:29:35

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 11-45

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01721 cm/sec

y0 = 0.9465 ft

AQUIFER DATA

Saturated Thickness: 16.19 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (11-45)

Initial Displacement: 0.8438 ft

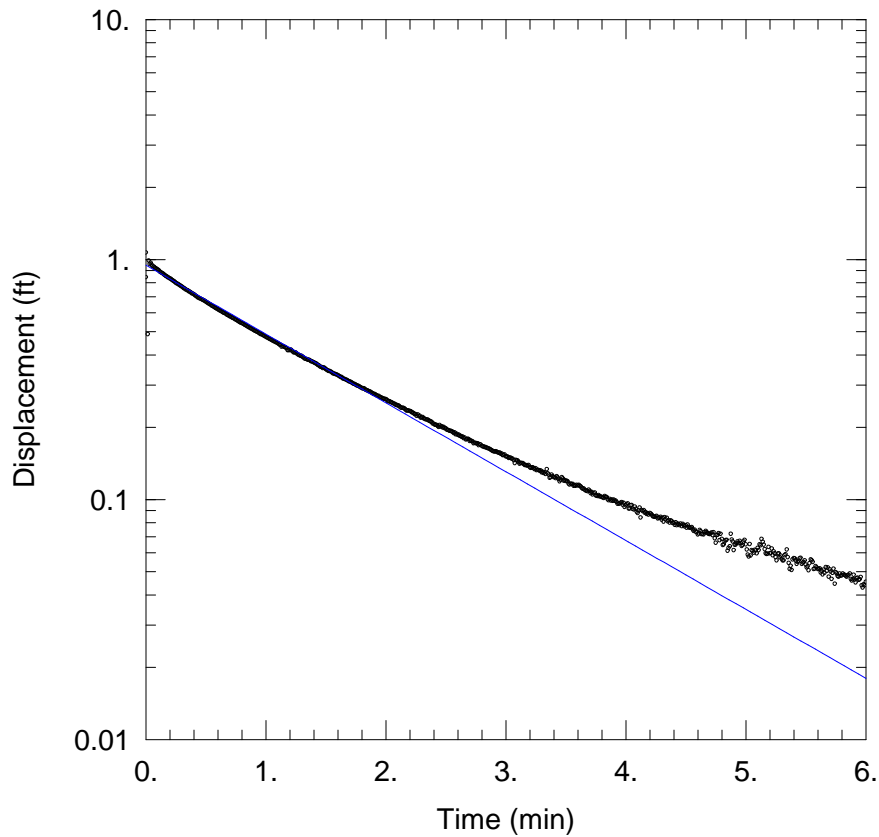
Total Well Penetration Depth: 16.19 ft

Casing Radius: 0.167 ft

Static Water Column Height: 31.29 ft

Screen Length: 9.19 ft

Well Radius: 0.333 ft



11-45 RISING HEAD TEST 1

Data Set: N:\...\11-45-RH1.aqt

Date: 05/02/13

Time: 11:47:12

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 11-45

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01661 cm/sec

y0 = 0.9465 ft

AQUIFER DATA

Saturated Thickness: 16.19 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (11-45)

Initial Displacement: 0.8438 ft

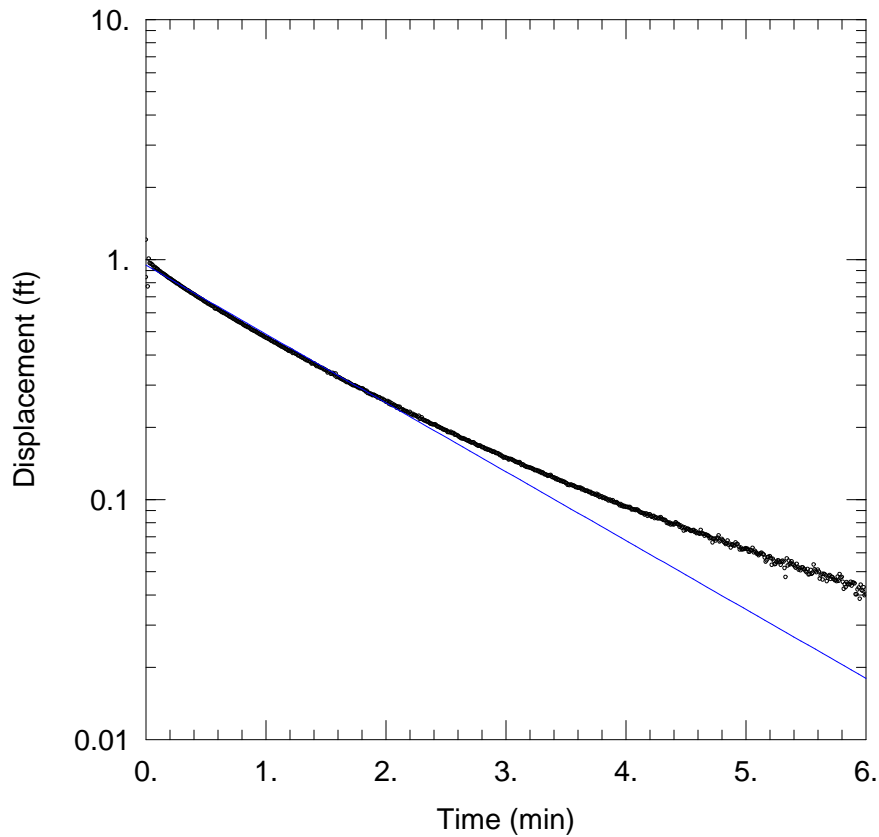
Total Well Penetration Depth: 16.19 ft

Casing Radius: 0.167 ft

Static Water Column Height: 31.29 ft

Screen Length: 9.19 ft

Well Radius: 0.333 ft



11-45 RISING HEAD TEST 2

Data Set: N:\...\11-45-RH2.aqt

Date: 05/02/13

Time: 11:46:58

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 11-45

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01661 cm/sec

y0 = 0.9465 ft

AQUIFER DATA

Saturated Thickness: 16.19 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (11-45)

Initial Displacement: 0.8438 ft

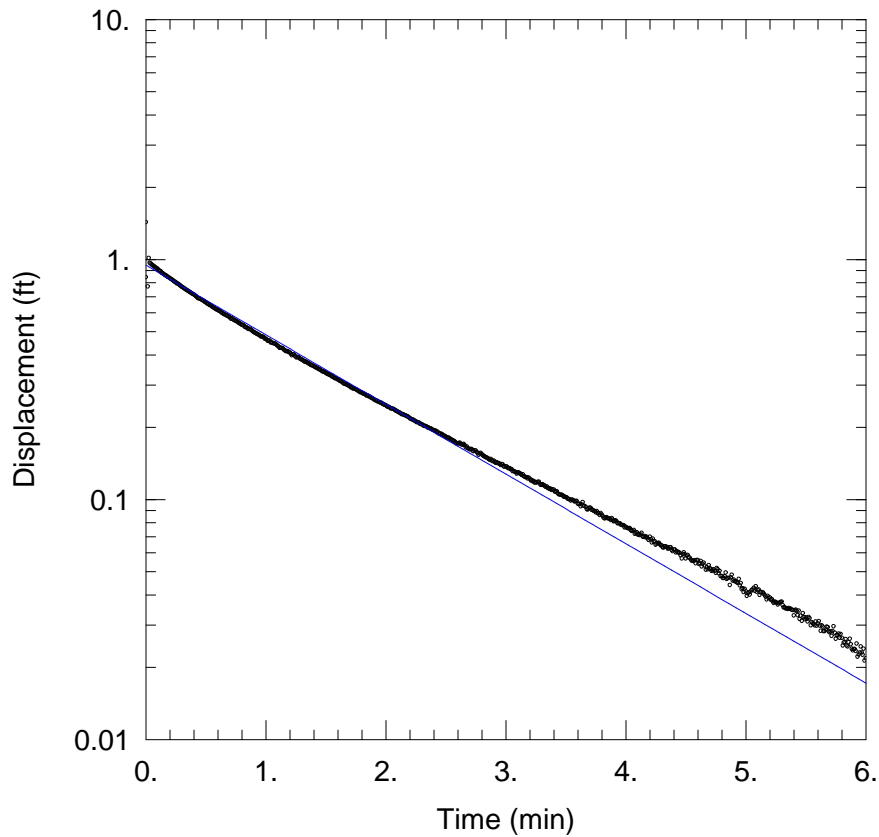
Total Well Penetration Depth: 16.19 ft

Casing Radius: 0.167 ft

Static Water Column Height: 31.29 ft

Screen Length: 9.19 ft

Well Radius: 0.333 ft



11-45 RISING HEAD TEST 3

Data Set: N:\...\11-45-RH3.aqt

Date: 05/02/13

Time: 11:46:43

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 11-45

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01681 cm/sec

y0 = 0.9465 ft

AQUIFER DATA

Saturated Thickness: 16.19 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (11-45)

Initial Displacement: 0.8438 ft

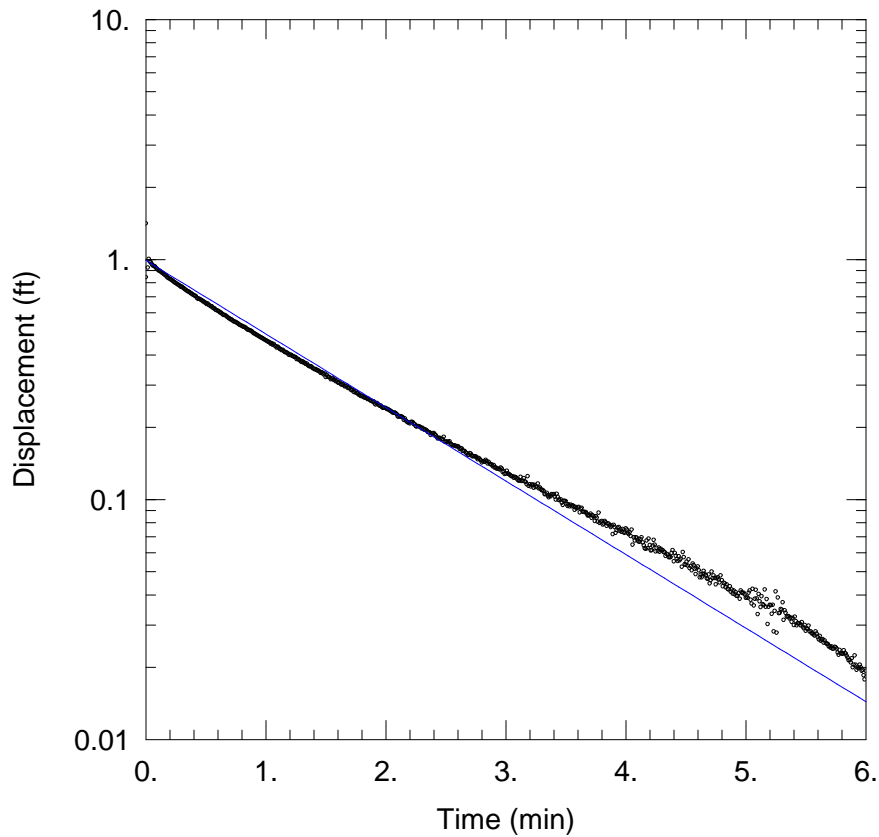
Total Well Penetration Depth: 16.19 ft

Casing Radius: 0.167 ft

Static Water Column Height: 31.29 ft

Screen Length: 9.19 ft

Well Radius: 0.333 ft



11-45 RISING HEAD TEST 4

Data Set: N:\...\11-45-RH4.aqt

Date: 05/02/13

Time: 11:46:30

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 11-45

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01775 cm/sec

y0 = 0.9911 ft

AQUIFER DATA

Saturated Thickness: 16.19 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (11-45)

Initial Displacement: 0.8438 ft

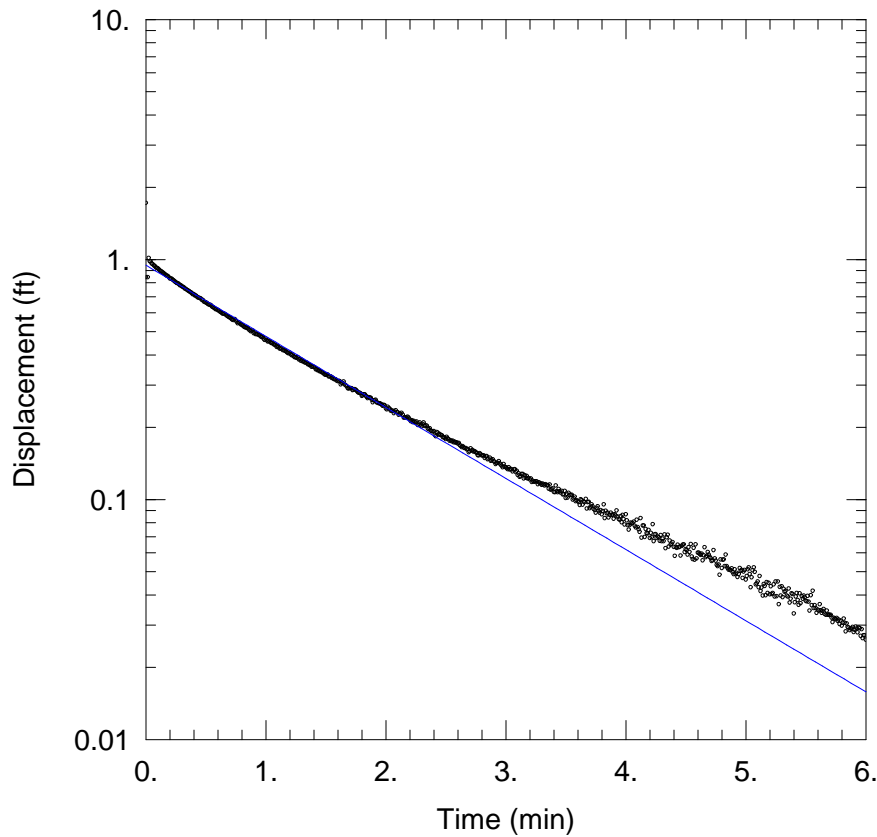
Total Well Penetration Depth: 16.19 ft

Casing Radius: 0.167 ft

Static Water Column Height: 31.29 ft

Screen Length: 9.19 ft

Well Radius: 0.333 ft



11-45 RISING HEAD TEST 5

Data Set: N:\...\11-45-RH5.aqt

Date: 05/02/13

Time: 11:46:18

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 11-45

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01716 cm/sec

y0 = 0.9465 ft

AQUIFER DATA

Saturated Thickness: 16.19 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (11-45)

Initial Displacement: 0.8438 ft

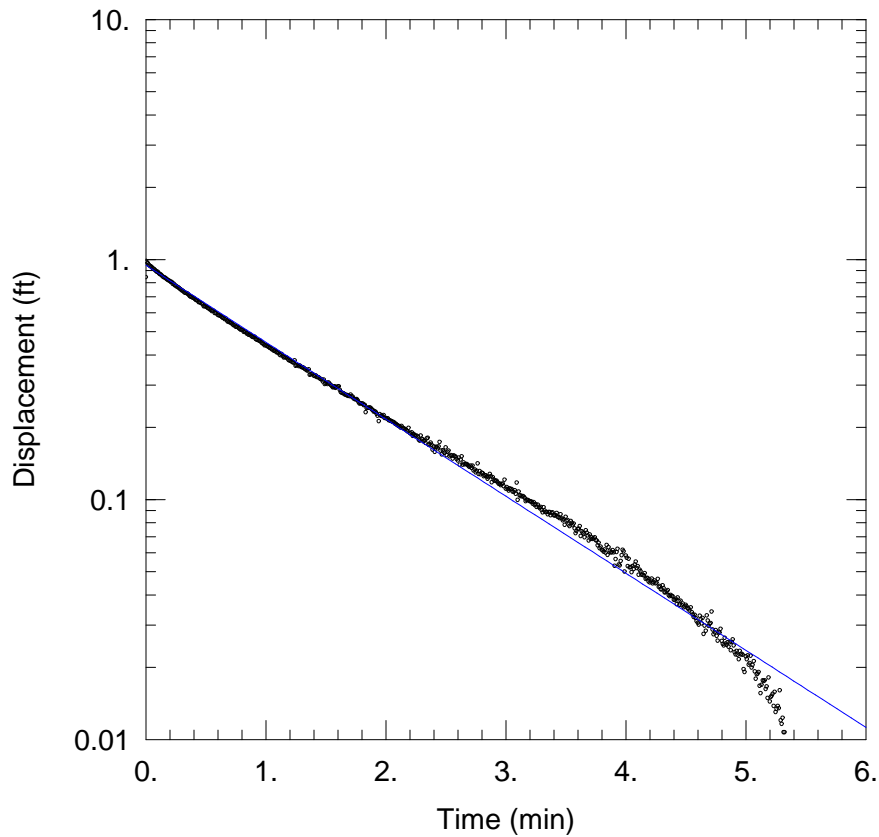
Total Well Penetration Depth: 16.19 ft

Casing Radius: 0.167 ft

Static Water Column Height: 31.29 ft

Screen Length: 9.19 ft

Well Radius: 0.333 ft



11-45 RISING HEAD TEST 6

Data Set: N:\...\11-45-RH6.aqt
 Date: 05/02/13 Time: 11:46:03

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 11-45
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.01859$ cm/sec
 $y_0 = 0.9465$ ft

AQUIFER DATA

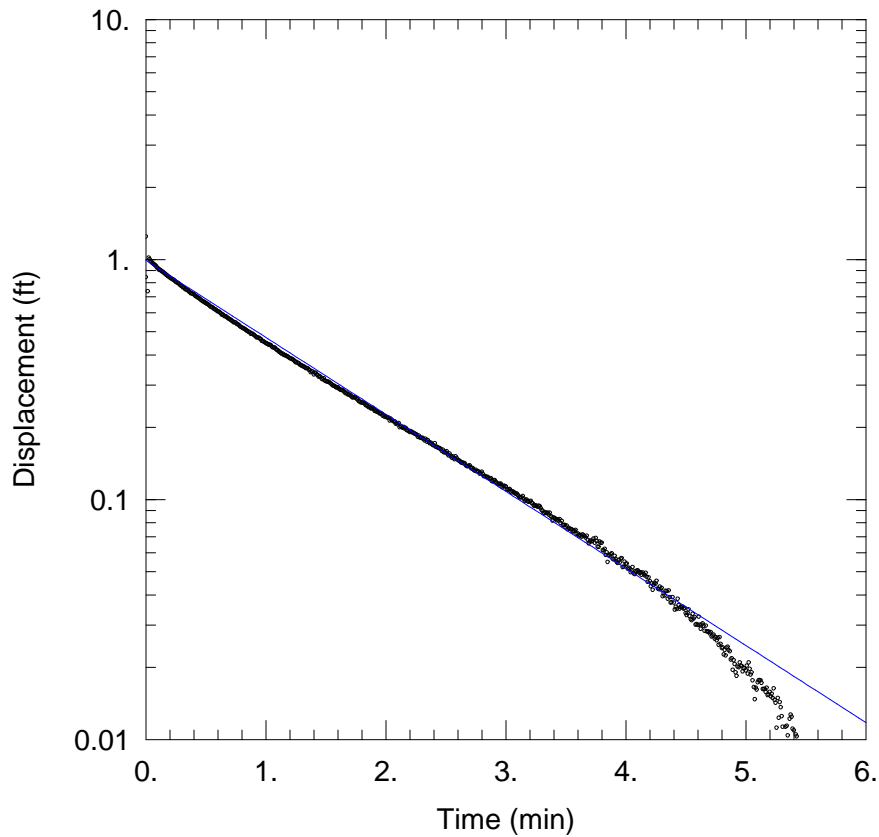
Saturated Thickness: 16.19 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (11-45)

Initial Displacement: 0.8438 ft
 Total Well Penetration Depth: 16.19 ft
 Casing Radius: 0.167 ft

Static Water Column Height: 31.29 ft
 Screen Length: 9.19 ft
 Well Radius: 0.333 ft



11-45 RISING HEAD TEST 7

Data Set: N:\...\11-45-RH7.aqt

Date: 05/02/13

Time: 11:45:50

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 11-45

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01859 cm/sec

y0 = 0.9911 ft

AQUIFER DATA

Saturated Thickness: 16.19 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (11-45)

Initial Displacement: 0.8438 ft

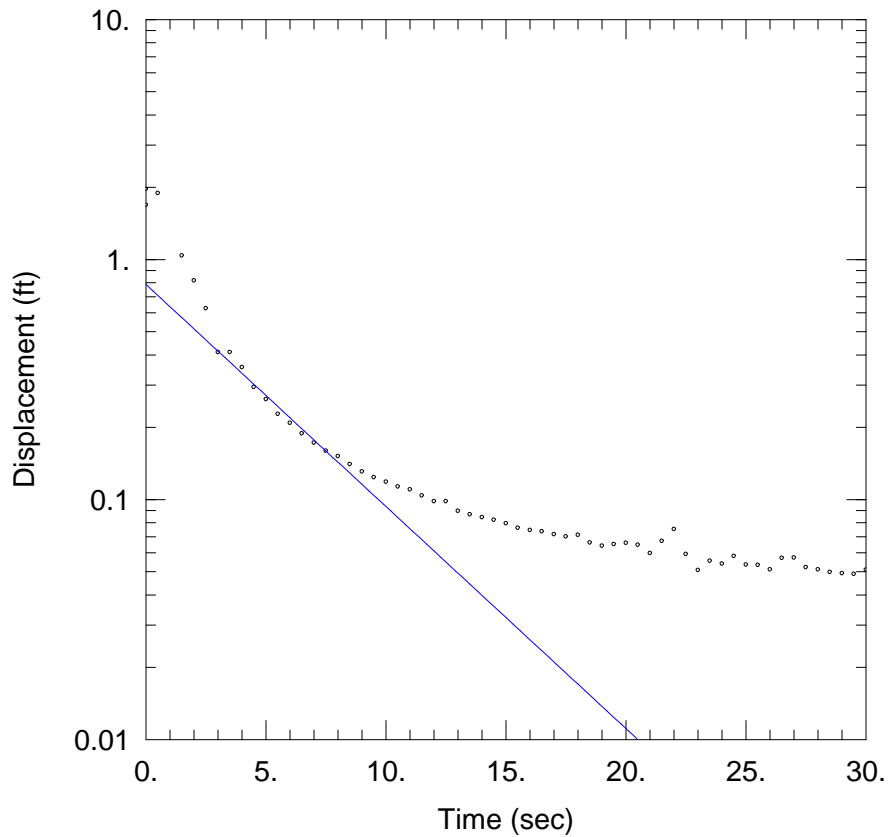
Total Well Penetration Depth: 16.19 ft

Casing Radius: 0.167 ft

Static Water Column Height: 31.29 ft

Screen Length: 9.19 ft

Well Radius: 0.333 ft



11-75 FALLING HEAD TEST 1

Data Set: N:\...\11-75-FH1.aqt

Date: 05/09/13

Time: 12:54:43

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 11-75

Test Date: February 1, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01576 cm/sec

y0 = 0.7873 ft

AQUIFER DATA

Saturated Thickness: 8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (11-75)

Initial Displacement: 1.688 ft

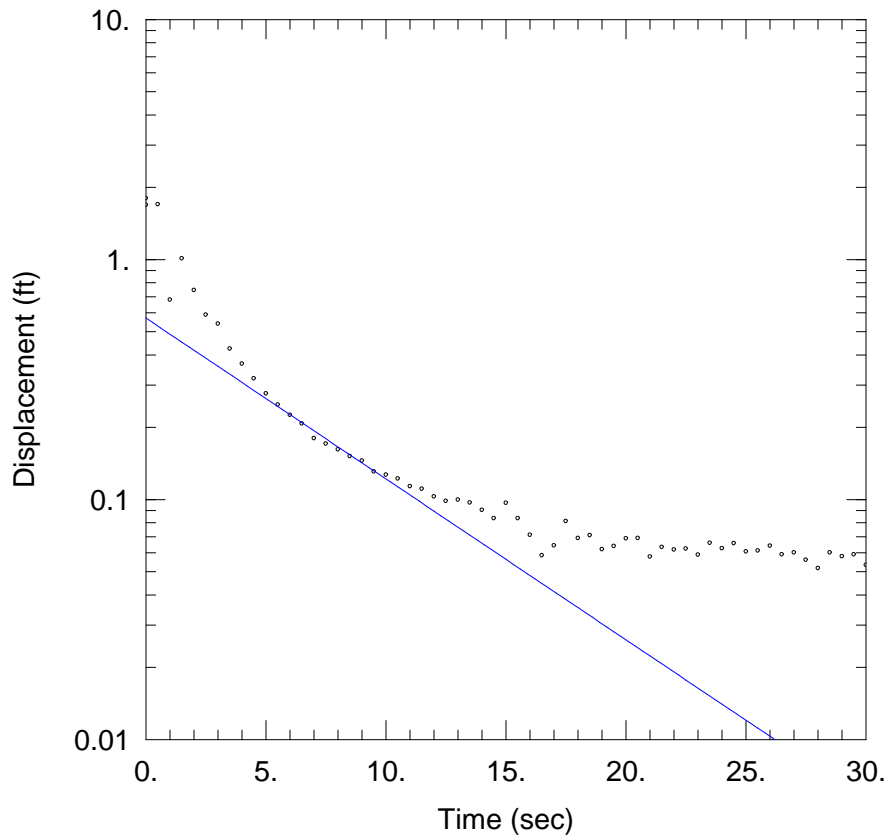
Total Well Penetration Depth: 8 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 63.74 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



11-75 FALLING HEAD TEST 2

Data Set: N:\...\11-75-FH2.aqt

Date: 05/09/13

Time: 12:54:31

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 11-75

Test Date: February 1, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01142 cm/sec

y0 = 0.5703 ft

AQUIFER DATA

Saturated Thickness: 8. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (11-75)

Initial Displacement: 1.688 ft

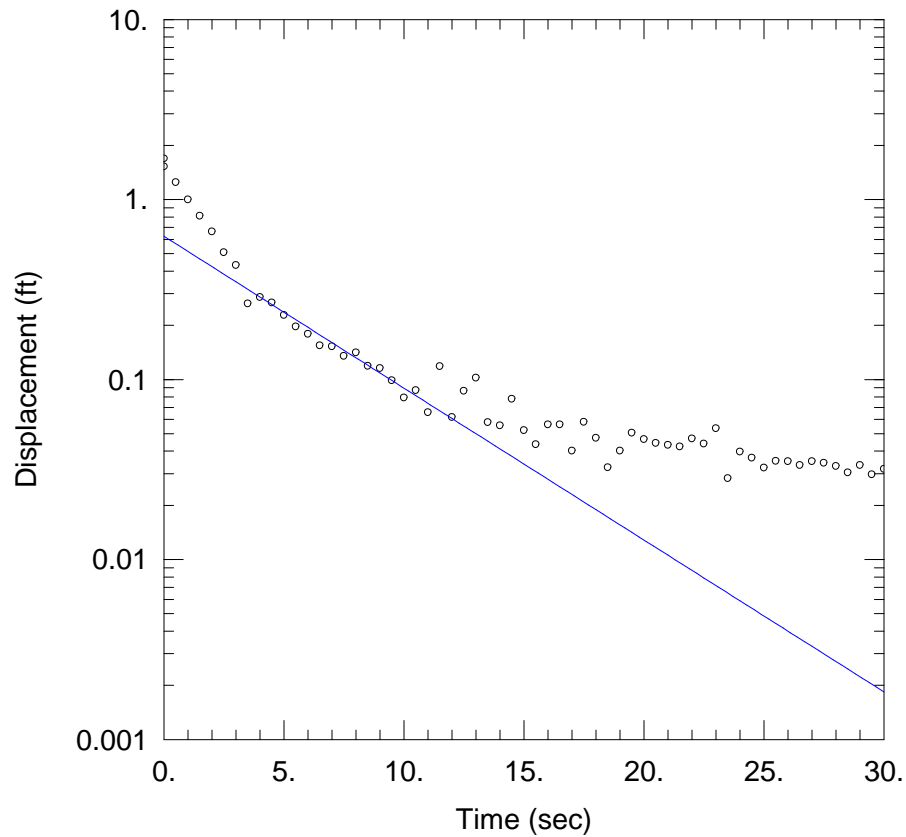
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 63.74 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



11-75 RISING HEAD TEST 1

Data Set: N:\...\11-75-RH1.aqt

Date: 05/09/13

Time: 12:54:19

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 11-75

Test Date: February 1, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01437 cm/sec

y0 = 0.6254 ft

AQUIFER DATA

Saturated Thickness: 8. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (11-75)

Initial Displacement: 1.688 ft

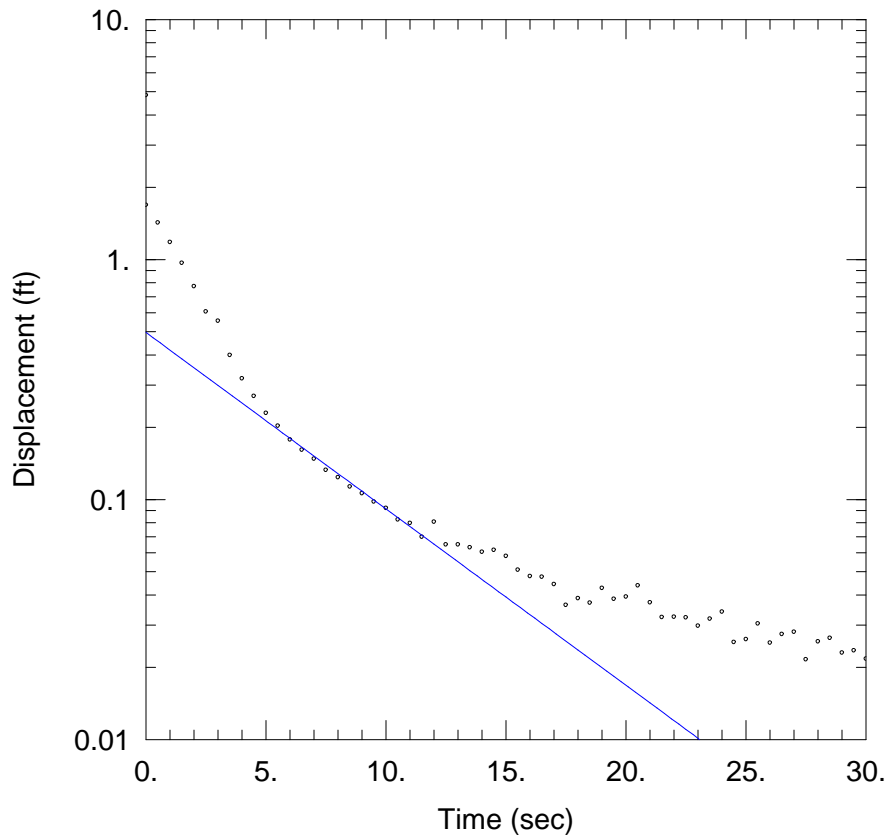
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 63.74 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



11-75 RISING HEAD TEST 2

Data Set: N:\...\11-75-RH2.aqt

Date: 05/09/13

Time: 12:54:07

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 11-75

Test Date: February 1, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01252 cm/sec

y0 = 0.4967 ft

AQUIFER DATA

Saturated Thickness: 8. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (11-75)

Initial Displacement: 1.688 ft

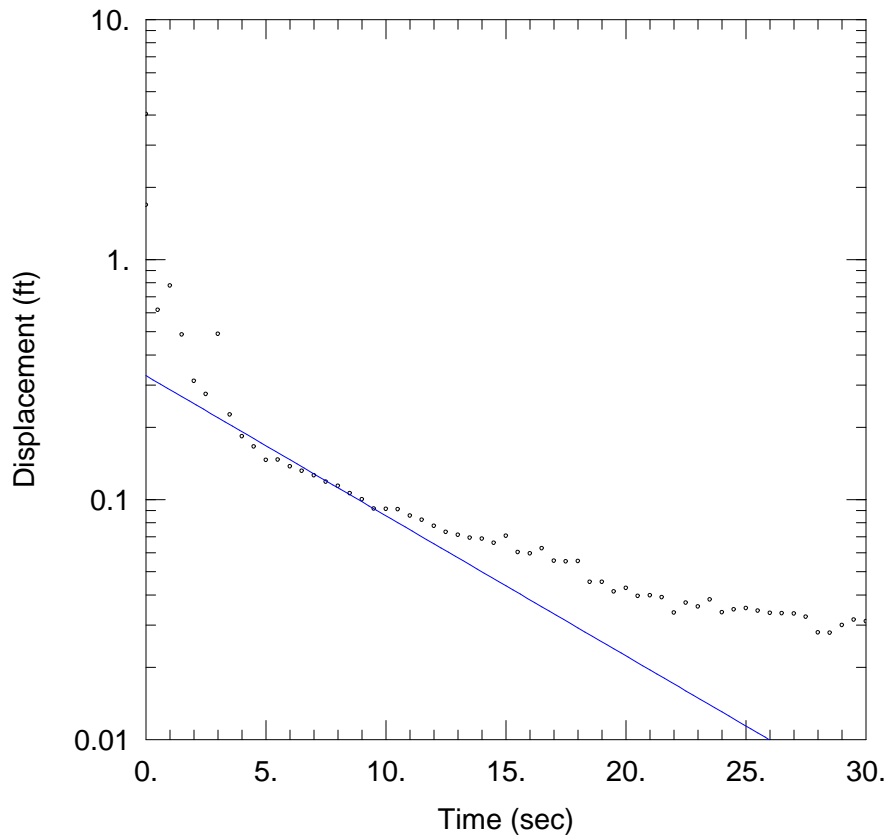
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 63.74 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



11-75 RISING HEAD TEST 4

Data Set: N:\...\11-75-RH4.aqt

Date: 05/09/13

Time: 12:53:54

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 11-75

Test Date: February 1, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.009943 cm/sec

y0 = 0.3282 ft

AQUIFER DATA

Saturated Thickness: 8. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (11-75)

Initial Displacement: 1.688 ft

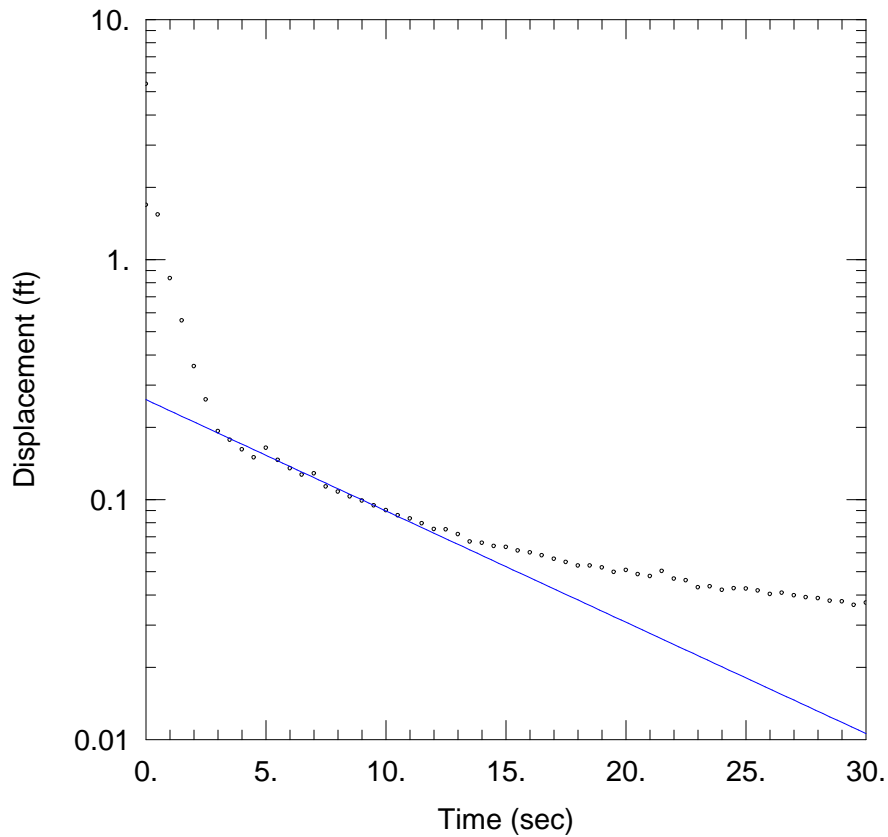
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 63.74 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



11-75 RISING HEAD TEST 5

Data Set: N:\...\11-75-RH5.aqt
 Date: 05/09/13 Time: 12:53:41

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 11-75
 Test Date: February 1, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.007898$ cm/sec
 $y_0 = 0.2607$ ft

AQUIFER DATA

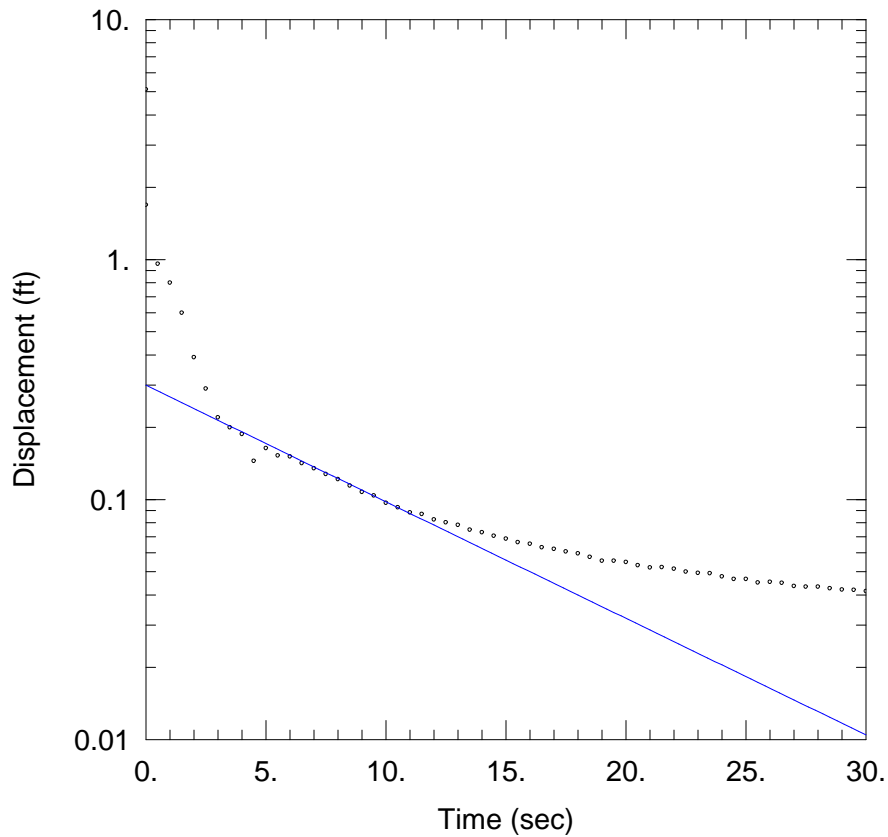
Saturated Thickness: 8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (11-75)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 8 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 63.74 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



11-75 RISING HEAD TEST 6

Data Set: N:\...\11-75-RH6.aqt

Date: 05/09/13

Time: 12:53:25

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 11-75

Test Date: February 1, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.00827 cm/sec

y0 = 0.2993 ft

AQUIFER DATA

Saturated Thickness: 8. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (11-75)

Initial Displacement: 1.688 ft

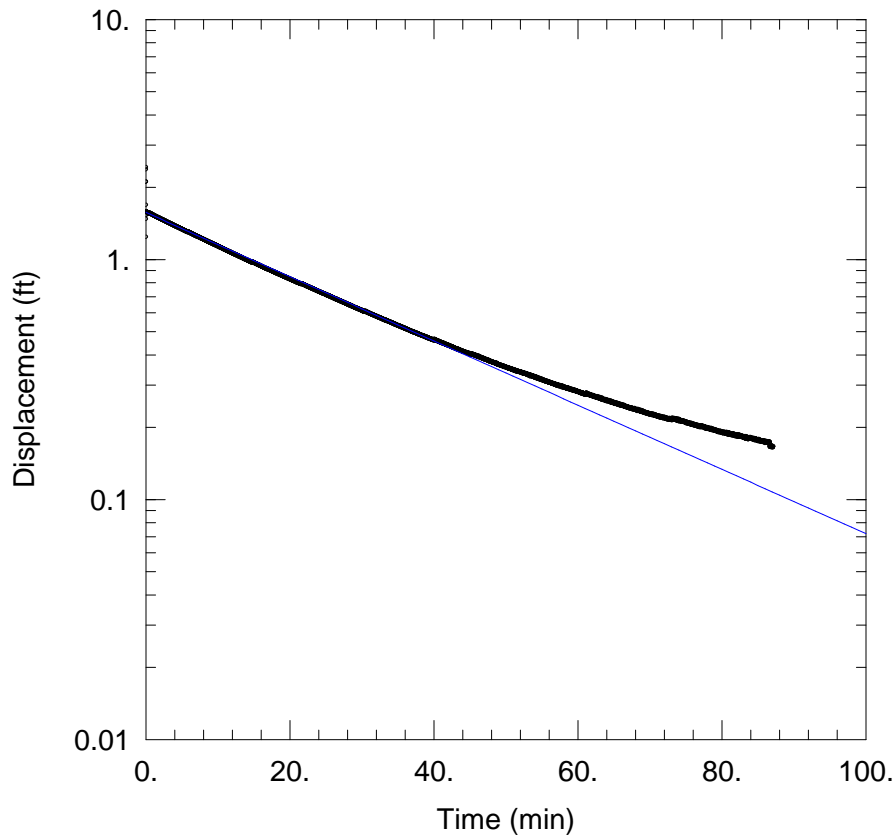
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 63.74 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



12-75 FALLING HEAD TEST 1

Data Set: N:\...\12-75-FH1.aqt

Date: 05/02/13

Time: 14:10:57

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 12-75

Test Date: February 1, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 3.462E-5$ cm/sec

$y_0 = 1.571$ ft

AQUIFER DATA

Saturated Thickness: 10.4 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (12-75)

Initial Displacement: 1.688 ft

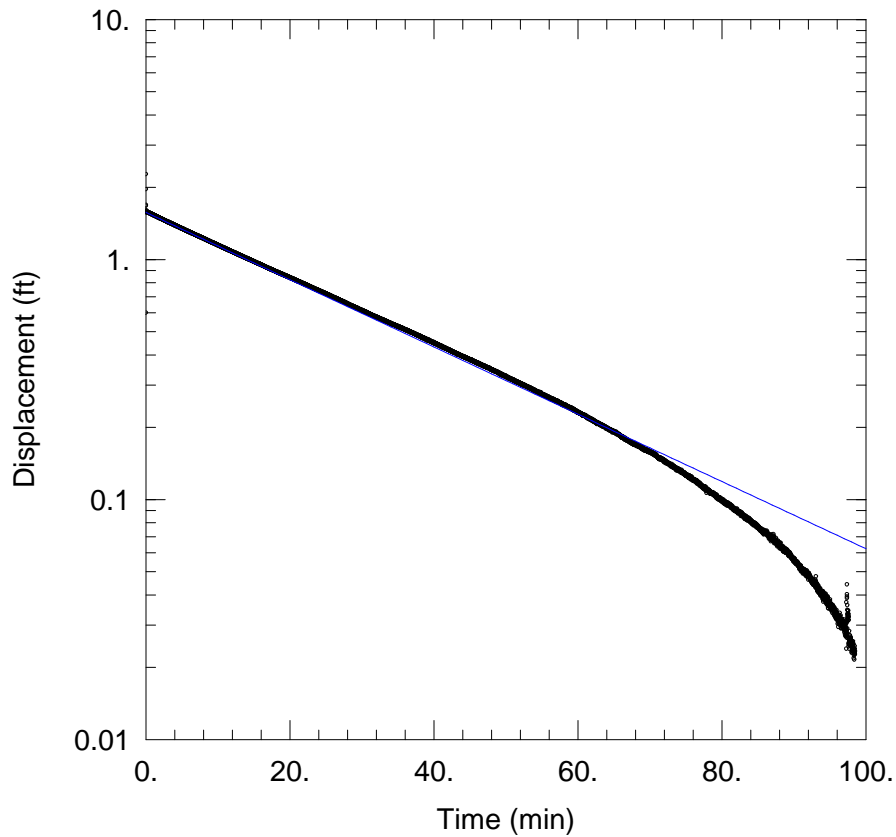
Total Well Penetration Depth: 8.75 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 63.37 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



12-75 FALLING HEAD TEST 2

Data Set: N:\...\12-75-FH2.aqt

Date: 05/02/13

Time: 14:10:43

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 12-75

Test Date: February 1, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 3.626E-5$ cm/sec

$y_0 = 1.571$ ft

AQUIFER DATA

Saturated Thickness: 10.4 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (12-75)

Initial Displacement: 1.688 ft

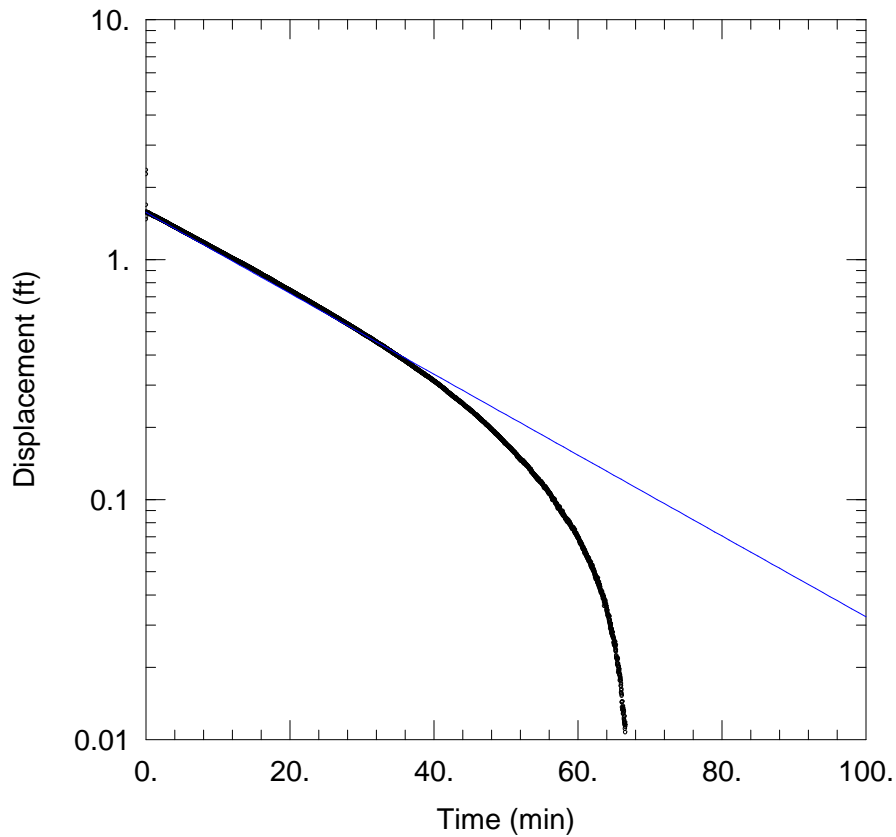
Total Well Penetration Depth: 8.75 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 63.37 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



12-75 FALLING HEAD TEST 3

Data Set: N:\...\12-75-FH3.aqt

Date: 05/02/13

Time: 14:10:25

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 12-75

Test Date: February 5, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 4.359E-5$ cm/sec

$y_0 = 1.571$ ft

AQUIFER DATA

Saturated Thickness: 10.4 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (12-75)

Initial Displacement: 1.688 ft

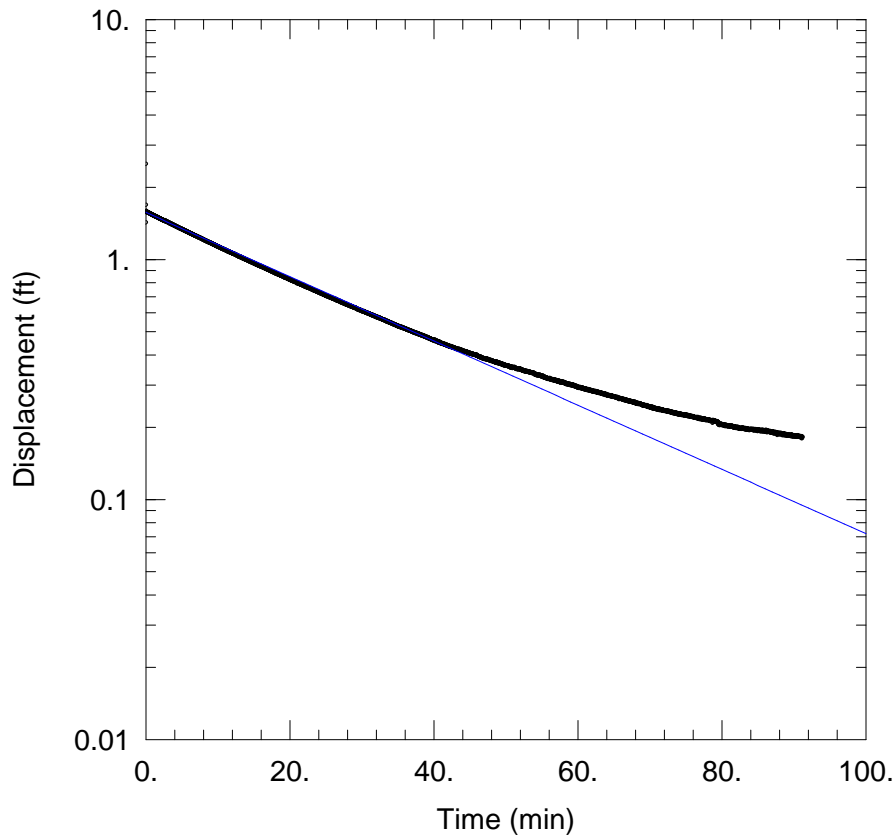
Total Well Penetration Depth: 8.75 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 62.5 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



12-75 FALLING HEAD TEST 4

Data Set: N:\...\12-75-FH4.aqt

Date: 05/02/13

Time: 14:10:06

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 12-75

Test Date: February 6, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 3.462E-5 cm/sec

y0 = 1.571 ft

AQUIFER DATA

Saturated Thickness: 10.4 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (12-75)

Initial Displacement: 1.688 ft

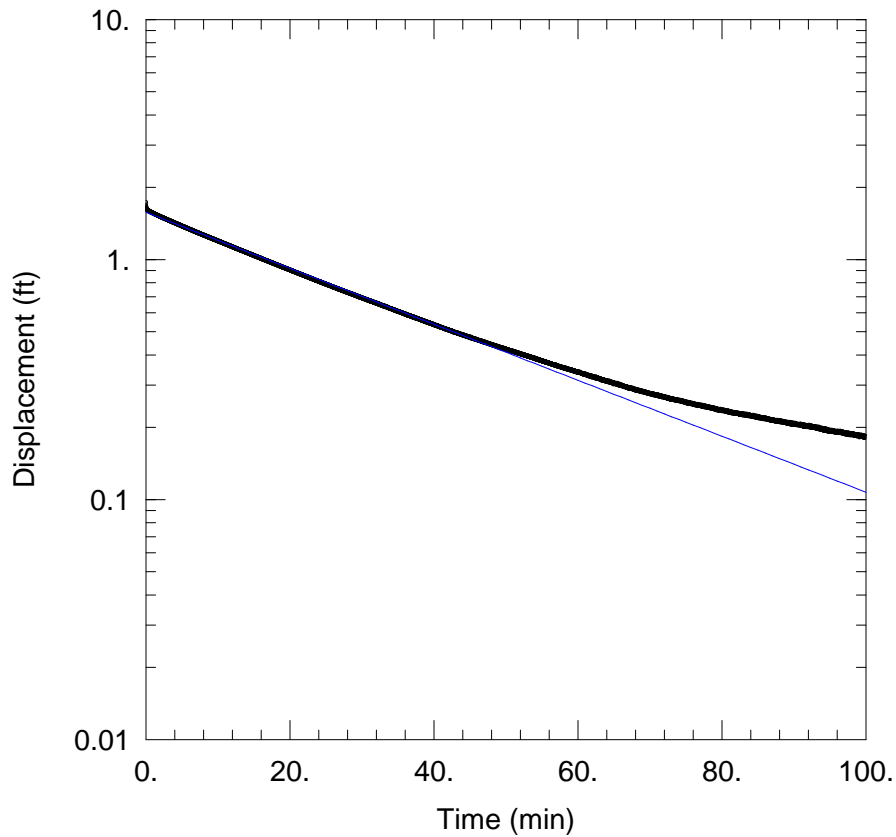
Total Well Penetration Depth: 8.75 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 62.5 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



12-75 RISING HEAD TEST 1

Data Set: N:\...\12-75-RH1.aqt

Date: 05/02/13

Time: 14:18:19

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 12-75

Test Date: February 1, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 3.016E-5$ cm/sec

$y_0 = 1.571$ ft

AQUIFER DATA

Saturated Thickness: 10.4 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (12-75)

Initial Displacement: 1.688 ft

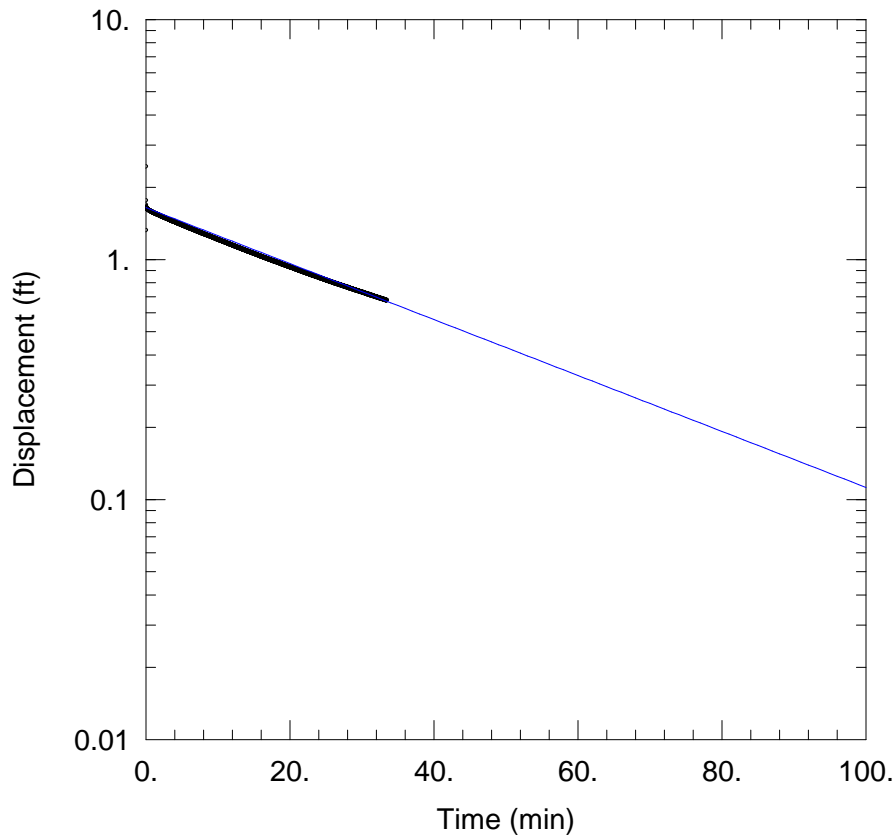
Total Well Penetration Depth: 8.75 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 63.37 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



12-75 RISING HEAD TEST 2

Data Set: N:\...\12-75-RH2.aqt
 Date: 05/13/13 Time: 14:01:59

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 12-75
 Test Date: February 1, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 3.016E-5$ cm/sec
 $y_0 = 1.645$ ft

AQUIFER DATA

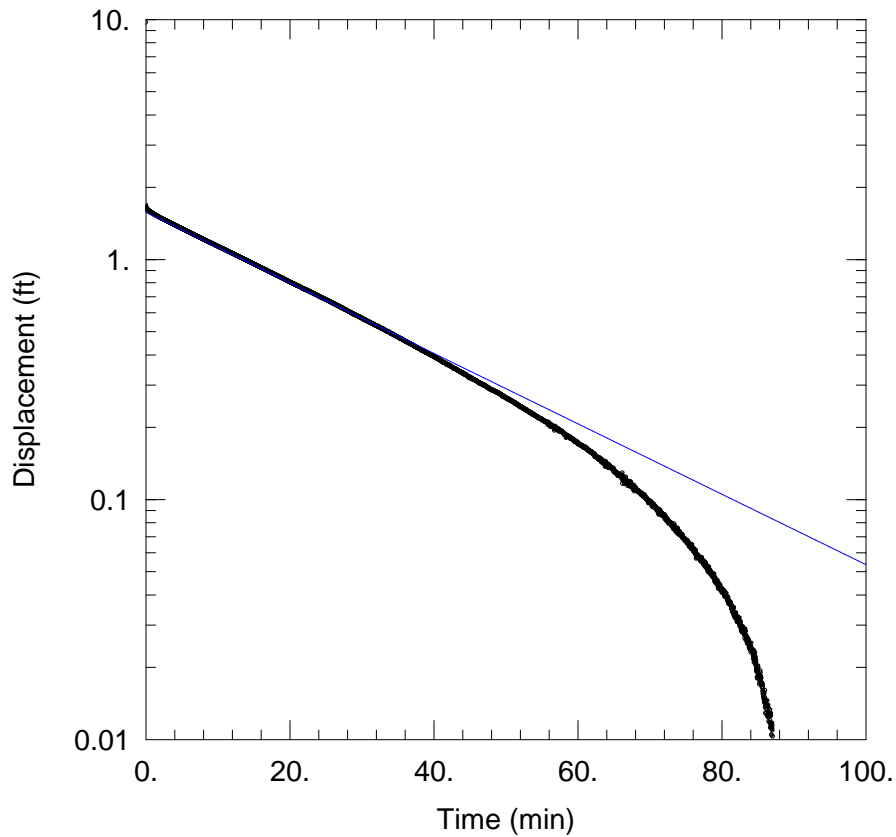
Saturated Thickness: 10.4 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (12-75)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 8.75 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 63.37 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



12-75 RISING HEAD TEST 3

Data Set: N:\...\12-75-RH3.aqt
 Date: 05/02/13 Time: 14:17:49

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 12-75
 Test Date: February 6, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 3.796E-5$ cm/sec
 $y_0 = 1.571$ ft

AQUIFER DATA

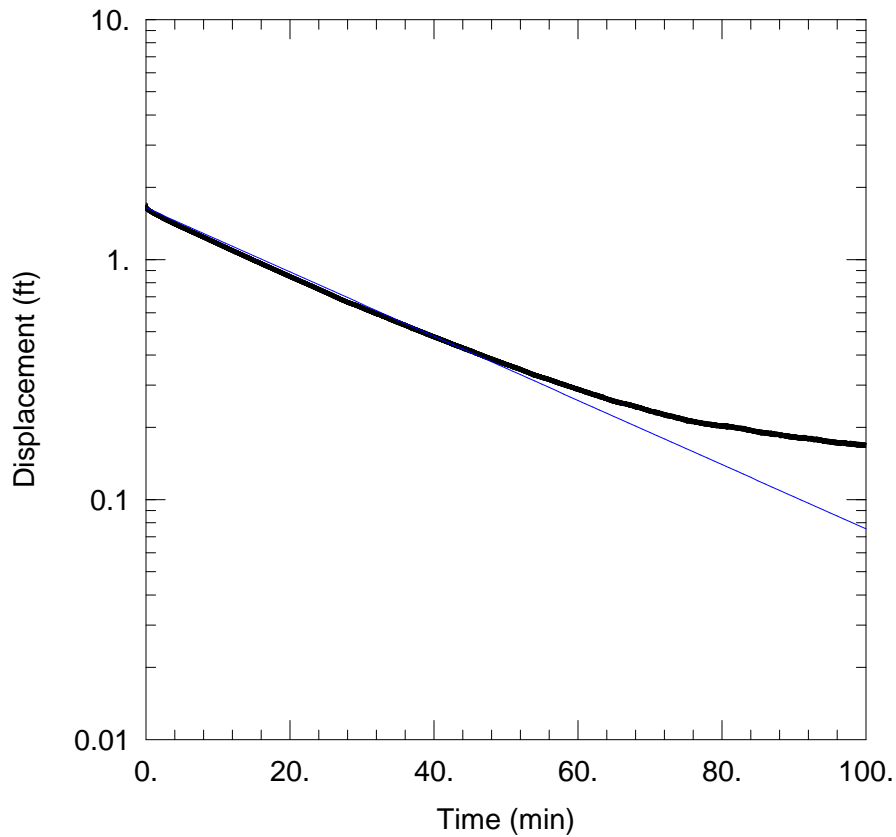
Saturated Thickness: 10.4 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (12-75)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 8.75 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 62.5 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



12-75 RISING HEAD TEST 4

Data Set: N:\...\12-75-RH4.aqt

Date: 05/02/13

Time: 14:17:35

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 12-75

Test Date: February 6, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 3.462E-5$ cm/sec

$y_0 = 1.645$ ft

AQUIFER DATA

Saturated Thickness: 10.4 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (12-75)

Initial Displacement: 1.688 ft

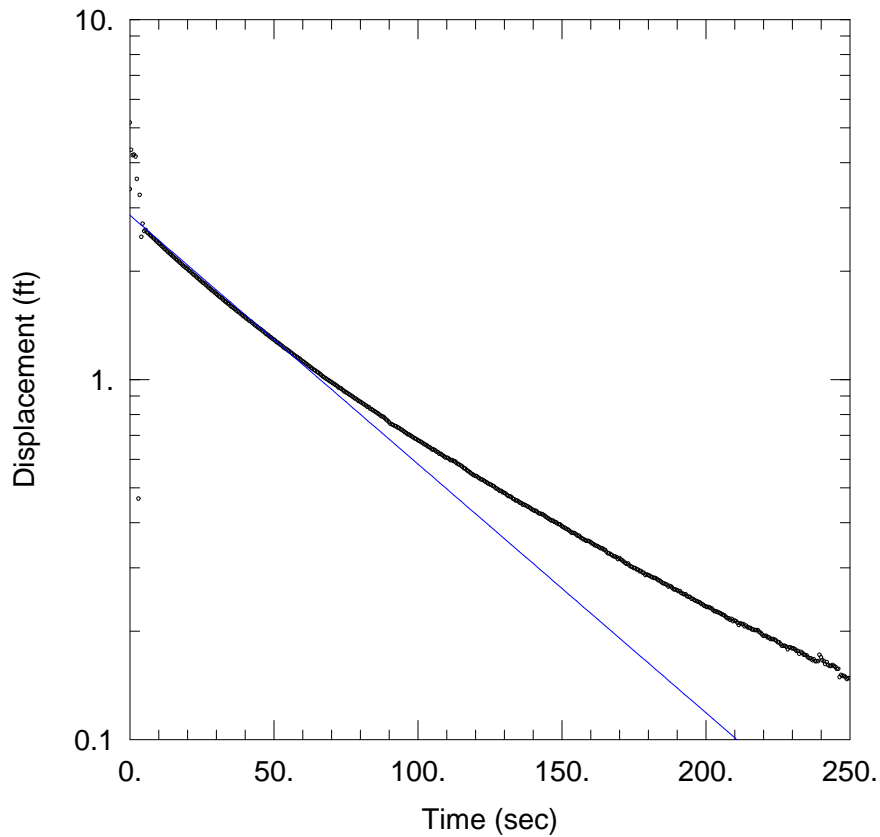
Total Well Penetration Depth: 8.75 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 62.5 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



14-25R FALLING HEAD TEST 1

Data Set: N:\...\14-25R-FH1.aqt
 Date: 05/02/13 Time: 14:32:27

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 14-25R
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0009943$ cm/sec
 $y_0 = 2.858$ ft

AQUIFER DATA

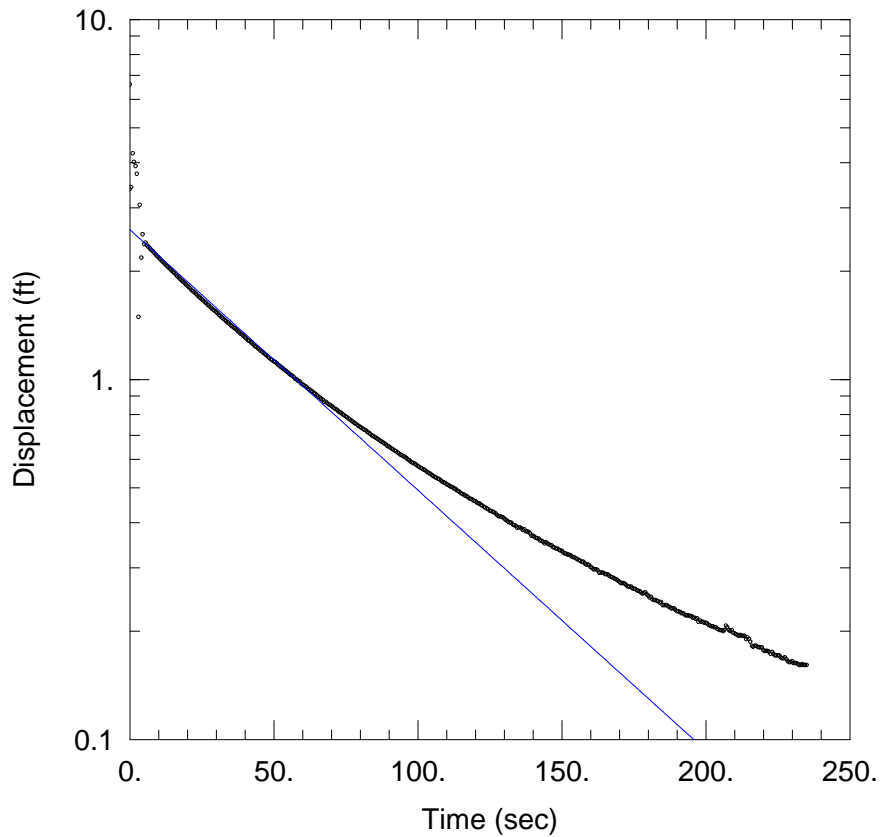
Saturated Thickness: 9. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (14-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 15.34 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



14-25R FALLING HEAD TEST 2

Data Set: N:\...\14-25R-FH2.aqt
 Date: 05/02/13 Time: 14:32:43

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 14-25R
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001041$ cm/sec
 $y_0 = 2.607$ ft

AQUIFER DATA

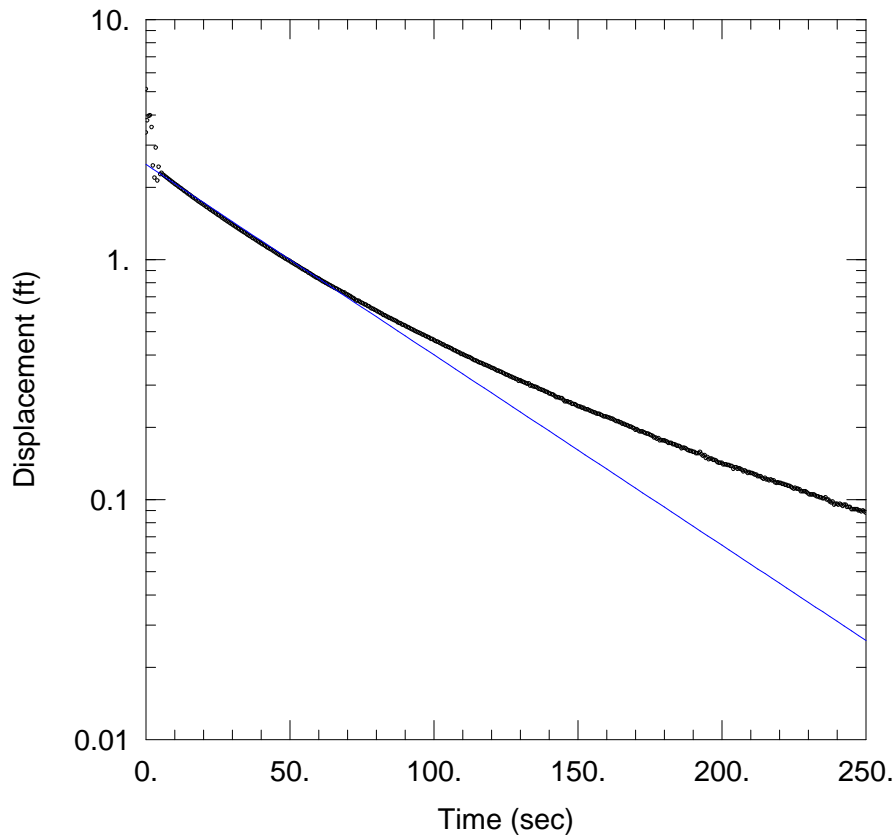
Saturated Thickness: 9. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (14-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 15.34 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



14-25R FALLING HEAD TEST 3

Data Set: N:\...\14-25R-FH3.aqt
 Date: 05/02/13 Time: 14:32:58

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 14-25R
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001142$ cm/sec
 $y_0 = 2.49$ ft

AQUIFER DATA

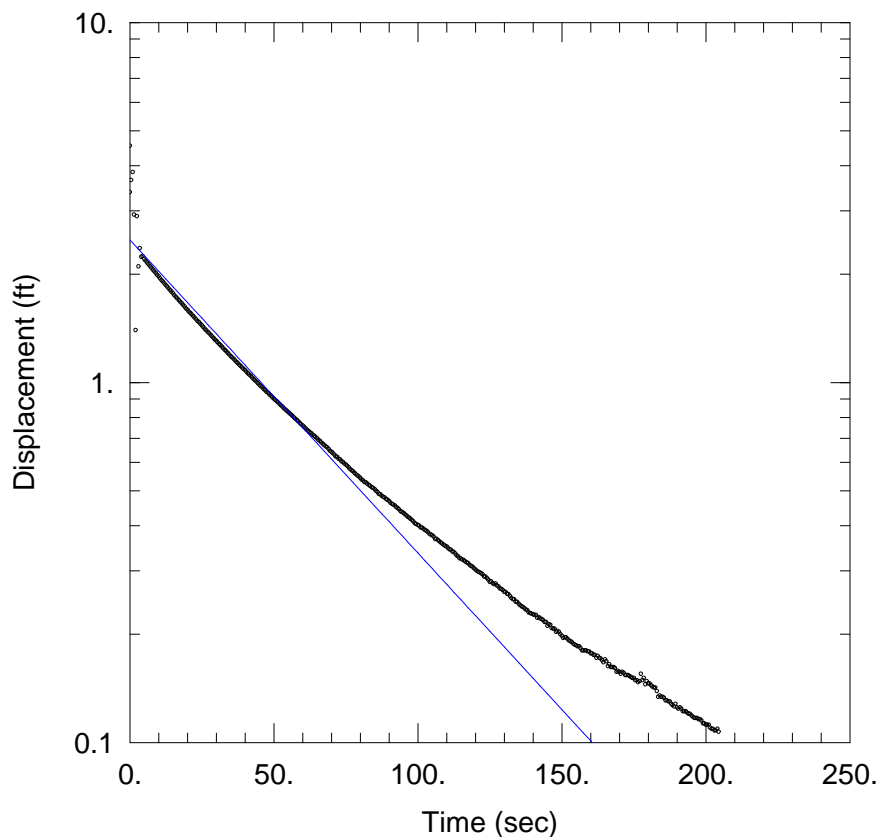
Saturated Thickness: 9. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (14-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 15.34 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



14-25R FALLING HEAD TEST 4

Data Set: N:\...\14-25R-FH4.aqt
 Date: 05/02/13 Time: 14:33:11

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 14-25R
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.001252 cm/sec
 y0 = 2.49 ft

AQUIFER DATA

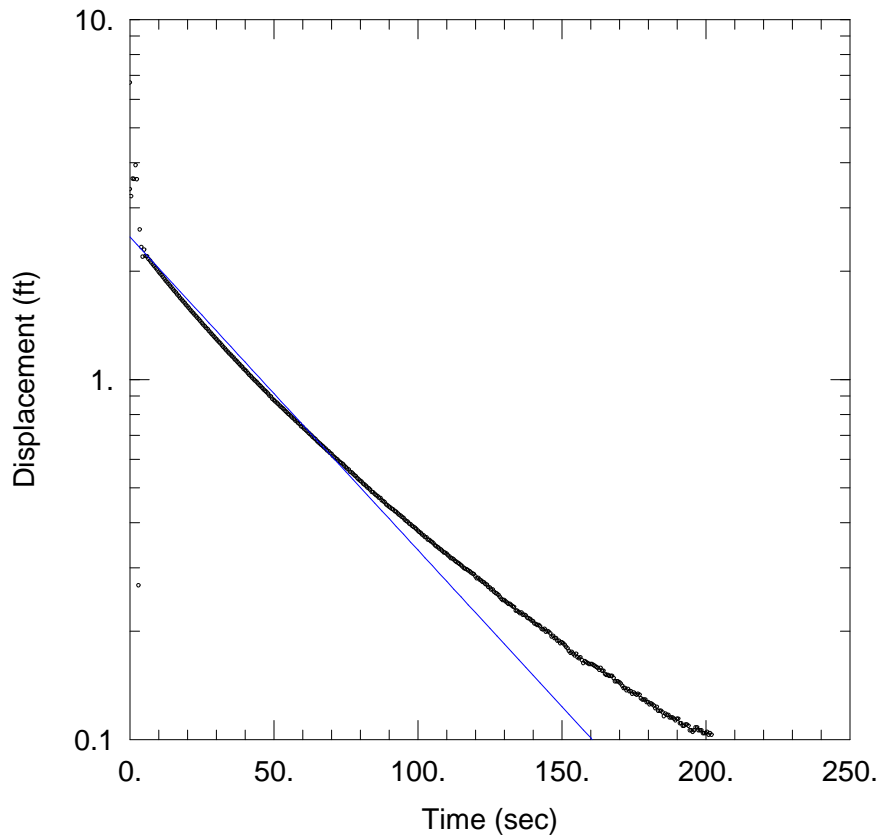
Saturated Thickness: 9. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (14-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 15.34 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



14-25R FALLING HEAD TEST 5

Data Set: N:\...\14-25R-FH5.aqt
 Date: 05/02/13 Time: 14:33:24

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 14-25R
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.001252 cm/sec
 y0 = 2.49 ft

AQUIFER DATA

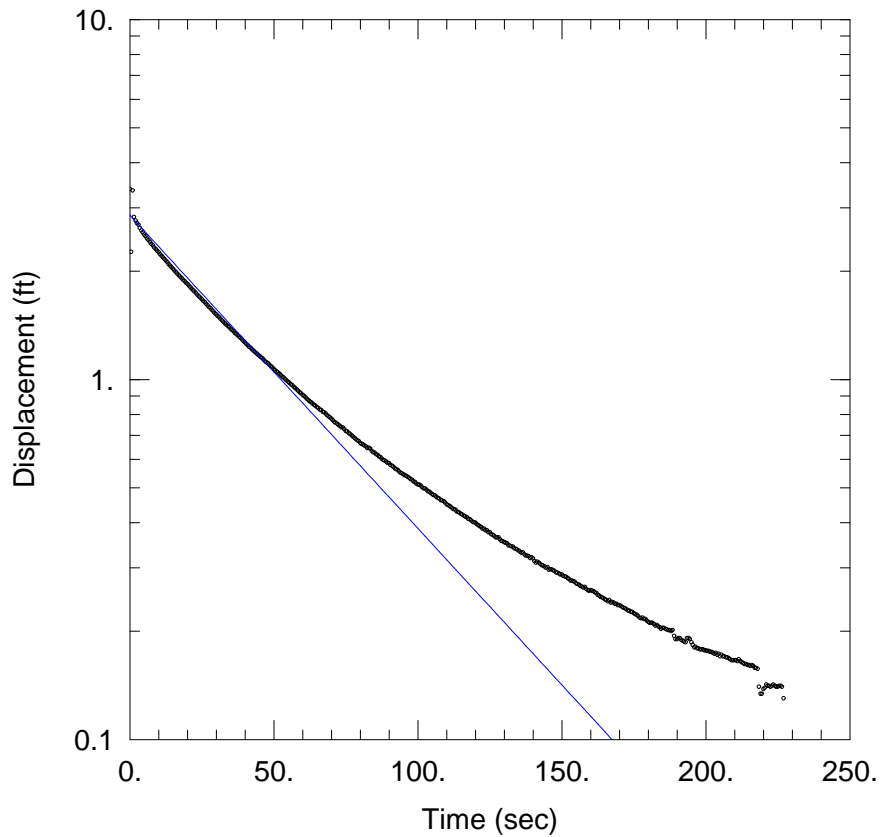
Saturated Thickness: 9. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (14-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 15.34 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



14-25R RISING HEAD TEST 1

Data Set: N:\...\14-25R-RH1.aqt
 Date: 05/02/13 Time: 14:38:26

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 14-25R
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001252$ cm/sec
 $y_0 = 2.858$ ft

AQUIFER DATA

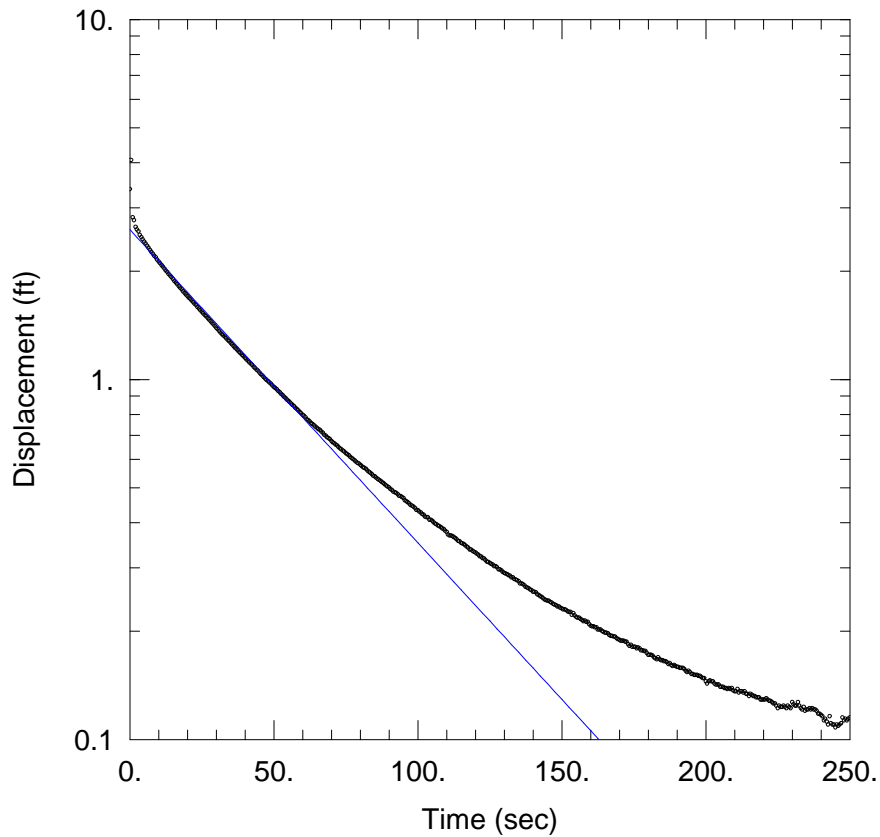
Saturated Thickness: 9. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (14-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 15.34 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



14-25R RISING HEAD TEST 2

Data Set: N:\...\14-25R-RH2.aqt
 Date: 05/02/13 Time: 14:38:11

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 14-25R
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.001252 cm/sec
 y0 = 2.607 ft

AQUIFER DATA

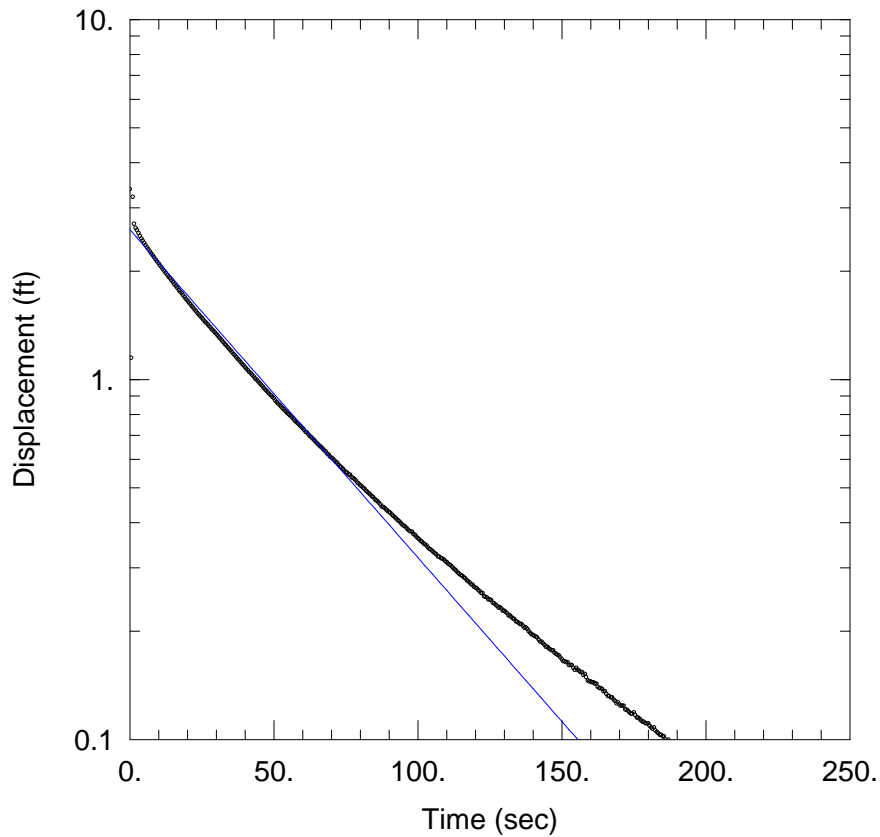
Saturated Thickness: 9. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (14-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 15.34 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



14-25R RISING HEAD TEST 3

Data Set: N:\...\14-25R-RH3.aqt
 Date: 05/02/13 Time: 14:37:55

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 14-25R
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.001311 cm/sec
 y0 = 2.607 ft

AQUIFER DATA

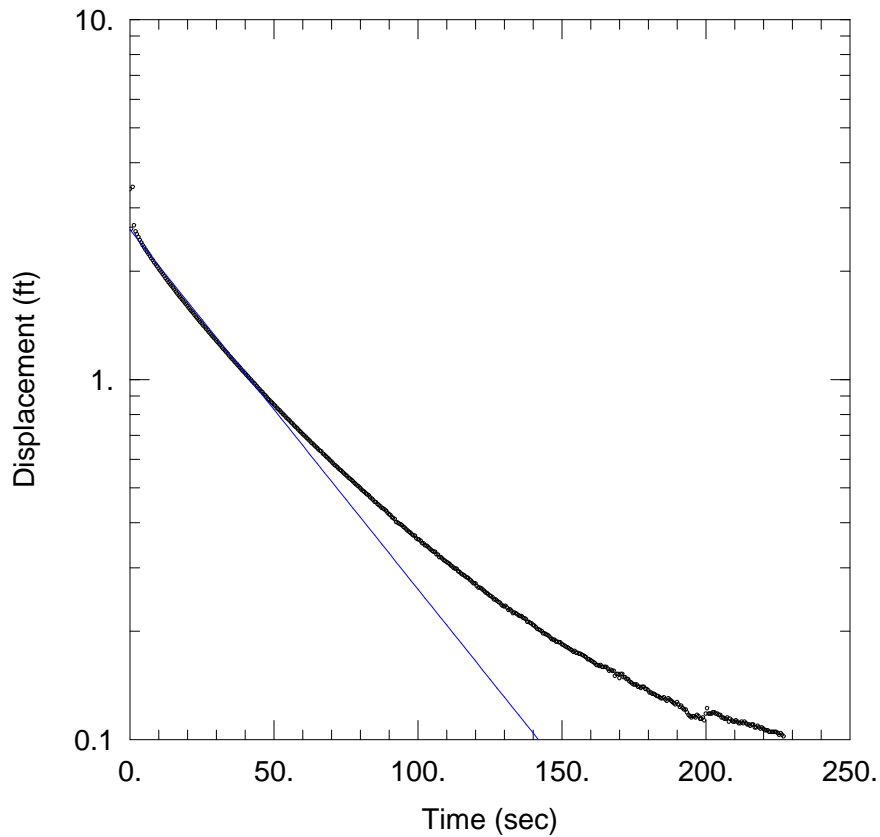
Saturated Thickness: 9. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (14-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 15.34 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



14-25R RISING HEAD TEST 4

Data Set: N:\...\14-25R-RH4.aqt
 Date: 05/02/13 Time: 14:37:41

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 14-25R
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.001437 cm/sec
 y0 = 2.607 ft

AQUIFER DATA

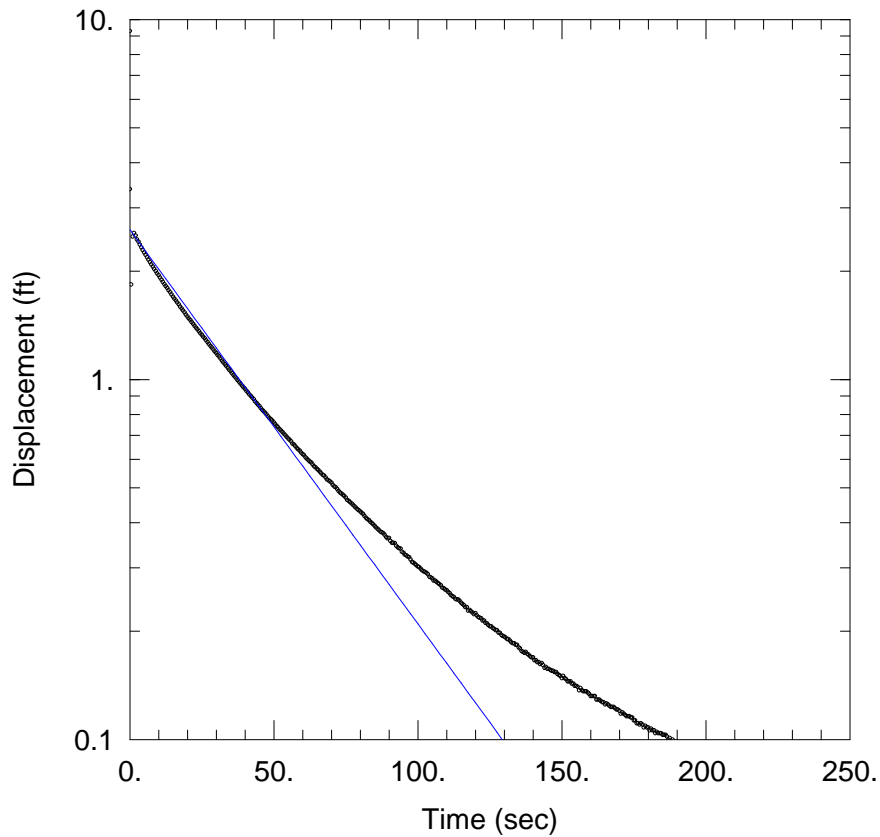
Saturated Thickness: 9. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (14-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 15.34 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



14-25R RISING HEAD TEST 5

Data Set: N:\...\14-25R-RH5.aqt
 Date: 05/02/13 Time: 14:37:26

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 14-25R
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.001576 cm/sec
 y0 = 2.607 ft

AQUIFER DATA

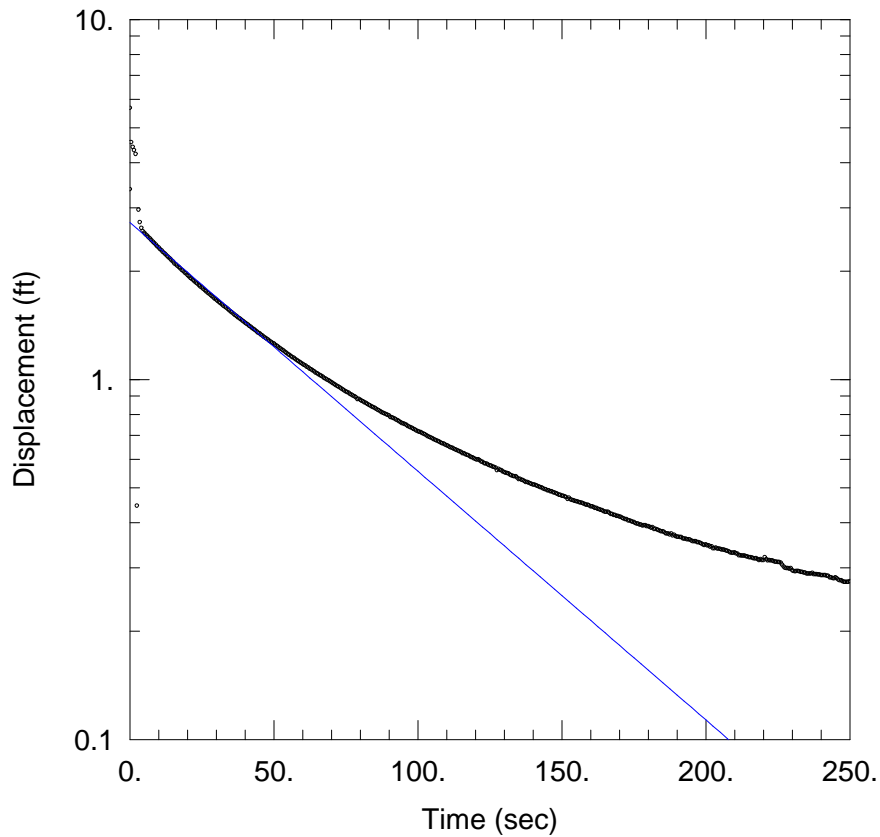
Saturated Thickness: 9. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (14-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 15.34 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



14-50R FALLING HEAD TEST 1

Data Set: N:\...\14-50R-FH1.aqt
 Date: 05/02/13 Time: 14:50:18

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 14-50R
 Test Date: February 22, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0009943$ cm/sec
 $y_0 = 2.73$ ft

AQUIFER DATA

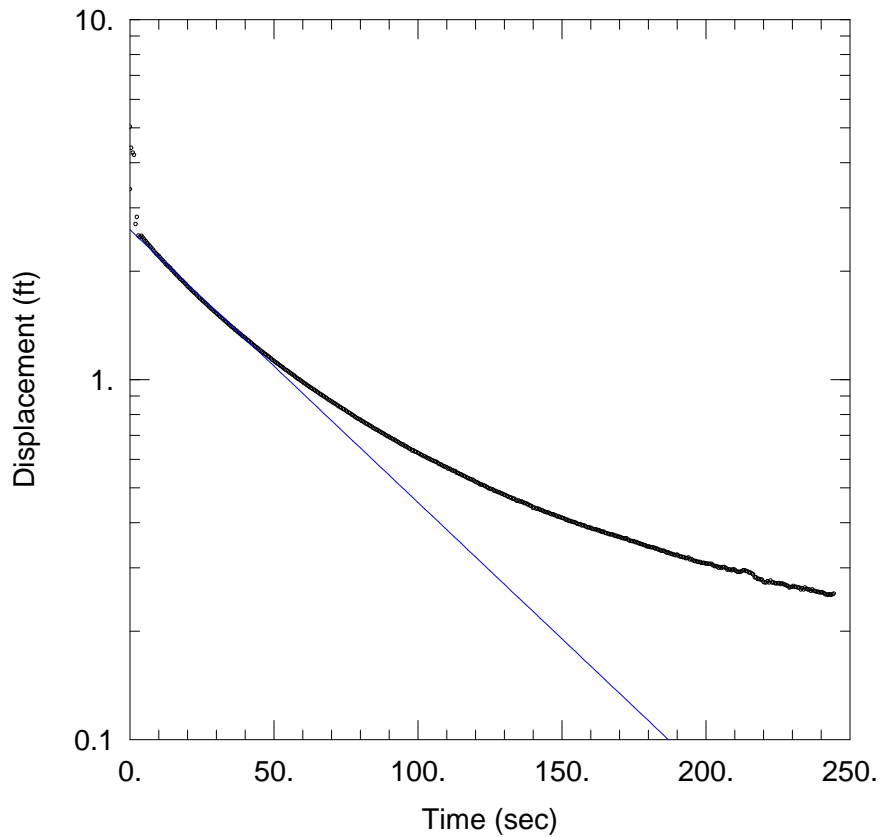
Saturated Thickness: 9. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (14-50R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 41.61 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



14-50R FALLING HEAD TEST 2

Data Set: N:\...\14-50R-FH2.aqt
 Date: 05/02/13 Time: 14:50:02

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 14-50R
 Test Date: February 22, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.00109$ cm/sec
 $y_0 = 2.607$ ft

AQUIFER DATA

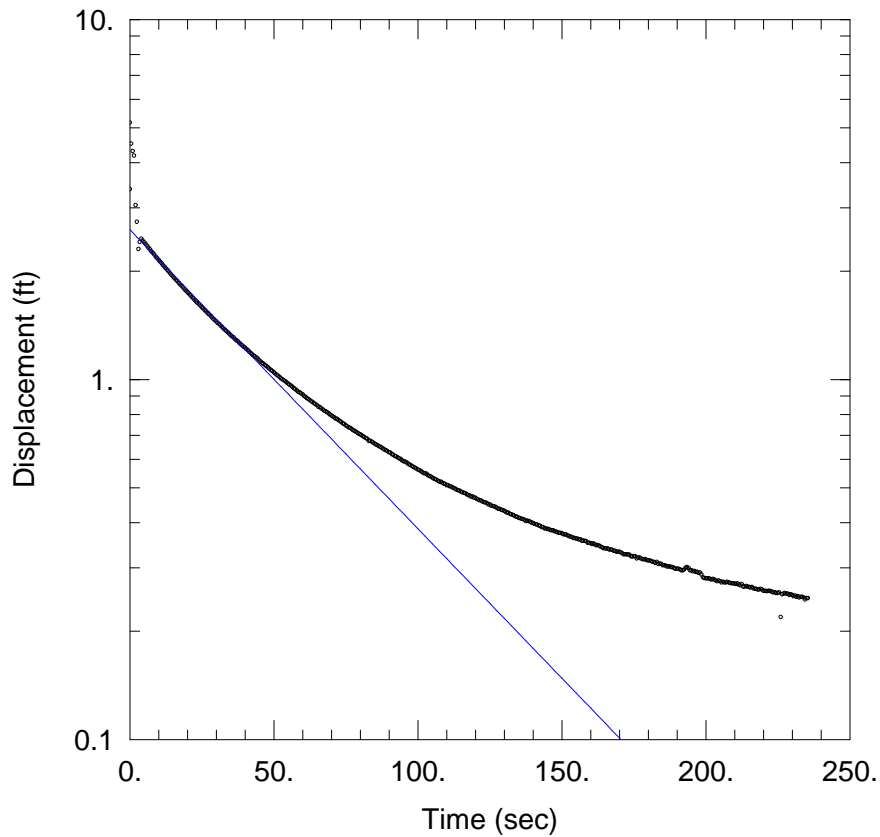
Saturated Thickness: 9. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (14-50R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 41.61 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



14-50R FALLING HEAD TEST 3

Data Set: N:\...\14-50R-FH3.aqt
 Date: 05/02/13 Time: 14:49:49

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 14-50R
 Test Date: February 22, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.001195 cm/sec
 y0 = 2.607 ft

AQUIFER DATA

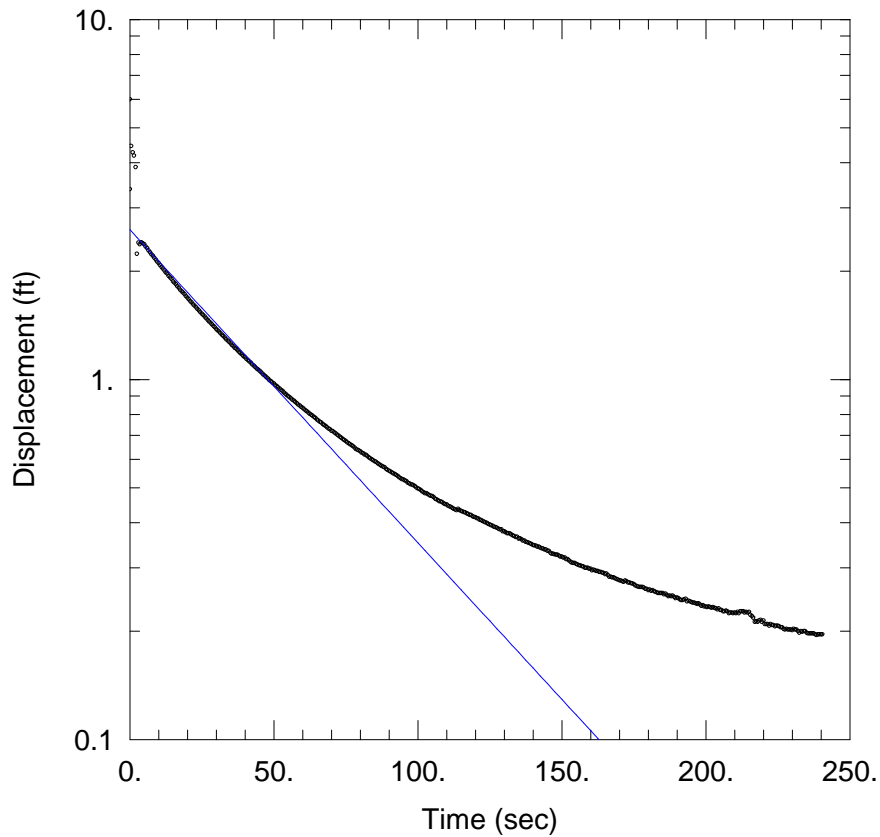
Saturated Thickness: 9. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (14-50R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 41.61 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



14-50R FALLING HEAD TEST 4

Data Set: N:\...\14-50R-FH4.aqt
 Date: 05/02/13 Time: 14:49:35

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 14-50R
 Test Date: February 22, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.001252 cm/sec
 y0 = 2.607 ft

AQUIFER DATA

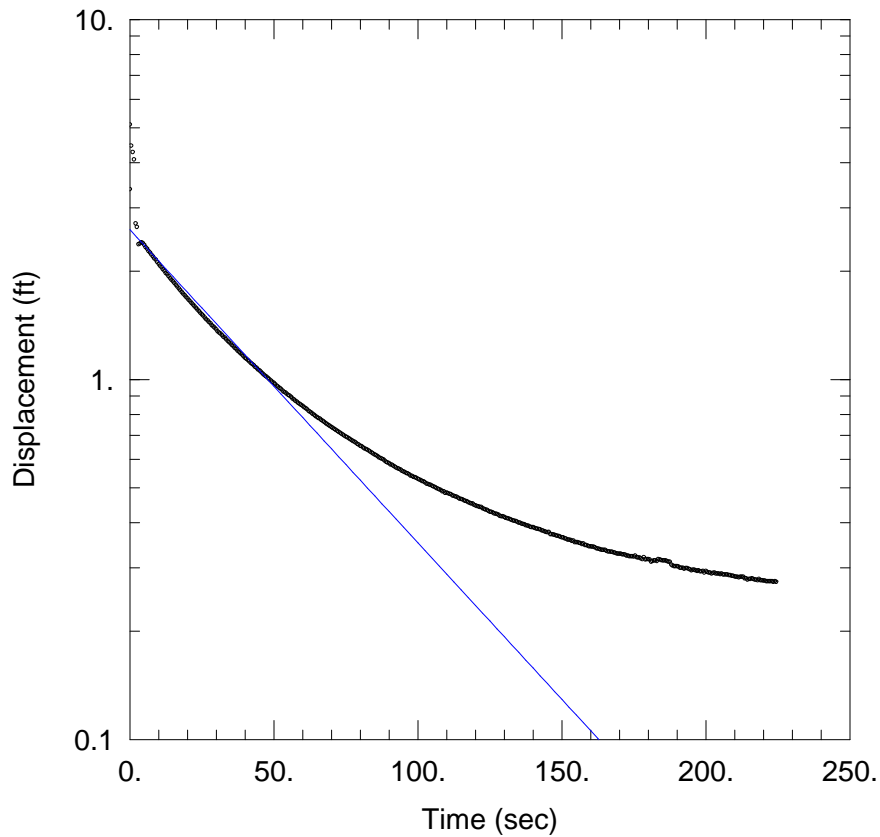
Saturated Thickness: 9. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (14-50R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 41.61 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



14-50R FALLING HEAD TEST 5

Data Set: N:\...\14-50R-FH5.aqt
 Date: 05/02/13 Time: 14:49:21

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 14-50R
 Test Date: February 22, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.001252 cm/sec
 y0 = 2.607 ft

AQUIFER DATA

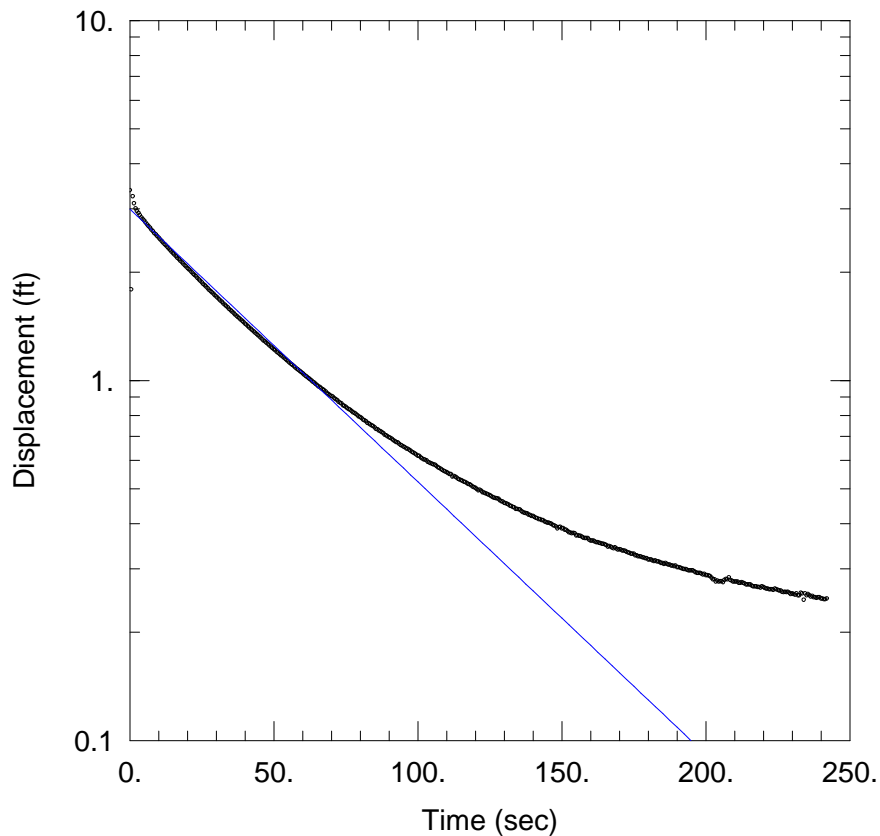
Saturated Thickness: 9. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (14-50R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 41.61 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



14-50R RISING HEAD TEST 1

Data Set: N:\...\14-50R-RH1.aqt
 Date: 05/02/13 Time: 14:55:30

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 14-50R
 Test Date: February 22, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.00109 cm/sec
 y0 = 2.993 ft

AQUIFER DATA

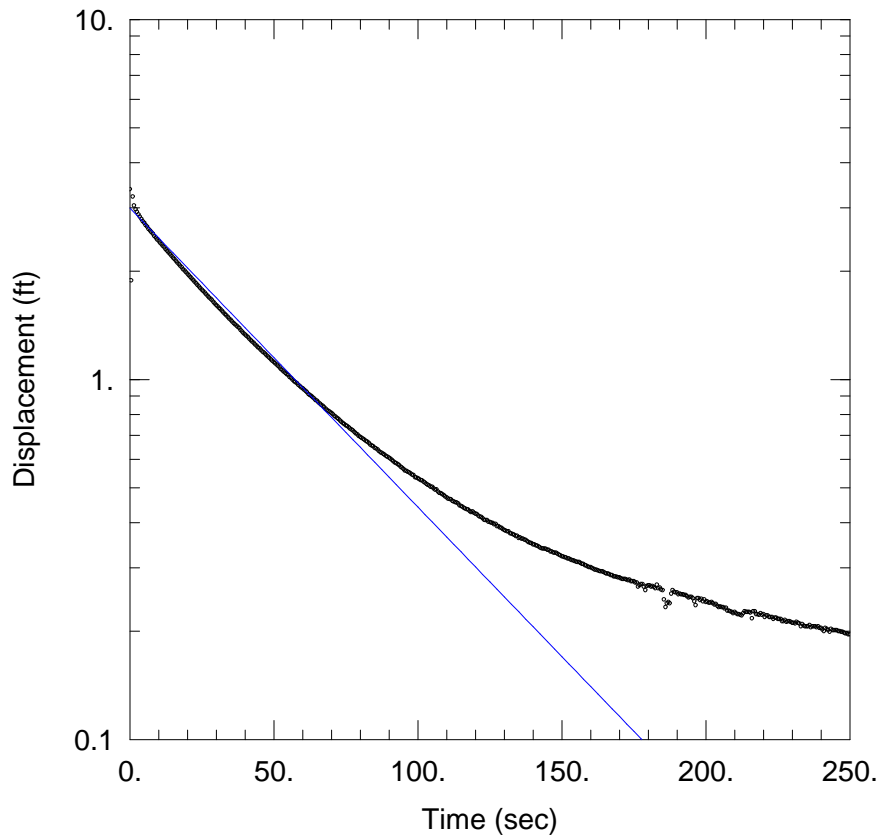
Saturated Thickness: 9. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (14-50R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 41.61 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



14-50R RISING HEAD TEST 2

Data Set: N:\...\14-50R-RH2.aqt
 Date: 05/02/13 Time: 14:55:16

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 14-50R
 Test Date: February 22, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.001195 cm/sec
 y0 = 2.993 ft

AQUIFER DATA

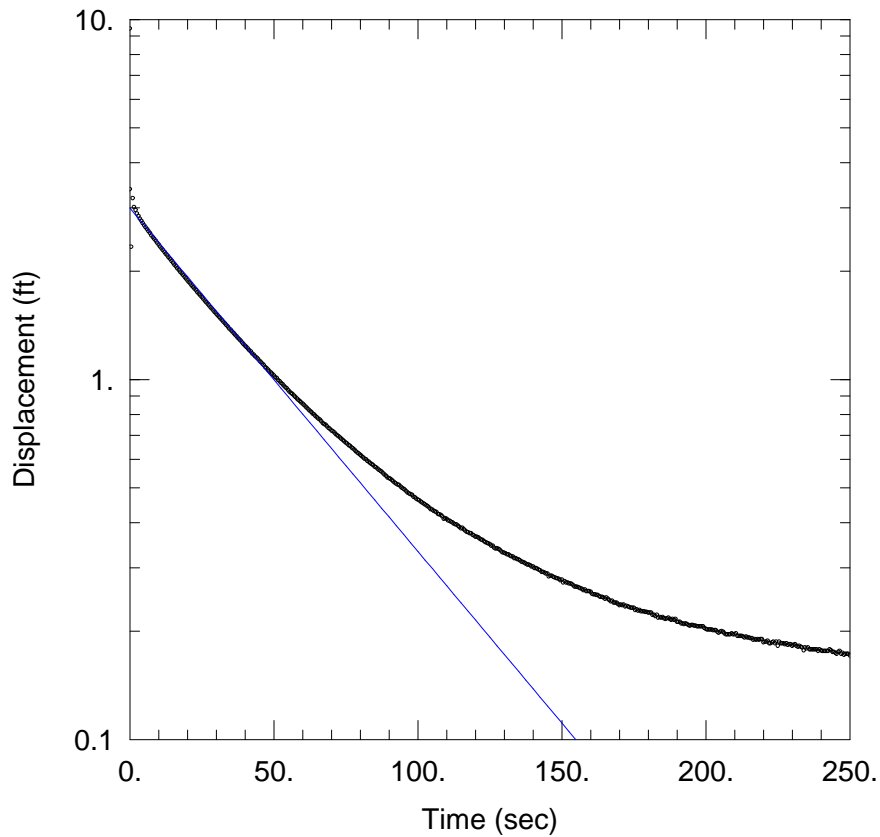
Saturated Thickness: 9. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (14-50R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 41.61 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



14-50R RISING HEAD TEST 3

Data Set: N:\...\14-50R-RH3.aqt
 Date: 05/02/13 Time: 14:55:03

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 14-50R
 Test Date: February 22, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.001373 cm/sec
 y0 = 2.993 ft

AQUIFER DATA

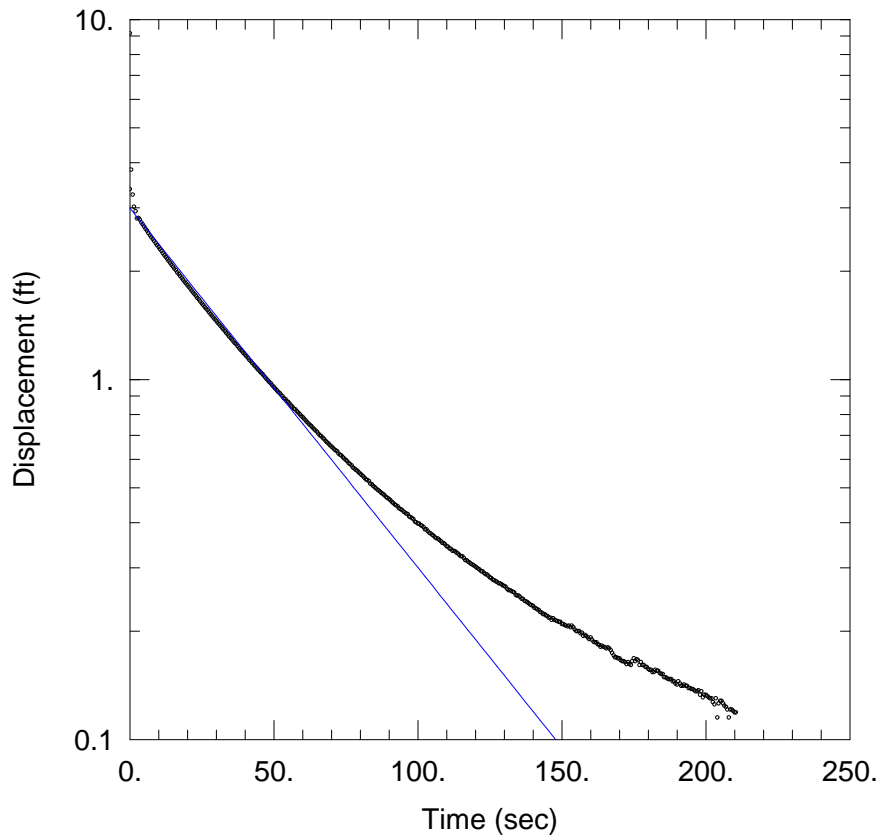
Saturated Thickness: 9. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (14-50R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 41.61 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



14-50R RISING HEAD TEST 4

Data Set: N:\...\14-50R-RH4.aqt
 Date: 05/02/13 Time: 14:54:48

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 14-50R
 Test Date: February 22, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001437$ cm/sec
 $y_0 = 2.993$ ft

AQUIFER DATA

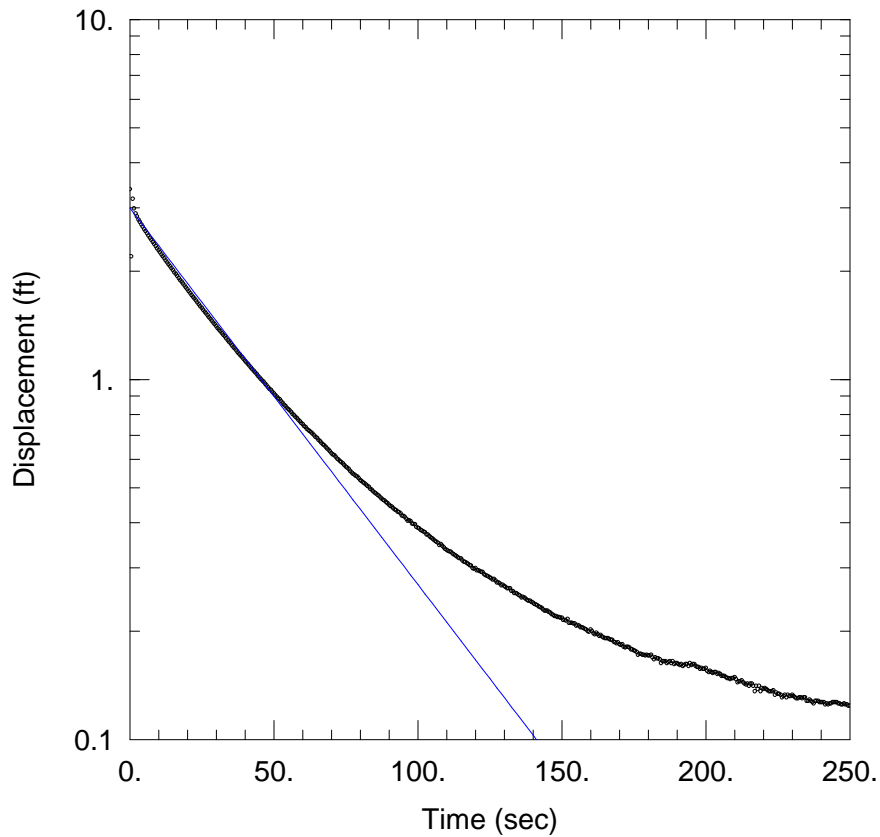
Saturated Thickness: 9. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (14-50R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 41.61 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



14-50R RISING HEAD TEST 5

Data Set: N:\...\14-50R-RH5.aqt
 Date: 05/02/13 Time: 14:54:32

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 14-50R
 Test Date: February 22, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.001505 cm/sec
 y0 = 2.993 ft

AQUIFER DATA

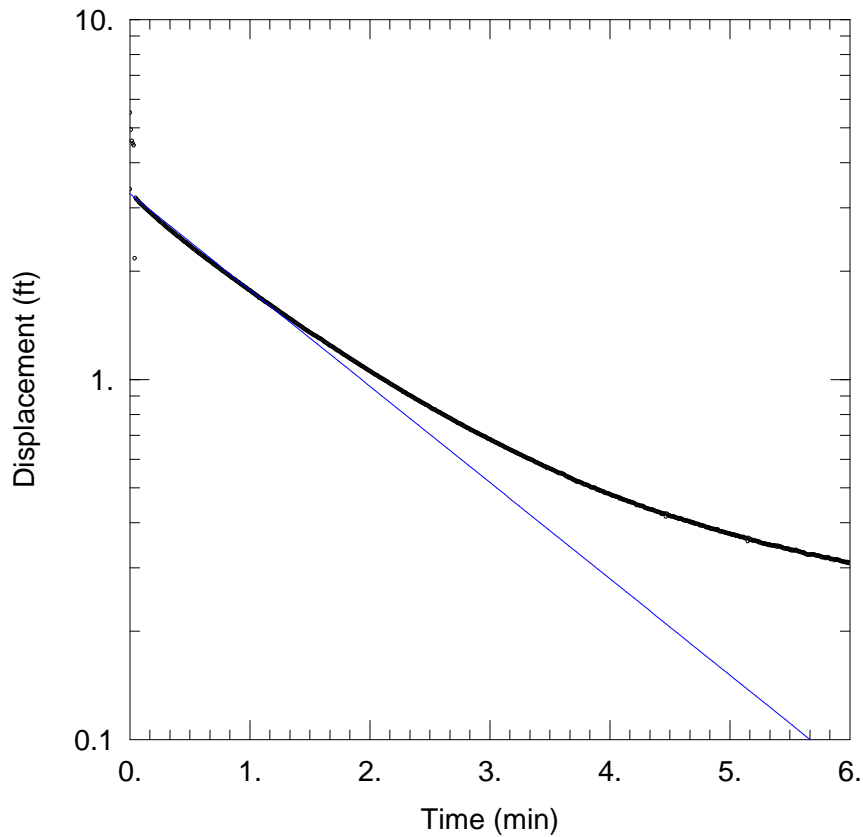
Saturated Thickness: 9. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (14-50R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 41.61 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



15-120 FALLING HEAD TEST 1

Data Set: N:\...\15-120-FH1.aqt
 Date: 05/09/13 Time: 13:18:45

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 15-120
 Test Date: February 22, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001046$ cm/sec
 $y_0 = 3.282$ ft

AQUIFER DATA

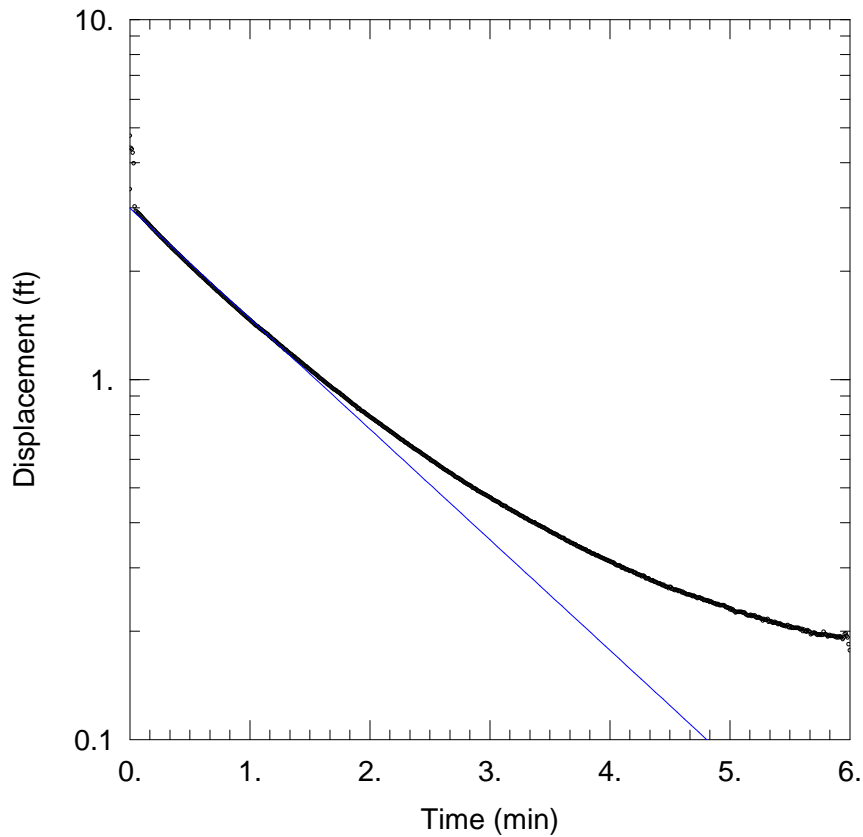
Saturated Thickness: 9.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (15-120)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 6.9 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 102.3 ft
 Screen Length: 2.9 ft
 Well Radius: 0.25 ft



15-120 FALLING HEAD TEST 2

Data Set: N:\...\15-120-FH2.aqt
 Date: 05/09/13 Time: 13:18:33

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 15-120
 Test Date: February 22, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.001201 cm/sec
 y0 = 2.993 ft

AQUIFER DATA

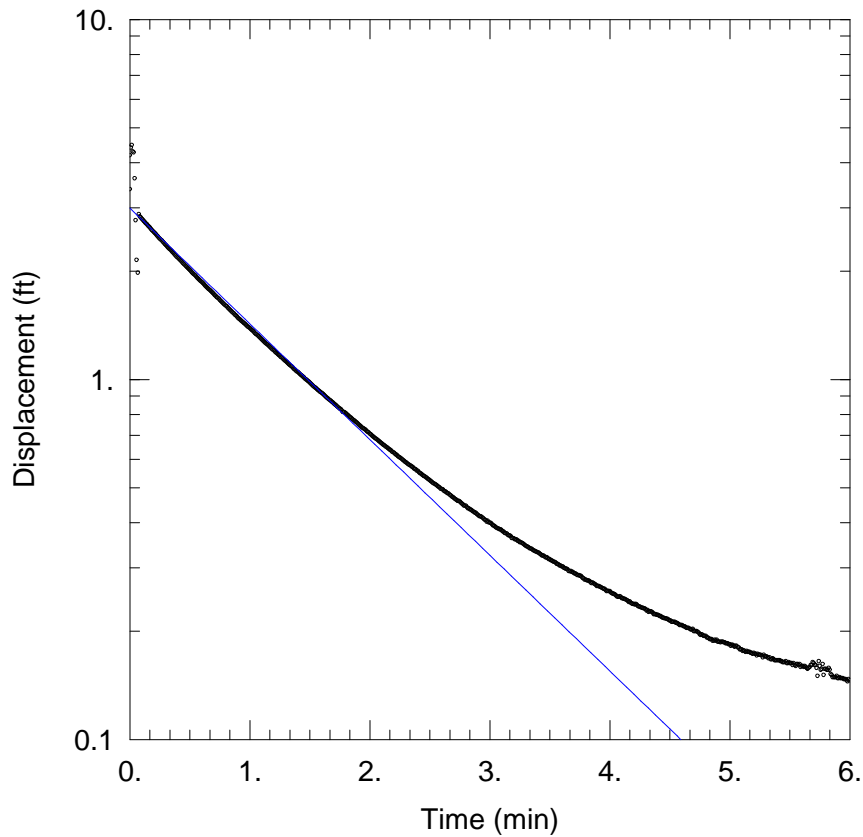
Saturated Thickness: 9.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (15-120)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 6.9 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 102.3 ft
 Screen Length: 2.9 ft
 Well Radius: 0.25 ft



15-120 FALLING HEAD TEST 3

Data Set: N:\...\15-120-FH3.aqt
 Date: 05/09/13 Time: 13:18:20

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 15-120
 Test Date: February 22, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001257$ cm/sec
 $y_0 = 2.993$ ft

AQUIFER DATA

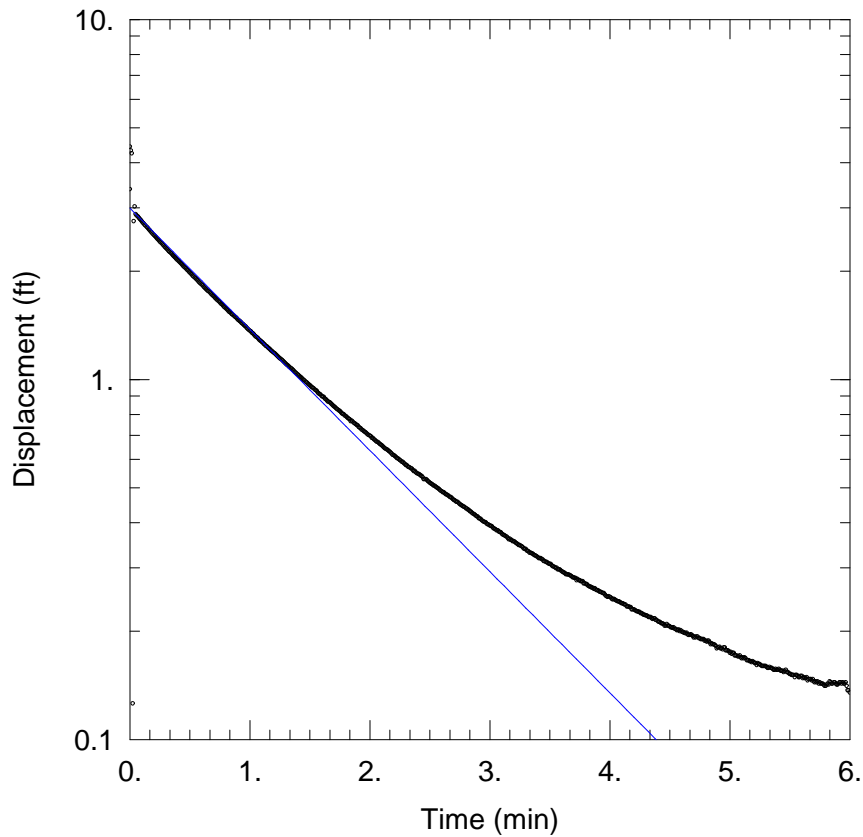
Saturated Thickness: 9.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (15-120)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 6.9 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 102.3 ft
 Screen Length: 2.9 ft
 Well Radius: 0.25 ft



15-120 FALLING HEAD TEST 4

Data Set: N:\...\15-120-FH4.aqt
 Date: 05/09/13 Time: 13:18:08

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 15-120
 Test Date: February 22, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.001316 cm/sec
 y0 = 2.993 ft

AQUIFER DATA

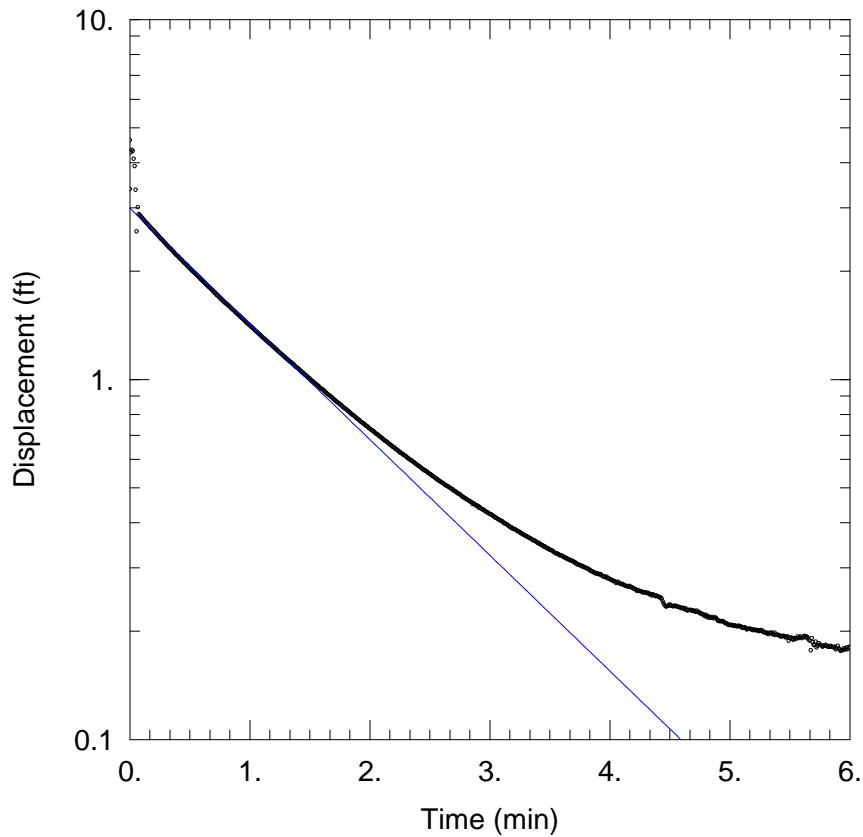
Saturated Thickness: 9.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (15-120)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 6.9 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 102.3 ft
 Screen Length: 2.9 ft
 Well Radius: 0.25 ft



15-120 FALLING HEAD TEST 5

Data Set: N:\...\15-120-FH5.aqt
 Date: 05/09/13 Time: 13:17:54

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 15-120
 Test Date: February 22, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.001257 cm/sec
 y0 = 2.993 ft

AQUIFER DATA

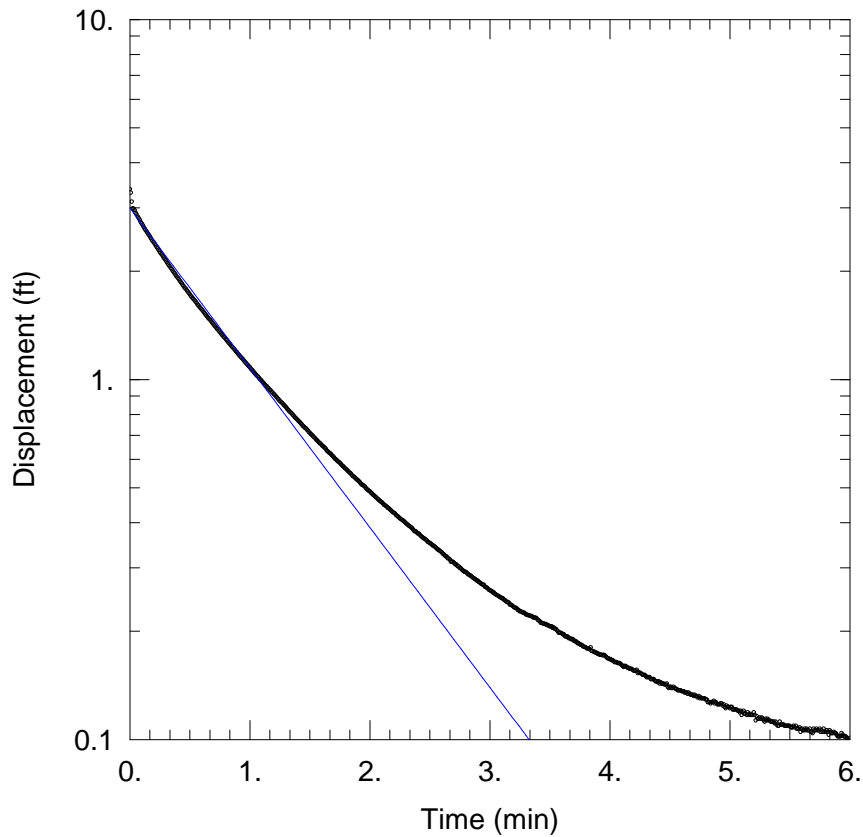
Saturated Thickness: 9.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (15-120)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 6.9 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 102.3 ft
 Screen Length: 2.9 ft
 Well Radius: 0.25 ft



15-120 RISING HEAD TEST 1

Data Set: N:\...\15-120-RH1.aqt
 Date: 05/09/13 Time: 13:23:18

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 15-120
 Test Date: February 22, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.001735 cm/sec
 y0 = 2.993 ft

AQUIFER DATA

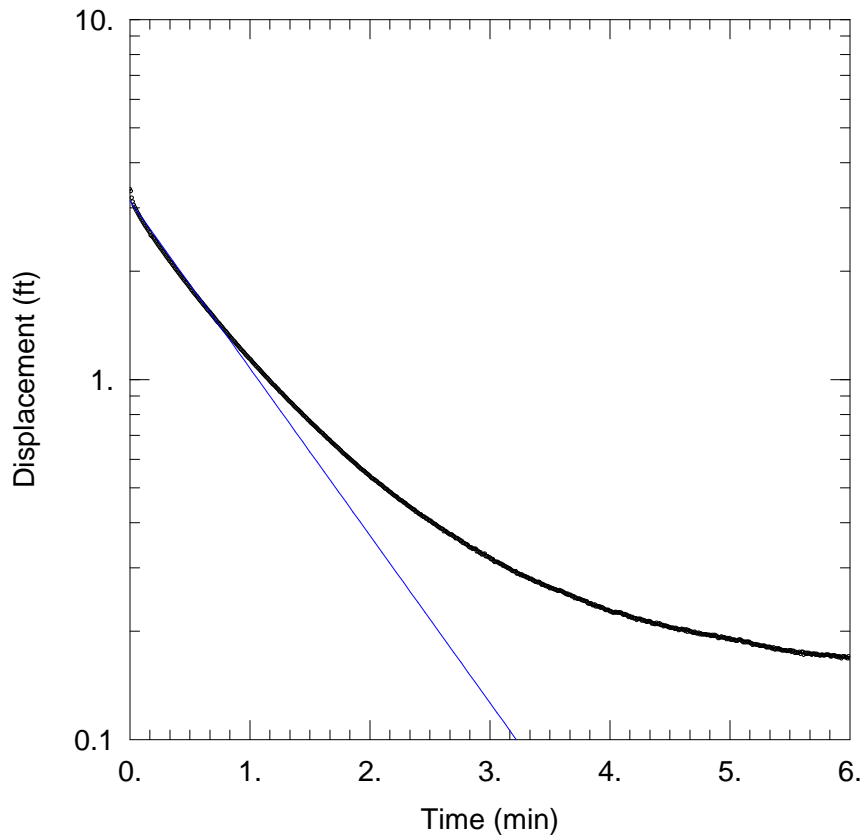
Saturated Thickness: 9.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (15-120)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 6.9 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 102.3 ft
 Screen Length: 2.9 ft
 Well Radius: 0.25 ft



15-120 RISING HEAD TEST 2

Data Set: N:\...\15-120-RH2.aqt
 Date: 05/09/13 Time: 13:23:05

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 15-120
 Test Date: February 22, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001817$ cm/sec
 $y_0 = 3.134$ ft

AQUIFER DATA

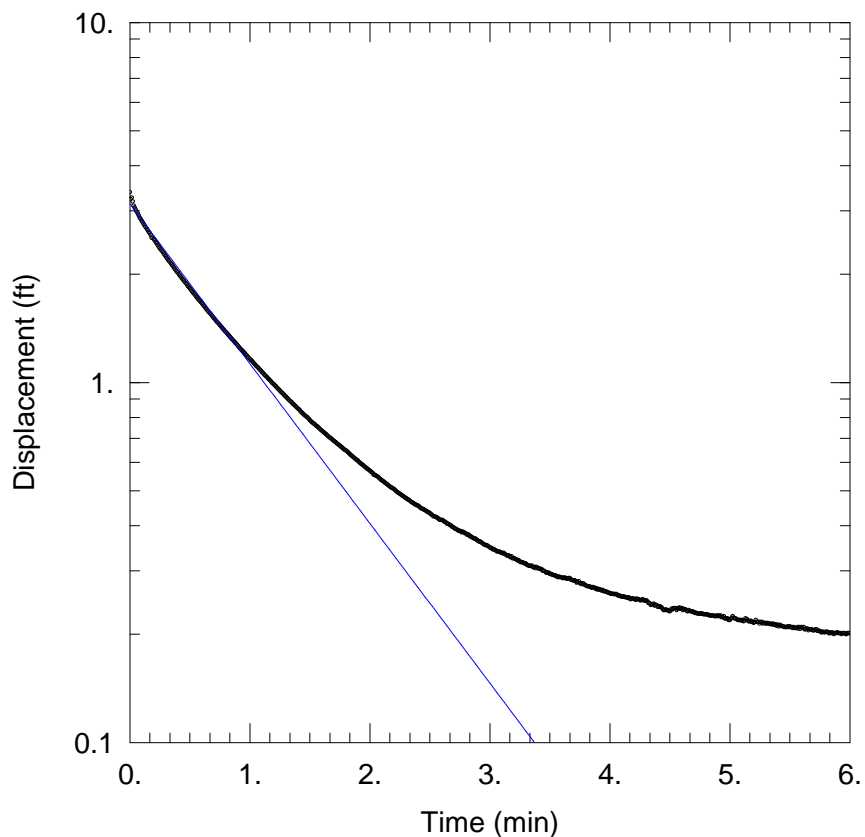
Saturated Thickness: 9.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (15-120)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 6.9 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 102.3 ft
 Screen Length: 2.9 ft
 Well Radius: 0.25 ft



15-120 RISING HEAD TEST 3

Data Set: N:\...\15-120-RH3.aqt
 Date: 05/09/13 Time: 13:22:51

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 15-120
 Test Date: February 22, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.001735 cm/sec
 y0 = 3.134 ft

AQUIFER DATA

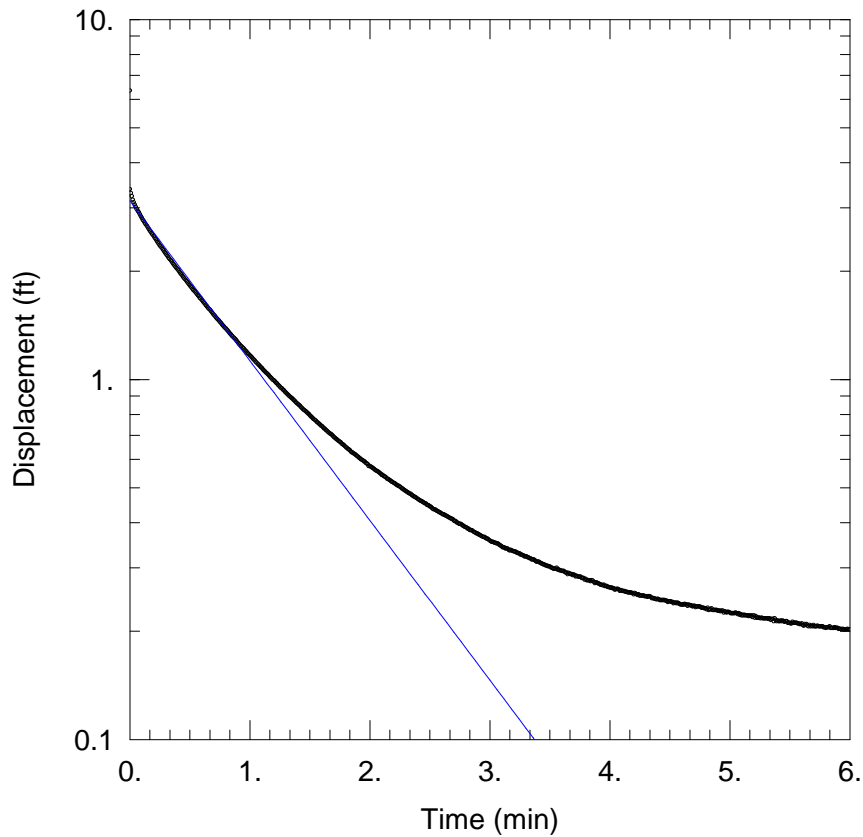
Saturated Thickness: 9.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (15-120)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 6.9 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 102.3 ft
 Screen Length: 2.9 ft
 Well Radius: 0.25 ft



15-120 RISING HEAD TEST 4

Data Set: N:\...\15-120-RH4.aqt
 Date: 05/09/13 Time: 13:22:38

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 15-120
 Test Date: February 22, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001735$ cm/sec
 $y_0 = 3.134$ ft

AQUIFER DATA

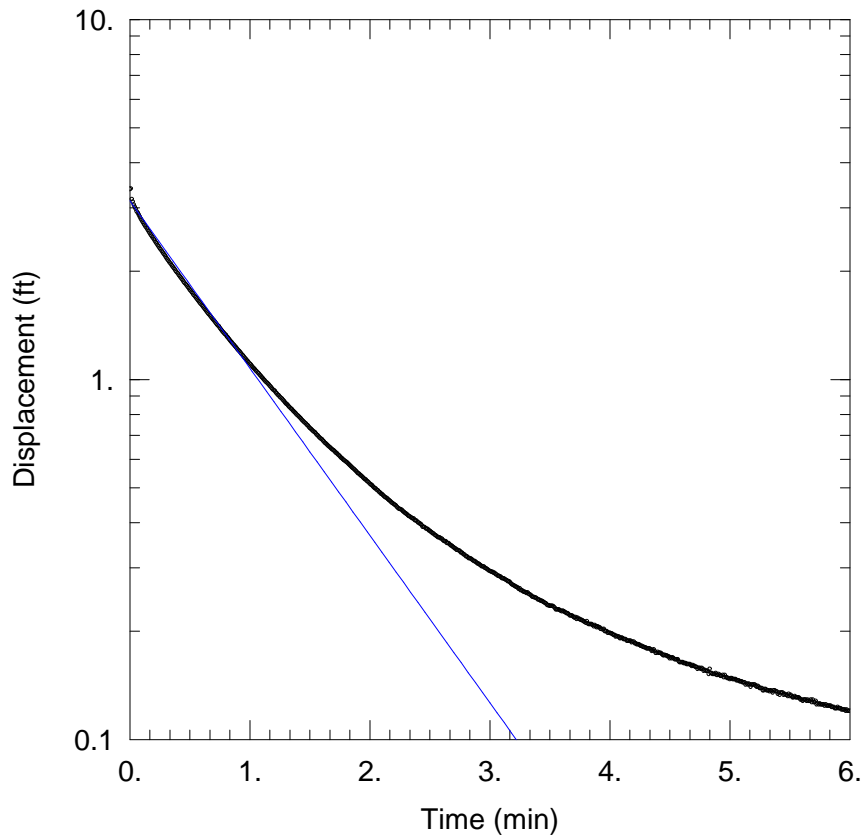
Saturated Thickness: 9.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (15-120)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 6.9 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 102.3 ft
 Screen Length: 2.9 ft
 Well Radius: 0.25 ft



15-120 RISING HEAD TEST 5

Data Set: N:\...\15-120-RH5.aqt
 Date: 05/09/13 Time: 13:22:25

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 15-120
 Test Date: February 22, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001817$ cm/sec
 $y_0 = 3.134$ ft

AQUIFER DATA

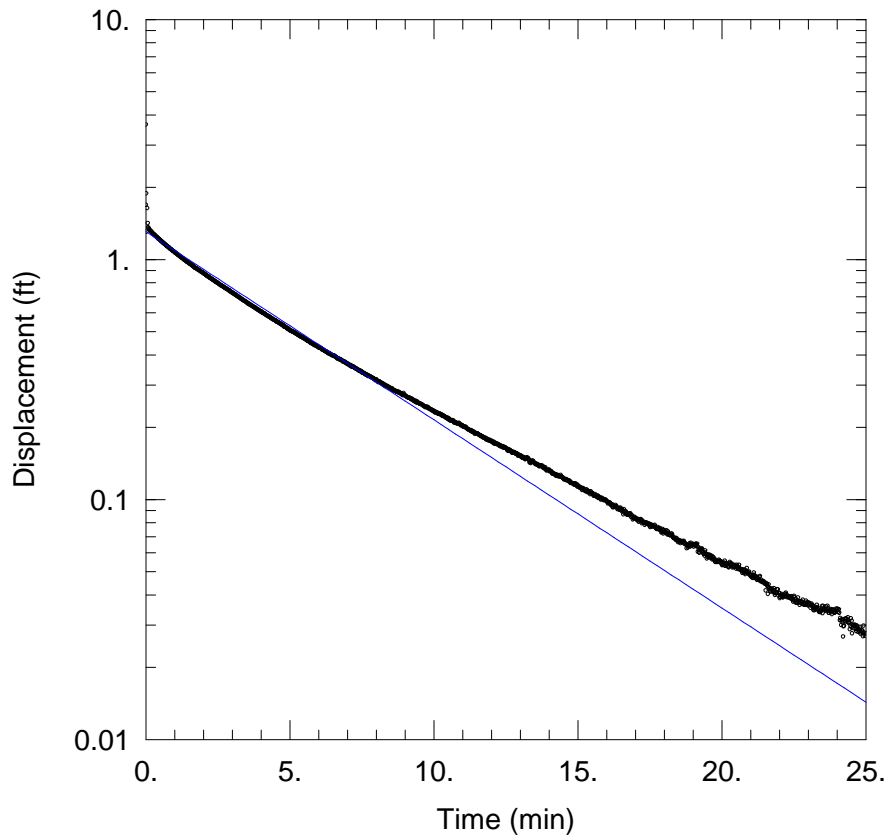
Saturated Thickness: 9.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (15-120)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 6.9 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 102.3 ft
 Screen Length: 2.9 ft
 Well Radius: 0.25 ft



18-50R FALLING HEAD TEST 1

Data Set: N:\...\18-50R-FH1.aqt
 Date: 05/09/13 Time: 13:35:19

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 18-50R
 Test Date: February 21, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0004779$ cm/sec
 $y_0 = 1.307$ ft

AQUIFER DATA

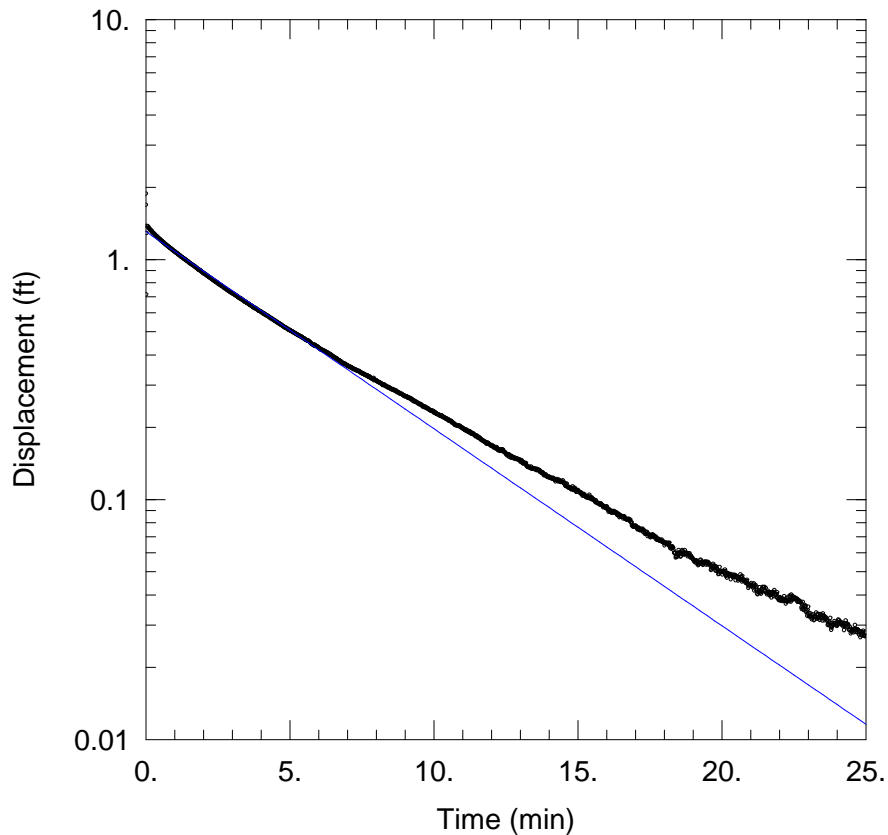
Saturated Thickness: 4.75 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (18-50R)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 4.75 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 36.7 ft
 Screen Length: 1.75 ft
 Well Radius: 0.333 ft



18-50R FALLING HEAD TEST 2

Data Set: N:\...\18-50R-FH2.aqt
 Date: 05/09/13 Time: 13:35:07

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 18-50R
 Test Date: February 22, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0005005$ cm/sec
 $y_0 = 1.307$ ft

AQUIFER DATA

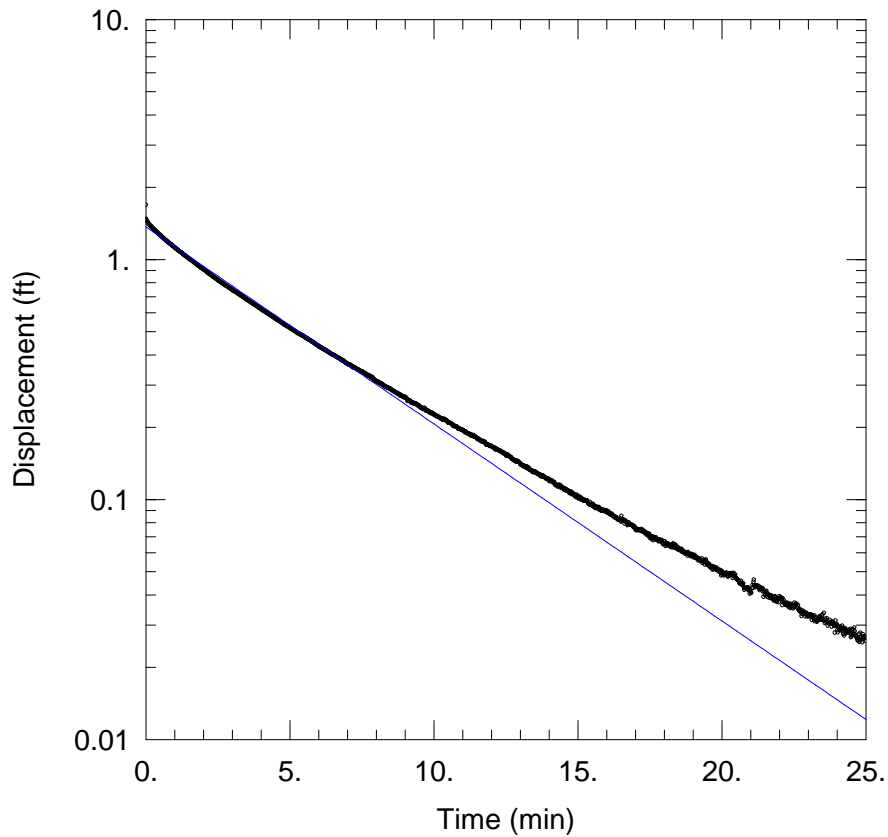
Saturated Thickness: 4.75 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (18-50R)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 4.75 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 36.7 ft
 Screen Length: 1.75 ft
 Well Radius: 0.333 ft



18-50R RISING HEAD TEST 1

Data Set: N:\...\18-50R-RH1.aqt
 Date: 05/09/13 Time: 13:34:55

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 18-50R
 Test Date: February 21, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0005005$ cm/sec
 $y_0 = 1.368$ ft

AQUIFER DATA

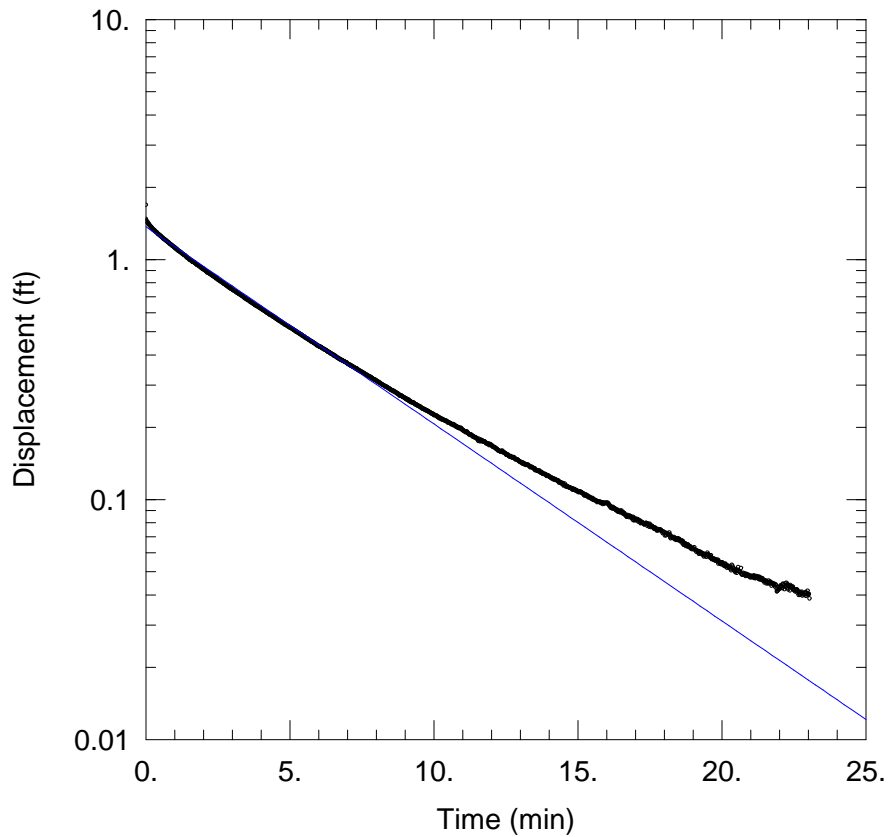
Saturated Thickness: 4.75 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (18-50R)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 4.75 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 36.7 ft
 Screen Length: 1.75 ft
 Well Radius: 0.333 ft



18-50R RISING HEAD TEST 2

Data Set: N:\...\18-50R-RH2.aqt
 Date: 05/09/13 Time: 13:34:41

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 18-50R
 Test Date: February 21, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.0005005 cm/sec
 y0 = 1.368 ft

AQUIFER DATA

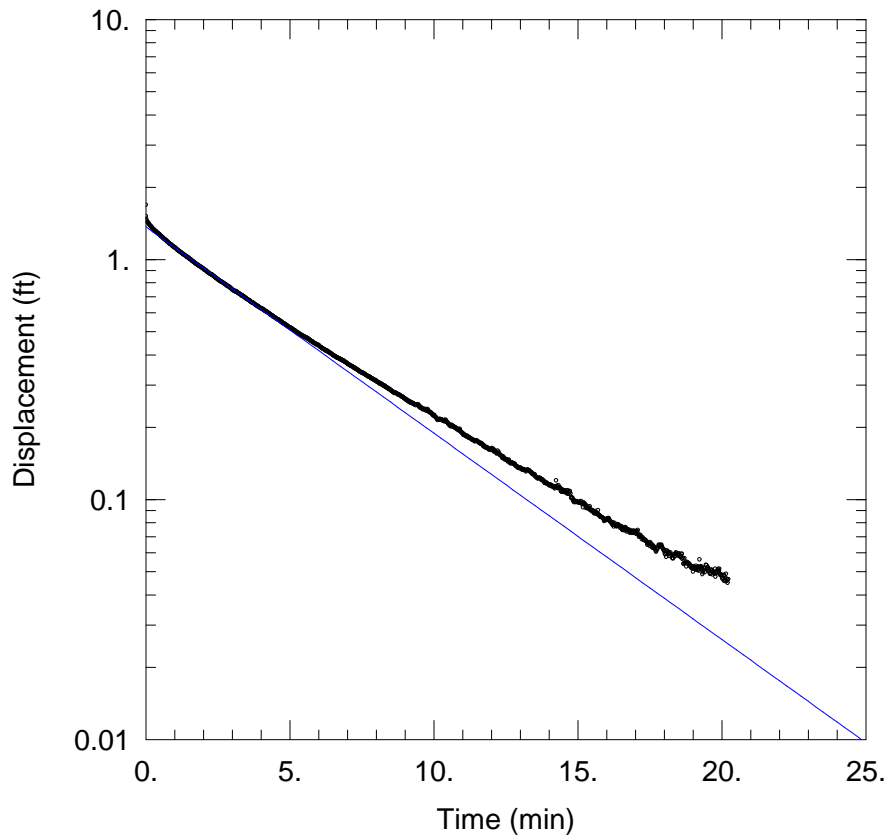
Saturated Thickness: 4.75 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (18-50R)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 4.75 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 36.7 ft
 Screen Length: 1.75 ft
 Well Radius: 0.333 ft



18-50R RISING HEAD TEST 3

Data Set: N:\...\18-50R-RH3.aqt
 Date: 05/09/13 Time: 13:34:29

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 18-50R
 Test Date: February 22, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.000524$ cm/sec
 $y_0 = 1.368$ ft

AQUIFER DATA

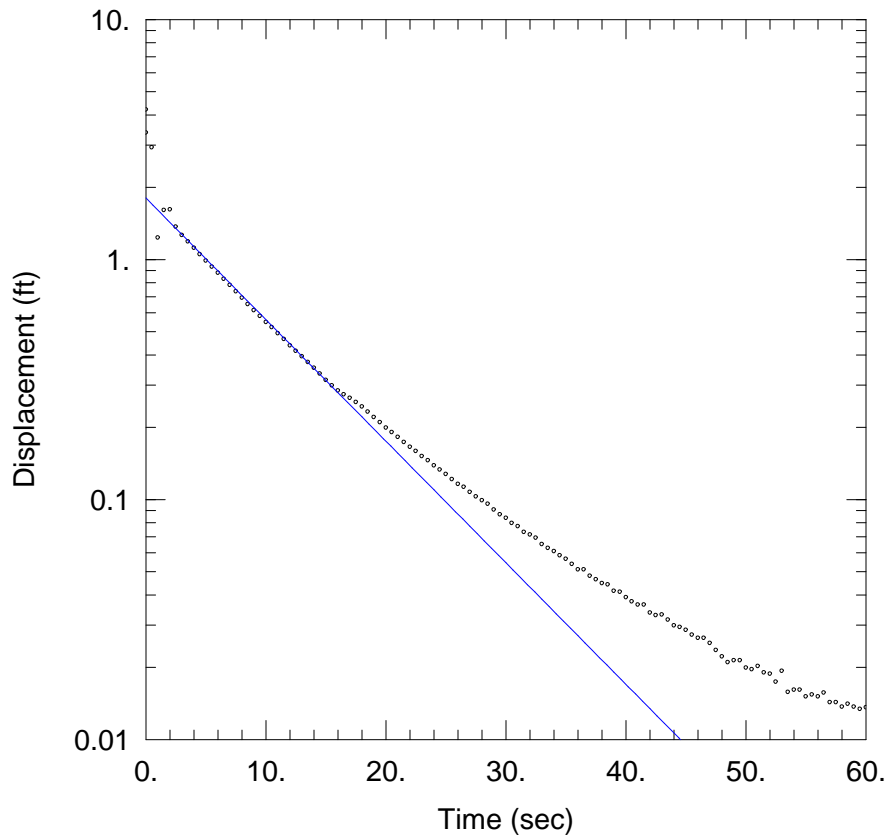
Saturated Thickness: 4.75 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (18-50R)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 4.75 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 36.7 ft
 Screen Length: 1.75 ft
 Well Radius: 0.333 ft



23-25R FALLING HEAD TEST 1

Data Set: N:\...\23-25R-FH1.aqt
 Date: 05/03/13 Time: 09:45:42

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 23-25R
 Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.007203$ cm/sec
 $y_0 = 1.804$ ft

AQUIFER DATA

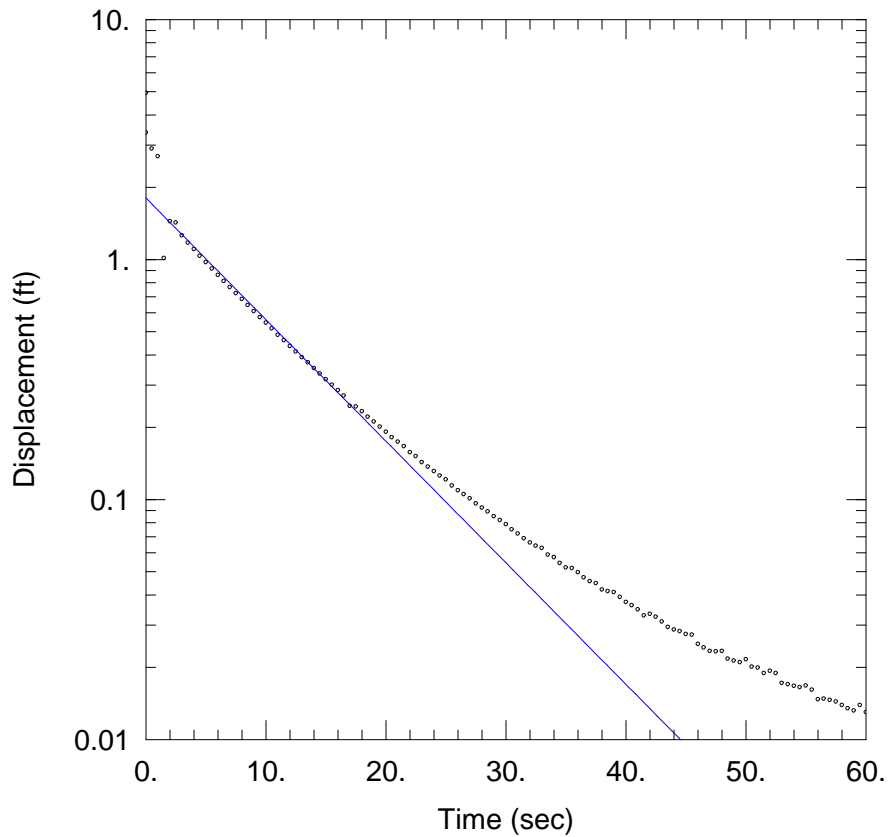
Saturated Thickness: 9.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (23-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 13.94 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



23-25R FALLING HEAD TEST 2

Data Set: N:\...\23-25R-FH2.aqt
 Date: 05/03/13 Time: 09:45:24

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 23-25R
 Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.007203$ cm/sec
 $y_0 = 1.804$ ft

AQUIFER DATA

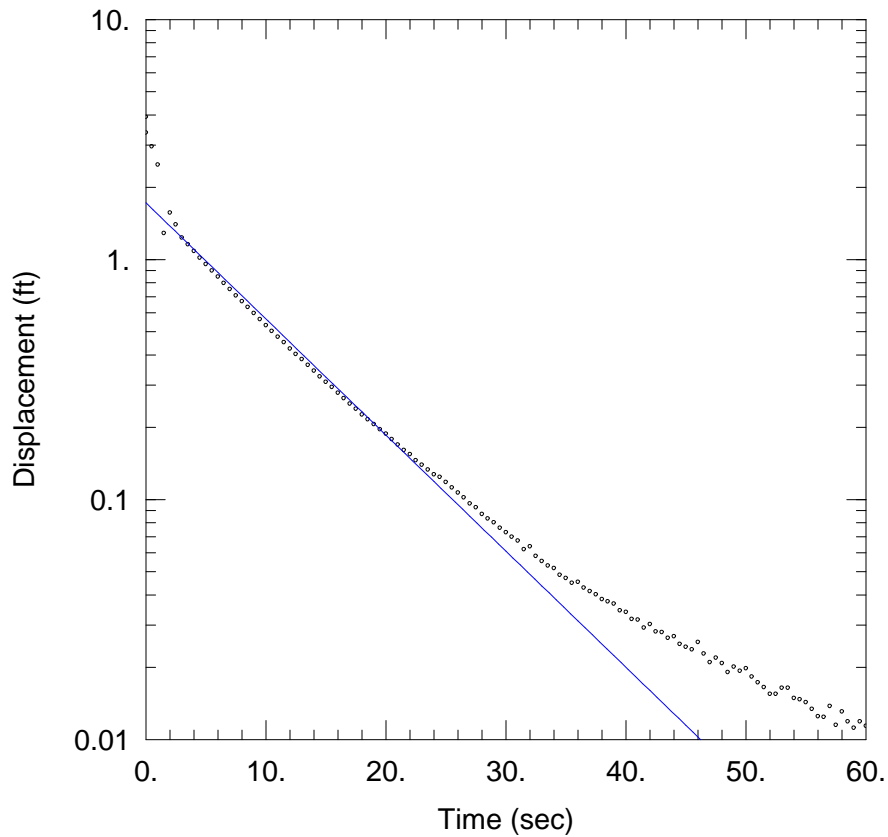
Saturated Thickness: 9.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (23-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 13.94 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



23-25R FALLING HEAD TEST 3

Data Set: N:\...\23-25R-FH3.aqt
 Date: 05/03/13 Time: 09:45:10

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 23-25R
 Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.006879$ cm/sec
 $y_0 = 1.722$ ft

AQUIFER DATA

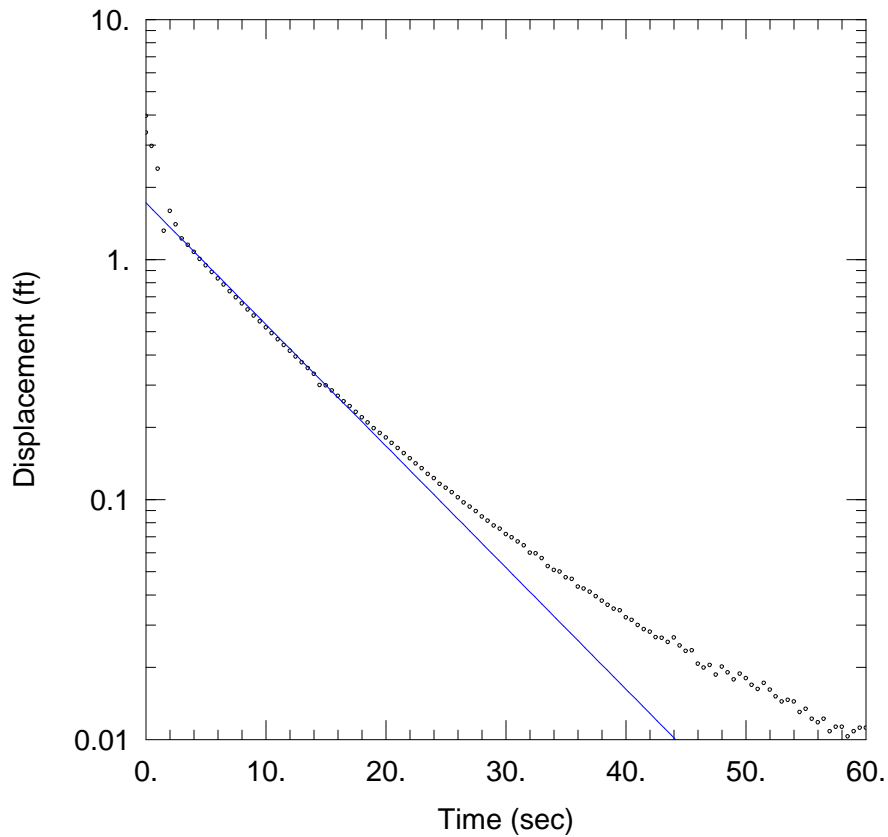
Saturated Thickness: 9.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (23-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 13.94 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



23-25R FALLING HEAD TEST 4

Data Set: N:\...\23-25R-FH4.aqt
 Date: 05/03/13 Time: 09:44:54

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 23-25R
 Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.007203$ cm/sec
 $y_0 = 1.722$ ft

AQUIFER DATA

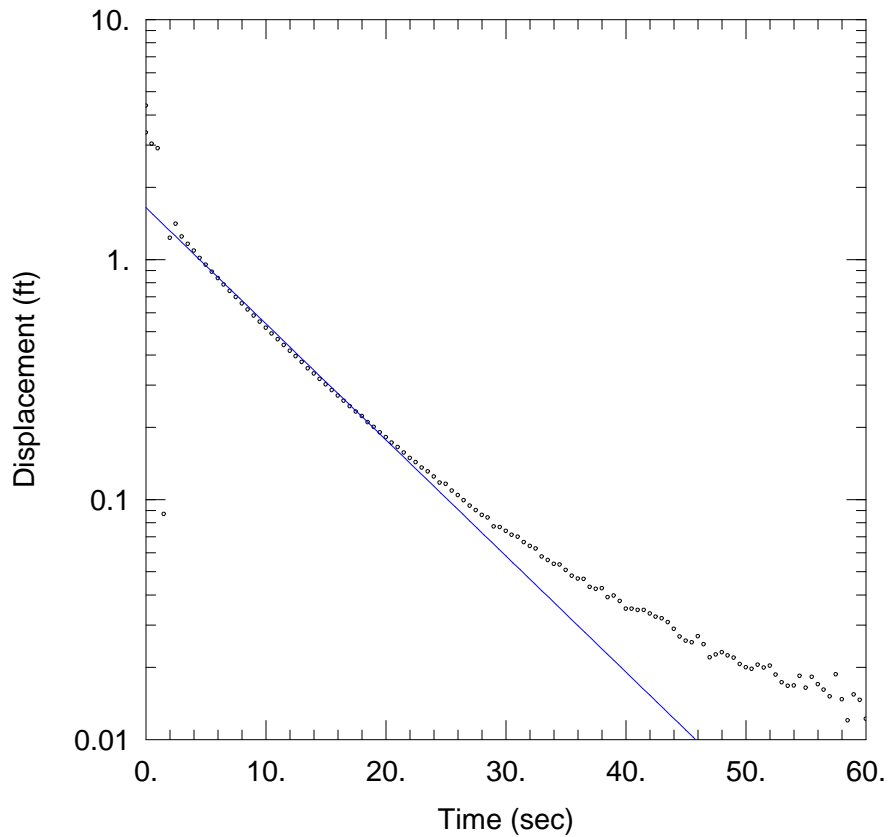
Saturated Thickness: 9.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (23-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 13.94 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



23-25R FALLING HEAD TEST 5

Data Set: N:\...\23-25R-FH5.aqt
 Date: 05/03/13 Time: 09:44:39

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 23-25R
 Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.006879$ cm/sec
 $y_0 = 1.645$ ft

AQUIFER DATA

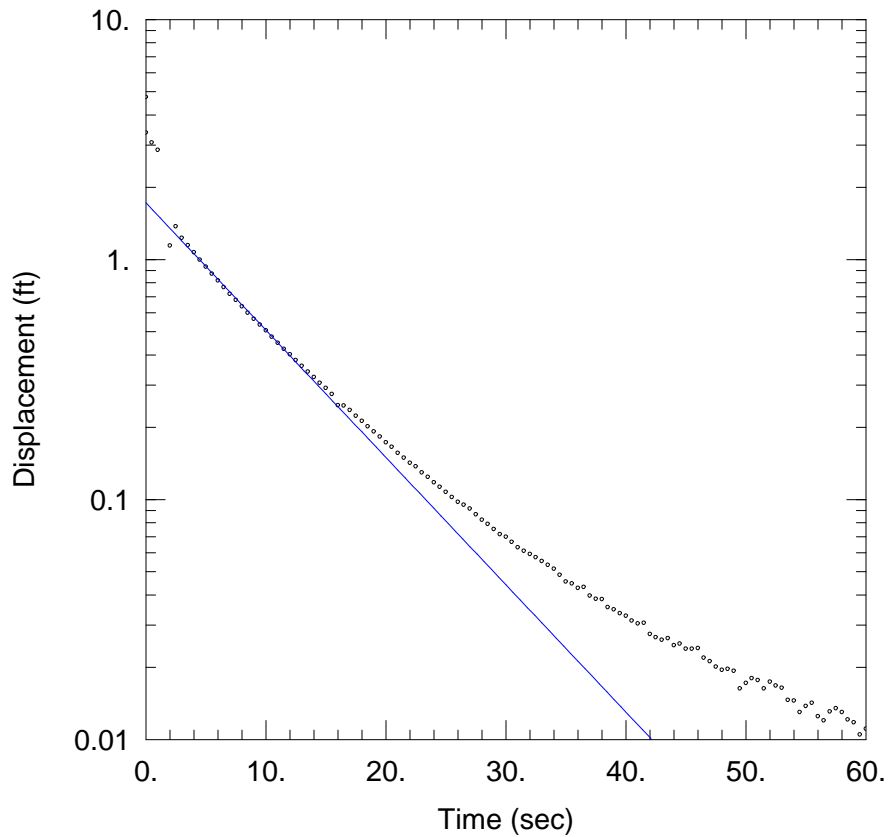
Saturated Thickness: 9.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (23-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 13.94 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



23-25R FALLING HEAD TEST 6

Data Set: N:\...\23-25R-FH6.aqt
 Date: 05/03/13 Time: 09:44:24

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 23-25R
 Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.007543$ cm/sec
 $y_0 = 1.722$ ft

AQUIFER DATA

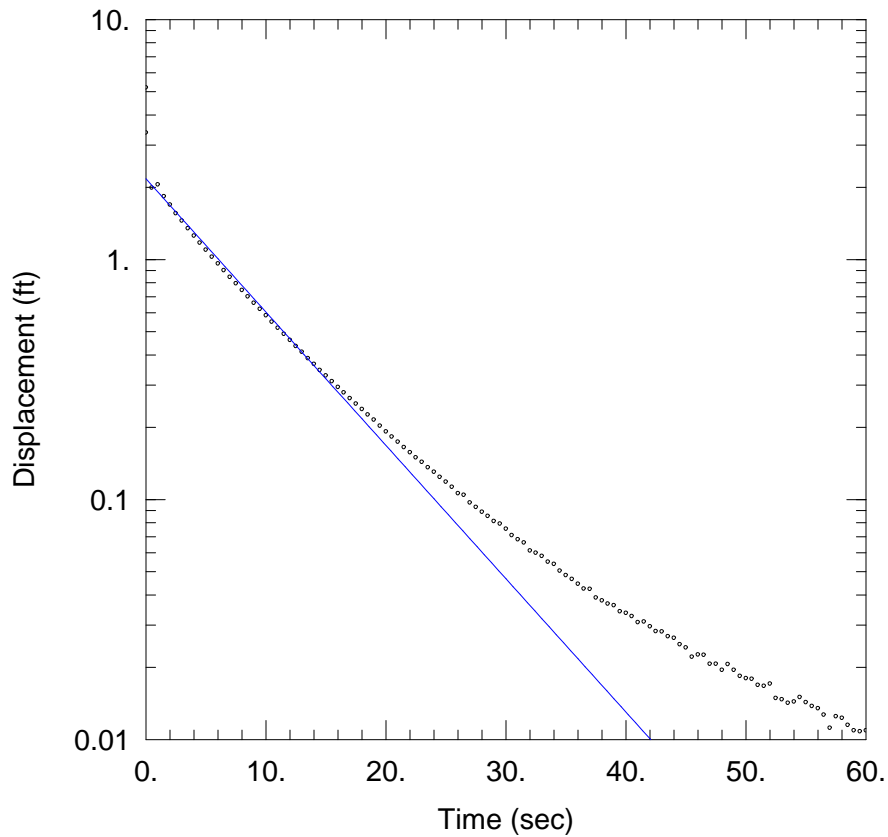
Saturated Thickness: 9.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (23-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 13.94 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



23-25R RISING HEAD TEST 1

Data Set: N:\...\23-25R-RH1.aqt
 Date: 05/03/13 Time: 09:56:03

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 23-25R
 Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.007898$ cm/sec
 $y_0 = 2.168$ ft

AQUIFER DATA

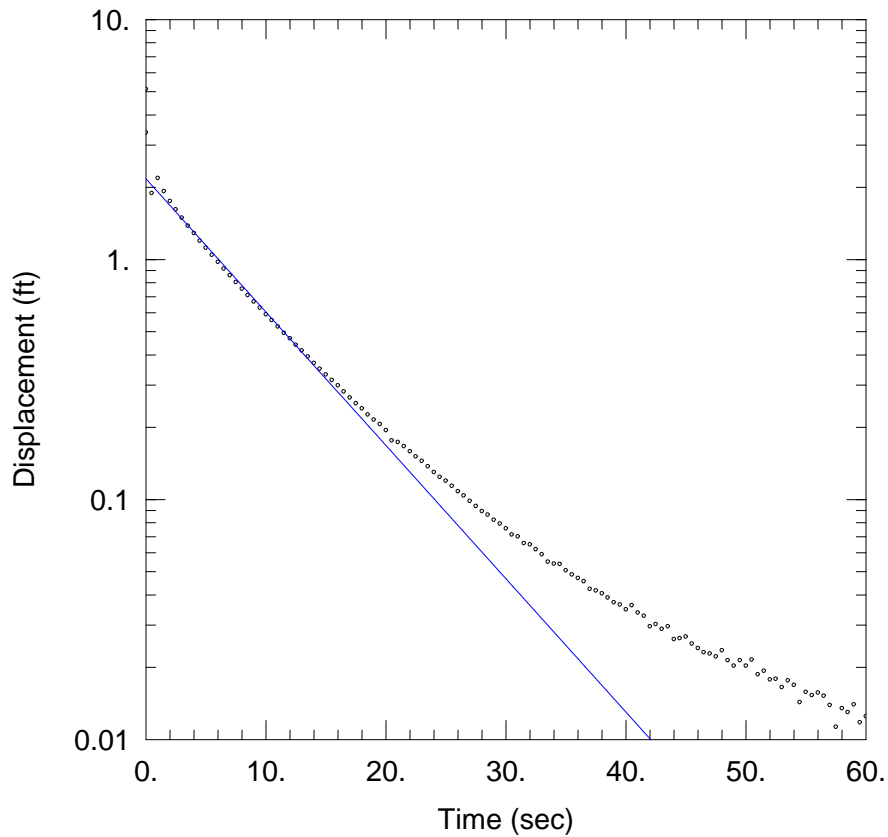
Saturated Thickness: 9.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (23-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 13.94 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



23-25R RISING HEAD TEST 2

Data Set: N:\...\23-25R-RH2.aqt
 Date: 05/03/13 Time: 09:55:49

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 23-25R
 Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.007898 cm/sec
 y0 = 2.168 ft

AQUIFER DATA

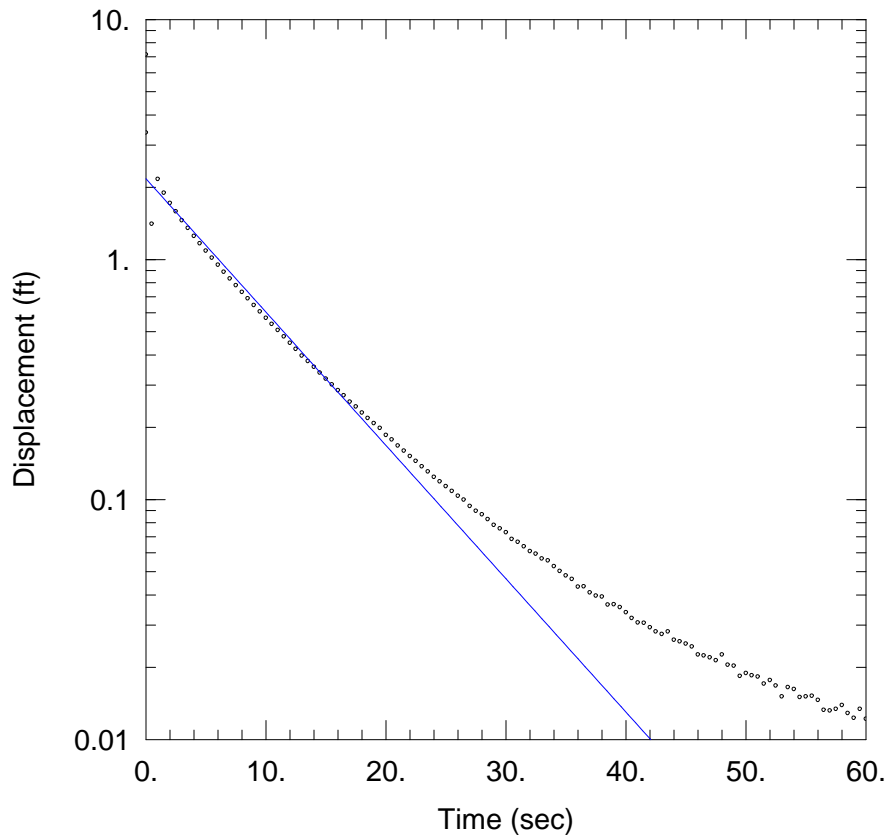
Saturated Thickness: 9.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (23-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 13.94 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



23-25R RISING HEAD TEST 3

Data Set: N:\...\23-25R-RH3.aqt
 Date: 05/03/13 Time: 09:55:35

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 23-25R
 Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.007898$ cm/sec
 $y_0 = 2.168$ ft

AQUIFER DATA

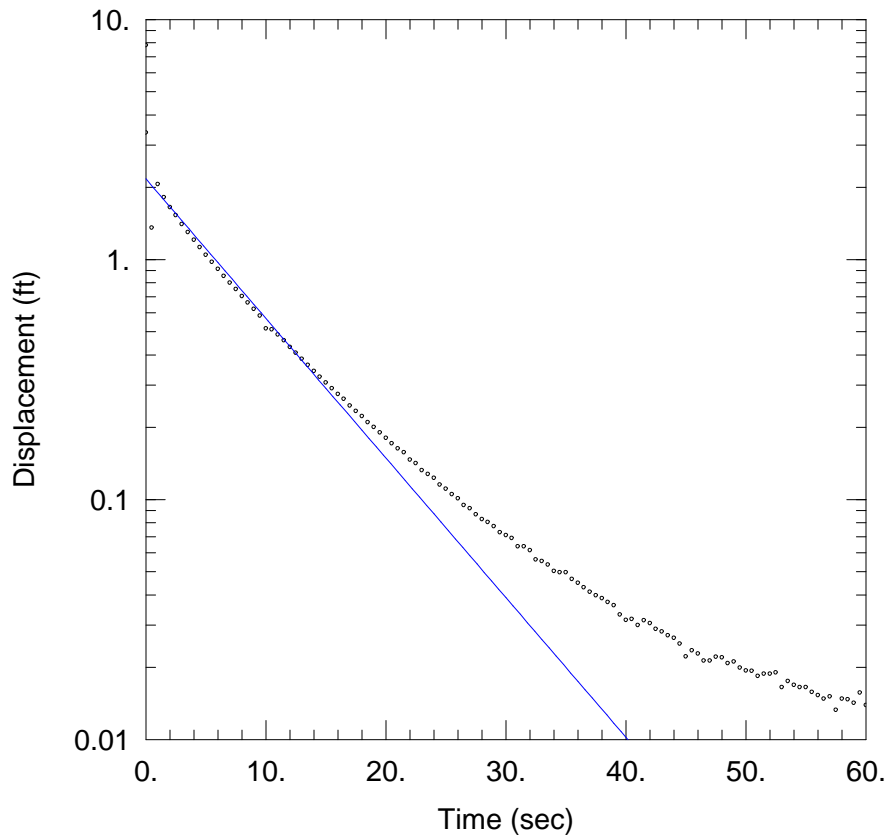
Saturated Thickness: 9.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (23-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 13.94 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



23-25R RISING HEAD TEST 4

Data Set: N:\...\23-25R-RH4.aqt
 Date: 05/03/13 Time: 09:55:23

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 23-25R
 Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.00827$ cm/sec
 $y_0 = 2.168$ ft

AQUIFER DATA

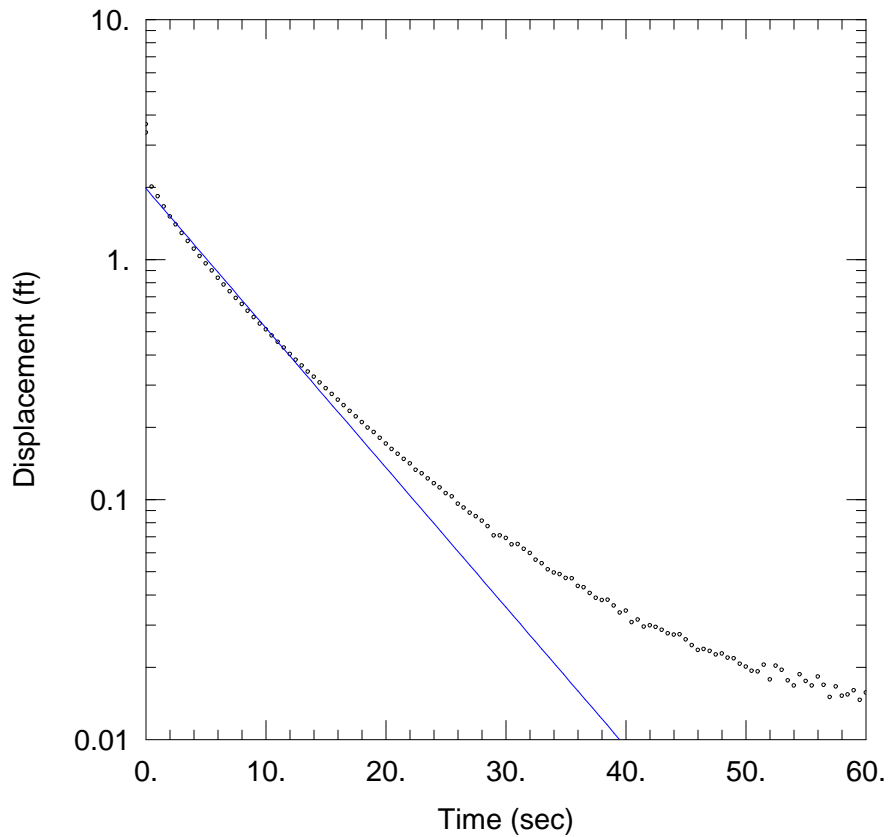
Saturated Thickness: 9.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (23-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 13.94 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



23-25R RISING HEAD TEST 5

Data Set: N:\...\23-25R-RH5.aqt
 Date: 05/03/13 Time: 09:55:09

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 23-25R
 Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.00827 cm/sec
 y0 = 1.978 ft

AQUIFER DATA

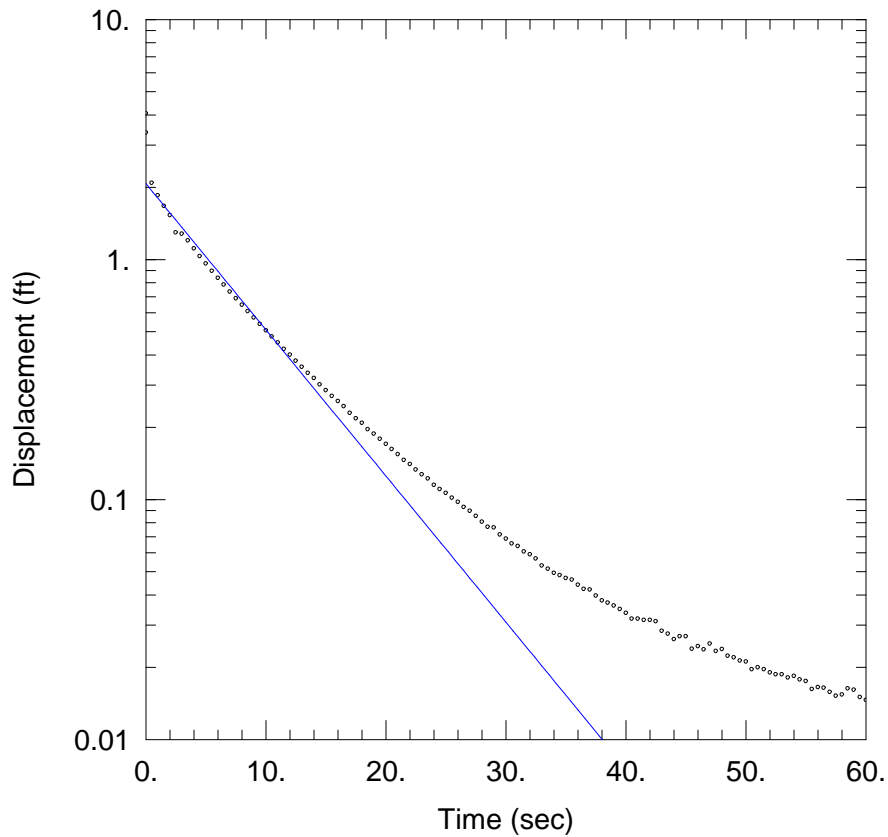
Saturated Thickness: 9.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (23-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 13.94 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



23-25R RISING HEAD TEST 6

Data Set: N:\...\23-25R-RH6.aqt
 Date: 05/03/13 Time: 09:54:56

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 23-25R
 Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.00866$ cm/sec
 $y_0 = 2.071$ ft

AQUIFER DATA

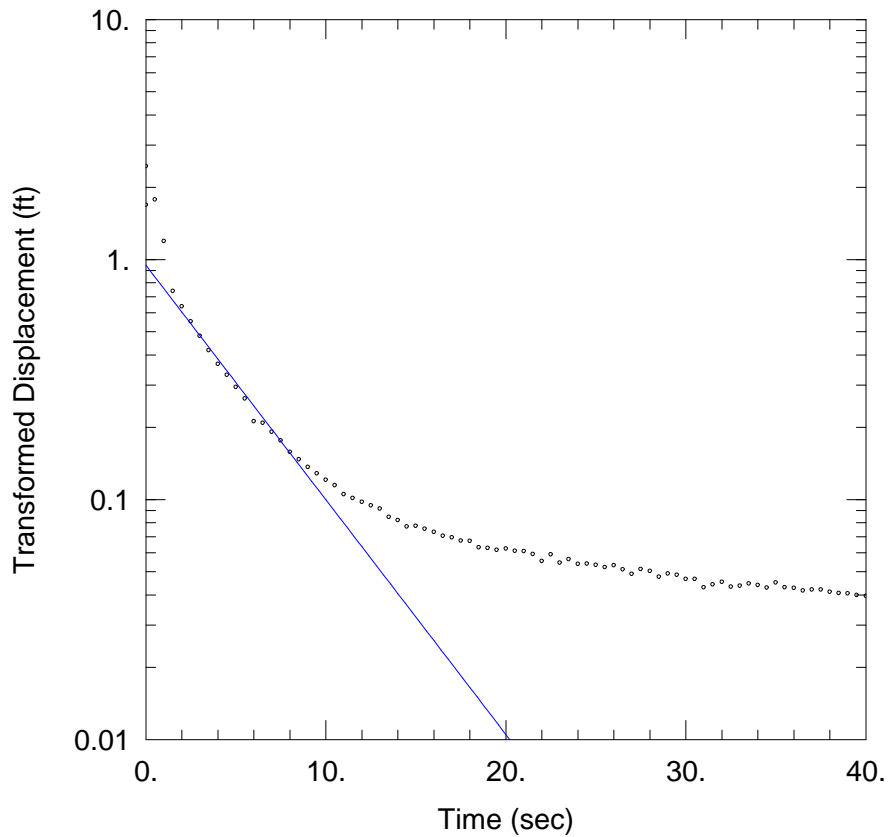
Saturated Thickness: 9.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (23-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 13.94 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



24-15 FALLING HEAD TEST 1

Data Set: N:\...\24-15-FH1.aqt
 Date: 05/03/13 Time: 10:20:26

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 24-15
 Test Date: February 25, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice
 $K = 0.07543$ cm/sec
 $y_0 = 0.9465$ ft

AQUIFER DATA

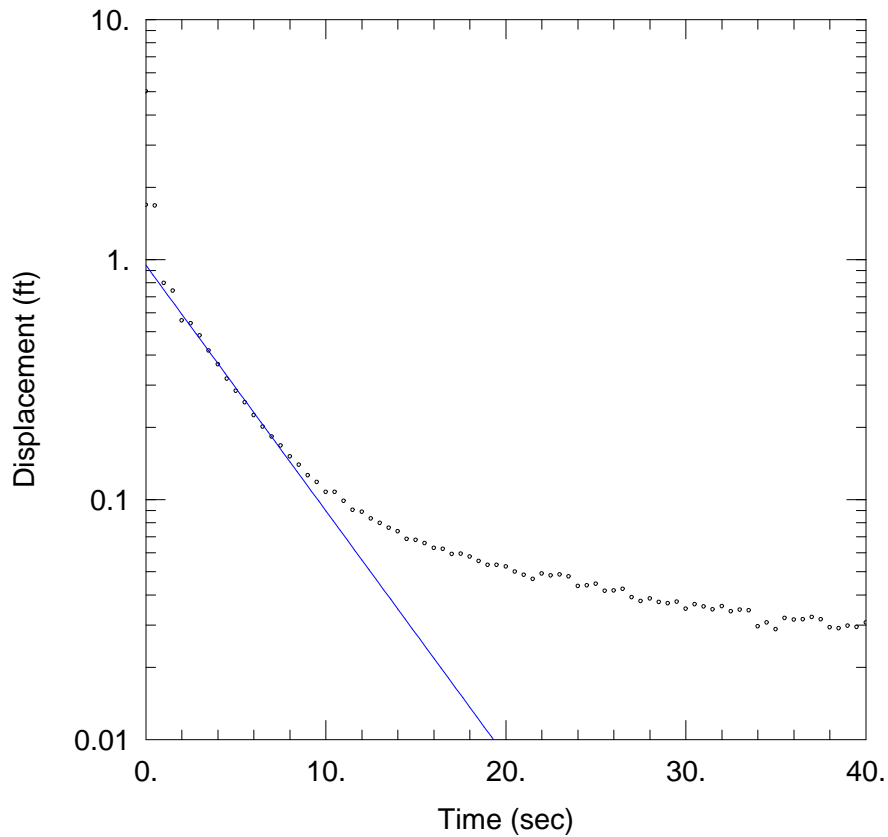
Saturated Thickness: 7.39 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (24-15)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 5.89 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 5.89 ft
 Screen Length: 5 ft
 Well Radius: 0.3438 ft
 Gravel Pack Porosity: 0.3



24-15 FALLING HEAD TEST 2

Data Set: N:\...\24-15-FH2.aqt
 Date: 05/03/13 Time: 10:20:53

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 24-15
 Test Date: February 25, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice
 K = 0.07898 cm/sec
 y0 = 0.9465 ft

AQUIFER DATA

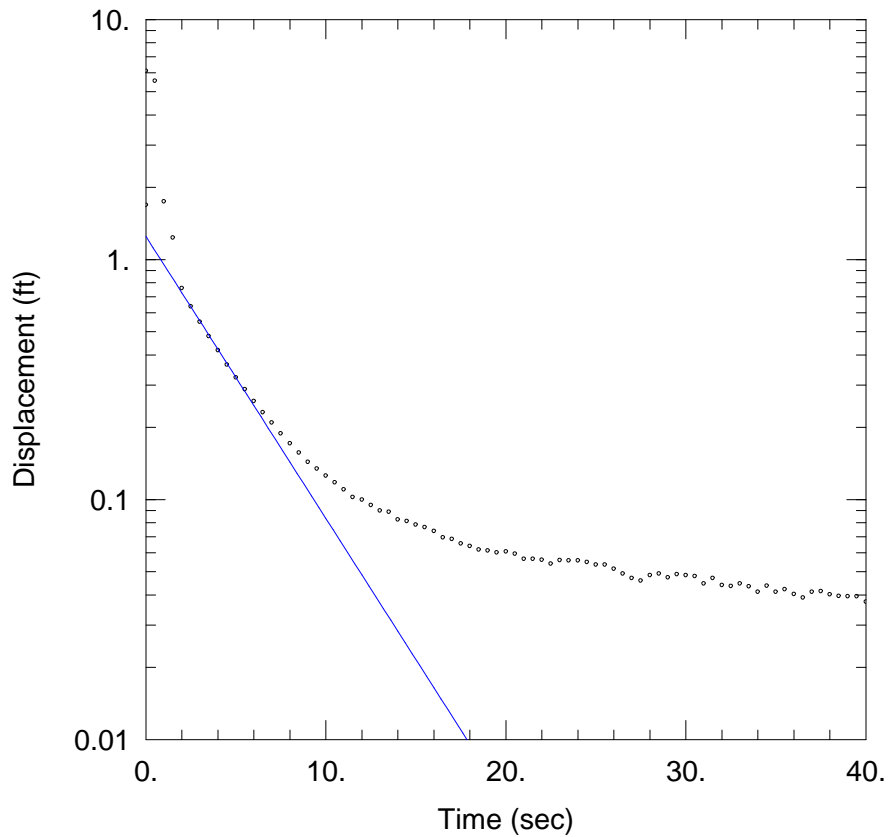
Saturated Thickness: 7.39 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (24-15)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 5.89 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 5.89 ft
 Screen Length: 5 ft
 Well Radius: 0.3438 ft
 Gravel Pack Porosity: 0.3



24-15 FALLING HEAD TEST 3

Data Set: N:\...\24-15-FH3.aqt
 Date: 05/03/13 Time: 10:21:20

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 24-15
 Test Date: February 25, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice
 $K = 0.09068$ cm/sec
 $y_0 = 1.248$ ft

AQUIFER DATA

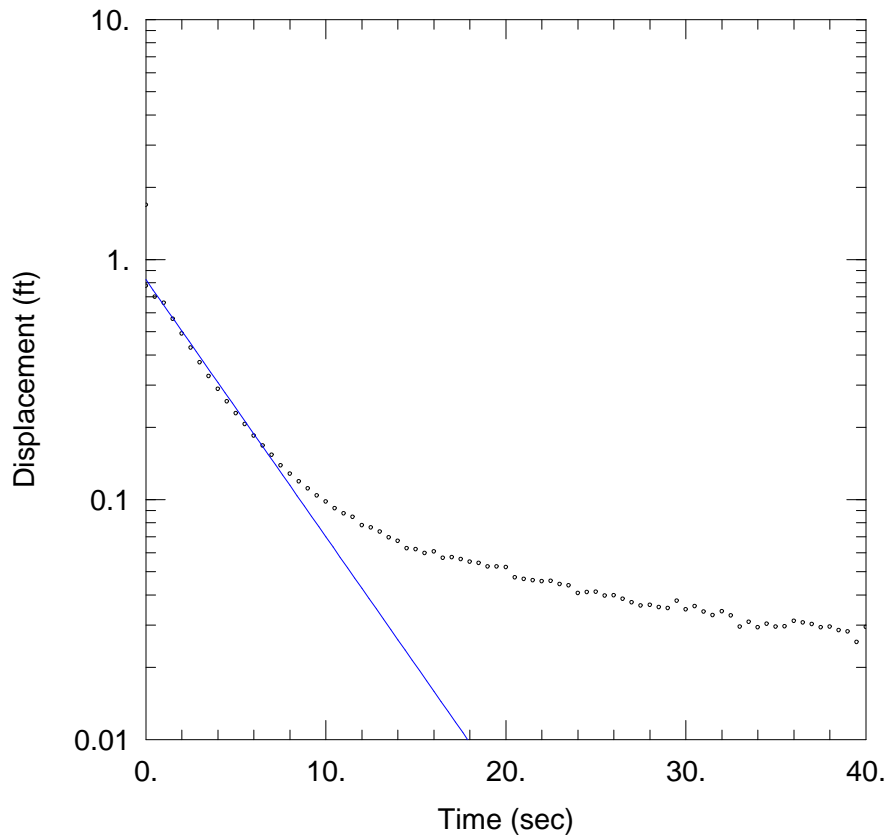
Saturated Thickness: 7.39 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (24-15)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 5.89 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 5.89 ft
 Screen Length: 5 ft
 Well Radius: 0.3438 ft
 Gravel Pack Porosity: 0.3



24-15 FALLING HEAD TEST 4

Data Set: N:\...\24-15-FH4.aqt
 Date: 05/03/13 Time: 10:19:41

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 24-15
 Test Date: February 25, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice
 K = 0.0827 cm/sec
 y0 = 0.8244 ft

AQUIFER DATA

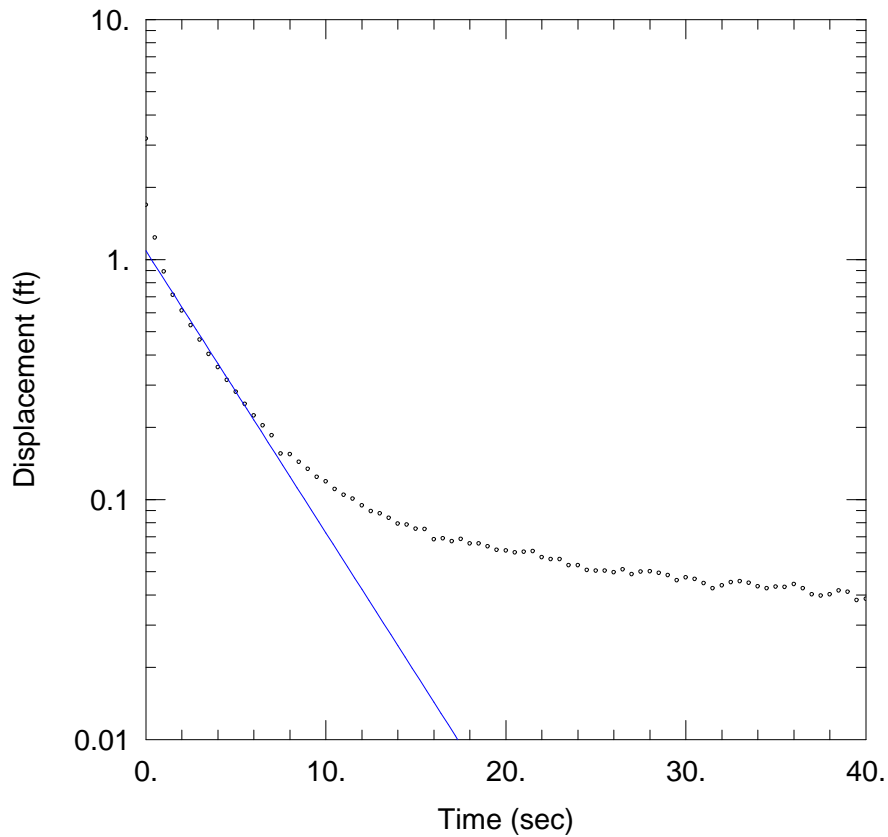
Saturated Thickness: 7.39 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (24-15)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 5.89 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 5.89 ft
 Screen Length: 5 ft
 Well Radius: 0.3438 ft
 Gravel Pack Porosity: 0.3



24-15 FALLING HEAD TEST 5

Data Set: N:\...\24-15-FH5.aqt
 Date: 05/03/13 Time: 10:19:16

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 24-15
 Test Date: February 25, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice
 K = 0.09068 cm/sec
 y0 = 1.087 ft

AQUIFER DATA

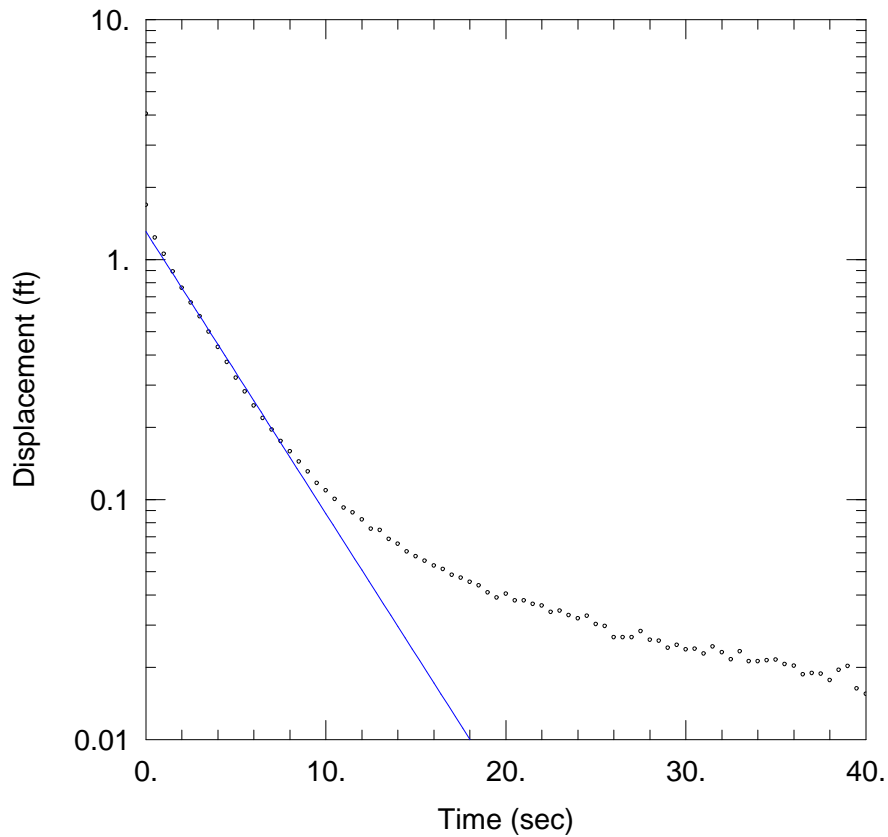
Saturated Thickness: 7.39 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (24-15)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 5.89 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 5.89 ft
 Screen Length: 5 ft
 Well Radius: 0.3438 ft
 Gravel Pack Porosity: 0.3



24-15 RISING HEAD TEST 1

Data Set: N:\...\24-15-RH1.aqt

Date: 05/03/13

Time: 11:18:48

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 24-15

Test Date: February 25, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 0.09068 cm/sec

y0 = 1.307 ft

AQUIFER DATA

Saturated Thickness: 7.39 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (24-15)

Initial Displacement: 1.688 ft

Total Well Penetration Depth: 5.89 ft

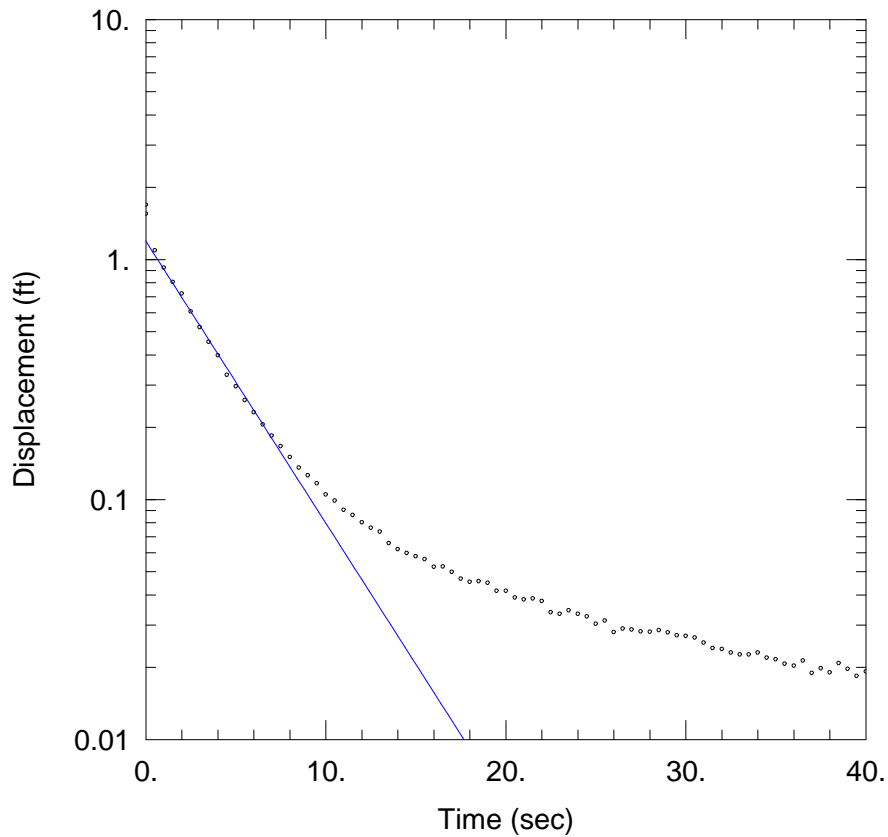
Casing Radius: 0.0835 ft

Static Water Column Height: 5.89 ft

Screen Length: 5 ft

Well Radius: 0.3438 ft

Gravel Pack Porosity: 0.3



24-15 RISING HEAD TEST 2

Data Set: N:\...\24-15-RH2.aqt
 Date: 05/03/13 Time: 11:18:33

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 24-15
 Test Date: February 25, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice
 K = 0.09068 cm/sec
 y0 = 1.192 ft

AQUIFER DATA

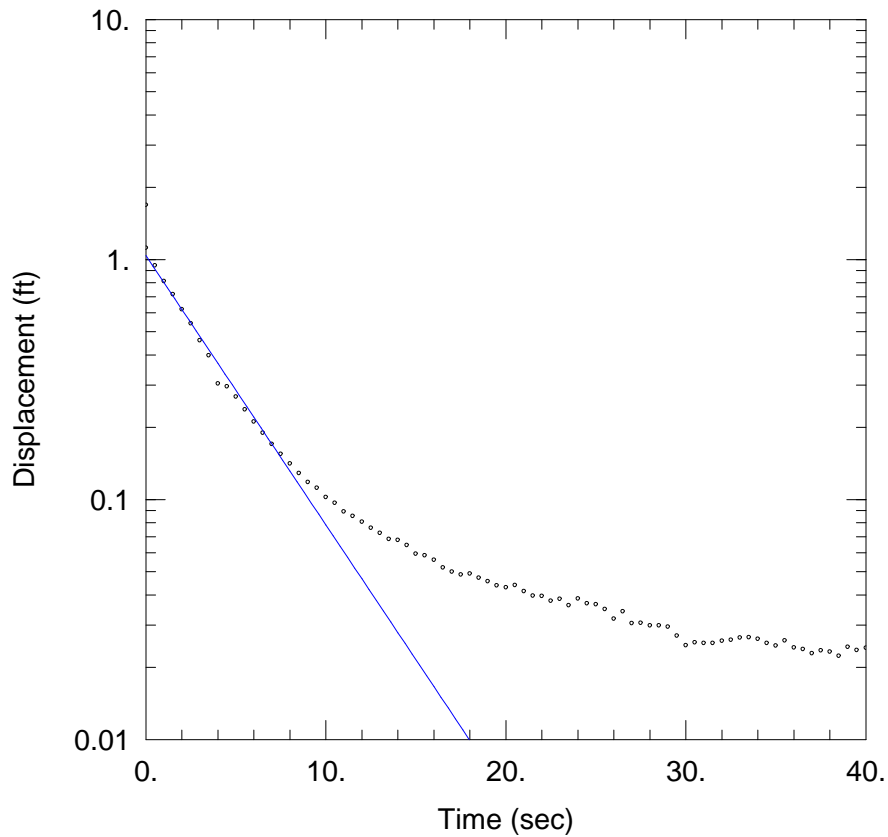
Saturated Thickness: 7.39 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (24-15)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 5.89 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 5.89 ft
 Screen Length: 5 ft
 Well Radius: 0.3438 ft
 Gravel Pack Porosity: 0.3



24-15 RISING HEAD TEST 3

Data Set: N:\...\24-15-RH3.aqt
 Date: 05/03/13 Time: 11:18:21

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 24-15
 Test Date: February 25, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice
 K = 0.0866 cm/sec
 y0 = 1.038 ft

AQUIFER DATA

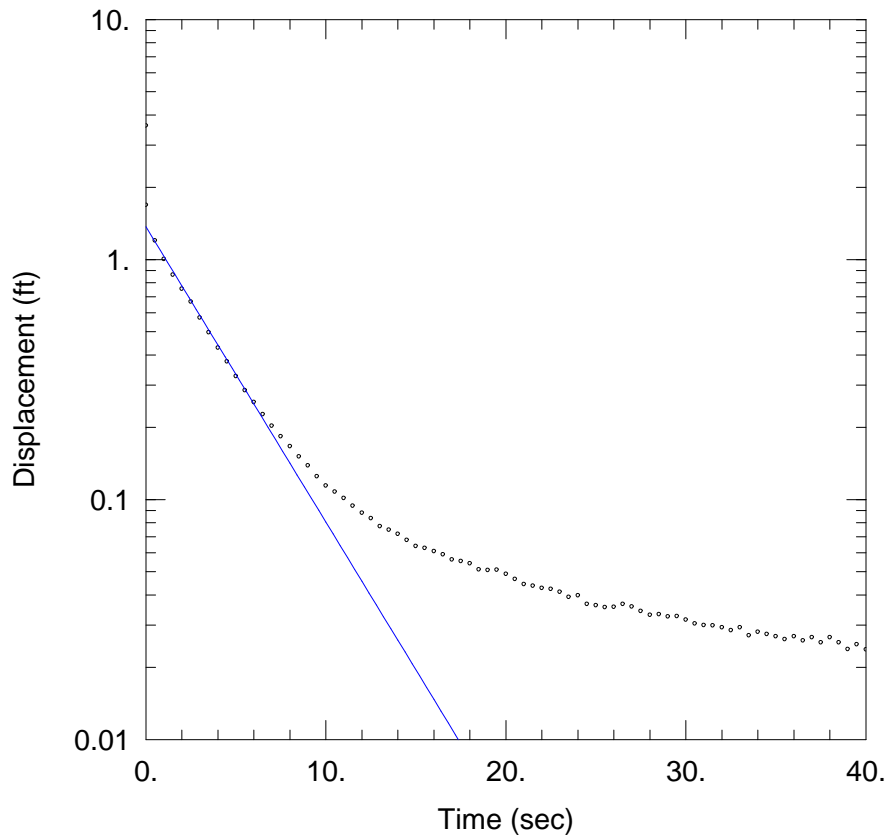
Saturated Thickness: 7.39 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (24-15)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 5.89 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 5.89 ft
 Screen Length: 5 ft
 Well Radius: 0.3438 ft
 Gravel Pack Porosity: 0.3



24-15 RISING HEAD TEST 4

Data Set: N:\...\24-15-RH4.aqt
 Date: 05/03/13 Time: 11:18:08

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 24-15
 Test Date: February 25, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice
 $K = 0.09496$ cm/sec
 $y_0 = 1.368$ ft

AQUIFER DATA

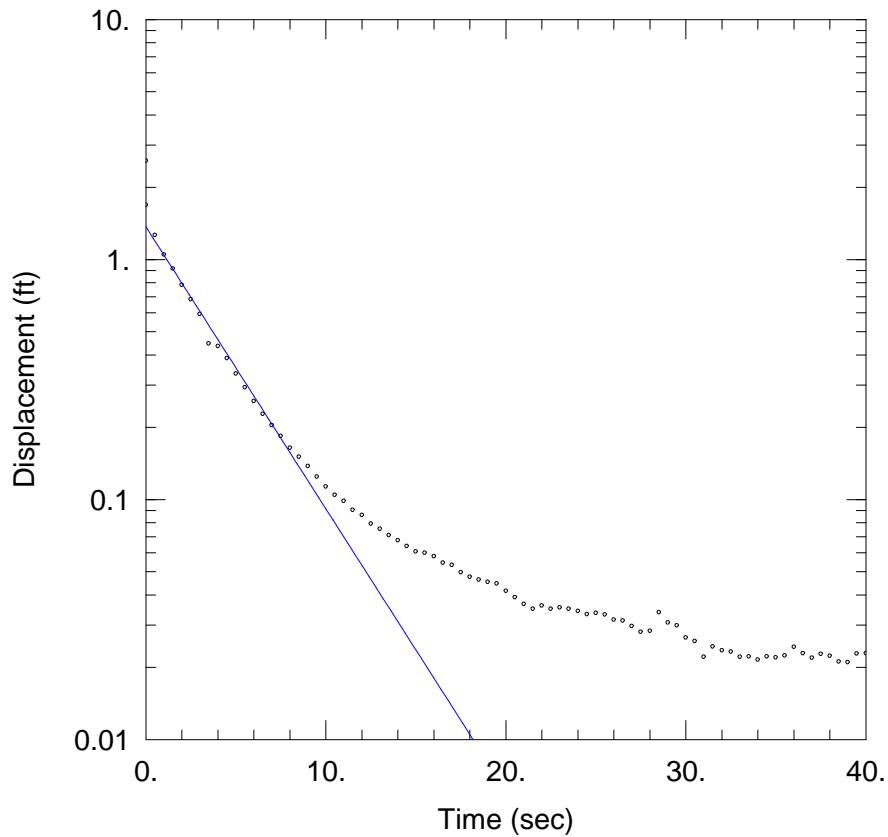
Saturated Thickness: 7.39 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (24-15)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 5.89 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 5.89 ft
 Screen Length: 5 ft
 Well Radius: 0.3438 ft
 Gravel Pack Porosity: 0.3



24-15 RISING HEAD TEST 5

Data Set: N:\...\24-15-RH5.aqt
 Date: 05/03/13 Time: 11:17:44

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 24-15
 Test Date: February 25, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice
 $K = 0.09068$ cm/sec
 $y_0 = 1.368$ ft

AQUIFER DATA

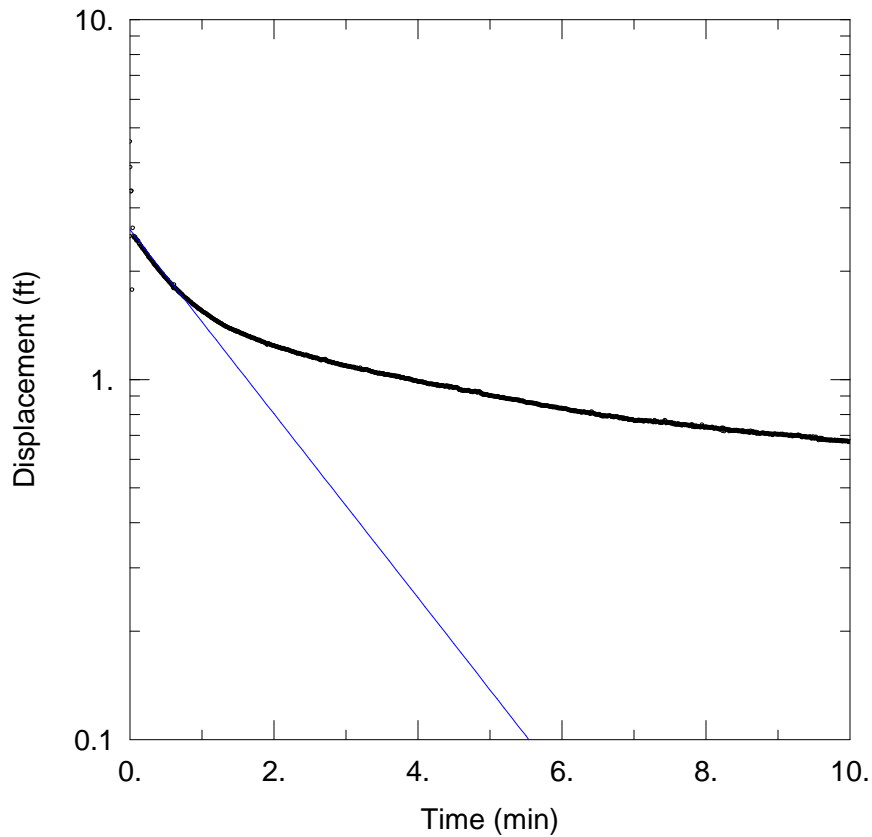
Saturated Thickness: 7.39 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (24-15)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 5.89 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 5.89 ft
 Screen Length: 5 ft
 Well Radius: 0.3438 ft
 Gravel Pack Porosity: 0.3



24-35 FALLING HEAD TEST 1

Data Set: N:\...\24-35-FH1.aqt

Date: 05/03/13

Time: 11:51:28

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 24-35

Test Date: February 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0009107 cm/sec

y0 = 2.607 ft

AQUIFER DATA

Saturated Thickness: 6.43 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (24-35)

Initial Displacement: 2.5 ft

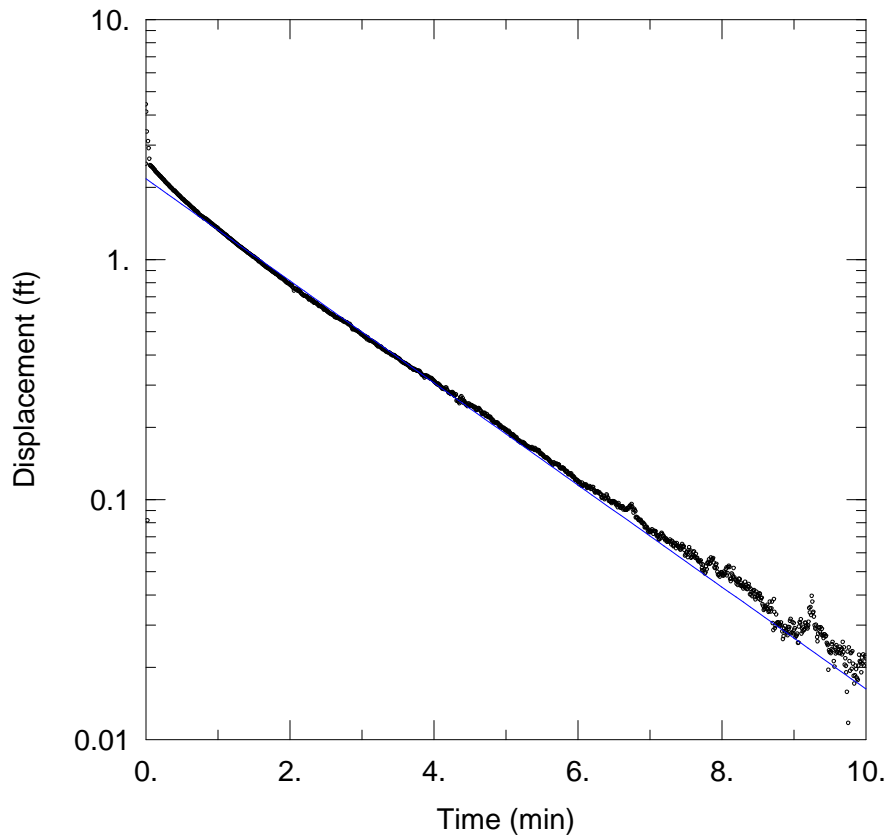
Total Well Penetration Depth: 6.43 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 22.49 ft

Screen Length: 3.43 ft

Well Radius: 0.3438 ft



24-35 FALLING HEAD TEST 2

Data Set: N:\...\24-35-FH2.aqt
 Date: 05/03/13 Time: 11:51:14

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 24-35
 Test Date: February 25, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0007575$ cm/sec
 $y_0 = 2.168$ ft

AQUIFER DATA

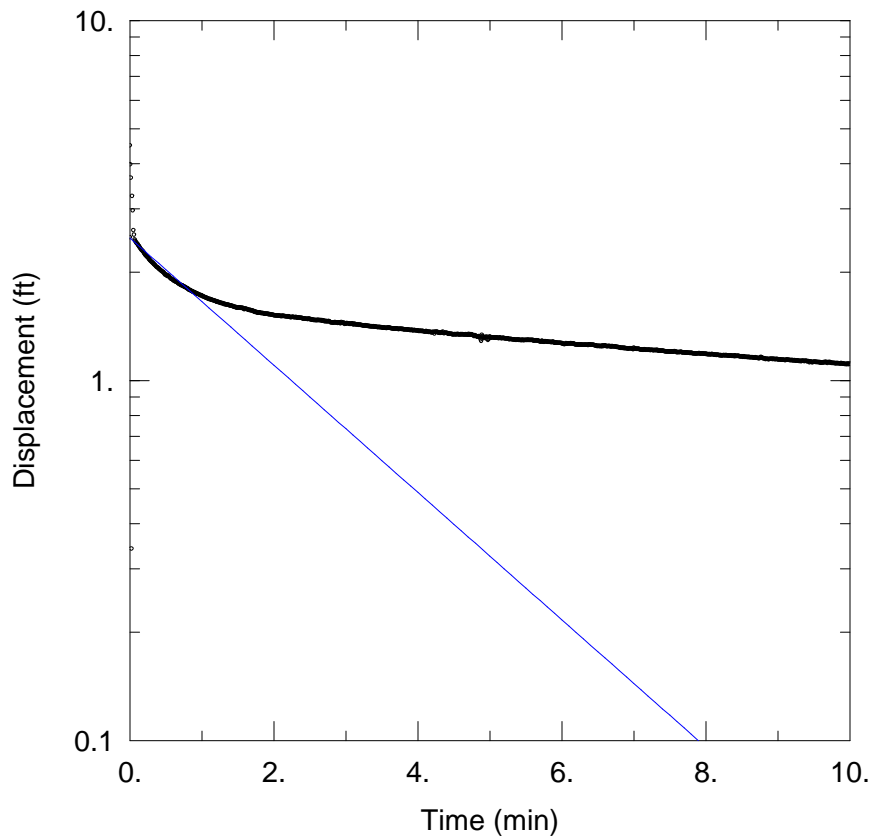
Saturated Thickness: 6.43 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (24-35)

Initial Displacement: 2.5 ft
 Total Well Penetration Depth: 6.43 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 22.49 ft
 Screen Length: 3.43 ft
 Well Radius: 0.3438 ft



24-35 FALLING HEAD TEST 3

Data Set: N:\...\24-35-FH3.aqt

Date: 05/03/13

Time: 11:51:00

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 24-35

Test Date: February 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.00063 cm/sec

y0 = 2.49 ft

AQUIFER DATA

Saturated Thickness: 6.43 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (24-35)

Initial Displacement: 2.5 ft

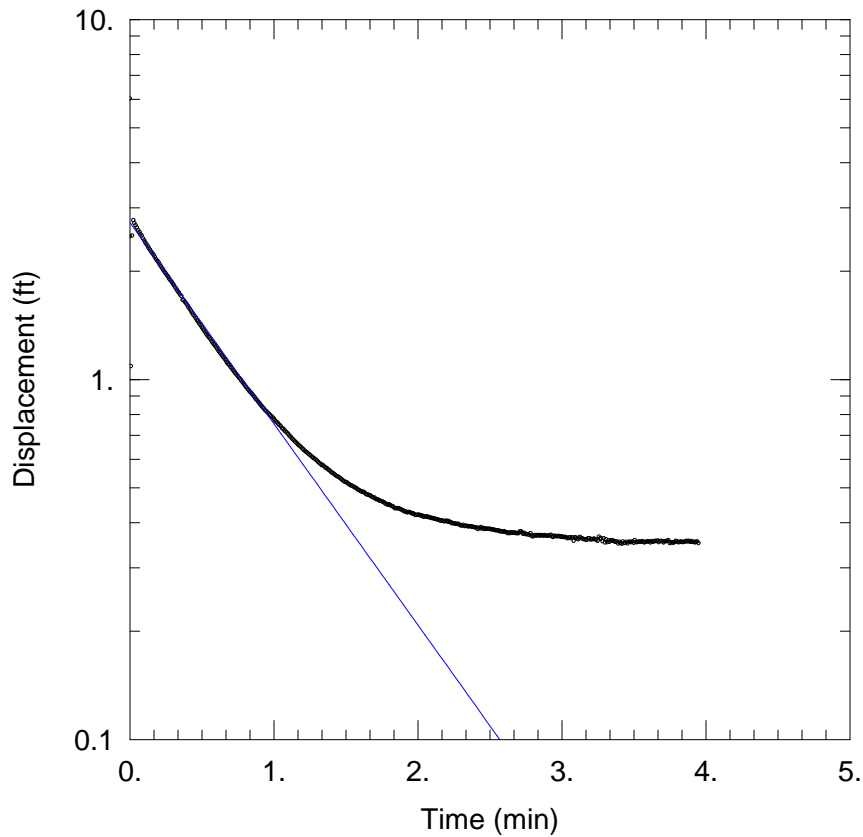
Total Well Penetration Depth: 6.43 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 22.49 ft

Screen Length: 3.43 ft

Well Radius: 0.3438 ft



24-35 RISING HEAD TEST 1

Data Set: N:\...\24-35-RH1.aqt
 Date: 05/03/13 Time: 11:50:44

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 24-35
 Test Date: February 25, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001992$ cm/sec
 $y_0 = 2.73$ ft

AQUIFER DATA

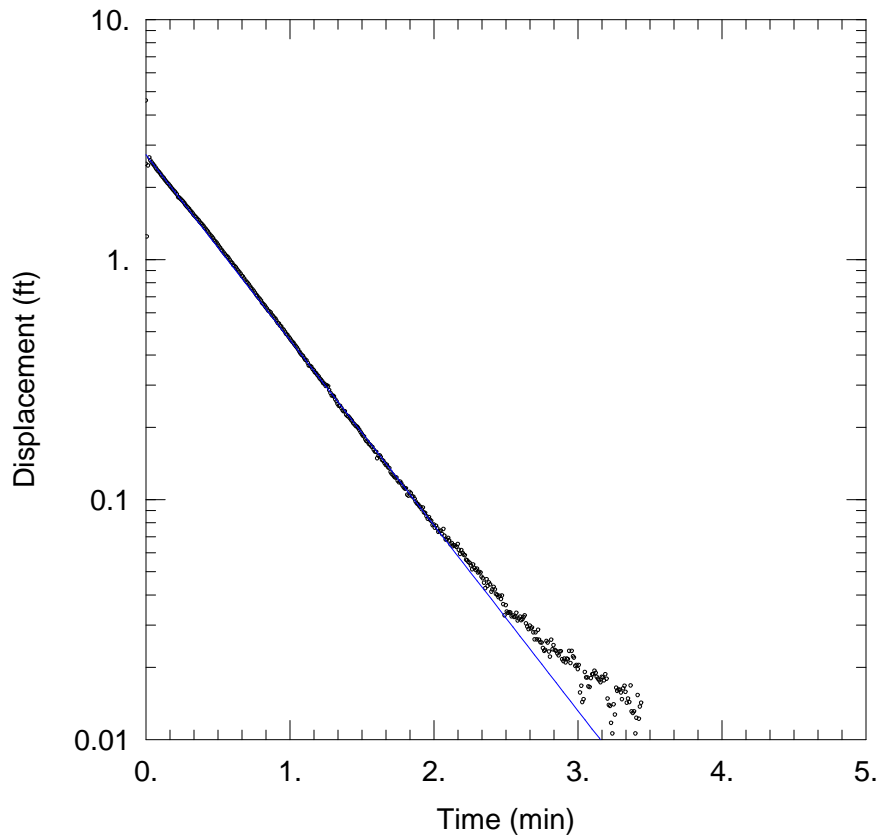
Saturated Thickness: 6.43 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (24-35)

Initial Displacement: 2.5 ft
 Total Well Penetration Depth: 6.43 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 22.49 ft
 Screen Length: 3.43 ft
 Well Radius: 0.3438 ft



24-35 RISING HEAD TEST 2

Data Set: N:\...\24-35-RH2.aqt
 Date: 05/03/13 Time: 11:50:28

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 24-35
 Test Date: February 25, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.00275 cm/sec
 y0 = 2.73 ft

AQUIFER DATA

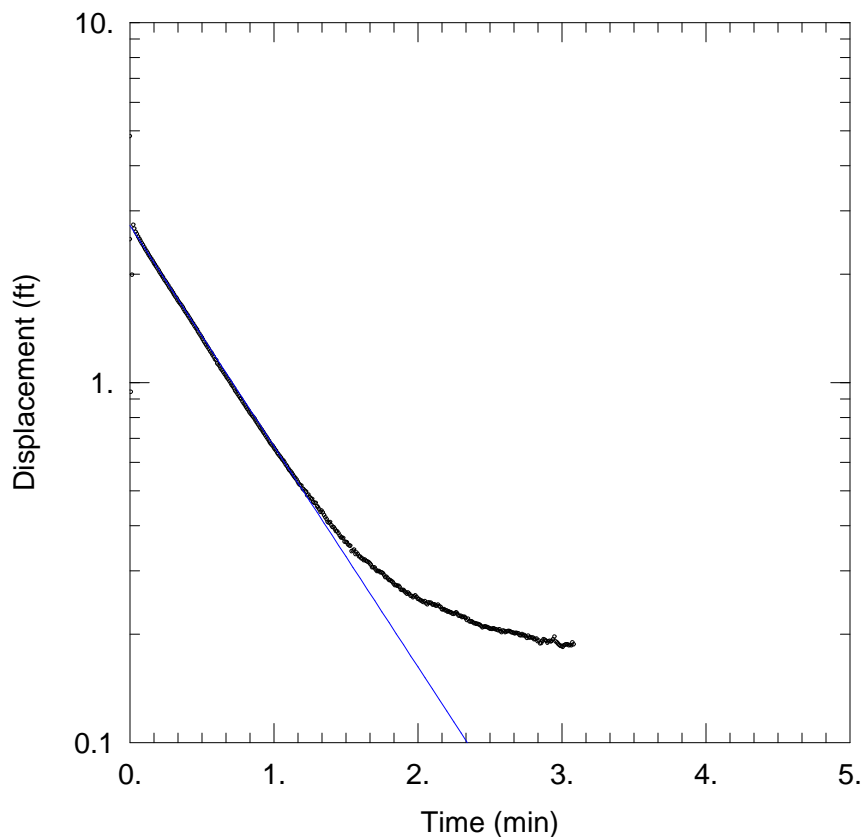
Saturated Thickness: 6.43 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (24-35)

Initial Displacement: 2.5 ft
 Total Well Penetration Depth: 6.43 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 22.49 ft
 Screen Length: 3.43 ft
 Well Radius: 0.3438 ft



24-35 RISING HEAD TEST 3

Data Set: N:\...\24-35-RH3.aqt
 Date: 05/13/13 Time: 14:06:09

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 24-35
 Test Date: February 25, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.002185$ cm/sec
 $y_0 = 2.73$ ft

AQUIFER DATA

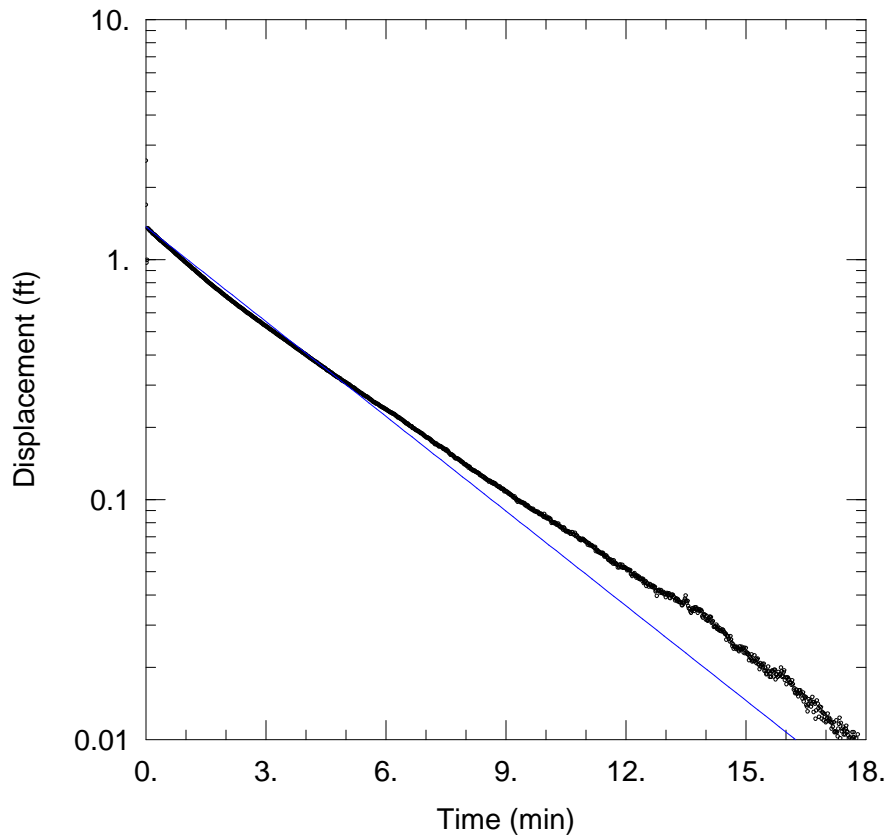
Saturated Thickness: 6.43 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (24-35)

Initial Displacement: 2.5 ft
 Total Well Penetration Depth: 6.43 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 22.49 ft
 Screen Length: 3.43 ft
 Well Radius: 0.3438 ft



24-50 FALLING HEAD TEST 1

Data Set: N:\...\24-50-FH1.aqt
 Date: 05/03/13 Time: 13:11:51

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 24-50
 Test Date: February 19, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0004163$ cm/sec
 $y_0 = 1.368$ ft

AQUIFER DATA

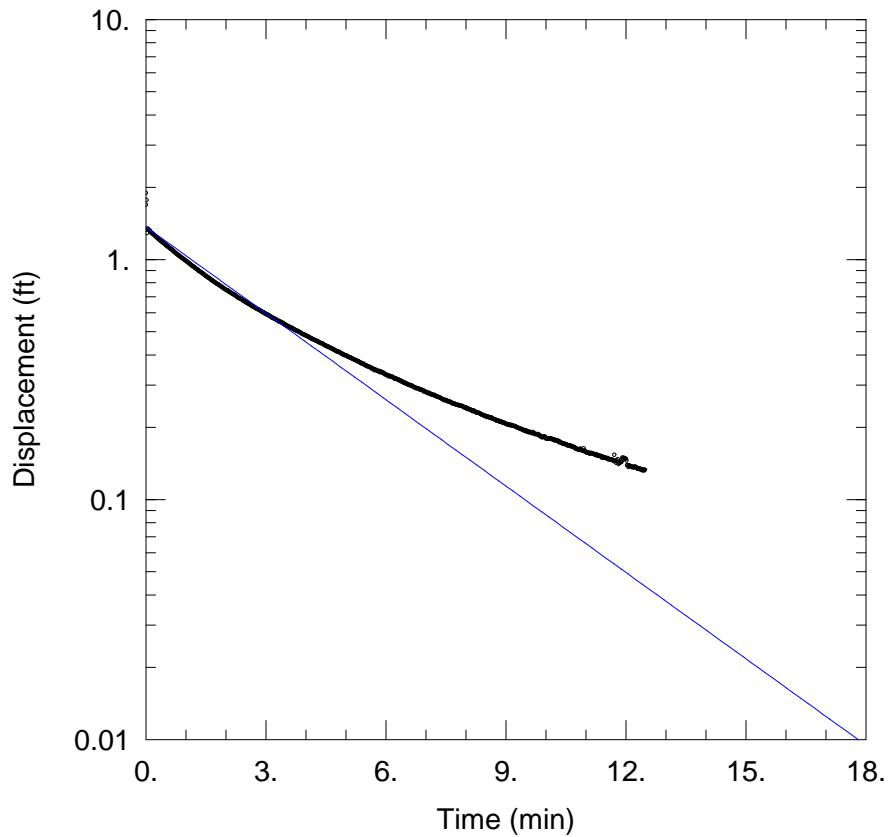
Saturated Thickness: 5.23 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (24-50)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 5.23 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 37.99 ft
 Screen Length: 3.73 ft
 Well Radius: 0.3438 ft



24-50 FALLING HEAD TEST 2

Data Set: N:\...\24-50-FH2.aqt

Date: 05/03/13

Time: 13:11:37

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 24-50

Test Date: February 19, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0003796 cm/sec

y0 = 1.368 ft

AQUIFER DATA

Saturated Thickness: 5.23 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (24-50)

Initial Displacement: 1.688 ft

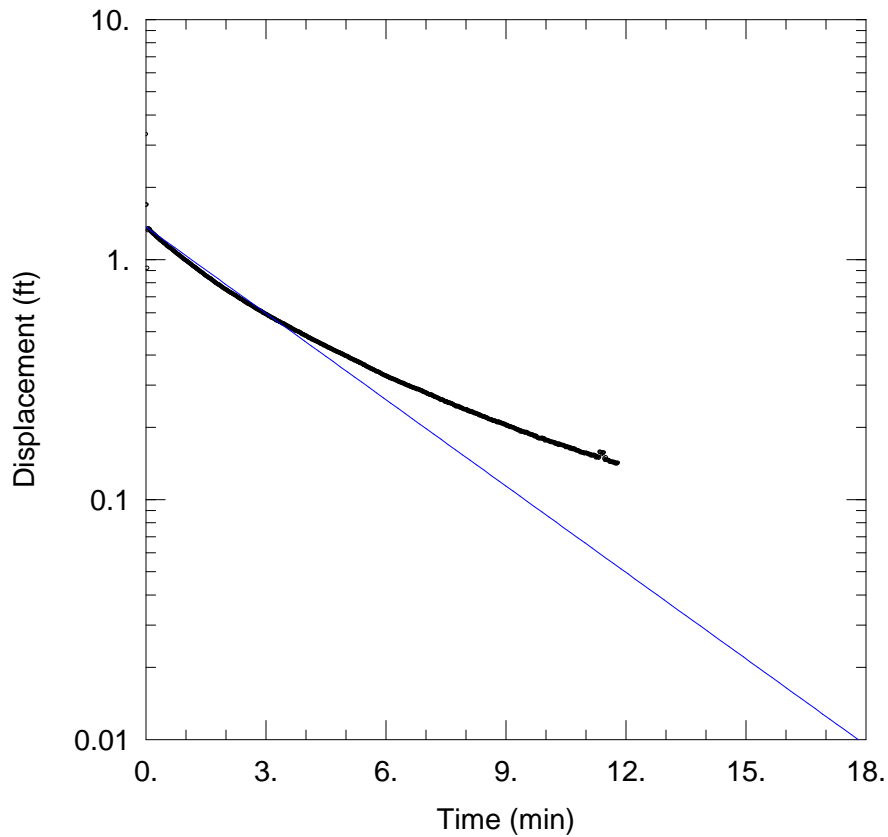
Total Well Penetration Depth: 5.23 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 37.99 ft

Screen Length: 3.73 ft

Well Radius: 0.3438 ft



24-50 FALLING HEAD TEST 3

Data Set: N:\...\24-50-FH3.aqt
 Date: 05/03/13 Time: 13:11:21

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 24-50
 Test Date: February 19, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0003796$ cm/sec
 $y_0 = 1.368$ ft

AQUIFER DATA

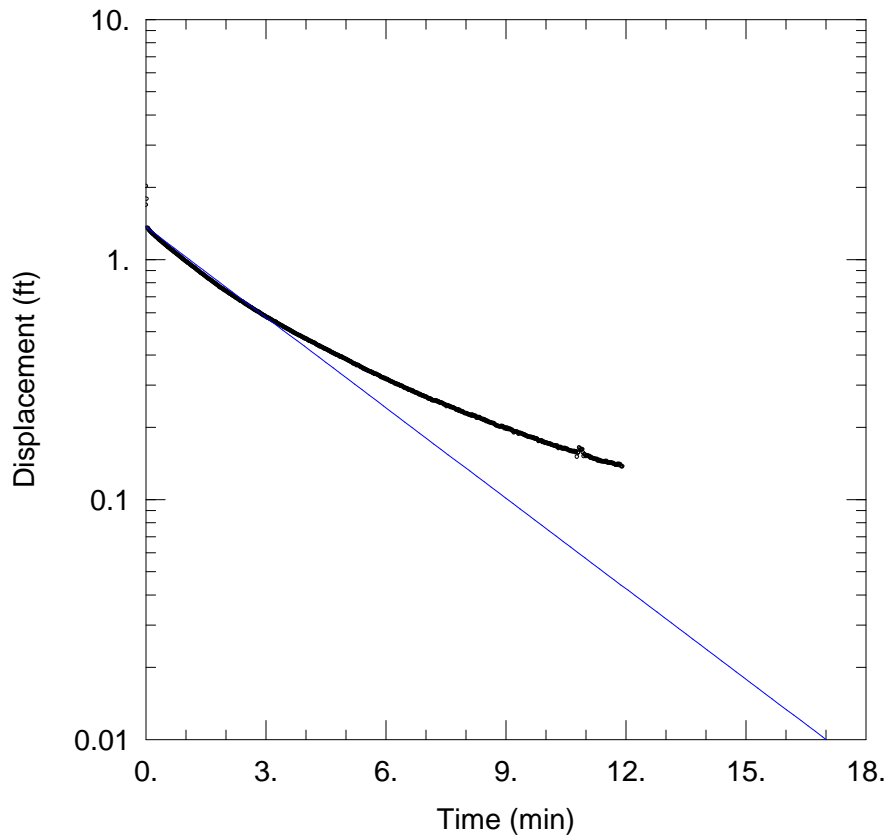
Saturated Thickness: 5.23 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (24-50)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 5.23 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 37.99 ft
 Screen Length: 3.73 ft
 Well Radius: 0.3438 ft



24-50 FALLING HEAD TEST 4

Data Set: N:\...\24-50-FH4.aqt
 Date: 05/03/13 Time: 13:11:08

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 24-50
 Test Date: February 19, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0003975$ cm/sec
 $y_0 = 1.368$ ft

AQUIFER DATA

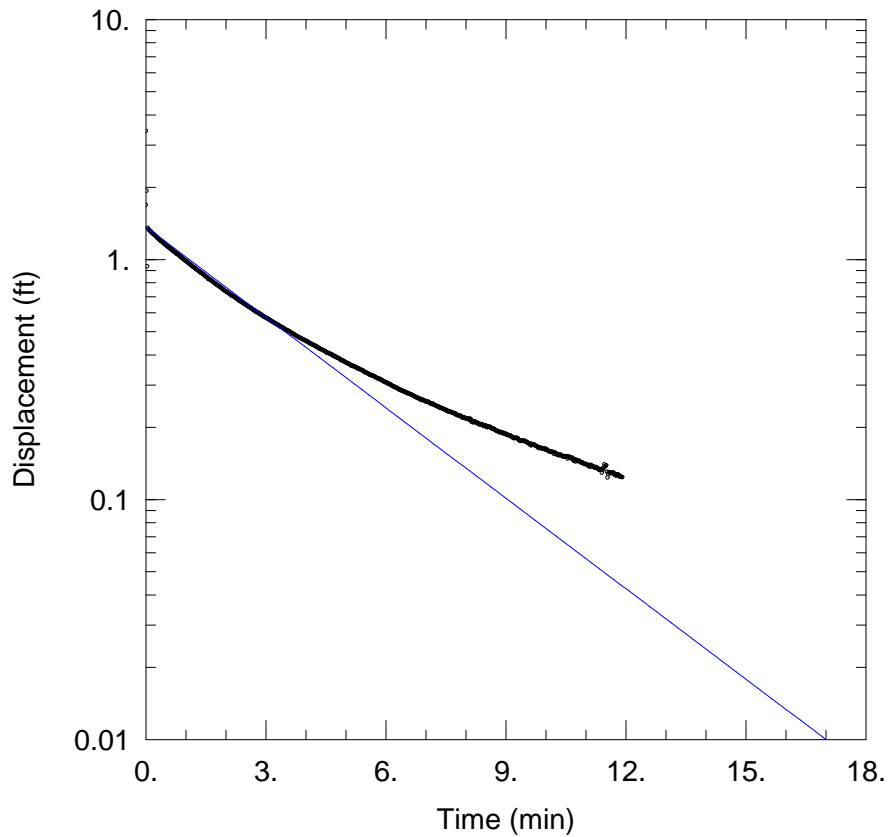
Saturated Thickness: 5.23 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (24-50)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 5.23 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 37.99 ft
 Screen Length: 3.73 ft
 Well Radius: 0.3438 ft



24-50 FALLING HEAD TEST 5

Data Set: N:\...\24-50-FH5.aqt

Date: 05/03/13

Time: 13:10:52

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 24-50

Test Date: February 19, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0003975 cm/sec

y0 = 1.368 ft

AQUIFER DATA

Saturated Thickness: 5.23 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (24-50)

Initial Displacement: 1.688 ft

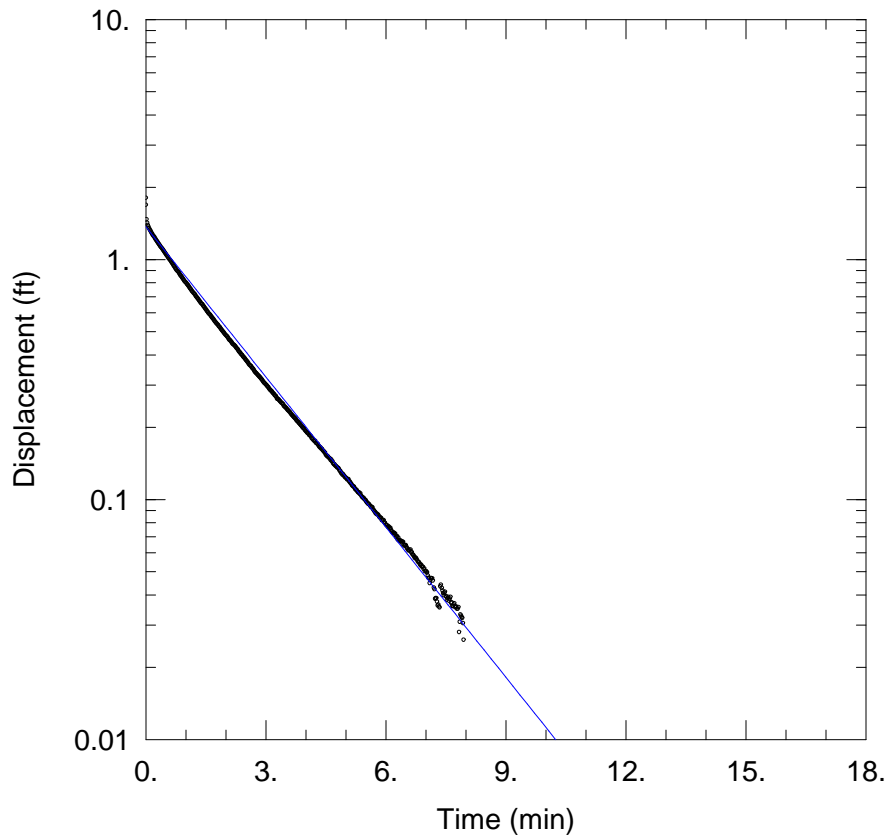
Total Well Penetration Depth: 5.23 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 37.99 ft

Screen Length: 3.73 ft

Well Radius: 0.3438 ft



24-50 RISING HEAD TEST 1

Data Set: N:\...\24-50-RH1.aqt
 Date: 05/03/13 Time: 13:17:14

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 24-50
 Test Date: February 19, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0006597$ cm/sec
 $y_0 = 1.368$ ft

AQUIFER DATA

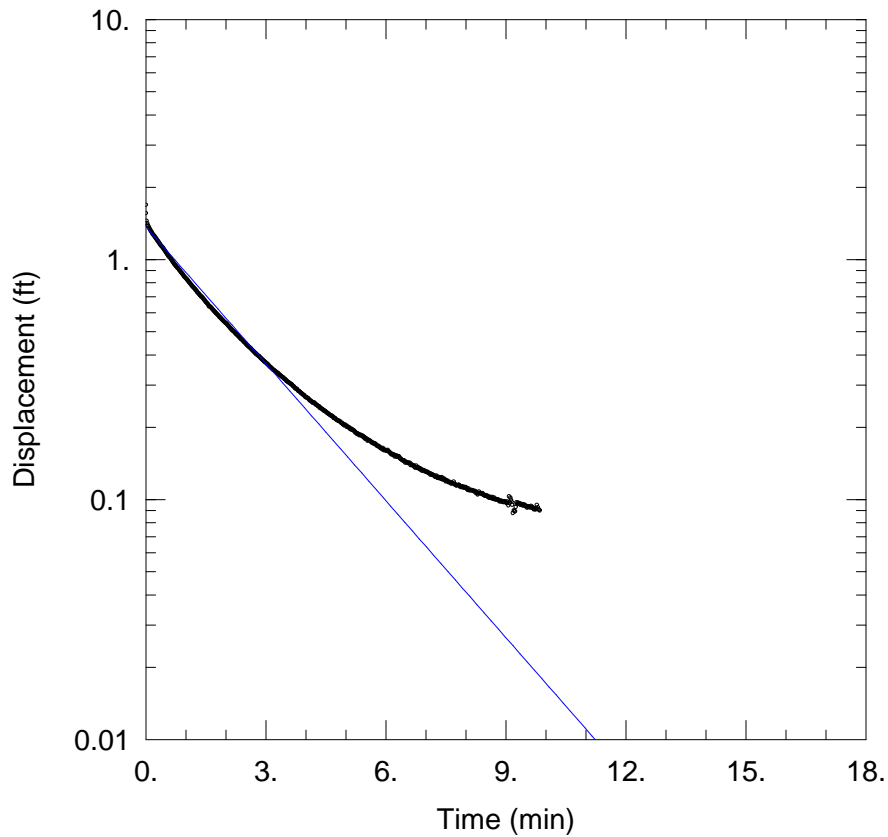
Saturated Thickness: 5.23 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (24-50)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 5.23 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 37.99 ft
 Screen Length: 3.73 ft
 Well Radius: 0.3438 ft



24-50 RISING HEAD TEST 2

Data Set: N:\...\24-50-RH2.aqt
 Date: 05/03/13 Time: 13:17:00

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 24-50
 Test Date: February 19, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0006017$ cm/sec
 $y_0 = 1.368$ ft

AQUIFER DATA

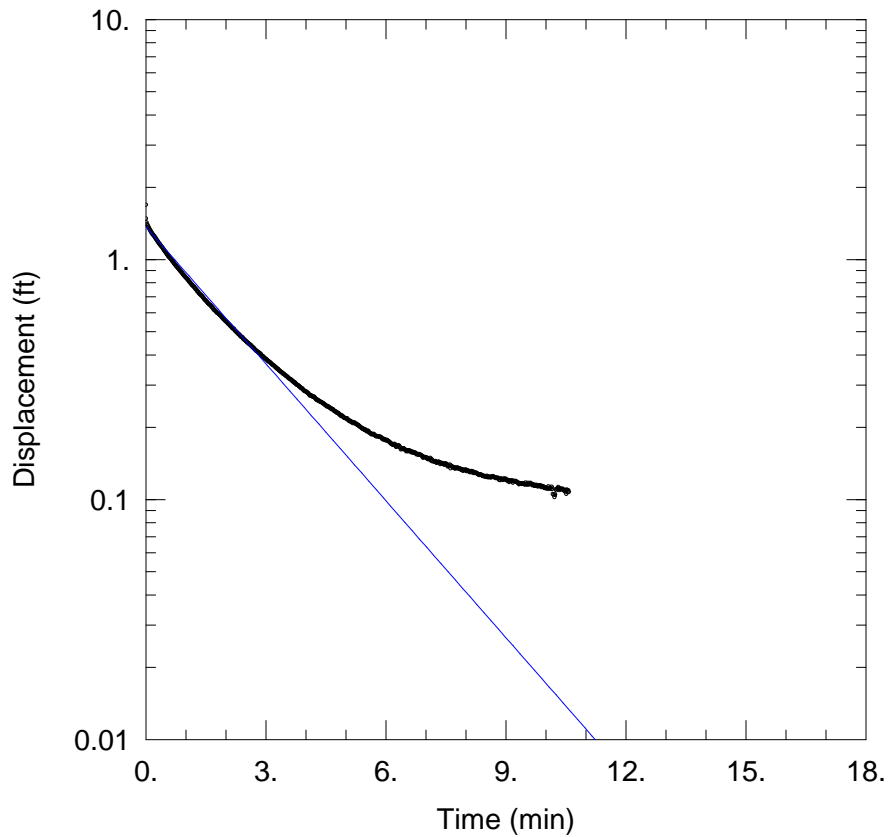
Saturated Thickness: 5.23 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (24-50)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 5.23 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 37.99 ft
 Screen Length: 3.73 ft
 Well Radius: 0.3438 ft



24-50 RISING HEAD TEST 3

Data Set: N:\...\24-50-RH3.aqt
 Date: 05/03/13 Time: 13:16:47

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 24-50
 Test Date: February 19, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0006017$ cm/sec
 $y_0 = 1.368$ ft

AQUIFER DATA

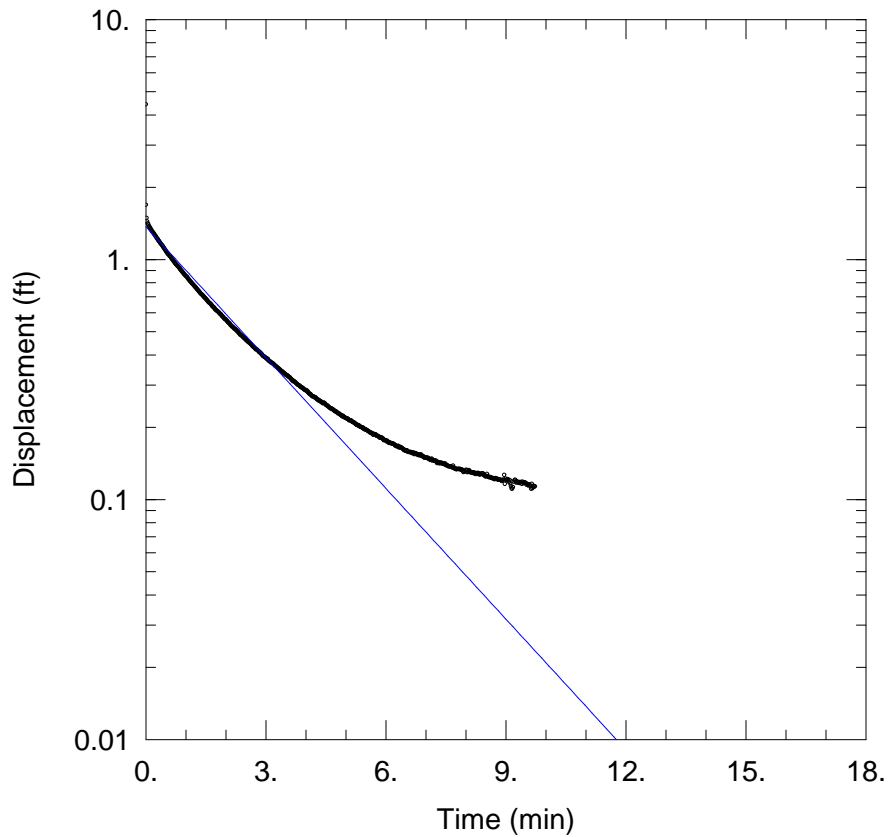
Saturated Thickness: 5.23 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (24-50)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 5.23 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 37.99 ft
 Screen Length: 3.73 ft
 Well Radius: 0.3438 ft



24-50 RISING HEAD TEST 4

Data Set: N:\...\24-50-RH4.aqt
 Date: 05/03/13 Time: 13:16:34

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 24-50
 Test Date: February 19, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0005746$ cm/sec
 $y_0 = 1.368$ ft

AQUIFER DATA

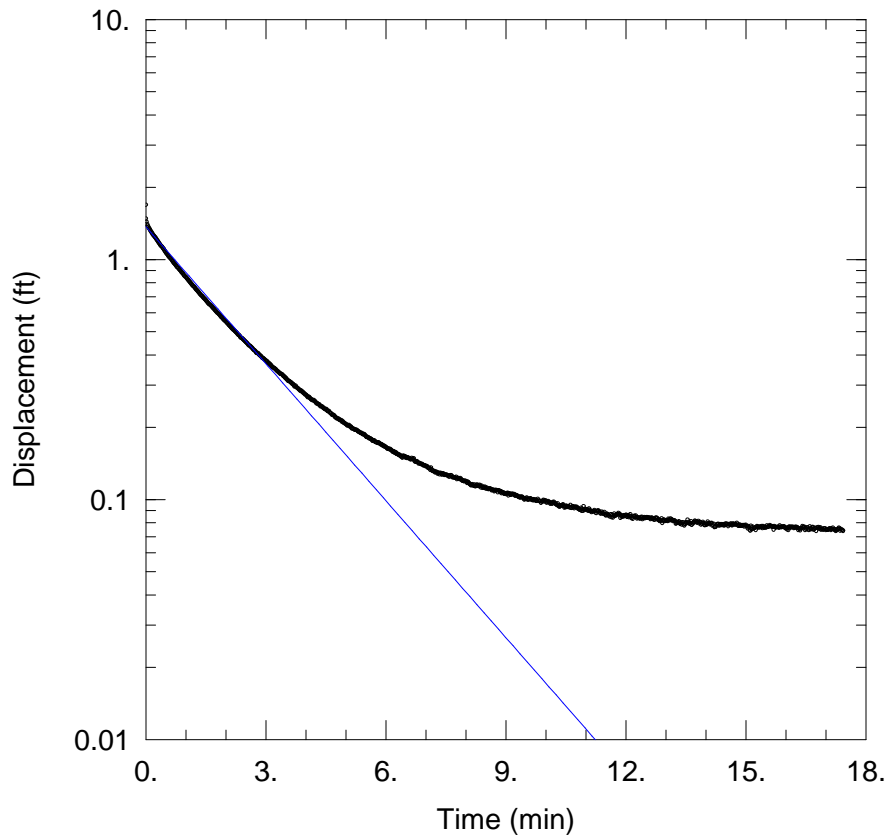
Saturated Thickness: 5.23 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (24-50)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 5.23 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 37.99 ft
 Screen Length: 3.73 ft
 Well Radius: 0.3438 ft



24-50 RISING HEAD TEST 5

Data Set: N:\...\24-50-RH5.aqt
 Date: 05/03/13 Time: 13:16:19

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 24-50
 Test Date: February 19, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0006017$ cm/sec
 $y_0 = 1.368$ ft

AQUIFER DATA

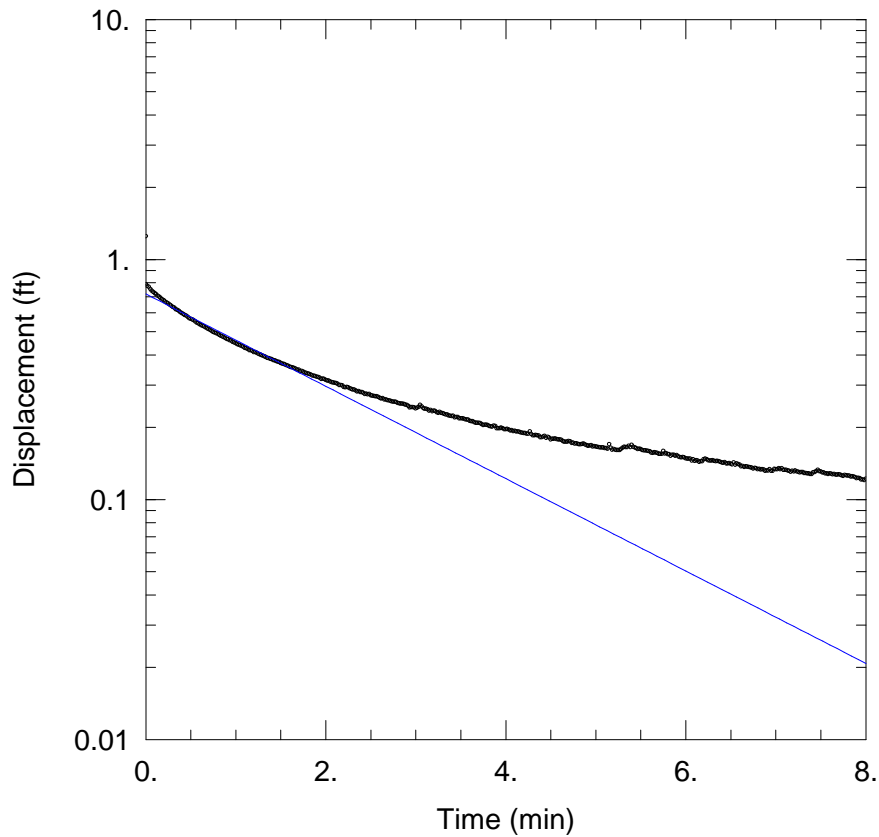
Saturated Thickness: 5.23 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (24-50)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 5.23 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 37.99 ft
 Screen Length: 3.73 ft
 Well Radius: 0.3438 ft



3-25 FALLING HEAD TEST 1

Data Set: N:\...\3-25-FH1.aqt

Date: 04/04/13

Time: 13:32:00

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 3-25

Test Date: Feb. 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0006908 cm/sec

y0 = 0.718 ft

AQUIFER DATA

Saturated Thickness: 4. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (3-25)

Initial Displacement: 1.25 ft

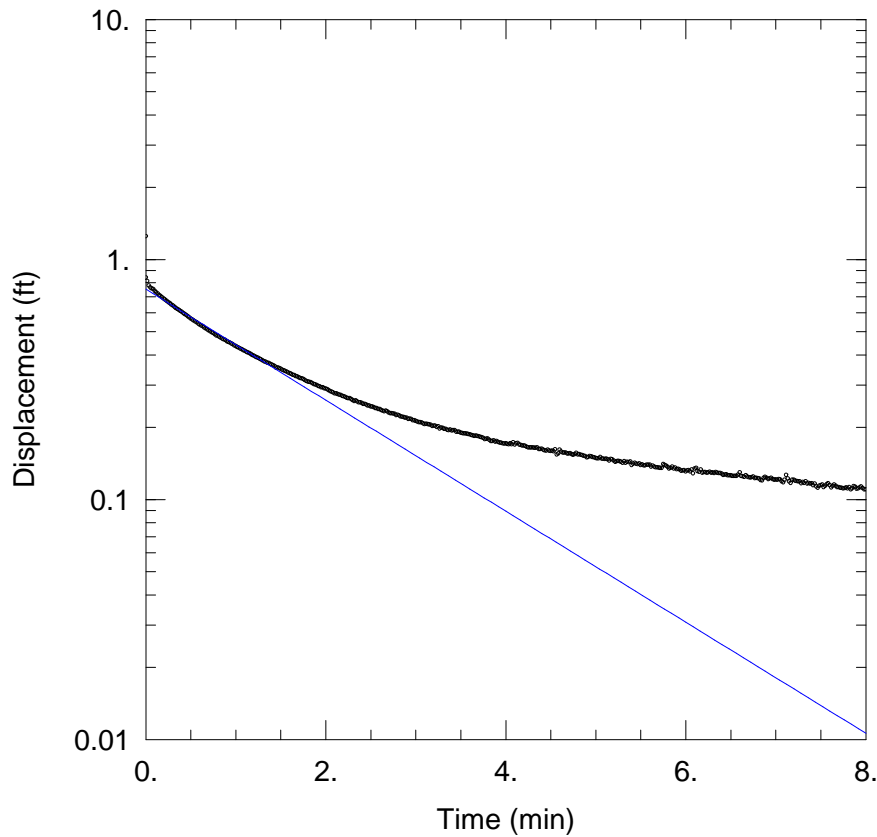
Total Well Penetration Depth: 3.73 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 14.26 ft

Screen Length: 2.73 ft

Well Radius: 0.3438 ft



3-25 FALLING HEAD TEST 2

Data Set: N:\...\3-25-FH2.aqt

Date: 04/04/13

Time: 13:32:19

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 3-25

Test Date: March 4, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0008306 cm/sec

y0 = 0.7518 ft

AQUIFER DATA

Saturated Thickness: 4. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (3-25)

Initial Displacement: 1.25 ft

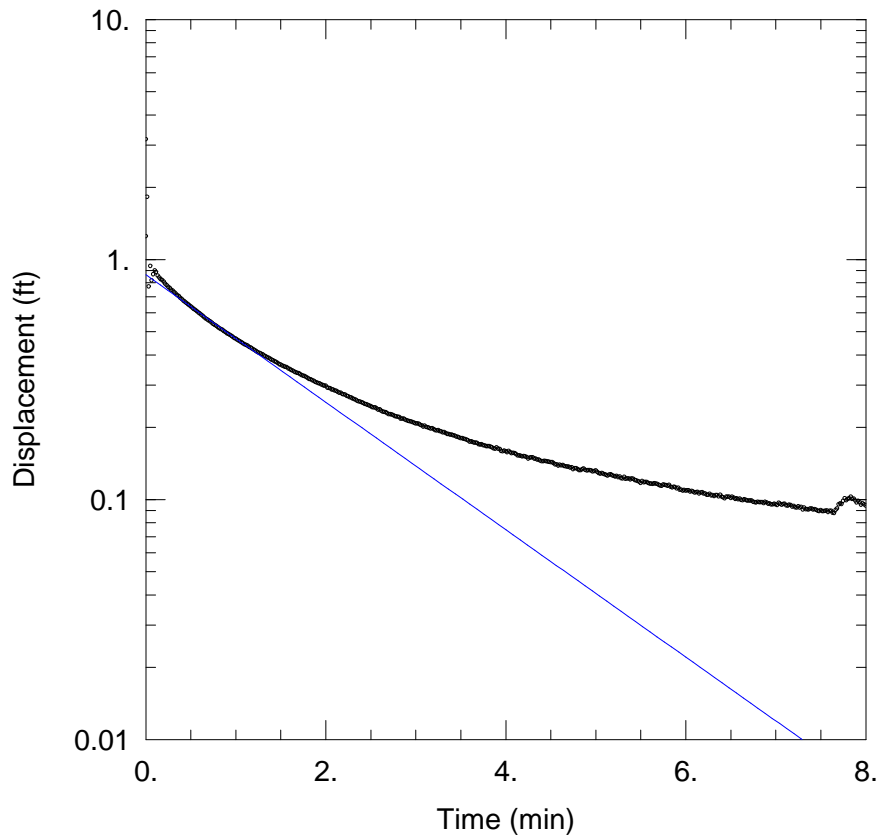
Total Well Penetration Depth: 3.73 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 14.26 ft

Screen Length: 2.73 ft

Well Radius: 0.3438 ft



3-25 FALLING HEAD TEST 3

Data Set: N:\...\3-25-FH3.aqt

Date: 04/04/13

Time: 13:31:31

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 3-25

Test Date: March 4, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0009536 cm/sec

y0 = 0.8632 ft

AQUIFER DATA

Saturated Thickness: 4. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (3-25)

Initial Displacement: 1.25 ft

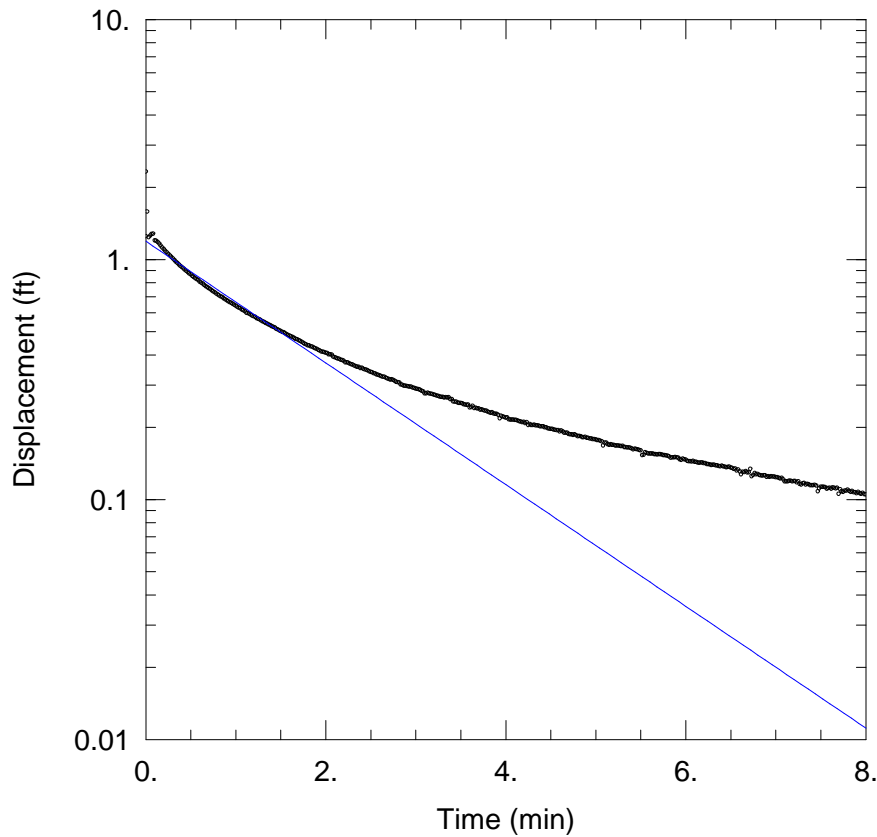
Total Well Penetration Depth: 3.73 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 14.26 ft

Screen Length: 2.73 ft

Well Radius: 0.3438 ft



3-25 RISING HEAD TEST 1

Data Set: N:\...\3-25-RH1.aqt

Date: 04/04/13

Time: 13:31:09

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 3-25

Test Date: March 4, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0009107 cm/sec

y0 = 1.192 ft

AQUIFER DATA

Saturated Thickness: 4. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (3-25)

Initial Displacement: 1.25 ft

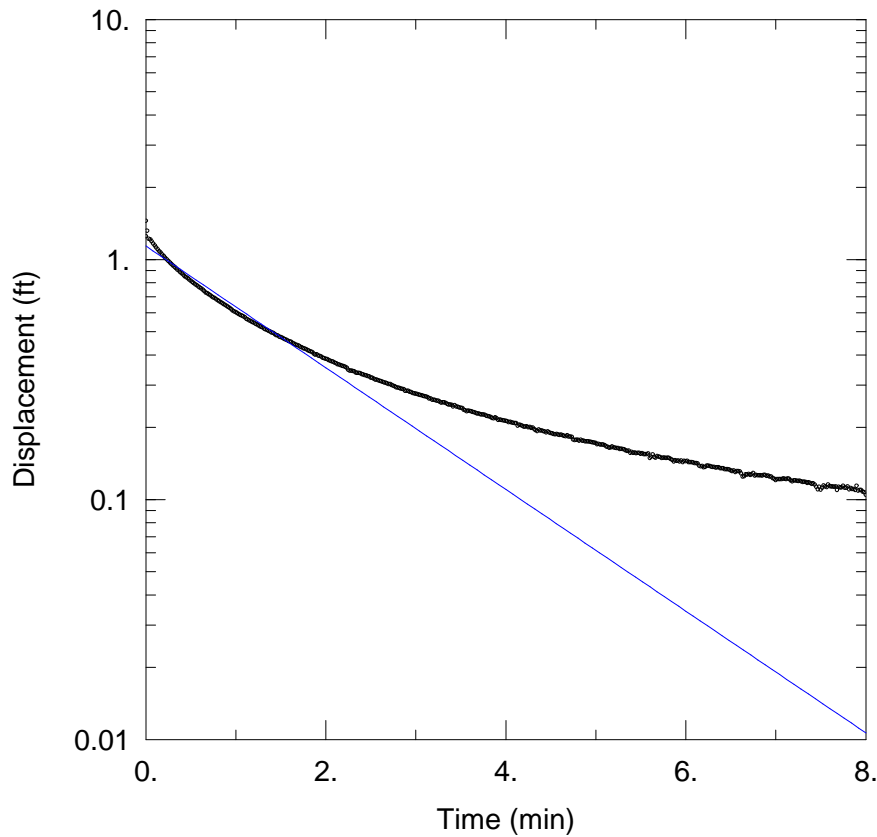
Total Well Penetration Depth: 3.73 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 14.26 ft

Screen Length: 2.73 ft

Well Radius: 0.3438 ft



3-25 RISING HEAD TEST 2

Data Set: N:\...\3-25-RH2.aqt

Date: 04/04/13

Time: 13:30:42

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 3-25

Test Date: March 4, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0009107 cm/sec

y0 = 1.138 ft

AQUIFER DATA

Saturated Thickness: 4. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (3-25)

Initial Displacement: 1.25 ft

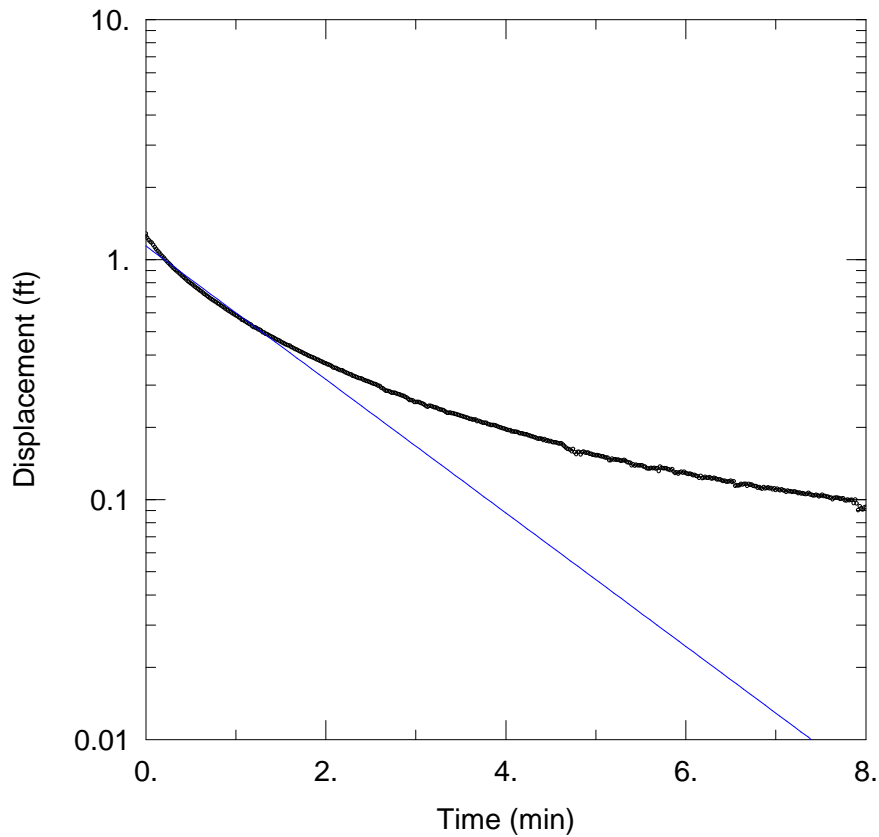
Total Well Penetration Depth: 3.73 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 14.26 ft

Screen Length: 2.73 ft

Well Radius: 0.3438 ft



3-25 RISING HEAD TEST 3

Data Set: N:\...\3-25-RH3.aqt

Date: 04/04/13

Time: 13:25:15

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 3-25

Test Date: March 4, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0009986 cm/sec

y0 = 1.138 ft

AQUIFER DATA

Saturated Thickness: 4. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (3-25)

Initial Displacement: 1.25 ft

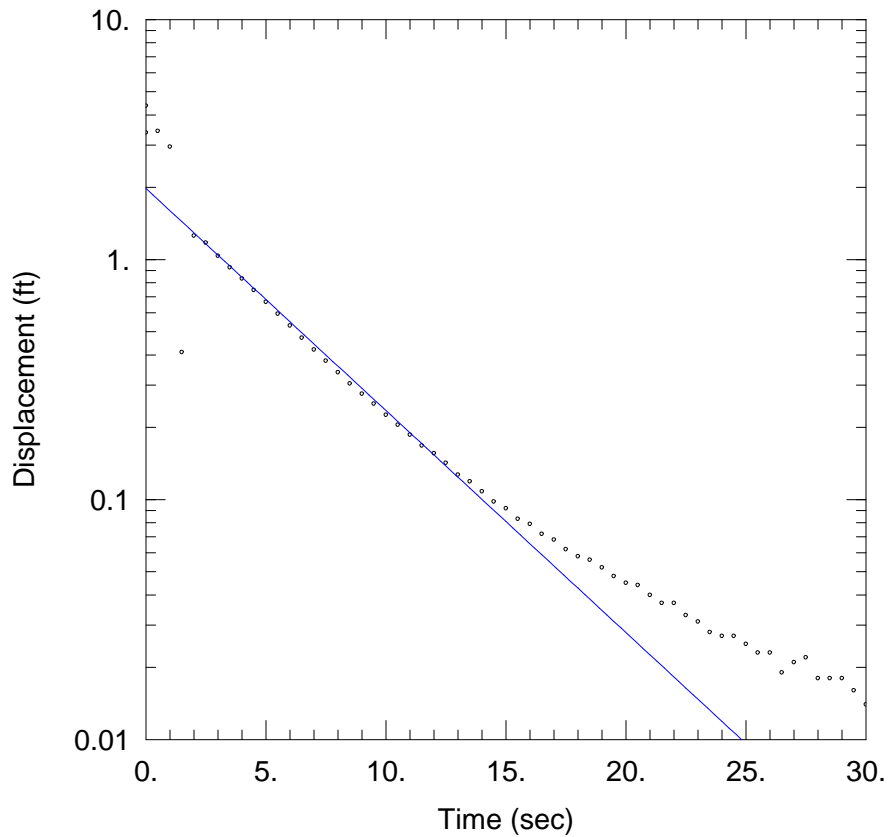
Total Well Penetration Depth: 3.73 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 14.26 ft

Screen Length: 2.73 ft

Well Radius: 0.3438 ft



34-25R FALLING HEAD TEST 1

Data Set: N:\...\34-25R-FH1.aqt
 Date: 05/03/13 Time: 13:42:56

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 34-25R
 Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.01576 cm/sec
 y0 = 1.978 ft

AQUIFER DATA

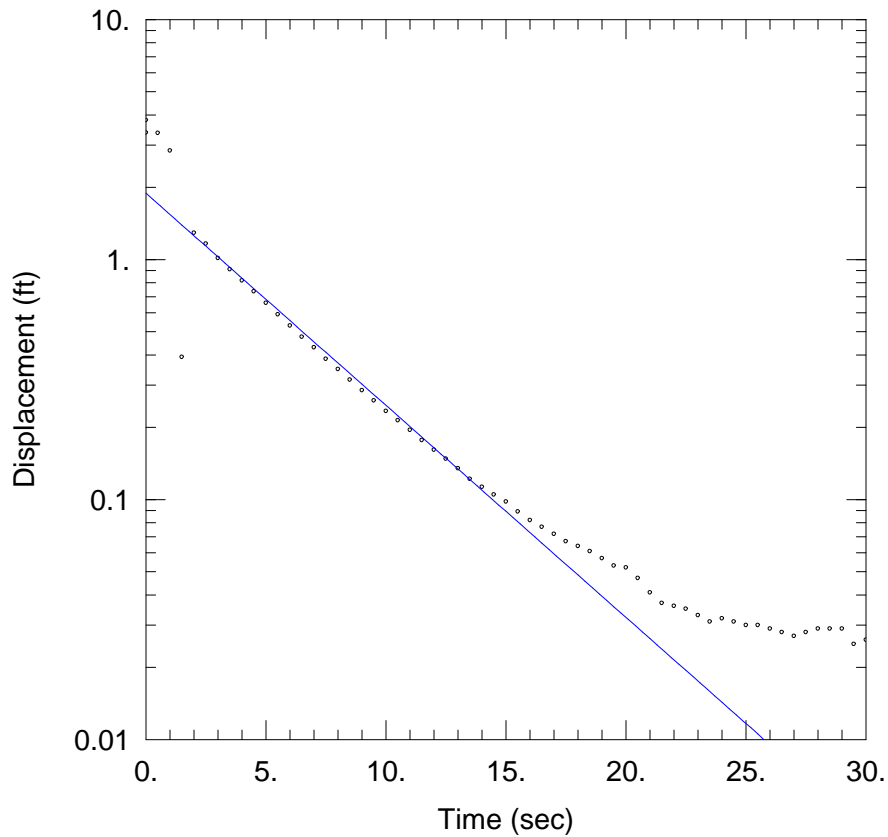
Saturated Thickness: 8. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (34-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 14. ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



34-25R FALLING HEAD TEST 2

Data Set: N:\...\34-25R-FH2.aqt
 Date: 05/03/13 Time: 13:42:43

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 34-25R
 Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.01505 cm/sec
 y0 = 1.889 ft

AQUIFER DATA

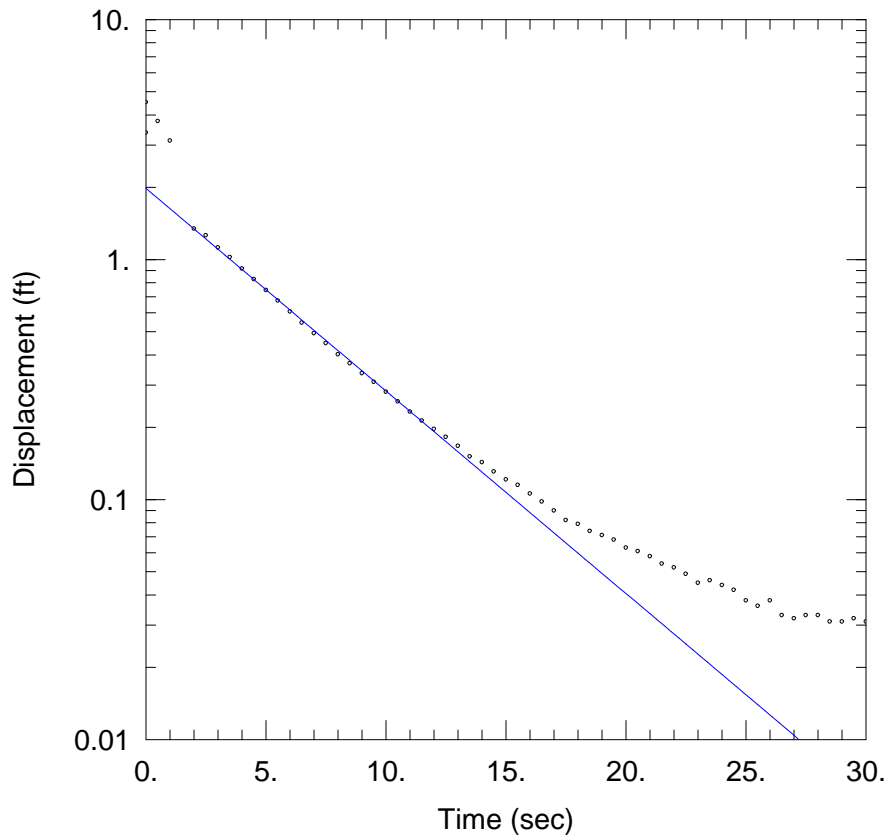
Saturated Thickness: 8. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (34-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 14. ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



34-25R FALLING HEAD TEST 3

Data Set: N:\...\34-25R-FH3.aqt
 Date: 05/03/13 Time: 13:42:13

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 34-25R
 Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.01437 cm/sec
 y0 = 1.978 ft

AQUIFER DATA

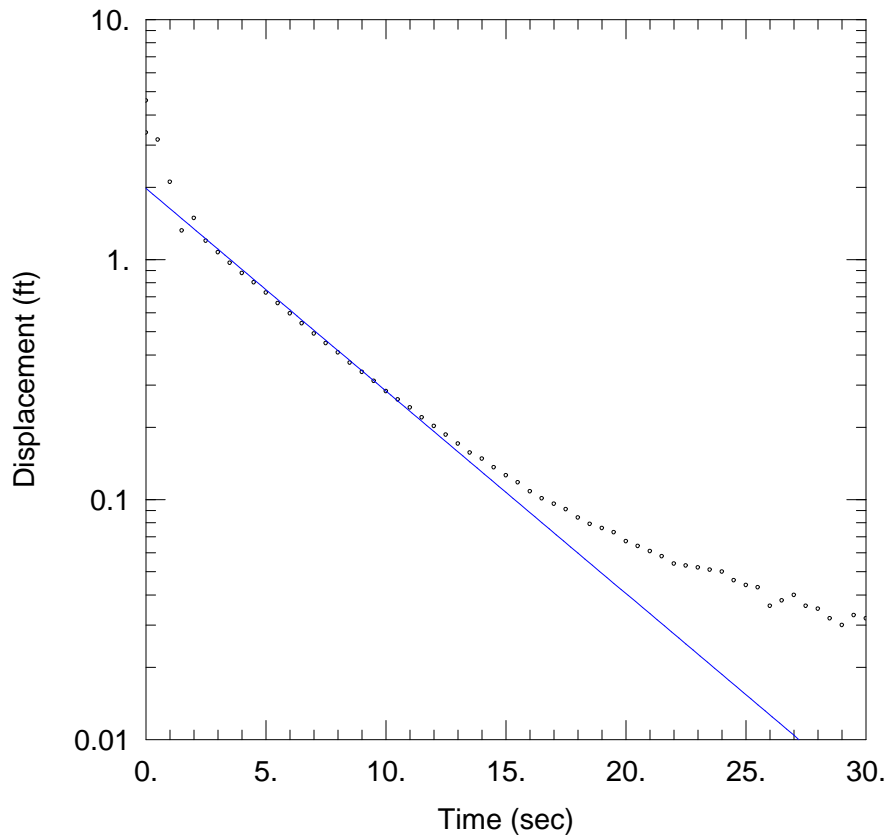
Saturated Thickness: 8. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (34-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 14. ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



34-25R FALLING HEAD TEST 4

Data Set: N:\...\34-25R-FH4.aqt
 Date: 05/03/13 Time: 13:42:25

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 34-25R
 Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.01437 cm/sec
 y0 = 1.978 ft

AQUIFER DATA

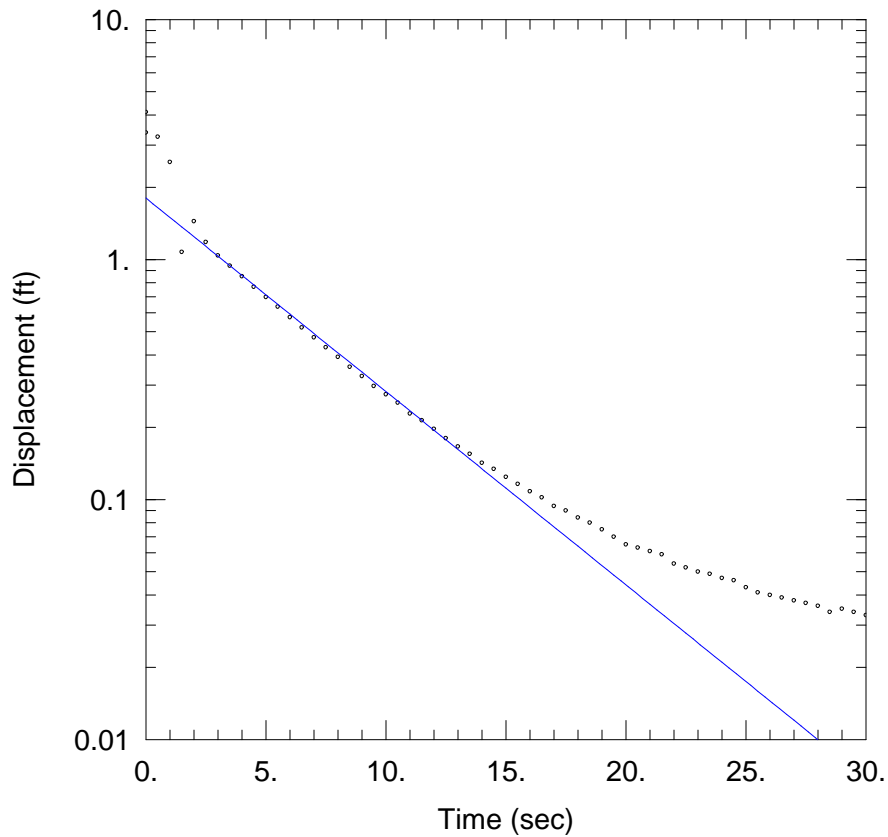
Saturated Thickness: 8. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (34-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 14. ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



34-25R FALLING HEAD TEST 5

Data Set: N:\...\34-25R-FH5.aqt
 Date: 05/03/13 Time: 13:41:59

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 34-25R
 Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.01373$ cm/sec
 $y_0 = 1.804$ ft

AQUIFER DATA

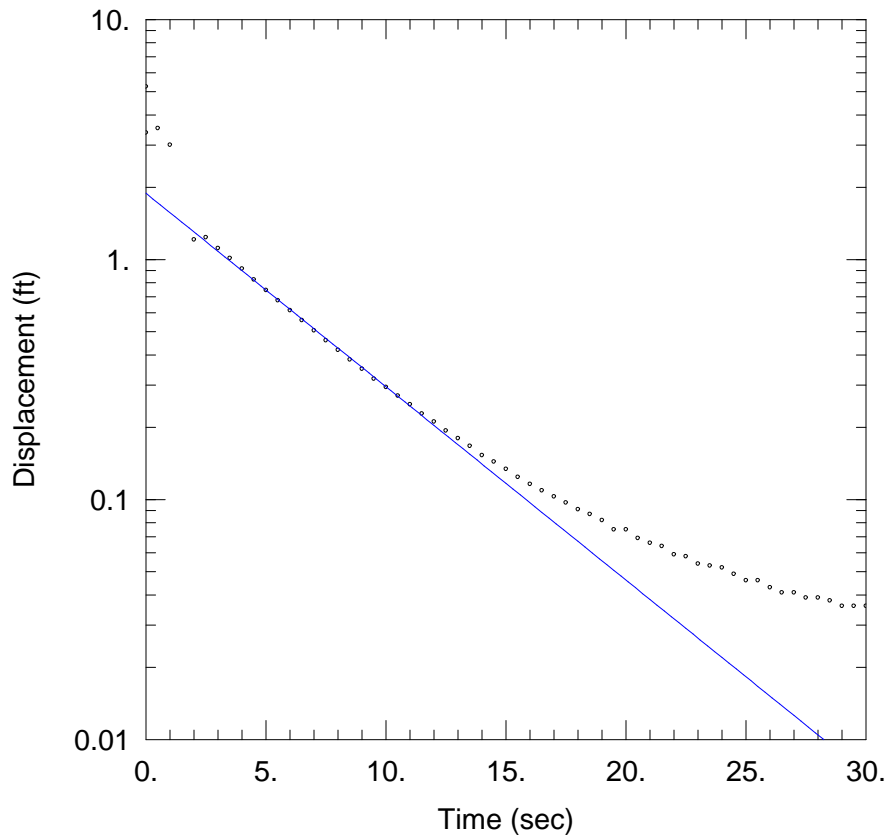
Saturated Thickness: 8. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (34-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 14. ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



34-25R FALLING HEAD TEST 6

Data Set: N:\...\34-25R-FH6.aqt
 Date: 05/03/13 Time: 13:41:43

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 34-25R
 Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.01373 cm/sec
 y0 = 1.889 ft

AQUIFER DATA

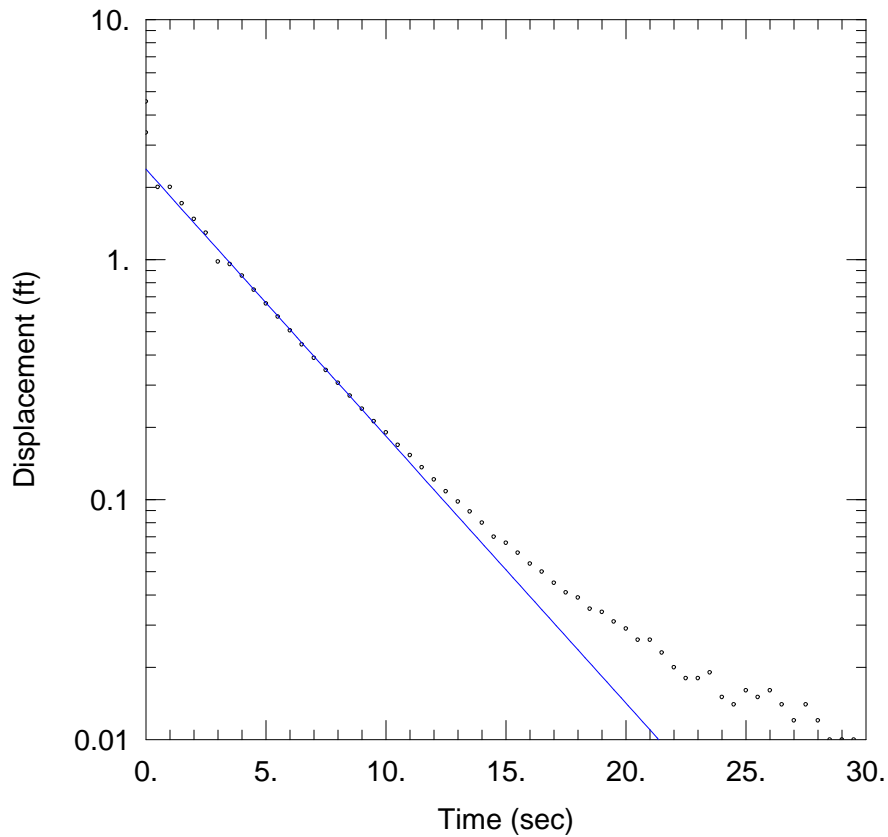
Saturated Thickness: 8. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (34-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 14. ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



34-25R RISING HEAD TEST 1

Data Set: N:\...\34-25R-RH1.aqt
 Date: 05/03/13 Time: 13:47:12

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 34-25R
 Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.01895 cm/sec
 y0 = 2.378 ft

AQUIFER DATA

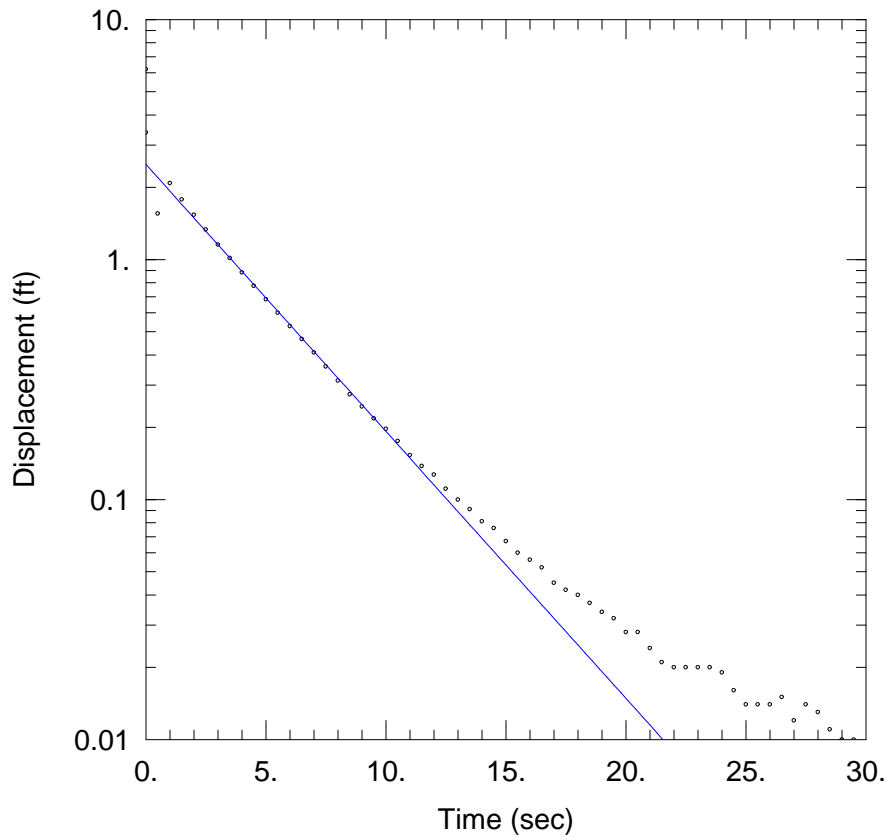
Saturated Thickness: 8. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (34-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 14. ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



34-25R RISING HEAD TEST 2

Data Set: N:\...\34-25R-RH2.aqt
 Date: 05/03/13 Time: 13:46:58

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 34-25R
 Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.01895 cm/sec
 y0 = 2.49 ft

AQUIFER DATA

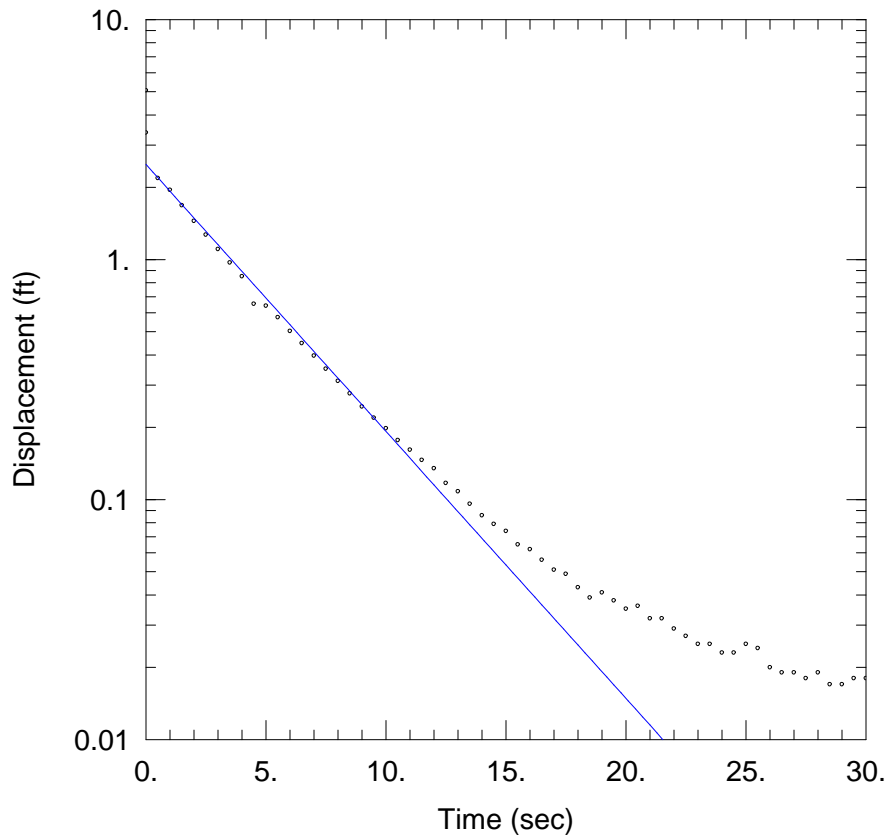
Saturated Thickness: 8. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (34-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 14. ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



34-25R RISING HEAD TEST 3

Data Set: N:\...\34-25R-RH3.aqt
 Date: 05/03/13 Time: 13:46:46

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 34-25R
 Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.01895$ cm/sec
 $y_0 = 2.49$ ft

AQUIFER DATA

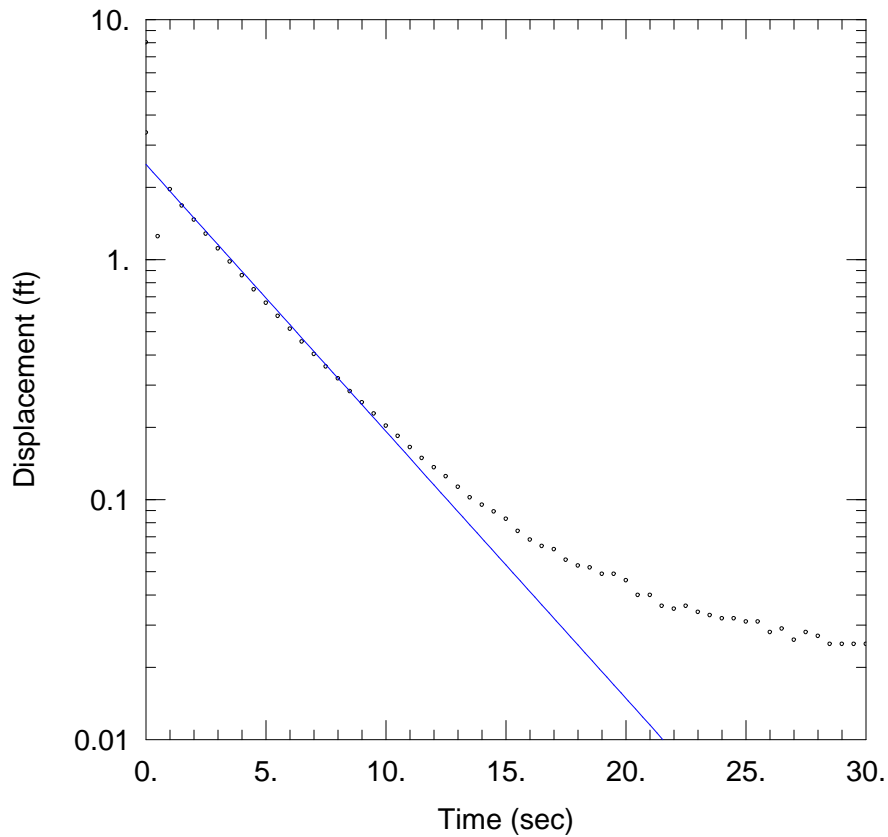
Saturated Thickness: 8. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (34-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 14. ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



34-25R RISING HEAD TEST 4

Data Set: N:\...\34-25R-RH4.aqt
 Date: 05/03/13 Time: 13:46:33

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 34-25R
 Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.01895$ cm/sec
 $y_0 = 2.49$ ft

AQUIFER DATA

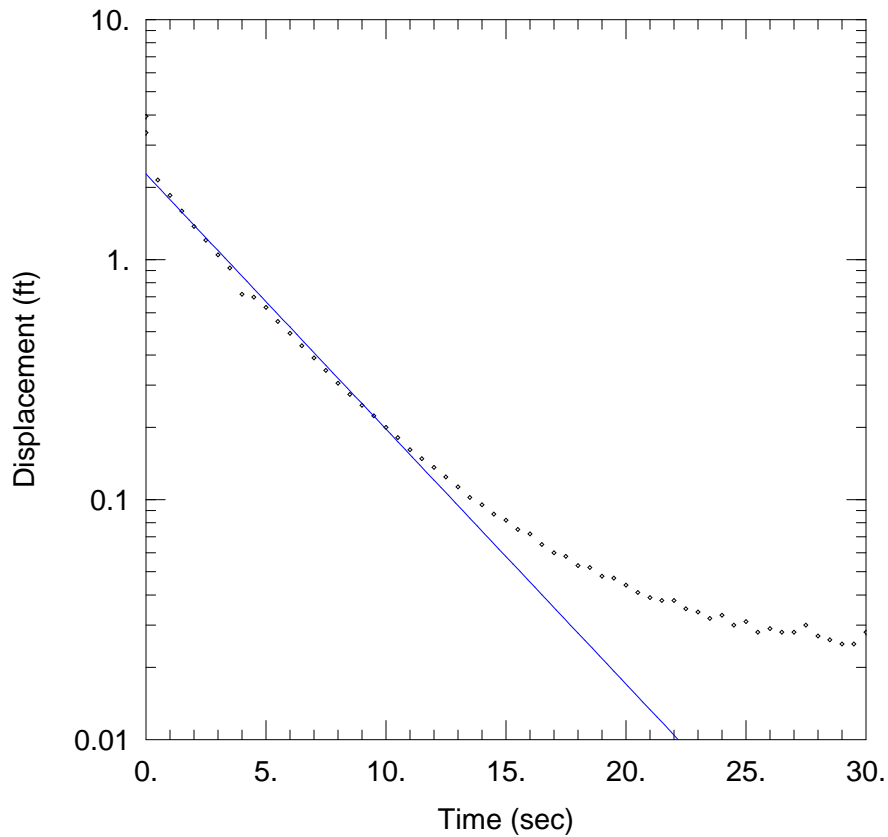
Saturated Thickness: 8. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (34-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 14. ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



34-25R RISING HEAD TEST 5

Data Set: N:\...\34-25R-RH5.aqt
 Date: 05/03/13 Time: 13:46:21

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 34-25R
 Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.01809 cm/sec
 y0 = 2.271 ft

AQUIFER DATA

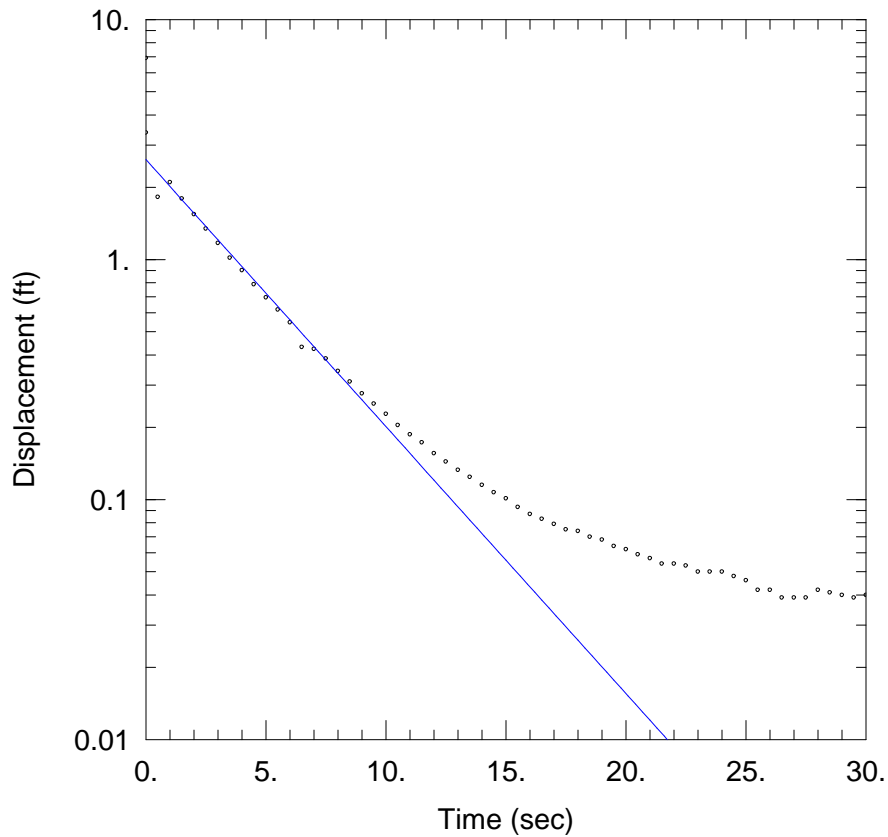
Saturated Thickness: 8. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (34-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 14. ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



34-25R RISING HEAD TEST 6

Data Set: N:\...\34-25R-RH6.aqt
 Date: 05/03/13 Time: 13:46:08

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 34-25R
 Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.01895 cm/sec
 y0 = 2.607 ft

AQUIFER DATA

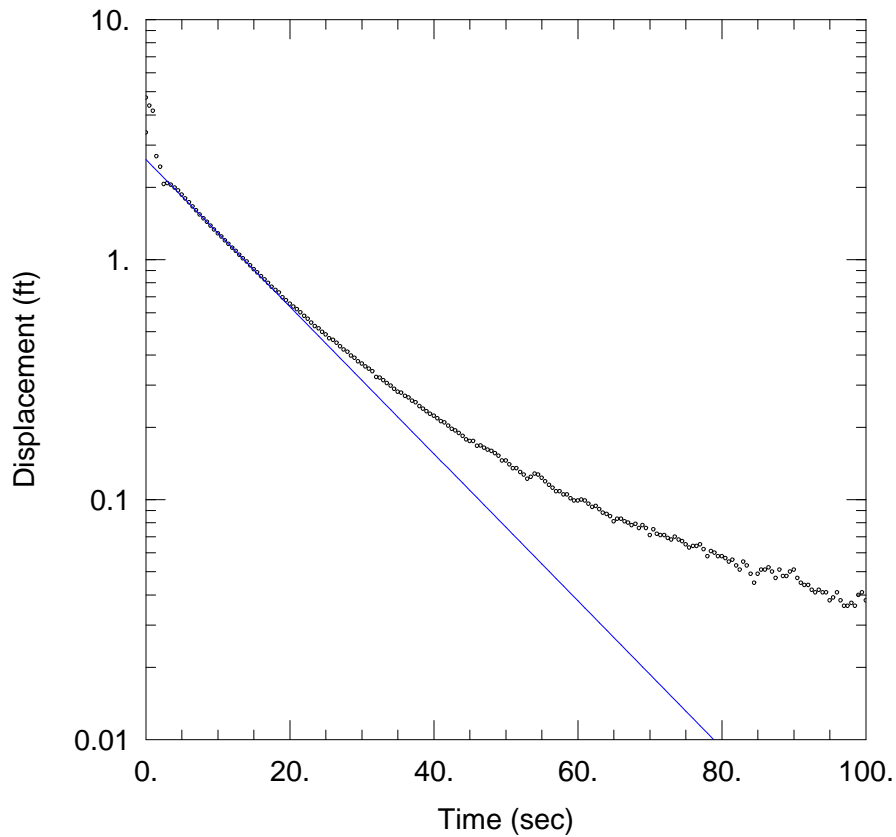
Saturated Thickness: 8. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (34-25R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 14. ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



34-50R FALLING HEAD TEST 1

Data Set: N:\...\34-50R-FH1.aqt
 Date: 05/03/13 Time: 14:04:11

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 34-50R
 Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.005218 cm/sec
 y0 = 2.607 ft

AQUIFER DATA

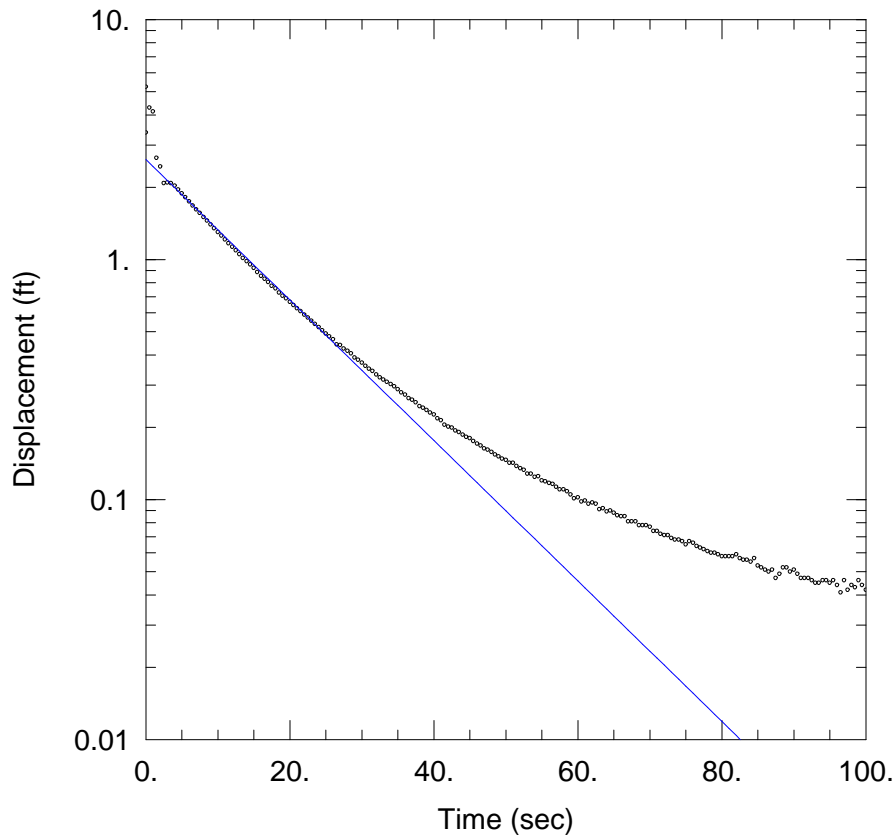
Saturated Thickness: 8. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (34-50R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 37.95 ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



34-50R FALLING HEAD TEST 2

Data Set: N:\...\34-50R-FH2.aqt
 Date: 05/03/13 Time: 14:03:58

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 34-50R
 Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.004983$ cm/sec
 $y_0 = 2.607$ ft

AQUIFER DATA

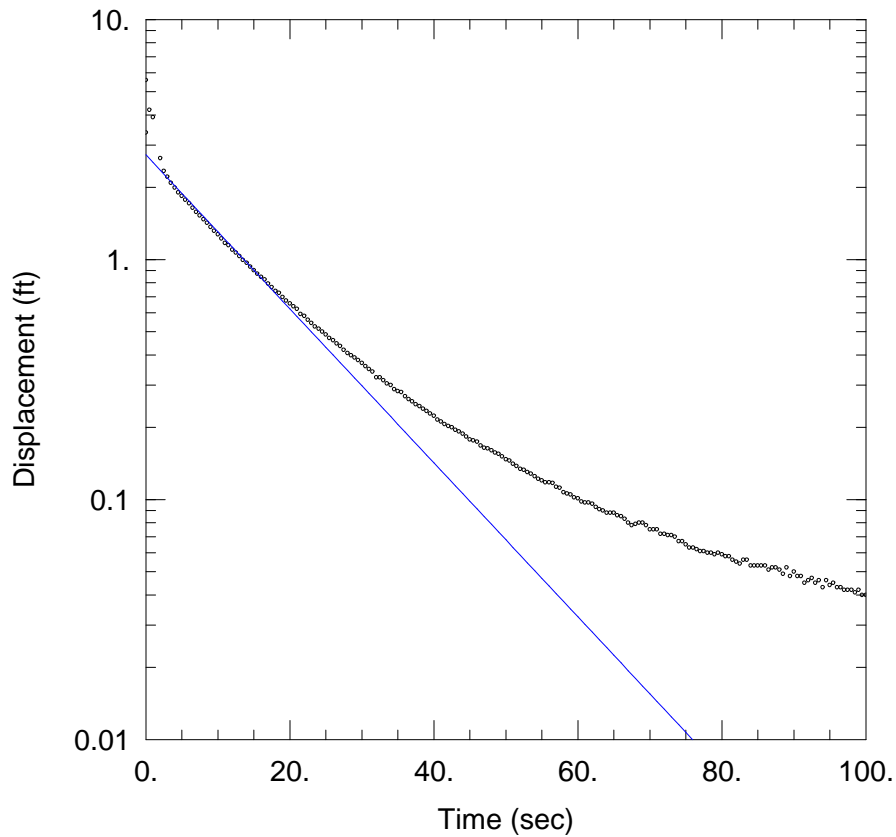
Saturated Thickness: 8. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (34-50R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 37.95 ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



34-50R FALLING HEAD TEST 3

Data Set: N:\...\34-50R-FH3.aqt
 Date: 05/03/13 Time: 14:03:43

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 34-50R
 Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.005464$ cm/sec
 $y_0 = 2.73$ ft

AQUIFER DATA

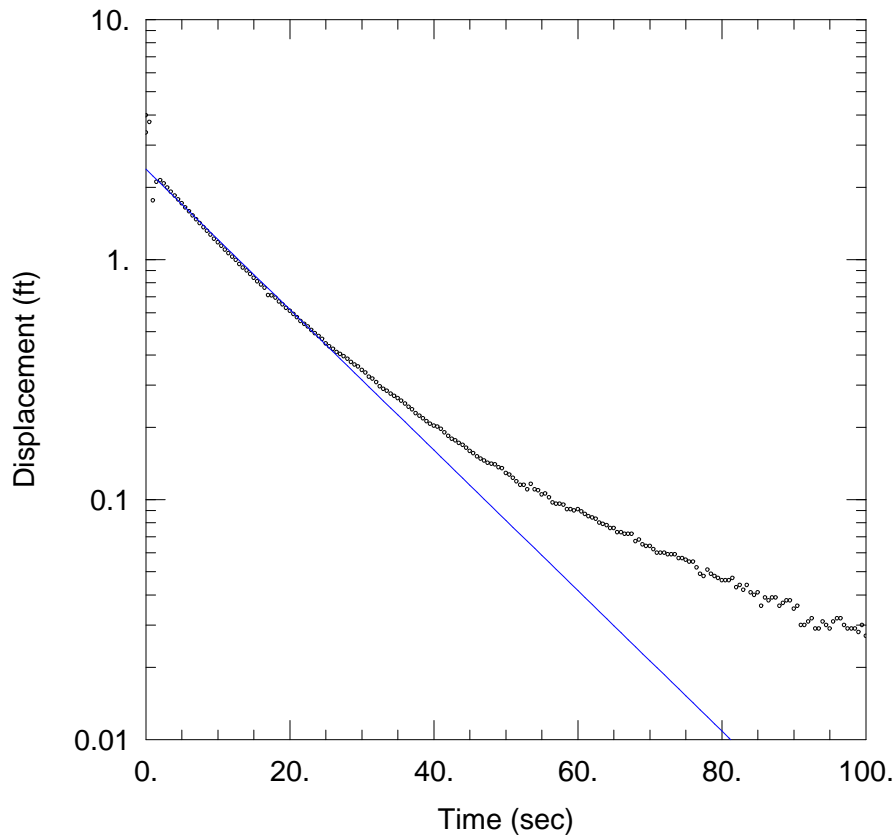
Saturated Thickness: 8. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (34-50R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 37.95 ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



34-50R FALLING HEAD TEST 4

Data Set: N:\...\34-50R-FH4.aqt
 Date: 05/03/13 Time: 14:03:28

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 34-50R
 Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.004983$ cm/sec
 $y_0 = 2.378$ ft

AQUIFER DATA

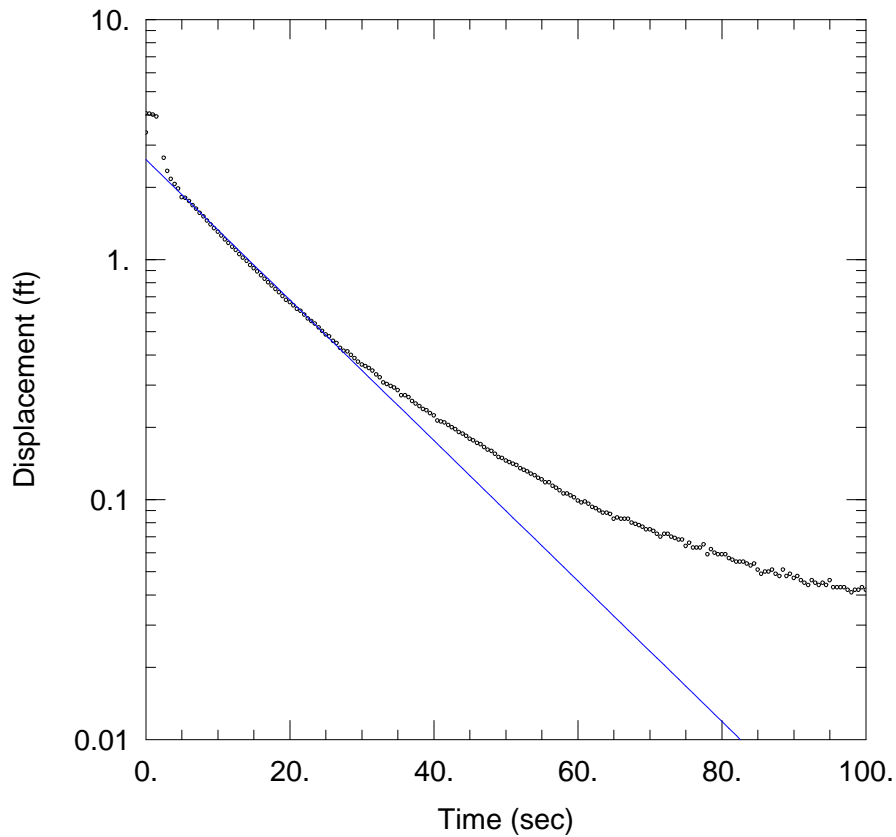
Saturated Thickness: 8. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (34-50R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 37.95 ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



34-50R FALLING HEAD TEST 5

Data Set: N:\...\34-50R-FH5.aqt
 Date: 05/03/13 Time: 14:03:15

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 34-50R
 Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.004983$ cm/sec
 $y_0 = 2.607$ ft

AQUIFER DATA

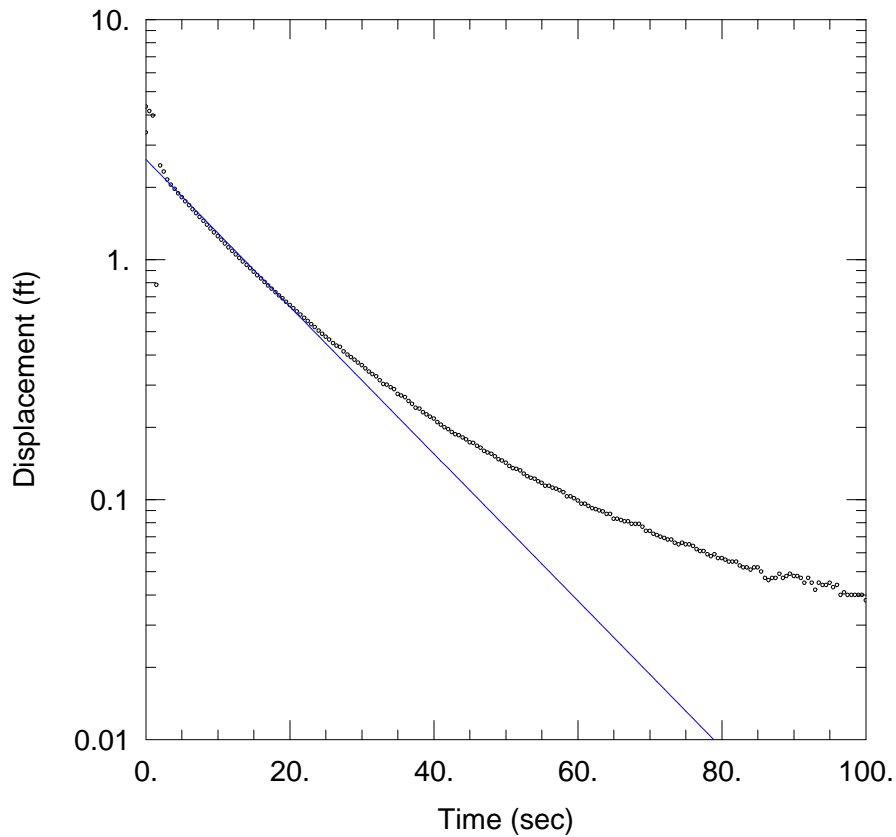
Saturated Thickness: 8. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (34-50R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 37.95 ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



34-50R FALLING HEAD TEST 6

Data Set: N:\...\34-50R-FH6.aqt
 Date: 05/03/13 Time: 14:02:58

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 34-50R
 Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.005218$ cm/sec
 $y_0 = 2.607$ ft

AQUIFER DATA

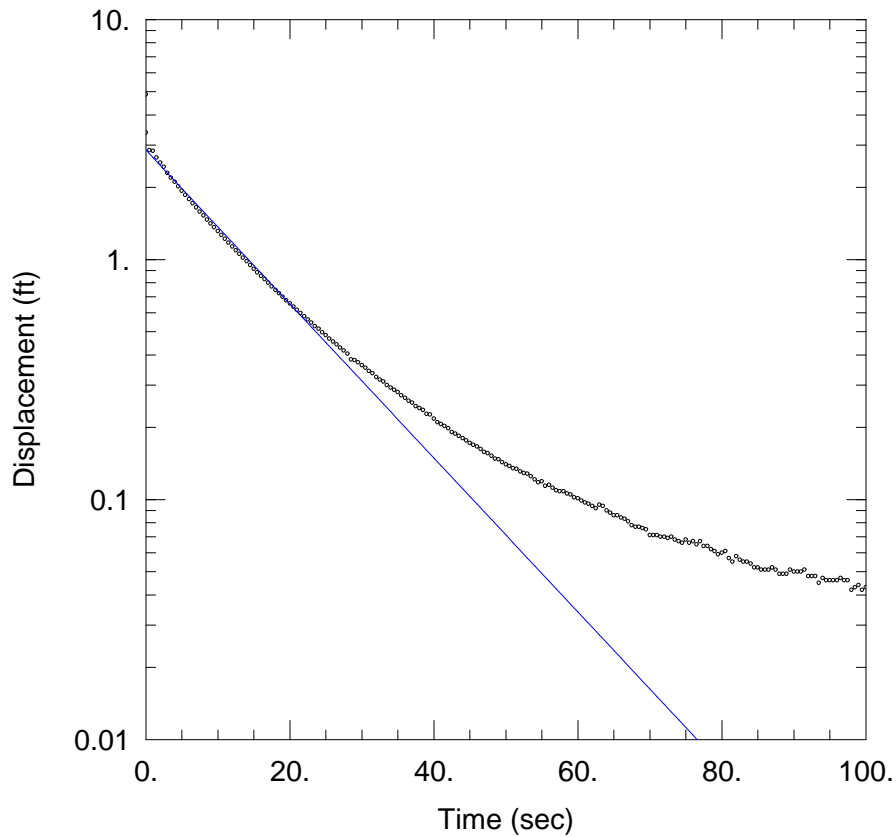
Saturated Thickness: 8. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (34-50R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 37.95 ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



34-50R RISING HEAD TEST 1

Data Set: N:\...\34-50R-RH1.aqt
 Date: 05/03/13 Time: 14:09:52

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 34-50R
 Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.005464$ cm/sec
 $y_0 = 2.858$ ft

AQUIFER DATA

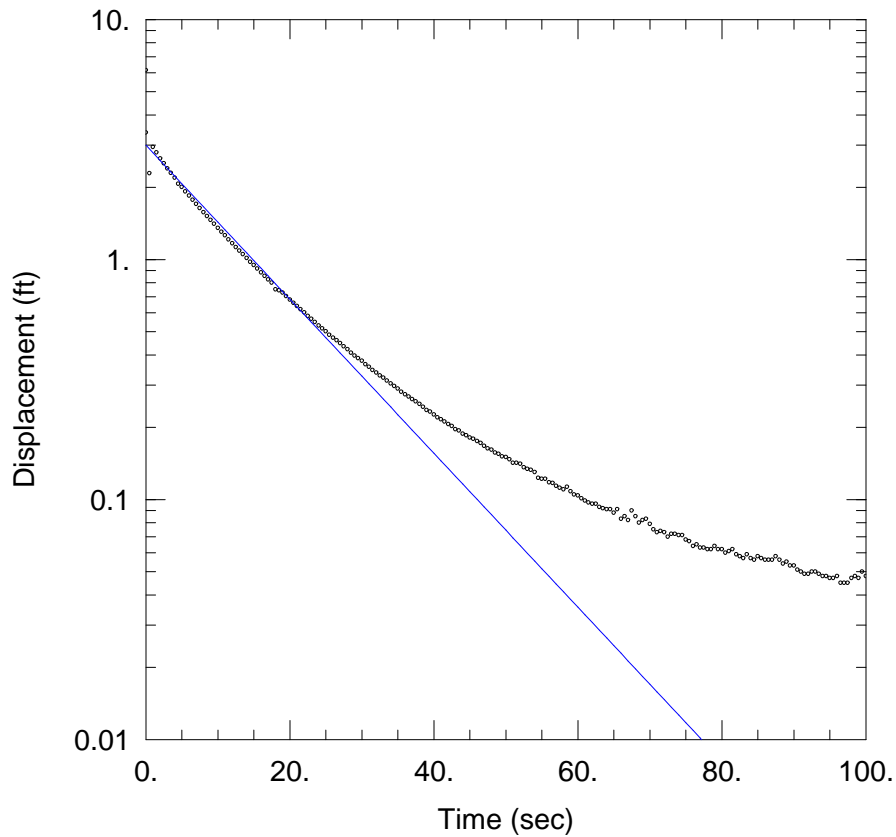
Saturated Thickness: 8. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (34-50R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 37.95 ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



34-50R RISING HEAD TEST 2

Data Set: N:\...\34-50R-RH2.aqt
 Date: 05/03/13 Time: 14:09:38

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 34-50R
 Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.005464$ cm/sec
 $y_0 = 2.993$ ft

AQUIFER DATA

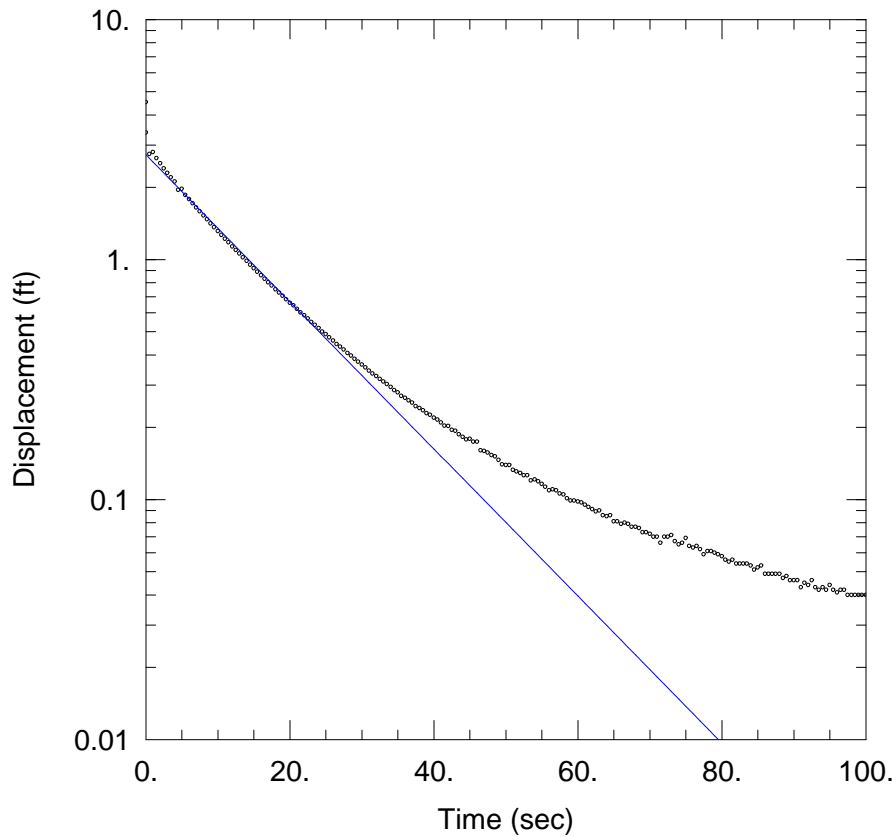
Saturated Thickness: 8. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (34-50R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 37.95 ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



34-50R RISING HEAD TEST 3

Data Set: N:\...\34-50R-RH3.aqt
 Date: 05/03/13 Time: 14:09:25

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 34-50R
 Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.005218 cm/sec
 y0 = 2.73 ft

AQUIFER DATA

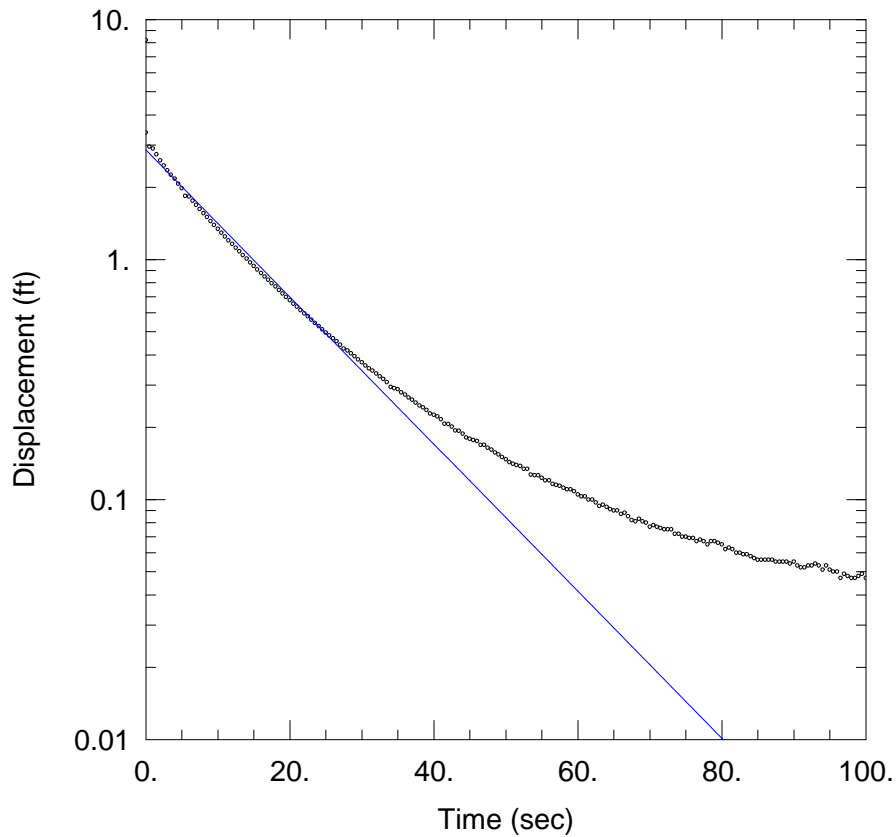
Saturated Thickness: 8. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (34-50R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 37.95 ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



34-50R RISING HEAD TEST 4

Data Set: N:\...\34-50R-RH4.aqt
 Date: 05/03/13 Time: 14:09:11

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 34-50R
 Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.005218$ cm/sec
 $y_0 = 2.858$ ft

AQUIFER DATA

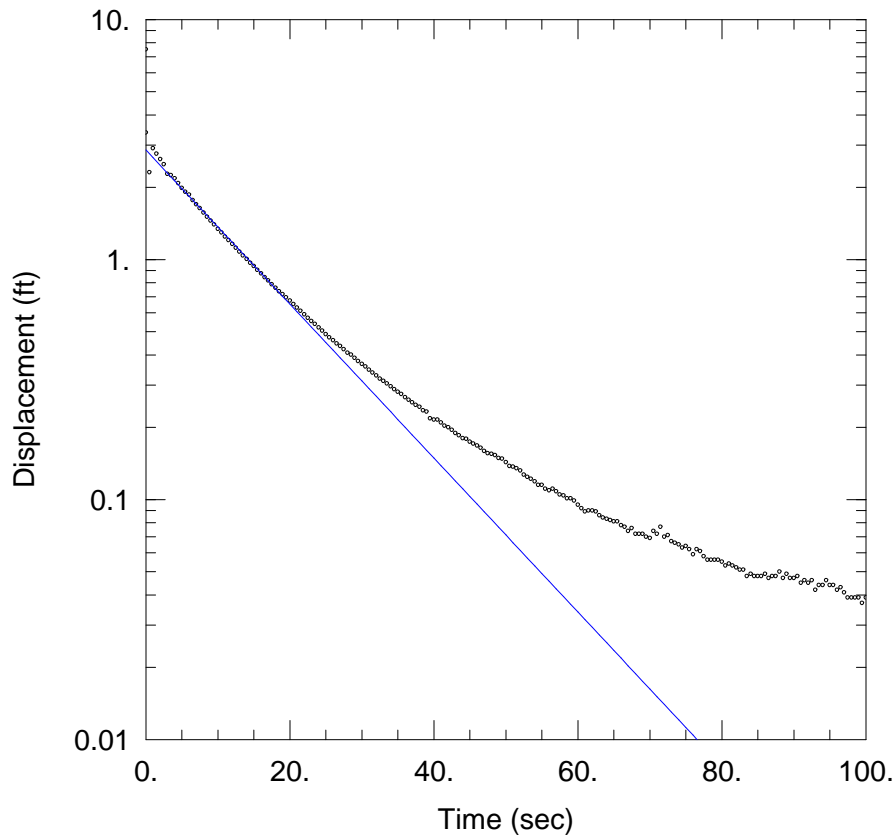
Saturated Thickness: 8. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (34-50R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 37.95 ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



34-50R RISING HEAD TEST 5

Data Set: N:\...\34-50R-RH5.aqt
 Date: 05/03/13 Time: 14:08:57

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 34-50R
 Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.005464 cm/sec
 y0 = 2.858 ft

AQUIFER DATA

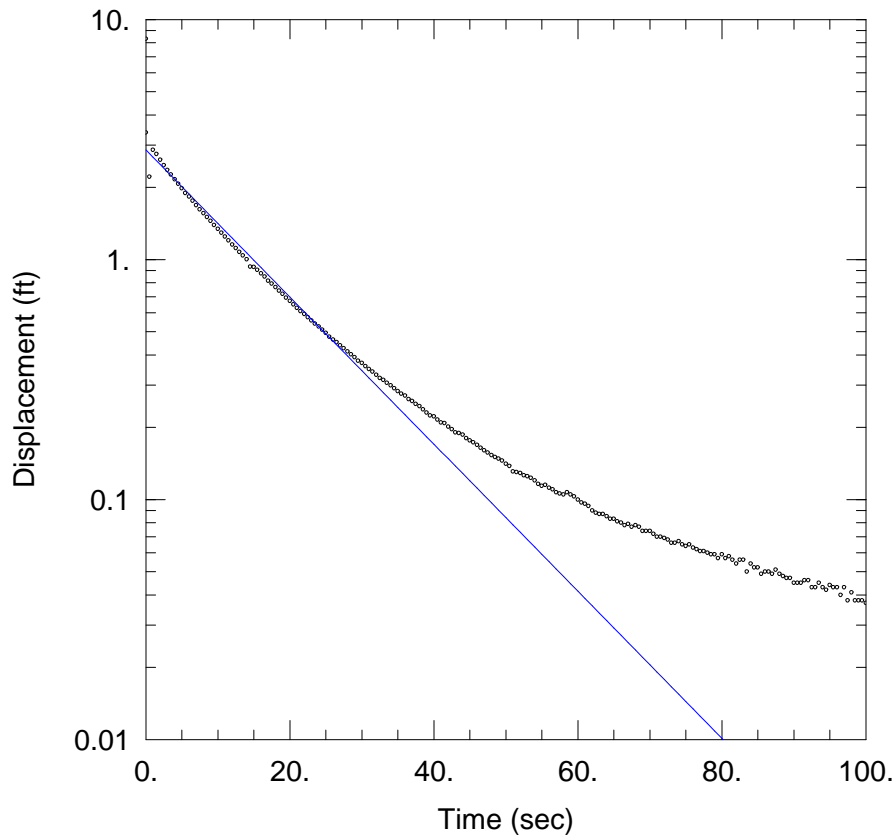
Saturated Thickness: 8. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (34-50R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 37.95 ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



34-50R RISING HEAD TEST 6

Data Set: N:\...\34-50R-RH6.aqt
 Date: 05/03/13 Time: 14:08:44

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 34-50R
 Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.005218 cm/sec
 y0 = 2.858 ft

AQUIFER DATA

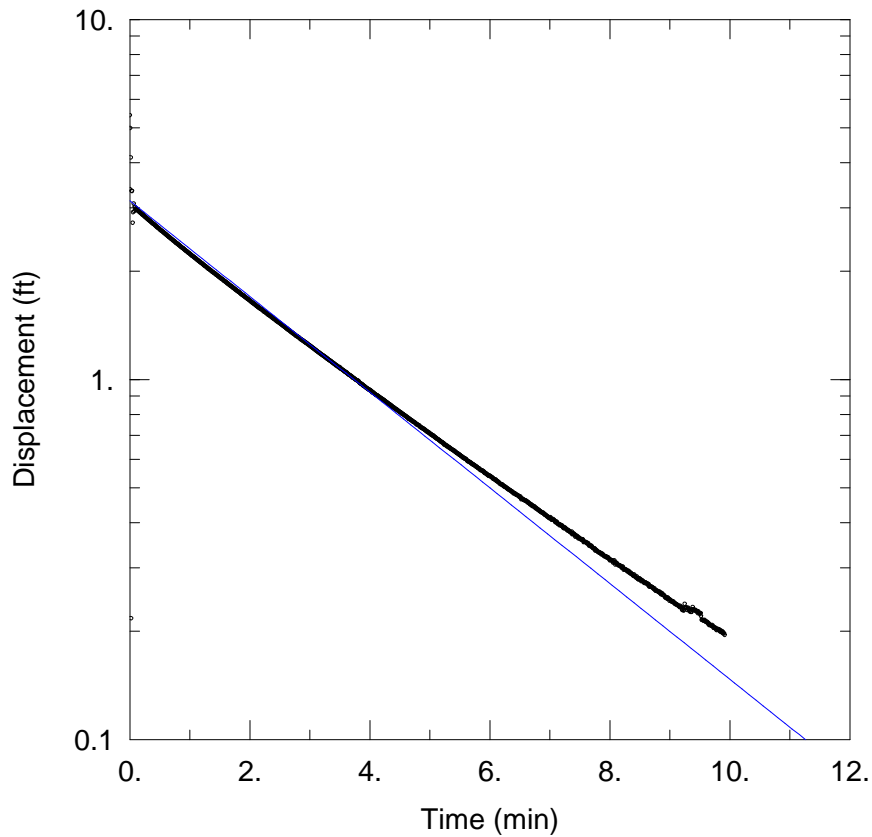
Saturated Thickness: 8. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (34-50R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 37.95 ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



34-75R FALLING HEAD TEST 1

Data Set: N:\...\34-75R-FH1.aqt
 Date: 05/03/13 Time: 14:57:59

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 34-75R
 Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0003796$ cm/sec
 $y_0 = 3.134$ ft

AQUIFER DATA

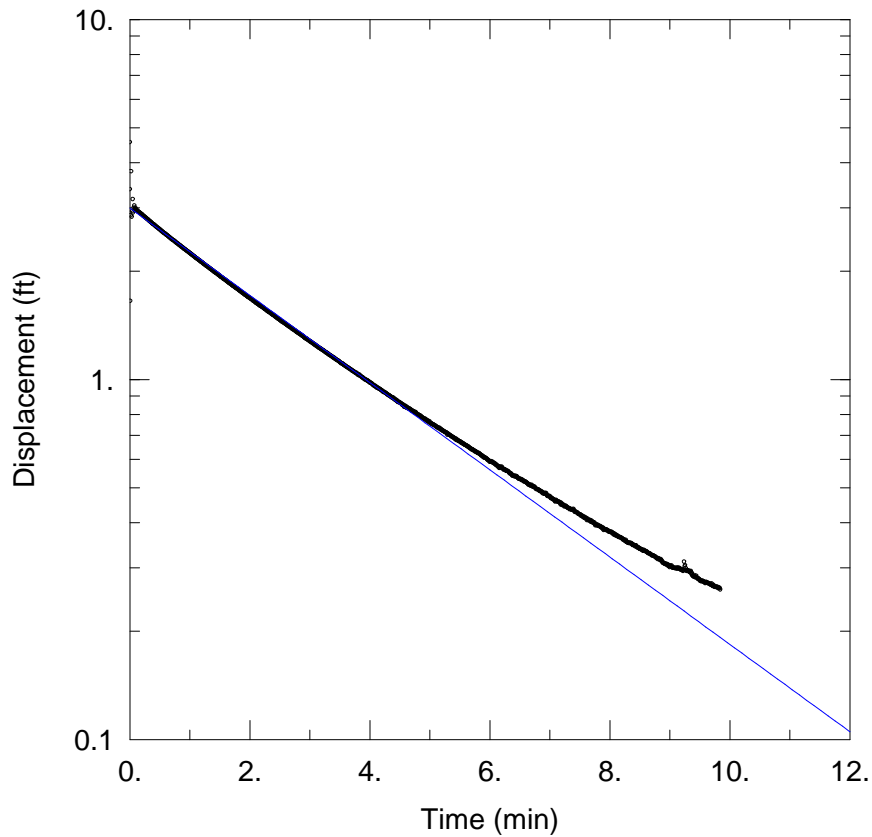
Saturated Thickness: 8.3 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (34-75R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8.3 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 63.36 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



34-75R FALLING HEAD TEST 2

Data Set: N:\...\34-75R-FH2.aqt
 Date: 05/03/13 Time: 14:57:45

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 34-75R
 Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0003462$ cm/sec
 $y_0 = 2.993$ ft

AQUIFER DATA

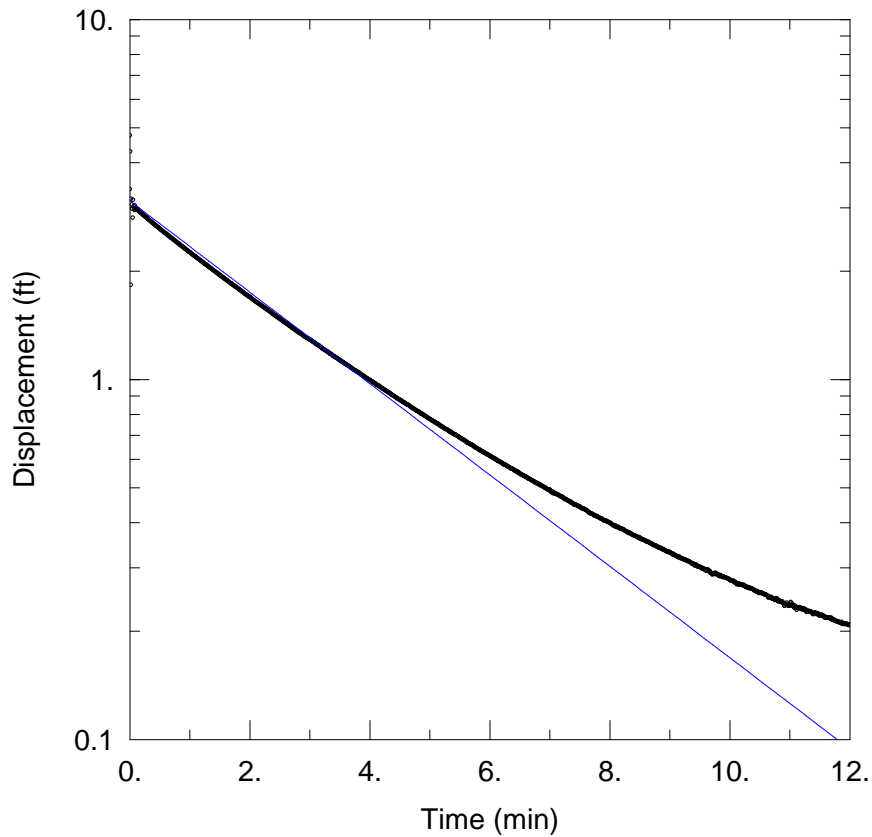
Saturated Thickness: 8.3 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (34-75R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8.3 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 63.36 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



34-75R FALLING HEAD TEST 3

Data Set: N:\...\34-75R-FH3.aqt
 Date: 05/03/13 Time: 14:57:33

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 34-75R
 Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0003626$ cm/sec
 $y_0 = 3.134$ ft

AQUIFER DATA

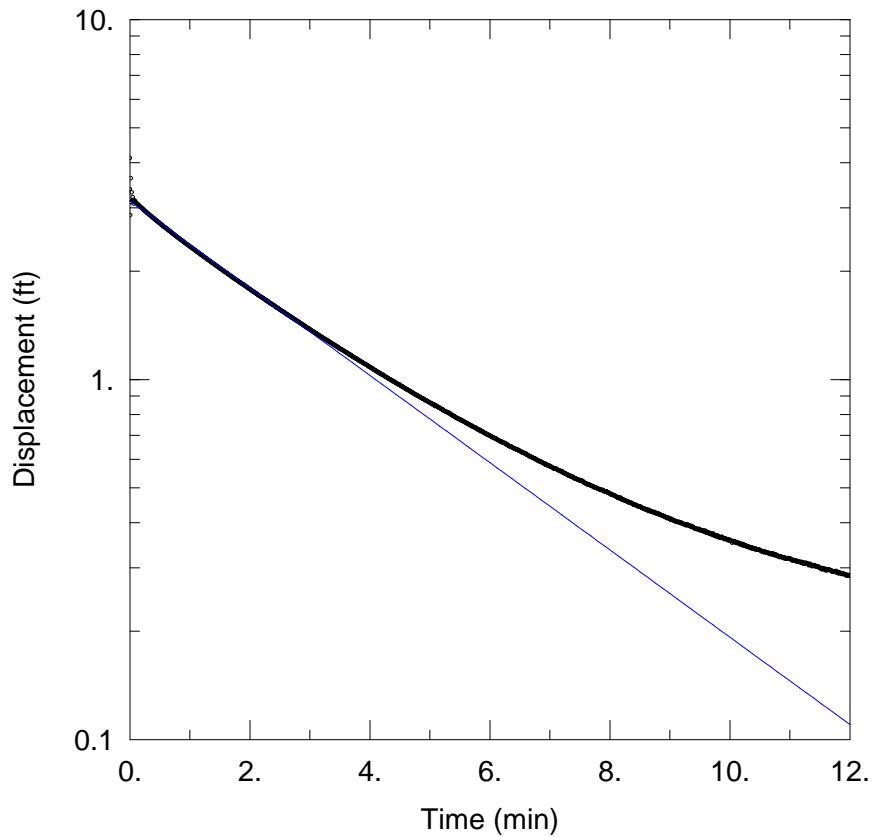
Saturated Thickness: 8.3 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (34-75R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8.3 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 63.36 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



34-75R RISING HEAD TEST 1

Data Set: N:\...\34-75R-RH1.aqt
 Date: 05/03/13 Time: 14:57:19

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 34-75R
 Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0003462$ cm/sec
 $y_0 = 3.134$ ft

AQUIFER DATA

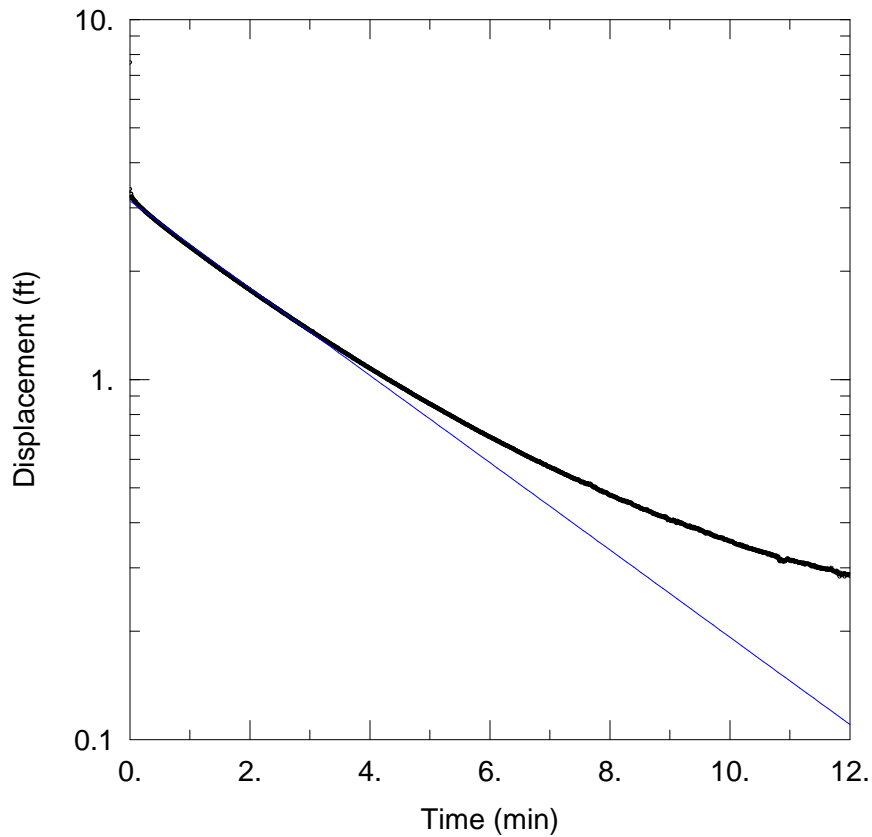
Saturated Thickness: 8.3 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (34-75R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8.3 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 63.36 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



34-75R RISING HEAD TEST 2

Data Set: N:\...\34-75R-RH2.aqt
 Date: 05/03/13 Time: 14:57:05

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 34-75R
 Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0003462$ cm/sec
 $y_0 = 3.134$ ft

AQUIFER DATA

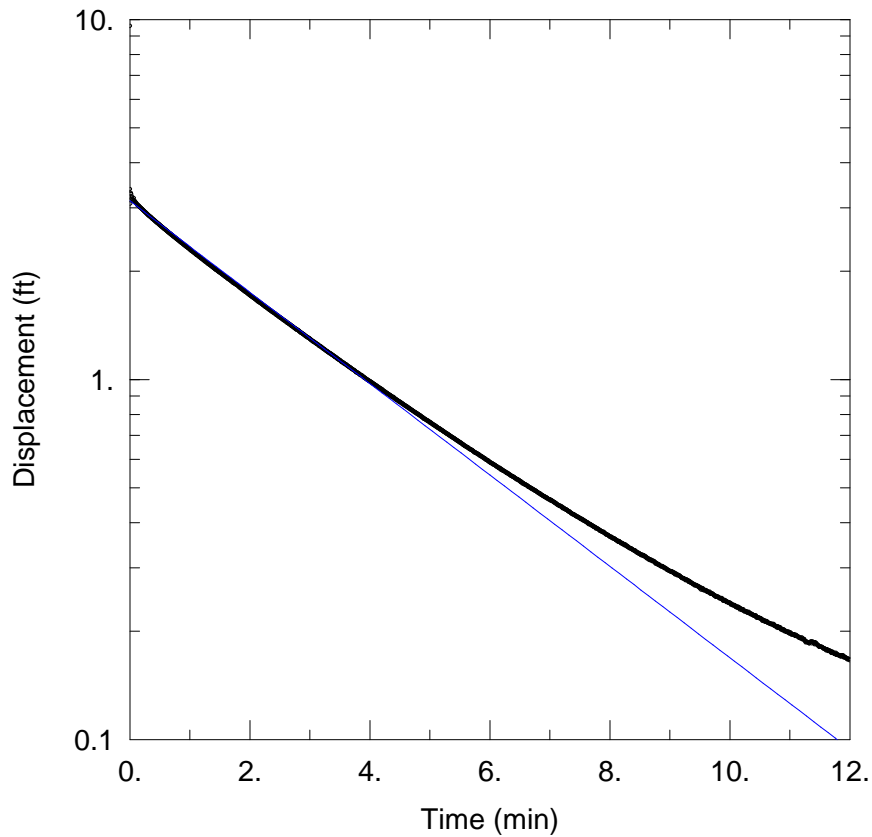
Saturated Thickness: 8.3 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (34-75R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8.3 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 63.36 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



34-75R RISING HEAD TEST 3

Data Set: N:\...\34-75R-RH3.aqt
 Date: 05/03/13 Time: 14:56:50

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 34-75R
 Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0003626$ cm/sec
 $y_0 = 3.134$ ft

AQUIFER DATA

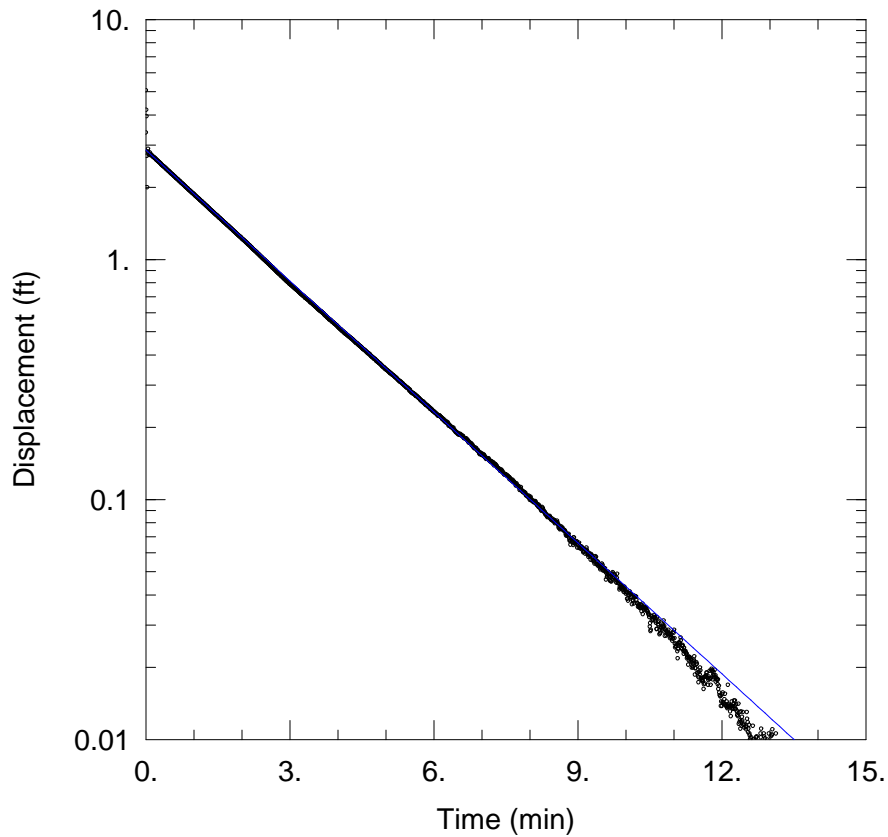
Saturated Thickness: 8.3 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (34-75R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8.3 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 63.36 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



35-100R FALLING HEAD TEST 1

Data Set: N:\...\35-100R-FH1.aqt
 Date: 05/09/13 Time: 13:48:20

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 35-100R
 Test Date: February 25, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0004779$ cm/sec
 $y_0 = 2.858$ ft

AQUIFER DATA

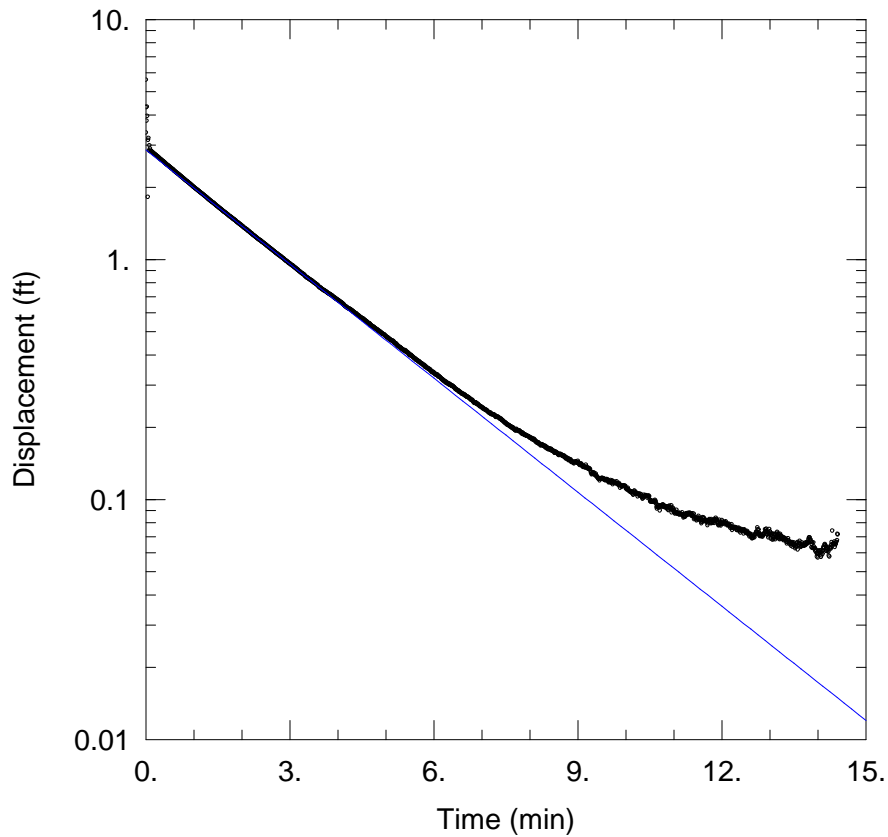
Saturated Thickness: 11. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (35-100R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 9.5 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 87.35 ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



35-100R FALLING HEAD TEST 2

Data Set: N:\...\35-100R-FH2.aqt
 Date: 05/09/13 Time: 13:48:07

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 35-100R
 Test Date: February 25, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0004163$ cm/sec
 $y_0 = 2.858$ ft

AQUIFER DATA

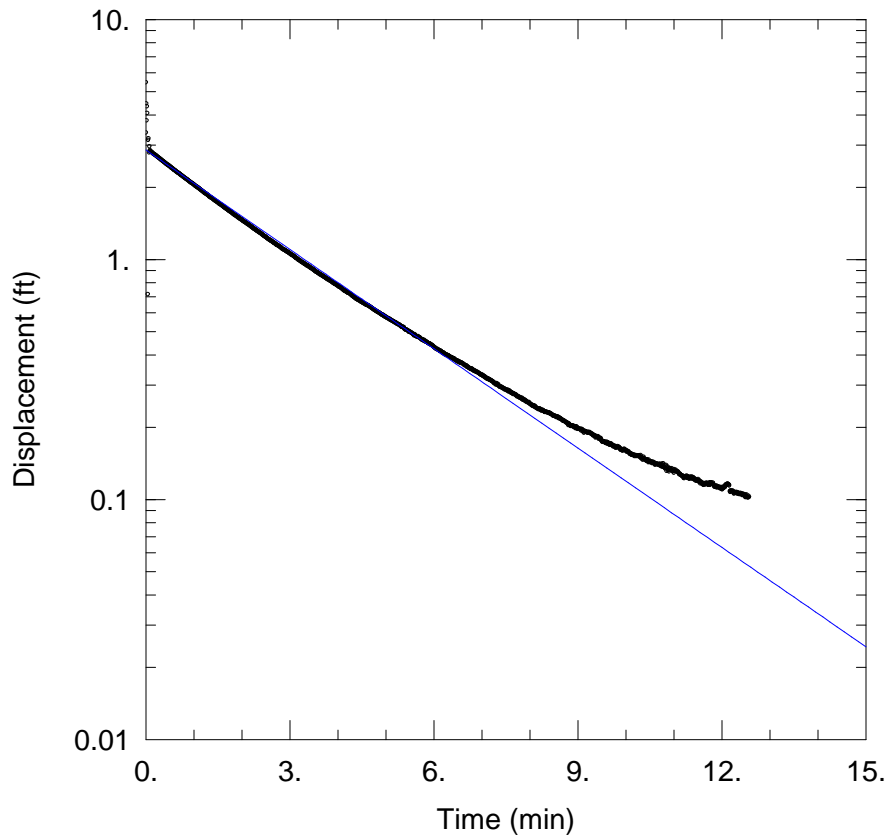
Saturated Thickness: 11. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (35-100R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 9.5 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 87.35 ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



35-100R FALLING HEAD TEST 3

Data Set: N:\...\35-100R-FH3.aqt
 Date: 05/09/13 Time: 13:47:55

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 35-100R
 Test Date: February 25, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.0003626 cm/sec
 y0 = 2.858 ft

AQUIFER DATA

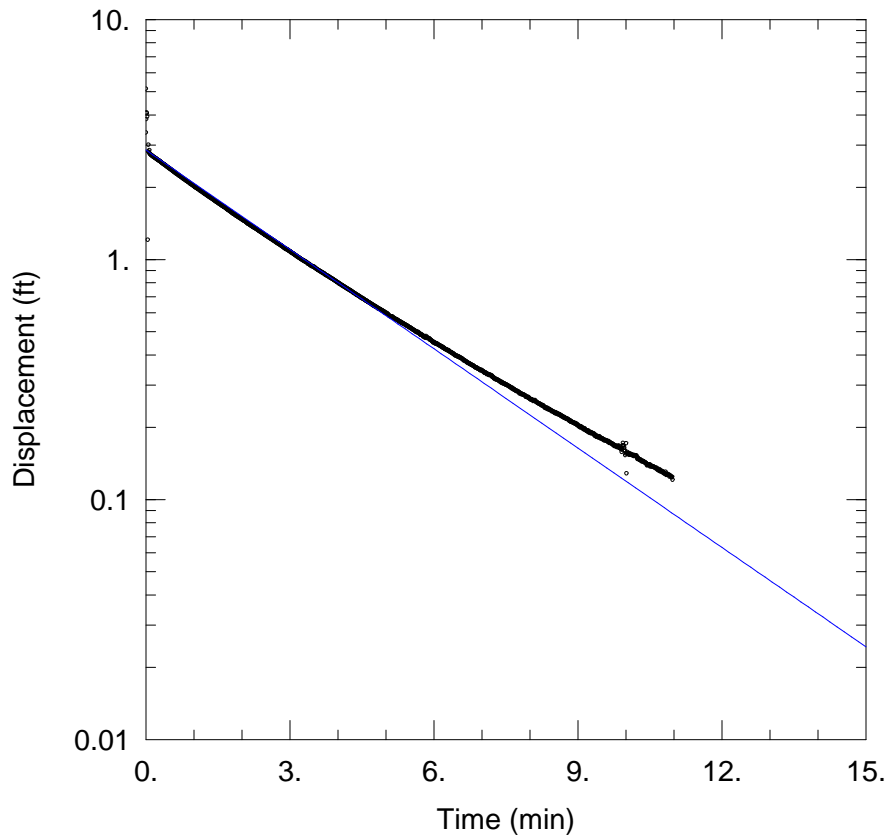
Saturated Thickness: 11. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (35-100R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 9.5 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 87.35 ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



35-100R FALLING HEAD TEST 4

Data Set: N:\...\35-100R-FH4.aqt
 Date: 05/09/13 Time: 13:47:43

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 35-100R
 Test Date: February 25, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0003626$ cm/sec
 $y_0 = 2.858$ ft

AQUIFER DATA

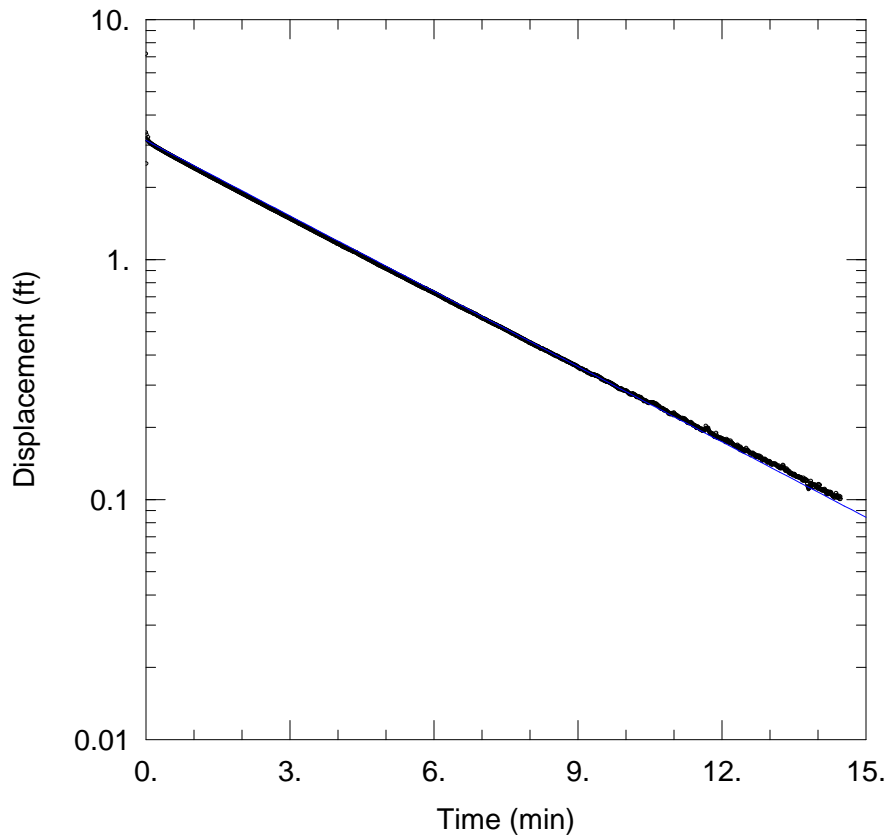
Saturated Thickness: 11. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (35-100R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 9.5 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 87.35 ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



35-100R RISING HEAD TEST 1

Data Set: N:\...\35-100R-RH1.aqt
 Date: 05/09/13 Time: 13:52:50

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 35-100R
 Test Date: February 25, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.000275 cm/sec
 y0 = 3.134 ft

AQUIFER DATA

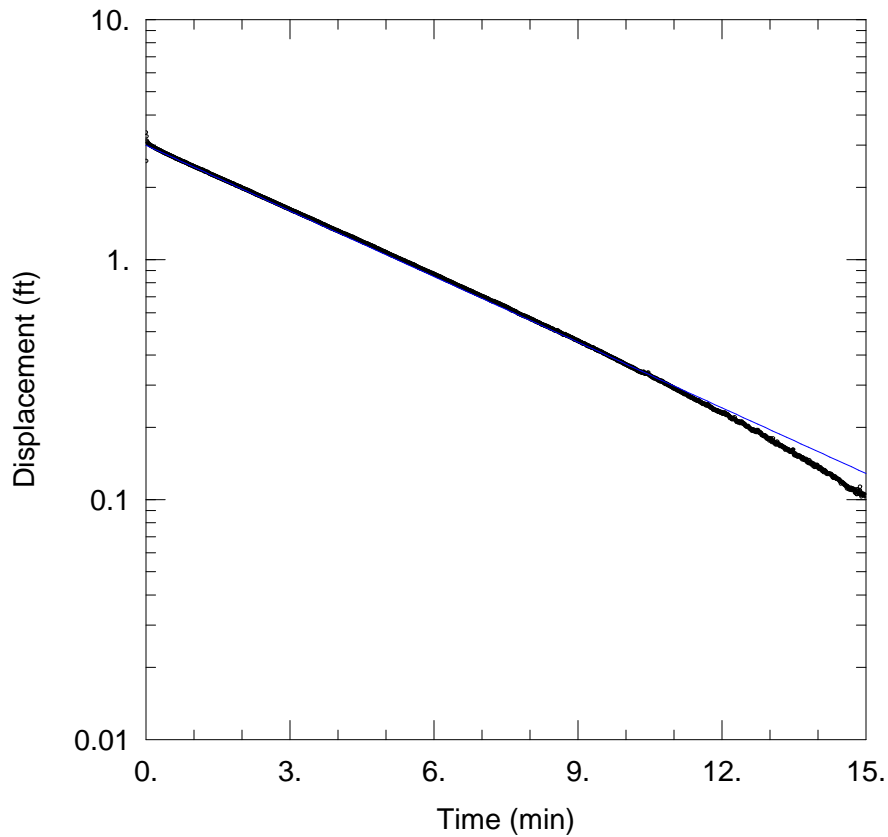
Saturated Thickness: 11. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (35-100R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 9.5 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 87.35 ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



35-100R RISING HEAD TEST 2

Data Set: N:\...\35-100R-RH2.aqt
 Date: 05/09/13 Time: 13:52:38

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 35-100R
 Test Date: February 25, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0002395$ cm/sec
 $y_0 = 2.993$ ft

AQUIFER DATA

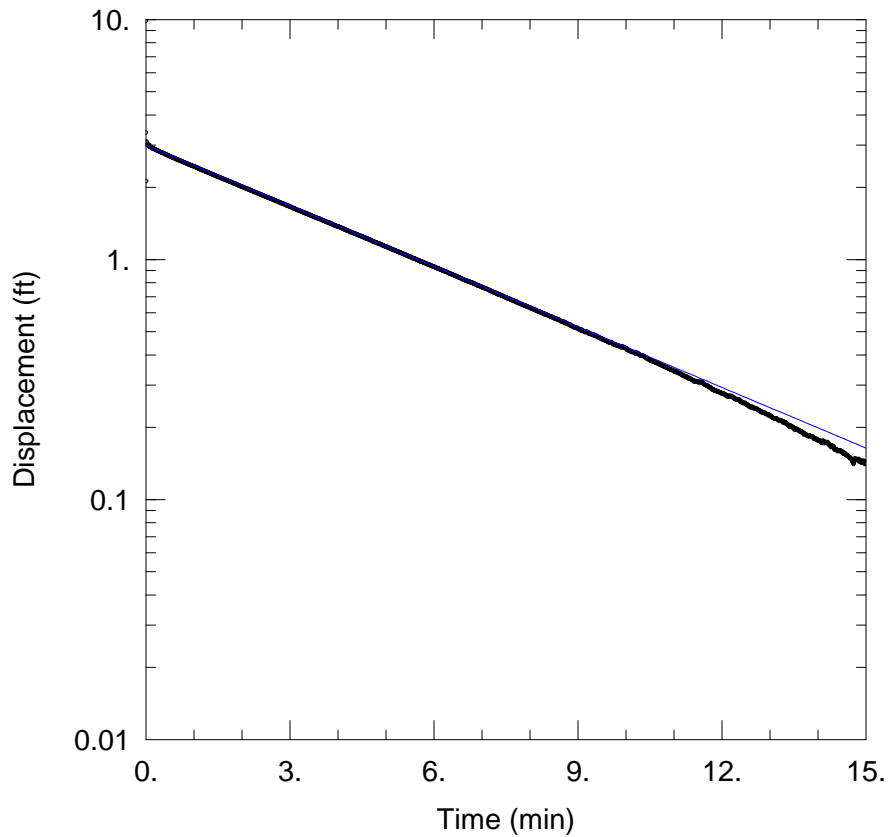
Saturated Thickness: 11. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (35-100R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 9.5 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 87.35 ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



35-100R RISING HEAD TEST 3

Data Set: N:\...\35-100R-RH3.aqt
 Date: 05/09/13 Time: 13:52:26

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 35-100R
 Test Date: February 25, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.000221$ cm/sec
 $y_0 = 2.993$ ft

AQUIFER DATA

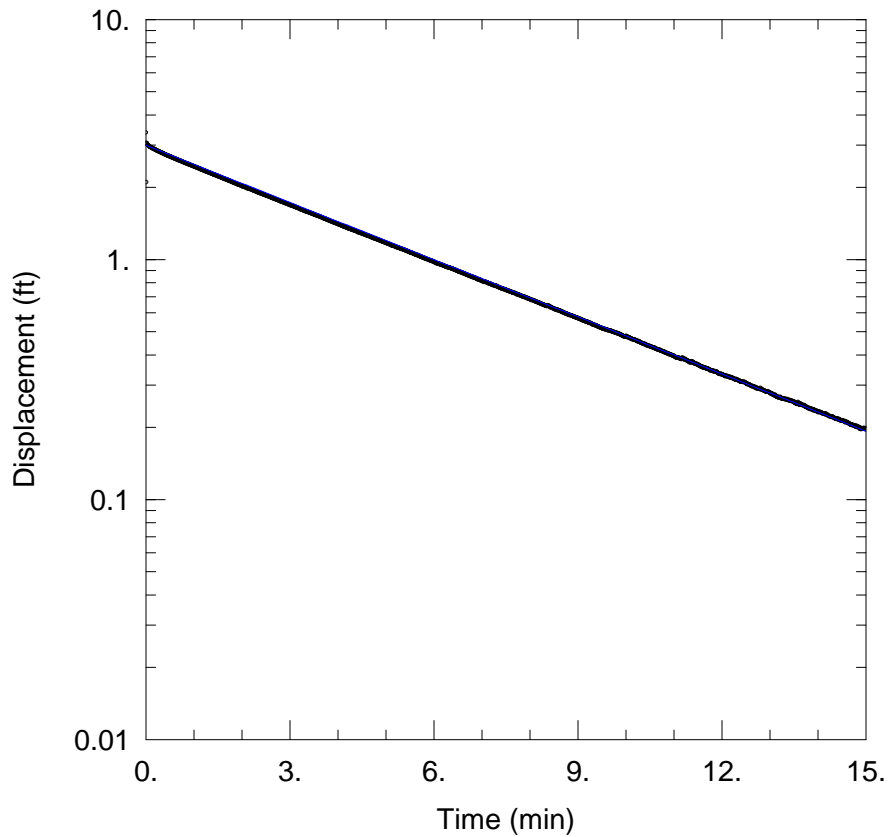
Saturated Thickness: 11. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (35-100R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 9.5 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 87.35 ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



35-100R RISING HEAD TEST 4

Data Set: N:\...\35-100R-RH4.aqt
 Date: 05/09/13 Time: 13:52:12

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 35-100R
 Test Date: February 25, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0002086$ cm/sec
 $y_0 = 2.993$ ft

AQUIFER DATA

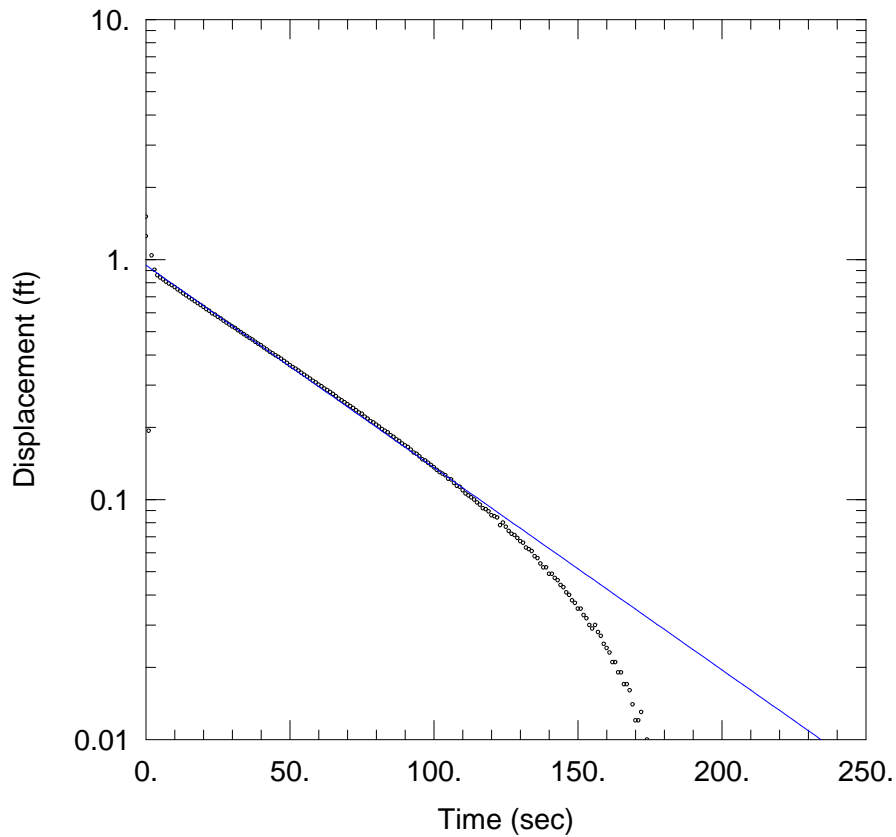
Saturated Thickness: 11. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (35-100R)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 9.5 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 87.35 ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



35-25 FALLING HEAD TEST 1

Data Set: N:\...\35-25-FH1.aqt

Date: 05/03/13

Time: 15:13:24

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 35-25

Test Date: February 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.001142 cm/sec

y0 = 0.9465 ft

AQUIFER DATA

Saturated Thickness: 7. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (35-25)

Initial Displacement: 1.25 ft

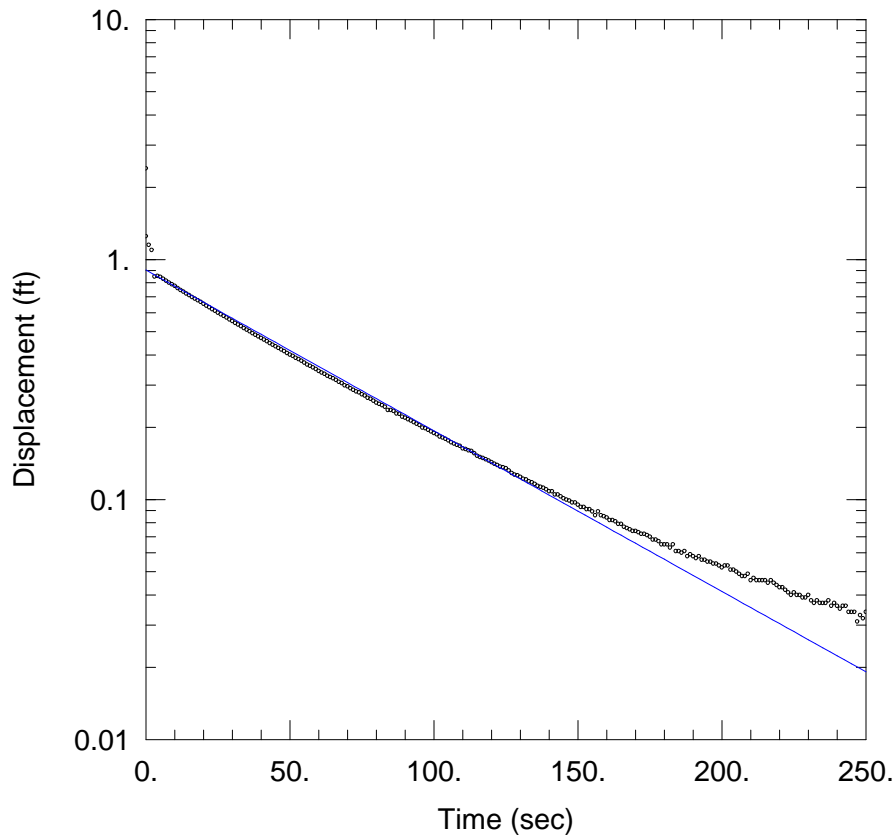
Total Well Penetration Depth: 6. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.12 ft

Screen Length: 5. ft

Well Radius: 0.3438 ft



35-25 FALLING HEAD TEST 2

Data Set: N:\...\35-25-FH2.aqt

Date: 05/03/13

Time: 15:13:10

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 35-25

Test Date: February 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0009068 cm/sec

y0 = 0.9039 ft

AQUIFER DATA

Saturated Thickness: 7. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (35-25)

Initial Displacement: 1.25 ft

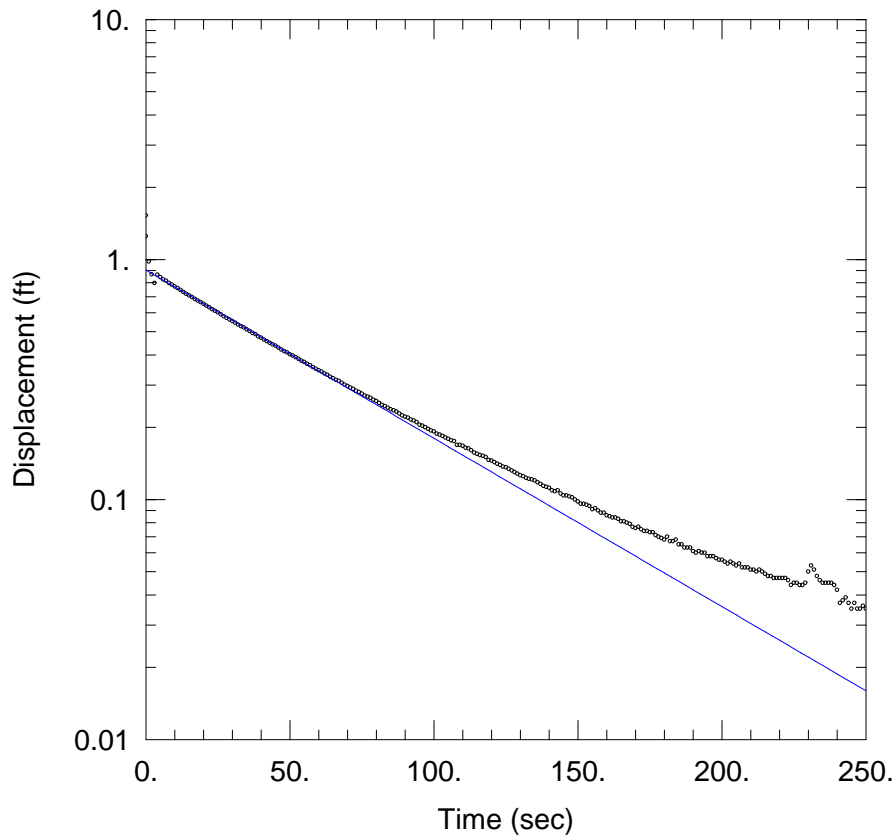
Total Well Penetration Depth: 6. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.12 ft

Screen Length: 5. ft

Well Radius: 0.3438 ft



35-25 FALLING HEAD TEST 3

Data Set: N:\...\35-25-FH3.aqt
 Date: 05/03/13 Time: 15:25:16

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 35-25
 Test Date: February 23, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0009496$ cm/sec
 $y_0 = 0.9039$ ft

AQUIFER DATA

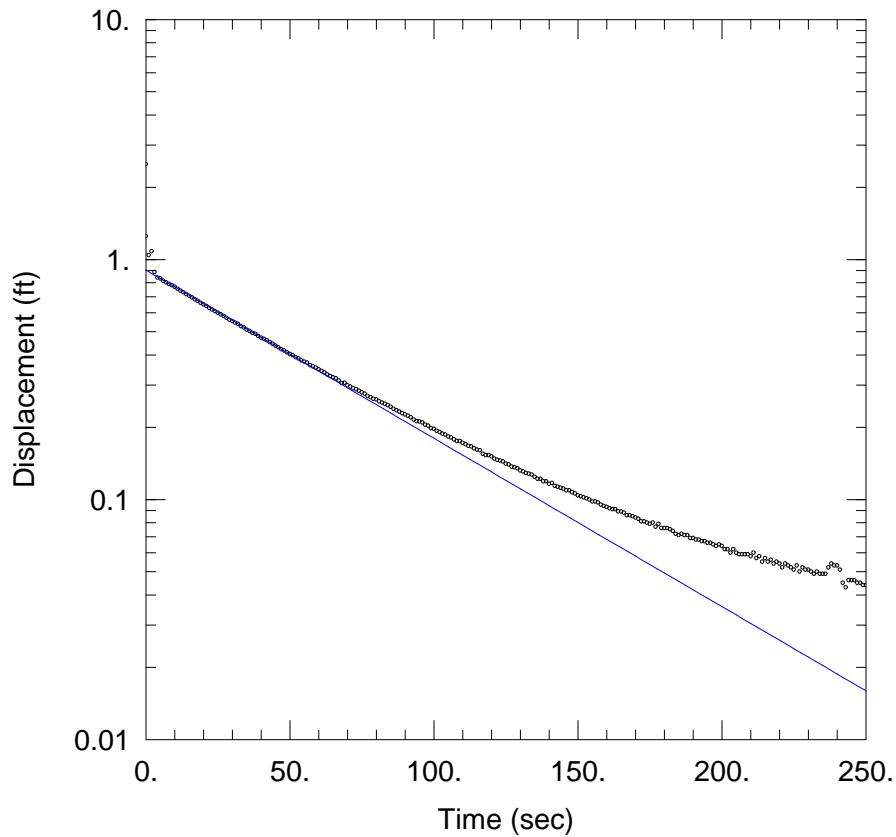
Saturated Thickness: 7. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (35-25)

Initial Displacement: 1.25 ft
 Total Well Penetration Depth: 6. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 15.12 ft
 Screen Length: 5. ft
 Well Radius: 0.3438 ft



35-25 FALLING HEAD TEST 4

Data Set: N:\...\35-25-FH4.aqt
 Date: 05/03/13 Time: 15:25:01

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 35-25
 Test Date: February 23, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0009496$ cm/sec
 $y_0 = 0.9039$ ft

AQUIFER DATA

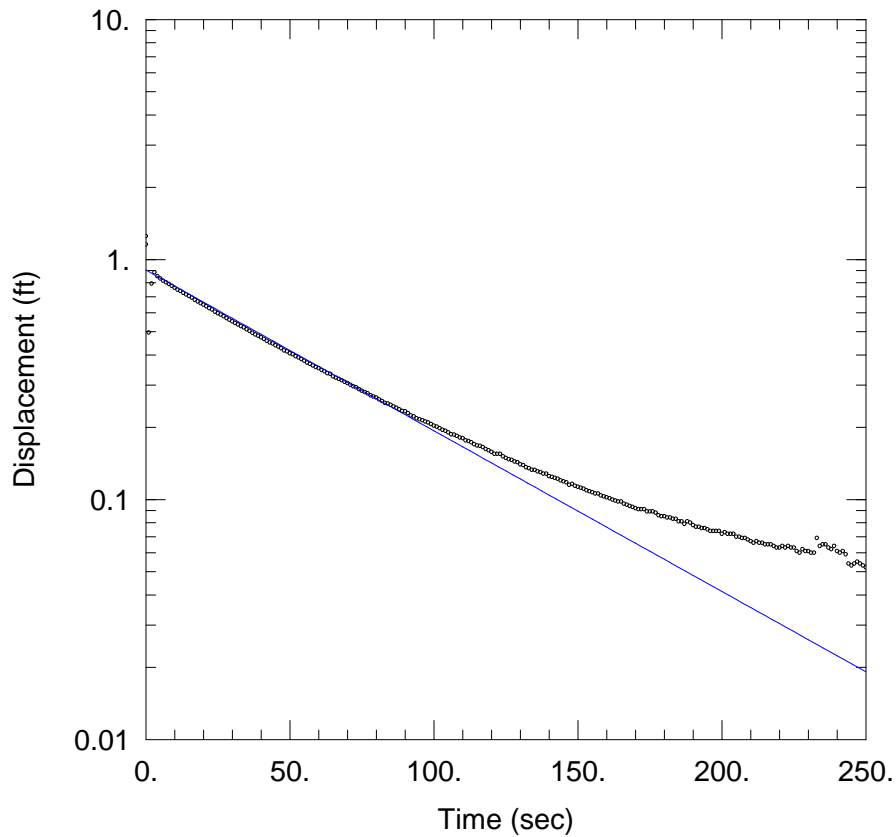
Saturated Thickness: 7. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (35-25)

Initial Displacement: 1.25 ft
 Total Well Penetration Depth: 6. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 15.12 ft
 Screen Length: 5. ft
 Well Radius: 0.3438 ft



35-25 FALLING HEAD TEST 5

Data Set: N:\...\35-25-FH5.aqt

Date: 05/03/13

Time: 15:24:44

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 35-25

Test Date: February 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0009068 cm/sec

y0 = 0.9039 ft

AQUIFER DATA

Saturated Thickness: 7. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (35-25)

Initial Displacement: 1.25 ft

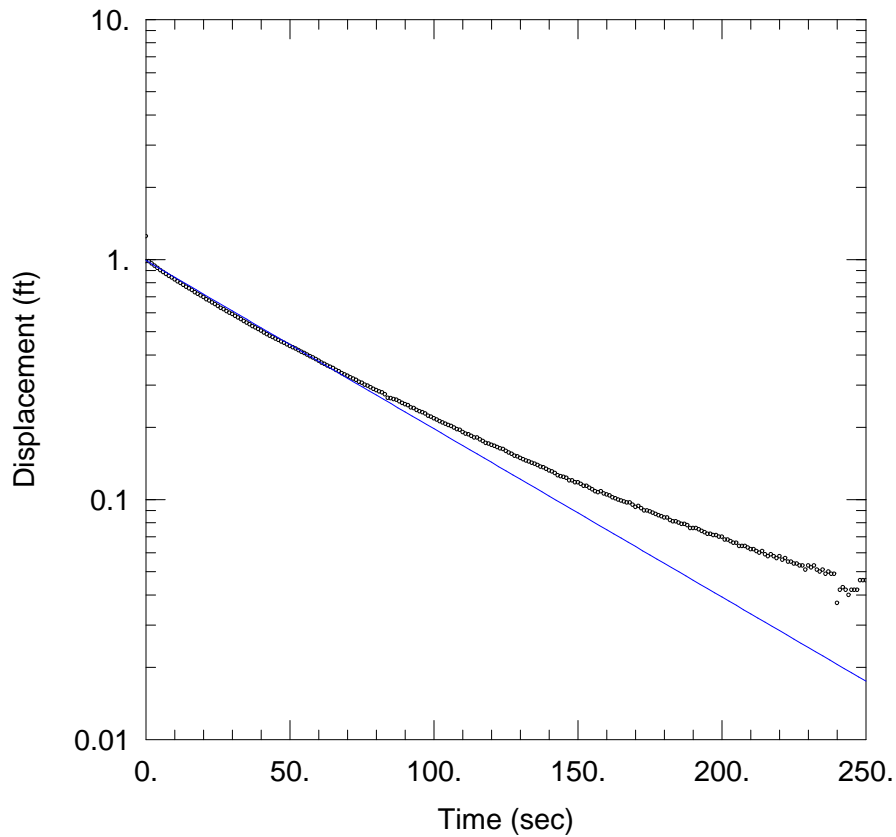
Total Well Penetration Depth: 6. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.12 ft

Screen Length: 5. ft

Well Radius: 0.3438 ft



35-25 RISING HEAD TEST 1

Data Set: N:\...\35-25-RH1.aqt

Date: 05/03/13

Time: 15:27:24

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 35-25

Test Date: February 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0009496 cm/sec

y0 = 0.9911 ft

AQUIFER DATA

Saturated Thickness: 7. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (35-25)

Initial Displacement: 1.25 ft

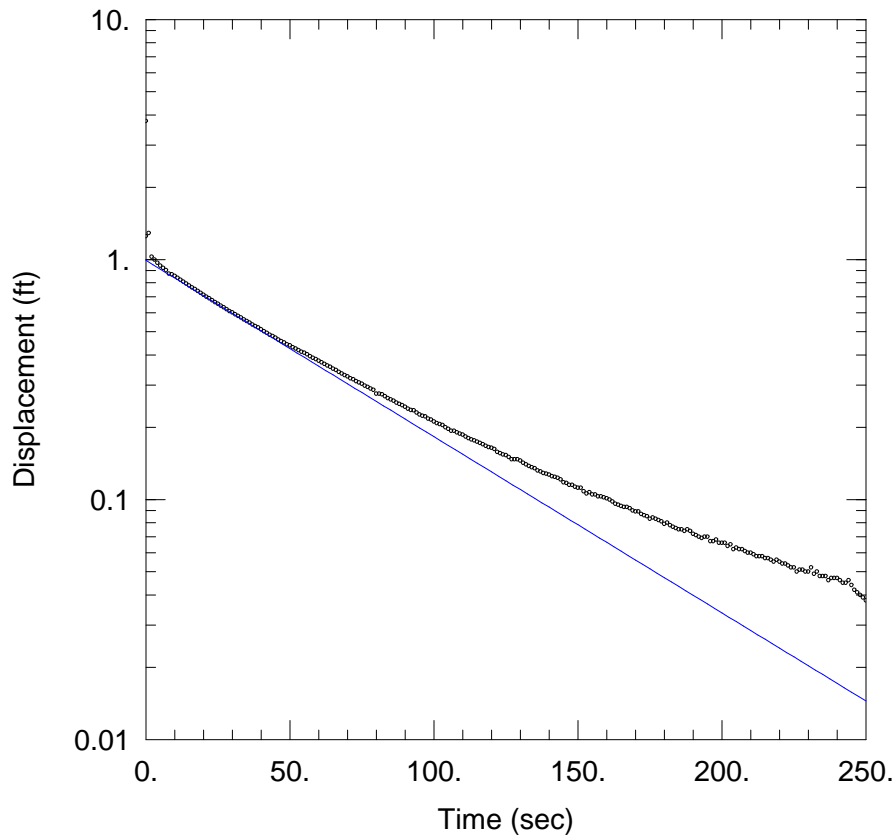
Total Well Penetration Depth: 6. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.12 ft

Screen Length: 5. ft

Well Radius: 0.3438 ft



35-25 RISING HEAD TEST 2

Data Set: N:\...\35-25-RH2.aqt
 Date: 05/03/13 Time: 15:27:09

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 35-25
 Test Date: February 23, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0009943$ cm/sec
 $y_0 = 0.9911$ ft

AQUIFER DATA

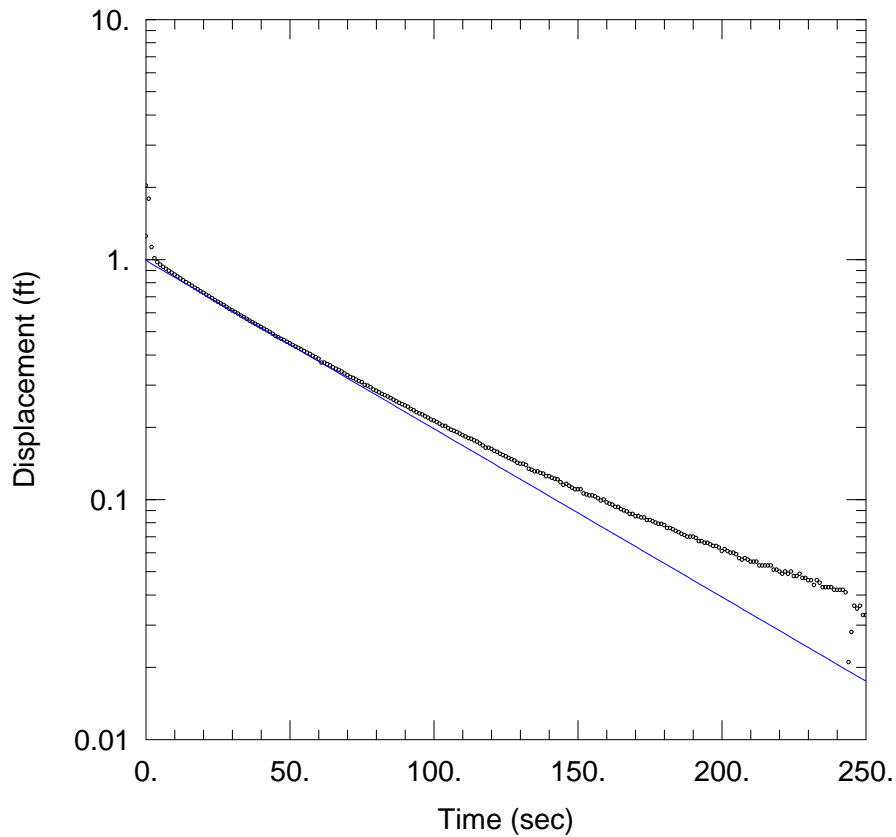
Saturated Thickness: 7. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (35-25)

Initial Displacement: 1.25 ft
 Total Well Penetration Depth: 6. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 15.12 ft
 Screen Length: 5. ft
 Well Radius: 0.3438 ft



35-25 RISING HEAD TEST 3

Data Set: N:\...\35-25-RH3.aqt
 Date: 05/03/13 Time: 15:26:55

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 35-25
 Test Date: February 23, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0009496$ cm/sec
 $y_0 = 0.9911$ ft

AQUIFER DATA

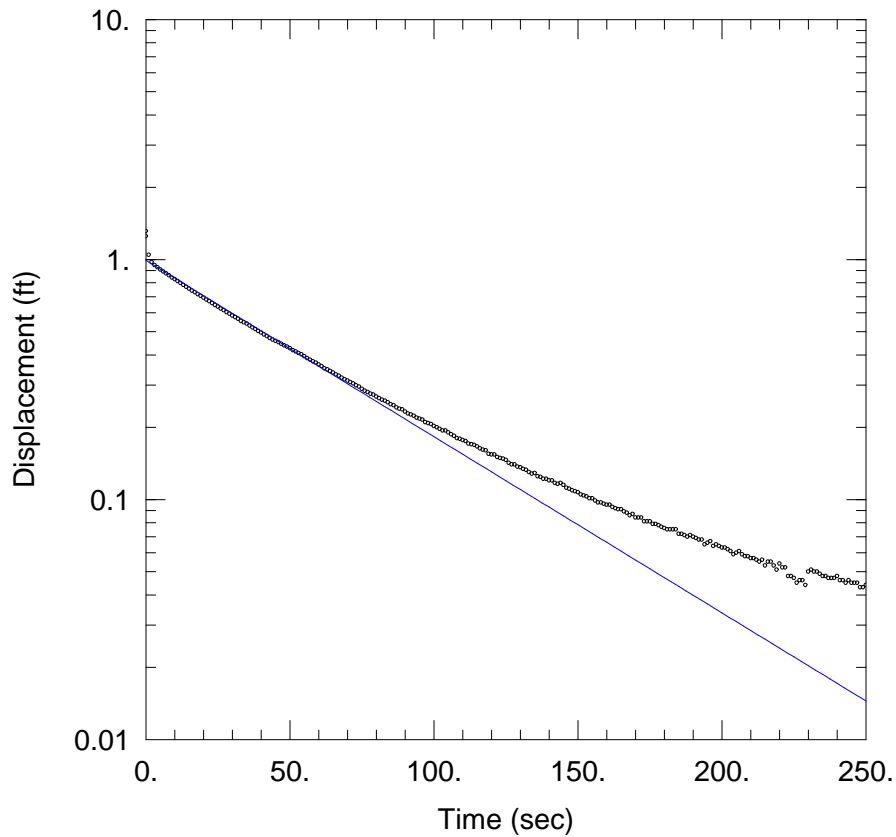
Saturated Thickness: 7. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (35-25)

Initial Displacement: 1.25 ft
 Total Well Penetration Depth: 6. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 15.12 ft
 Screen Length: 5. ft
 Well Radius: 0.3438 ft



35-25 RISING HEAD TEST 4

Data Set: N:\...\35-25-RH4.aqt
 Date: 05/03/13 Time: 15:26:42

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 35-25
 Test Date: February 23, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0009943$ cm/sec
 $y_0 = 0.9911$ ft

AQUIFER DATA

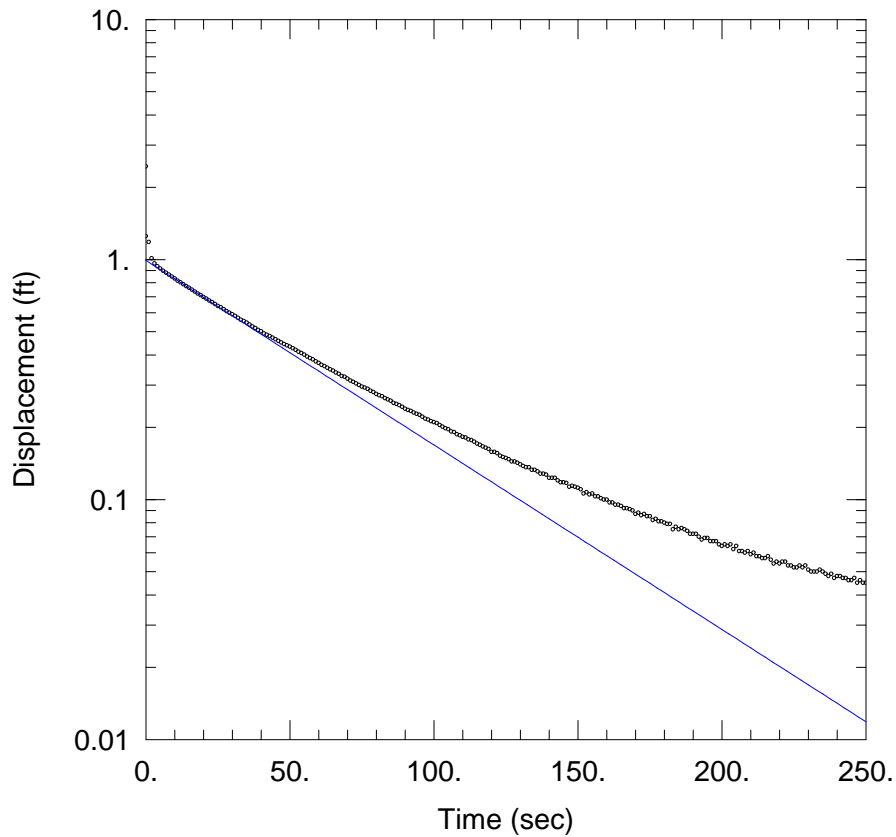
Saturated Thickness: 7. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (35-25)

Initial Displacement: 1.25 ft
 Total Well Penetration Depth: 6. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 15.12 ft
 Screen Length: 5. ft
 Well Radius: 0.3438 ft



35-25 RISING HEAD TEST 5

Data Set: N:\...\35-25-RH5.aqt
 Date: 05/03/13 Time: 15:26:30

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 35-25
 Test Date: February 23, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001041$ cm/sec
 $y_0 = 0.9911$ ft

AQUIFER DATA

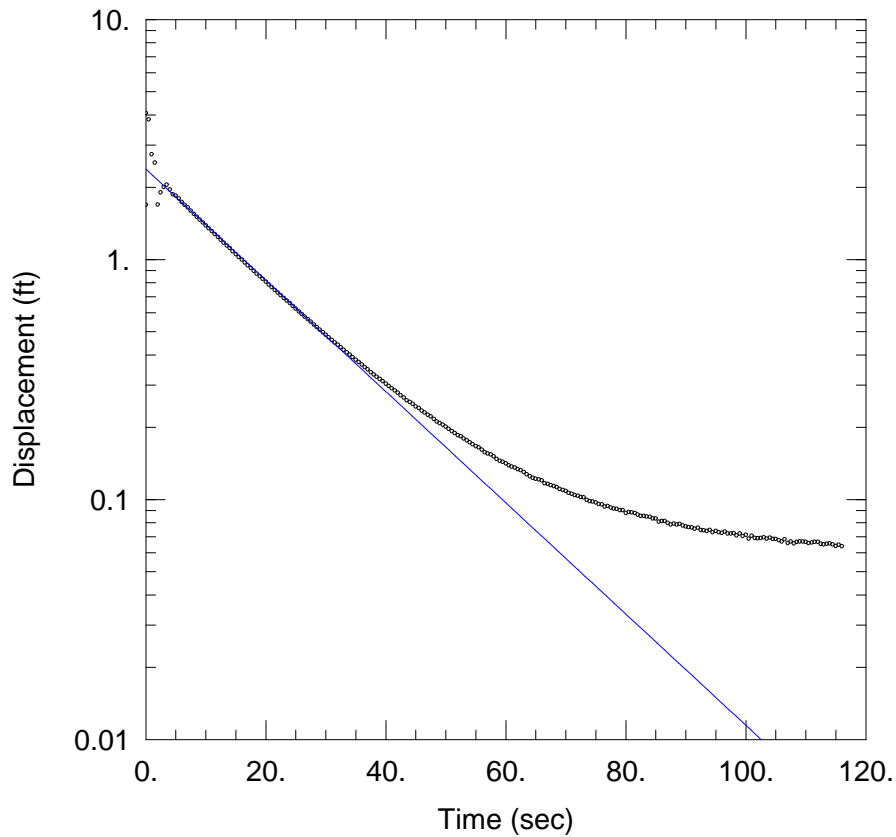
Saturated Thickness: 7. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (35-25)

Initial Displacement: 1.25 ft
 Total Well Penetration Depth: 6. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 15.12 ft
 Screen Length: 5. ft
 Well Radius: 0.3438 ft



40-100R FALLING HEAD TEST 1

Data Set: N:\...\40-100R-FH1.aqt
 Date: 05/06/13 Time: 10:55:42

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 40-100R
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.005464$ cm/sec
 $y_0 = 2.378$ ft

AQUIFER DATA

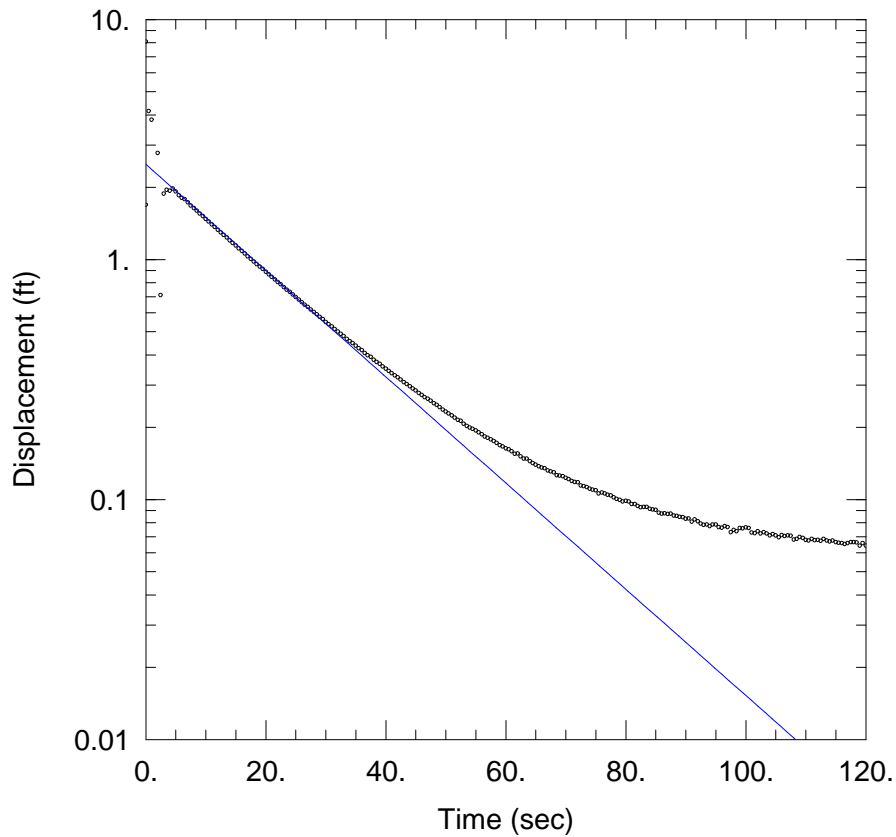
Saturated Thickness: 6.63 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-100R)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 6.63 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 86.45 ft
 Screen Length: 3.13 ft
 Well Radius: 0.333 ft



40-100R FALLING HEAD TEST 2

Data Set: N:\...\40-100R-FH2.aqt
 Date: 05/06/13 Time: 10:55:26

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 40-100R
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.005218$ cm/sec
 $y_0 = 2.49$ ft

AQUIFER DATA

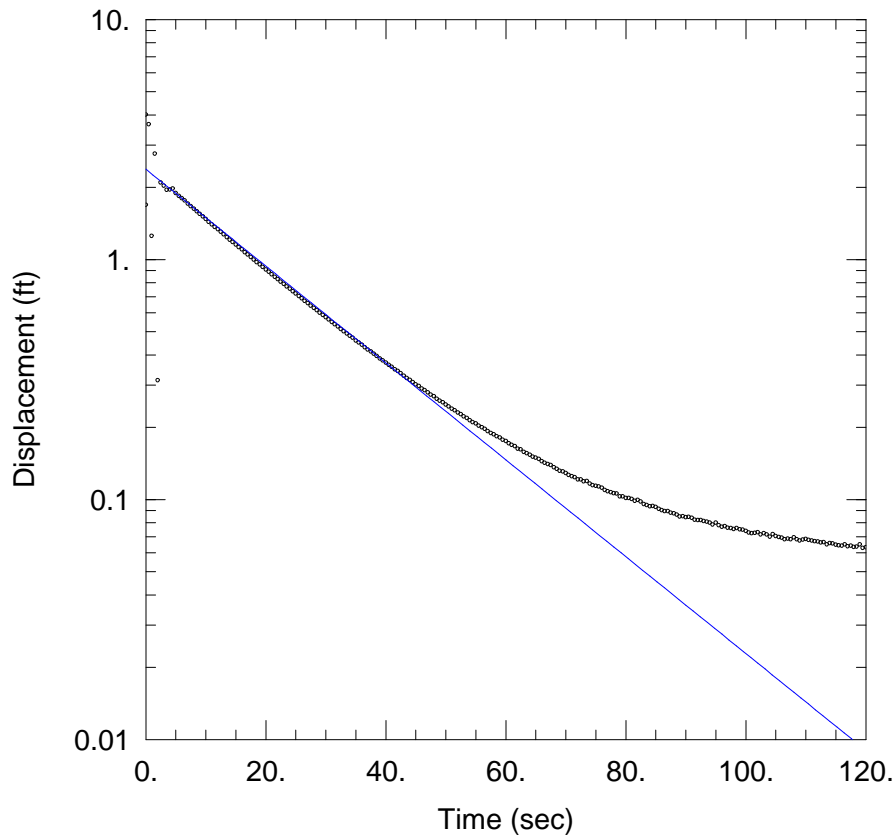
Saturated Thickness: 6.63 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-100R)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 6.63 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 86.45 ft
 Screen Length: 3.13 ft
 Well Radius: 0.333 ft



40-100R FALLING HEAD TEST 3

Data Set: N:\...\40-100R-FH3.aqt
 Date: 05/06/13 Time: 10:55:14

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 40-100R
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.004759$ cm/sec
 $y_0 = 2.378$ ft

AQUIFER DATA

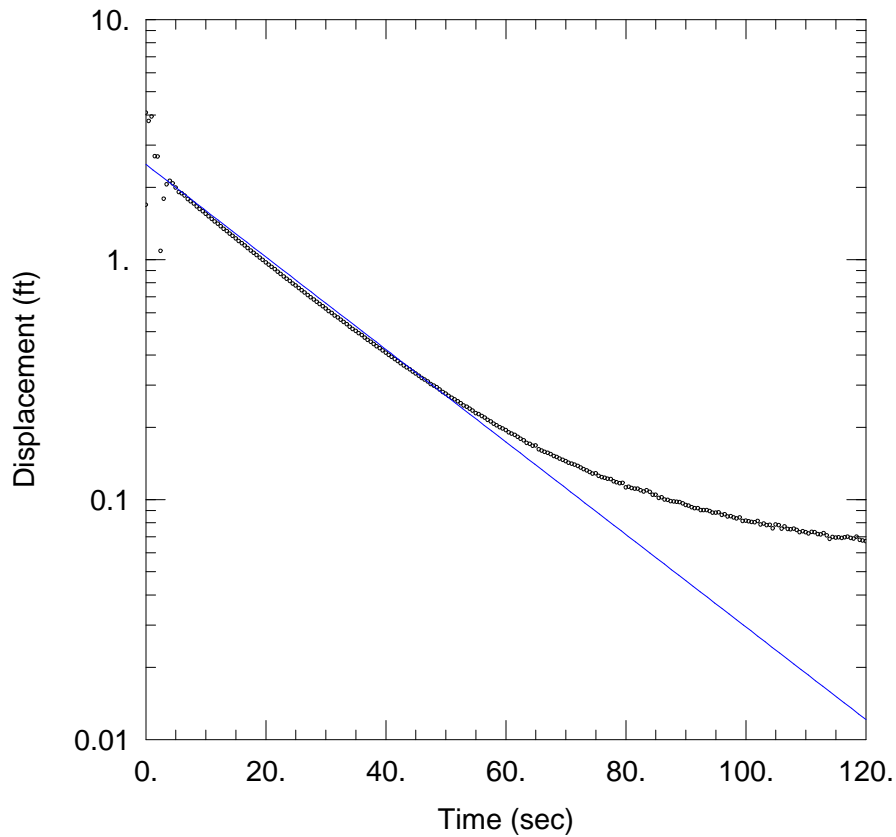
Saturated Thickness: 6.63 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-100R)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 6.63 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 86.45 ft
 Screen Length: 3.13 ft
 Well Radius: 0.333 ft



40-100R FALLING HEAD TEST 4

Data Set: N:\...\40-100R-FH4.aqt
 Date: 05/06/13 Time: 10:55:01

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 40-100R
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.004545$ cm/sec
 $y_0 = 2.49$ ft

AQUIFER DATA

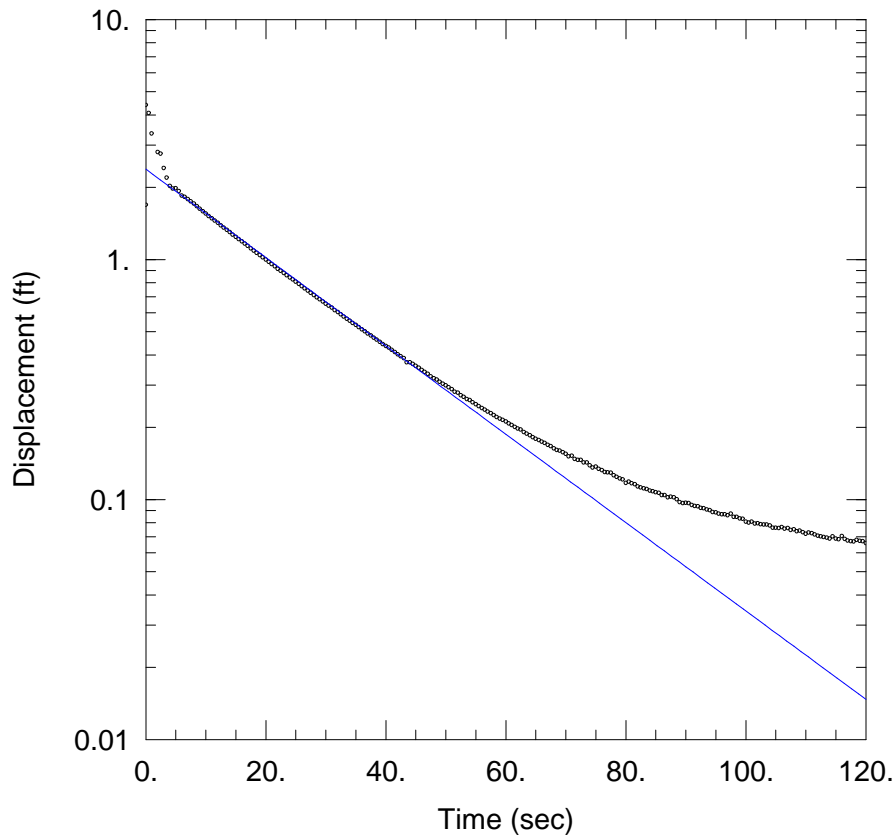
Saturated Thickness: 6.63 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-100R)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 6.63 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 86.45 ft
 Screen Length: 3.13 ft
 Well Radius: 0.333 ft



40-100R FALLING HEAD TEST 5

Data Set: N:\...\40-100R-FH5.aqt
 Date: 05/06/13 Time: 10:54:48

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 40-100R
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.00434$ cm/sec
 $y_0 = 2.378$ ft

AQUIFER DATA

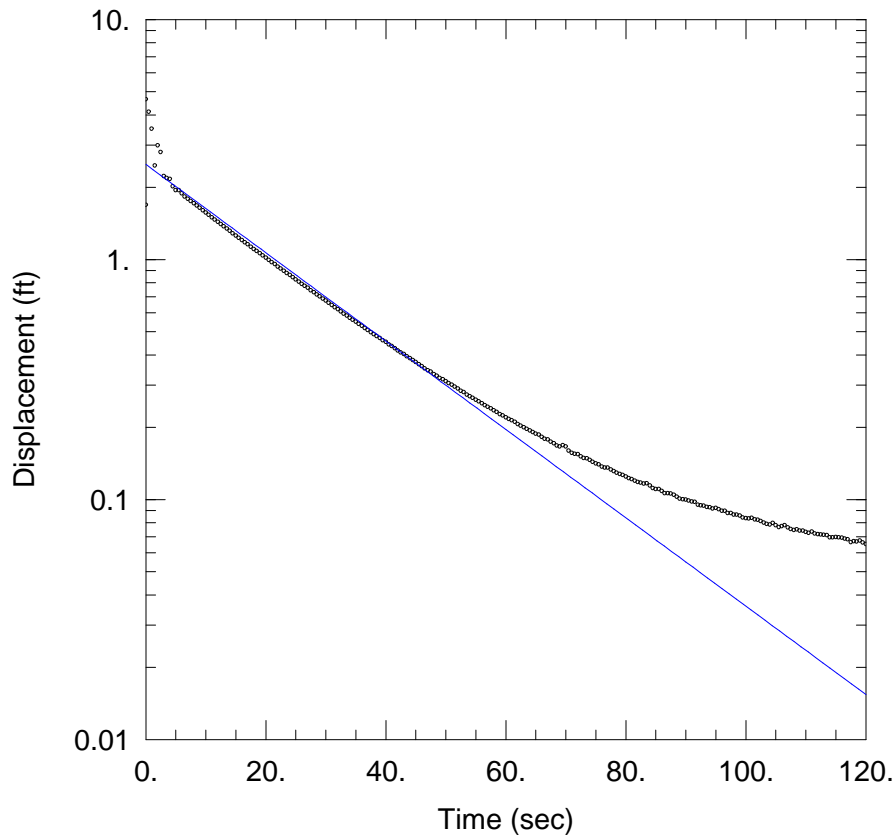
Saturated Thickness: 6.63 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-100R)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 6.63 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 86.45 ft
 Screen Length: 3.13 ft
 Well Radius: 0.333 ft



40-100R FALLING HEAD TEST 6

Data Set: N:\...\40-100R-FH6.aqt
 Date: 05/06/13 Time: 10:54:35

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 40-100R
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.00434$ cm/sec
 $y_0 = 2.49$ ft

AQUIFER DATA

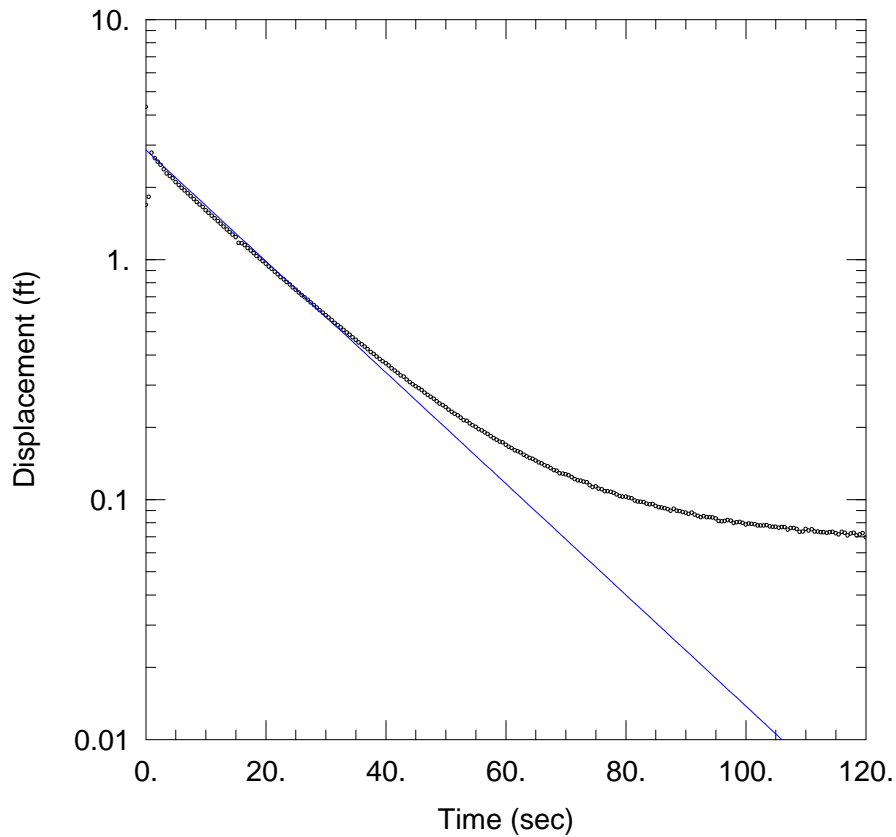
Saturated Thickness: 6.63 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-100R)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 6.63 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 86.45 ft
 Screen Length: 3.13 ft
 Well Radius: 0.333 ft



40-100R RISING HEAD TEST 1

Data Set: N:\...\40-100R-RH1.aqt
 Date: 05/06/13 Time: 11:03:08

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 40-100R
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.005464$ cm/sec
 $y_0 = 2.858$ ft

AQUIFER DATA

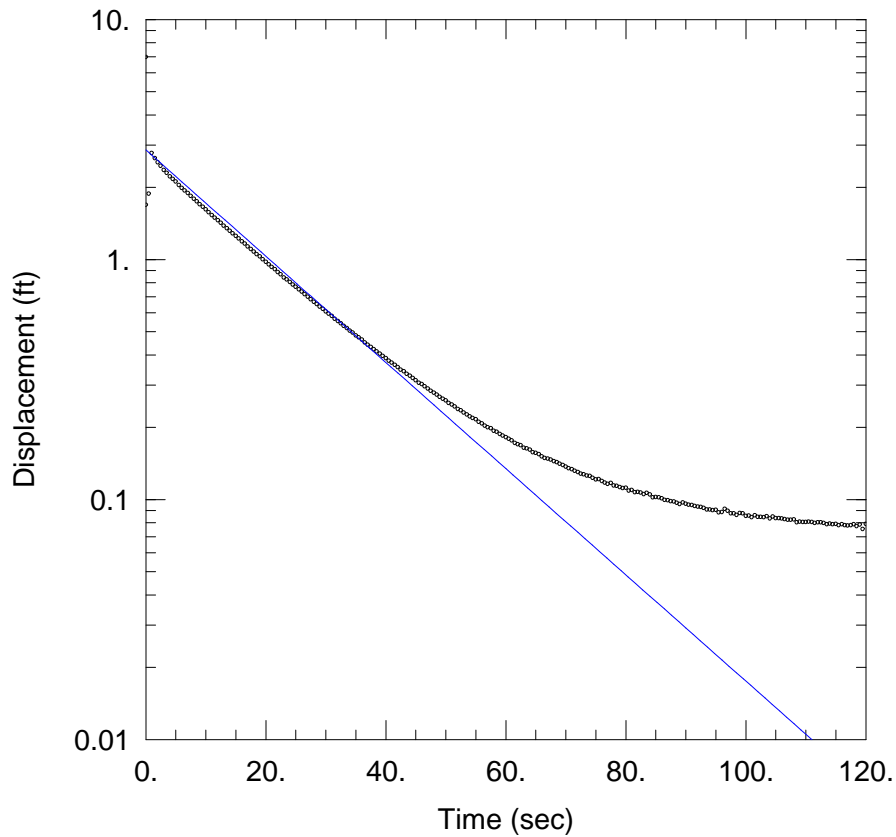
Saturated Thickness: 6.63 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-100R)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 6.63 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 86.45 ft
 Screen Length: 3.13 ft
 Well Radius: 0.333 ft



40-100R RISING HEAD TEST 2

Data Set: N:\...\40-100R-RH2.aqt
 Date: 05/06/13 Time: 11:02:55

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 40-100R
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.005218$ cm/sec
 $y_0 = 2.858$ ft

AQUIFER DATA

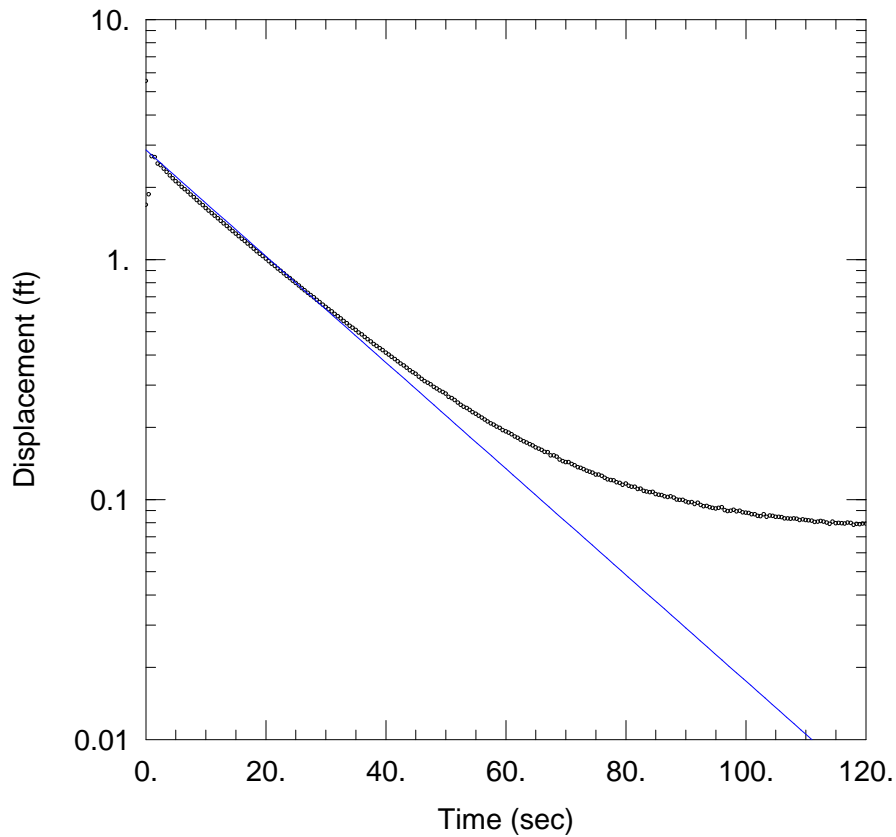
Saturated Thickness: 6.63 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-100R)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 6.63 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 86.45 ft
 Screen Length: 3.13 ft
 Well Radius: 0.333 ft



40-100R RISING HEAD TEST 3

Data Set: N:\...\40-100R-RH3.aqt
 Date: 05/06/13 Time: 11:02:42

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 40-100R
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.005218$ cm/sec
 $y_0 = 2.858$ ft

AQUIFER DATA

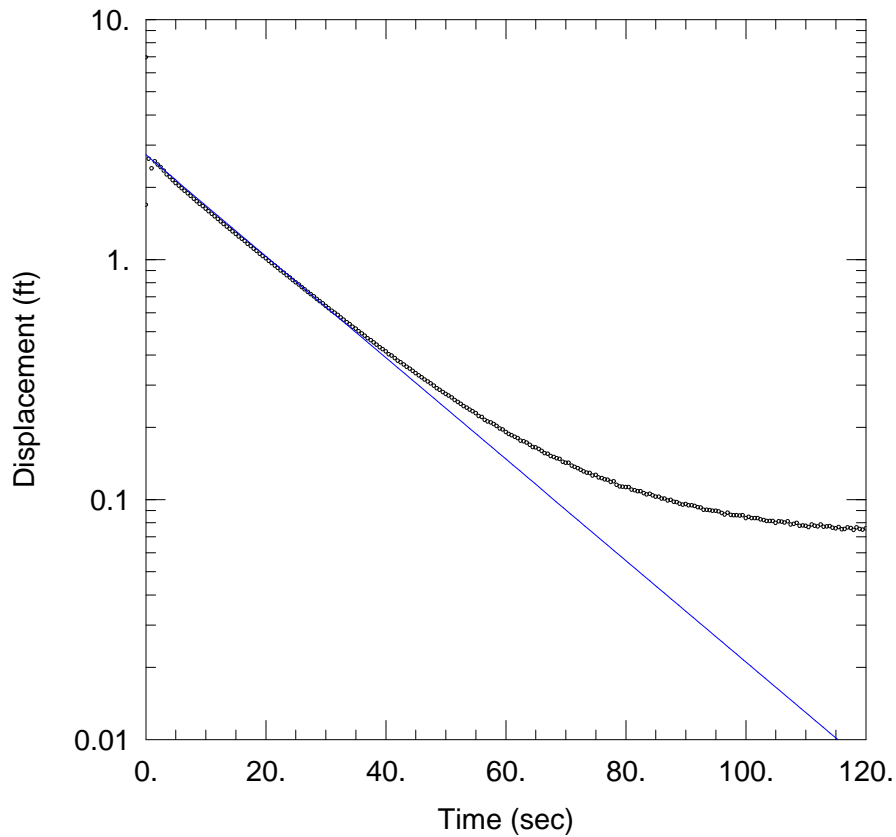
Saturated Thickness: 6.63 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-100R)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 6.63 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 86.45 ft
 Screen Length: 3.13 ft
 Well Radius: 0.333 ft



40-100R RISING HEAD TEST 4

Data Set: N:\...\40-100R-RH4.aqt
 Date: 05/06/13 Time: 11:02:29

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 40-100R
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.004983$ cm/sec
 $y_0 = 2.73$ ft

AQUIFER DATA

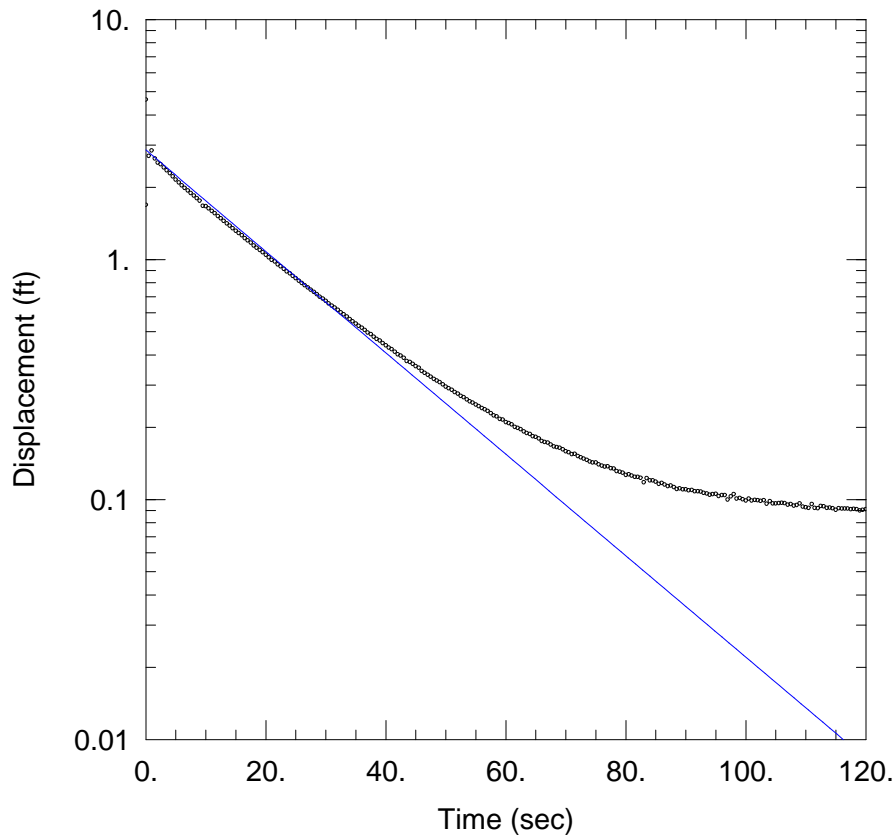
Saturated Thickness: 6.63 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-100R)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 6.63 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 86.45 ft
 Screen Length: 3.13 ft
 Well Radius: 0.333 ft



40-100R RISING HEAD TEST 5

Data Set: N:\...\40-100R-RH5.aqt
 Date: 05/06/13 Time: 11:02:17

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 40-100R
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.004983$ cm/sec
 $y_0 = 2.858$ ft

AQUIFER DATA

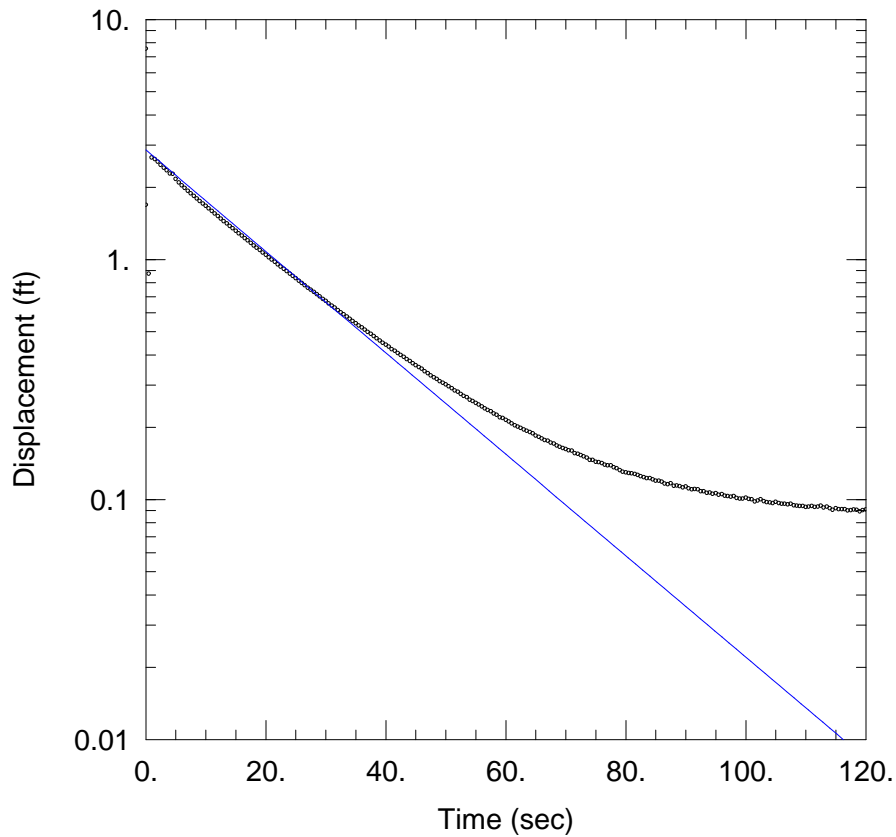
Saturated Thickness: 6.63 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-100R)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 6.63 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 86.45 ft
 Screen Length: 3.13 ft
 Well Radius: 0.333 ft



40-100R RISING HEAD TEST 6

Data Set: N:\...\40-100R-RH6.aqt
 Date: 05/06/13 Time: 11:02:03

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 40-100R
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.004983$ cm/sec
 $y_0 = 2.858$ ft

AQUIFER DATA

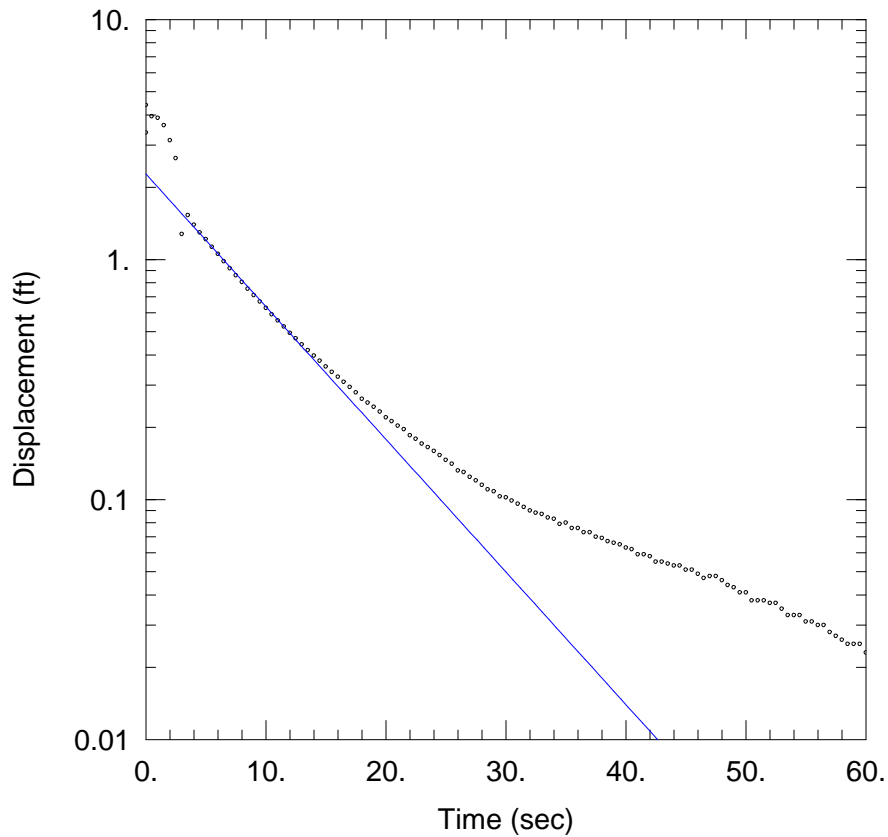
Saturated Thickness: 6.63 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-100R)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 6.63 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 86.45 ft
 Screen Length: 3.13 ft
 Well Radius: 0.333 ft



40-25 FALLING HEAD TEST 1

Data Set: N:\...\40-25-FH1.aqt

Date: 05/06/13

Time: 09:54:10

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 40-25

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.0361$ cm/sec

$y_0 = 2.271$ ft

AQUIFER DATA

Saturated Thickness: 4.47 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-25)

Initial Displacement: 3.375 ft

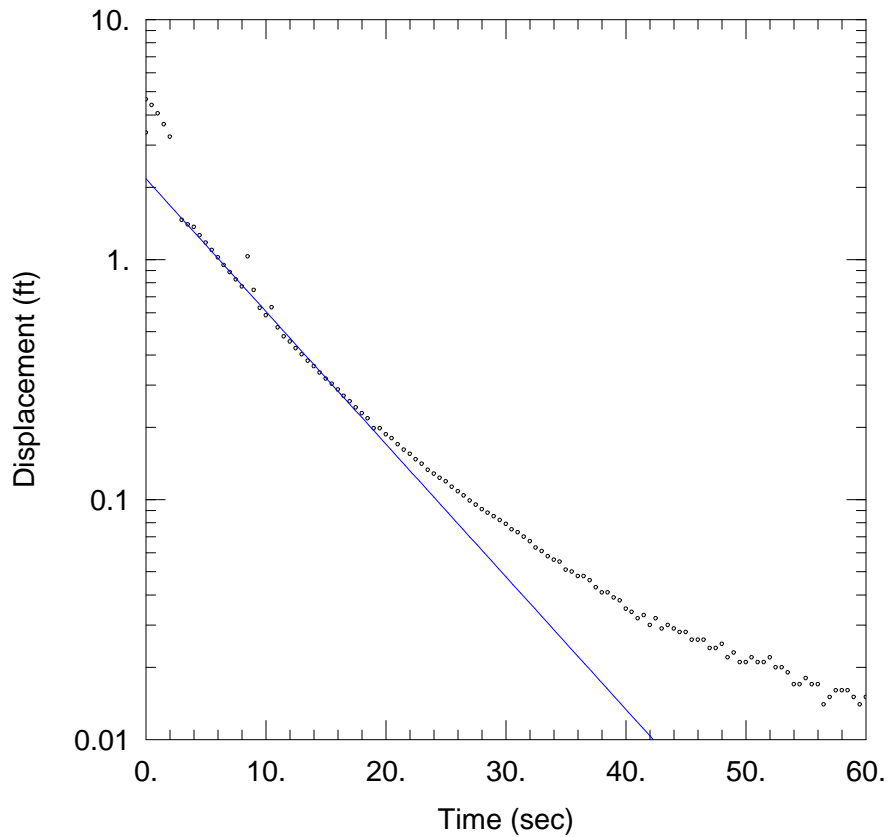
Total Well Penetration Depth: 4.47 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 11.08 ft

Screen Length: 0.97 ft

Well Radius: 0.25 ft



40-25 FALLING HEAD TEST 2

Data Set: N:\...\40-25-FH2.aqt

Date: 05/06/13

Time: 09:53:56

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 40-25

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.0361$ cm/sec

$y_0 = 2.168$ ft

AQUIFER DATA

Saturated Thickness: 4.47 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-25)

Initial Displacement: 3.375 ft

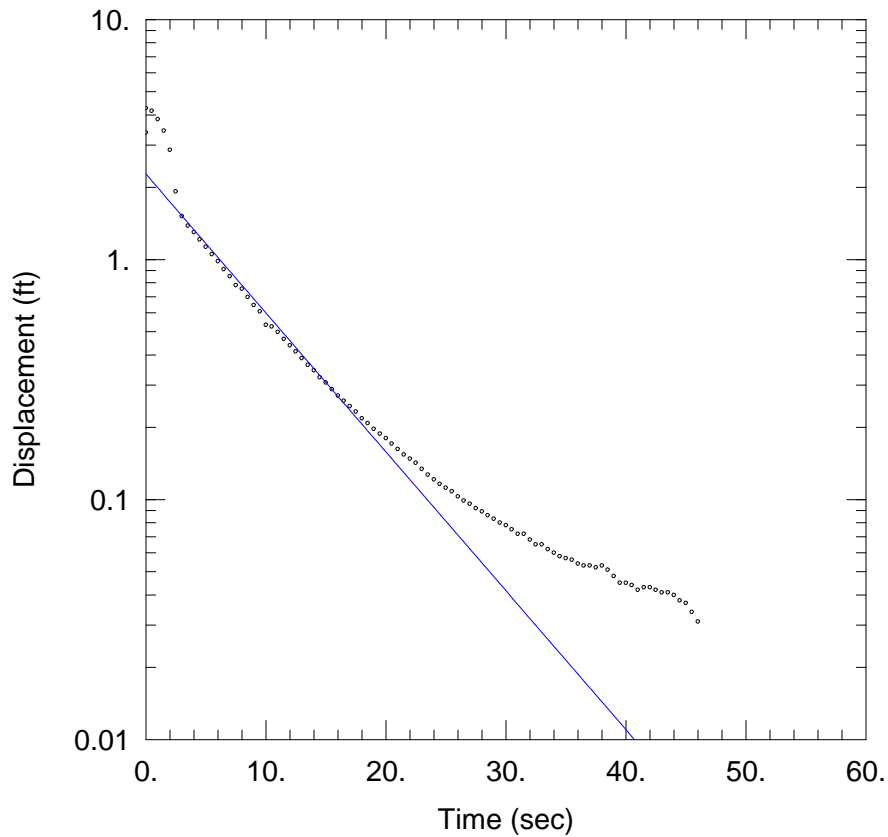
Total Well Penetration Depth: 4.47 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 11.08 ft

Screen Length: 0.97 ft

Well Radius: 0.25 ft



40-25 FALLING HEAD TEST 3

Data Set: N:\...\40-25-FH3.aqt

Date: 05/06/13

Time: 09:53:40

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 40-25

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0378 cm/sec

y0 = 2.271 ft

AQUIFER DATA

Saturated Thickness: 4.47 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (40-25)

Initial Displacement: 3.375 ft

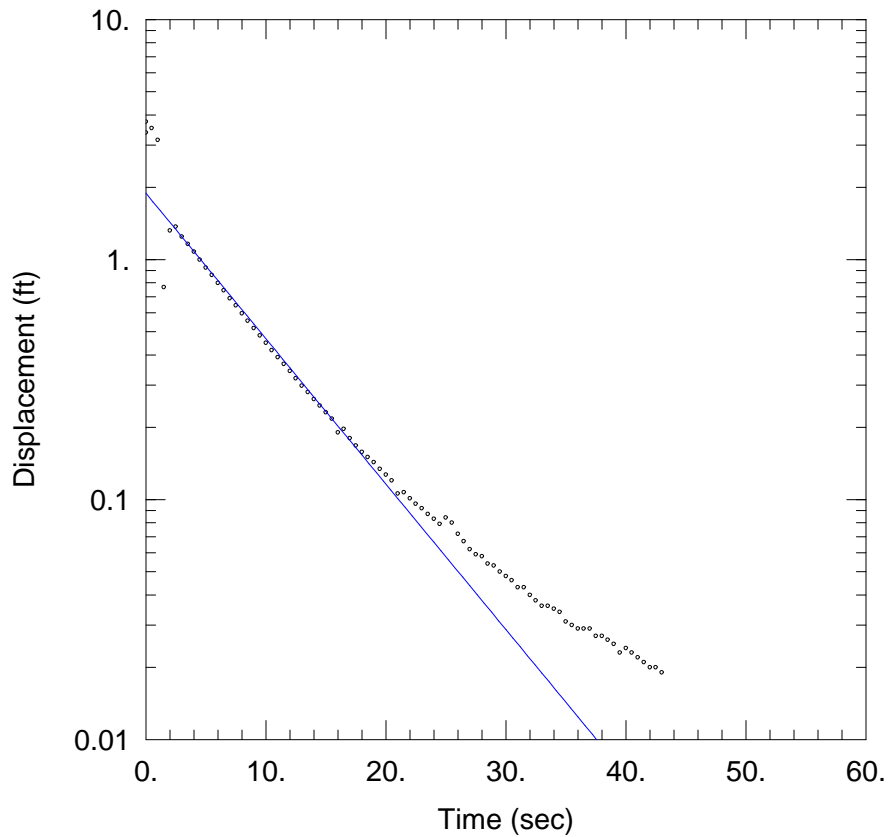
Total Well Penetration Depth: 4.47 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 11.08 ft

Screen Length: 0.97 ft

Well Radius: 0.25 ft



40-25 FALLING HEAD TEST 4

Data Set: N:\...\40-25-FH4.aqt

Date: 05/06/13

Time: 09:53:28

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 40-25

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.03958 cm/sec

y0 = 1.889 ft

AQUIFER DATA

Saturated Thickness: 4.47 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (40-25)

Initial Displacement: 3.375 ft

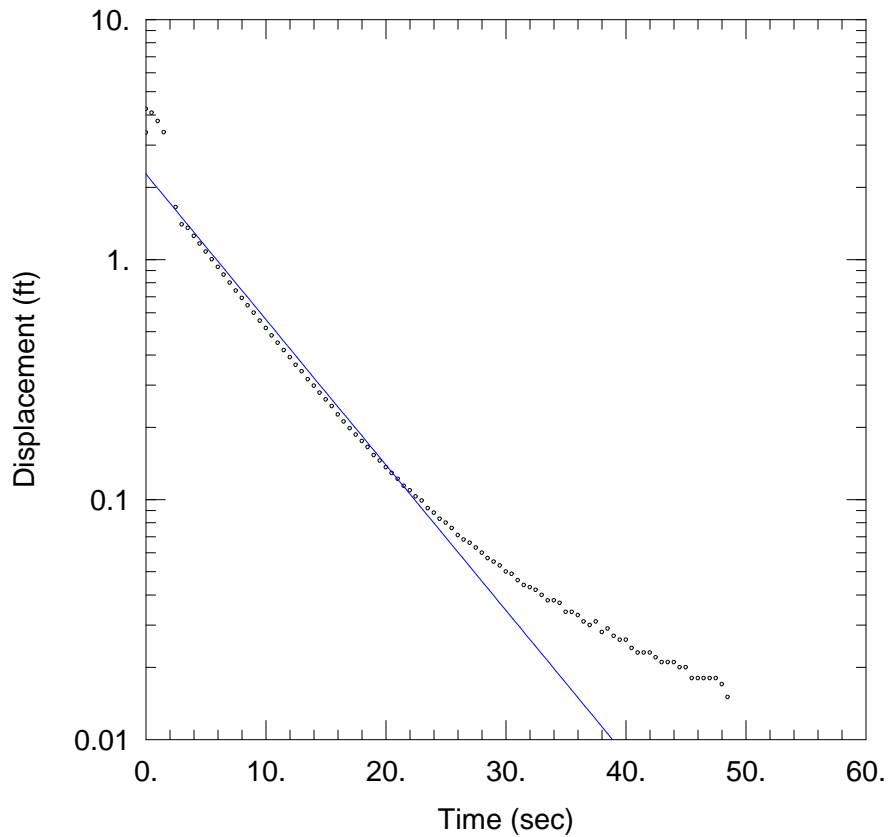
Total Well Penetration Depth: 4.47 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 11.08 ft

Screen Length: 0.97 ft

Well Radius: 0.25 ft



40-25 FALLING HEAD TEST 5

Data Set: N:\...\40-25-FH5.aqt

Date: 05/06/13

Time: 09:53:15

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 40-25

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.03958$ cm/sec

$y_0 = 2.271$ ft

AQUIFER DATA

Saturated Thickness: 4.47 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-25)

Initial Displacement: 3.375 ft

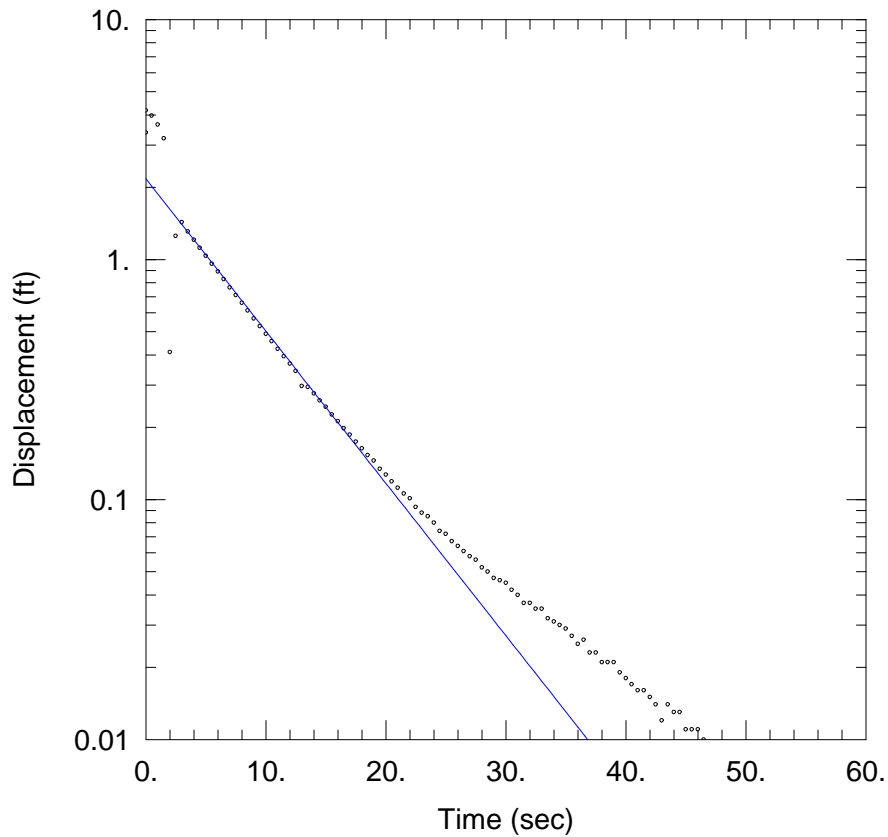
Total Well Penetration Depth: 4.47 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 11.08 ft

Screen Length: 0.97 ft

Well Radius: 0.25 ft



40-25 FALLING HEAD TEST 6

Data Set: N:\...\40-25-FH6.aqt

Date: 05/06/13

Time: 09:53:02

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 40-25

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.04145 cm/sec

y0 = 2.168 ft

AQUIFER DATA

Saturated Thickness: 4.47 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (40-25)

Initial Displacement: 3.375 ft

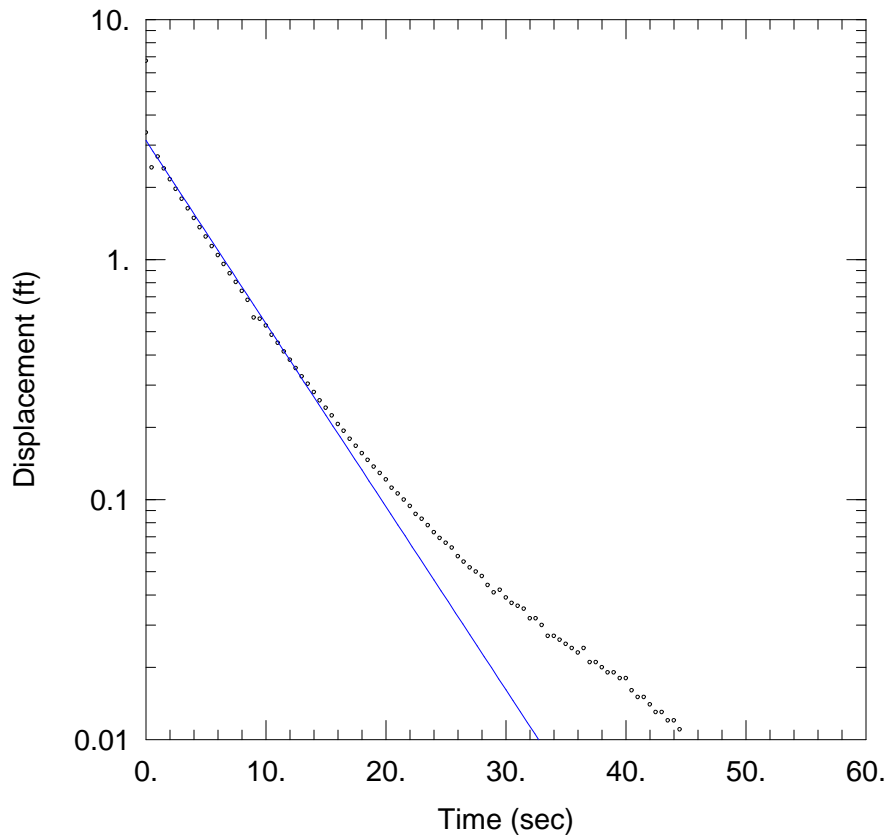
Total Well Penetration Depth: 4.47 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 11.08 ft

Screen Length: 0.97 ft

Well Radius: 0.25 ft



40-25 RISING HEAD TEST 1

Data Set: N:\...\40-25-RH1.aqt

Date: 05/06/13

Time: 10:04:01

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 40-25

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.04983 cm/sec

y0 = 3.134 ft

AQUIFER DATA

Saturated Thickness: 4.47 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (40-25)

Initial Displacement: 3.375 ft

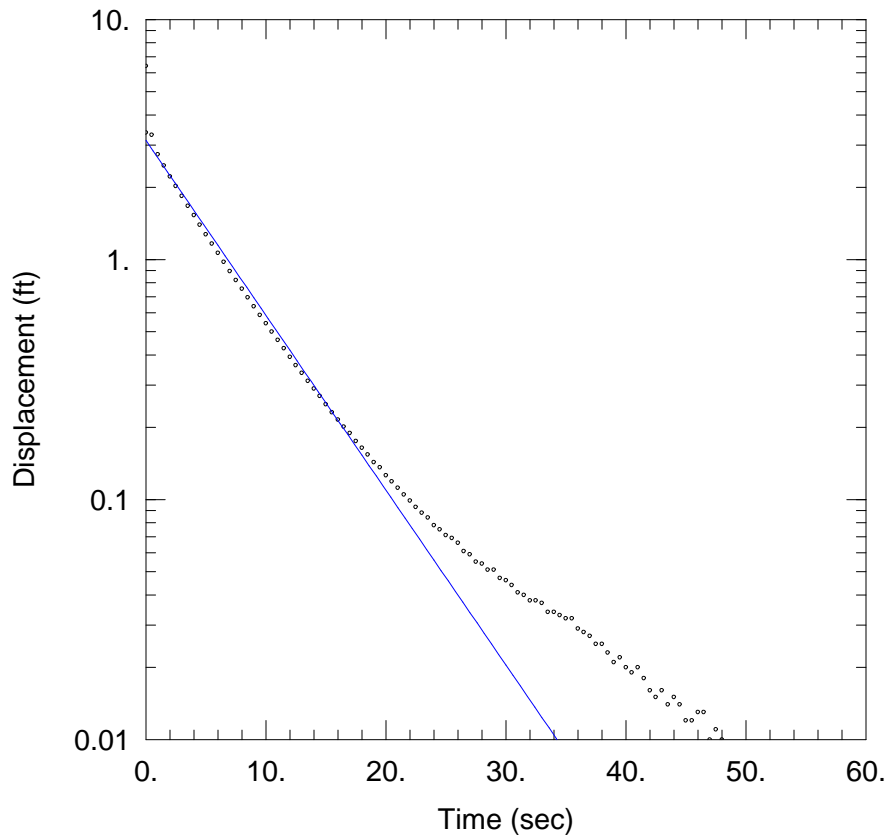
Total Well Penetration Depth: 4.47 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 11.08 ft

Screen Length: 0.97 ft

Well Radius: 0.25 ft



40-25 RISING HEAD TEST 2

Data Set: N:\...\40-25-RH2.aqt
 Date: 05/06/13 Time: 10:03:47

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 40-25
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.04759$ cm/sec
 $y_0 = 3.134$ ft

AQUIFER DATA

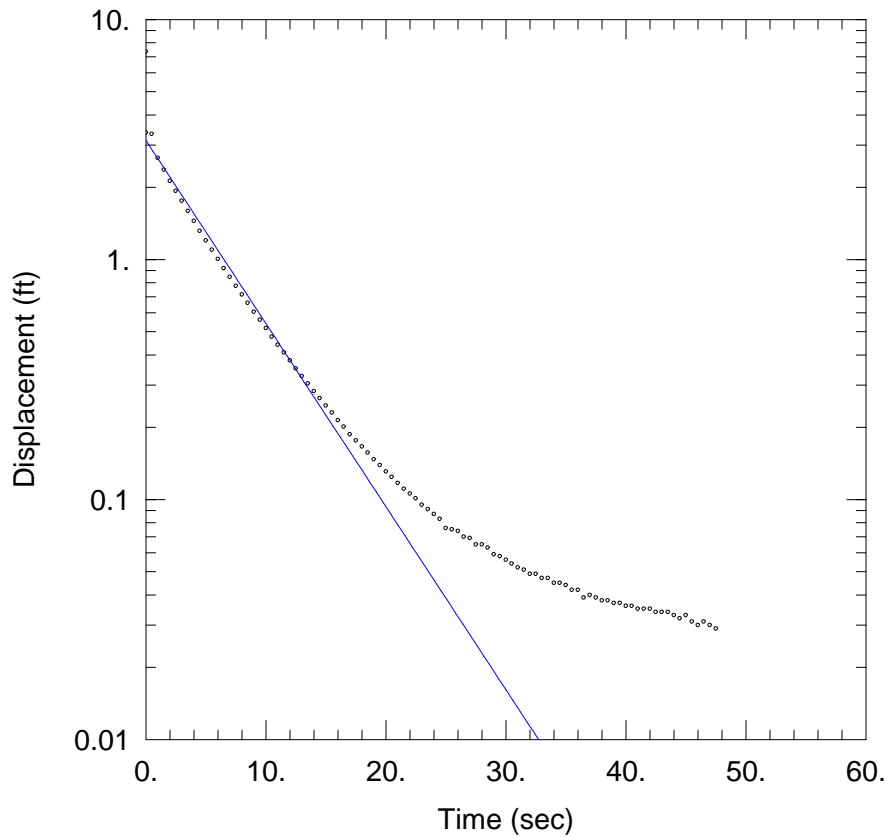
Saturated Thickness: 4.47 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-25)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 4.47 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 11.08 ft
 Screen Length: 0.97 ft
 Well Radius: 0.25 ft



40-25 RISING HEAD TEST 3

Data Set: N:\...\40-25-RH3.aqt
 Date: 05/06/13 Time: 10:03:34

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 40-25
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.04983$ cm/sec
 $y_0 = 3.134$ ft

AQUIFER DATA

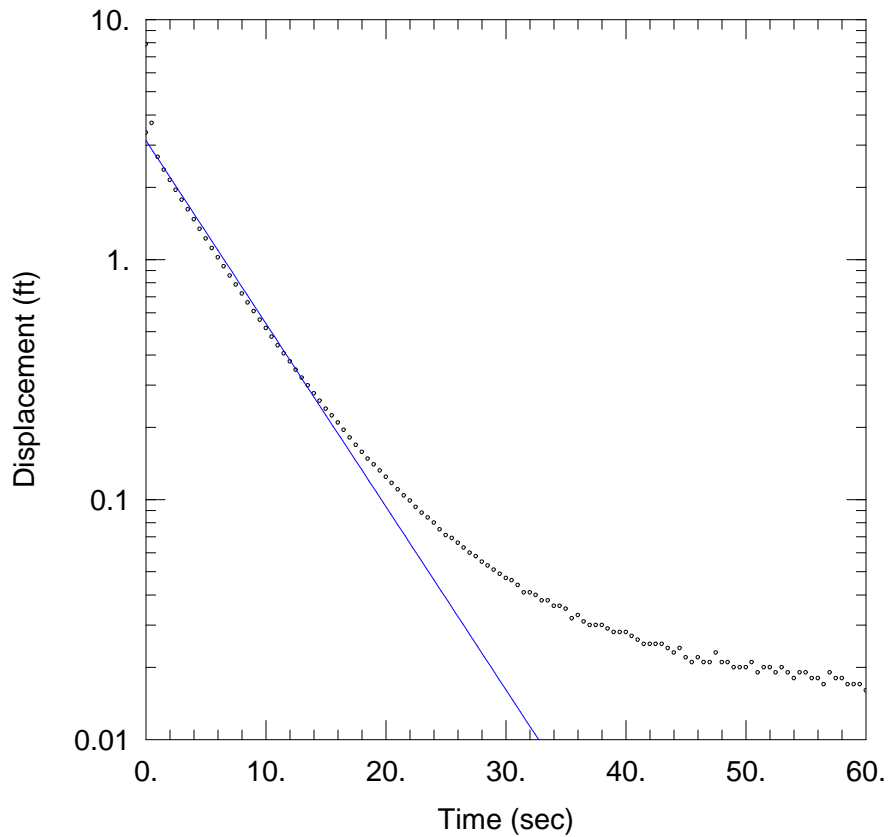
Saturated Thickness: 4.47 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-25)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 4.47 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 11.08 ft
 Screen Length: 0.97 ft
 Well Radius: 0.25 ft



40-25 RISING HEAD TEST 4

Data Set: N:\...\40-25-RH4.aqt
 Date: 05/06/13 Time: 10:03:21

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 40-25
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.04983$ cm/sec
 $y_0 = 3.134$ ft

AQUIFER DATA

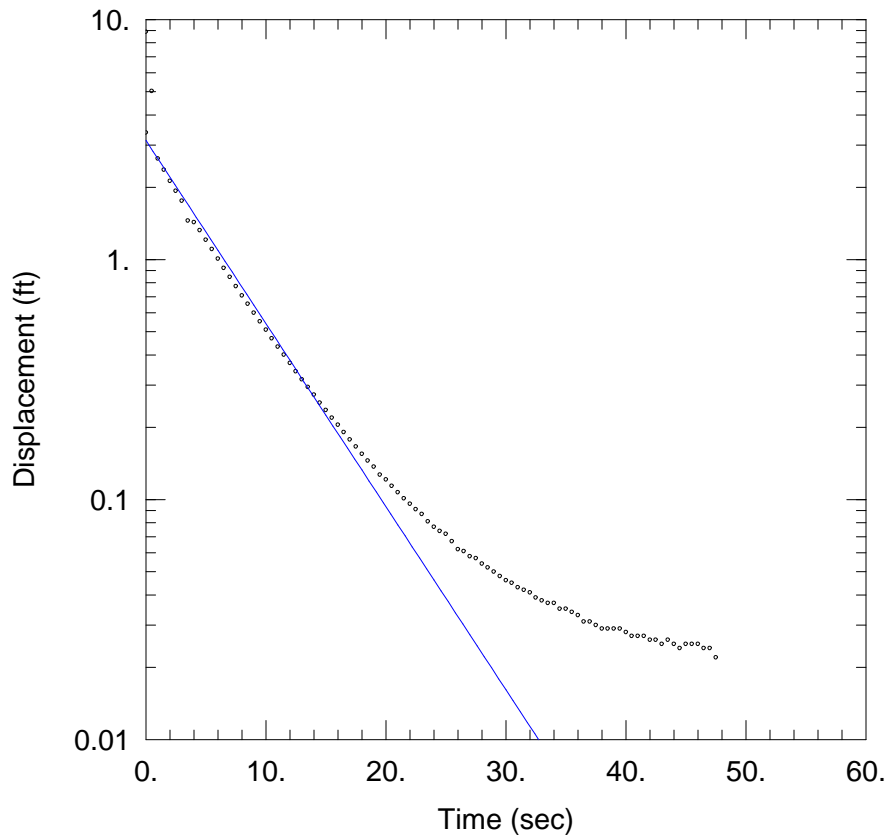
Saturated Thickness: 4.47 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-25)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 4.47 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 11.08 ft
 Screen Length: 0.97 ft
 Well Radius: 0.25 ft



40-25 RISING HEAD TEST 5

Data Set: N:\...\40-25-RH5.aqt

Date: 05/06/13

Time: 10:03:06

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 40-25

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.04983$ cm/sec

$y_0 = 3.134$ ft

AQUIFER DATA

Saturated Thickness: 4.47 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-25)

Initial Displacement: 3.375 ft

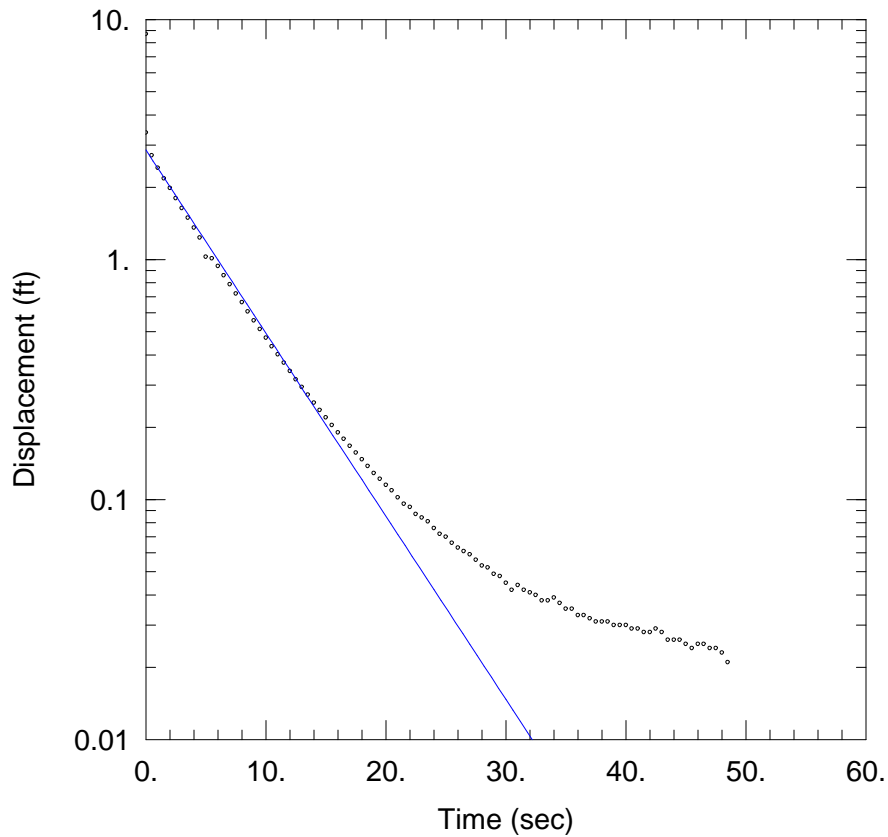
Total Well Penetration Depth: 4.47 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 11.08 ft

Screen Length: 0.97 ft

Well Radius: 0.25 ft



40-25 RISING HEAD TEST 6

Data Set: N:\...\40-25-RH6.aqt
 Date: 05/06/13 Time: 10:02:53

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 40-25
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.04983$ cm/sec
 $y_0 = 2.858$ ft

AQUIFER DATA

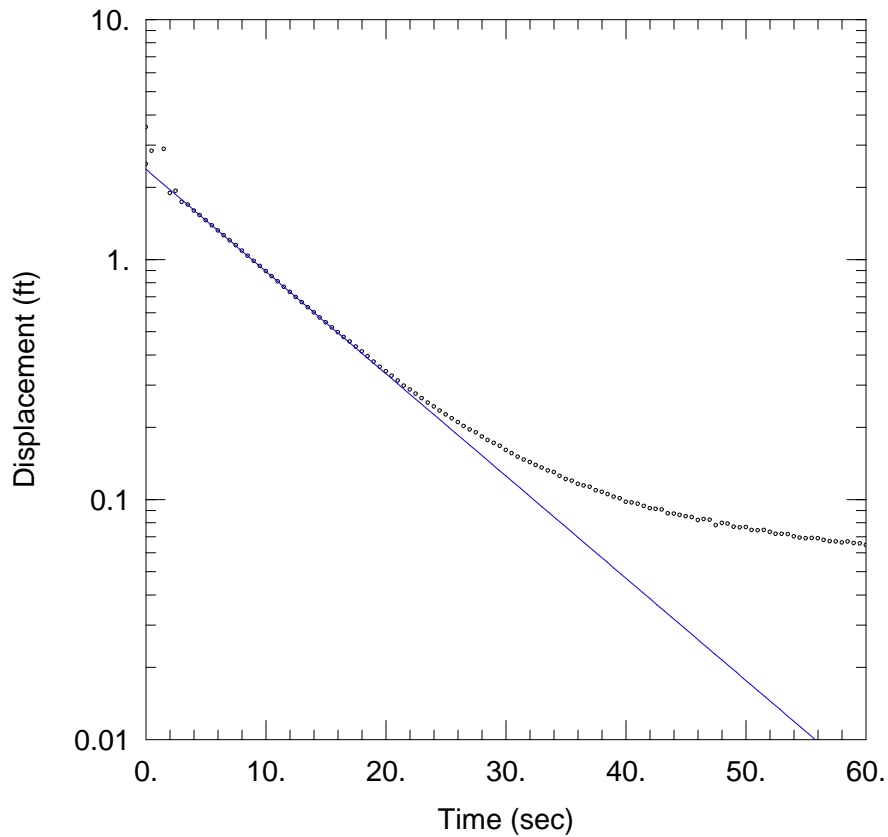
Saturated Thickness: 4.47 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-25)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 4.47 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 11.08 ft
 Screen Length: 0.97 ft
 Well Radius: 0.25 ft



40-50 FALLING HEAD TEST 1

Data Set: N:\...\40-50-FH1.aqt

Date: 05/06/13

Time: 10:19:18

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 40-50

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.02278 cm/sec

y0 = 2.378 ft

AQUIFER DATA

Saturated Thickness: 4.81 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (40-50)

Initial Displacement: 2.5 ft

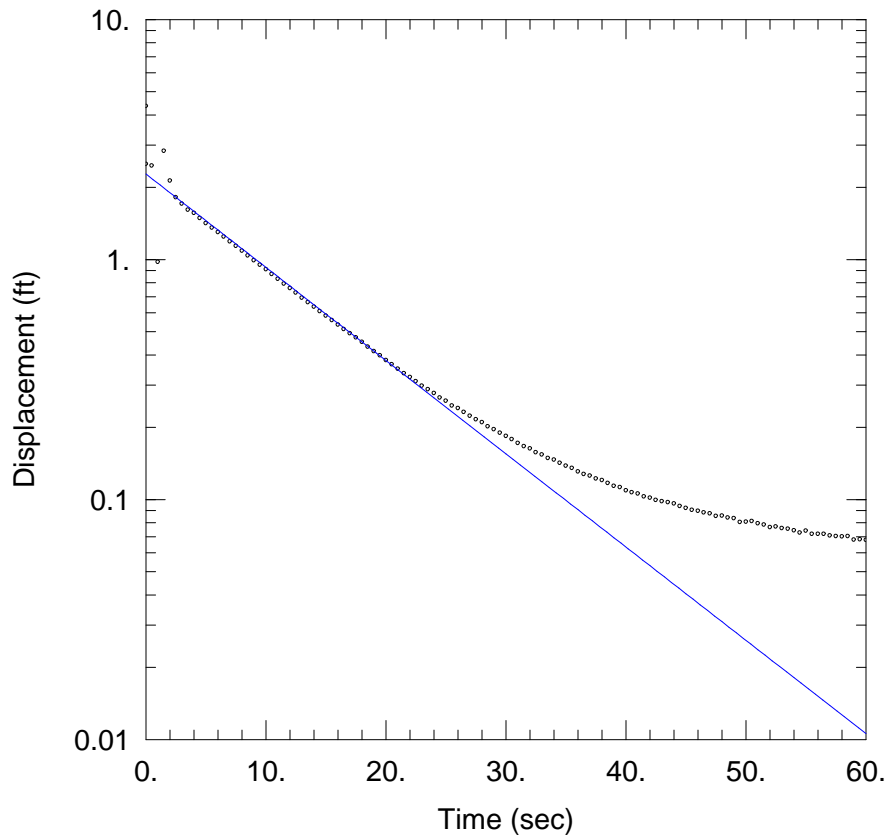
Total Well Penetration Depth: 4.81 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 33.82 ft

Screen Length: 1.11 ft

Well Radius: 0.333 ft



40-50 FALLING HEAD TEST 2

Data Set: N:\...\40-50-FH2.aqt
 Date: 05/06/13 Time: 10:19:04

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 40-50
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.02077$ cm/sec
 $y_0 = 2.271$ ft

AQUIFER DATA

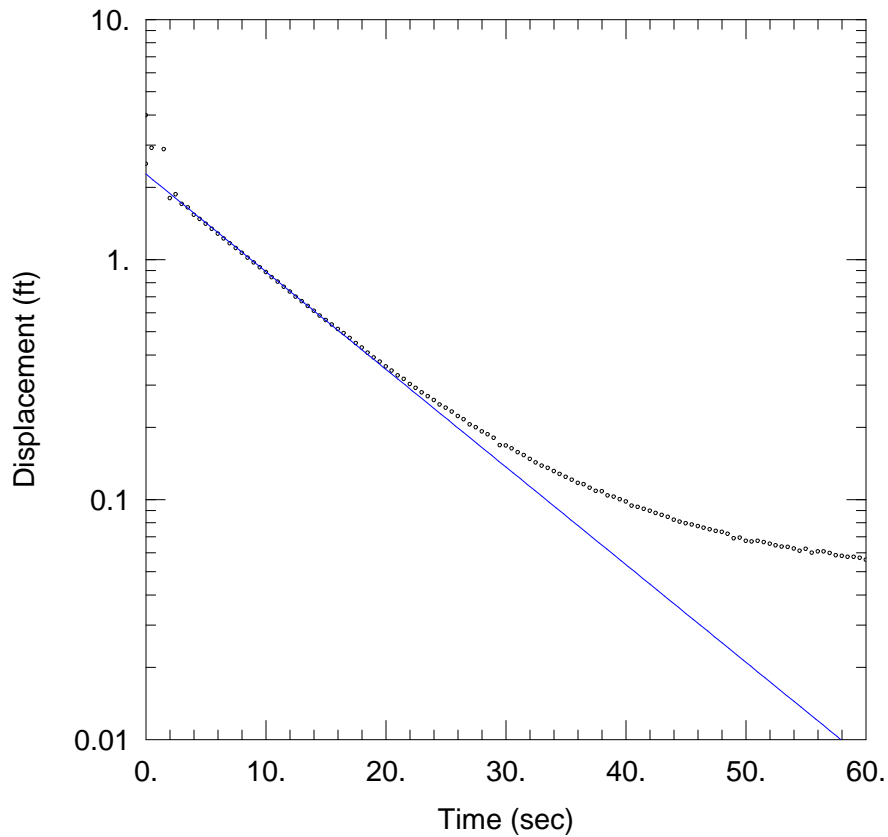
Saturated Thickness: 4.81 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-50)

Initial Displacement: 2.5 ft
 Total Well Penetration Depth: 4.81 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 33.82 ft
 Screen Length: 1.11 ft
 Well Radius: 0.333 ft



40-50 FALLING HEAD TEST 3

Data Set: N:\...\40-50-FH3.aqt
 Date: 05/06/13 Time: 10:18:51

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 40-50
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.02175$ cm/sec
 $y_0 = 2.271$ ft

AQUIFER DATA

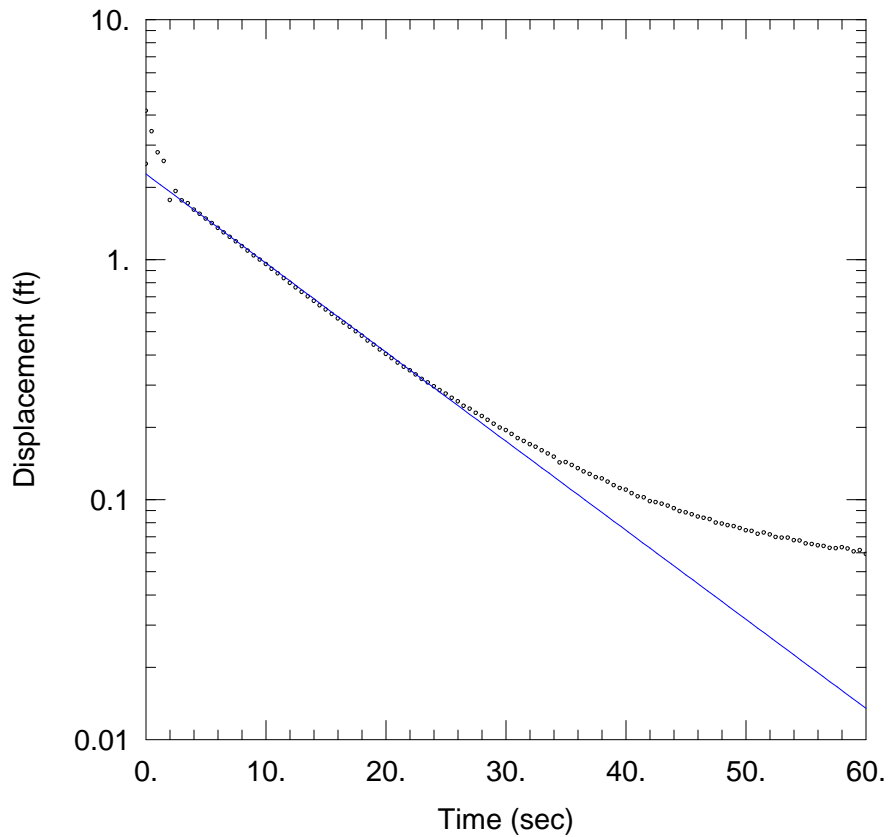
Saturated Thickness: 4.81 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-50)

Initial Displacement: 2.5 ft
 Total Well Penetration Depth: 4.81 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 33.82 ft
 Screen Length: 1.11 ft
 Well Radius: 0.333 ft



40-50 FALLING HEAD TEST 4

Data Set: N:\...\40-50-FH4.aqt

Date: 05/06/13

Time: 10:18:37

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 40-50

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.01984$ cm/sec

$y_0 = 2.271$ ft

AQUIFER DATA

Saturated Thickness: 4.81 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-50)

Initial Displacement: 2.5 ft

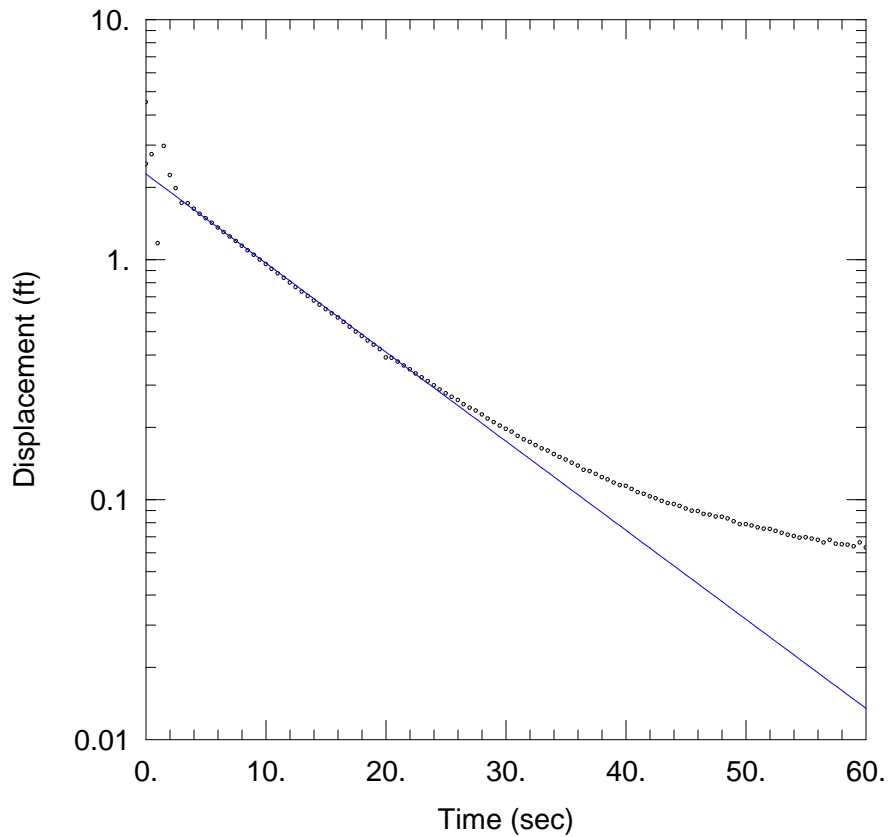
Total Well Penetration Depth: 4.81 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 33.82 ft

Screen Length: 1.11 ft

Well Radius: 0.333 ft



40-50 FALLING HEAD TEST 5

Data Set: N:\...\40-50-FH5.aqt

Date: 05/06/13

Time: 10:18:24

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 40-50

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.01984$ cm/sec

$y_0 = 2.271$ ft

AQUIFER DATA

Saturated Thickness: 4.81 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-50)

Initial Displacement: 2.5 ft

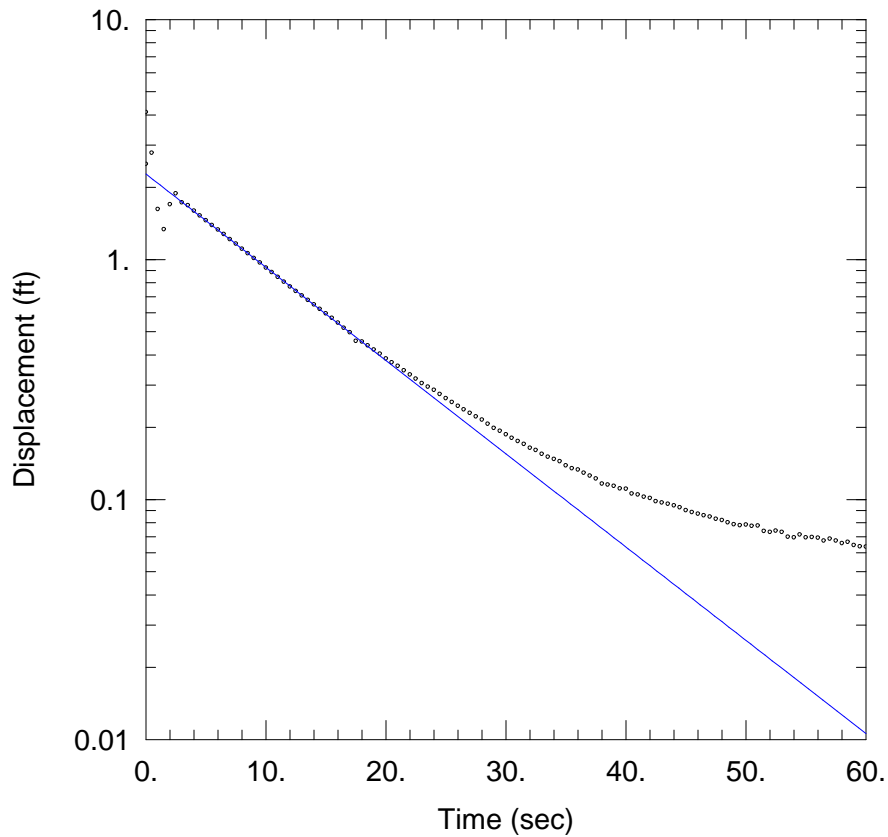
Total Well Penetration Depth: 4.81 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 33.82 ft

Screen Length: 1.11 ft

Well Radius: 0.333 ft



40-50 FALLING HEAD TEST 6

Data Set: N:\...\40-50-FH6.aqt

Date: 05/06/13

Time: 10:18:10

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 40-50

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.02077$ cm/sec

$y_0 = 2.271$ ft

AQUIFER DATA

Saturated Thickness: 4.81 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-50)

Initial Displacement: 2.5 ft

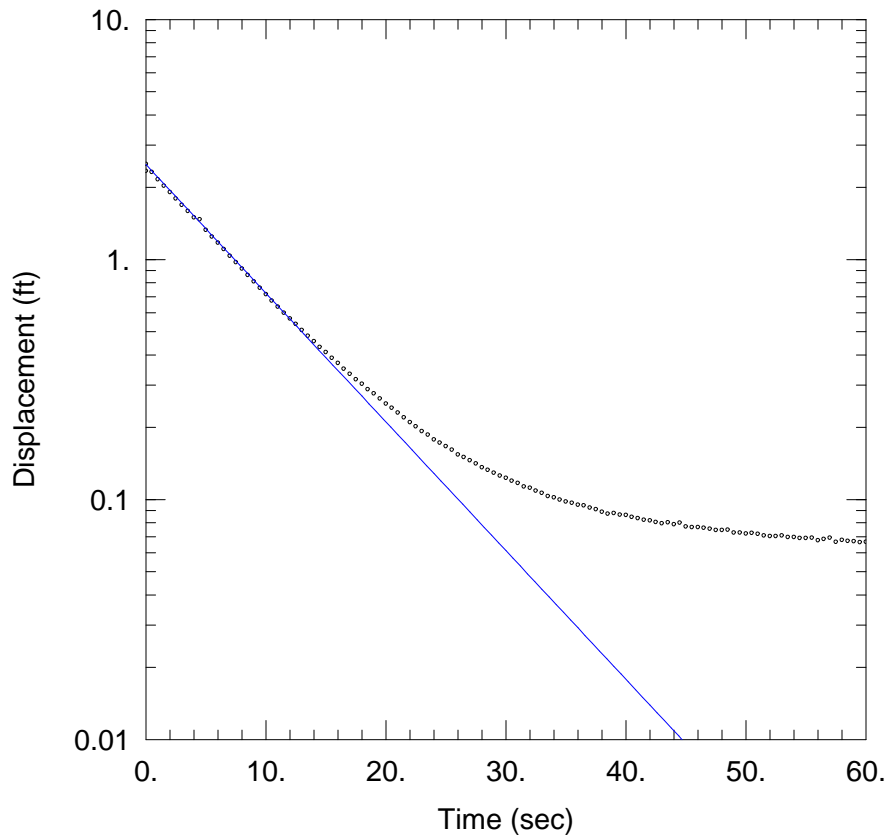
Total Well Penetration Depth: 4.81 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 33.82 ft

Screen Length: 1.11 ft

Well Radius: 0.333 ft



40-50 RISING HEAD TEST 1

Data Set: N:\...\40-50-RH1.aqt
 Date: 05/06/13 Time: 10:26:23

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 40-50
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.02868$ cm/sec
 $y_0 = 2.49$ ft

AQUIFER DATA

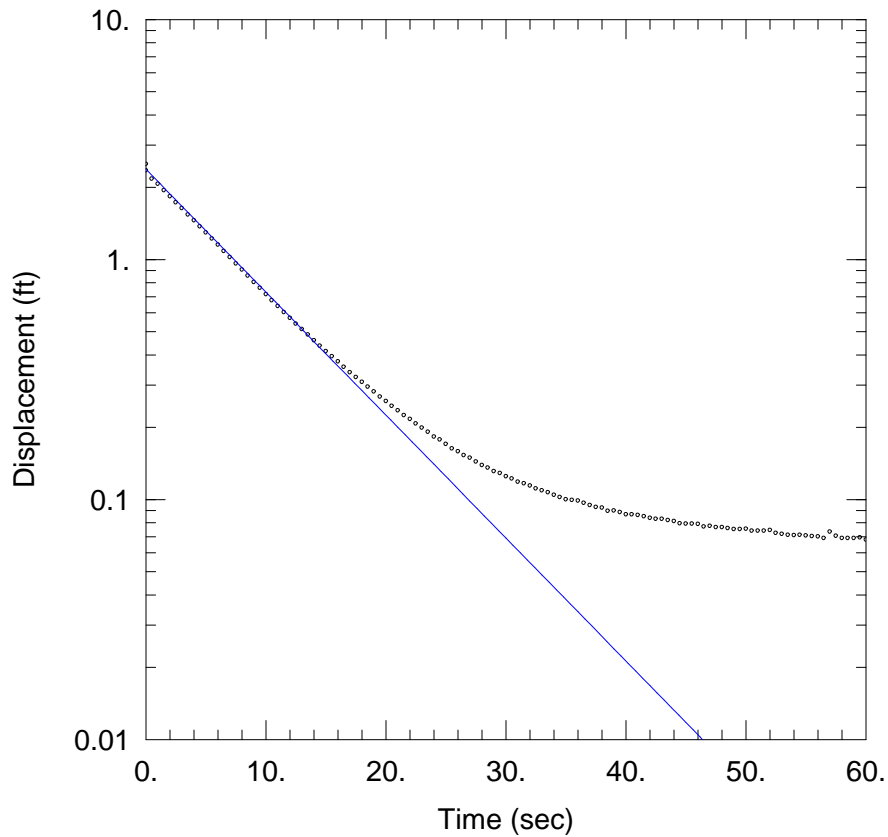
Saturated Thickness: 4.81 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-50)

Initial Displacement: 2.5 ft
 Total Well Penetration Depth: 4.81 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 33.82 ft
 Screen Length: 1.11 ft
 Well Radius: 0.333 ft



40-50 RISING HEAD TEST 2

Data Set: N:\...\40-50-RH2.aqt
 Date: 05/06/13 Time: 10:26:10

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 40-50
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.02739$ cm/sec
 $y_0 = 2.378$ ft

AQUIFER DATA

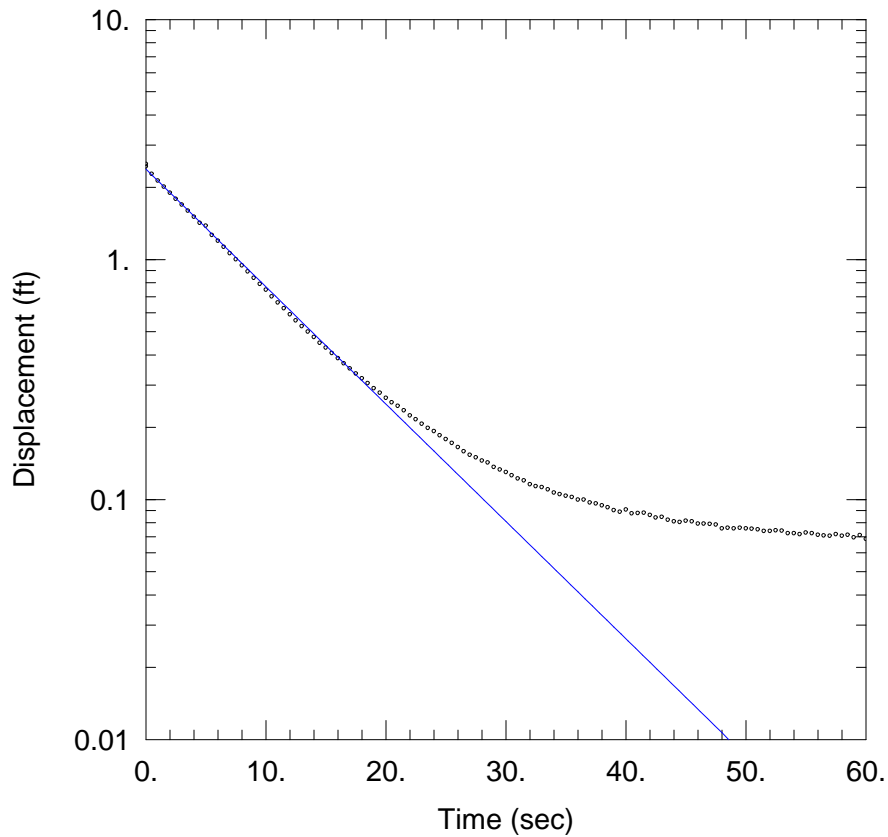
Saturated Thickness: 4.81 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-50)

Initial Displacement: 2.5 ft
 Total Well Penetration Depth: 4.81 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 33.82 ft
 Screen Length: 1.11 ft
 Well Radius: 0.333 ft



40-50 RISING HEAD TEST 3

Data Set: N:\...\40-50-RH3.aqt

Date: 05/06/13

Time: 10:25:56

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 40-50

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.02615 cm/sec

y0 = 2.378 ft

AQUIFER DATA

Saturated Thickness: 4.81 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (40-50)

Initial Displacement: 2.5 ft

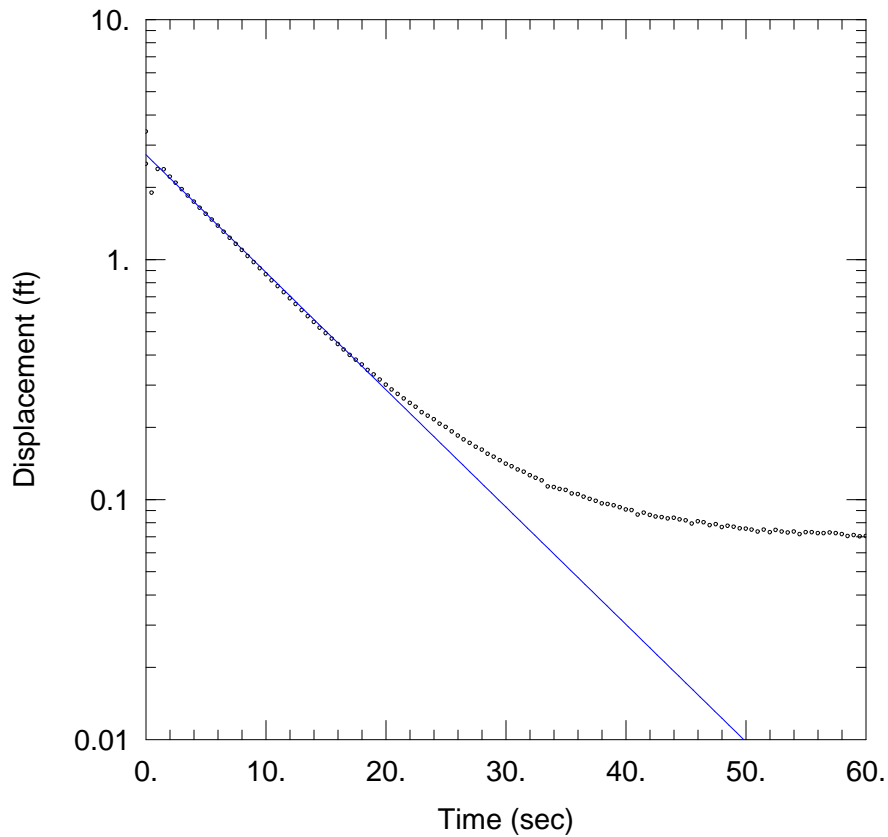
Total Well Penetration Depth: 4.81 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 33.82 ft

Screen Length: 1.11 ft

Well Radius: 0.333 ft



40-50 RISING HEAD TEST 4

Data Set: N:\...\40-50-RH4.aqt
 Date: 05/06/13 Time: 10:25:43

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 40-50
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.02615$ cm/sec
 $y_0 = 2.73$ ft

AQUIFER DATA

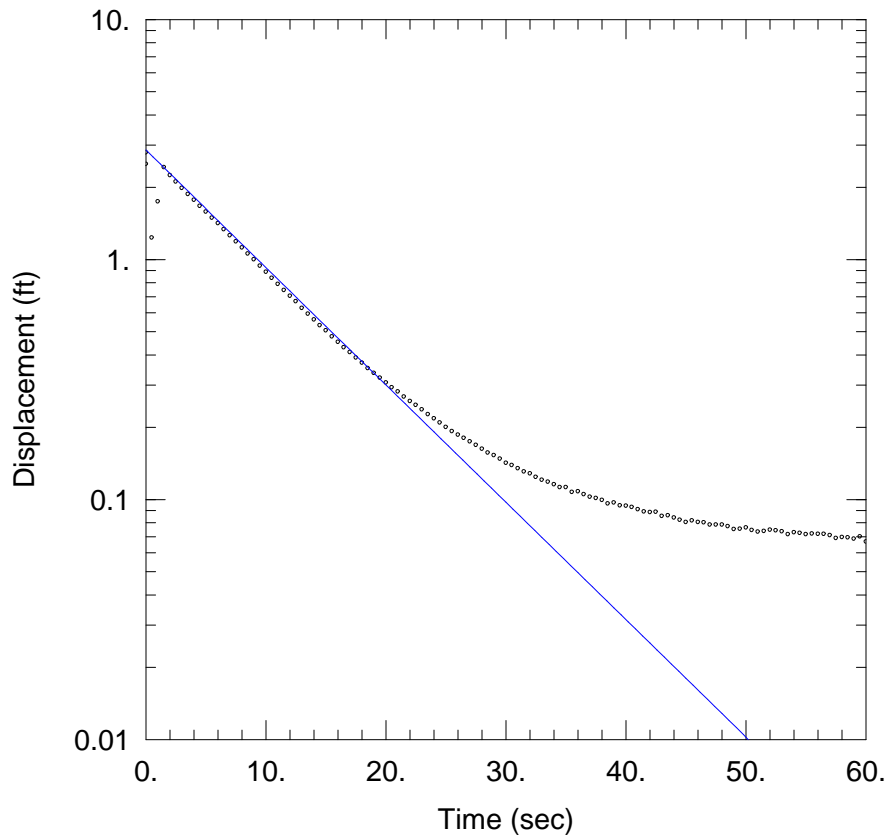
Saturated Thickness: 4.81 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-50)

Initial Displacement: 2.5 ft
 Total Well Penetration Depth: 4.81 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 33.82 ft
 Screen Length: 1.11 ft
 Well Radius: 0.333 ft



40-50 RISING HEAD TEST 5

Data Set: N:\...\40-50-RH5.aqt
 Date: 05/06/13 Time: 10:25:29

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 40-50
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.02615$ cm/sec
 $y_0 = 2.858$ ft

AQUIFER DATA

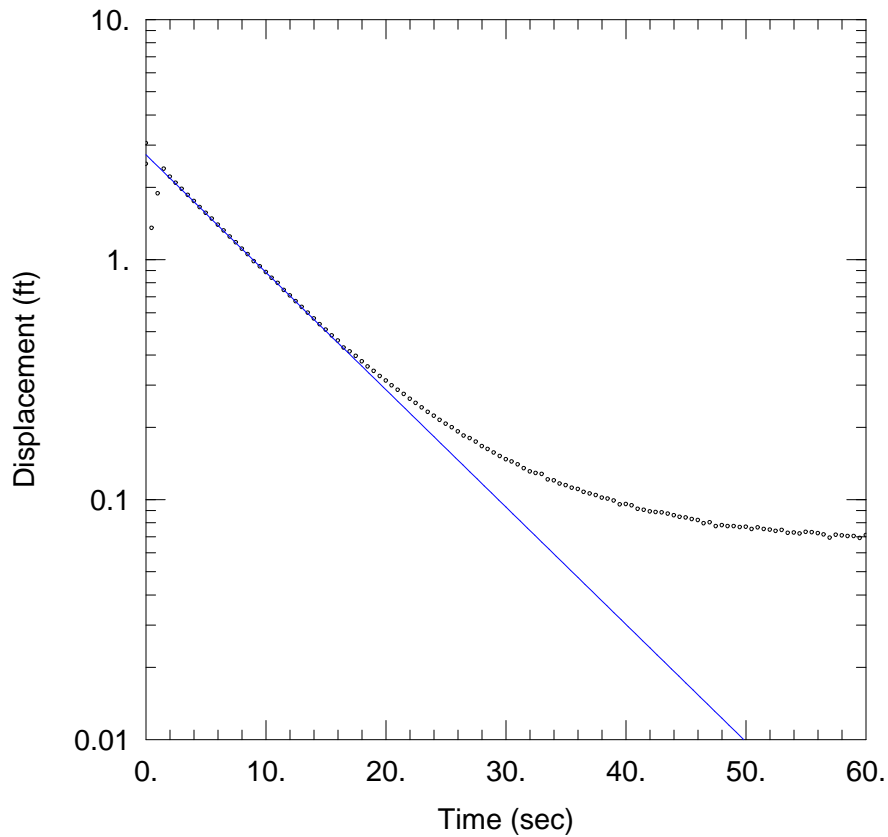
Saturated Thickness: 4.81 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-50)

Initial Displacement: 2.5 ft
 Total Well Penetration Depth: 4.81 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 33.82 ft
 Screen Length: 1.11 ft
 Well Radius: 0.333 ft



40-50 RISING HEAD TEST 6

Data Set: N:\...\40-50-RH6.aqt

Date: 05/06/13

Time: 10:25:17

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 40-50

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.02615$ cm/sec

$y_0 = 2.73$ ft

AQUIFER DATA

Saturated Thickness: 4.81 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-50)

Initial Displacement: 2.5 ft

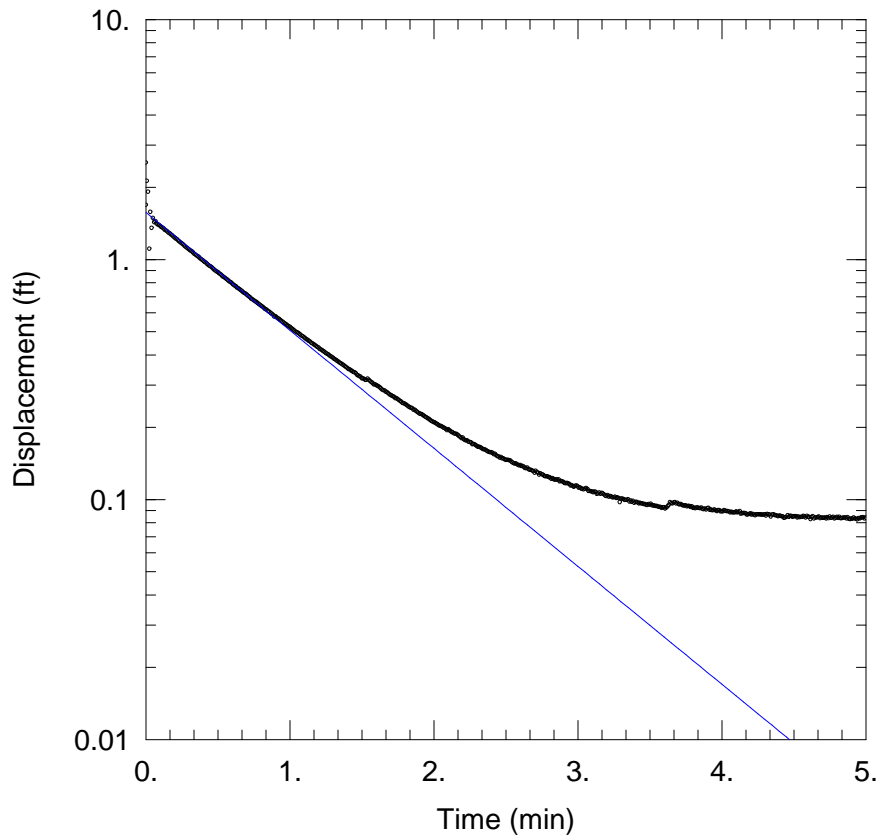
Total Well Penetration Depth: 4.81 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 33.82 ft

Screen Length: 1.11 ft

Well Radius: 0.333 ft



40-75 FALLING HEAD TEST 1

Data Set: N:\...\40-75-FH1.aqt
 Date: 05/06/13 Time: 10:38:50

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 40-75
 Test Date: February 1, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.001316 cm/sec
 y0 = 1.571 ft

AQUIFER DATA

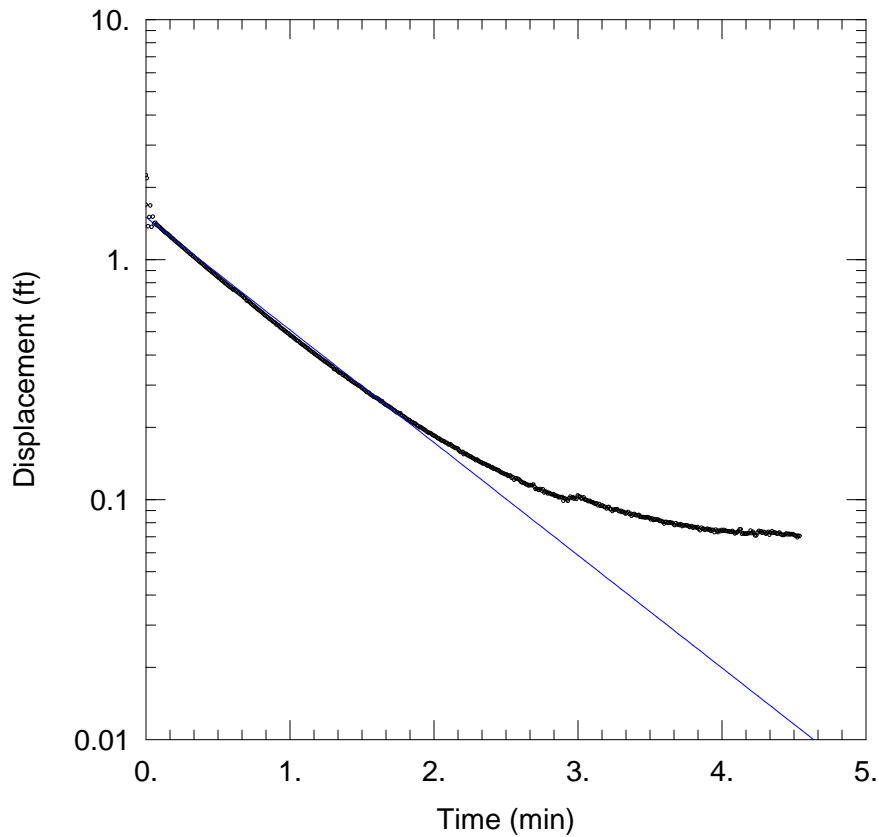
Saturated Thickness: 9.7 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (40-75)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 9.1 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 65.03 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



40-75 FALLING HEAD TEST 2

Data Set: N:\...\40-75-FH2.aqt
 Date: 05/06/13 Time: 10:38:23

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 40-75
 Test Date: February 1, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.001257 cm/sec
 y0 = 1.5 ft

AQUIFER DATA

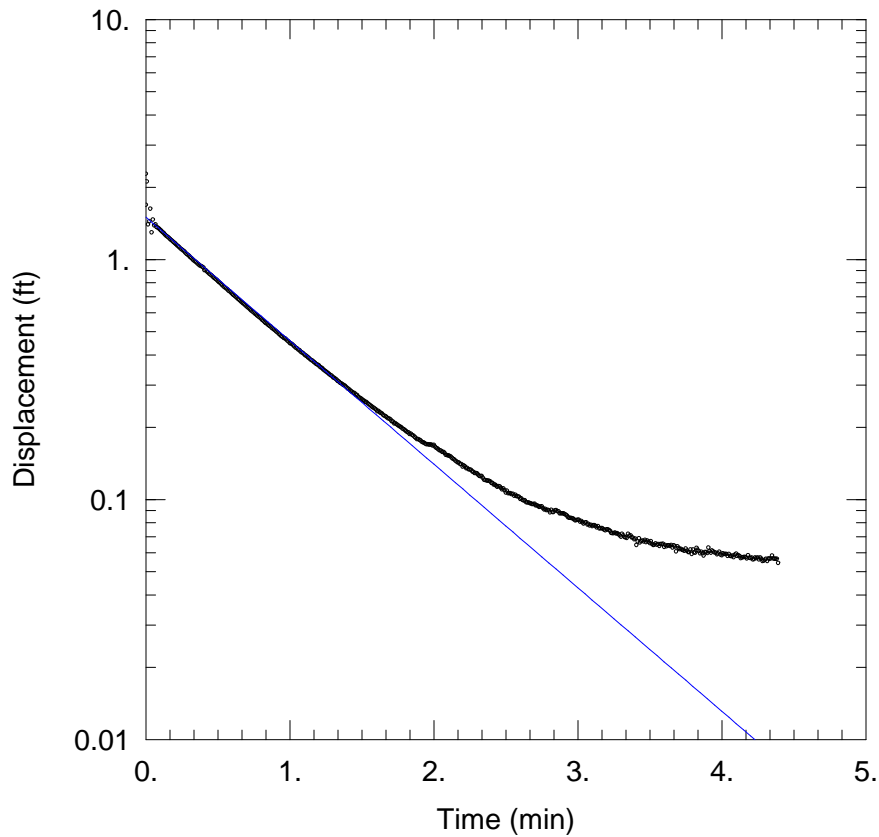
Saturated Thickness: 9.7 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (40-75)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 9.1 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 65.03 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



40-75 FALLING HEAD TEST 3

Data Set: N:\...\40-75-FH3.aqt
 Date: 05/06/13 Time: 10:38:01

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 40-75
 Test Date: February 1, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.001378 cm/sec
 y0 = 1.5 ft

AQUIFER DATA

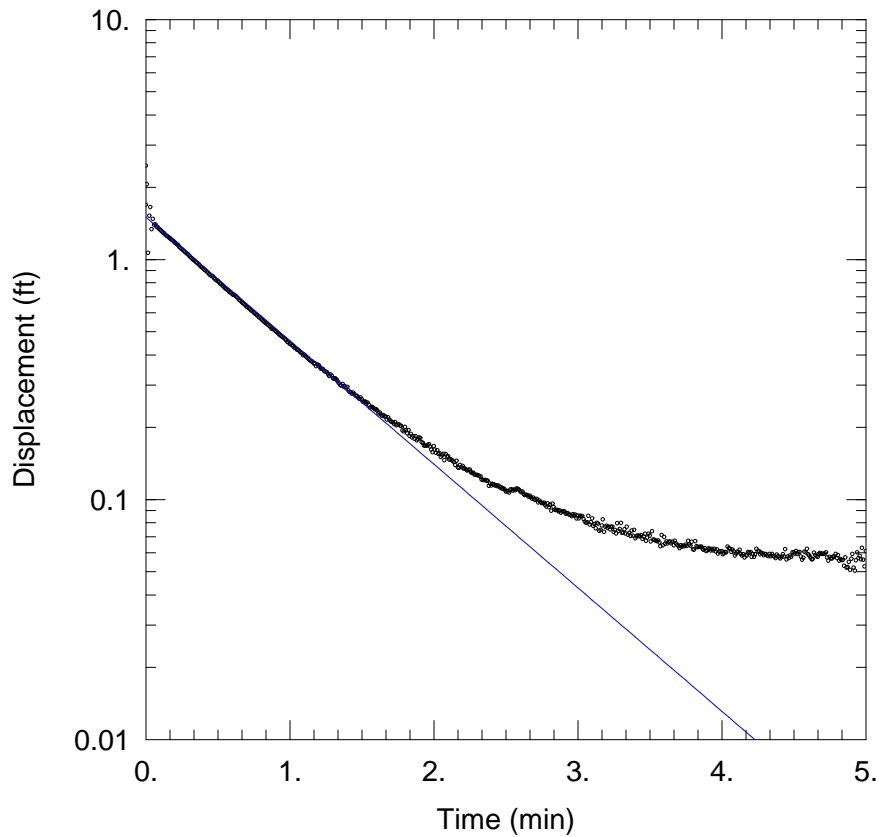
Saturated Thickness: 9.7 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (40-75)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 9.1 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 65.03 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



40-75 FALLING HEAD TEST 4

Data Set: N:\...\40-75-FH4.aqt
 Date: 05/06/13 Time: 10:37:40

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 40-75
 Test Date: February 1, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001378$ cm/sec
 $y_0 = 1.5$ ft

AQUIFER DATA

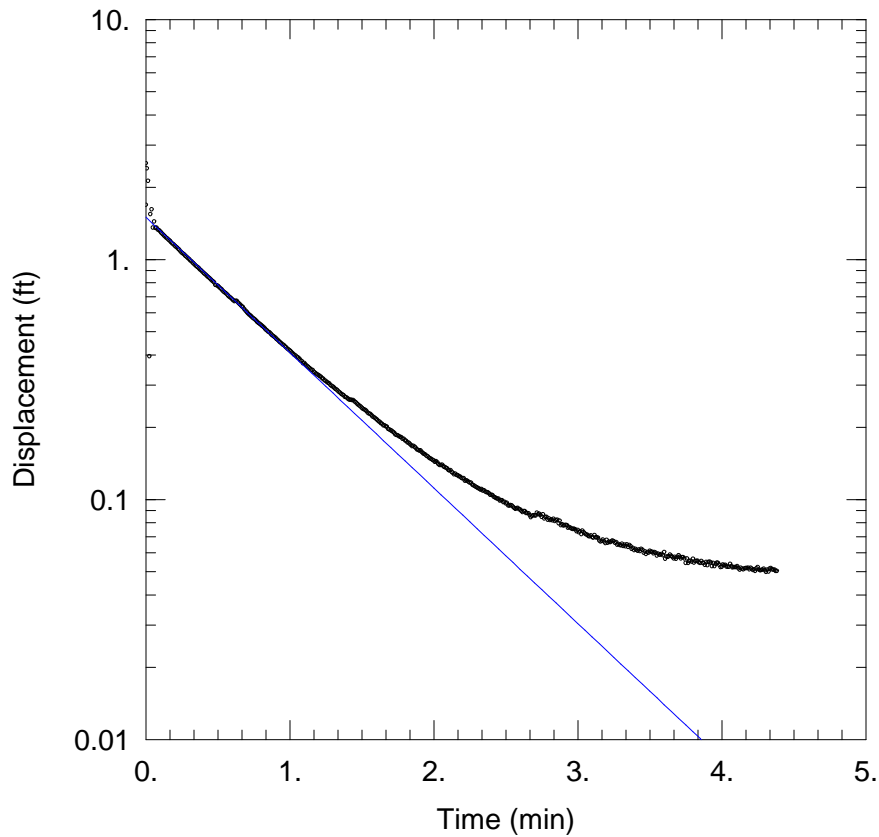
Saturated Thickness: 9.7 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-75)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 9.1 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 65.03 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



40-75 FALLING HEAD TEST 5

Data Set: N:\...\40-75-FH5.aqt

Date: 05/06/13

Time: 10:36:32

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 40-75

Test Date: February 1, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.001511 cm/sec

y0 = 1.5 ft

AQUIFER DATA

Saturated Thickness: 9.7 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (40-75)

Initial Displacement: 1.688 ft

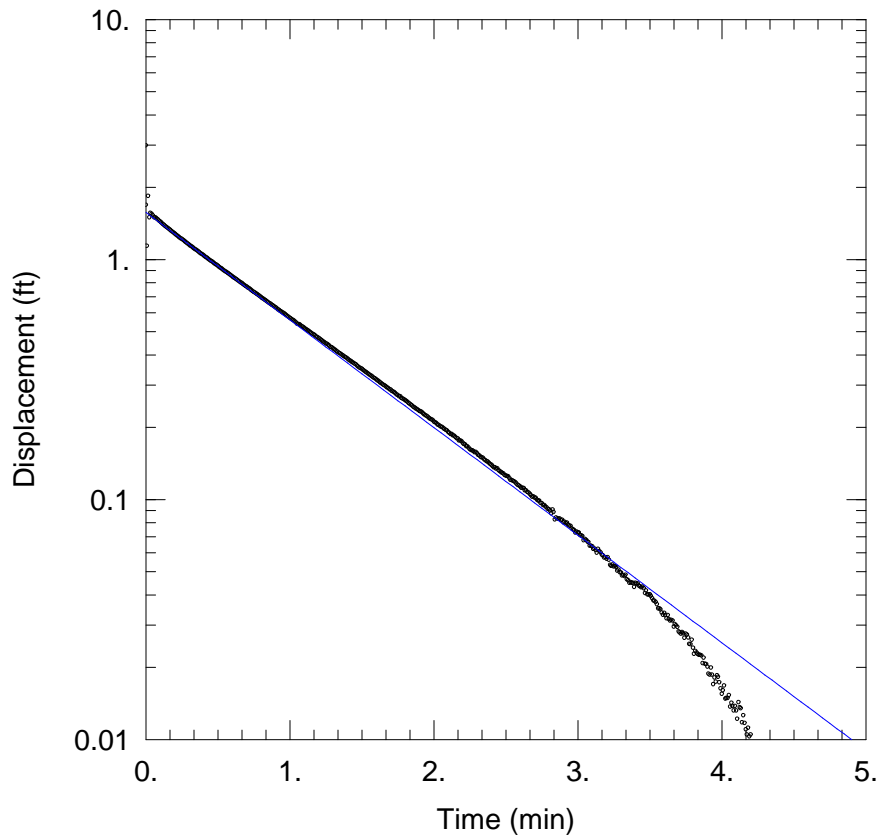
Total Well Penetration Depth: 9.1 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 65.03 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



40-75 RISING HEAD TEST 1

Data Set: N:\...\40-75-RH1.aqt

Date: 05/06/13

Time: 10:42:29

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 40-75

Test Date: February 1, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.001201 cm/sec

y0 = 1.571 ft

AQUIFER DATA

Saturated Thickness: 9.7 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (40-75)

Initial Displacement: 1.688 ft

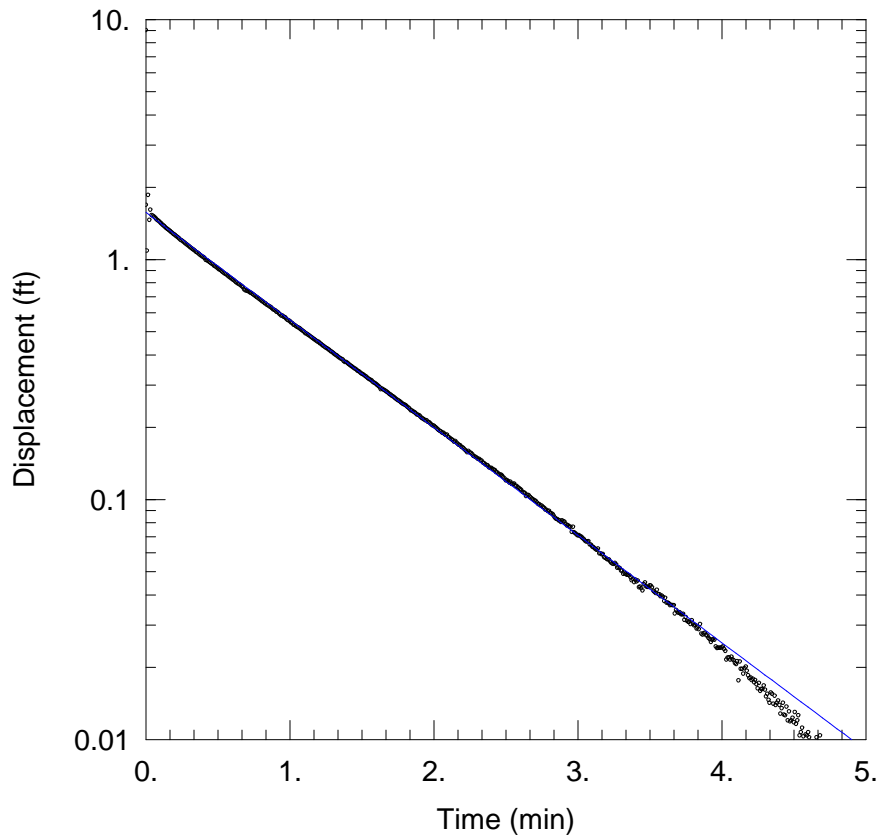
Total Well Penetration Depth: 9.1 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 65.03 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



40-75 RISING HEAD TEST 2

Data Set: N:\...\40-75-RH2.aqt
 Date: 05/06/13 Time: 10:42:15

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 40-75
 Test Date: February 1, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001201$ cm/sec
 $y_0 = 1.571$ ft

AQUIFER DATA

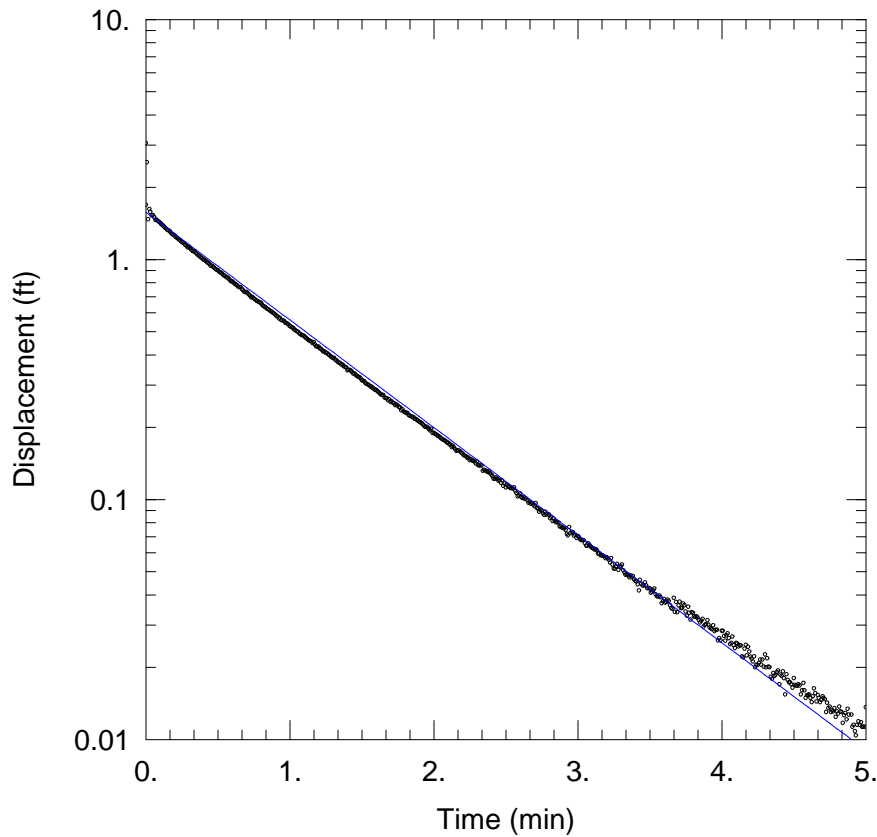
Saturated Thickness: 9.7 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-75)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 9.1 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 65.03 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



40-75 RISING HEAD TEST 3

Data Set: N:\...\40-75-RH3.aqt
 Date: 05/06/13 Time: 10:42:00

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 40-75
 Test Date: February 1, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001201$ cm/sec
 $y_0 = 1.571$ ft

AQUIFER DATA

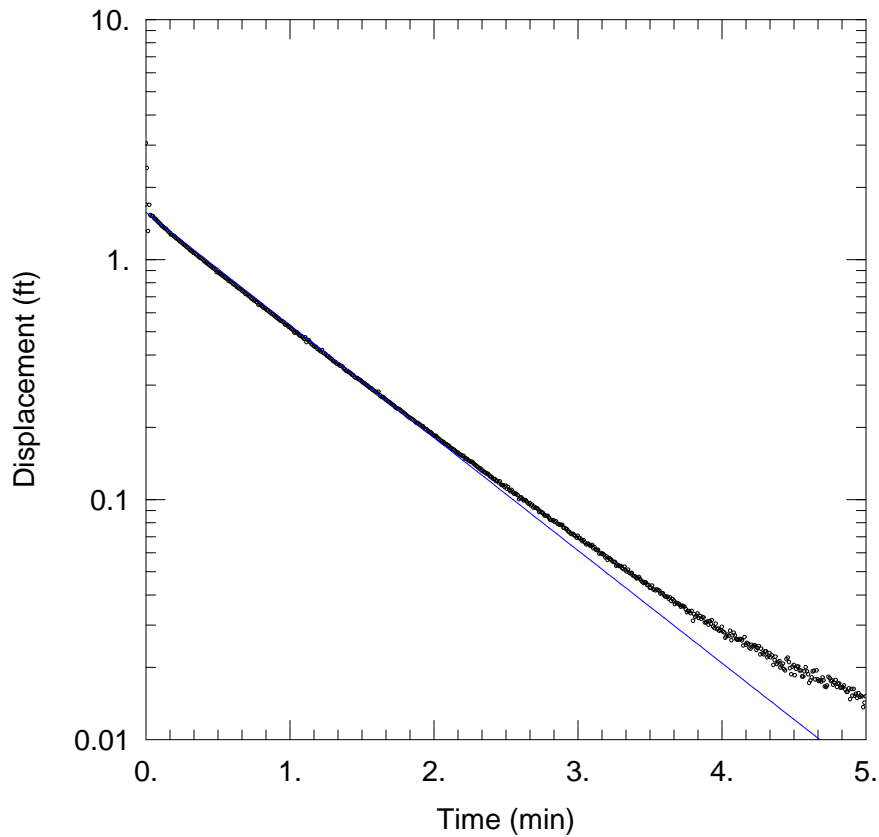
Saturated Thickness: 9.7 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-75)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 9.1 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 65.03 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



40-75 RISING HEAD TEST 4

Data Set: N:\...\40-75-RH4.aqt
 Date: 05/06/13 Time: 10:41:47

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 40-75
 Test Date: February 1, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001257$ cm/sec
 $y_0 = 1.571$ ft

AQUIFER DATA

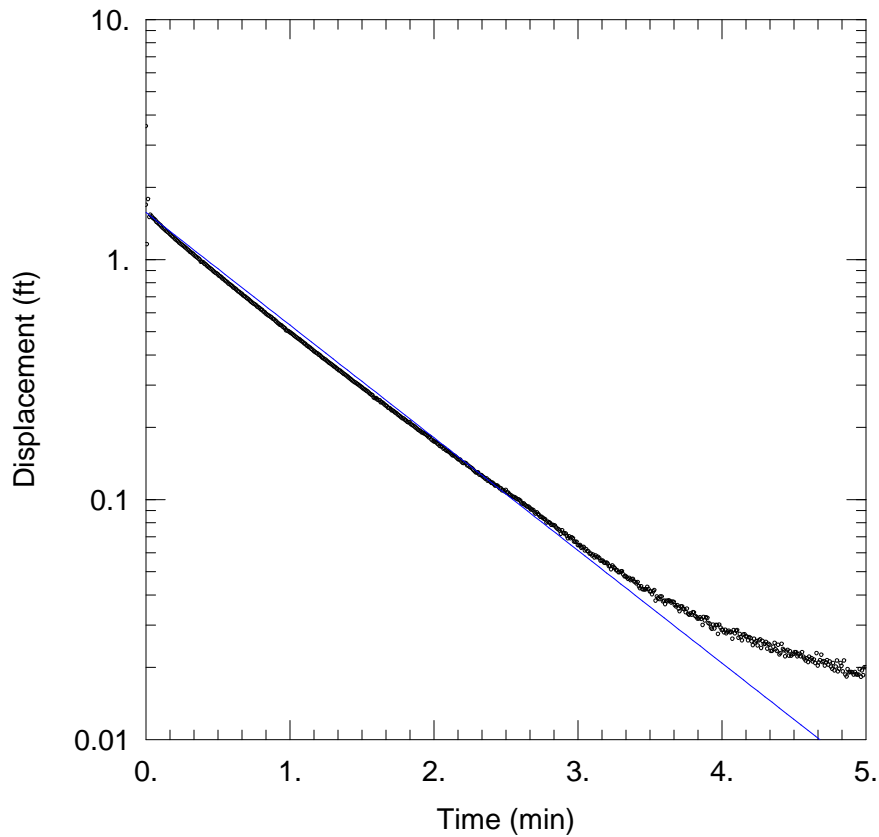
Saturated Thickness: 9.7 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-75)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 9.1 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 65.03 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



40-75 RISING HEAD TEST 5

Data Set: N:\...\40-75-RH5.aqt
 Date: 05/06/13 Time: 10:41:33

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 40-75
 Test Date: February 1, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001257$ cm/sec
 $y_0 = 1.571$ ft

AQUIFER DATA

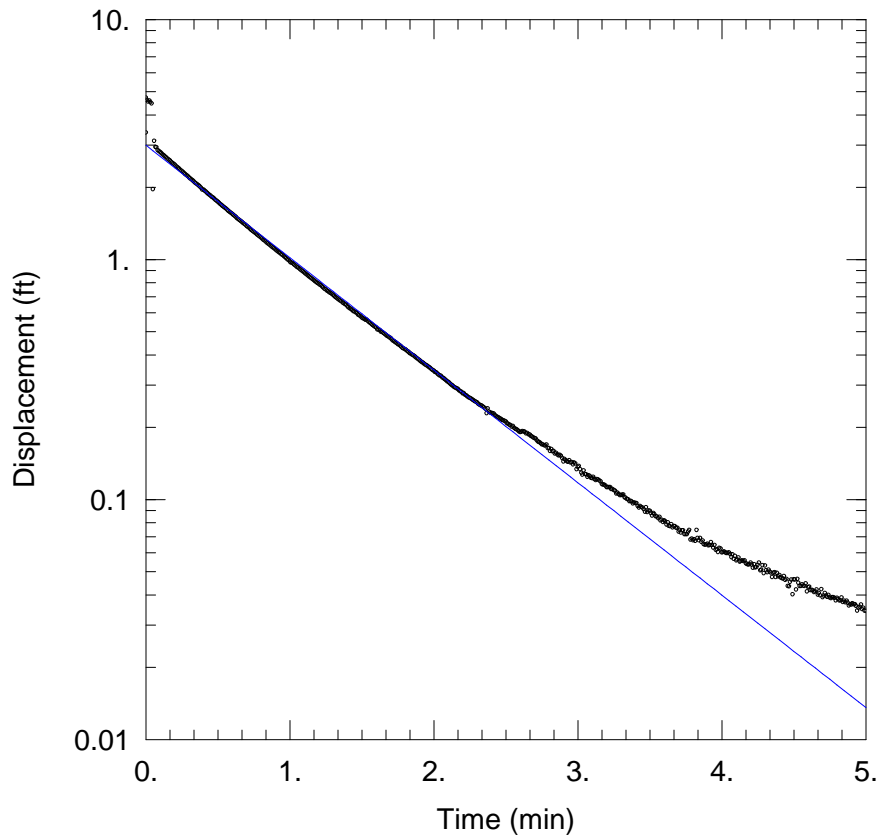
Saturated Thickness: 9.7 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (40-75)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 9.1 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 65.03 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



41C-130 FALLING HEAD TEST 1

Data Set: N:\...\41C-130-FH1.aqt
 Date: 05/09/13 Time: 16:03:18

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 41C-130
 Test Date: January 31, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001257$ cm/sec
 $y_0 = 2.993$ ft

AQUIFER DATA

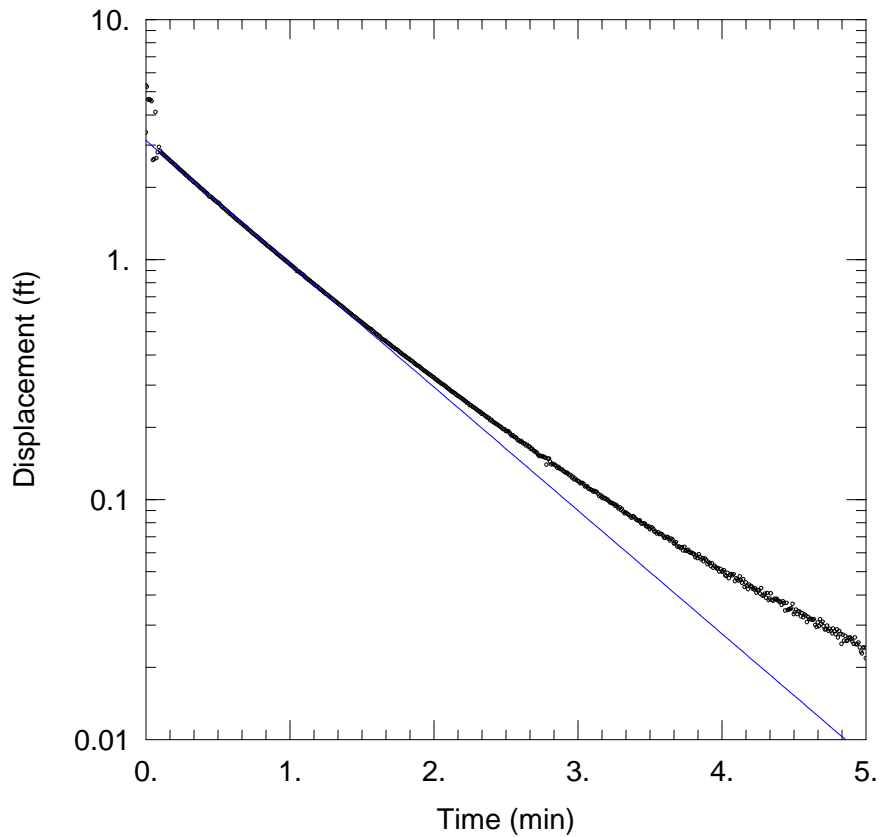
Saturated Thickness: 7.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (41C-130)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7.6 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 116.5 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



41C-130 FALLING HEAD TEST 2

Data Set: N:\...\41C-130-FH2.aqt
 Date: 05/09/13 Time: 16:03:04

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 41C-130
 Test Date: January 31, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001378$ cm/sec
 $y_0 = 3.134$ ft

AQUIFER DATA

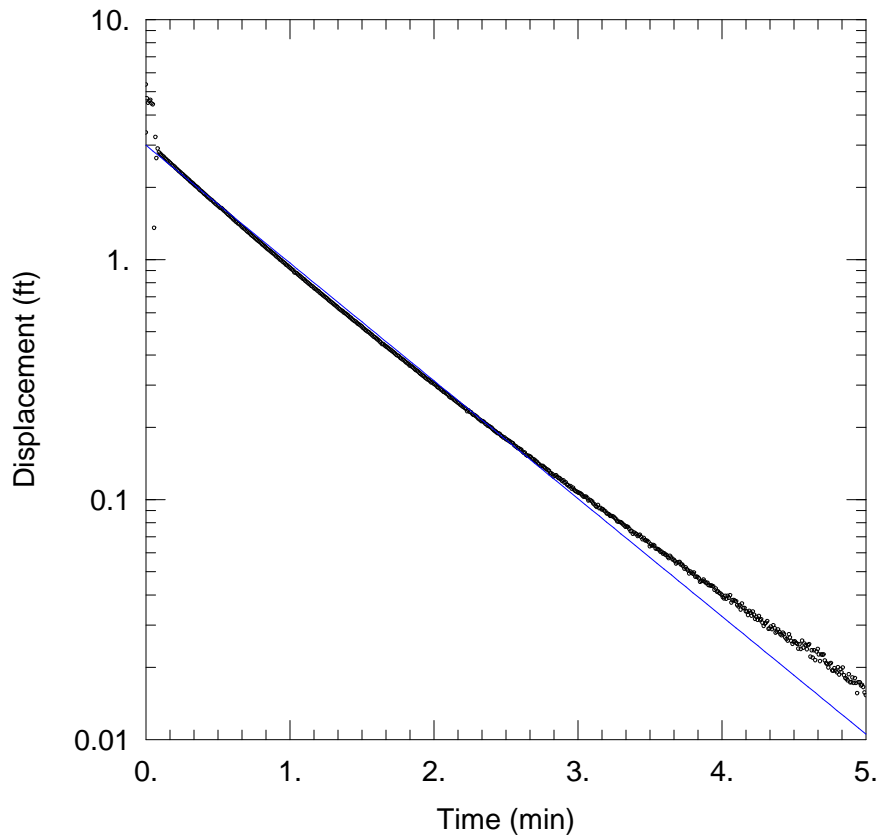
Saturated Thickness: 7.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (41C-130)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7.6 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 116.5 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



41C-130 FALLING HEAD TEST 3

Data Set: N:\...\41C-130-FH3.aqt
 Date: 05/09/13 Time: 16:02:52

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 41C-130
 Test Date: January 31, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001316$ cm/sec
 $y_0 = 2.993$ ft

AQUIFER DATA

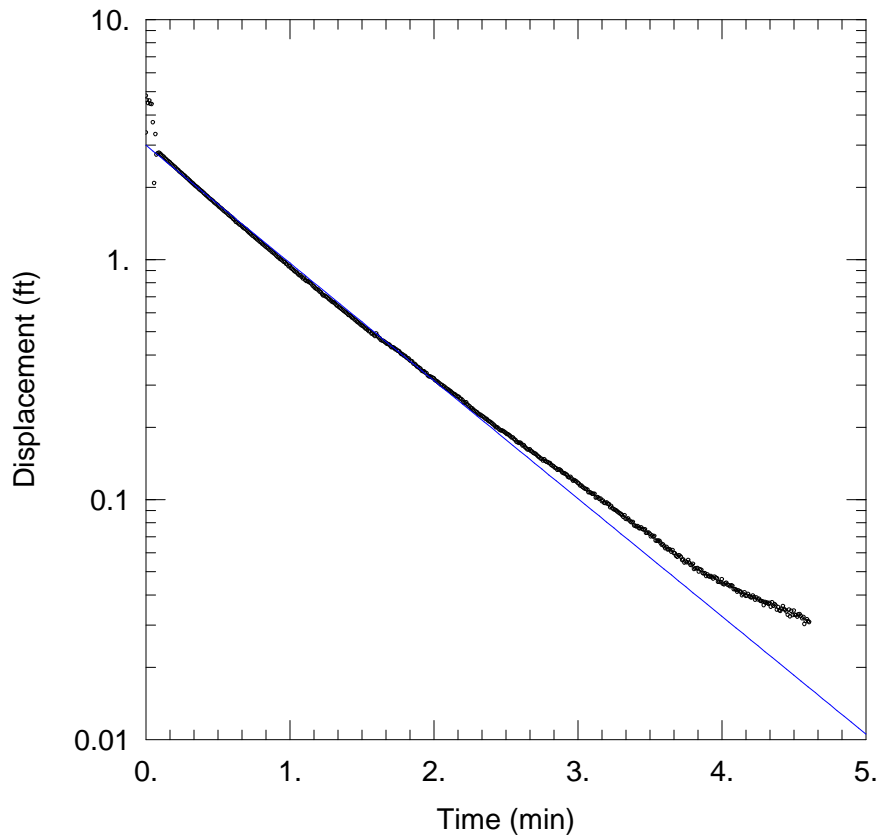
Saturated Thickness: 7.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (41C-130)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7.6 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 116.5 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



41C-130 FALLING HEAD TEST 4

Data Set: N:\...\41C-130-FH4.aqt
 Date: 05/09/13 Time: 16:02:39

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 41C-130
 Test Date: January 31, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001316$ cm/sec
 $y_0 = 2.993$ ft

AQUIFER DATA

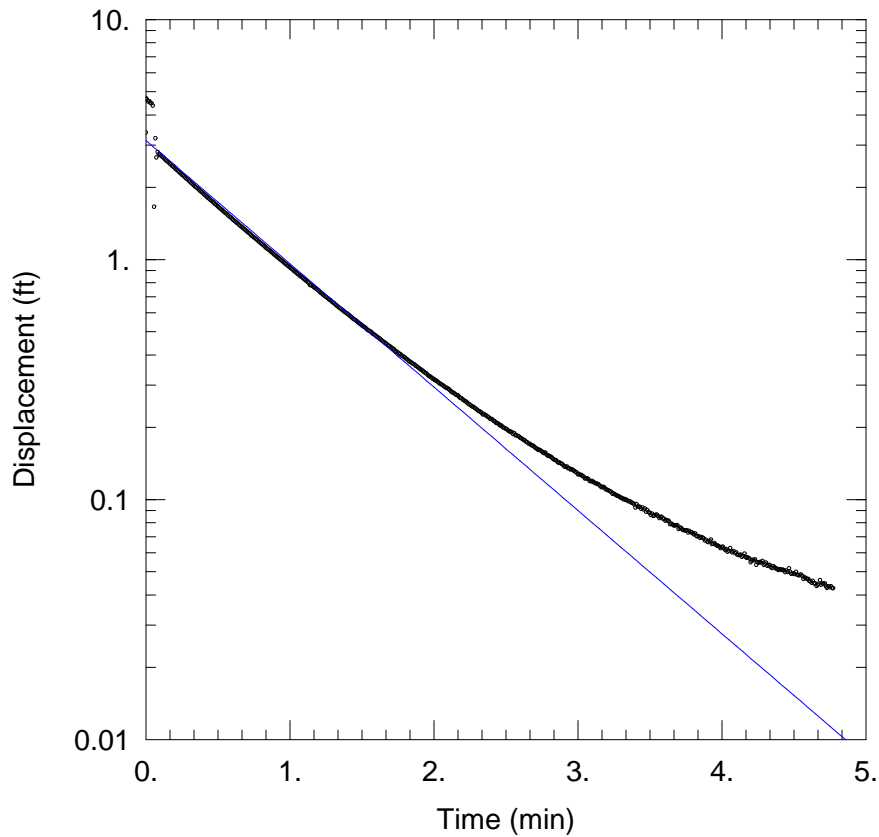
Saturated Thickness: 7.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (41C-130)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7.6 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 116.5 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



41C-130 FALLING HEAD TEST 5

Data Set: N:\...\41C-130-FH5.aqt
 Date: 05/09/13 Time: 16:02:26

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 41C-130
 Test Date: January 31, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001378$ cm/sec
 $y_0 = 3.134$ ft

AQUIFER DATA

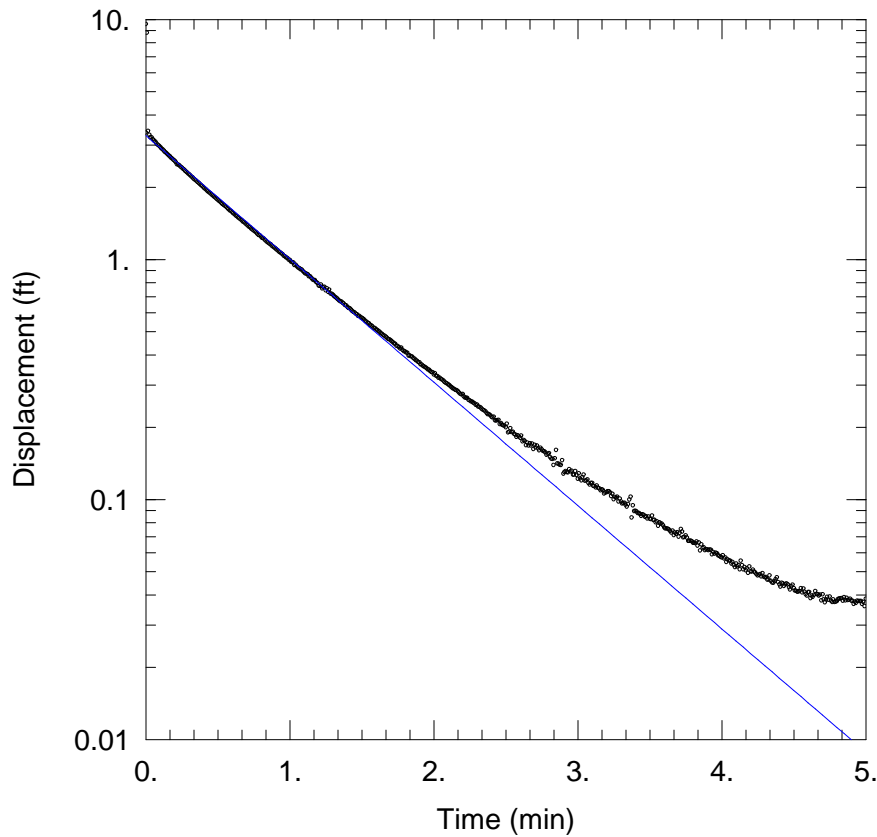
Saturated Thickness: 7.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (41C-130)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7.6 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 116.5 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



41C-130 RISING HEAD TEST 1

Data Set: N:\...\41C-130-RH1.aqt
 Date: 05/09/13 Time: 16:07:00

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 41C-130
 Test Date: January 31, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001378$ cm/sec
 $y_0 = 3.282$ ft

AQUIFER DATA

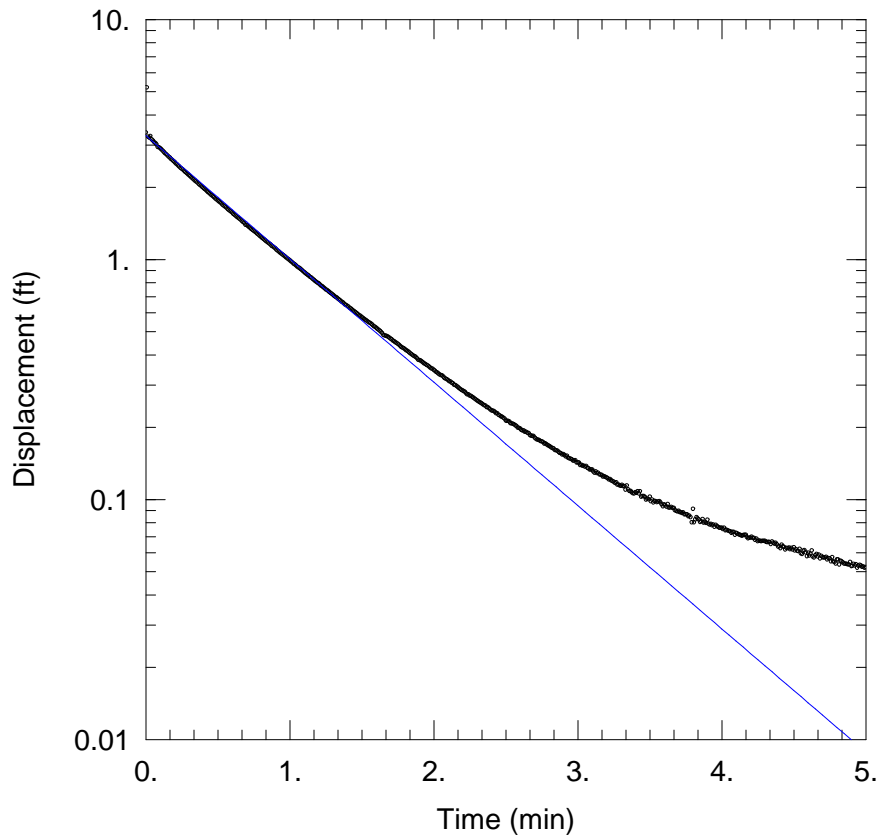
Saturated Thickness: 7.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (41C-130)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7.6 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 116.5 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



41C-130 RISING HEAD TEST 2

Data Set: N:\...\41C-130-RH2.aqt
 Date: 05/09/13 Time: 16:06:47

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 41C-130
 Test Date: January 31, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001378$ cm/sec
 $y_0 = 3.282$ ft

AQUIFER DATA

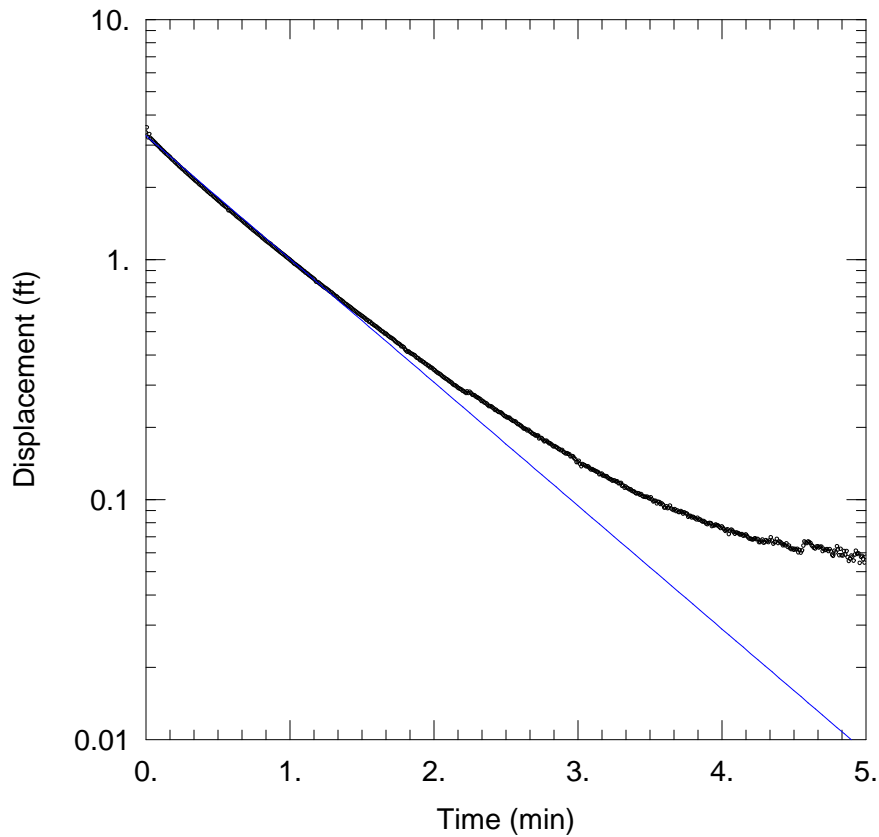
Saturated Thickness: 7.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (41C-130)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7.6 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 116.5 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



41C-130 RISING HEAD TEST 3

Data Set: N:\...\41C-130-RH3.aqt
 Date: 05/09/13 Time: 16:06:34

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 41C-130
 Test Date: January 31, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.001378 cm/sec
 y0 = 3.282 ft

AQUIFER DATA

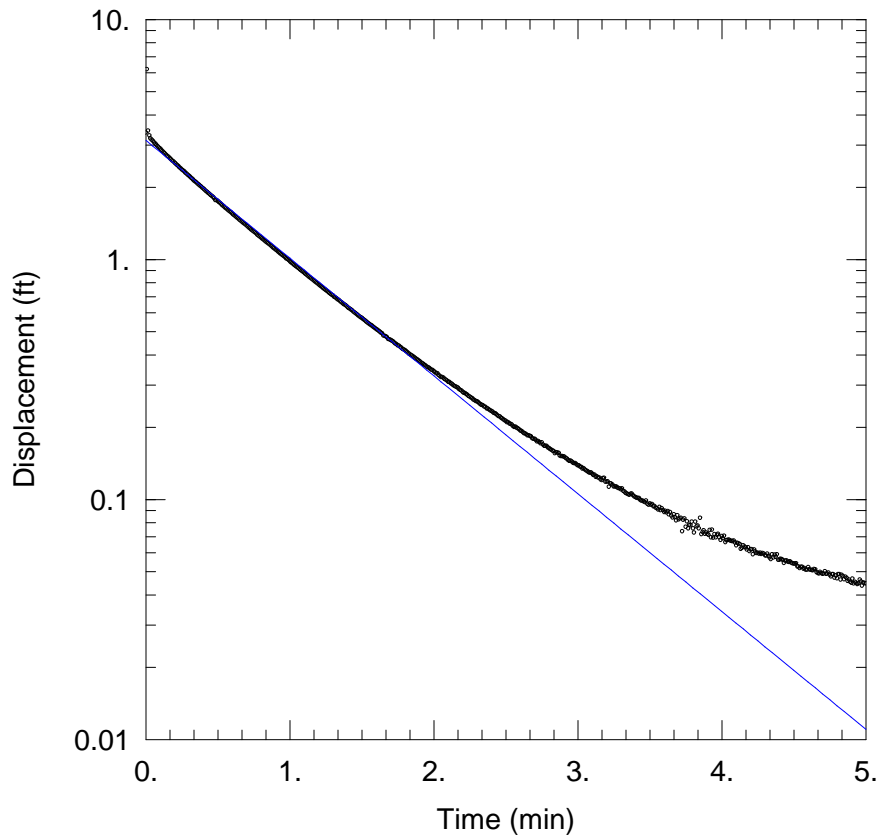
Saturated Thickness: 7.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (41C-130)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7.6 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 116.5 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



41C-130 RISING HEAD TEST 4

Data Set: N:\...\41C-130-RH4.aqt
 Date: 05/09/13 Time: 16:06:22

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 41C-130
 Test Date: January 31, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.001316 cm/sec
 y0 = 3.134 ft

AQUIFER DATA

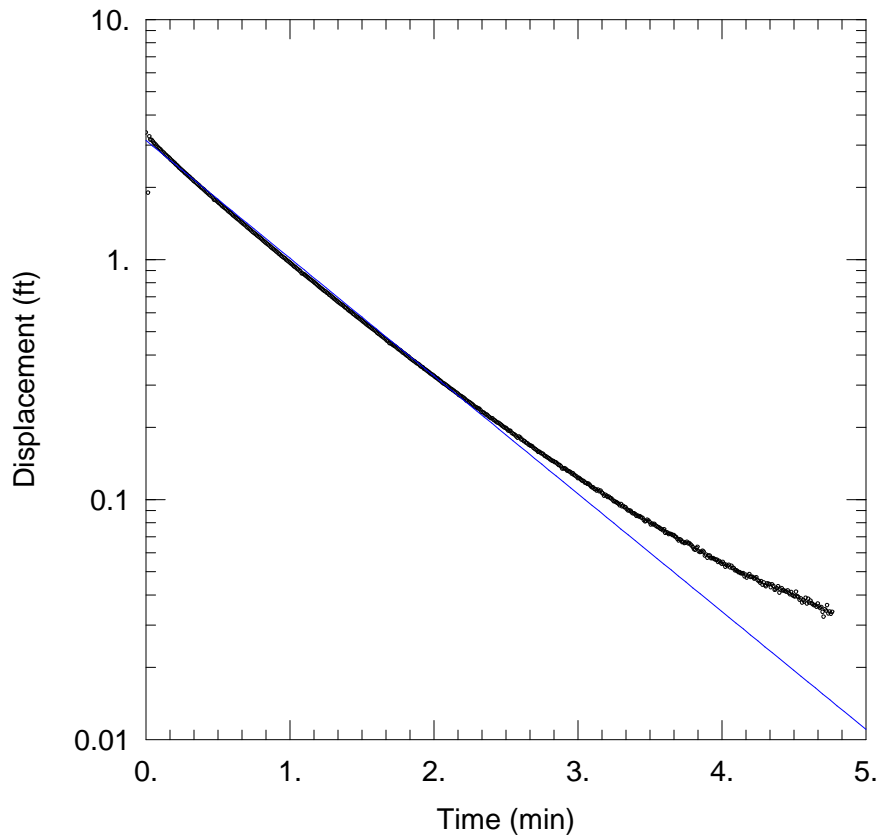
Saturated Thickness: 7.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (41C-130)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7.6 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 116.5 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



41C-130 RISING HEAD TEST 5

Data Set: N:\...\41C-130-RH5.aqt
 Date: 05/09/13 Time: 16:06:10

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 41C-130
 Test Date: January 31, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.001316 cm/sec
 y0 = 3.134 ft

AQUIFER DATA

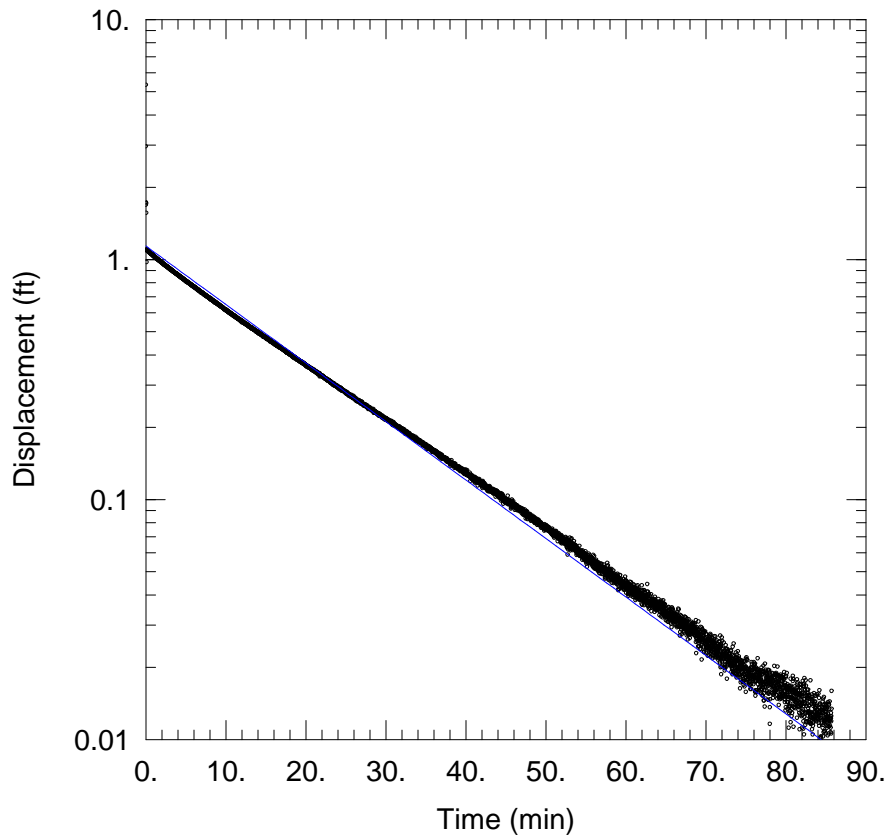
Saturated Thickness: 7.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (41C-130)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7.6 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 116.5 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



42-25 FALLING HEAD TEST 1

Data Set: N:\...\42-25-FH1.aqt
 Date: 05/06/13 Time: 11:37:41

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 42-25
 Test Date: February 8, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 5.746E-5$ cm/sec
 $y_0 = 1.138$ ft

AQUIFER DATA

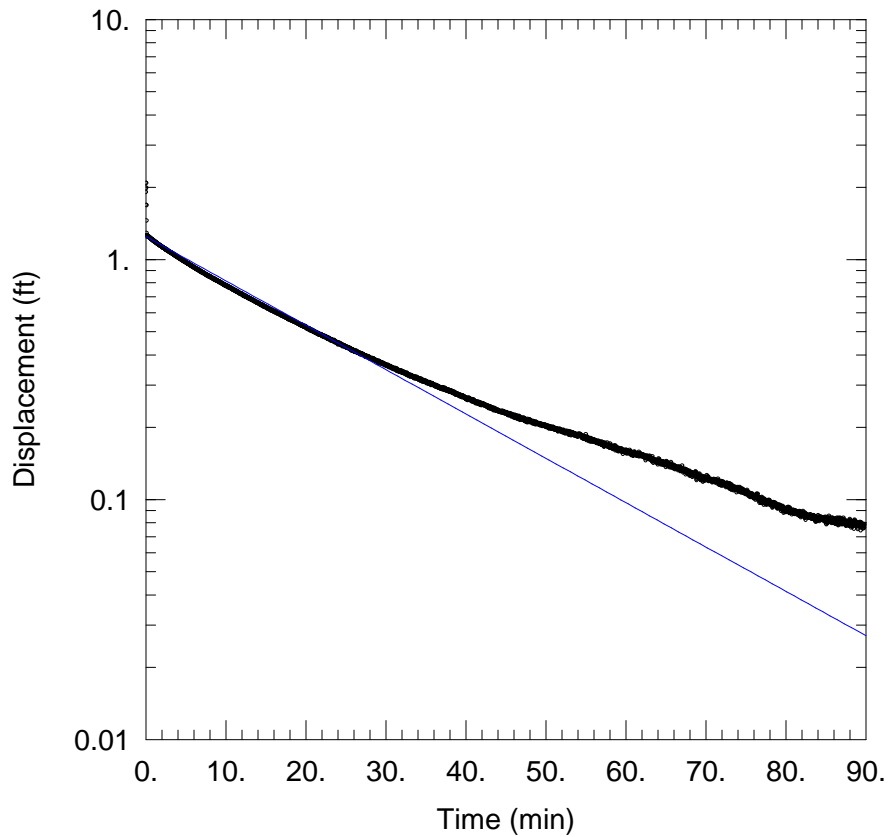
Saturated Thickness: 11. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (42-25)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 8.5 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 14.69 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



42-25 FALLING HEAD TEST 2

Data Set: N:\...\42-25-FH2.aqt
 Date: 05/06/13 Time: 11:36:04

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 42-25
 Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 4.359E-5$ cm/sec
 $y_0 = 1.248$ ft

AQUIFER DATA

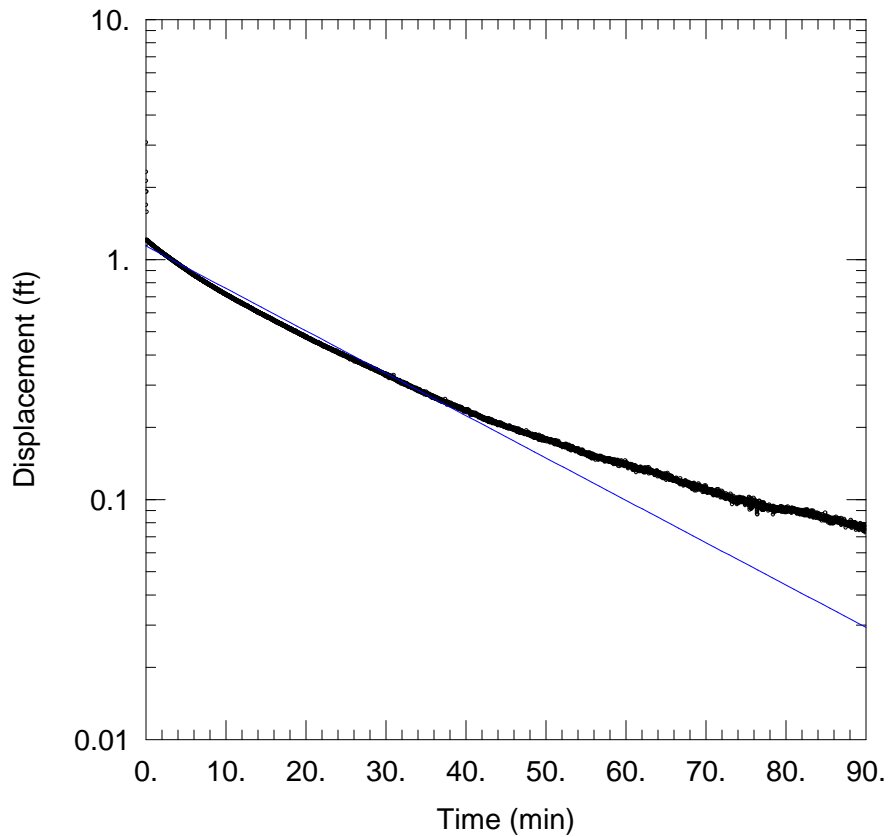
Saturated Thickness: 11. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (42-25)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 8.5 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 14.69 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



42-25 FALLING HEAD TEST 3

Data Set: N:\...\42-25-FH3.aqt
 Date: 05/06/13 Time: 11:35:50

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 42-25
 Test Date: February 13, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 4.163E-5$ cm/sec
 $y_0 = 1.138$ ft

AQUIFER DATA

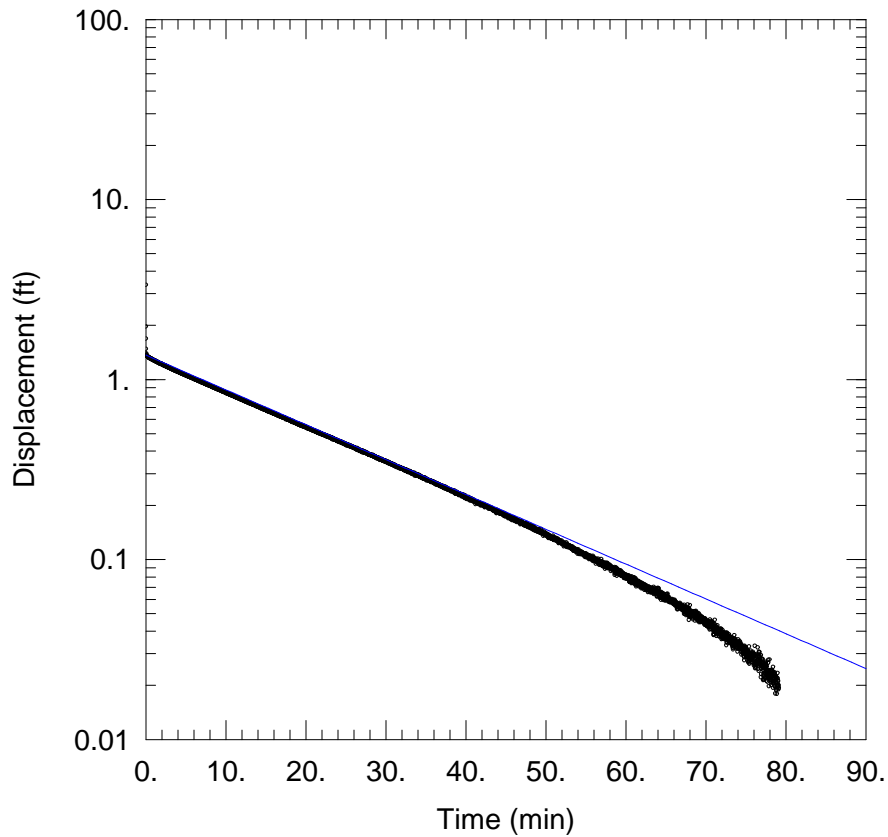
Saturated Thickness: 11. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (42-25)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 8.5 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 14.69 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



42-25 RISING HEAD TEST 1

Data Set: N:\...\42-25-RH1.aqt

Date: 05/06/13

Time: 11:37:25

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 42-25

Test Date: February 8, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 4.564E-5$ cm/sec

$y_0 = 1.368$ ft

AQUIFER DATA

Saturated Thickness: 11. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (42-25)

Initial Displacement: 1.688 ft

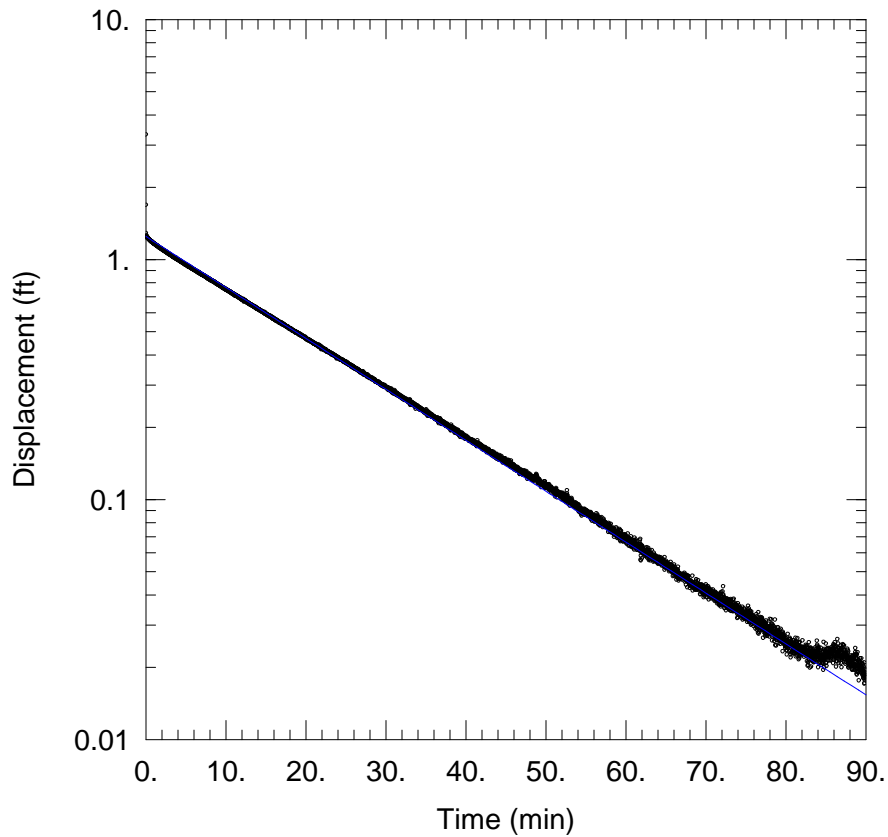
Total Well Penetration Depth: 8.5 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 14.69 ft

Screen Length: 5. ft

Well Radius: 0.333 ft



42-25 RISING HEAD TEST 2

Data Set: N:\...\42-25-RH2.aqt
 Date: 05/06/13 Time: 11:39:41

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 42-25
 Test Date: February 11, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 5.005E-5$ cm/sec
 $y_0 = 1.248$ ft

AQUIFER DATA

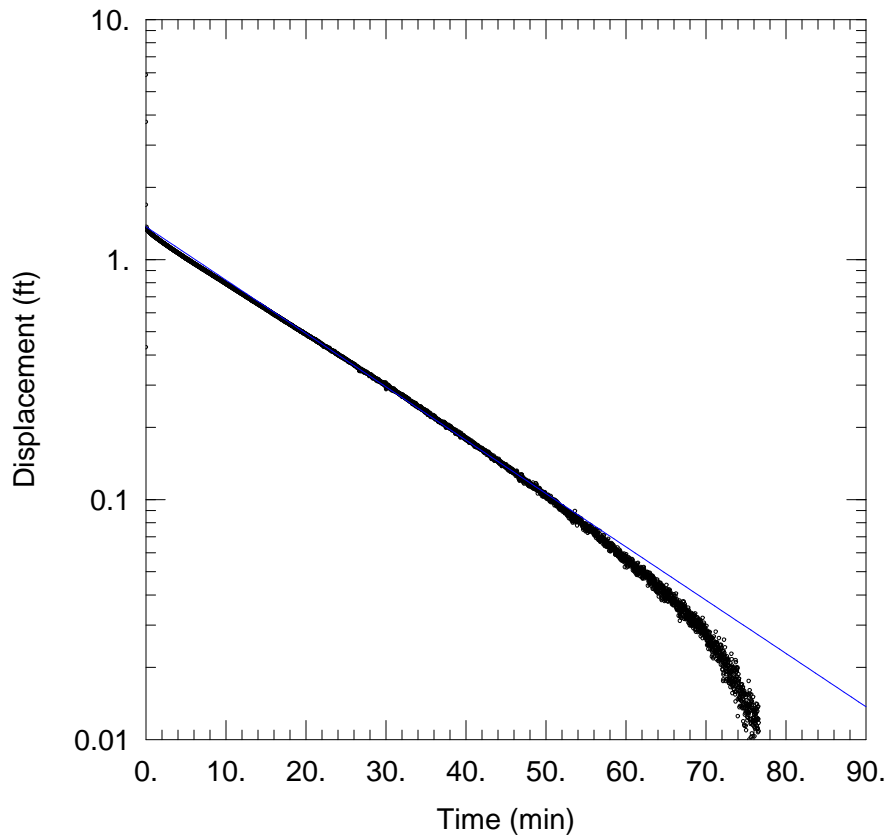
Saturated Thickness: 11. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (42-25)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 8.5 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 14.69 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



42-25 RISING HEAD TEST 3

Data Set: N:\...\42-25-RH3.aqt

Date: 05/06/13

Time: 11:40:11

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 42-25

Test Date: February 14, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 5.24E-5 cm/sec

y0 = 1.368 ft

AQUIFER DATA

Saturated Thickness: 11. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (42-25)

Initial Displacement: 1.688 ft

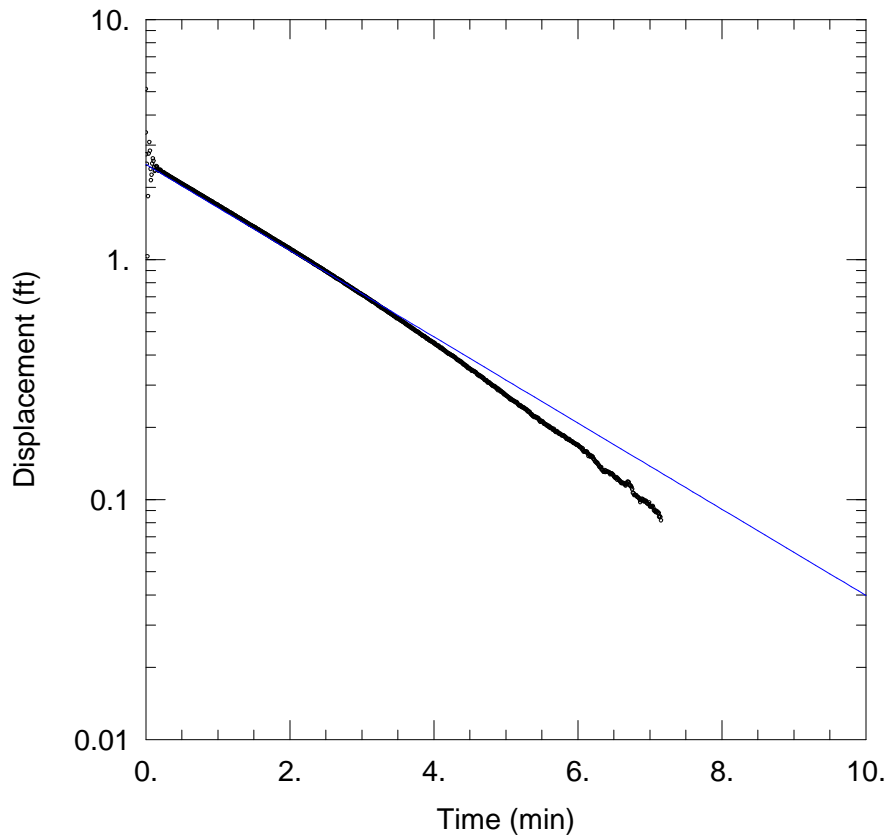
Total Well Penetration Depth: 8.5 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 14.69 ft

Screen Length: 5. ft

Well Radius: 0.333 ft



42-50 FALLING HEAD TEST 1

Data Set: N:\...\42-50-FH1.aqt

Date: 05/06/13

Time: 12:28:37

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 42-50

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.001257 cm/sec

y0 = 2.49 ft

AQUIFER DATA

Saturated Thickness: 5. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (42-50)

Initial Displacement: 3.375 ft

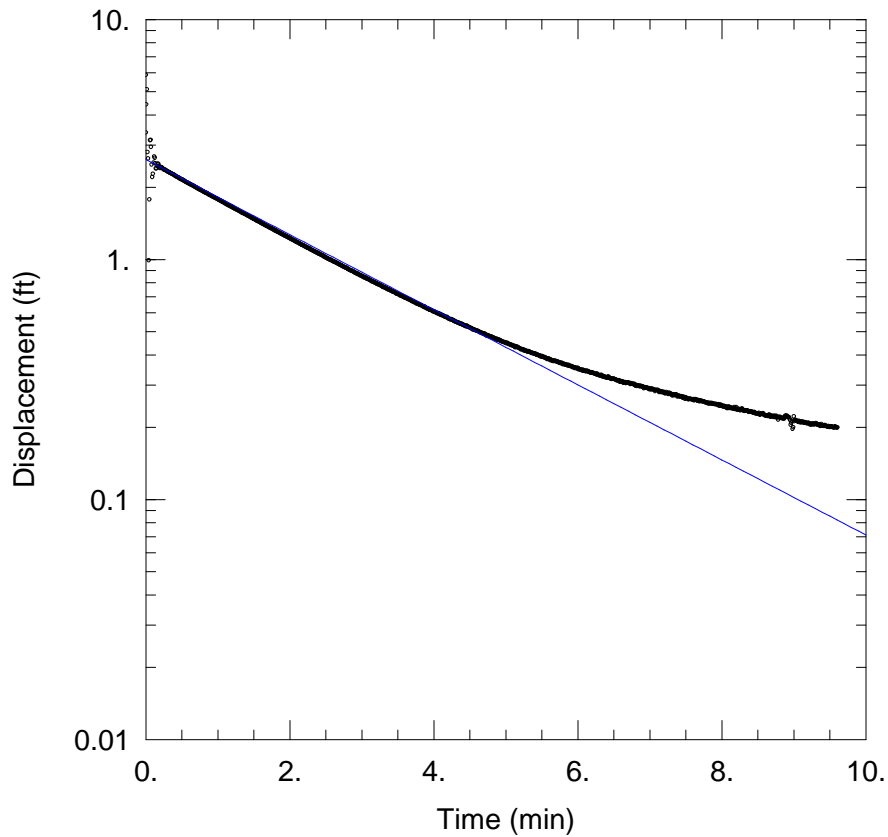
Total Well Penetration Depth: 5. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 34.26 ft

Screen Length: 1.5 ft

Well Radius: 0.333 ft



42-50 FALLING HEAD TEST 2

Data Set: N:\...\42-50-FH2.aqt

Date: 05/06/13

Time: 12:28:24

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 42-50

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.001095 cm/sec

y0 = 2.607 ft

AQUIFER DATA

Saturated Thickness: 5. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (42-50)

Initial Displacement: 3.375 ft

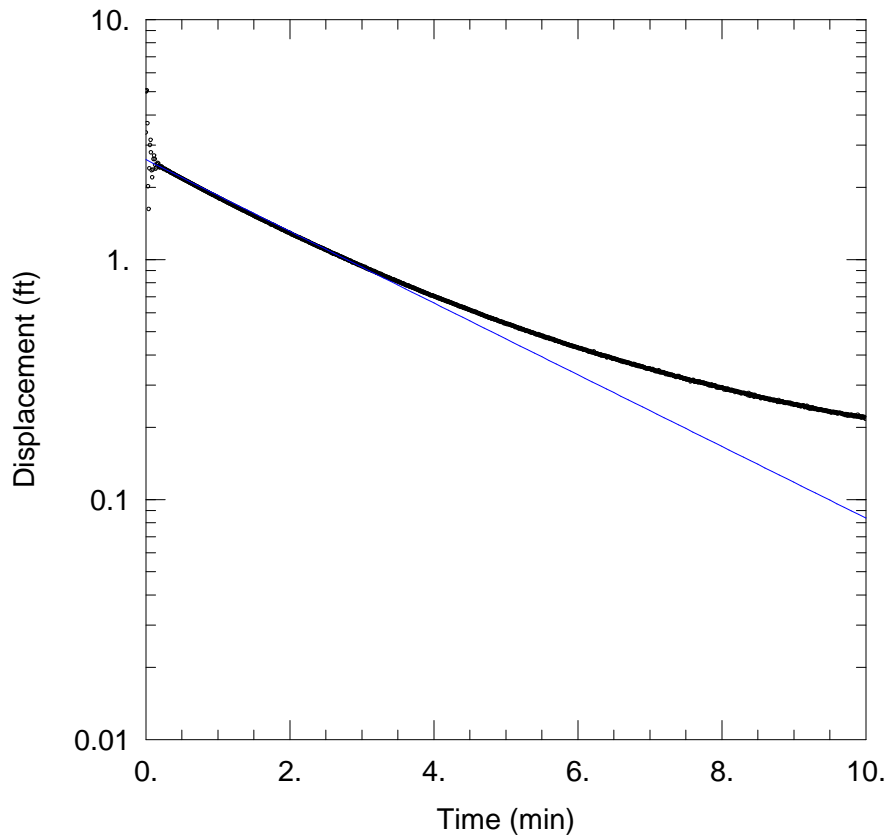
Total Well Penetration Depth: 5. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 34.26 ft

Screen Length: 1.5 ft

Well Radius: 0.333 ft



42-50 FALLING HEAD TEST 3

Data Set: N:\...\42-50-FH3.aqt

Date: 05/06/13

Time: 12:28:09

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 42-50

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.001046 cm/sec

y0 = 2.607 ft

AQUIFER DATA

Saturated Thickness: 5. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (42-50)

Initial Displacement: 3.375 ft

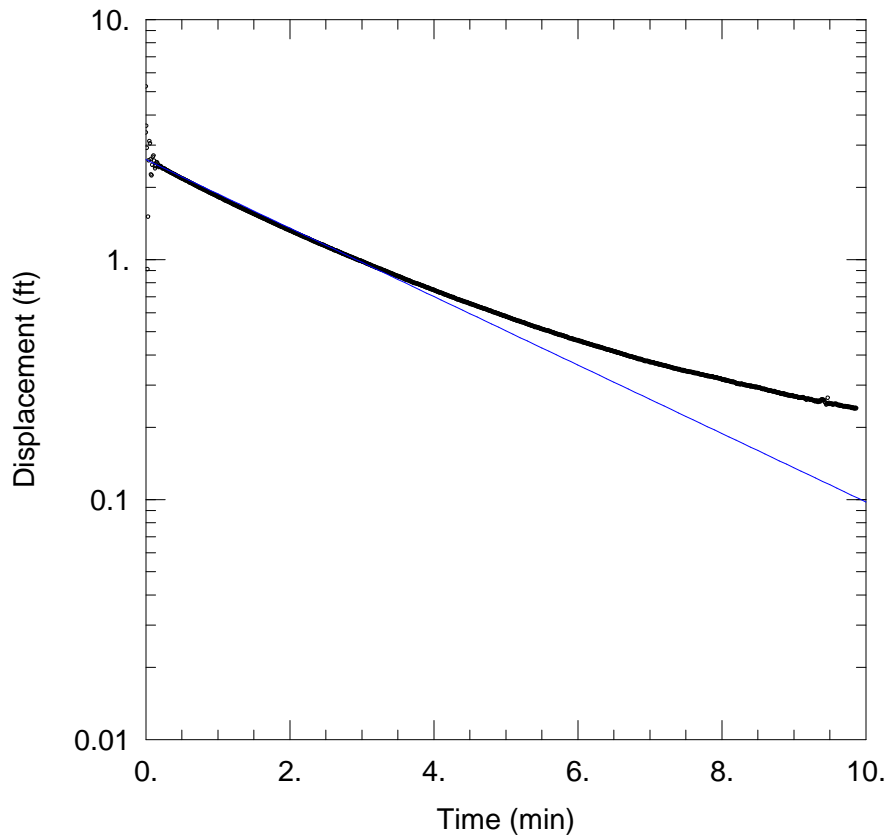
Total Well Penetration Depth: 5. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 34.26 ft

Screen Length: 1.5 ft

Well Radius: 0.333 ft



42-50 FALLING HEAD TEST 4

Data Set: N:\...\42-50-FH4.aqt

Date: 05/06/13

Time: 12:27:56

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 42-50

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0009986 cm/sec

y0 = 2.607 ft

AQUIFER DATA

Saturated Thickness: 5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (42-50)

Initial Displacement: 3.375 ft

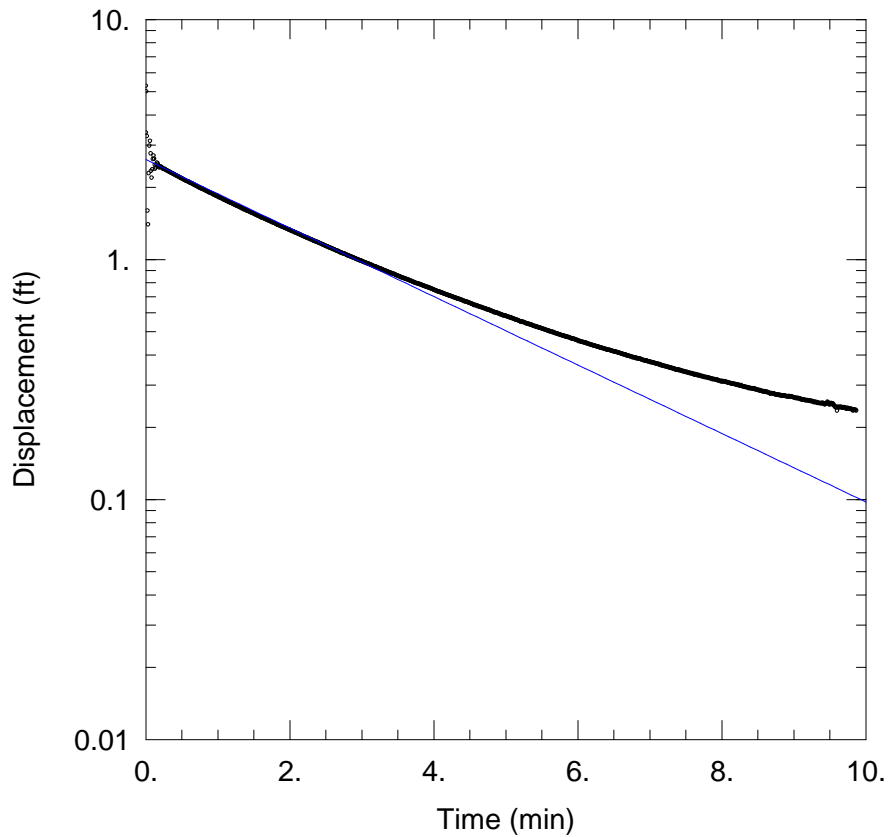
Total Well Penetration Depth: 5 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 34.26 ft

Screen Length: 1.5 ft

Well Radius: 0.333 ft



42-50 FALLING HEAD TEST 5

Data Set: N:\...\42-50-FH5.aqt

Date: 05/06/13

Time: 12:27:42

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 42-50

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0009986 cm/sec

y0 = 2.607 ft

AQUIFER DATA

Saturated Thickness: 5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (42-50)

Initial Displacement: 3.375 ft

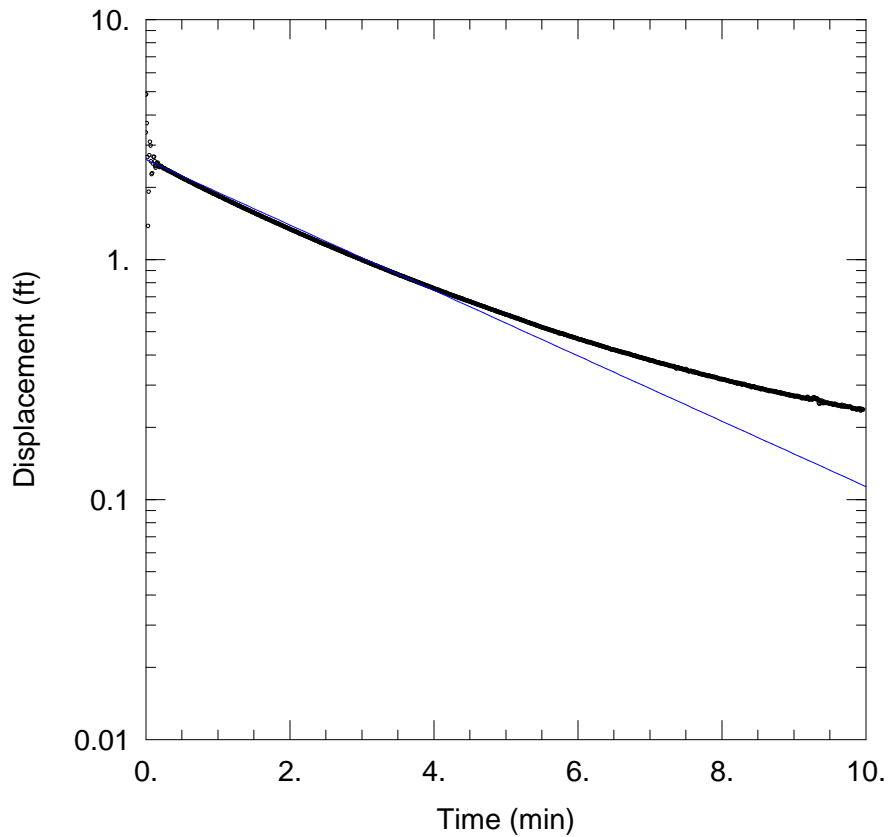
Total Well Penetration Depth: 5 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 34.26 ft

Screen Length: 1.5 ft

Well Radius: 0.333 ft



42-50 FALLING HEAD TEST 6

Data Set: N:\...\42-50-FH6.aqt

Date: 05/06/13

Time: 12:27:29

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 42-50

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0009536 cm/sec

y0 = 2.607 ft

AQUIFER DATA

Saturated Thickness: 5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (42-50)

Initial Displacement: 3.375 ft

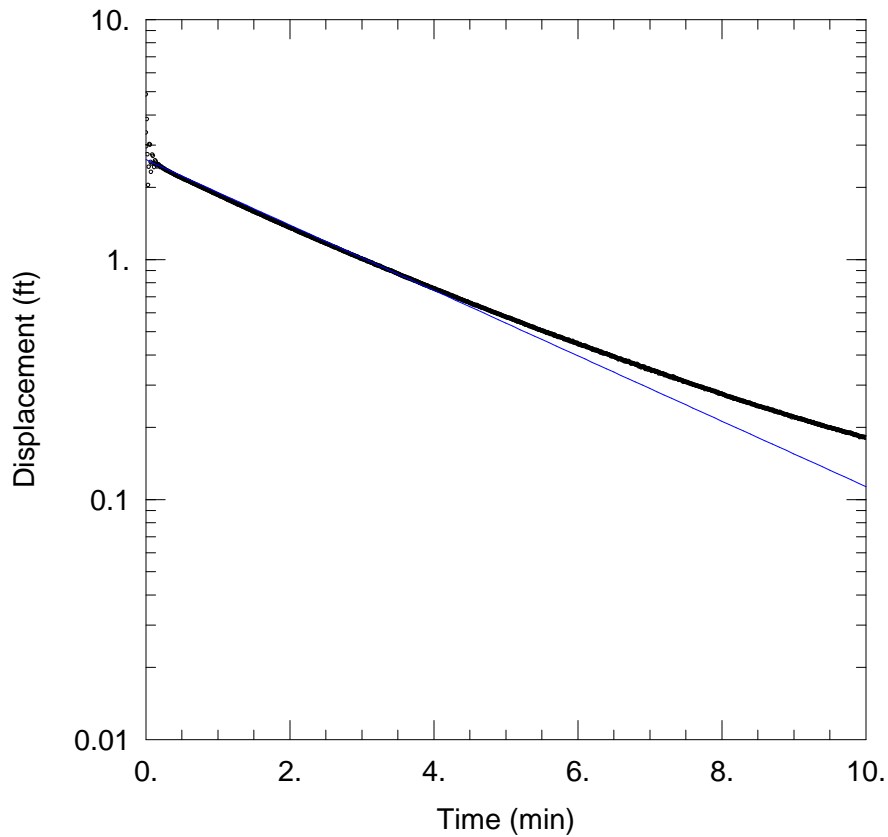
Total Well Penetration Depth: 5 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 34.26 ft

Screen Length: 1.5 ft

Well Radius: 0.333 ft



42-50 RISING HEAD TEST 1

Data Set: N:\...\42-50-RH1.aqt

Date: 05/06/13

Time: 12:35:29

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 42-50

Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0009536 cm/sec

y0 = 2.607 ft

AQUIFER DATA

Saturated Thickness: 5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (42-50)

Initial Displacement: 3.375 ft

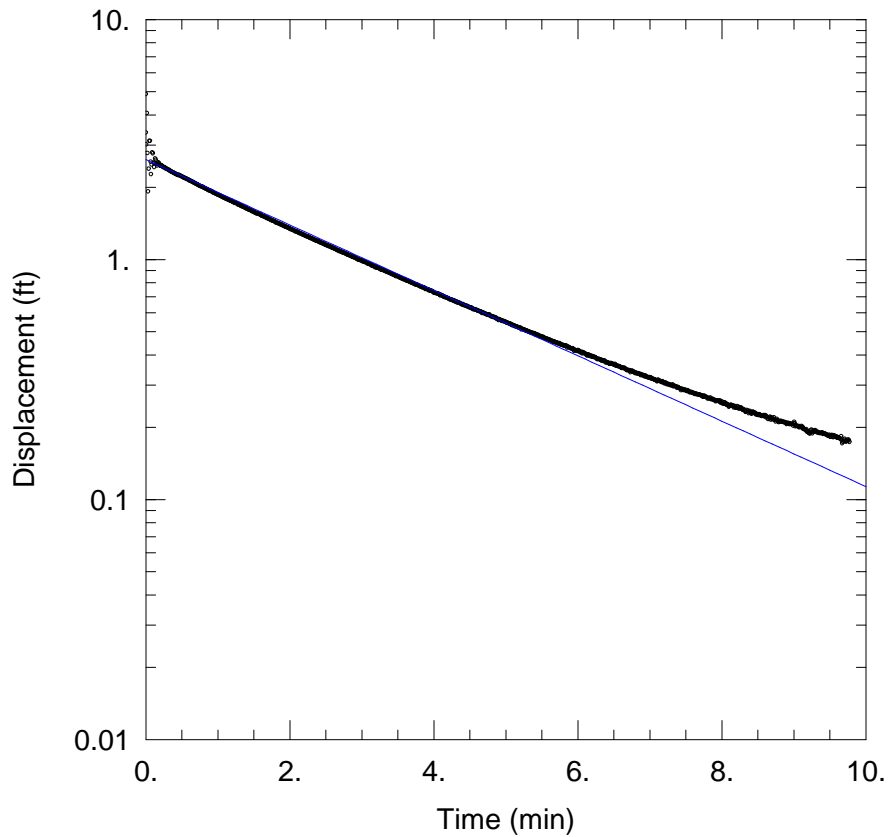
Total Well Penetration Depth: 5 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 34.26 ft

Screen Length: 1.5 ft

Well Radius: 0.333 ft



42-50 RISING HEAD TEST 2

Data Set: N:\...\42-50-RH2.aqt
 Date: 05/06/13 Time: 12:35:14

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 42-50
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0009536$ cm/sec
 $y_0 = 2.607$ ft

AQUIFER DATA

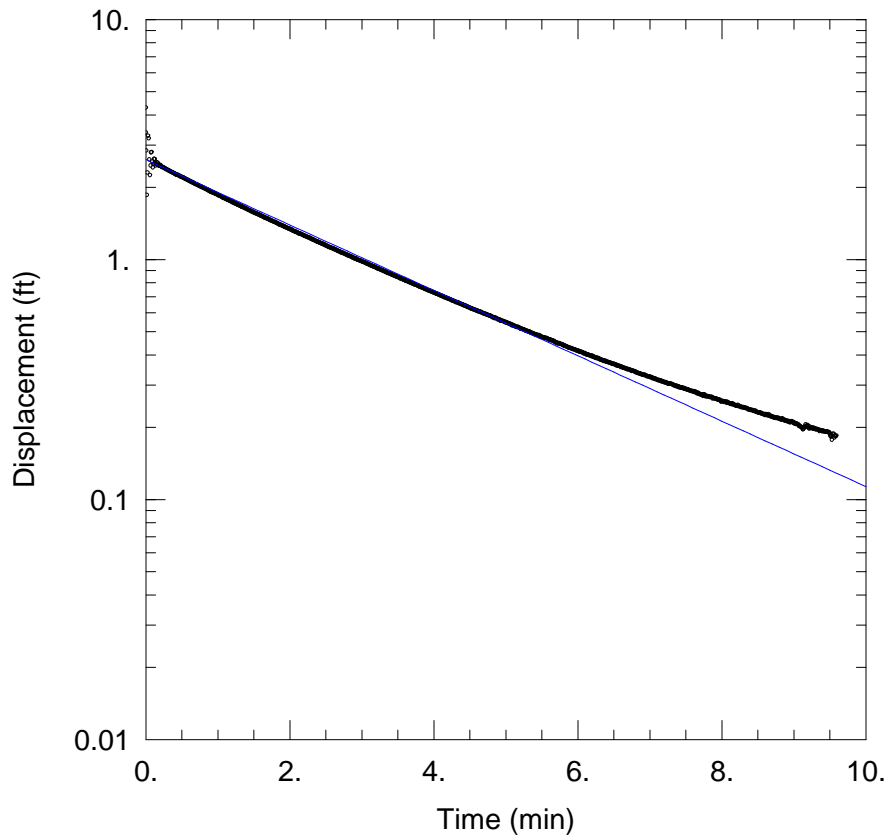
Saturated Thickness: 5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (42-50)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 5 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 34.26 ft
 Screen Length: 1.5 ft
 Well Radius: 0.333 ft



42-50 RISING HEAD TEST 3

Data Set: N:\...\42-50-RH3.aqt
 Date: 05/06/13 Time: 12:35:00

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 42-50
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0009536$ cm/sec
 $y_0 = 2.607$ ft

AQUIFER DATA

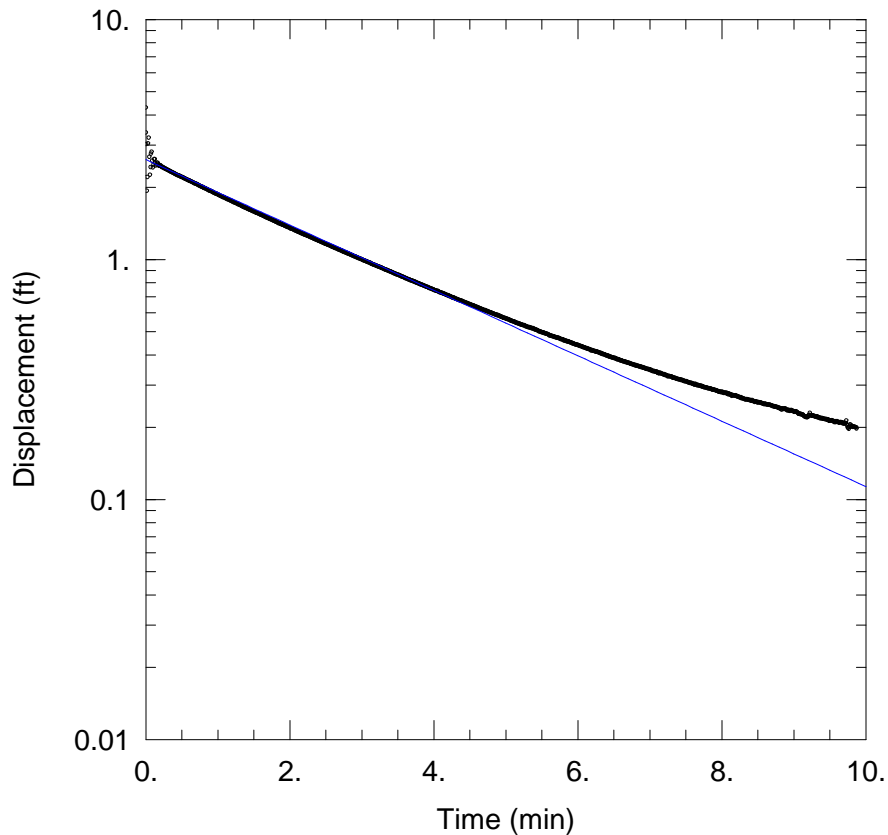
Saturated Thickness: 5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (42-50)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 5 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 34.26 ft
 Screen Length: 1.5 ft
 Well Radius: 0.333 ft



42-50 RISING HEAD TEST 4

Data Set: N:\...\42-50-RH4.aqt
 Date: 05/06/13 Time: 12:34:46

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 42-50
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0009536$ cm/sec
 $y_0 = 2.607$ ft

AQUIFER DATA

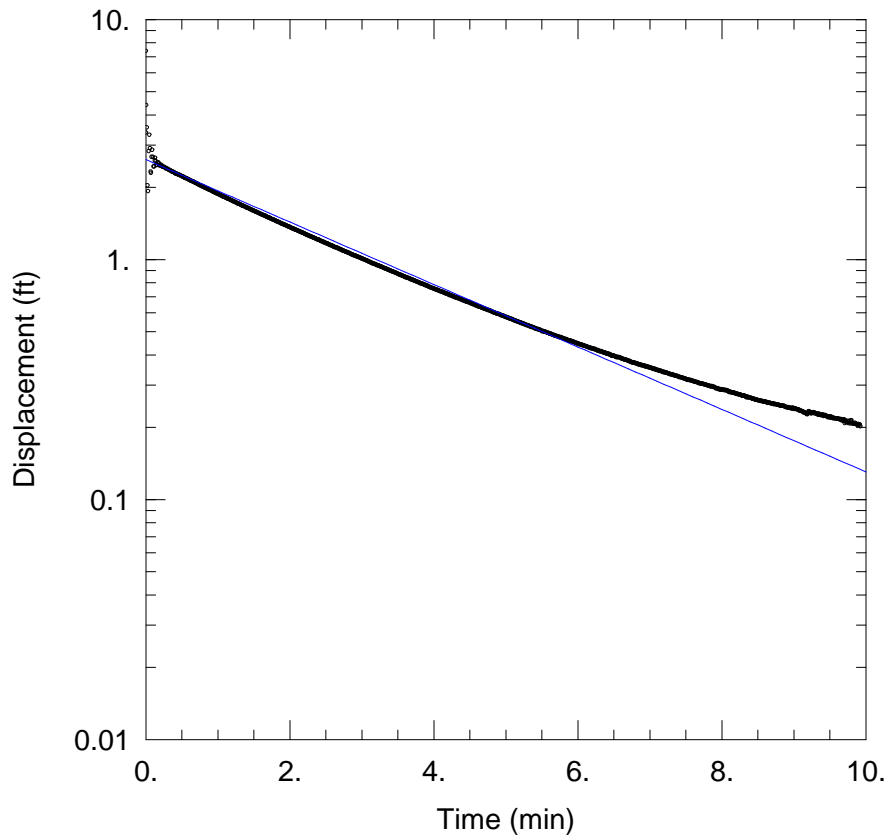
Saturated Thickness: 5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (42-50)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 5 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 34.26 ft
 Screen Length: 1.5 ft
 Well Radius: 0.333 ft



42-50 RISING HEAD TEST 5

Data Set: N:\...\42-50-RH5.aqt
 Date: 05/06/13 Time: 12:34:32

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 42-50
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0009107$ cm/sec
 $y_0 = 2.607$ ft

AQUIFER DATA

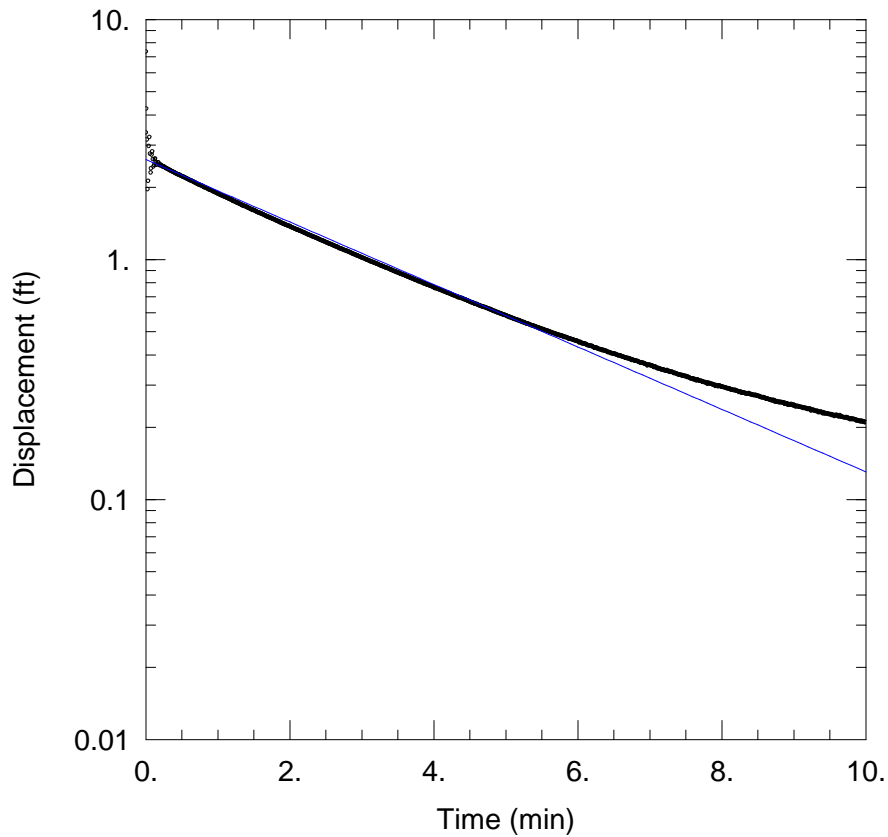
Saturated Thickness: 5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (42-50)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 5 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 34.26 ft
 Screen Length: 1.5 ft
 Well Radius: 0.333 ft



42-50 RISING HEAD TEST 6

Data Set: N:\...\42-50-RH6.aqt
 Date: 05/06/13 Time: 12:34:16

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 42-50
 Test Date: February 26, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0009107$ cm/sec
 $y_0 = 2.607$ ft

AQUIFER DATA

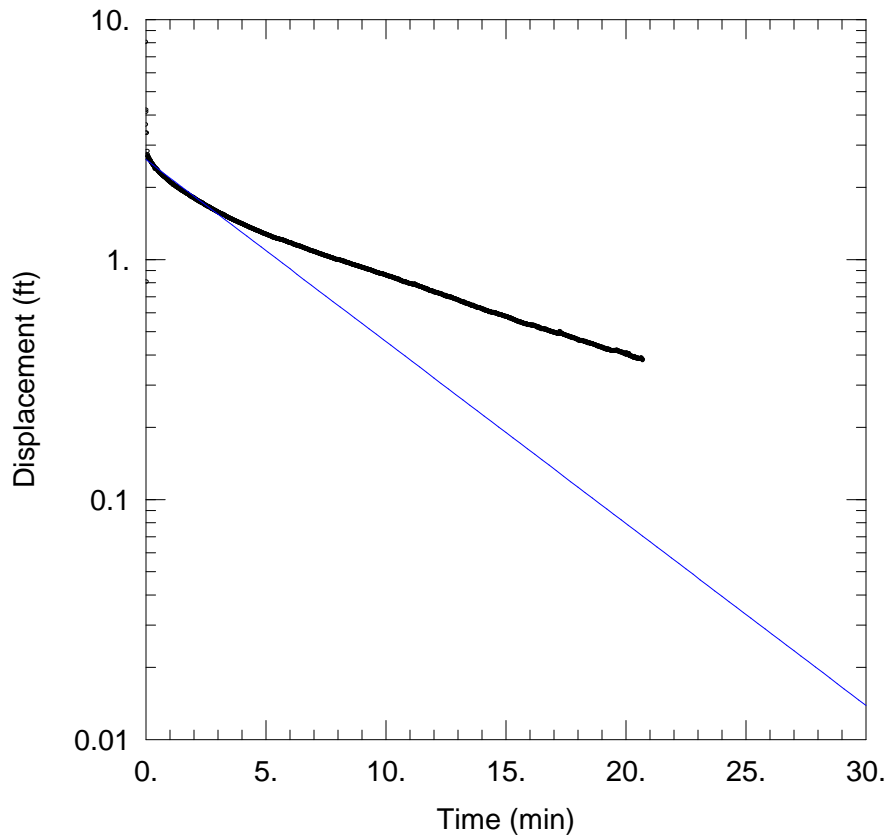
Saturated Thickness: 5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (42-50)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 5 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 34.26 ft
 Screen Length: 1.5 ft
 Well Radius: 0.333 ft



44-25 FALLING HEAD TEST 1

Data Set: N:\...\44-25-FH1.aqt

Date: 05/08/13

Time: 10:10:54

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 44-25

Test Date: February 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0001443 cm/sec

y0 = 2.607 ft

AQUIFER DATA

Saturated Thickness: 5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (44-25)

Initial Displacement: 3.375 ft

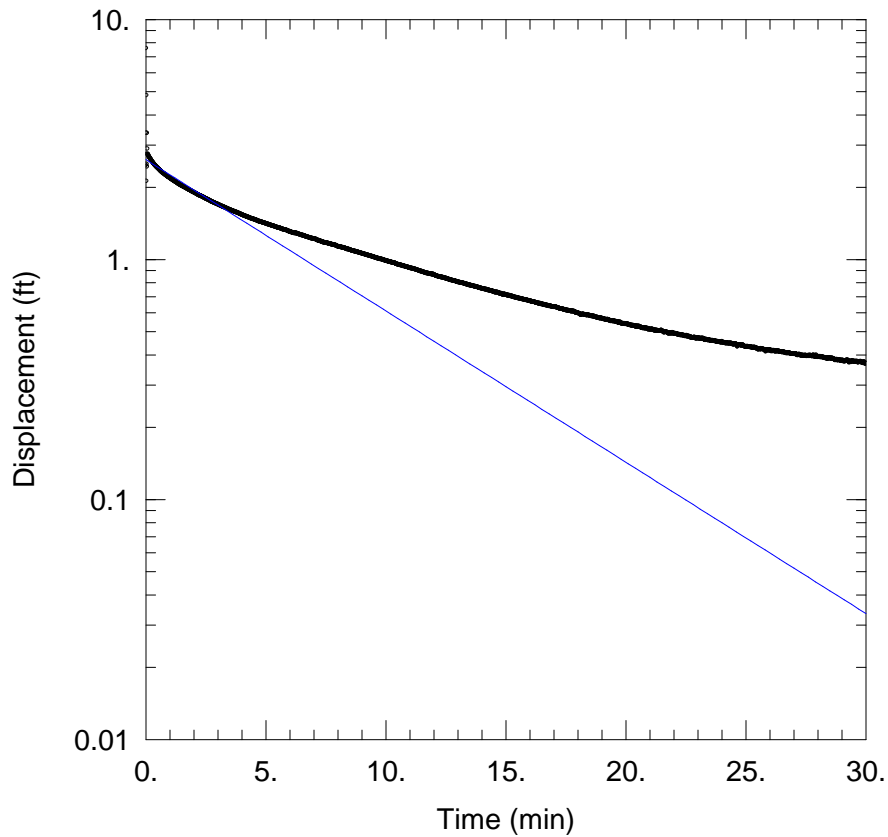
Total Well Penetration Depth: 10 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.1 ft

Screen Length: 5 ft

Well Radius: 0.3438 ft



44-25 FALLING HEAD TEST 2

Data Set: N:\...\44-25-FH2.aqt

Date: 05/08/13

Time: 10:11:08

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 44-25

Test Date: February 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0001201 cm/sec

y0 = 2.607 ft

AQUIFER DATA

Saturated Thickness: 5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (44-25)

Initial Displacement: 3.375 ft

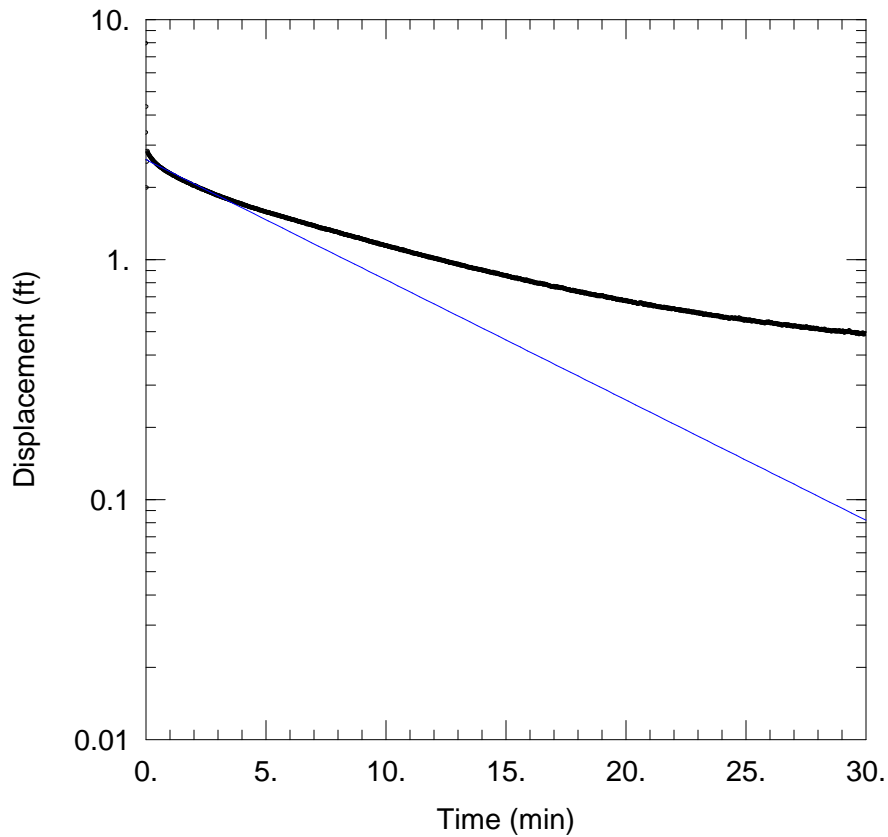
Total Well Penetration Depth: 10 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.1 ft

Screen Length: 5 ft

Well Radius: 0.3438 ft



44-25 FALLING HEAD TEST 3

Data Set: N:\...\44-25-FH3.aqt
 Date: 05/08/13 Time: 10:11:25

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 44-25
 Test Date: February 25, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 9.536E-5$ cm/sec
 $y_0 = 2.607$ ft

AQUIFER DATA

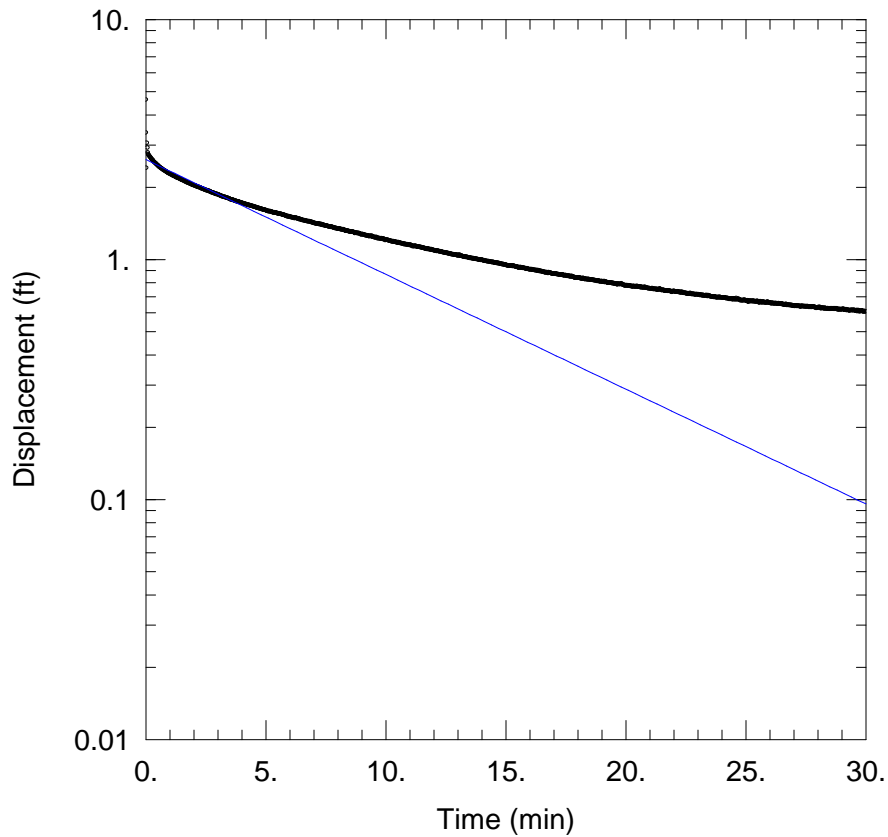
Saturated Thickness: 5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (44-25)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 10 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 15.1 ft
 Screen Length: 5 ft
 Well Radius: 0.3438 ft



44-25 FALLING HEAD TEST 4

Data Set: N:\...\44-25-FH4.aqt
 Date: 05/08/13 Time: 10:10:41

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 44-25
 Test Date: February 25, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 9.107E-5$ cm/sec
 $y_0 = 2.607$ ft

AQUIFER DATA

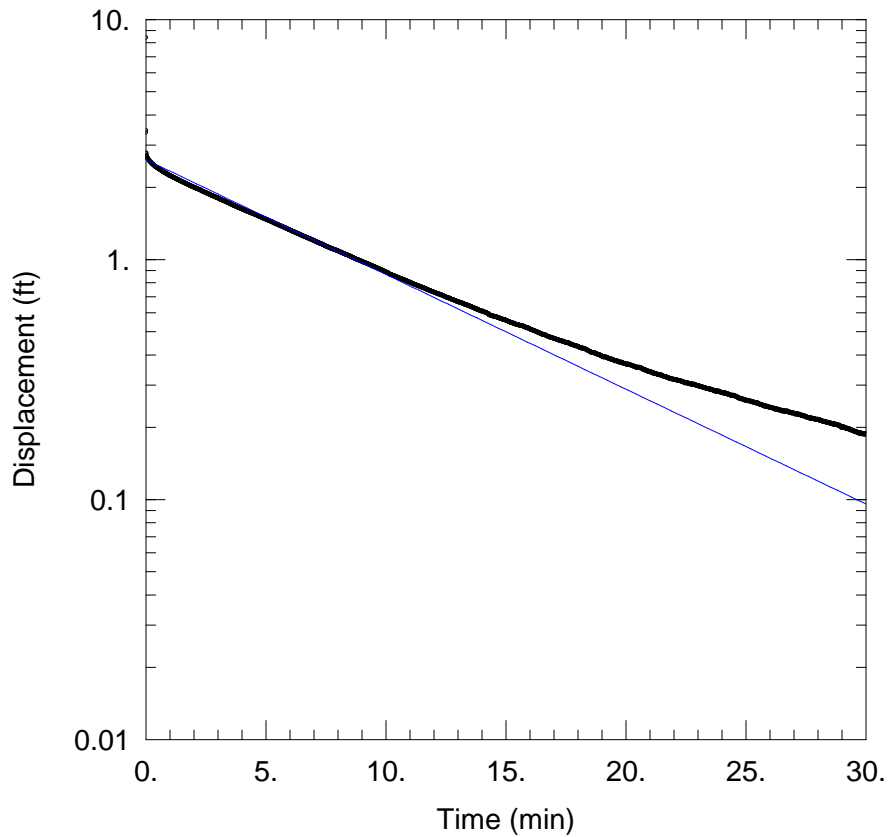
Saturated Thickness: 5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (44-25)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 10 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 15.1 ft
 Screen Length: 5 ft
 Well Radius: 0.3438 ft



44-25 RISING HEAD TEST 1

Data Set: N:\...\44-25-RH1.aqt

Date: 05/08/13

Time: 10:14:57

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 44-25

Test Date: February 24, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 9.107E-5$ cm/sec

$y_0 = 2.607$ ft

AQUIFER DATA

Saturated Thickness: 5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (44-25)

Initial Displacement: 3.375 ft

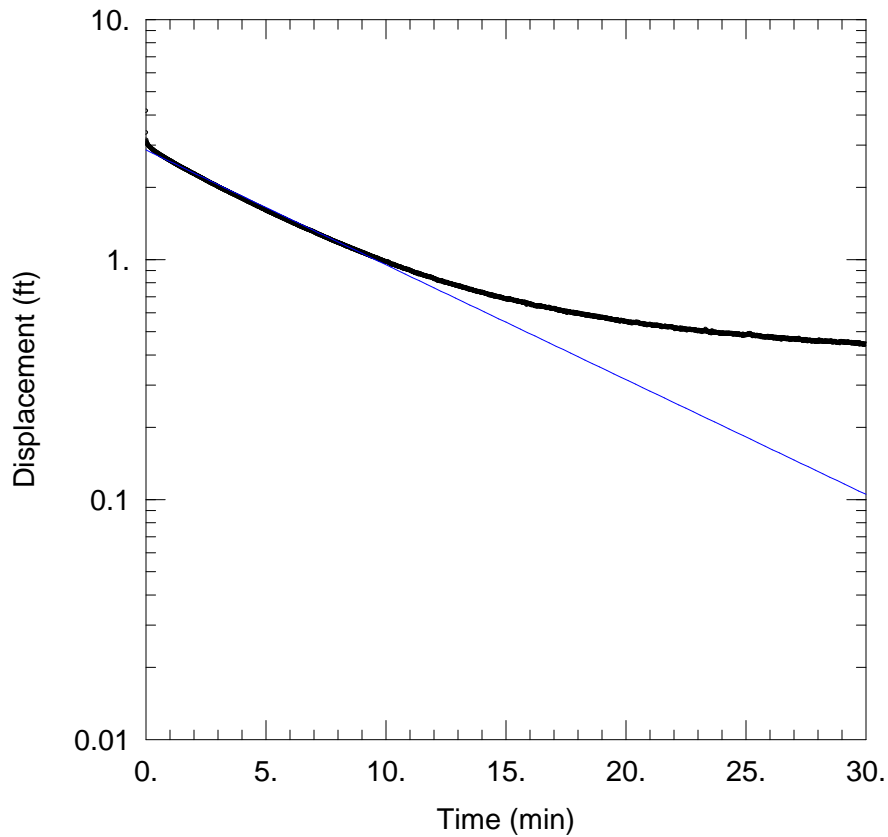
Total Well Penetration Depth: 10 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.1 ft

Screen Length: 5 ft

Well Radius: 0.3438 ft



44-25 RISING HEAD TEST 2

Data Set: N:\...\44-25-RH2.aqt
 Date: 05/08/13 Time: 10:10:06

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 44-25
 Test Date: February 25, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 9.107E-5$ cm/sec
 $y_0 = 2.858$ ft

AQUIFER DATA

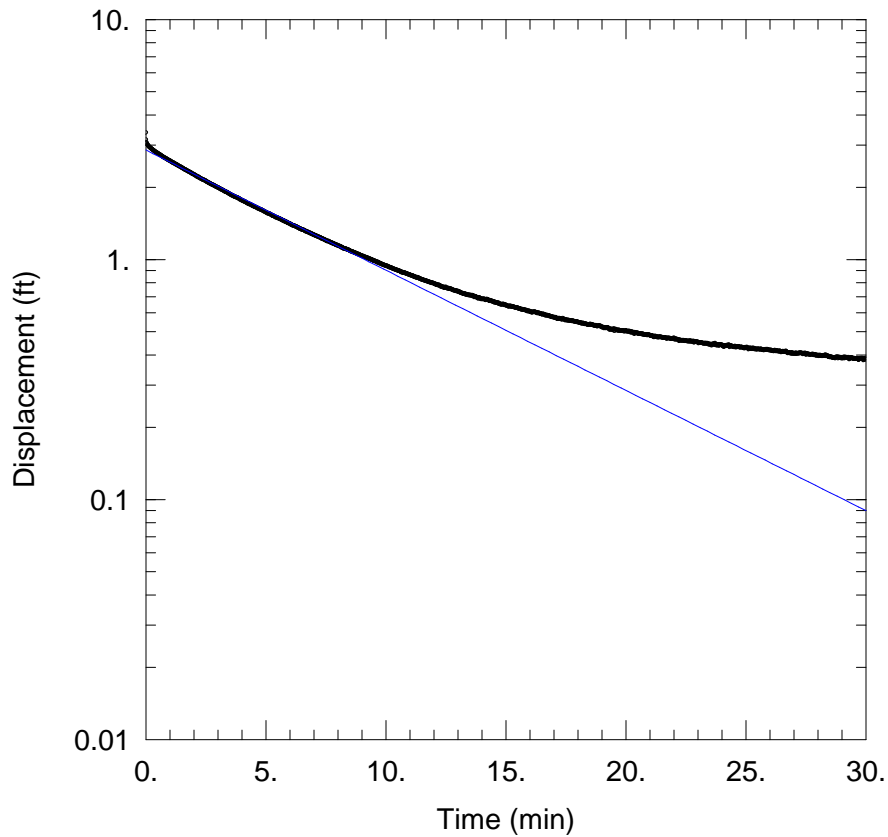
Saturated Thickness: 5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (44-25)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 10 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 15.1 ft
 Screen Length: 5 ft
 Well Radius: 0.3438 ft



44-25 RISING HEAD TEST 3

Data Set: N:\...\44-25-RH3.aqt
 Date: 05/08/13 Time: 10:09:53

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 44-25
 Test Date: February 25, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 9.536E-5$ cm/sec
 $y_0 = 2.858$ ft

AQUIFER DATA

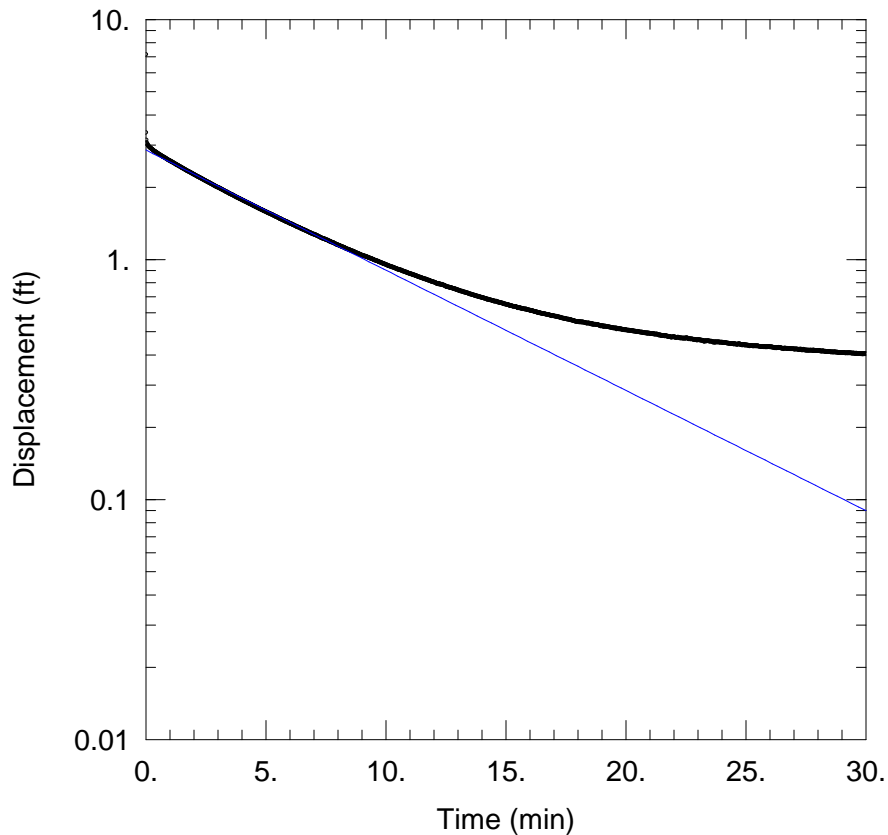
Saturated Thickness: 5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (44-25)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 10 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 15.1 ft
 Screen Length: 5 ft
 Well Radius: 0.3438 ft



44-25 RISING HEAD TEST 4

Data Set: N:\...\44-25-RH4.aqt
 Date: 05/08/13 Time: 10:09:39

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 44-25
 Test Date: February 25, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 9.536E-5$ cm/sec
 $y_0 = 2.858$ ft

AQUIFER DATA

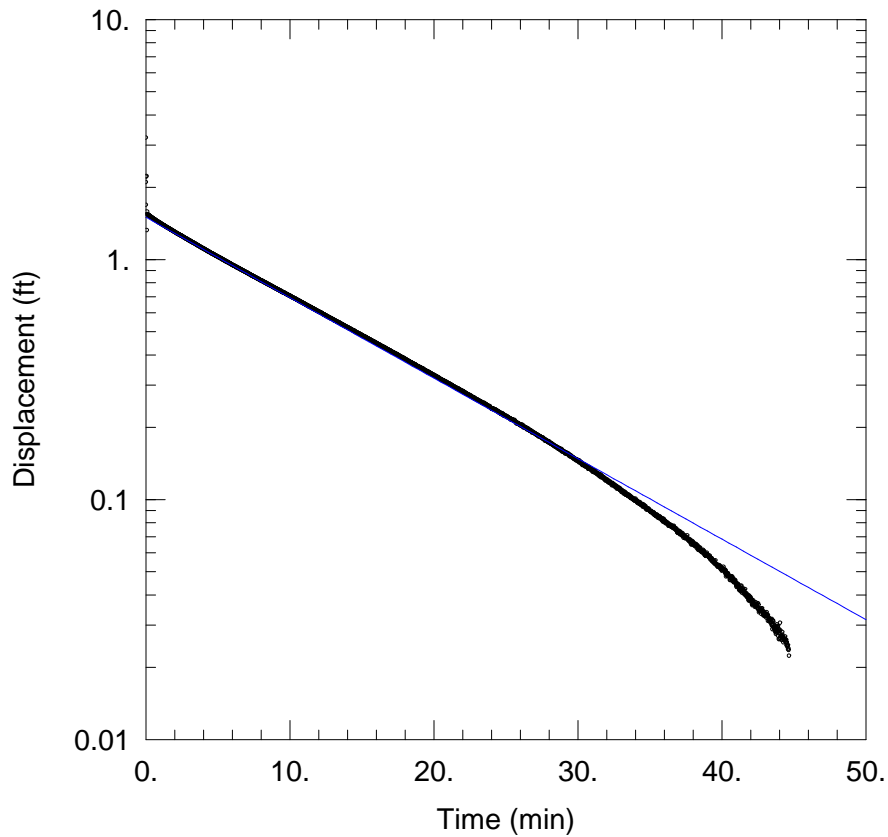
Saturated Thickness: 5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (44-25)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 10 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 15.1 ft
 Screen Length: 5 ft
 Well Radius: 0.3438 ft



44-50 FALLING HEAD TEST 1

Data Set: N:\...\44-50-FH1.aqt
 Date: 05/08/13 Time: 10:33:04

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 44-50
 Test Date: February 14, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 9.107E-5$ cm/sec
 $y_0 = 1.5$ ft

AQUIFER DATA

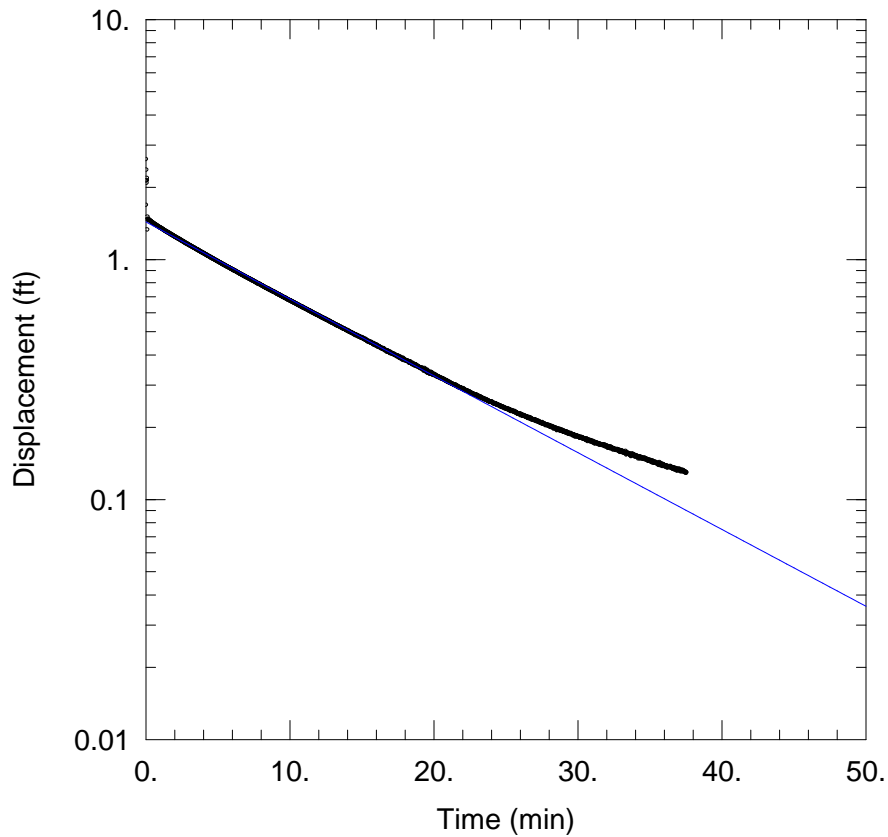
Saturated Thickness: 8.42 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (44-50)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 8.42 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 36.94 ft
 Screen Length: 4.92 ft
 Well Radius: 0.333 ft



44-50 FALLING HEAD TEST 2

Data Set: N:\...\44-50-FH2.aqt

Date: 05/08/13

Time: 10:32:51

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 44-50

Test Date: February 18, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 8.697E-5 cm/sec

y0 = 1.433 ft

AQUIFER DATA

Saturated Thickness: 8.42 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (44-50)

Initial Displacement: 1.688 ft

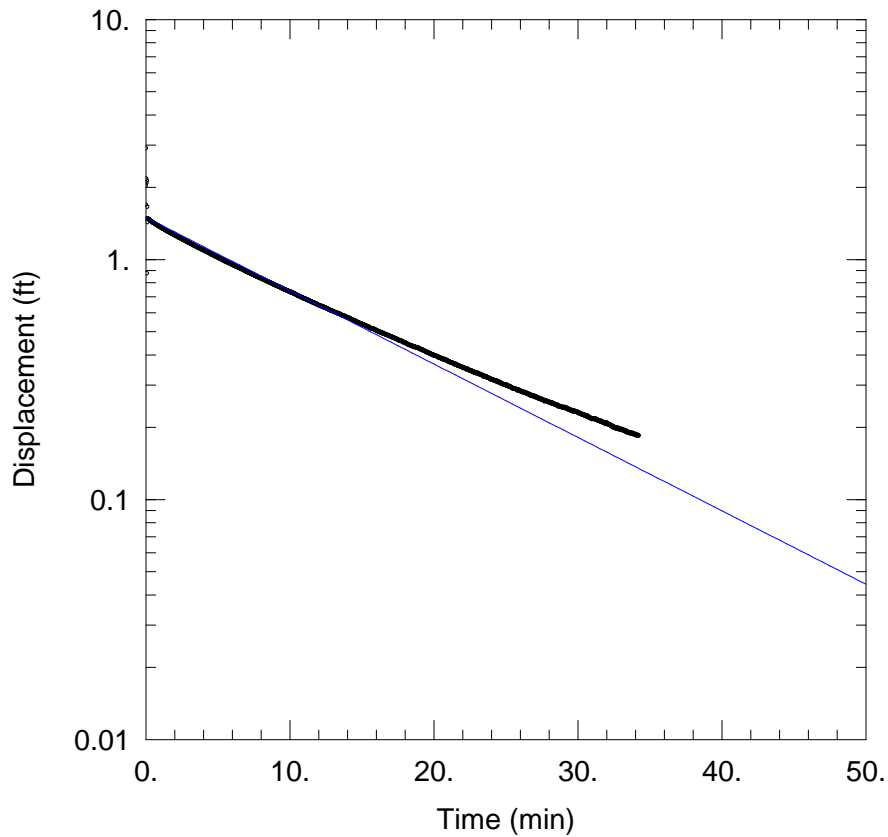
Total Well Penetration Depth: 8.42 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 36.94 ft

Screen Length: 4.92 ft

Well Radius: 0.333 ft



44-50 FALLING HEAD TEST 3

Data Set: N:\...\44-50-FH3.aqt
 Date: 05/08/13 Time: 10:32:38

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 44-50
 Test Date: February 19, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 8.306E-5$ cm/sec
 $y_0 = 1.5$ ft

AQUIFER DATA

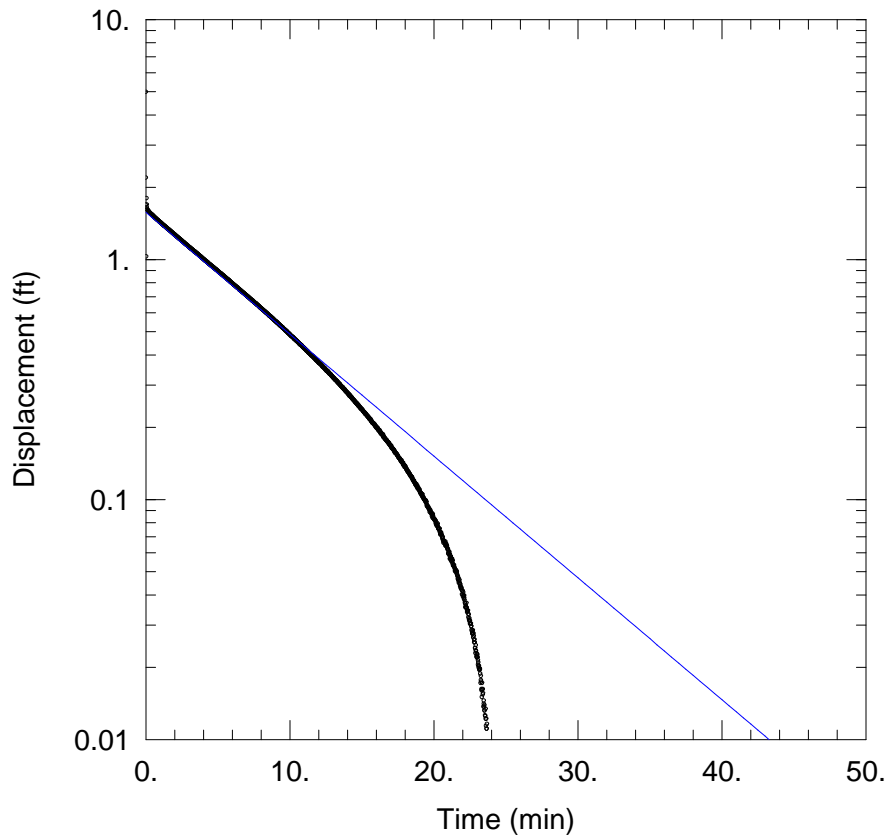
Saturated Thickness: 8.42 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (44-50)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 8.42 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 36.94 ft
 Screen Length: 4.92 ft
 Well Radius: 0.333 ft



44-50 RISING HEAD TEST 1

Data Set: N:\...\44-50-RH1.aqt

Date: 05/08/13

Time: 10:31:54

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 44-50

Test Date: February 18, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0001378 cm/sec

y0 = 1.571 ft

AQUIFER DATA

Saturated Thickness: 8.42 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (44-50)

Initial Displacement: 1.688 ft

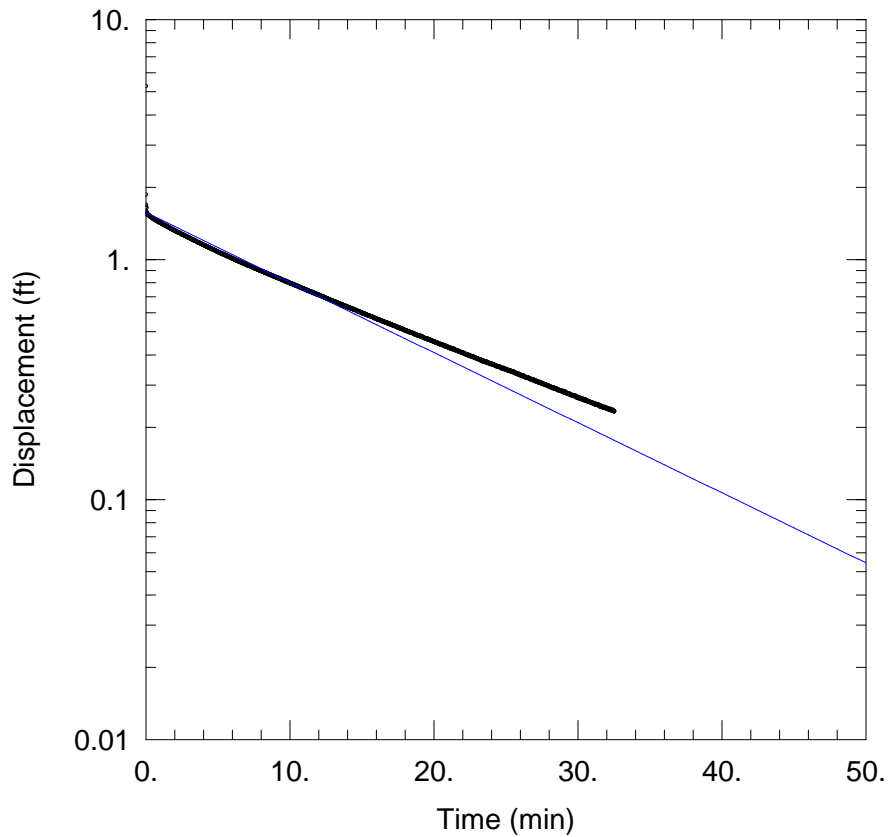
Total Well Penetration Depth: 8.42 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 36.94 ft

Screen Length: 4.92 ft

Well Radius: 0.333 ft



44-50 RISING HEAD TEST 2

Data Set: N:\...\44-50-RH2.aqt
 Date: 05/08/13 Time: 10:31:38

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 44-50
 Test Date: February 19, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 7.932E-5$ cm/sec
 $y_0 = 1.571$ ft

AQUIFER DATA

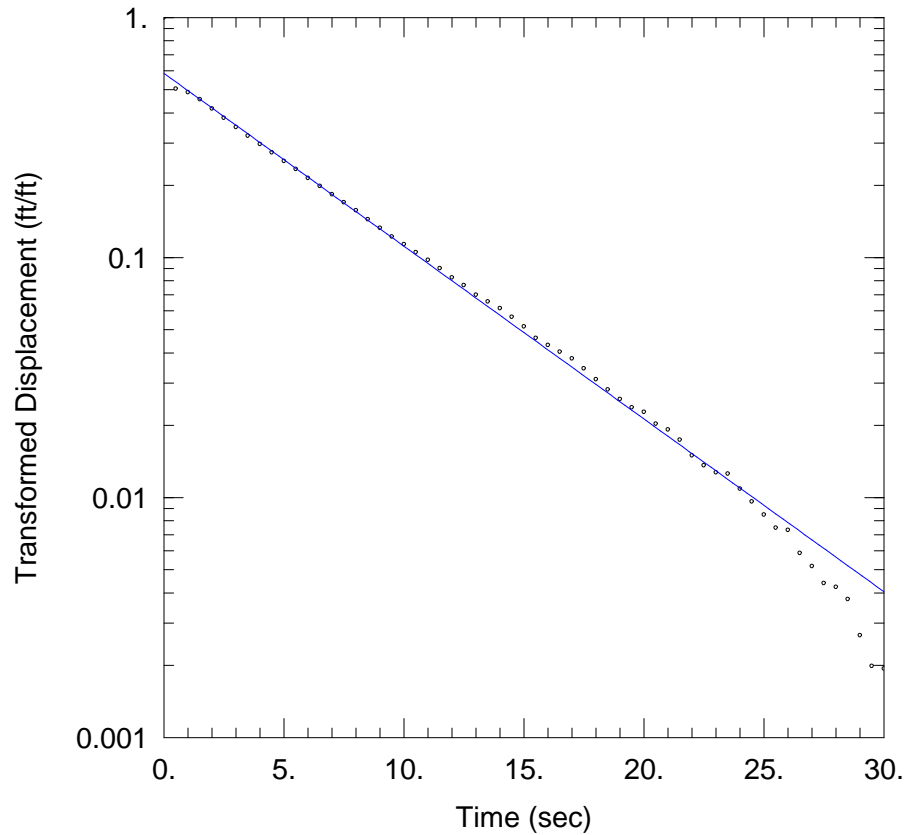
Saturated Thickness: 8.42 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (44-50)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 8.42 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 36.94 ft
 Screen Length: 4.92 ft
 Well Radius: 0.333 ft



49-15 RISING HEAD TEST 1

Data Set: N:\...\49-15-RH1.aqt

Date: 05/06/13

Time: 13:05:56

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 49-15

Test Date: March 2, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.03448 cm/sec

y0 = 1.038 ft

AQUIFER DATA

Saturated Thickness: 8.19 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (49-15)

Initial Displacement: 1.688 ft

Total Well Penetration Depth: 7.19 ft

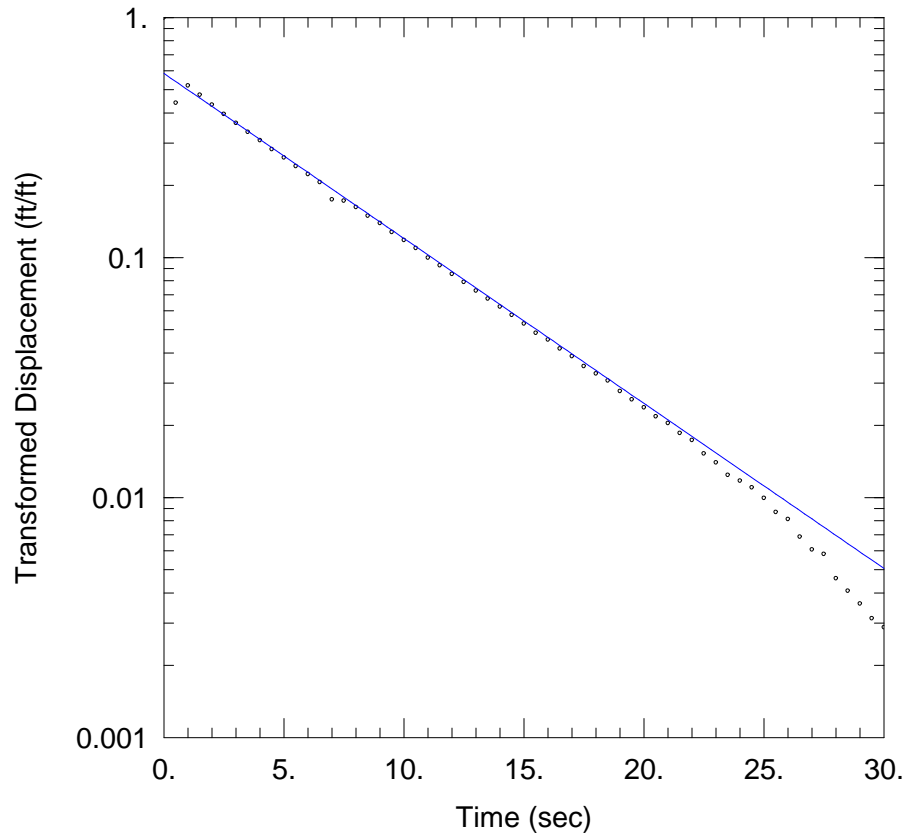
Casing Radius: 0.0835 ft

Static Water Column Height: 7.19 ft

Screen Length: 7.19 ft

Well Radius: 0.333 ft

Gravel Pack Porosity: 0.3



49-15 RISING HEAD TEST 2

Data Set: N:\...\49-15-RH2.aqt
 Date: 05/06/13 Time: 13:05:43

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 49-15
 Test Date: March 2, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Dagan
 $K = 0.03292$ cm/sec
 $y_0 = 1.038$ ft

AQUIFER DATA

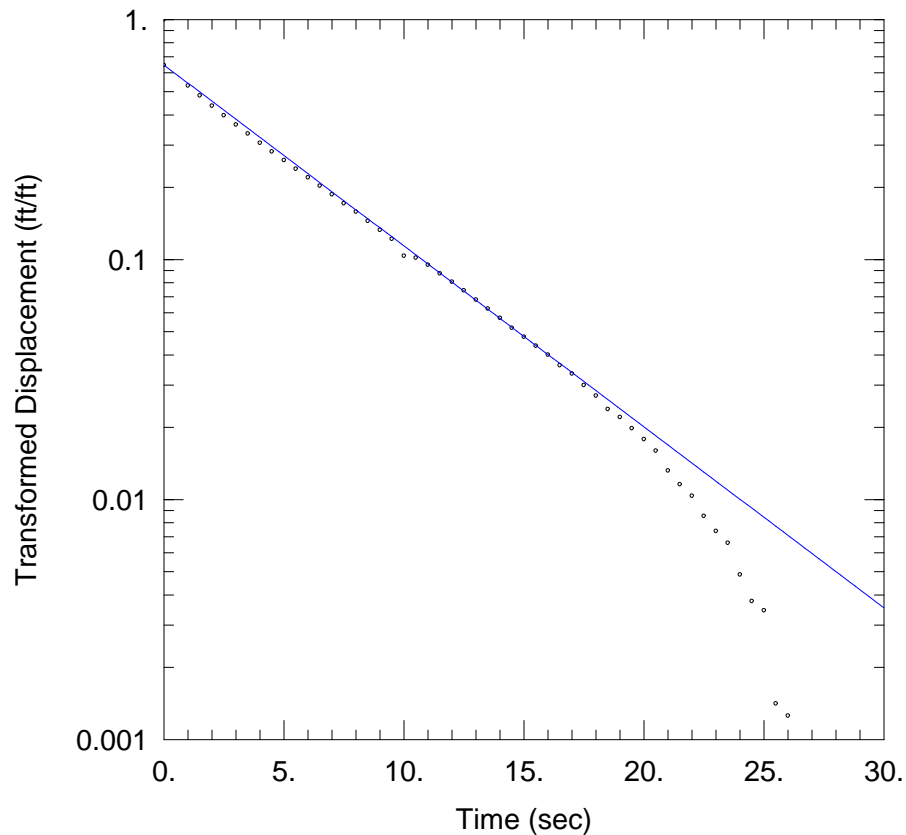
Saturated Thickness: 8.19 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (49-15)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 7.19 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 7.19 ft
 Screen Length: 7.19 ft
 Well Radius: 0.333 ft
 Gravel Pack Porosity: 0.3



49-15 RISING HEAD TEST 3

Data Set: N:\...\49-15-RH3.aqt
 Date: 05/06/13 Time: 13:05:31

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 49-15
 Test Date: March 2, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Dagan
 $K = 0.0361$ cm/sec
 $y_0 = 1.138$ ft

AQUIFER DATA

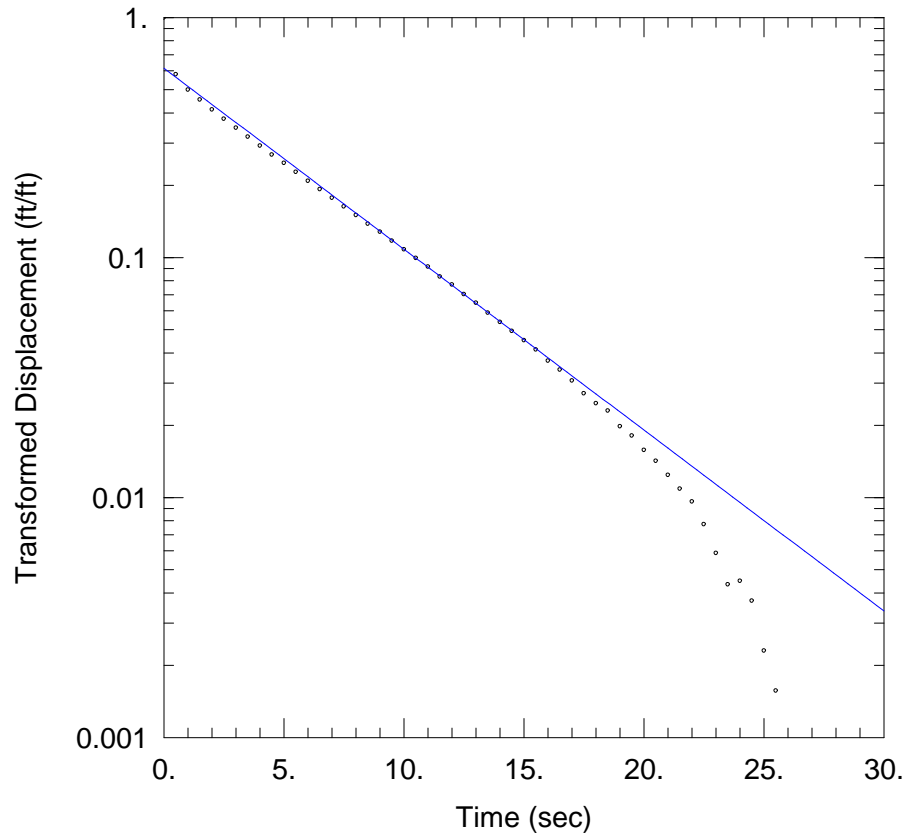
Saturated Thickness: 8.19 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (49-15)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 7.19 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 7.19 ft
 Screen Length: 7.19 ft
 Well Radius: 0.333 ft
 Gravel Pack Porosity: 0.3



49-15 RISING HEAD TEST 4

Data Set: N:\...\49-15-RH4.aqt
 Date: 05/06/13 Time: 13:05:18

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 49-15
 Test Date: March 2, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Dagan
 $K = 0.0361$ cm/sec
 $y_0 = 1.087$ ft

AQUIFER DATA

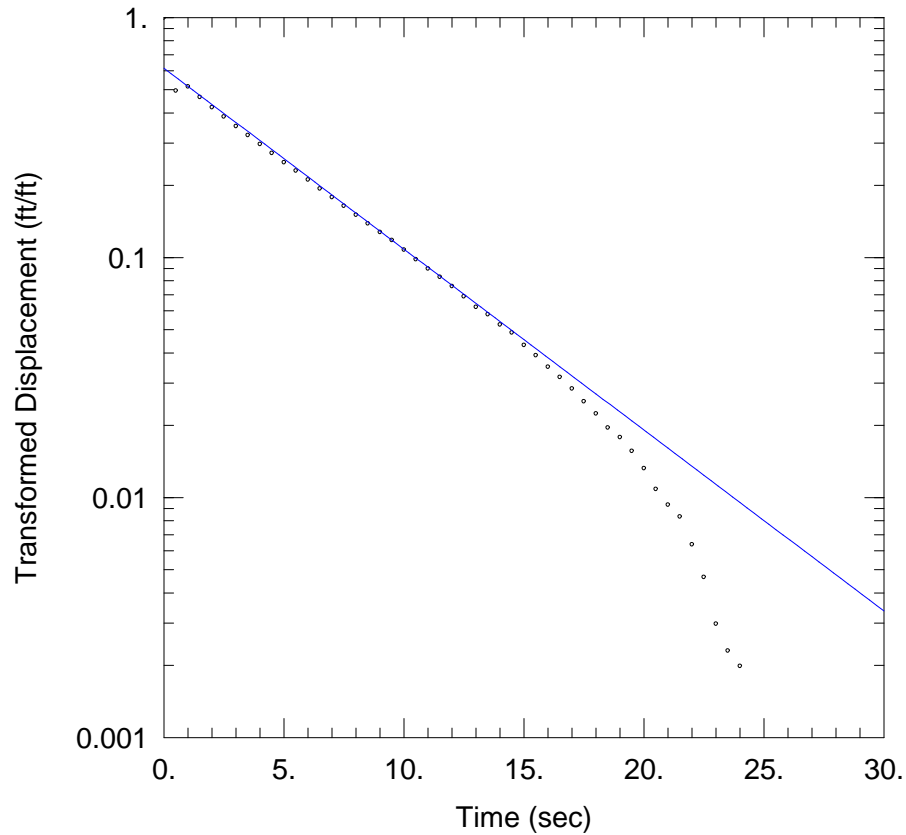
Saturated Thickness: 8.19 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (49-15)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 7.19 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 7.19 ft
 Screen Length: 7.19 ft
 Well Radius: 0.333 ft
 Gravel Pack Porosity: 0.3



49-15 RISING HEAD TEST 5

Data Set: N:\...\49-15-RH5.aqt
 Date: 05/06/13 Time: 13:05:04

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 49-15
 Test Date: March 2, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Dagan
 K = 0.0361 cm/sec
 y0 = 1.087 ft

AQUIFER DATA

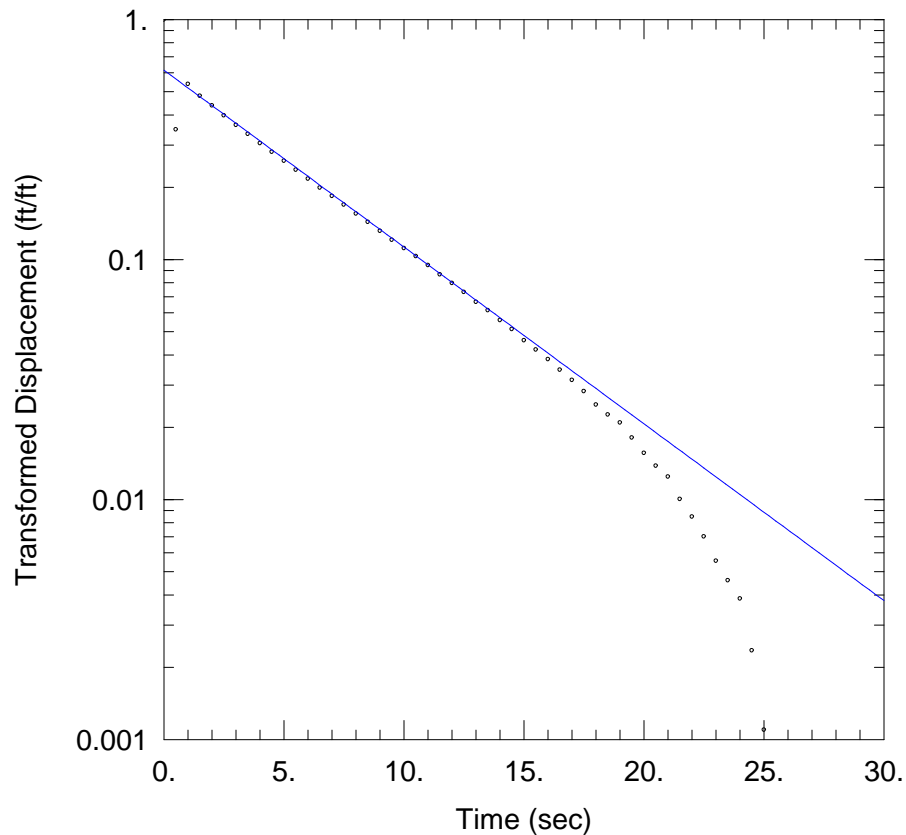
Saturated Thickness: 8.19 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (49-15)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 7.19 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 7.19 ft
 Screen Length: 7.19 ft
 Well Radius: 0.333 ft
 Gravel Pack Porosity: 0.3



49-15 RISING HEAD TEST 6

Data Set: N:\...\49-15-RH6.aqt
 Date: 05/06/13 Time: 13:04:48

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 49-15
 Test Date: March 2, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Dagan
 $K = 0.03528$ cm/sec
 $y_0 = 1.087$ ft

AQUIFER DATA

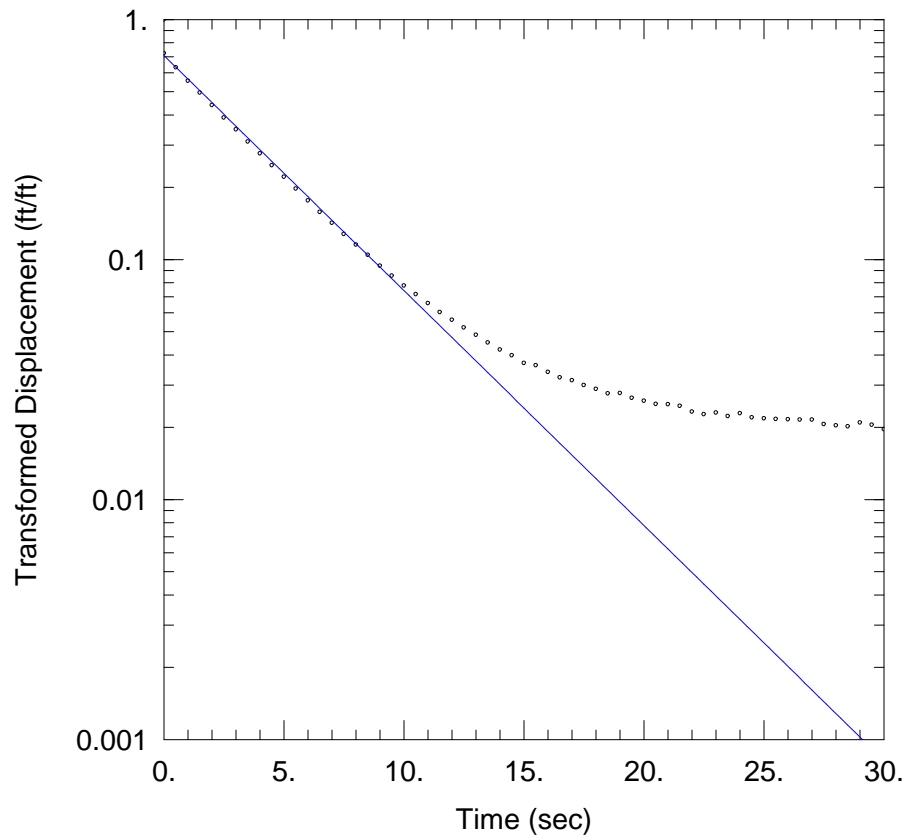
Saturated Thickness: 8.19 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (49-15)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 7.19 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 7.19 ft
 Screen Length: 7.19 ft
 Well Radius: 0.333 ft
 Gravel Pack Porosity: 0.3



50-15 RISING HEAD TEST 1

Data Set: N:\...\50-15-RH1.aqt
 Date: 05/06/13 Time: 13:38:10

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 50-15
 Test Date: March 1, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Dagan
 $K = 0.05722$ cm/sec
 $y_0 = 1.248$ ft

AQUIFER DATA

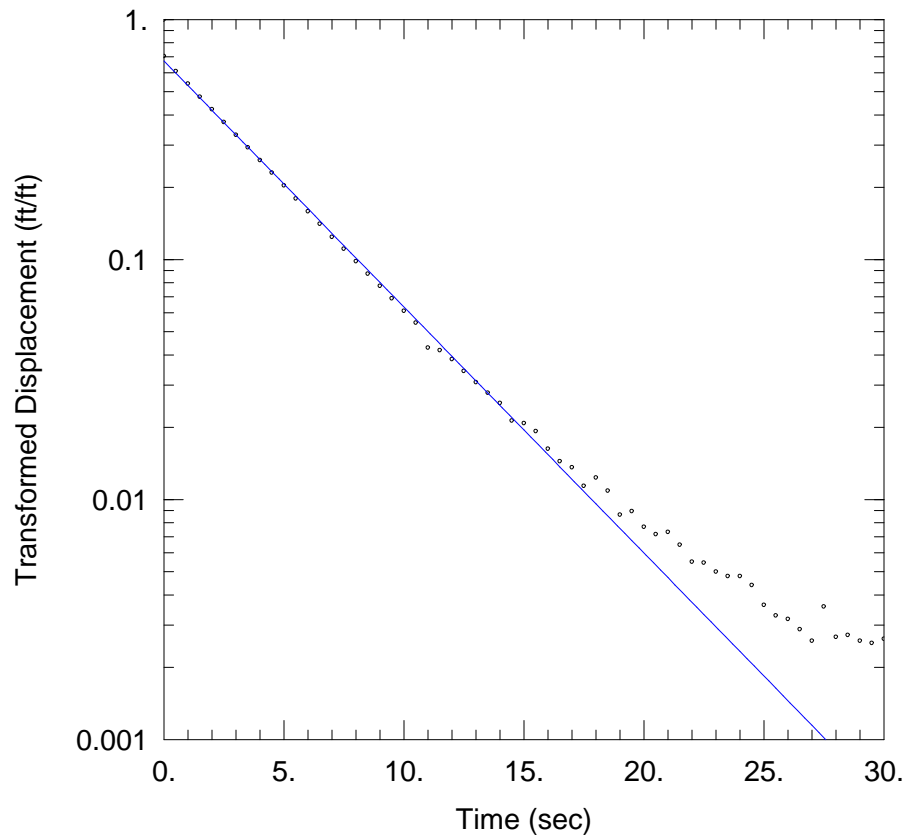
Saturated Thickness: 5.69 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (50-15)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 5.69 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 5.69 ft
 Screen Length: 5.69 ft
 Well Radius: 0.333 ft
 Gravel Pack Porosity: 0.3



50-15 RISING HEAD TEST 2

Data Set: N:\...\50-15-RH2.aqt

Date: 05/06/13

Time: 13:37:57

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 50-15

Test Date: March 1, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.05991 cm/sec

y0 = 1.192 ft

AQUIFER DATA

Saturated Thickness: 5.69 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (50-15)

Initial Displacement: 1.688 ft

Total Well Penetration Depth: 5.69 ft

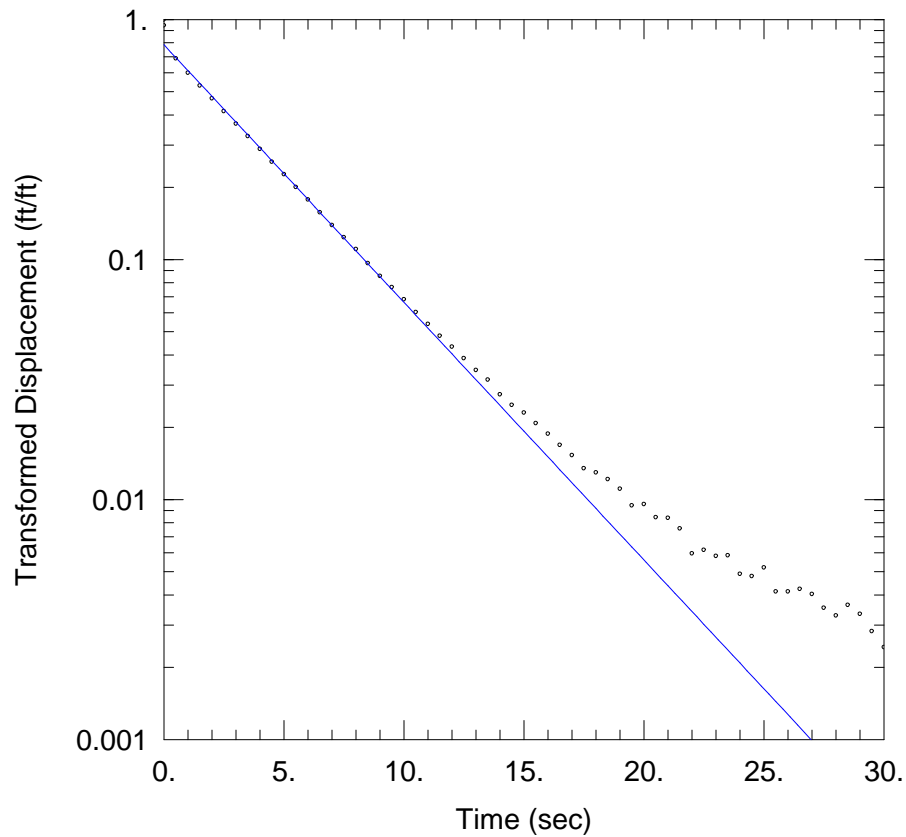
Casing Radius: 0.0835 ft

Static Water Column Height: 5.69 ft

Screen Length: 5.69 ft

Well Radius: 0.333 ft

Gravel Pack Porosity: 0.3



50-15 RISING HEAD TEST 3

Data Set: N:\...\50-15-RH3.aqt
 Date: 05/06/13 Time: 13:37:45

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 50-15
 Test Date: March 1, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Dagan
 $K = 0.06274$ cm/sec
 $y_0 = 1.368$ ft

AQUIFER DATA

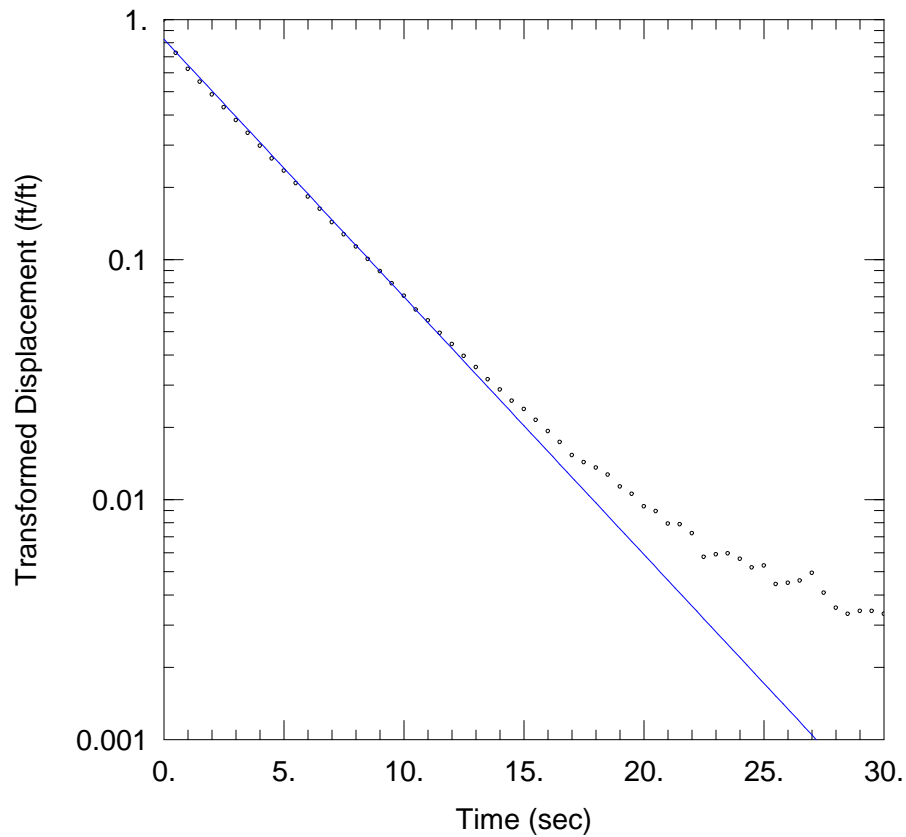
Saturated Thickness: 5.69 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (50-15)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 5.69 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 5.69 ft
 Screen Length: 5.69 ft
 Well Radius: 0.333 ft
 Gravel Pack Porosity: 0.3



50-15 RISING HEAD TEST 4

Data Set: N:\...\50-15-RH4.aqt
 Date: 05/06/13 Time: 13:37:32

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 50-15
 Test Date: March 1, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Dagan
 $K = 0.06274$ cm/sec
 $y_0 = 1.433$ ft

AQUIFER DATA

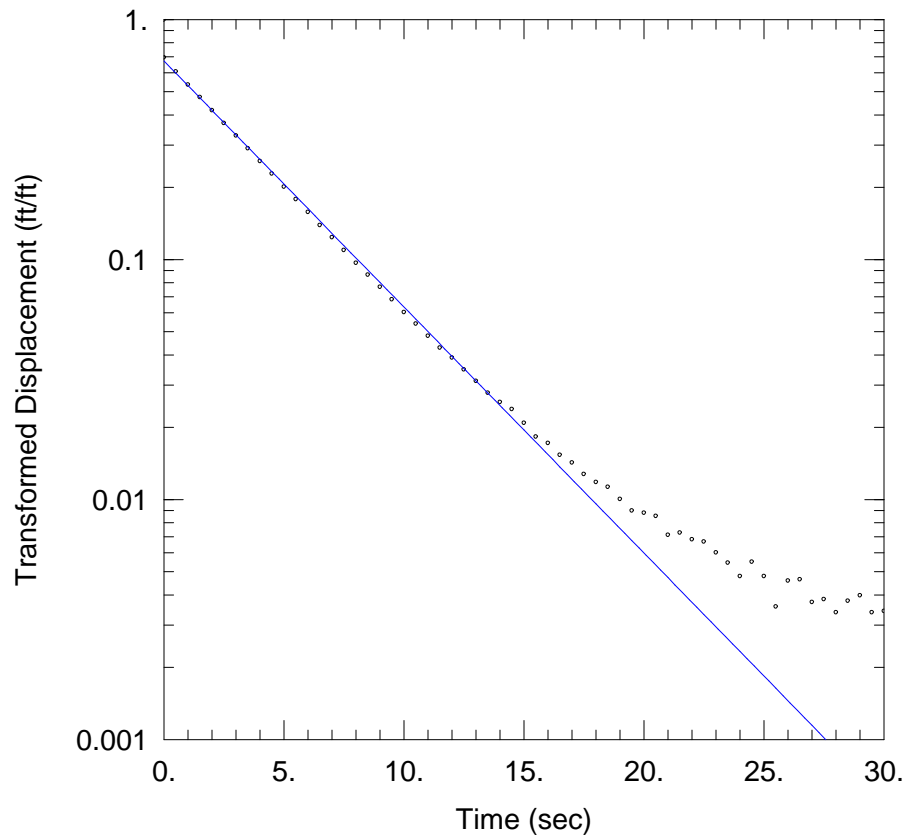
Saturated Thickness: 5.69 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (50-15)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 5.69 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 5.69 ft
 Screen Length: 5.69 ft
 Well Radius: 0.333 ft
 Gravel Pack Porosity: 0.3



50-15 RISING HEAD TEST 5

Data Set: N:\...\50-15-RH5.aqt
 Date: 05/06/13 Time: 13:37:20

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 50-15
 Test Date: March 1, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Dagan
 $K = 0.05991$ cm/sec
 $y0 = 1.192$ ft

AQUIFER DATA

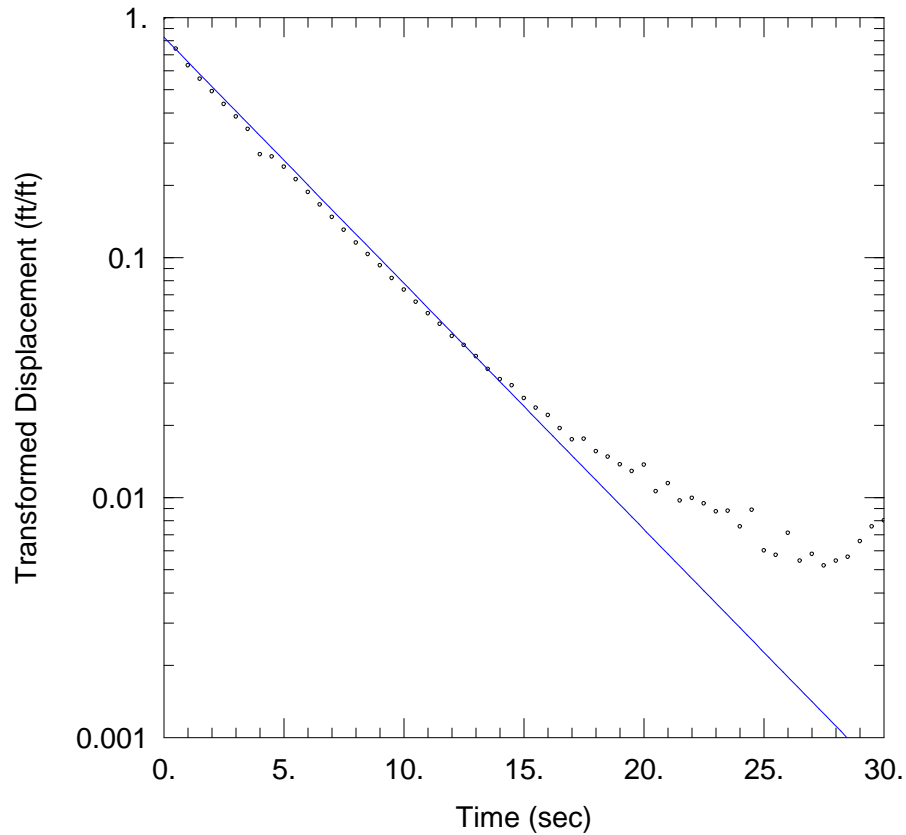
Saturated Thickness: 5.69 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (50-15)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 5.69 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 5.69 ft
 Screen Length: 5.69 ft
 Well Radius: 0.333 ft
 Gravel Pack Porosity: 0.3



50-15 RISING HEAD TEST 6

Data Set: N:\...\50-15-RH6.aqt
 Date: 05/06/13 Time: 13:37:06

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 50-15
 Test Date: March 1, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Dagan
 $K = 0.05991$ cm/sec
 $y_0 = 1.433$ ft

AQUIFER DATA

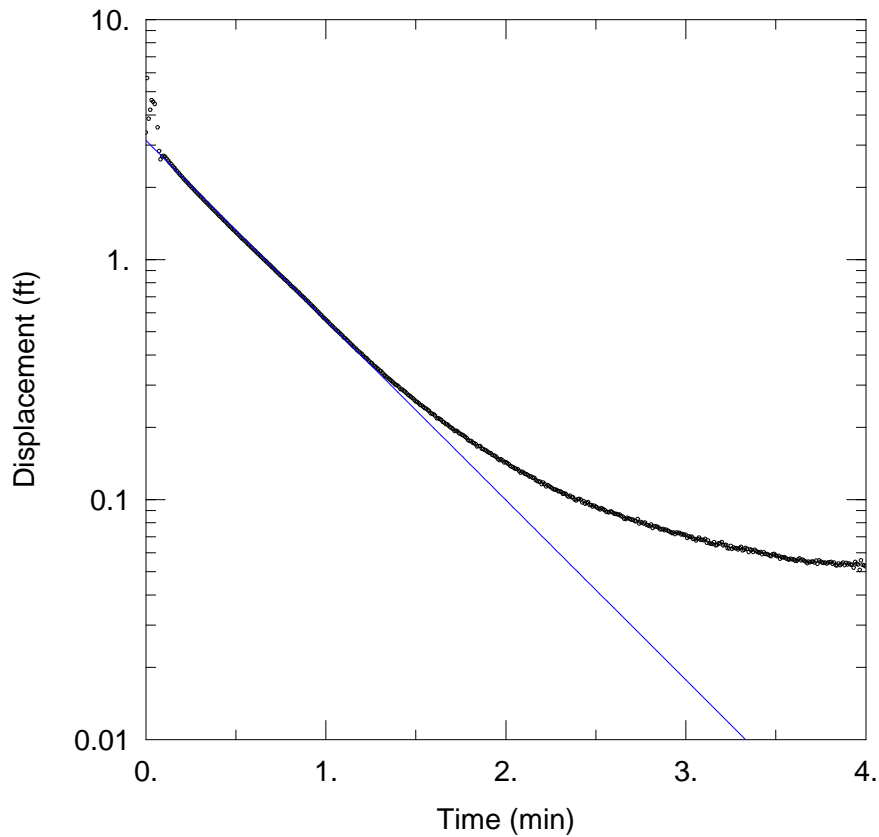
Saturated Thickness: 5.69 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (50-15)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 5.69 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 5.69 ft
 Screen Length: 5.69 ft
 Well Radius: 0.333 ft
 Gravel Pack Porosity: 0.3



5-100 FALLING HEAD TEST 1

Data Set: N:\...\5-100-FH1.aqt

Date: 05/01/13

Time: 14:02:08

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 5-100

Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.004564$ cm/sec

$y_0 = 3.134$ ft

AQUIFER DATA

Saturated Thickness: 5.81 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (5-100)

Initial Displacement: 3.375 ft

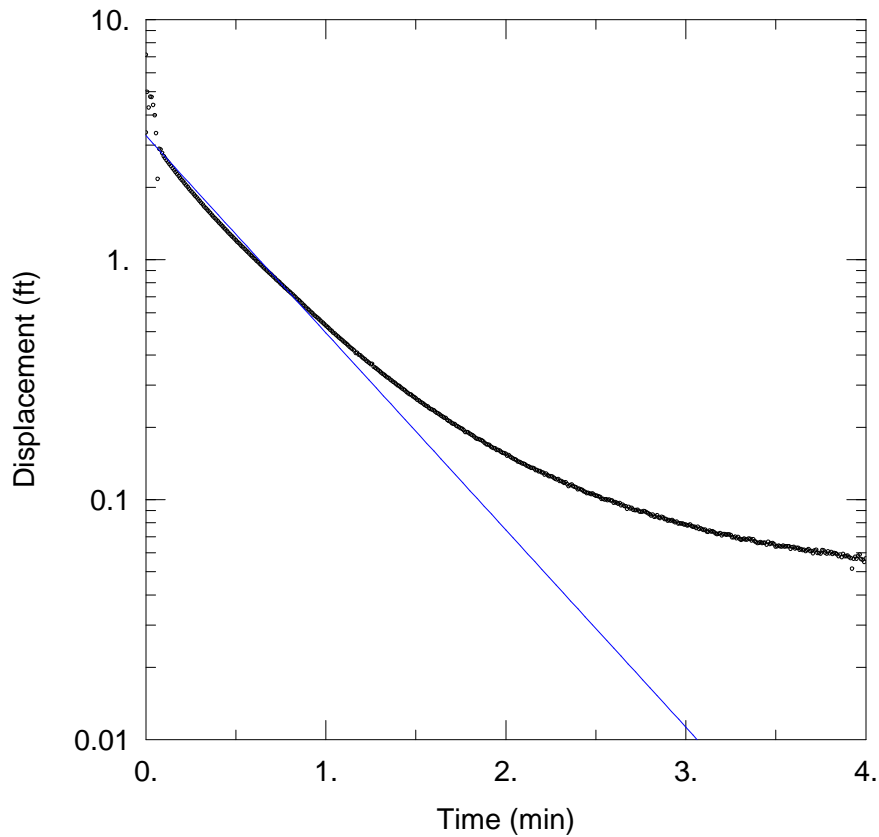
Total Well Penetration Depth: 5.81 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 86.49 ft

Screen Length: 1.81 ft

Well Radius: 0.3438 ft



5-100 FALLING HEAD TEST 2

Data Set: N:\...\5-100-FH2.aqt
 Date: 05/01/13 Time: 14:01:48

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 5-100
 Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.005005$ cm/sec
 $y_0 = 3.282$ ft

AQUIFER DATA

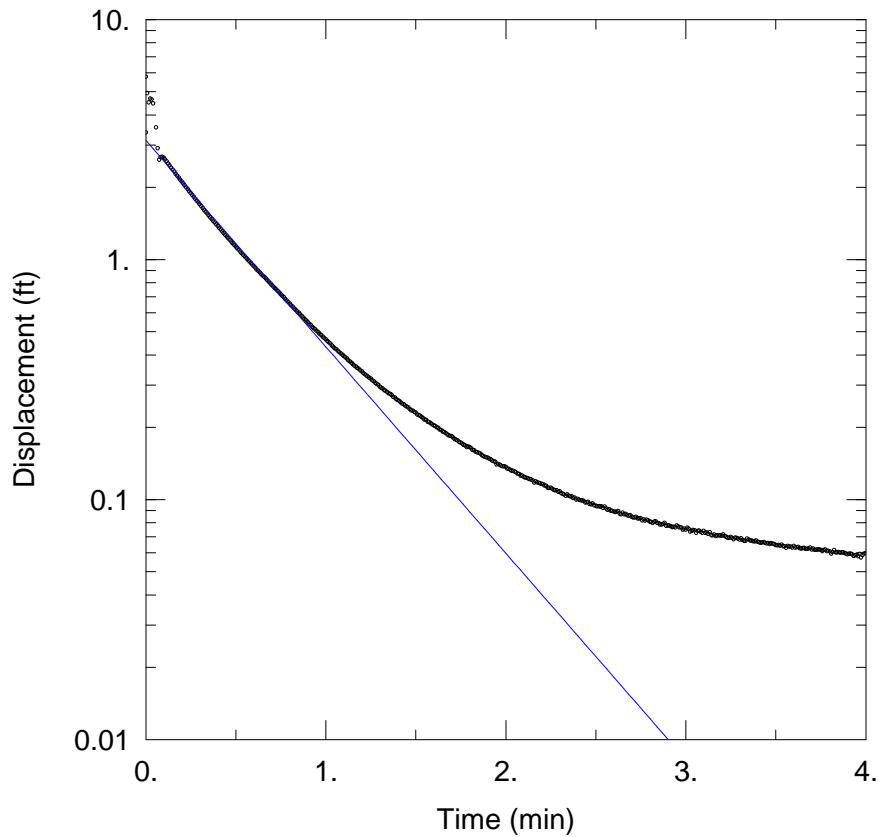
Saturated Thickness: 5.81 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (5-100)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 5.81 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 86.49 ft
 Screen Length: 1.81 ft
 Well Radius: 0.3438 ft



5-100 FALLING HEAD TEST 3

Data Set: N:\...\5-100-FH3.aqt

Date: 05/01/13

Time: 14:01:30

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 5-100

Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.00524 cm/sec

y0 = 3.134 ft

AQUIFER DATA

Saturated Thickness: 5.81 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (5-100)

Initial Displacement: 3.375 ft

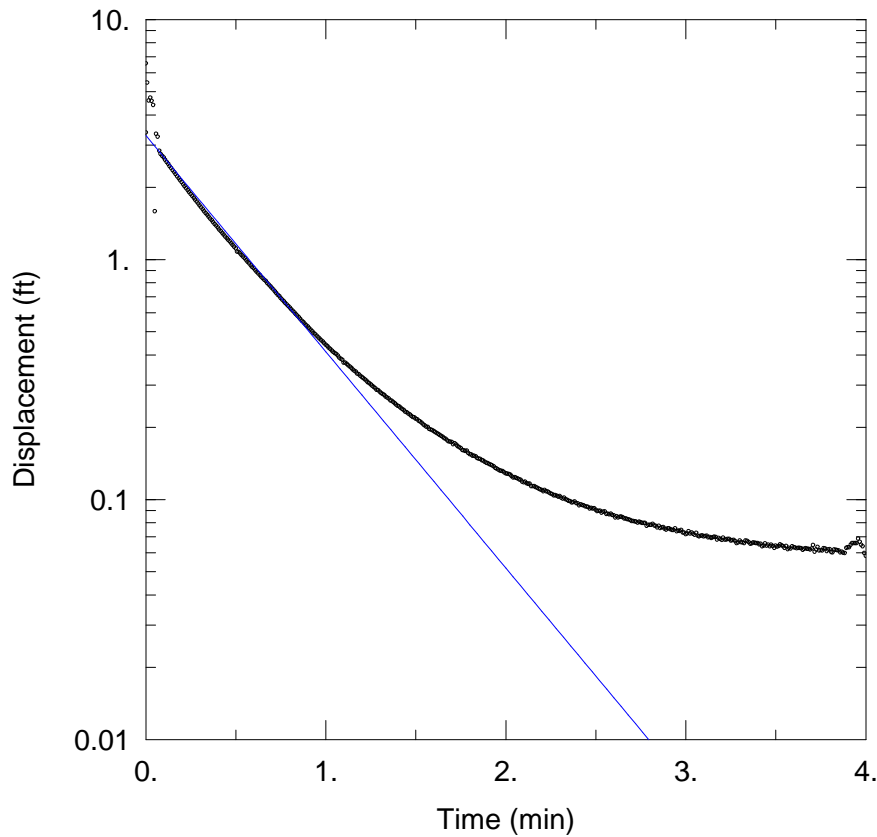
Total Well Penetration Depth: 5.81 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 86.49 ft

Screen Length: 1.81 ft

Well Radius: 0.3438 ft



5-100 FALLING HEAD TEST 4

Data Set: N:\...\5-100-FH4.aqt

Date: 05/01/13

Time: 14:01:08

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 5-100

Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.005487 cm/sec

y0 = 3.282 ft

AQUIFER DATA

Saturated Thickness: 5.81 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (5-100)

Initial Displacement: 3.375 ft

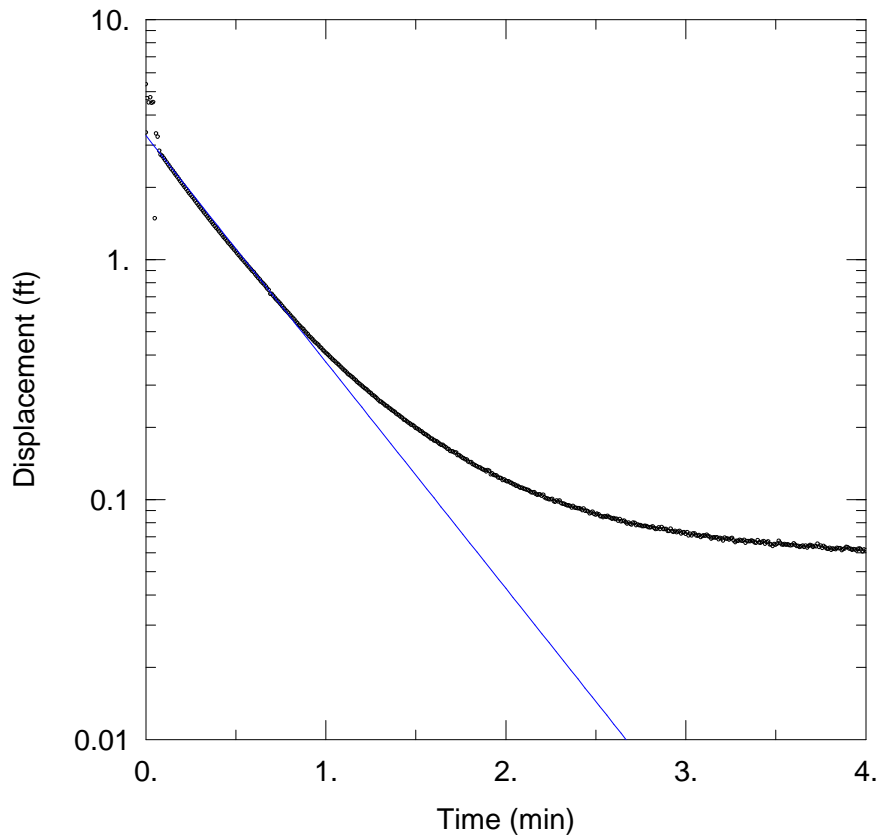
Total Well Penetration Depth: 5.81 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 86.49 ft

Screen Length: 1.81 ft

Well Radius: 0.3438 ft



5-100 FALLING HEAD TEST 5

Data Set: N:\...\5-100-FH5.aqt

Date: 05/01/13

Time: 14:00:50

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 5-100

Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.005746 cm/sec

y0 = 3.282 ft

AQUIFER DATA

Saturated Thickness: 5.81 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (5-100)

Initial Displacement: 3.375 ft

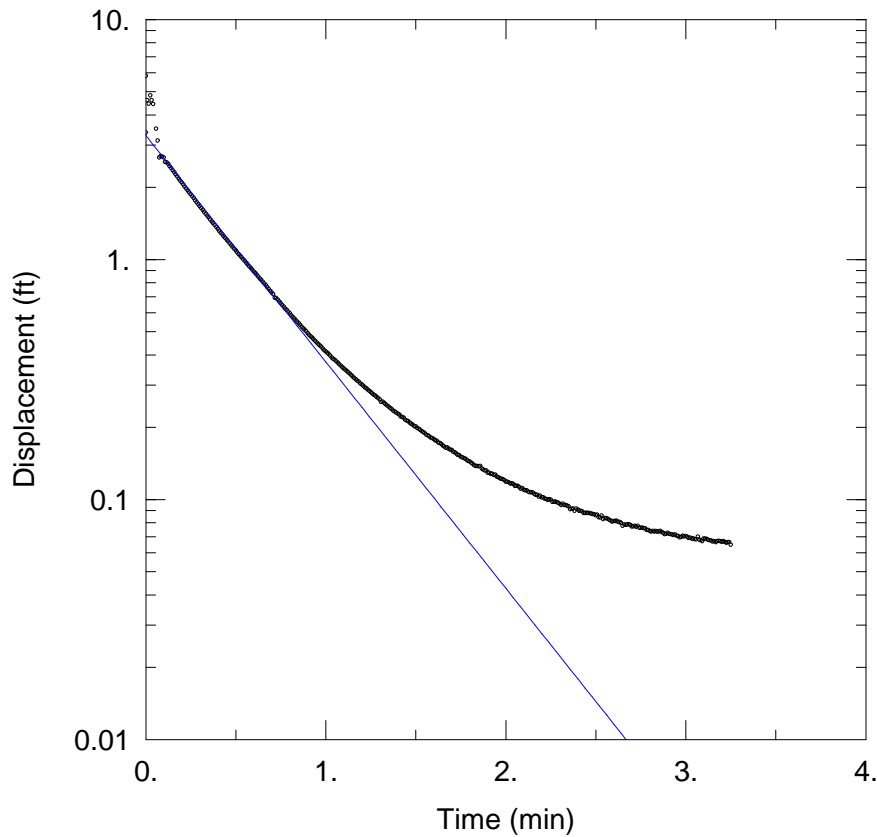
Total Well Penetration Depth: 5.81 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 86.49 ft

Screen Length: 1.81 ft

Well Radius: 0.3438 ft



5-100 FALLING HEAD TEST 6

Data Set: N:\...\5-100-FH6.aqt

Date: 05/01/13

Time: 14:00:27

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 5-100

Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.005746 cm/sec

y0 = 3.282 ft

AQUIFER DATA

Saturated Thickness: 5.81 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (5-100)

Initial Displacement: 3.375 ft

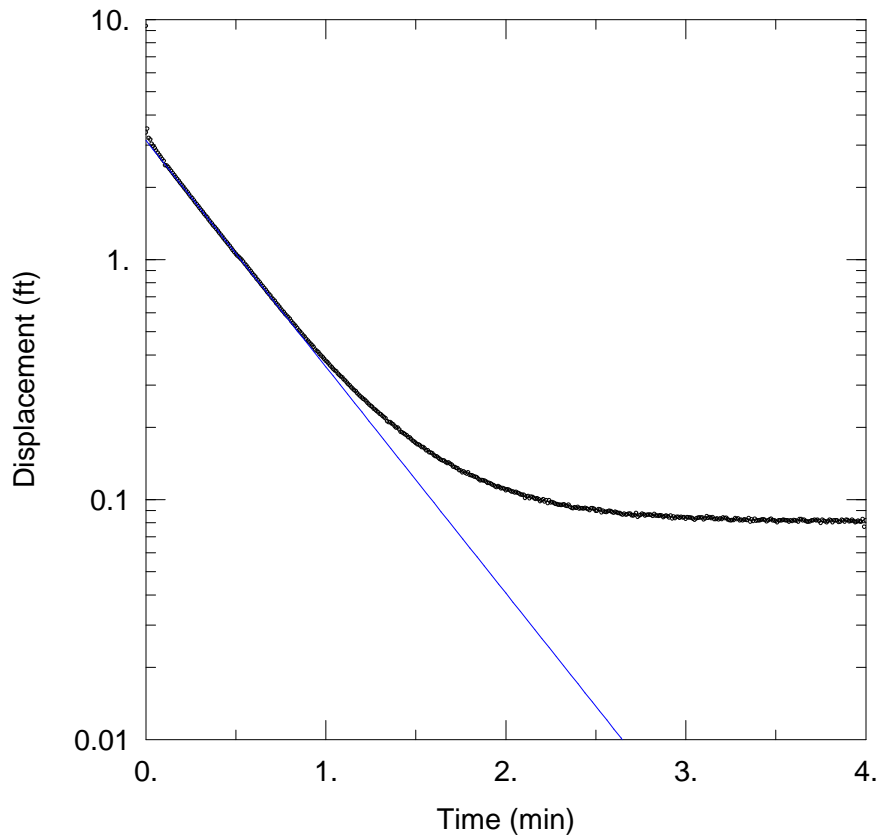
Total Well Penetration Depth: 5.81 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 86.49 ft

Screen Length: 1.81 ft

Well Radius: 0.3438 ft



5-100 RISING HEAD TEST 1

Data Set: N:\...\5-100-RH1.aqt

Date: 05/01/13

Time: 14:29:00

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 5-100

Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.005746$ cm/sec

$y_0 = 3.134$ ft

AQUIFER DATA

Saturated Thickness: 5.81 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (5-100)

Initial Displacement: 3.375 ft

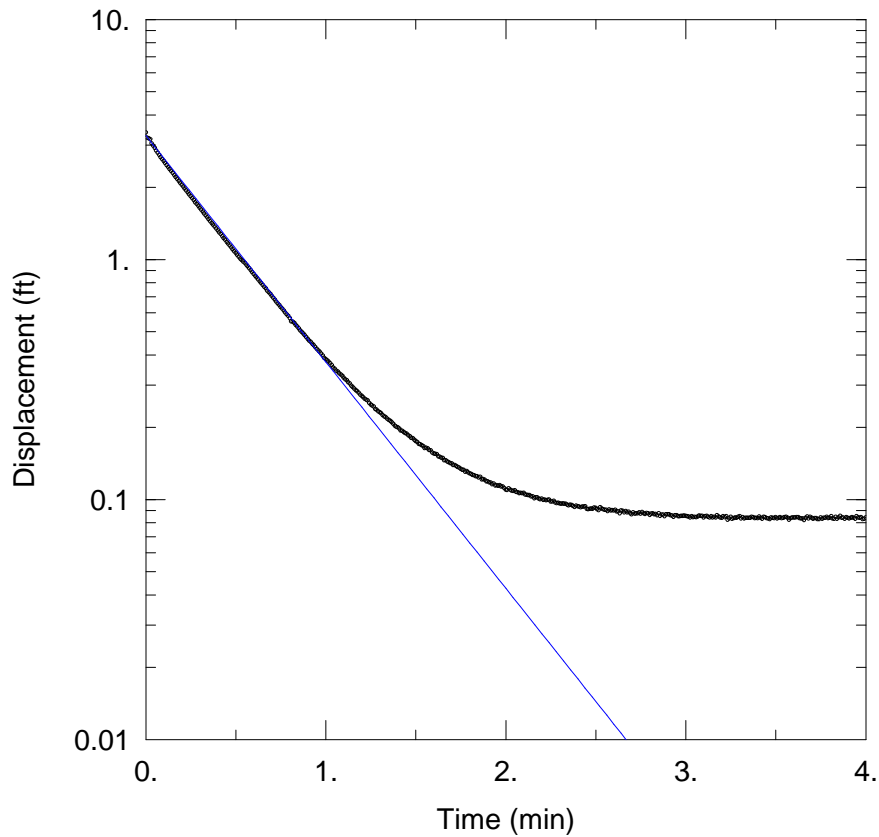
Total Well Penetration Depth: 5.81 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 86.49 ft

Screen Length: 1.81 ft

Well Radius: 0.3438 ft



5-100 RISING HEAD TEST 2

Data Set: N:\...\5-100-RH2.aqt
 Date: 05/01/13 Time: 14:28:42

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 5-100
 Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.005746$ cm/sec
 $y_0 = 3.282$ ft

AQUIFER DATA

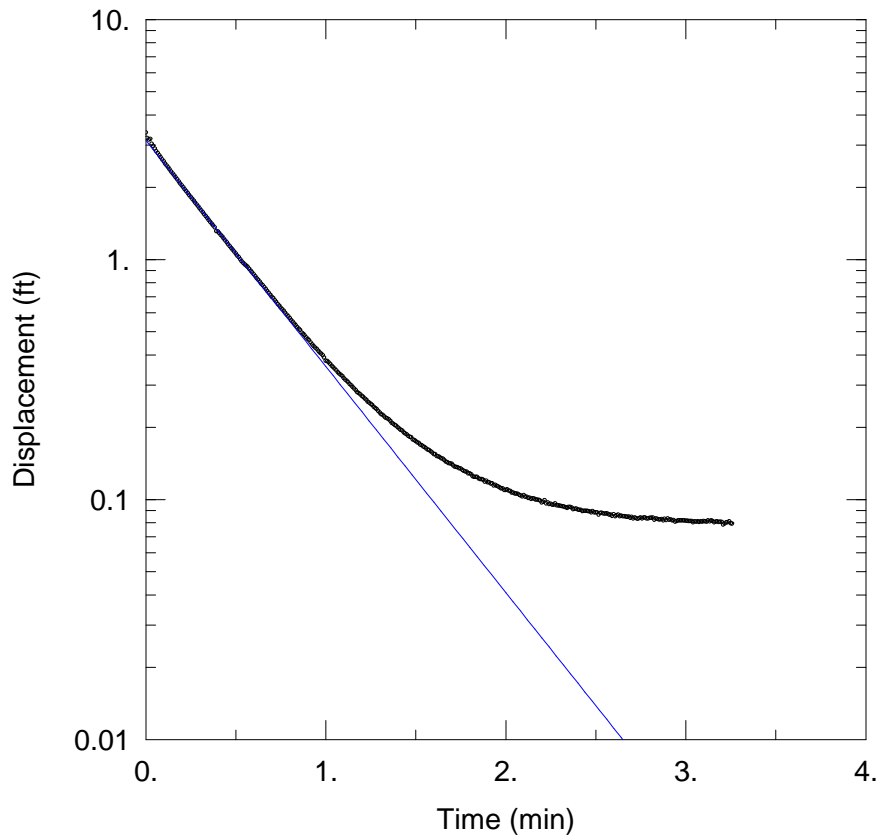
Saturated Thickness: 5.81 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (5-100)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 5.81 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 86.49 ft
 Screen Length: 1.81 ft
 Well Radius: 0.3438 ft



5-100 RISING HEAD TEST 3

Data Set: N:\...\5-100-RH3.aqt
 Date: 05/01/13 Time: 14:28:25

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 5-100
 Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.00574$ cm/sec
 $y_0 = 3.134$ ft

AQUIFER DATA

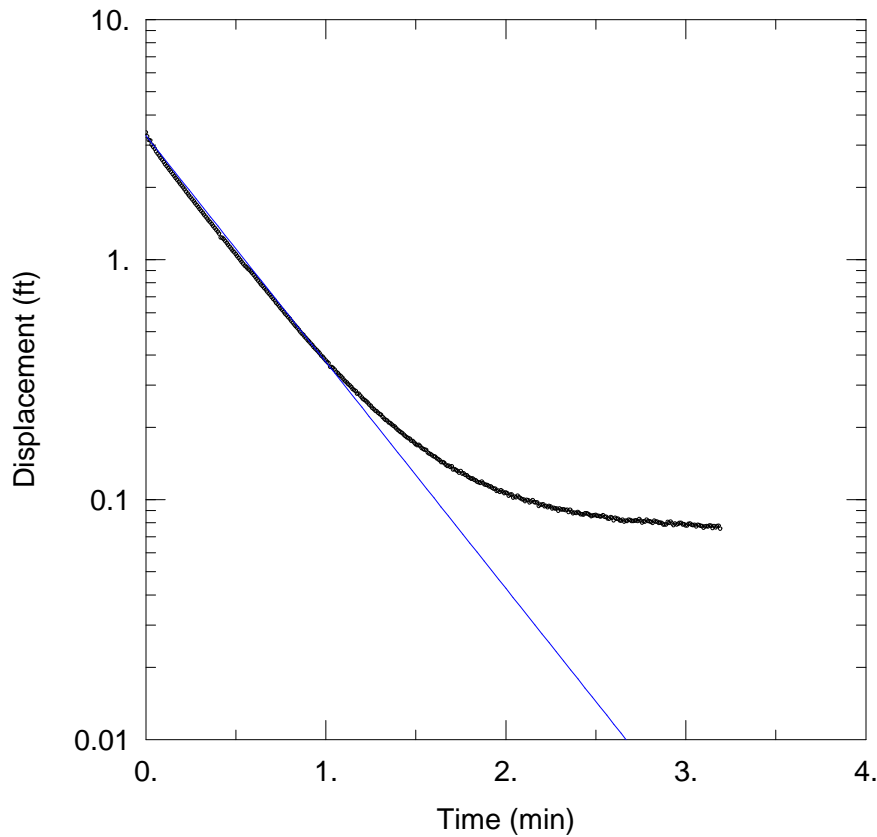
Saturated Thickness: 5.81 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (5-100)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 5.81 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 86.49 ft
 Screen Length: 1.81 ft
 Well Radius: 0.3438 ft



5-100 RISING HEAD TEST 4

Data Set: N:\...\5-100-RH4.aqt

Date: 05/01/13

Time: 14:28:07

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 5-100

Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.005746 cm/sec

y0 = 3.282 ft

AQUIFER DATA

Saturated Thickness: 5.81 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (5-100)

Initial Displacement: 3.375 ft

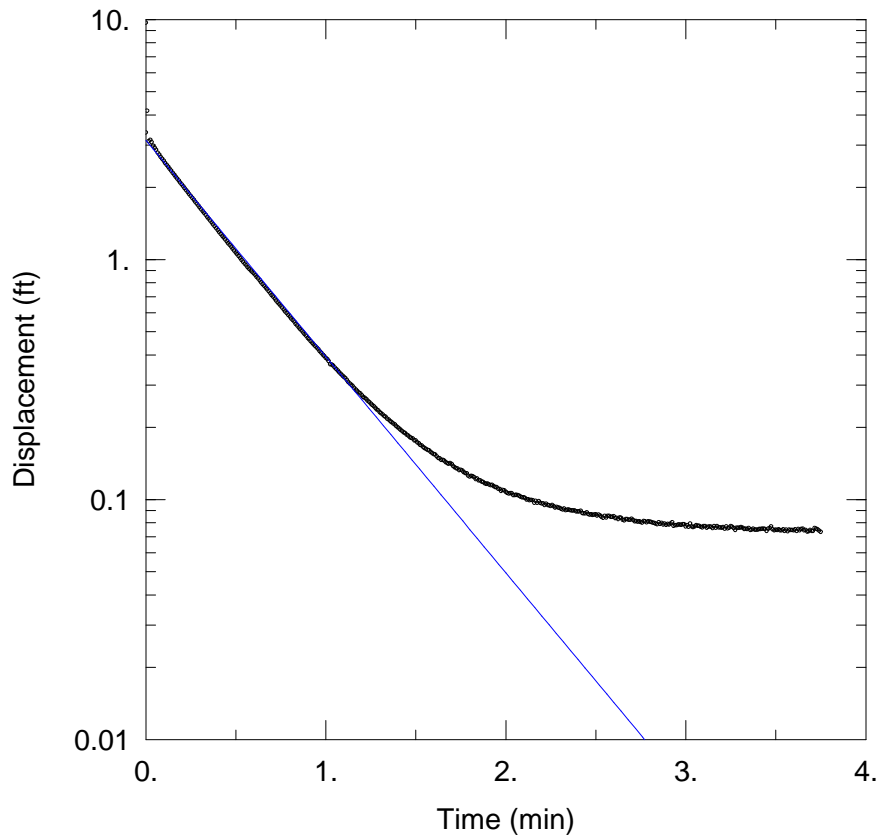
Total Well Penetration Depth: 5.81 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 86.49 ft

Screen Length: 1.81 ft

Well Radius: 0.3438 ft



5-100 RISING HEAD TEST 5

Data Set: N:\...\5-100-RH5.aqt
 Date: 05/01/13 Time: 14:27:49

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 5-100
 Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.005487$ cm/sec
 $y_0 = 3.134$ ft

AQUIFER DATA

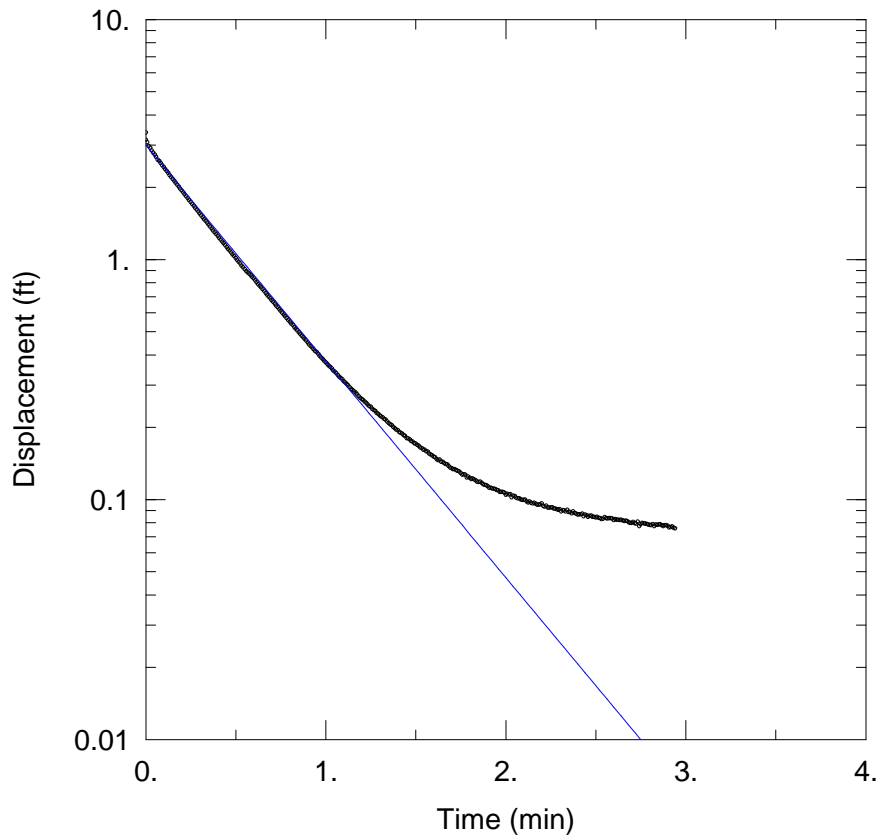
Saturated Thickness: 5.81 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (5-100)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 5.81 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 86.49 ft
 Screen Length: 1.81 ft
 Well Radius: 0.3438 ft



5-100 RISING HEAD TEST 6

Data Set: N:\...\5-100-RH6.aqt
 Date: 05/01/13 Time: 14:27:31

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 5-100
 Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.005487$ cm/sec
 $y_0 = 2.993$ ft

AQUIFER DATA

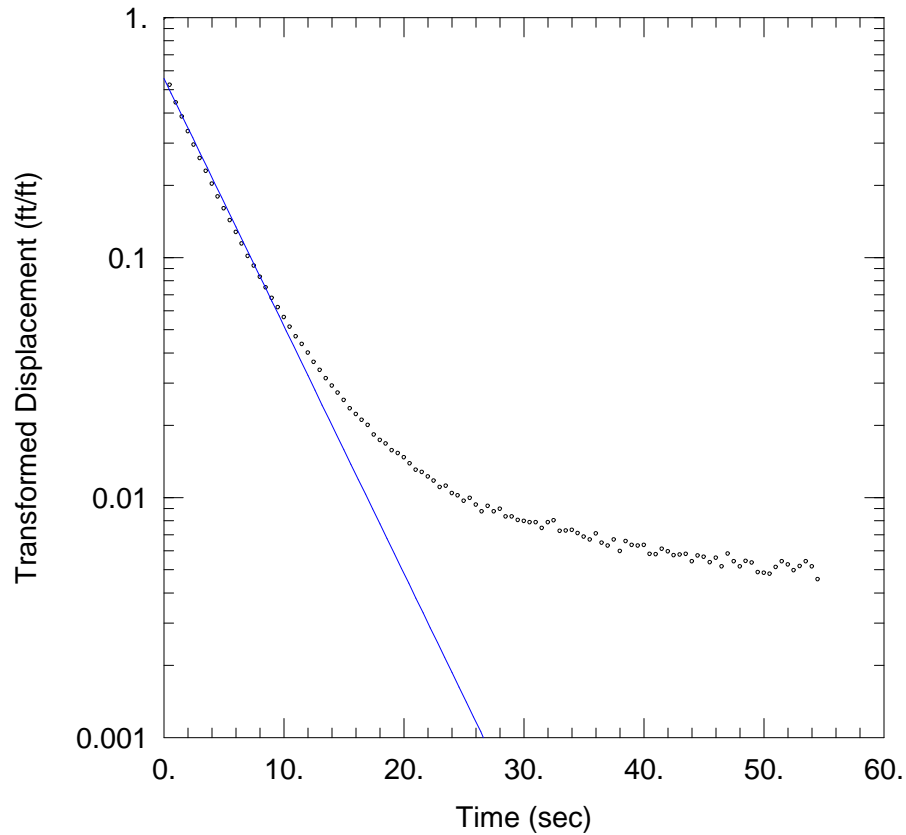
Saturated Thickness: 5.81 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (5-100)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 5.81 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 86.49 ft
 Screen Length: 1.81 ft
 Well Radius: 0.3438 ft



52-15 RISING HEAD TEST 1

Data Set: N:\...\52-15-RH1.aqt
 Date: 05/06/13 Time: 13:56:24

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 52-15
 Test Date: March 1, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Dagan
 $K = 0.04759$ cm/sec
 $y_0 = 2.071$ ft

AQUIFER DATA

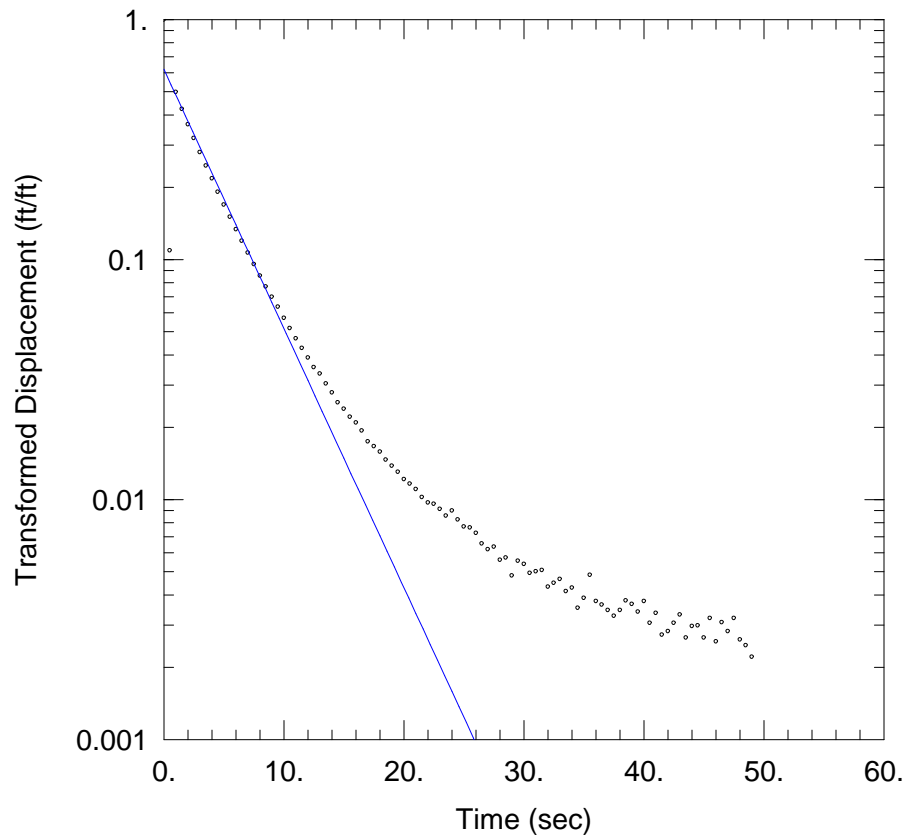
Saturated Thickness: 8.19 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (52-15)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8.19 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 8.19 ft
 Screen Length: 8.19 ft
 Well Radius: 0.333 ft
 Gravel Pack Porosity: 0.3



52-15 RISING HEAD TEST 2

Data Set: N:\...\52-15-RH2.aqt

Date: 05/06/13

Time: 13:56:13

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 52-15

Test Date: March 1, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.04983 cm/sec

y0 = 2.271 ft

AQUIFER DATA

Saturated Thickness: 8.19 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (52-15)

Initial Displacement: 3.375 ft

Total Well Penetration Depth: 8.19 ft

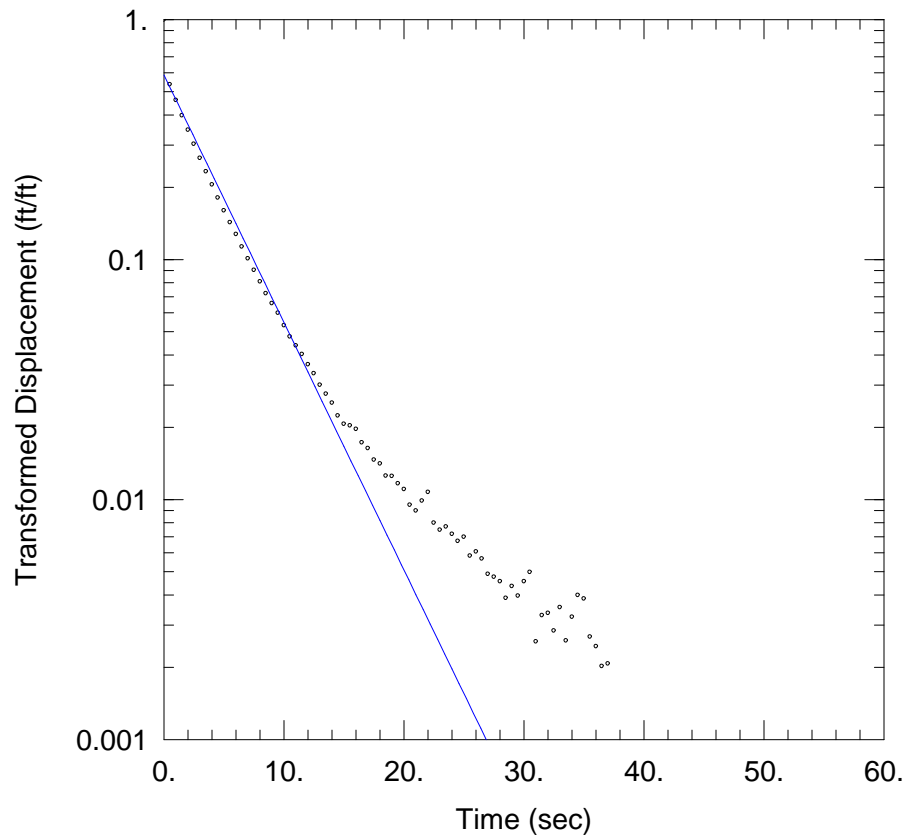
Casing Radius: 0.0835 ft

Static Water Column Height: 8.19 ft

Screen Length: 8.19 ft

Well Radius: 0.333 ft

Gravel Pack Porosity: 0.3



52-15 RISING HEAD TEST 3

Data Set: N:\...\52-15-RH3.aqt
 Date: 05/06/13 Time: 13:56:01

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 52-15
 Test Date: March 1, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Dagan
 $K = 0.04759$ cm/sec
 $y_0 = 2.168$ ft

AQUIFER DATA

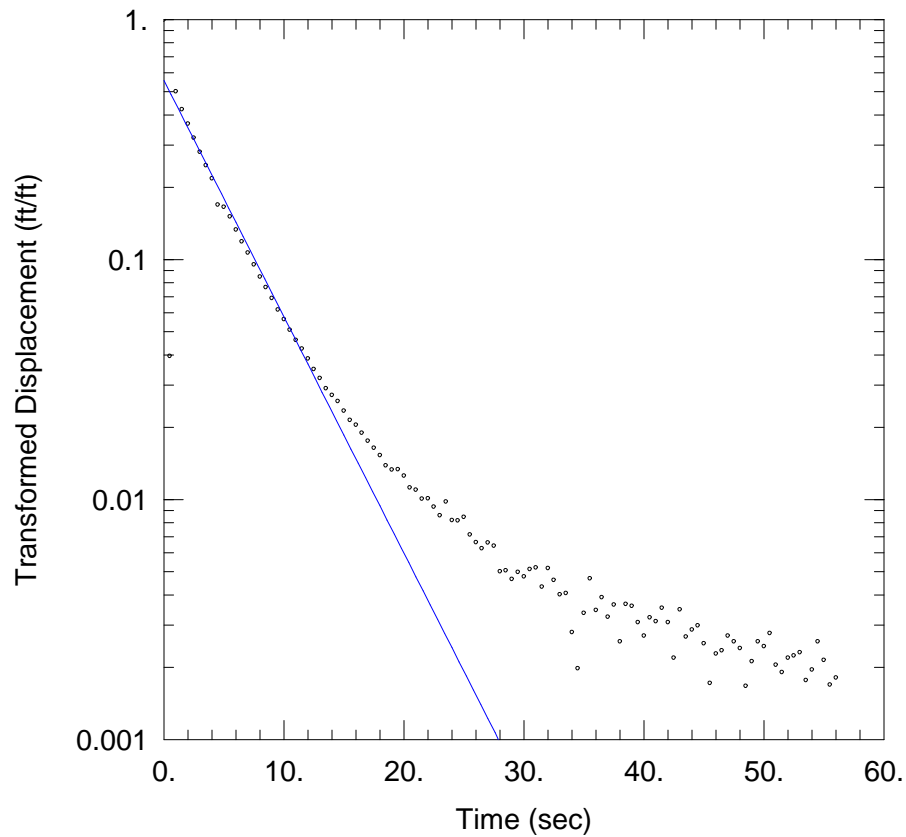
Saturated Thickness: 8.19 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (52-15)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8.19 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 8.19 ft
 Screen Length: 8.19 ft
 Well Radius: 0.333 ft
 Gravel Pack Porosity: 0.3



52-15 RISING HEAD TEST 4

Data Set: N:\...\52-15-RH4.aqt
 Date: 05/06/13 Time: 13:55:49

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 52-15
 Test Date: March 1, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Dagan
 $K = 0.04545$ cm/sec
 $y_0 = 2.071$ ft

AQUIFER DATA

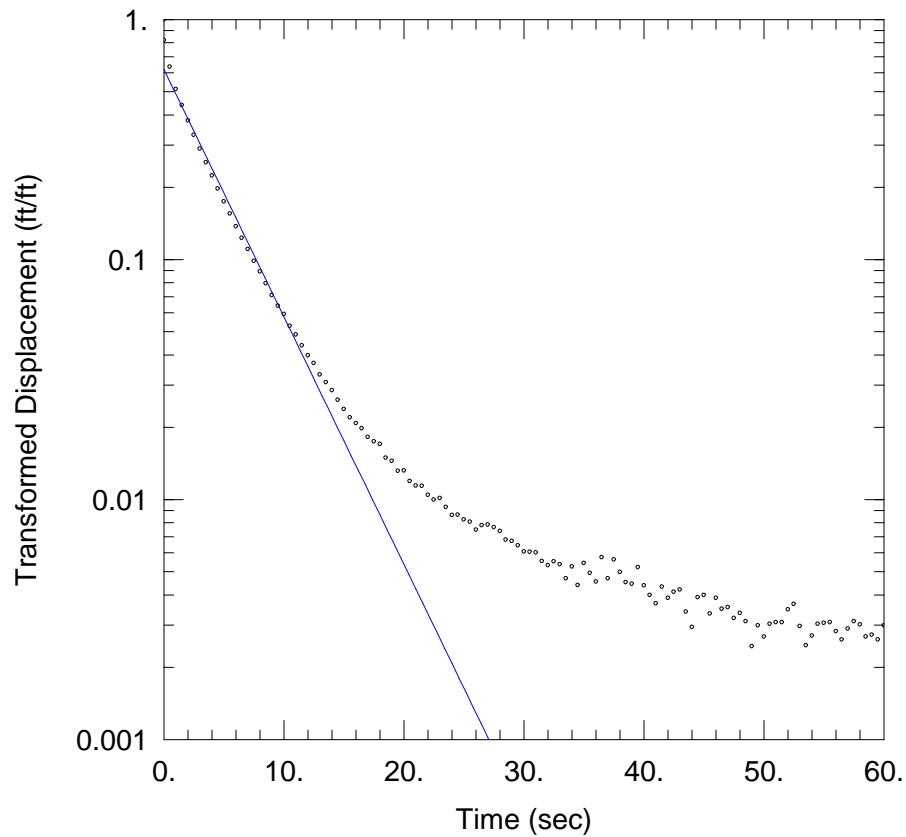
Saturated Thickness: 8.19 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (52-15)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8.19 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 8.19 ft
 Screen Length: 8.19 ft
 Well Radius: 0.333 ft
 Gravel Pack Porosity: 0.3



52-15 RISING HEAD TEST 5

Data Set: N:\...\52-15-RH5.aqt

Date: 05/06/13

Time: 13:55:37

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 52-15

Test Date: March 1, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.04759 cm/sec

y0 = 2.271 ft

AQUIFER DATA

Saturated Thickness: 8.19 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (52-15)

Initial Displacement: 3.375 ft

Total Well Penetration Depth: 8.19 ft

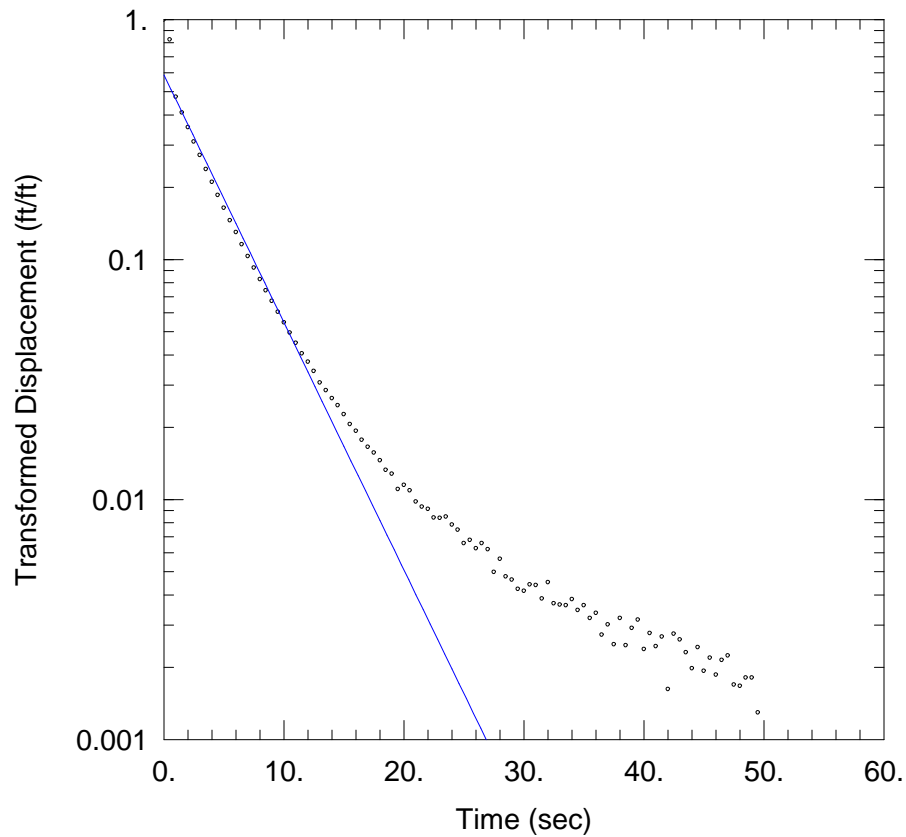
Casing Radius: 0.0835 ft

Static Water Column Height: 8.19 ft

Screen Length: 8.19 ft

Well Radius: 0.333 ft

Gravel Pack Porosity: 0.3



52-15 RISING HEAD TEST 6

Data Set: N:\...\52-15-RH6.aqt
 Date: 05/06/13 Time: 13:55:25

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 52-15
 Test Date: March 1, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Dagan
 $K = 0.04759$ cm/sec
 $y_0 = 2.168$ ft

AQUIFER DATA

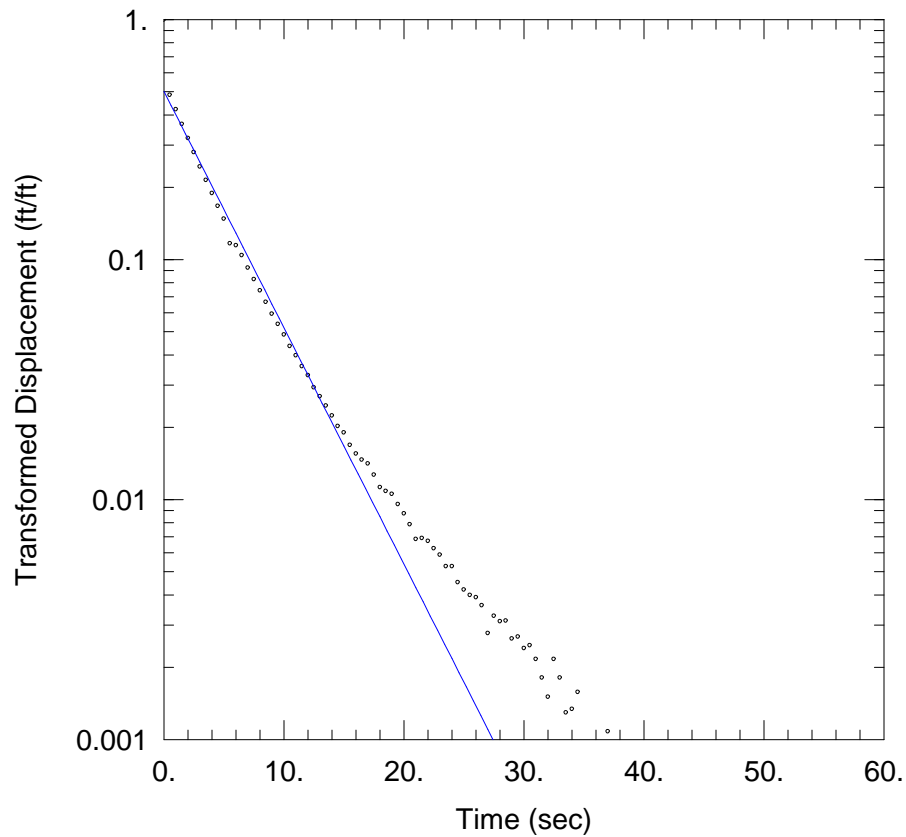
Saturated Thickness: 8.19 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (52-15)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8.19 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 8.19 ft
 Screen Length: 8.19 ft
 Well Radius: 0.333 ft
 Gravel Pack Porosity: 0.3



52-15 RISING HEAD TEST 7

Data Set: N:\...\52-15-RH7.aqt
 Date: 05/06/13 Time: 13:55:13

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 52-15
 Test Date: March 1, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Dagan
 K = 0.04545 cm/sec
 y0 = 1.889 ft

AQUIFER DATA

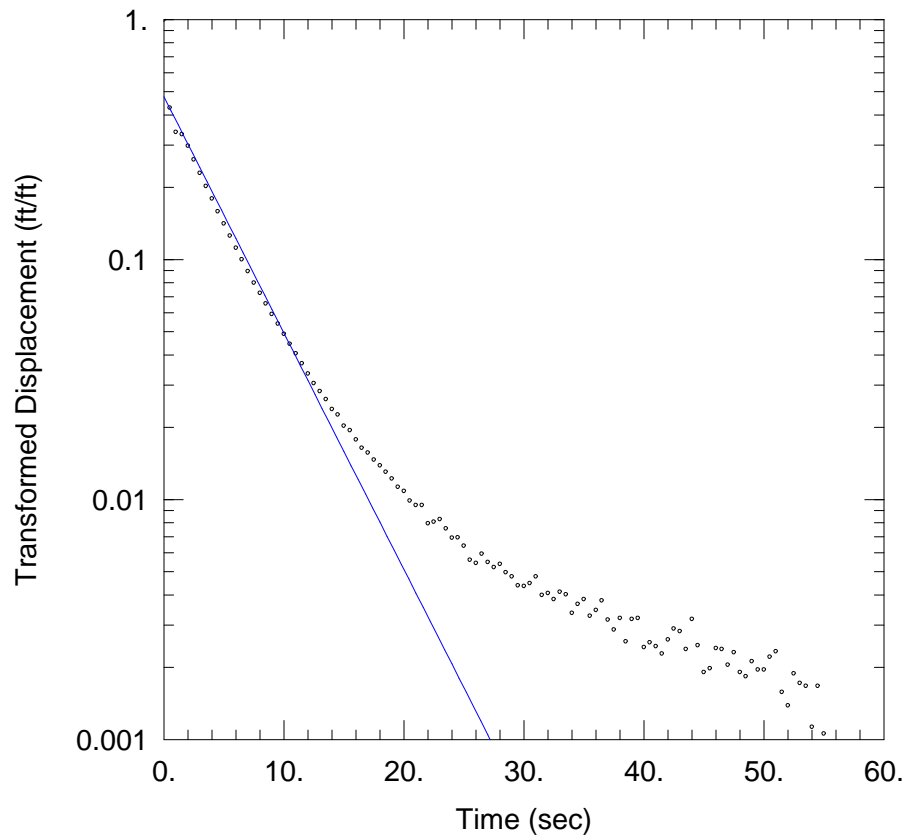
Saturated Thickness: 8.19 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (52-15)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8.19 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 8.19 ft
 Screen Length: 8.19 ft
 Well Radius: 0.333 ft
 Gravel Pack Porosity: 0.3



52-15 RISING HEAD TEST 8

Data Set: N:\...\52-15-RH8.aqt
 Date: 05/06/13 Time: 13:54:59

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 52-15
 Test Date: March 1, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Dagan
 $K = 0.04545$ cm/sec
 $y_0 = 1.804$ ft

AQUIFER DATA

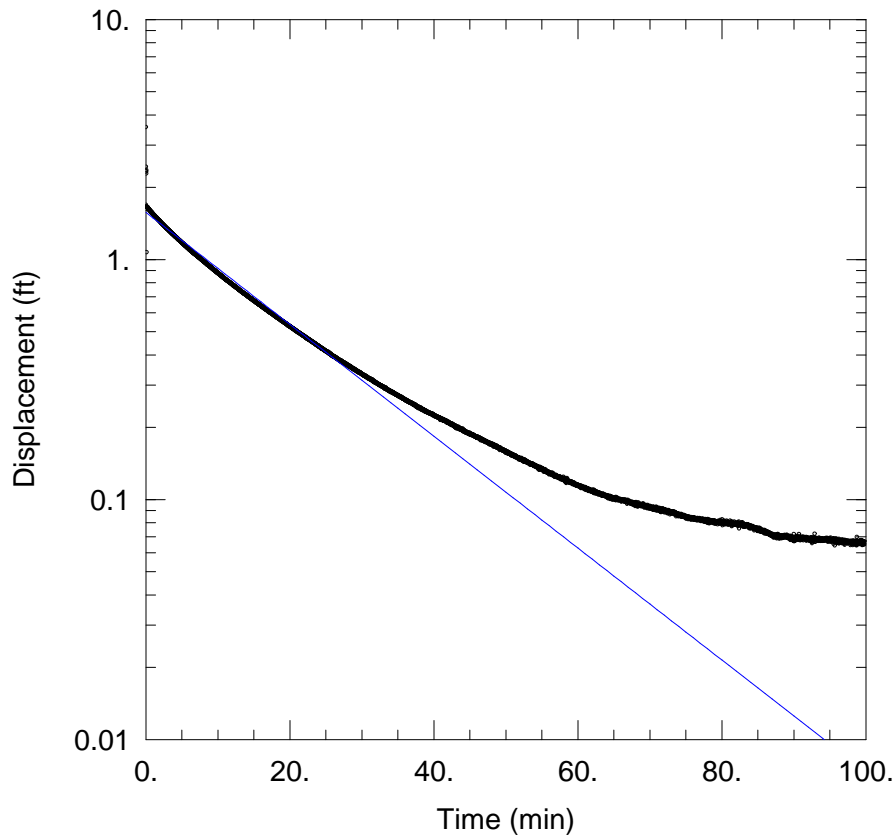
Saturated Thickness: 8.19 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (52-15)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8.19 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 8.19 ft
 Screen Length: 8.19 ft
 Well Radius: 0.333 ft
 Gravel Pack Porosity: 0.3



5-25 FALLING HEAD TEST 1

Data Set: N:\...\5-25-FH1.aqt

Date: 05/07/13

Time: 16:31:40

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 5-25

Test Date: February 6, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 7.575E-5$ cm/sec

$y_0 = 1.571$ ft

AQUIFER DATA

Saturated Thickness: 6.38 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (5-25)

Initial Displacement: 1.688 ft

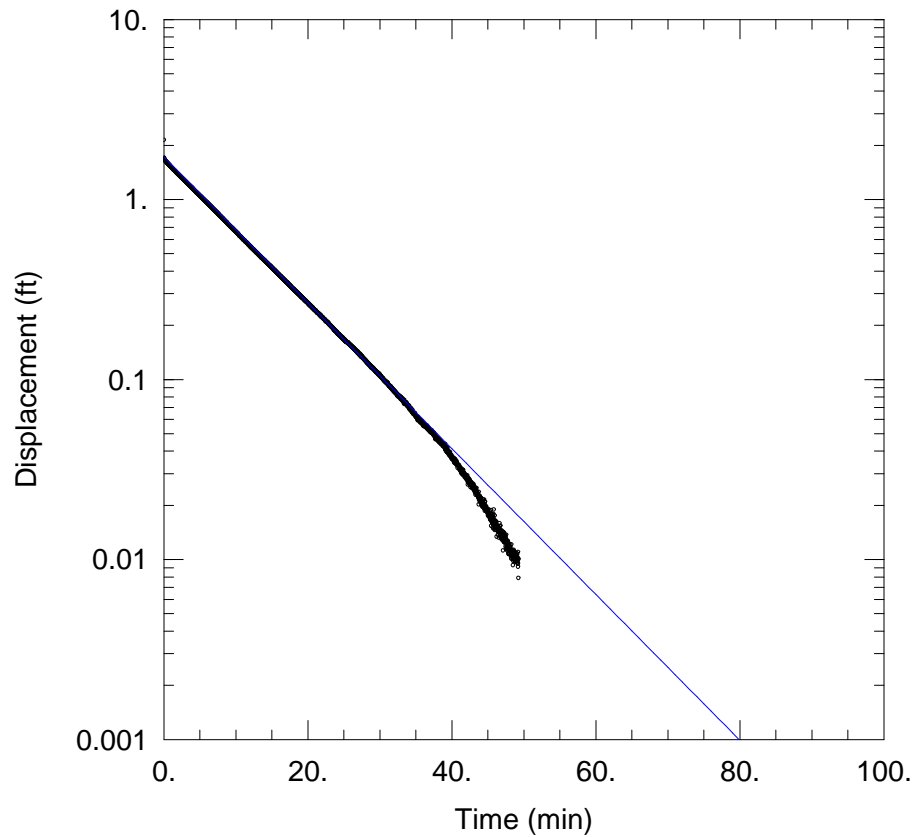
Total Well Penetration Depth: 9.08 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.57 ft

Screen Length: 4.08 ft

Well Radius: 0.3438 ft



5-25 RISING HEAD TEST 1

Data Set: N:\...\5-25-RH1.aqt
 Date: 05/07/13 Time: 16:33:16

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 5-25
 Test Date: February 6, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0001316$ cm/sec
 $y_0 = 1.722$ ft

AQUIFER DATA

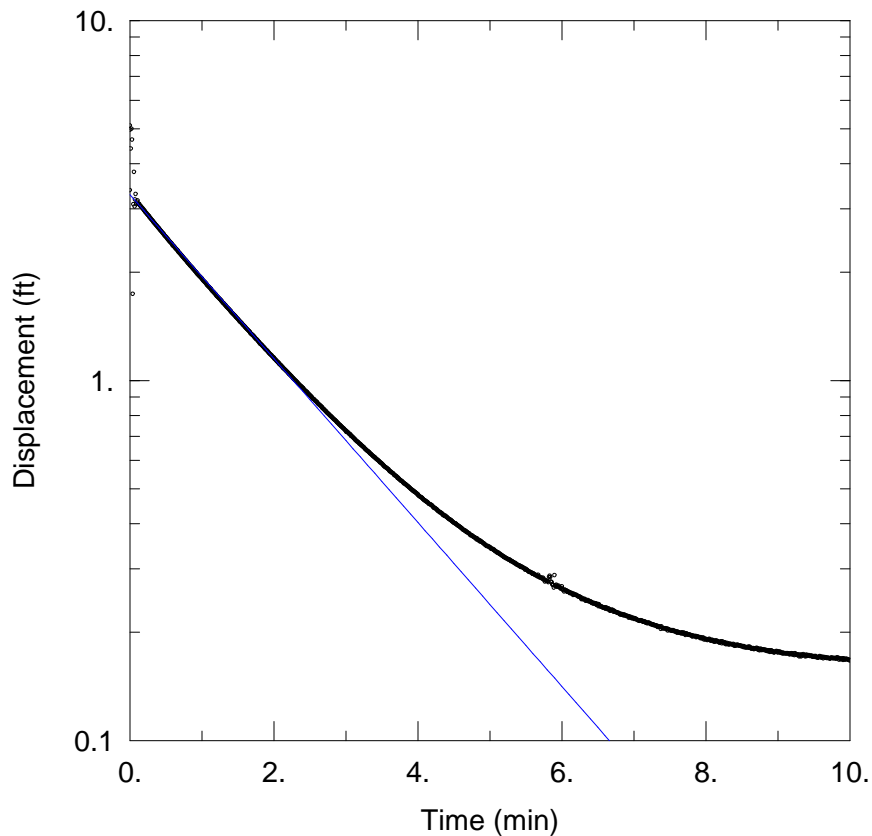
Saturated Thickness: 6.38 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (5-25)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 9.08 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 15.57 ft
 Screen Length: 4.08 ft
 Well Radius: 0.3438 ft



5-75 FALLING HEAD TEST 1

Data Set: N:\...\5-75-FH1.aqt

Date: 05/01/13

Time: 11:57:59

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 5-75

Test Date: February 4, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0005746 cm/sec

y0 = 3.282 ft

AQUIFER DATA

Saturated Thickness: 8.9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (5-75)

Initial Displacement: 3.375 ft

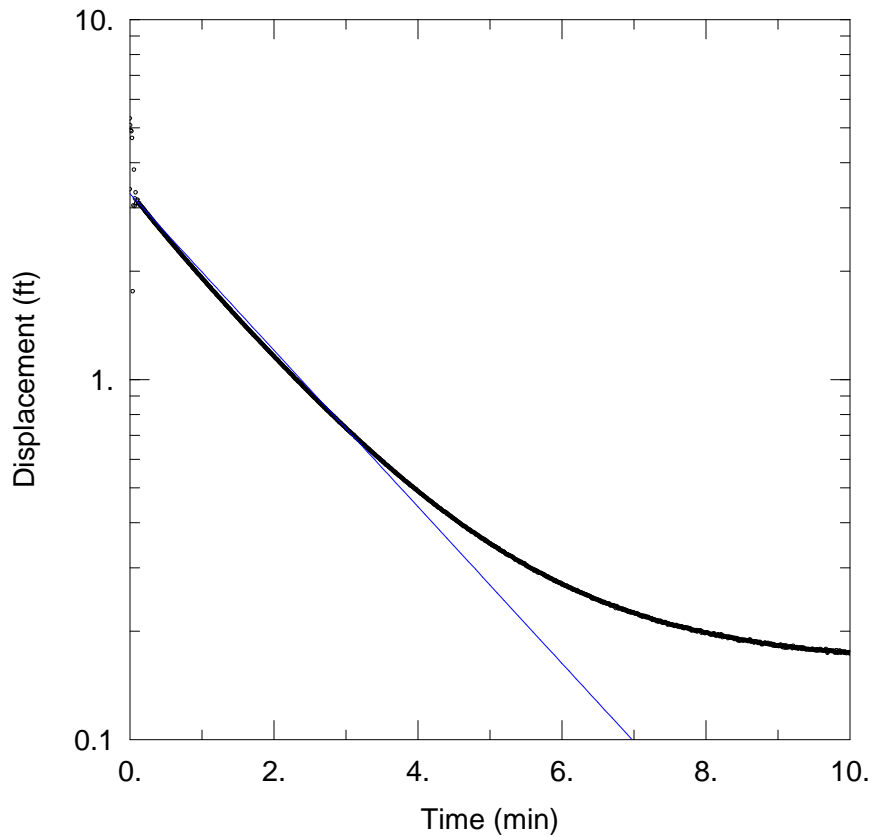
Total Well Penetration Depth: 7.4 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 63.13 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



5-75 FALLING HEAD TEST 2

Data Set: N:\...\5-75-FH2.aqt

Date: 05/01/13

Time: 11:57:41

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 5-75

Test Date: February 4, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0005487 cm/sec

y0 = 3.282 ft

AQUIFER DATA

Saturated Thickness: 8.9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (5-75)

Initial Displacement: 3.375 ft

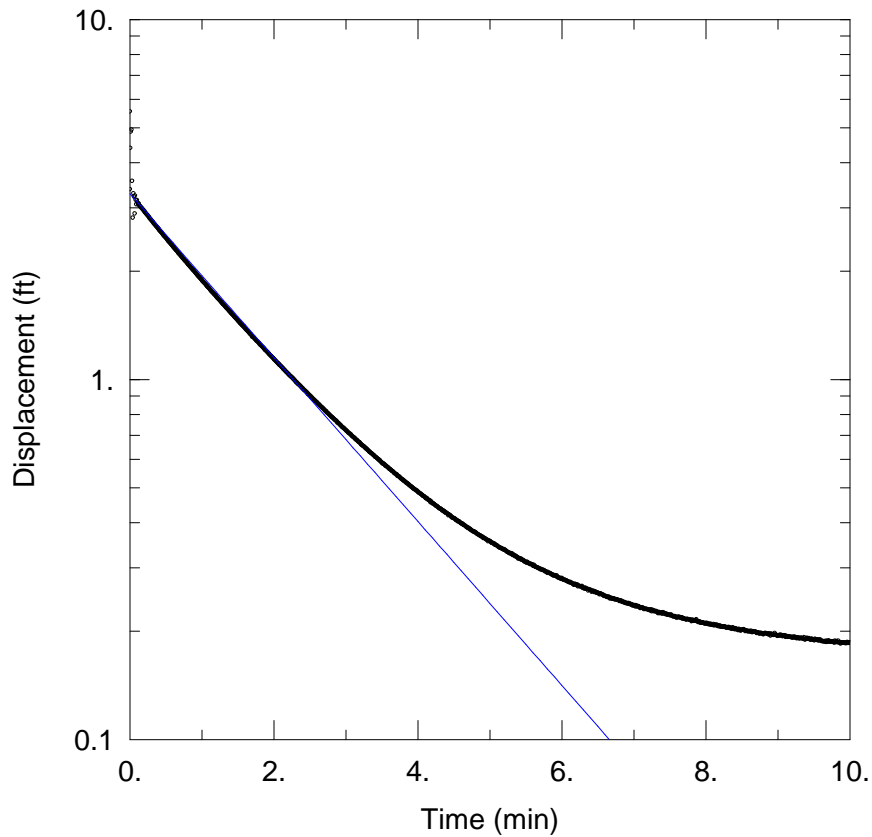
Total Well Penetration Depth: 7.4 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 63.13 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



5-75 FALLING HEAD TEST 3

Data Set: N:\...\5-75-FH3.aqt

Date: 05/01/13

Time: 11:57:23

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 5-75

Test Date: February 4, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0005746 cm/sec

y0 = 3.282 ft

AQUIFER DATA

Saturated Thickness: 8.9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (5-75)

Initial Displacement: 3.375 ft

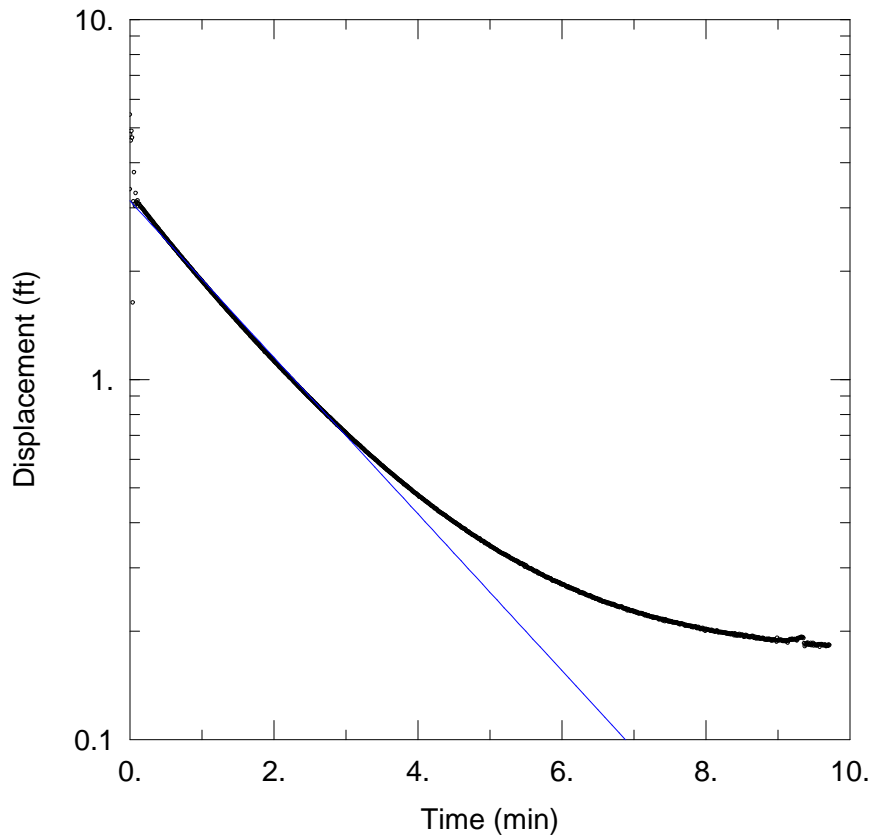
Total Well Penetration Depth: 7.4 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 63.13 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



5-75 FALLING HEAD TEST 4

Data Set: N:\...\5-75-FH4.aqt

Date: 05/01/13

Time: 11:56:51

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 5-75

Test Date: February 4, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.0005487$ cm/sec

$y_0 = 3.134$ ft

AQUIFER DATA

Saturated Thickness: 8.9 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (5-75)

Initial Displacement: 3.375 ft

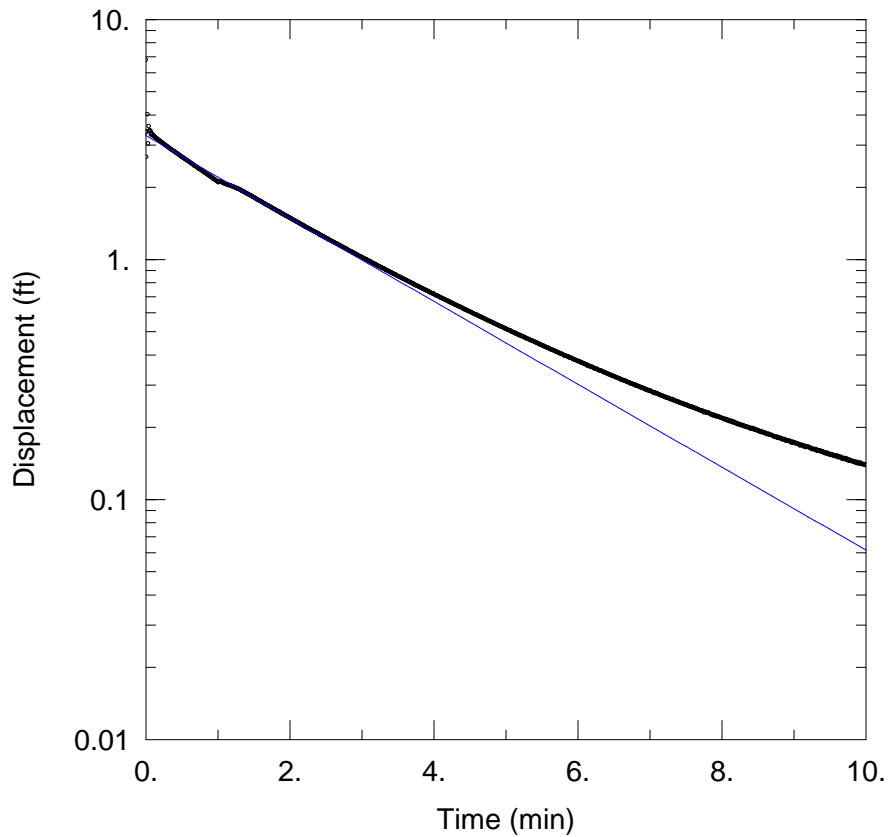
Total Well Penetration Depth: 7.4 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 63.13 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



5-75 RISING HEAD TEST 1

Data Set: N:\...\5-75-RH1.aqt

Date: 05/01/13

Time: 13:07:20

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 5-75

Test Date: February 4, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.0004359$ cm/sec

$y_0 = 3.282$ ft

AQUIFER DATA

Saturated Thickness: 8.9 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (5-75)

Initial Displacement: 3.375 ft

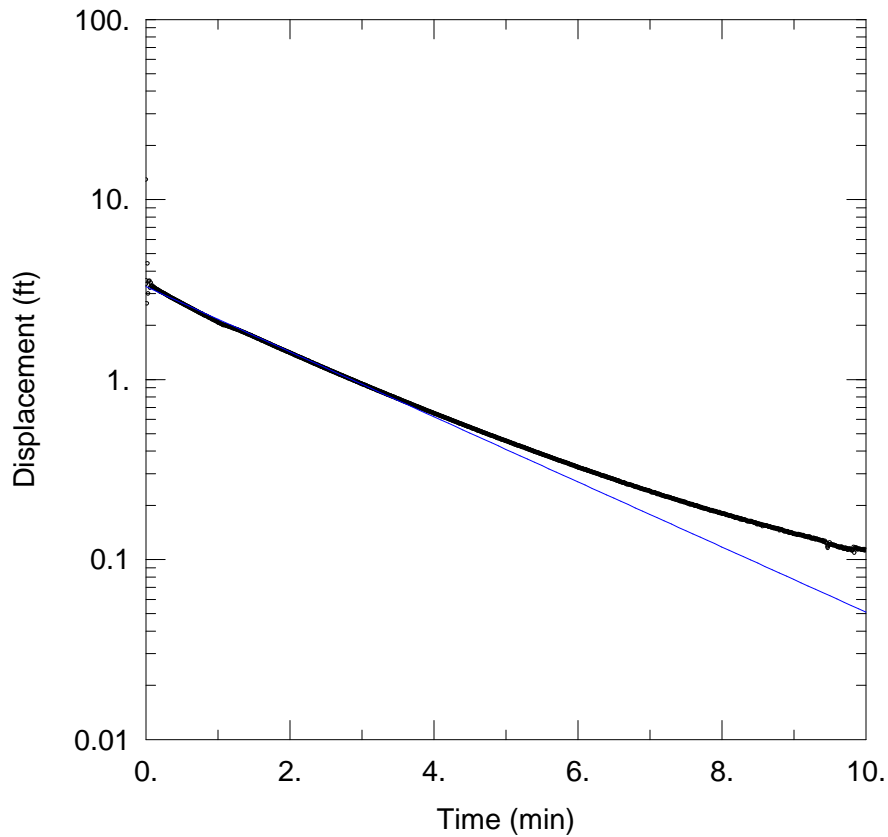
Total Well Penetration Depth: 7.4 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 63.13 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



5-75 RISING HEAD TEST 2

Data Set: N:\...\5-75-RH2.aqt

Date: 05/01/13

Time: 13:07:03

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 5-75

Test Date: February 4, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0004564 cm/sec

y0 = 3.282 ft

AQUIFER DATA

Saturated Thickness: 8.9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (5-75)

Initial Displacement: 3.375 ft

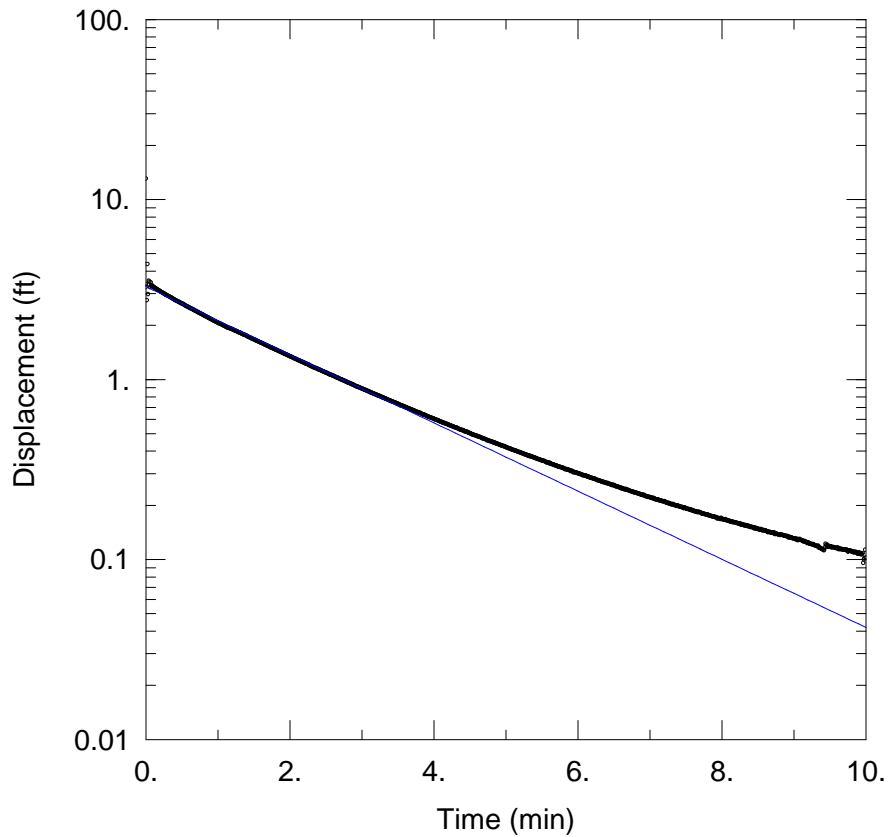
Total Well Penetration Depth: 7.4 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 63.13 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



5-75 RISING HEAD TEST 3

Data Set: N:\...\5-75-RH3.aqt

Date: 05/01/13

Time: 13:06:43

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 5-75

Test Date: February 4, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0004779 cm/sec

y0 = 3.282 ft

AQUIFER DATA

Saturated Thickness: 8.9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (5-75)

Initial Displacement: 3.375 ft

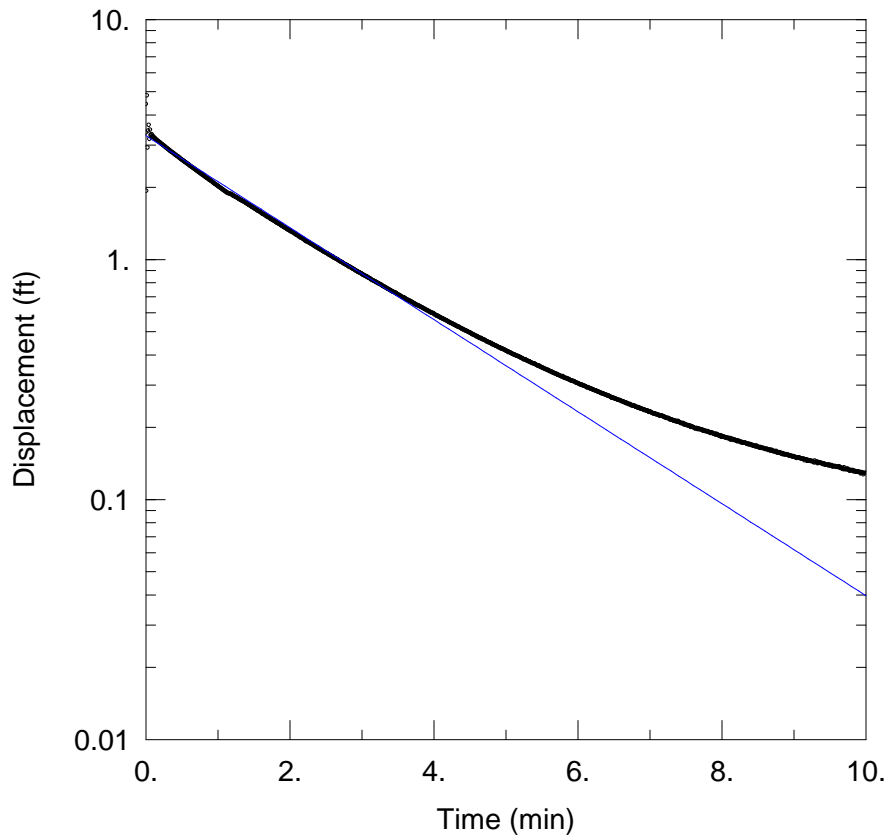
Total Well Penetration Depth: 7.4 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 63.13 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



5-75 RISING HEAD TEST 4

Data Set: N:\...\5-75-RH4.aqt

Date: 05/01/13

Time: 13:06:26

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 5-75

Test Date: February 4, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0004838 cm/sec

y0 = 3.282 ft

AQUIFER DATA

Saturated Thickness: 8.9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (5-75)

Initial Displacement: 3.375 ft

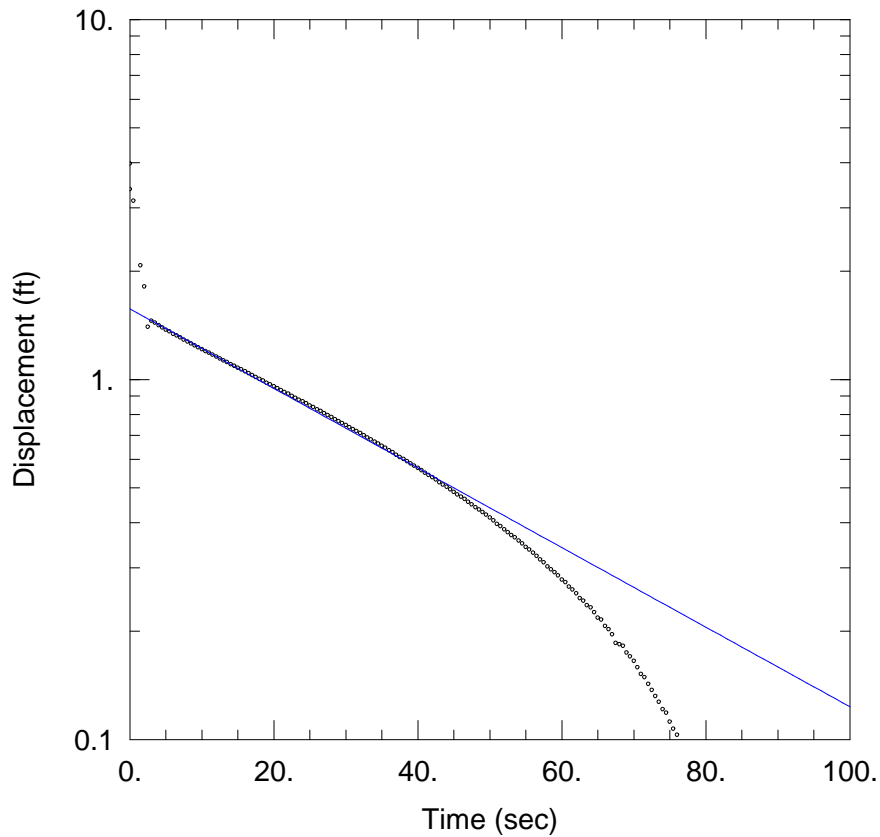
Total Well Penetration Depth: 7.4 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 63.13 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



65-100 FALLING HEAD TEST 1

Data Set: N:\...\65-100-FH1.aqt
 Date: 05/09/13 Time: 16:34:19

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 65-100
 Test Date: March 11, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001576$ cm/sec
 $y_0 = 1.571$ ft

AQUIFER DATA

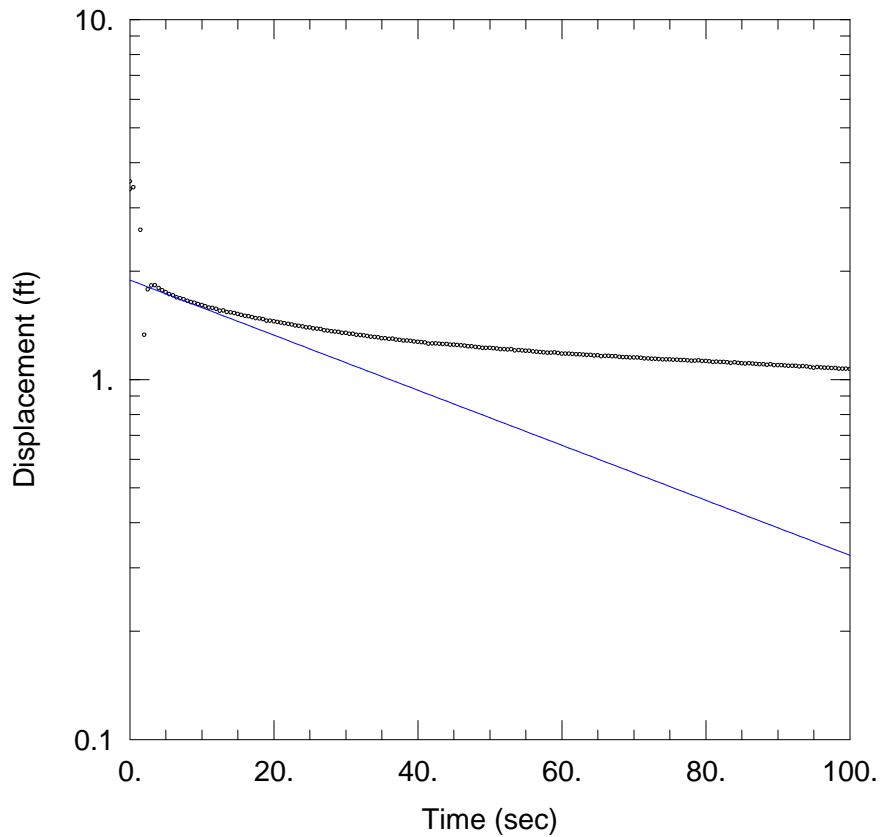
Saturated Thickness: 10.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (65-100)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 9. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 91.62 ft
 Screen Length: 5. ft
 Well Radius: 0.3542 ft



65-100 FALLING HEAD TEST 2

Data Set: N:\...\65-100-FH2.aqt
 Date: 05/09/13 Time: 16:34:33

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 65-100
 Test Date: March 11, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.00109 cm/sec
 y0 = 1.889 ft

AQUIFER DATA

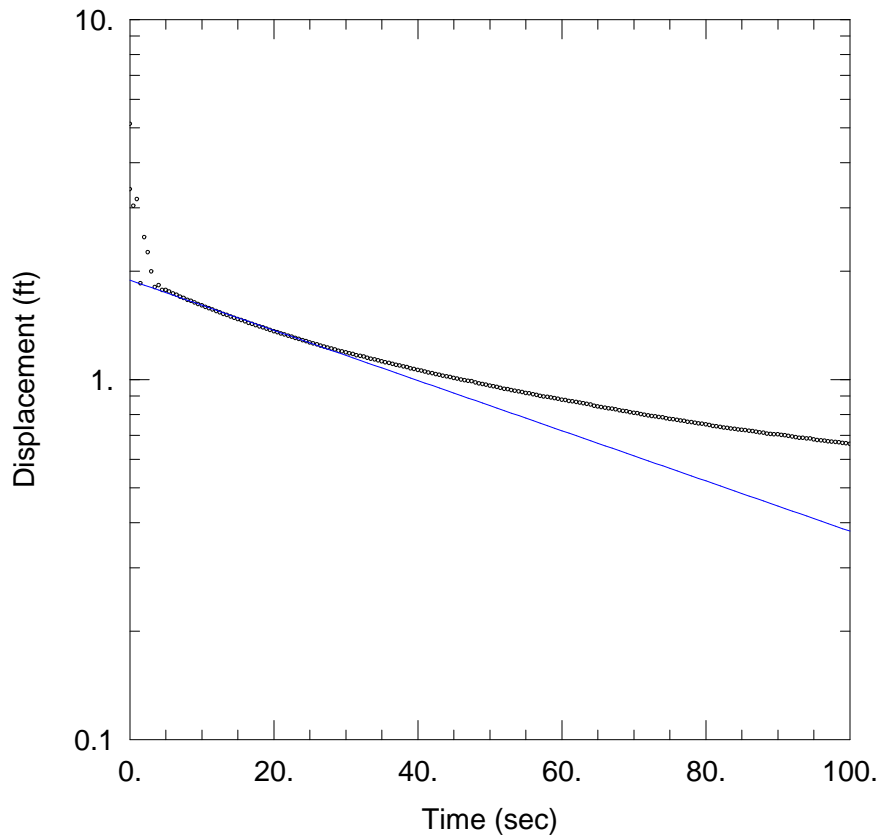
Saturated Thickness: 10.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (65-100)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 9. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 91.62 ft
 Screen Length: 5. ft
 Well Radius: 0.3542 ft



65-100 FALLING HEAD TEST 3

Data Set: N:\...\65-100-FH3.aqt
 Date: 05/09/13 Time: 16:34:07

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 65-100
 Test Date: March 11, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0009943$ cm/sec
 $y_0 = 1.889$ ft

AQUIFER DATA

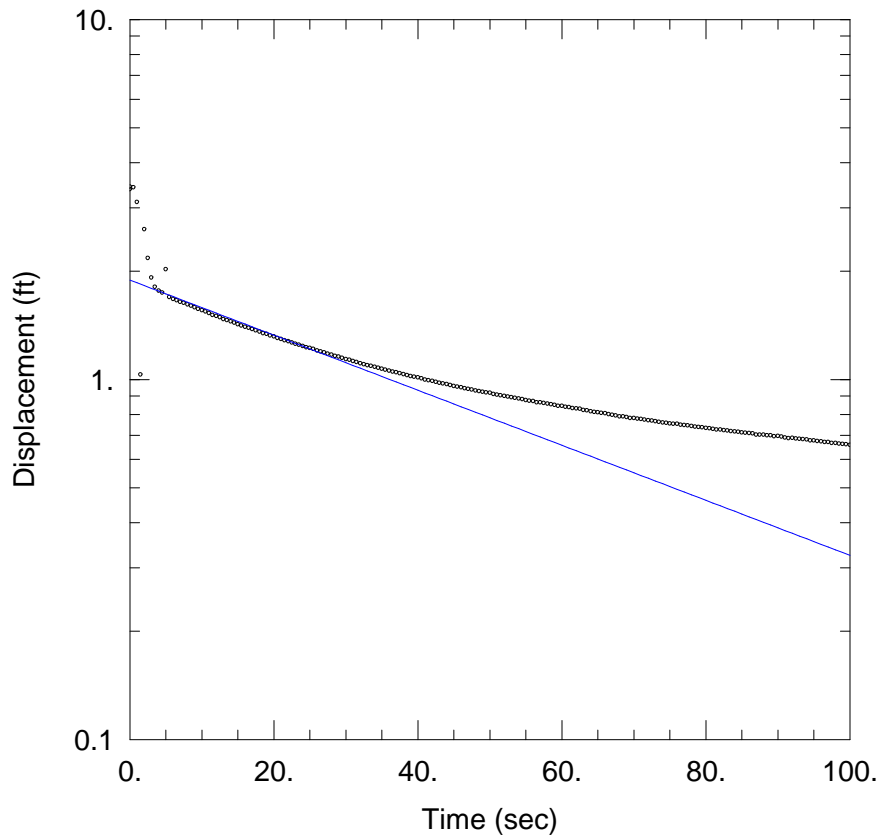
Saturated Thickness: 10.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (65-100)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 9. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 91.62 ft
 Screen Length: 5. ft
 Well Radius: 0.3542 ft



65-100 FALLING HEAD TEST 4

Data Set: N:\...\65-100-FH4.aqt
 Date: 05/09/13 Time: 16:33:51

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 65-100
 Test Date: March 11, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.00109 cm/sec
 y0 = 1.889 ft

AQUIFER DATA

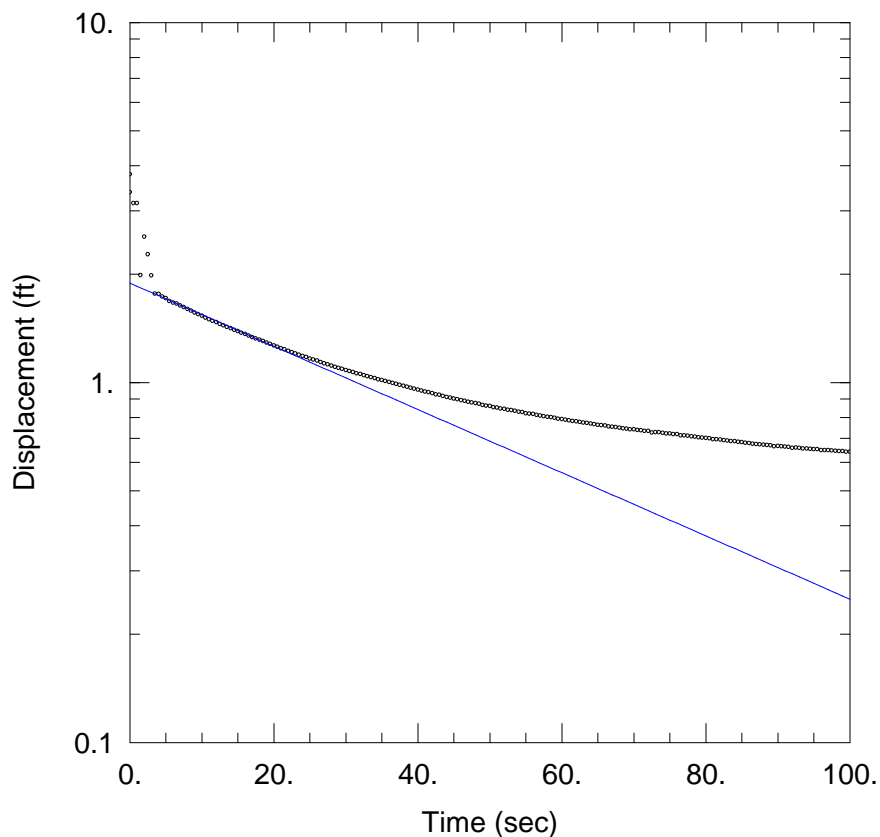
Saturated Thickness: 10.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (65-100)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 9. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 91.62 ft
 Screen Length: 5. ft
 Well Radius: 0.3542 ft



65-100 FALLING HEAD TEST 5

Data Set: N:\...\65-100-FH5.aqt
 Date: 05/09/13 Time: 16:33:38

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 65-100
 Test Date: March 11, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001252$ cm/sec
 $y_0 = 1.889$ ft

AQUIFER DATA

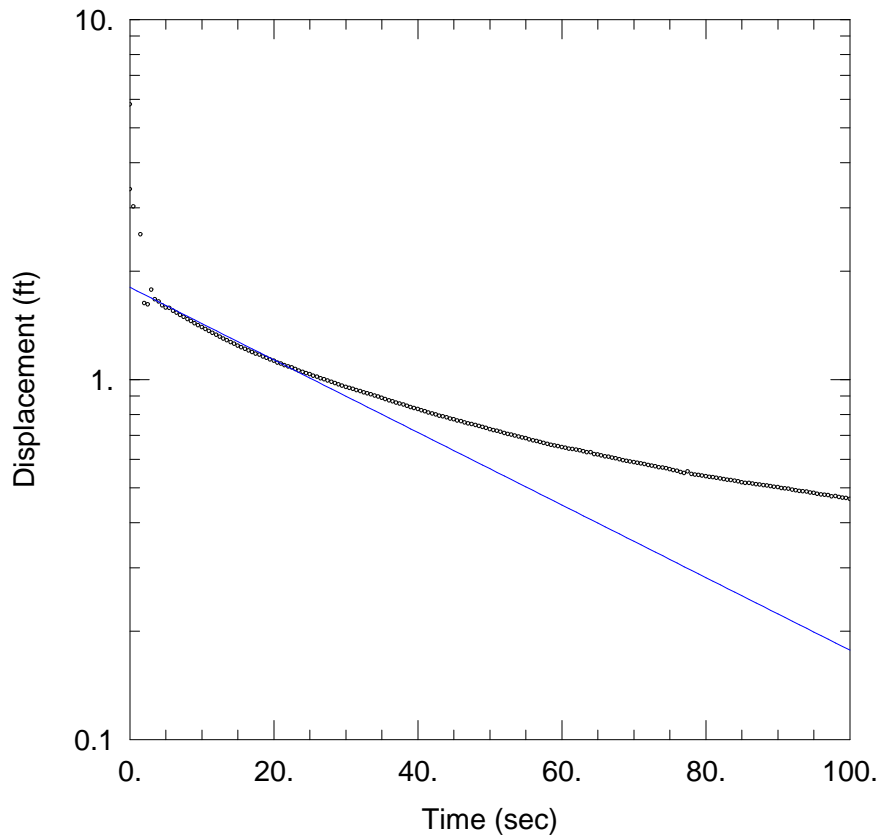
Saturated Thickness: 10.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (65-100)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 9. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 91.62 ft
 Screen Length: 5. ft
 Well Radius: 0.3542 ft



65-100 FALLING HEAD TEST 6

Data Set: N:\...\65-100-FH6.aqt
 Date: 05/09/13 Time: 16:33:26

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 65-100
 Test Date: March 11, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001437$ cm/sec
 $y_0 = 1.804$ ft

AQUIFER DATA

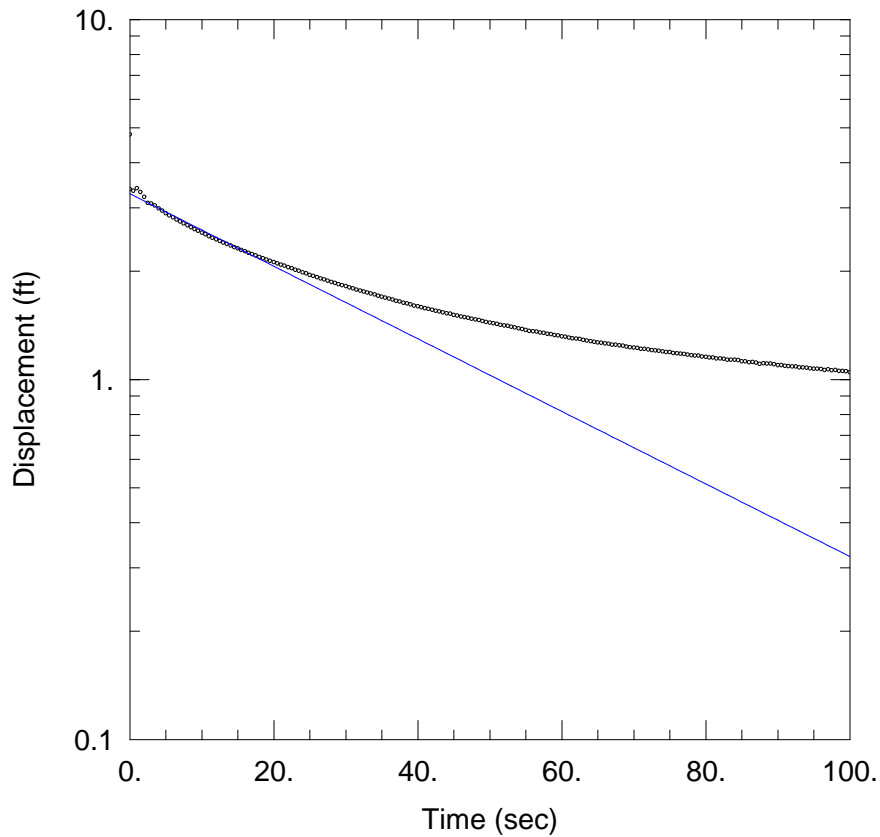
Saturated Thickness: 10.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (65-100)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 9. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 91.62 ft
 Screen Length: 5. ft
 Well Radius: 0.3542 ft



65-100 RISING HEAD TEST 1

Data Set: N:\...\65-100-RH1.aqt
 Date: 05/09/13 Time: 16:40:08

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 65-100
 Test Date: March 11, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001437$ cm/sec
 $y_0 = 3.282$ ft

AQUIFER DATA

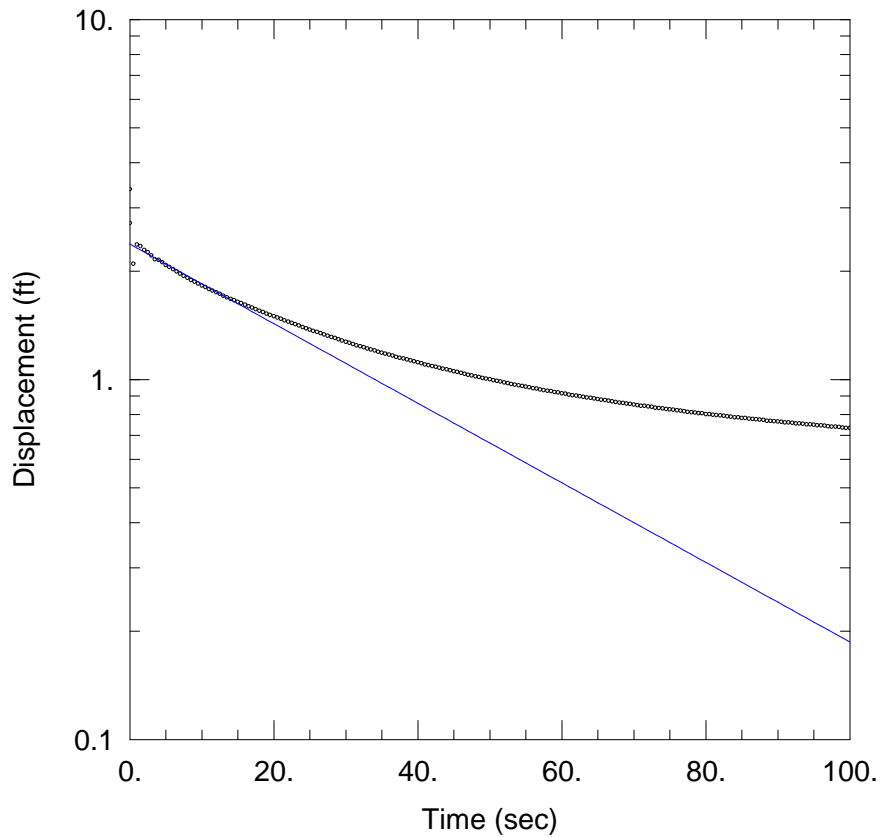
Saturated Thickness: 10.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (65-100)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 9. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 91.62 ft
 Screen Length: 5. ft
 Well Radius: 0.3542 ft



65-100 RISING HEAD TEST 2

Data Set: N:\...\65-100-RH2.aqt
 Date: 05/09/13 Time: 16:39:56

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 65-100
 Test Date: March 11, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001576$ cm/sec
 $y_0 = 2.378$ ft

AQUIFER DATA

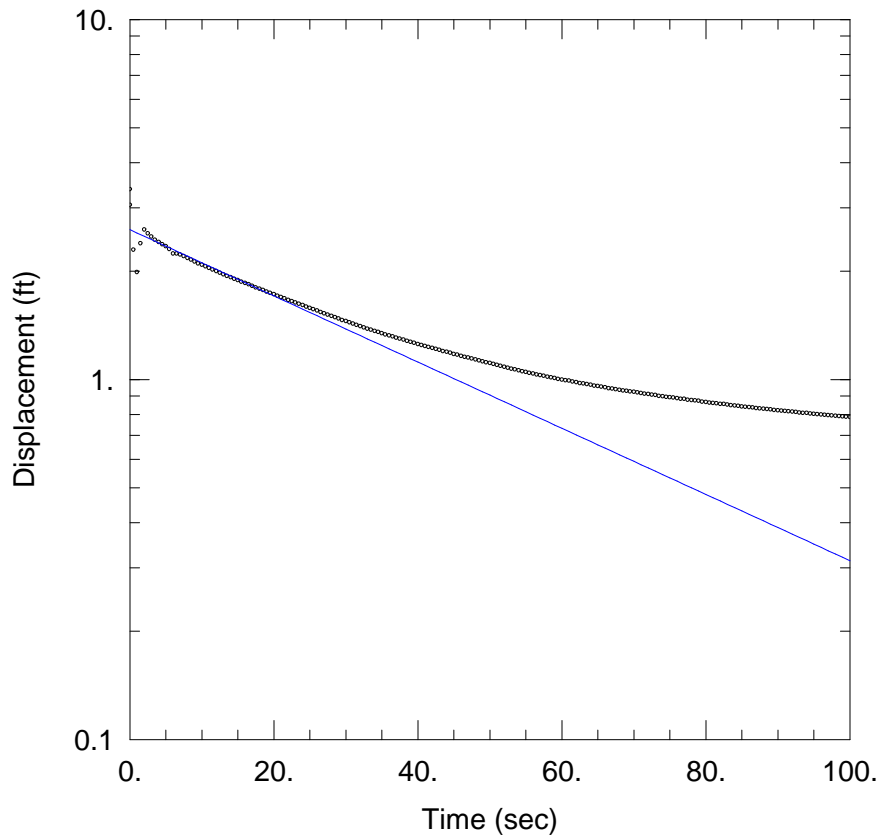
Saturated Thickness: 10.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (65-100)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 9. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 91.62 ft
 Screen Length: 5. ft
 Well Radius: 0.3542 ft



65-100 RISING HEAD TEST 3

Data Set: N:\...\65-100-RH3.aqt
 Date: 05/09/13 Time: 16:39:43

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 65-100
 Test Date: March 11, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001311$ cm/sec
 $y_0 = 2.607$ ft

AQUIFER DATA

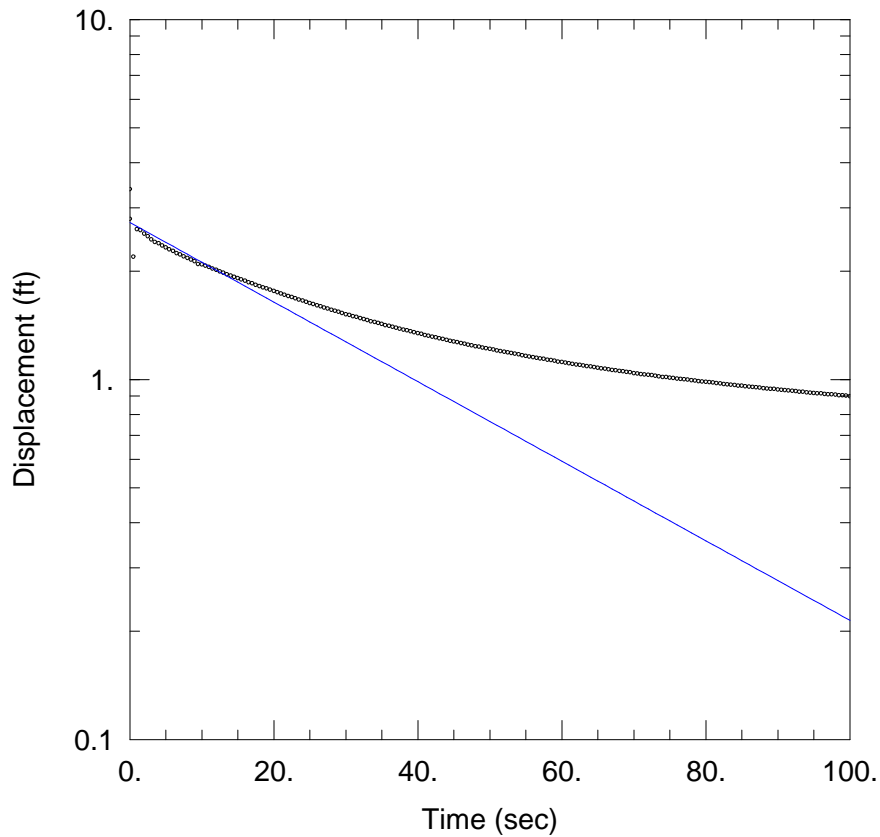
Saturated Thickness: 10.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (65-100)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 9. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 91.62 ft
 Screen Length: 5. ft
 Well Radius: 0.3542 ft



65-100 RISING HEAD TEST 4

Data Set: N:\...\65-100-RH4.aqt
 Date: 05/09/13 Time: 16:39:31

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 65-100
 Test Date: March 11, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001576$ cm/sec
 $y_0 = 2.73$ ft

AQUIFER DATA

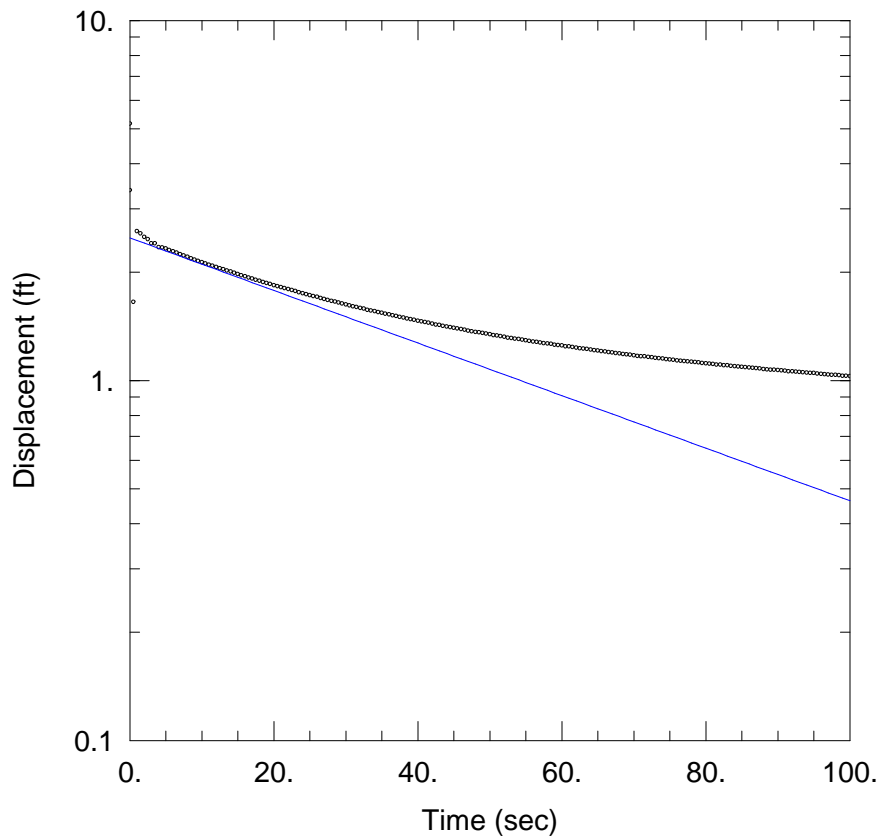
Saturated Thickness: 10.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (65-100)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 9. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 91.62 ft
 Screen Length: 5. ft
 Well Radius: 0.3542 ft



65-100 RISING HEAD TEST 5

Data Set: N:\...\65-100-RH5.aqt
 Date: 05/09/13 Time: 16:39:19

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 65-100
 Test Date: March 11, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001041$ cm/sec
 $y_0 = 2.49$ ft

AQUIFER DATA

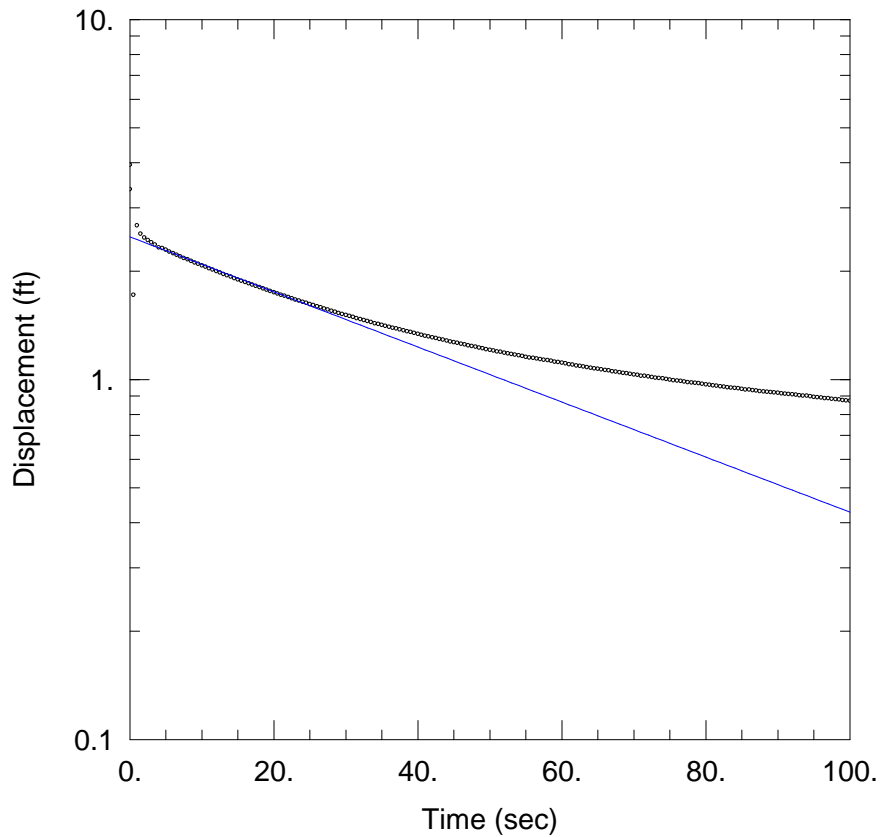
Saturated Thickness: 10.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (65-100)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 9. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 91.62 ft
 Screen Length: 5. ft
 Well Radius: 0.3542 ft



65-100 RISING HEAD TEST 6

Data Set: N:\...\65-100-RH6.aqt
 Date: 05/09/13 Time: 16:39:06

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 65-100
 Test Date: March 11, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.00109$ cm/sec
 $y_0 = 2.49$ ft

AQUIFER DATA

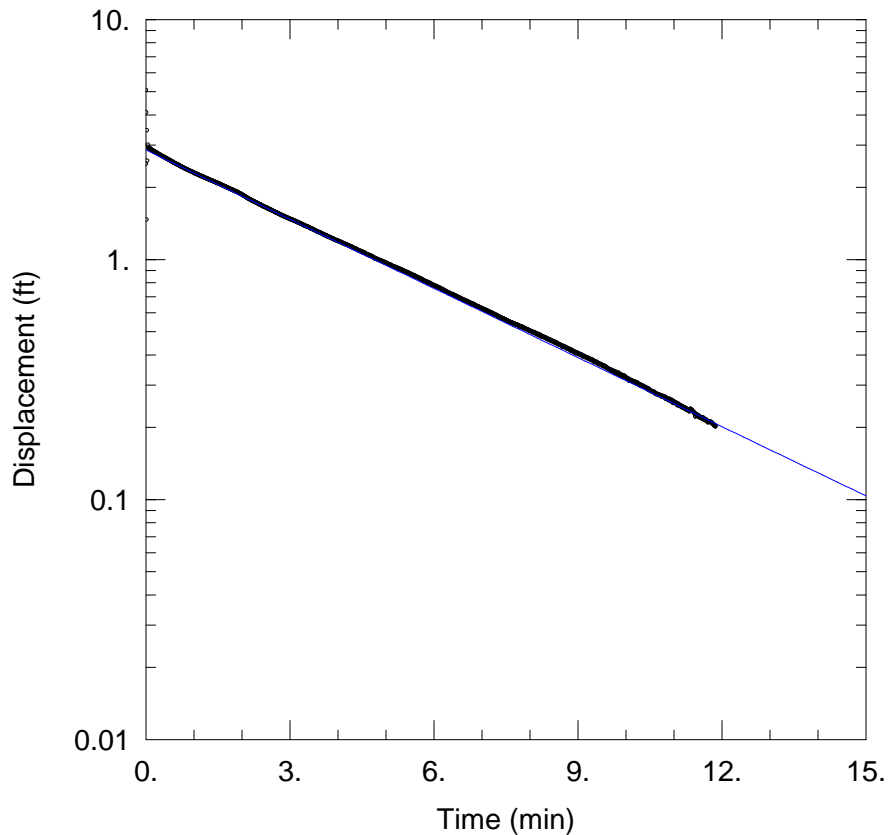
Saturated Thickness: 10.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (65-100)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 9. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 91.62 ft
 Screen Length: 5. ft
 Well Radius: 0.3542 ft



6A-100 FALLING HEAD TEST 1

Data Set: N:\...\6A-100-FH1.aqt
 Date: 05/01/13 Time: 15:35:20

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 6A-100
 Test Date: March 1, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0006017$ cm/sec
 $y_0 = 2.858$ ft

AQUIFER DATA

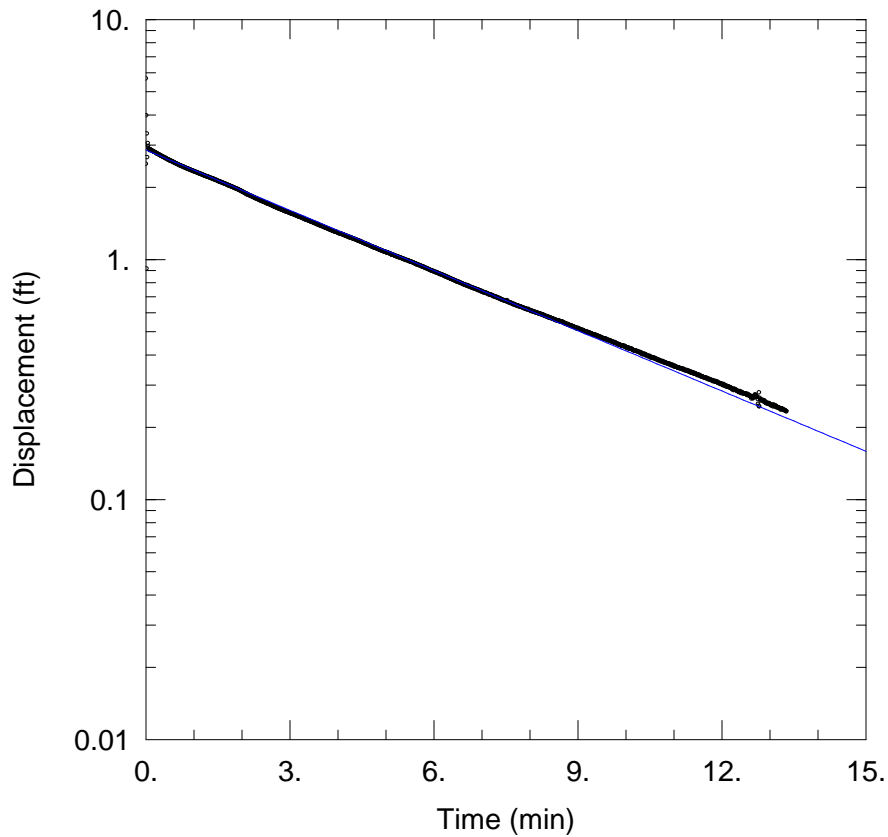
Saturated Thickness: 5.11 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (6A-100)

Initial Displacement: 2.5 ft
 Total Well Penetration Depth: 5.11 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 83.88 ft
 Screen Length: 1.7 ft
 Well Radius: 0.3438 ft



6A-100 FALLING HEAD TEST 2

Data Set: N:\...\6A-100-FH2.aqt
 Date: 05/01/13 Time: 15:35:04

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 6A-100
 Test Date: March 1, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.000524$ cm/sec
 $y_0 = 2.858$ ft

AQUIFER DATA

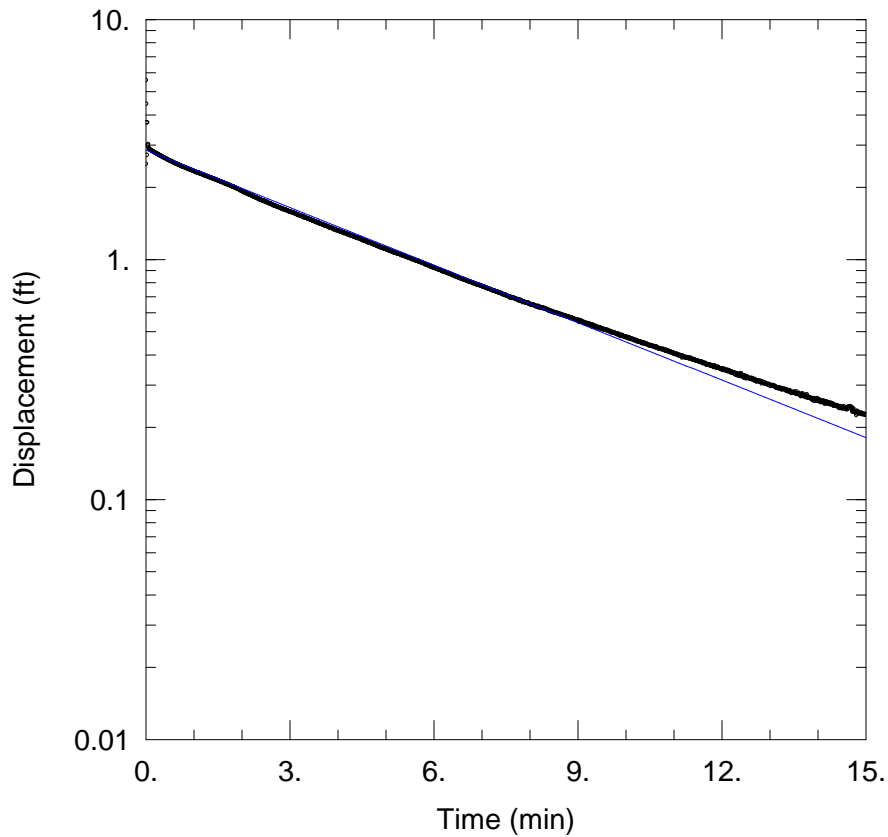
Saturated Thickness: 5.11 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (6A-100)

Initial Displacement: 2.5 ft
 Total Well Penetration Depth: 5.11 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 83.88 ft
 Screen Length: 1.7 ft
 Well Radius: 0.3438 ft



6A-100 FALLING HEAD TEST 3

Data Set: N:\...\6A-100-FH3.aqt
 Date: 05/01/13 Time: 15:34:47

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 6A-100
 Test Date: March 1, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0005005$ cm/sec
 $y_0 = 2.858$ ft

AQUIFER DATA

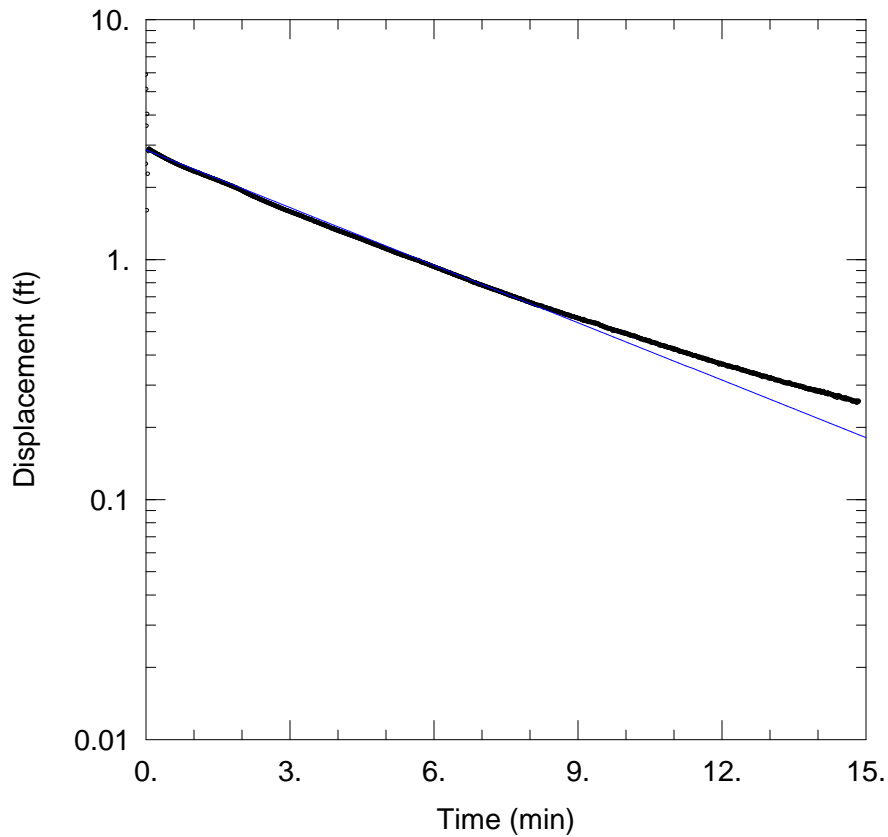
Saturated Thickness: 5.11 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (6A-100)

Initial Displacement: 2.5 ft
 Total Well Penetration Depth: 5.11 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 83.88 ft
 Screen Length: 1.7 ft
 Well Radius: 0.3438 ft



6A-100 FALLING HEAD TEST 4

Data Set: N:\...\6A-100-FH4.aqt
 Date: 05/01/13 Time: 15:34:31

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 6A-100
 Test Date: March 1, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0005005$ cm/sec
 $y_0 = 2.858$ ft

AQUIFER DATA

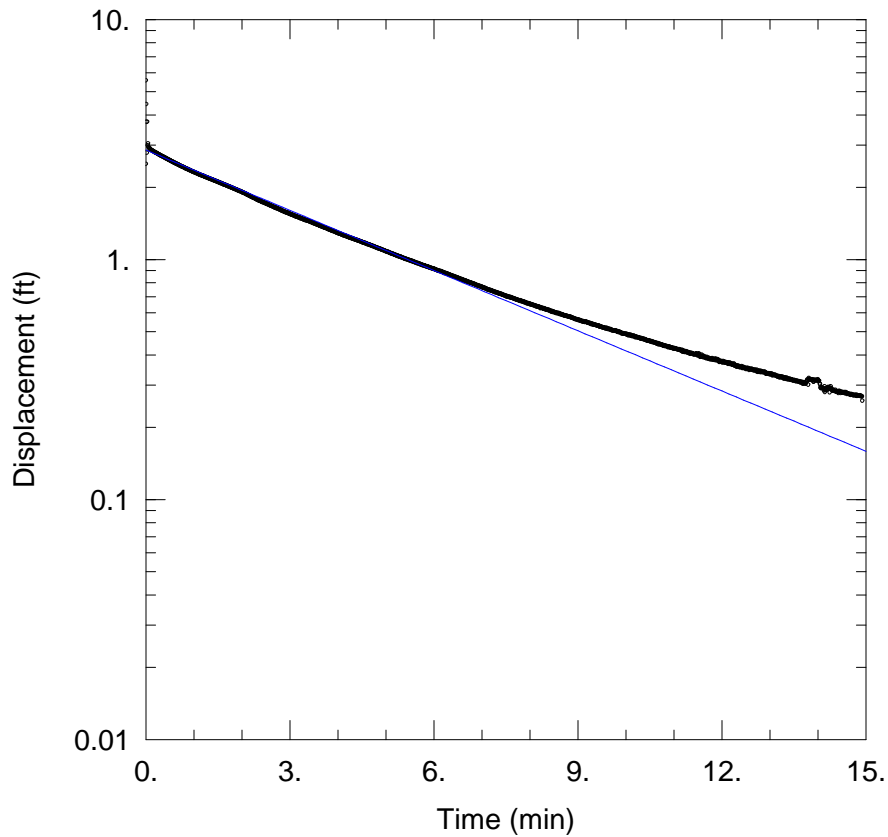
Saturated Thickness: 5.11 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (6A-100)

Initial Displacement: 2.5 ft
 Total Well Penetration Depth: 5.11 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 83.88 ft
 Screen Length: 1.7 ft
 Well Radius: 0.3438 ft



6A-100 FALLING HEAD TEST 5

Data Set: N:\...\6A-100-FH5.aqt
 Date: 05/01/13 Time: 15:34:14

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 6A-100
 Test Date: March 1, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.000524$ cm/sec
 $y_0 = 2.858$ ft

AQUIFER DATA

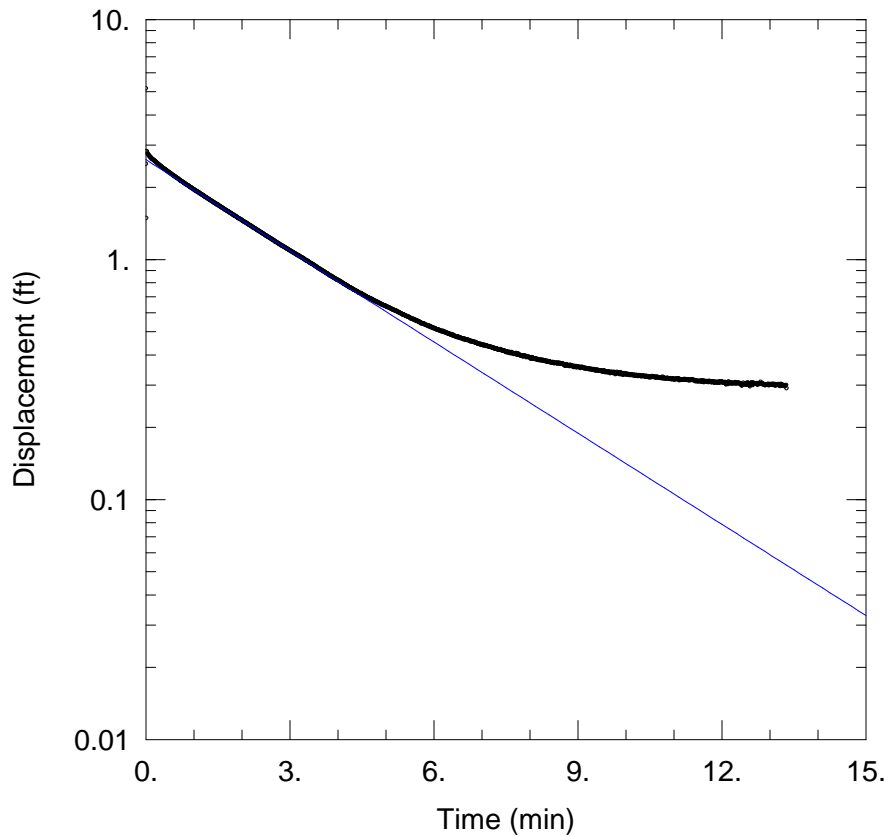
Saturated Thickness: 5.11 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (6A-100)

Initial Displacement: 2.5 ft
 Total Well Penetration Depth: 5.11 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 83.88 ft
 Screen Length: 1.7 ft
 Well Radius: 0.3438 ft



6A-100 RISING HEAD TEST 1

Data Set: N:\...\6A-100-RH1.aqt
 Date: 05/01/13 Time: 15:40:46

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 6A-100
 Test Date: March 1, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0007932$ cm/sec
 $y_0 = 2.607$ ft

AQUIFER DATA

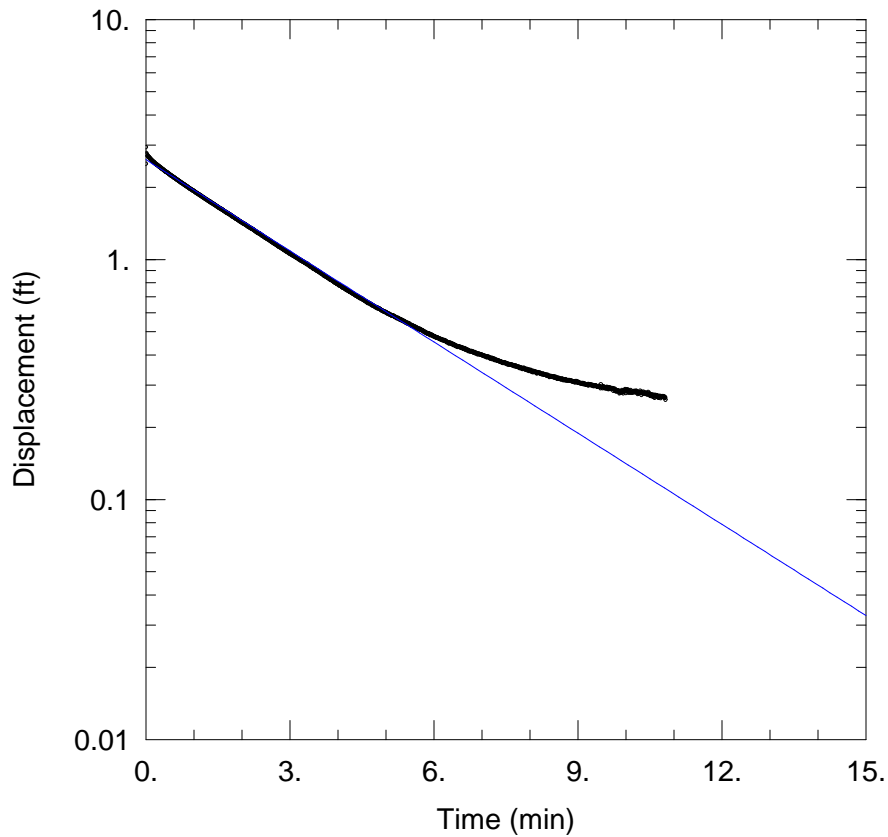
Saturated Thickness: 5.11 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (6A-100)

Initial Displacement: 2.5 ft
 Total Well Penetration Depth: 5.11 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 83.88 ft
 Screen Length: 1.7 ft
 Well Radius: 0.3438 ft



6A-100 RISING HEAD TEST 2

Data Set: N:\...\6A-100-RH2.aqt
 Date: 05/01/13 Time: 15:40:32

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 6A-100
 Test Date: March 1, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0007932$ cm/sec
 $y_0 = 2.607$ ft

AQUIFER DATA

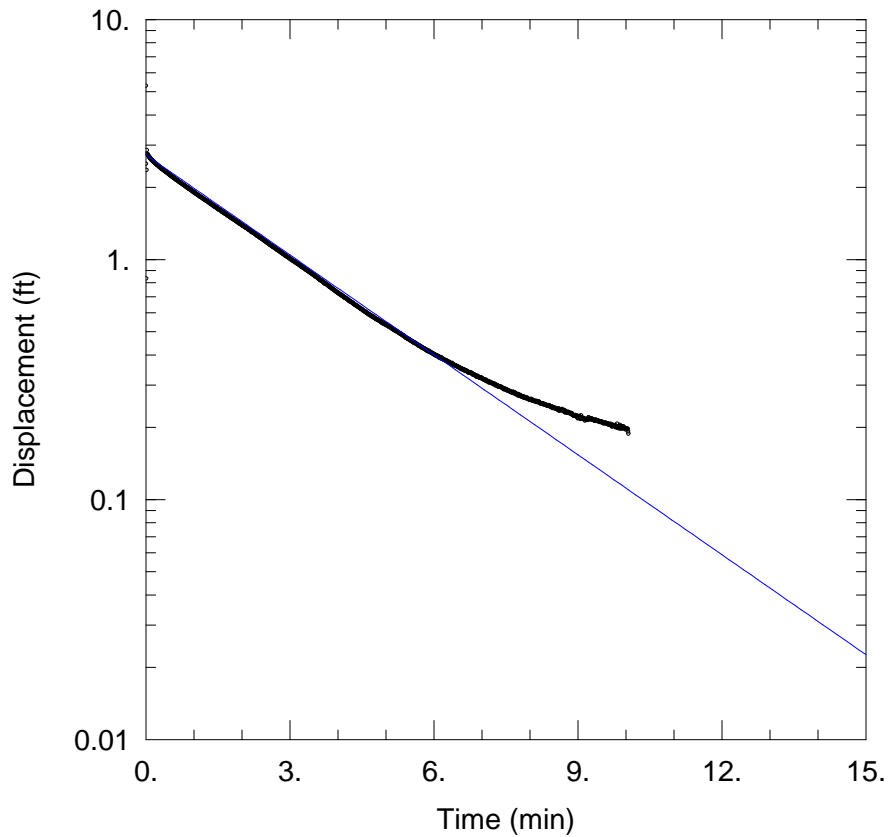
Saturated Thickness: 5.11 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (6A-100)

Initial Displacement: 2.5 ft
 Total Well Penetration Depth: 5.11 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 83.88 ft
 Screen Length: 1.7 ft
 Well Radius: 0.3438 ft



6A-100 RISING HEAD TEST 3

Data Set: N:\...\6A-100-RH3.aqt
 Date: 05/01/13 Time: 15:40:16

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 6A-100
 Test Date: March 1, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0008697$ cm/sec
 $y_0 = 2.73$ ft

AQUIFER DATA

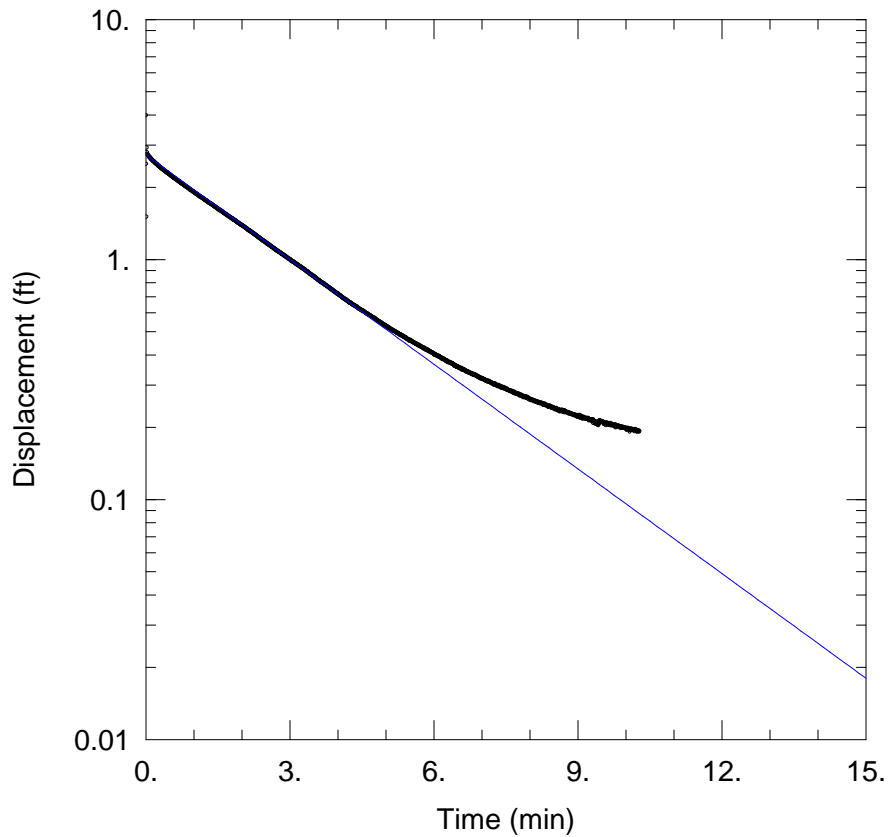
Saturated Thickness: 5.11 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (6A-100)

Initial Displacement: 2.5 ft
 Total Well Penetration Depth: 5.11 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 83.88 ft
 Screen Length: 1.7 ft
 Well Radius: 0.3438 ft



6A-100 RISING HEAD TEST 4

Data Set: N:\...\6A-100-RH4.aqt
 Date: 05/01/13 Time: 15:40:00

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 6A-100
 Test Date: March 1, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0009107$ cm/sec
 $y_0 = 2.73$ ft

AQUIFER DATA

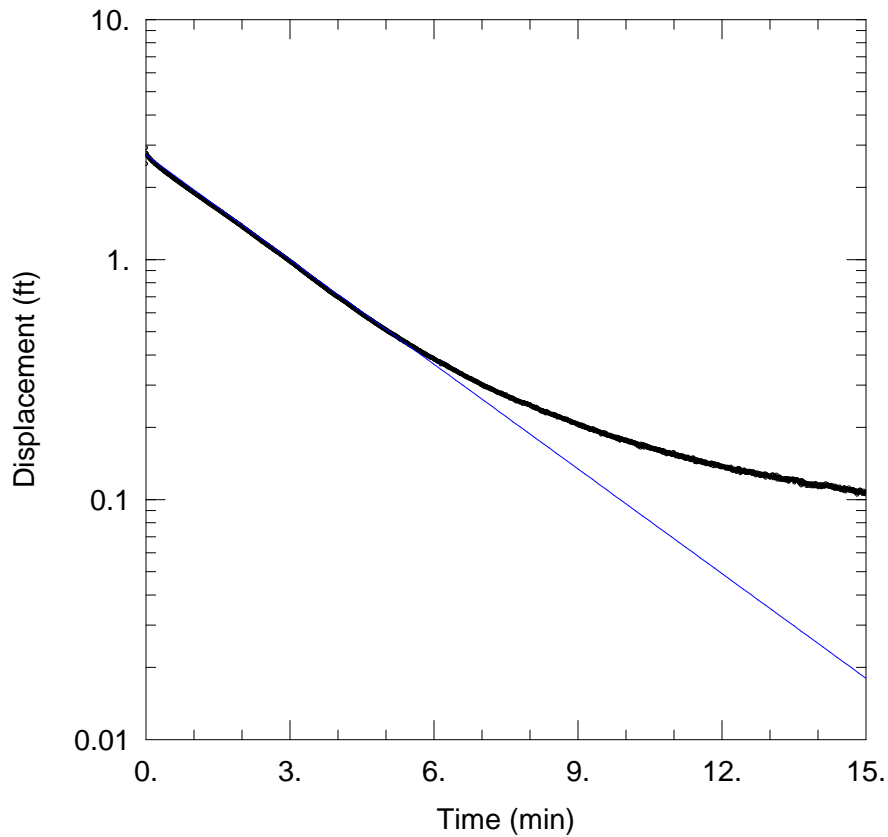
Saturated Thickness: 5.11 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (6A-100)

Initial Displacement: 2.5 ft
 Total Well Penetration Depth: 5.11 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 83.88 ft
 Screen Length: 1.7 ft
 Well Radius: 0.3438 ft



6A-100 RISING HEAD TEST 5

Data Set: N:\...\6A-100-RH5.aqt
 Date: 05/01/13 Time: 15:39:44

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 6A-100
 Test Date: March 1, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0009107$ cm/sec
 $y_0 = 2.73$ ft

AQUIFER DATA

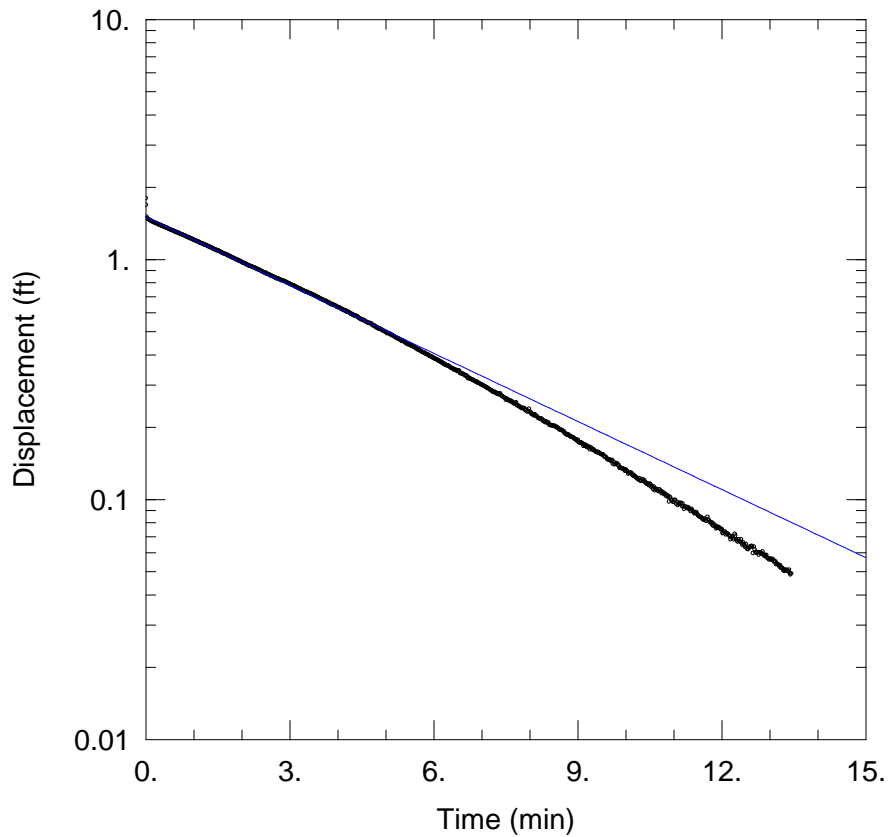
Saturated Thickness: 5.11 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (6A-100)

Initial Displacement: 2.5 ft
 Total Well Penetration Depth: 5.11 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 83.88 ft
 Screen Length: 1.7 ft
 Well Radius: 0.3438 ft



6A-50 RISING HEAD TEST 1

Data Set: N:\...\6A-50-RH1 - 15 min.aqt
 Date: 05/13/13 Time: 09:53:02

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 6A-50
 Test Date: February 21, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.0004564 cm/sec
 y0 = 1.5 ft

AQUIFER DATA

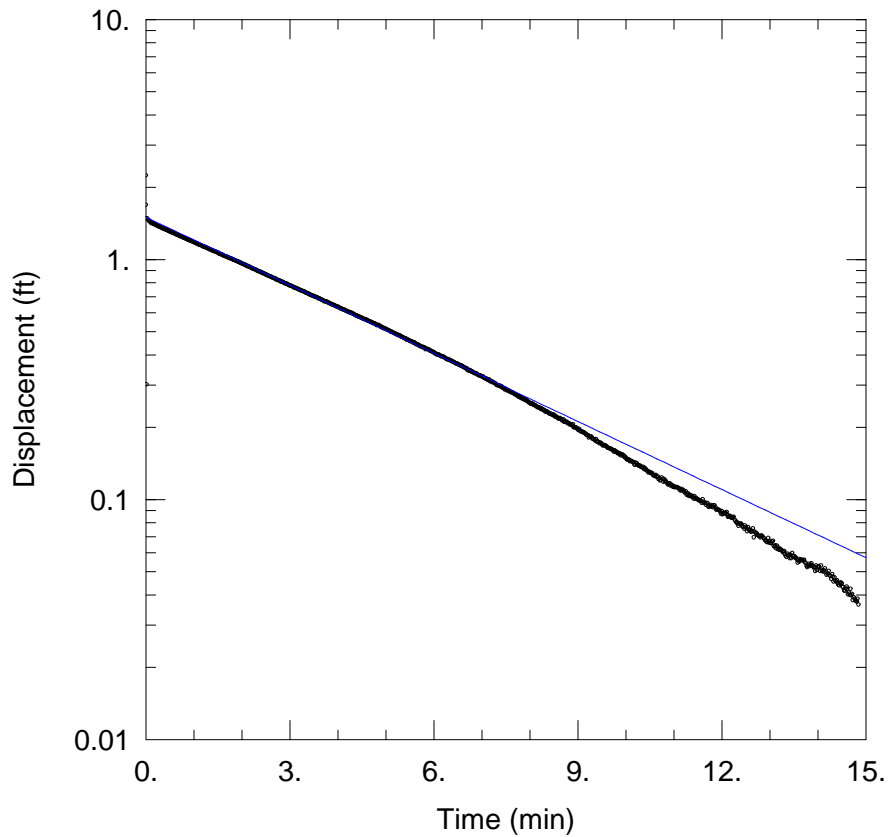
Saturated Thickness: 9.65 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (6A-50)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 9.65 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 39.19 ft
 Screen Length: 2.65 ft
 Well Radius: 0.3438 ft



6A-50 RISING HEAD TEST 2

Data Set: N:\...\6A-50-RH2 - 15 min.aqt
 Date: 05/13/13 Time: 09:53:15

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 6A-50
 Test Date: February 22, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0004564$ cm/sec
 $y_0 = 1.5$ ft

AQUIFER DATA

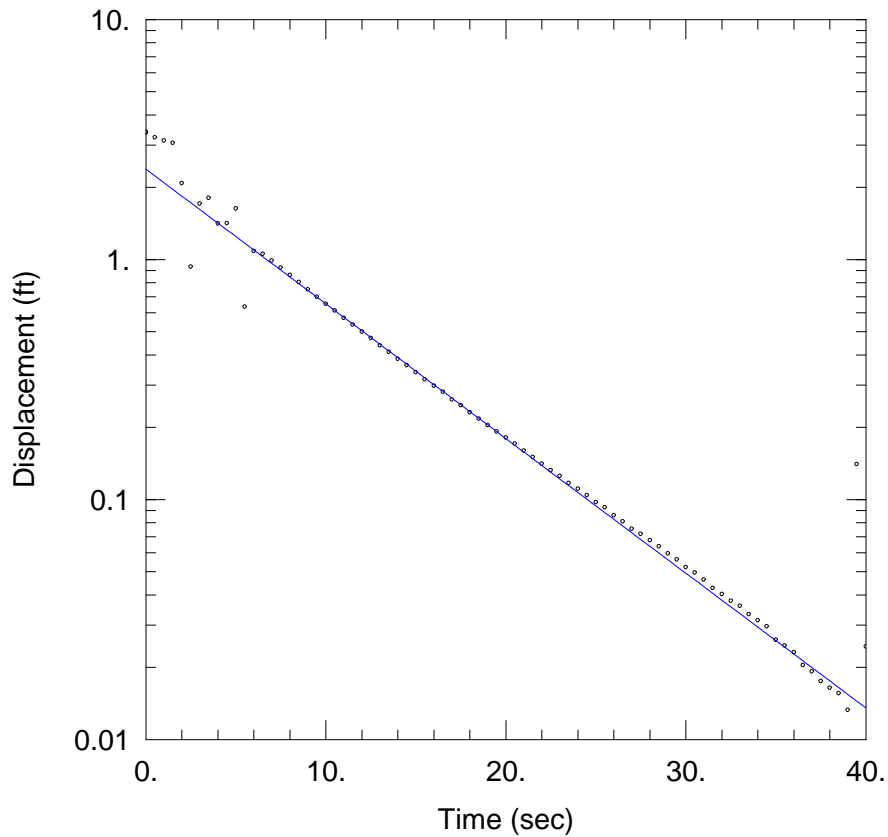
Saturated Thickness: 9.65 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (6A-50)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 9.65 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 39.19 ft
 Screen Length: 2.65 ft
 Well Radius: 0.3438 ft



709-MW06-25 FALLING HEAD TEST 1

Data Set: N:\...\709-MW06-25-FH1.aqt

Date: 05/08/13

Time: 08:41:35

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW06-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.00827 cm/sec

y0 = 2.378 ft

AQUIFER DATA

Saturated Thickness: 7.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW06-25)

Initial Displacement: 3.375 ft

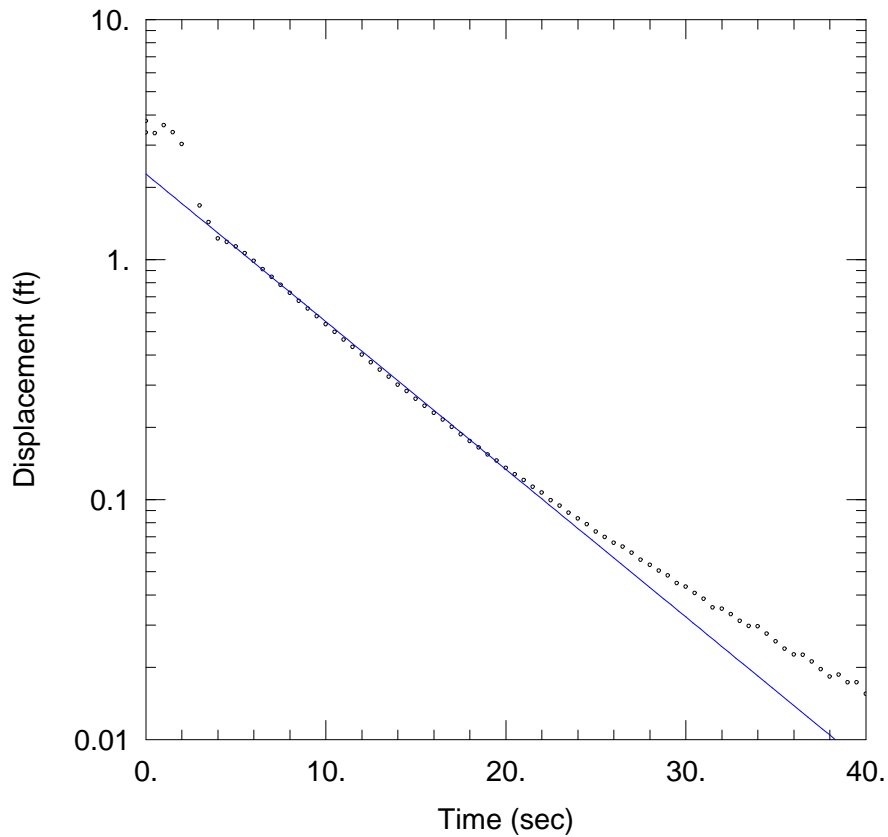
Total Well Penetration Depth: 6.3 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 16.21 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW06-25 FALLING HEAD TEST 2

Data Set: N:\...\709-MW06-25-FH2.aqt

Date: 05/08/13

Time: 08:42:03

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW06-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.009068$ cm/sec

$y_0 = 2.271$ ft

AQUIFER DATA

Saturated Thickness: 7.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (709-MW06-25)

Initial Displacement: 3.375 ft

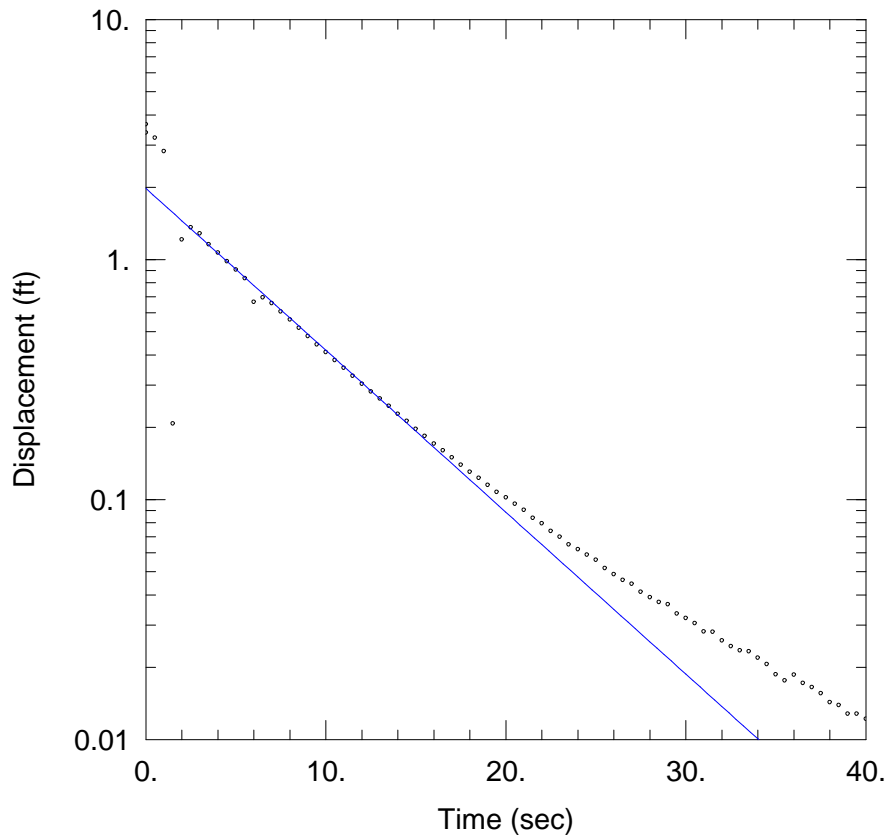
Total Well Penetration Depth: 6.3 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 16.21 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW06-25 FALLING HEAD TEST 3

Data Set: N:\...\709-MW06-25-FH3.aqt

Date: 05/08/13

Time: 08:41:48

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW06-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.009943 cm/sec

y0 = 1.978 ft

AQUIFER DATA

Saturated Thickness: 7.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW06-25)

Initial Displacement: 3.375 ft

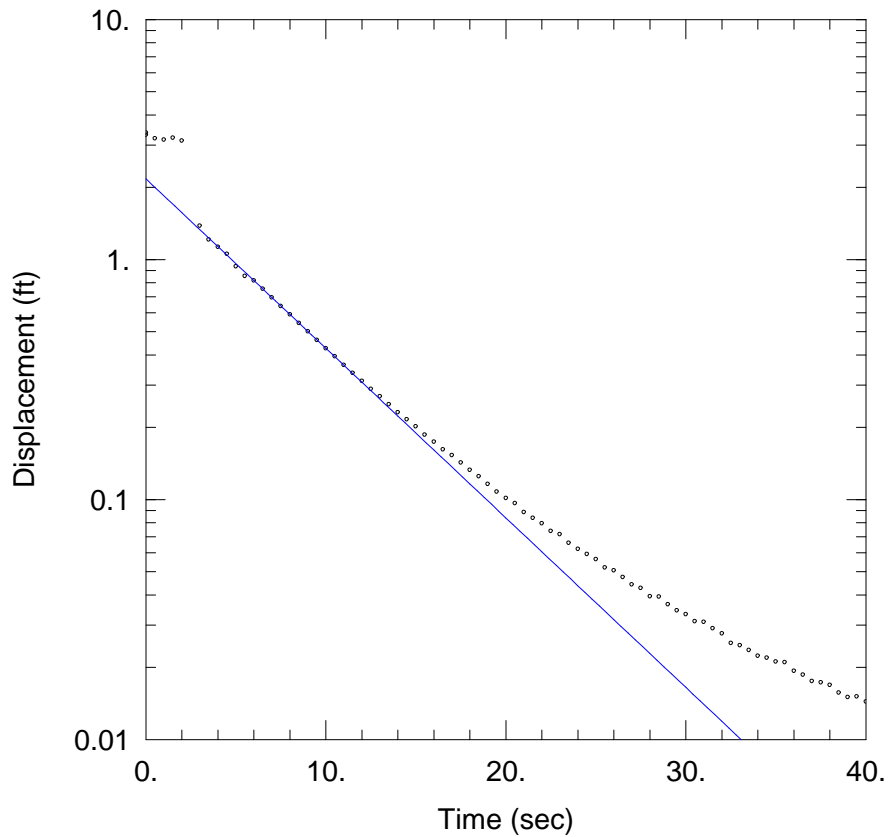
Total Well Penetration Depth: 6.3 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 16.21 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW06-25 FALLING HEAD TEST 4

Data Set: N:\...\709-MW06-25-FH4.aqt

Date: 05/08/13

Time: 08:41:19

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW06-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01041 cm/sec

y0 = 2.168 ft

AQUIFER DATA

Saturated Thickness: 7.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW06-25)

Initial Displacement: 3.375 ft

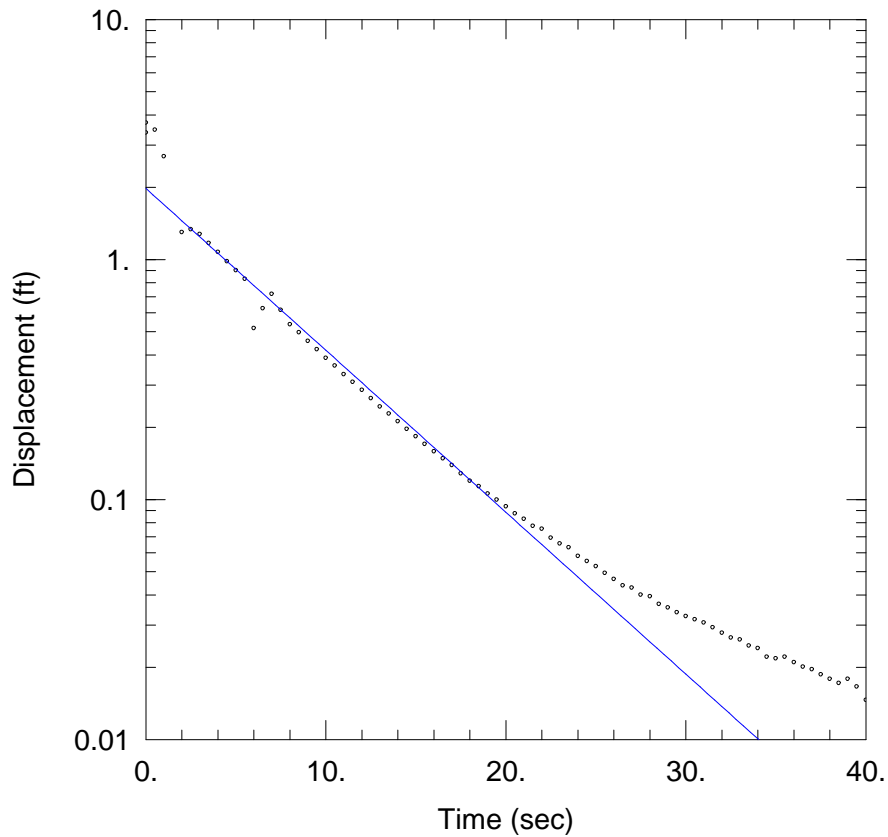
Total Well Penetration Depth: 6.3 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 16.21 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW06-25 FALLING HEAD TEST 5

Data Set: N:\...\709-MW06-25-FH5.aqt

Date: 05/08/13

Time: 08:41:05

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW06-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.009943 cm/sec

y0 = 1.978 ft

AQUIFER DATA

Saturated Thickness: 7.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW06-25)

Initial Displacement: 3.375 ft

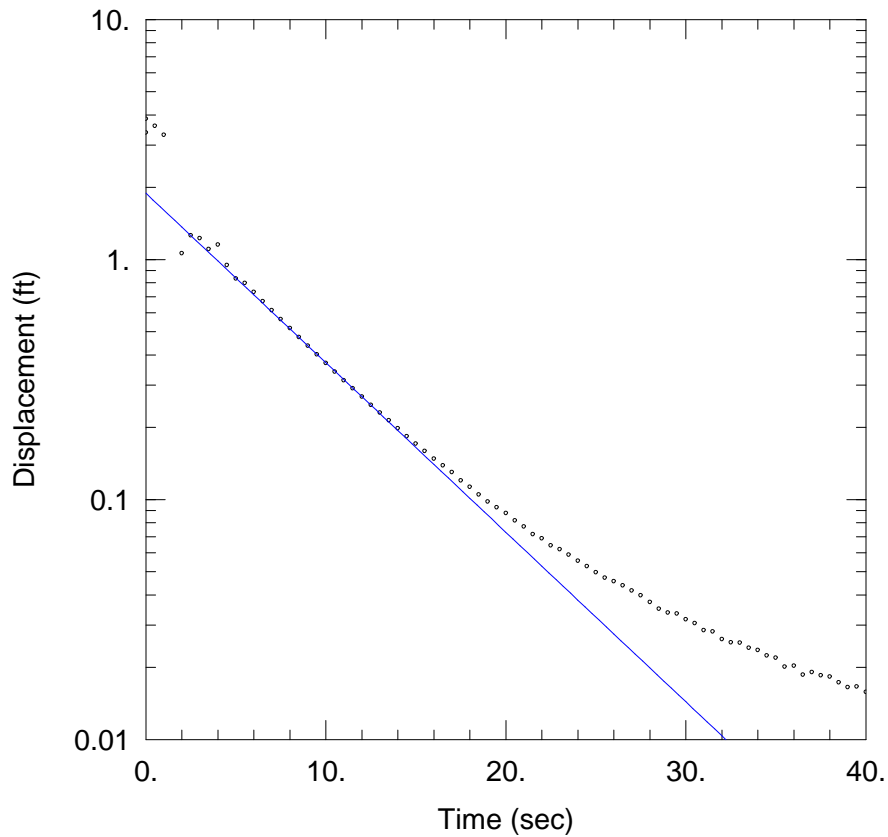
Total Well Penetration Depth: 6.3 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 16.21 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW06-25 FALLING HEAD TEST 6

Data Set: N:\...\709-MW06-25-FH6.aqt

Date: 05/08/13

Time: 08:40:51

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW06-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01041 cm/sec

y0 = 1.889 ft

AQUIFER DATA

Saturated Thickness: 7.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW06-25)

Initial Displacement: 3.375 ft

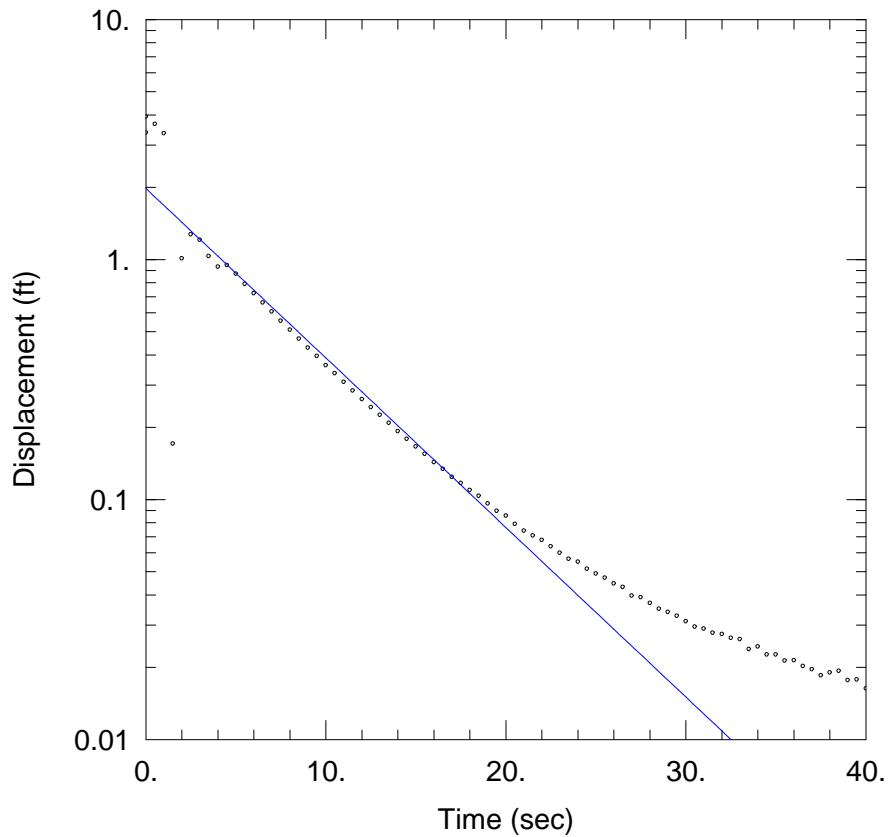
Total Well Penetration Depth: 6.3 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 16.21 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW06-25 FALLING HEAD TEST 7

Data Set: N:\...\709-MW06-25-FH7.aqt

Date: 05/08/13

Time: 08:40:26

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW06-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01041 cm/sec

y0 = 1.978 ft

AQUIFER DATA

Saturated Thickness: 7.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW06-25)

Initial Displacement: 3.375 ft

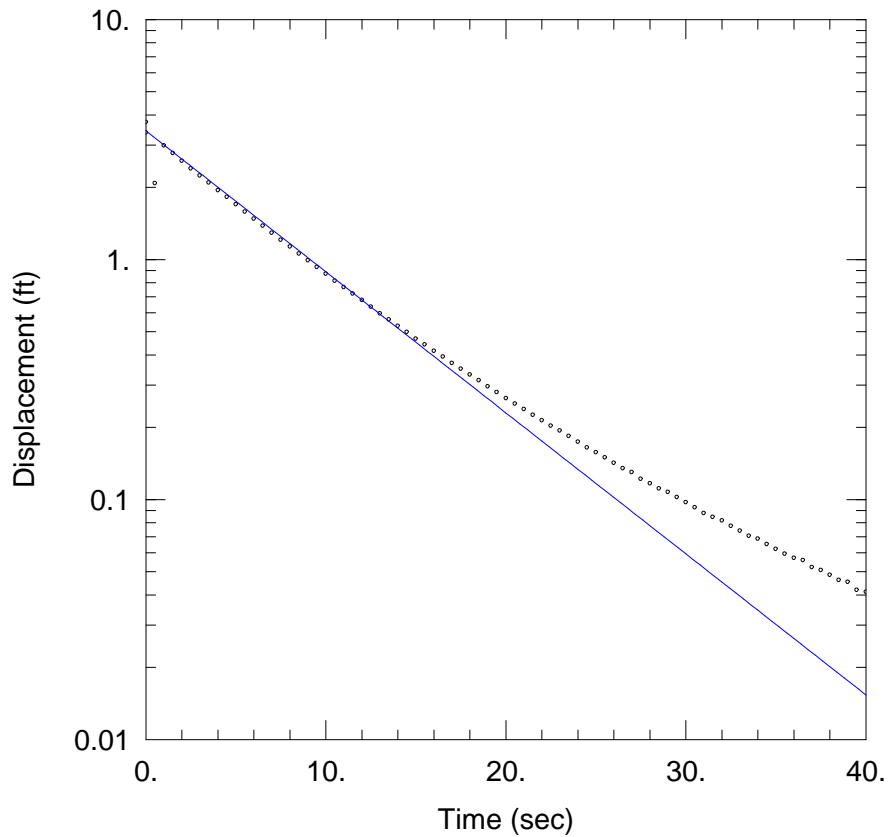
Total Well Penetration Depth: 6.3 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 16.21 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW06-25 RISING HEAD TEST 1

Data Set: N:\...\709-MW06-25-RH1.aqt

Date: 05/08/13

Time: 08:47:12

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW06-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.00866 cm/sec

y0 = 3.437 ft

AQUIFER DATA

Saturated Thickness: 7.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW06-25)

Initial Displacement: 3.375 ft

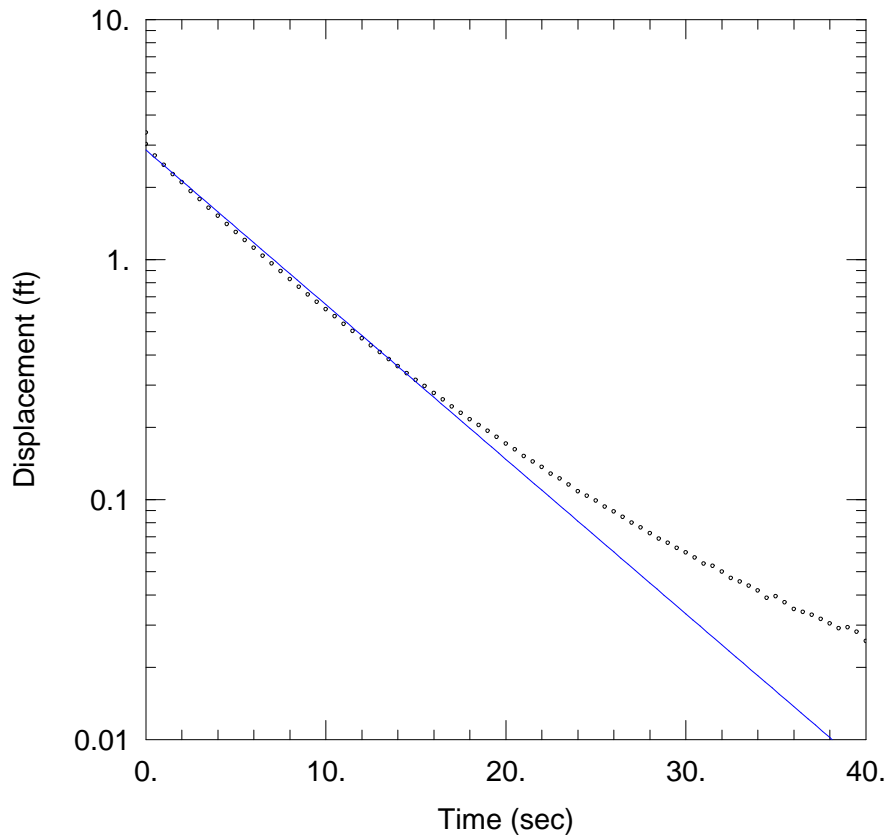
Total Well Penetration Depth: 6.3 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 16.21 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW06-25 RISING HEAD TEST 2

Data Set: N:\...\709-MW06-25-RH2.aqt

Date: 05/08/13

Time: 08:46:58

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW06-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.009496 cm/sec

y0 = 2.858 ft

AQUIFER DATA

Saturated Thickness: 7.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW06-25)

Initial Displacement: 3.375 ft

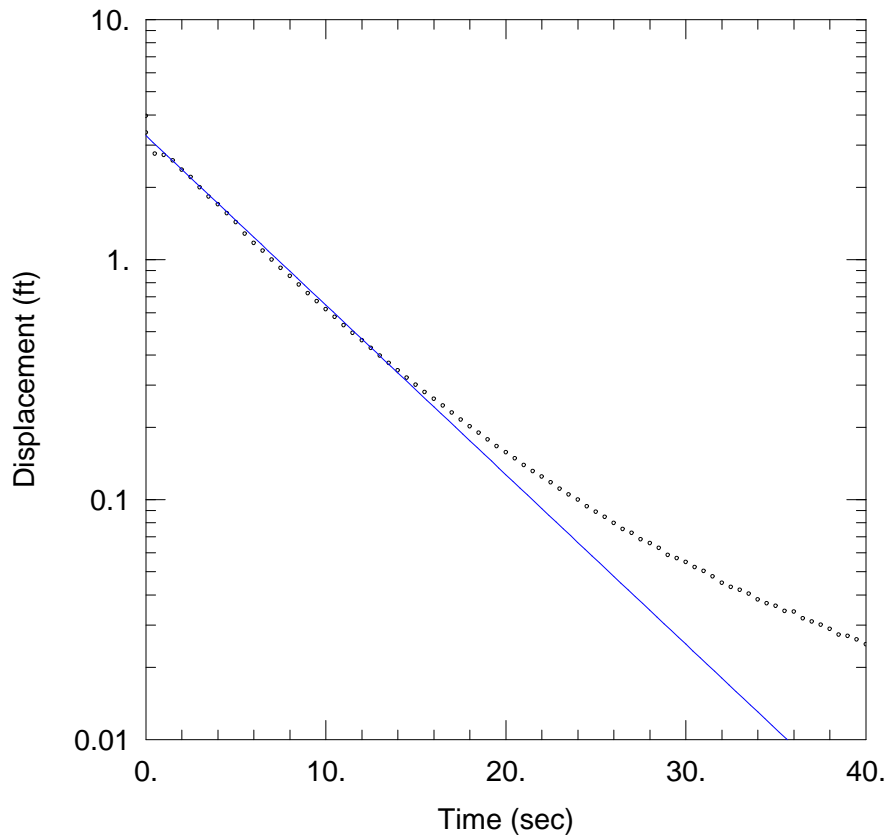
Total Well Penetration Depth: 6.3 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 16.21 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW06-25 RISING HEAD TEST 3

Data Set: N:\...\709-MW06-25-RH3.aqt

Date: 05/08/13

Time: 08:46:45

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW06-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01041 cm/sec

y0 = 3.282 ft

AQUIFER DATA

Saturated Thickness: 7.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW06-25)

Initial Displacement: 3.375 ft

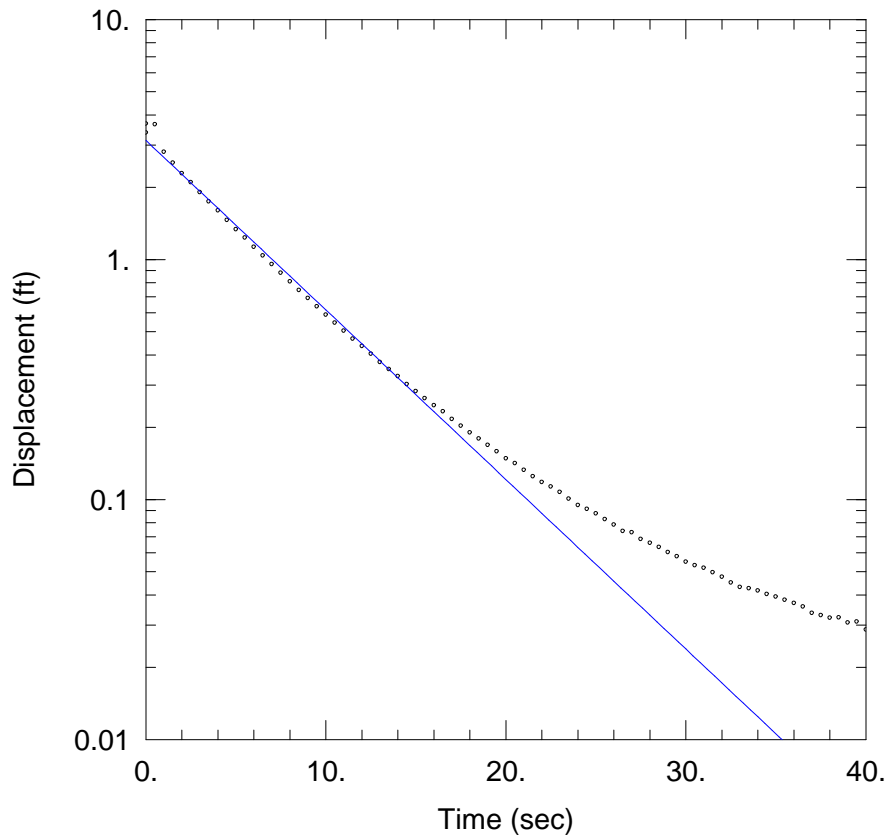
Total Well Penetration Depth: 6.3 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 16.21 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW06-25 RISING HEAD TEST 4

Data Set: N:\...\709-MW06-25-RH4.aqt

Date: 05/08/13

Time: 08:46:31

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW06-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01041 cm/sec

y0 = 3.134 ft

AQUIFER DATA

Saturated Thickness: 7.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW06-25)

Initial Displacement: 3.375 ft

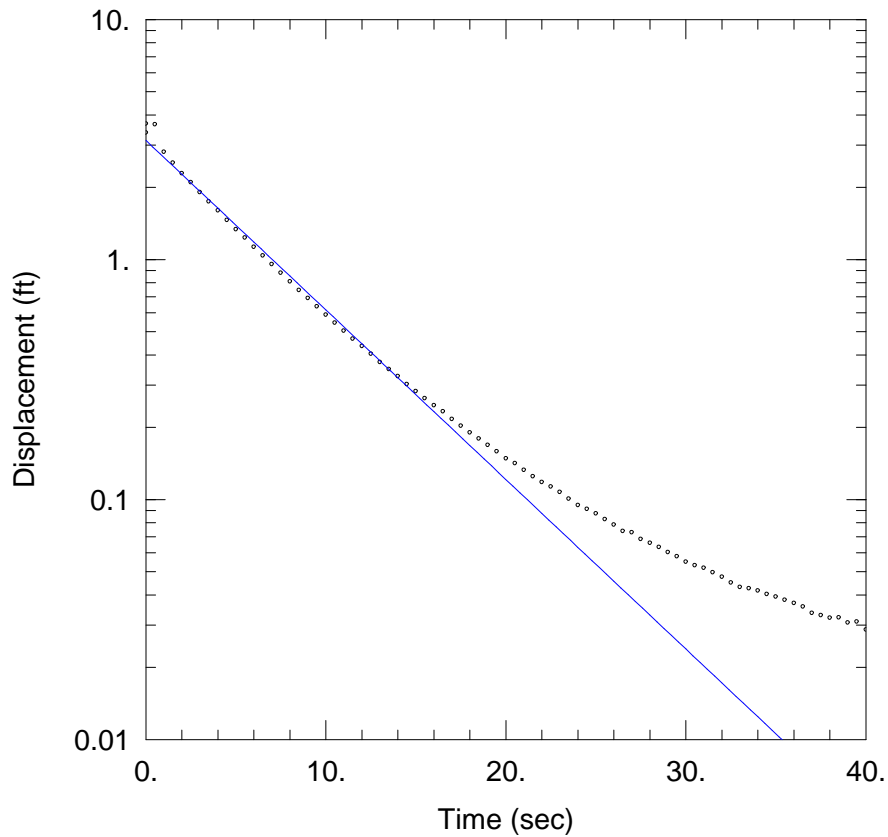
Total Well Penetration Depth: 6.3 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 16.21 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW06-25 RISING HEAD TEST 5

Data Set: N:\...\709-MW06-25-RH5.aqt

Date: 05/08/13

Time: 08:46:18

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW06-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01041 cm/sec

y0 = 3.134 ft

AQUIFER DATA

Saturated Thickness: 7.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW06-25)

Initial Displacement: 3.375 ft

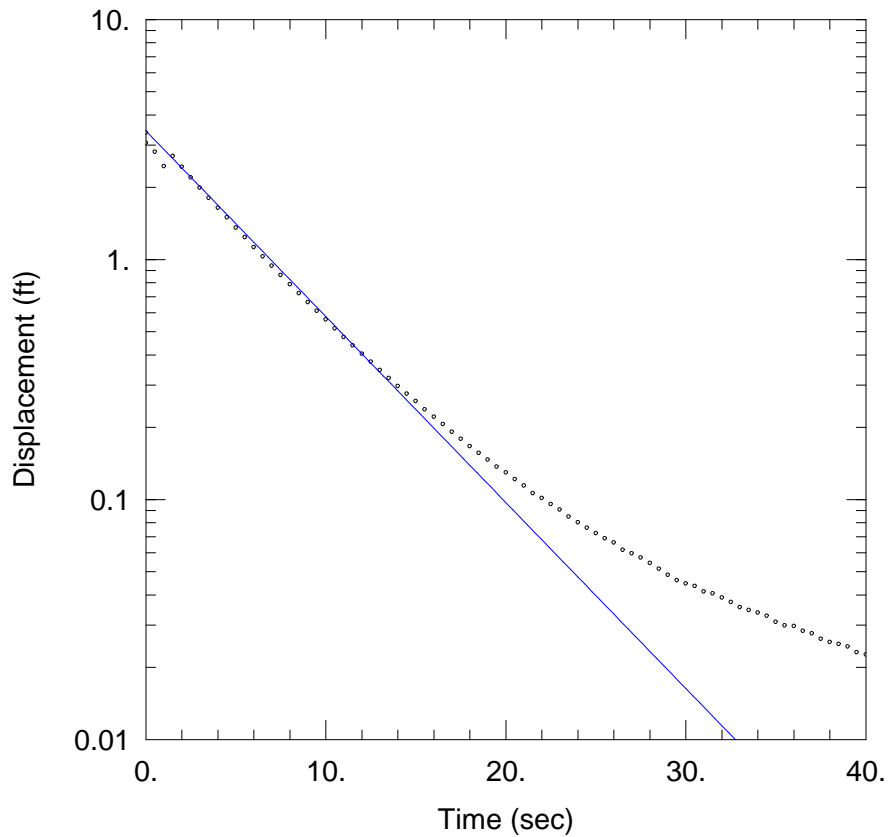
Total Well Penetration Depth: 6.3 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 16.21 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW06-25 RISING HEAD TEST 6

Data Set: N:\...\709-MW06-25-RH6.aqt

Date: 05/08/13

Time: 08:46:04

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW06-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01142 cm/sec

y0 = 3.437 ft

AQUIFER DATA

Saturated Thickness: 7.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW06-25)

Initial Displacement: 3.375 ft

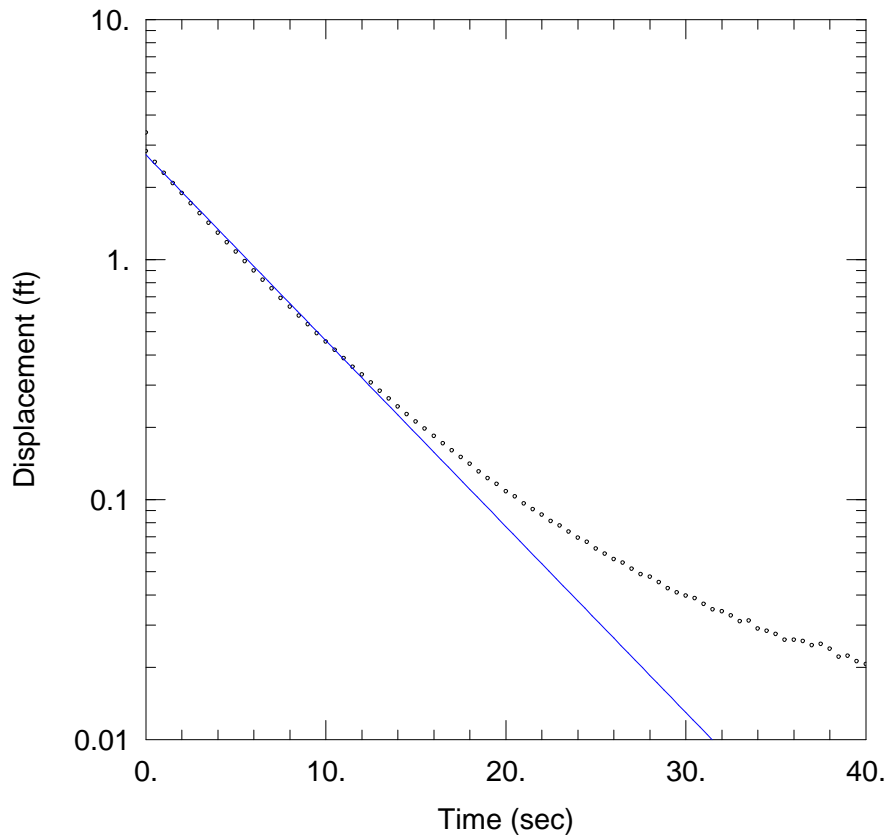
Total Well Penetration Depth: 6.3 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 16.21 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW06-25 RISING HEAD TEST 7

Data Set: N:\...\709-MW06-25-RH7.aqt

Date: 05/08/13

Time: 08:45:49

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW06-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01142 cm/sec

y0 = 2.73 ft

AQUIFER DATA

Saturated Thickness: 7.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW06-25)

Initial Displacement: 3.375 ft

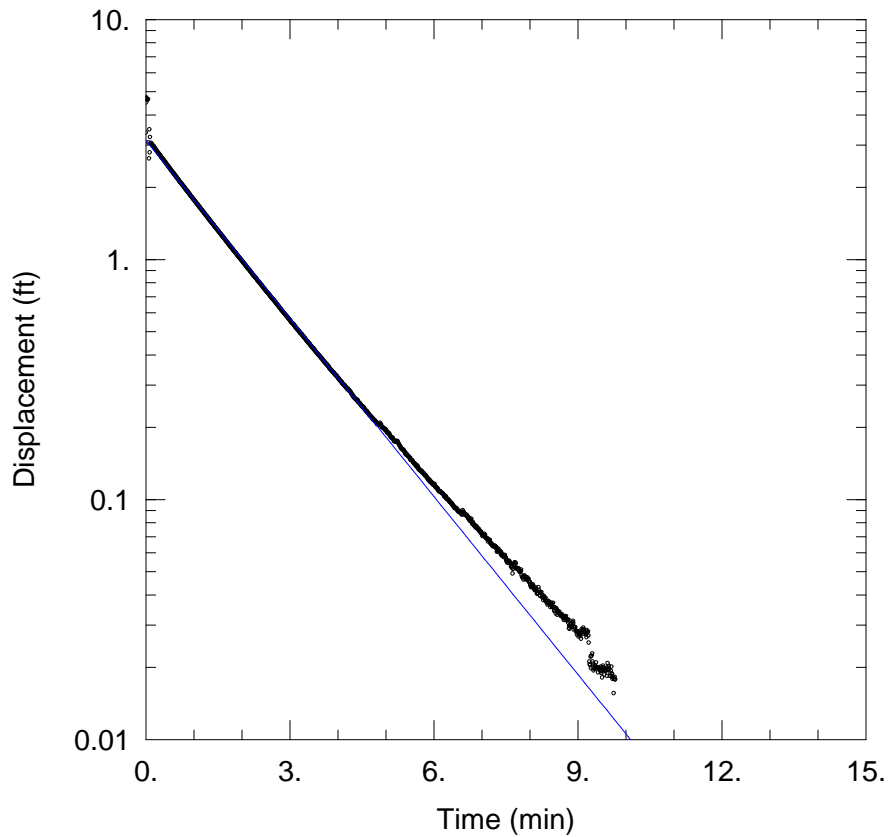
Total Well Penetration Depth: 6.3 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 16.21 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW06-50 FALLING HEAD TEST 1

Data Set: N:\...\709-MW06-50-FH1.aqt

Date: 05/13/13

Time: 14:24:46

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW06-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.00063 cm/sec

y0 = 3.134 ft

AQUIFER DATA

Saturated Thickness: 9.7 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW06-50)

Initial Displacement: 3.375 ft

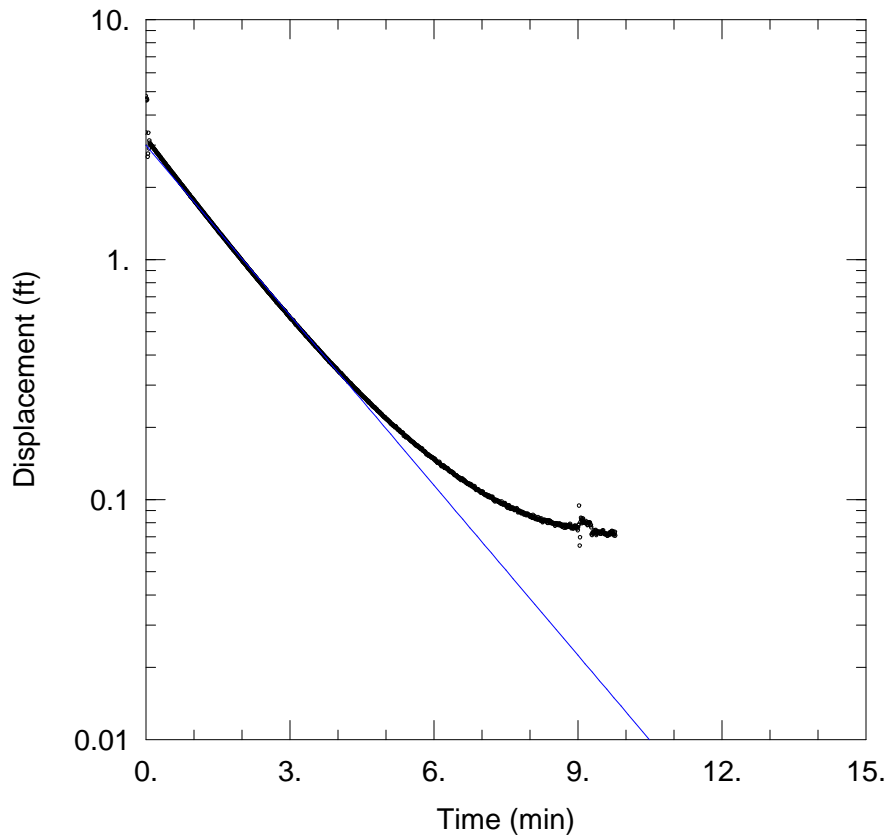
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.69 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW06-50 FALLING HEAD TEST 2

Data Set: N:\...\709-MW06-50-FH2.aqt

Date: 05/08/13

Time: 09:21:45

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW06-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0006017 cm/sec

y0 = 2.993 ft

AQUIFER DATA

Saturated Thickness: 9.7 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW06-50)

Initial Displacement: 3.375 ft

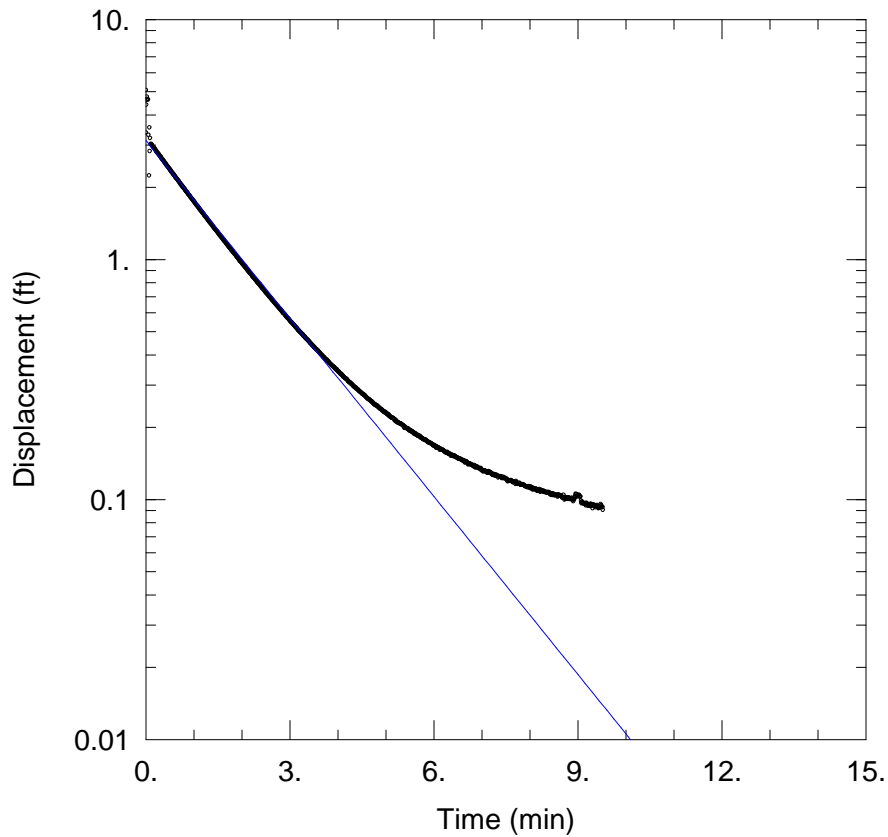
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.69 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW06-50 FALLING HEAD TEST 3

Data Set: N:\...\709-MW06-50-FH3.aqt

Date: 05/08/13

Time: 09:21:31

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW06-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.00063 cm/sec

y0 = 3.134 ft

AQUIFER DATA

Saturated Thickness: 9.7 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW06-50)

Initial Displacement: 3.375 ft

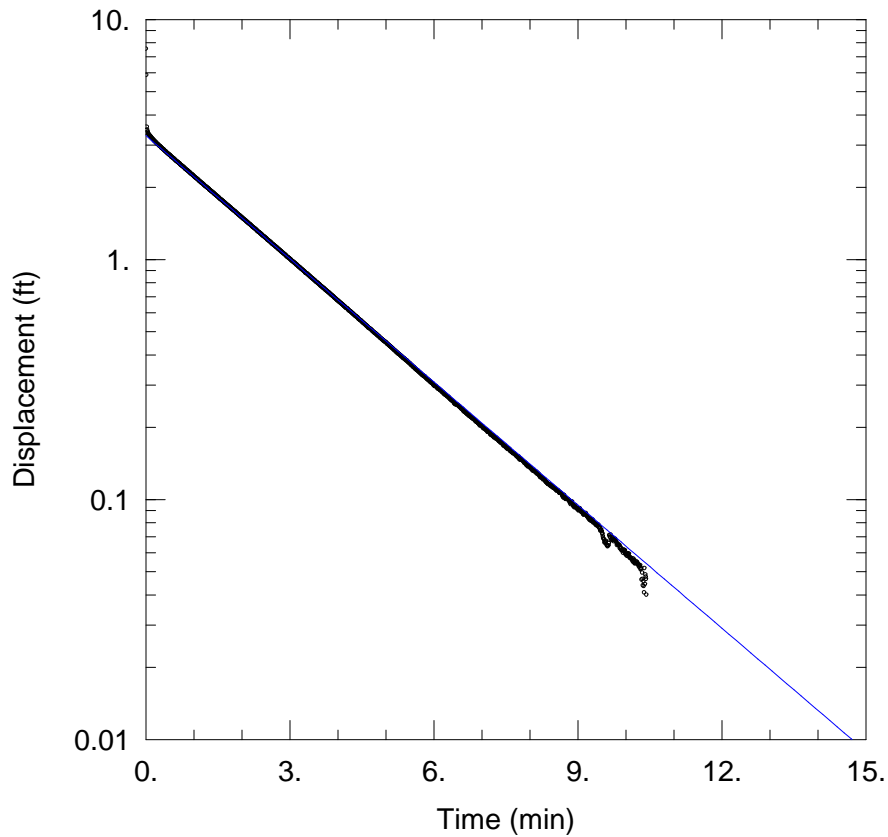
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.69 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW06-50 RISING HEAD TEST 1

Data Set: N:\...\709-MW06-50-RH1.aqt

Date: 05/08/13

Time: 09:21:19

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW06-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0004359 cm/sec

y0 = 3.282 ft

AQUIFER DATA

Saturated Thickness: 9.7 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW06-50)

Initial Displacement: 3.375 ft

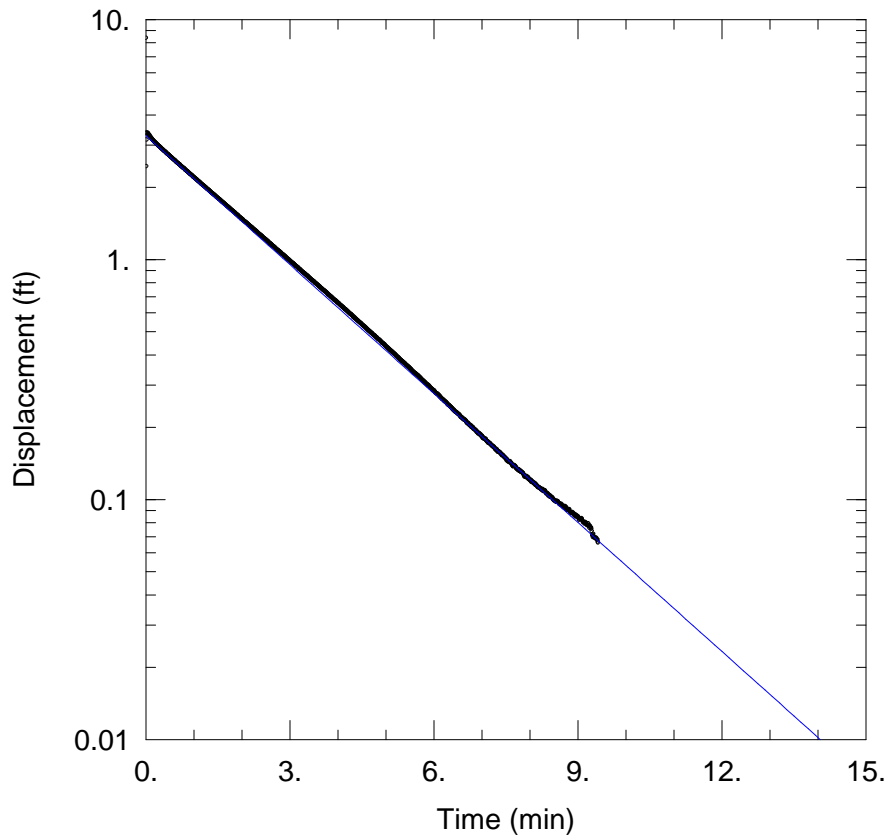
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.69 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW06-50 RISING HEAD TEST 2

Data Set: N:\...\709-MW06-50-RH2.aqt

Date: 05/08/13

Time: 09:21:06

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW06-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0004564 cm/sec

y0 = 3.282 ft

AQUIFER DATA

Saturated Thickness: 9.7 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW06-50)

Initial Displacement: 3.375 ft

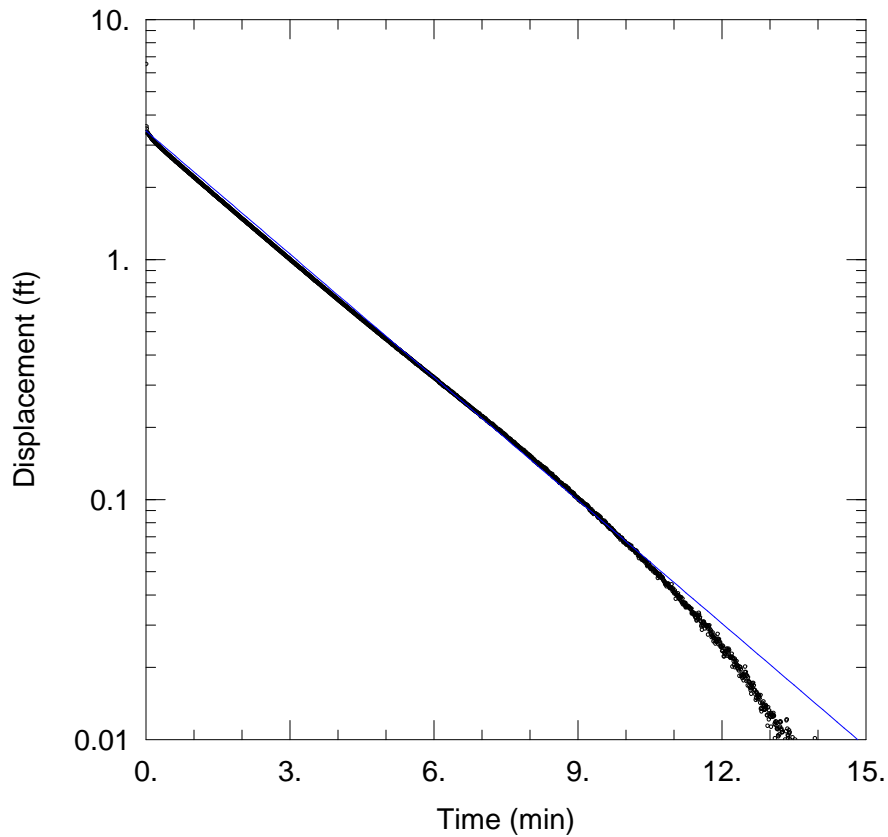
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.69 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW06-50 RISING HEAD TEST 3

Data Set: N:\...\709-MW06-50-RH3.aqt

Date: 05/08/13

Time: 09:20:48

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW06-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0004359 cm/sec

y0 = 3.437 ft

AQUIFER DATA

Saturated Thickness: 9.7 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW06-50)

Initial Displacement: 3.375 ft

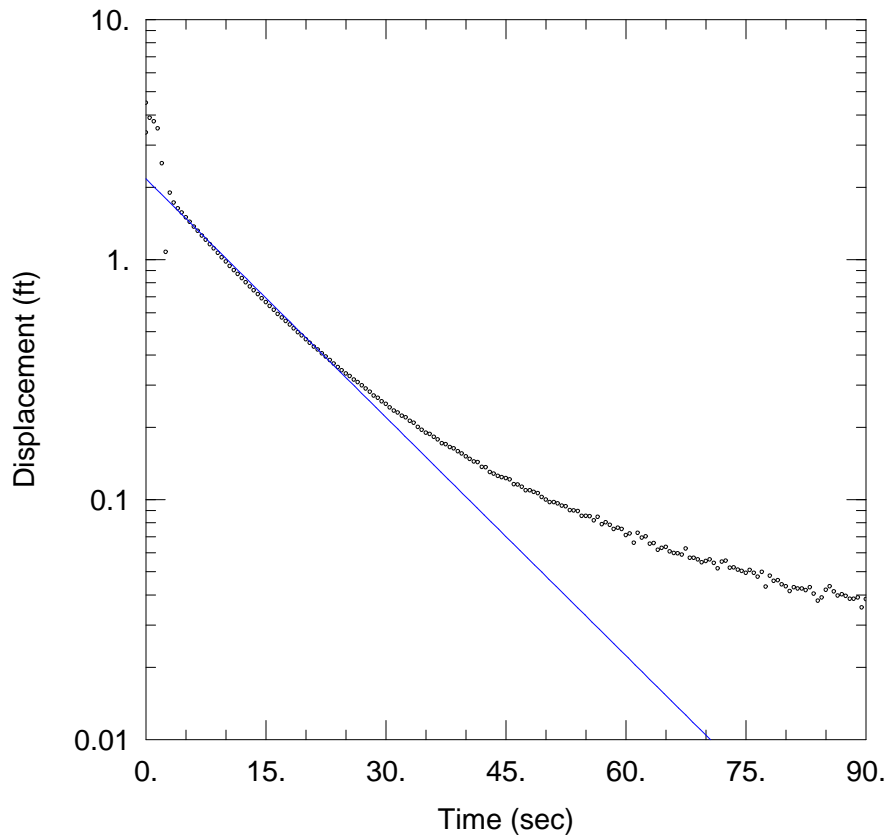
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.69 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW09-25 FALLING HEAD TEST 1

Data Set: N:\...\709-MW09-25-FH1.aqt

Date: 05/08/13

Time: 09:40:18

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW09-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.004983$ cm/sec

$y_0 = 2.168$ ft

AQUIFER DATA

Saturated Thickness: 8.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (709-MW09-25)

Initial Displacement: 3.375 ft

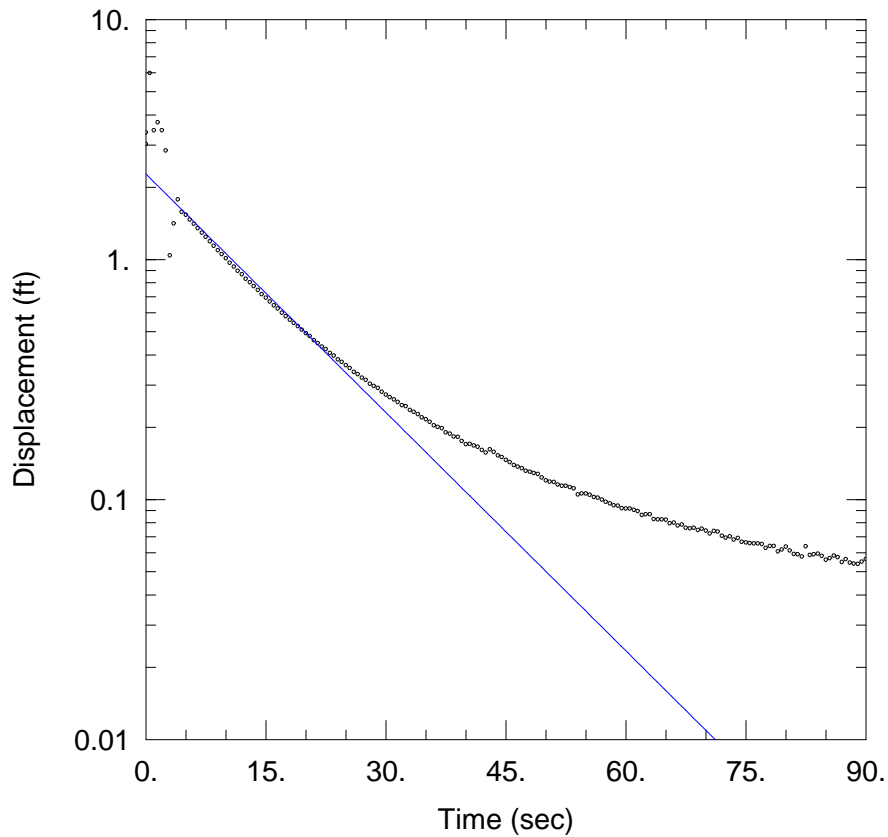
Total Well Penetration Depth: 7.2 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.41 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW09-25 FALLING HEAD TEST 2

Data Set: N:\...\709-MW09-25-FH2.aqt

Date: 05/08/13

Time: 09:40:05

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW09-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.004983$ cm/sec

$y_0 = 2.271$ ft

AQUIFER DATA

Saturated Thickness: 8.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (709-MW09-25)

Initial Displacement: 3.375 ft

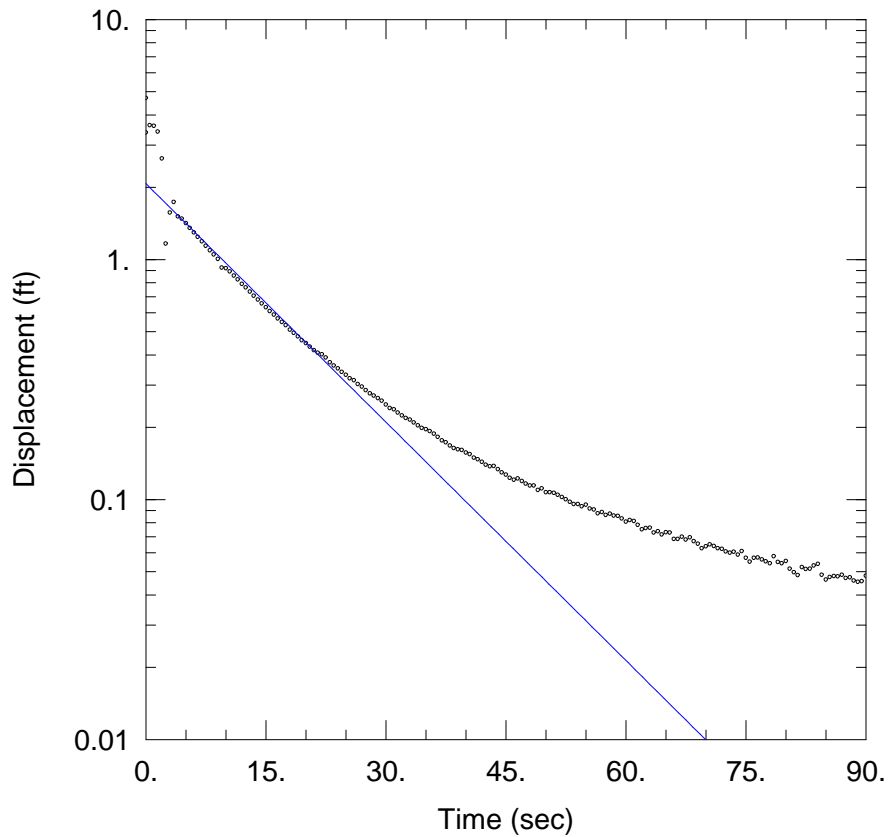
Total Well Penetration Depth: 7.2 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.41 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW09-25 FALLING HEAD TEST 3

Data Set: N:\...\709-MW09-25-FH3.aqt

Date: 05/08/13

Time: 09:39:51

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW09-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.004983 cm/sec

y0 = 2.071 ft

AQUIFER DATA

Saturated Thickness: 8.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW09-25)

Initial Displacement: 3.375 ft

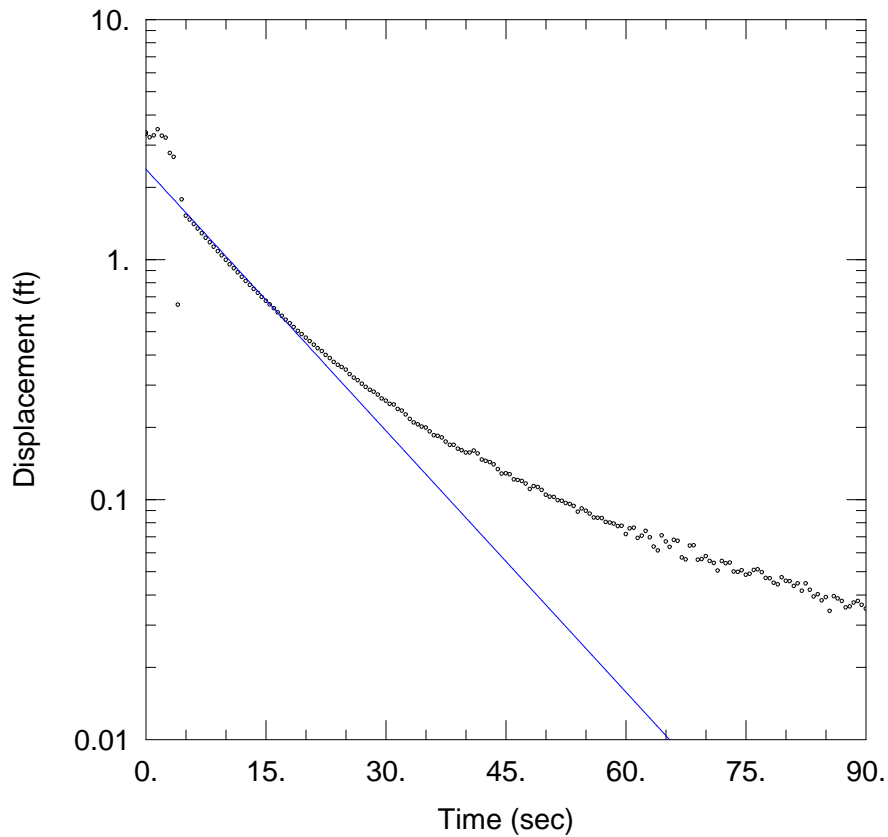
Total Well Penetration Depth: 7.2 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.41 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW09-25 FALLING HEAD TEST 4

Data Set: N:\...\709-MW09-25-FH4.aqt

Date: 05/08/13

Time: 09:39:38

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW09-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.005464$ cm/sec

$y_0 = 2.378$ ft

AQUIFER DATA

Saturated Thickness: 8.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (709-MW09-25)

Initial Displacement: 3.375 ft

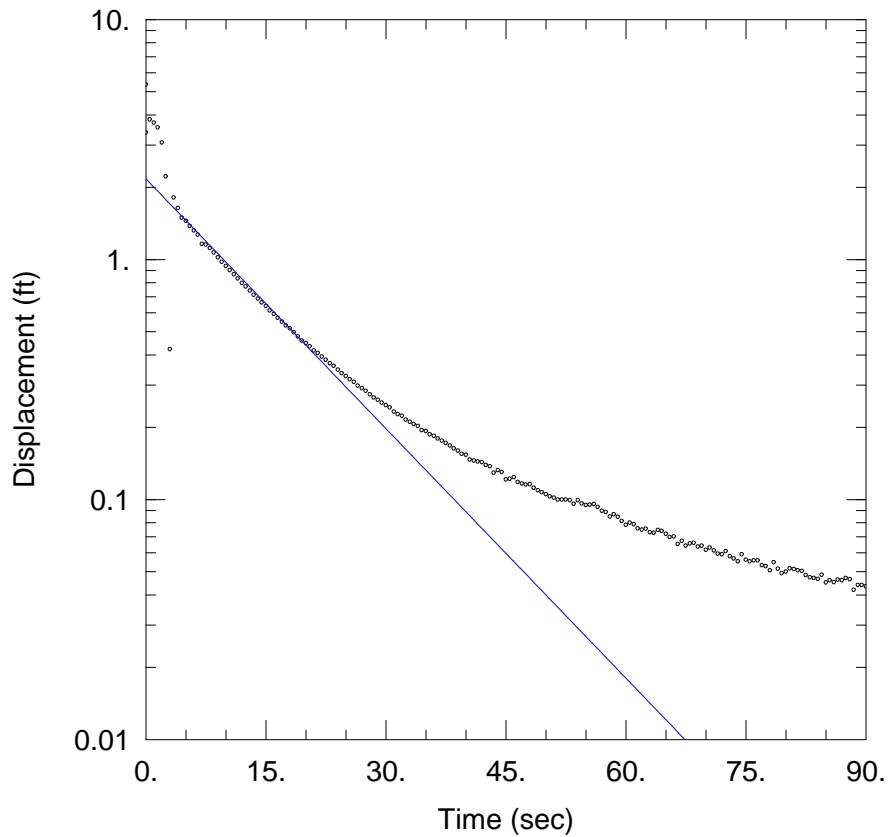
Total Well Penetration Depth: 7.2 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.41 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW09-25 FALLING HEAD TEST 5

Data Set: N:\...\709-MW09-25-FH5.aqt

Date: 05/08/13

Time: 09:39:24

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW09-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.005218$ cm/sec

$y_0 = 2.168$ ft

AQUIFER DATA

Saturated Thickness: 8.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (709-MW09-25)

Initial Displacement: 3.375 ft

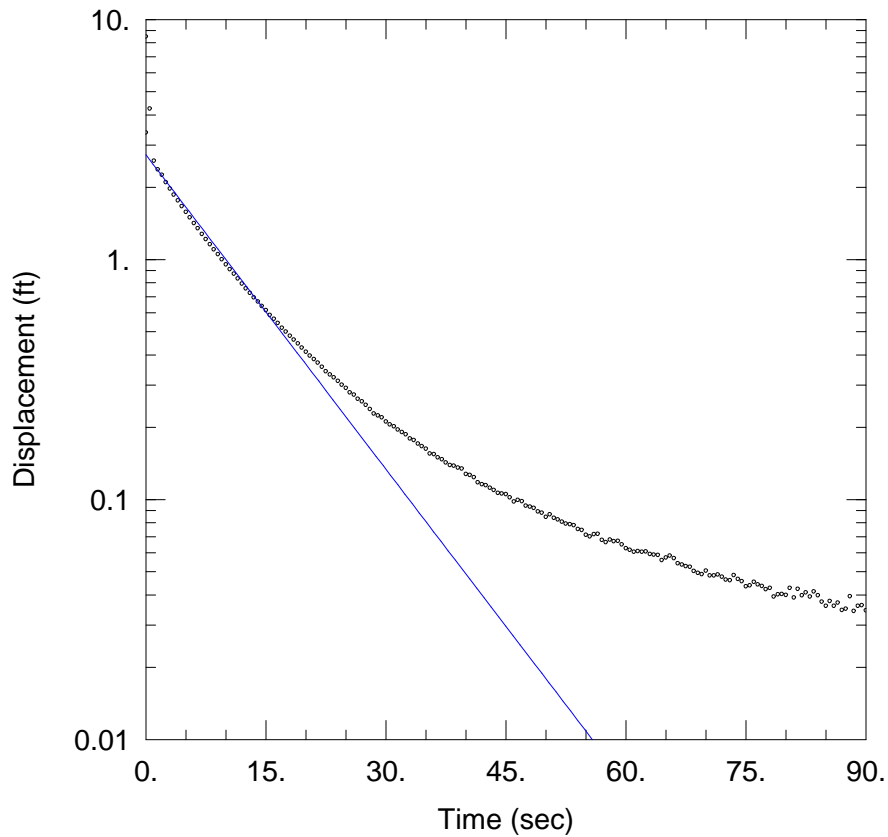
Total Well Penetration Depth: 7.2 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.41 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW09-25 RISING HEAD TEST 1

Data Set: N:\...\709-MW09-25-RH1.aqt

Date: 05/08/13

Time: 09:44:08

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW09-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.006569 cm/sec

y0 = 2.73 ft

AQUIFER DATA

Saturated Thickness: 8.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW09-25)

Initial Displacement: 3.375 ft

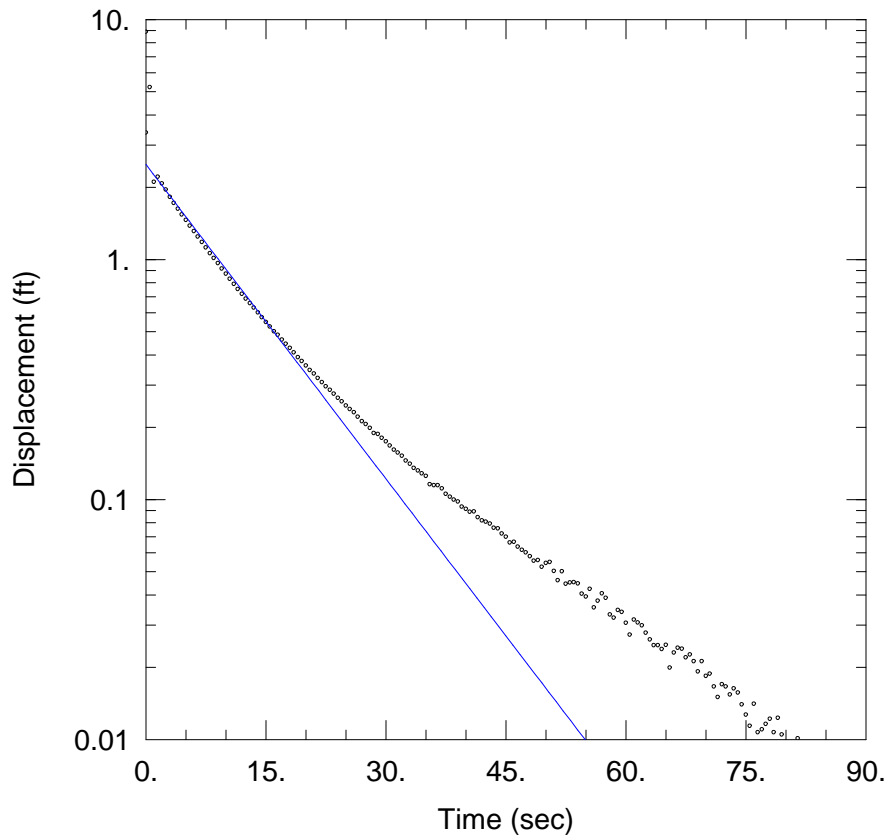
Total Well Penetration Depth: 7.2 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.41 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW09-25 RISING HEAD TEST 2

Data Set: N:\...\709-MW09-25-RH2.aqt

Date: 05/08/13

Time: 09:43:52

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW09-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.006569 cm/sec

y0 = 2.49 ft

AQUIFER DATA

Saturated Thickness: 8.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW09-25)

Initial Displacement: 3.375 ft

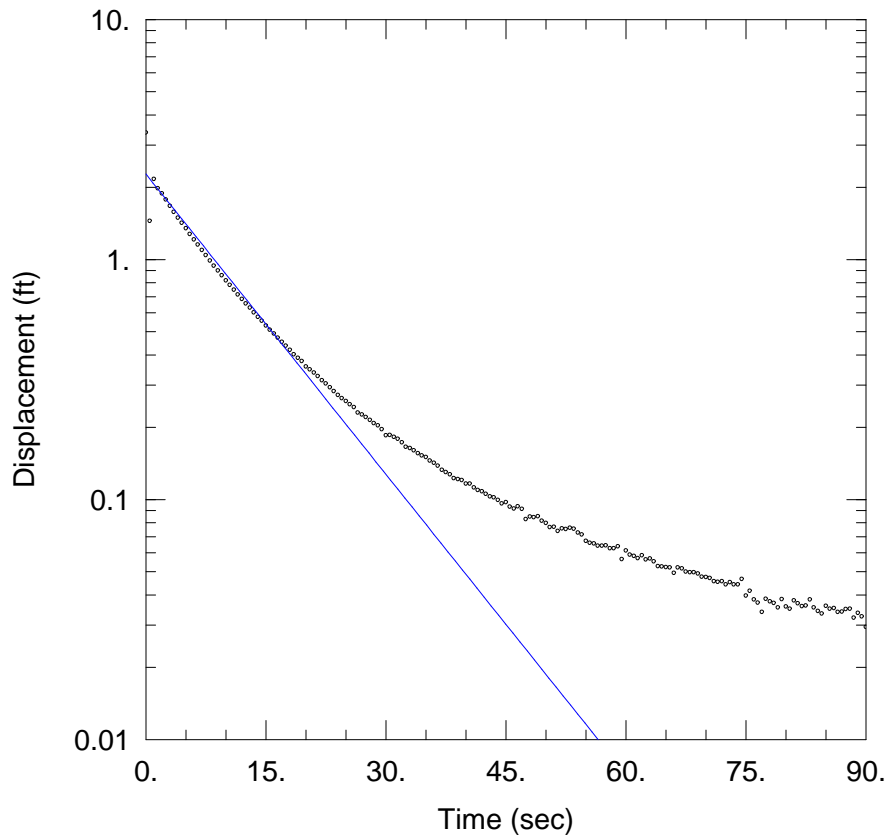
Total Well Penetration Depth: 7.2 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.41 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW09-25 RISING HEAD TEST 3

Data Set: N:\...\709-MW09-25-RH3.aqt

Date: 05/08/13

Time: 09:43:37

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW09-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.006274 cm/sec

y0 = 2.271 ft

AQUIFER DATA

Saturated Thickness: 8.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW09-25)

Initial Displacement: 3.375 ft

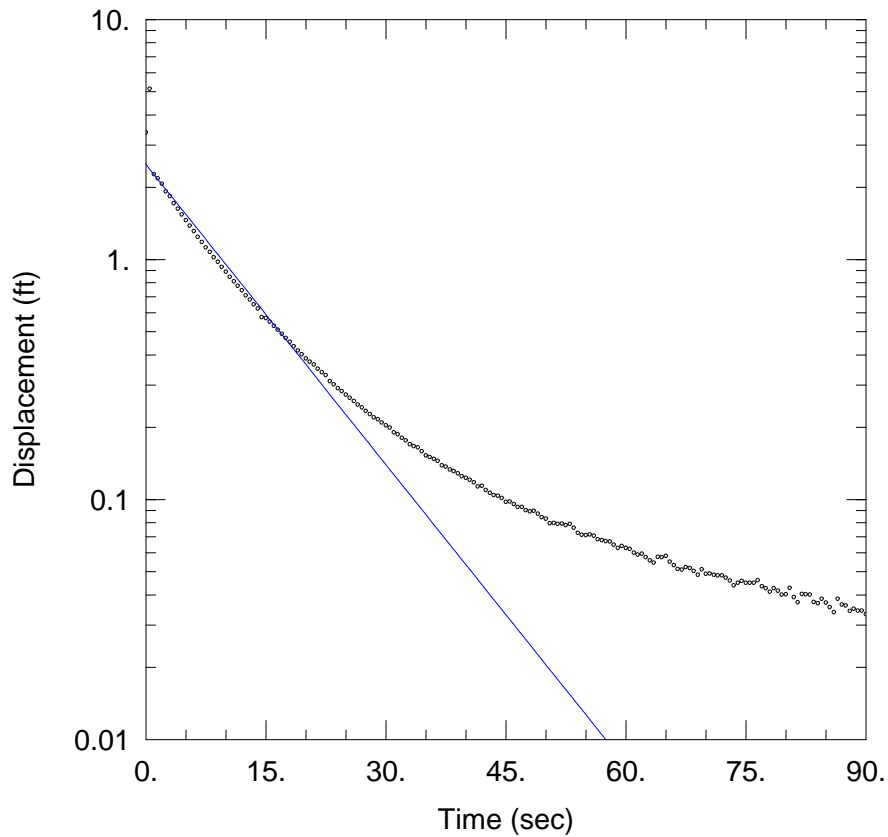
Total Well Penetration Depth: 7.2 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.41 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW09-25 RISING HEAD TEST 4

Data Set: N:\...\709-MW09-25-RH4.aqt

Date: 05/08/13

Time: 09:43:22

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW09-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.006274 cm/sec

y0 = 2.49 ft

AQUIFER DATA

Saturated Thickness: 8.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW09-25)

Initial Displacement: 3.375 ft

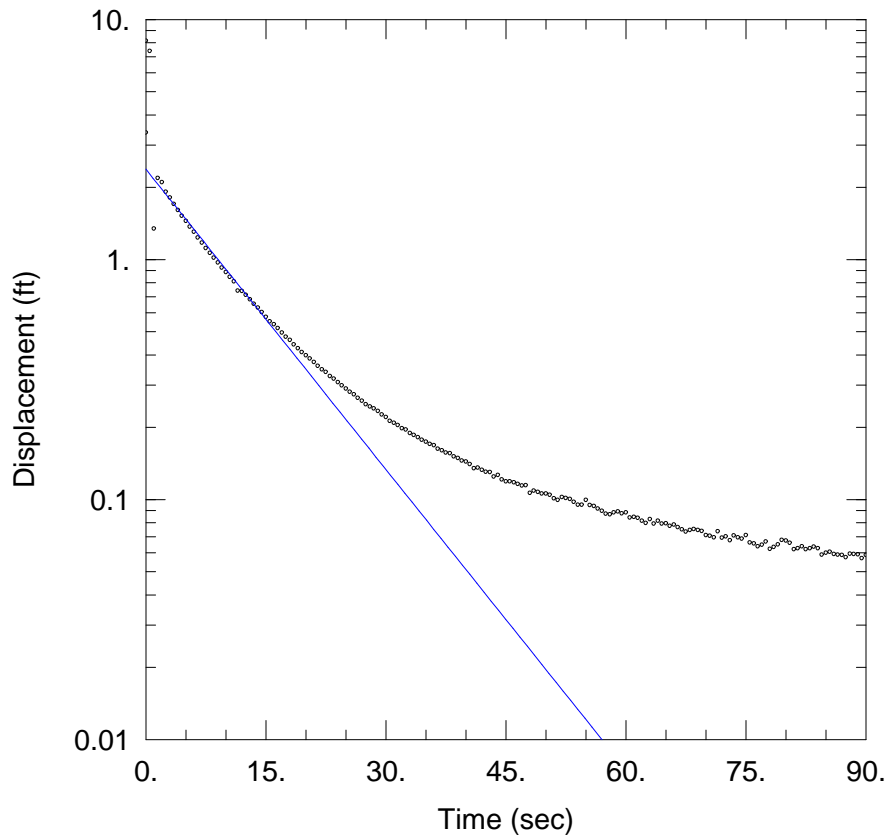
Total Well Penetration Depth: 7.2 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.41 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW09-25 RISING HEAD TEST 5

Data Set: N:\...\709-MW09-25-RH5.aqt

Date: 05/08/13

Time: 09:43:09

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW09-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.006274$ cm/sec

$y_0 = 2.378$ ft

AQUIFER DATA

Saturated Thickness: 8.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (709-MW09-25)

Initial Displacement: 3.375 ft

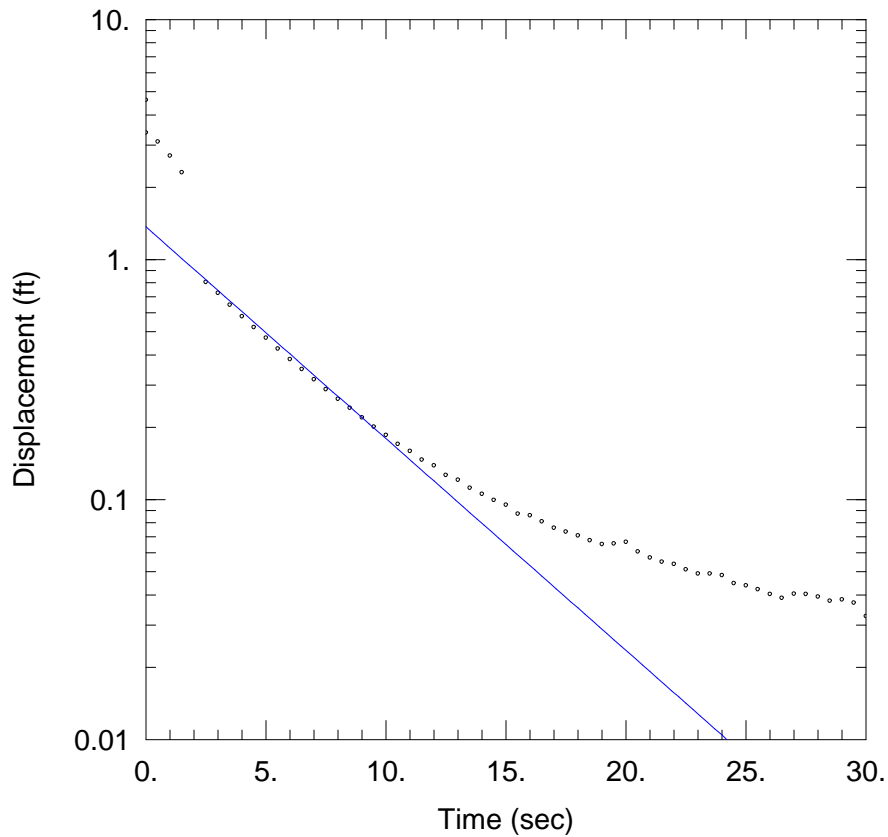
Total Well Penetration Depth: 7.2 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.41 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW11-25 FALLING HEAD TEST 1

Data Set: N:\...\709-MW11-25-FH1.aqt

Date: 05/08/13

Time: 10:43:08

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW11-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01311 cm/sec

y0 = 1.368 ft

AQUIFER DATA

Saturated Thickness: 9.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW11-25)

Initial Displacement: 3.375 ft

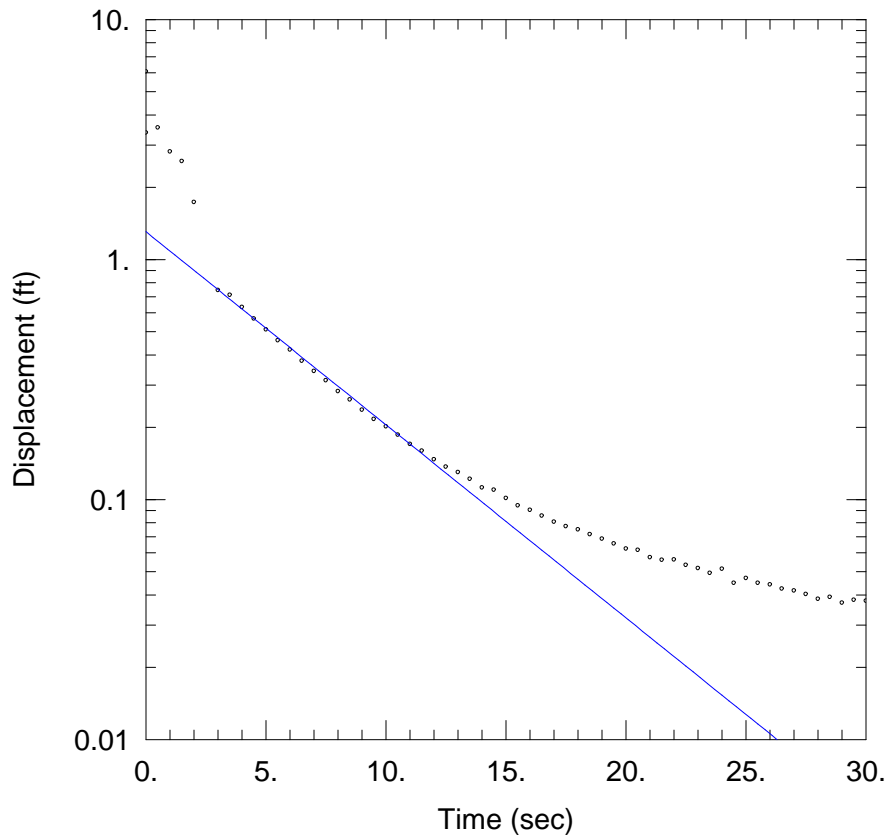
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 16.95 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW11-25 FALLING HEAD TEST 2

Data Set: N:\...\709-MW11-25-FH2.aqt

Date: 05/08/13

Time: 10:42:56

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW11-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01195 cm/sec

y0 = 1.307 ft

AQUIFER DATA

Saturated Thickness: 9.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW11-25)

Initial Displacement: 3.375 ft

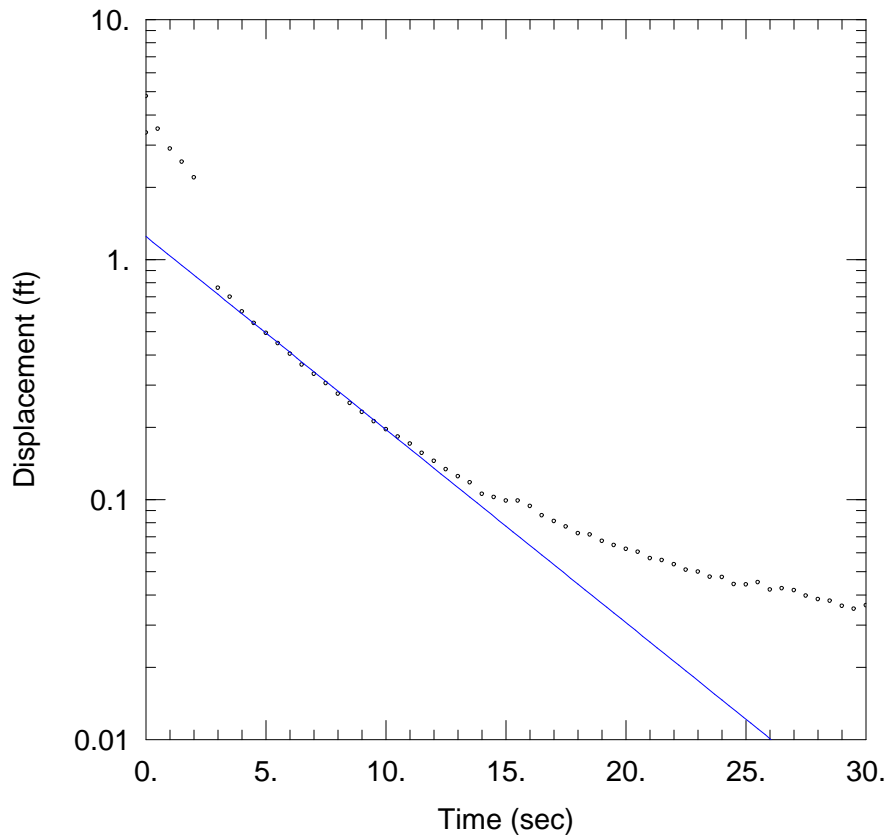
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 16.95 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW11-25 FALLING HEAD TEST 3

Data Set: N:\...\709-MW11-25-FH3.aqt

Date: 05/08/13

Time: 10:42:42

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW11-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01195 cm/sec

y0 = 1.248 ft

AQUIFER DATA

Saturated Thickness: 9.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW11-25)

Initial Displacement: 3.375 ft

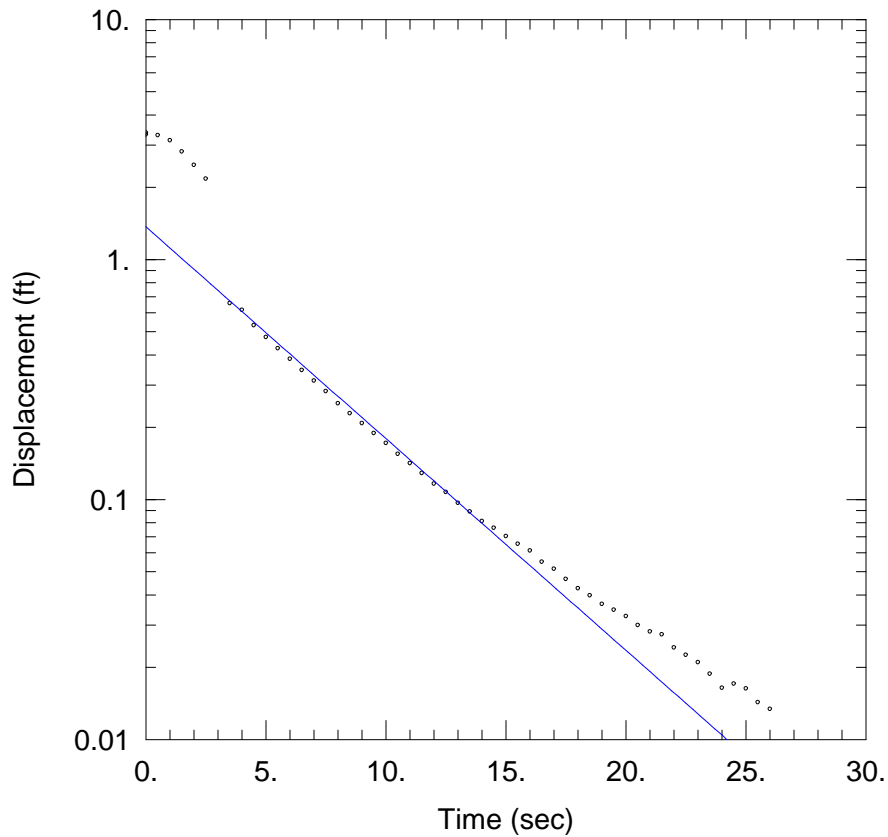
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 16.95 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW11-25 FALLING HEAD TEST 4

Data Set: N:\...\709-MW11-25-FH4.aqt

Date: 05/08/13

Time: 10:42:29

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW11-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01311 cm/sec

y0 = 1.368 ft

AQUIFER DATA

Saturated Thickness: 9.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW11-25)

Initial Displacement: 3.375 ft

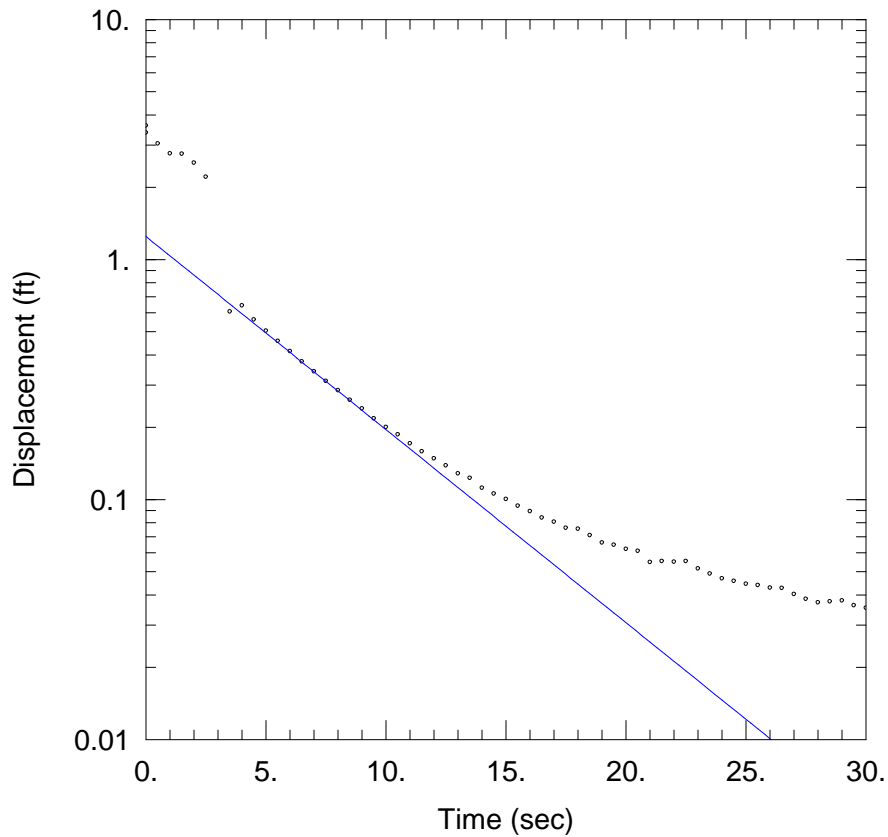
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 16.95 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW11-25 FALLING HEAD TEST 5

Data Set: N:\...\709-MW11-25-FH5.aqt

Date: 05/08/13

Time: 10:42:17

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW11-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01195 cm/sec

y0 = 1.248 ft

AQUIFER DATA

Saturated Thickness: 9.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW11-25)

Initial Displacement: 3.375 ft

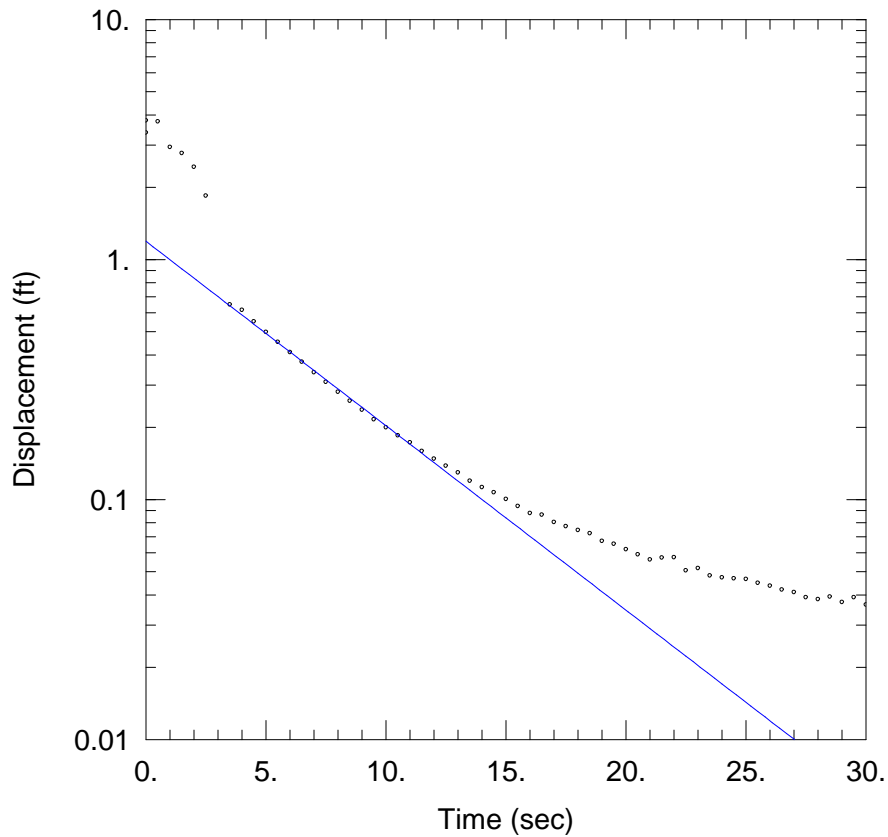
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 16.95 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW11-25 FALLING HEAD TEST 6

Data Set: N:\...\709-MW11-25-FH6.aqt

Date: 05/08/13

Time: 10:42:05

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW11-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01142 cm/sec

y0 = 1.192 ft

AQUIFER DATA

Saturated Thickness: 9.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW11-25)

Initial Displacement: 3.375 ft

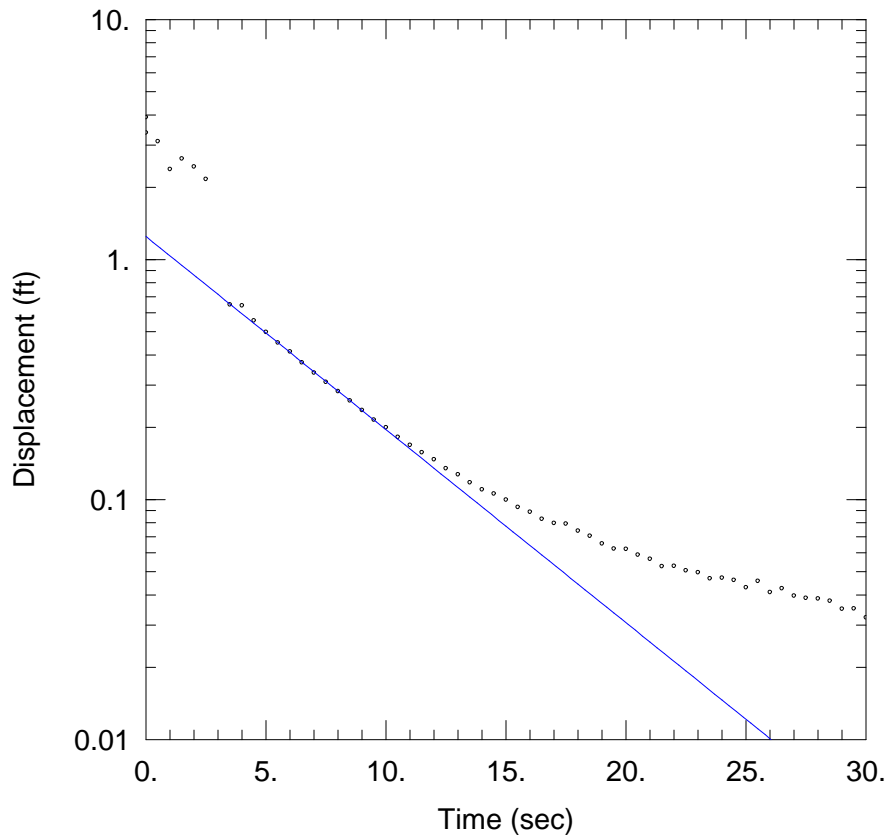
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 16.95 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW11-25 FALLING HEAD TEST 7

Data Set: N:\...\709-MW11-25-FH7.aqt

Date: 05/08/13

Time: 10:41:53

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW11-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01195 cm/sec

y0 = 1.248 ft

AQUIFER DATA

Saturated Thickness: 9.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW11-25)

Initial Displacement: 3.375 ft

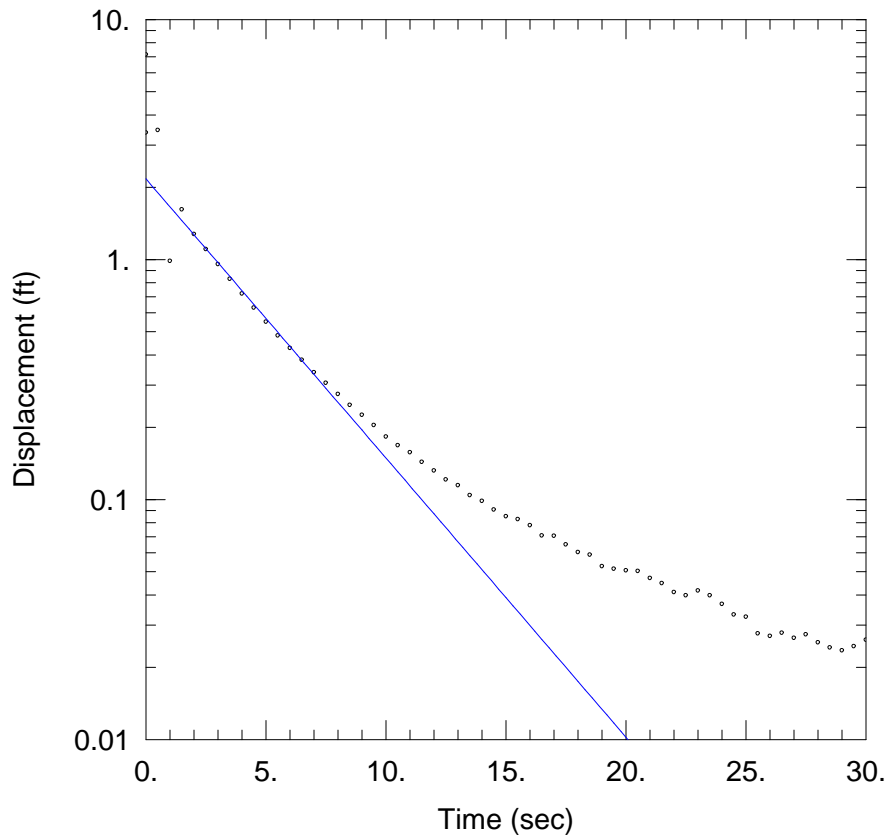
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 16.95 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW11-25 RISING HEAD TEST 1

Data Set: N:\...\709-MW11-25-RH1.aqt

Date: 05/08/13

Time: 10:46:34

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW11-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01728 cm/sec

y0 = 2.168 ft

AQUIFER DATA

Saturated Thickness: 9.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW11-25)

Initial Displacement: 3.375 ft

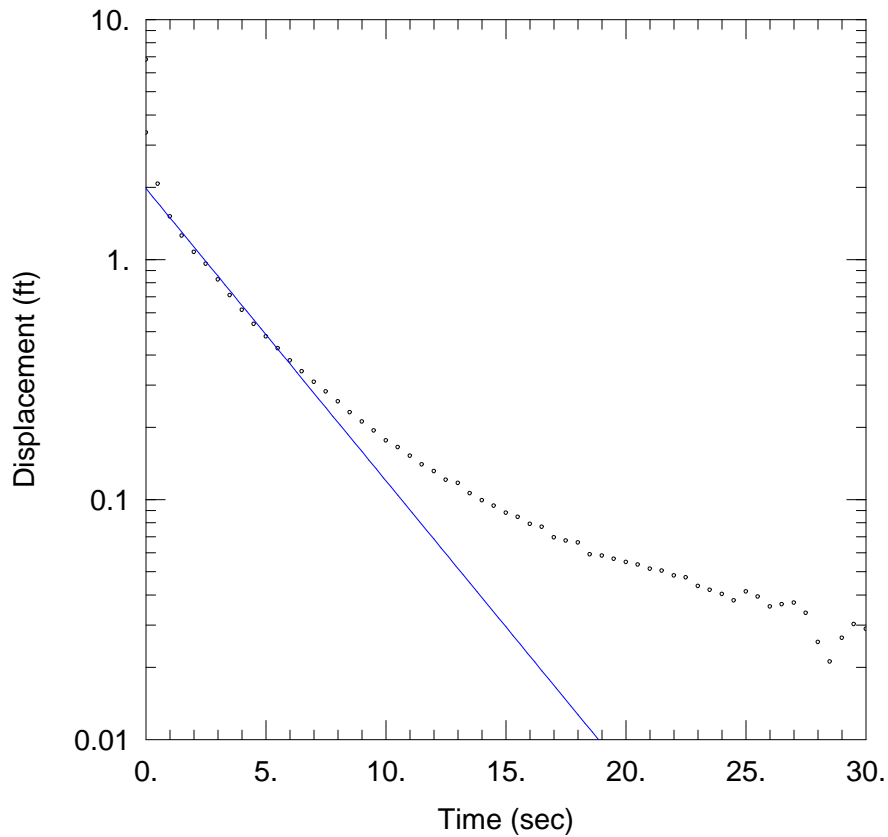
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 16.95 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW11-25 RISING HEAD TEST 2

Data Set: N:\...\709-MW11-25-RH2.aqt

Date: 05/08/13

Time: 10:46:21

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW11-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01809 cm/sec

y0 = 1.978 ft

AQUIFER DATA

Saturated Thickness: 9.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW11-25)

Initial Displacement: 3.375 ft

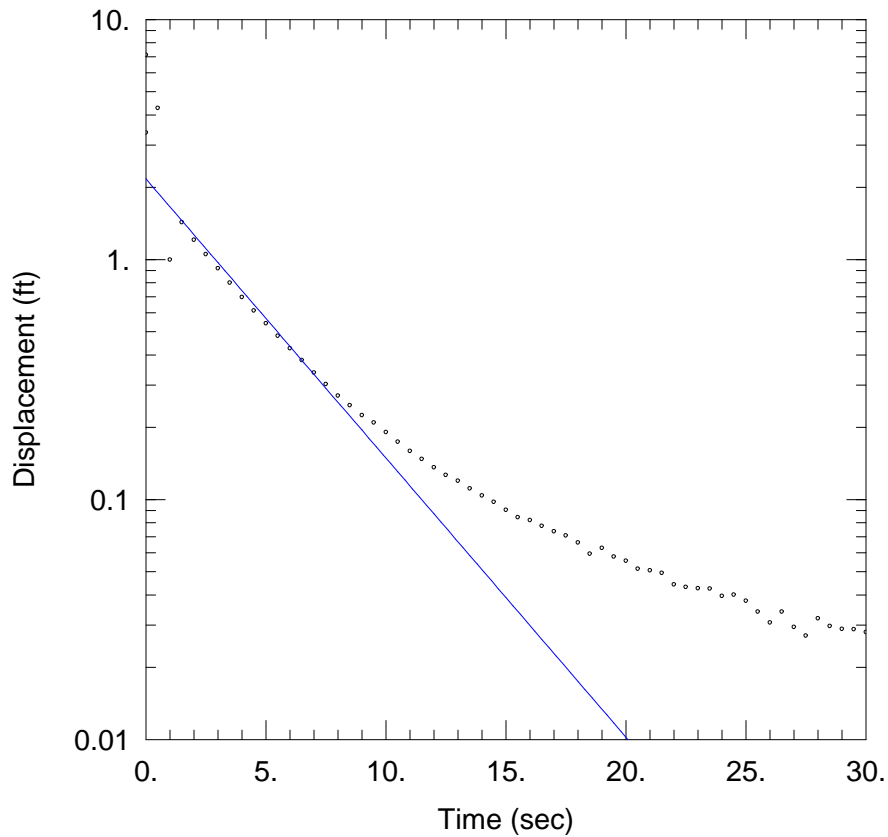
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 16.95 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW11-25 RISING HEAD TEST 3

Data Set: N:\...\709-MW11-25-RH3.aqt

Date: 05/08/13

Time: 10:46:08

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW11-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01728 cm/sec

y0 = 2.168 ft

AQUIFER DATA

Saturated Thickness: 9.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW11-25)

Initial Displacement: 3.375 ft

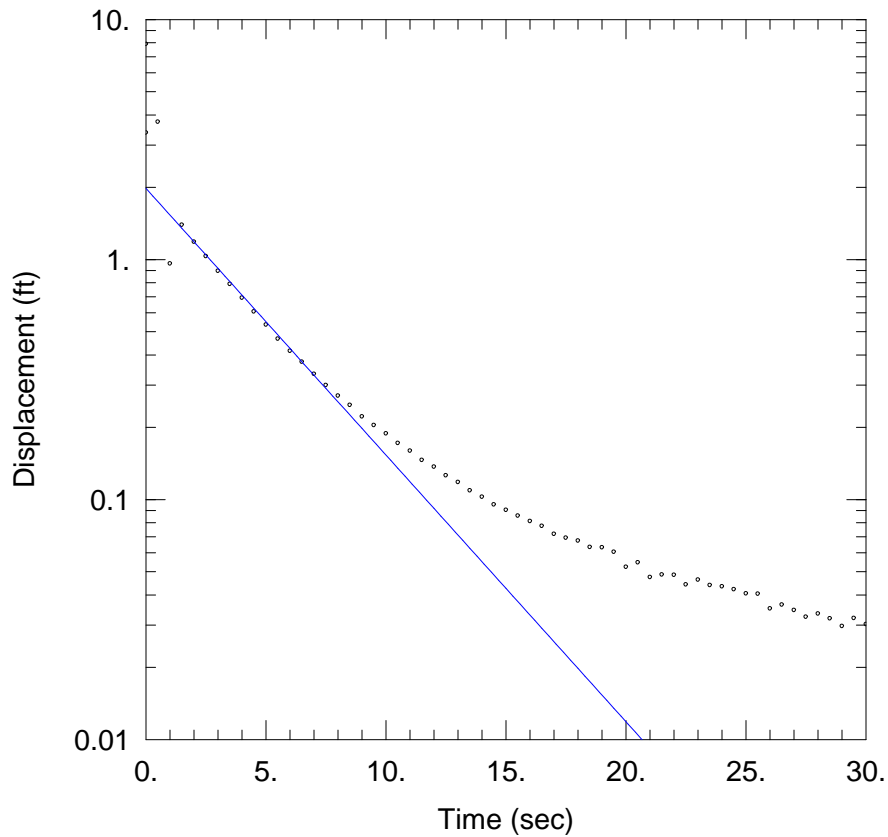
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 16.95 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW11-25 RISING HEAD TEST 4

Data Set: N:\...\709-MW11-25-RH4.aqt

Date: 05/08/13

Time: 10:45:55

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW11-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0165 cm/sec

y0 = 1.978 ft

AQUIFER DATA

Saturated Thickness: 9.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW11-25)

Initial Displacement: 3.375 ft

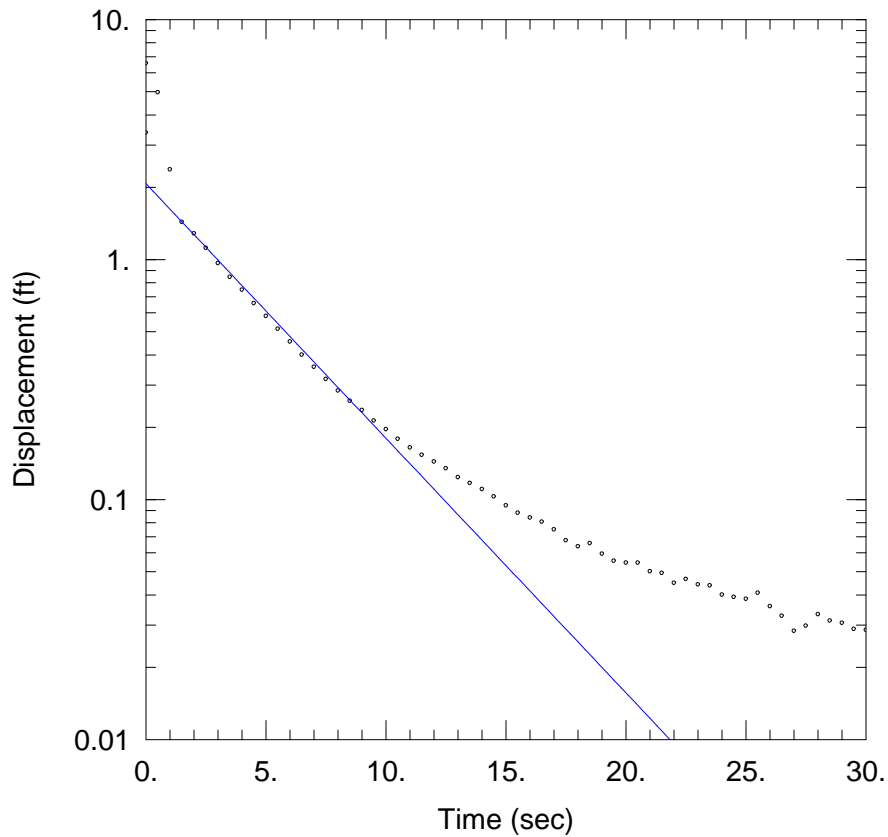
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 16.95 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW11-25 RISING HEAD TEST 5

Data Set: N:\...\709-MW11-25-RH5.aqt

Date: 05/08/13

Time: 10:45:42

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW11-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01576 cm/sec

y0 = 2.071 ft

AQUIFER DATA

Saturated Thickness: 9.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW11-25)

Initial Displacement: 3.375 ft

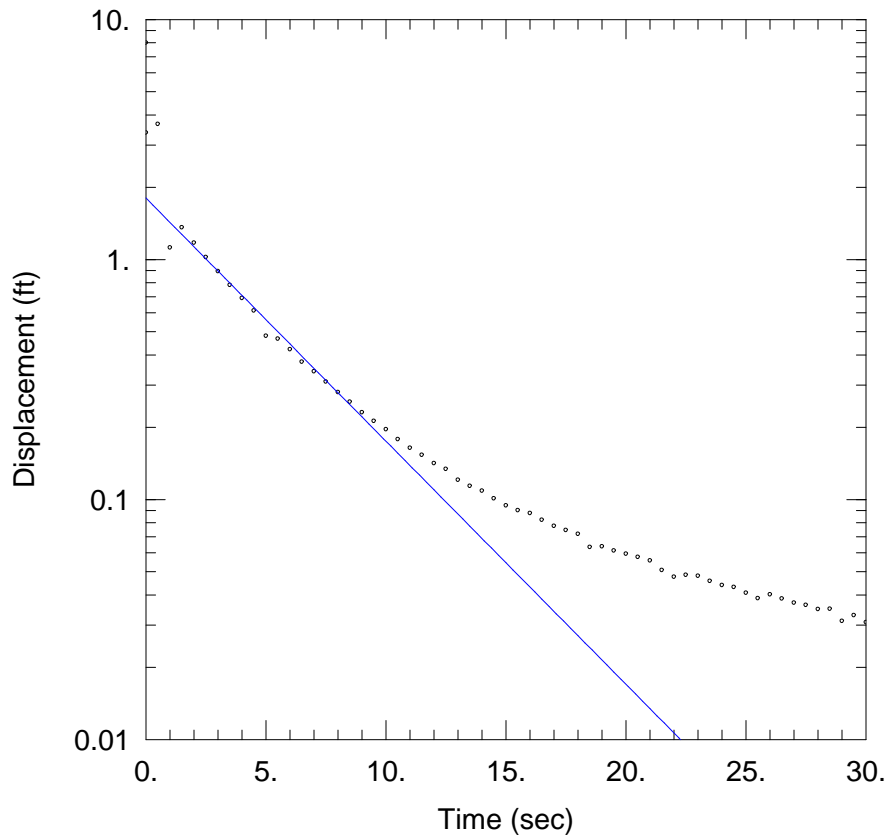
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 16.95 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW11-25 RISING HEAD TEST 6

Data Set: N:\...\709-MW11-25-RH6.aqt

Date: 05/08/13

Time: 10:45:29

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW11-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01505 cm/sec

y0 = 1.804 ft

AQUIFER DATA

Saturated Thickness: 9.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW11-25)

Initial Displacement: 3.375 ft

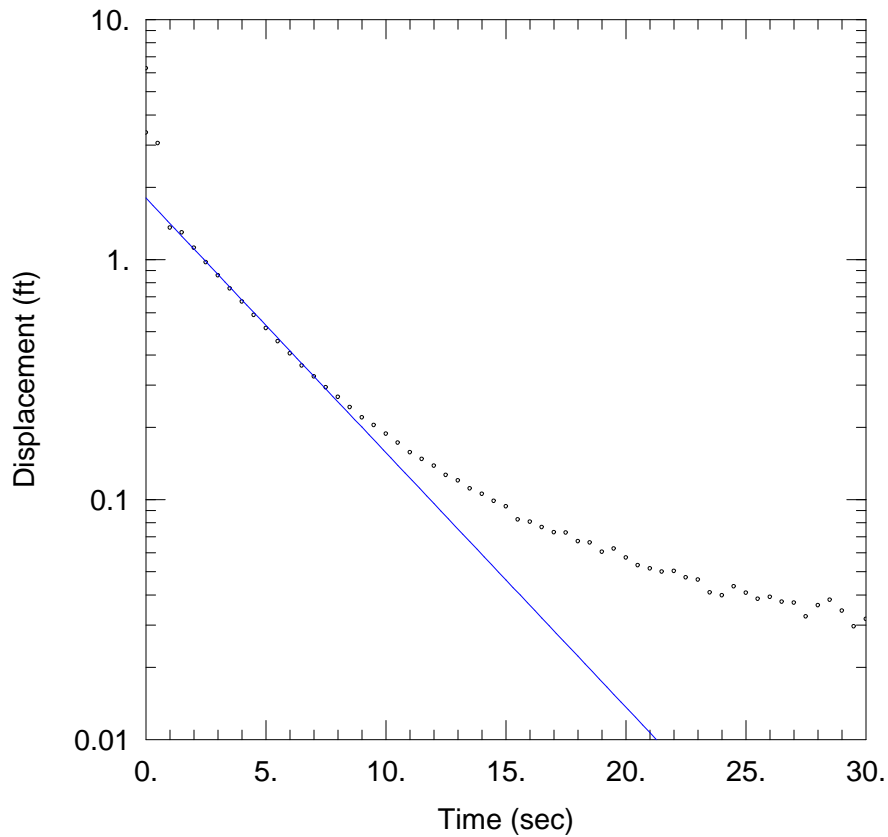
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 16.95 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW11-25 RISING HEAD TEST 7

Data Set: N:\...\709-MW11-25-RH7.aqt

Date: 05/08/13

Time: 10:45:16

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW11-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01576 cm/sec

y0 = 1.804 ft

AQUIFER DATA

Saturated Thickness: 9.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW11-25)

Initial Displacement: 3.375 ft

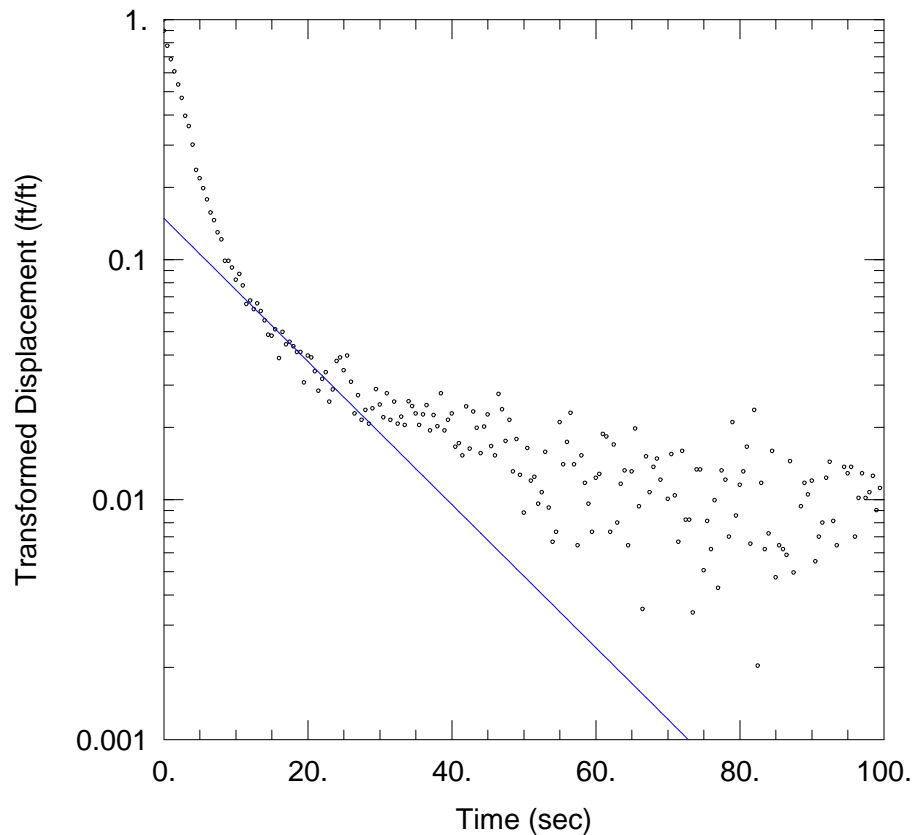
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 16.95 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW15-15 RISING HEAD TEST 1

Data Set: N:\...\709-MW15-15-RH1.aqt

Date: 05/13/13

Time: 13:41:15

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW15-15

Test Date: February 8, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.01895 cm/sec

y0 = 0.1307 ft

AQUIFER DATA

Saturated Thickness: 8.62 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW15-15)

Initial Displacement: 0.8438 ft

Total Well Penetration Depth: 8.62 ft

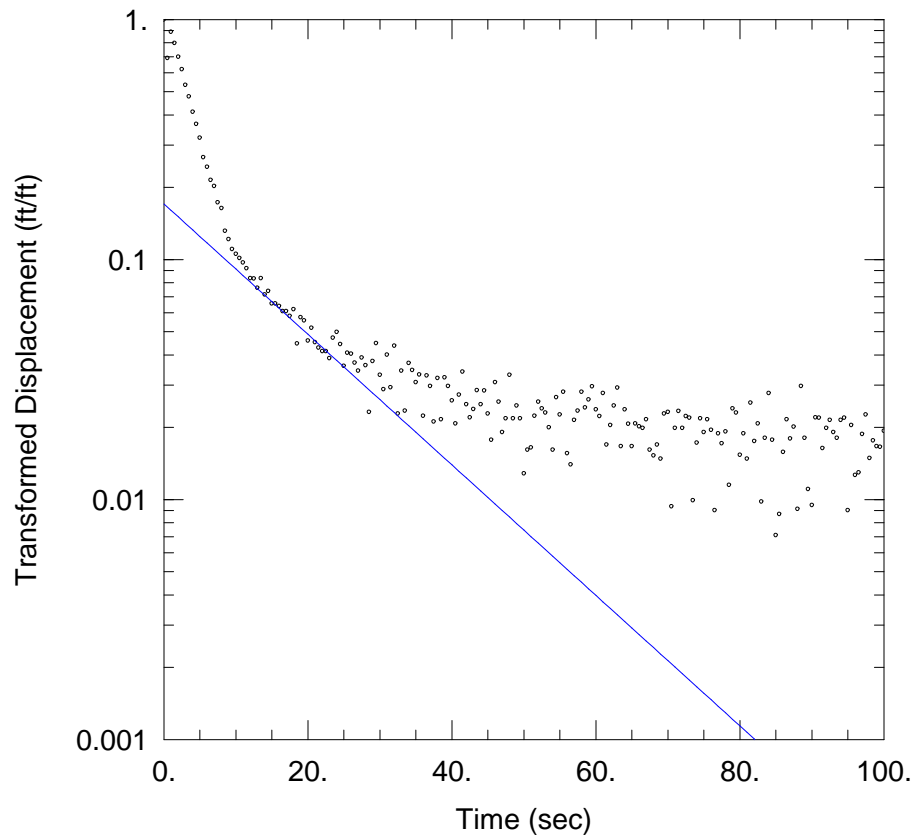
Casing Radius: 0.167 ft

Static Water Column Height: 8.62 ft

Screen Length: 8.62 ft

Well Radius: 0.3438 ft

Gravel Pack Porosity: 0.3



709-MW15-15 RISING HEAD TEST 2

Data Set: N:\...\709-MW15-15-RH2.aqt

Date: 05/13/13

Time: 13:40:52

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW15-15

Test Date: February 8, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.01728 cm/sec

y0 = 0.15 ft

AQUIFER DATA

Saturated Thickness: 8.62 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW15-15)

Initial Displacement: 0.8438 ft

Total Well Penetration Depth: 8.62 ft

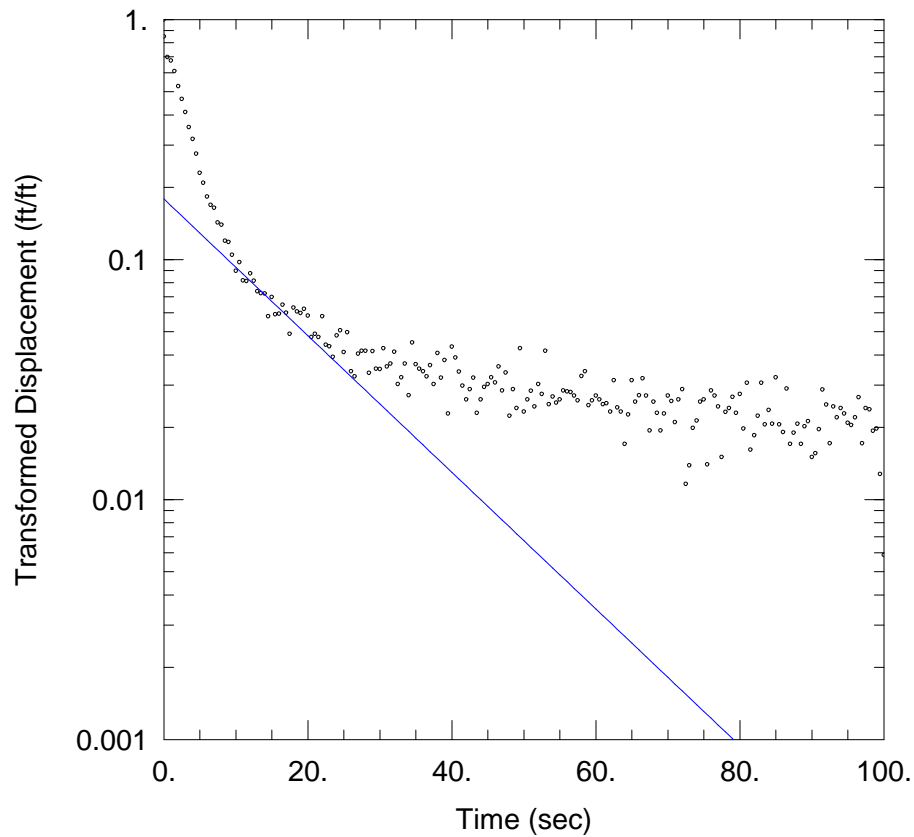
Casing Radius: 0.167 ft

Static Water Column Height: 8.62 ft

Screen Length: 8.62 ft

Well Radius: 0.3438 ft

Gravel Pack Porosity: 0.3



709-MW15-15 RISING HEAD TEST 3

Data Set: N:\...\709-MW15-15-RH3.aqt

Date: 05/13/13

Time: 13:41:03

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW15-15

Test Date: February 8, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.01809 cm/sec

y0 = 0.1571 ft

AQUIFER DATA

Saturated Thickness: 8.62 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW15-15)

Initial Displacement: 0.8438 ft

Total Well Penetration Depth: 8.62 ft

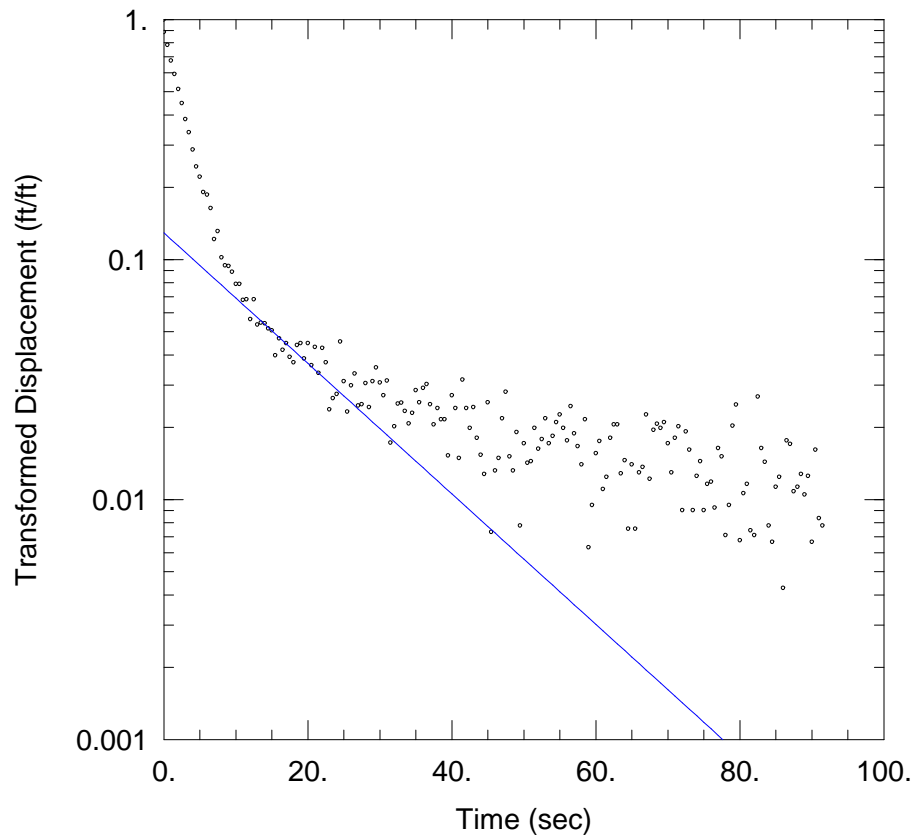
Casing Radius: 0.167 ft

Static Water Column Height: 8.62 ft

Screen Length: 8.62 ft

Well Radius: 0.3438 ft

Gravel Pack Porosity: 0.3



709-MW15-15 RISING HEAD TEST 4

Data Set: N:\...\709-MW15-15-RH4.aqt

Date: 05/13/13

Time: 13:40:40

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW15-15

Test Date: February 8, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.01728 cm/sec

y0 = 0.1138 ft

AQUIFER DATA

Saturated Thickness: 8.62 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW15-15)

Initial Displacement: 0.8438 ft

Total Well Penetration Depth: 8.62 ft

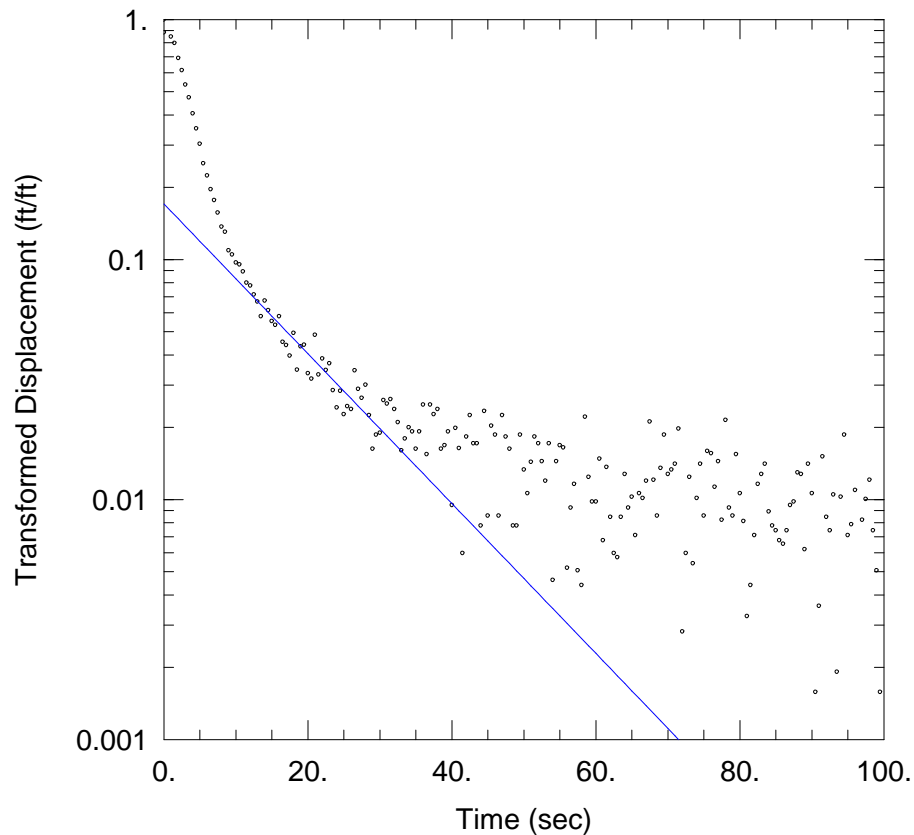
Casing Radius: 0.167 ft

Static Water Column Height: 8.62 ft

Screen Length: 8.62 ft

Well Radius: 0.3438 ft

Gravel Pack Porosity: 0.3



709-MW15-15 RISING HEAD TEST 5

Data Set: N:\...\709-MW15-15-RH5.aqt

Date: 05/13/13

Time: 13:40:26

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW15-15

Test Date: February 8, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.01984 cm/sec

y0 = 0.15 ft

AQUIFER DATA

Saturated Thickness: 8.62 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW15-15)

Initial Displacement: 0.8438 ft

Total Well Penetration Depth: 8.62 ft

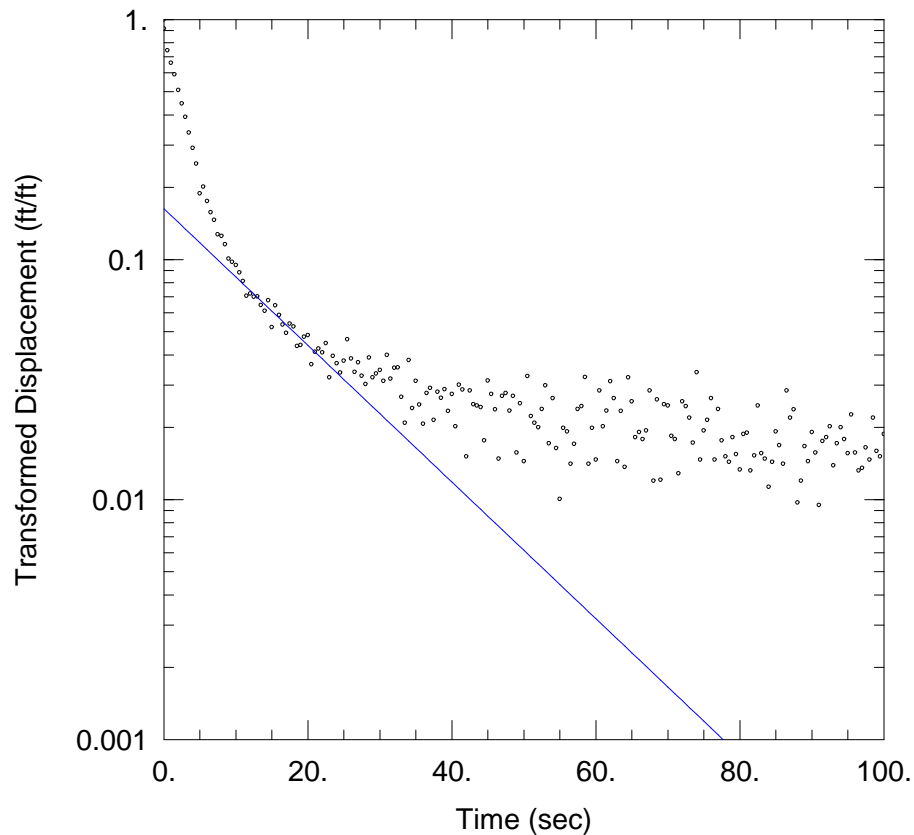
Casing Radius: 0.167 ft

Static Water Column Height: 8.62 ft

Screen Length: 8.62 ft

Well Radius: 0.3438 ft

Gravel Pack Porosity: 0.3



709-MW15-15 RISING HEAD TEST 6

Data Set: N:\...\709-MW15-15-RH6.aqt

Date: 05/13/13

Time: 13:40:02

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW15-15

Test Date: February 8, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.01809 cm/sec

y0 = 0.1433 ft

AQUIFER DATA

Saturated Thickness: 8.62 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW15-15)

Initial Displacement: 0.8438 ft

Total Well Penetration Depth: 8.62 ft

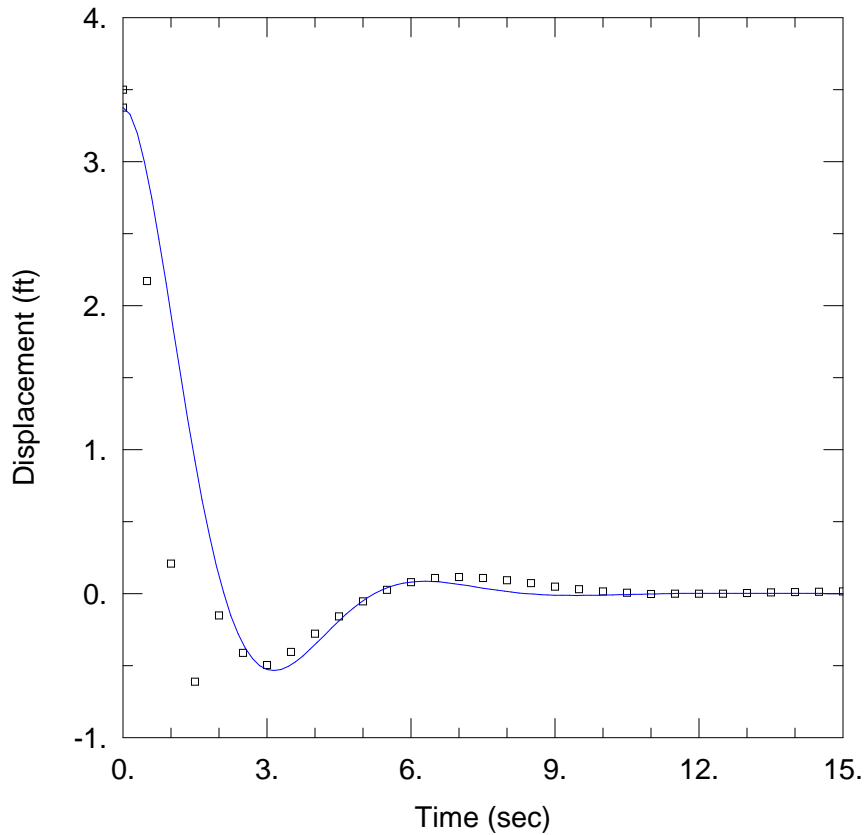
Casing Radius: 0.167 ft

Static Water Column Height: 8.62 ft

Screen Length: 8.62 ft

Well Radius: 0.3438 ft

Gravel Pack Porosity: 0.3



709-MW15A-50 FALLING HEAD TEST 1

Data Set: N:\...\709-MW15A-50-FH1.aqt

Date: 05/13/13

Time: 14:38:56

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15A-50

Test Date: January 22, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Butler

K = 0.1252 cm/sec

Le = 23.99 ft

AQUIFER DATA

Saturated Thickness: 9.55 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW15A-50)

Initial Displacement: 3.375 ft

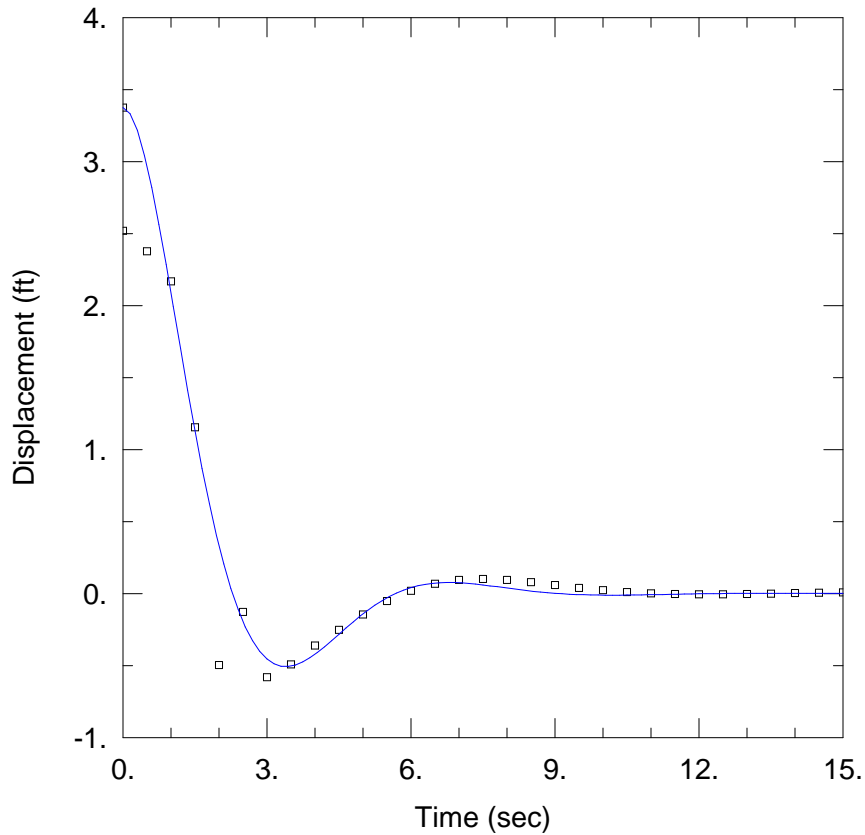
Total Well Penetration Depth: 9.55 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 42.27 ft

Screen Length: 4.75 ft

Well Radius: 0.25 ft



709-MW15A-50 FALLING HEAD TEST 2

Data Set: N:\...\709-MW15A-50-FH2.aqt

Date: 05/13/13

Time: 14:38:42

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15A-50

Test Date: January 22, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Butler

K = 0.1142 cm/sec

Le = 27.54 ft

AQUIFER DATA

Saturated Thickness: 9.55 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW15A-50)

Initial Displacement: 3.375 ft

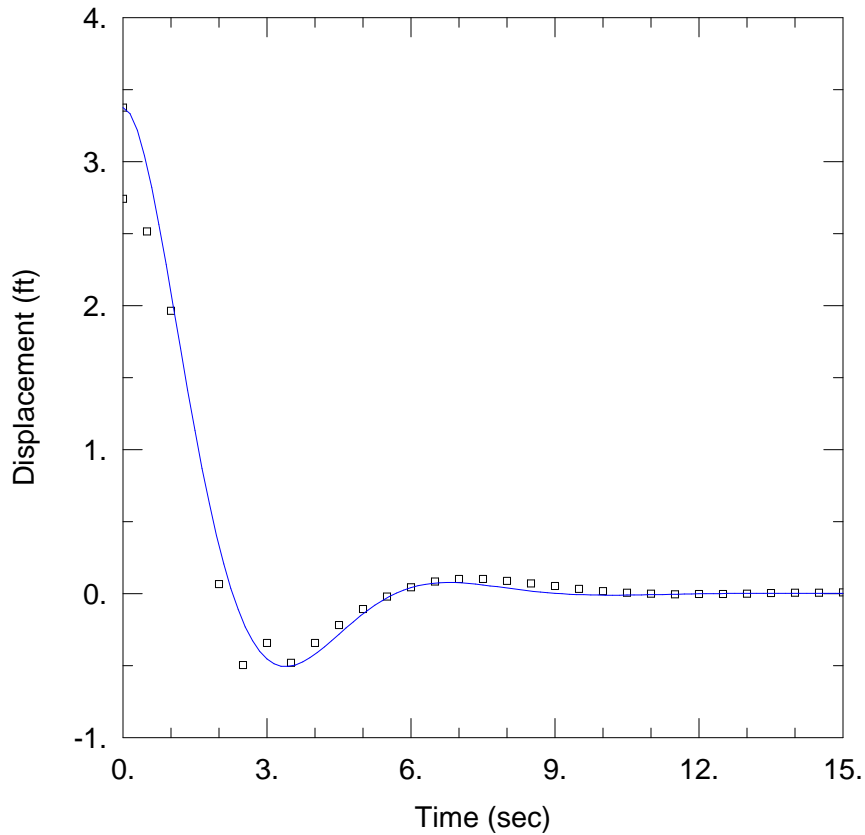
Total Well Penetration Depth: 9.55 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 42.27 ft

Screen Length: 4.75 ft

Well Radius: 0.25 ft



709-MW15A-50 FALLING HEAD TEST 3

Data Set: N:\...\709-MW15A-50-FH3.aqt

Date: 05/13/13

Time: 14:38:31

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15A-50

Test Date: January 22, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Butler

K = 0.1142 cm/sec

Le = 27.54 ft

AQUIFER DATA

Saturated Thickness: 9.55 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW15A-50)

Initial Displacement: 3.375 ft

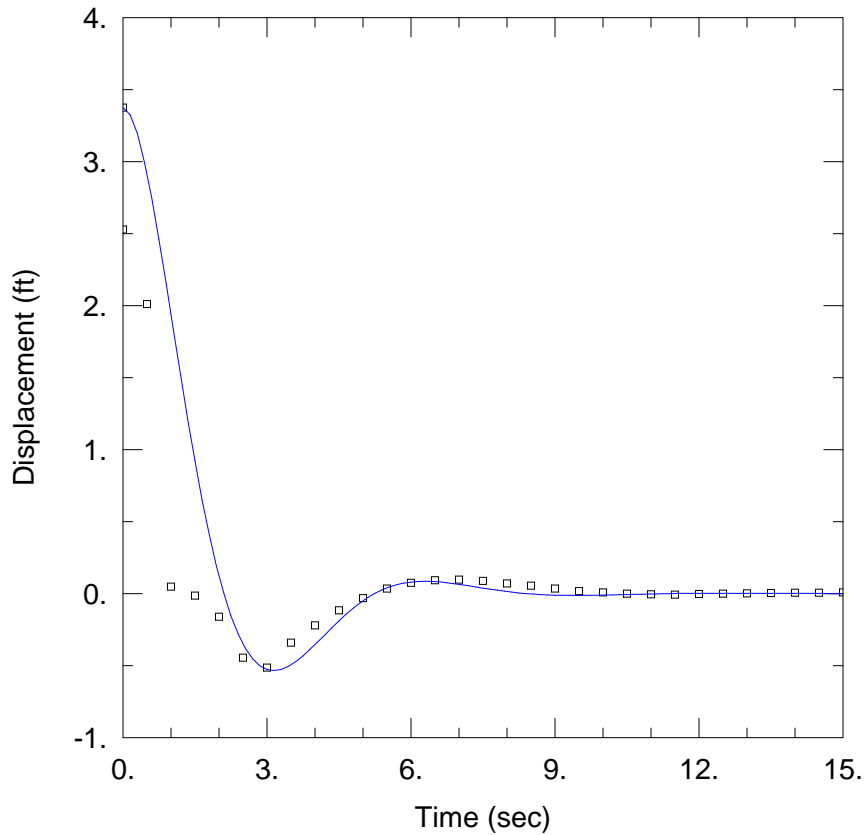
Total Well Penetration Depth: 9.55 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 42.27 ft

Screen Length: 4.75 ft

Well Radius: 0.25 ft



709-MW15A-50 FALLING HEAD TEST 4

Data Set: N:\...\709-MW15A-50-FH4.aqt
 Date: 05/13/13 Time: 14:38:18

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 721-MW15A-50
 Test Date: January 22, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Butler
 K = 0.1252 cm/sec
 Le = 23.99 ft

AQUIFER DATA

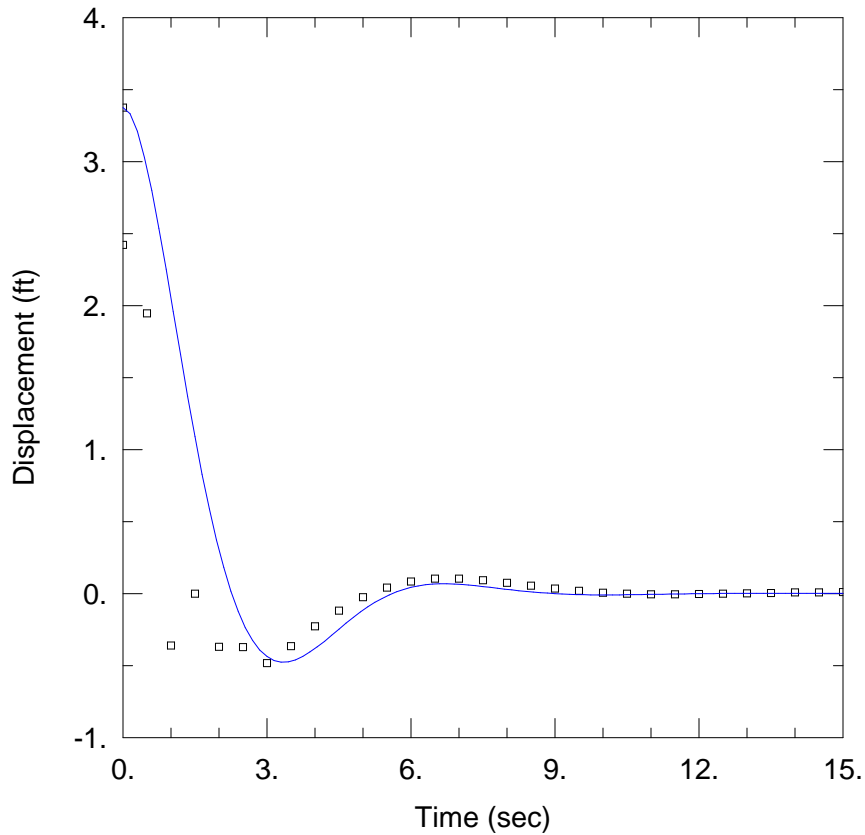
Saturated Thickness: 9.55 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW15A-50)

Initial Displacement: 3.374 ft
 Total Well Penetration Depth: 9.55 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 42.27 ft
 Screen Length: 4.75 ft
 Well Radius: 0.25 ft



709-MW15A-50 FALLING HEAD TEST 5

Data Set: N:\...\709-MW15A-50-FH5.aqt

Date: 05/13/13

Time: 14:38:06

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15A-50

Test Date: January 22, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Butler

K = 0.1142 cm/sec

Le = 26.3 ft

AQUIFER DATA

Saturated Thickness: 9.55 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW15A-50)

Initial Displacement: 3.375 ft

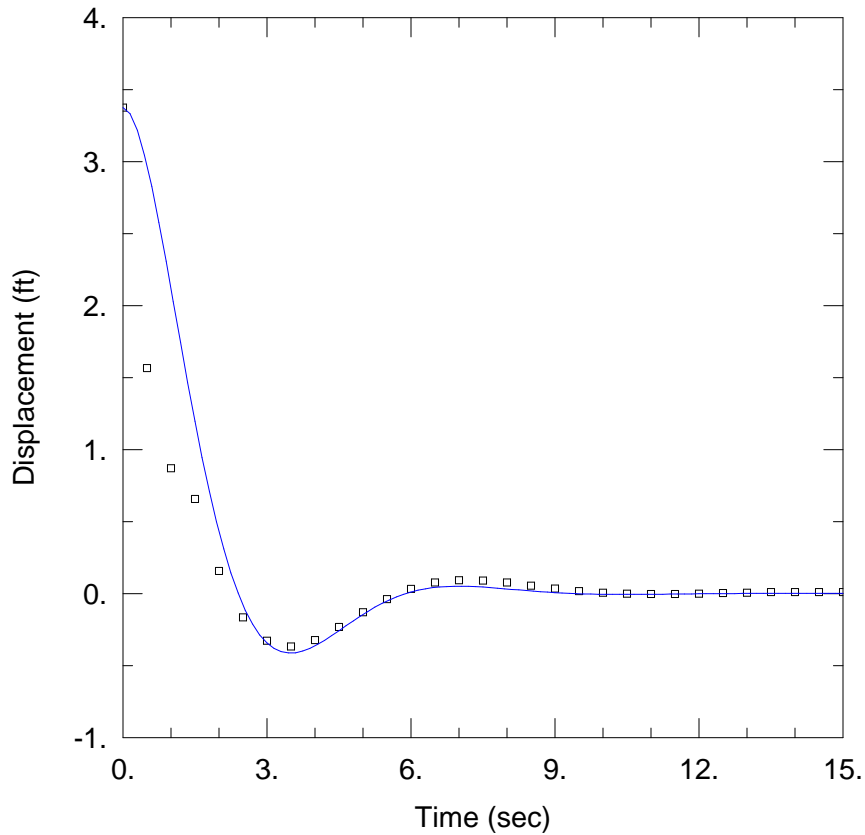
Total Well Penetration Depth: 9.55 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 42.27 ft

Screen Length: 4.75 ft

Well Radius: 0.25 ft



709-MW15A-50 RISING HEAD TEST 1

Data Set: N:\...\709-MW15A-50-RH1.aqt
 Date: 05/13/13 Time: 14:37:54

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 721-MW15A-50
 Test Date: January 22, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Butler
 K = 0.09068 cm/sec
 Le = 27.54 ft

AQUIFER DATA

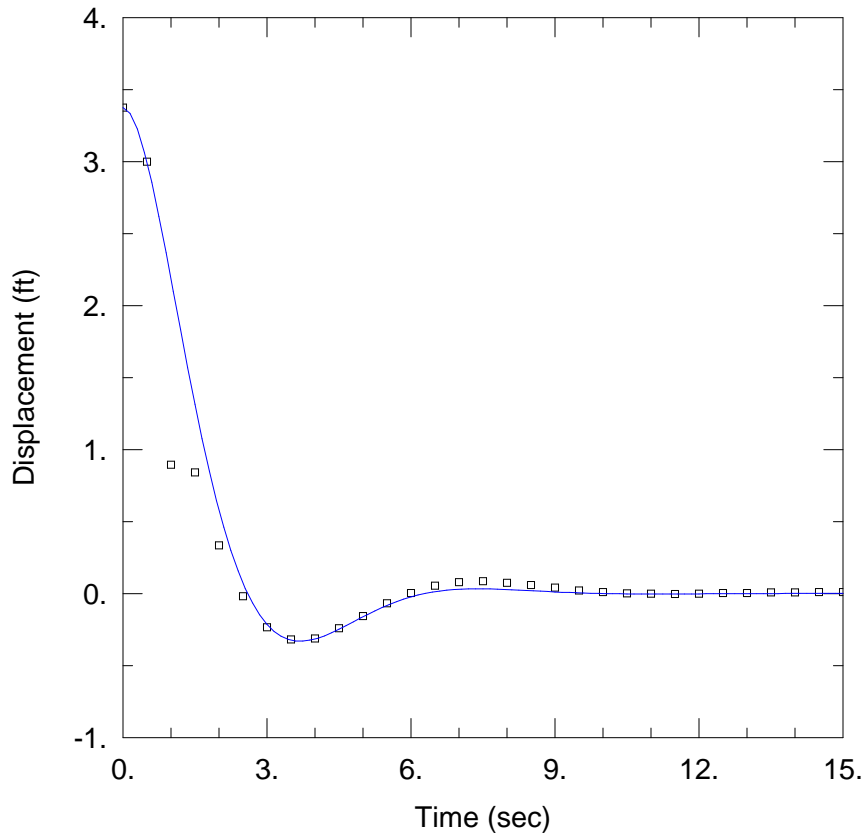
Saturated Thickness: 9.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW15A-50)

Initial Displacement: 3.374 ft
 Total Well Penetration Depth: 9.55 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 42.52 ft
 Screen Length: 4.75 ft
 Well Radius: 0.25 ft



709-MW15A-50 RISING HEAD TEST 2

Data Set: N:\...\709-MW15A-50-RH2.aqt

Date: 05/13/13

Time: 14:37:42

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15A-50

Test Date: January 22, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Butler

K = 0.0827 cm/sec

Le = 28.84 ft

AQUIFER DATA

Saturated Thickness: 9.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW15A-50)

Initial Displacement: 3.374 ft

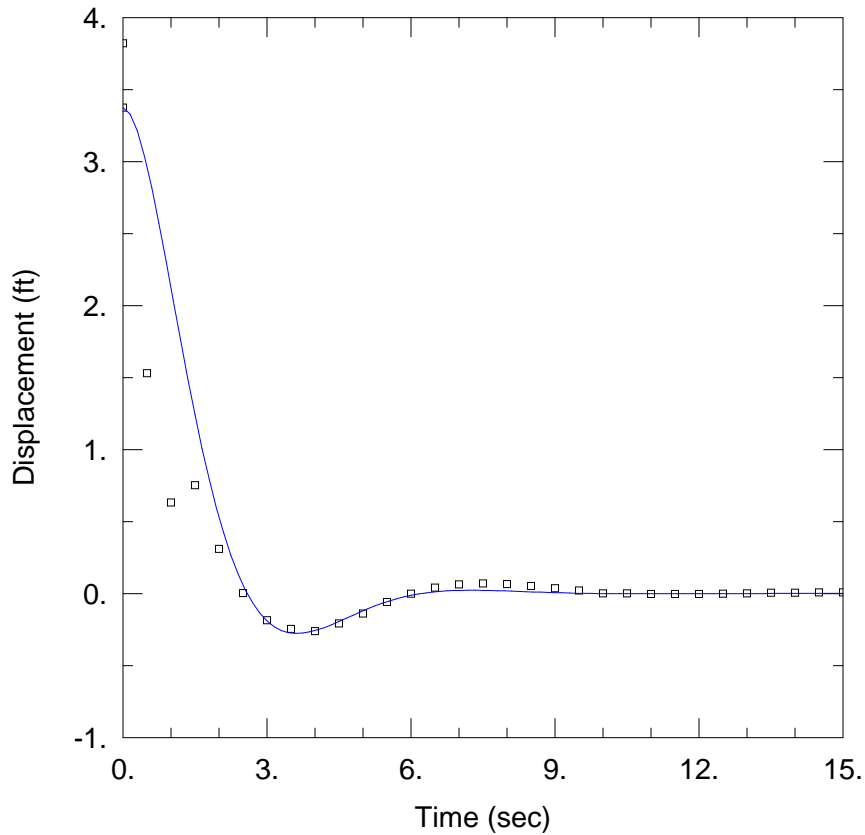
Total Well Penetration Depth: 9.55 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 42.52 ft

Screen Length: 4.75 ft

Well Radius: 0.25 ft



709-MW15A-50 RISING HEAD TEST 3

Data Set: N:\...\709-MW15A-50-RH3.aqt
 Date: 05/13/13 Time: 14:37:29

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 721-MW15A-50
 Test Date: January 22, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Butler
 K = 0.0827 cm/sec
 Le = 26.3 ft

AQUIFER DATA

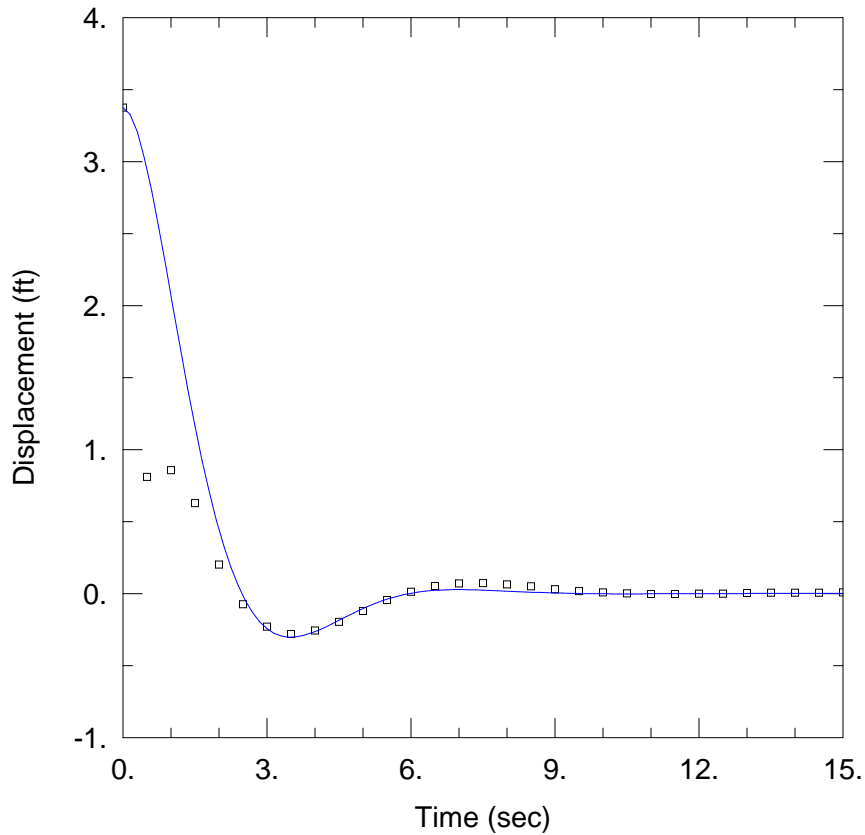
Saturated Thickness: 9.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW15A-50)

Initial Displacement: 3.374 ft
 Total Well Penetration Depth: 9.55 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 42.52 ft
 Screen Length: 4.75 ft
 Well Radius: 0.25 ft



709-MW15A-50 RISING HEAD TEST 4

Data Set: N:\...\709-MW15A-50-RH4.aqt
 Date: 05/13/13 Time: 14:37:18

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 721-MW15A-50
 Test Date: January 22, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Butler
 K = 0.0866 cm/sec
 Le = 25.12 ft

AQUIFER DATA

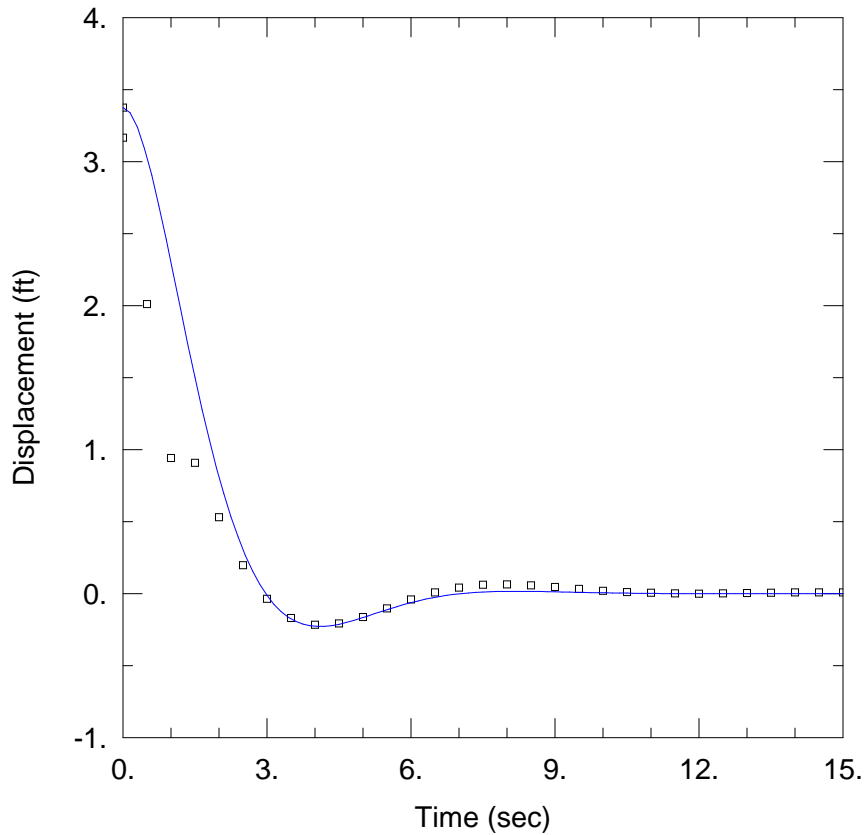
Saturated Thickness: 9.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW15A-50)

Initial Displacement: 3.374 ft
 Total Well Penetration Depth: 9.55 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 42.52 ft
 Screen Length: 4.75 ft
 Well Radius: 0.25 ft



709-MW15A-50 RISING HEAD TEST 5

Data Set: N:\...\709-MW15A-50-RH5.aqt
 Date: 05/13/13 Time: 14:37:03

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 721-MW15A-50
 Test Date: January 22, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Butler
 K = 0.07203 cm/sec
 Le = 31.62 ft

AQUIFER DATA

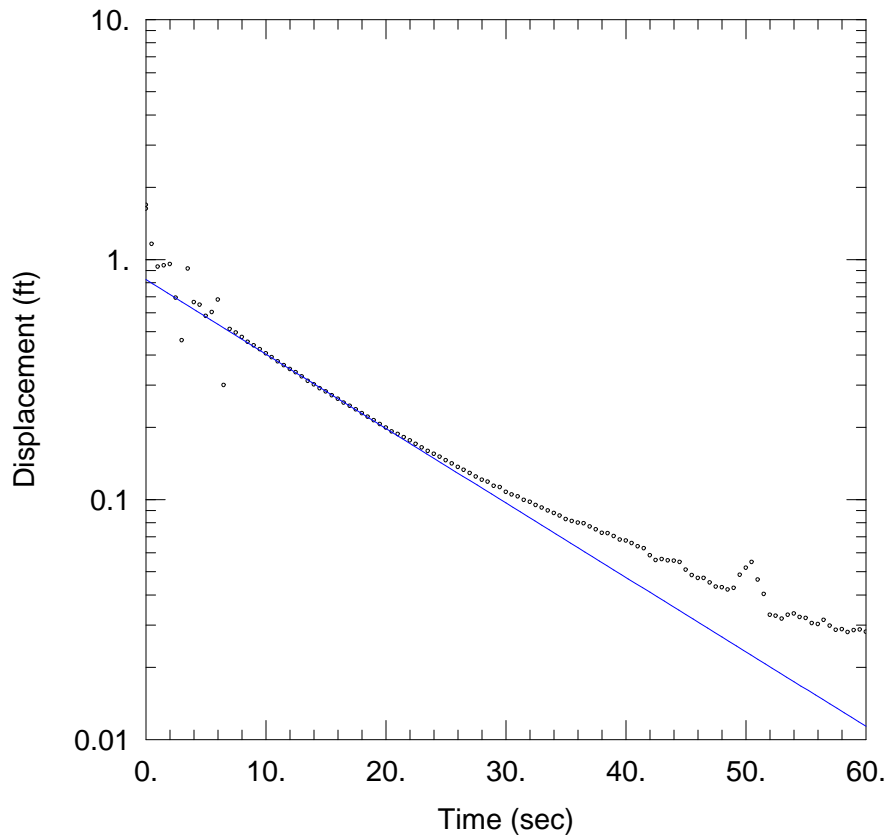
Saturated Thickness: 9.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW15A-50)

Initial Displacement: 3.374 ft
 Total Well Penetration Depth: 9.55 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 42.52 ft
 Screen Length: 4.75 ft
 Well Radius: 0.25 ft



709-MW16-25 FALLING HEAD TEST 1

Data Set: N:\...\709-MW16-25-FH1.aqt

Date: 05/08/13

Time: 14:23:37

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW16-25

Test Date: January 21, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.004759$ cm/sec

$y_0 = 0.8244$ ft

AQUIFER DATA

Saturated Thickness: 9.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (709-MW16-25)

Initial Displacement: 1.688 ft

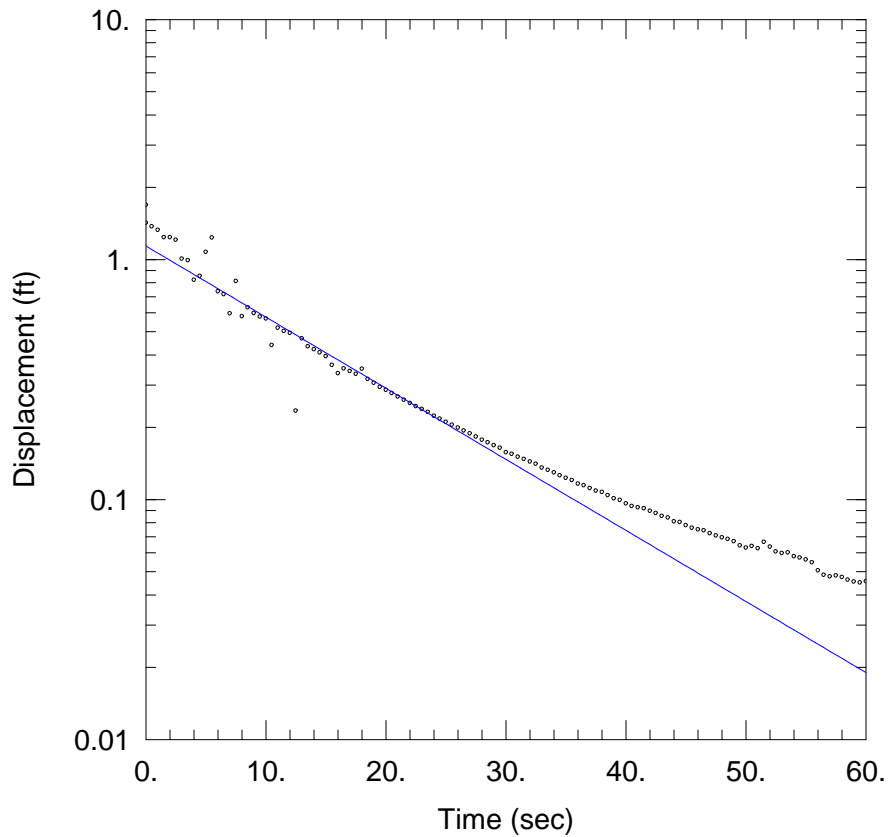
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.75 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW16-25 FALLING HEAD TEST 2

Data Set: N:\...\709-MW16-25-FH2.aqt

Date: 05/08/13

Time: 14:23:24

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW16-25

Test Date: January 21, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.004545 cm/sec

y0 = 1.138 ft

AQUIFER DATA

Saturated Thickness: 9.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW16-25)

Initial Displacement: 1.688 ft

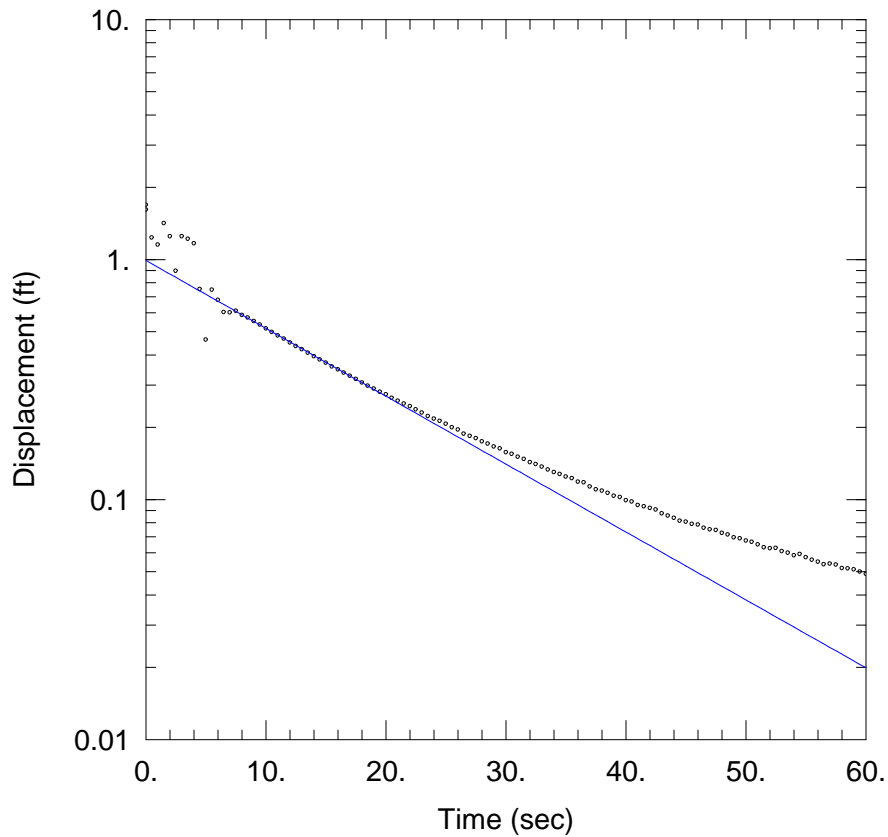
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.75 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW16-25 FALLING HEAD TEST 3

Data Set: N:\...\709-MW16-25-FH3.aqt

Date: 05/08/13

Time: 14:23:11

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW16-25

Test Date: January 21, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.00434 cm/sec

y0 = 0.9911 ft

AQUIFER DATA

Saturated Thickness: 9.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW16-25)

Initial Displacement: 1.688 ft

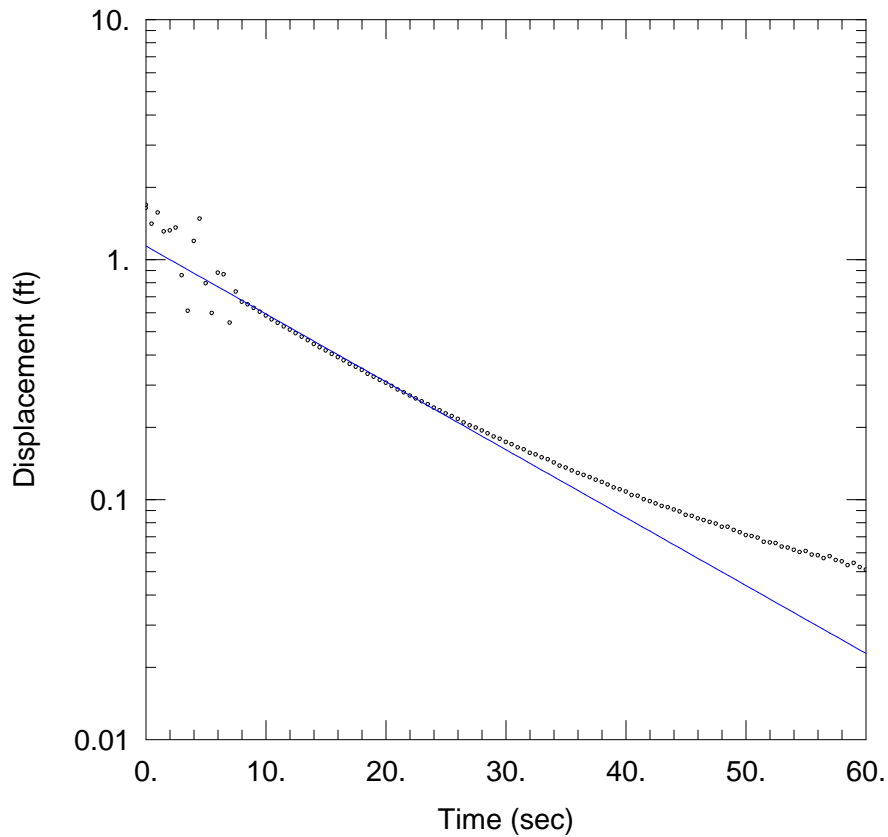
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.75 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW16-25 FALLING HEAD TEST 4

Data Set: N:\...\709-MW16-25-FH4.aqt

Date: 05/08/13

Time: 14:22:59

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW16-25

Test Date: January 21, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.00434 cm/sec

y0 = 1.138 ft

AQUIFER DATA

Saturated Thickness: 9.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW16-25)

Initial Displacement: 1.688 ft

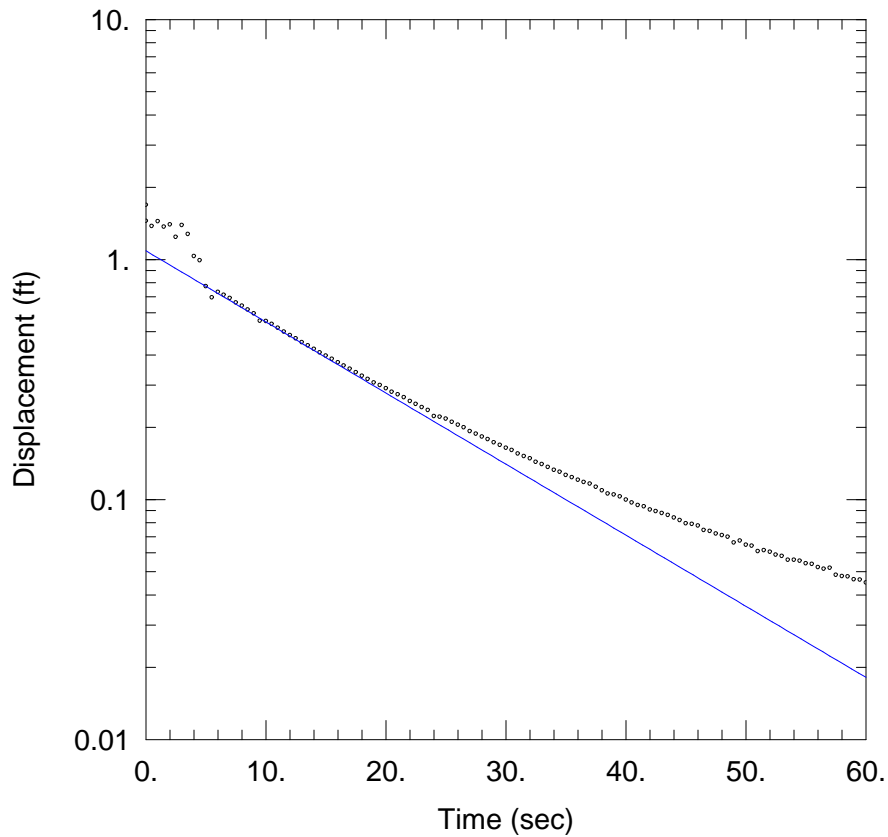
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.75 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW16-25 FALLING HEAD TEST 5

Data Set: N:\...\709-MW16-25-FH5.aqt

Date: 05/08/13

Time: 14:22:45

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW16-25

Test Date: January 21, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.004545 cm/sec

y0 = 1.087 ft

AQUIFER DATA

Saturated Thickness: 9.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW16-25)

Initial Displacement: 1.688 ft

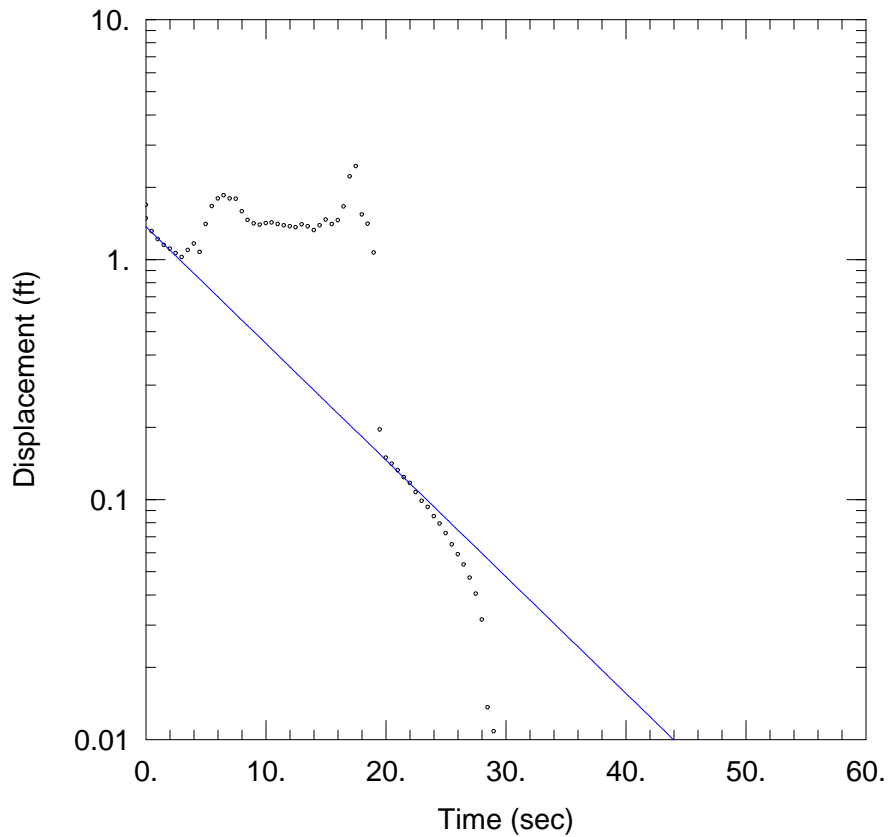
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.75 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW16-25 RISING HEAD TEST 1

Data Set: N:\...\709-MW16-25-RH1.aqt

Date: 05/08/13

Time: 14:28:43

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW16-25

Test Date: January 21, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.007456$ cm/sec

$y_0 = 1.368$ ft

AQUIFER DATA

Saturated Thickness: 9.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (709-MW16-25)

Initial Displacement: 1.688 ft

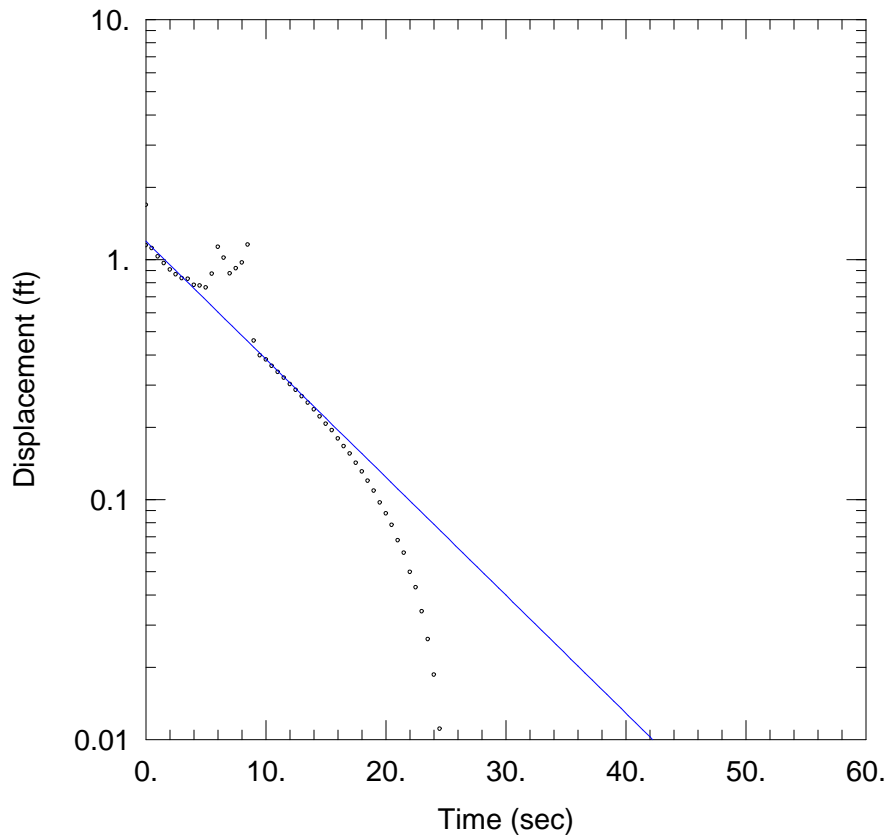
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.75 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW16-25 RISING HEAD TEST 2

Data Set: N:\...\709-MW16-25-RH2.aqt

Date: 05/08/13

Time: 14:28:30

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW16-25

Test Date: January 21, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.007543 cm/sec

y0 = 1.192 ft

AQUIFER DATA

Saturated Thickness: 9.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW16-25)

Initial Displacement: 1.688 ft

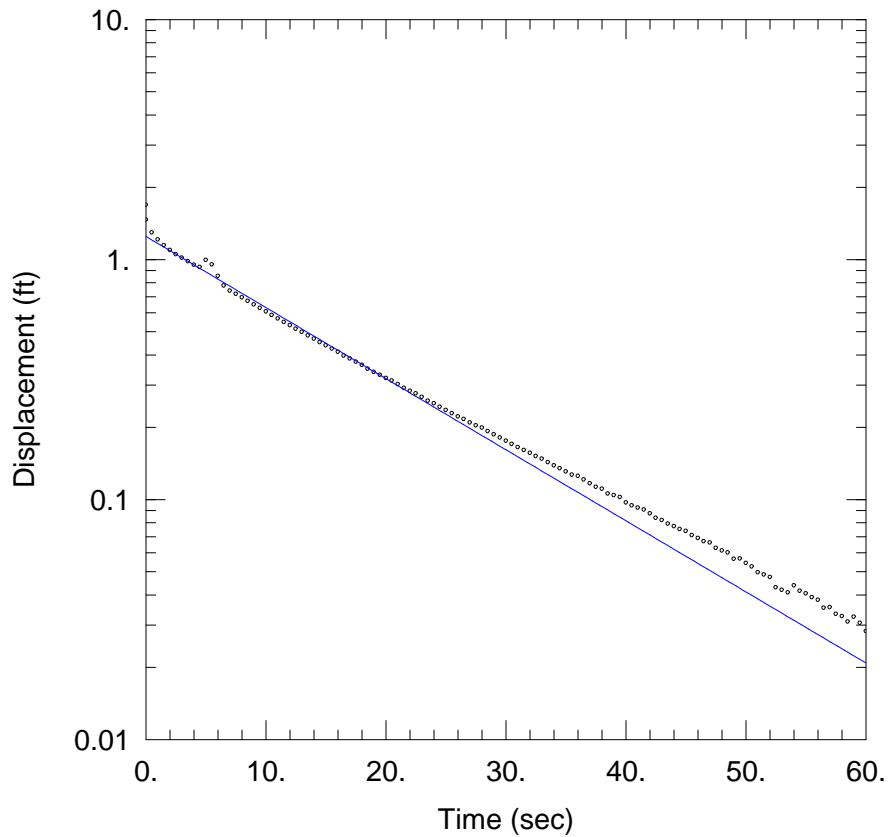
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.75 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW16-25 RISING HEAD TEST 3

Data Set: N:\...\709-MW16-25-RH3.aqt

Date: 05/08/13

Time: 14:28:18

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW16-25

Test Date: January 21, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.004545 cm/sec

y0 = 1.248 ft

AQUIFER DATA

Saturated Thickness: 9.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW16-25)

Initial Displacement: 1.688 ft

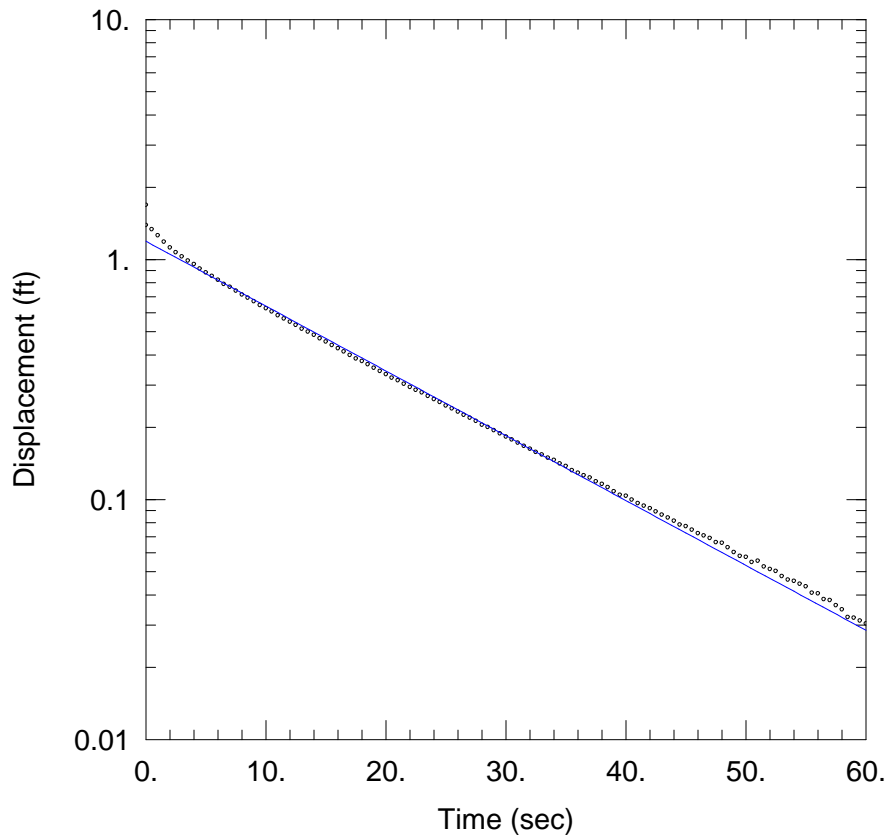
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.75 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW16-25 RISING HEAD TEST 4

Data Set: N:\...\709-MW16-25-RH4.aqt

Date: 05/08/13

Time: 14:28:05

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW16-25

Test Date: January 21, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.004145 cm/sec

y0 = 1.192 ft

AQUIFER DATA

Saturated Thickness: 9.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW16-25)

Initial Displacement: 1.688 ft

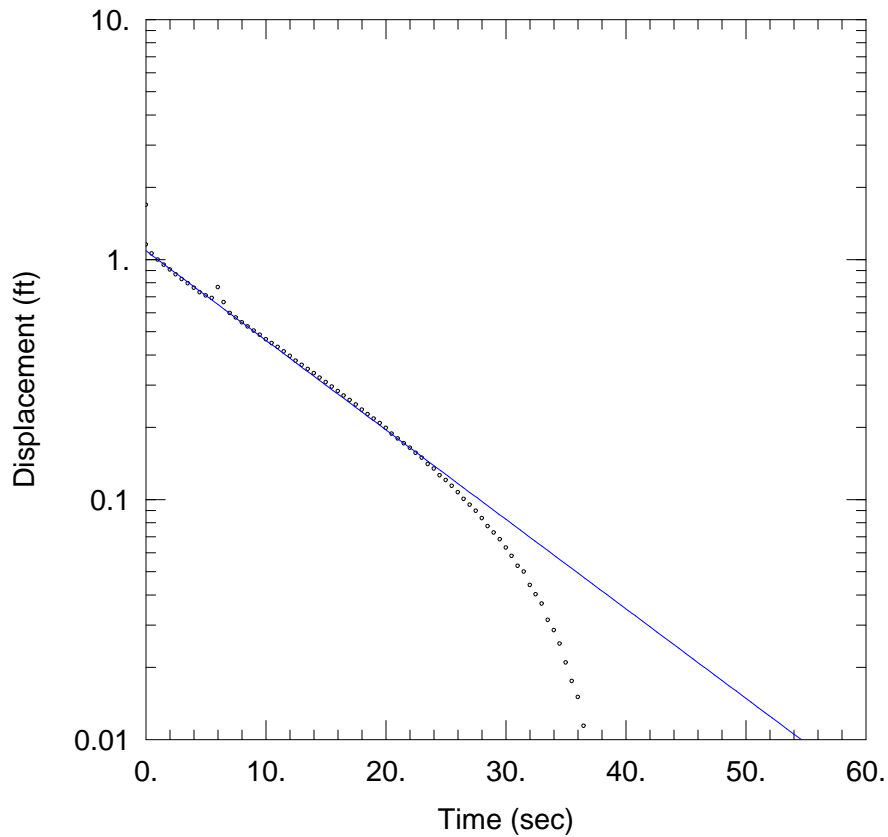
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.75 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW16-25 RISING HEAD TEST 5

Data Set: N:\...\709-MW16-25-RH5.aqt

Date: 05/08/13

Time: 14:27:53

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW16-25

Test Date: January 21, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.005722 cm/sec

y0 = 1.087 ft

AQUIFER DATA

Saturated Thickness: 9.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW16-25)

Initial Displacement: 1.688 ft

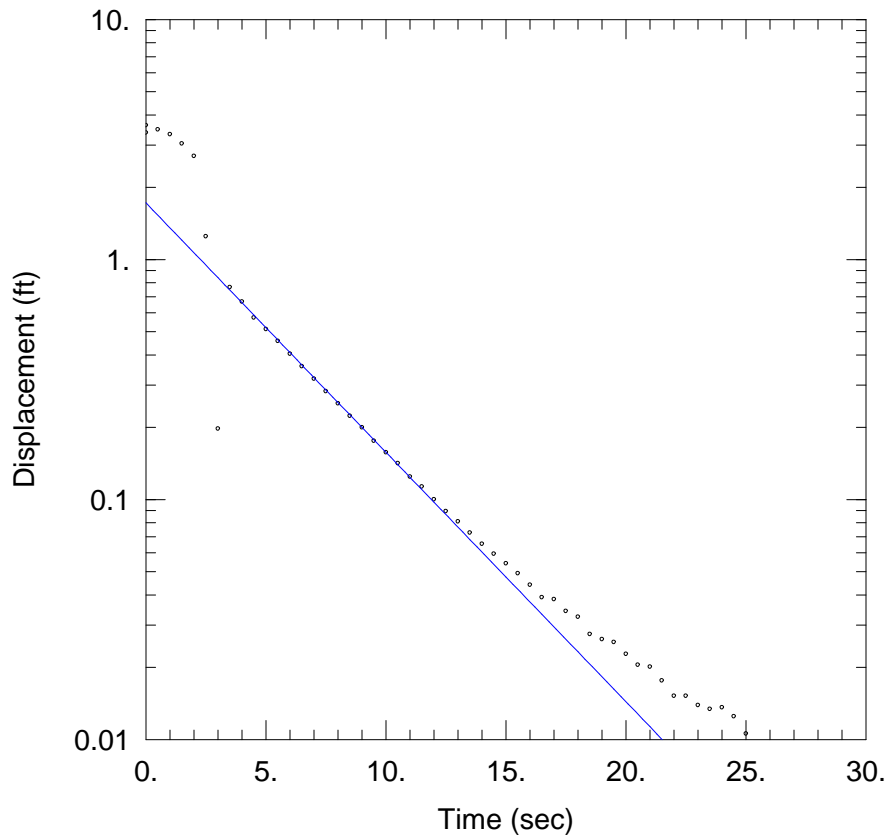
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.75 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW16-50 FALLING HEAD TEST 1

Data Set: N:\...\709-MW16-50-FH1.aqt

Date: 05/08/13

Time: 14:45:55

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW16-50

Test Date: January 22, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01895 cm/sec

y0 = 1.722 ft

AQUIFER DATA

Saturated Thickness: 7.61 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW16-50)

Initial Displacement: 3.375 ft

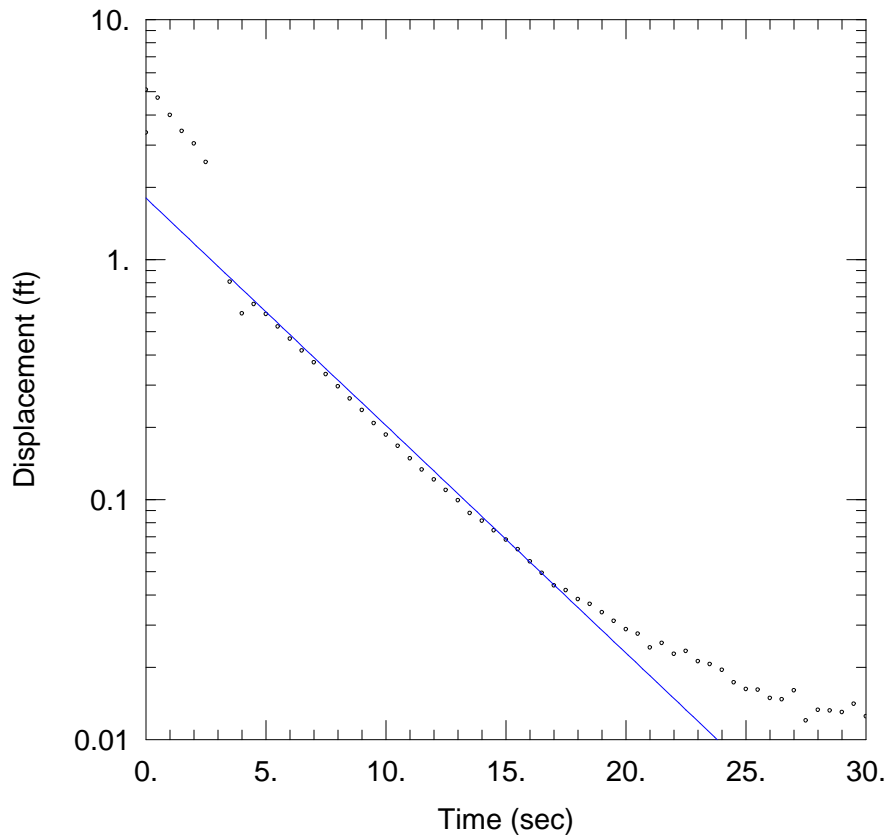
Total Well Penetration Depth: 7.61 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.42 ft

Screen Length: 4.61 ft

Well Radius: 0.25 ft



709-MW16-50 FALLING HEAD TEST 2

Data Set: N:\...\709-MW16-50-FH2.aqt

Date: 05/08/13

Time: 14:45:43

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW16-50

Test Date: January 22, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01728 cm/sec

y0 = 1.804 ft

AQUIFER DATA

Saturated Thickness: 7.61 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW16-50)

Initial Displacement: 3.375 ft

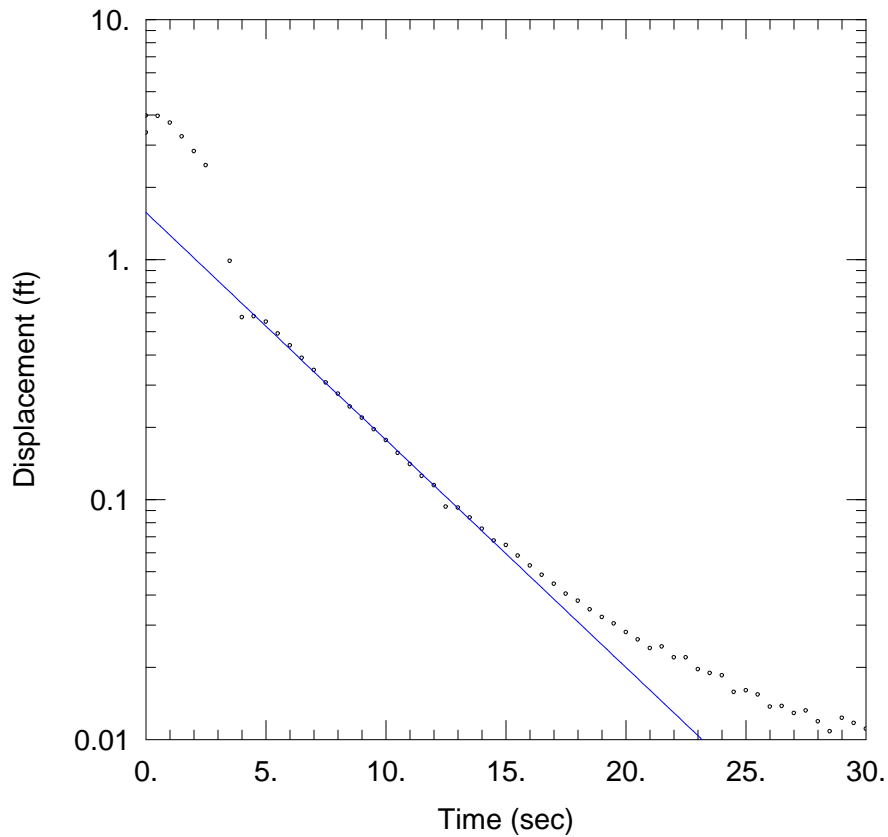
Total Well Penetration Depth: 7.61 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.42 ft

Screen Length: 4.61 ft

Well Radius: 0.25 ft



709-MW16-50 FALLING HEAD TEST 3

Data Set: N:\...\709-MW16-50-FH3.aqt

Date: 05/08/13

Time: 14:45:30

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW16-50

Test Date: January 22, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01728 cm/sec

y0 = 1.571 ft

AQUIFER DATA

Saturated Thickness: 7.61 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW16-50)

Initial Displacement: 3.375 ft

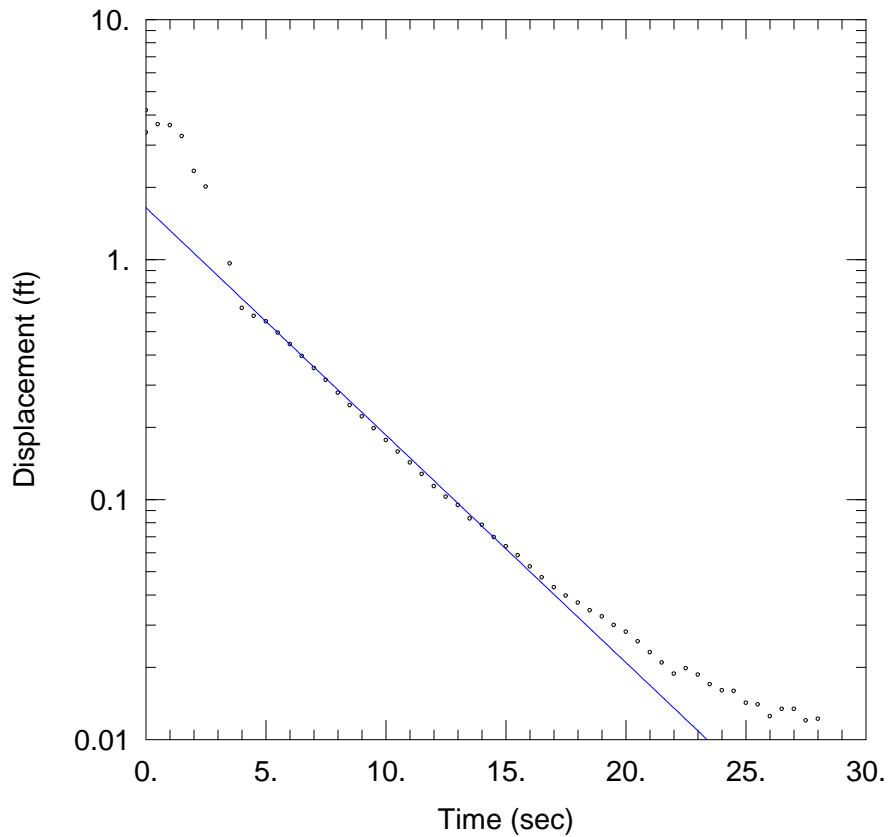
Total Well Penetration Depth: 7.61 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.42 ft

Screen Length: 4.61 ft

Well Radius: 0.25 ft



709-MW16-50 FALLING HEAD TEST 4

Data Set: N:\...\709-MW16-50-FH4.aqt

Date: 05/08/13

Time: 14:45:18

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW16-50

Test Date: January 22, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01728 cm/sec

y0 = 1.645 ft

AQUIFER DATA

Saturated Thickness: 7.61 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW16-50)

Initial Displacement: 3.375 ft

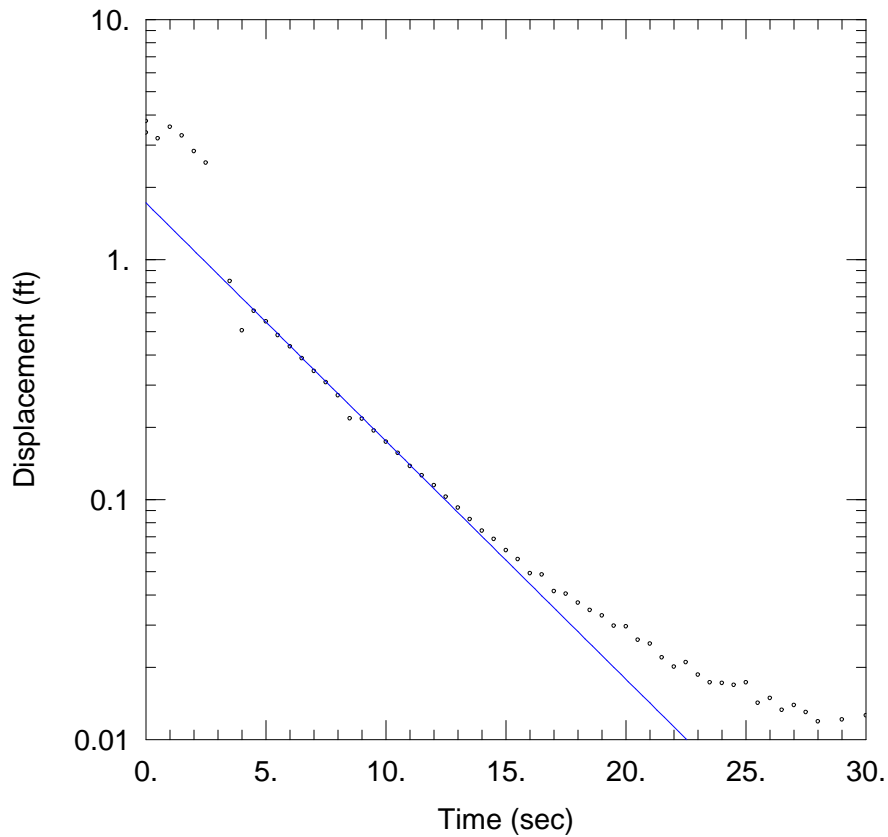
Total Well Penetration Depth: 7.61 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.42 ft

Screen Length: 4.61 ft

Well Radius: 0.25 ft



709-MW16-50 FALLING HEAD TEST 5

Data Set: N:\...\709-MW16-50-FH5.aqt

Date: 05/08/13

Time: 14:45:03

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW16-50

Test Date: January 22, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01809 cm/sec

y0 = 1.722 ft

AQUIFER DATA

Saturated Thickness: 7.61 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW16-50)

Initial Displacement: 3.375 ft

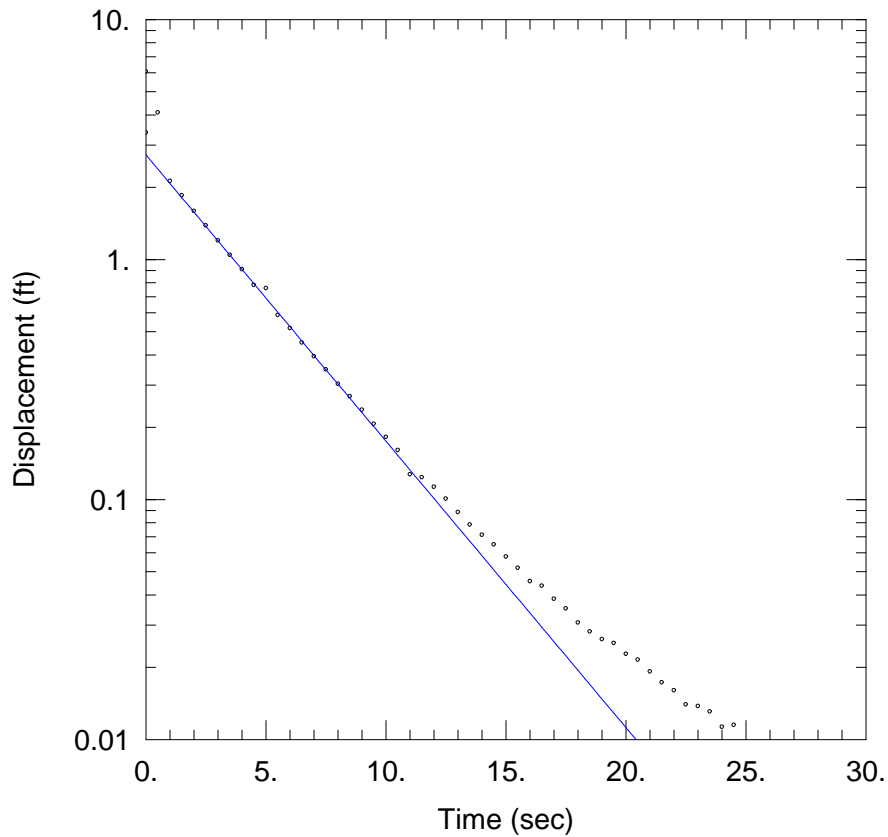
Total Well Penetration Depth: 7.61 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.42 ft

Screen Length: 4.61 ft

Well Radius: 0.25 ft



709-MW16-50 RISING HEAD TEST 1

Data Set: N:\...\709-MW16-50-RH1.aqt

Date: 05/08/13

Time: 14:50:46

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW16-50

Test Date: January 22, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.02175 cm/sec

y0 = 2.73 ft

AQUIFER DATA

Saturated Thickness: 7.61 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW16-50)

Initial Displacement: 3.375 ft

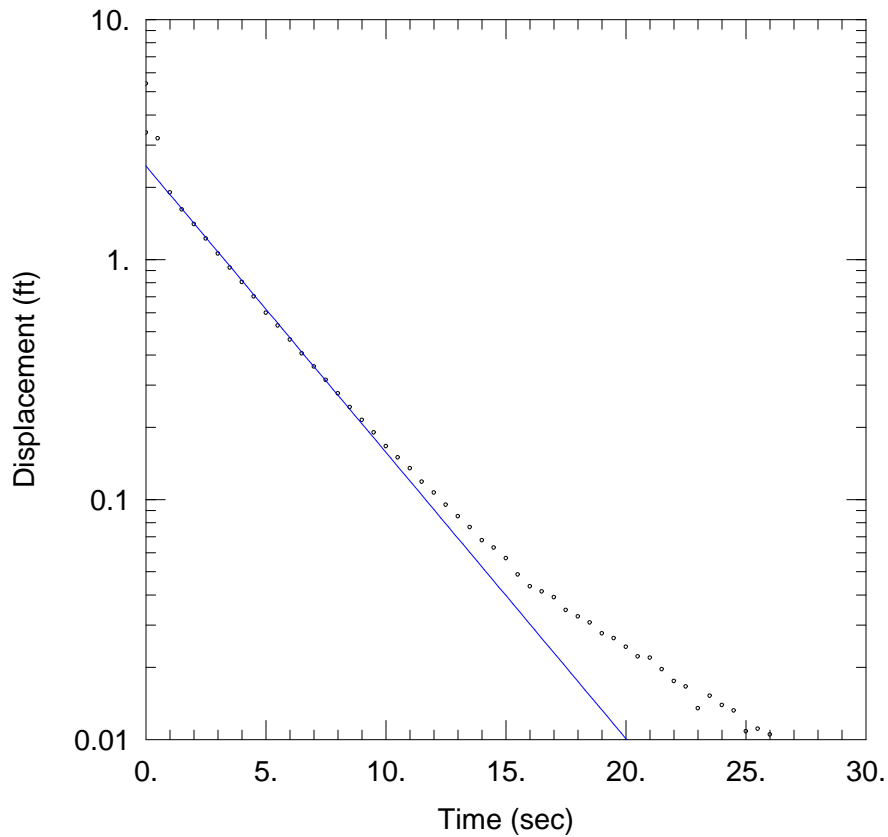
Total Well Penetration Depth: 7.61 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.42 ft

Screen Length: 4.61 ft

Well Radius: 0.25 ft



709-MW16-50 RISING HEAD TEST 2

Data Set: N:\...\709-MW16-50-RH2.aqt

Date: 05/08/13

Time: 14:50:34

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW16-50

Test Date: January 22, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.02175 cm/sec

y0 = 2.454 ft

AQUIFER DATA

Saturated Thickness: 7.61 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW16-50)

Initial Displacement: 3.375 ft

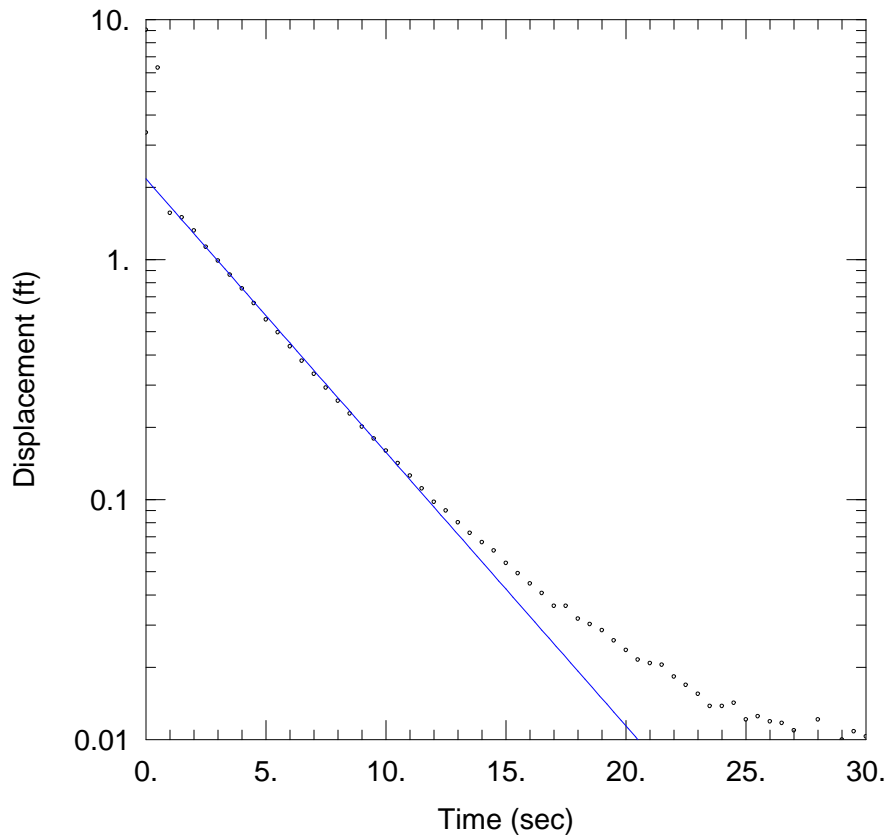
Total Well Penetration Depth: 7.61 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.42 ft

Screen Length: 4.61 ft

Well Radius: 0.25 ft



709-MW16-50 RISING HEAD TEST 3

Data Set: N:\...\709-MW16-50-RH3.aqt

Date: 05/08/13

Time: 14:50:23

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW16-50

Test Date: January 22, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.02077 cm/sec

y0 = 2.168 ft

AQUIFER DATA

Saturated Thickness: 7.61 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW16-50)

Initial Displacement: 3.375 ft

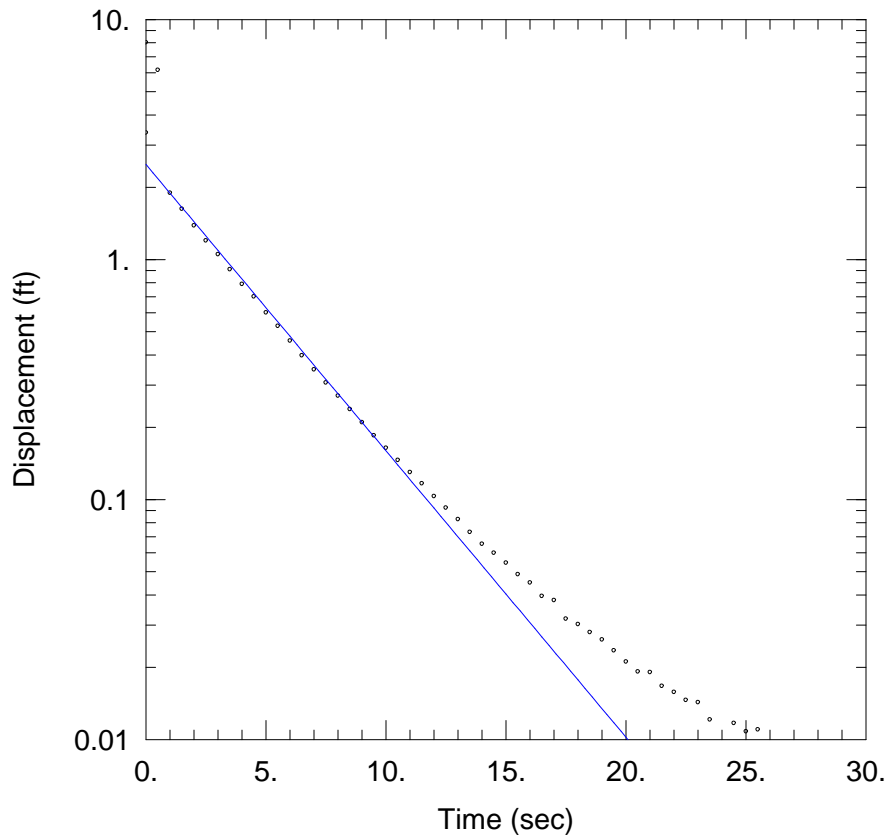
Total Well Penetration Depth: 7.61 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.42 ft

Screen Length: 4.61 ft

Well Radius: 0.25 ft



709-MW16-50 RISING HEAD TEST 4

Data Set: N:\...\709-MW16-50-RH4.aqt

Date: 05/08/13

Time: 14:50:11

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW16-50

Test Date: January 22, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.02175 cm/sec

y0 = 2.49 ft

AQUIFER DATA

Saturated Thickness: 7.61 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW16-50)

Initial Displacement: 3.375 ft

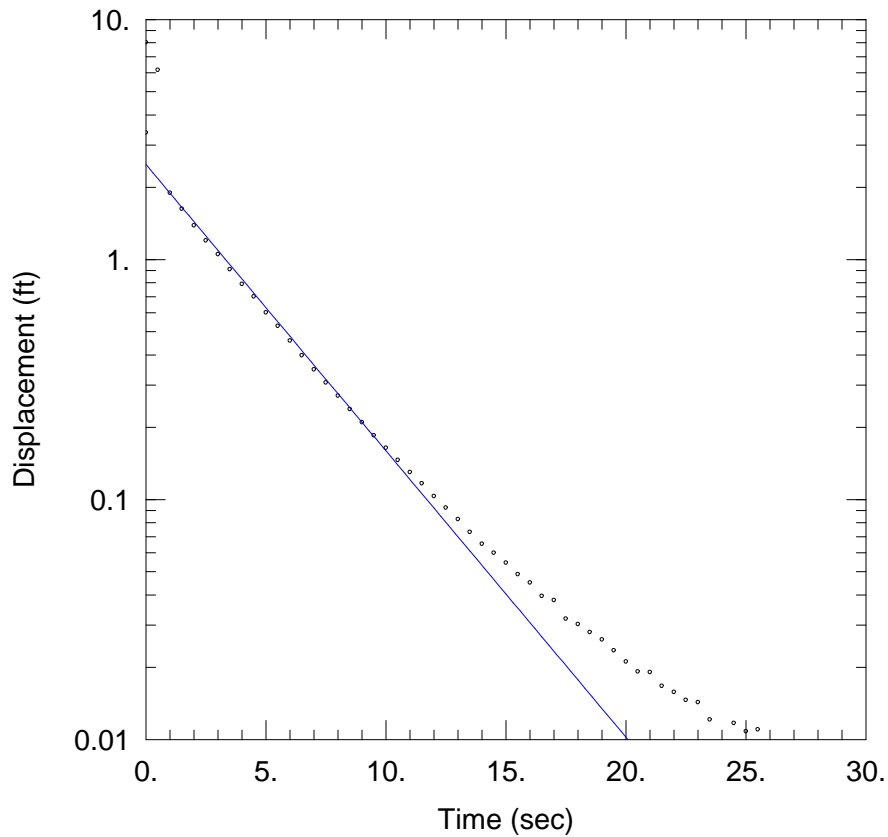
Total Well Penetration Depth: 7.61 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.42 ft

Screen Length: 4.61 ft

Well Radius: 0.25 ft



709-MW16-50 RISING HEAD TEST 5

Data Set: N:\...\709-MW16-50-RH5.aqt

Date: 05/08/13

Time: 14:49:56

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW16-50

Test Date: January 22, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.02175 cm/sec

y0 = 2.49 ft

AQUIFER DATA

Saturated Thickness: 7.61 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW16-50)

Initial Displacement: 3.375 ft

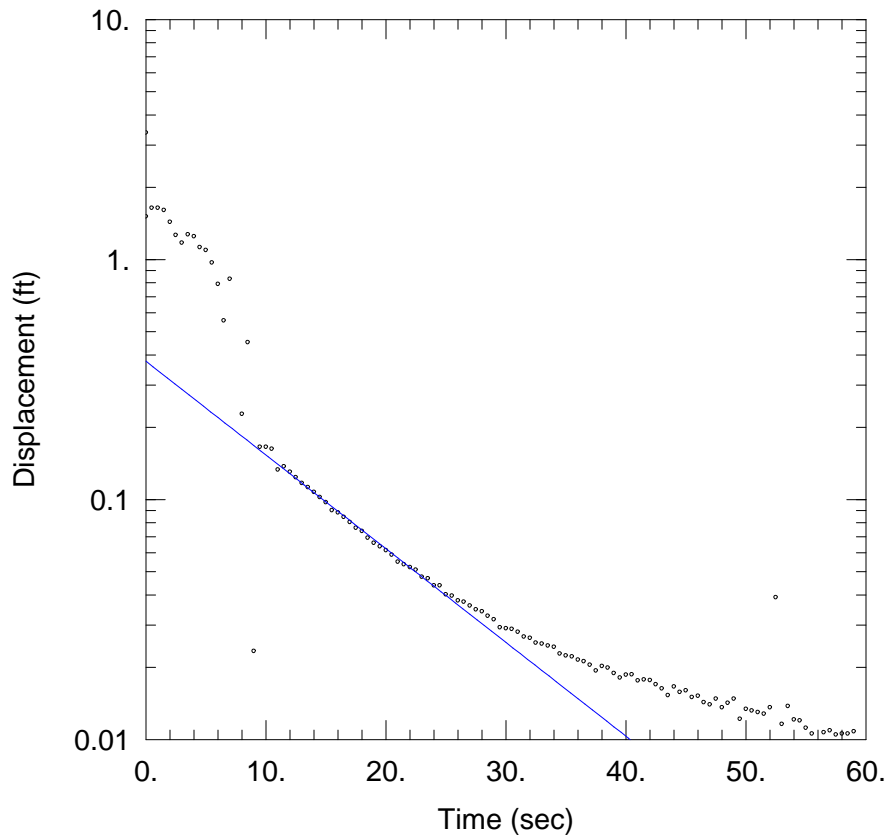
Total Well Penetration Depth: 7.61 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.42 ft

Screen Length: 4.61 ft

Well Radius: 0.25 ft



709-MW16-75 FALLING HEAD TEST 1

Data Set: N:\...\709-MW16-75-FH1.aqt

Date: 05/08/13

Time: 15:01:56

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW16-75

Test Date: January 21, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.005991 cm/sec

y0 = 0.3768 ft

AQUIFER DATA

Saturated Thickness: 9.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW16-75)

Initial Displacement: 3.375 ft

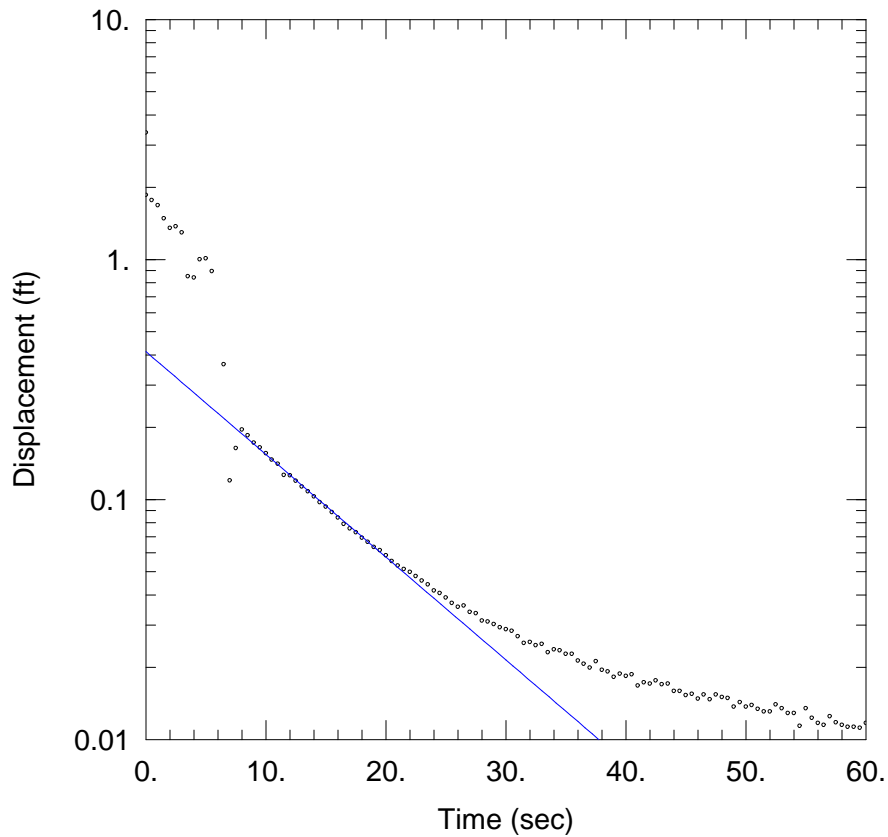
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 65.35 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW16-75 FALLING HEAD TEST 2

Data Set: N:\...\709-MW16-75-FH2.aqt

Date: 05/08/13

Time: 15:01:43

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW16-75

Test Date: January 21, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.006569 cm/sec

y0 = 0.4132 ft

AQUIFER DATA

Saturated Thickness: 9.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW16-75)

Initial Displacement: 3.375 ft

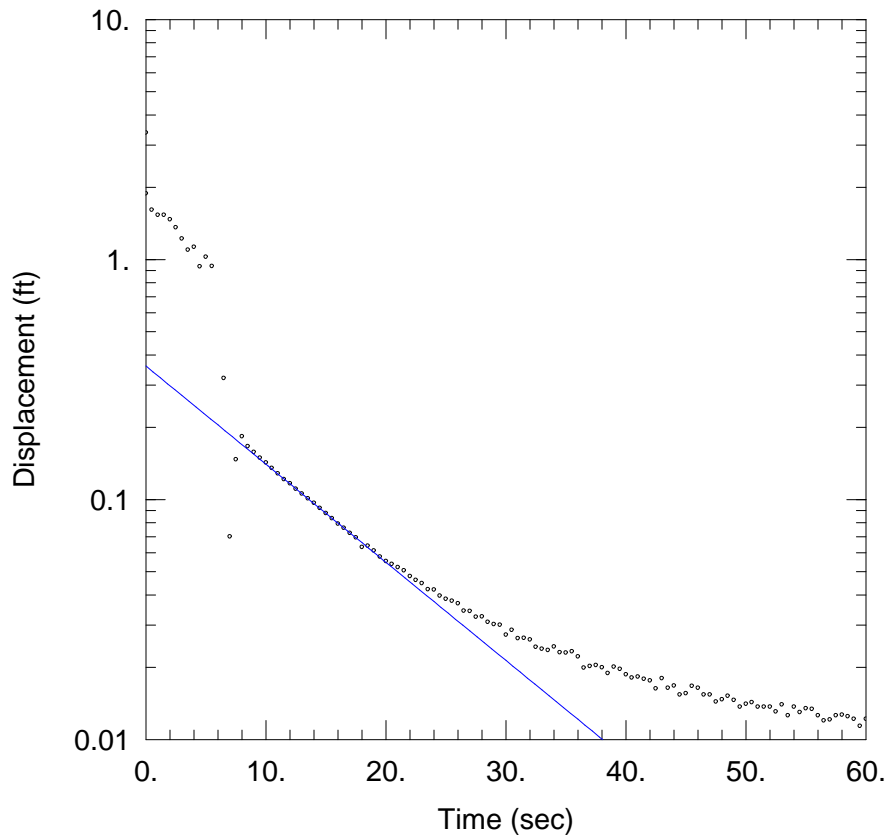
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 65.35 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW16-75 FALLING HEAD TEST 3

Data Set: N:\...\709-MW16-75-FH3.aqt

Date: 05/08/13

Time: 15:01:30

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW16-75

Test Date: January 21, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.006274$ cm/sec

$y_0 = 0.3599$ ft

AQUIFER DATA

Saturated Thickness: 9.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (709-MW16-75)

Initial Displacement: 3.375 ft

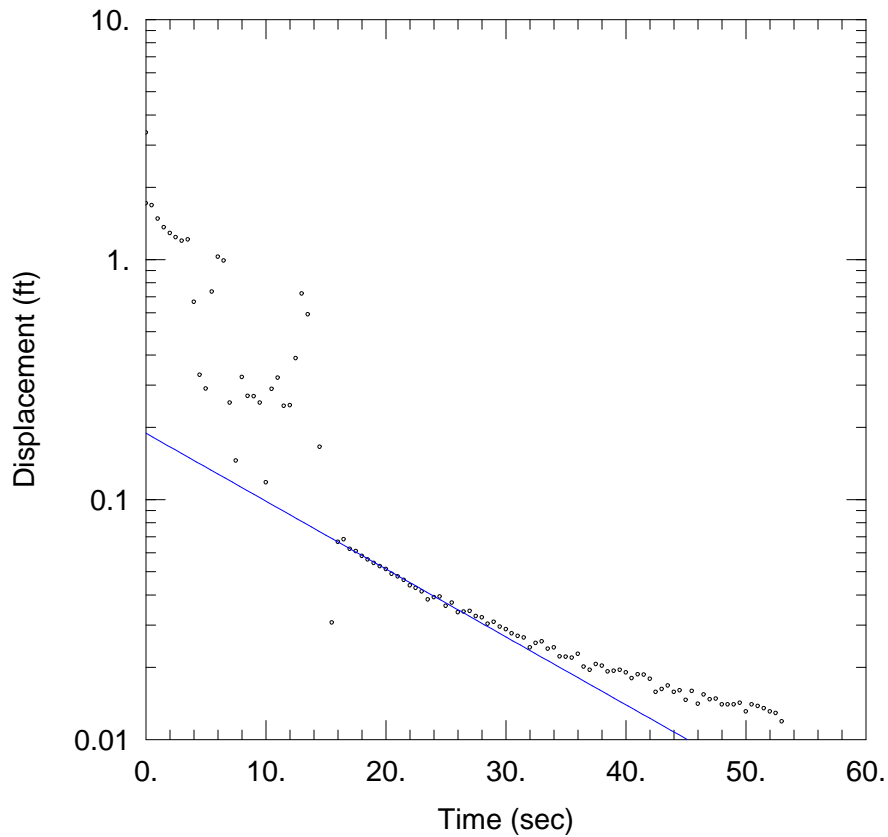
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 65.35 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW16-75 FALLING HEAD TEST 4

Data Set: N:\...\709-MW16-75-FH4.aqt

Date: 05/08/13

Time: 15:01:19

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW16-75

Test Date: January 21, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.00434 cm/sec

y0 = 0.1889 ft

AQUIFER DATA

Saturated Thickness: 9.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW16-75)

Initial Displacement: 3.375 ft

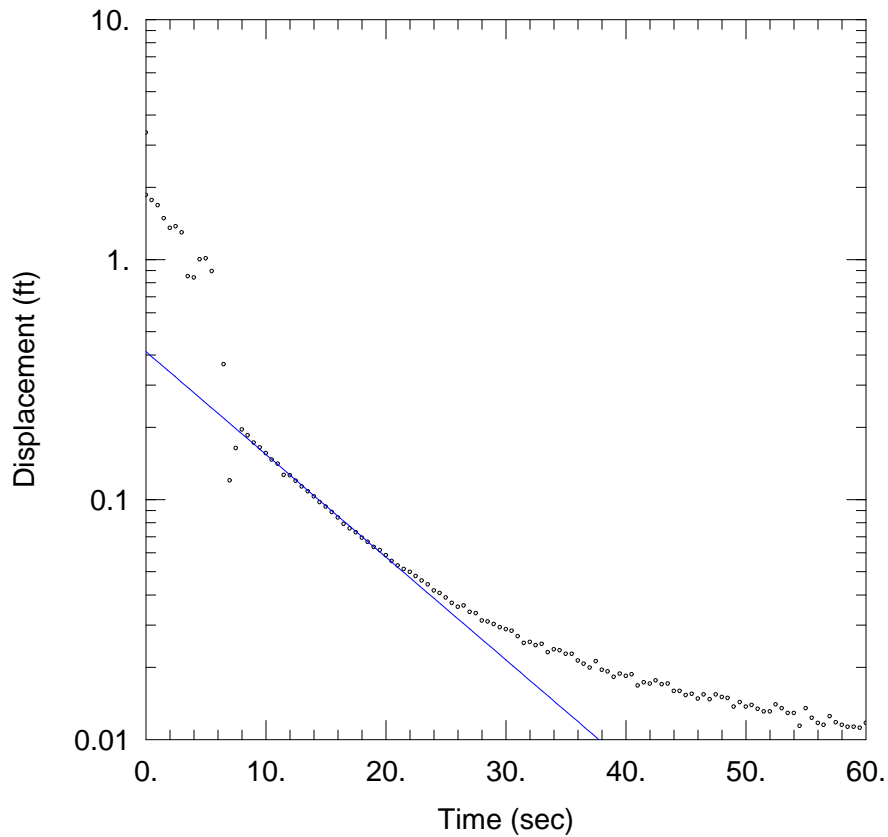
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 65.35 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW16-75 RISING HEAD TEST 1

Data Set: N:\...\709-MW16-75-RH1.aqt

Date: 05/08/13

Time: 15:01:07

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW16-75

Test Date: January 21, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.006569 cm/sec

y0 = 0.4132 ft

AQUIFER DATA

Saturated Thickness: 9.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW16-75)

Initial Displacement: 3.375 ft

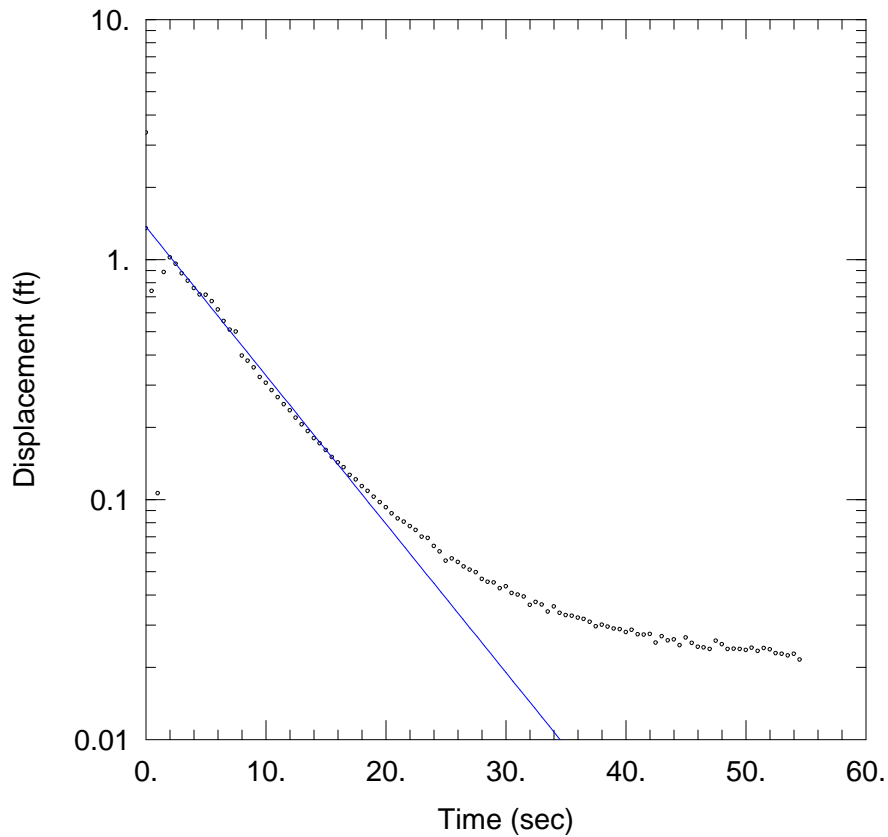
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 65.35 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW16-75 RISING HEAD TEST 2

Data Set: N:\...\709-MW16-75-RH2.aqt

Date: 05/08/13

Time: 15:00:55

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW16-75

Test Date: January 21, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.009496 cm/sec

y0 = 1.368 ft

AQUIFER DATA

Saturated Thickness: 9.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW16-75)

Initial Displacement: 3.375 ft

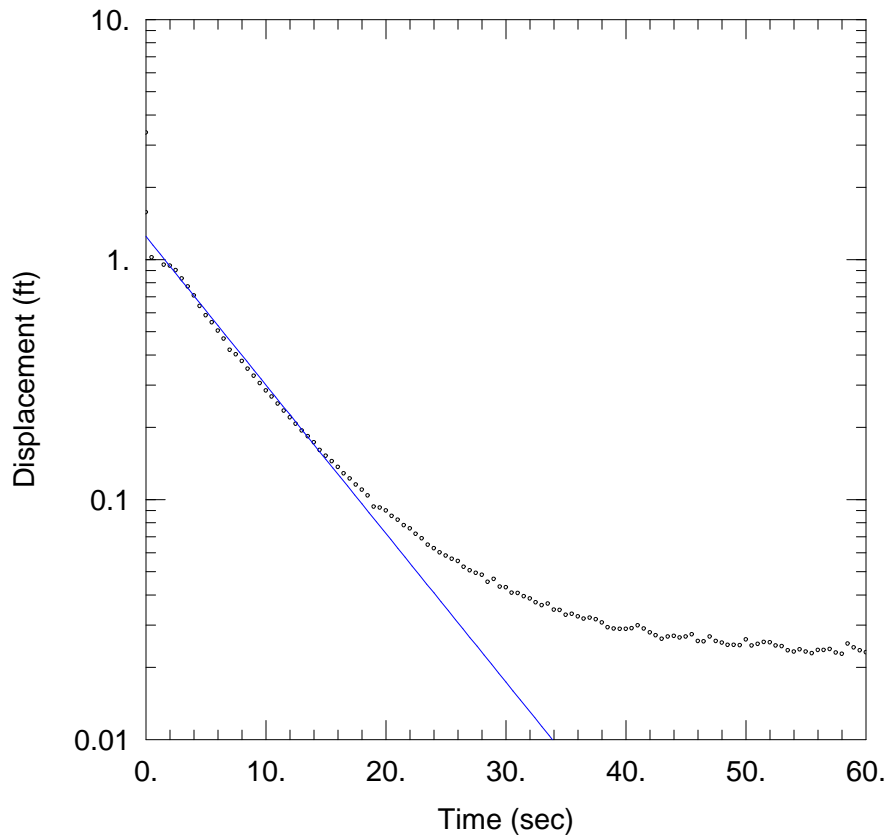
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 65.35 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW16-75 RISING HEAD TEST 3

Data Set: N:\...\709-MW16-75-RH3.aqt

Date: 05/08/13

Time: 15:00:43

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW16-75

Test Date: January 21, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.009496 cm/sec

y0 = 1.248 ft

AQUIFER DATA

Saturated Thickness: 9.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW16-75)

Initial Displacement: 3.375 ft

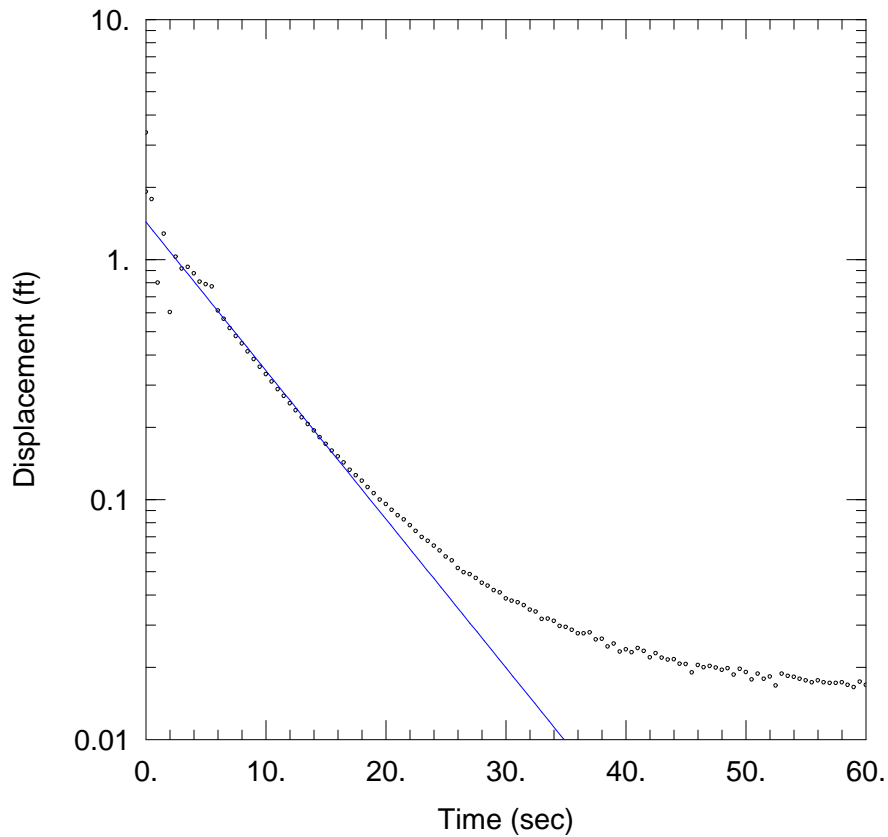
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 65.35 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW16-75 RISING HEAD TEST 4

Data Set: N:\...\709-MW16-75-RH4.aqt

Date: 05/08/13

Time: 15:00:30

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW16-75

Test Date: January 21, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.009496 cm/sec

y0 = 1.433 ft

AQUIFER DATA

Saturated Thickness: 9.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW16-75)

Initial Displacement: 3.375 ft

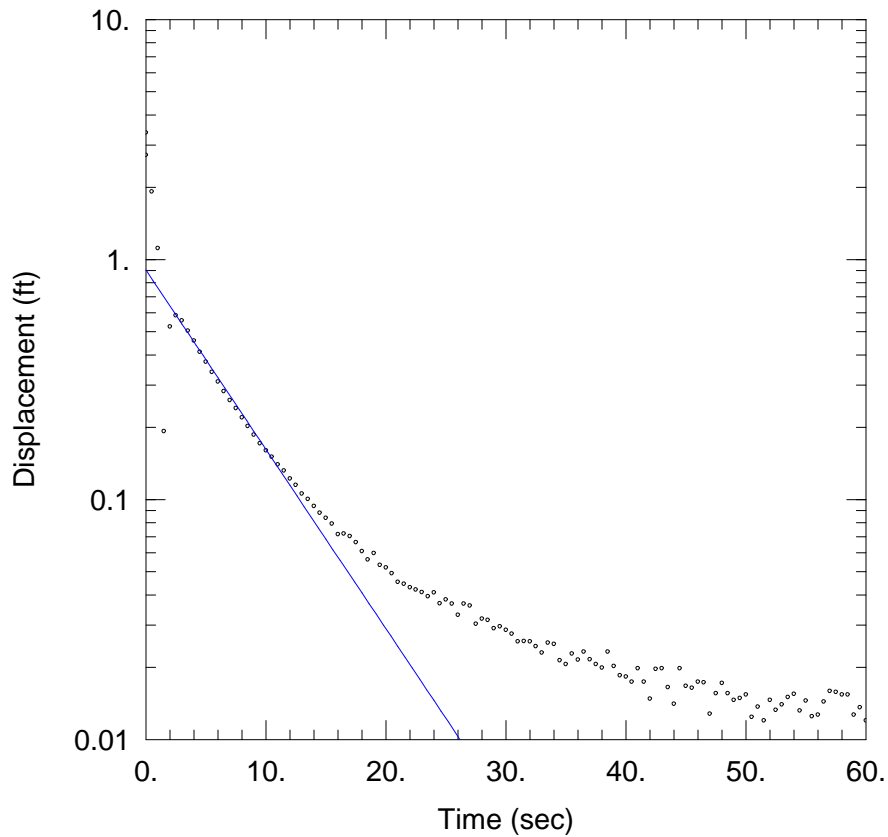
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 65.35 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW18-25 FALLING HEAD TEST 1

Data Set: N:\...\709-MW18-25-FH1.aqt

Date: 05/08/13

Time: 15:54:57

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW18-25

Test Date: January 22, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01142 cm/sec

y0 = 0.9039 ft

AQUIFER DATA

Saturated Thickness: 9.3 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW18-25)

Initial Displacement: 3.375 ft

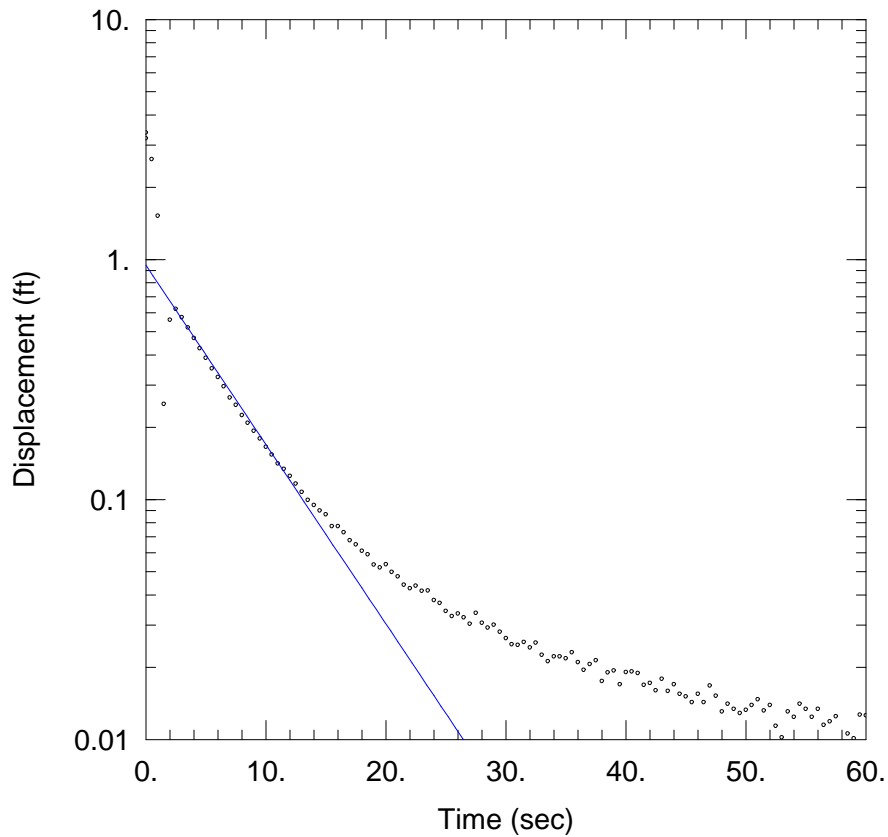
Total Well Penetration Depth: 7.8 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.49 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW18-25 FALLING HEAD TEST 2

Data Set: N:\...\709-MW18-25-FH2.aqt

Date: 05/08/13

Time: 15:54:46

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW18-25

Test Date: January 22, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01142 cm/sec

y0 = 0.9465 ft

AQUIFER DATA

Saturated Thickness: 9.3 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW18-25)

Initial Displacement: 3.375 ft

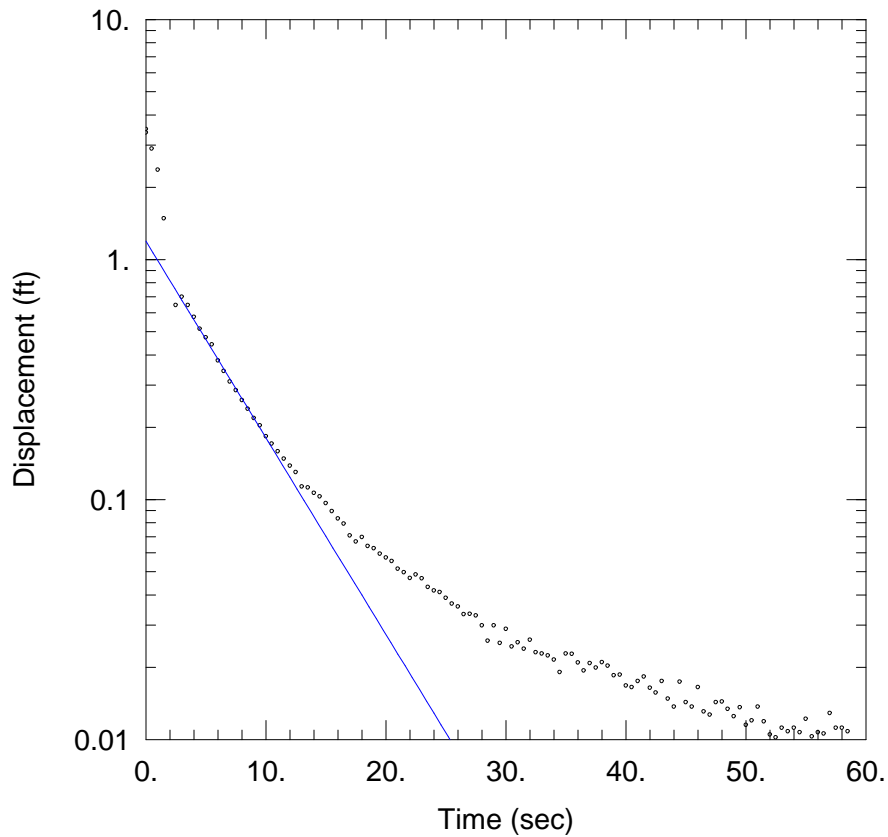
Total Well Penetration Depth: 7.8 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.49 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW18-25 FALLING HEAD TEST 3

Data Set: N:\...\709-MW18-25-FH3.aqt

Date: 05/08/13

Time: 15:54:34

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW18-25

Test Date: January 22, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01252 cm/sec

y0 = 1.192 ft

AQUIFER DATA

Saturated Thickness: 9.3 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW18-25)

Initial Displacement: 3.375 ft

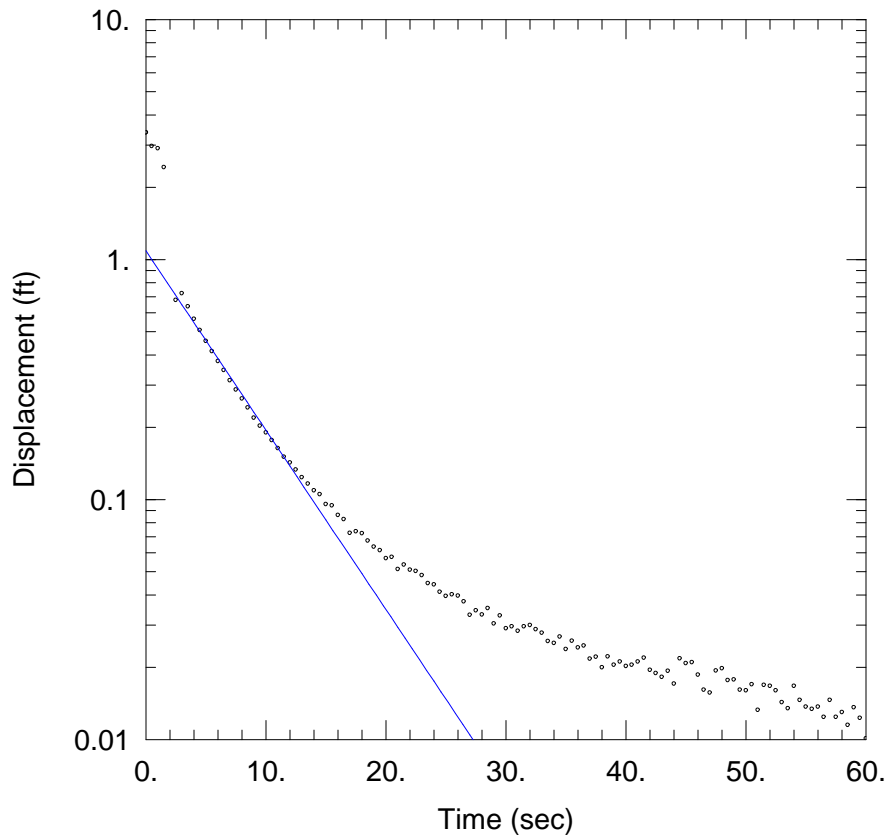
Total Well Penetration Depth: 7.8 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.49 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW18-25 FALLING HEAD TEST 4

Data Set: N:\...\709-MW18-25-FH4.aqt

Date: 05/08/13

Time: 15:54:23

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW18-25

Test Date: January 22, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01142 cm/sec

y0 = 1.087 ft

AQUIFER DATA

Saturated Thickness: 9.3 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW18-25)

Initial Displacement: 3.375 ft

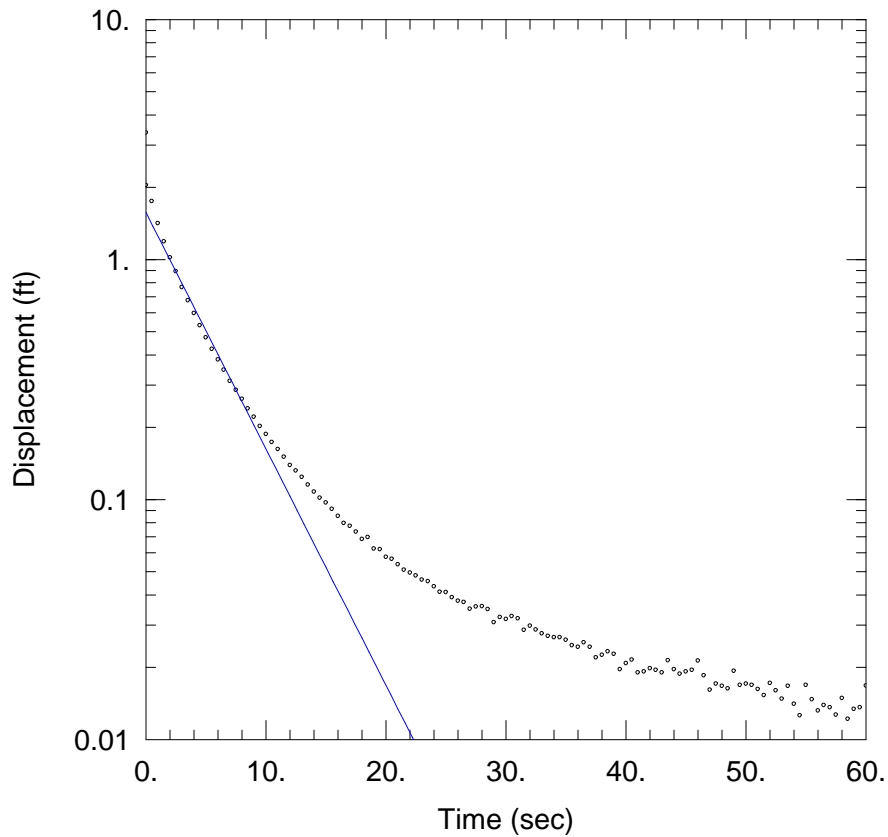
Total Well Penetration Depth: 7.8 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.49 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW18-25 RISING HEAD TEST 1

Data Set: N:\...\709-MW18-25-RH1.aqt

Date: 05/08/13

Time: 15:54:11

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW18-25

Test Date: January 22, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01505 cm/sec

y0 = 1.571 ft

AQUIFER DATA

Saturated Thickness: 9.3 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW18-25)

Initial Displacement: 3.375 ft

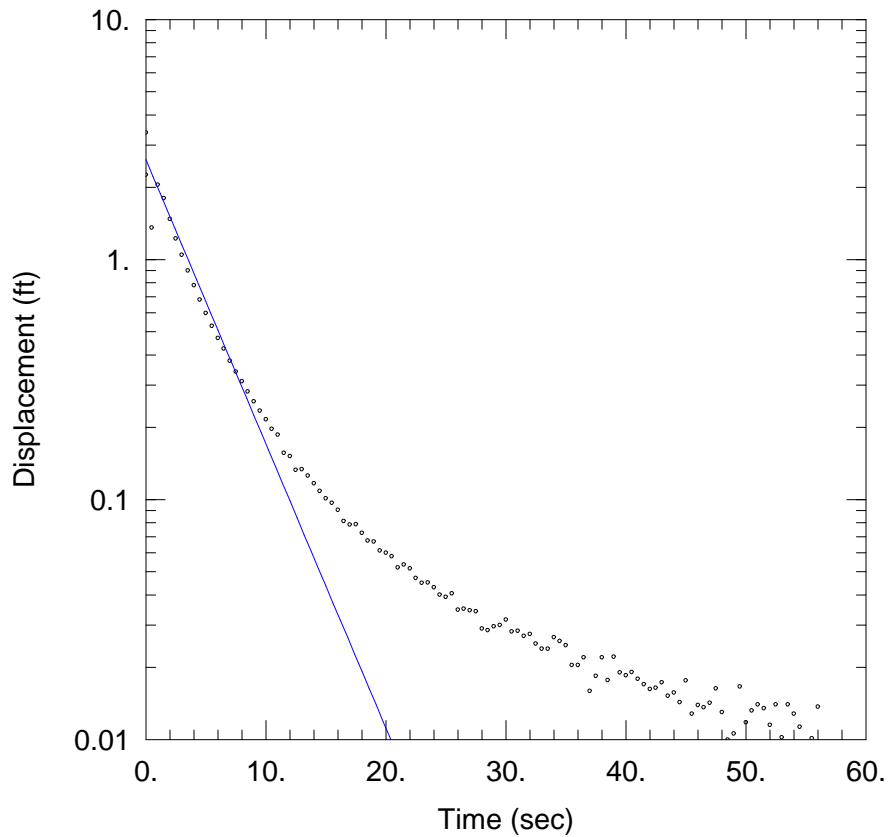
Total Well Penetration Depth: 7.8 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.49 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW18-25 RISING HEAD TEST 2

Data Set: N:\...\709-MW18-25-RH2.aqt

Date: 05/08/13

Time: 15:53:59

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW18-25

Test Date: January 22, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01809 cm/sec

y0 = 2.607 ft

AQUIFER DATA

Saturated Thickness: 9.3 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW18-25)

Initial Displacement: 3.375 ft

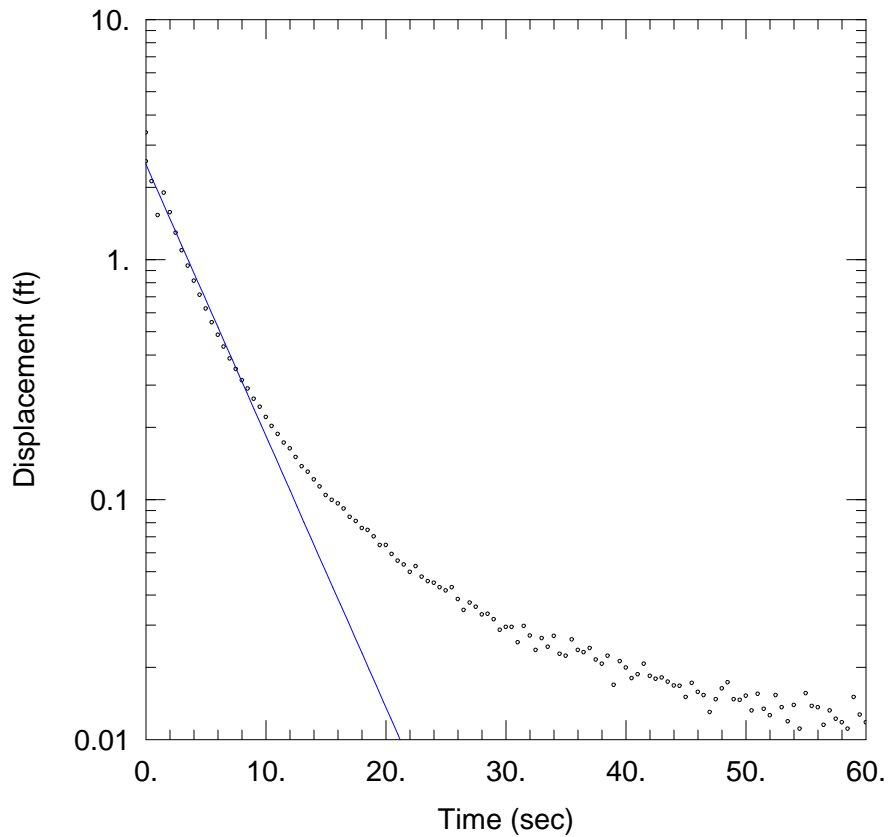
Total Well Penetration Depth: 7.8 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.49 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW18-25 RISING HEAD TEST 3

Data Set: N:\...\709-MW18-25-RH3.aqt

Date: 05/08/13

Time: 15:53:47

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW18-25

Test Date: January 22, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01728 cm/sec

y0 = 2.49 ft

AQUIFER DATA

Saturated Thickness: 9.3 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW18-25)

Initial Displacement: 3.375 ft

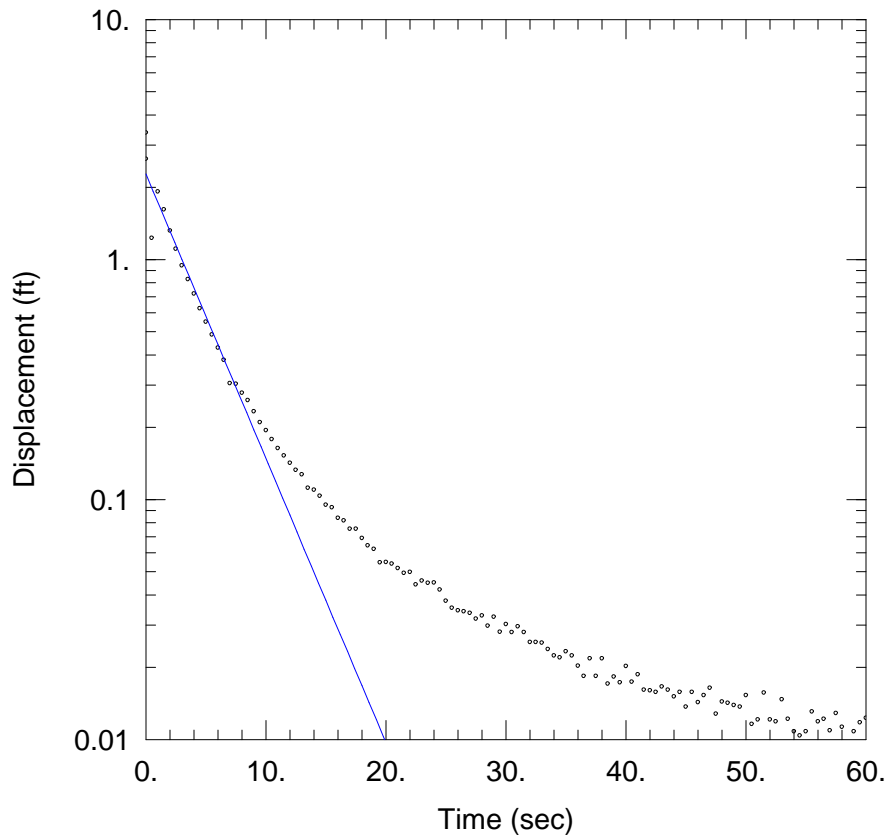
Total Well Penetration Depth: 7.8 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.49 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW18-25 RISING HEAD TEST 4

Data Set: N:\...\709-MW18-25-RH4.aqt

Date: 05/08/13

Time: 15:53:33

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW18-25

Test Date: January 22, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01809 cm/sec

y0 = 2.271 ft

AQUIFER DATA

Saturated Thickness: 9.3 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW18-25)

Initial Displacement: 3.375 ft

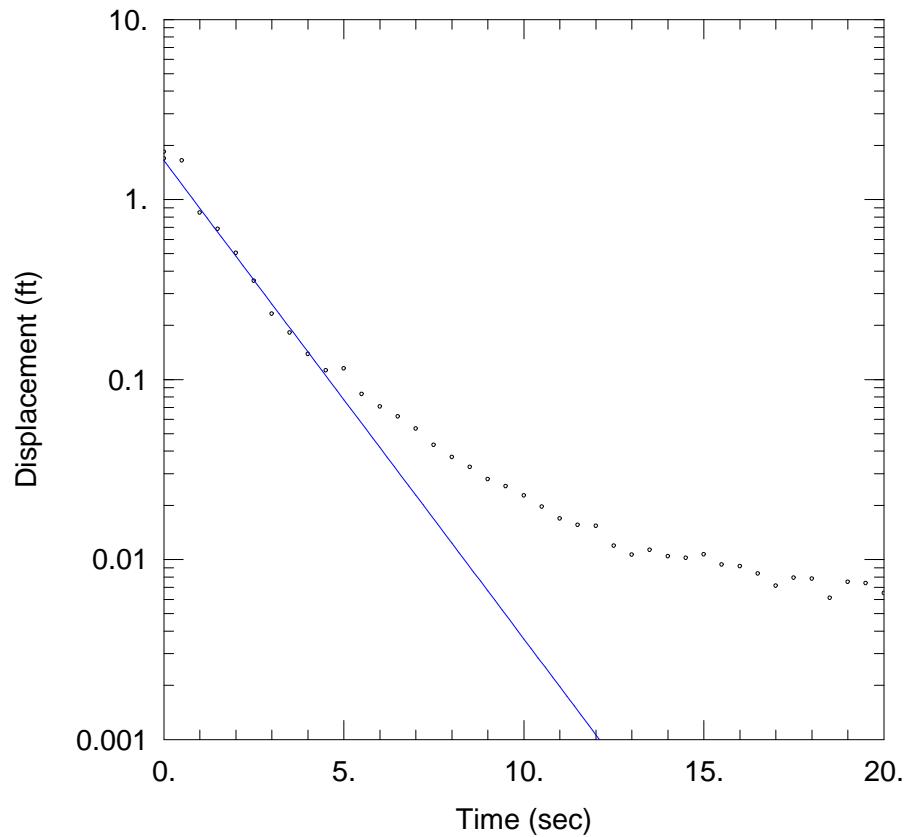
Total Well Penetration Depth: 7.8 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.49 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW18-50 FALLING HEAD TEST 1

Data Set: N:\...\709-MW18-50-FH1.aqt

Date: 05/13/13

Time: 09:23:09

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW18-50

Test Date: February 11, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.04545 cm/sec

y0 = 1.645 ft

AQUIFER DATA

Saturated Thickness: 8.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW18-50)

Initial Displacement: 1.688 ft

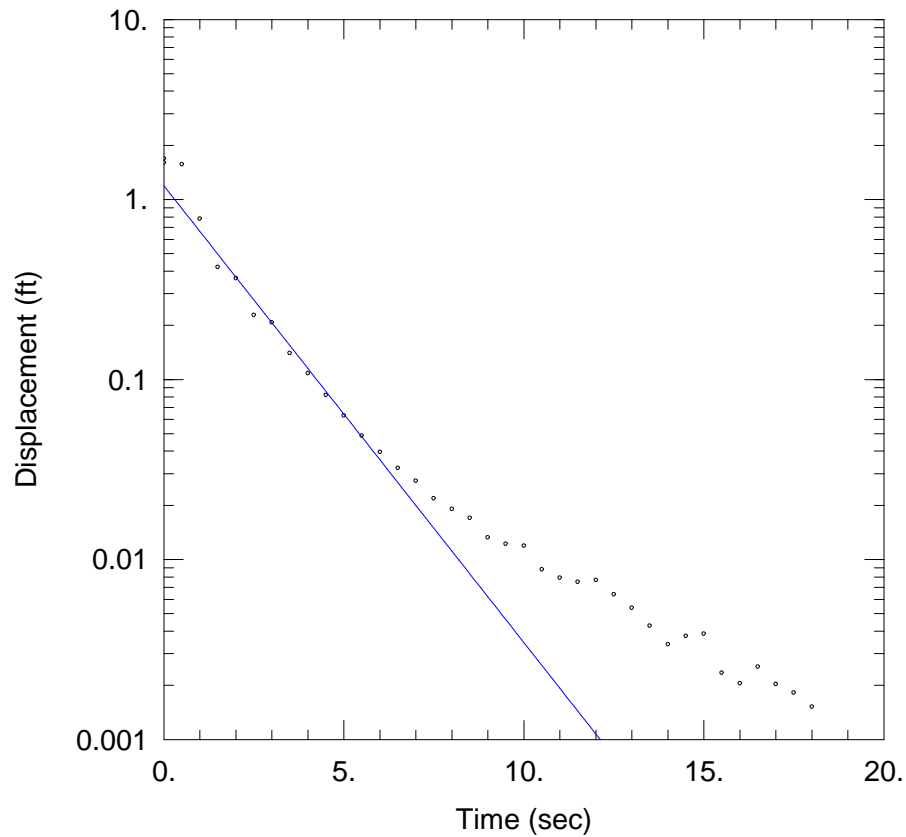
Total Well Penetration Depth: 8.2 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 38.8 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW18-50 FALLING HEAD TEST 2

Data Set: N:\...\709-MW18-50-FH2.aqt

Date: 05/13/13

Time: 09:22:57

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW18-50

Test Date: February 11, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0434 cm/sec

y0 = 1.192 ft

AQUIFER DATA

Saturated Thickness: 8.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW18-50)

Initial Displacement: 1.688 ft

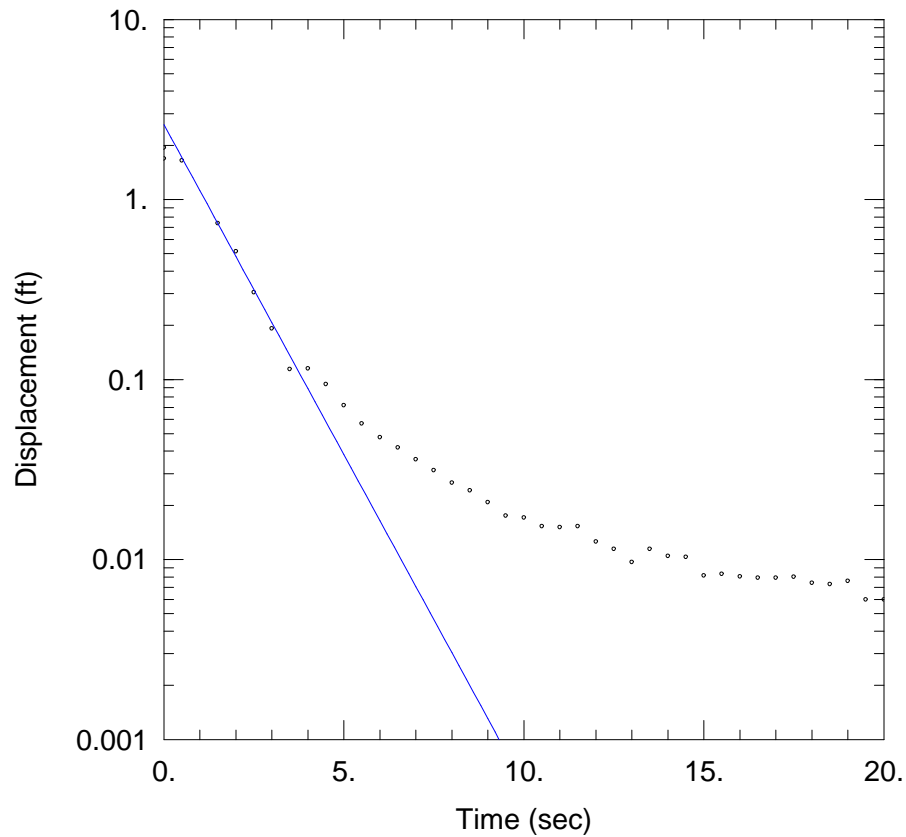
Total Well Penetration Depth: 8.2 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 38.8 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW18-50 FALLING HEAD TEST 3

Data Set: N:\...\709-MW18-50-FH3.aqt

Date: 05/13/13

Time: 09:22:44

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW18-50

Test Date: February 11, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.06274 cm/sec

y0 = 2.607 ft

AQUIFER DATA

Saturated Thickness: 8.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW18-50)

Initial Displacement: 1.688 ft

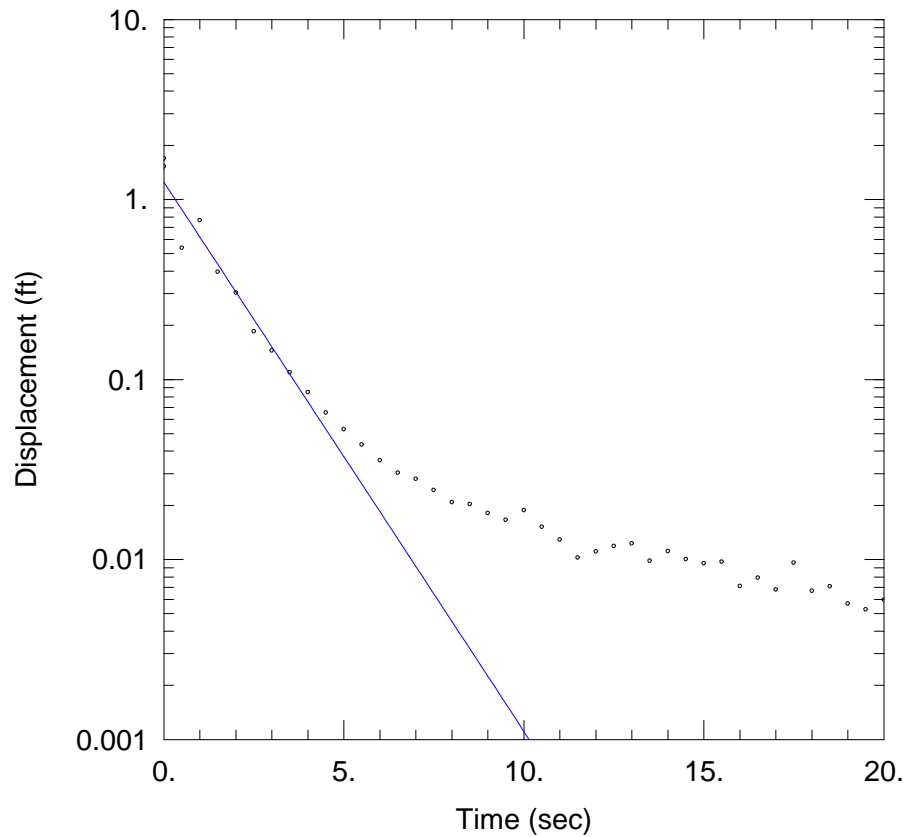
Total Well Penetration Depth: 8.2 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 38.8 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW18-50 FALLING HEAD TEST 4

Data Set: N:\...\709-MW18-50-FH4.aqt

Date: 05/13/13

Time: 09:22:29

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW18-50

Test Date: February 11, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.05218 cm/sec

y0 = 1.248 ft

AQUIFER DATA

Saturated Thickness: 8.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW18-50)

Initial Displacement: 1.688 ft

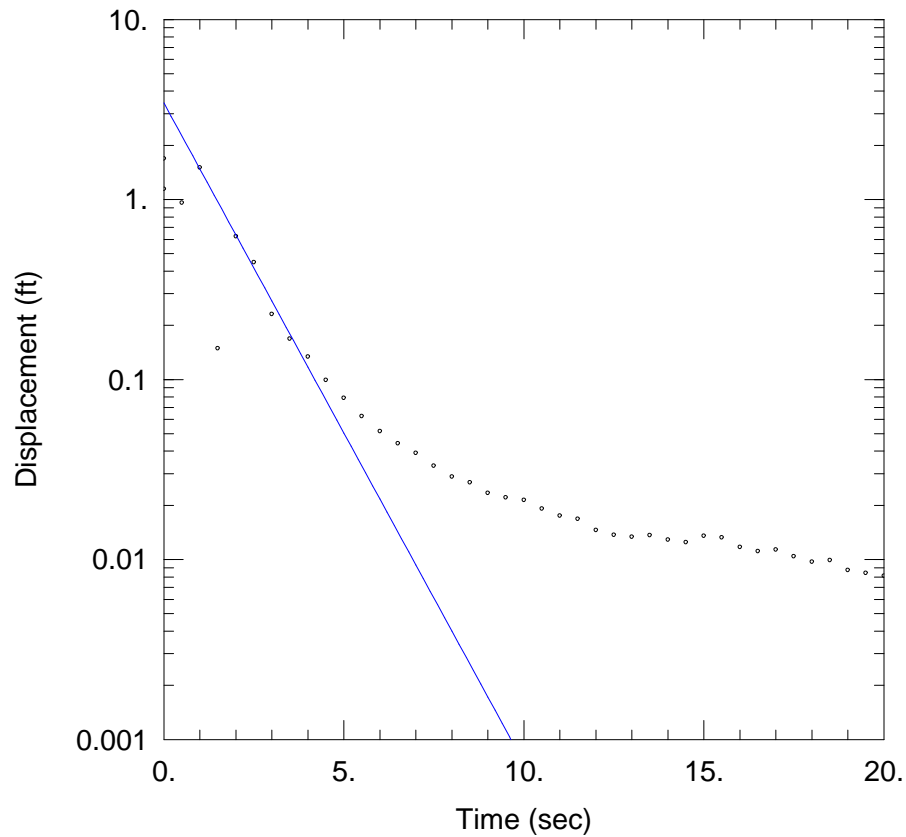
Total Well Penetration Depth: 8.2 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 38.8 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW18-50 FALLING HEAD TEST 5

Data Set: N:\...\709-MW18-50-FH5.aqt

Date: 05/13/13

Time: 09:22:16

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW18-50

Test Date: February 11, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.06274 cm/sec

y0 = 3.437 ft

AQUIFER DATA

Saturated Thickness: 8.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW18-50)

Initial Displacement: 1.688 ft

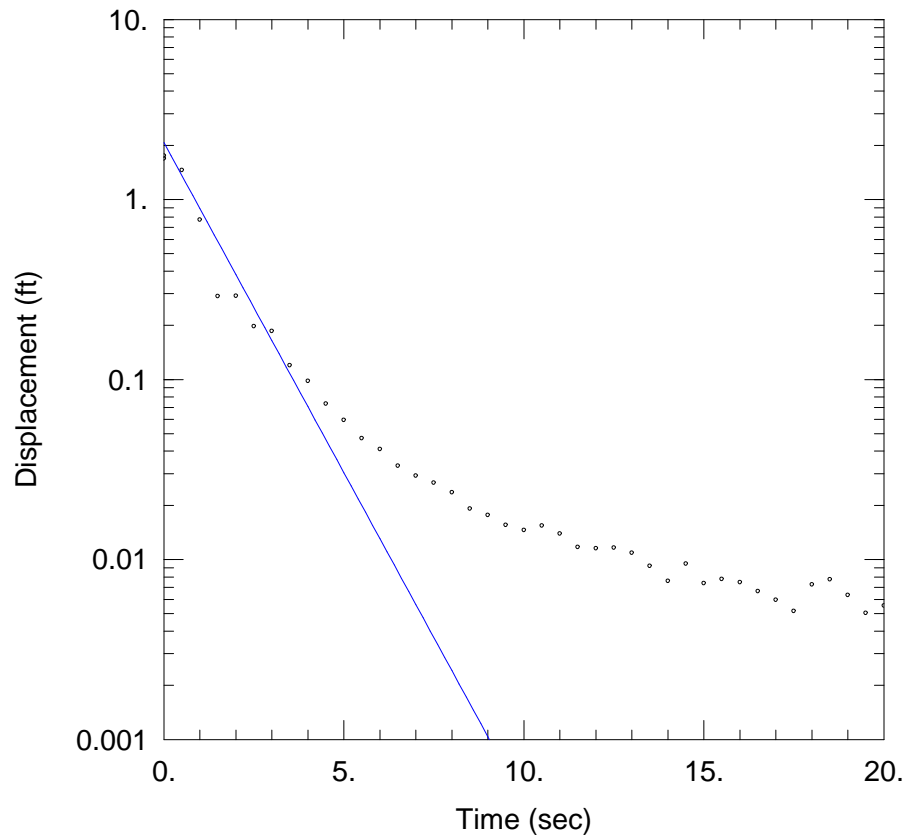
Total Well Penetration Depth: 8.2 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 38.8 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW18-50 FALLING HEAD TEST 6

Data Set: N:\...\709-MW18-50-FH6.aqt

Date: 05/13/13

Time: 09:22:04

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW18-50

Test Date: February 11, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.06274 cm/sec

y0 = 2.071 ft

AQUIFER DATA

Saturated Thickness: 8.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW18-50)

Initial Displacement: 1.688 ft

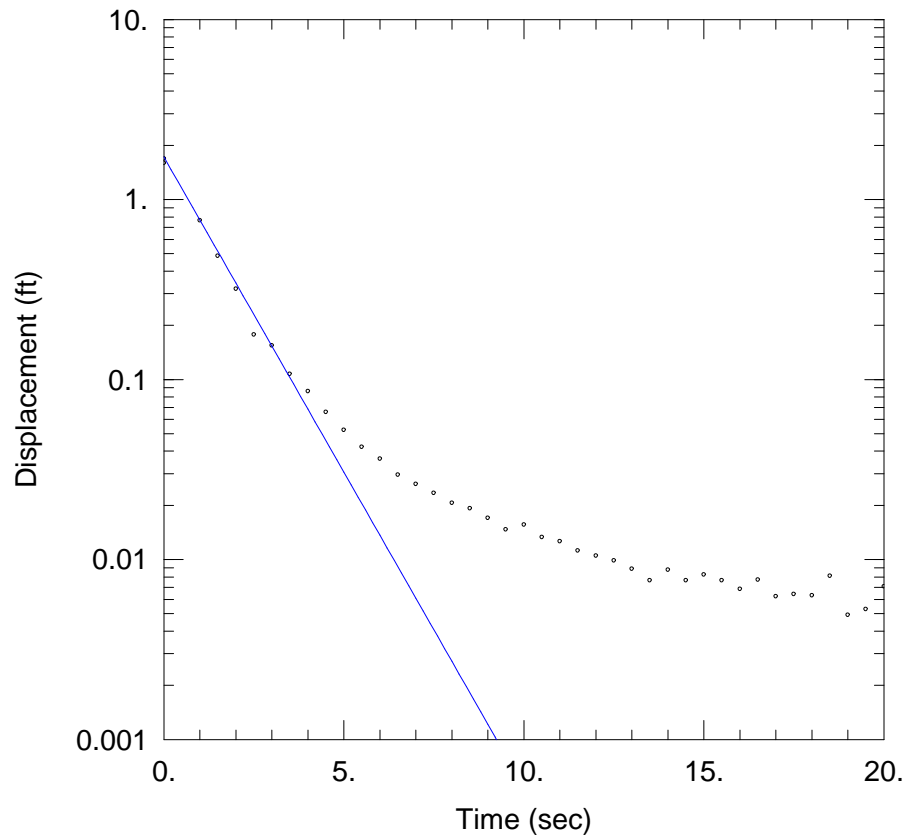
Total Well Penetration Depth: 8.2 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 38.8 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW18-50 FALLING HEAD TEST 7

Data Set: N:\...\709-MW18-50-FH7.aqt

Date: 05/13/13

Time: 09:21:51

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW18-50

Test Date: February 11, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.05991 cm/sec

y0 = 1.722 ft

AQUIFER DATA

Saturated Thickness: 8.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW18-50)

Initial Displacement: 1.688 ft

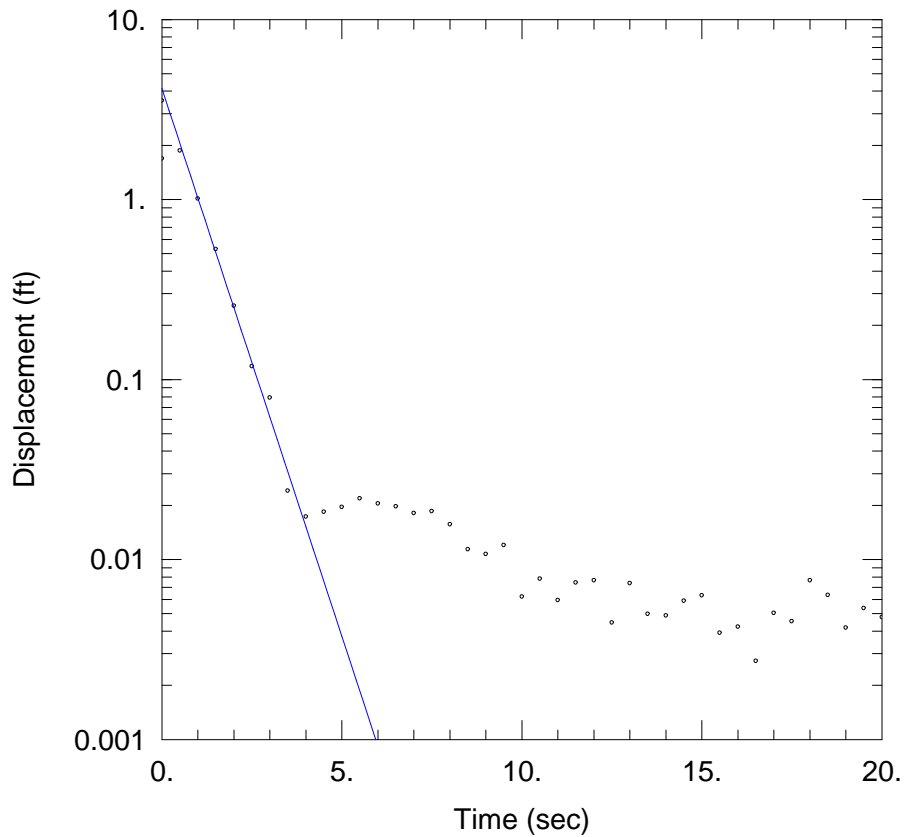
Total Well Penetration Depth: 8.2 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 38.8 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW18-50 RISING HEAD TEST 1

Data Set: N:\...\709-MW18-50-RH1.aqt

Date: 05/13/13

Time: 09:30:03

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW18-50

Test Date: February 11, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.1041 cm/sec

y0 = 4.132 ft

AQUIFER DATA

Saturated Thickness: 8.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW18-50)

Initial Displacement: 1.688 ft

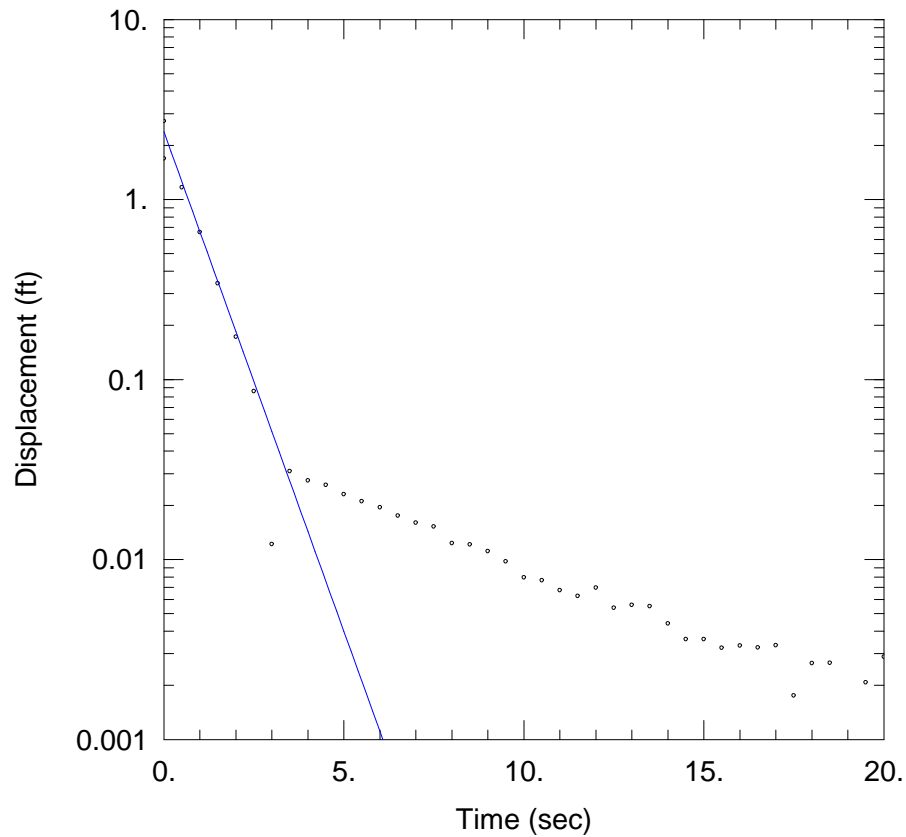
Total Well Penetration Depth: 8.2 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 38.8 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW18-50 RISING HEAD TEST 2

Data Set: N:\...\709-MW18-50-RH2.aqt

Date: 05/13/13

Time: 09:29:51

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW18-50

Test Date: February 11, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.09496 cm/sec

y0 = 2.378 ft

AQUIFER DATA

Saturated Thickness: 8.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW18-50)

Initial Displacement: 1.688 ft

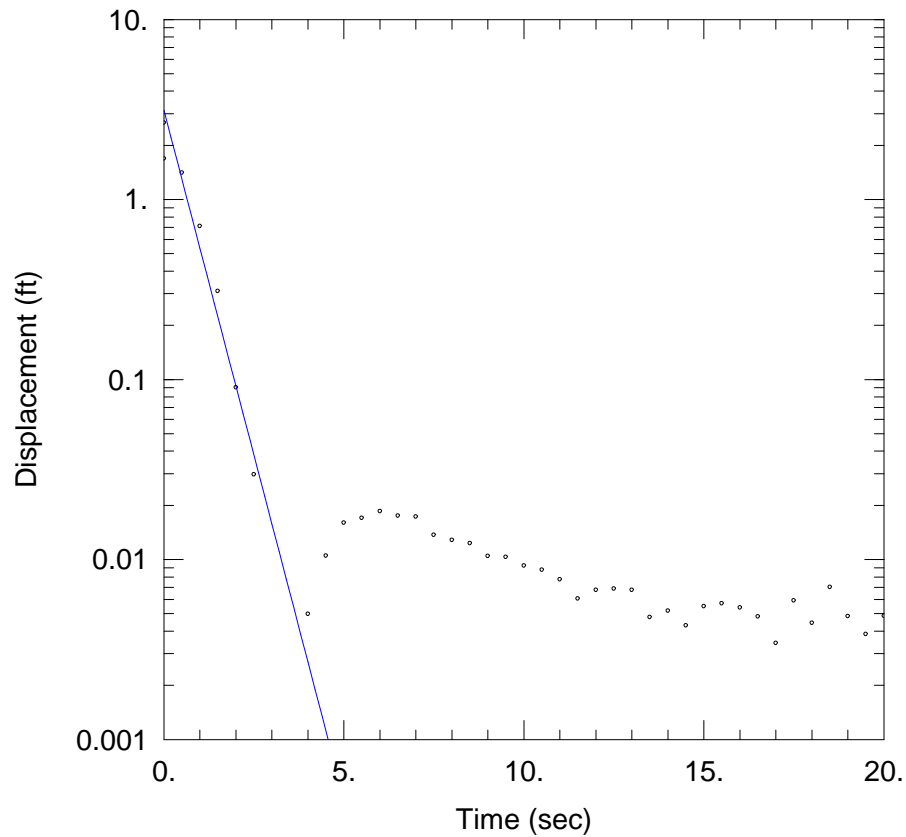
Total Well Penetration Depth: 8.2 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 38.8 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW18-50 RISING HEAD TEST 3

Data Set: N:\...\709-MW18-50-RH3.aqt

Date: 05/13/13

Time: 09:29:39

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW18-50

Test Date: February 11, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.1311 cm/sec

y0 = 3.134 ft

AQUIFER DATA

Saturated Thickness: 8.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW18-50)

Initial Displacement: 1.688 ft

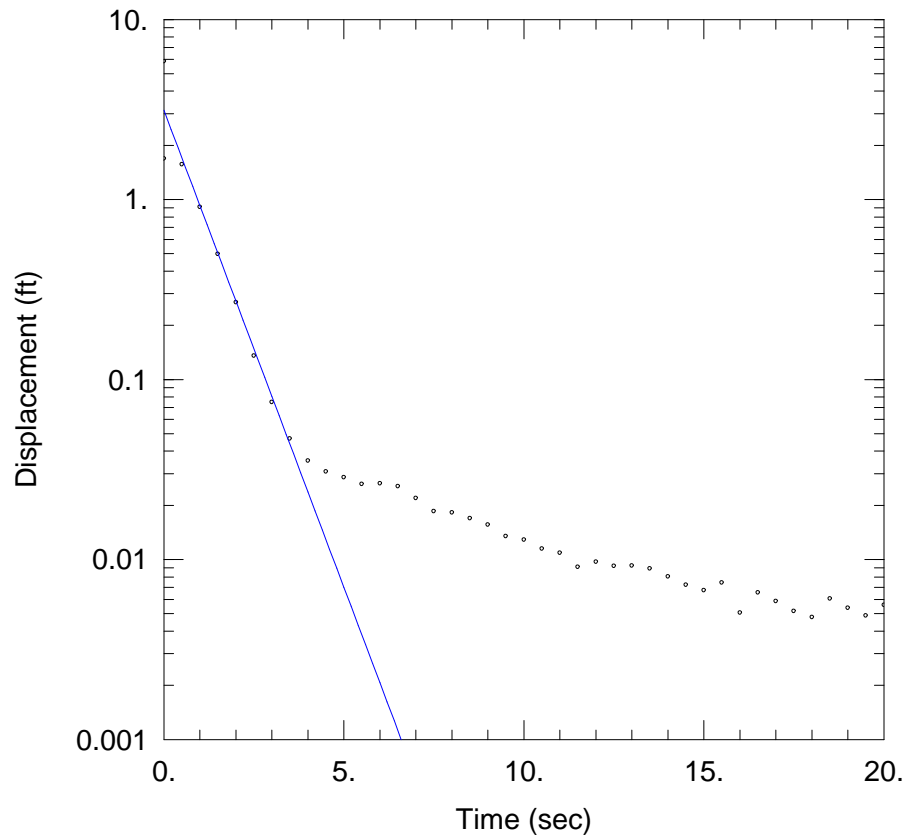
Total Well Penetration Depth: 8.2 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 38.8 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW18-50 RISING HEAD TEST 4

Data Set: N:\...\709-MW18-50-RH4.aqt

Date: 05/13/13

Time: 09:29:28

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW18-50

Test Date: February 11, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.09068 cm/sec

y0 = 3.134 ft

AQUIFER DATA

Saturated Thickness: 8.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW18-50)

Initial Displacement: 1.688 ft

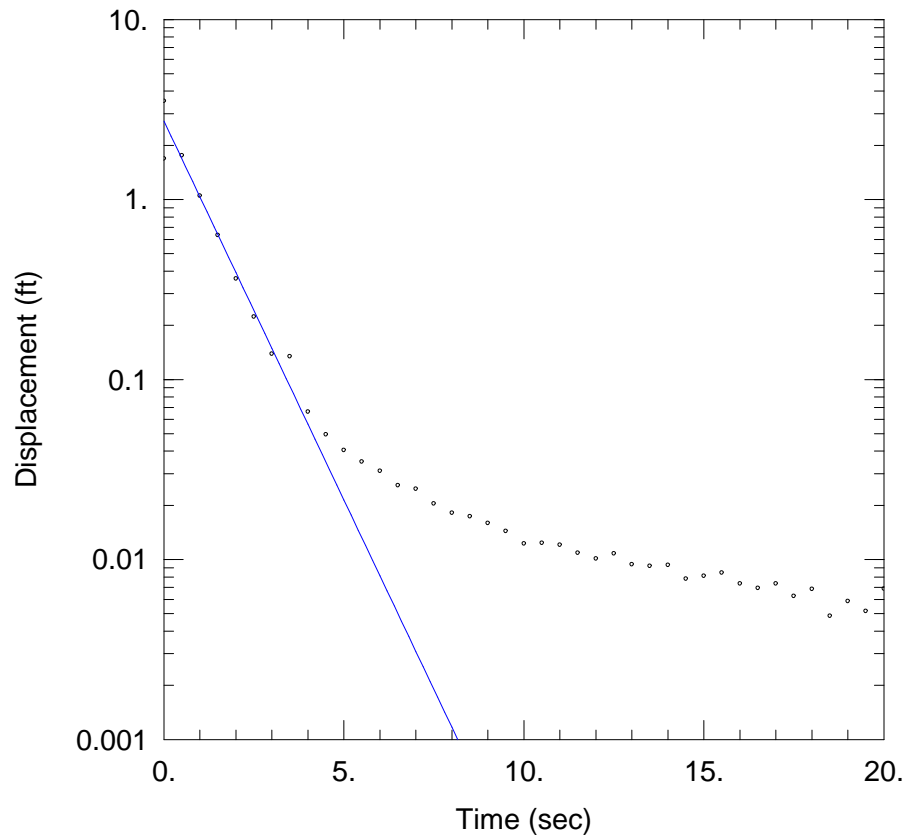
Total Well Penetration Depth: 8.2 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 38.8 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW18-50 RISING HEAD TEST 5

Data Set: N:\...\709-MW18-50-RH5.aqt

Date: 05/13/13

Time: 09:29:16

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW18-50

Test Date: February 11, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.07203 cm/sec

y0 = 2.73 ft

AQUIFER DATA

Saturated Thickness: 8.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW18-50)

Initial Displacement: 1.688 ft

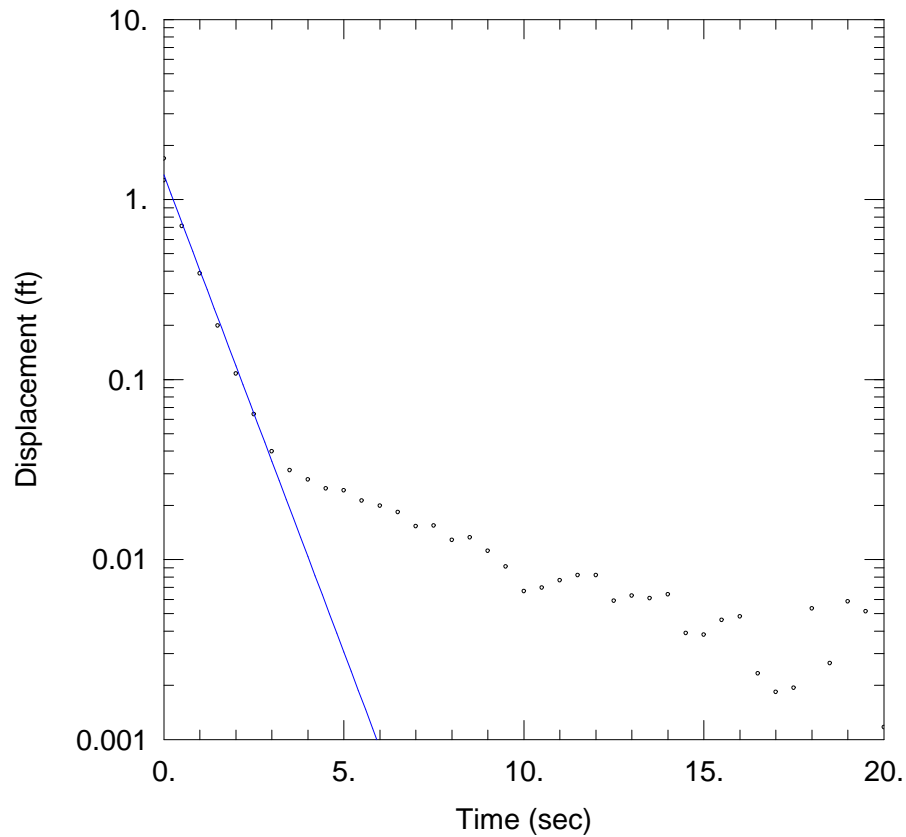
Total Well Penetration Depth: 8.2 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 38.8 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW18-50 RISING HEAD TEST 6

Data Set: N:\...\709-MW18-50-RH6.aqt

Date: 05/13/13

Time: 09:29:04

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW18-50

Test Date: February 11, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.09068 cm/sec

y0 = 1.368 ft

AQUIFER DATA

Saturated Thickness: 8.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW18-50)

Initial Displacement: 1.688 ft

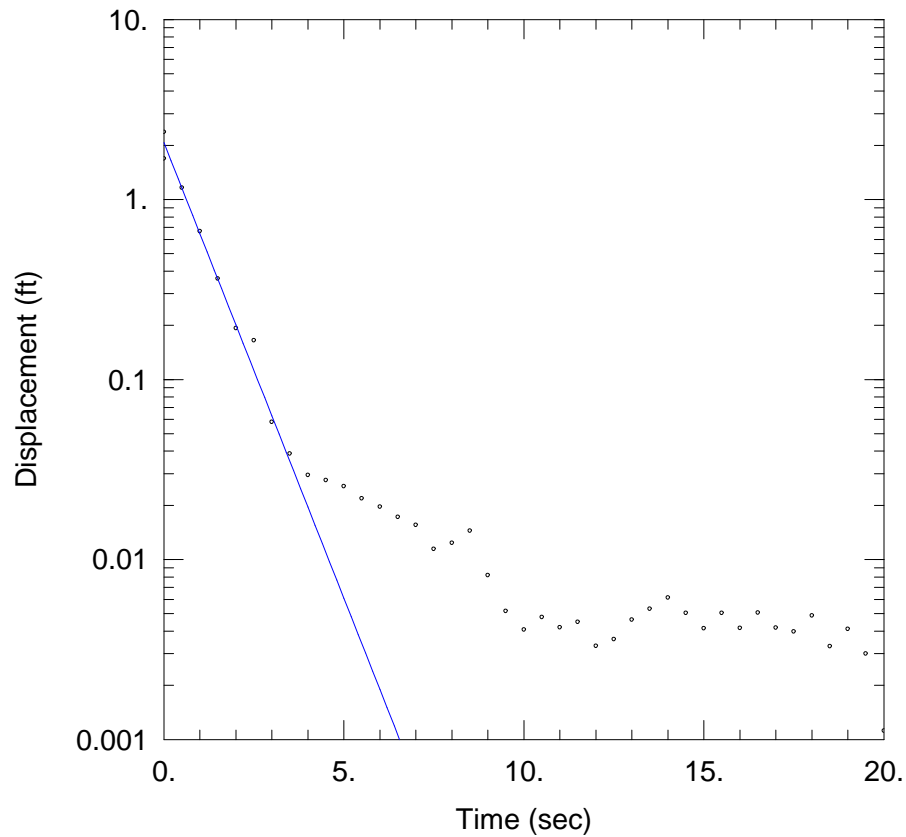
Total Well Penetration Depth: 8.2 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 38.8 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW18-50 RISING HEAD TEST 7

Data Set: N:\...\709-MW18-50-RH7.aqt

Date: 05/13/13

Time: 09:28:51

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW18-50

Test Date: February 11, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0866 cm/sec

y0 = 2.071 ft

AQUIFER DATA

Saturated Thickness: 8.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW18-50)

Initial Displacement: 1.688 ft

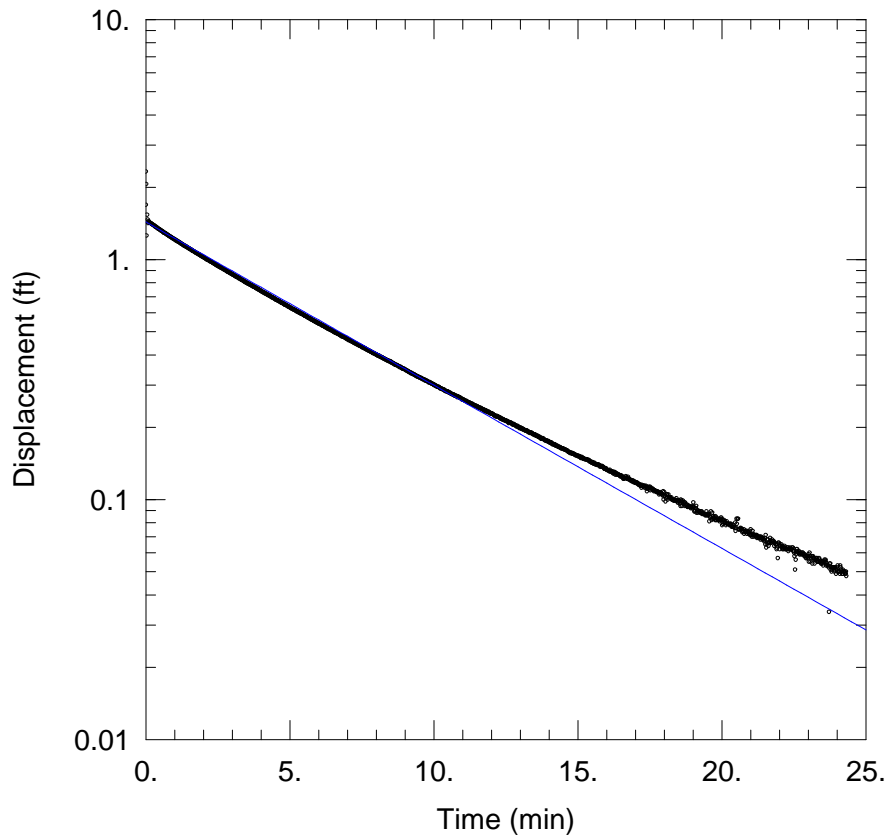
Total Well Penetration Depth: 8.2 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 38.8 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



709-MW20-50 FALLING HEAD TEST 1

Data Set: N:\...\709-MW20-50-FH1.aqt

Date: 05/09/13

Time: 14:45:46

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW20-50

Test Date: February 20, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0001657 cm/sec

y0 = 1.433 ft

AQUIFER DATA

Saturated Thickness: 11.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW20-50)

Initial Displacement: 1.688 ft

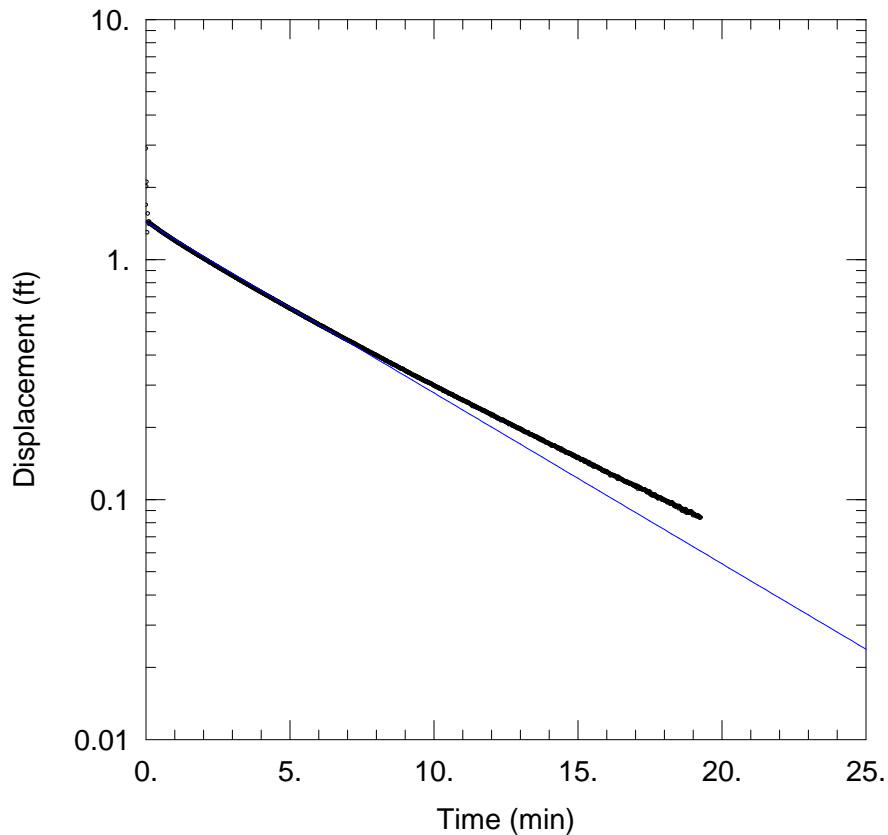
Total Well Penetration Depth: 10. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 38.83 ft

Screen Length: 5. ft

Well Radius: 0.3438 ft



709-MW20-50 FALLING HEAD TEST 2

Data Set: N:\...\709-MW20-50-FH2.aqt

Date: 05/09/13

Time: 14:45:34

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW20-50

Test Date: February 20, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0001735 cm/sec

y0 = 1.433 ft

AQUIFER DATA

Saturated Thickness: 11.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW20-50)

Initial Displacement: 1.688 ft

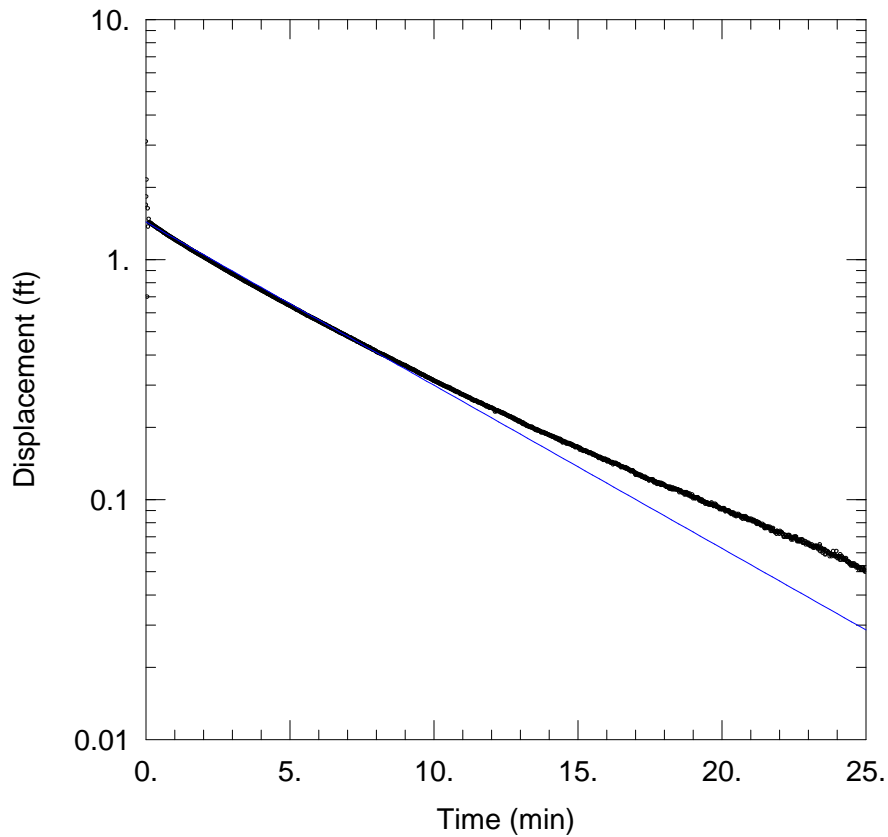
Total Well Penetration Depth: 10. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 38.83 ft

Screen Length: 5. ft

Well Radius: 0.3438 ft



709-MW20-50 FALLING HEAD TEST 3

Data Set: N:\...\709-MW20-50-FH3.aqt

Date: 05/09/13

Time: 14:45:21

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW20-50

Test Date: February 20, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0001657 cm/sec

y0 = 1.433 ft

AQUIFER DATA

Saturated Thickness: 11.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW20-50)

Initial Displacement: 1.688 ft

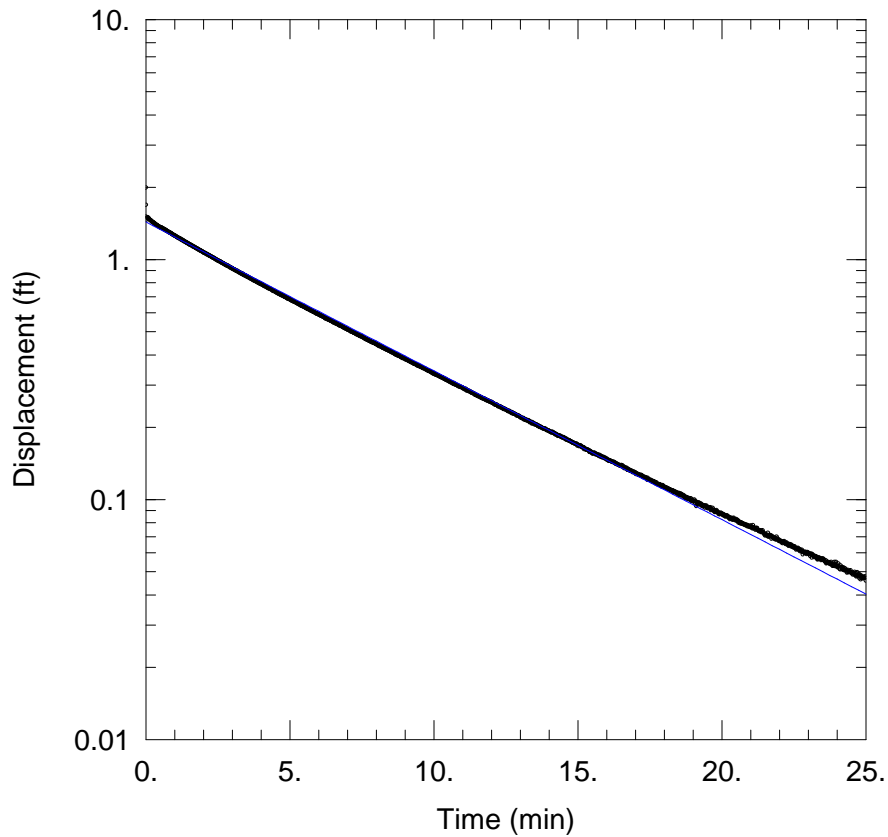
Total Well Penetration Depth: 10. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 38.83 ft

Screen Length: 5. ft

Well Radius: 0.3438 ft



709-MW20-50 RISING HEAD TEST 1

Data Set: N:\...\709-MW20-50-RH1.aqt

Date: 05/09/13

Time: 14:45:09

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW20-50

Test Date: February 20, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0001511 cm/sec

y0 = 1.433 ft

AQUIFER DATA

Saturated Thickness: 11.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW20-50)

Initial Displacement: 1.688 ft

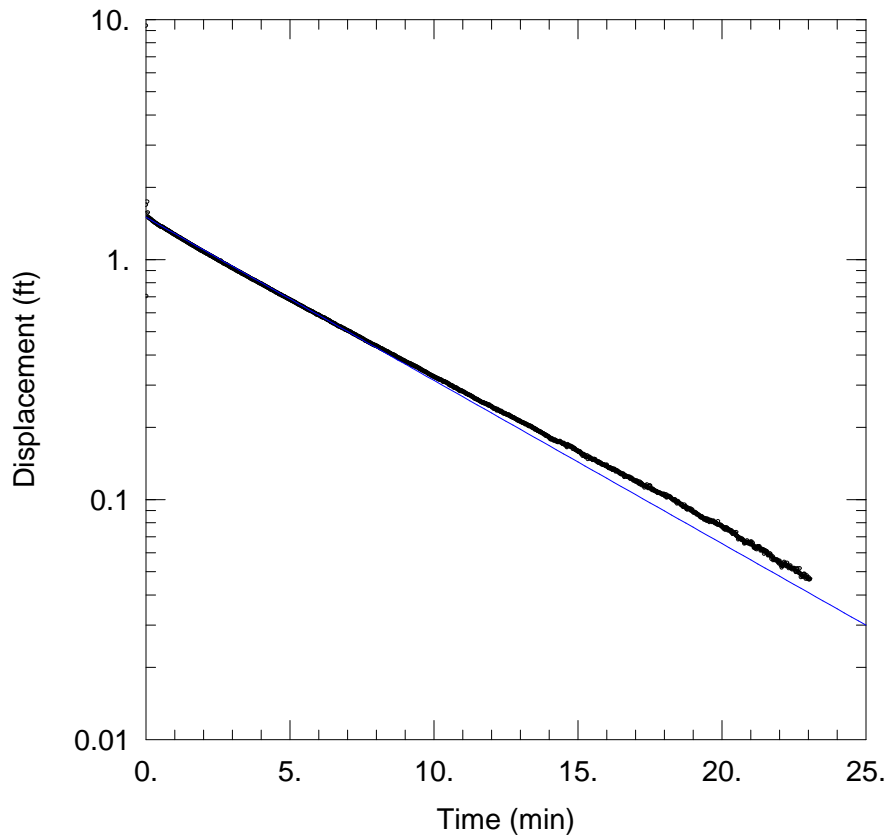
Total Well Penetration Depth: 10. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 38.83 ft

Screen Length: 5. ft

Well Radius: 0.3438 ft



709-MW20-50 RISING HEAD TEST 2

Data Set: N:\...\709-MW20-50-RH2.aqt

Date: 05/09/13

Time: 14:44:58

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW20-50

Test Date: February 20, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0001657 cm/sec

y0 = 1.5 ft

AQUIFER DATA

Saturated Thickness: 11.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW20-50)

Initial Displacement: 1.688 ft

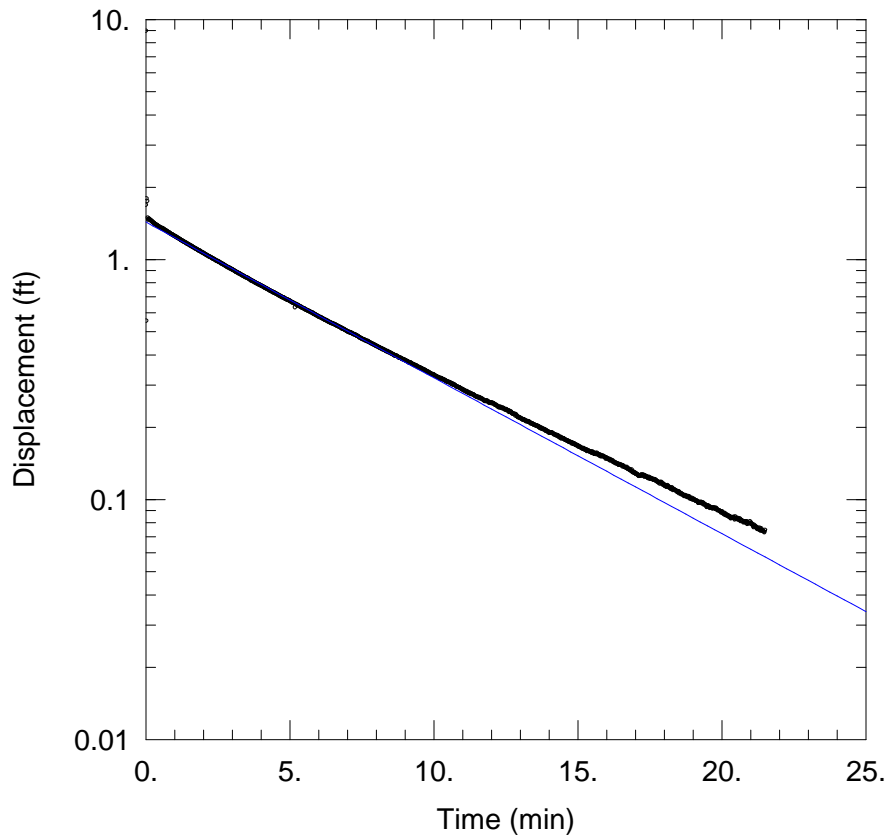
Total Well Penetration Depth: 10. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 38.83 ft

Screen Length: 5. ft

Well Radius: 0.3438 ft



709-MW20-50 RISING HEAD TEST 3

Data Set: N:\...\709-MW20-50-RH3.aqt

Date: 05/09/13

Time: 14:44:45

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW20-50

Test Date: February 20, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0001583 cm/sec

y0 = 1.433 ft

AQUIFER DATA

Saturated Thickness: 11.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW20-50)

Initial Displacement: 1.688 ft

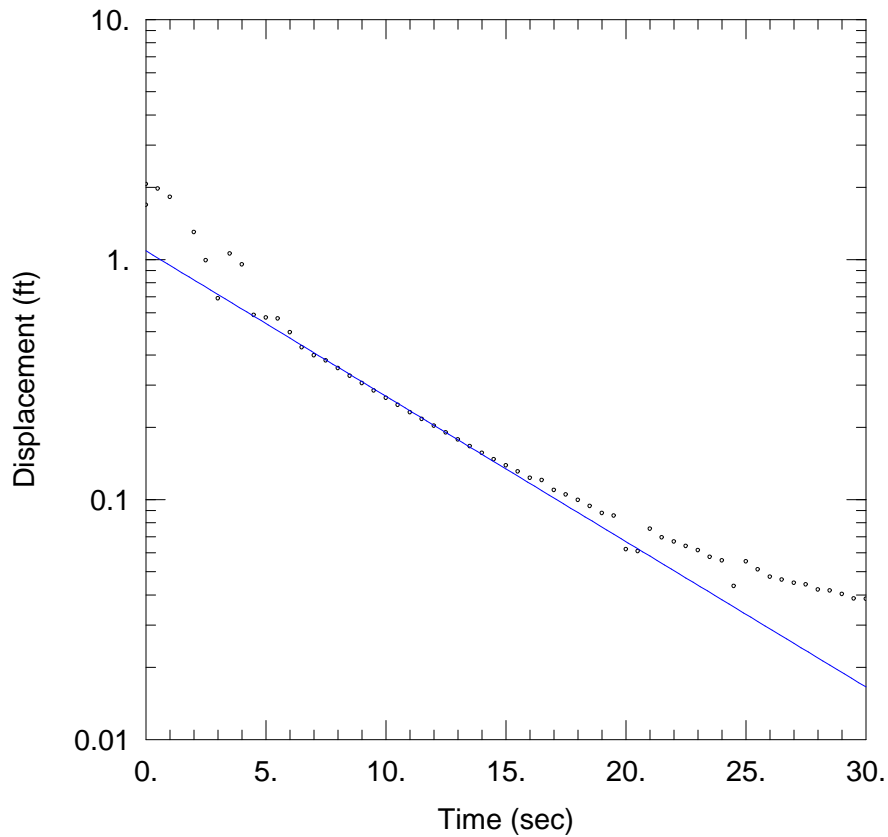
Total Well Penetration Depth: 10. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 38.83 ft

Screen Length: 5. ft

Well Radius: 0.3438 ft



709-MW20-75 FALLING HEAD TEST 1

Data Set: N:\...\709-MW20-75-FH1.aqt

Date: 05/08/13

Time: 16:18:37

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW20-75

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01437 cm/sec

y0 = 1.087 ft

AQUIFER DATA

Saturated Thickness: 5.89 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW20-75)

Initial Displacement: 1.688 ft

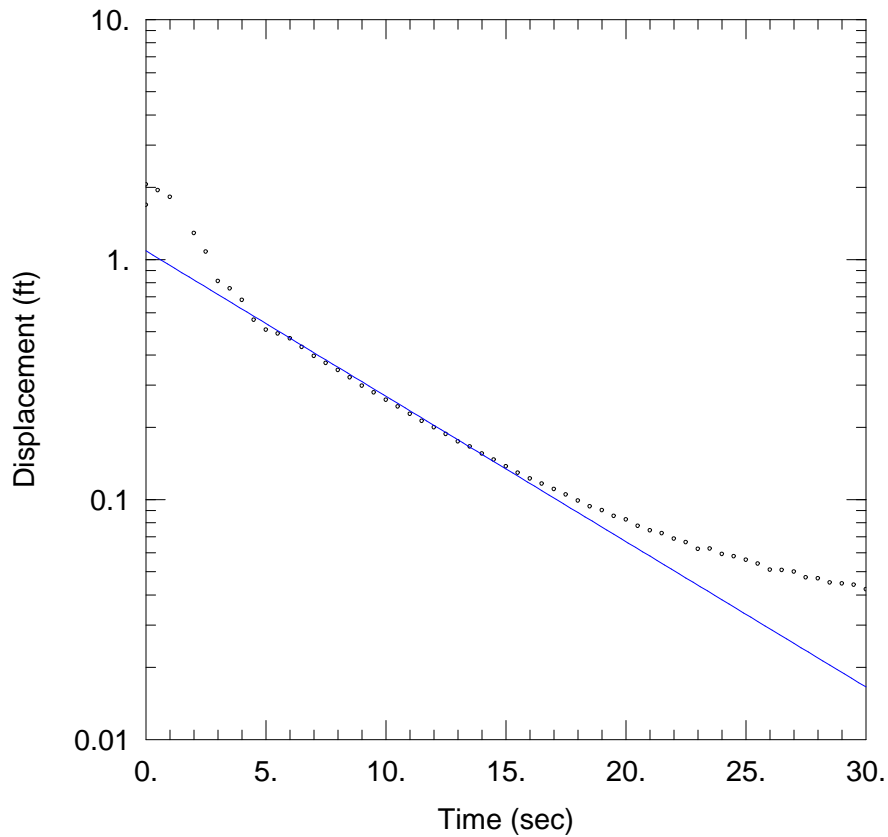
Total Well Penetration Depth: 5.89 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 65.31 ft

Screen Length: 3.31 ft

Well Radius: 0.25 ft



709-MW20-75 FALLING HEAD TEST 2

Data Set: N:\...\709-MW20-75-FH2.aqt

Date: 05/08/13

Time: 16:18:24

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW20-75

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01437 cm/sec

y0 = 1.087 ft

AQUIFER DATA

Saturated Thickness: 5.89 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW20-75)

Initial Displacement: 1.688 ft

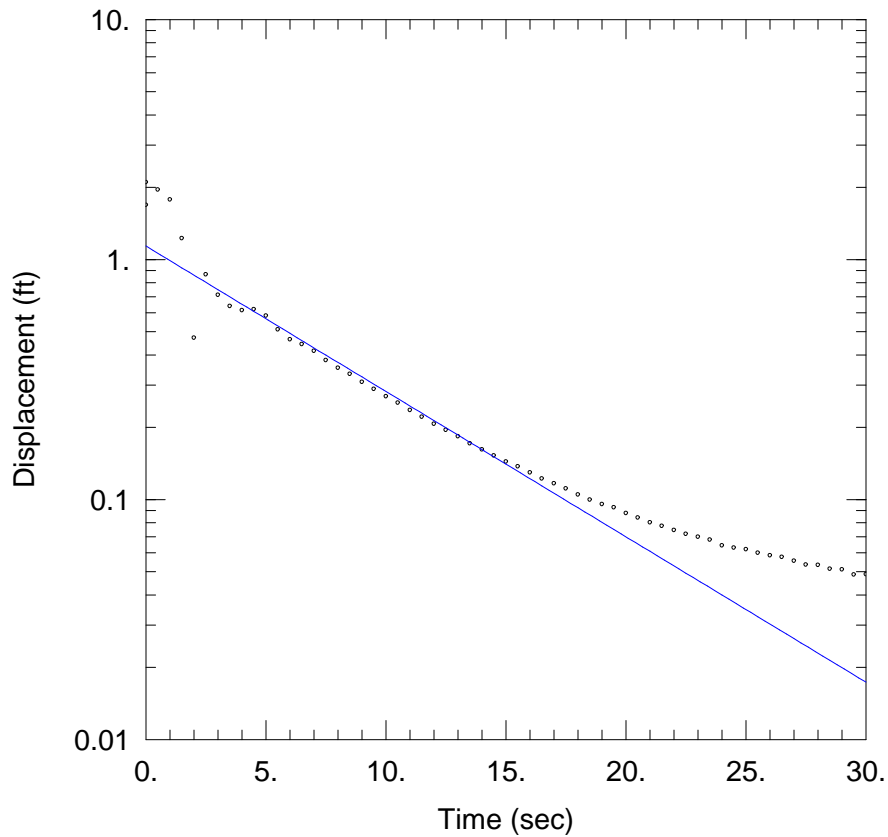
Total Well Penetration Depth: 5.89 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 65.31 ft

Screen Length: 3.31 ft

Well Radius: 0.25 ft



709-MW20-75 FALLING HEAD TEST 3

Data Set: N:\...\709-MW20-75-FH3.aqt

Date: 05/08/13

Time: 16:18:11

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW20-75

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01437 cm/sec

y0 = 1.138 ft

AQUIFER DATA

Saturated Thickness: 5.89 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW20-75)

Initial Displacement: 1.688 ft

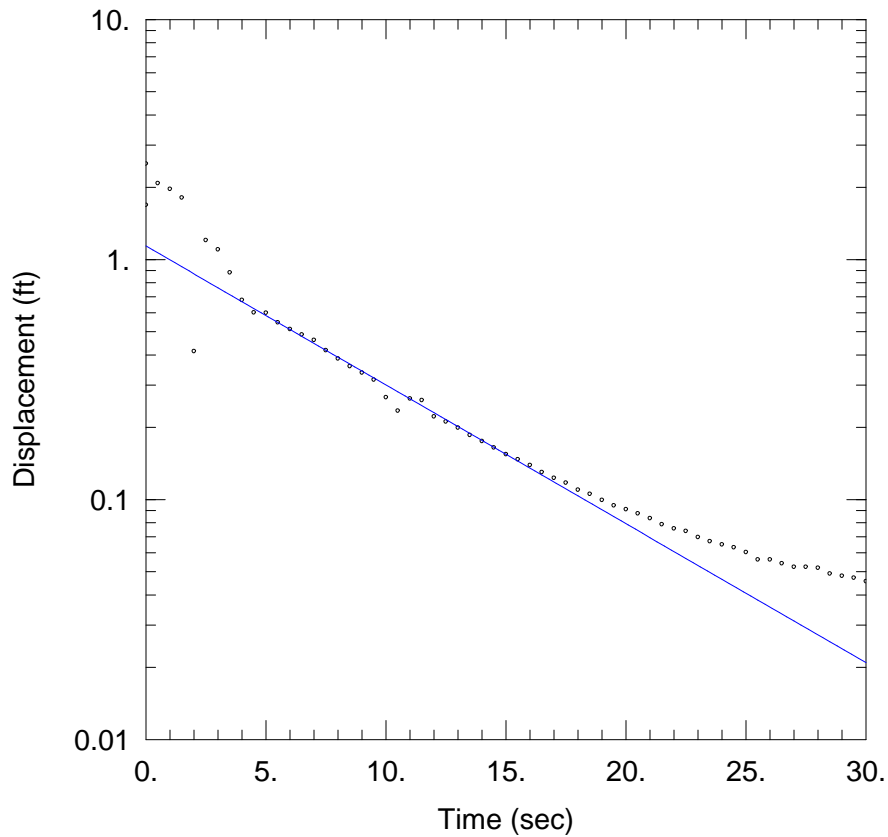
Total Well Penetration Depth: 5.89 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 65.31 ft

Screen Length: 3.31 ft

Well Radius: 0.25 ft



709-MW20-75 FALLING HEAD TEST 4

Data Set: N:\...\709-MW20-75-FH4.aqt

Date: 05/08/13

Time: 16:17:58

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW20-75

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01373 cm/sec

y0 = 1.138 ft

AQUIFER DATA

Saturated Thickness: 5.31 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW20-75)

Initial Displacement: 1.688 ft

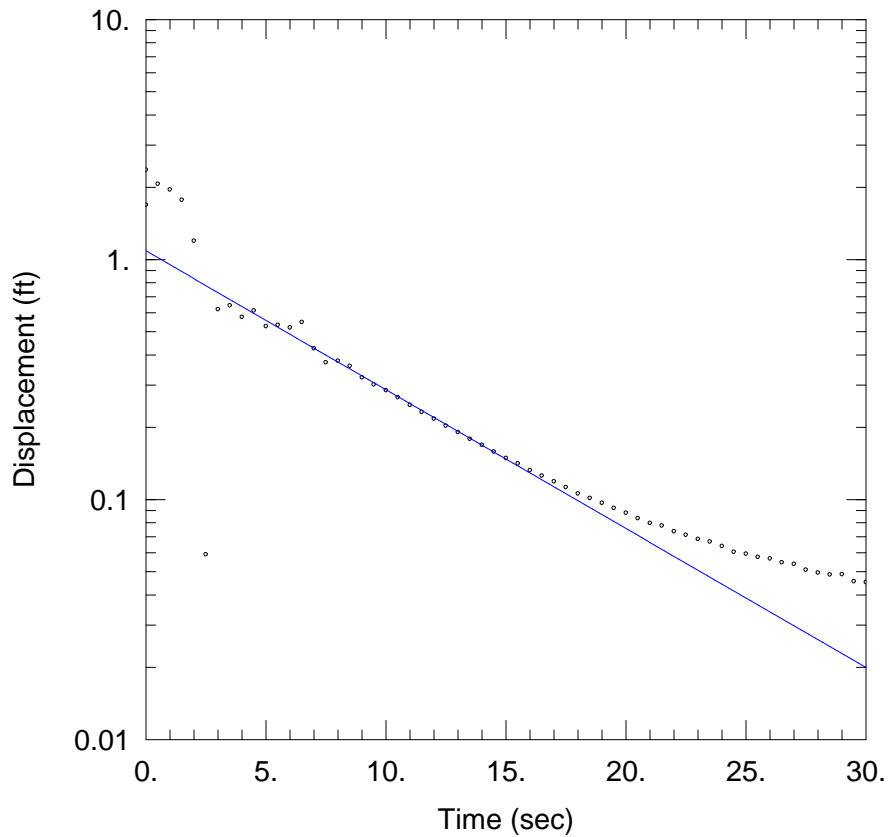
Total Well Penetration Depth: 5.89 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 65.31 ft

Screen Length: 3.31 ft

Well Radius: 0.25 ft



709-MW20-75 FALLING HEAD TEST 5

Data Set: N:\...\709-MW20-75-FH5.aqt

Date: 05/08/13

Time: 16:17:46

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW20-75

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01373 cm/sec

y0 = 1.087 ft

AQUIFER DATA

Saturated Thickness: 5.89 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW20-75)

Initial Displacement: 1.688 ft

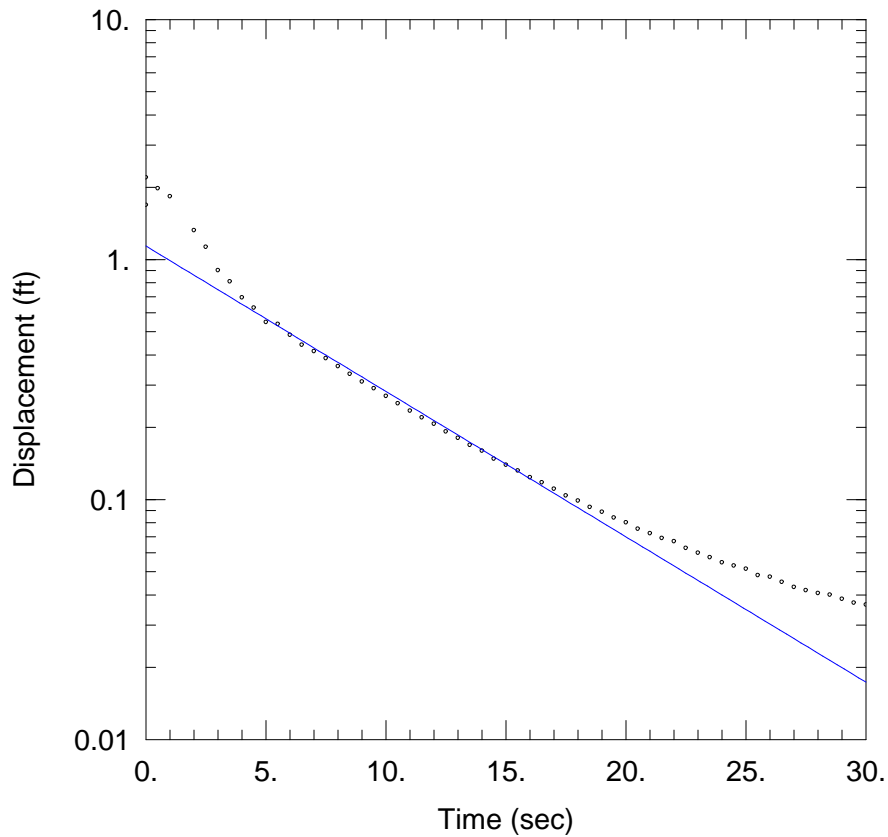
Total Well Penetration Depth: 5.89 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 65.31 ft

Screen Length: 3.31 ft

Well Radius: 0.25 ft



709-MW20-75 FALLING HEAD TEST 6

Data Set: N:\...\709-MW20-75-FH6.aqt

Date: 05/08/13

Time: 16:17:32

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW20-75

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.01437$ cm/sec

$y_0 = 1.138$ ft

AQUIFER DATA

Saturated Thickness: 5.89 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (709-MW20-75)

Initial Displacement: 1.688 ft

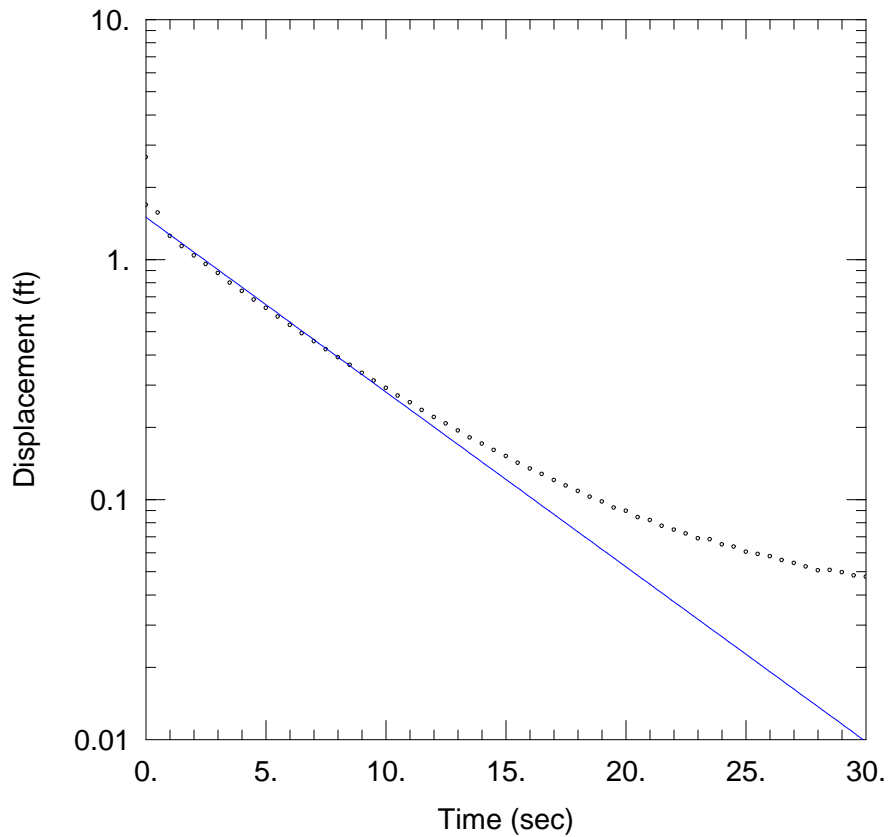
Total Well Penetration Depth: 5.89 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 65.31 ft

Screen Length: 3.31 ft

Well Radius: 0.25 ft



709-MW20-75 RISING HEAD TEST 1

Data Set: N:\...\709-MW20-75-RH1.aqt

Date: 05/08/13

Time: 16:24:02

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW20-75

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01728 cm/sec

y0 = 1.5 ft

AQUIFER DATA

Saturated Thickness: 5.89 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW20-75)

Initial Displacement: 1.688 ft

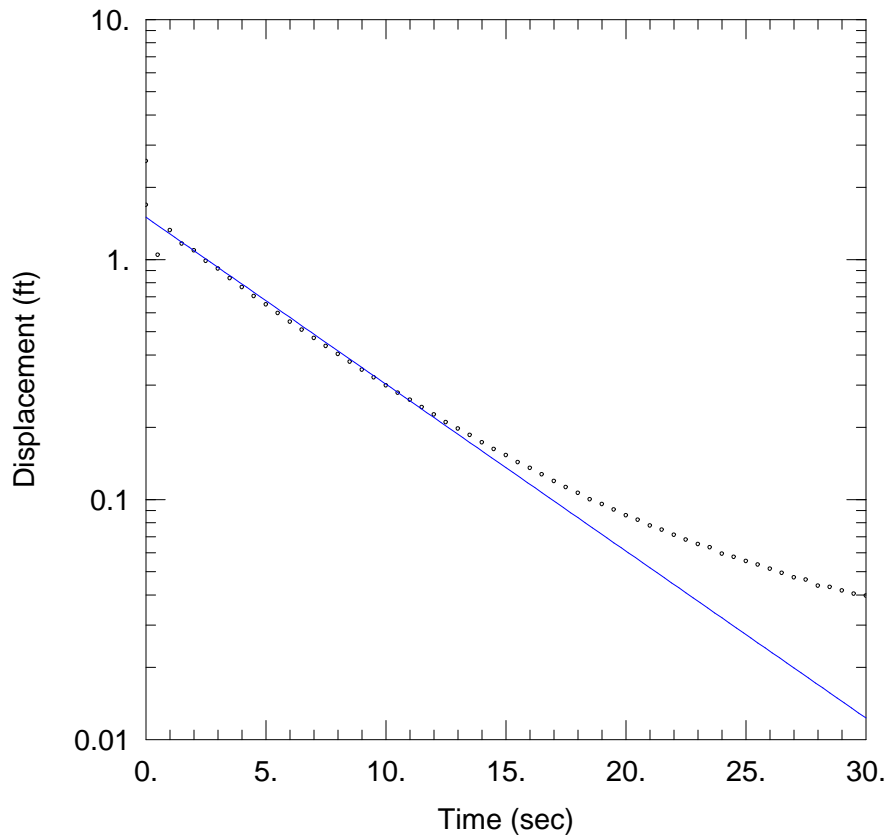
Total Well Penetration Depth: 5.89 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 65.31 ft

Screen Length: 3.31 ft

Well Radius: 0.25 ft



709-MW20-75 RISING HEAD TEST 2

Data Set: N:\...\709-MW20-75-RH2.aqt

Date: 05/08/13

Time: 16:23:49

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW20-75

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0165 cm/sec

y0 = 1.5 ft

AQUIFER DATA

Saturated Thickness: 5.89 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW20-75)

Initial Displacement: 1.688 ft

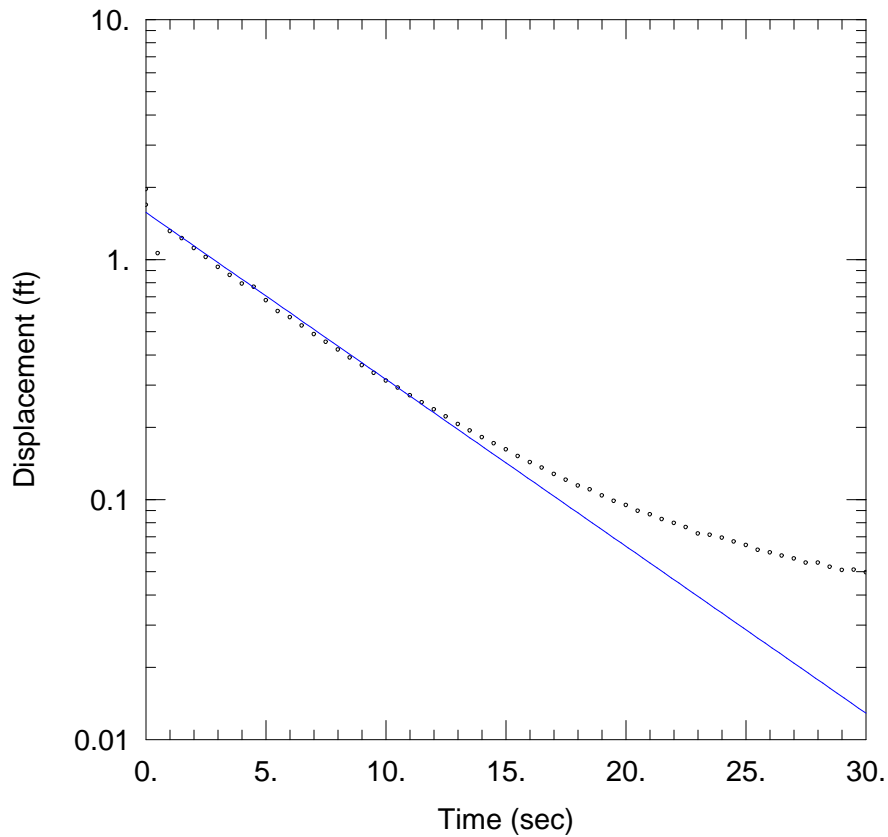
Total Well Penetration Depth: 5.89 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 65.31 ft

Screen Length: 3.31 ft

Well Radius: 0.25 ft



709-MW20-75 RISING HEAD TEST 3

Data Set: N:\...\709-MW20-75-RH3.aqt

Date: 05/08/13

Time: 16:23:36

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW20-75

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0165 cm/sec

y0 = 1.571 ft

AQUIFER DATA

Saturated Thickness: 5.89 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW20-75)

Initial Displacement: 1.688 ft

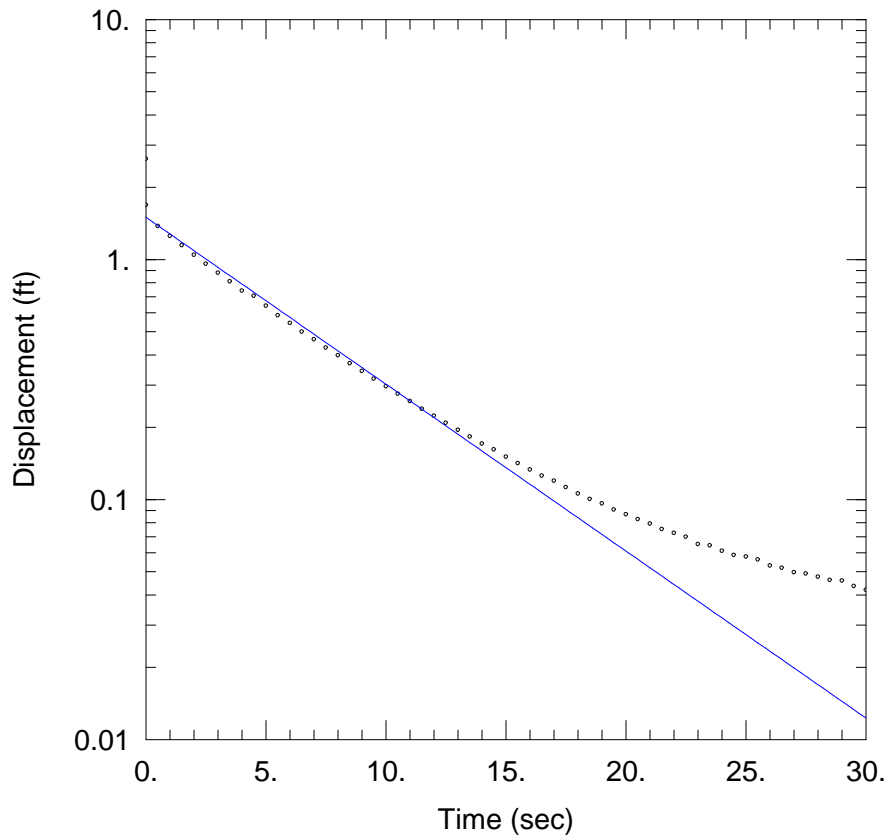
Total Well Penetration Depth: 5.89 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 65.31 ft

Screen Length: 3.31 ft

Well Radius: 0.25 ft



709-MW20-75 RISING HEAD TEST 4

Data Set: N:\...\709-MW20-75-RH4.aqt

Date: 05/08/13

Time: 16:23:23

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW20-75

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0165 cm/sec

y0 = 1.5 ft

AQUIFER DATA

Saturated Thickness: 5.89 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW20-75)

Initial Displacement: 1.688 ft

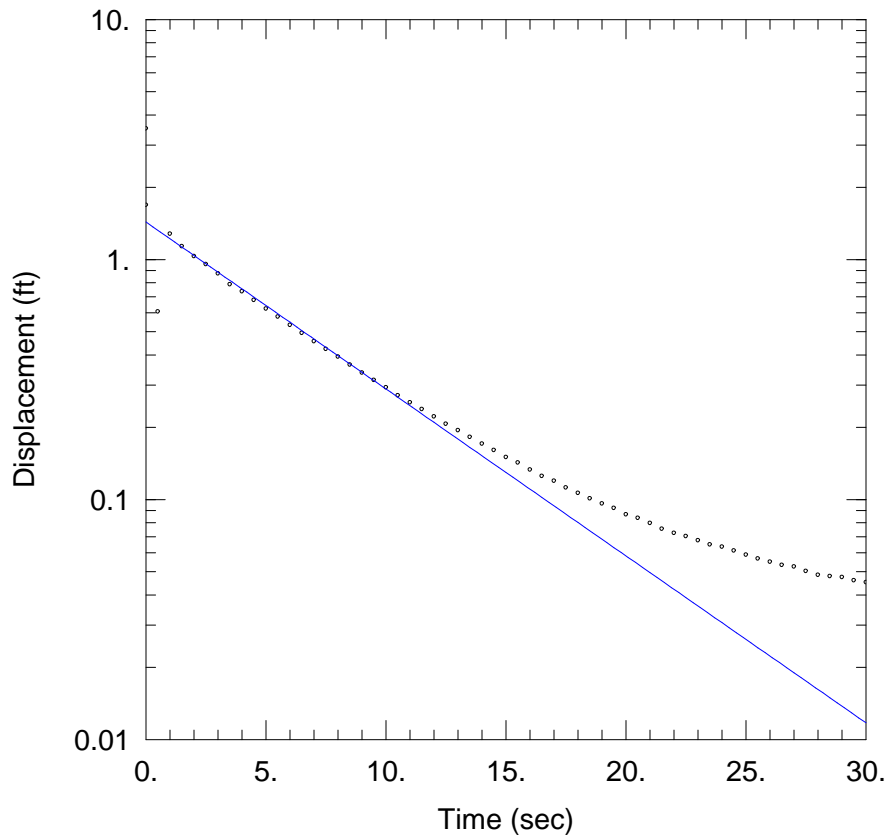
Total Well Penetration Depth: 5.89 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 65.31 ft

Screen Length: 3.31 ft

Well Radius: 0.25 ft



709-MW20-75 RISING HEAD TEST 5

Data Set: N:\...\709-MW20-75-RH5.aqt

Date: 05/08/13

Time: 16:23:10

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW20-75

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0165 cm/sec

y0 = 1.433 ft

AQUIFER DATA

Saturated Thickness: 5.89 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW20-75)

Initial Displacement: 1.688 ft

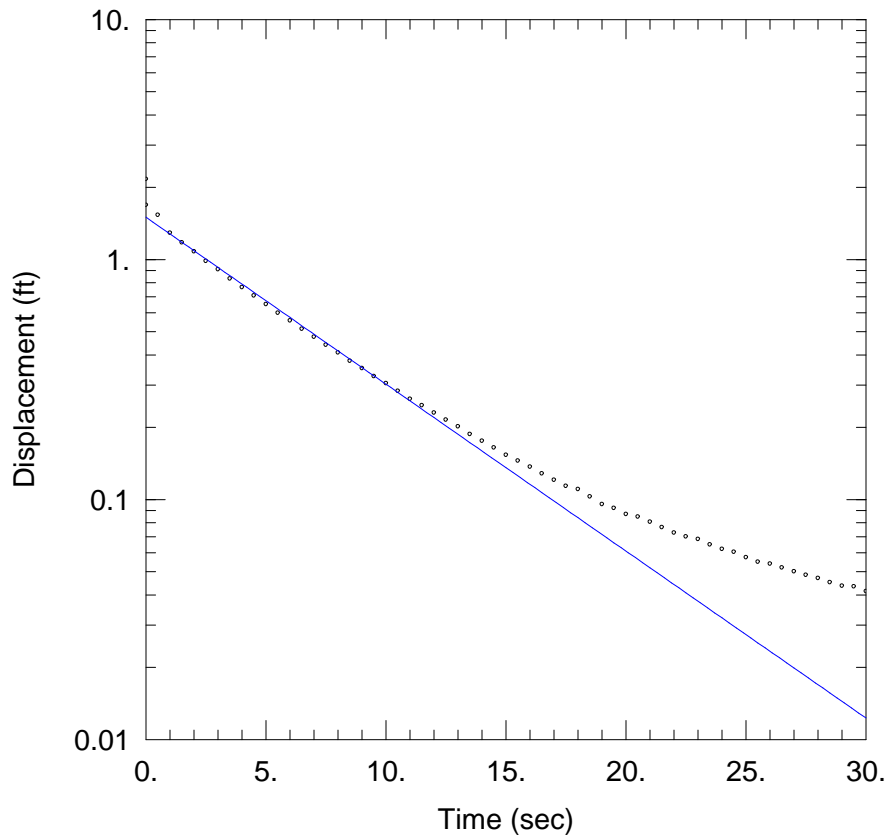
Total Well Penetration Depth: 5.89 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 65.31 ft

Screen Length: 3.31 ft

Well Radius: 0.25 ft



709-MW20-75 RISING HEAD TEST 6

Data Set: N:\...\709-MW20-75-RH6.aqt

Date: 05/08/13

Time: 16:22:56

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW20-75

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0165 cm/sec

y0 = 1.5 ft

AQUIFER DATA

Saturated Thickness: 5.89 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW20-75)

Initial Displacement: 1.688 ft

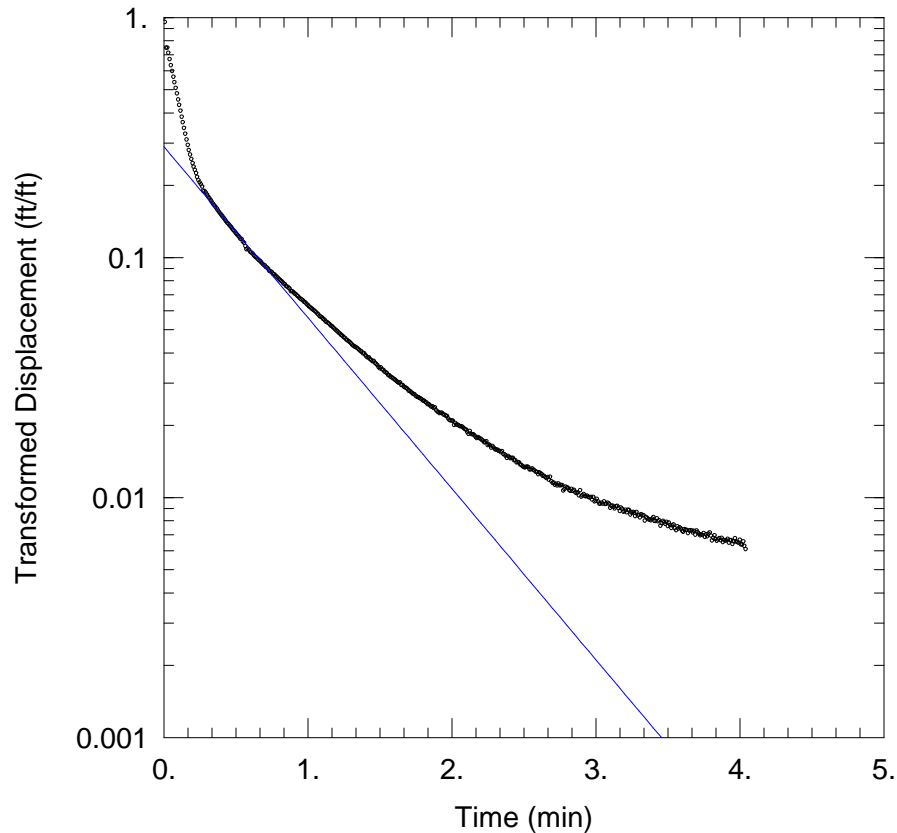
Total Well Penetration Depth: 5.89 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 65.31 ft

Screen Length: 3.31 ft

Well Radius: 0.25 ft



709-MW21-15 RISING HEAD TEST 1

Data Set: N:\...\709-MW21-15-RH1.aqt

Date: 05/08/13

Time: 16:43:55

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW21-15

Test Date: January 24, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.003371 cm/sec

y0 = 1.138 ft

AQUIFER DATA

Saturated Thickness: 10.29 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW21-15)

Initial Displacement: 3.375 ft

Total Well Penetration Depth: 8.49 ft

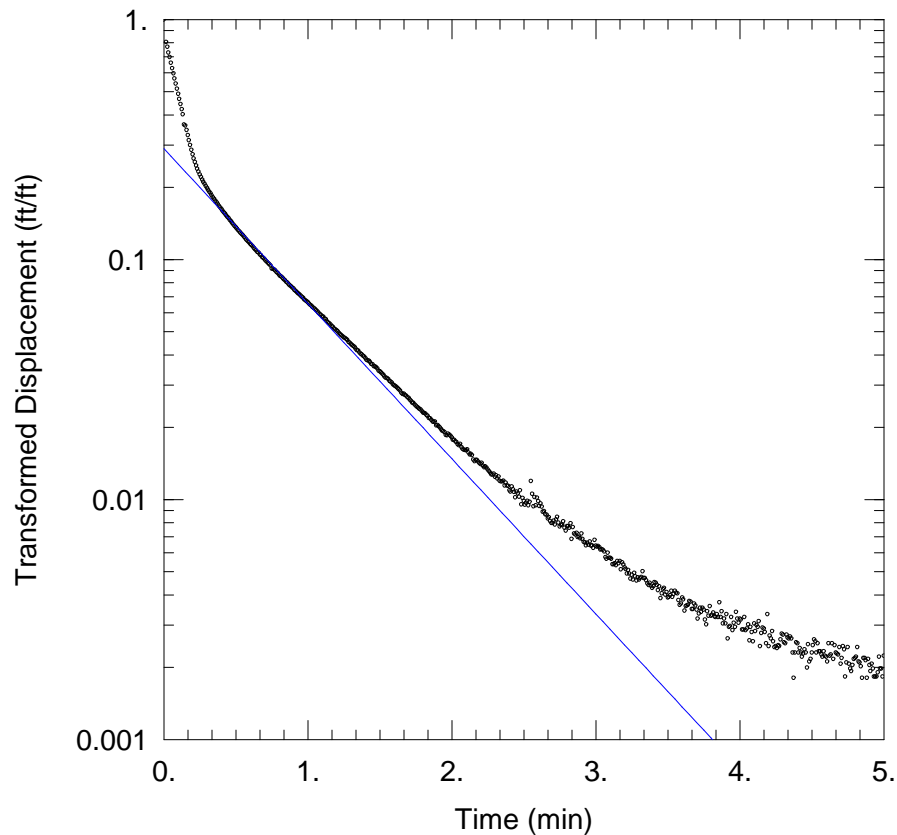
Casing Radius: 0.0835 ft

Static Water Column Height: 8.49 ft

Screen Length: 8.49 ft

Well Radius: 0.25 ft

Gravel Pack Porosity: 0.3



709-MW21-15 RISING HEAD TEST 2

Data Set: N:\...\709-MW21-15-RH2.aqt

Date: 05/08/13

Time: 16:43:43

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW21-15

Test Date: January 24, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.003057 cm/sec

y0 = 1.138 ft

AQUIFER DATA

Saturated Thickness: 10.29 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW21-15)

Initial Displacement: 3.375 ft

Total Well Penetration Depth: 8.49 ft

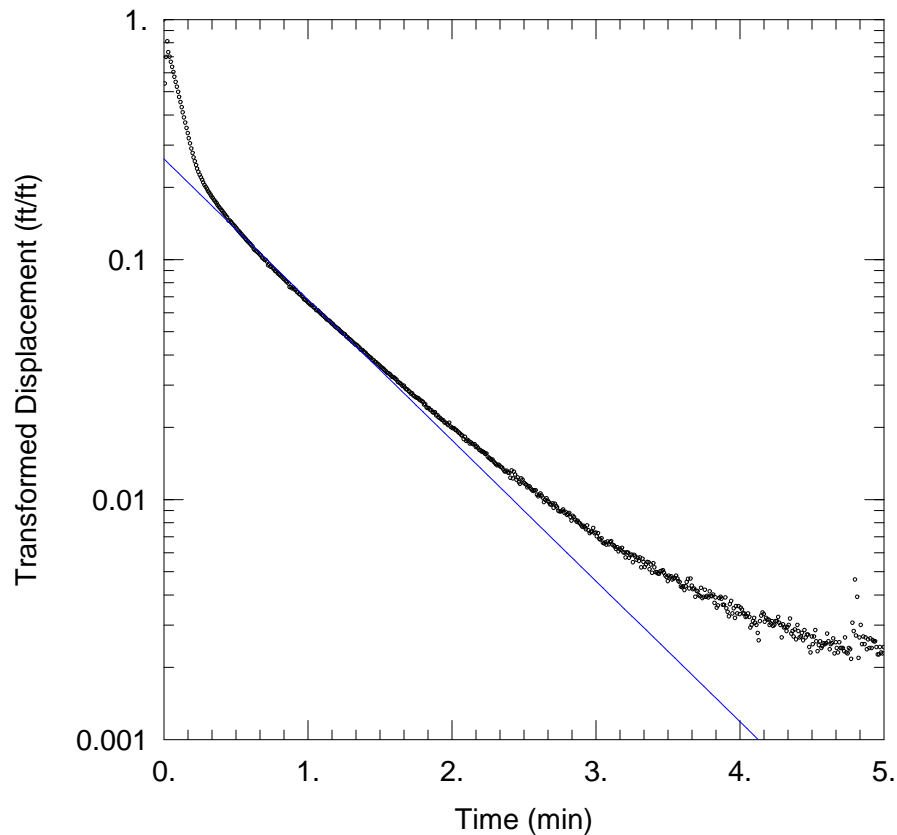
Casing Radius: 0.0835 ft

Static Water Column Height: 8.49 ft

Screen Length: 8.49 ft

Well Radius: 0.25 ft

Gravel Pack Porosity: 0.3



709-MW21-15 RISING HEAD TEST 3

Data Set: N:\...\709-MW21-15-RH3.aqt

Date: 05/08/13

Time: 16:43:30

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW21-15

Test Date: January 24, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.002773 cm/sec

y0 = 1.038 ft

AQUIFER DATA

Saturated Thickness: 10.29 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW21-15)

Initial Displacement: 3.375 ft

Total Well Penetration Depth: 8.49 ft

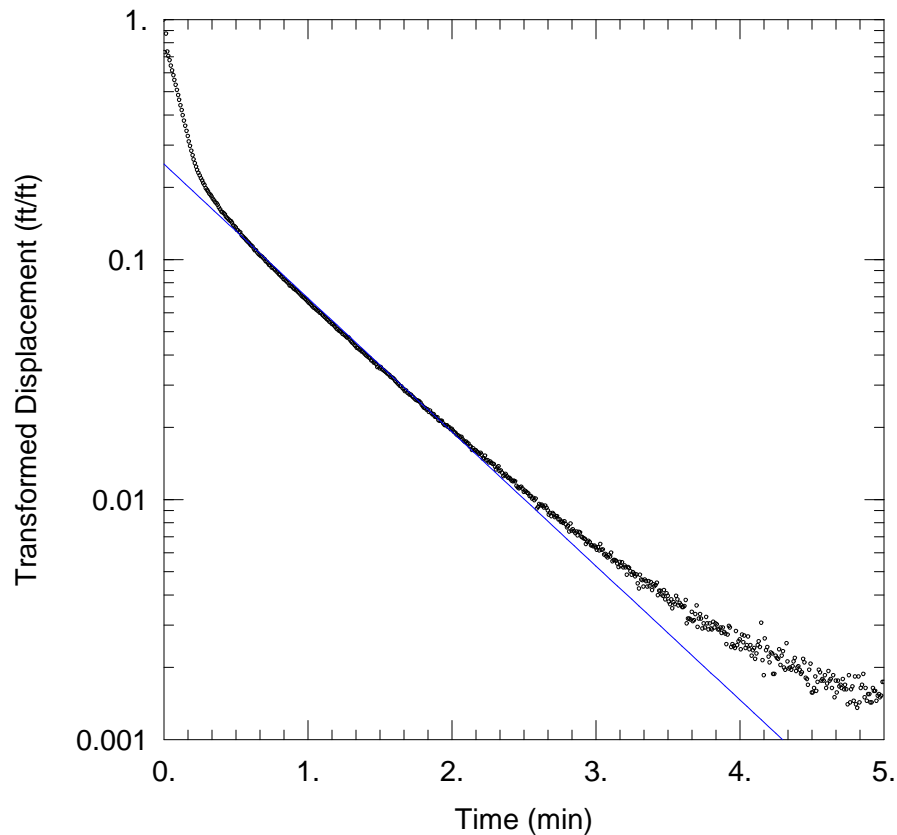
Casing Radius: 0.0835 ft

Static Water Column Height: 8.49 ft

Screen Length: 8.49 ft

Well Radius: 0.25 ft

Gravel Pack Porosity: 0.3



709-MW21-15 RISING HEAD TEST 4

Data Set: N:\...\709-MW21-15-RH4.aqt

Date: 05/08/13

Time: 16:43:17

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW21-15

Test Date: January 24, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.002641 cm/sec

y0 = 0.9911 ft

AQUIFER DATA

Saturated Thickness: 10.29 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW21-15)

Initial Displacement: 3.375 ft

Total Well Penetration Depth: 8.49 ft

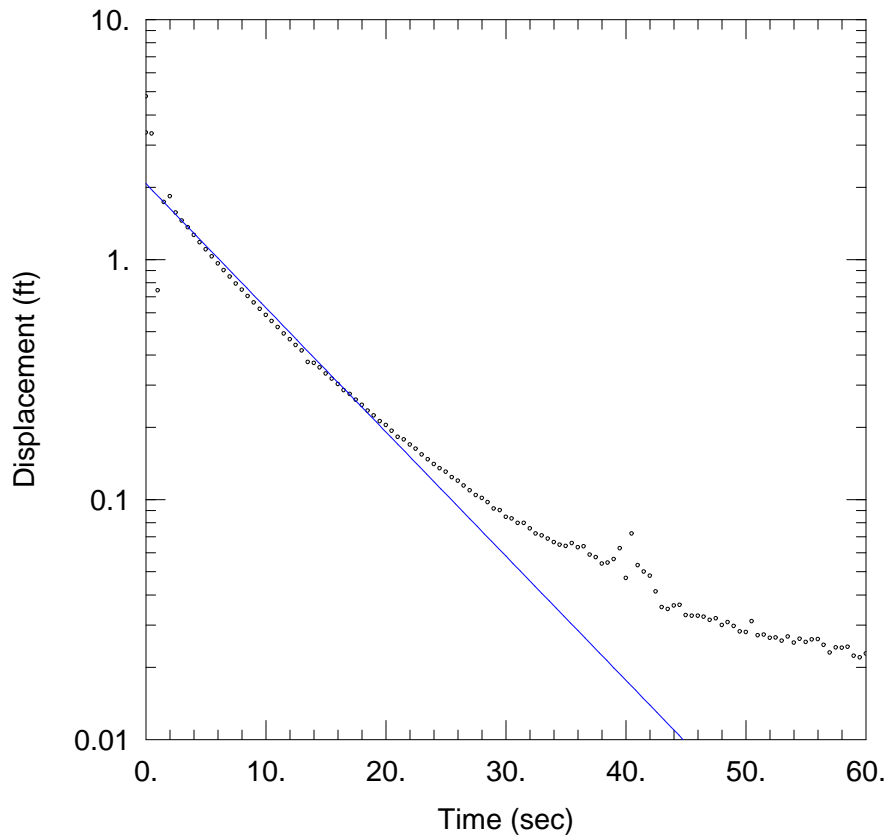
Casing Radius: 0.0835 ft

Static Water Column Height: 8.49 ft

Screen Length: 8.49 ft

Well Radius: 0.25 ft

Gravel Pack Porosity: 0.3



709-MW21-25 FALLING HEAD TEST 1

Data Set: N:\...\709-MW21-25-FH1.aqt

Date: 05/08/13

Time: 16:53:18

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW21-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.007898$ cm/sec

$y_0 = 2.071$ ft

AQUIFER DATA

Saturated Thickness: 9.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (709-MW21-25)

Initial Displacement: 3.375 ft

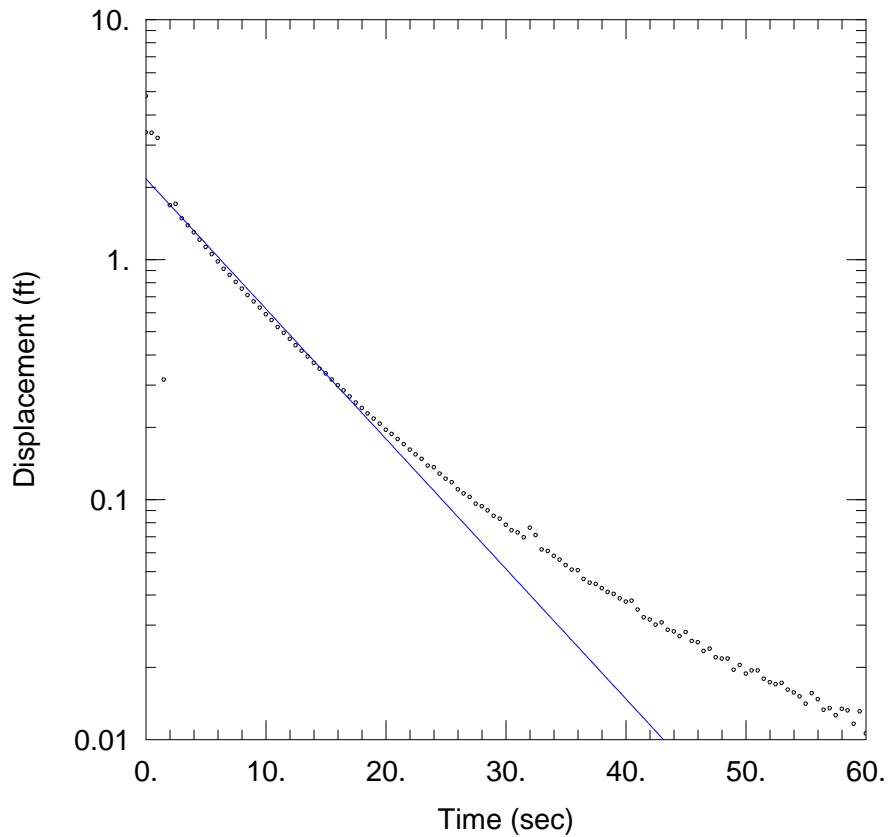
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.83 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW21-25 FALLING HEAD TEST 2

Data Set: N:\...\709-MW21-25-FH2.aqt

Date: 05/08/13

Time: 16:52:59

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW21-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.00827$ cm/sec

$y_0 = 2.168$ ft

AQUIFER DATA

Saturated Thickness: 9.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (709-MW21-25)

Initial Displacement: 3.375 ft

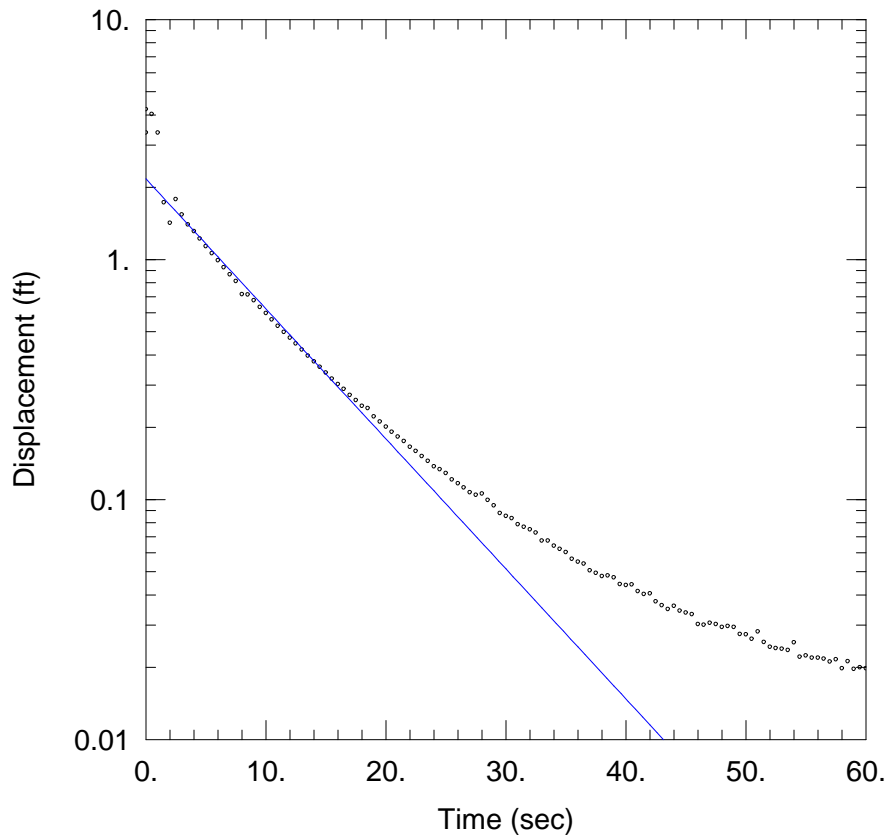
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.83 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW21-25 FALLING HEAD TEST 3

Data Set: N:\...\709-MW21-25-FH3.aqt

Date: 05/08/13

Time: 16:52:44

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW21-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.00827$ cm/sec

$y_0 = 2.168$ ft

AQUIFER DATA

Saturated Thickness: 9.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (709-MW21-25)

Initial Displacement: 3.375 ft

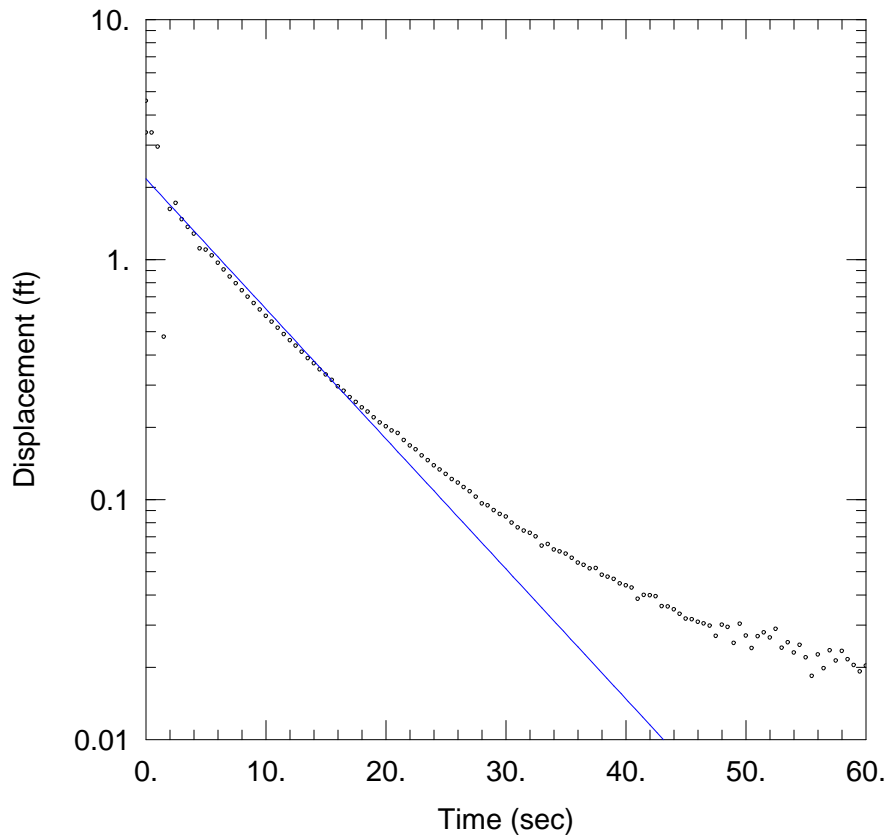
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.83 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW21-25 FALLING HEAD TEST 4

Data Set: N:\...\709-MW21-25-FH4.aqt

Date: 05/08/13

Time: 16:52:32

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW21-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.00827 cm/sec

y0 = 2.168 ft

AQUIFER DATA

Saturated Thickness: 9.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW21-25)

Initial Displacement: 3.375 ft

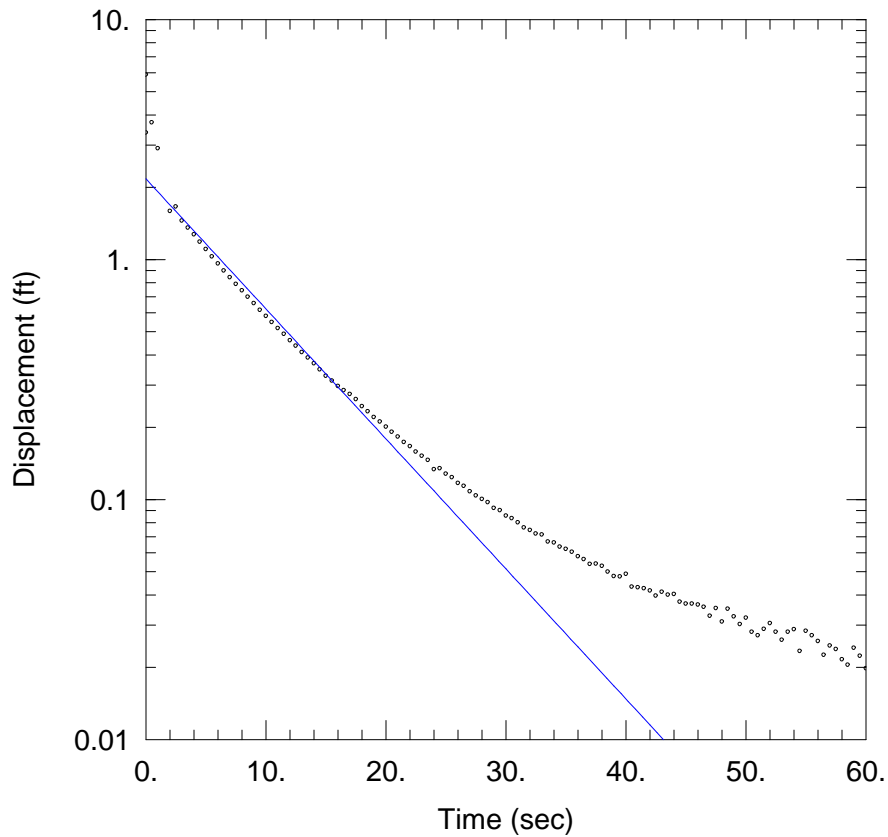
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.83 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW21-25 FALLING HEAD TEST 5

Data Set: N:\...\709-MW21-25-FH5.aqt

Date: 05/08/13

Time: 16:52:19

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW21-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.00827 cm/sec

y0 = 2.168 ft

AQUIFER DATA

Saturated Thickness: 9.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW21-25)

Initial Displacement: 3.375 ft

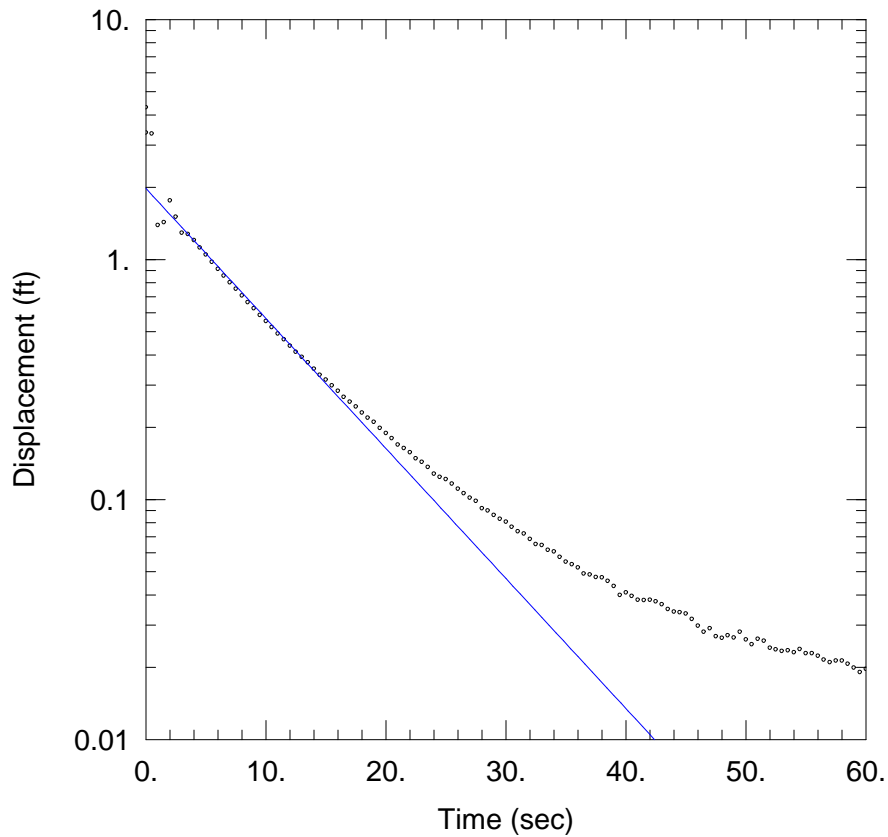
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.83 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW21-25 FALLING HEAD TEST 6

Data Set: N:\...\709-MW21-25-FH6.aqt

Date: 05/08/13

Time: 16:52:06

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW21-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.00827$ cm/sec

$y_0 = 1.978$ ft

AQUIFER DATA

Saturated Thickness: 9.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (709-MW21-25)

Initial Displacement: 3.375 ft

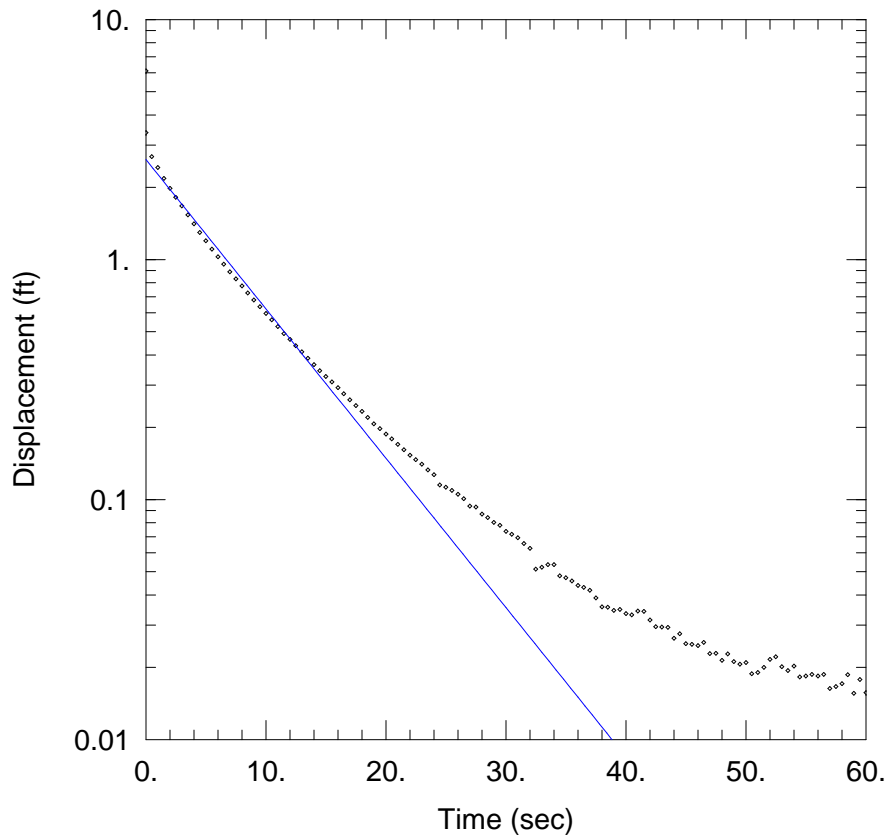
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.83 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW21-25 RISING HEAD TEST 1

Data Set: N:\...\709-MW21-25-RH1.aqt

Date: 05/08/13

Time: 16:57:59

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW21-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.009496 cm/sec

y0 = 2.607 ft

AQUIFER DATA

Saturated Thickness: 9.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW21-25)

Initial Displacement: 3.375 ft

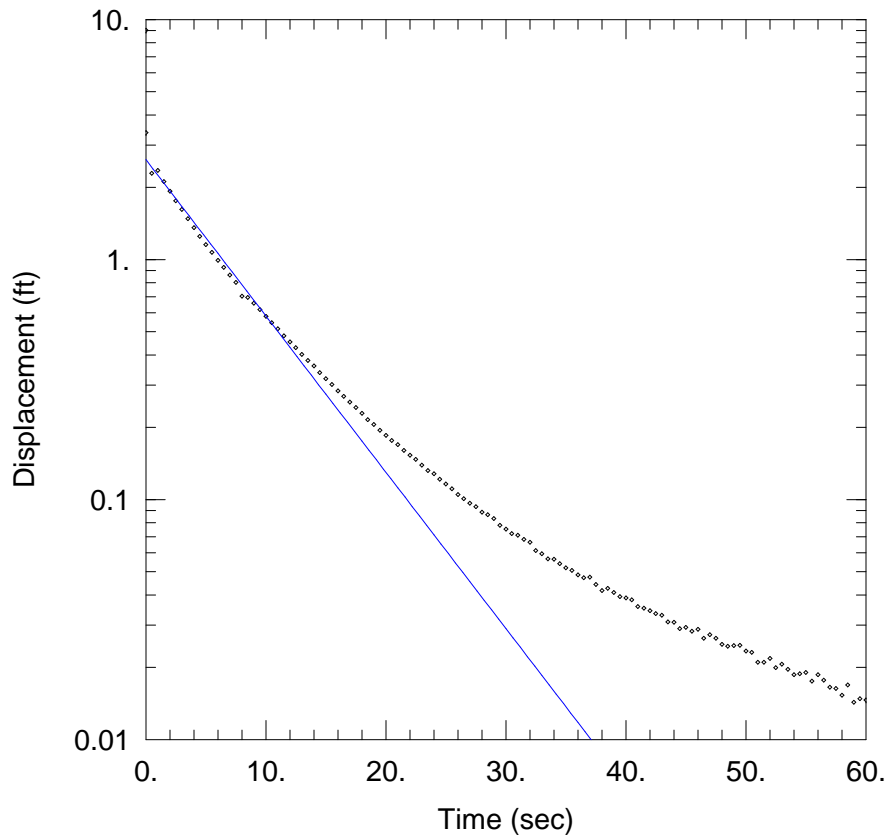
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.83 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW21-25 RISING HEAD TEST 2

Data Set: N:\...\709-MW21-25-RH2.aqt

Date: 05/08/13

Time: 16:57:46

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW21-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.009943 cm/sec

y0 = 2.607 ft

AQUIFER DATA

Saturated Thickness: 9.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW21-25)

Initial Displacement: 3.375 ft

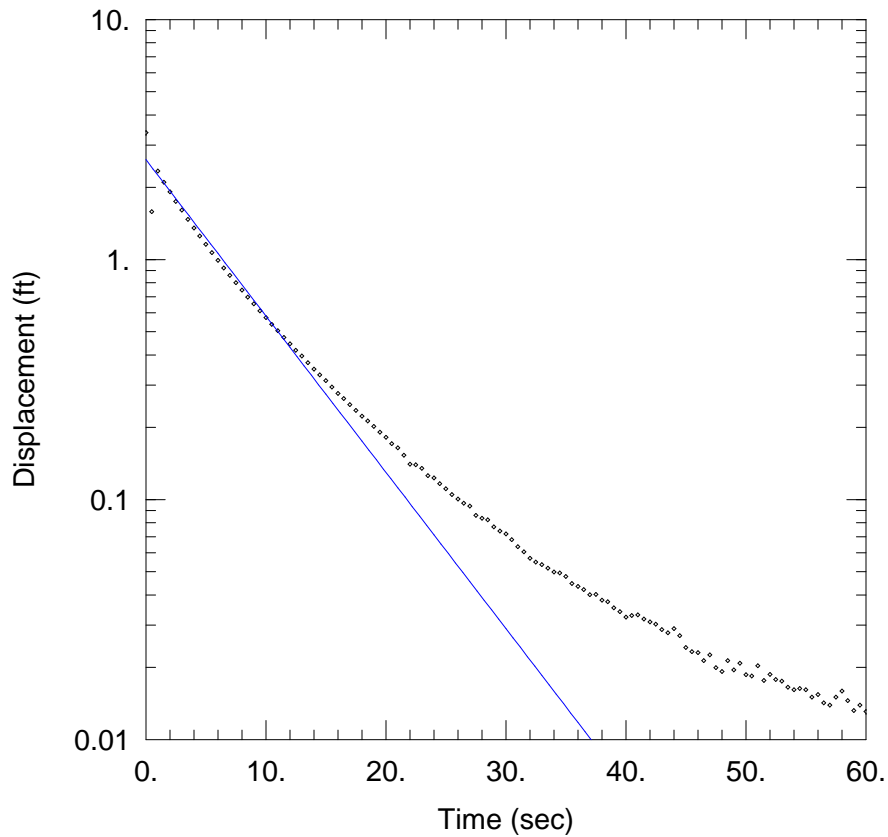
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.83 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW21-25 RISING HEAD TEST 3

Data Set: N:\...\709-MW21-25-RH3.aqt

Date: 05/08/13

Time: 16:57:33

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW21-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.009943$ cm/sec

$y_0 = 2.607$ ft

AQUIFER DATA

Saturated Thickness: 9.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (709-MW21-25)

Initial Displacement: 3.375 ft

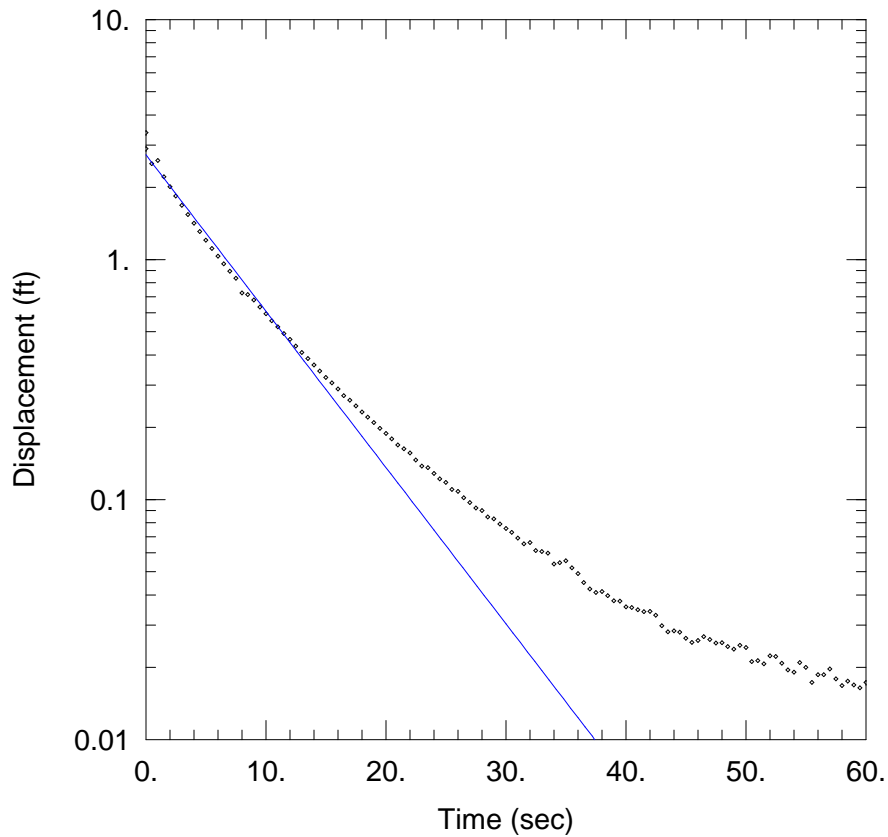
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.83 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW21-25 RISING HEAD TEST 4

Data Set: N:\...\709-MW21-25-RH4.aqt

Date: 05/08/13

Time: 16:57:21

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW21-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.009943 cm/sec

y0 = 2.73 ft

AQUIFER DATA

Saturated Thickness: 9.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW21-25)

Initial Displacement: 3.375 ft

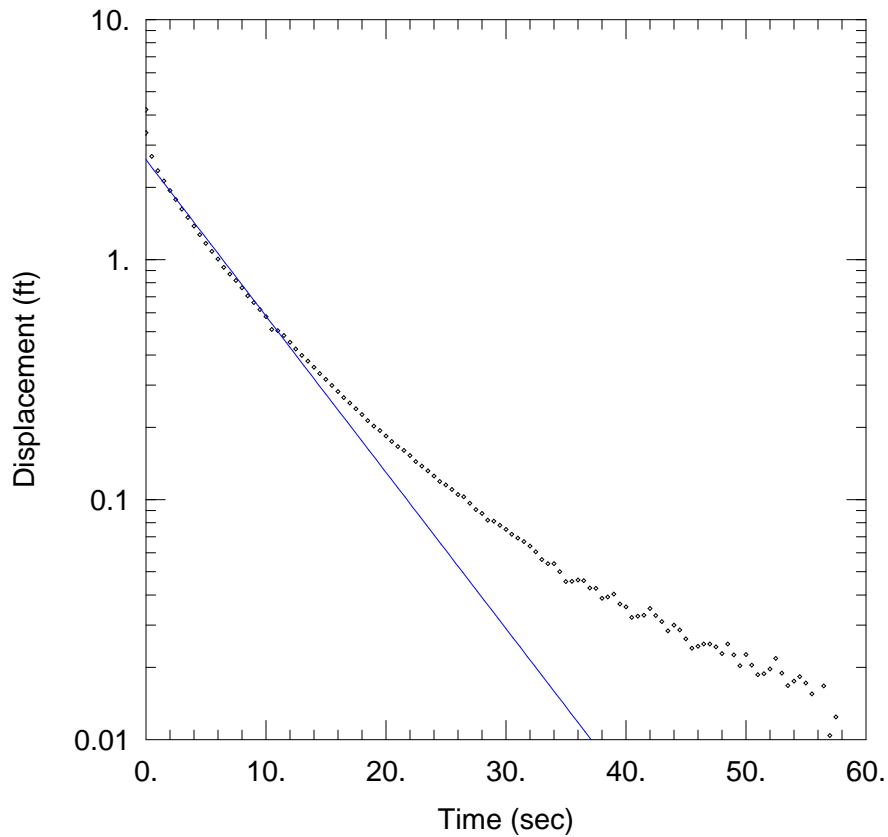
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.83 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW21-25 RISING HEAD TEST 5

Data Set: N:\...\709-MW21-25-RH5.aqt

Date: 05/08/13

Time: 16:57:08

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW21-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.009943 cm/sec

y0 = 2.607 ft

AQUIFER DATA

Saturated Thickness: 9.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW21-25)

Initial Displacement: 3.375 ft

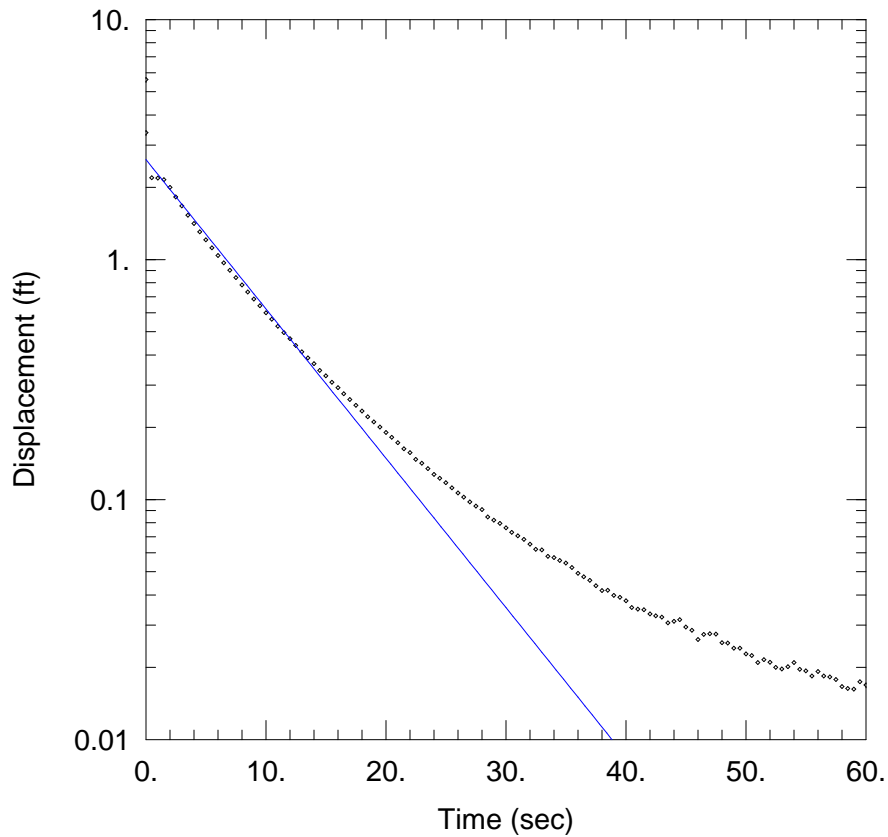
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.83 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW21-25 RISING HEAD TEST 6

Data Set: N:\...\709-MW21-25-RH6.aqt

Date: 05/08/13

Time: 16:56:55

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW21-25

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.009496 cm/sec

y0 = 2.607 ft

AQUIFER DATA

Saturated Thickness: 9.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW21-25)

Initial Displacement: 3.375 ft

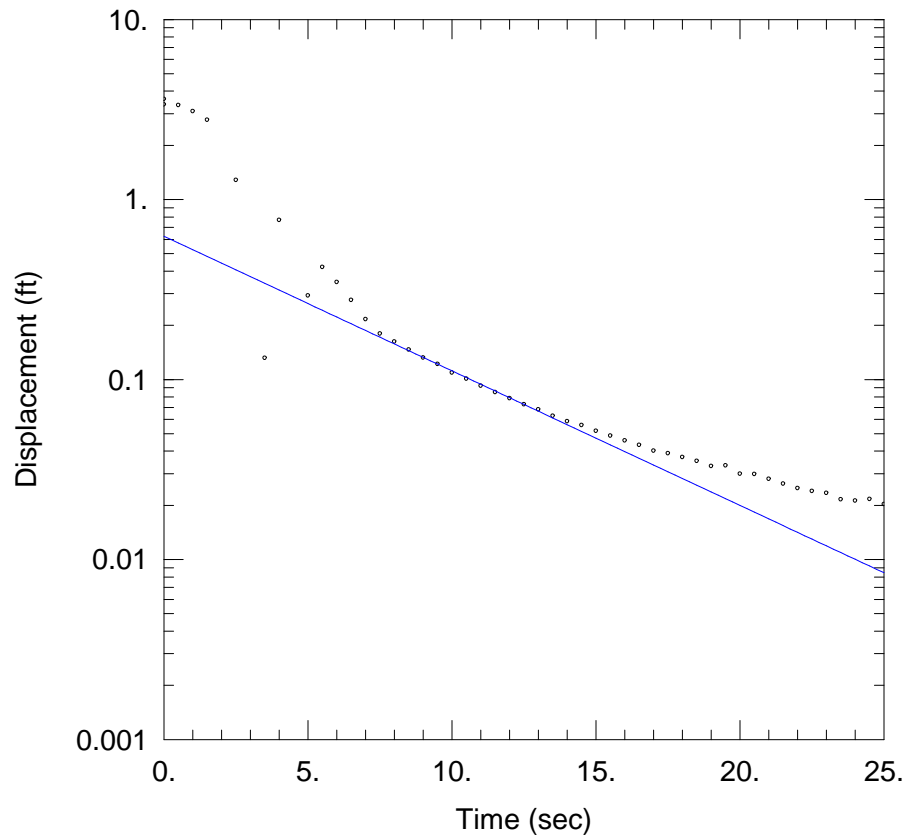
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.83 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW21-50 FALLING HEAD TEST 1

Data Set: N:\...\709-MW21-50-FH1.aqt

Date: 05/10/13

Time: 11:08:48

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW21-50

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01142 cm/sec

y0 = 0.6254 ft

AQUIFER DATA

Saturated Thickness: 9.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW21-50)

Initial Displacement: 3.375 ft

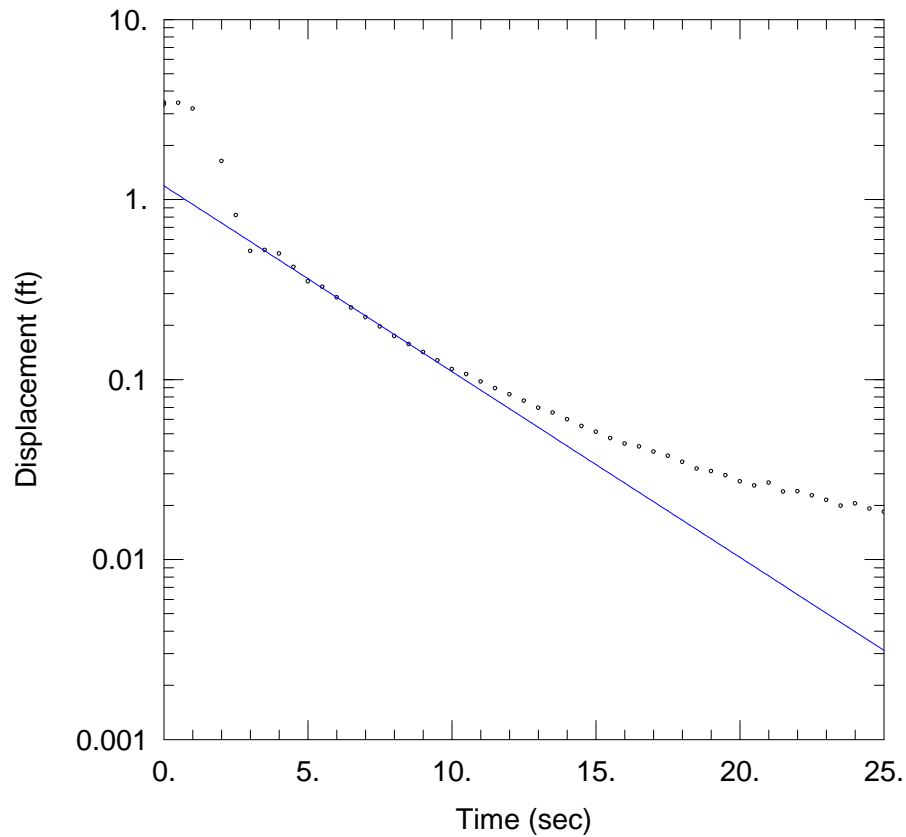
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.85 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW21-50 FALLING HEAD TEST 2

Data Set: N:\...\709-MW21-50-FH2.aqt

Date: 05/10/13

Time: 11:08:36

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW21-50

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01576 cm/sec

y0 = 1.192 ft

AQUIFER DATA

Saturated Thickness: 9.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW21-50)

Initial Displacement: 3.375 ft

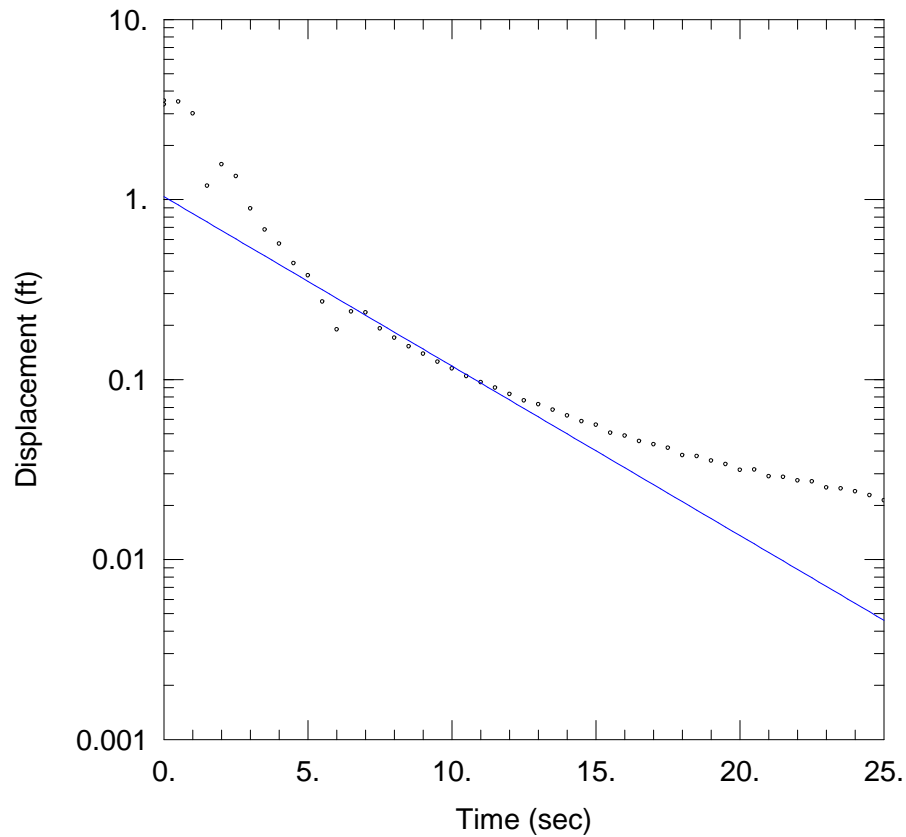
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.85 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW21-50 FALLING HEAD TEST 3

Data Set: N:\...\709-MW21-50-FH3.aqt

Date: 05/10/13

Time: 11:08:23

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW21-50

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01437 cm/sec

y0 = 1.038 ft

AQUIFER DATA

Saturated Thickness: 9.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW21-50)

Initial Displacement: 3.375 ft

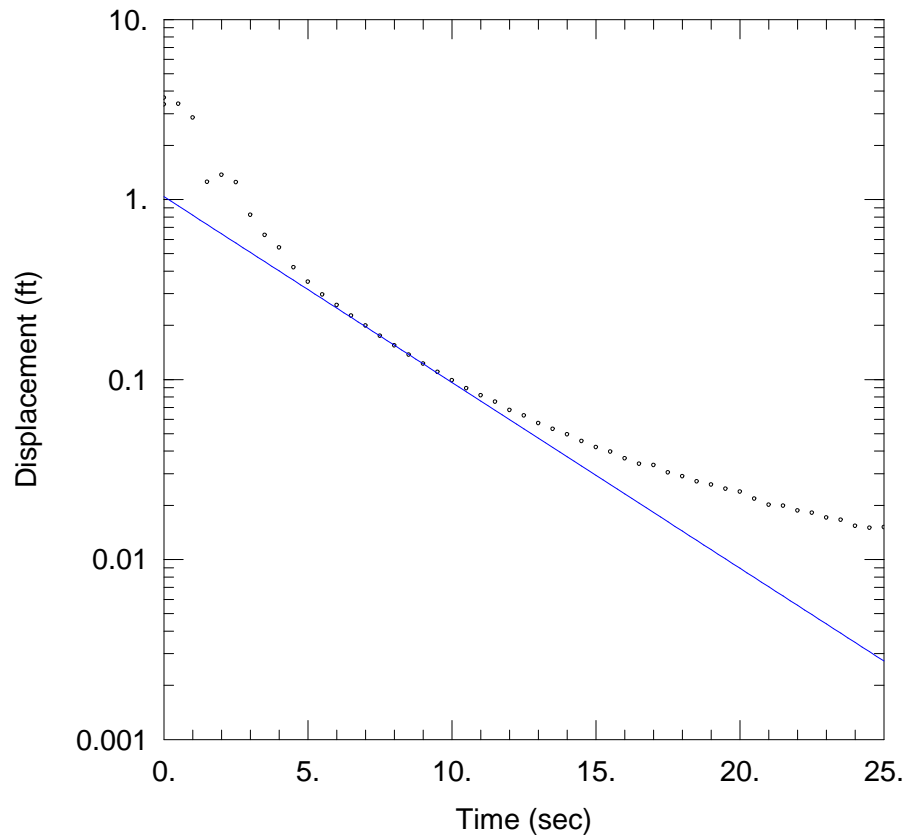
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.85 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW21-50 FALLING HEAD TEST 4

Data Set: N:\...\709-MW21-50-FH4.aqt

Date: 05/10/13

Time: 11:08:11

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW21-50

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01576 cm/sec

y0 = 1.038 ft

AQUIFER DATA

Saturated Thickness: 9.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW21-50)

Initial Displacement: 3.375 ft

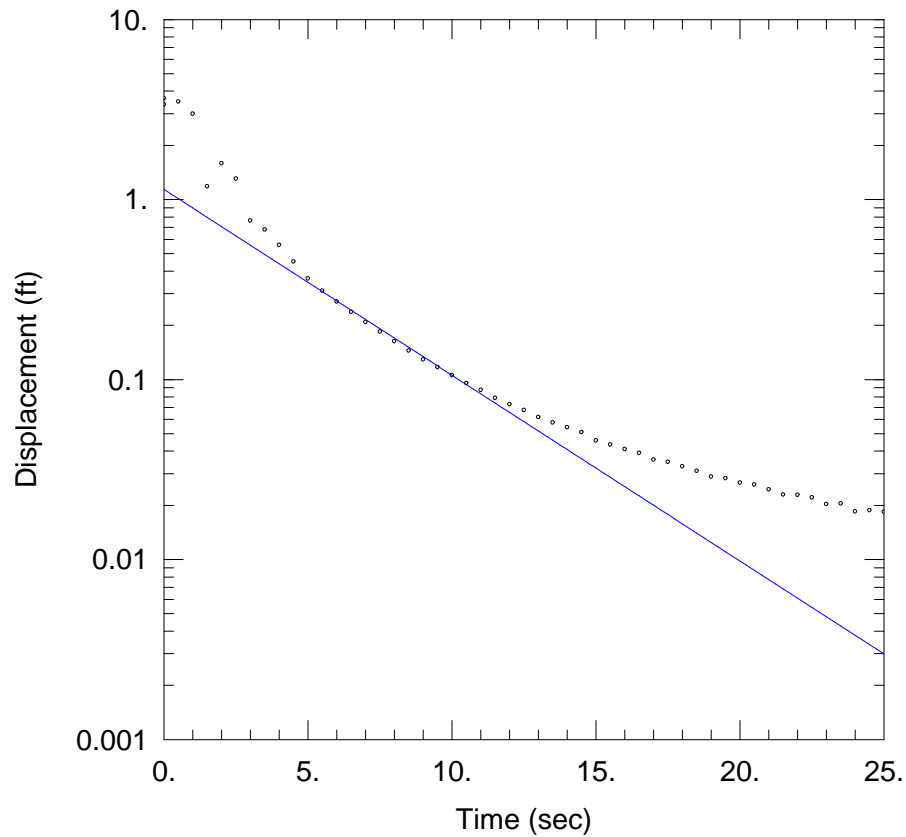
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.85 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW21-50 FALLING HEAD TEST 5

Data Set: N:\...\709-MW21-50-FH5.aqt

Date: 05/10/13

Time: 11:07:59

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW21-50

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01576 cm/sec

y0 = 1.138 ft

AQUIFER DATA

Saturated Thickness: 9.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW21-50)

Initial Displacement: 3.375 ft

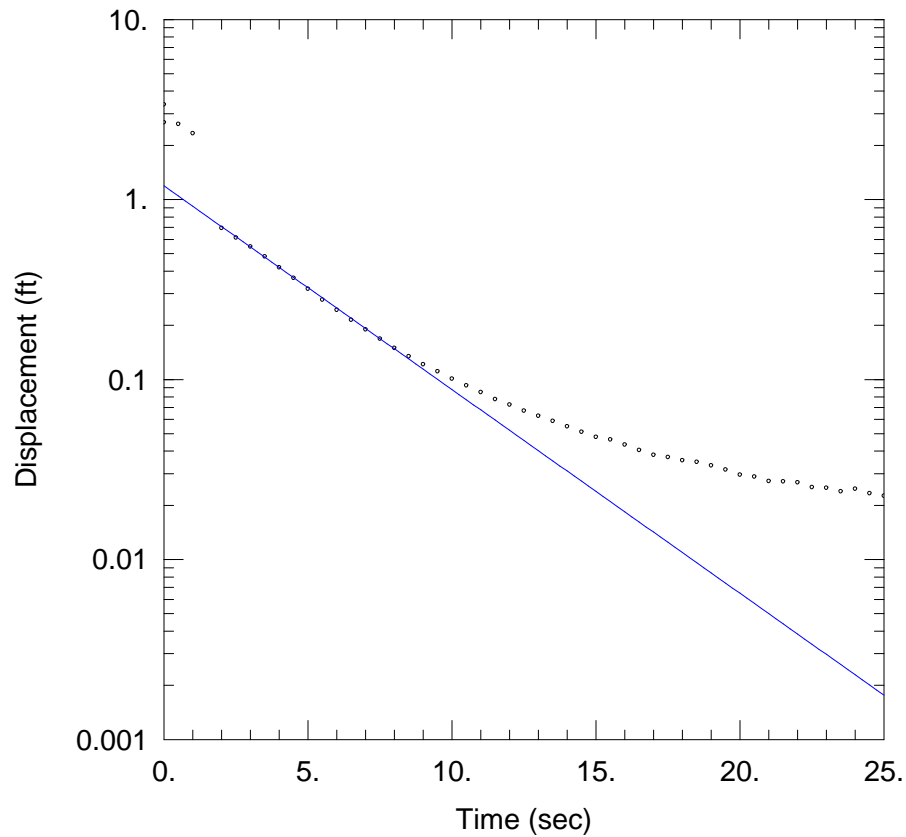
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.85 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW21-50 FALLING HEAD TEST 6

Data Set: N:\...\709-MW21-50-FH6.aqt

Date: 05/10/13

Time: 11:07:43

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW21-50

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01728 cm/sec

y0 = 1.192 ft

AQUIFER DATA

Saturated Thickness: 9.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW21-50)

Initial Displacement: 3.375 ft

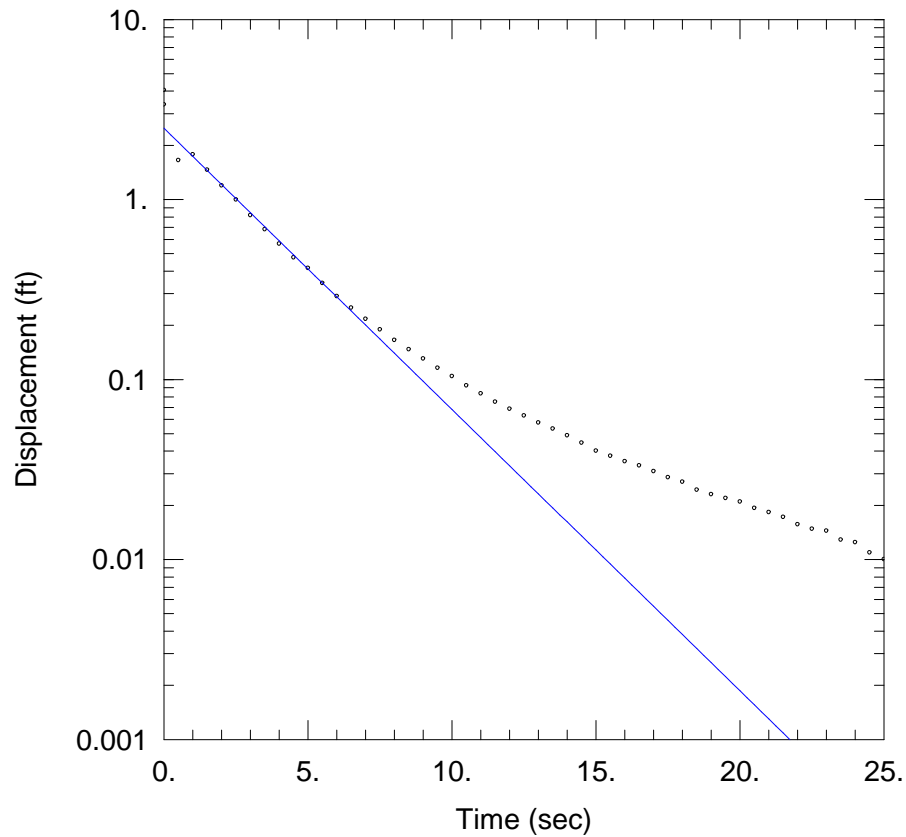
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.85 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW21-50 RISING HEAD TEST 1

Data Set: N:\...\709-MW21-50-RH1.aqt

Date: 05/10/13

Time: 11:17:47

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW21-50

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.02385$ cm/sec

$y_0 = 2.49$ ft

AQUIFER DATA

Saturated Thickness: 9.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (709-MW21-50)

Initial Displacement: 3.375 ft

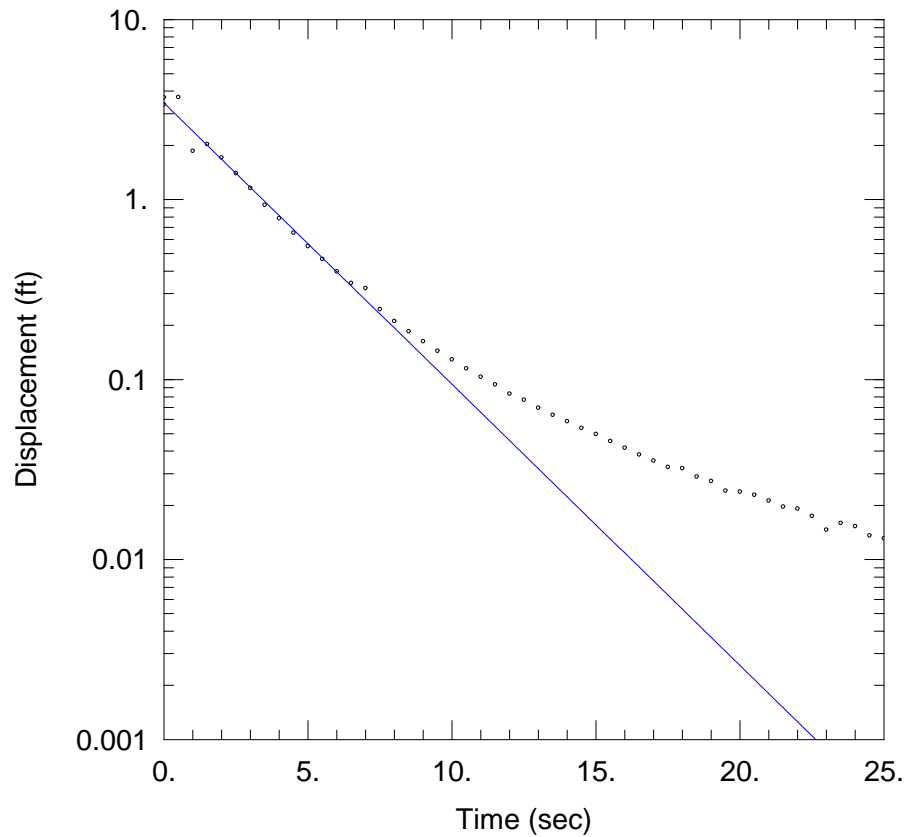
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.85 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW21-50 RISING HEAD TEST 2

Data Set: N:\...\709-MW21-50-RH2.aqt

Date: 05/10/13

Time: 11:18:13

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW21-50

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.02385$ cm/sec

$y_0 = 3.437$ ft

AQUIFER DATA

Saturated Thickness: 9.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (709-MW21-50)

Initial Displacement: 3.375 ft

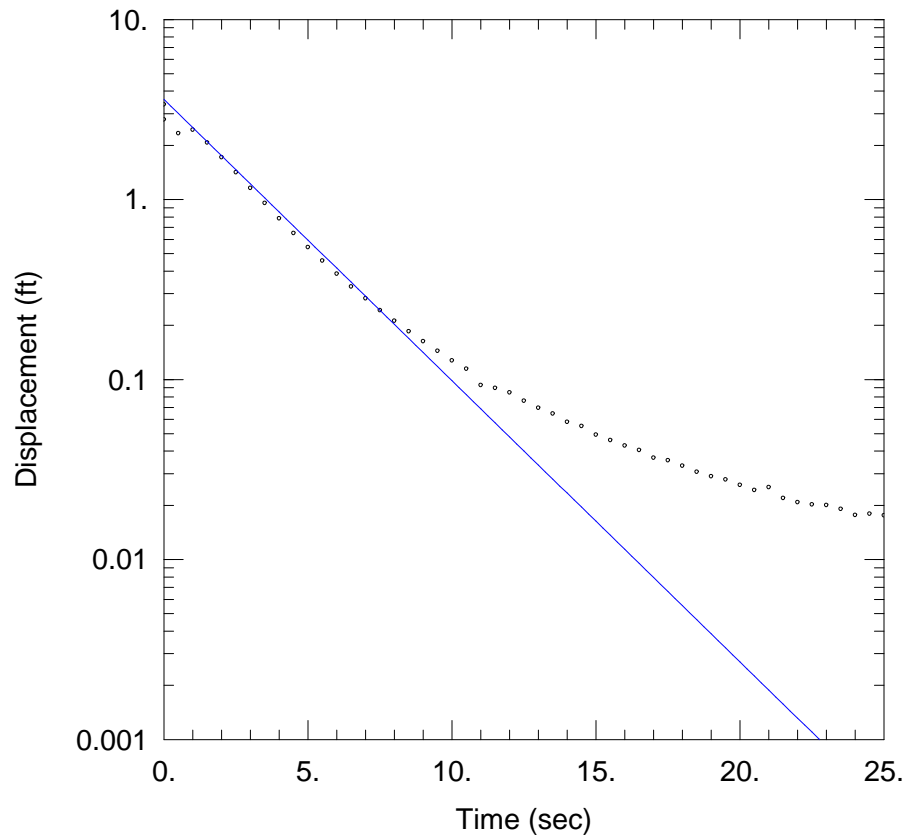
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.85 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW21-50 RISING HEAD TEST 3

Data Set: N:\...\709-MW21-50-RH3.aqt

Date: 05/10/13

Time: 11:17:59

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW21-50

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.02385$ cm/sec

$y_0 = 3.599$ ft

AQUIFER DATA

Saturated Thickness: 9.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (709-MW21-50)

Initial Displacement: 3.375 ft

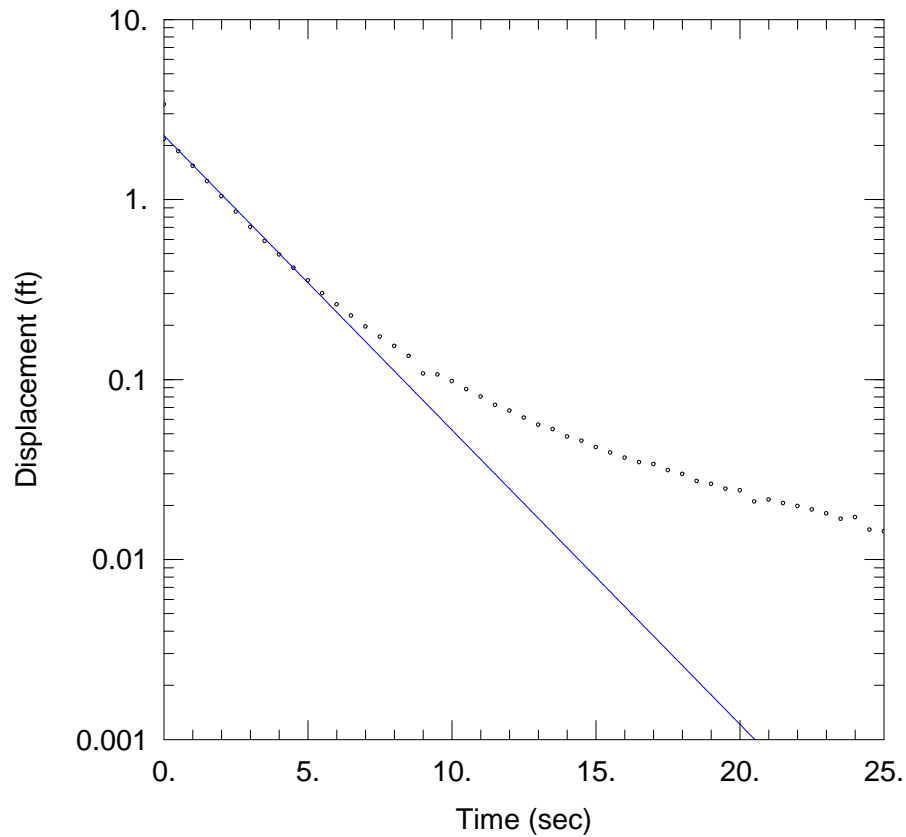
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.85 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW21-50 RISING HEAD TEST 4

Data Set: N:\...\709-MW21-50-RH4.aqt

Date: 05/10/13

Time: 11:17:36

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW21-50

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.02498 cm/sec

y0 = 2.271 ft

AQUIFER DATA

Saturated Thickness: 9.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (709-MW21-50)

Initial Displacement: 3.375 ft

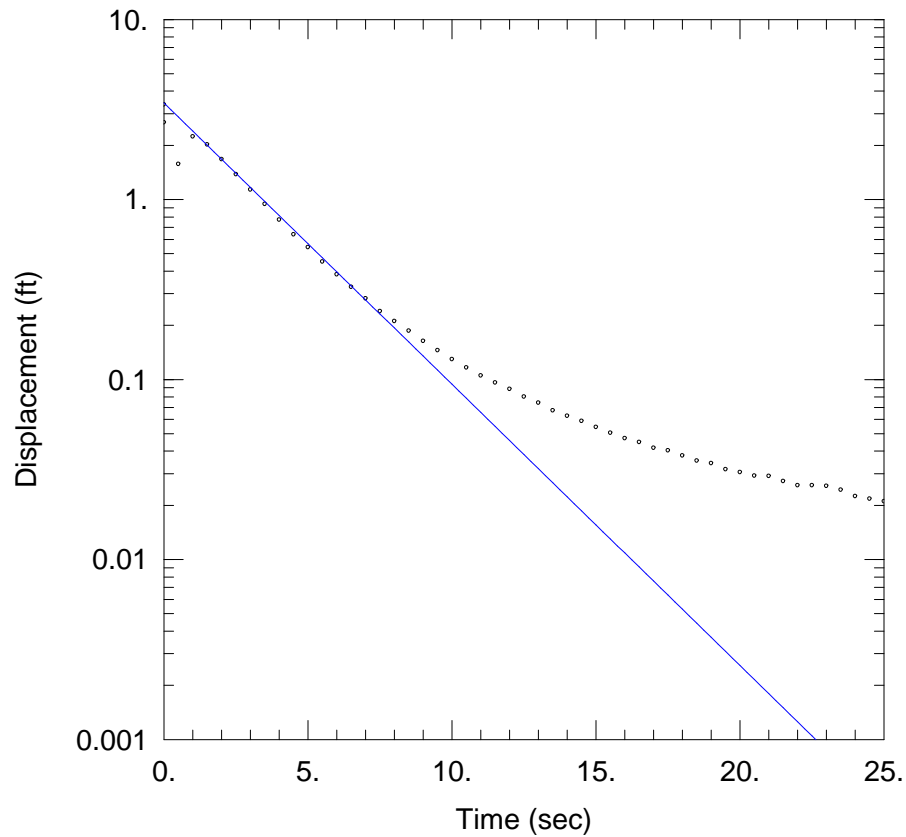
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.85 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW21-50 RISING HEAD TEST 5

Data Set: N:\...\709-MW21-50-RH5.aqt

Date: 05/10/13

Time: 11:17:24

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW21-50

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.02385$ cm/sec

$y_0 = 3.437$ ft

AQUIFER DATA

Saturated Thickness: 9.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (709-MW21-50)

Initial Displacement: 3.375 ft

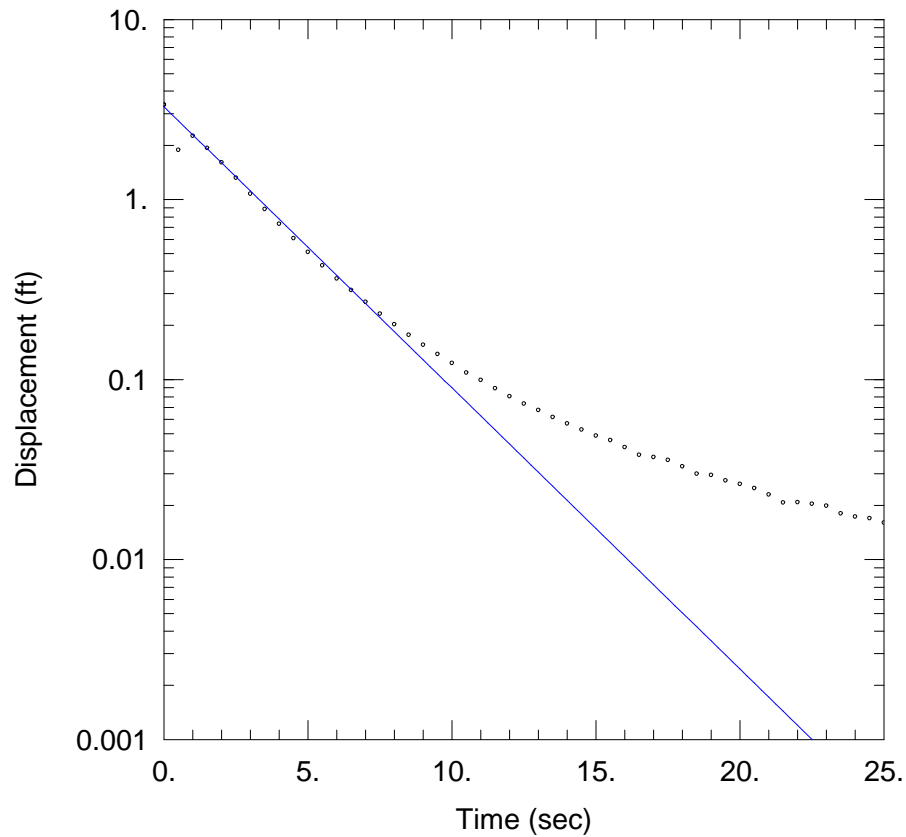
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.85 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



709-MW21-50 RISING HEAD TEST 6

Data Set: N:\...\709-MW21-50-RH6.aqt

Date: 05/10/13

Time: 11:17:10

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 709-MW21-50

Test Date: January 23, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.02385$ cm/sec

$y_0 = 3.282$ ft

AQUIFER DATA

Saturated Thickness: 9.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (709-MW21-50)

Initial Displacement: 3.375 ft

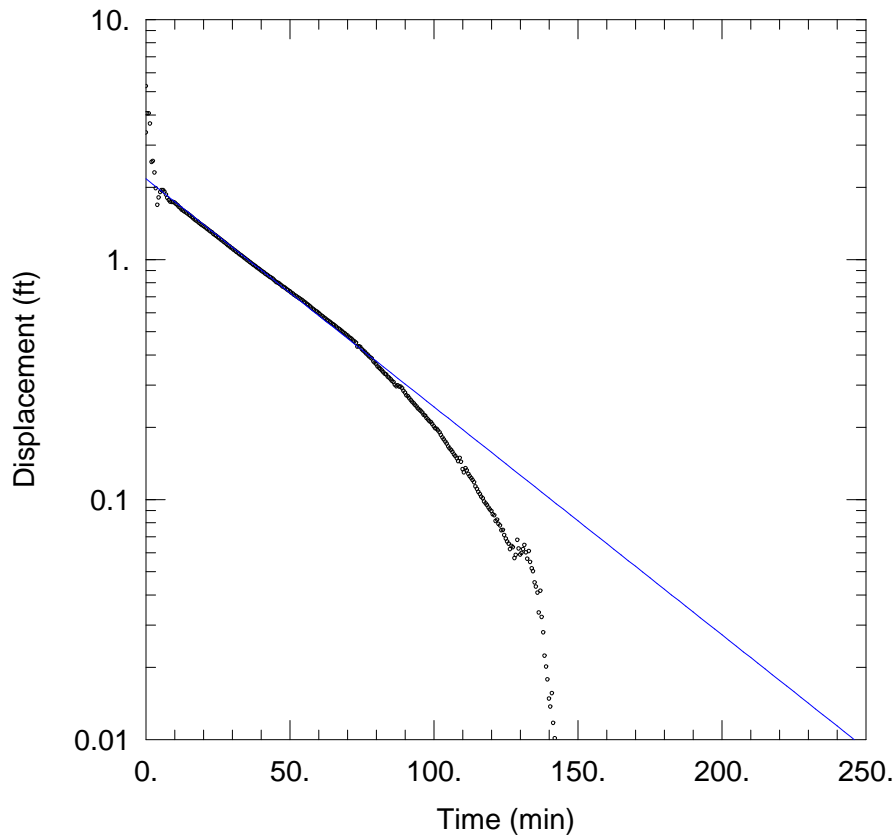
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.85 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



7-100 FALLING HEAD TEST 1

Data Set: N:\...\7-100-FH1.aqt

Date: 05/01/13

Time: 15:57:43

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 7-100

Test Date: March 27, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 4.163E-5$ cm/sec

$y_0 = 2.168$ ft

AQUIFER DATA

Saturated Thickness: 9.98 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (7-100)

Initial Displacement: 3.375 ft

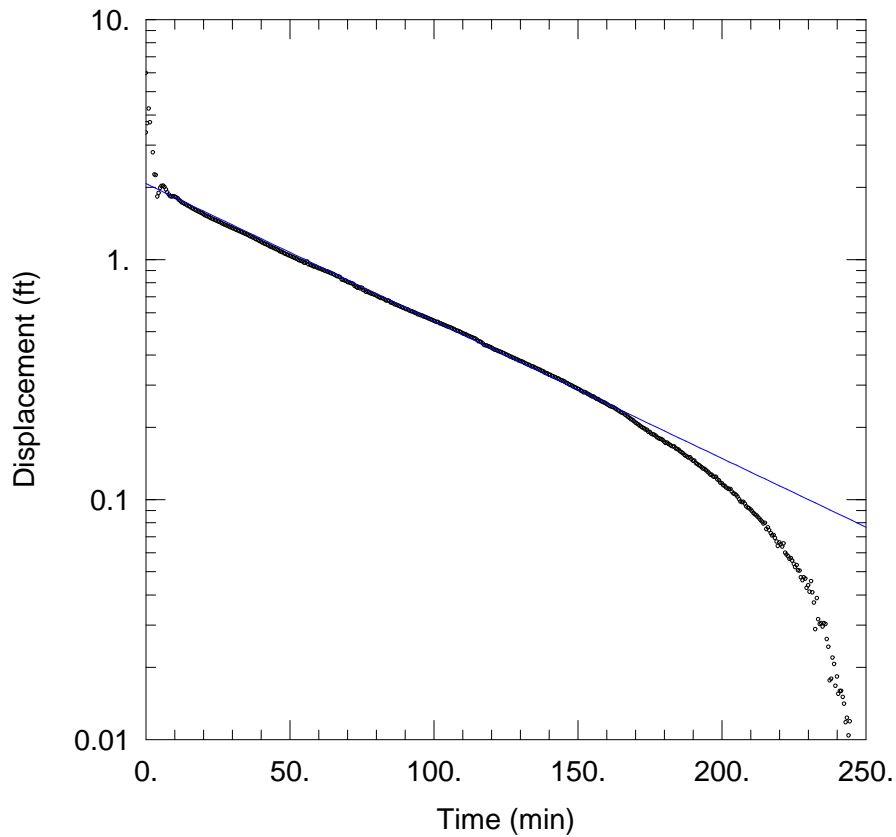
Total Well Penetration Depth: 9.98 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 85.36 ft

Screen Length: 2.98 ft

Well Radius: 0.3438 ft



7-100 FALLING HEAD TEST 2

Data Set: N:\...\7-100-FH2.aqt

Date: 05/01/13

Time: 15:57:26

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 7-100

Test Date: March 27, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 2.508E-5$ cm/sec

$y_0 = 2.071$ ft

AQUIFER DATA

Saturated Thickness: 9.98 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (7-100)

Initial Displacement: 3.375 ft

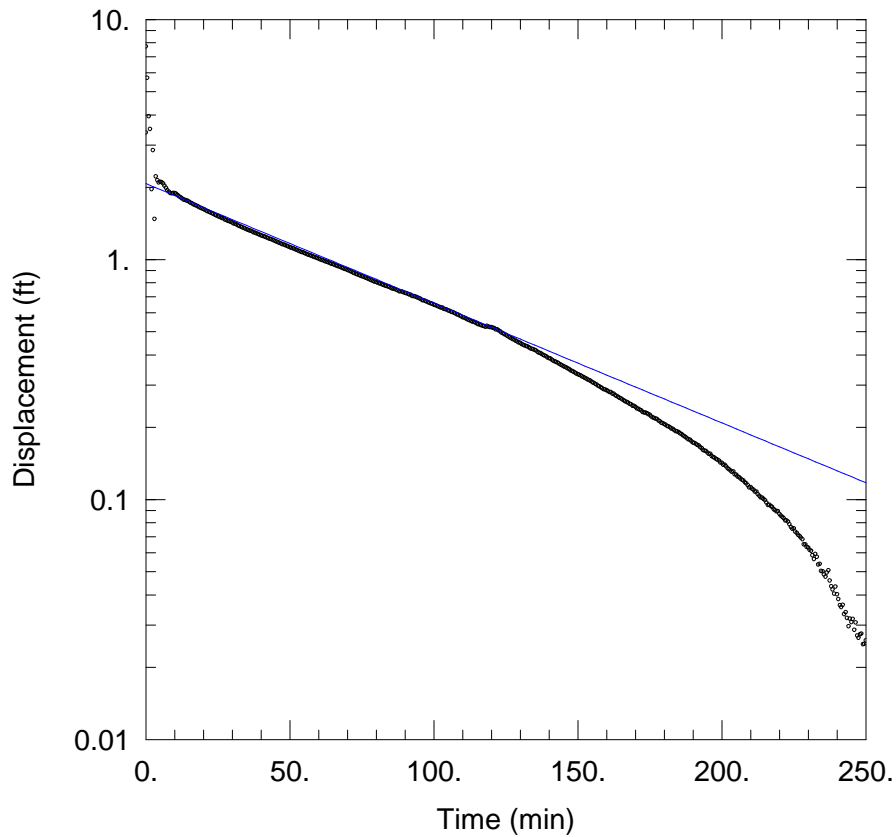
Total Well Penetration Depth: 9.98 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 85.36 ft

Screen Length: 2.98 ft

Well Radius: 0.3438 ft



7-100 FALLING HEAD TEST 3

Data Set: N:\...\7-100-FH3.aqt

Date: 05/01/13

Time: 15:57:06

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 7-100

Test Date: March 27, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 2.185E-5$ cm/sec

$y_0 = 2.071$ ft

AQUIFER DATA

Saturated Thickness: 9.98 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (7-100)

Initial Displacement: 3.375 ft

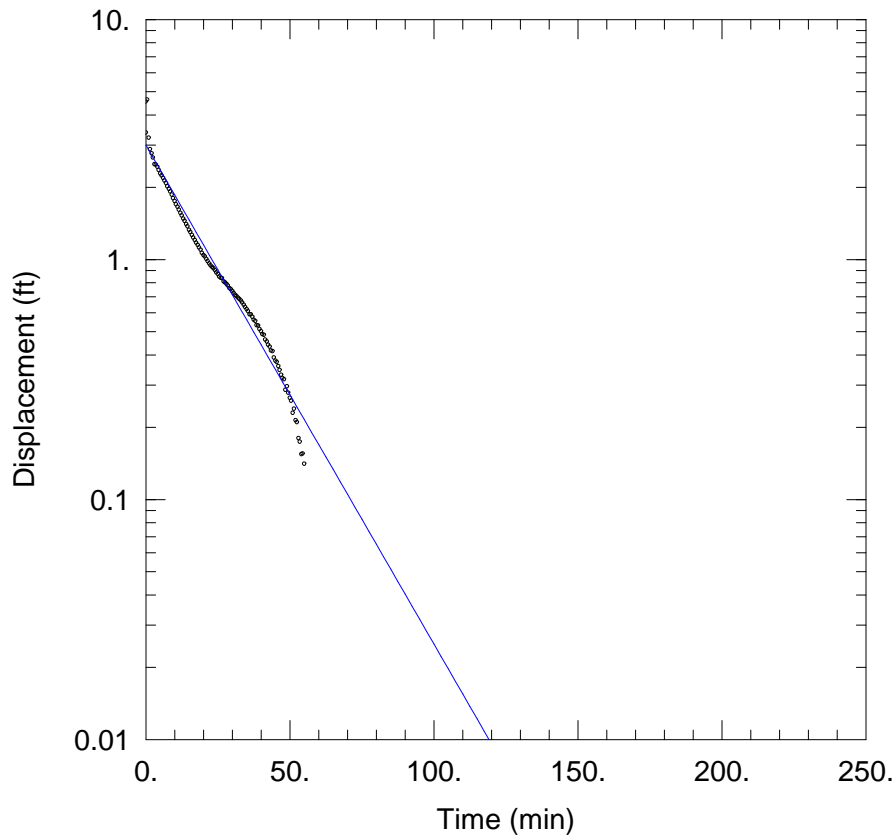
Total Well Penetration Depth: 9.98 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 85.36 ft

Screen Length: 2.98 ft

Well Radius: 0.3438 ft



7-100 RISING HEAD TEST 1

Data Set: N:\...\7-100-RH1.aqt
 Date: 05/13/13 Time: 13:58:26

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 7-100
 Test Date: March 27, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 9.107E-5$ cm/sec
 $y_0 = 2.993$ ft

AQUIFER DATA

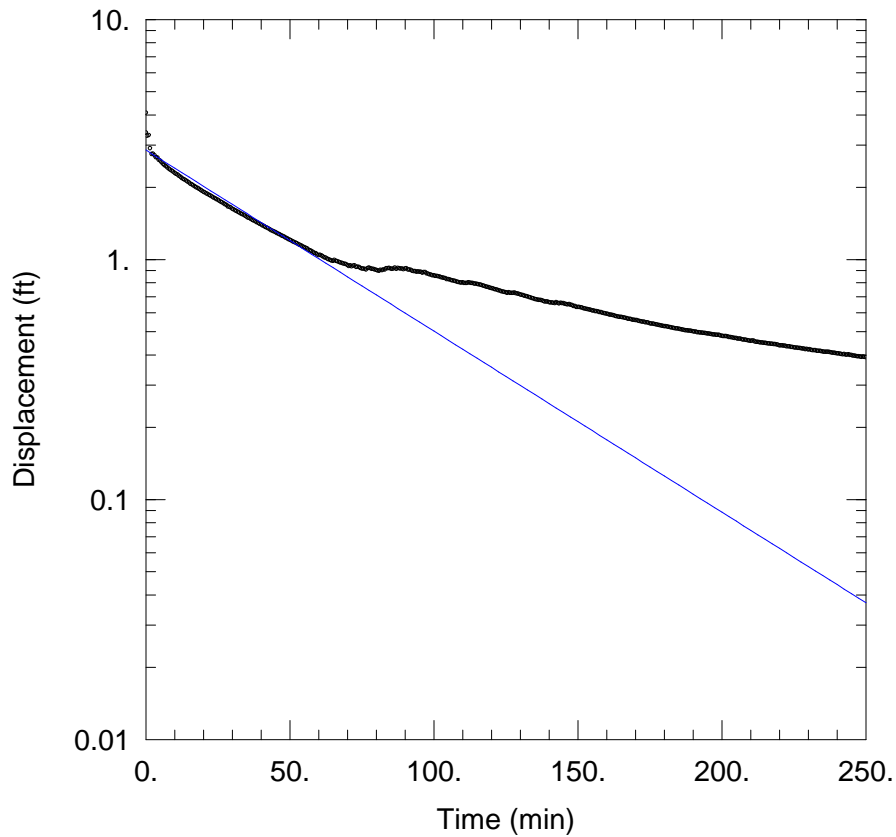
Saturated Thickness: 9.98 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (7-100)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 9.98 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 85.36 ft
 Screen Length: 2.98 ft
 Well Radius: 0.3438 ft



7-100 RISING HEAD TEST 2

Data Set: N:\...\7-100-RH2.aqt
 Date: 05/01/13 Time: 16:04:49

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 7-100
 Test Date: March 27, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 3.307E-5$ cm/sec
 $y_0 = 2.858$ ft

AQUIFER DATA

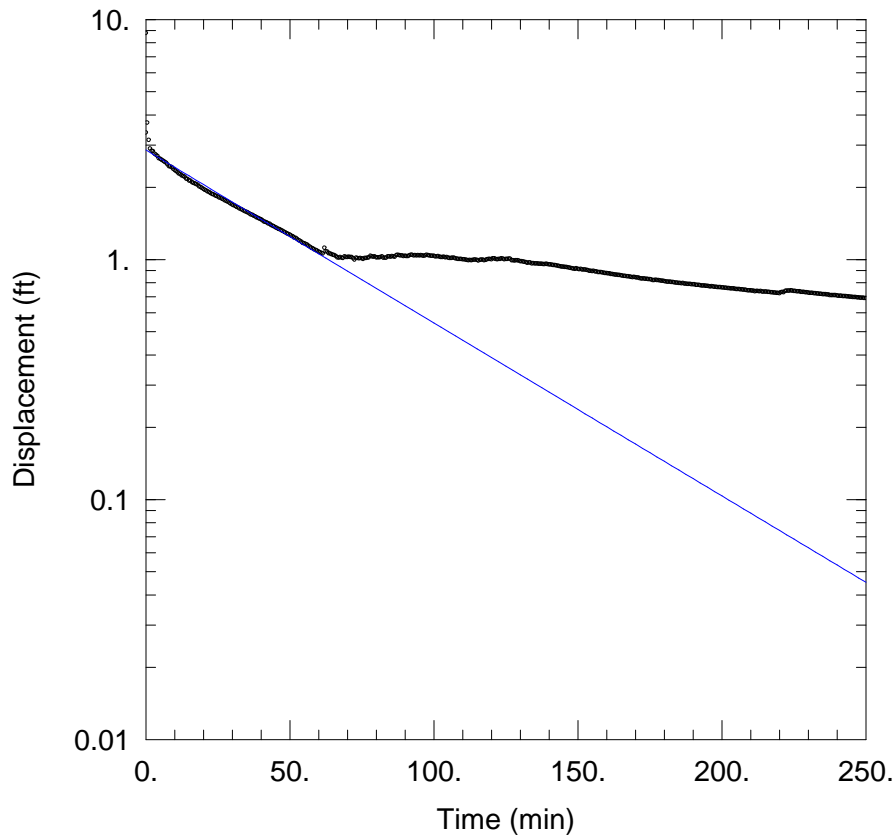
Saturated Thickness: 9.98 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (7-100)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 9.98 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 85.36 ft
 Screen Length: 2.98 ft
 Well Radius: 0.3438 ft



7-100 RISING HEAD TEST 3

Data Set: N:\...\7-100-RH3.aqt
 Date: 05/01/13 Time: 16:04:30

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 7-100
 Test Date: March 27, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 3.158E-5$ cm/sec
 $y_0 = 2.858$ ft

AQUIFER DATA

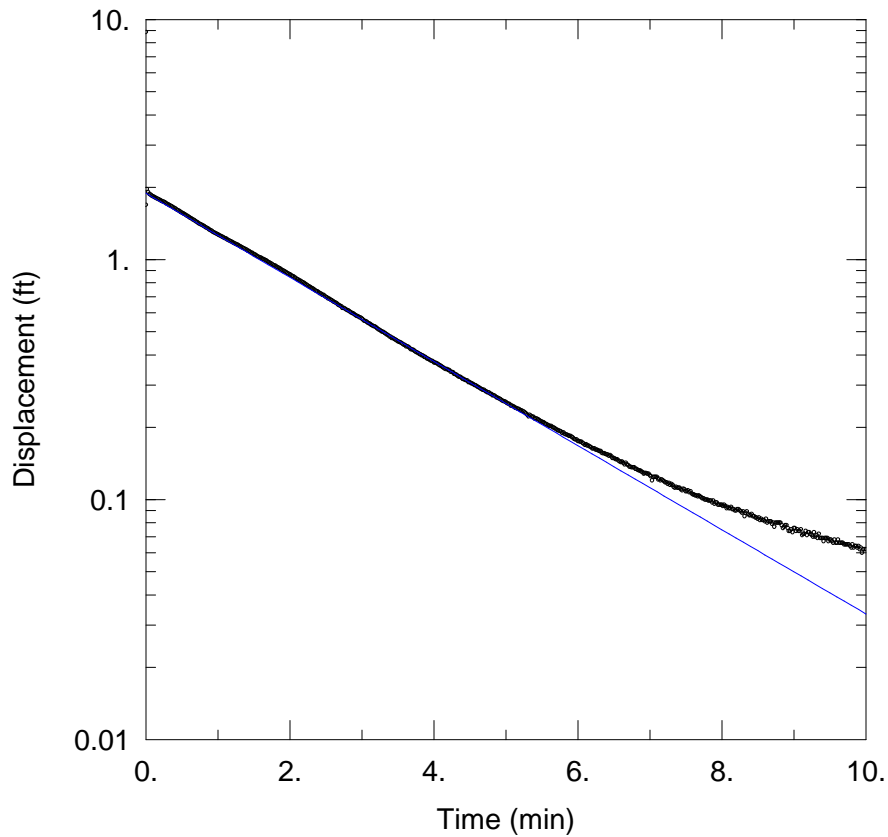
Saturated Thickness: 9.98 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (7-100)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 9.98 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 85.36 ft
 Screen Length: 2.98 ft
 Well Radius: 0.3438 ft



7-181 RISING HEAD TEST 1

Data Set: N:\...\7-181-RH1.aqt
 Date: 05/01/13 Time: 16:42:19

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 7-181
 Test Date: February 8, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0004564$ cm/sec
 $y_0 = 1.889$ ft

AQUIFER DATA

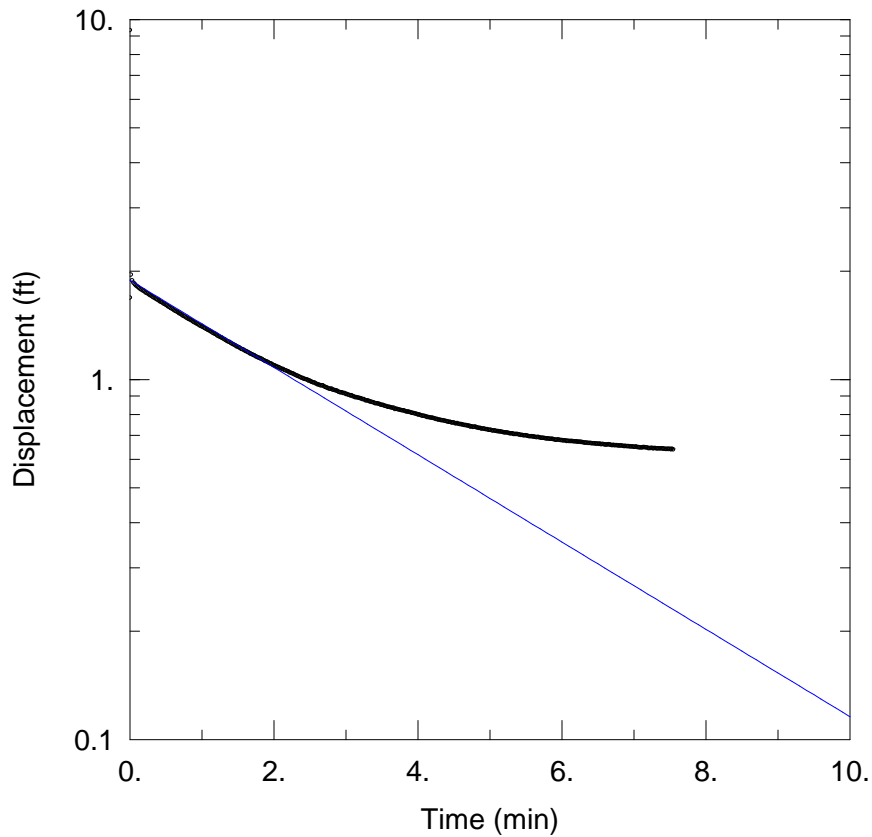
Saturated Thickness: 8.77 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (7-181)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 174.8 ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



7-181 RISING HEAD TEST 3

Data Set: N:\...\7-181-RH3.aqt
 Date: 05/01/13 Time: 16:42:03

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 7-181
 Test Date: February 11, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0003158$ cm/sec
 $y_0 = 1.889$ ft

AQUIFER DATA

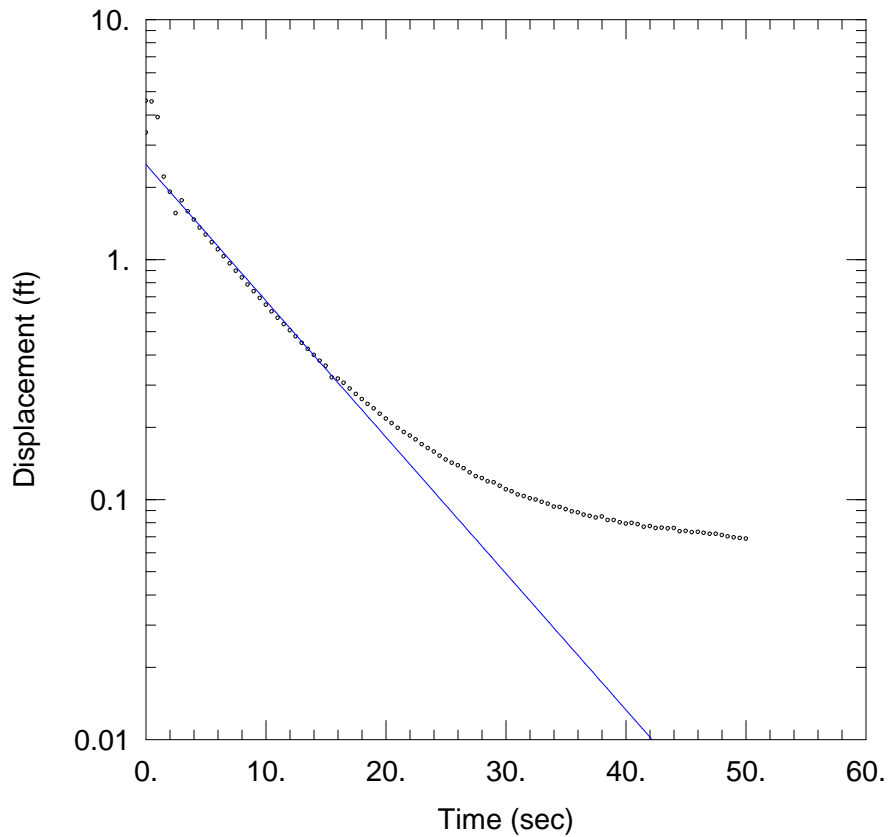
Saturated Thickness: 8.77 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (7-181)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 8. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 174.8 ft
 Screen Length: 5. ft
 Well Radius: 0.25 ft



721-MW05-75 FALLING HEAD TEST 1

Data Set: N:\...\721-MW05-75-FH1.aqt

Date: 05/09/13

Time: 09:07:09

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW05-75

Test Date: January 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.00866 cm/sec

y0 = 2.49 ft

AQUIFER DATA

Saturated Thickness: 9.9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW05-75)

Initial Displacement: 3.375 ft

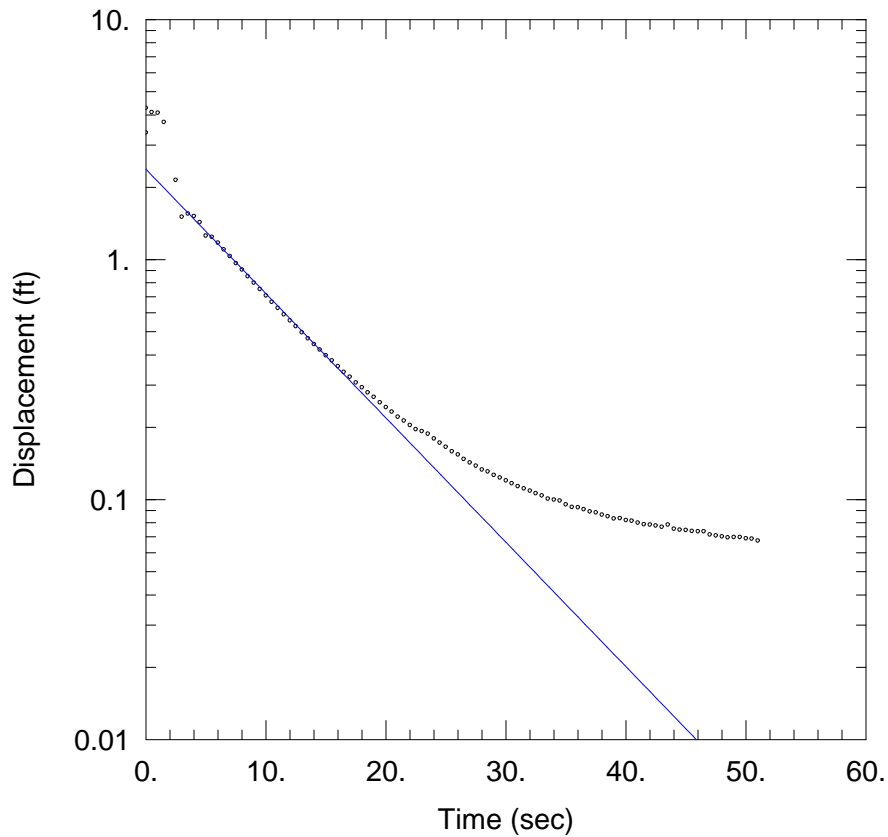
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 64.99 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW05-75 FALLING HEAD TEST 2

Data Set: N:\...\721-MW05-75-FH2.aqt

Date: 05/09/13

Time: 09:06:56

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW05-75

Test Date: January 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.007898$ cm/sec

$y_0 = 2.378$ ft

AQUIFER DATA

Saturated Thickness: 9.9 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (721-MW05-75)

Initial Displacement: 3.375 ft

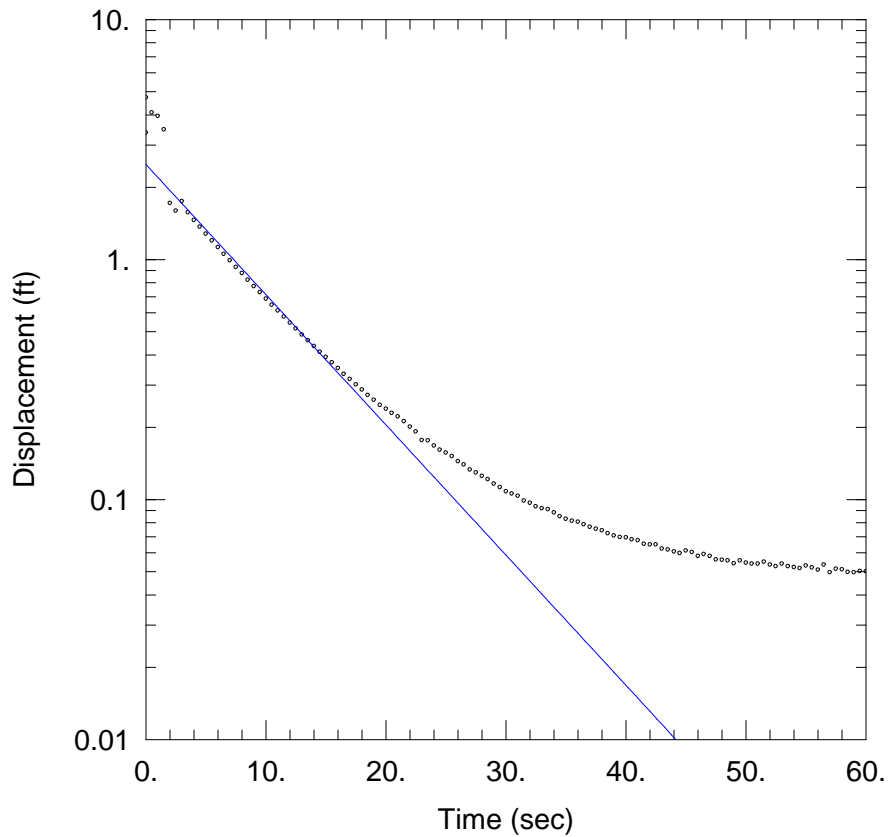
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 64.99 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW05-75 FALLING HEAD TEST 3

Data Set: N:\...\721-MW05-75-FH3.aqt

Date: 05/09/13

Time: 09:06:42

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW05-75

Test Date: January 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.00827$ cm/sec

$y_0 = 2.49$ ft

AQUIFER DATA

Saturated Thickness: 9.9 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (721-MW05-75)

Initial Displacement: 3.375 ft

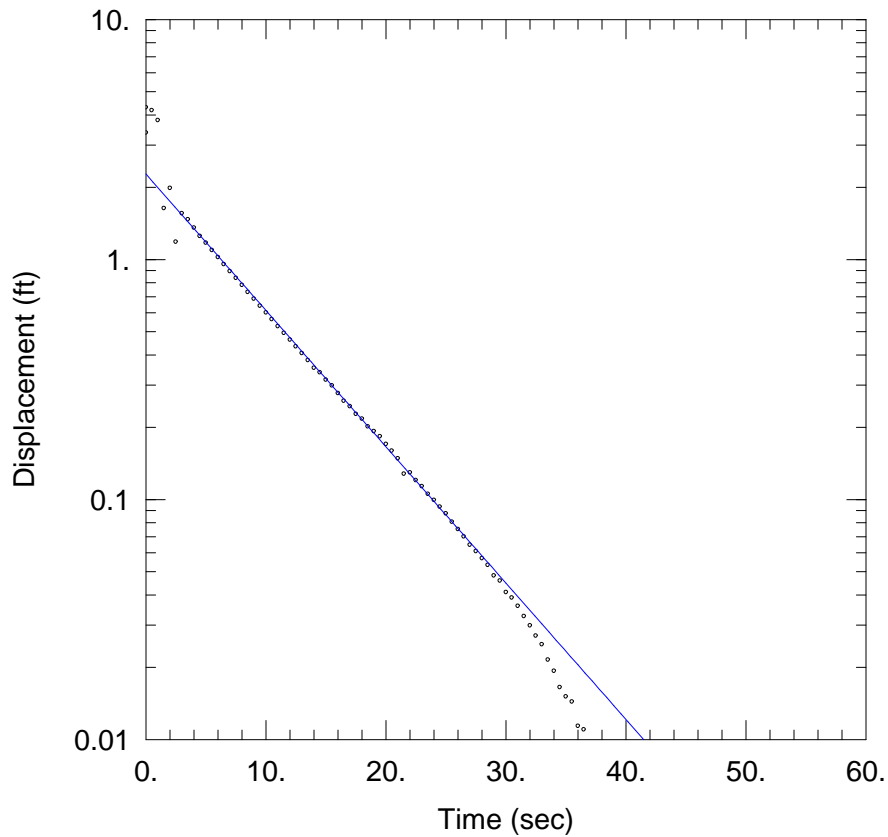
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 64.99 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW05-75 FALLING HEAD TEST 4

Data Set: N:\...\721-MW05-75-FH4.aqt

Date: 05/09/13

Time: 09:06:28

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW05-75

Test Date: January 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.00866 cm/sec

y0 = 2.271 ft

AQUIFER DATA

Saturated Thickness: 9.9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW05-75)

Initial Displacement: 3.375 ft

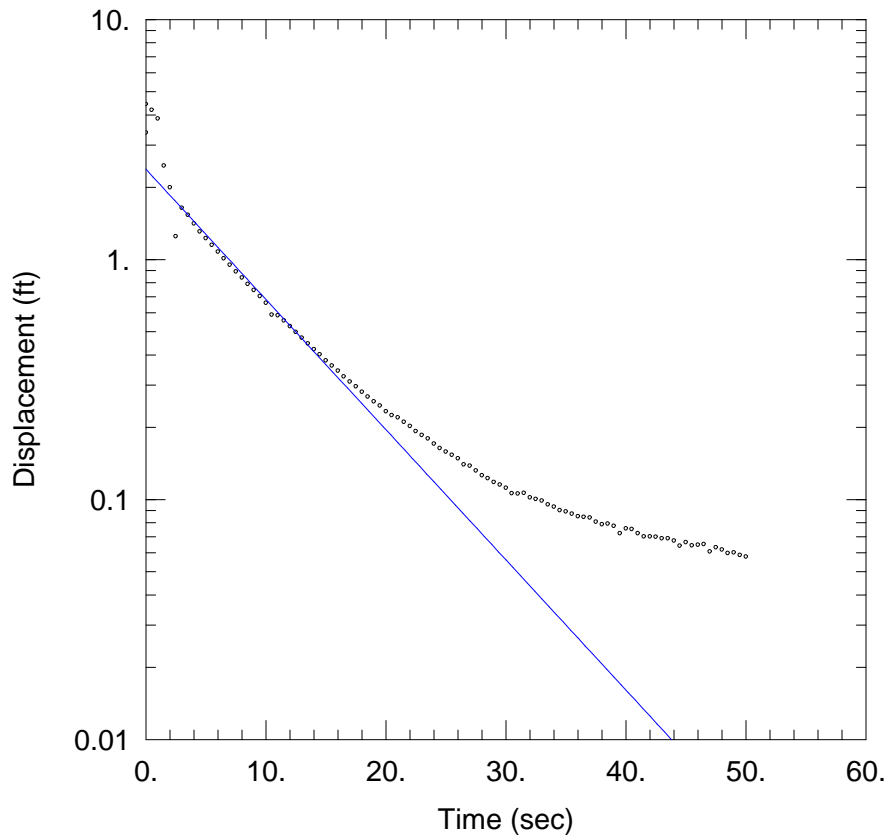
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 64.99 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW05-75 FALLING HEAD TEST 5

Data Set: N:\...\721-MW05-75-FH5.aqt

Date: 05/09/13

Time: 09:06:09

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW05-75

Test Date: January 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.00827 cm/sec

y0 = 2.378 ft

AQUIFER DATA

Saturated Thickness: 9.9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW05-75)

Initial Displacement: 3.375 ft

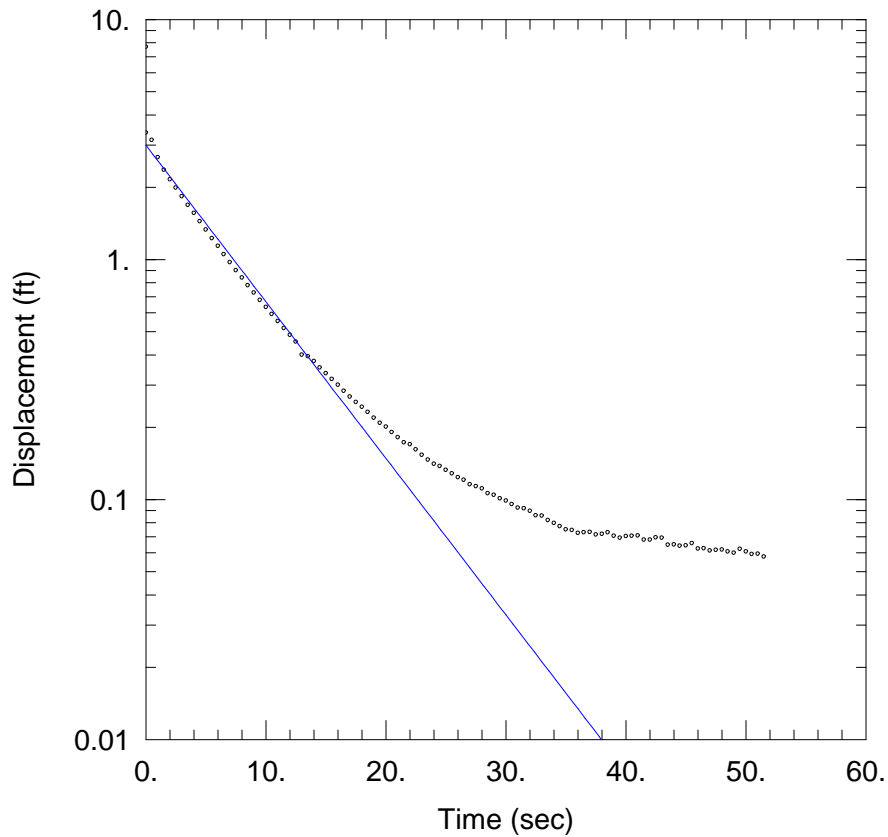
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 64.99 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW05-75 RISING HEAD TEST 1

Data Set: N:\...\721-MW05-75-RH1.aqt

Date: 05/09/13

Time: 09:11:07

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW05-75

Test Date: January 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.009943 cm/sec

y0 = 2.993 ft

AQUIFER DATA

Saturated Thickness: 9.9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW05-75)

Initial Displacement: 3.375 ft

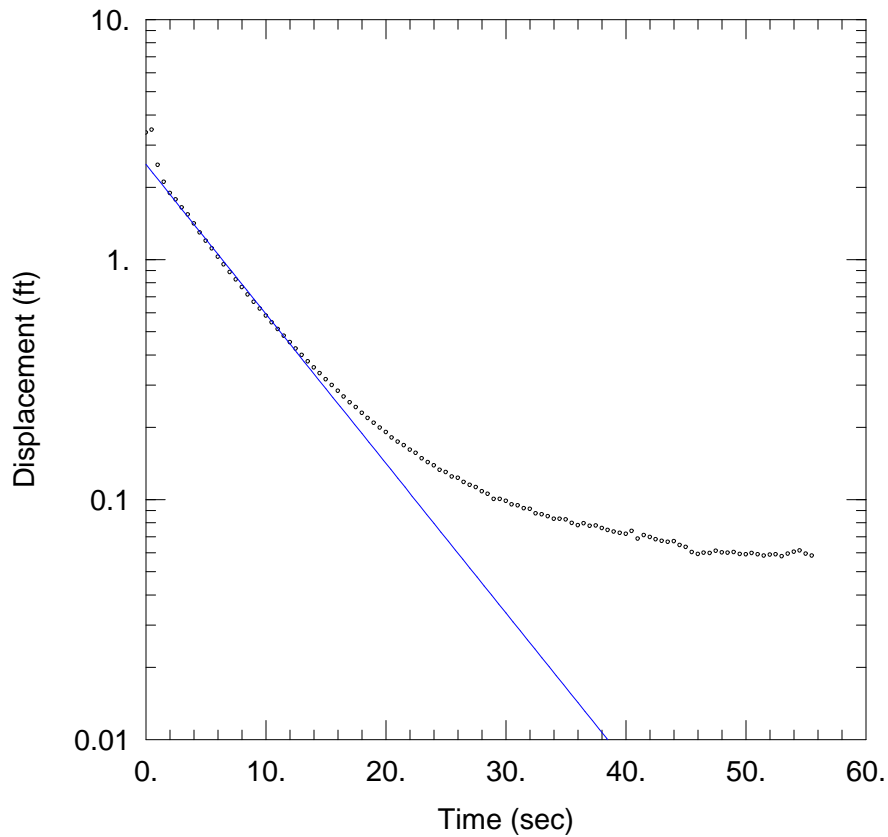
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 64.99 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW05-75 RISING HEAD TEST 2

Data Set: N:\...\721-MW05-75-RH2.aqt

Date: 05/09/13

Time: 09:10:54

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW05-75

Test Date: January 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.009496 cm/sec

y0 = 2.49 ft

AQUIFER DATA

Saturated Thickness: 9.9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW05-75)

Initial Displacement: 3.375 ft

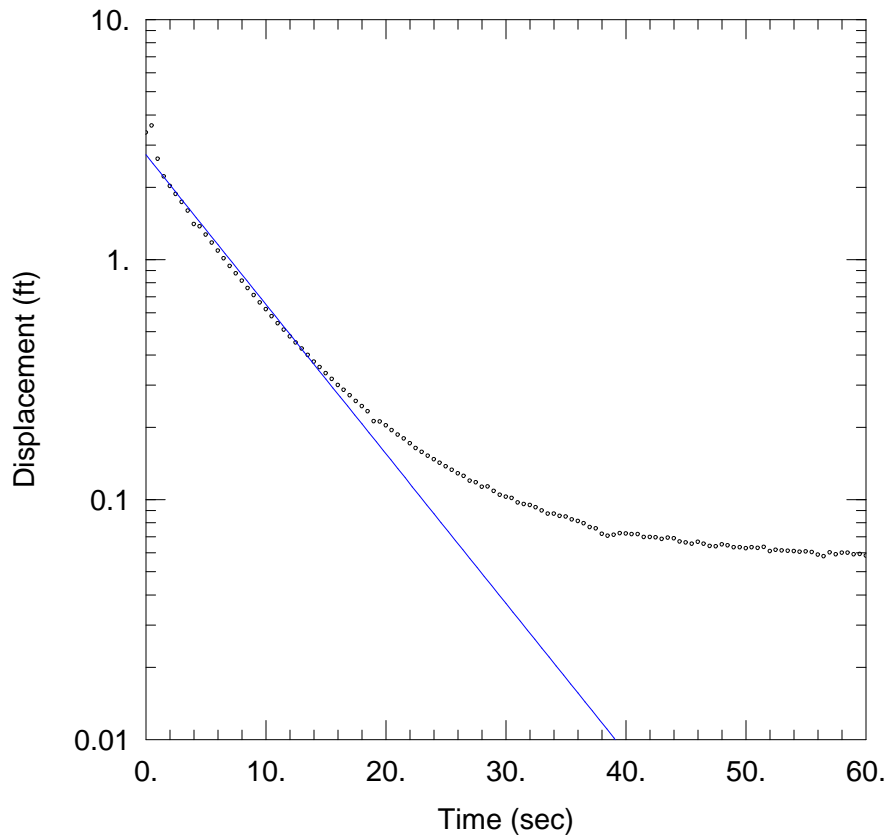
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 64.99 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW05-75 RISING HEAD TEST 3

Data Set: N:\...\721-MW05-75-RH3.aqt

Date: 05/09/13

Time: 09:10:39

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW05-75

Test Date: January 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.009496 cm/sec

y0 = 2.73 ft

AQUIFER DATA

Saturated Thickness: 9.9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW05-75)

Initial Displacement: 3.375 ft

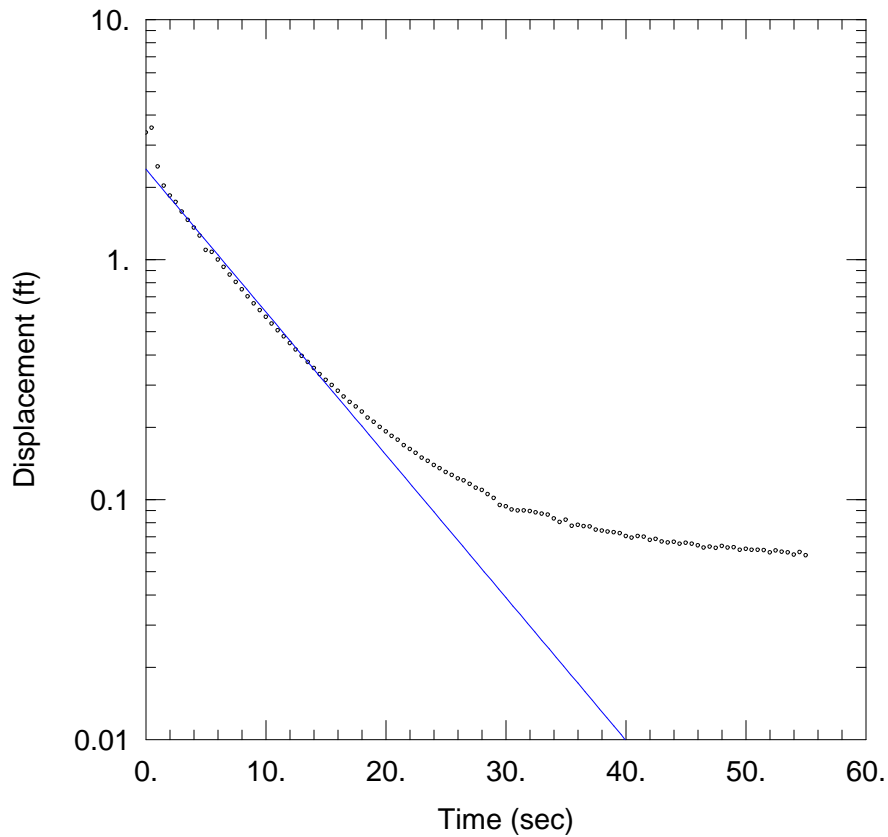
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 64.99 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW05-75 RISING HEAD TEST 4

Data Set: N:\...\721-MW05-75-RH4.aqt

Date: 05/09/13

Time: 09:10:27

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW05-75

Test Date: January 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.009068 cm/sec

y0 = 2.378 ft

AQUIFER DATA

Saturated Thickness: 9.9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW05-75)

Initial Displacement: 3.375 ft

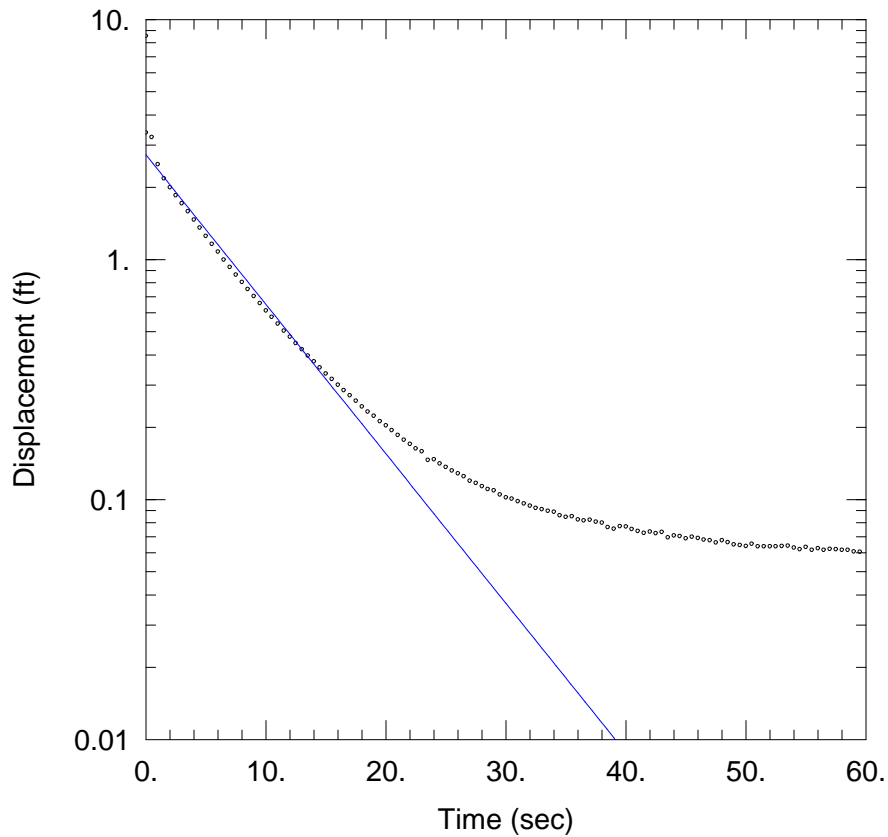
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 64.99 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW05-75 RISING HEAD TEST 5

Data Set: N:\...\721-MW05-75-RH5.aqt

Date: 05/09/13

Time: 09:10:14

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW05-75

Test Date: January 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.009496 cm/sec

y0 = 2.73 ft

AQUIFER DATA

Saturated Thickness: 9.9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW05-75)

Initial Displacement: 3.375 ft

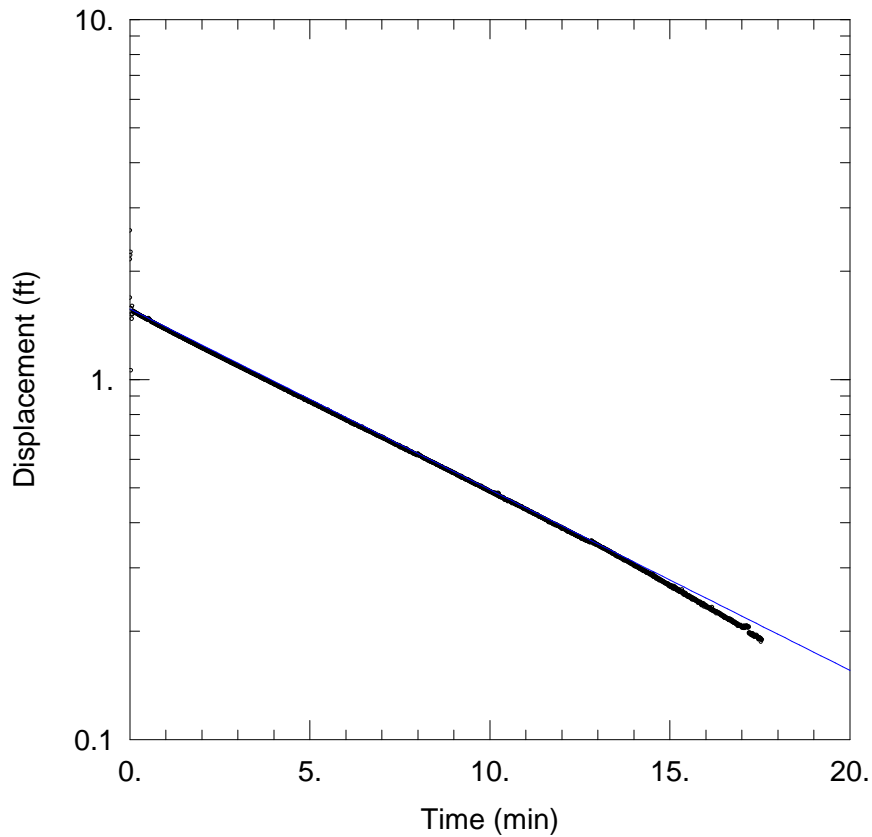
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 64.99 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW10-75 FALLING HEAD TEST 1

Data Set: N:\...\721-MW10-75-FH1.aqt

Date: 05/10/13

Time: 11:32:47

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW10-75

Test Date: January 30, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0001735 cm/sec

y0 = 1.571 ft

AQUIFER DATA

Saturated Thickness: 6.95 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW10-75)

Initial Displacement: 1.688 ft

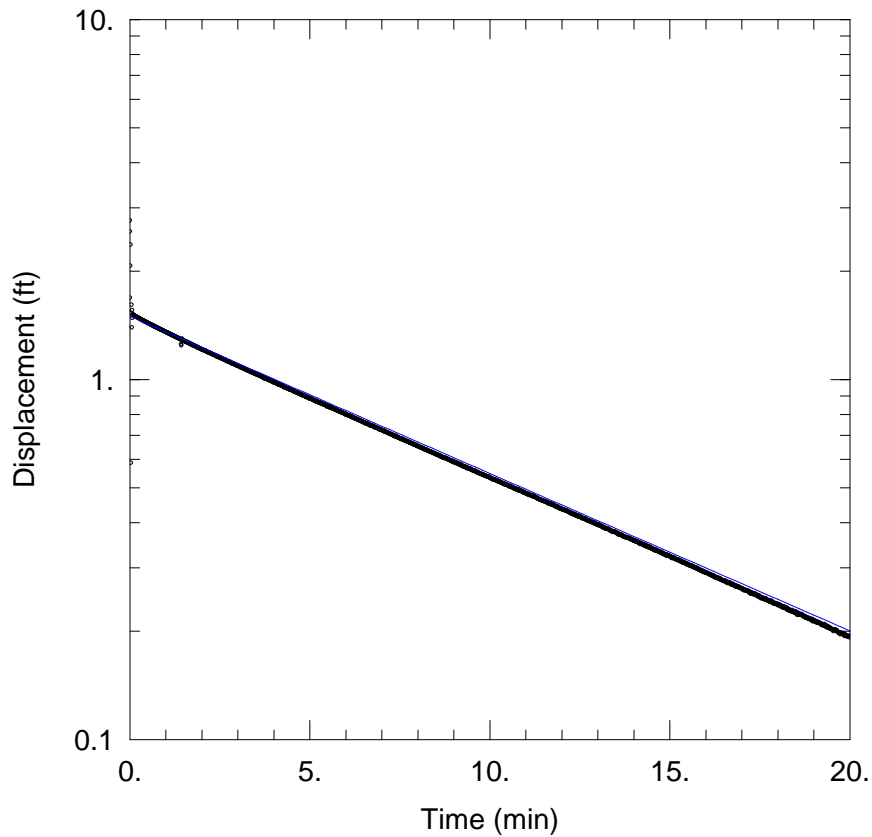
Total Well Penetration Depth: 6.95 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 62.38 ft

Screen Length: 3.95 ft

Well Radius: 0.25 ft



721-MW10-75 FALLING HEAD TEST 2

Data Set: N:\...\721-MW10-75-FH2.aqt

Date: 05/10/13

Time: 11:32:35

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW10-75

Test Date: January 30, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0001511 cm/sec

y0 = 1.5 ft

AQUIFER DATA

Saturated Thickness: 6.95 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW10-75)

Initial Displacement: 1.688 ft

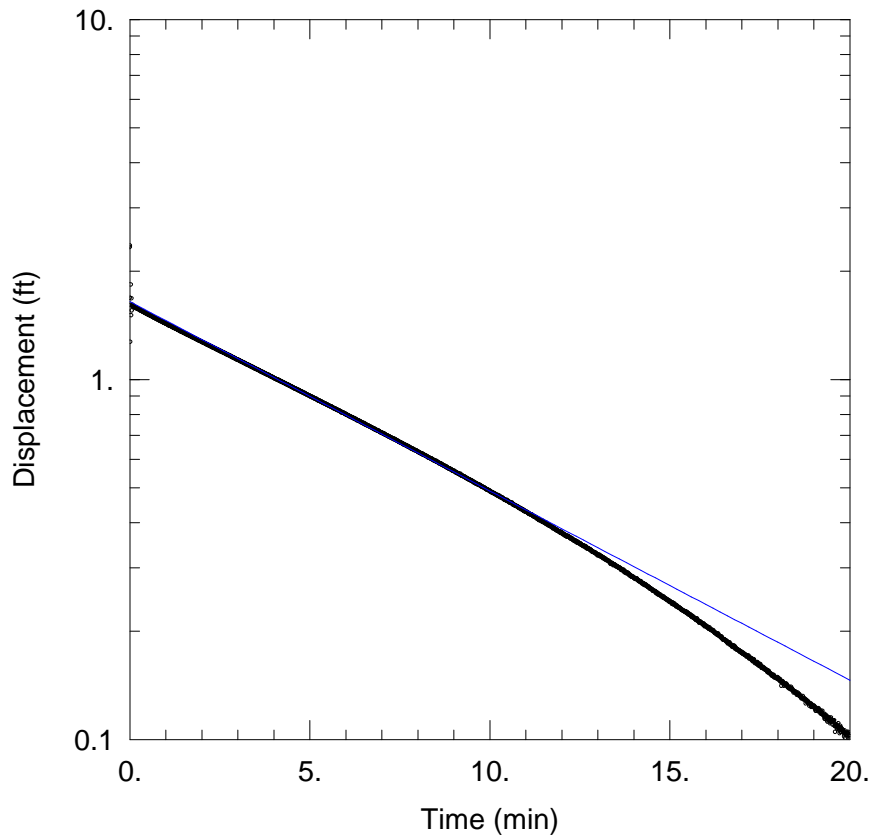
Total Well Penetration Depth: 6.95 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 62.38 ft

Screen Length: 3.95 ft

Well Radius: 0.25 ft



721-MW10-75 FALLING HEAD TEST 3

Data Set: N:\...\721-MW10-75-FH3.aqt

Date: 05/10/13

Time: 11:32:21

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW10-75

Test Date: January 31, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0001817 cm/sec

y0 = 1.645 ft

AQUIFER DATA

Saturated Thickness: 6.95 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW10-75)

Initial Displacement: 1.688 ft

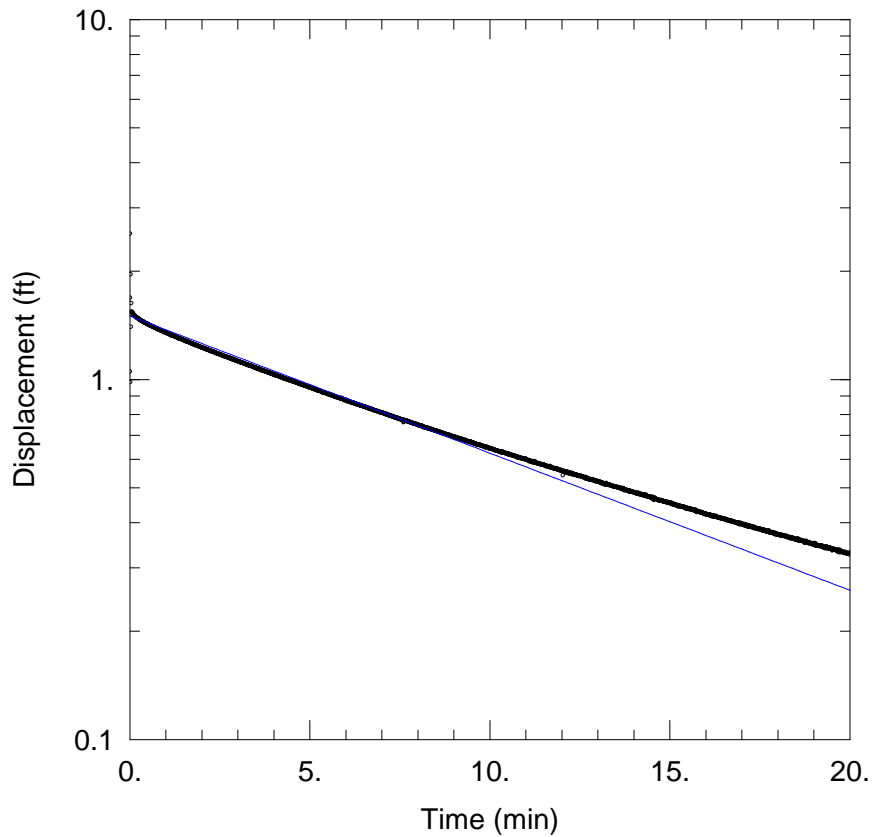
Total Well Penetration Depth: 6.95 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 62.38 ft

Screen Length: 3.95 ft

Well Radius: 0.25 ft



721-MW10-75 RISING HEAD TEST 1

Data Set: N:\...\721-MW10-75-RH1.aqt

Date: 05/10/13

Time: 11:32:09

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW10-75

Test Date: January 30, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0001316 cm/sec

y0 = 1.5 ft

AQUIFER DATA

Saturated Thickness: 6.95 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW10-75)

Initial Displacement: 1.688 ft

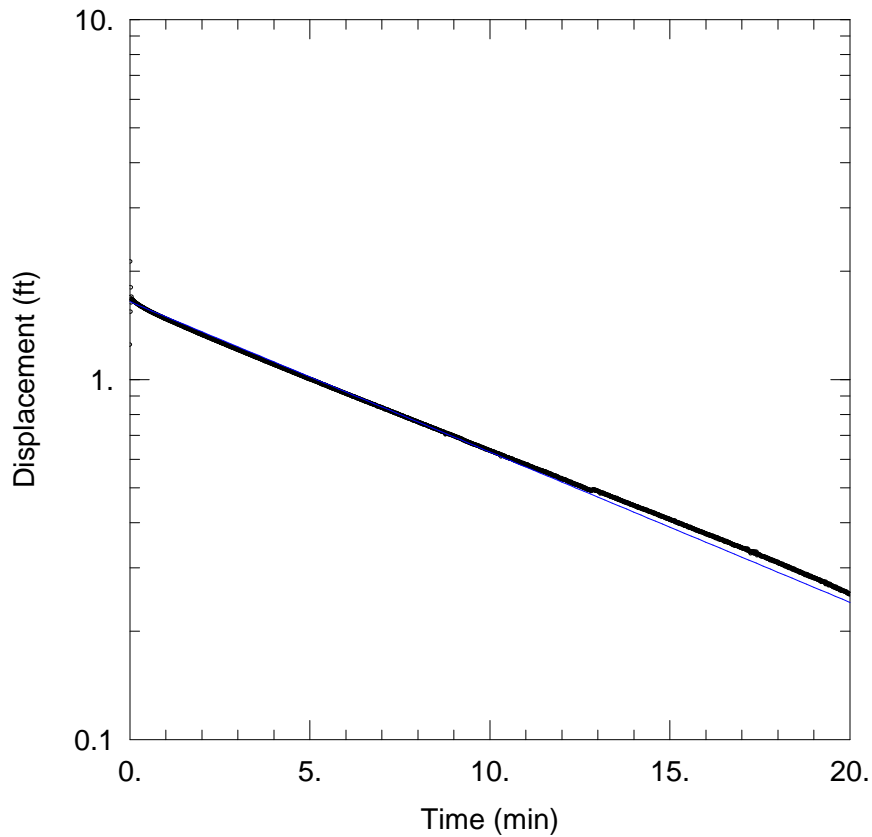
Total Well Penetration Depth: 6.95 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 62.38 ft

Screen Length: 3.95 ft

Well Radius: 0.25 ft



721-MW10-75 RISING HEAD TEST 2

Data Set: N:\...\721-MW10-75-RH2.aqt

Date: 05/10/13

Time: 11:31:55

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW10-75

Test Date: January 30, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0001443 cm/sec

y0 = 1.645 ft

AQUIFER DATA

Saturated Thickness: 6.95 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW10-75)

Initial Displacement: 1.688 ft

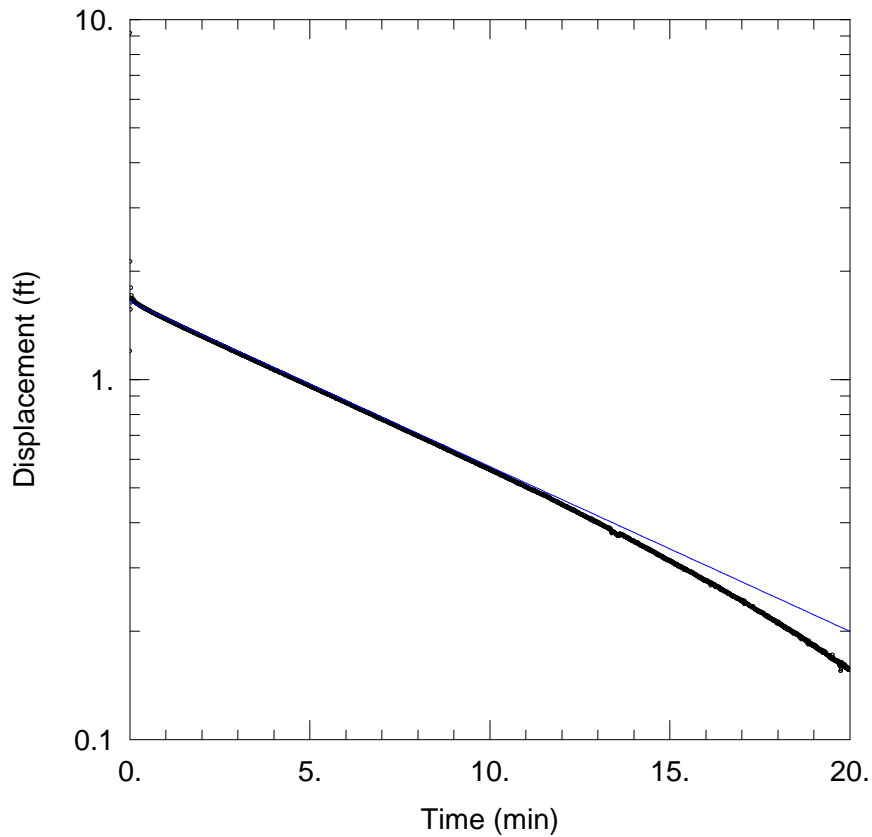
Total Well Penetration Depth: 6.95 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 62.38 ft

Screen Length: 3.95 ft

Well Radius: 0.25 ft



721-MW10-75 RISING HEAD TEST 3

Data Set: N:\...\721-MW10-75-RH3.aqt

Date: 05/10/13

Time: 11:31:43

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW10-75

Test Date: January 31, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0001583 cm/sec

y0 = 1.645 ft

AQUIFER DATA

Saturated Thickness: 6.95 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW10-75)

Initial Displacement: 1.688 ft

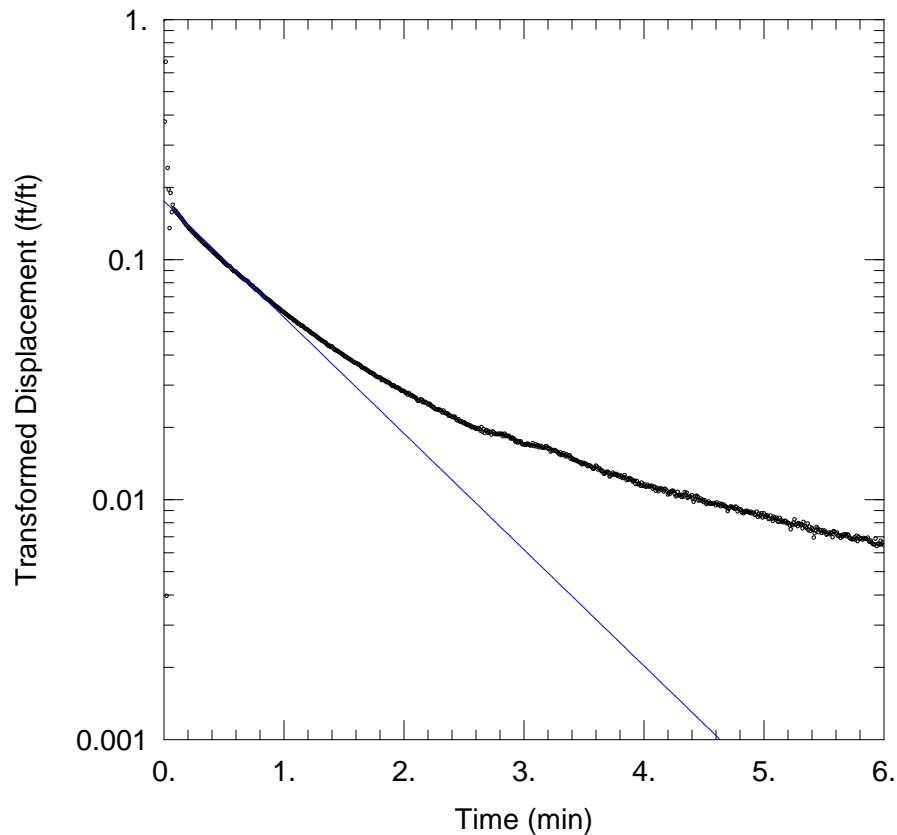
Total Well Penetration Depth: 6.95 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 62.38 ft

Screen Length: 3.95 ft

Well Radius: 0.25 ft



721-MW11-15 RISING HEAD TEST 1

Data Set: N:\...\721-MW11-15-RH1.aqt

Date: 05/13/13

Time: 14:57:50

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-15

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.002395 cm/sec

y0 = 0.718 ft

AQUIFER DATA

Saturated Thickness: 9.76 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW11-15)

Initial Displacement: 3.375 ft

Total Well Penetration Depth: 7.91 ft

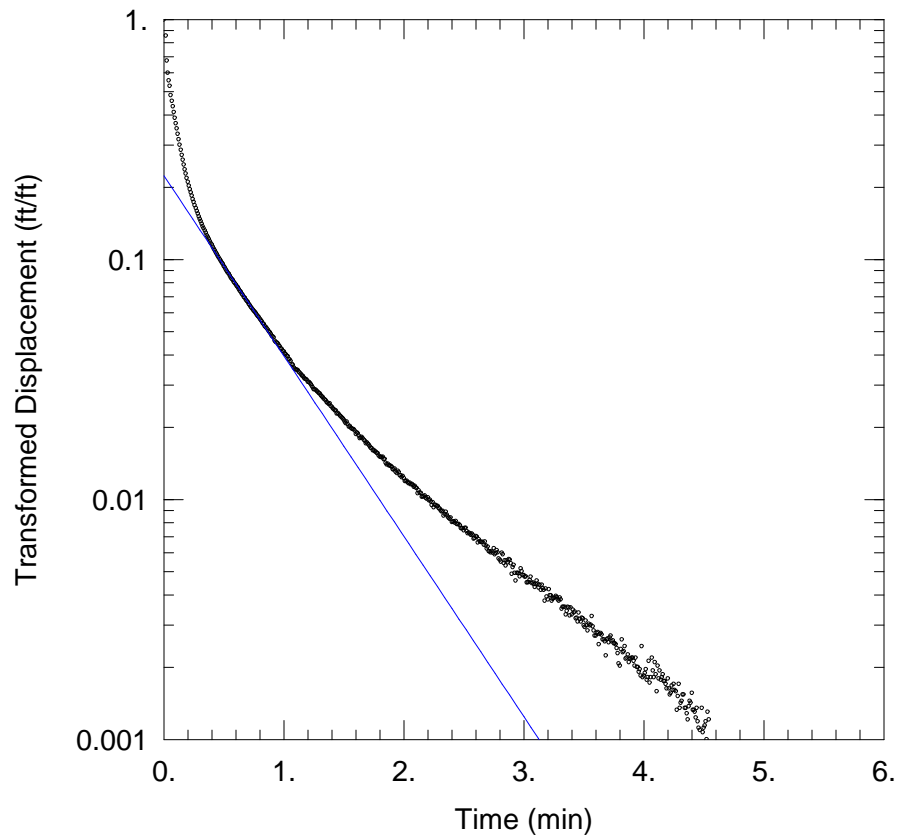
Casing Radius: 0.0835 ft

Static Water Column Height: 7.91 ft

Screen Length: 7.91 ft

Well Radius: 0.25 ft

Gravel Pack Porosity: 0.3



721-MW11-15 RISING HEAD TEST 2

Data Set: N:\...\721-MW11-15-RH2.aqt

Date: 05/13/13

Time: 14:59:28

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-15

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.003717 cm/sec

y0 = 0.9039 ft

AQUIFER DATA

Saturated Thickness: 9.76 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW11-15)

Initial Displacement: 3.375 ft

Total Well Penetration Depth: 7.91 ft

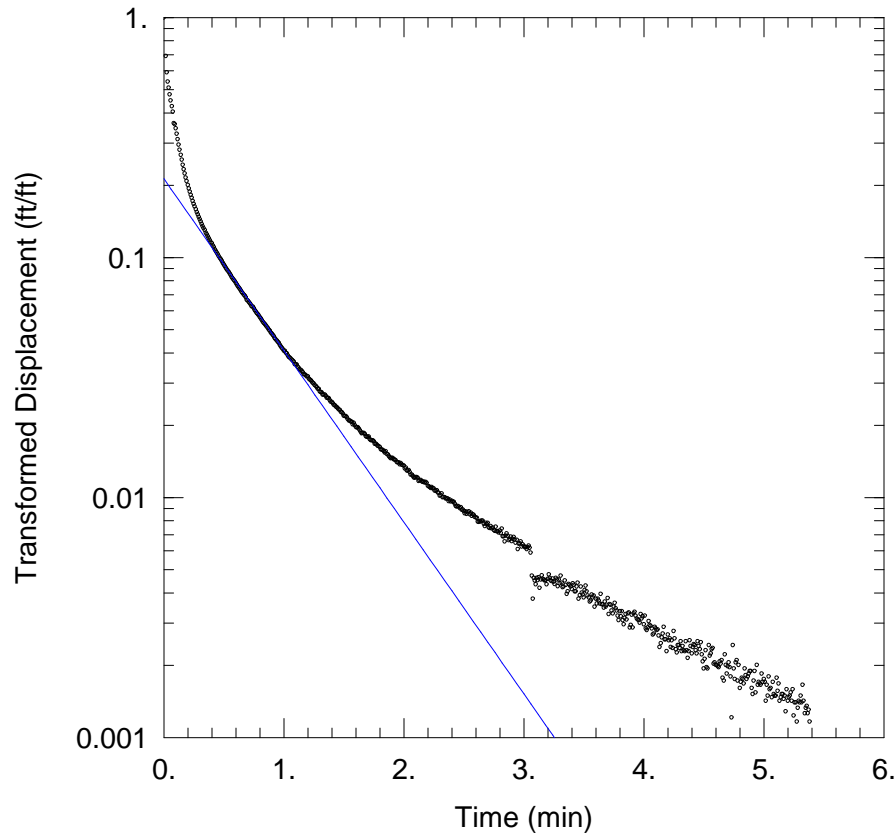
Casing Radius: 0.0835 ft

Static Water Column Height: 7.91 ft

Screen Length: 7.91 ft

Well Radius: 0.25 ft

Gravel Pack Porosity: 0.3



721-MW11-15 RISING HEAD TEST 3

Data Set: N:\...\721-MW11-15-RH3.aqt

Date: 05/13/13

Time: 15:00:00

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-15

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.00354 cm/sec

y0 = 0.8632 ft

AQUIFER DATA

Saturated Thickness: 9.76 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW11-15)

Initial Displacement: 3.375 ft

Total Well Penetration Depth: 7.91 ft

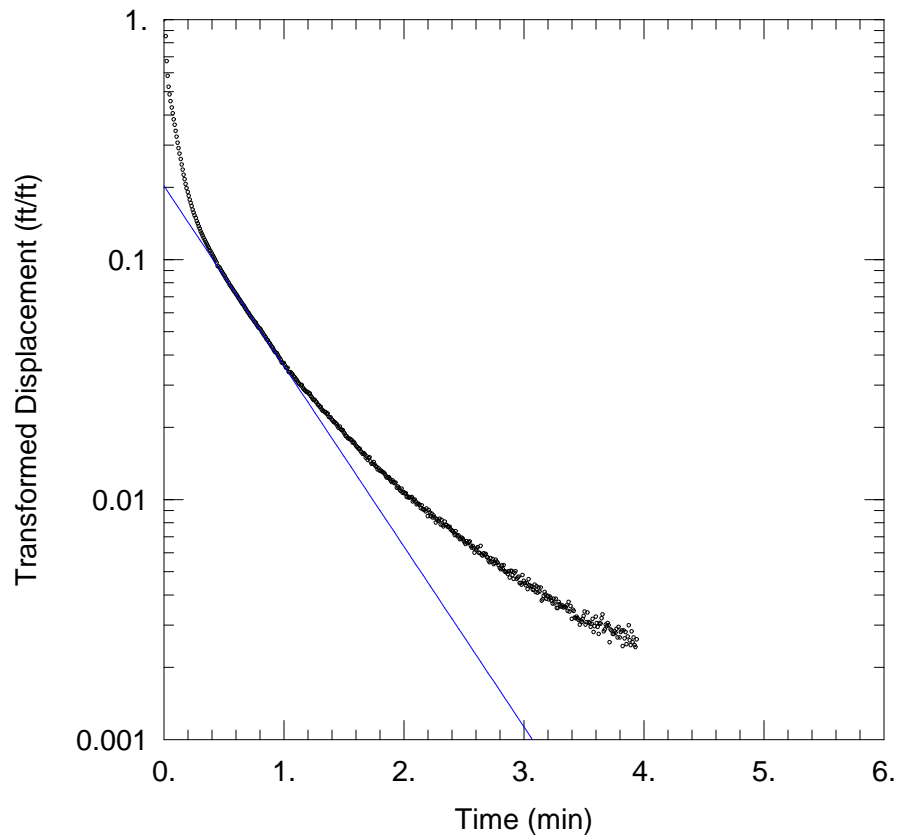
Casing Radius: 0.0835 ft

Static Water Column Height: 7.91 ft

Screen Length: 7.91 ft

Well Radius: 0.25 ft

Gravel Pack Porosity: 0.3



721-MW11-15 RISING HEAD TEST 4

Data Set: N:\...\721-MW11-15-RH4.aqt

Date: 05/13/13

Time: 15:00:32

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-15

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.003717 cm/sec

y0 = 0.8244 ft

AQUIFER DATA

Saturated Thickness: 9.76 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW11-15)

Initial Displacement: 3.375 ft

Total Well Penetration Depth: 7.91 ft

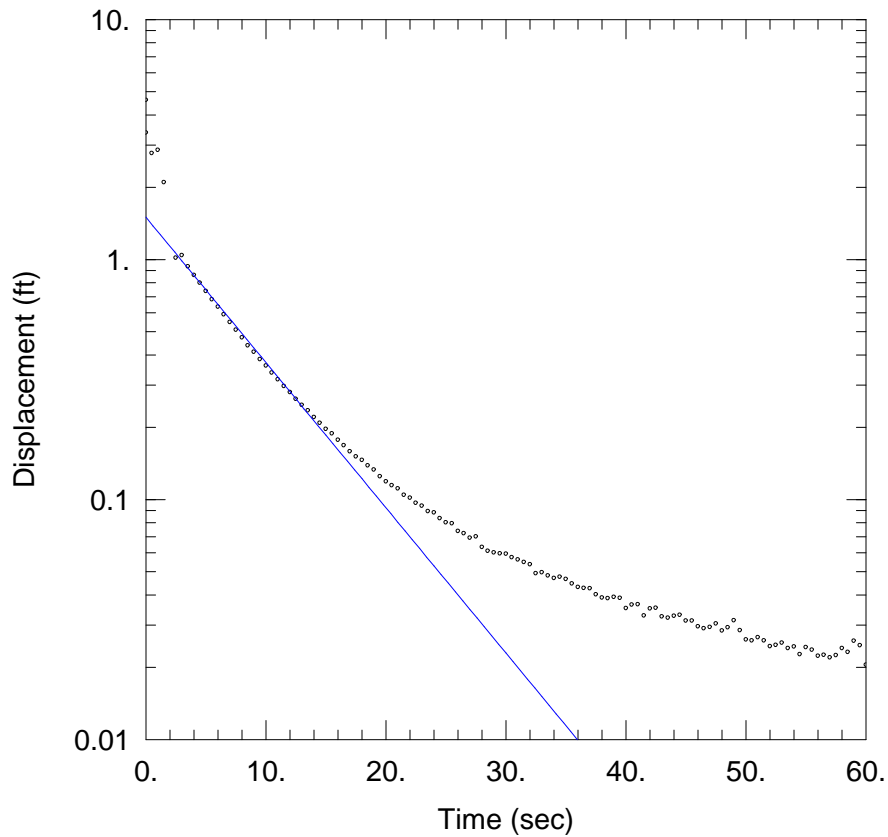
Casing Radius: 0.0835 ft

Static Water Column Height: 7.91 ft

Screen Length: 7.91 ft

Well Radius: 0.25 ft

Gravel Pack Porosity: 0.3



721-MW11-25 FALLING HEAD TEST 1

Data Set: N:\...\721-MW11-25-FH1.aqt

Date: 05/09/13

Time: 14:19:59

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-25

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.009068 cm/sec

y0 = 1.5 ft

AQUIFER DATA

Saturated Thickness: 8.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW11-25)

Initial Displacement: 3.375 ft

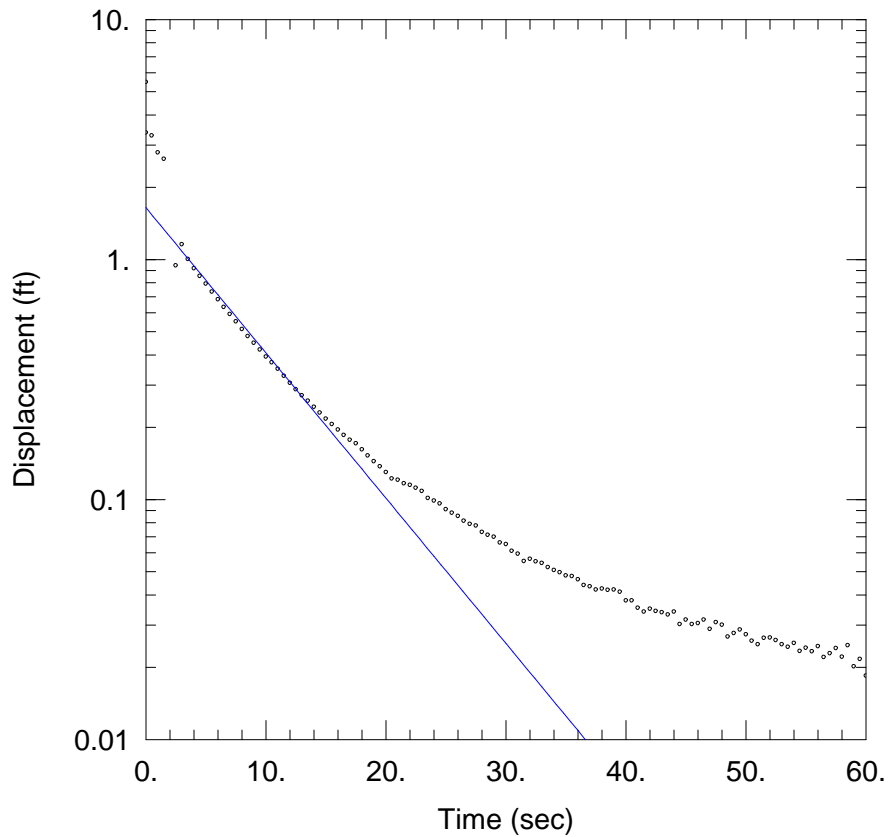
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.49 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW11-25 FALLING HEAD TEST 2

Data Set: N:\...\721-MW11-25-FH2.aqt

Date: 05/09/13

Time: 14:19:46

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-25

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.009068 cm/sec

y0 = 1.645 ft

AQUIFER DATA

Saturated Thickness: 8.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW11-25)

Initial Displacement: 3.375 ft

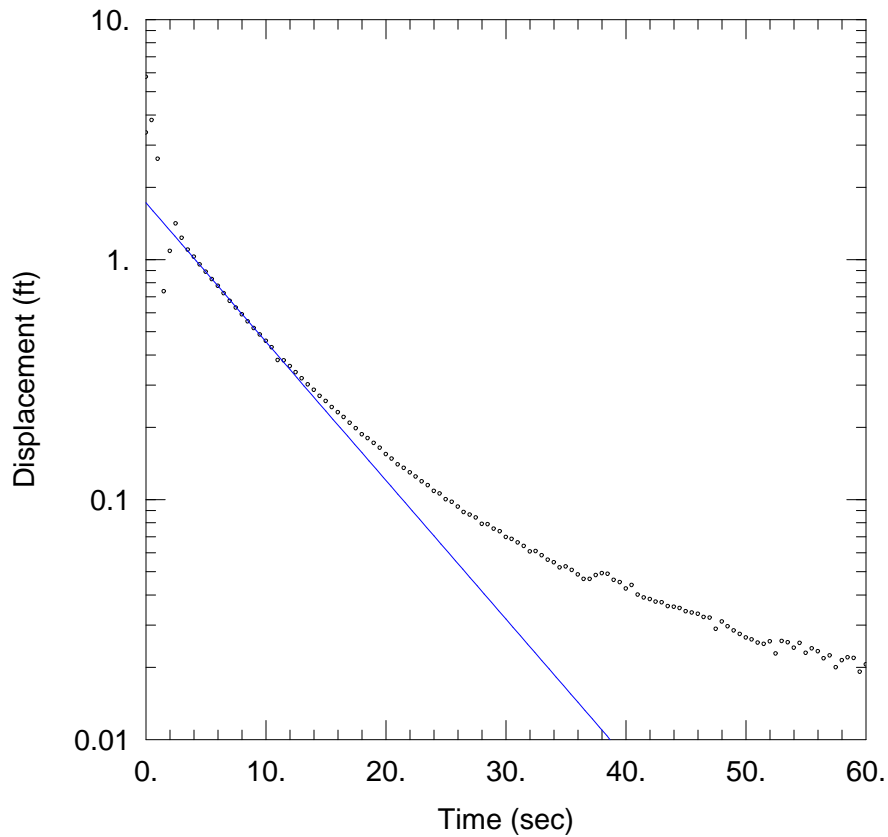
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.49 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW11-25 FALLING HEAD TEST 3

Data Set: N:\...\721-MW11-25-FH3.aqt

Date: 05/09/13

Time: 14:19:34

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-25

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.00866 cm/sec

y0 = 1.722 ft

AQUIFER DATA

Saturated Thickness: 8.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW11-25)

Initial Displacement: 3.375 ft

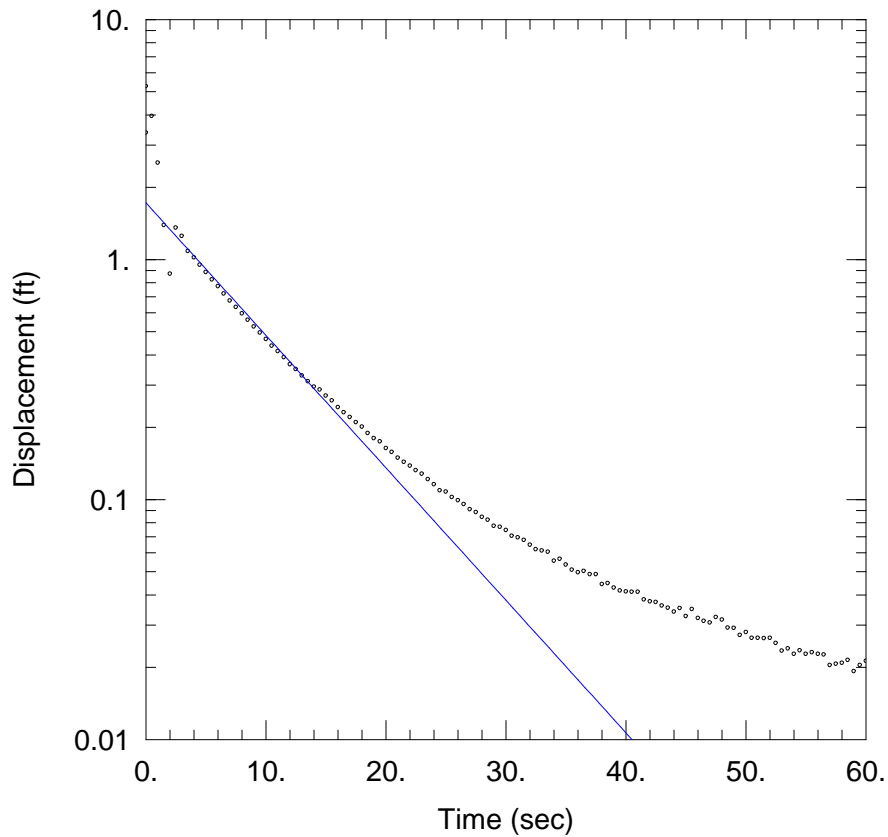
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.49 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW11-25 FALLING HEAD TEST 4

Data Set: N:\...\721-MW11-25-FH4.aqt

Date: 05/09/13

Time: 14:19:20

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-25

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.00827 cm/sec

y0 = 1.722 ft

AQUIFER DATA

Saturated Thickness: 8.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW11-25)

Initial Displacement: 3.375 ft

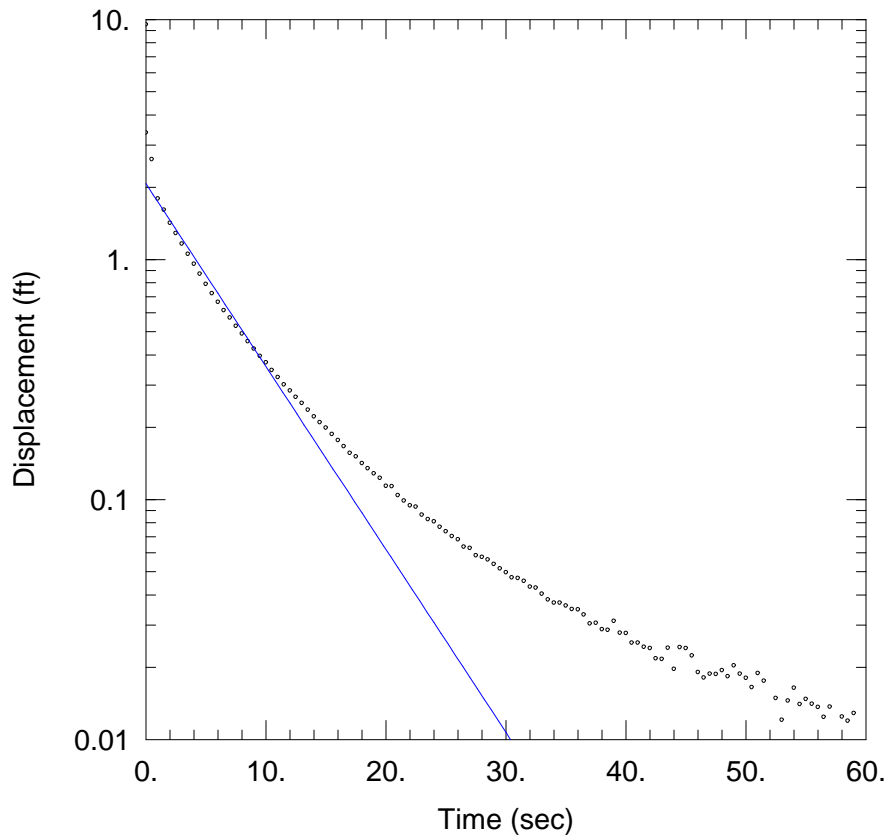
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.49 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW11-25 RISING HEAD TEST 1

Data Set: N:\...\721-MW11-25-RH1.aqt

Date: 05/09/13

Time: 14:22:54

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-25

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01142 cm/sec

y0 = 2.071 ft

AQUIFER DATA

Saturated Thickness: 8.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW11-25)

Initial Displacement: 3.375 ft

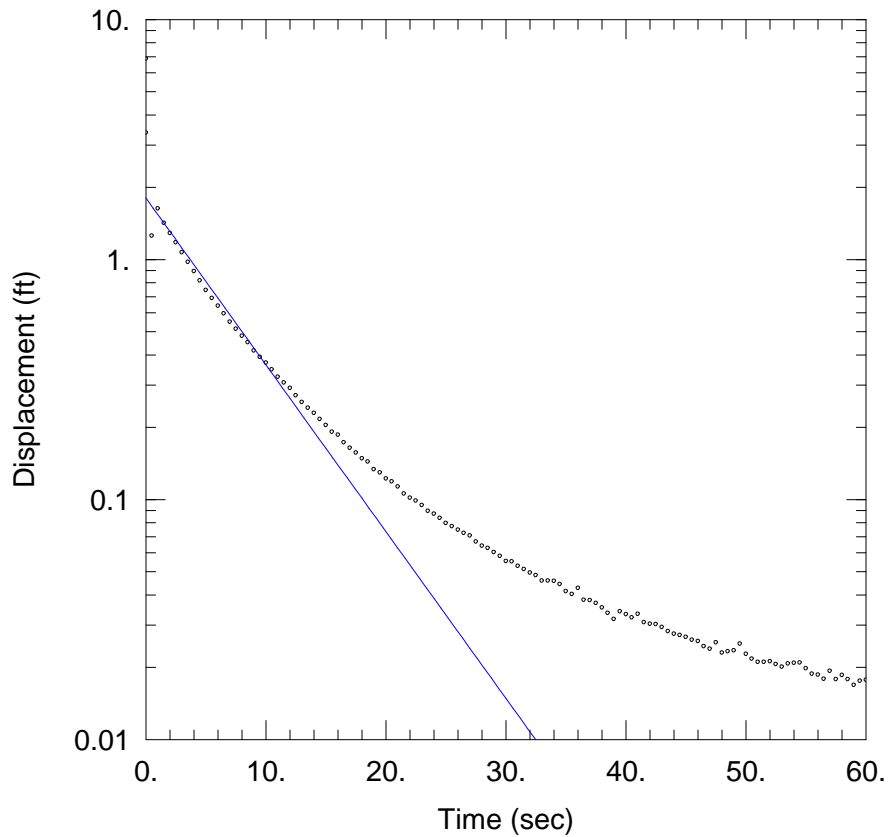
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.49 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW11-25 RISING HEAD TEST 2

Data Set: N:\...\721-MW11-25-RH2.aqt

Date: 05/09/13

Time: 14:22:42

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-25

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01041 cm/sec

y0 = 1.804 ft

AQUIFER DATA

Saturated Thickness: 8.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW11-25)

Initial Displacement: 3.375 ft

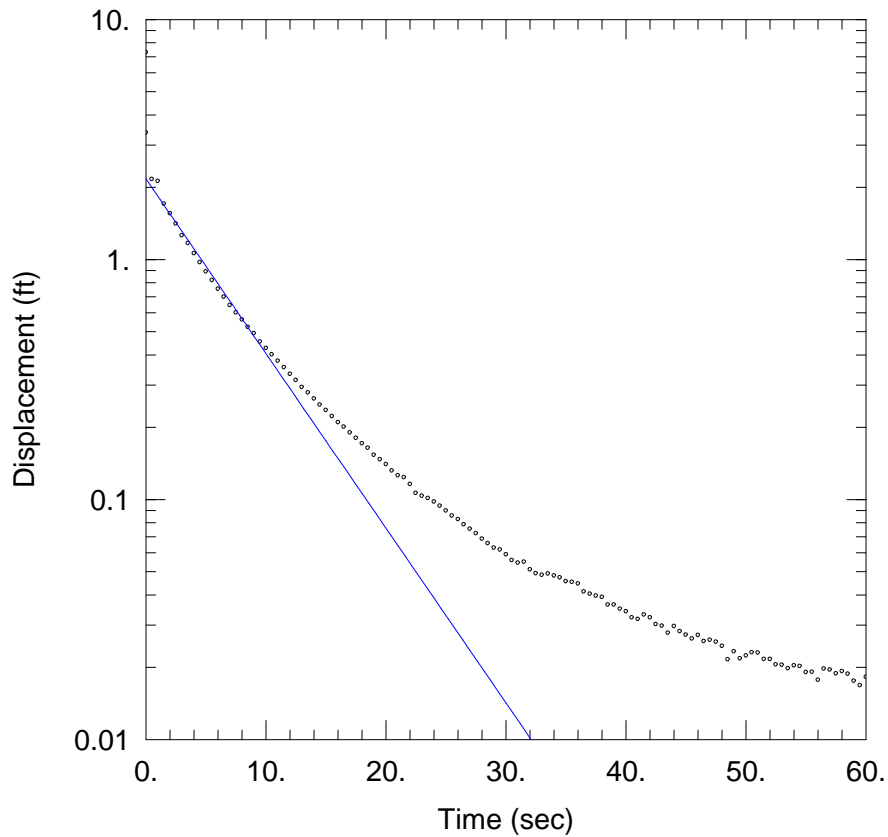
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.49 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW11-25 RISING HEAD TEST 3

Data Set: N:\...\721-MW11-25-RH3.aqt

Date: 05/09/13

Time: 14:22:30

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-25

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0109 cm/sec

y0 = 2.168 ft

AQUIFER DATA

Saturated Thickness: 8.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW11-25)

Initial Displacement: 3.375 ft

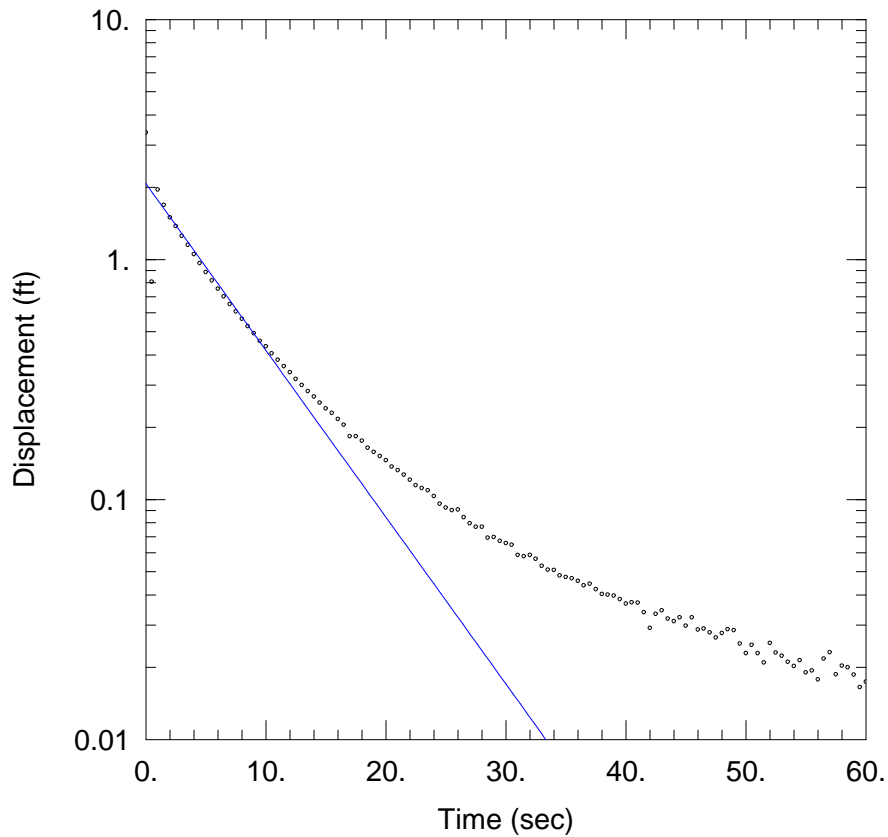
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.49 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW11-25 RISING HEAD TEST 4

Data Set: N:\...\721-MW11-25-RH4.aqt

Date: 05/09/13

Time: 14:22:18

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-25

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01041 cm/sec

y0 = 2.071 ft

AQUIFER DATA

Saturated Thickness: 8.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW11-25)

Initial Displacement: 3.375 ft

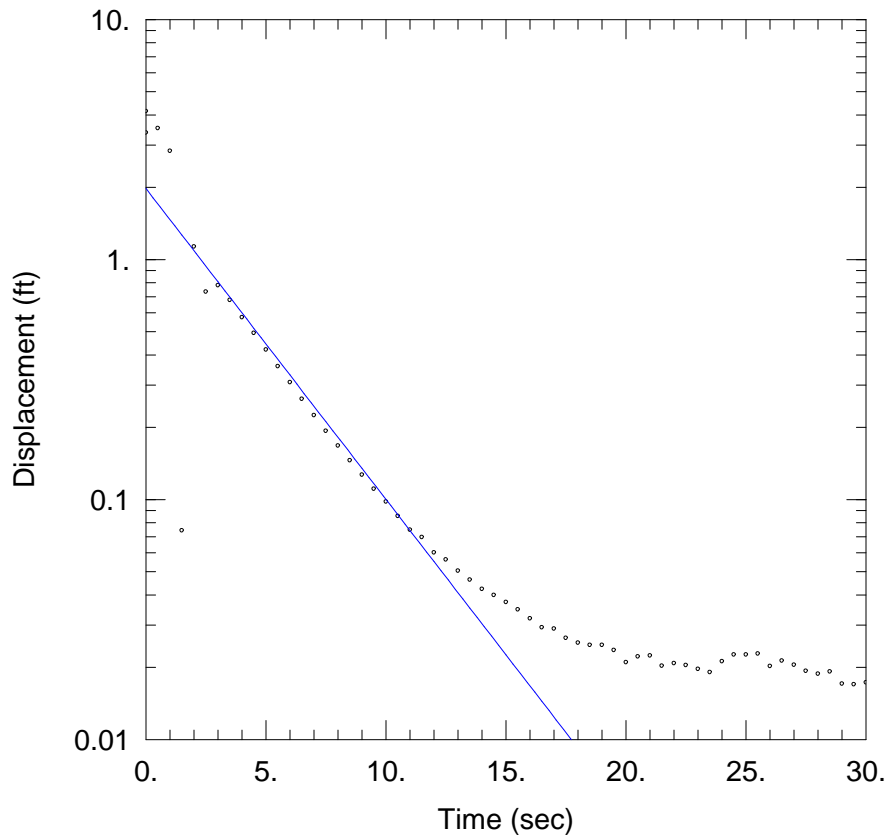
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.49 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW11-50 FALLING HEAD TEST 1

Data Set: N:\...\721-MW11-50-FH1.aqt

Date: 05/10/13

Time: 11:50:44

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-50

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01984 cm/sec

y0 = 1.978 ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW11-50)

Initial Displacement: 3.375 ft

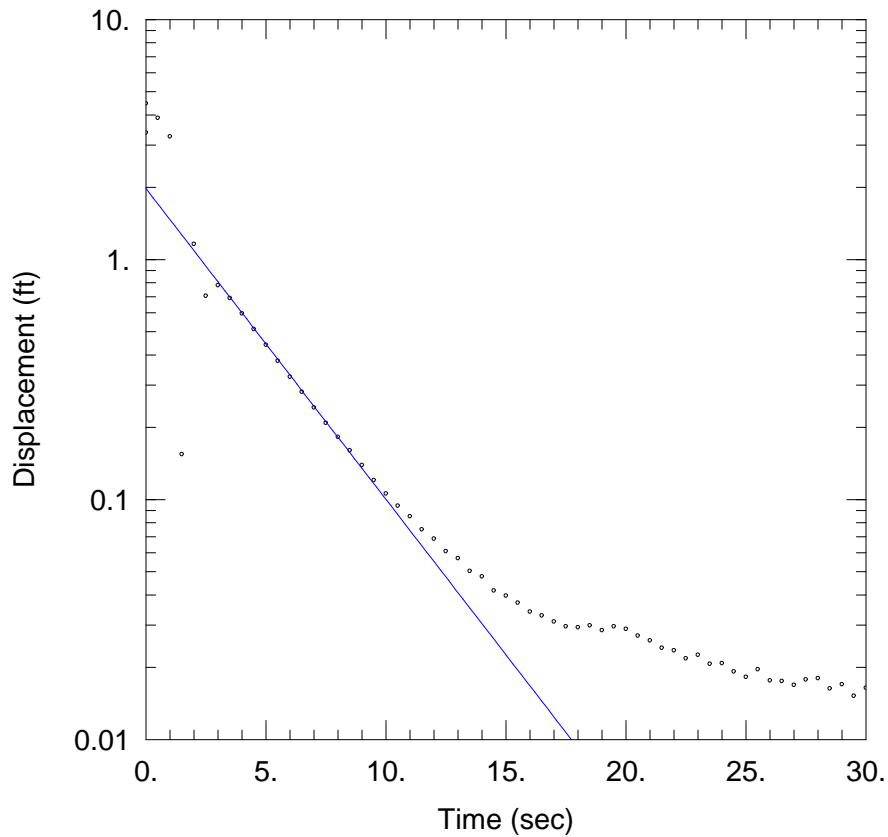
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 38.82 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW11-50 FALLING HEAD TEST 2

Data Set: N:\...\721-MW11-50-FH2.aqt

Date: 05/10/13

Time: 11:50:32

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-50

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01984 cm/sec

y0 = 1.978 ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW11-50)

Initial Displacement: 3.375 ft

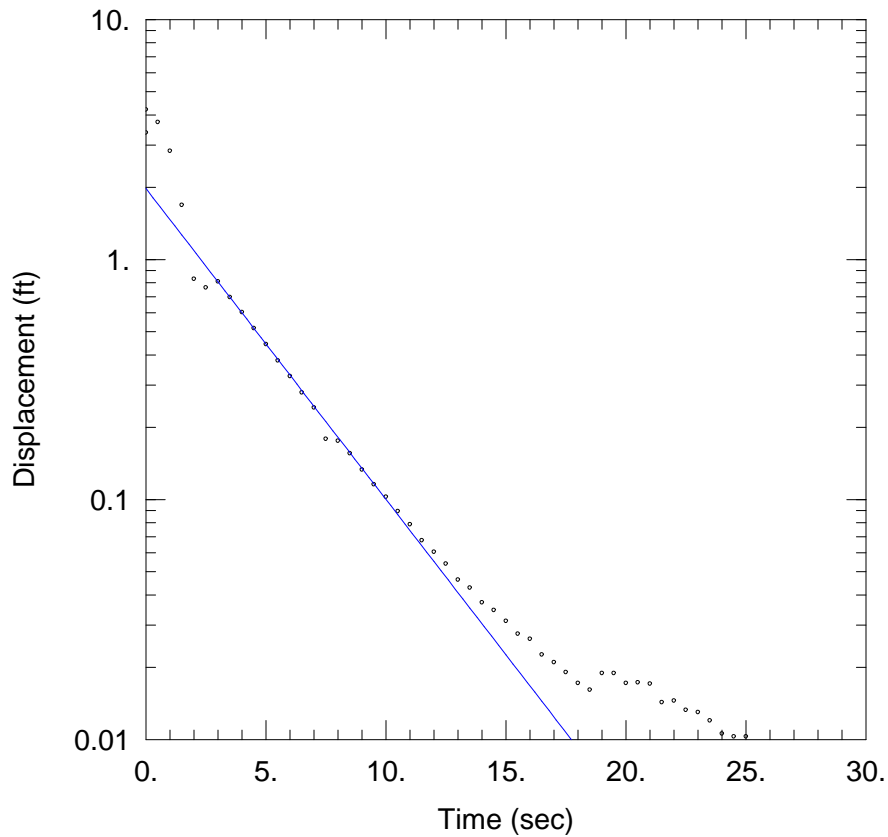
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 38.82 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW11-50 FALLING HEAD TEST 3

Data Set: N:\...\721-MW11-50-FH3.aqt

Date: 05/10/13

Time: 11:50:20

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-50

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01984 cm/sec

y0 = 1.978 ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW11-50)

Initial Displacement: 3.375 ft

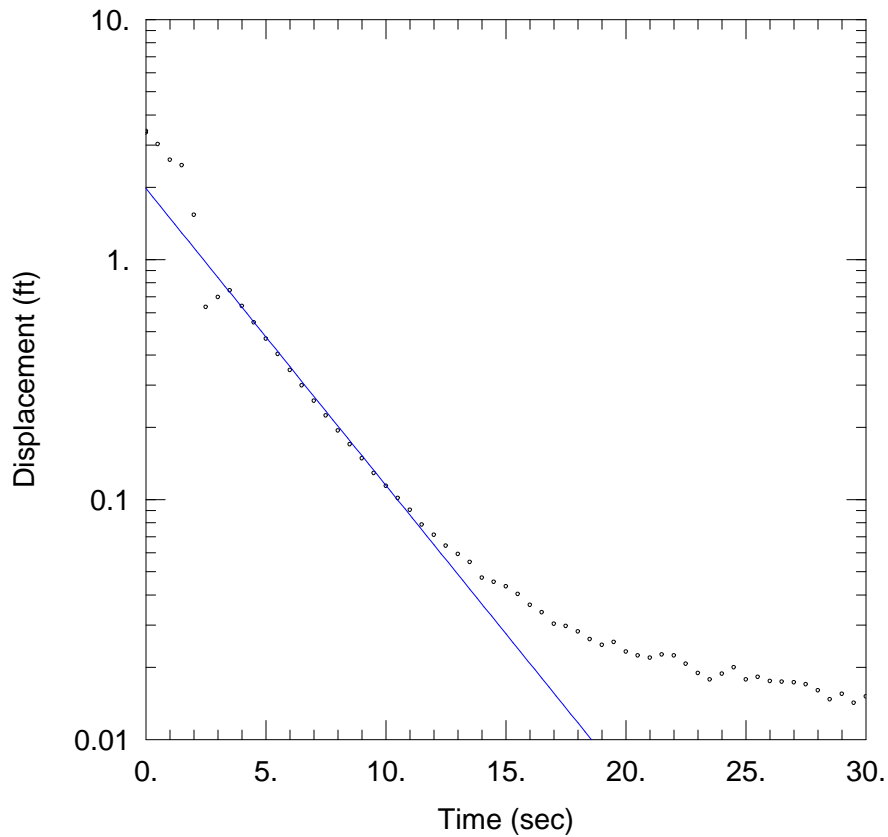
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 38.82 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW11-50 FALLING HEAD TEST 4

Data Set: N:\...\721-MW11-50-FH4.aqt

Date: 05/10/13

Time: 11:50:09

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-50

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01895 cm/sec

y0 = 1.978 ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW11-50)

Initial Displacement: 3.375 ft

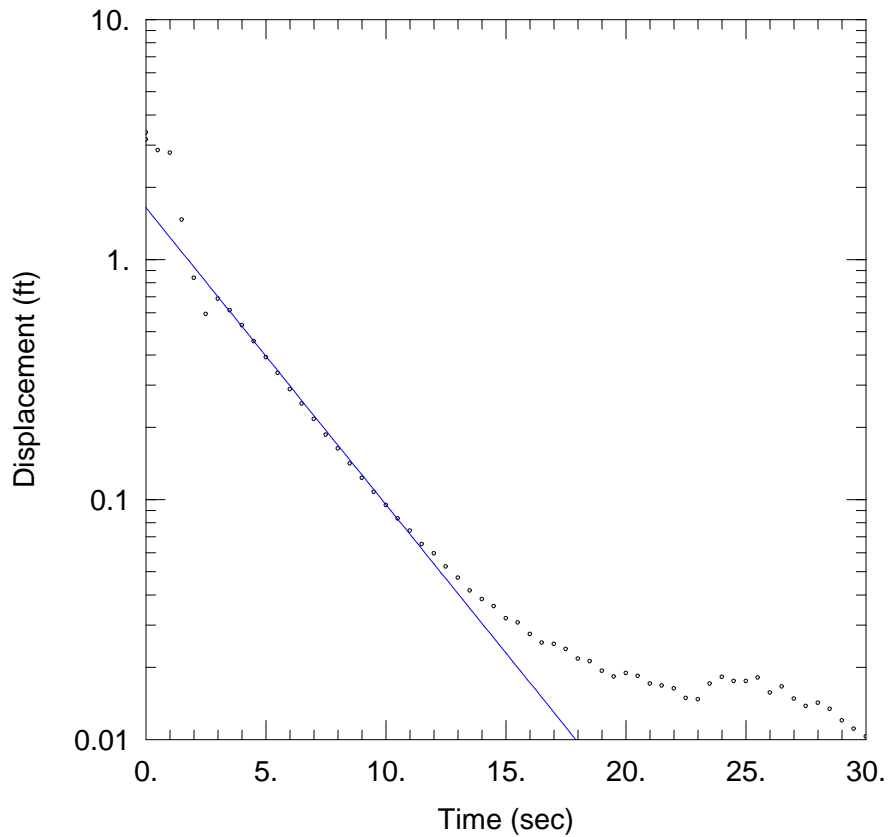
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 38.82 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW11-50 FALLING HEAD TEST 5

Data Set: N:\...\721-MW11-50-FH5.aqt

Date: 05/10/13

Time: 11:49:55

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-50

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01895 cm/sec

y0 = 1.645 ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW11-50)

Initial Displacement: 3.375 ft

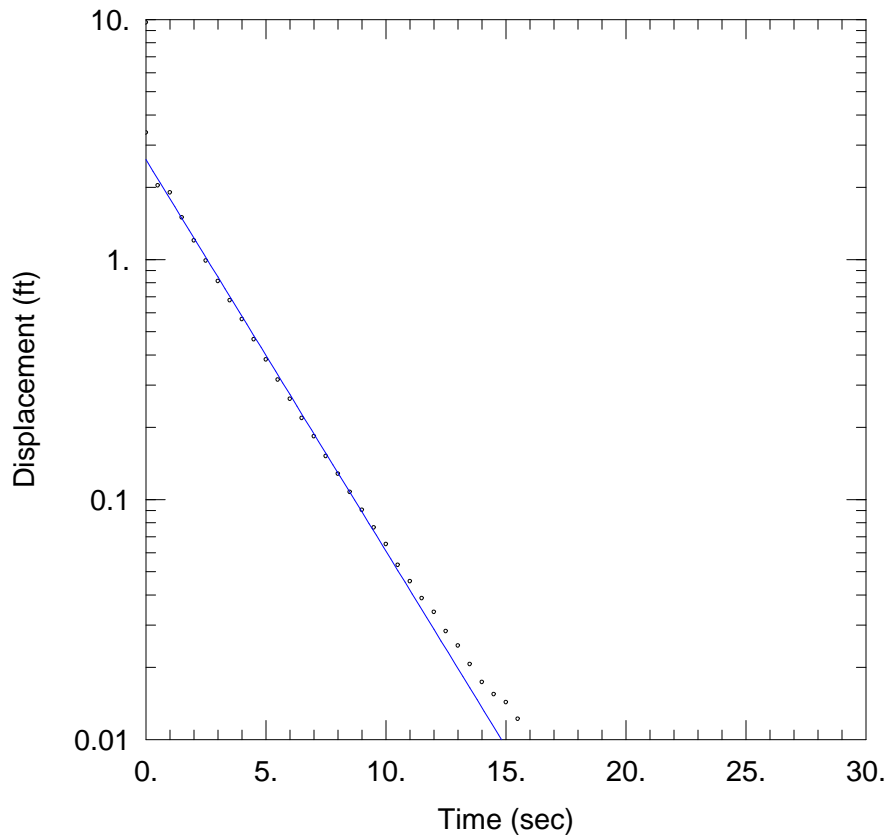
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 38.82 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW11-50 RISING HEAD TEST 1

Data Set: N:\...\721-MW11-50-RH1.aqt

Date: 05/10/13

Time: 11:52:49

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-50

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.02498 cm/sec

y0 = 2.607 ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW11-50)

Initial Displacement: 3.375 ft

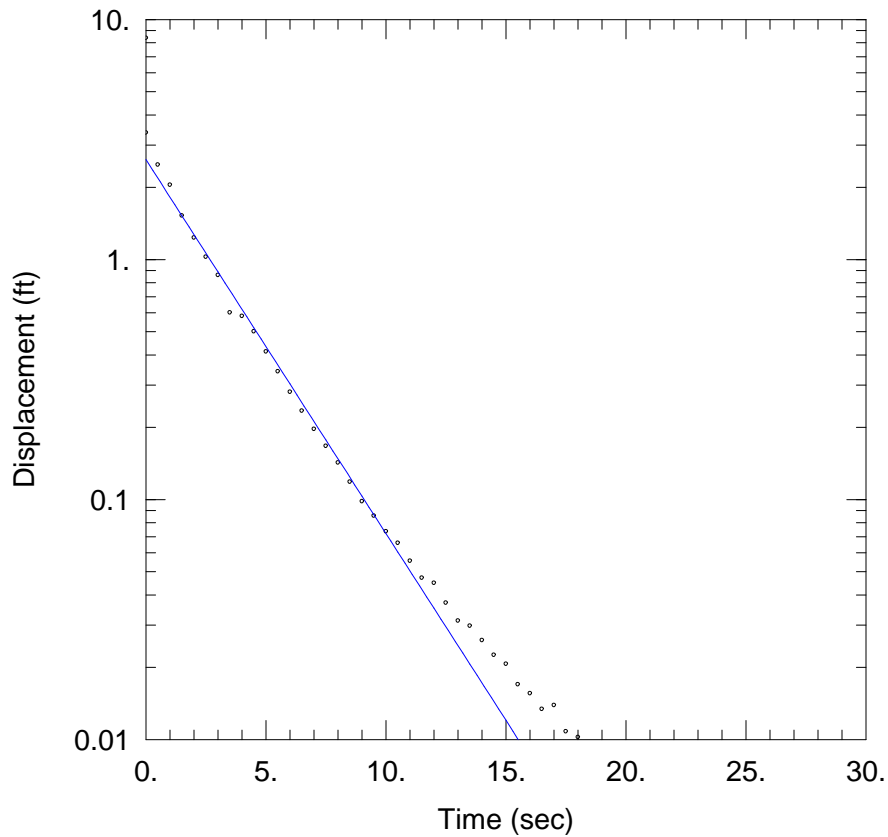
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 38.82 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW11-50 RISING HEAD TEST 2

Data Set: N:\...\721-MW11-50-RH2.aqt

Date: 05/10/13

Time: 11:52:38

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-50

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.02385 cm/sec

y0 = 2.607 ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW11-50)

Initial Displacement: 3.375 ft

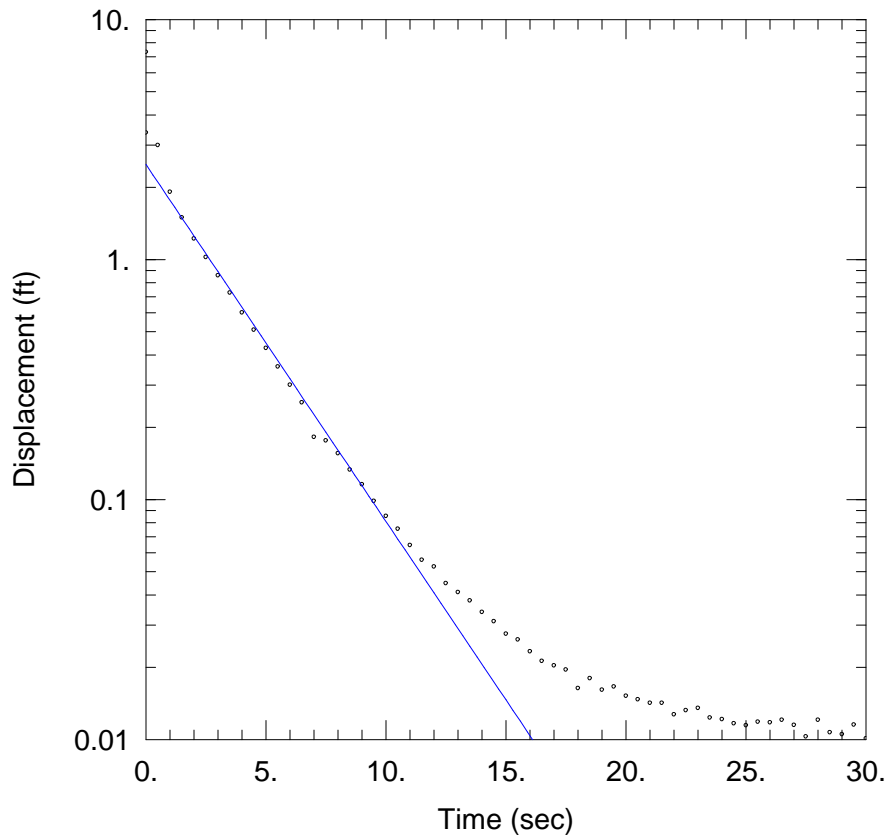
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 38.82 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW11-50 RISING HEAD TEST 3

Data Set: N:\...\721-MW11-50-RH3.aqt

Date: 05/10/13

Time: 11:52:27

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-50

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.02278$ cm/sec

$y_0 = 2.49$ ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (721-MW11-50)

Initial Displacement: 3.375 ft

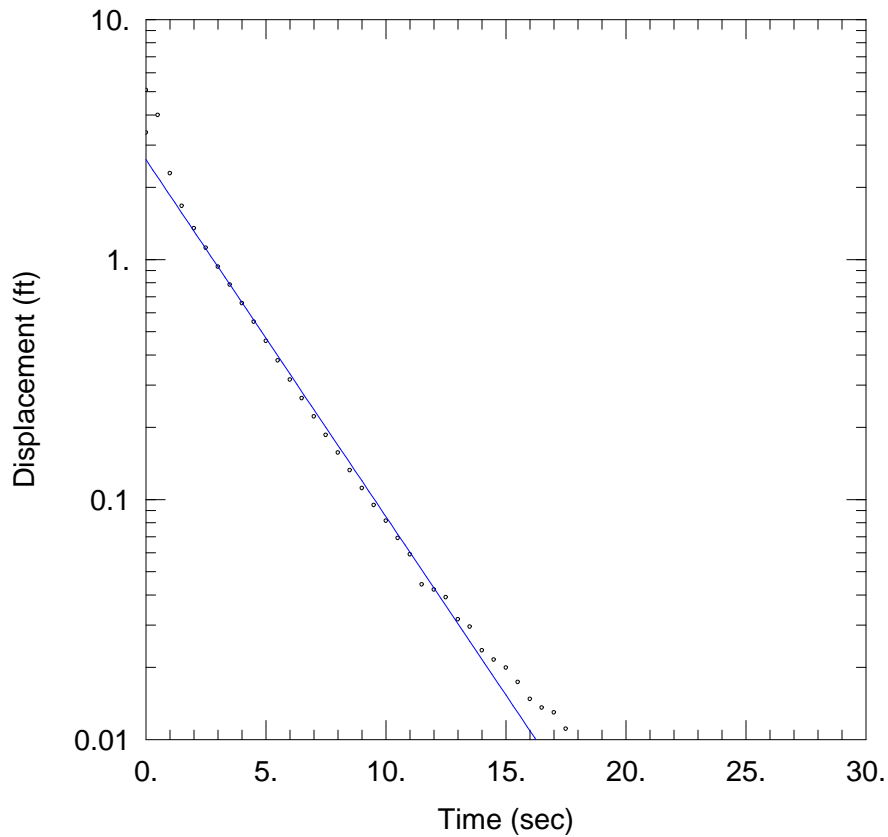
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 38.82 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW11-50 RISING HEAD TEST 4

Data Set: N:\...\721-MW11-50-RH4.aqt

Date: 05/10/13

Time: 11:52:16

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-50

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.02278$ cm/sec

$y_0 = 2.607$ ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (721-MW11-50)

Initial Displacement: 3.375 ft

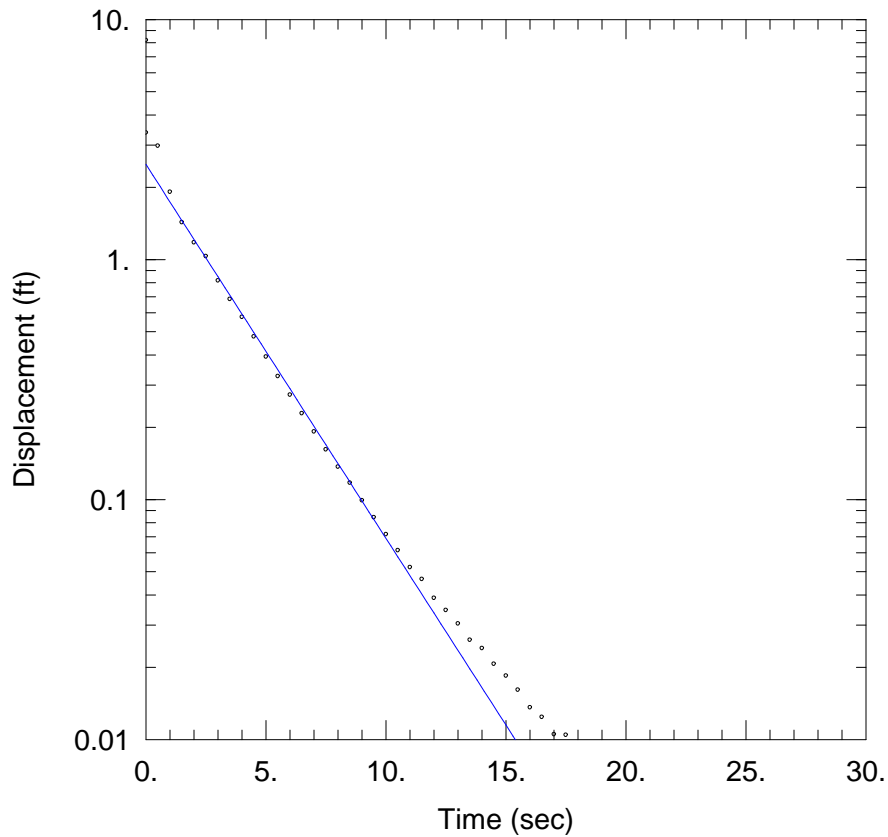
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 38.82 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW11-50 RISING HEAD TEST 5

Data Set: N:\...\721-MW11-50-RH5.aqt

Date: 05/10/13

Time: 11:52:03

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-50

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.02385 cm/sec

y0 = 2.49 ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW11-50)

Initial Displacement: 3.375 ft

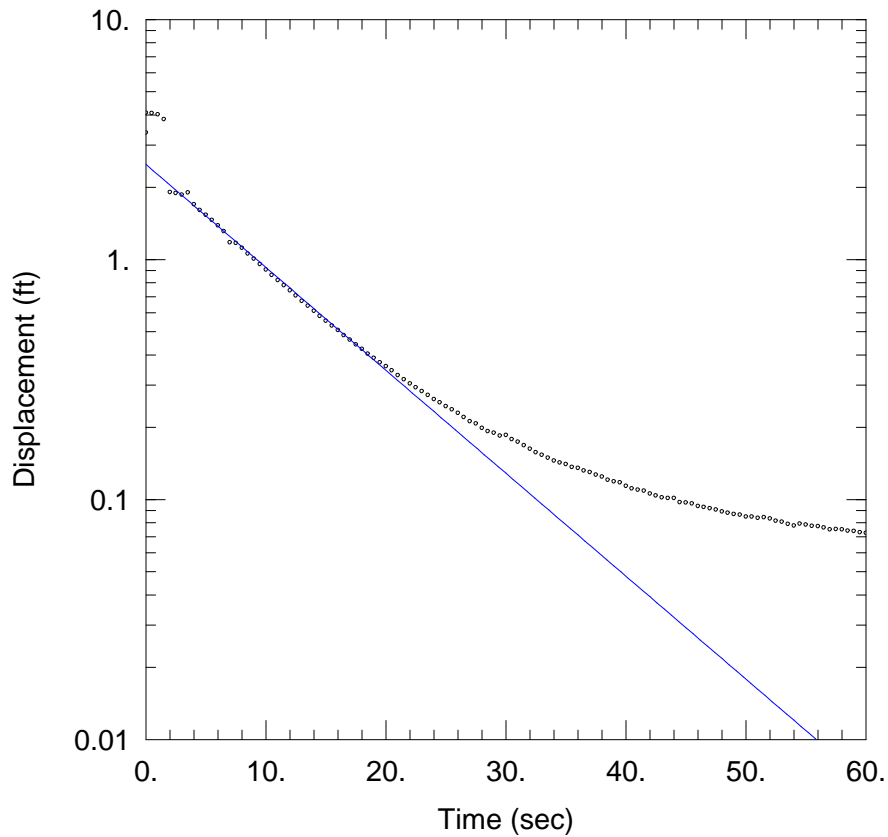
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 38.82 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW11-75 FALLING HEAD TEST 1

Data Set: N:\...\721-MW11-75-FH1.aqt

Date: 05/10/13

Time: 13:19:48

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-75

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.006569 cm/sec

y0 = 2.49 ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW11-75)

Initial Displacement: 3.375 ft

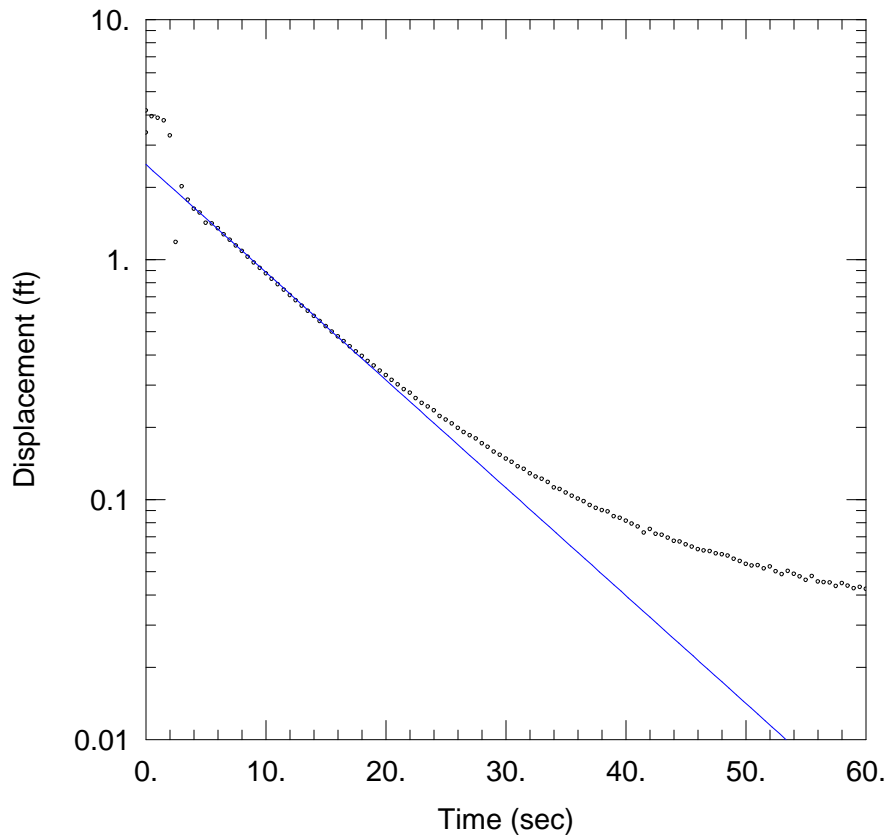
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 63.95 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW11-75 FALLING HEAD TEST 2

Data Set: N:\...\721-MW11-75-FH2.aqt

Date: 05/10/13

Time: 13:19:35

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-75

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.006879 cm/sec

y0 = 2.49 ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW11-75)

Initial Displacement: 3.375 ft

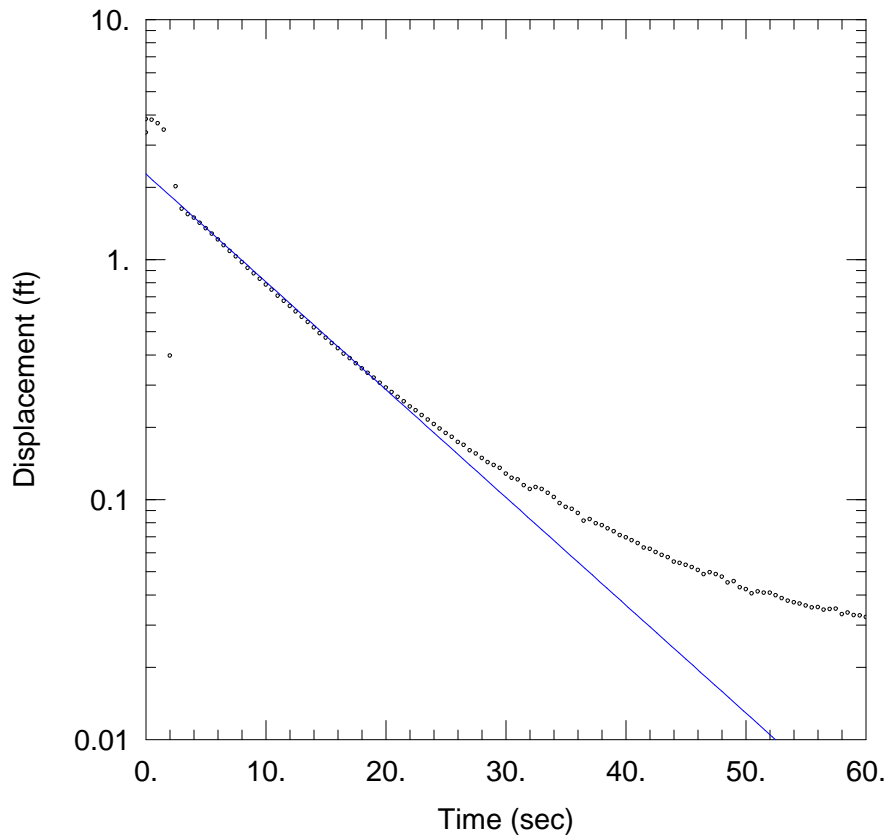
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 63.95 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW11-75 FALLING HEAD TEST 3

Data Set: N:\...\721-MW11-75-FH3.aqt

Date: 05/10/13

Time: 13:19:19

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-75

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.006879 cm/sec

y0 = 2.271 ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW11-75)

Initial Displacement: 3.375 ft

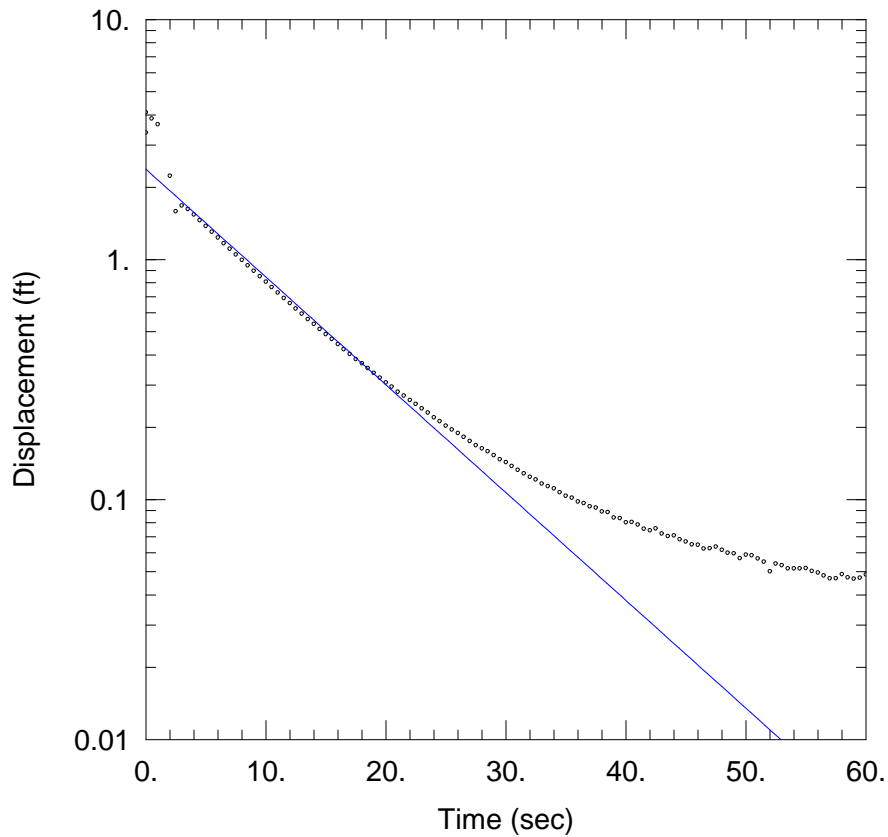
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 63.95 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW11-75 FALLING HEAD TEST 4

Data Set: N:\...\721-MW11-75-FH4.aqt

Date: 05/10/13

Time: 13:19:07

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-75

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.006879 cm/sec

y0 = 2.378 ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW11-75)

Initial Displacement: 3.375 ft

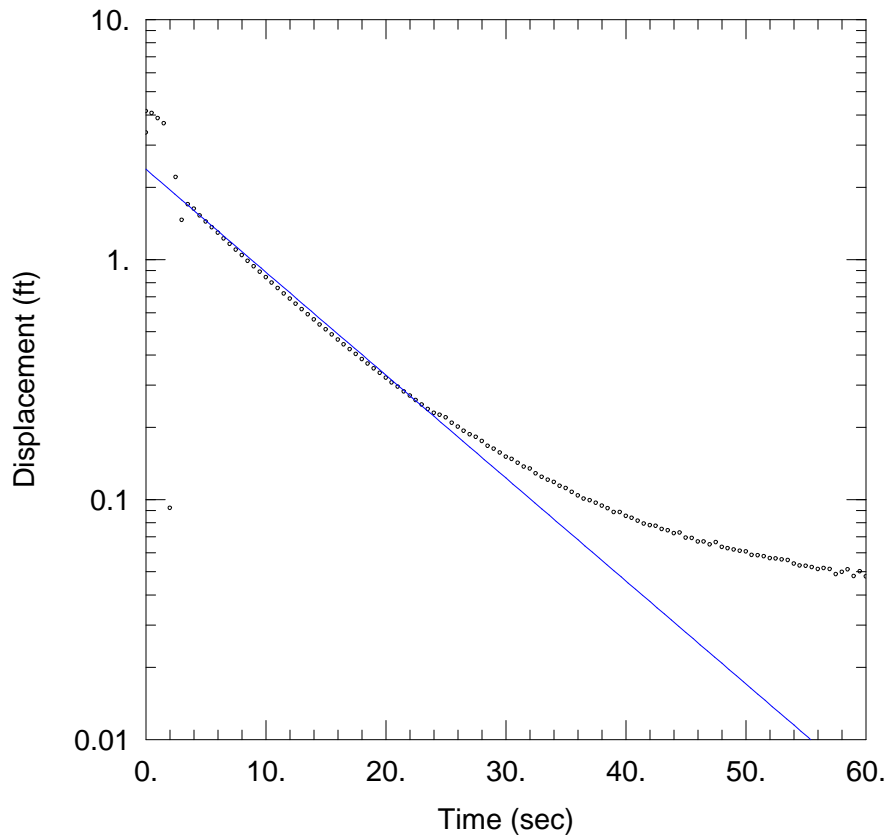
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 63.95 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW11-75 FALLING HEAD TEST 5

Data Set: N:\...\721-MW11-75-FH5.aqt

Date: 05/10/13

Time: 13:18:53

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-75

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.006569$ cm/sec

$y_0 = 2.378$ ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (721-MW11-75)

Initial Displacement: 3.375 ft

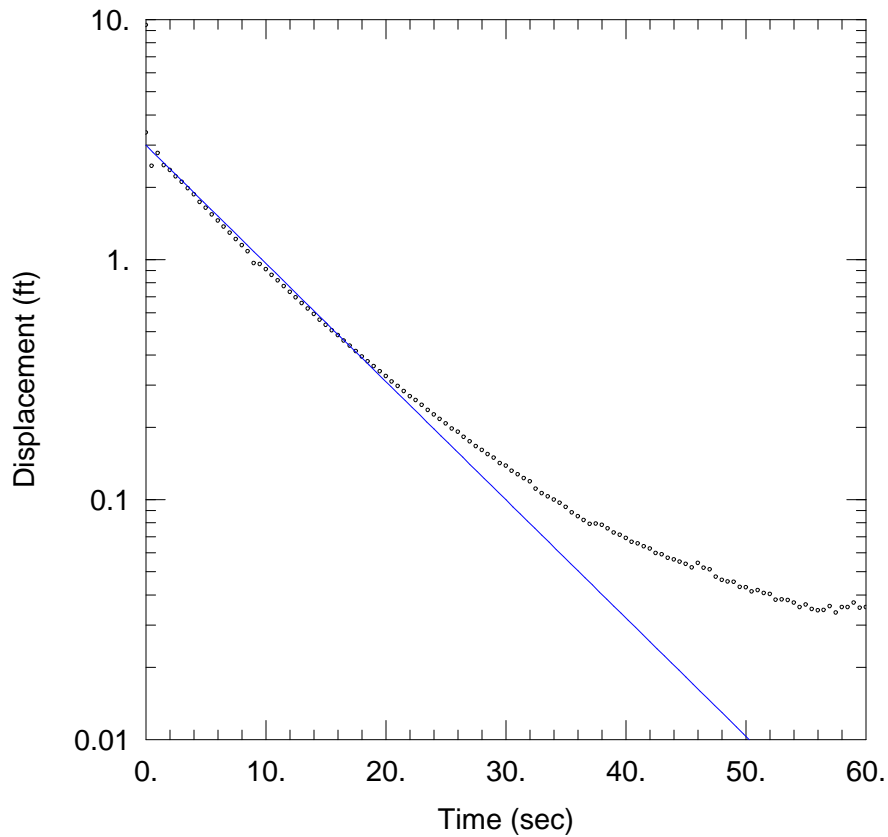
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 63.95 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW11-75 RISING HEAD TEST 1

Data Set: N:\...\721-MW11-75-RH1.aqt

Date: 05/10/13

Time: 13:23:19

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-75

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.007543$ cm/sec

$y_0 = 2.993$ ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (721-MW11-75)

Initial Displacement: 3.375 ft

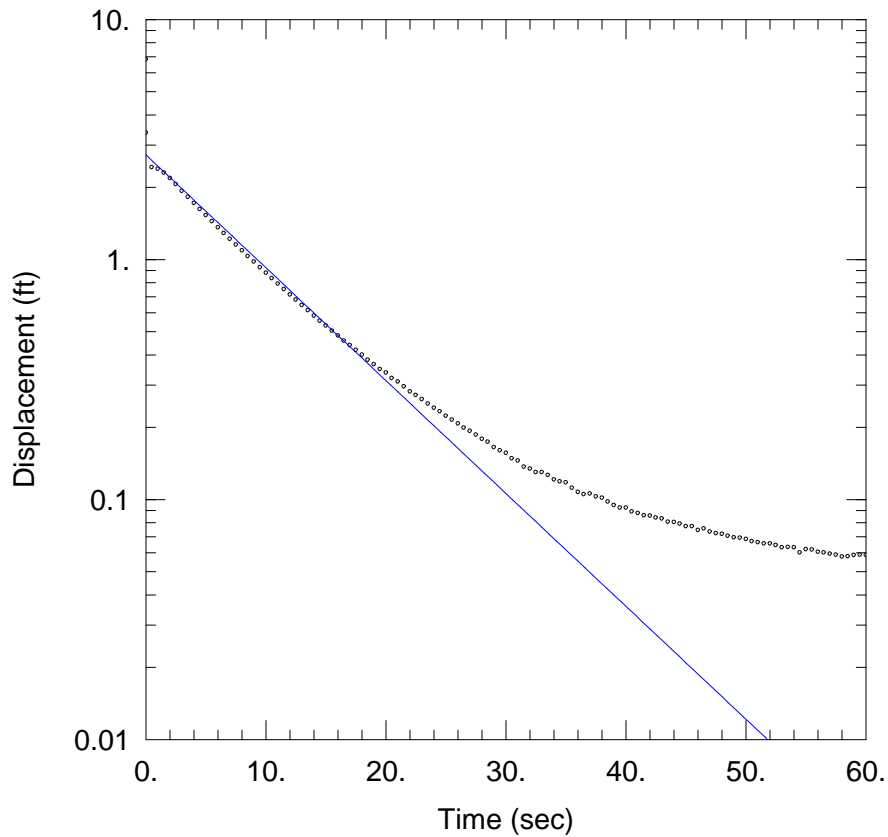
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 63.95 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW11-75 RISING HEAD TEST 2

Data Set: N:\...\721-MW11-75-RH2.aqt

Date: 05/10/13

Time: 13:23:05

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-75

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.007203 cm/sec

y0 = 2.73 ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW11-75)

Initial Displacement: 3.375 ft

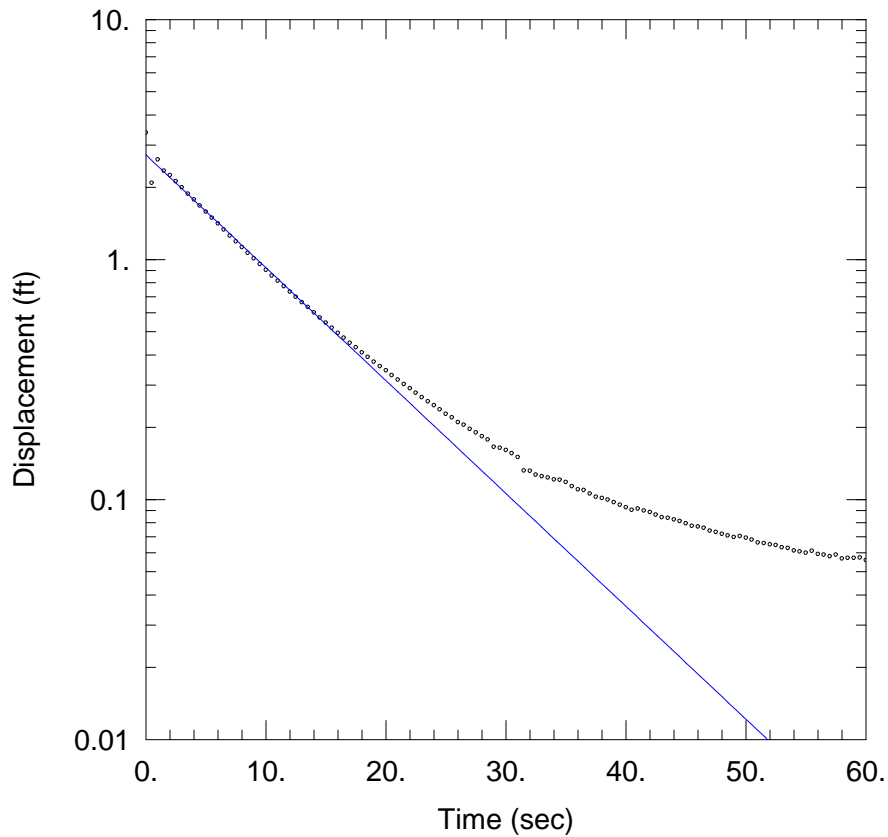
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 63.95 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW11-75 RISING HEAD TEST 3

Data Set: N:\...\721-MW11-75-RH3.aqt

Date: 05/10/13

Time: 13:22:50

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-75

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.007203$ cm/sec

$y_0 = 2.73$ ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (721-MW11-75)

Initial Displacement: 3.375 ft

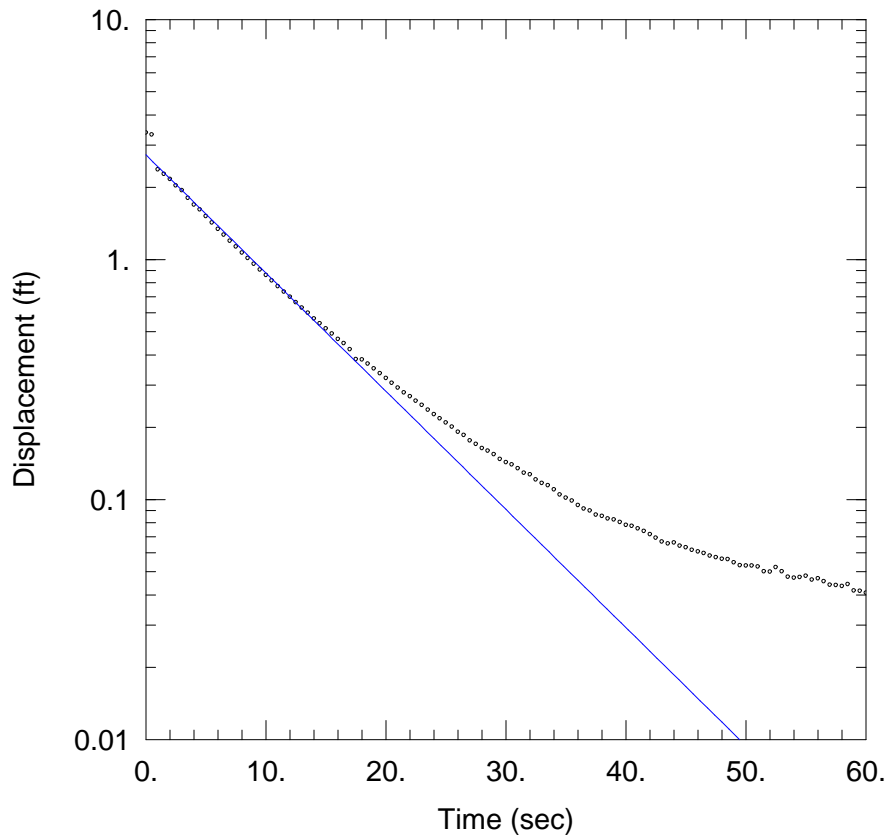
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 63.95 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW11-75 RISING HEAD TEST 4

Data Set: N:\...\721-MW11-75-RH4.aqt

Date: 05/10/13

Time: 13:22:36

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-75

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.007543 cm/sec

y0 = 2.73 ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW11-75)

Initial Displacement: 3.375 ft

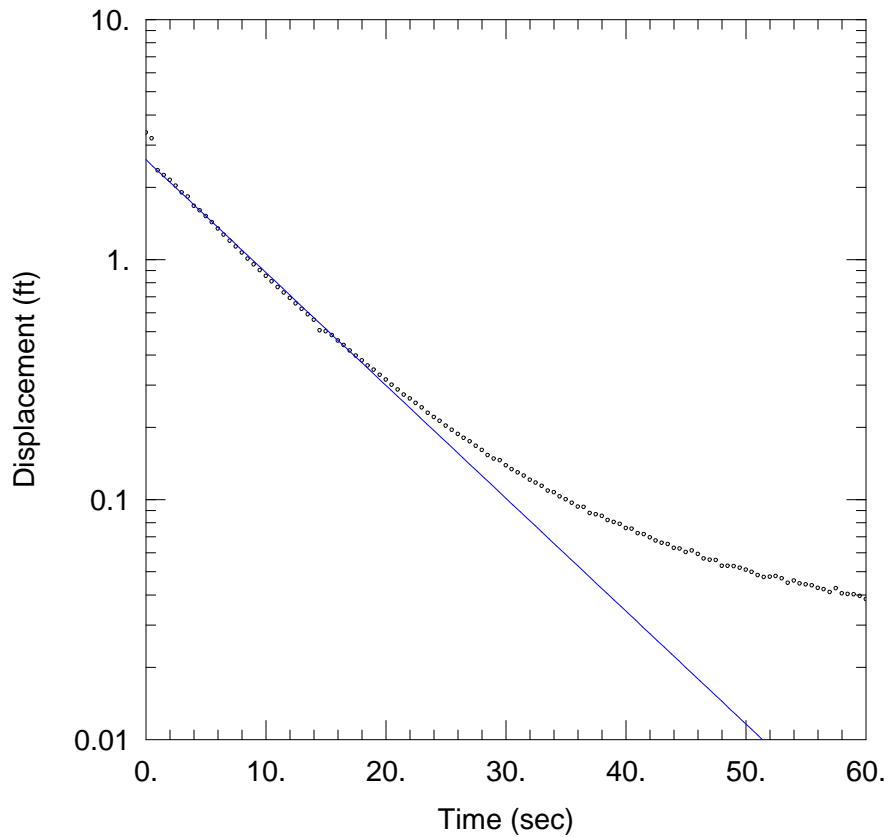
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 63.95 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW11-75 RISING HEAD TEST 5

Data Set: N:\...\721-MW11-75-RH5.aqt

Date: 05/10/13

Time: 13:22:21

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW11-75

Test Date: January 29, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.007203 cm/sec

y0 = 2.607 ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW11-75)

Initial Displacement: 3.375 ft

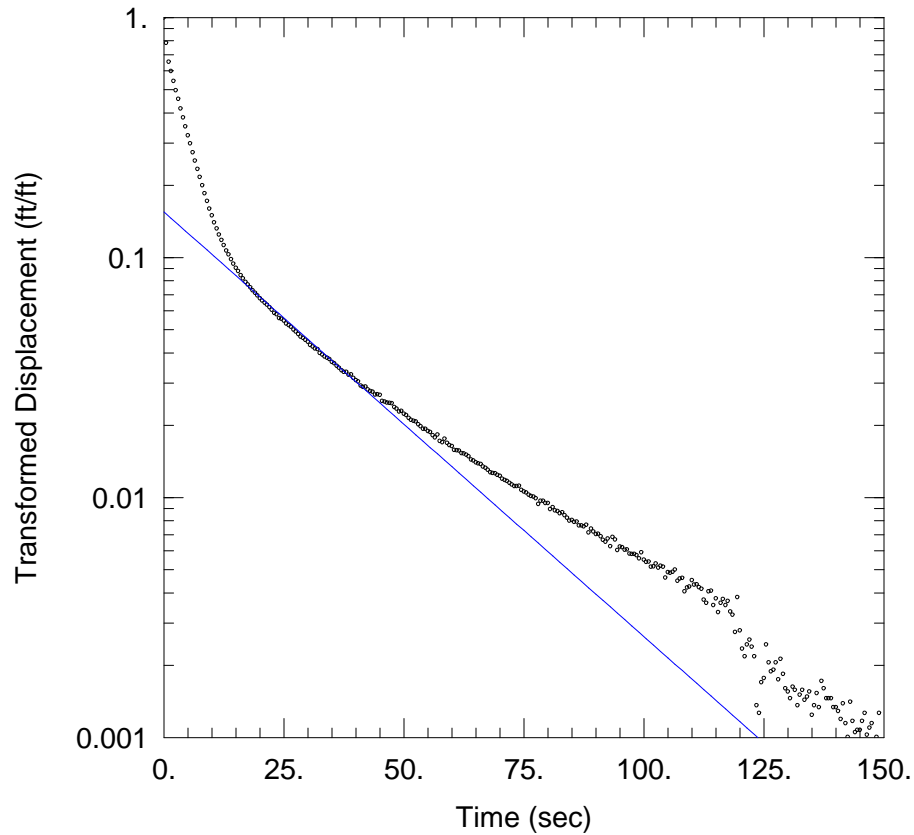
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 63.95 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW12-15 RISING HEAD TEST 1

Data Set: N:\...\721-MW12-15-RH1.aqt

Date: 05/09/13

Time: 09:43:02

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW12-15

Test Date: January 28, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.004983 cm/sec

y0 = 0.6254 ft

AQUIFER DATA

Saturated Thickness: 10.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW12-15)

Initial Displacement: 3.375 ft

Total Well Penetration Depth: 8.7 ft

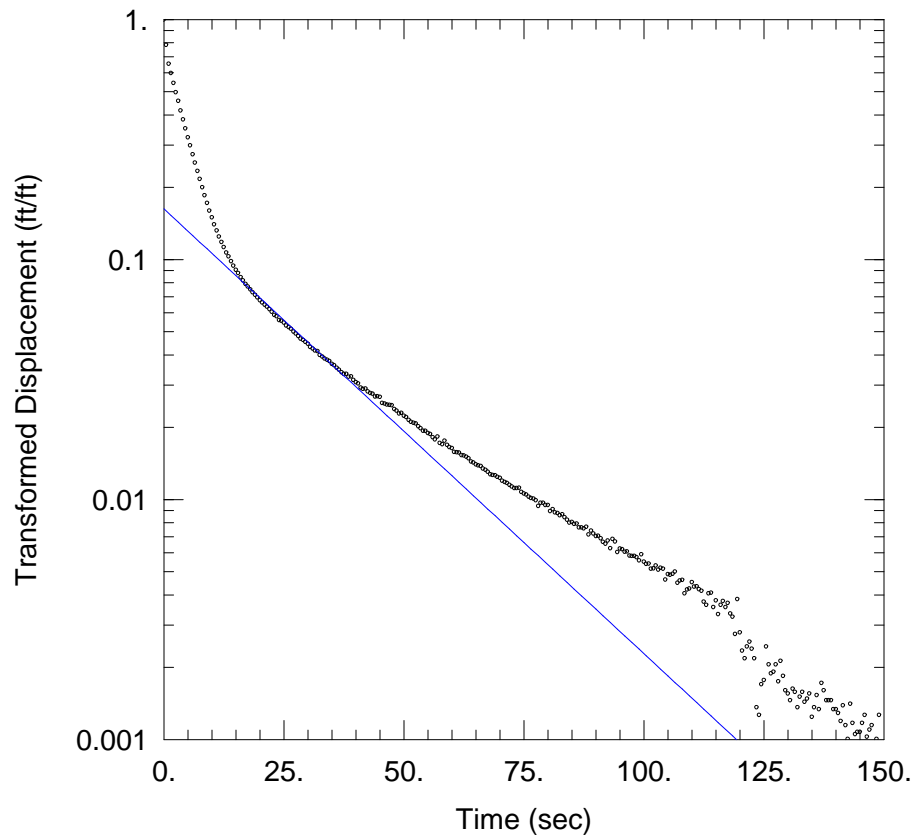
Casing Radius: 0.0835 ft

Static Water Column Height: 8.7 ft

Screen Length: 8.7 ft

Well Radius: 0.25 ft

Gravel Pack Porosity: 0.3



721-MW12-15 RISING HEAD TEST 2

Data Set: N:\...\721-MW12-15-RH2.aqt

Date: 05/09/13

Time: 09:42:49

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW12-15

Test Date: January 28, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.005218 cm/sec

y0 = 0.6548 ft

AQUIFER DATA

Saturated Thickness: 10.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW12-15)

Initial Displacement: 3.375 ft

Total Well Penetration Depth: 8.7 ft

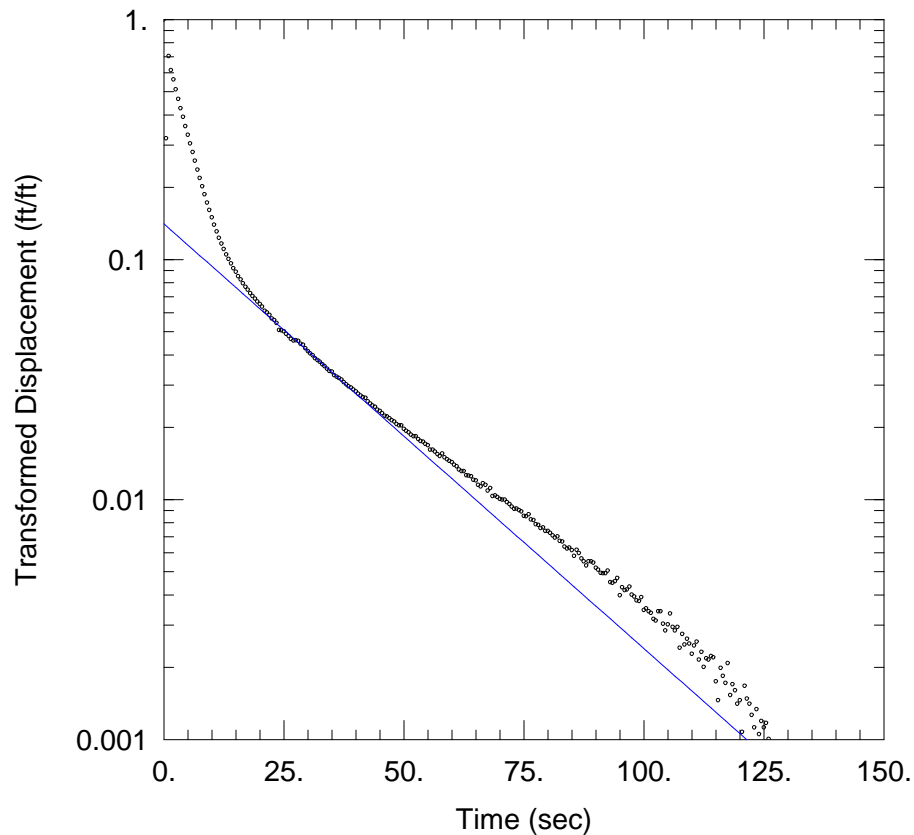
Casing Radius: 0.0835 ft

Static Water Column Height: 8.7 ft

Screen Length: 8.7 ft

Well Radius: 0.25 ft

Gravel Pack Porosity: 0.3



721-MW12-15 RISING HEAD TEST 3

Data Set: N:\...\721-MW12-15-RH3.aqt

Date: 05/09/13

Time: 09:42:37

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW12-15

Test Date: January 28, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.004983 cm/sec

y0 = 0.5703 ft

AQUIFER DATA

Saturated Thickness: 10.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW12-15)

Initial Displacement: 3.375 ft

Total Well Penetration Depth: 8.7 ft

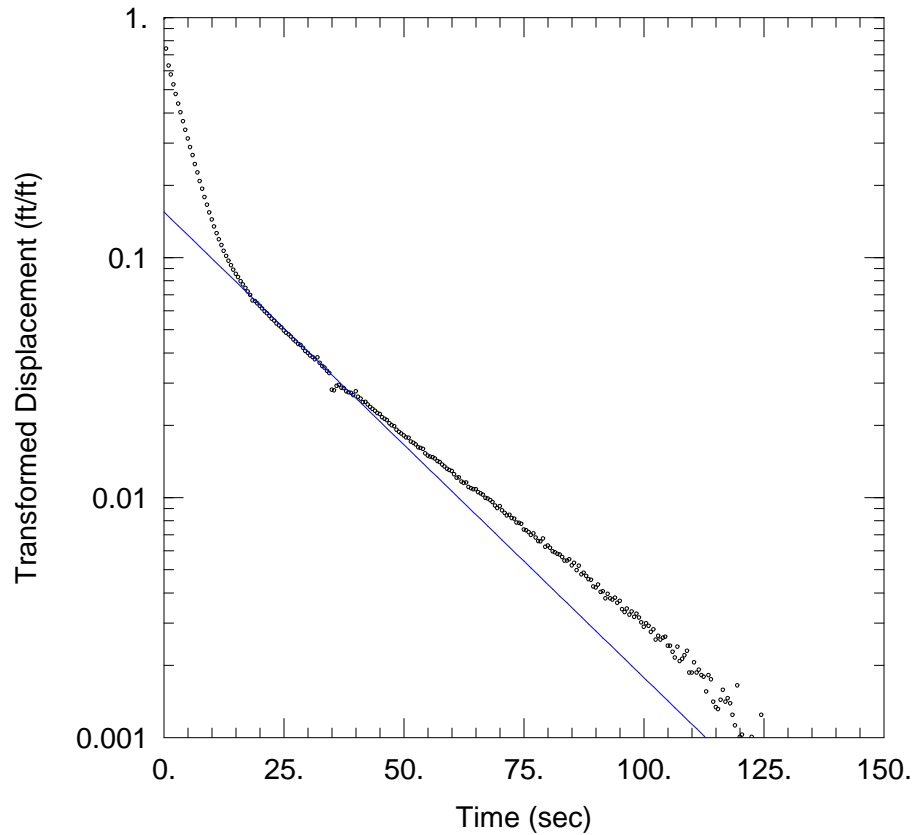
Casing Radius: 0.0835 ft

Static Water Column Height: 8.7 ft

Screen Length: 8.7 ft

Well Radius: 0.25 ft

Gravel Pack Porosity: 0.3



721-MW12-15 RISING HEAD TEST 4

Data Set: N:\...\721-MW12-15-RH4.aqt

Date: 05/09/13

Time: 09:42:26

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW12-15

Test Date: January 28, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.005464 cm/sec

y0 = 0.6254 ft

AQUIFER DATA

Saturated Thickness: 10.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW12-15)

Initial Displacement: 3.375 ft

Total Well Penetration Depth: 8.7 ft

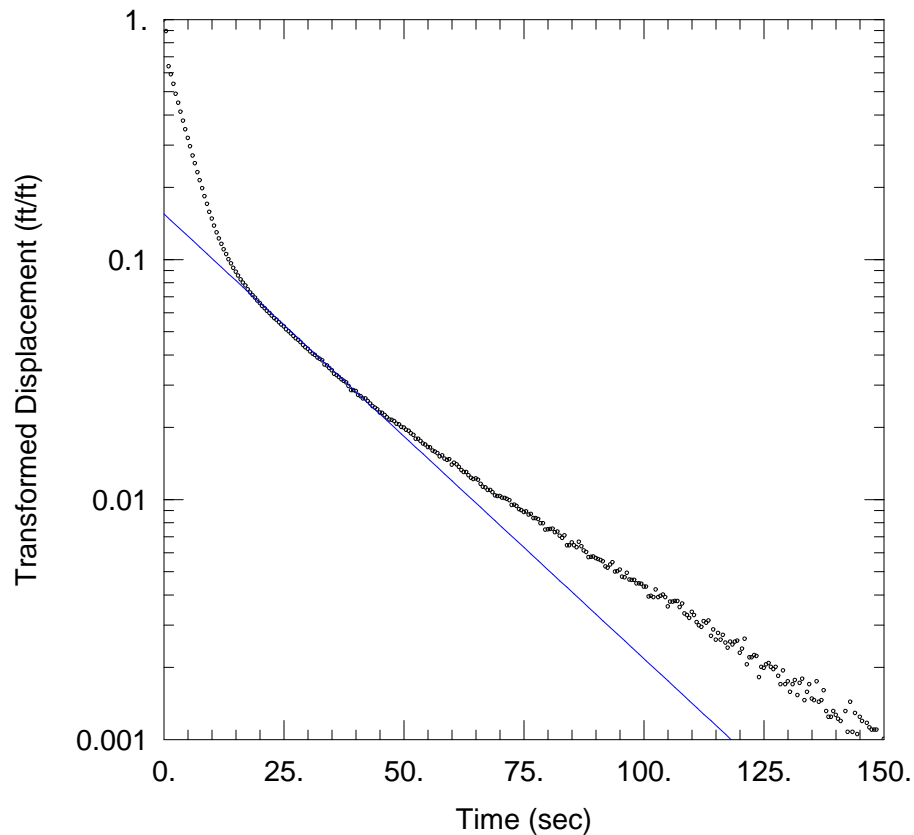
Casing Radius: 0.0835 ft

Static Water Column Height: 8.7 ft

Screen Length: 8.7 ft

Well Radius: 0.25 ft

Gravel Pack Porosity: 0.3



721-MW12-15 RISING HEAD TEST 5

Data Set: N:\...\721-MW12-15-RH5.aqt

Date: 05/09/13

Time: 09:42:14

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW12-15

Test Date: January 28, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.005218 cm/sec

y0 = 0.6254 ft

AQUIFER DATA

Saturated Thickness: 10.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW12-15)

Initial Displacement: 3.375 ft

Total Well Penetration Depth: 8.7 ft

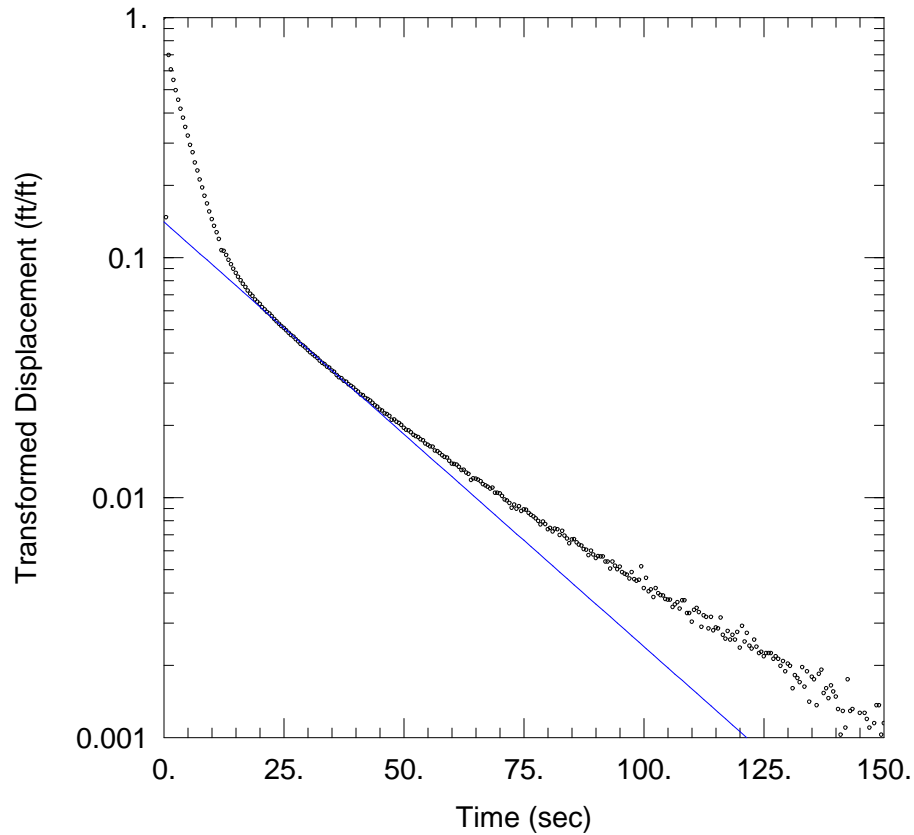
Casing Radius: 0.0835 ft

Static Water Column Height: 8.7 ft

Screen Length: 8.7 ft

Well Radius: 0.25 ft

Gravel Pack Porosity: 0.3



721-MW12-15 RISING HEAD TEST 6

Data Set: N:\...\721-MW12-15-RH6.aqt

Date: 05/09/13

Time: 09:42:00

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW12-15

Test Date: January 28, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.004983 cm/sec

y0 = 0.5703 ft

AQUIFER DATA

Saturated Thickness: 10.2 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW12-15)

Initial Displacement: 3.375 ft

Total Well Penetration Depth: 8.7 ft

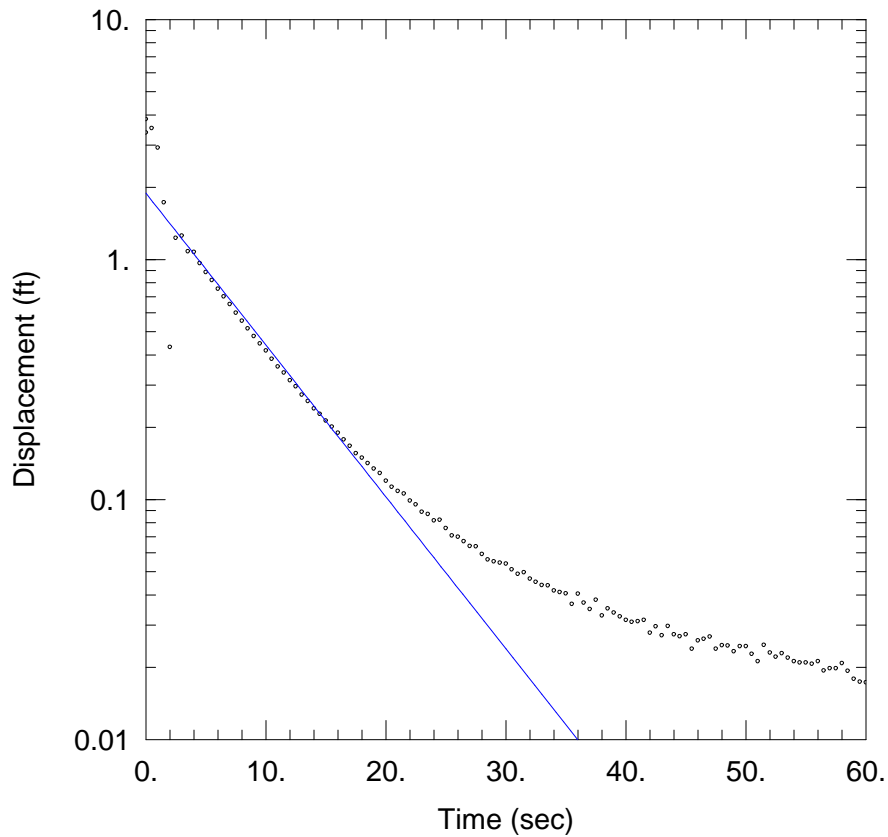
Casing Radius: 0.0835 ft

Static Water Column Height: 8.7 ft

Screen Length: 8.7 ft

Well Radius: 0.25 ft

Gravel Pack Porosity: 0.3



721-MW12-25 FALLING HEAD TEST 1

Data Set: N:\...\721-MW12-25-FH1.aqt

Date: 05/09/13

Time: 09:55:39

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW12-25

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.009496$ cm/sec

$y_0 = 1.889$ ft

AQUIFER DATA

Saturated Thickness: 8.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (721-MW12-25)

Initial Displacement: 3.375 ft

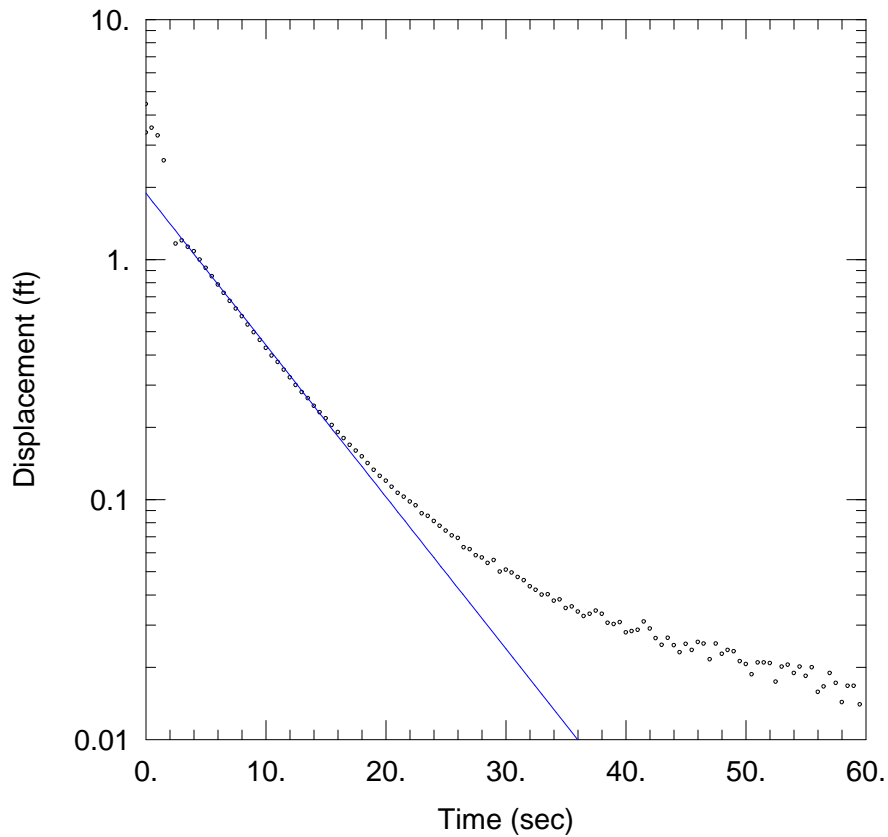
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.57 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW12-25 FALLING HEAD TEST 2

Data Set: N:\...\721-MW12-25-FH2.aqt

Date: 05/09/13

Time: 09:55:26

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW12-25

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.009496$ cm/sec

$y_0 = 1.889$ ft

AQUIFER DATA

Saturated Thickness: 8.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (721-MW12-25)

Initial Displacement: 3.375 ft

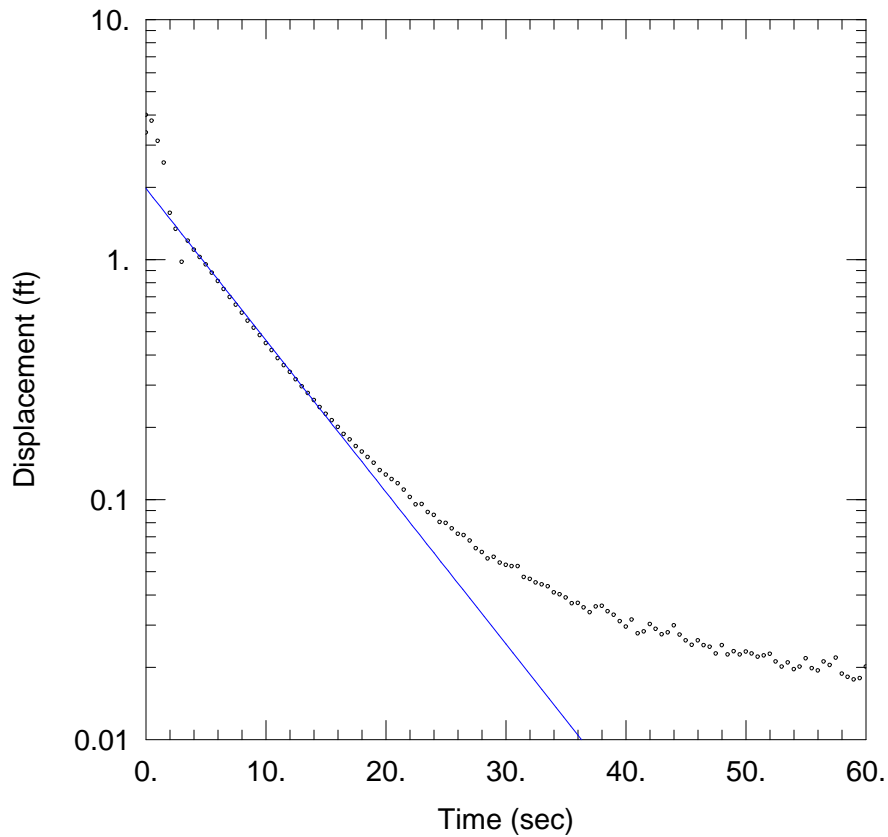
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.57 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW12-25 FALLING HEAD TEST 3

Data Set: N:\...\721-MW12-25-FH3.aqt

Date: 05/09/13

Time: 09:55:14

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW12-25

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.009496 cm/sec

y0 = 1.978 ft

AQUIFER DATA

Saturated Thickness: 8.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW12-25)

Initial Displacement: 3.375 ft

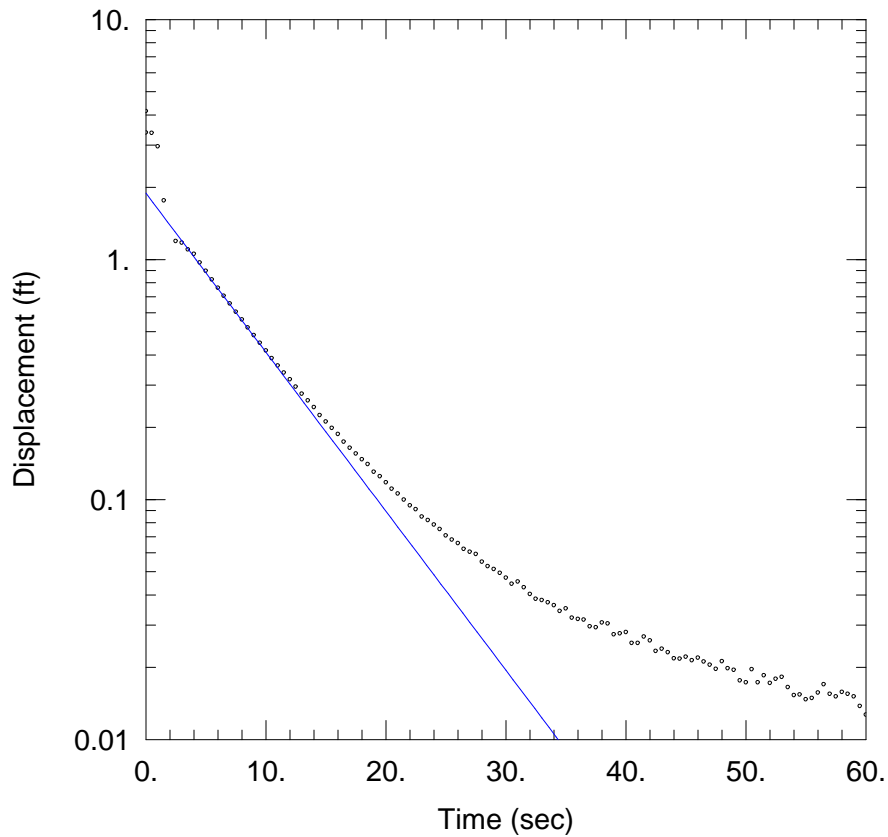
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.57 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW12-25 FALLING HEAD TEST 4

Data Set: N:\...\721-MW12-25-FH4.aqt

Date: 05/09/13

Time: 09:55:01

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW12-25

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.009943 cm/sec

y0 = 1.889 ft

AQUIFER DATA

Saturated Thickness: 8.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW12-25)

Initial Displacement: 3.375 ft

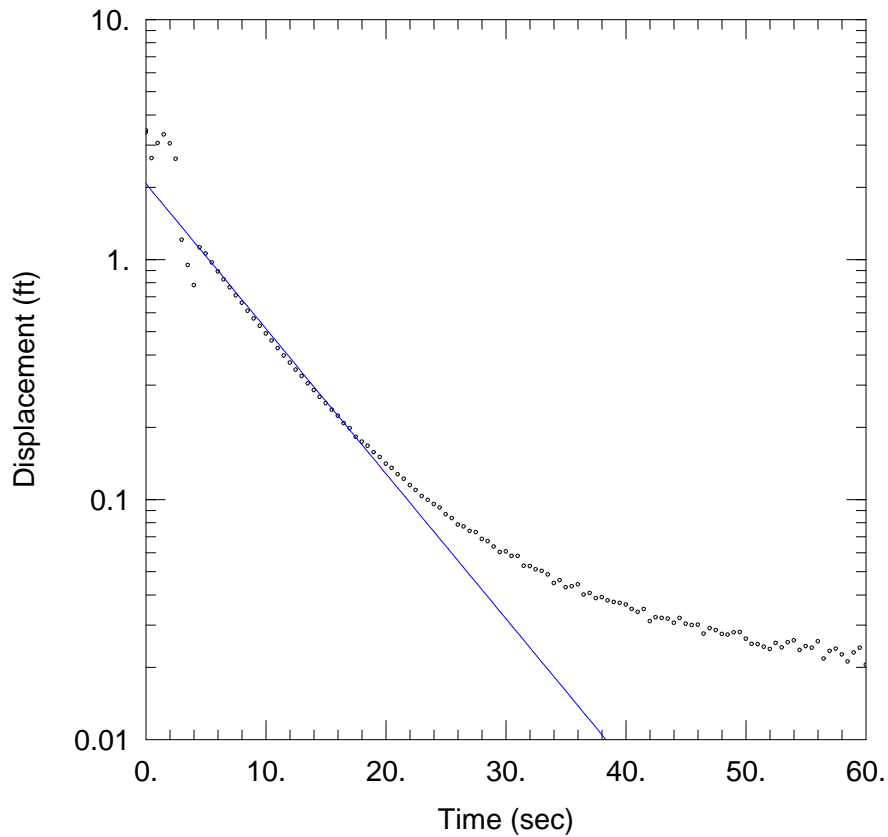
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.57 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW12-25 FALLING HEAD TEST 5

Data Set: N:\...\721-MW12-25-FH5.aqt

Date: 05/09/13

Time: 09:54:48

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW12-25

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.009068$ cm/sec

$y_0 = 2.071$ ft

AQUIFER DATA

Saturated Thickness: 8.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (721-MW12-25)

Initial Displacement: 3.375 ft

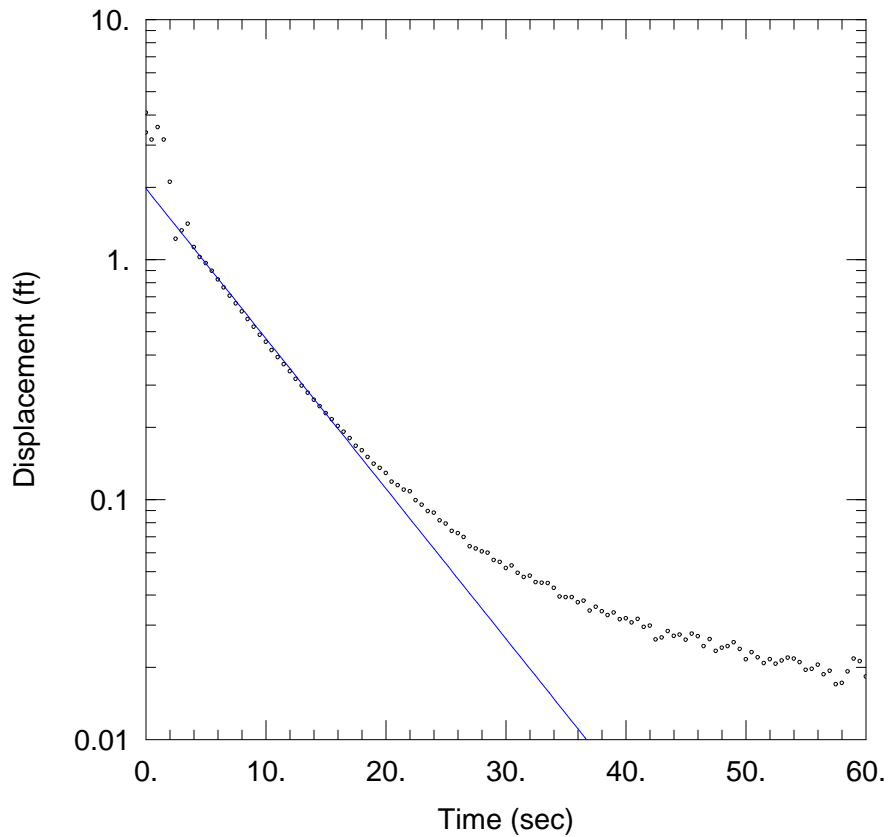
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.57 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW12-25 FALLING HEAD TEST 6

Data Set: N:\...\721-MW12-25-FH6.aqt

Date: 05/09/13

Time: 09:54:36

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW12-25

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.009387$ cm/sec

$y_0 = 1.978$ ft

AQUIFER DATA

Saturated Thickness: 8.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (721-MW12-25)

Initial Displacement: 3.375 ft

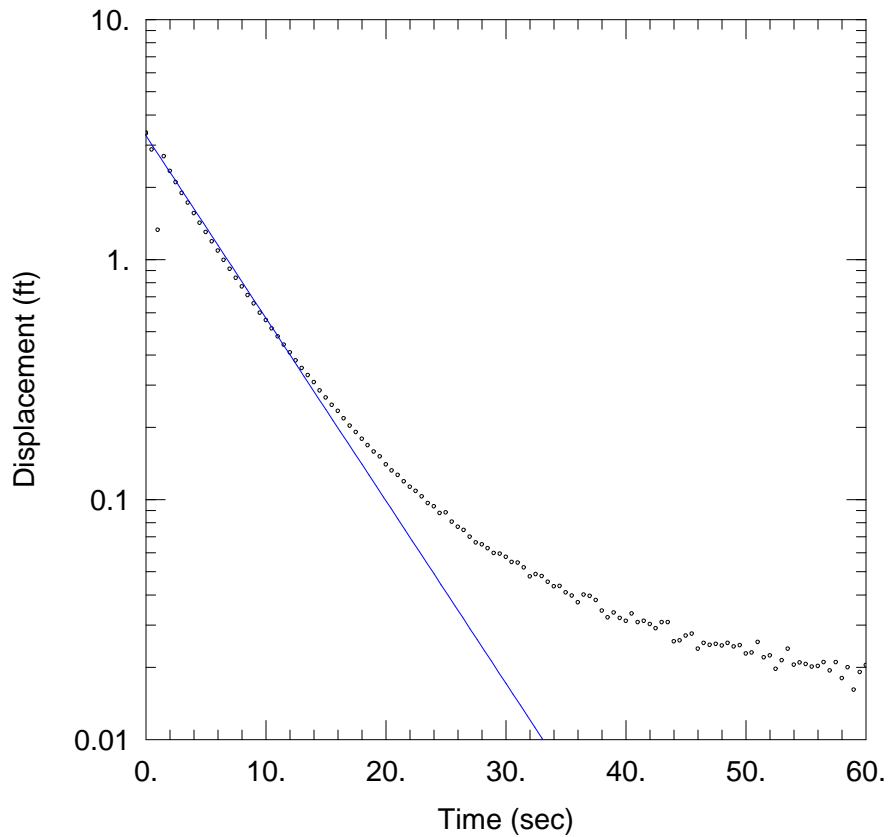
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.57 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW12-25 RISING HEAD TEST 1

Data Set: N:\...\721-MW12-25-RH1.aqt

Date: 05/09/13

Time: 10:00:41

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW12-25

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01142 cm/sec

y0 = 3.282 ft

AQUIFER DATA

Saturated Thickness: 8.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW12-25)

Initial Displacement: 3.375 ft

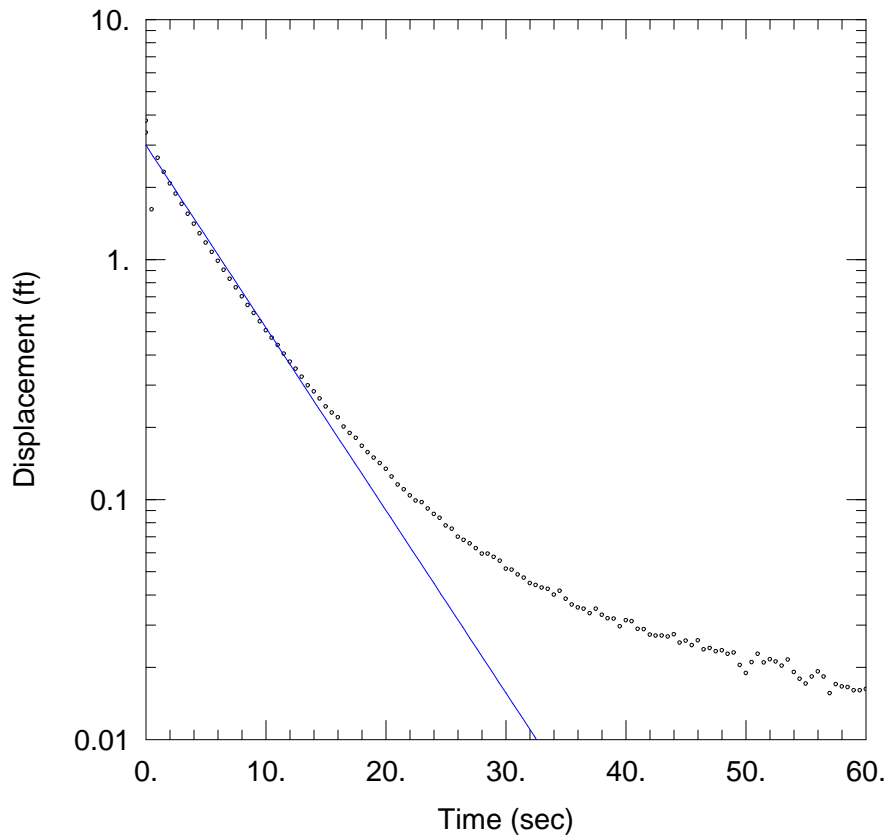
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.57 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW12-25 RISING HEAD TEST 2

Data Set: N:\...\721-MW12-25-RH2.aqt

Date: 05/09/13

Time: 10:00:28

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW12-25

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01142 cm/sec

y0 = 2.993 ft

AQUIFER DATA

Saturated Thickness: 8.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW12-25)

Initial Displacement: 3.375 ft

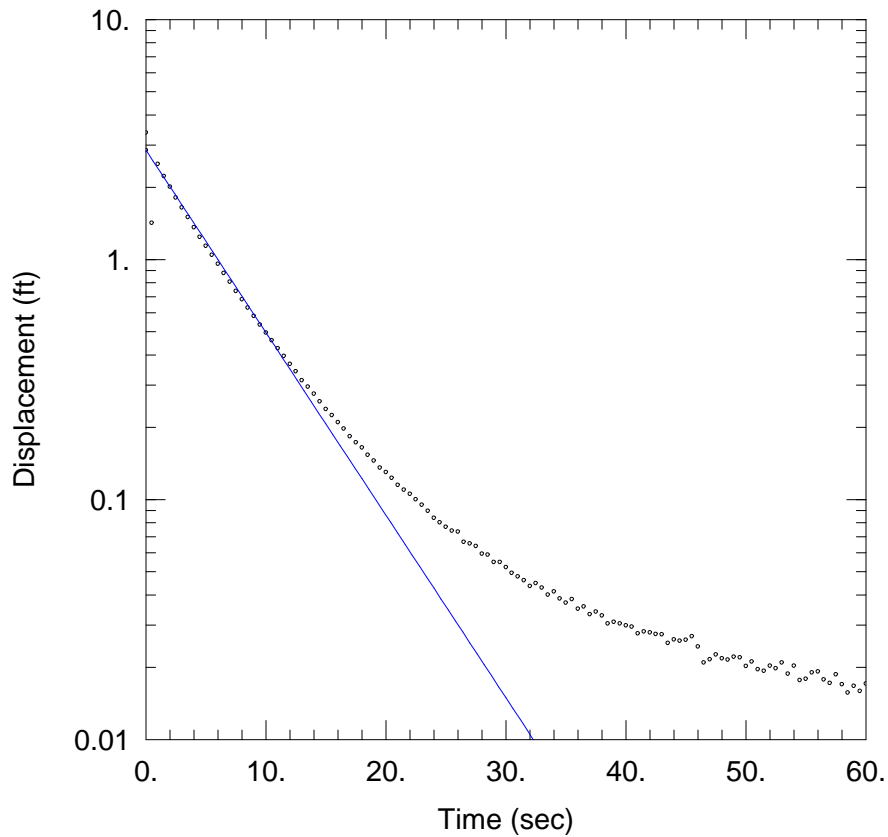
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.57 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW12-25 RISING HEAD TEST 3

Data Set: N:\...\721-MW12-25-RH3.aqt

Date: 05/09/13

Time: 10:00:15

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW12-25

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01142 cm/sec

y0 = 2.858 ft

AQUIFER DATA

Saturated Thickness: 8.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW12-25)

Initial Displacement: 3.375 ft

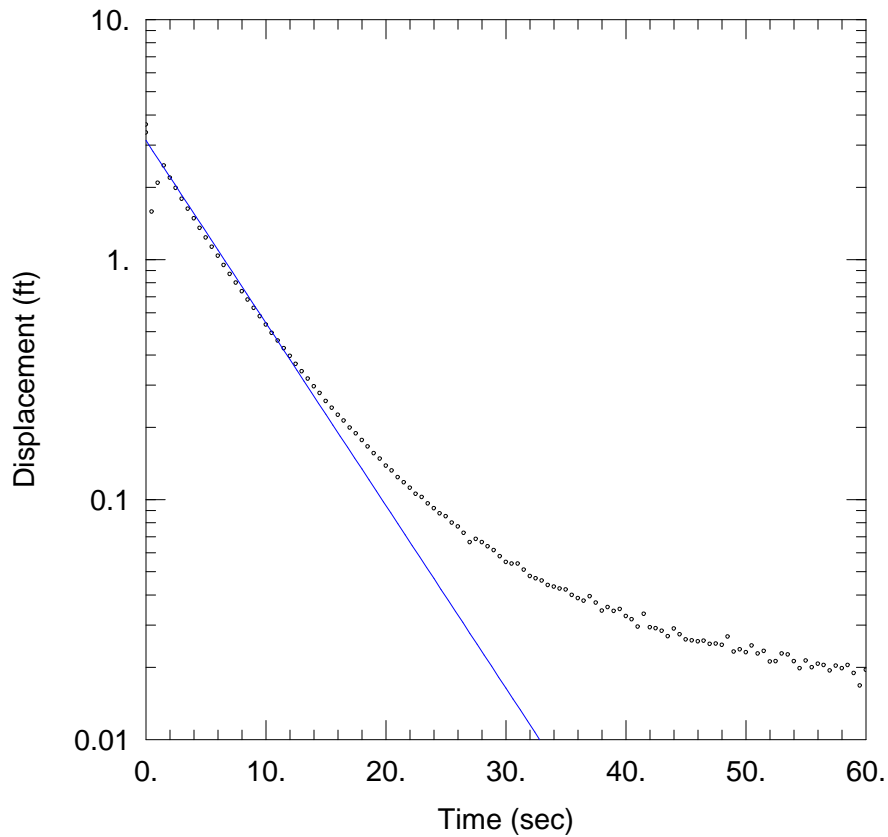
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.57 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW12-25 RISING HEAD TEST 4

Data Set: N:\...\721-MW12-25-RH4.aqt

Date: 05/09/13

Time: 10:00:01

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW12-25

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01142 cm/sec

y0 = 3.134 ft

AQUIFER DATA

Saturated Thickness: 8.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW12-25)

Initial Displacement: 3.375 ft

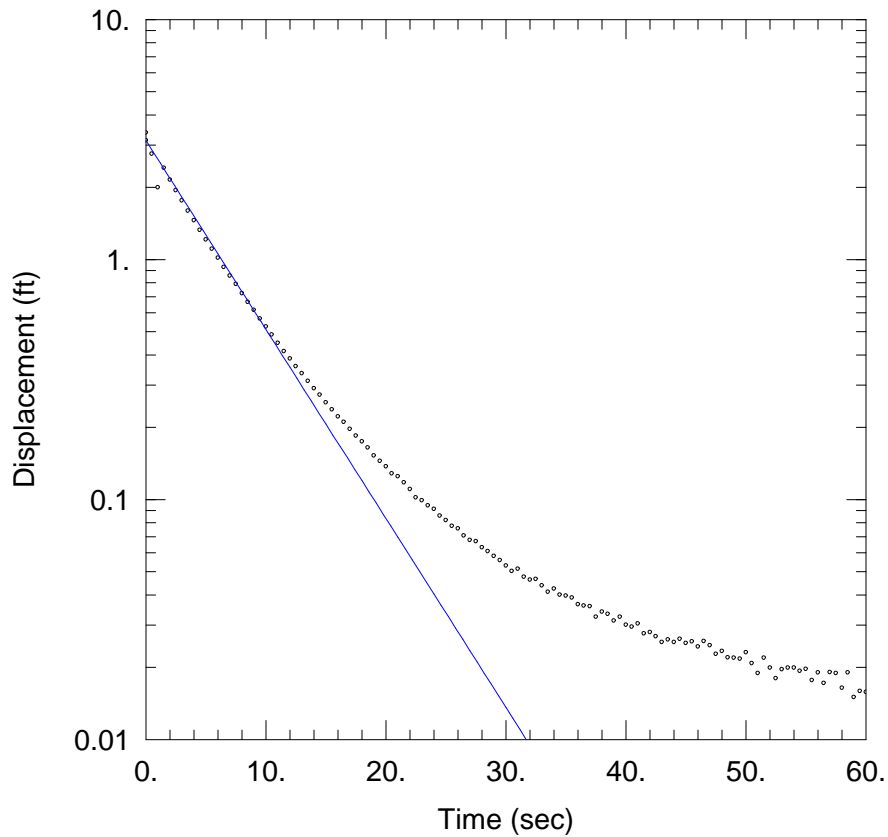
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.57 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW12-25 RISING HEAD TEST 5

Data Set: N:\...\721-MW12-25-RH5.aqt

Date: 05/09/13

Time: 09:59:49

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW12-25

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01182 cm/sec

y0 = 3.134 ft

AQUIFER DATA

Saturated Thickness: 8.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW12-25)

Initial Displacement: 3.375 ft

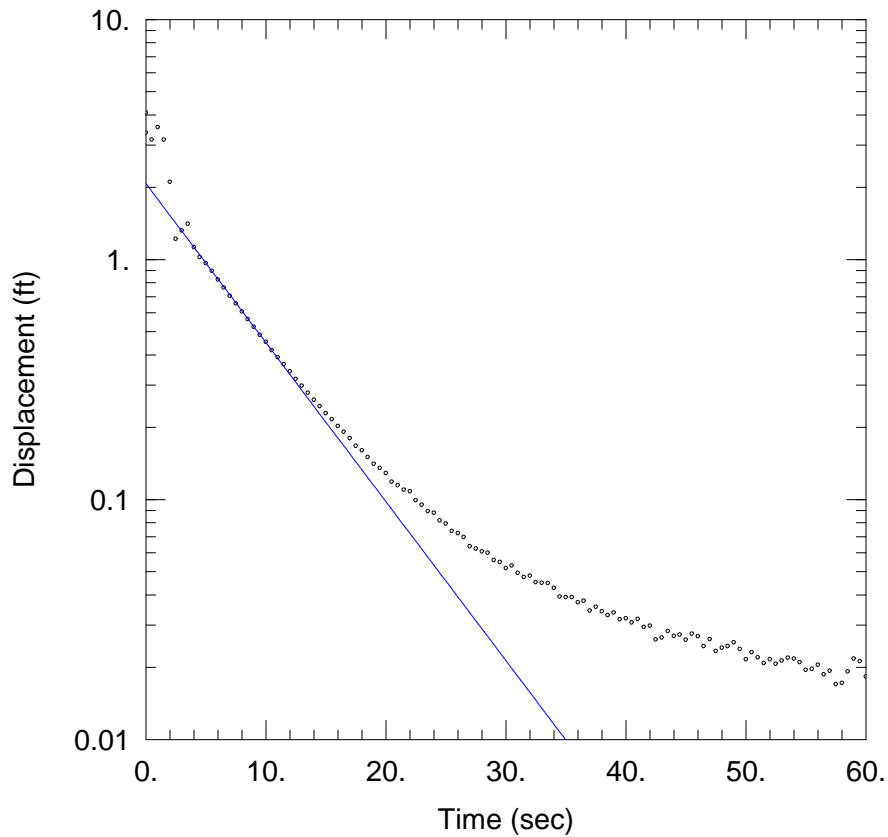
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.57 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW12-25 RISING HEAD TEST 6

Data Set: N:\...\721-MW12-25-RH6.aqt

Date: 05/09/13

Time: 09:59:36

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW12-25

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.009943$ cm/sec

$y_0 = 2.071$ ft

AQUIFER DATA

Saturated Thickness: 8.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (721-MW12-25)

Initial Displacement: 3.375 ft

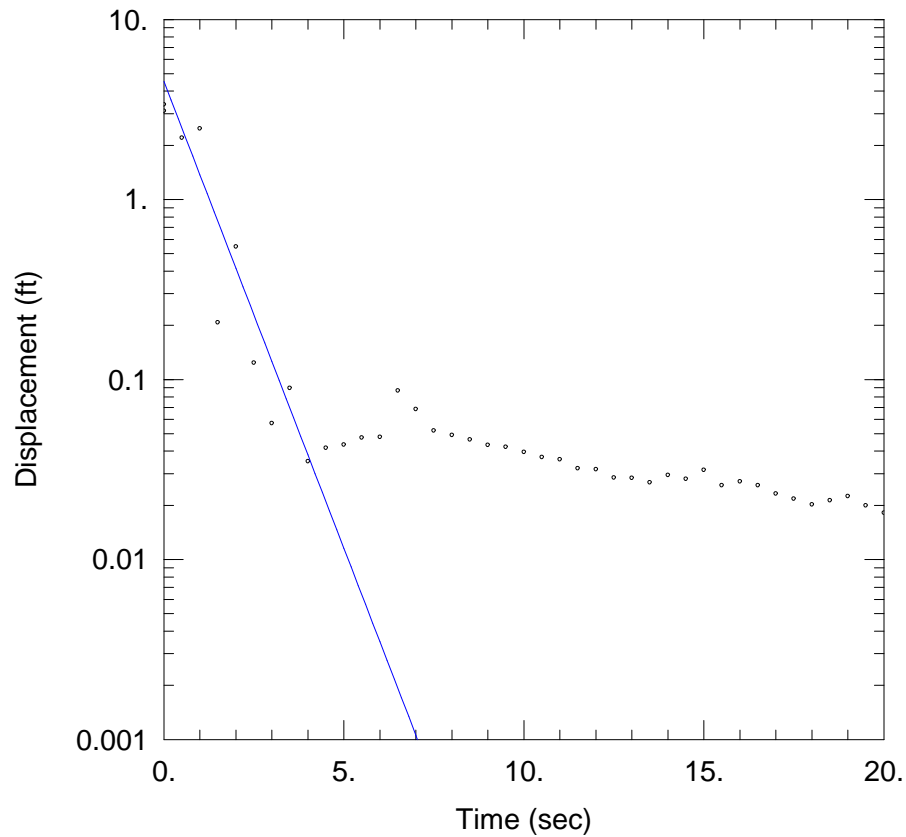
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.57 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW12-50 FALLING HEAD TEST 1

Data Set: N:\...\721-MW12-50-FH1.aqt

Date: 05/13/13

Time: 09:07:57

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW12-50

Test Date: January 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.07898 cm/sec

y0 = 4.53 ft

AQUIFER DATA

Saturated Thickness: 10 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW12-50)

Initial Displacement: 3.375 ft

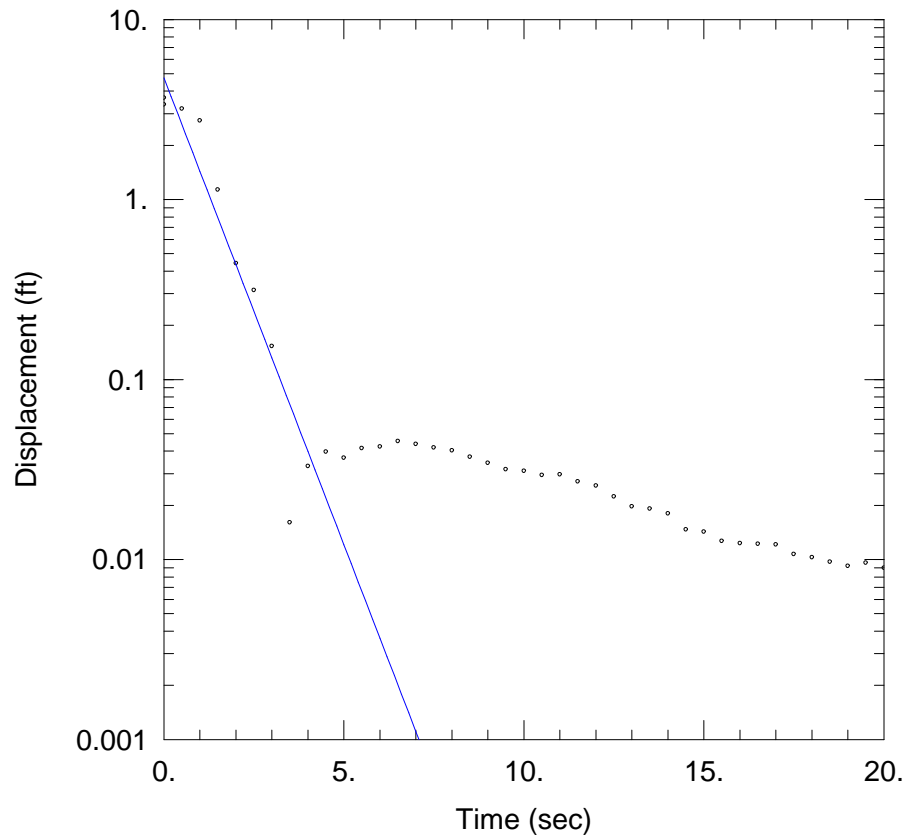
Total Well Penetration Depth: 8 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.28 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



721-MW12-50 FALLING HEAD TEST 2

Data Set: N:\...\721-MW12-50-FH2.aqt

Date: 05/13/13

Time: 09:07:44

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW12-50

Test Date: January 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.07898 cm/sec

y0 = 4.744 ft

AQUIFER DATA

Saturated Thickness: 10. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW12-50)

Initial Displacement: 3.375 ft

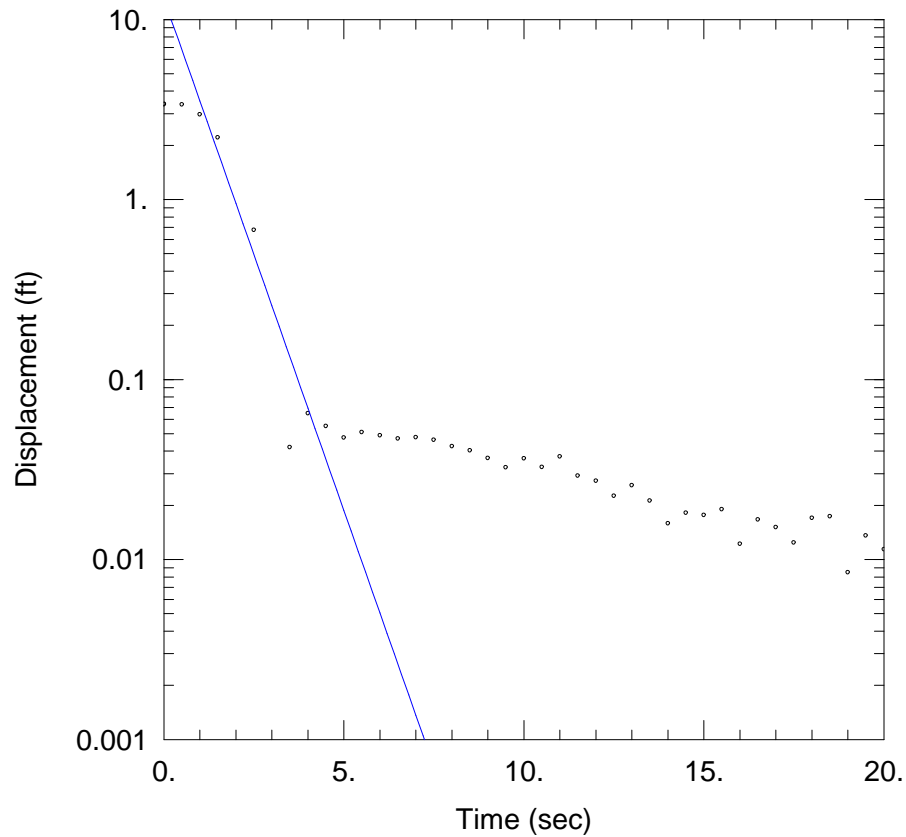
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.28 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW12-50 FALLING HEAD TEST 3

Data Set: N:\...\721-MW12-50-FH3.aqt

Date: 05/13/13

Time: 09:07:32

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW12-50

Test Date: January 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0866 cm/sec

y0 = 13.07 ft

AQUIFER DATA

Saturated Thickness: 10. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW12-50)

Initial Displacement: 3.375 ft

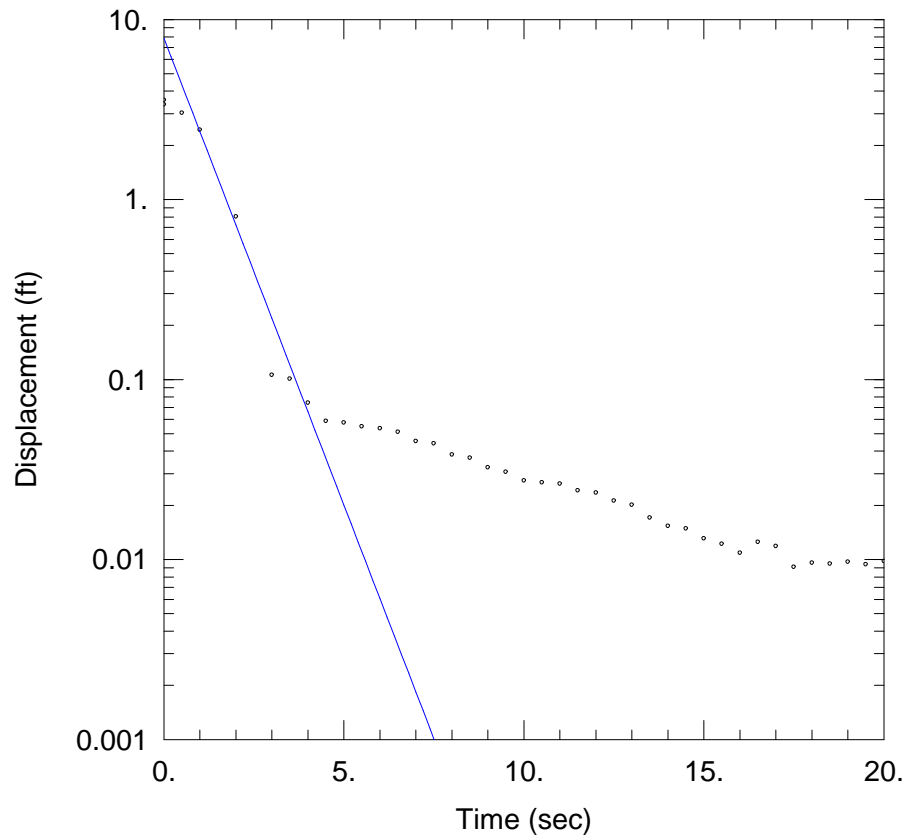
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.28 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW12-50 FALLING HEAD TEST 4

Data Set: N:\...\721-MW12-50-FH4.aqt

Date: 05/13/13

Time: 09:07:20

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW12-50

Test Date: January 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.07898 cm/sec

y0 = 7.873 ft

AQUIFER DATA

Saturated Thickness: 10. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW12-50)

Initial Displacement: 3.375 ft

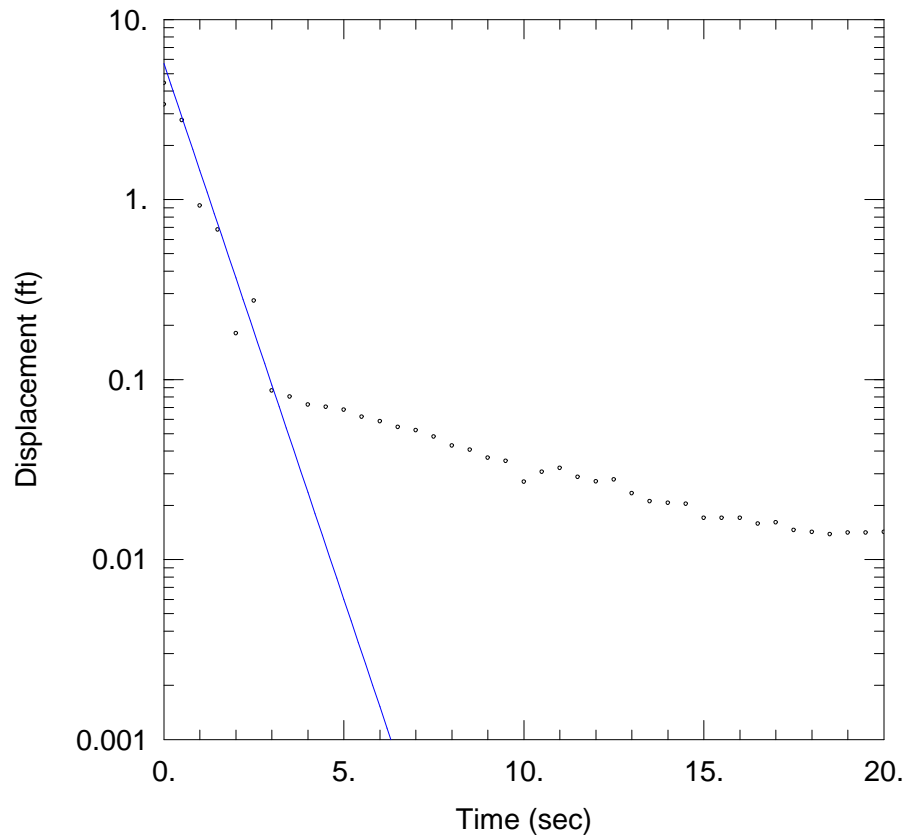
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.28 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW12-50 FALLING HEAD TEST 5

Data Set: N:\...\721-MW12-50-FH5.aqt

Date: 05/13/13

Time: 09:07:06

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW12-50

Test Date: January 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.09068 cm/sec

y0 = 5.703 ft

AQUIFER DATA

Saturated Thickness: 10. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW12-50)

Initial Displacement: 3.375 ft

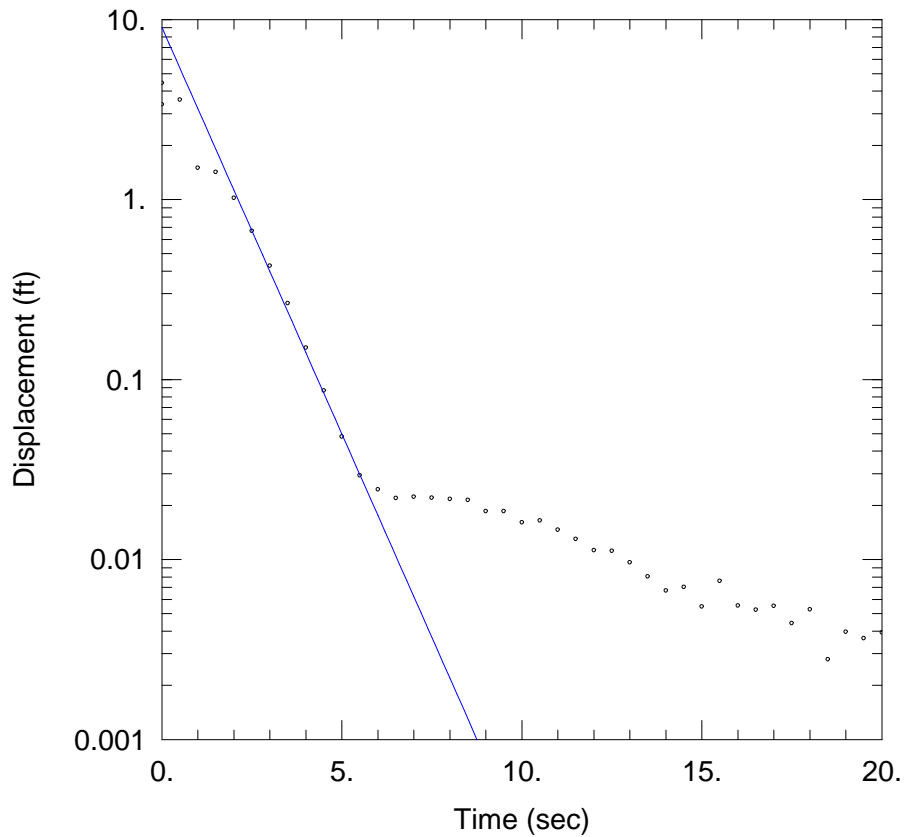
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.28 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW12-50 RISING HEAD TEST 1

Data Set: N:\...\721-MW12-50-RH1.aqt

Date: 05/13/13

Time: 09:13:13

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW12-50

Test Date: January 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.06879 cm/sec

y0 = 9.039 ft

AQUIFER DATA

Saturated Thickness: 10 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW12-50)

Initial Displacement: 3.375 ft

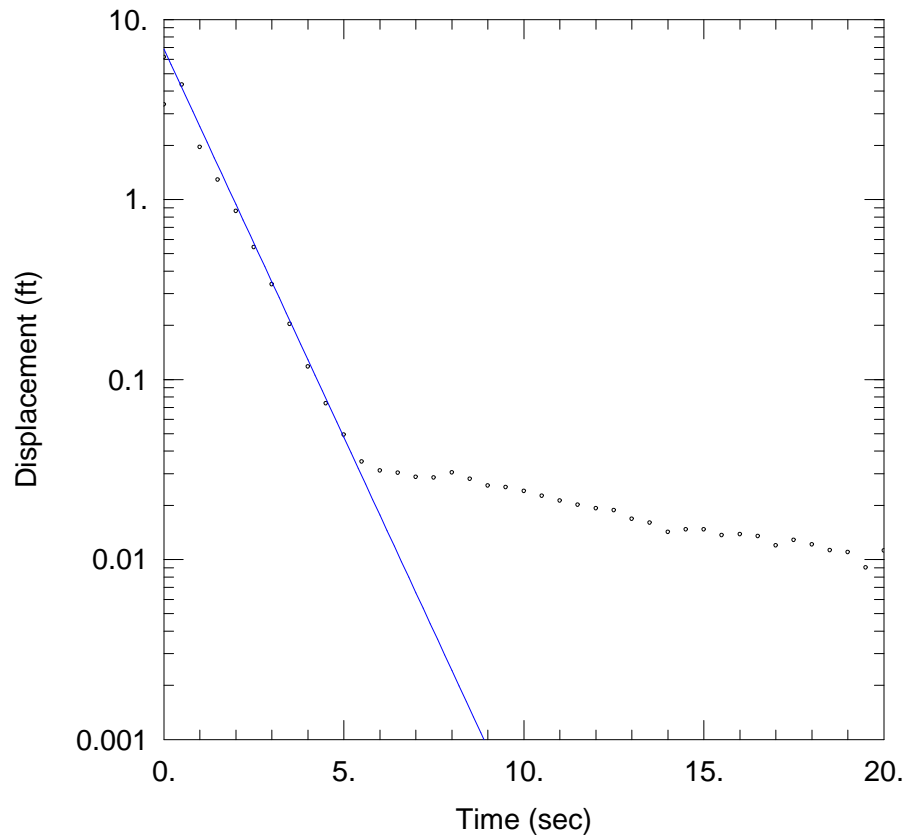
Total Well Penetration Depth: 8 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.28 ft

Screen Length: 5 ft

Well Radius: 0.25 ft



721-MW12-50 RISING HEAD TEST 2

Data Set: N:\...\721-MW12-50-RH2.aqt

Date: 05/13/13

Time: 09:13:01

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW12-50

Test Date: January 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.06569 cm/sec

y0 = 6.857 ft

AQUIFER DATA

Saturated Thickness: 10. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW12-50)

Initial Displacement: 3.375 ft

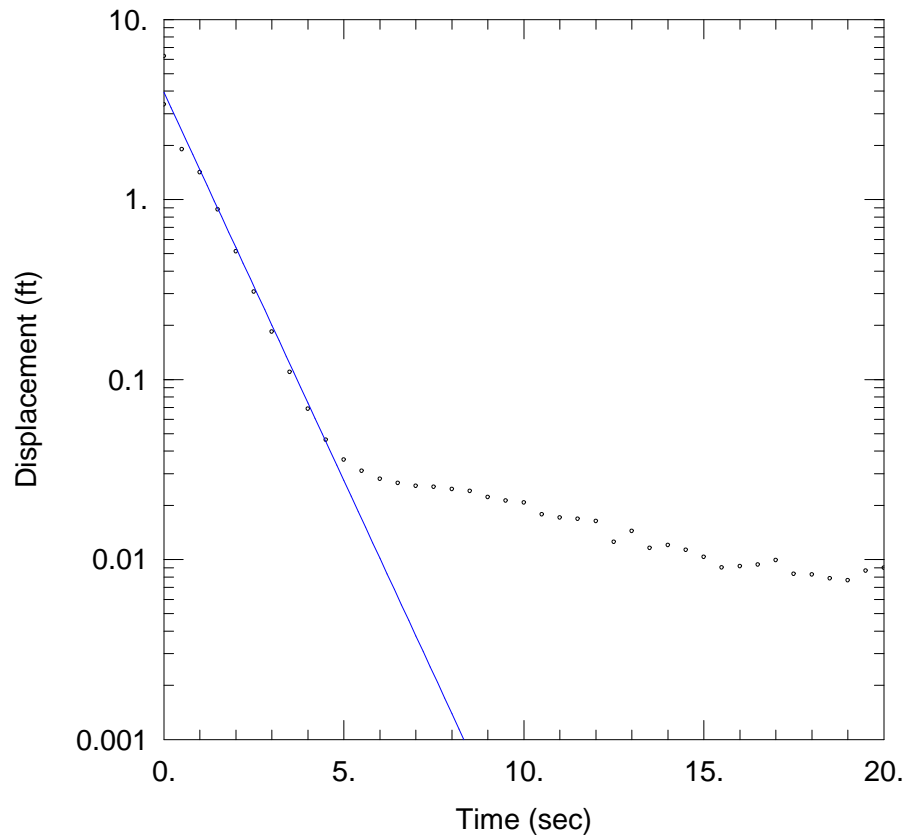
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.28 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW12-50 RISING HEAD TEST 3

Data Set: N:\...\721-MW12-50-RH3.aqt

Date: 05/13/13

Time: 09:12:50

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW12-50

Test Date: January 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.06569 cm/sec

y0 = 3.946 ft

AQUIFER DATA

Saturated Thickness: 10. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW12-50)

Initial Displacement: 3.375 ft

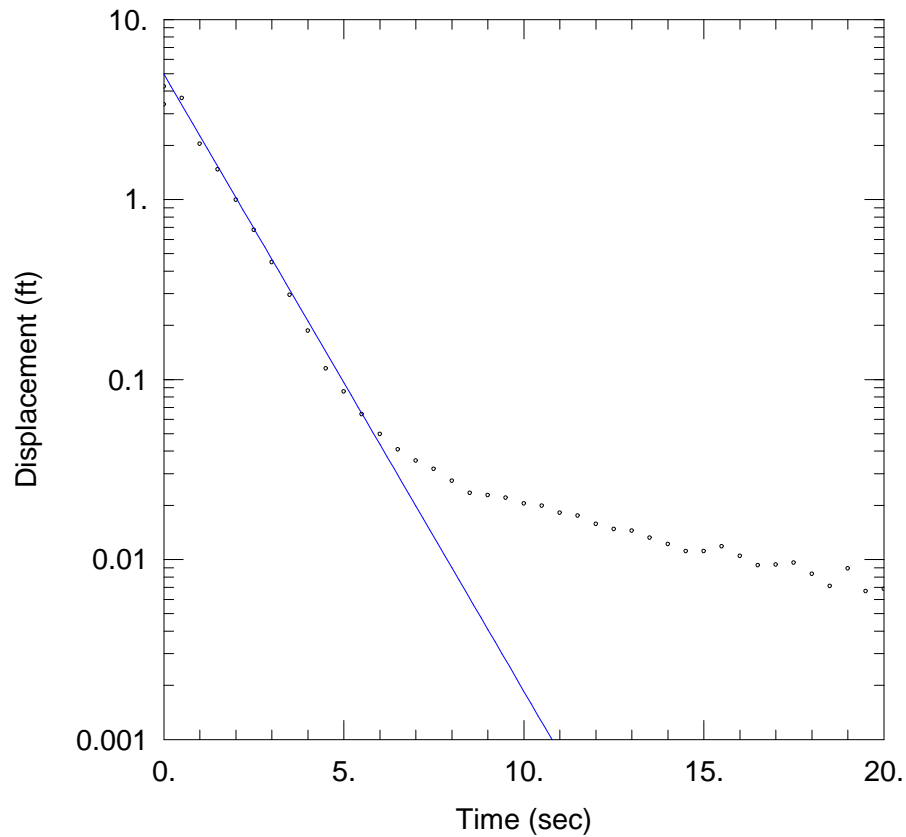
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.28 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW12-50 RISING HEAD TEST 4

Data Set: N:\...\721-MW12-50-RH4.aqt

Date: 05/13/13

Time: 09:12:37

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW12-50

Test Date: January 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.05218 cm/sec

y0 = 4.967 ft

AQUIFER DATA

Saturated Thickness: 10. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW12-50)

Initial Displacement: 3.375 ft

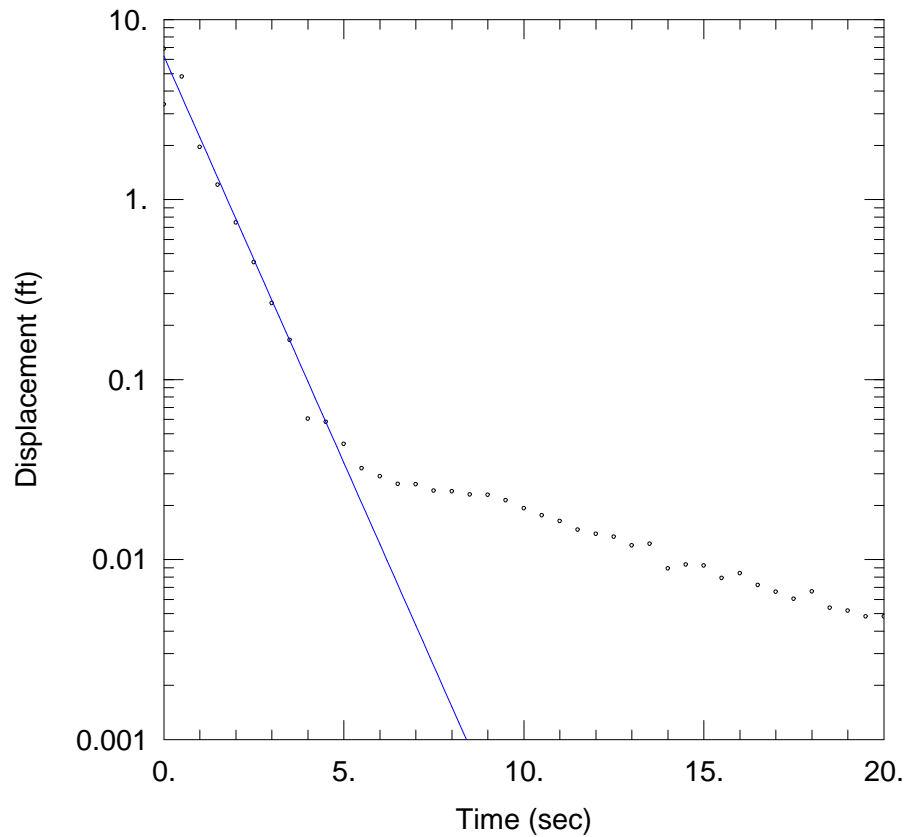
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.28 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW12-50 RISING HEAD TEST 5

Data Set: N:\...\721-MW12-50-RH5.aqt

Date: 05/13/13

Time: 09:12:25

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW12-50

Test Date: January 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.06879 cm/sec

y0 = 6.254 ft

AQUIFER DATA

Saturated Thickness: 10. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW12-50)

Initial Displacement: 3.375 ft

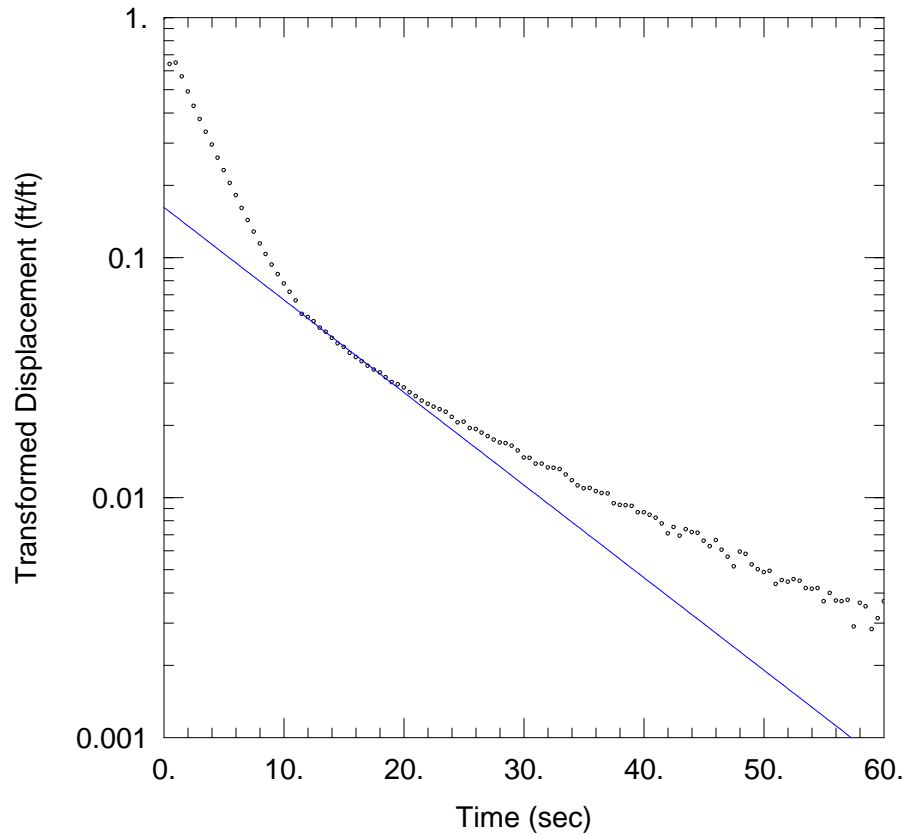
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.28 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW13-15 RISING HEAD TEST 1

Data Set: N:\...\721-MW13-15-RH1.aqt

Date: 05/09/13

Time: 10:21:30

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW13-15

Test Date: January 28, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.0109 cm/sec

y0 = 0.6548 ft

AQUIFER DATA

Saturated Thickness: 10.43 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW13-15)

Initial Displacement: 3.375 ft

Total Well Penetration Depth: 8.53 ft

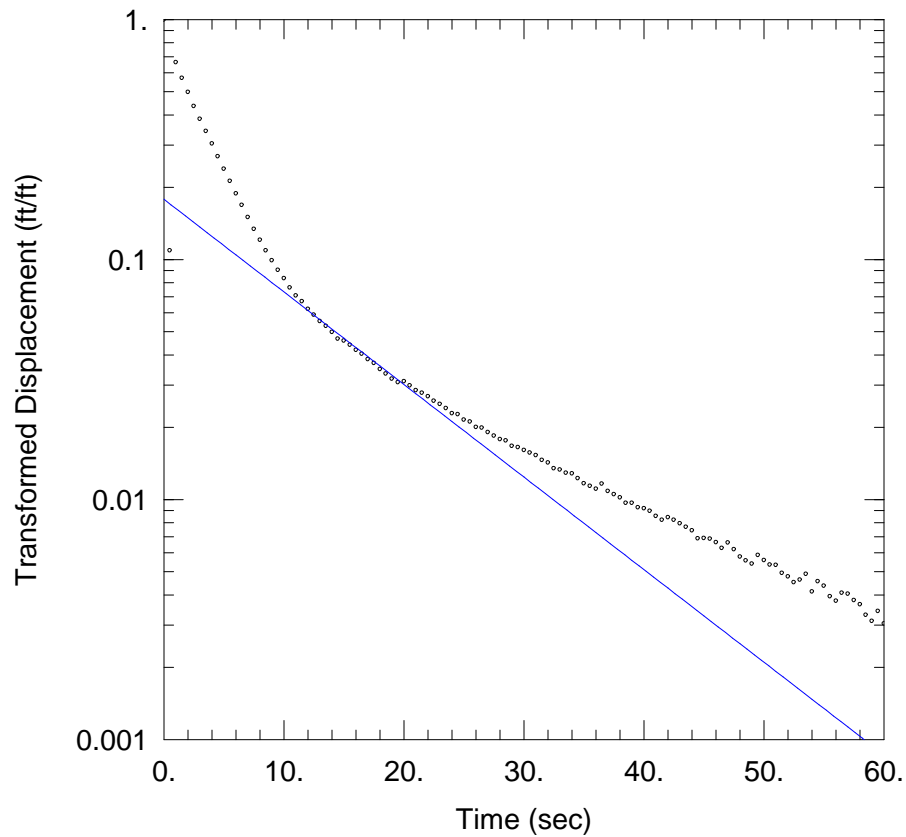
Casing Radius: 0.0835 ft

Static Water Column Height: 8.53 ft

Screen Length: 8.53 ft

Well Radius: 0.25 ft

Gravel Pack Porosity: 0.3



721-MW13-15 RISING HEAD TEST 2

Data Set: N:\...\721-MW13-15-RH2.aqt
 Date: 05/09/13 Time: 10:22:11

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 721-MW13-15
 Test Date: January 28, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Dagan
 $K = 0.0109$ cm/sec
 $y_0 = 0.718$ ft

AQUIFER DATA

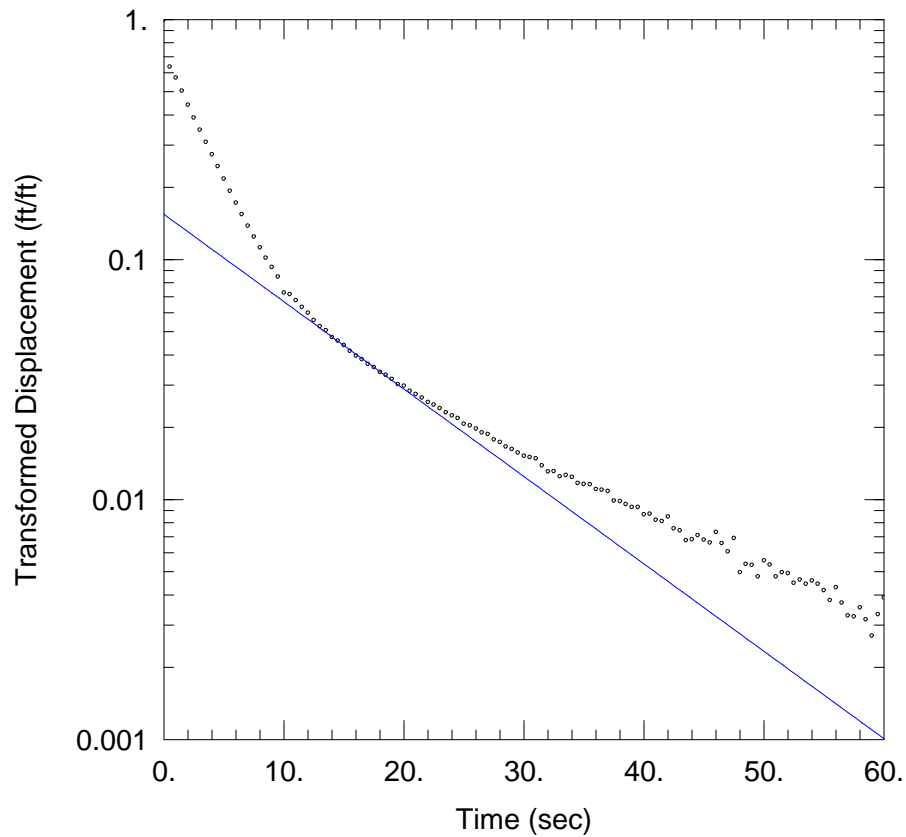
Saturated Thickness: 10.43 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (721-MW13-15)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8.53 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 8.53 ft
 Screen Length: 8.53 ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.3



721-MW13-15 RISING HEAD TEST 3

Data Set: N:\...\721-MW13-15-RH3.aqt

Date: 05/09/13

Time: 10:21:57

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW13-15

Test Date: January 28, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.01029 cm/sec

y0 = 0.6254 ft

AQUIFER DATA

Saturated Thickness: 10.43 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW13-15)

Initial Displacement: 3.375 ft

Total Well Penetration Depth: 8.53 ft

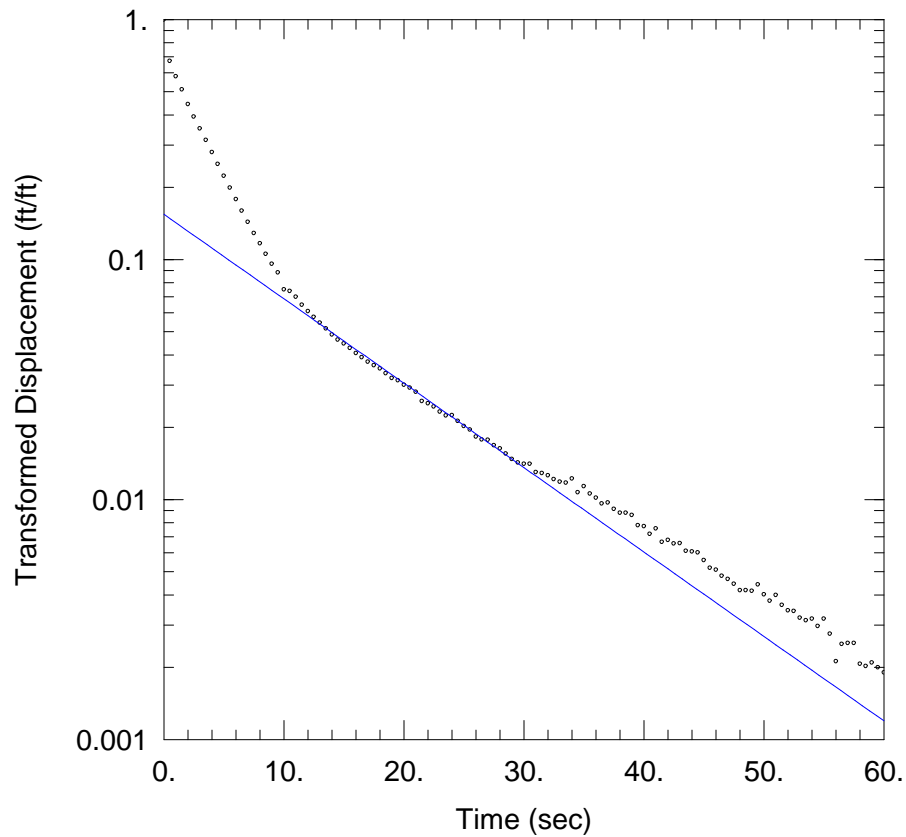
Casing Radius: 0.0835 ft

Static Water Column Height: 8.53 ft

Screen Length: 8.53 ft

Well Radius: 0.25 ft

Gravel Pack Porosity: 0.3



721-MW13-15 RISING HEAD TEST 4

Data Set: N:\...\721-MW13-15-RH4.aqt

Date: 05/09/13

Time: 10:21:43

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW13-15

Test Date: January 28, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.009943 cm/sec

y0 = 0.6254 ft

AQUIFER DATA

Saturated Thickness: 10.43 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW13-15)

Initial Displacement: 3.375 ft

Total Well Penetration Depth: 8.53 ft

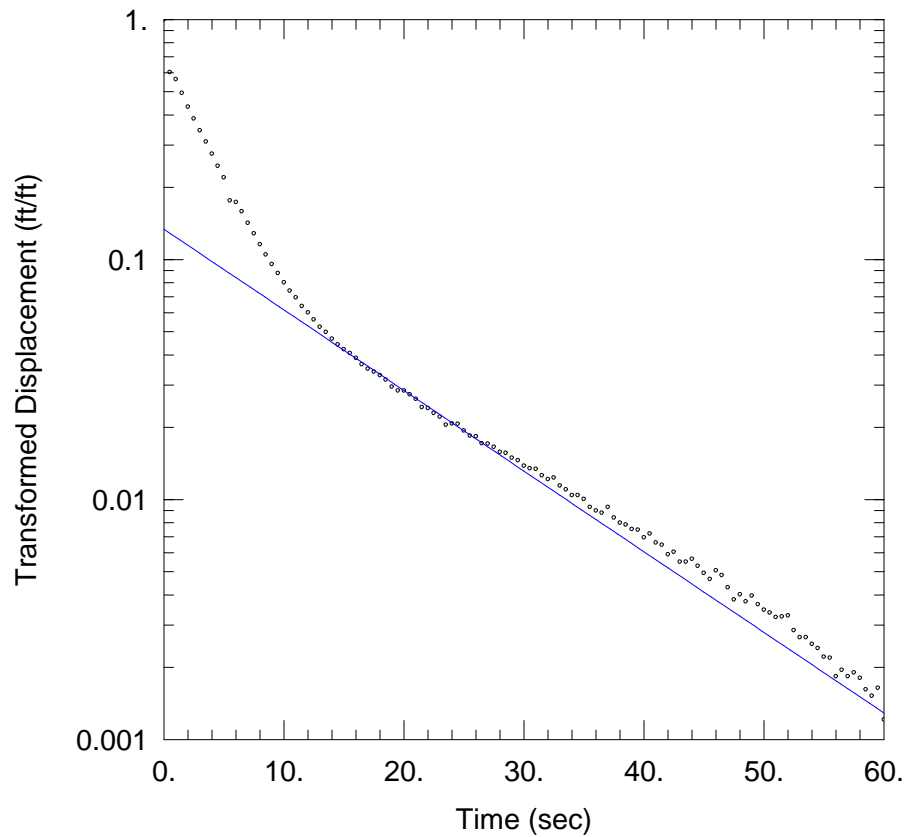
Casing Radius: 0.0835 ft

Static Water Column Height: 8.53 ft

Screen Length: 8.53 ft

Well Radius: 0.25 ft

Gravel Pack Porosity: 0.3



721-MW13-15 RISING HEAD TEST 5

Data Set: N:\...\721-MW13-15-RH5.aqt

Date: 05/09/13

Time: 10:21:17

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW13-15

Test Date: January 28, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.009496 cm/sec

y0 = 0.5447 ft

AQUIFER DATA

Saturated Thickness: 10.43 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW13-15)

Initial Displacement: 3.375 ft

Total Well Penetration Depth: 8.53 ft

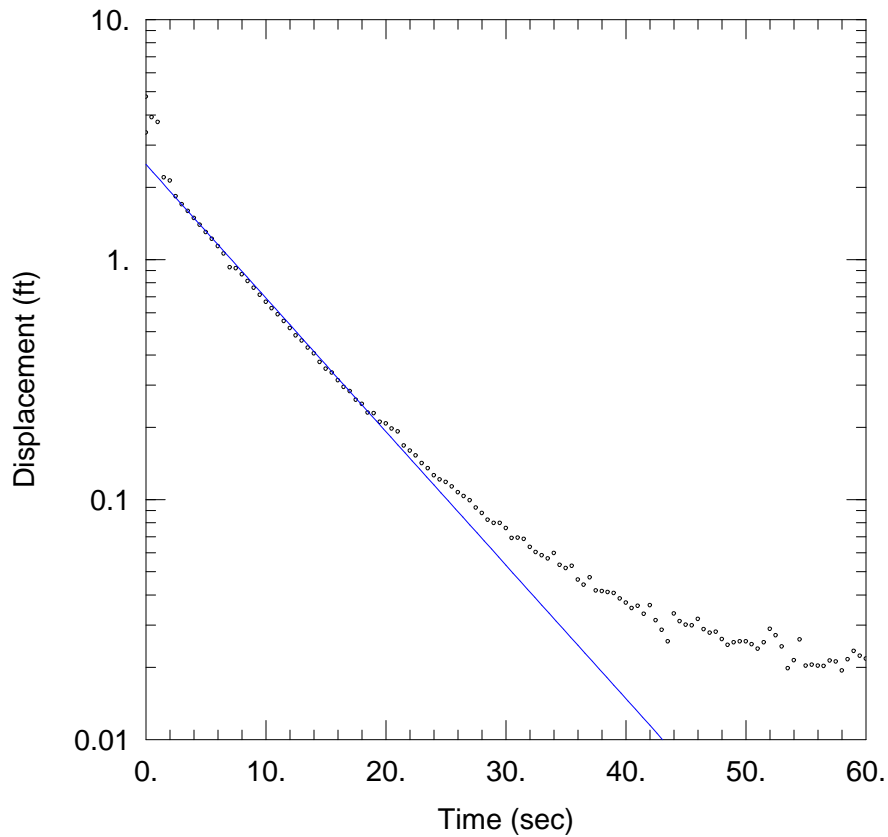
Casing Radius: 0.0835 ft

Static Water Column Height: 8.53 ft

Screen Length: 8.53 ft

Well Radius: 0.25 ft

Gravel Pack Porosity: 0.3



721-MW13-25 FALLING HEAD TEST 1

Data Set: N:\...\721-MW13-25-FH1.aqt

Date: 05/10/13

Time: 13:52:16

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW13-25

Test Date: January 30, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.00866 cm/sec

y0 = 2.49 ft

AQUIFER DATA

Saturated Thickness: 8.9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW13-25)

Initial Displacement: 3.375 ft

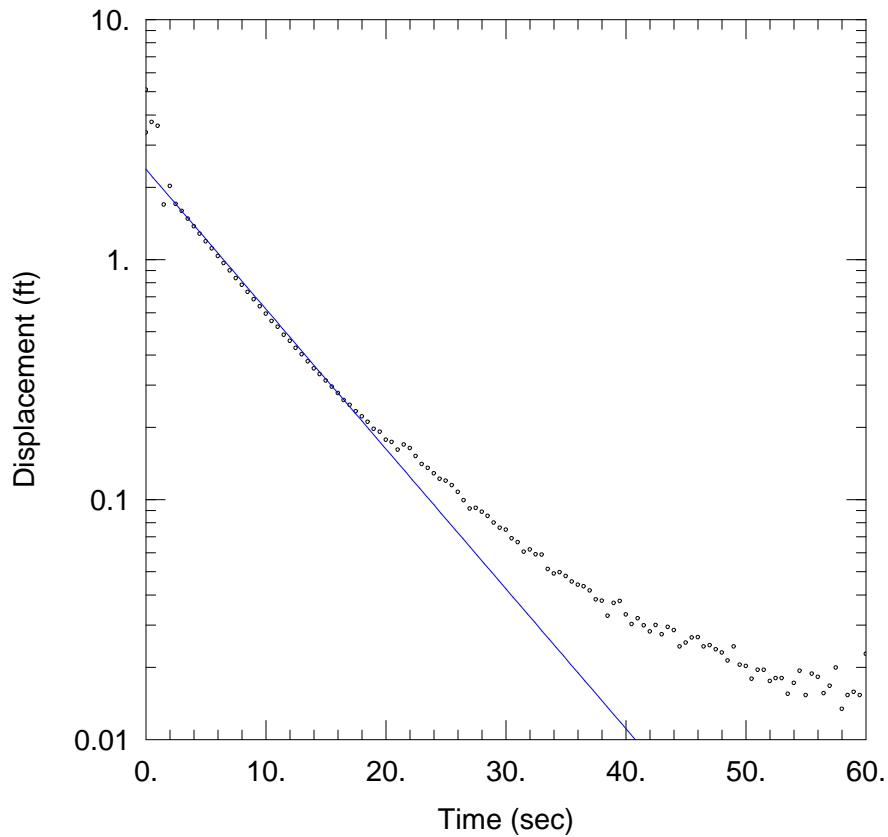
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 14.81 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW13-25 FALLING HEAD TEST 2

Data Set: N:\...\721-MW13-25-FH2.aqt

Date: 05/10/13

Time: 13:52:04

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW13-25

Test Date: January 30, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.009068$ cm/sec

$y_0 = 2.378$ ft

AQUIFER DATA

Saturated Thickness: 8.9 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (721-MW13-25)

Initial Displacement: 3.375 ft

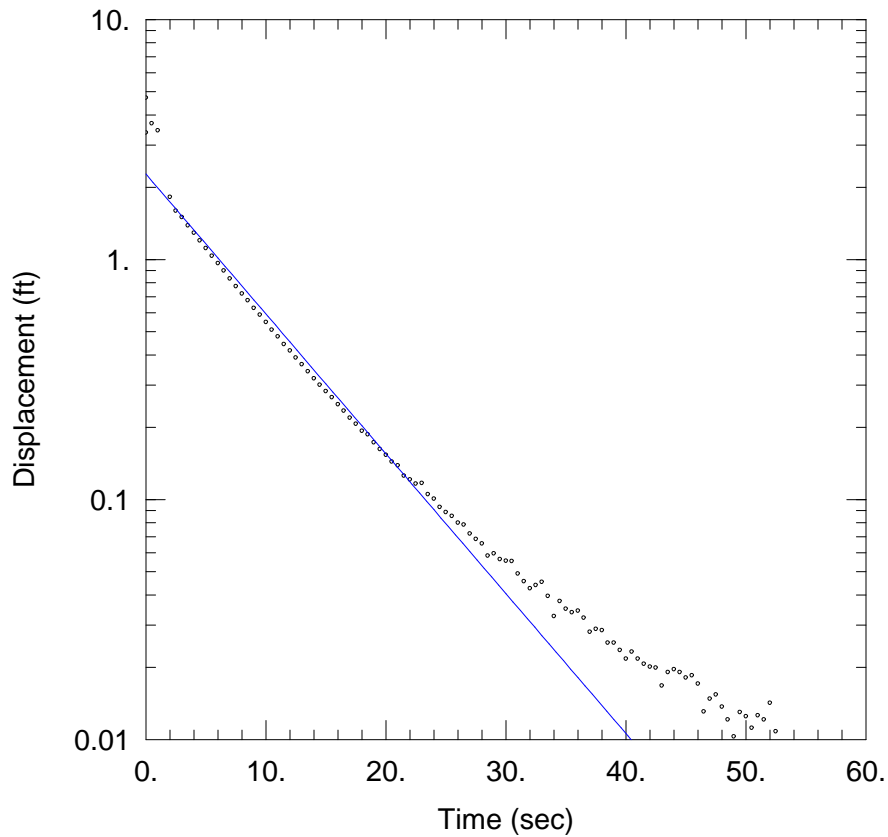
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 14.81 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW13-25 FALLING HEAD TEST 3

Data Set: N:\...\721-MW13-25-FH3.aqt

Date: 05/10/13

Time: 13:51:52

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW13-25

Test Date: January 30, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.009068$ cm/sec

$y_0 = 2.271$ ft

AQUIFER DATA

Saturated Thickness: 8.9 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (721-MW13-25)

Initial Displacement: 3.375 ft

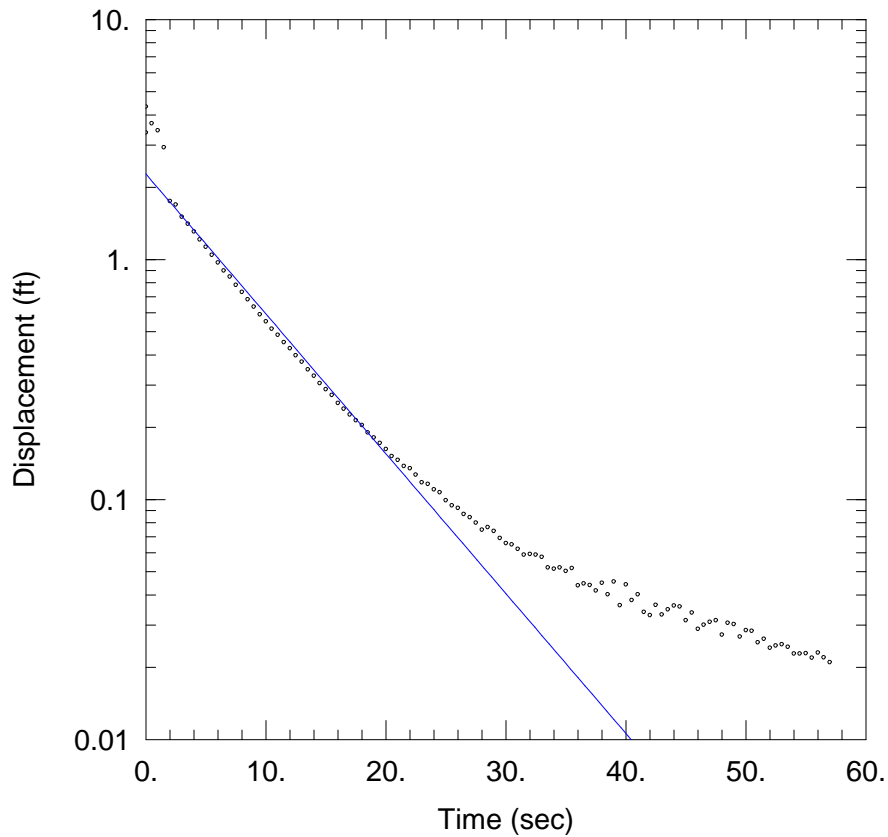
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 14.81 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW13-25 FALLING HEAD TEST 4

Data Set: N:\...\721-MW13-25-FH4.aqt

Date: 05/10/13

Time: 13:51:40

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW13-25

Test Date: January 30, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.009068 cm/sec

y0 = 2.271 ft

AQUIFER DATA

Saturated Thickness: 8.9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW13-25)

Initial Displacement: 3.375 ft

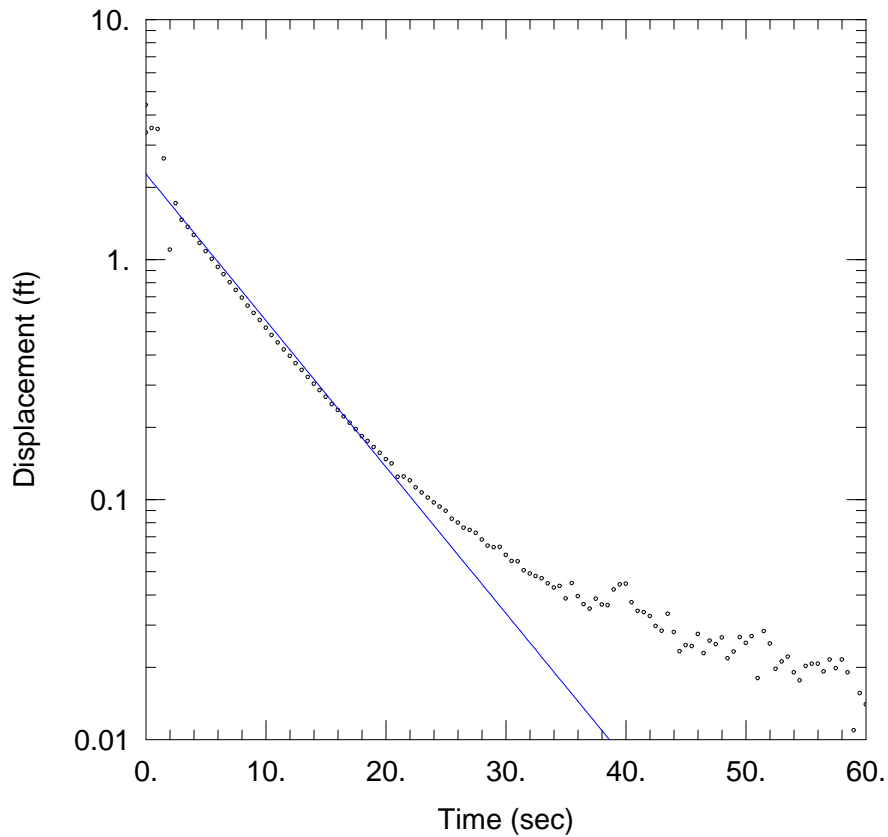
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 14.81 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW13-25 FALLING HEAD TEST 5

Data Set: N:\...\721-MW13-25-FH5.aqt

Date: 05/10/13

Time: 13:51:27

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW13-25

Test Date: January 30, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.009496$ cm/sec

$y_0 = 2.271$ ft

AQUIFER DATA

Saturated Thickness: 8.9 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (721-MW13-25)

Initial Displacement: 3.375 ft

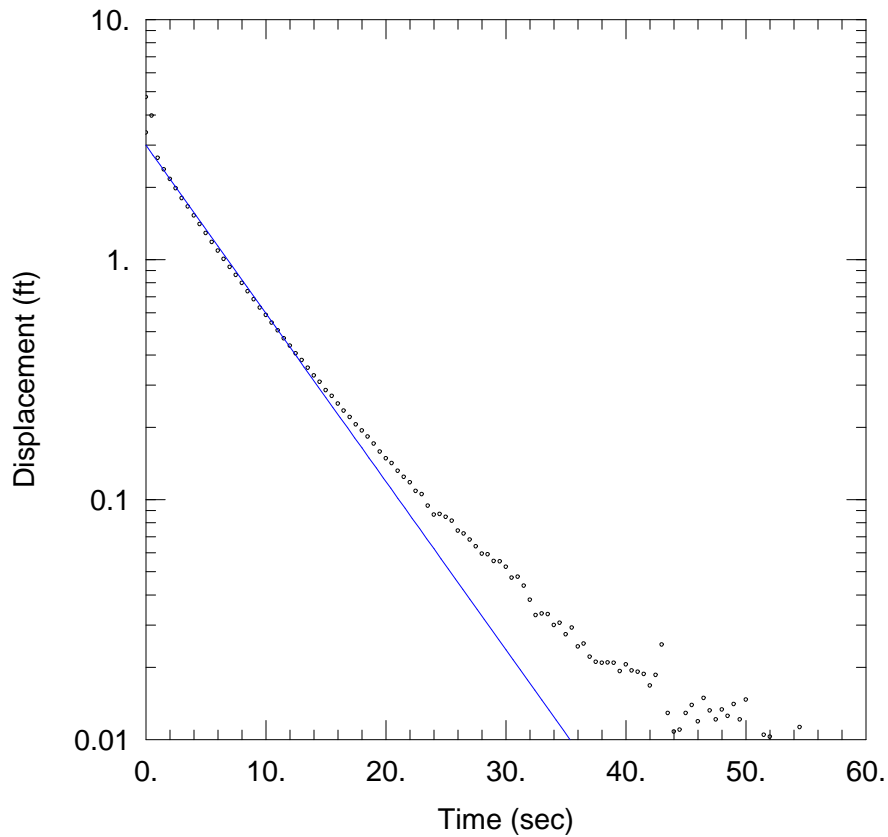
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 14.81 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW13-25 RISING HEAD TEST 1

Data Set: N:\...\721-MW13-25-RH1.aqt

Date: 05/10/13

Time: 13:55:37

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW13-25

Test Date: January 30, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0109 cm/sec

y0 = 2.993 ft

AQUIFER DATA

Saturated Thickness: 8.9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW13-25)

Initial Displacement: 3.375 ft

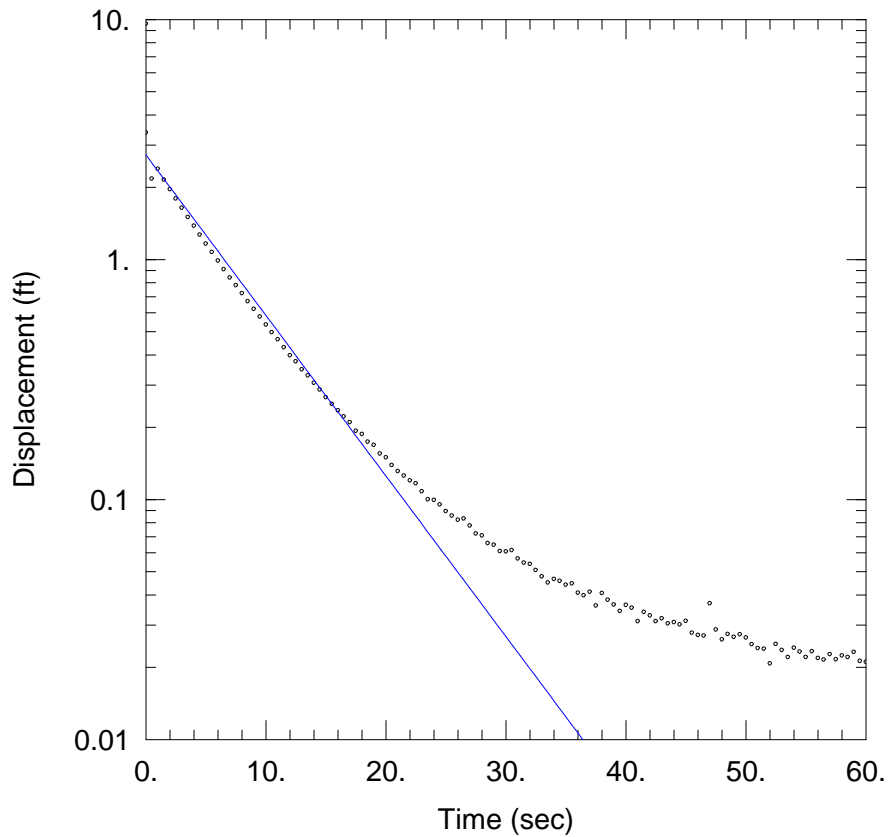
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 14.81 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW13-25 RISING HEAD TEST 2

Data Set: N:\...\721-MW13-25-RH2.aqt

Date: 05/10/13

Time: 13:55:24

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW13-25

Test Date: January 30, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01041 cm/sec

y0 = 2.73 ft

AQUIFER DATA

Saturated Thickness: 8.9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW13-25)

Initial Displacement: 3.375 ft

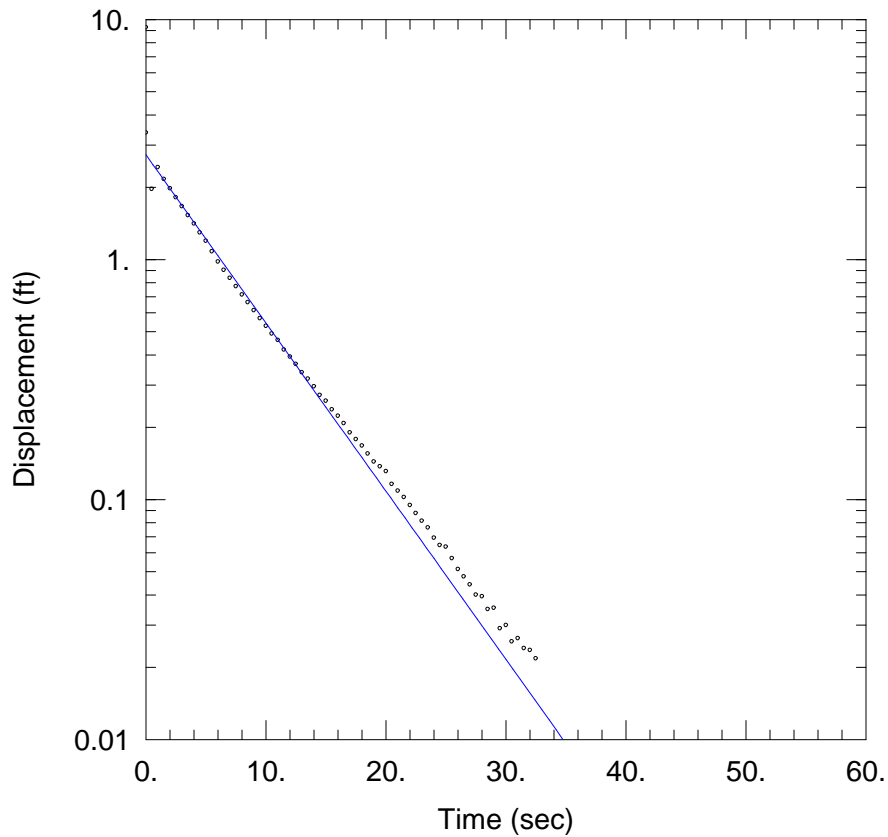
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 14.81 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW13-25 RISING HEAD TEST 3

Data Set: N:\...\721-MW13-25-RH3.aqt

Date: 05/10/13

Time: 13:55:12

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW13-25

Test Date: January 30, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.0109$ cm/sec

$y_0 = 2.73$ ft

AQUIFER DATA

Saturated Thickness: 8.9 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (721-MW13-25)

Initial Displacement: 3.375 ft

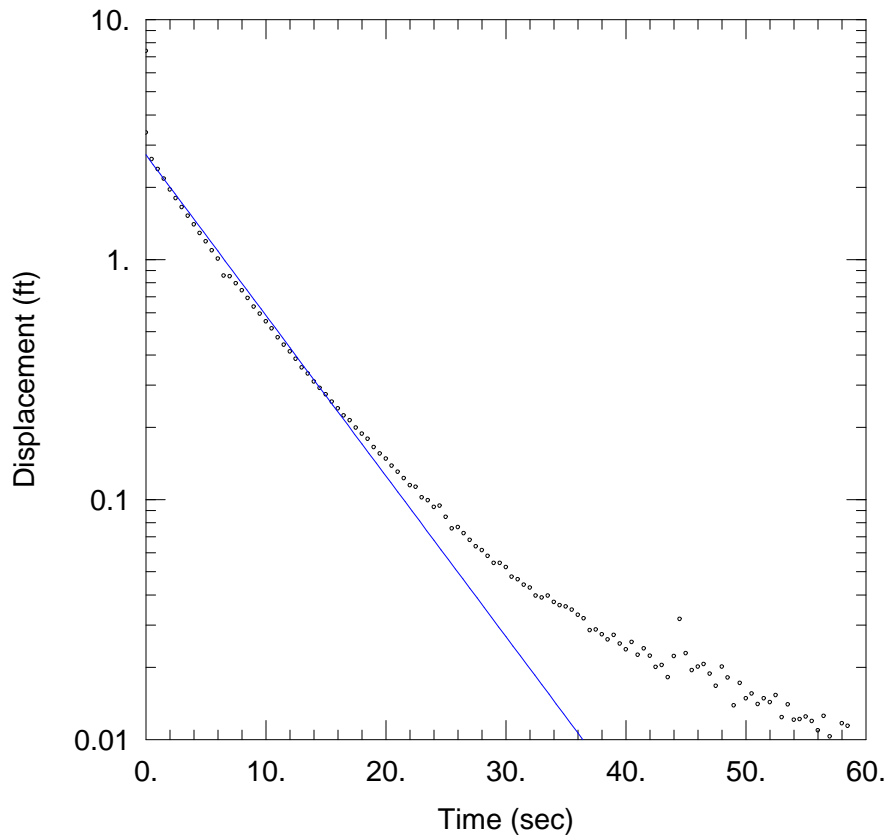
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 14.81 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW13-25 RISING HEAD TEST 4

Data Set: N:\...\721-MW13-25-RH4.aqt

Date: 05/10/13

Time: 13:55:01

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW13-25

Test Date: January 30, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01041 cm/sec

y0 = 2.73 ft

AQUIFER DATA

Saturated Thickness: 8.9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW13-25)

Initial Displacement: 3.375 ft

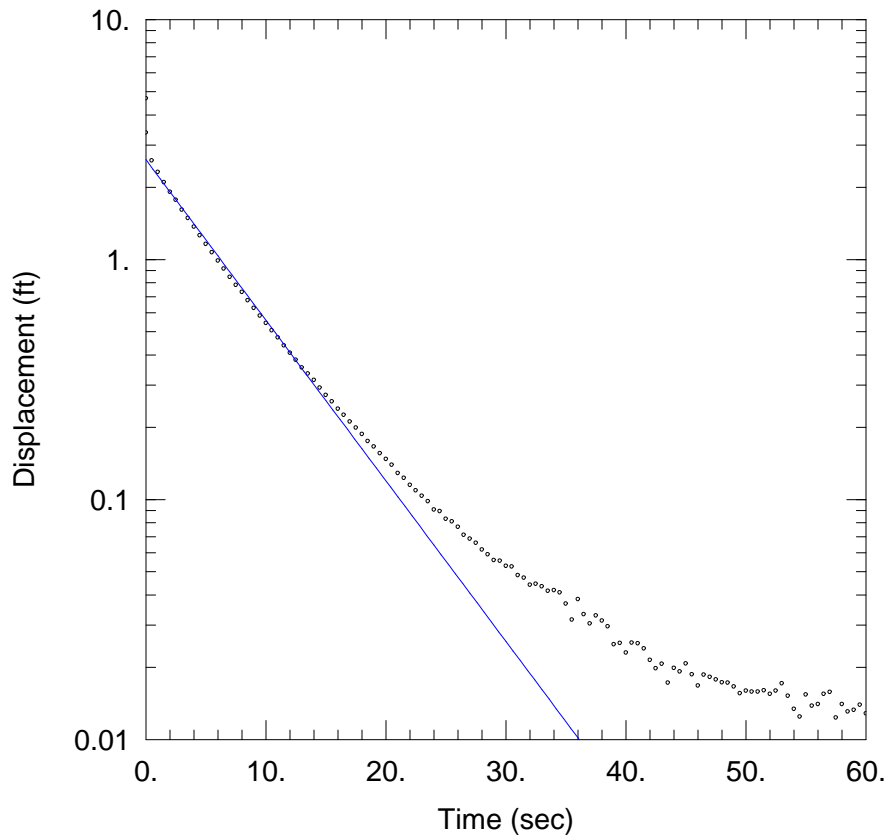
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 14.81 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW13-25 RISING HEAD TEST 5

Data Set: N:\...\721-MW13-25-RH5.aqt

Date: 05/10/13

Time: 13:54:48

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW13-25

Test Date: January 30, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01041 cm/sec

y0 = 2.607 ft

AQUIFER DATA

Saturated Thickness: 8.9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW13-25)

Initial Displacement: 3.375 ft

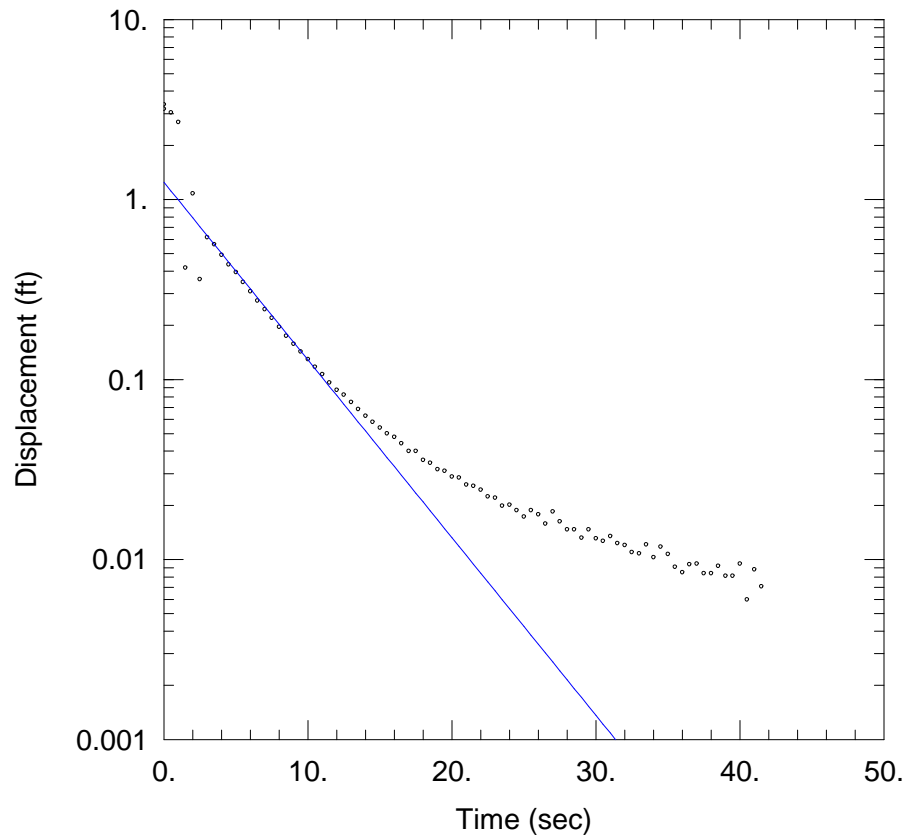
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 14.81 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW13-50 FALLING HEAD TEST 1

Data Set: N:\...\721-MW13-50-FH1.aqt

Date: 05/10/13

Time: 14:05:20

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW13-50

Test Date: January 30, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01505 cm/sec

y0 = 1.248 ft

AQUIFER DATA

Saturated Thickness: 9.9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW13-50)

Initial Displacement: 3.375 ft

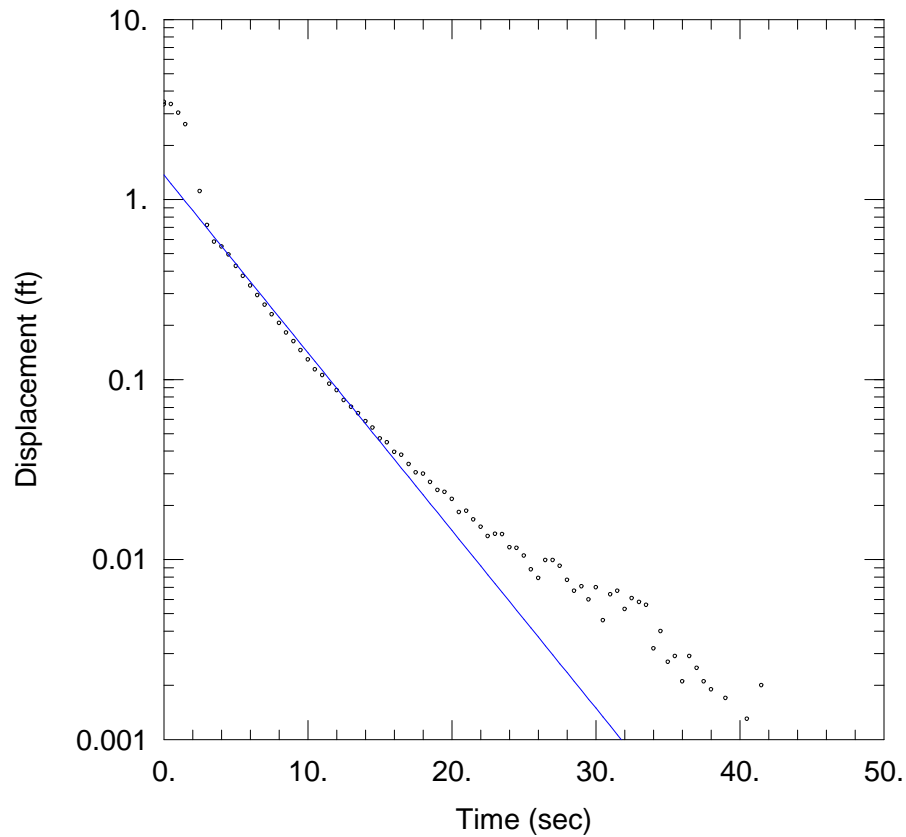
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.27 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW13-50 FALLING HEAD TEST 2

Data Set: N:\...\721-MW13-50-FH2.aqt

Date: 05/10/13

Time: 14:05:07

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW13-50

Test Date: January 30, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01505 cm/sec

y0 = 1.368 ft

AQUIFER DATA

Saturated Thickness: 9.9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW13-50)

Initial Displacement: 3.375 ft

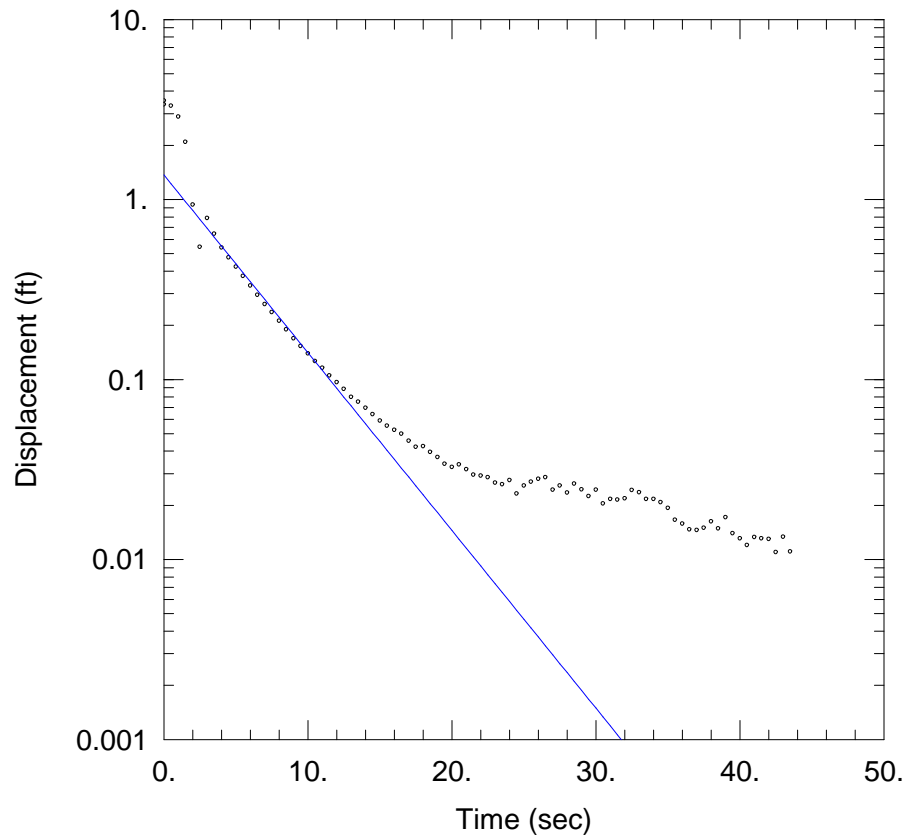
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.27 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW13-50 FALLING HEAD TEST 3

Data Set: N:\...\721-MW13-50-FH3.aqt

Date: 05/10/13

Time: 14:04:55

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW13-50

Test Date: January 30, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01505 cm/sec

y0 = 1.368 ft

AQUIFER DATA

Saturated Thickness: 9.9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW13-50)

Initial Displacement: 3.375 ft

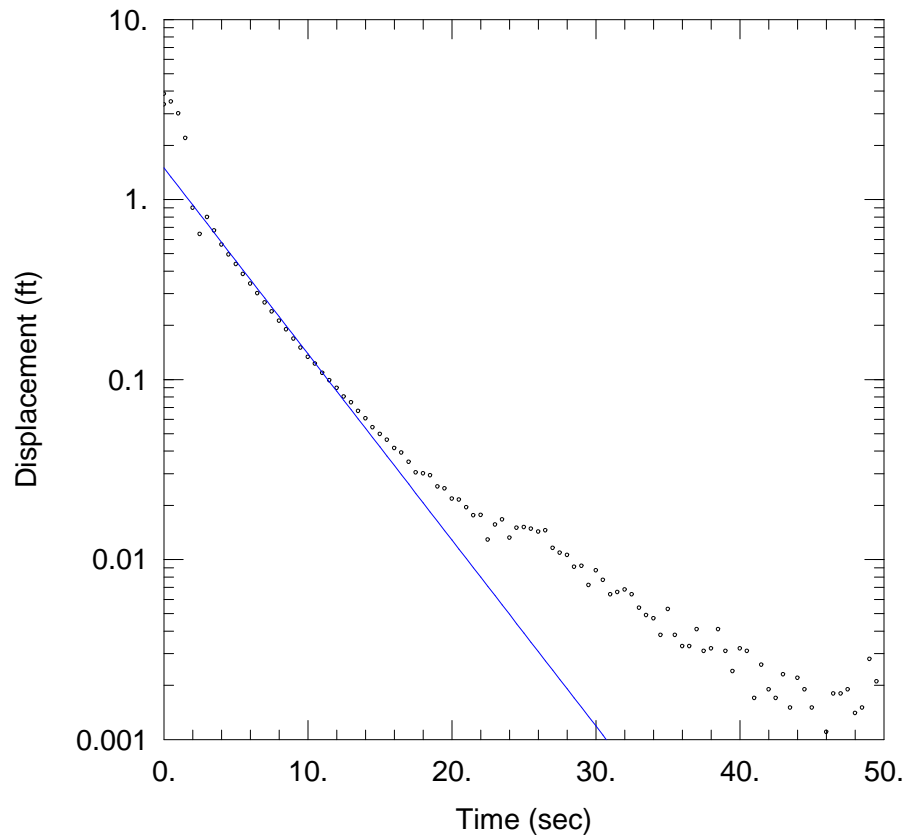
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.27 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW13-50 FALLING HEAD TEST 4

Data Set: N:\...\721-MW13-50-FH4.aqt

Date: 05/10/13

Time: 14:04:42

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW13-50

Test Date: January 30, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.01576$ cm/sec

$y_0 = 1.5$ ft

AQUIFER DATA

Saturated Thickness: 9.9 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (721-MW13-50)

Initial Displacement: 3.375 ft

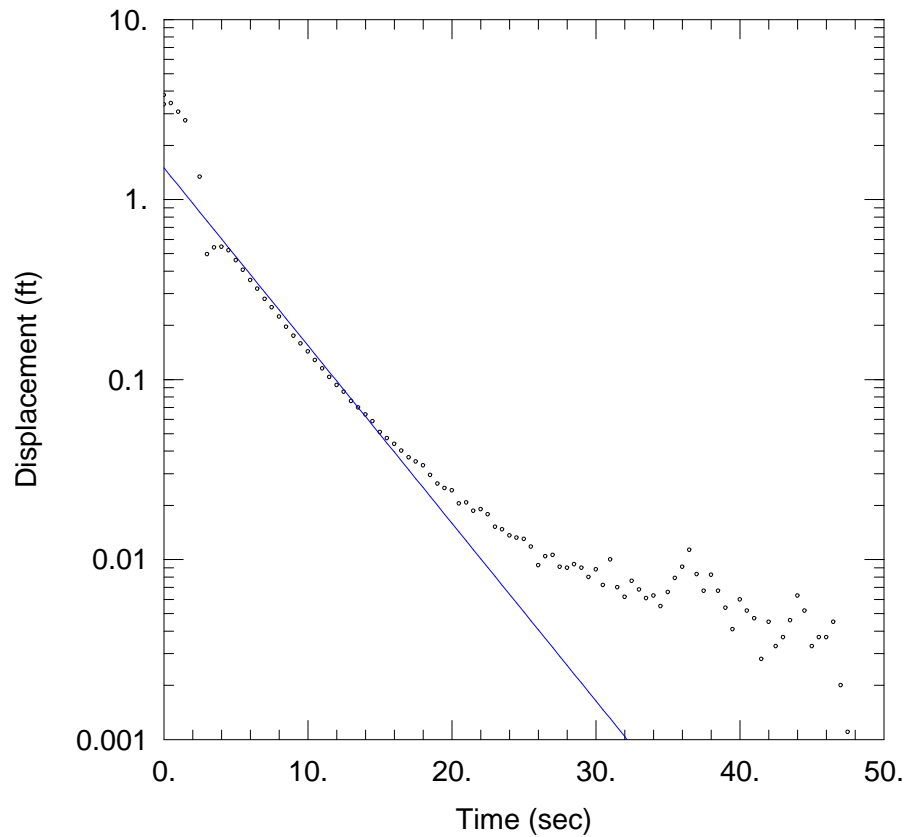
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.27 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW13-50 FALLING HEAD TEST 5

Data Set: N:\...\721-MW13-50-FH5.aqt

Date: 05/10/13

Time: 14:04:29

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW13-50

Test Date: January 30, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01505 cm/sec

y0 = 1.5 ft

AQUIFER DATA

Saturated Thickness: 9.9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW13-50)

Initial Displacement: 3.375 ft

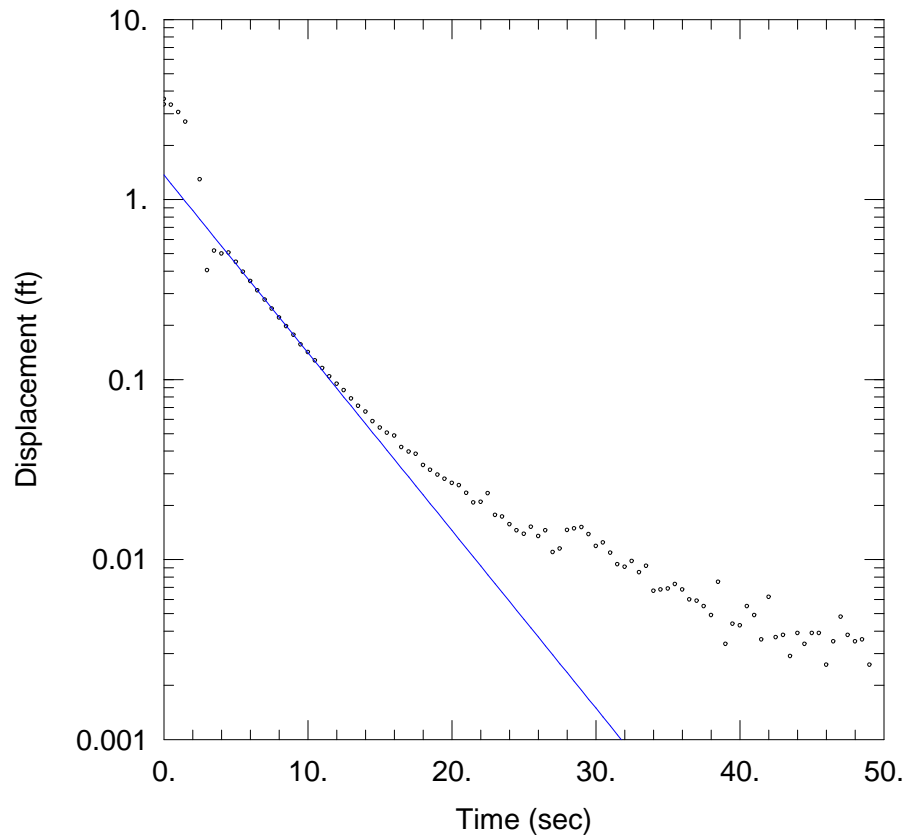
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.27 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW13-50 FALLING HEAD TEST 6

Data Set: N:\...\721-MW13-50-FH6.aqt

Date: 05/10/13

Time: 14:04:16

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW13-50

Test Date: January 30, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01505 cm/sec

y0 = 1.368 ft

AQUIFER DATA

Saturated Thickness: 9.9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW13-50)

Initial Displacement: 3.375 ft

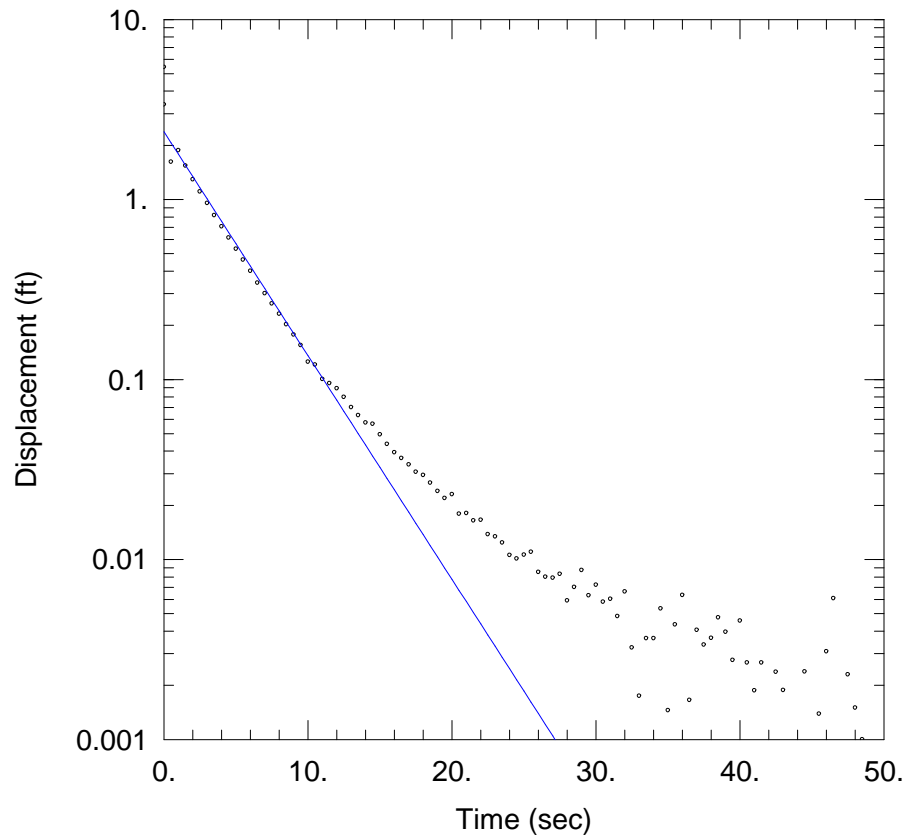
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.27 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW13-50 RISING HEAD TEST 1

Data Set: N:\...\721-MW13-50-RH1.aqt

Date: 05/10/13

Time: 14:09:57

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW13-50

Test Date: January 30, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01895 cm/sec

y0 = 2.378 ft

AQUIFER DATA

Saturated Thickness: 9.9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW13-50)

Initial Displacement: 3.375 ft

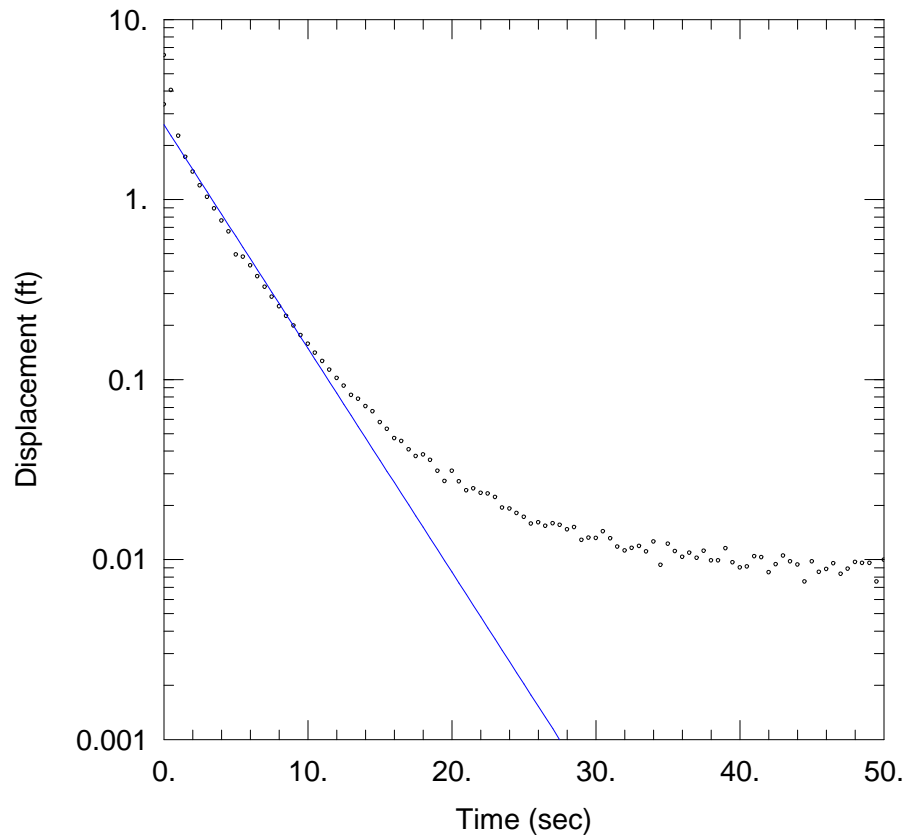
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.27 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW13-50 RISING HEAD TEST 2

Data Set: N:\...\721-MW13-50-RH2.aqt

Date: 05/10/13

Time: 14:09:47

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW13-50

Test Date: January 30, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01895 cm/sec

y0 = 2.607 ft

AQUIFER DATA

Saturated Thickness: 9.9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW13-50)

Initial Displacement: 3.375 ft

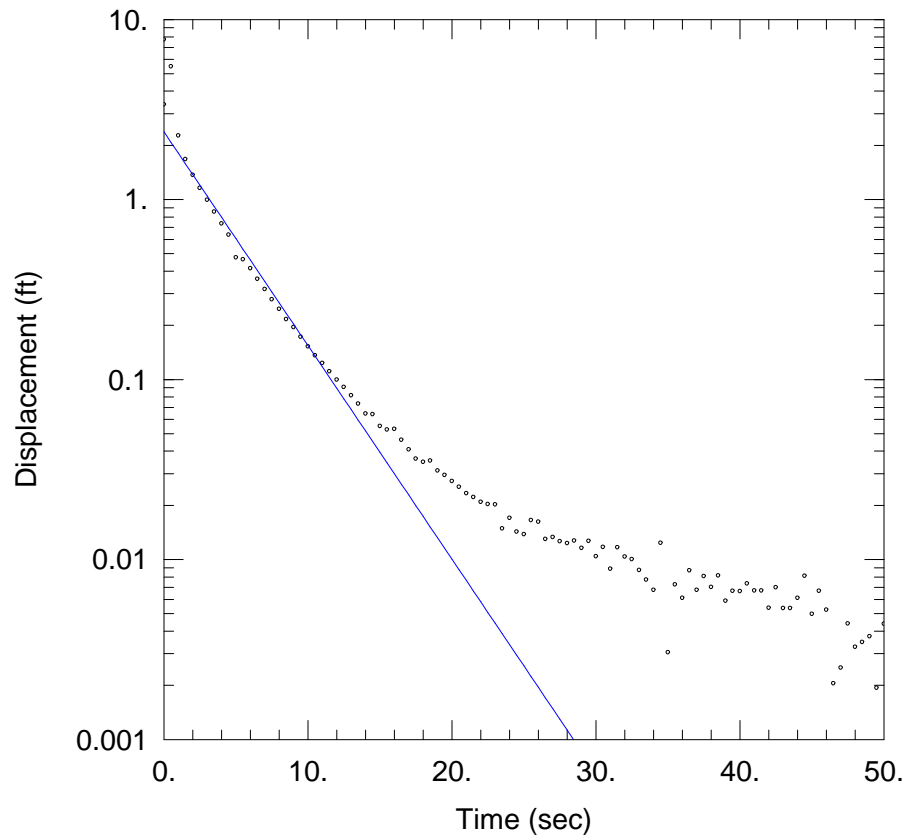
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.27 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW13-50 RISING HEAD TEST 3

Data Set: N:\...\721-MW13-50-RH3.aqt

Date: 05/10/13

Time: 14:09:35

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW13-50

Test Date: January 30, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01809 cm/sec

y0 = 2.378 ft

AQUIFER DATA

Saturated Thickness: 9.9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW13-50)

Initial Displacement: 3.375 ft

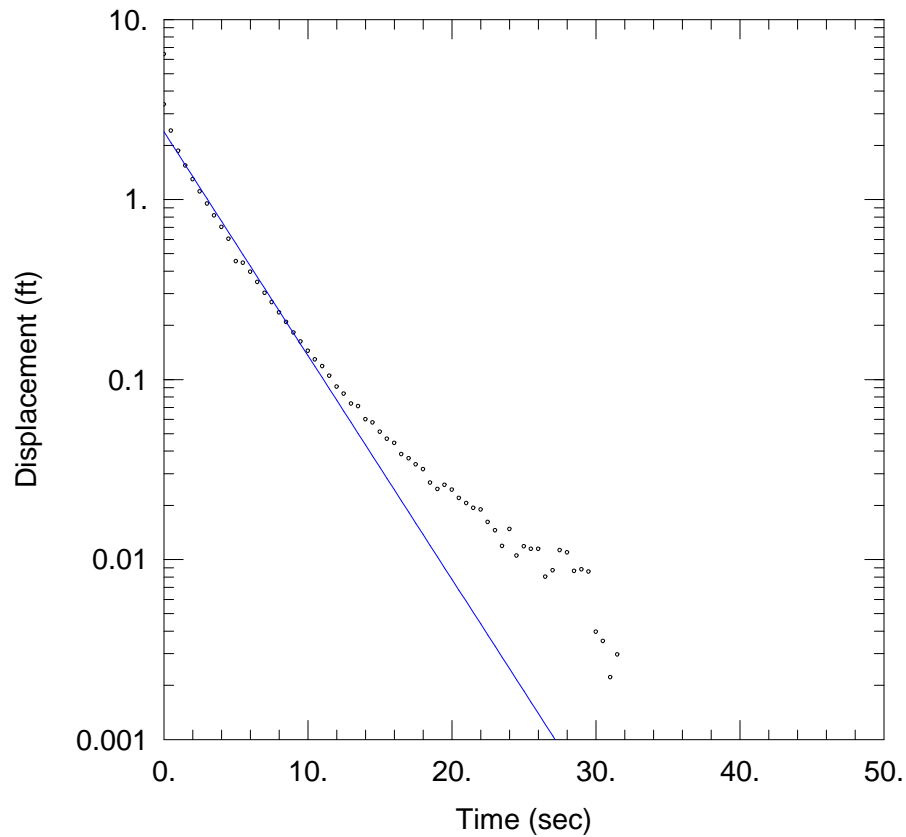
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.27 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW13-50 RISING HEAD TEST 4

Data Set: N:\...\721-MW13-50-RH4.aqt

Date: 05/10/13

Time: 14:09:23

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW13-50

Test Date: January 30, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01895 cm/sec

y0 = 2.378 ft

AQUIFER DATA

Saturated Thickness: 9.9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW13-50)

Initial Displacement: 3.375 ft

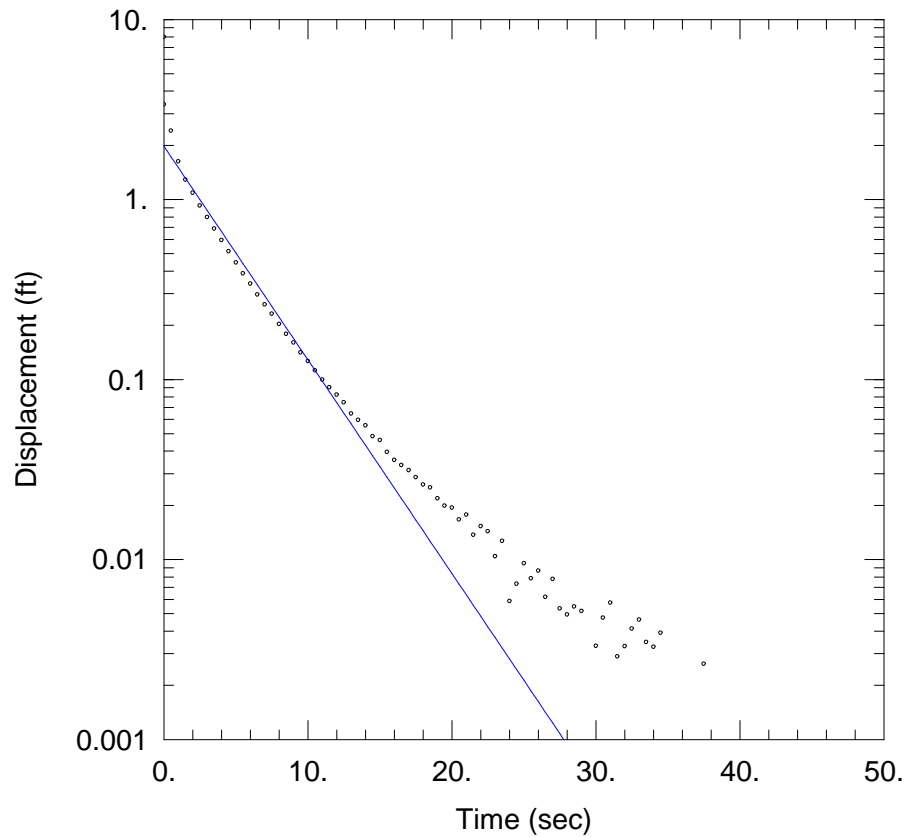
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.27 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW13-50 RISING HEAD TEST 5

Data Set: N:\...\721-MW13-50-RH5.aqt

Date: 05/10/13

Time: 14:09:11

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW13-50

Test Date: January 30, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01809 cm/sec

y0 = 1.978 ft

AQUIFER DATA

Saturated Thickness: 9.9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW13-50)

Initial Displacement: 3.375 ft

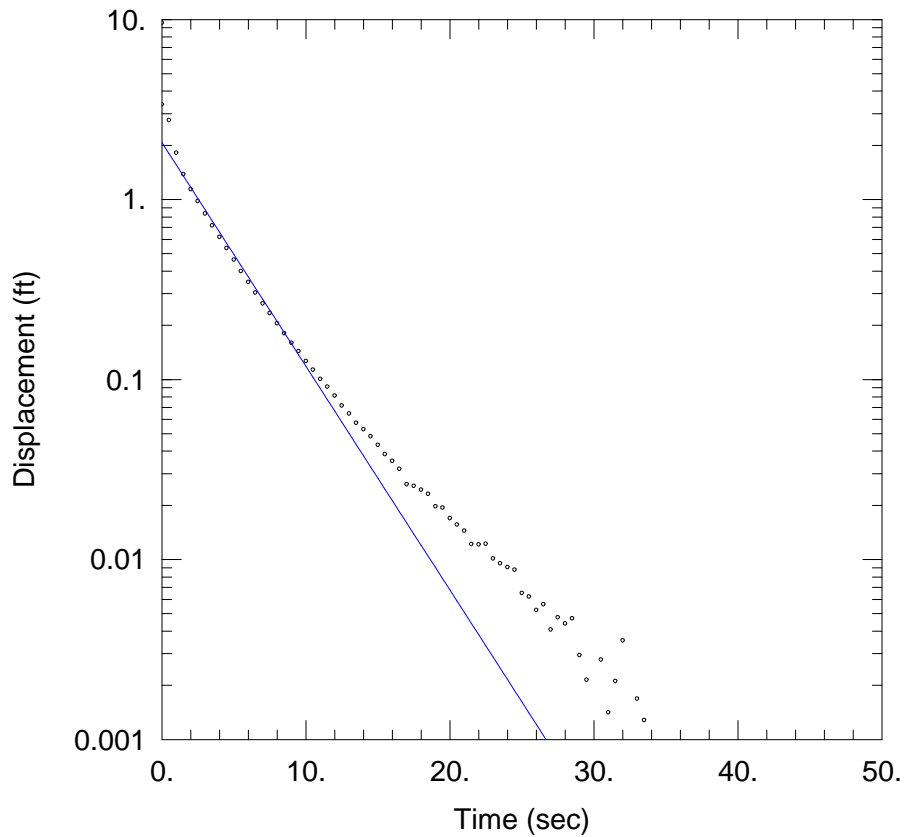
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.27 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW13-50 RISING HEAD TEST 6

Data Set: N:\...\721-MW13-50-RH6.aqt

Date: 05/10/13

Time: 14:09:00

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW13-50

Test Date: January 30, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01895 cm/sec

y0 = 2.071 ft

AQUIFER DATA

Saturated Thickness: 9.9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW13-50)

Initial Displacement: 3.375 ft

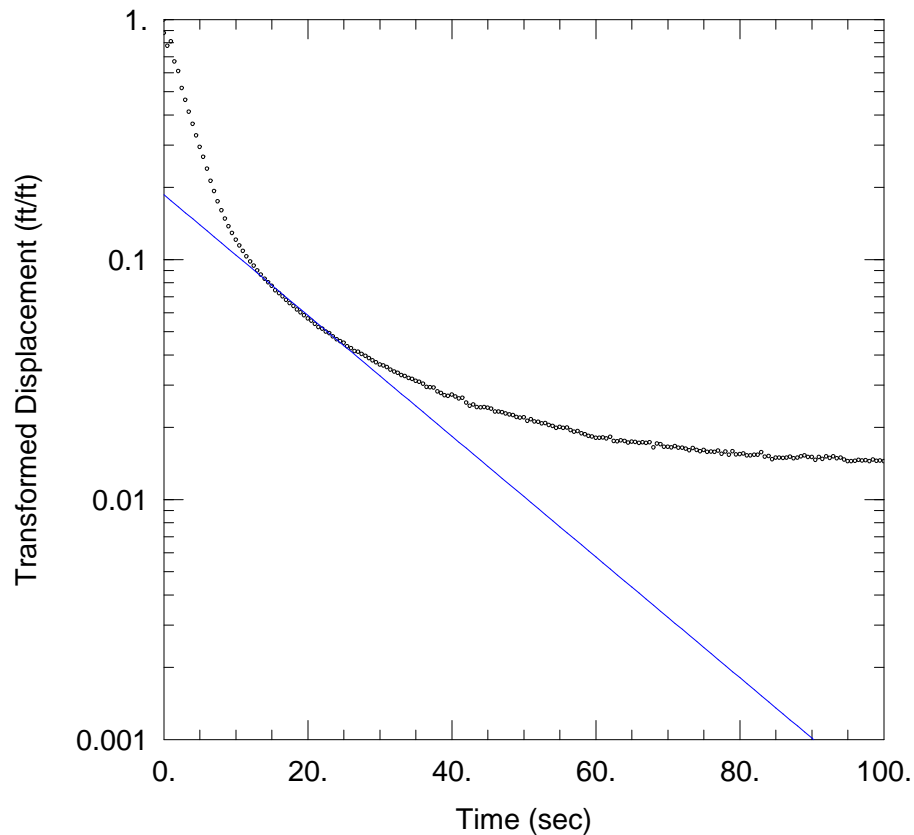
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.27 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW14-15 RISING HEAD TEST 1

Data Set: N:\...\721-MW14-15-RH1.aqt
 Date: 05/13/13 Time: 15:07:53

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 721-MW14-15
 Test Date: January 25, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Dagan
 $K = 0.007203$ cm/sec
 $y_0 = 0.7518$ ft

AQUIFER DATA

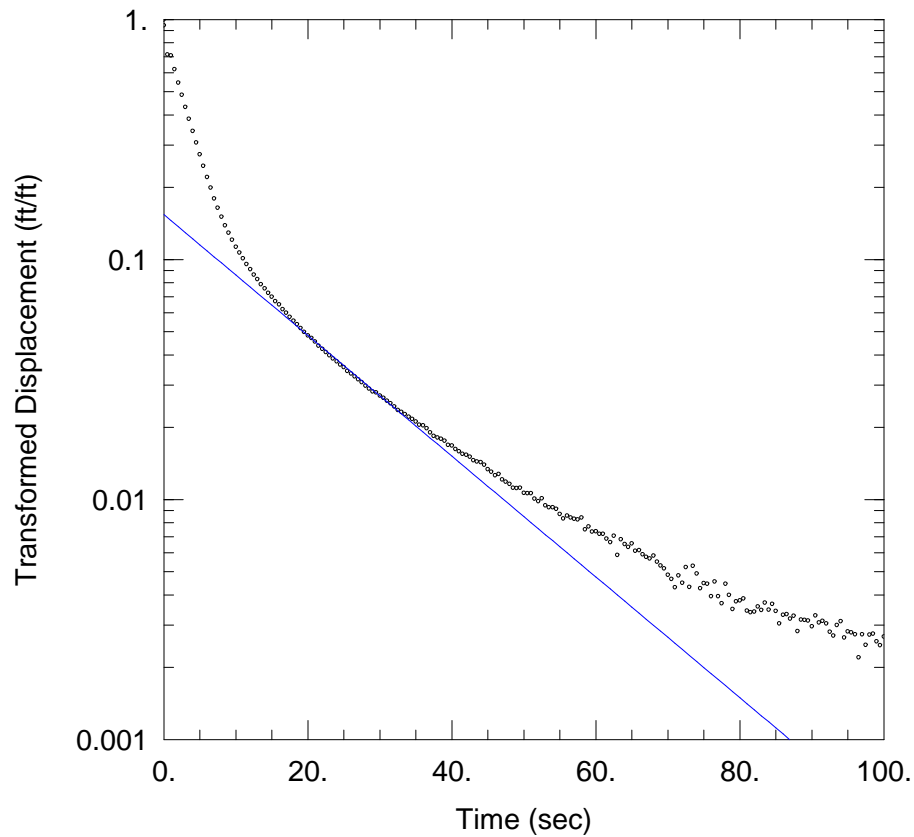
Saturated Thickness: 10.18 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (721-MW14-15)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8.38 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 8.38 ft
 Screen Length: 8.38 ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.3



721-MW14-15 RISING HEAD TEST 2

Data Set: N:\...\721-MW14-15-RH2.aqt

Date: 05/13/13

Time: 15:07:40

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW14-15

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.007203 cm/sec

y0 = 0.6254 ft

AQUIFER DATA

Saturated Thickness: 10.18 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW14-15)

Initial Displacement: 3.375 ft

Total Well Penetration Depth: 8.38 ft

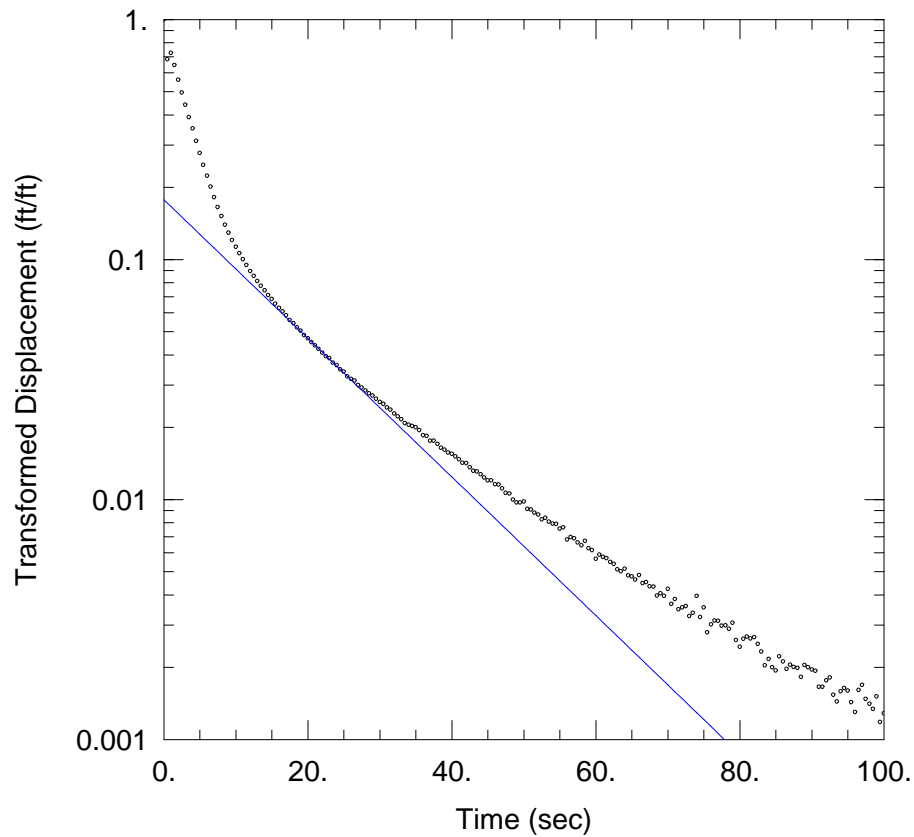
Casing Radius: 0.0835 ft

Static Water Column Height: 8.38 ft

Screen Length: 8.38 ft

Well Radius: 0.25 ft

Gravel Pack Porosity: 0.3



721-MW14-15 RISING HEAD TEST 3

Data Set: N:\...\721-MW14-15-RH3.aqt

Date: 05/13/13

Time: 15:07:27

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW14-15

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.00827 cm/sec

y0 = 0.718 ft

AQUIFER DATA

Saturated Thickness: 10.18 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW14-15)

Initial Displacement: 3.375 ft

Total Well Penetration Depth: 8.38 ft

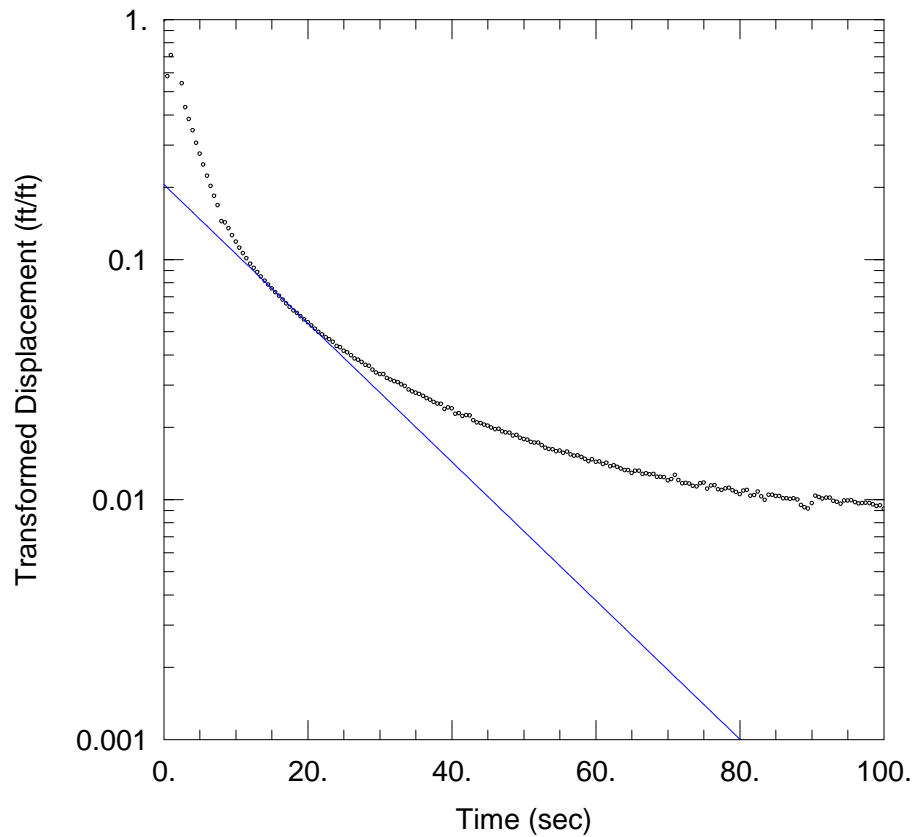
Casing Radius: 0.0835 ft

Static Water Column Height: 8.38 ft

Screen Length: 8.38 ft

Well Radius: 0.25 ft

Gravel Pack Porosity: 0.3



721-MW14-15 RISING HEAD TEST 4

Data Set: N:\...\721-MW14-15-RH4.aqt

Date: 05/13/13

Time: 15:07:14

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW14-15

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.00827 cm/sec

y0 = 0.8244 ft

AQUIFER DATA

Saturated Thickness: 10.18 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW14-15)

Initial Displacement: 3.375 ft

Total Well Penetration Depth: 8.38 ft

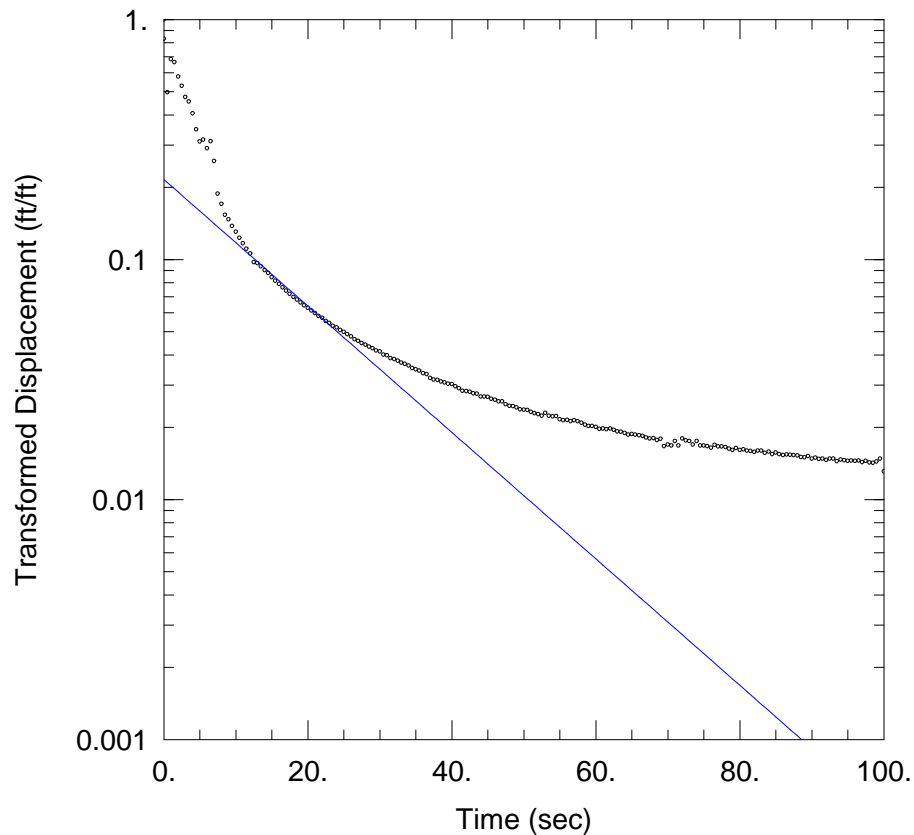
Casing Radius: 0.0835 ft

Static Water Column Height: 8.38 ft

Screen Length: 8.38 ft

Well Radius: 0.25 ft

Gravel Pack Porosity: 0.3



721-MW14-15 RISING HEAD TEST 5

Data Set: N:\...\721-MW14-15-RH5.aqt

Date: 05/13/13

Time: 15:07:02

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW14-15

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.007543 cm/sec

y0 = 0.8632 ft

AQUIFER DATA

Saturated Thickness: 10.18 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW14-15)

Initial Displacement: 3.375 ft

Total Well Penetration Depth: 8.38 ft

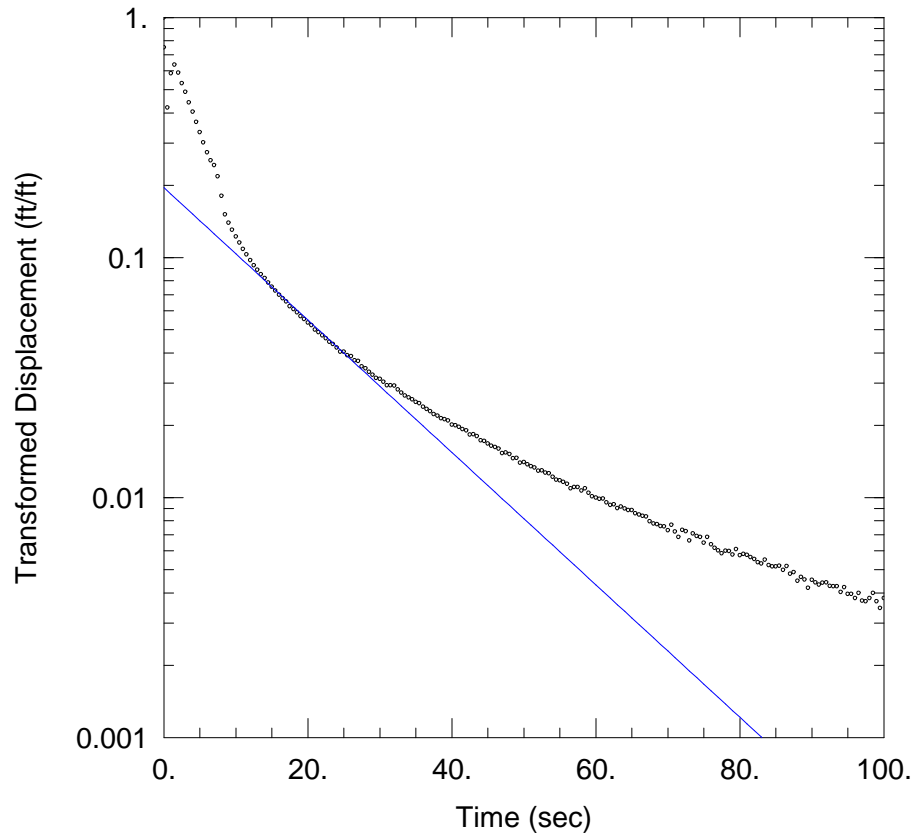
Casing Radius: 0.0835 ft

Static Water Column Height: 8.38 ft

Screen Length: 8.38 ft

Well Radius: 0.25 ft

Gravel Pack Porosity: 0.3



721-MW14-15 RISING HEAD TEST 6

Data Set: N:\...\721-MW14-15-RH6.aqt
 Date: 05/13/13 Time: 15:06:31

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 721-MW14-15
 Test Date: January 25, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Dagan
 $K = 0.007898$ cm/sec
 $y_0 = 0.7873$ ft

AQUIFER DATA

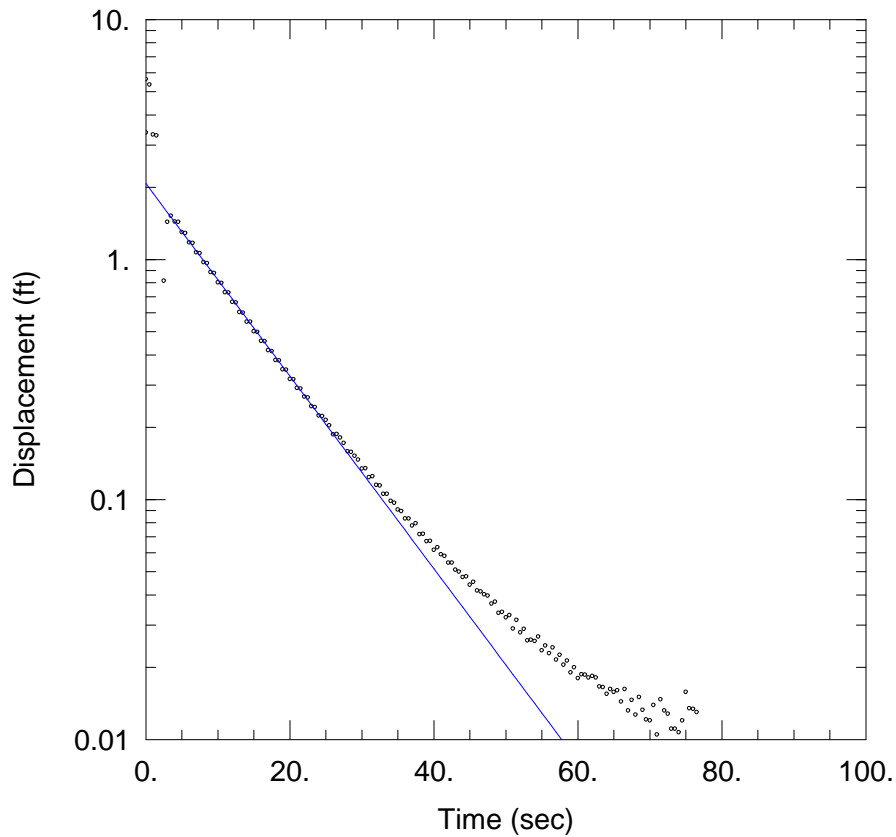
Saturated Thickness: 10.18 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (721-MW14-15)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 8.38 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 8.38 ft
 Screen Length: 8.38 ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.3



721-MW14-25 FALLING HEAD TEST 1

Data Set: N:\...\721-MW14-25-FH1.aqt

Date: 05/09/13

Time: 10:33:30

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW14-25

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.005991 cm/sec

y0 = 2.071 ft

AQUIFER DATA

Saturated Thickness: 8.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW14-25)

Initial Displacement: 3.375 ft

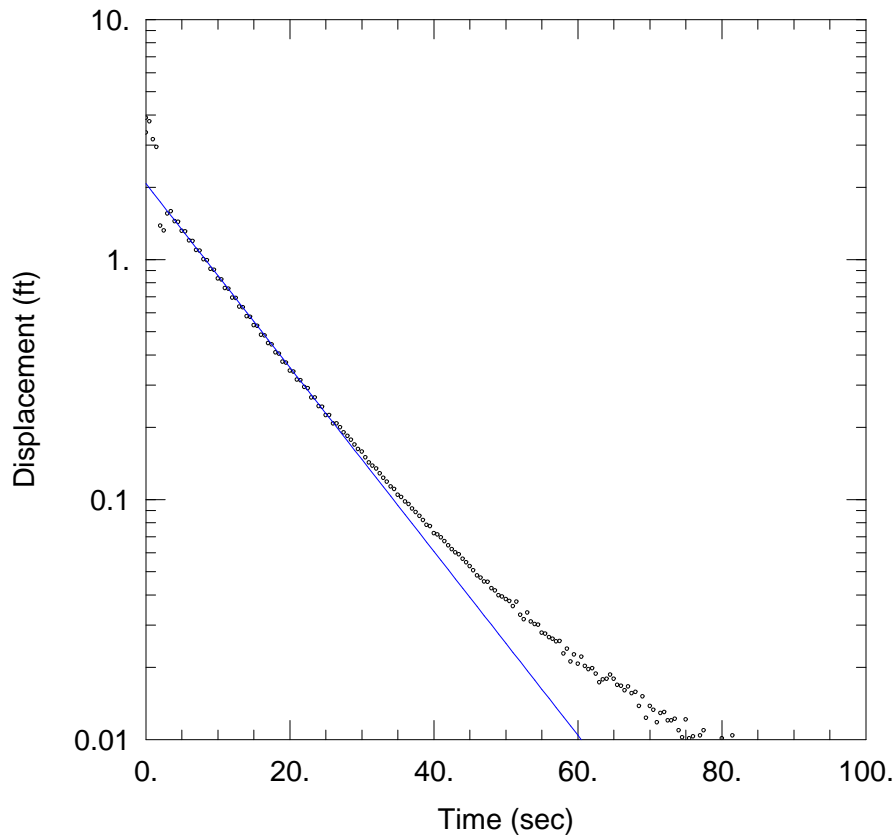
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.23 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW14-25 FALLING HEAD TEST 2

Data Set: N:\...\721-MW14-25-FH2.aqt

Date: 05/09/13

Time: 10:33:17

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW14-25

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.005722 cm/sec

y0 = 2.071 ft

AQUIFER DATA

Saturated Thickness: 8.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW14-25)

Initial Displacement: 3.375 ft

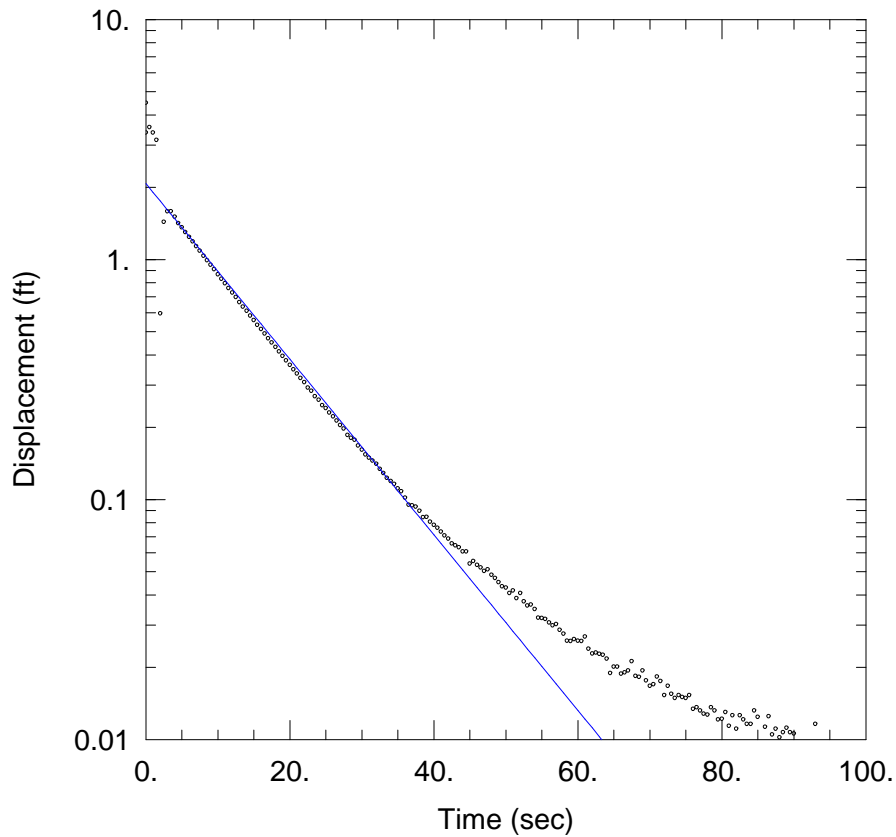
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.23 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW14-25 FALLING HEAD TEST 3

Data Set: N:\...\721-MW14-25-FH3.aqt

Date: 05/09/13

Time: 10:33:05

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW14-25

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.005464$ cm/sec

$y_0 = 2.071$ ft

AQUIFER DATA

Saturated Thickness: 8.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (721-MW14-25)

Initial Displacement: 3.375 ft

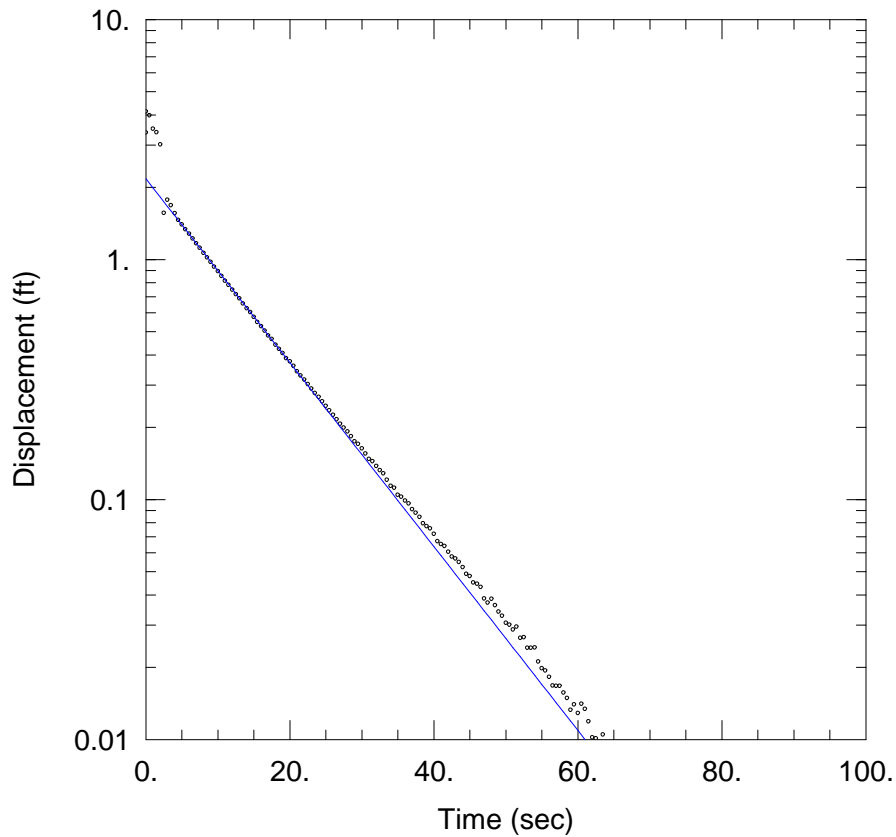
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.23 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW14-25 FALLING HEAD TEST 4

Data Set: N:\...\721-MW14-25-FH4.aqt

Date: 05/09/13

Time: 10:32:52

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW14-25

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.005722 cm/sec

y0 = 2.168 ft

AQUIFER DATA

Saturated Thickness: 8.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW14-25)

Initial Displacement: 3.375 ft

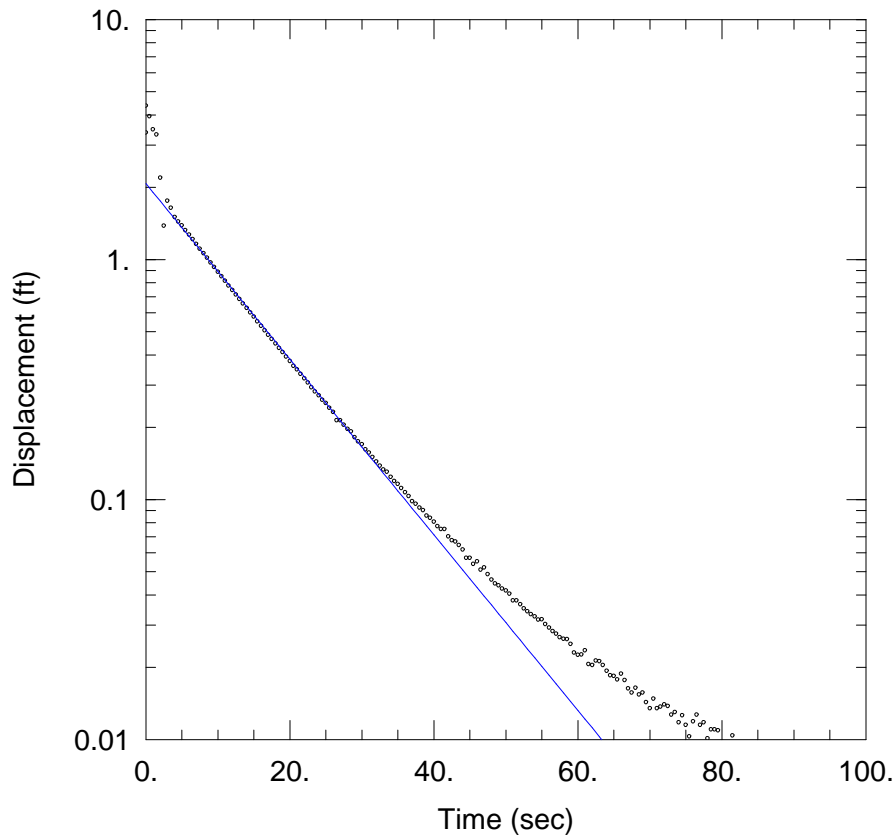
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.23 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW14-25 FALLING HEAD TEST 5

Data Set: N:\...\721-MW14-25-FH5.aqt

Date: 05/09/13

Time: 10:32:39

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW14-25

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.005464$ cm/sec

$y_0 = 2.071$ ft

AQUIFER DATA

Saturated Thickness: 8.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (721-MW14-25)

Initial Displacement: 3.375 ft

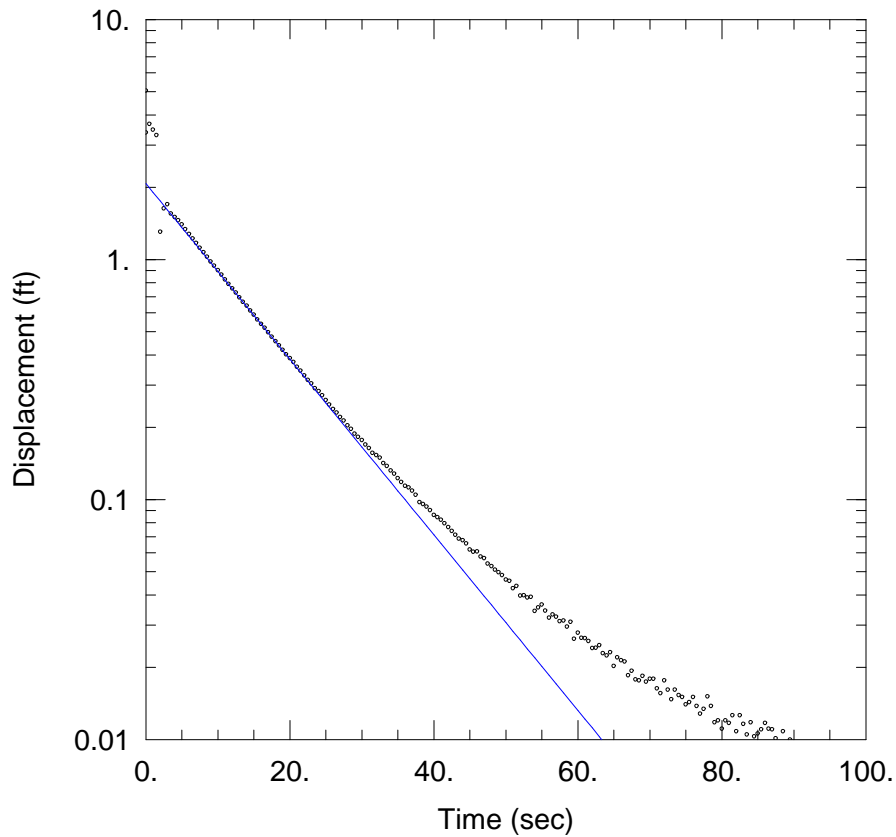
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.23 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW14-25 FALLING HEAD TEST 5

Data Set: N:\...\721-MW14-25-FH6.aqt

Date: 05/09/13

Time: 10:32:26

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW14-25

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.005464 cm/sec

y0 = 2.071 ft

AQUIFER DATA

Saturated Thickness: 8.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW14-25)

Initial Displacement: 3.375 ft

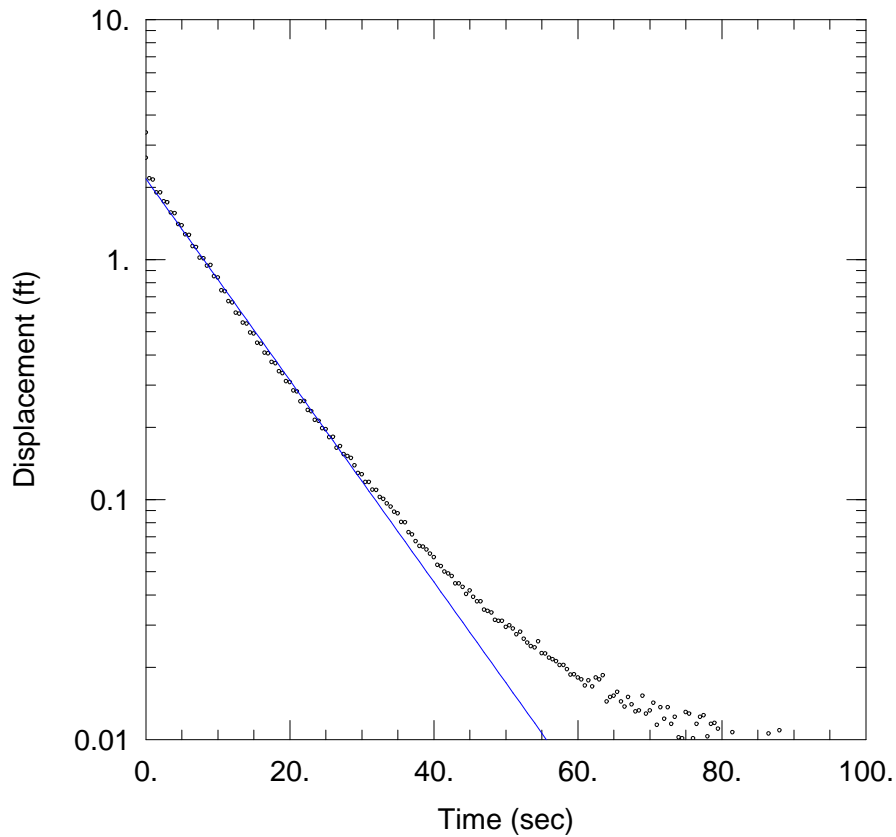
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.23 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW14-25 RISING HEAD TEST 1

Data Set: N:\...\721-MW14-25-RH1.aqt

Date: 05/09/13

Time: 10:38:10

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW14-25

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.006274 cm/sec

y0 = 2.168 ft

AQUIFER DATA

Saturated Thickness: 8.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW14-25)

Initial Displacement: 3.375 ft

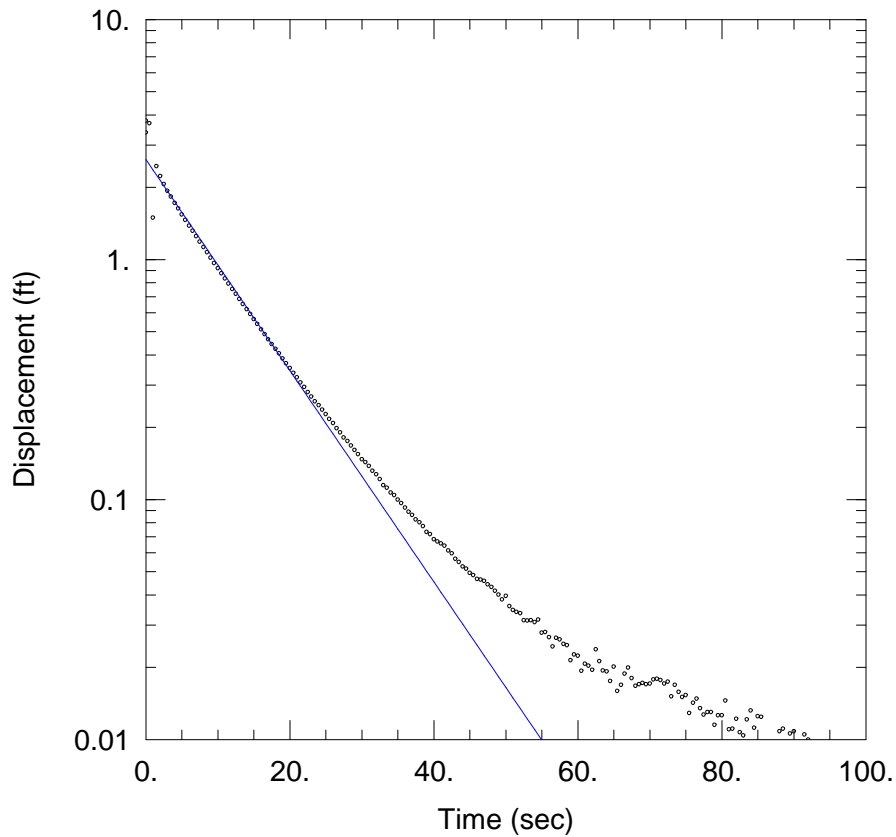
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.23 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW14-25 RISING HEAD TEST 2

Data Set: N:\...\721-MW14-25-RH2.aqt

Date: 05/09/13

Time: 10:37:56

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW14-25

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.006569 cm/sec

y0 = 2.607 ft

AQUIFER DATA

Saturated Thickness: 8.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW14-25)

Initial Displacement: 3.375 ft

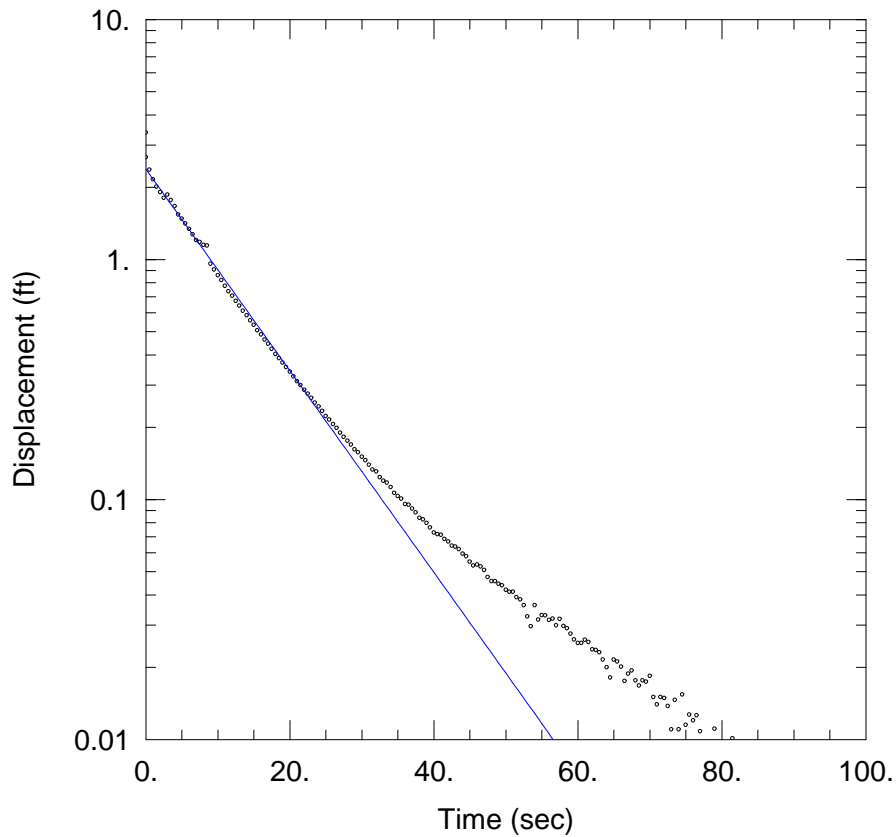
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.23 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW14-25 RISING HEAD TEST 3

Data Set: N:\...\721-MW14-25-RH3.aqt

Date: 05/09/13

Time: 10:37:42

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW14-25

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.006274 cm/sec

y0 = 2.378 ft

AQUIFER DATA

Saturated Thickness: 8.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW14-25)

Initial Displacement: 3.375 ft

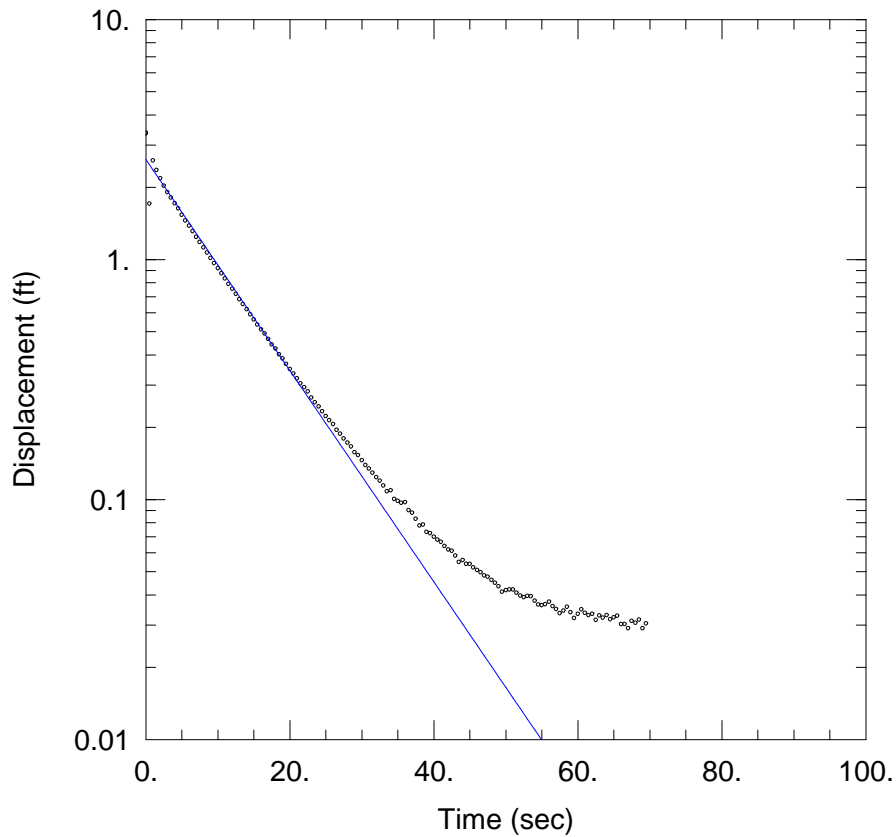
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.23 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW14-25 RISING HEAD TEST 4

Data Set: N:\...\721-MW14-25-RH4.aqt

Date: 05/09/13

Time: 10:37:29

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW14-25

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.006569 cm/sec

y0 = 2.607 ft

AQUIFER DATA

Saturated Thickness: 8.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW14-25)

Initial Displacement: 3.375 ft

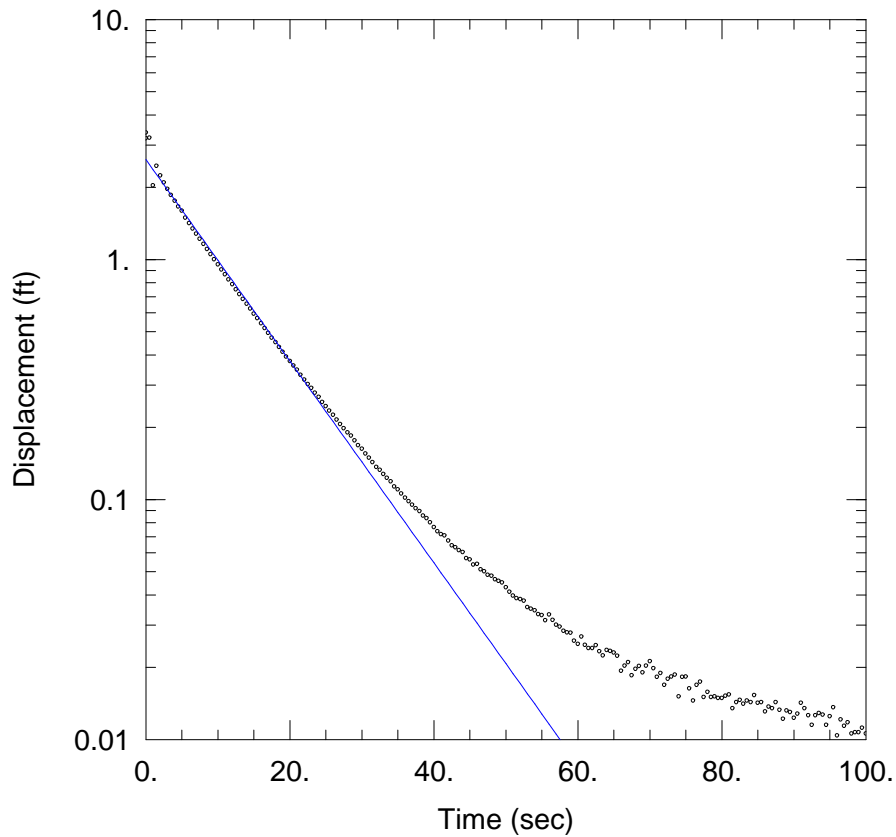
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.23 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW14-25 RISING HEAD TEST 5

Data Set: N:\...\721-MW14-25-RH5.aqt

Date: 05/09/13

Time: 10:37:16

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW14-25

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.006274$ cm/sec

$y_0 = 2.607$ ft

AQUIFER DATA

Saturated Thickness: 8.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (721-MW14-25)

Initial Displacement: 3.375 ft

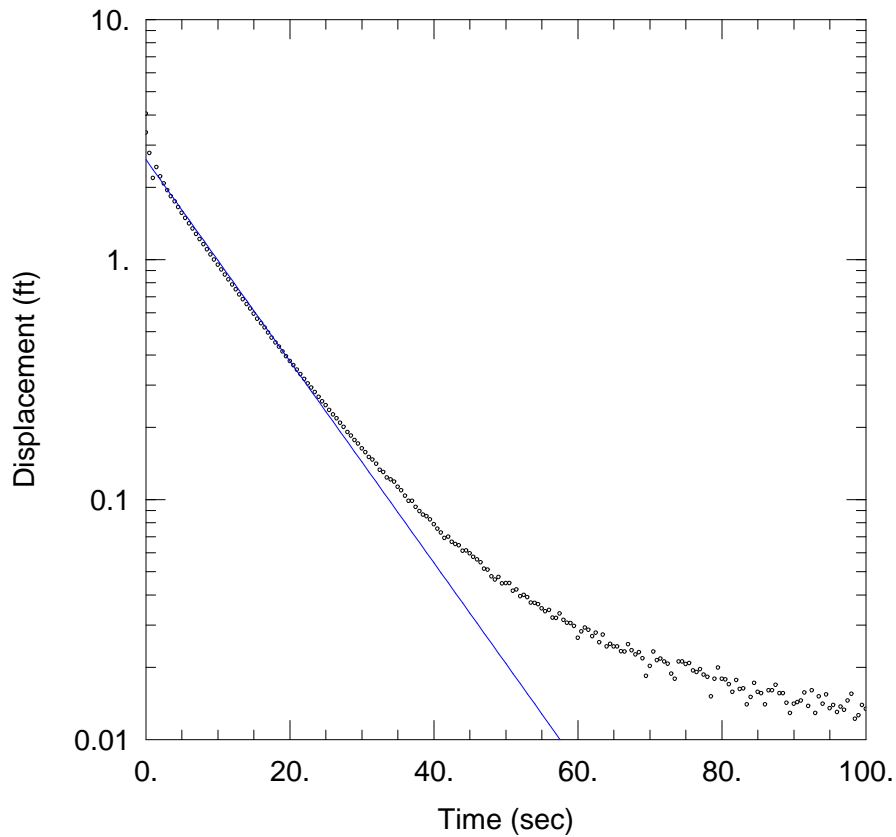
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.23 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW14-25 RISING HEAD TEST 6

Data Set: N:\...\721-MW14-25-RH6.aqt

Date: 05/09/13

Time: 10:37:02

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW14-25

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.006274$ cm/sec

$y_0 = 2.607$ ft

AQUIFER DATA

Saturated Thickness: 8.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (721-MW14-25)

Initial Displacement: 3.375 ft

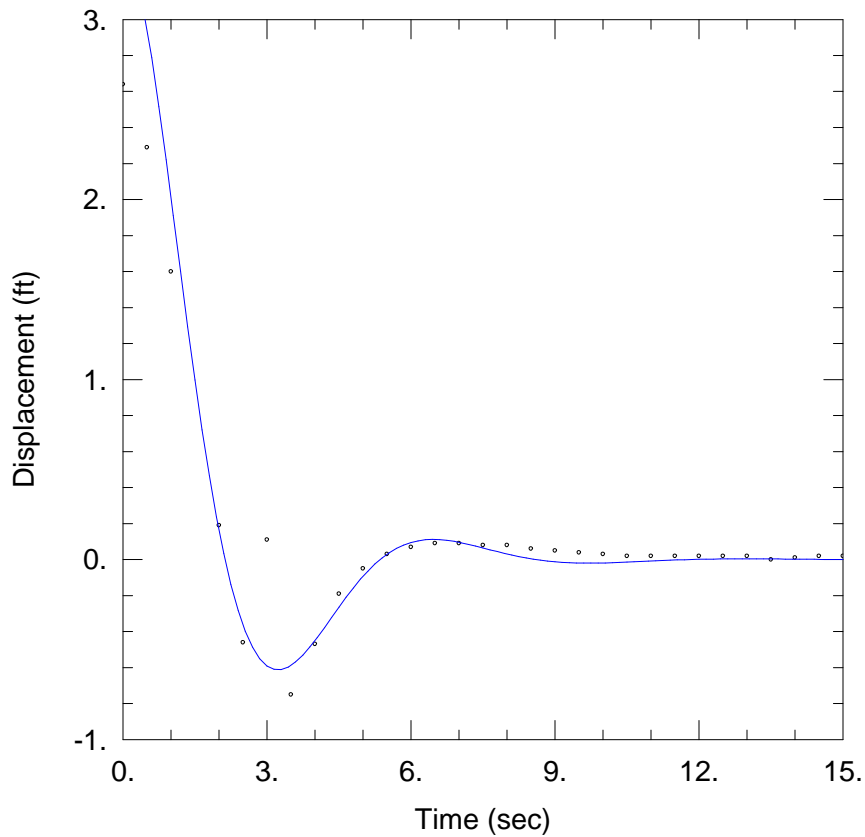
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.23 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW14-50 FALLING HEAD TEST 1

Data Set: N:\...\721-MW14-50-FH1.aqt

Date: 05/10/13

Time: 14:42:59

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW14-50

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Butler

K = 0.1041 cm/sec

Le = 26.3 ft

AQUIFER DATA

Saturated Thickness: 10.3 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW14-50)

Initial Displacement: 3.375 ft

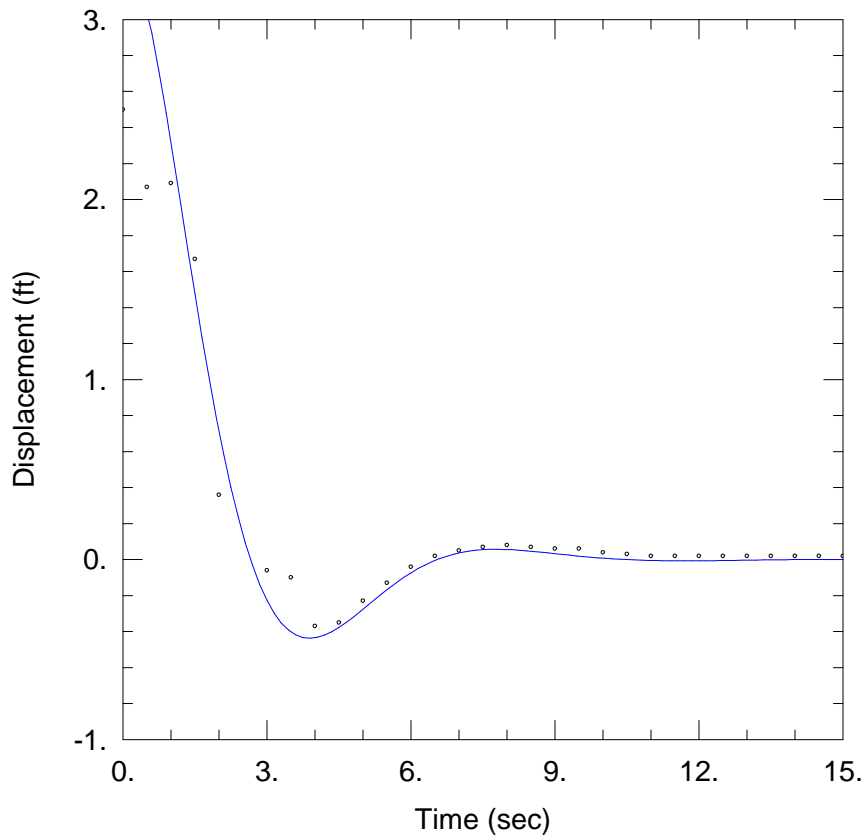
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.28 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW14-50 FALLING HEAD TEST 2

Data Set: N:\...\721-MW14-50-FH2.aqt

Date: 05/10/13

Time: 14:42:47

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW14-50

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Butler

K = 0.07898 cm/sec

Le = 34.67 ft

AQUIFER DATA

Saturated Thickness: 10.3 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW14-50)

Initial Displacement: 3.375 ft

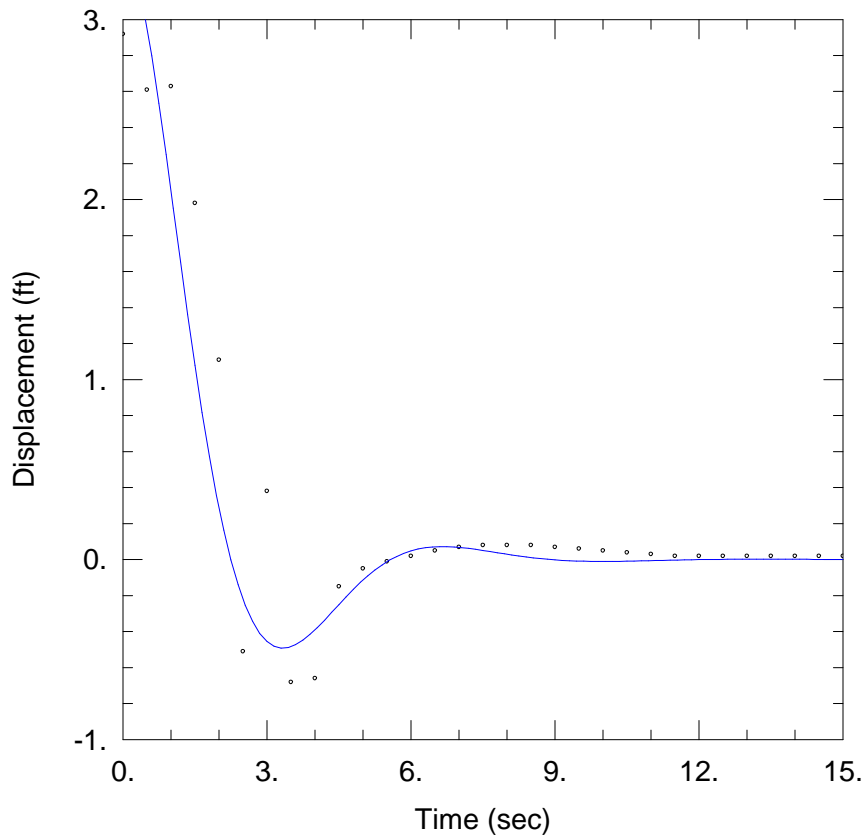
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.28 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW14-50 FALLING HEAD TEST 3

Data Set: N:\...\721-MW14-50-FH3.aqt

Date: 05/10/13

Time: 14:42:34

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW14-50

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Butler

K = 0.09496 cm/sec

Le = 26.3 ft

AQUIFER DATA

Saturated Thickness: 10.3 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW14-50)

Initial Displacement: 3.375 ft

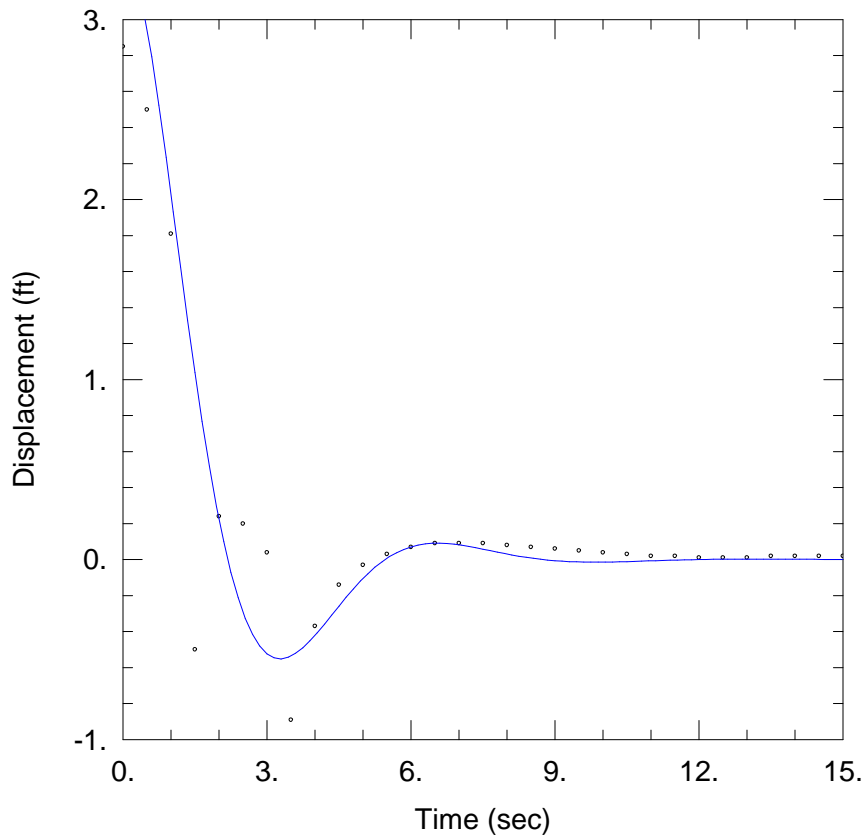
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.28 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW14-50 FALLING HEAD TEST 4

Data Set: N:\...\721-MW14-50-FH4.aqt

Date: 05/10/13

Time: 14:42:22

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW14-50

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Butler

K = 0.09943 cm/sec

Le = 26.3 ft

AQUIFER DATA

Saturated Thickness: 10.3 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW14-50)

Initial Displacement: 3.375 ft

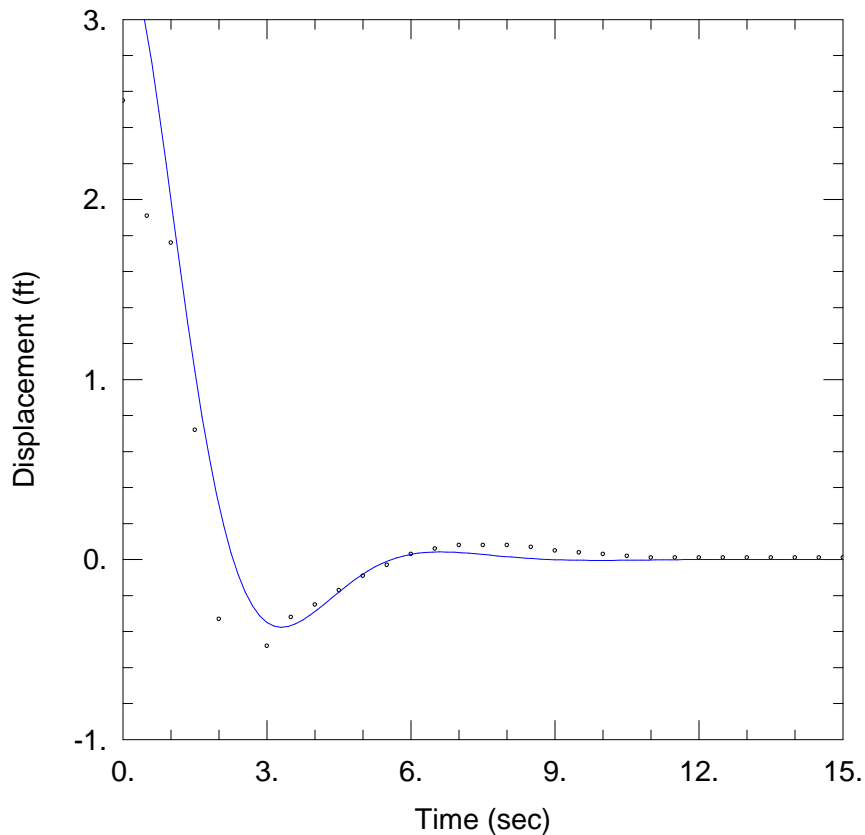
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.28 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW14-50 FALLING HEAD TEST 5

Data Set: N:\...\721-MW14-50-FH5.aqt

Date: 05/10/13

Time: 14:42:11

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW14-50

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Butler

K = 0.09068 cm/sec

Le = 23.99 ft

AQUIFER DATA

Saturated Thickness: 10.3 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW14-50)

Initial Displacement: 3.375 ft

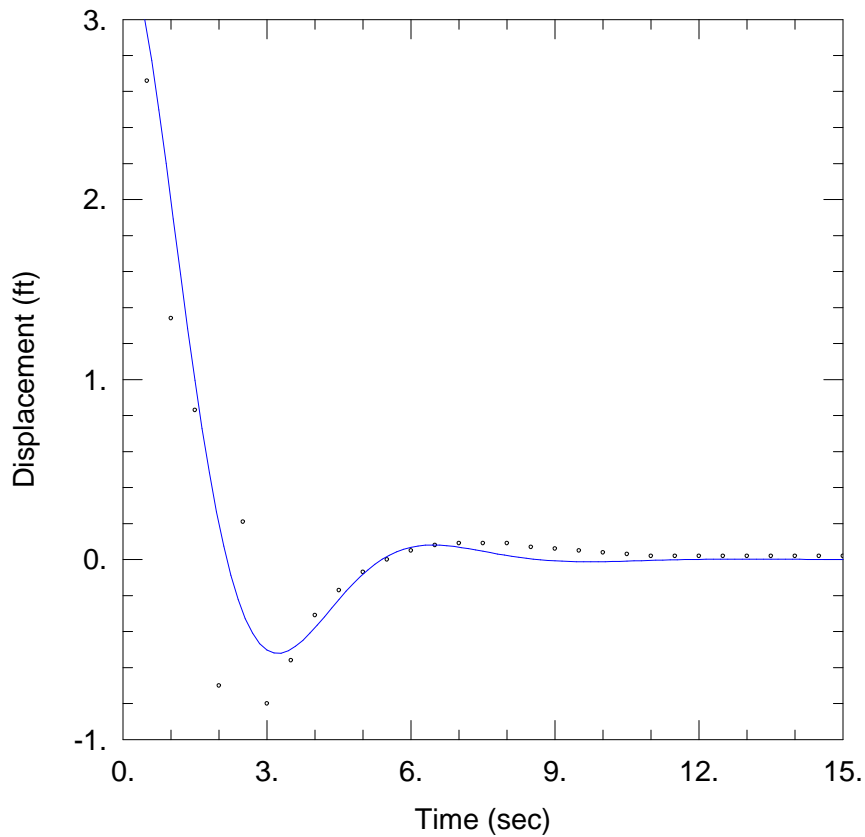
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.28 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW14-50 FALLING HEAD TEST 6

Data Set: N:\...\721-MW14-50-FH6.aqt

Date: 05/10/13

Time: 14:41:58

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW14-50

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Butler

K = 0.09943 cm/sec

Le = 25.12 ft

AQUIFER DATA

Saturated Thickness: 10.3 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW14-50)

Initial Displacement: 3.375 ft

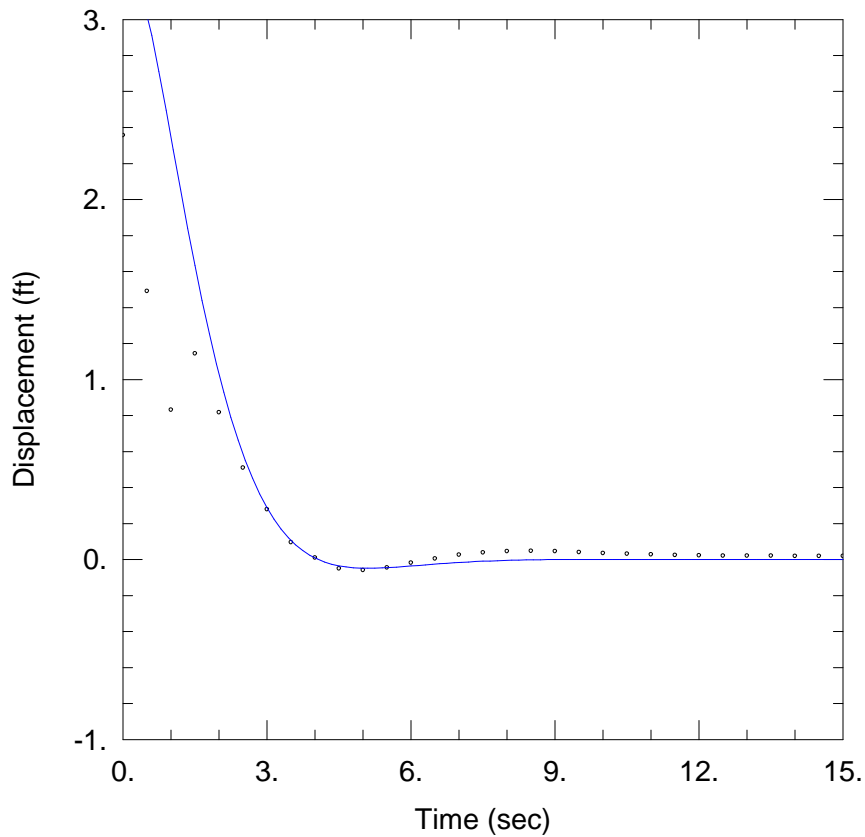
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.28 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW14-50 RISING HEAD TEST 1

Data Set: N:\...\721-MW14-50-RH1.aqt

Date: 05/10/13

Time: 14:50:05

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW14-50

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Butler

K = 0.05722 cm/sec

Le = 30.2 ft

AQUIFER DATA

Saturated Thickness: 10.3 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW14-50)

Initial Displacement: 3.375 ft

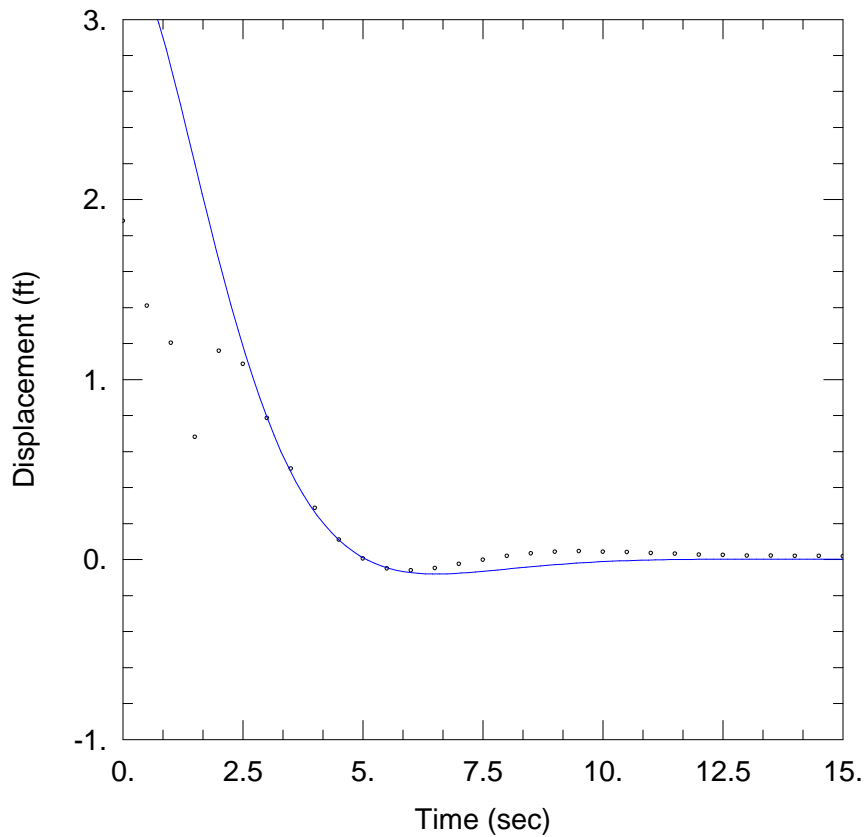
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.28 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW14-50 RISING HEAD TEST 2

Data Set: N:\...\721-MW14-50-RH2.aqt

Date: 05/10/13

Time: 14:49:51

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW14-50

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Butler

K = 0.0434 cm/sec

Le = 57.54 ft

AQUIFER DATA

Saturated Thickness: 10.3 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW14-50)

Initial Displacement: 3.375 ft

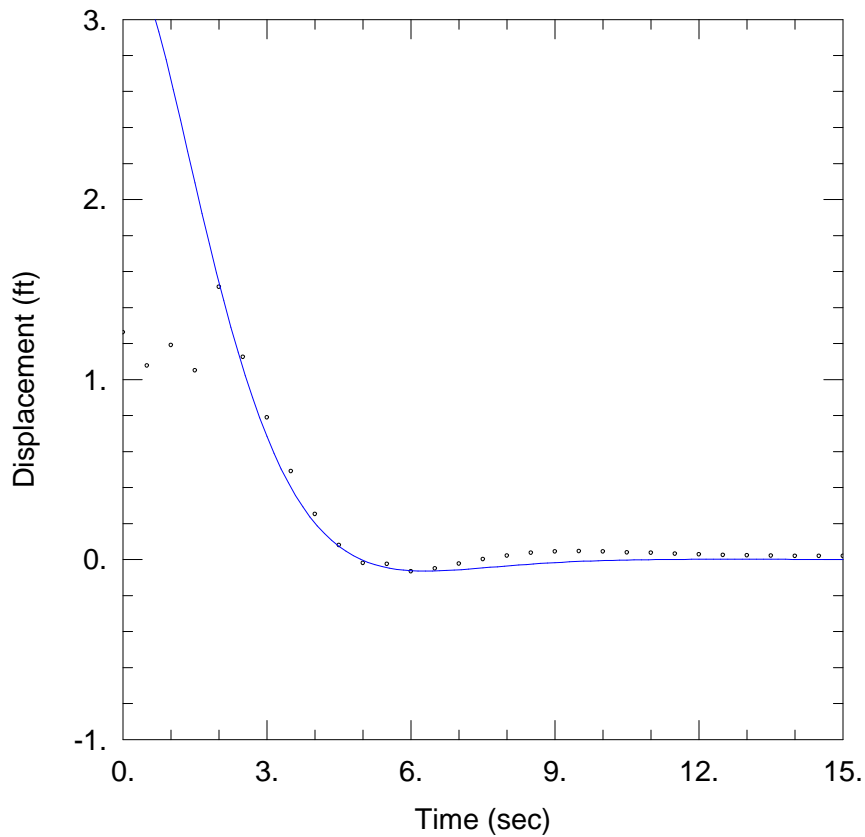
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.28 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW14-50 RISING HEAD TEST 3

Data Set: N:\...\721-MW14-50-RH3.aqt

Date: 05/10/13

Time: 14:49:40

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW14-50

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Butler

K = 0.04545 cm/sec

Le = 50.12 ft

AQUIFER DATA

Saturated Thickness: 10.3 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW14-50)

Initial Displacement: 3.375 ft

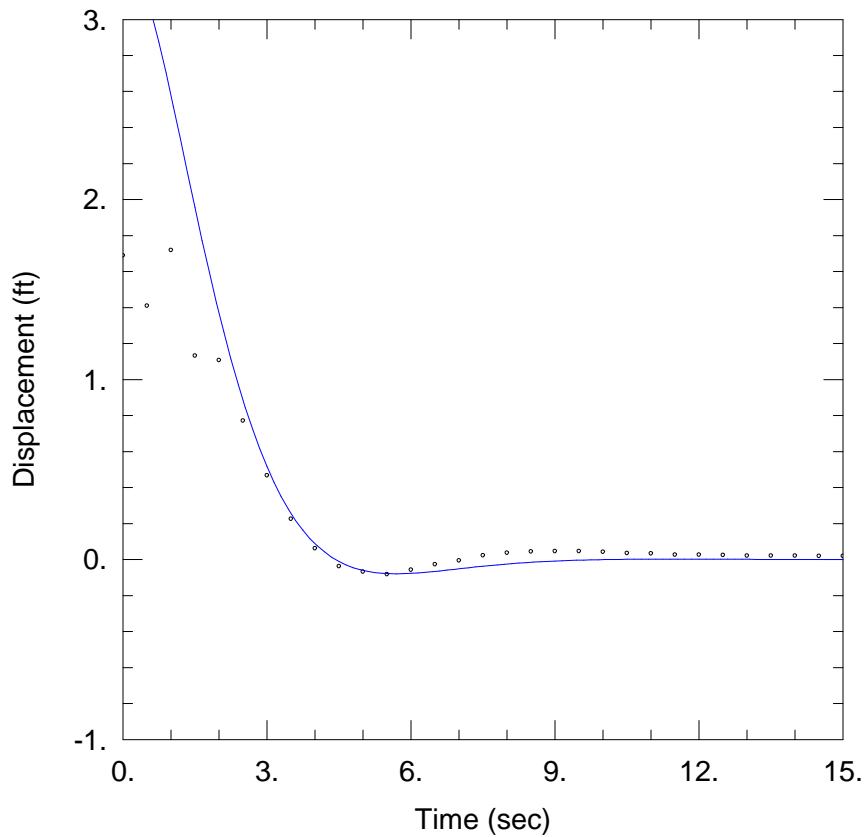
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.28 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW14-50 RISING HEAD TEST 4

Data Set: N:\...\721-MW14-50-RH4.aqt

Date: 05/10/13

Time: 14:49:28

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW14-50

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Butler

K = 0.04983 cm/sec

Le = 43.65 ft

AQUIFER DATA

Saturated Thickness: 10.3 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW14-50)

Initial Displacement: 3.375 ft

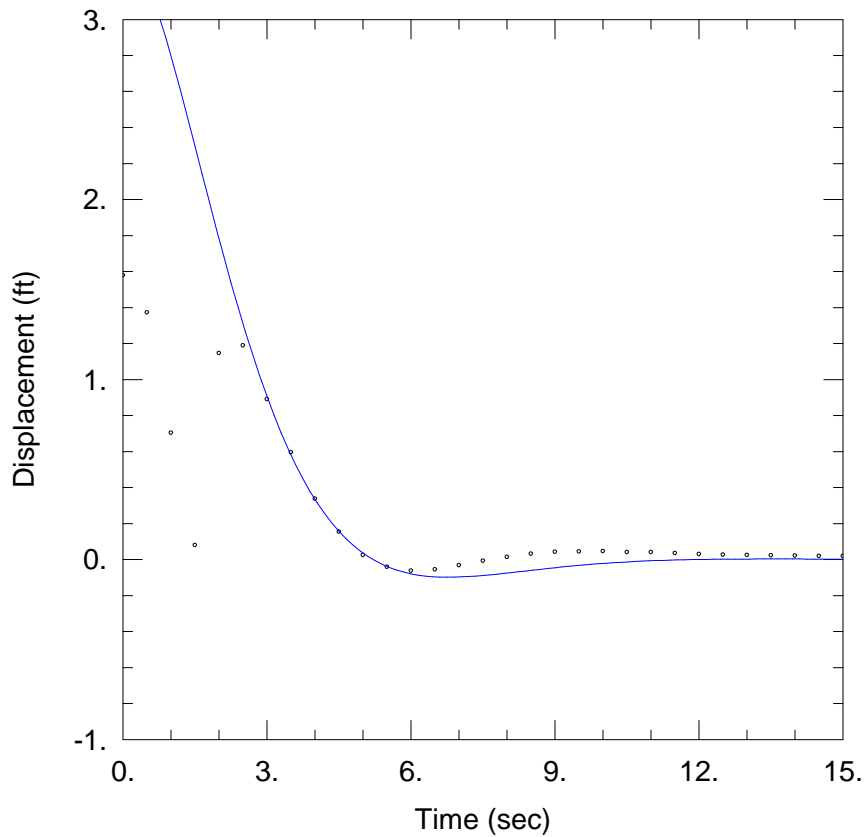
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.28 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW14-50 RISING HEAD TEST 5

Data Set: N:\...\721-MW14-50-RH5.aqt

Date: 05/10/13

Time: 14:49:17

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW14-50

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Butler

K = 0.04145 cm/sec

Le = 66.07 ft

AQUIFER DATA

Saturated Thickness: 10.3 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW14-50)

Initial Displacement: 3.375 ft

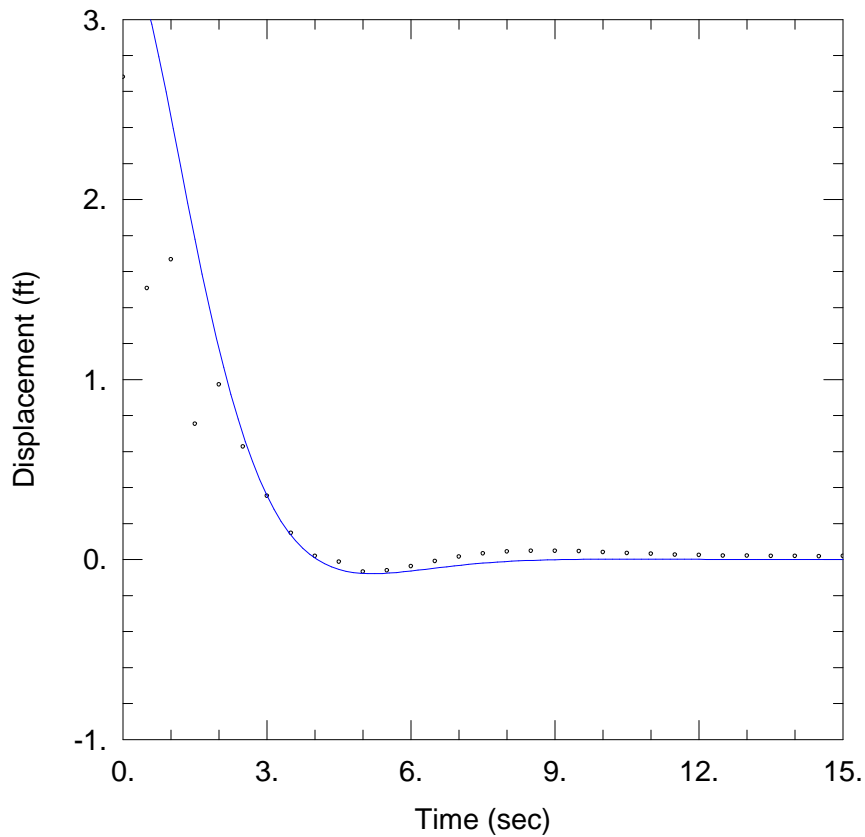
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.28 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW14-50 RISING HEAD TEST 6

Data Set: N:\...\721-MW14-50-RH6.aqt

Date: 05/10/13

Time: 14:49:04

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW14-50

Test Date: January 25, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Butler

K = 0.05464 cm/sec

Le = 36.31 ft

AQUIFER DATA

Saturated Thickness: 10.3 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW14-50)

Initial Displacement: 3.375 ft

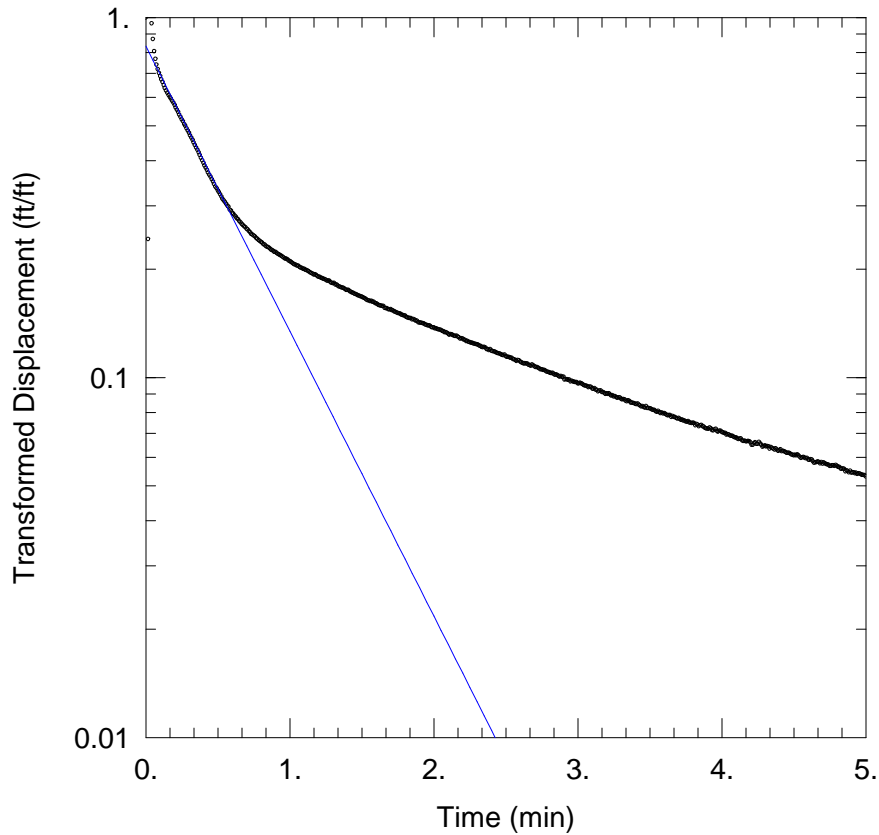
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.28 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW15-15 RISING HEAD TEST 1

Data Set: N:\...\721-MW15-15-RH1.aqt

Date: 05/13/13

Time: 11:59:24

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15-15

Test Date: February 24, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.004163 cm/sec

y0 = 1.433 ft

AQUIFER DATA

Saturated Thickness: 9.25 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW15-15)

Initial Displacement: 1.688 ft

Total Well Penetration Depth: 7.15 ft

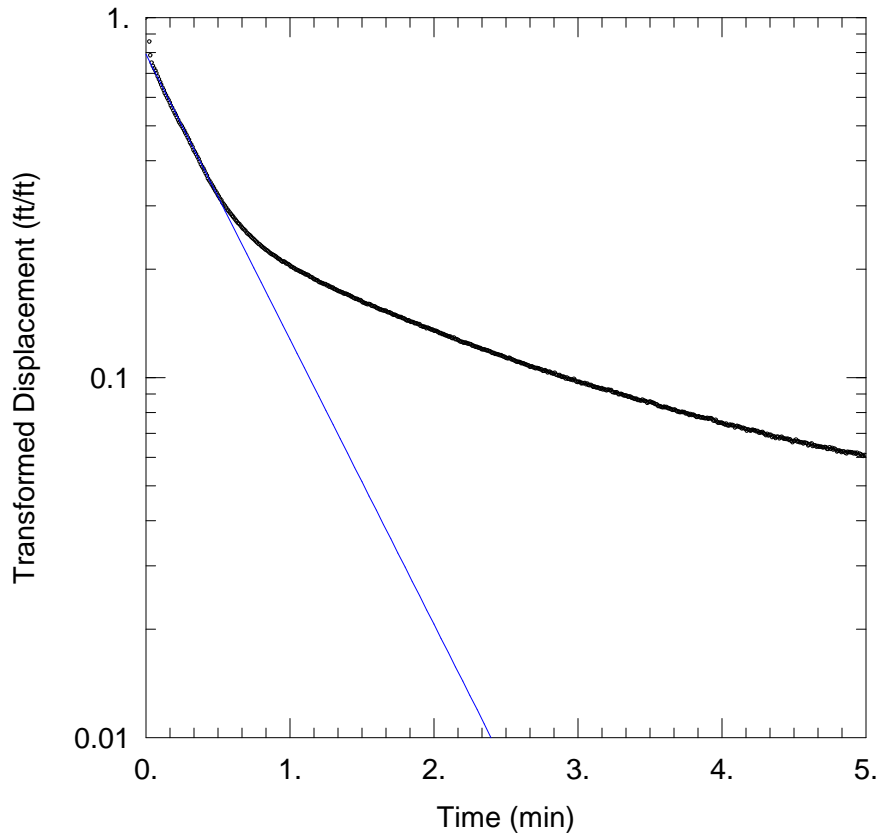
Casing Radius: 0.0835 ft

Static Water Column Height: 7.15 ft

Screen Length: 7.15 ft

Well Radius: 0.25 ft

Gravel Pack Porosity: 0.3



721-MW15-15 RISING HEAD TEST 2

Data Set: N:\...\721-MW15-15-RH2.aqt

Date: 05/13/13

Time: 11:59:11

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15-15

Test Date: February 24, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.004163 cm/sec

y0 = 1.368 ft

AQUIFER DATA

Saturated Thickness: 9.25 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW15-15)

Initial Displacement: 1.688 ft

Total Well Penetration Depth: 7.15 ft

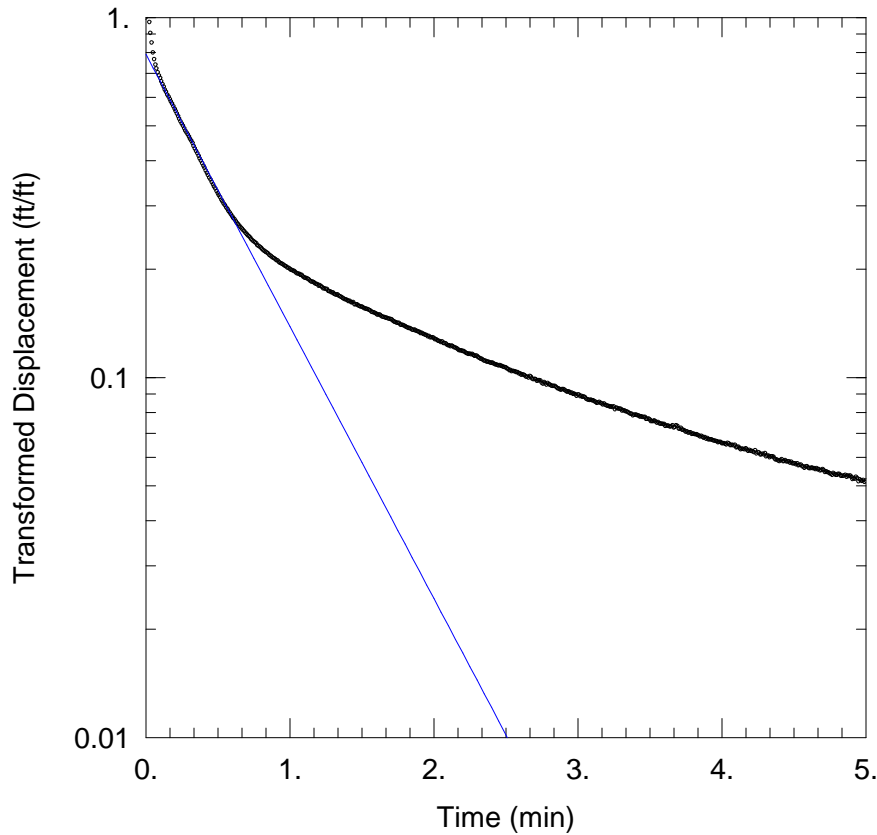
Casing Radius: 0.0835 ft

Static Water Column Height: 7.15 ft

Screen Length: 7.15 ft

Well Radius: 0.25 ft

Gravel Pack Porosity: 0.3



721-MW15-15 RISING HEAD TEST 3

Data Set: N:\...\721-MW15-15-RH3.aqt

Date: 05/13/13

Time: 11:59:00

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15-15

Test Date: February 24, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.003975 cm/sec

y0 = 1.368 ft

AQUIFER DATA

Saturated Thickness: 9.25 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW15-15)

Initial Displacement: 1.688 ft

Total Well Penetration Depth: 7.15 ft

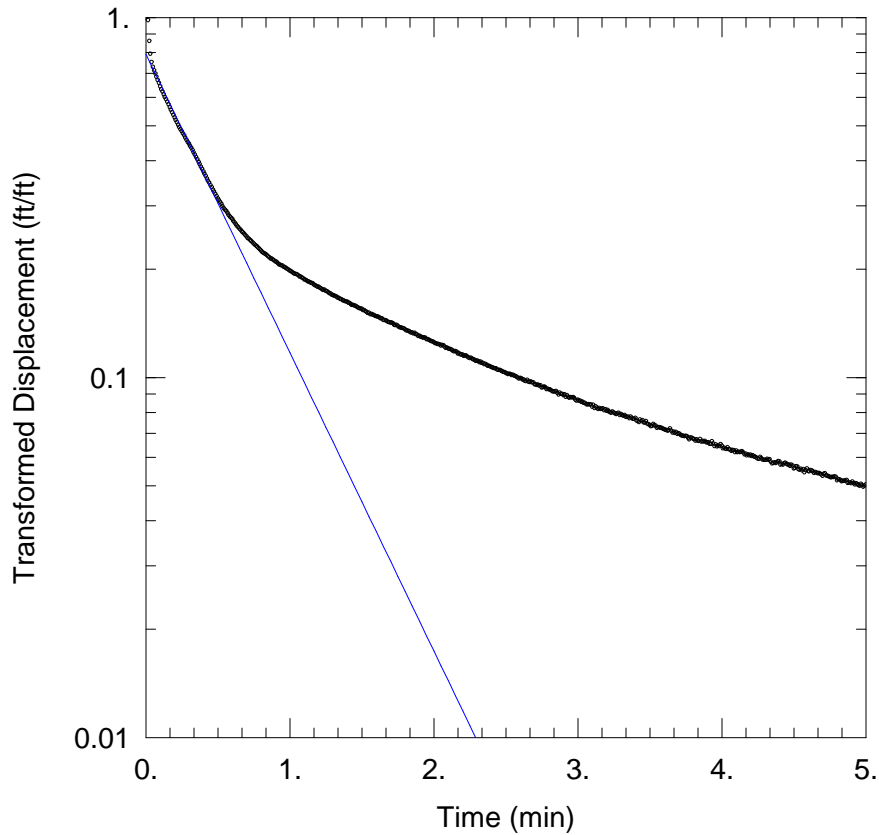
Casing Radius: 0.0835 ft

Static Water Column Height: 7.15 ft

Screen Length: 7.15 ft

Well Radius: 0.25 ft

Gravel Pack Porosity: 0.3



721-MW15-15 RISING HEAD TEST 4

Data Set: N:\...\721-MW15-15-RH4.aqt

Date: 05/13/13

Time: 11:58:48

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15-15

Test Date: February 24, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.004359 cm/sec

y0 = 1.368 ft

AQUIFER DATA

Saturated Thickness: 9.25 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW15-15)

Initial Displacement: 1.688 ft

Total Well Penetration Depth: 7.15 ft

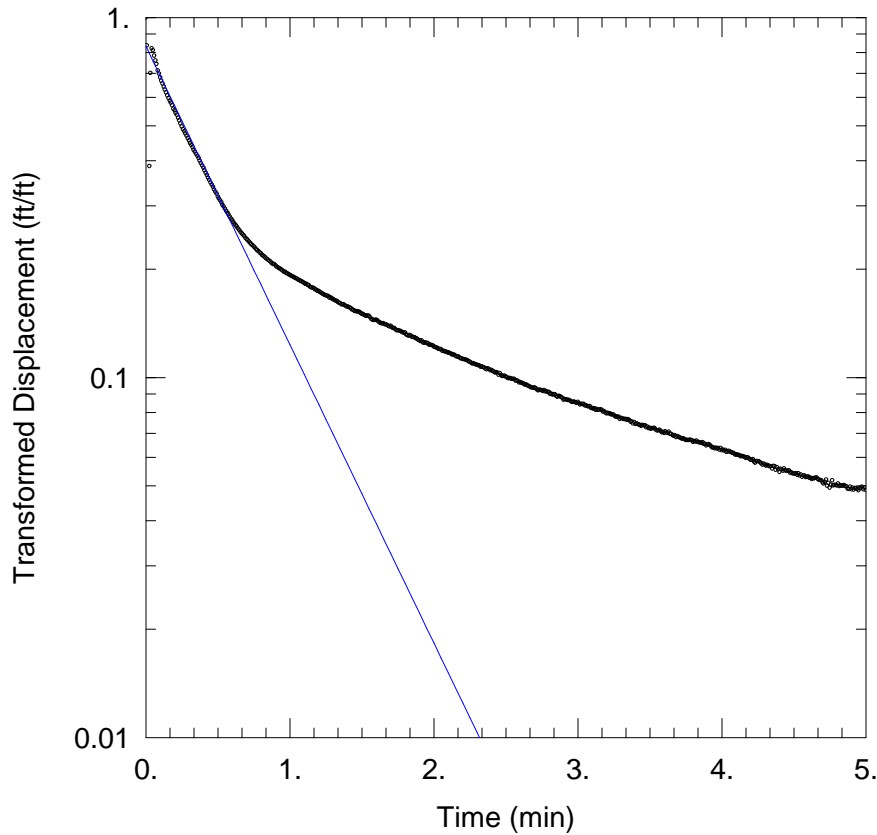
Casing Radius: 0.0835 ft

Static Water Column Height: 7.15 ft

Screen Length: 7.15 ft

Well Radius: 0.25 ft

Gravel Pack Porosity: 0.3



721-MW15-15 RISING HEAD TEST 5

Data Set: N:\...\721-MW15-15-RH5.aqt

Date: 05/13/13

Time: 13:55:58

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15-15

Test Date: February 24, 2013

SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

K = 0.004359 cm/sec

y0 = 1.433 ft

AQUIFER DATA

Saturated Thickness: 9.25 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW15-15)

Initial Displacement: 1.688 ft

Total Well Penetration Depth: 7.15 ft

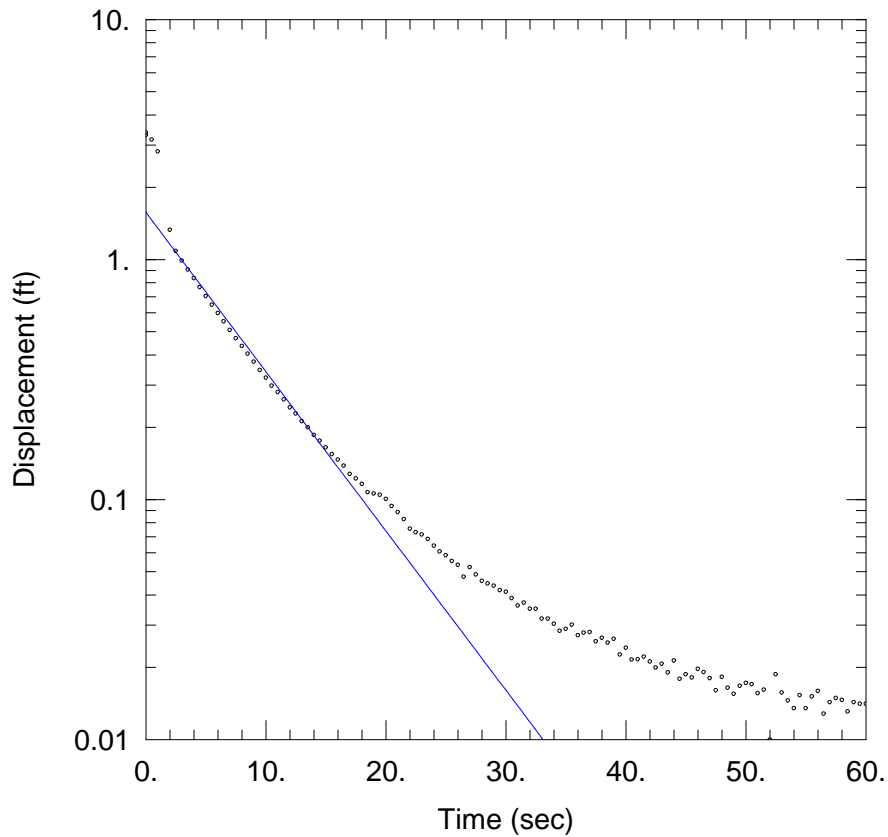
Casing Radius: 0.0835 ft

Static Water Column Height: 7.15 ft

Screen Length: 7.15 ft

Well Radius: 0.25 ft

Gravel Pack Porosity: 0.3



721-MW15-25 FALLING HEAD TEST 1

Data Set: N:\...\721-MW15-25-FH1.aqt

Date: 05/10/13

Time: 15:09:59

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15-25

Test Date: January 24, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.009943 cm/sec

y0 = 1.571 ft

AQUIFER DATA

Saturated Thickness: 8.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW15-25)

Initial Displacement: 3.375 ft

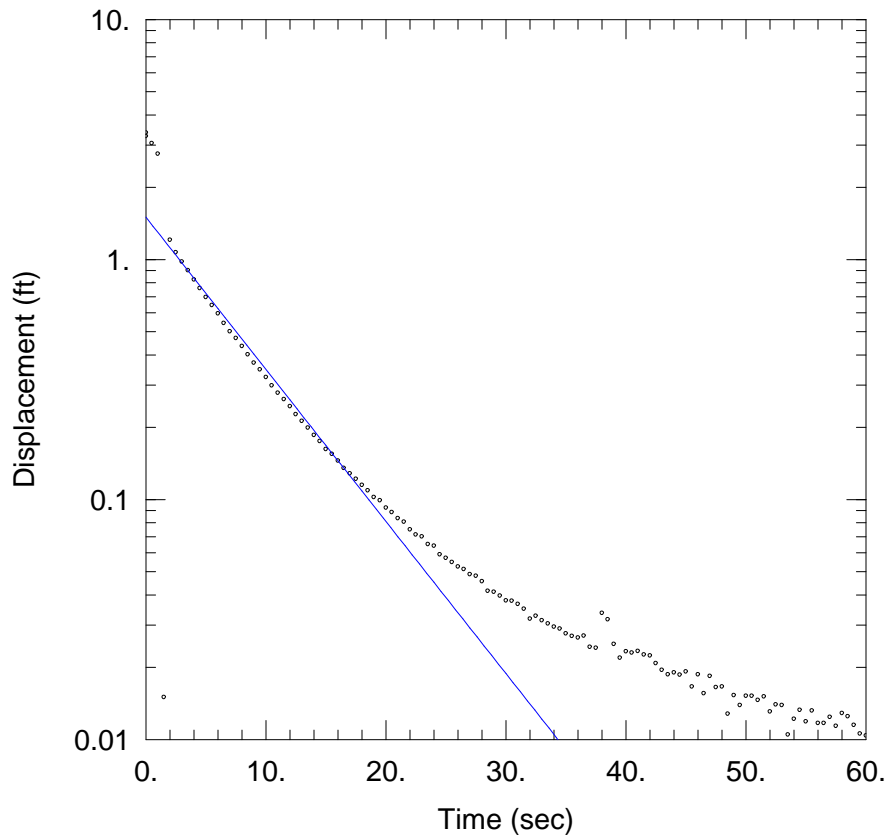
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.48 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW15-25 FALLING HEAD TEST 2

Data Set: N:\...\721-MW15-25-FH2.aqt

Date: 05/10/13

Time: 15:09:47

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15-25

Test Date: January 24, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.009496$ cm/sec

$y_0 = 1.5$ ft

AQUIFER DATA

Saturated Thickness: 8.6 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (721-MW15-25)

Initial Displacement: 3.375 ft

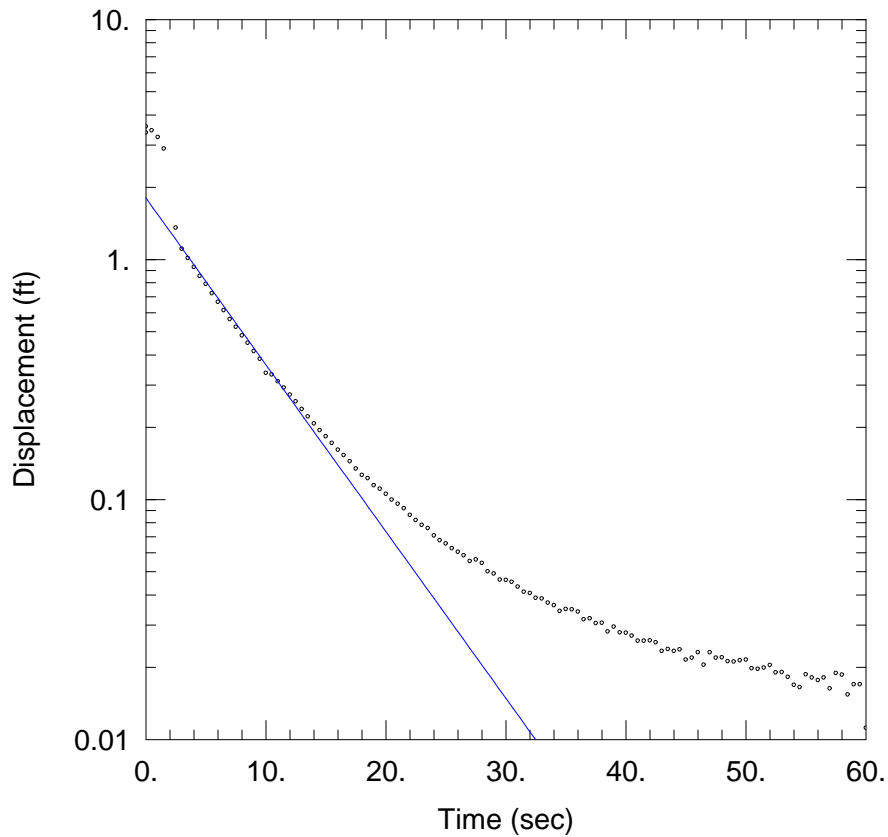
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.48 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW15-25 FALLING HEAD TEST 3

Data Set: N:\...\721-MW15-25-FH3.aqt

Date: 05/10/13

Time: 15:09:29

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15-25

Test Date: January 24, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01041 cm/sec

y0 = 1.804 ft

AQUIFER DATA

Saturated Thickness: 8.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW15-25)

Initial Displacement: 3.375 ft

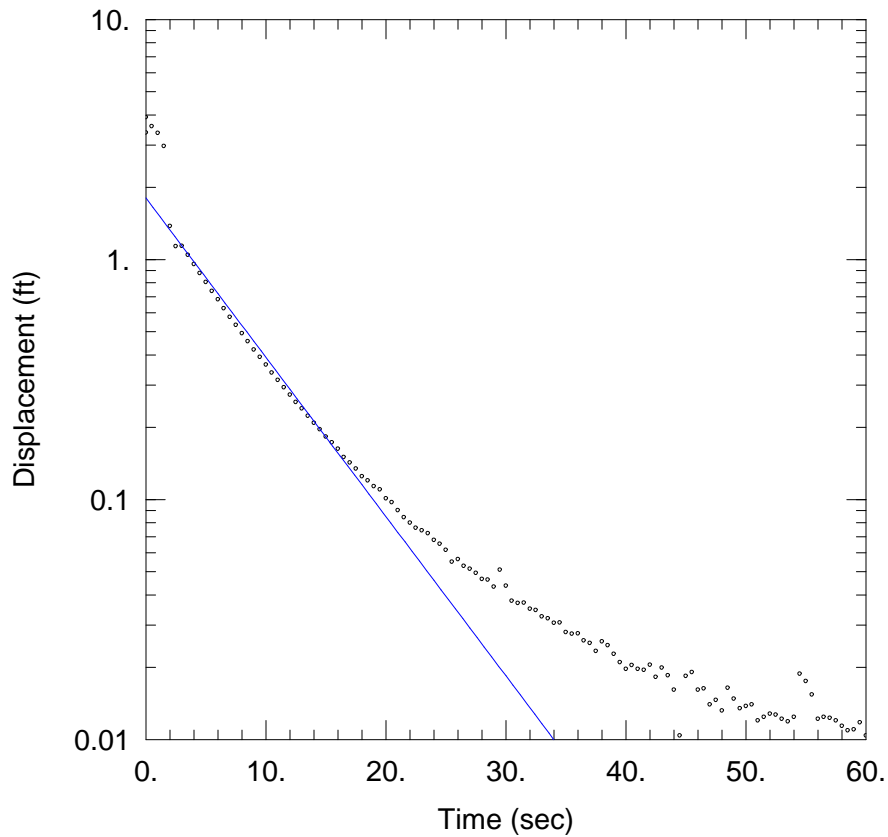
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.48 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW15-25 FALLING HEAD TEST 4

Data Set: N:\...\721-MW15-25-FH4.aqt

Date: 05/10/13

Time: 15:09:06

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15-25

Test Date: January 24, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.009943 cm/sec

y0 = 1.804 ft

AQUIFER DATA

Saturated Thickness: 8.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW15-25)

Initial Displacement: 3.375 ft

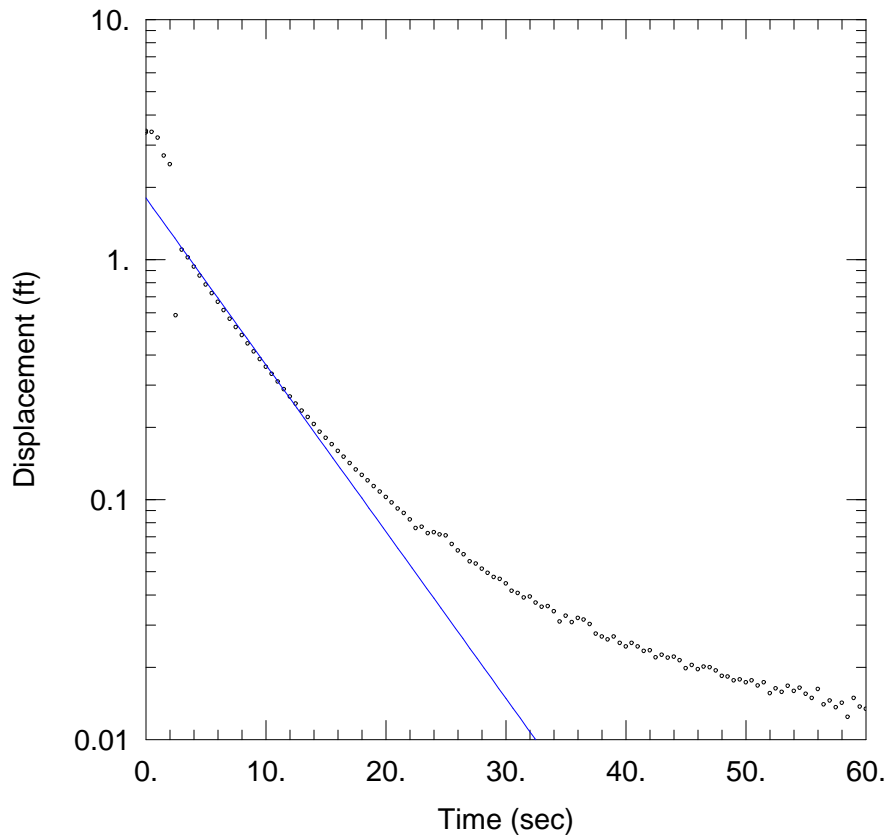
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.48 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW15-25 FALLING HEAD TEST 5

Data Set: N:\...\721-MW15-25-FH5.aqt

Date: 05/10/13

Time: 15:08:53

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15-25

Test Date: January 24, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01041 cm/sec

y0 = 1.804 ft

AQUIFER DATA

Saturated Thickness: 8.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW15-25)

Initial Displacement: 3.375 ft

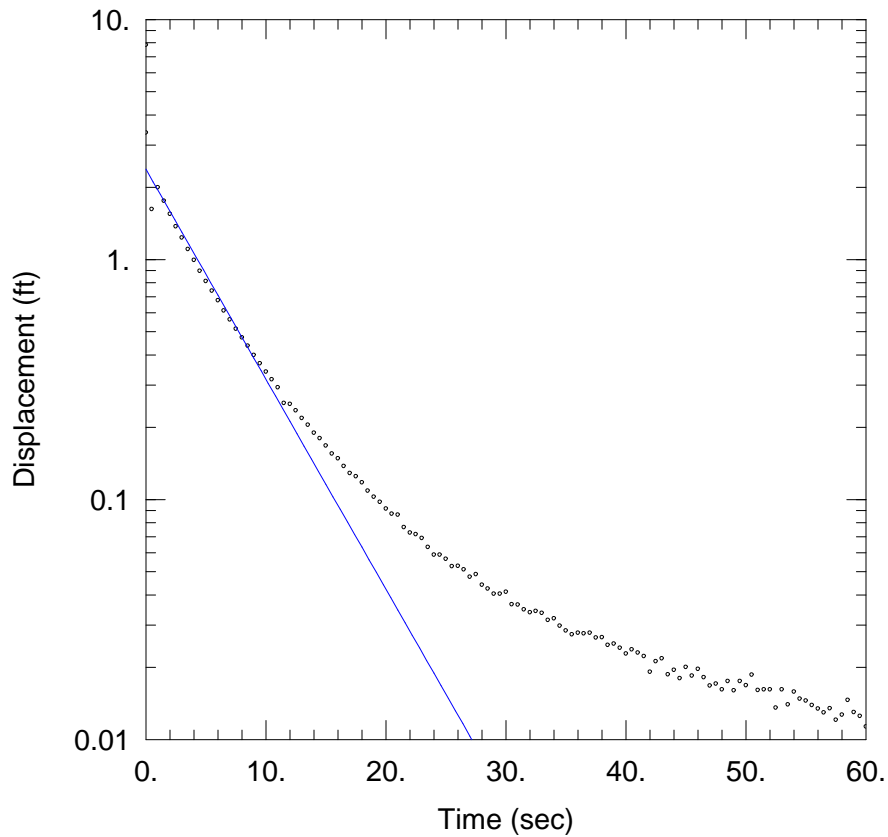
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.48 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW15-25 RISING HEAD TEST 1

Data Set: N:\...\721-MW15-25-RH1.aqt

Date: 05/10/13

Time: 15:13:04

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15-25

Test Date: January 24, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01311 cm/sec

y0 = 2.378 ft

AQUIFER DATA

Saturated Thickness: 8.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW15-25)

Initial Displacement: 3.375 ft

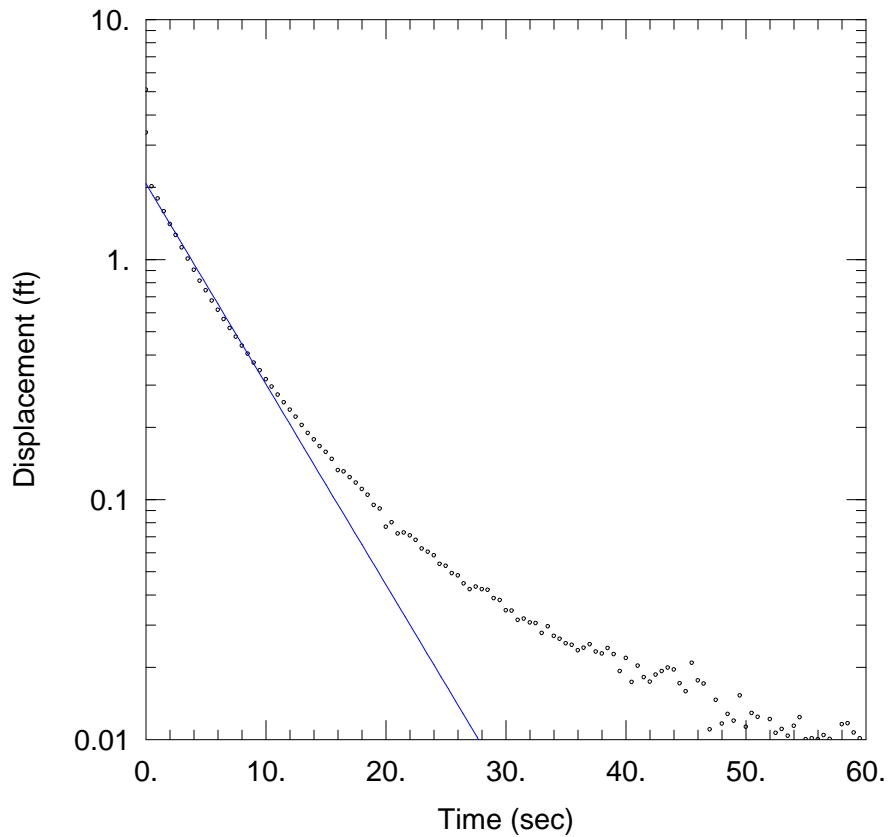
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.48 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW15-25 RISING HEAD TEST 2

Data Set: N:\...\721-MW15-25-RH2.aqt

Date: 05/10/13

Time: 15:12:54

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15-25

Test Date: January 24, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01252 cm/sec

y0 = 2.071 ft

AQUIFER DATA

Saturated Thickness: 8.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW15-25)

Initial Displacement: 3.375 ft

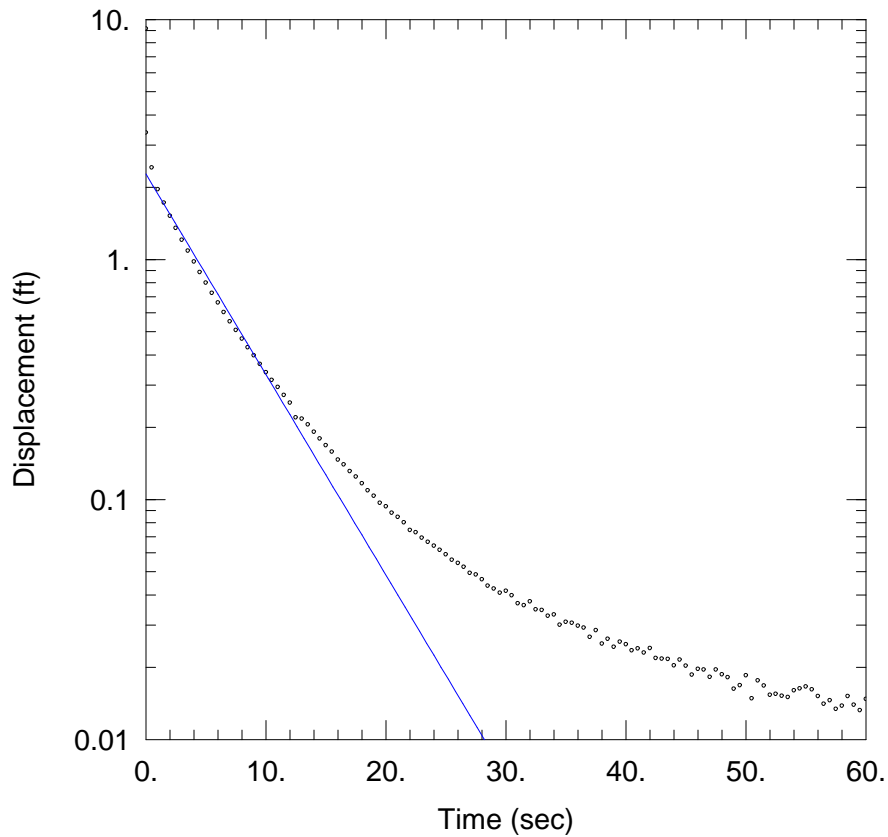
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.48 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW15-25 RISING HEAD TEST 3

Data Set: N:\...\721-MW15-25-RH3.aqt

Date: 05/10/13

Time: 15:12:43

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15-25

Test Date: January 24, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.01252$ cm/sec

$y_0 = 2.271$ ft

AQUIFER DATA

Saturated Thickness: 8.6 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (721-MW15-25)

Initial Displacement: 3.375 ft

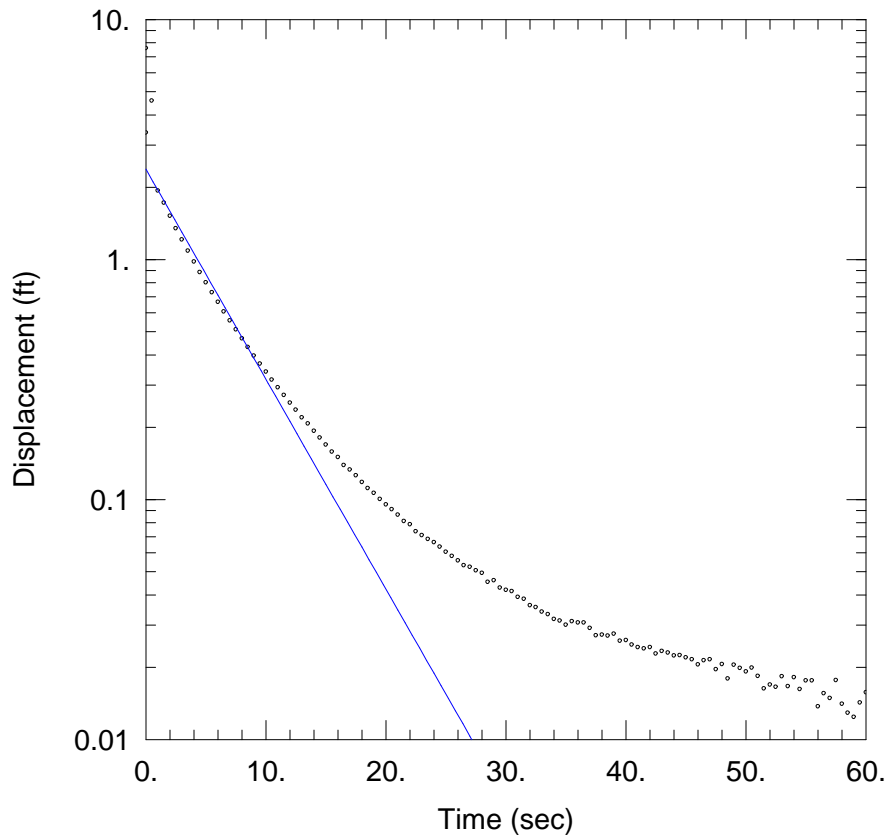
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.48 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW15-25 RISING HEAD TEST 4

Data Set: N:\...\721-MW15-25-RH4.aqt

Date: 05/10/13

Time: 15:12:33

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15-25

Test Date: January 24, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01311 cm/sec

y0 = 2.378 ft

AQUIFER DATA

Saturated Thickness: 8.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW15-25)

Initial Displacement: 3.375 ft

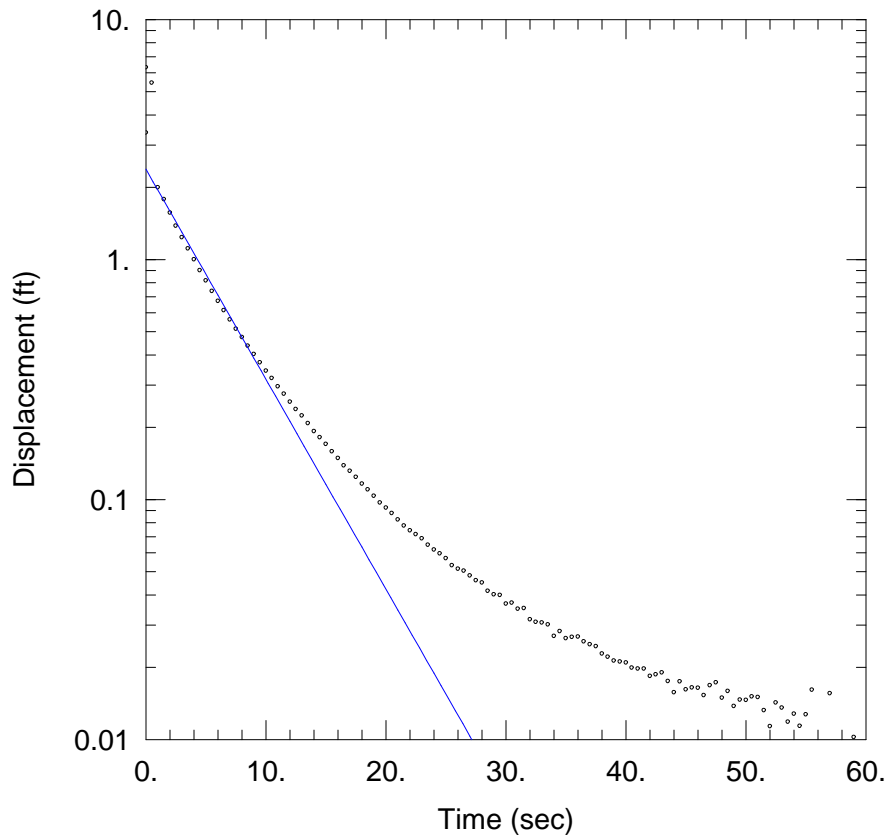
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.48 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW15-25 RISING HEAD TEST 5

Data Set: N:\...\721-MW15-25-RH5.aqt

Date: 05/10/13

Time: 15:12:21

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15-25

Test Date: January 24, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.01311 cm/sec

y0 = 2.378 ft

AQUIFER DATA

Saturated Thickness: 8.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW15-25)

Initial Displacement: 3.375 ft

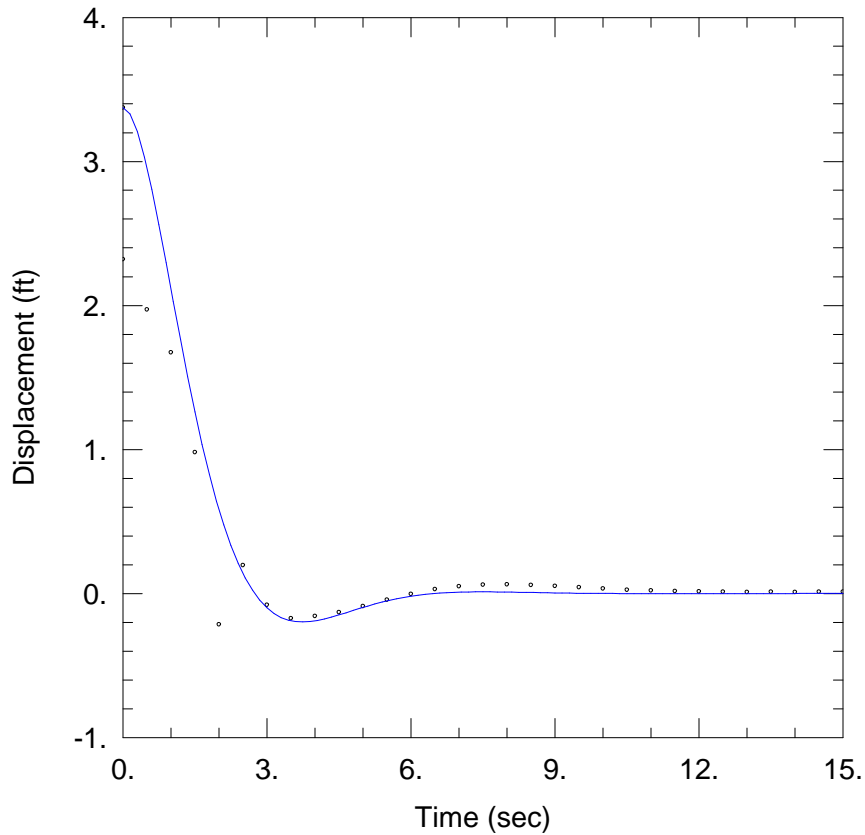
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 15.48 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW15-50 FALLING HEAD TEST 1

Data Set: N:\...\721-MW15-50-FH1.aqt

Date: 05/09/13

Time: 11:14:52

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15-50

Test Date: January 24, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Butler

K = 0.07543 cm/sec

Le = 25.12 ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW15-50)

Initial Displacement: 3.375 ft

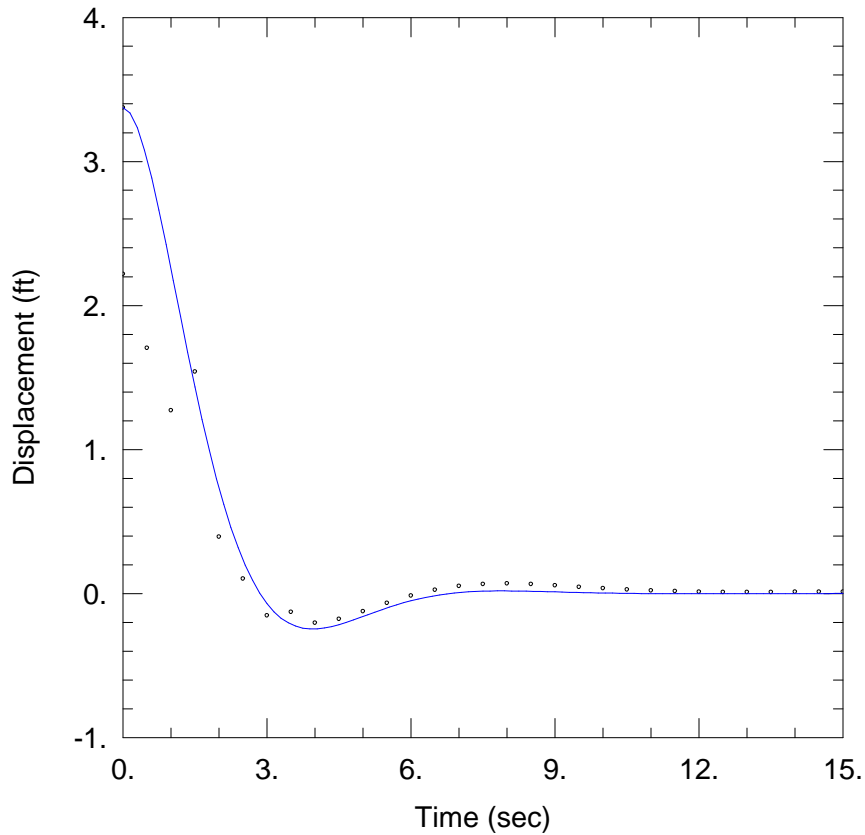
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.68 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW15-50 FALLING HEAD TEST 2

Data Set: N:\...\721-MW15-50-FH2.aqt

Date: 05/13/13

Time: 15:09:47

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15-50

Test Date: January 24, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Butler

K = 0.07203 cm/sec

Le = 30.2 ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW15-50)

Initial Displacement: 3.375 ft

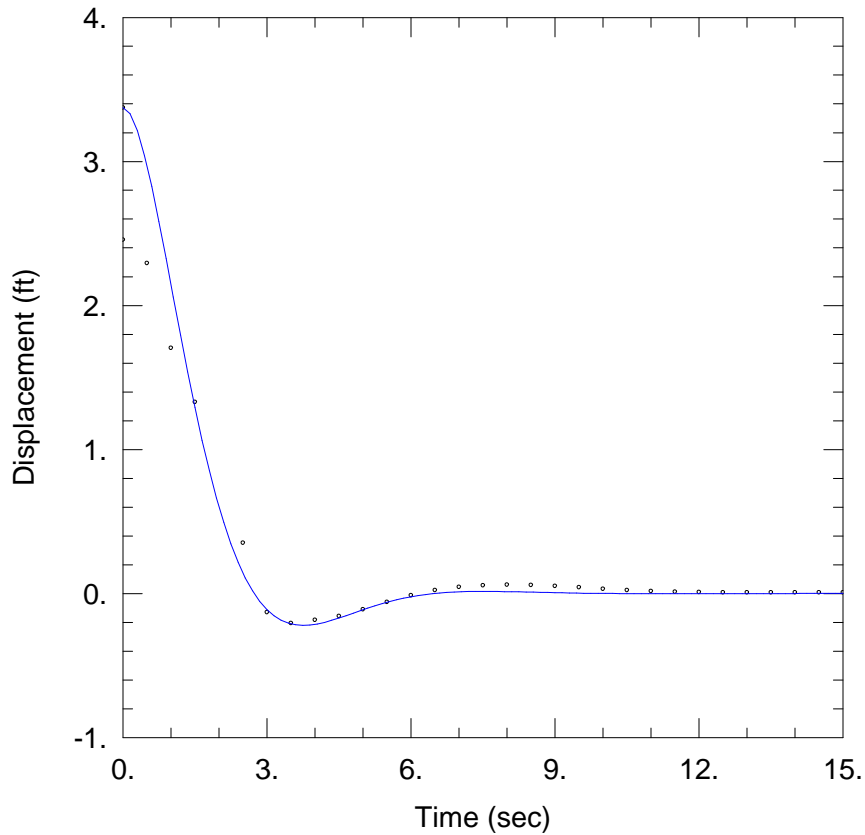
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.68 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW15-50 FALLING HEAD TEST 3

Data Set: N:\...\721-MW15-50-FH3.aqt

Date: 05/09/13

Time: 11:14:26

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15-50

Test Date: January 24, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Butler

K = 0.07543 cm/sec

Le = 26.3 ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW15-50)

Initial Displacement: 3.375 ft

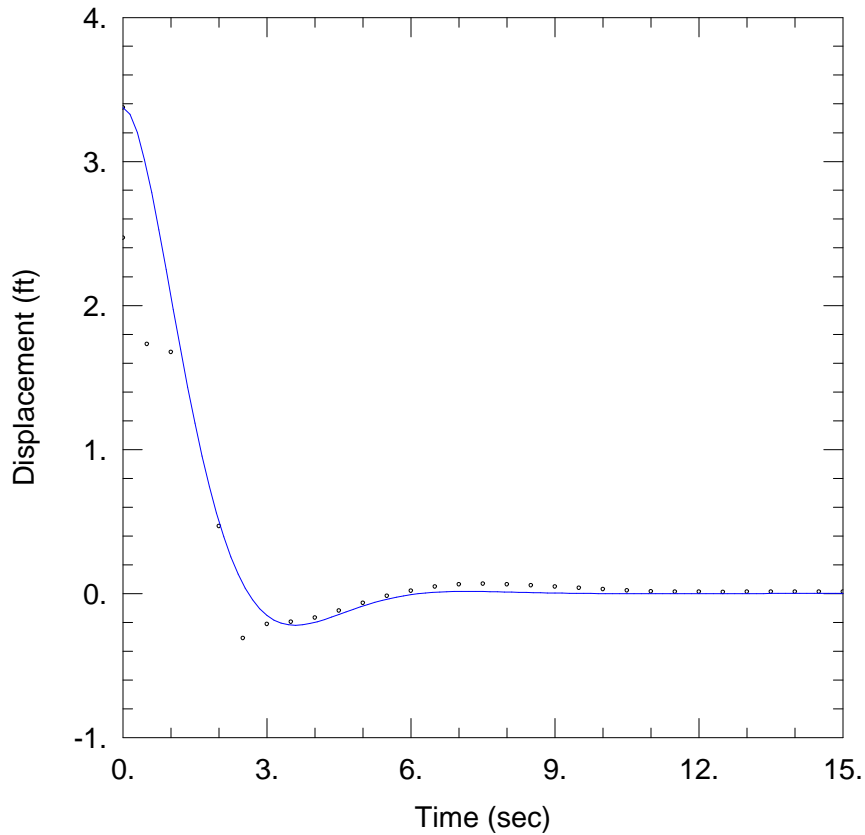
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.68 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW15-50 FALLING HEAD TEST 4

Data Set: N:\...\721-MW15-50-FH4.aqt

Date: 05/09/13

Time: 11:14:12

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15-50

Test Date: January 24, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Butler

K = 0.07898 cm/sec

Le = 23.99 ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW15-50)

Initial Displacement: 3.375 ft

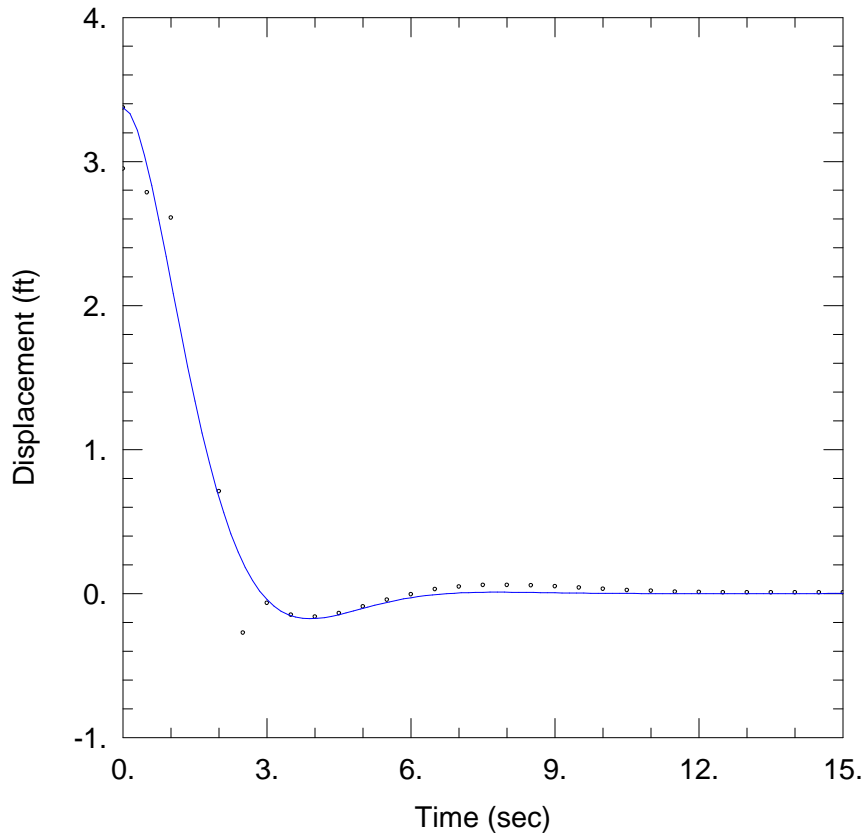
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.68 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW15-50 FALLING HEAD TEST 5

Data Set: N:\...\721-MW15-50-FH5.aqt

Date: 05/09/13

Time: 11:13:59

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15-50

Test Date: January 24, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Butler

K = 0.07203 cm/sec

Le = 26.3 ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW15-50)

Initial Displacement: 3.375 ft

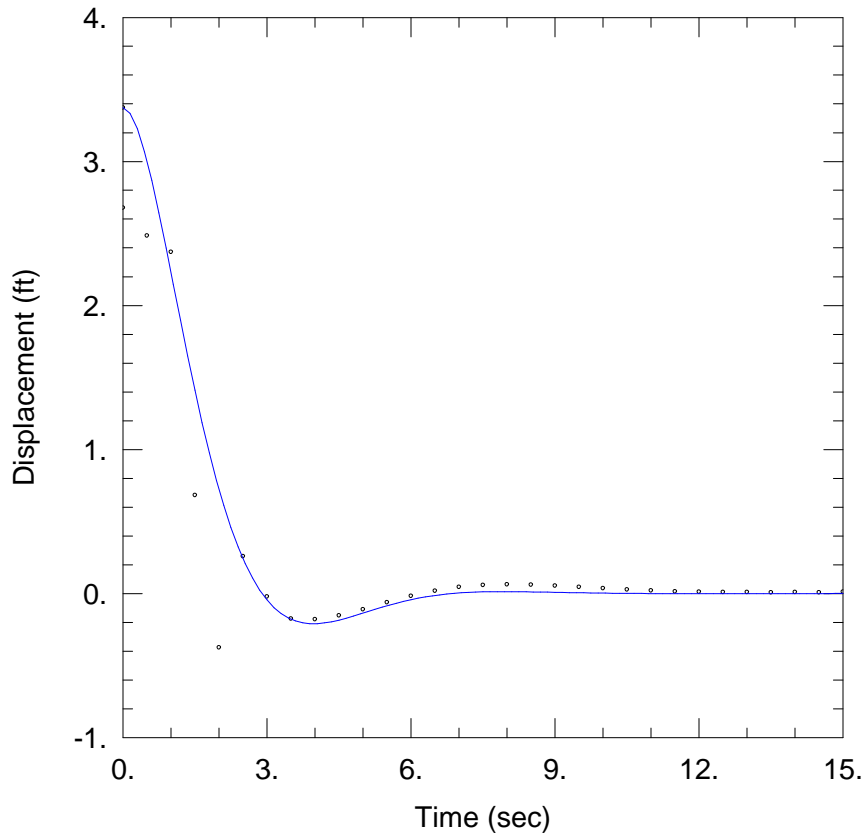
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.68 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW15-50 FALLING HEAD TEST 6

Data Set: N:\...\721-MW15-50-FH6.aqt

Date: 05/09/13

Time: 11:09:19

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15-50

Test Date: January 24, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Butler

K = 0.07121 cm/sec

Le = 28.84 ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW15-50)

Initial Displacement: 3.375 ft

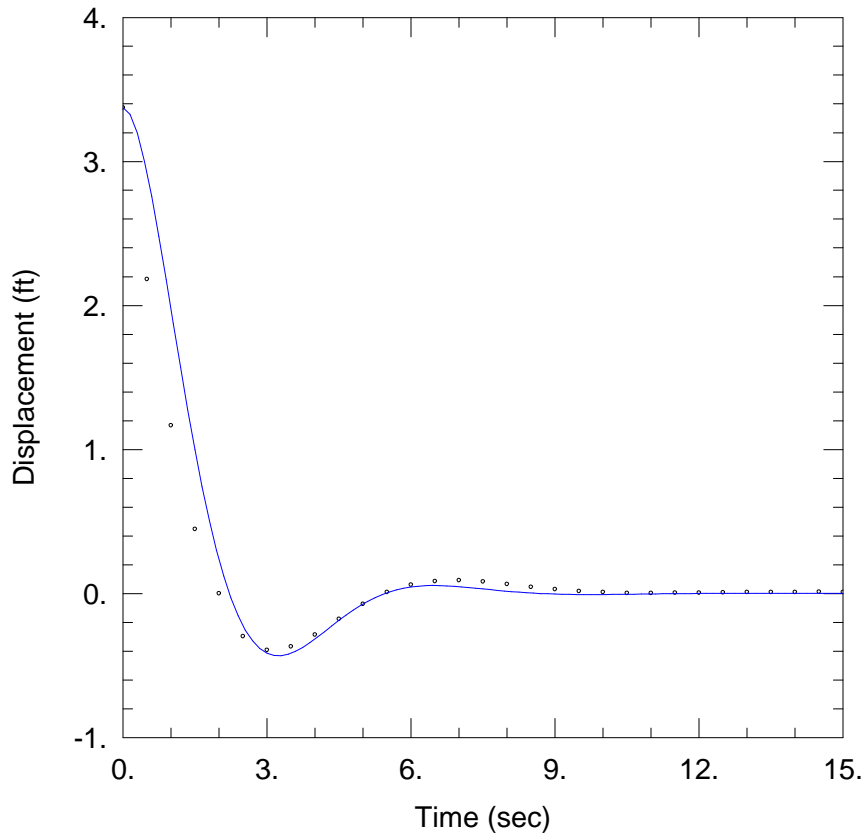
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.68 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW15-50 RISING HEAD TEST 1

Data Set: N:\...\721-MW15-50-RH1.aqt

Date: 05/09/13

Time: 11:24:31

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15-50

Test Date: January 24, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Butler

K = 0.09496 cm/sec

Le = 23.99 ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW15-50)

Initial Displacement: 3.375 ft

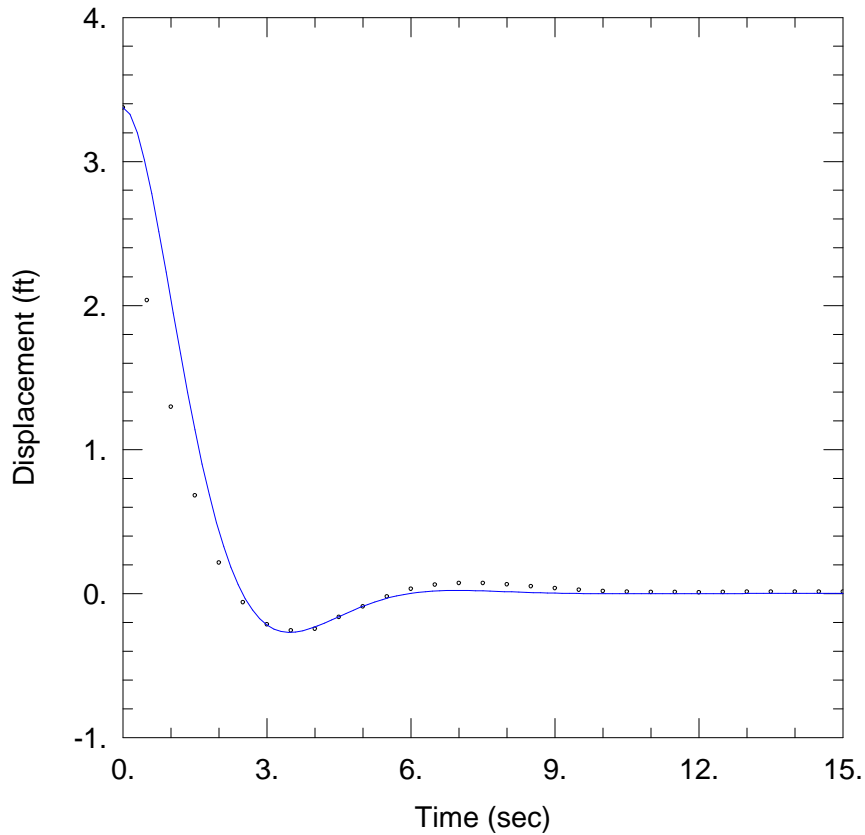
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.68 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW15-50 RISING HEAD TEST 2

Data Set: N:\...\721-MW15-50-RH2.aqt

Date: 05/09/13

Time: 11:24:18

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15-50

Test Date: January 24, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Butler

K = 0.0827 cm/sec

Le = 23.99 ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW15-50)

Initial Displacement: 3.375 ft

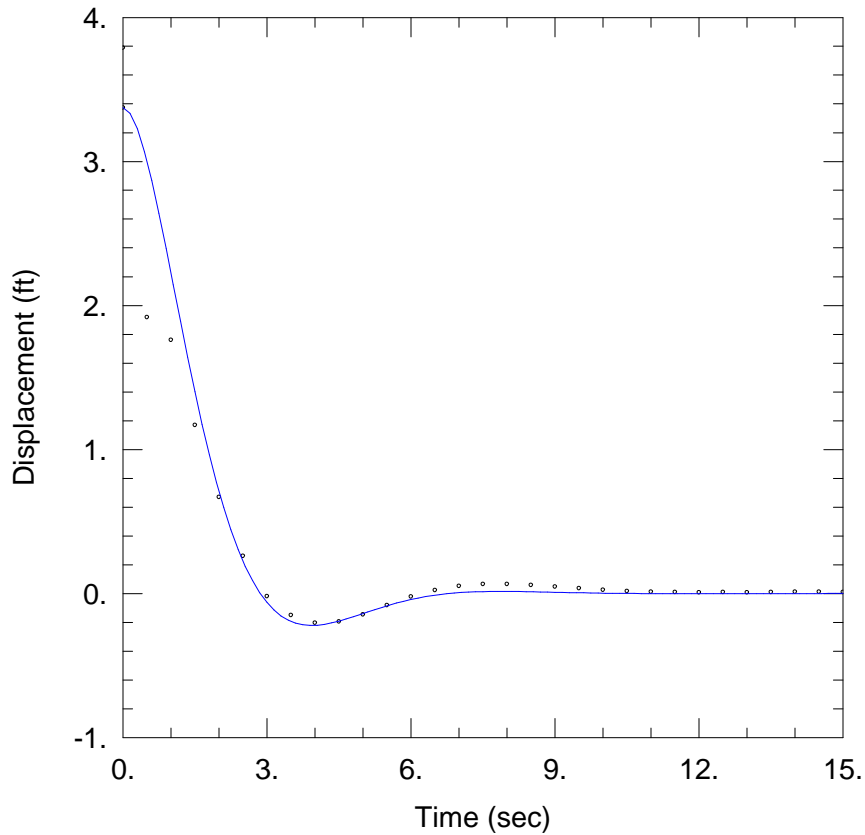
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.68 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW15-50 RISING HEAD TEST 3

Data Set: N:\...\721-MW15-50-RH3.aqt

Date: 05/09/13

Time: 11:24:04

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15-50

Test Date: January 24, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Butler

K = 0.07203 cm/sec

Le = 28.84 ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW15-50)

Initial Displacement: 3.375 ft

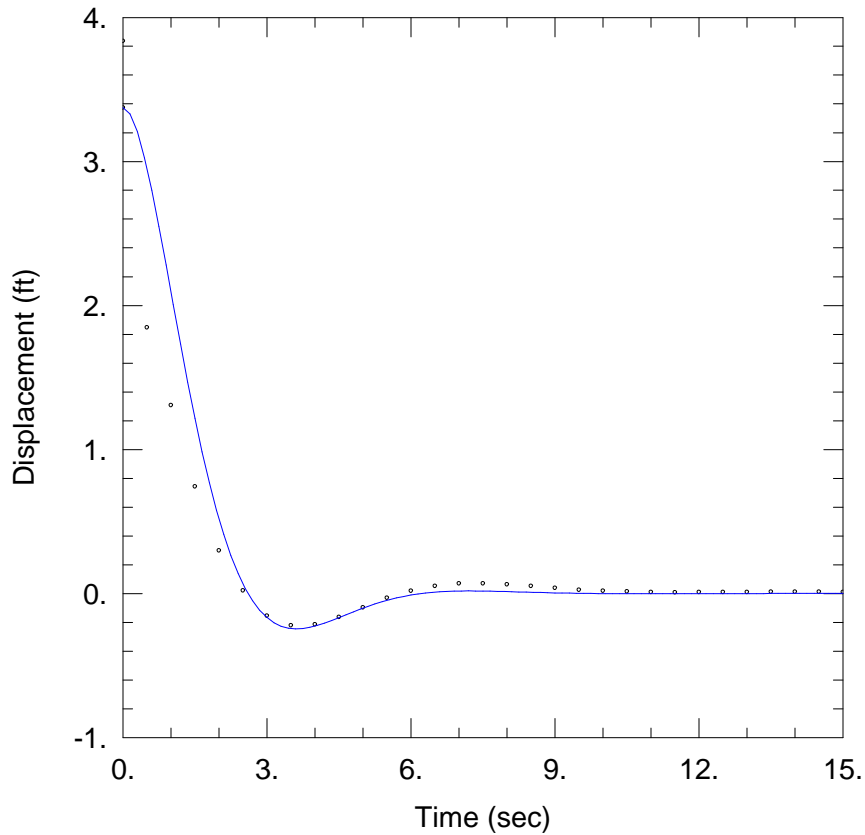
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.68 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW15-50 RISING HEAD TEST 4

Data Set: N:\...\721-MW15-50-RH4.aqt

Date: 05/09/13

Time: 11:23:51

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15-50

Test Date: January 24, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Butler

K = 0.07898 cm/sec

Le = 25.12 ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW15-50)

Initial Displacement: 3.375 ft

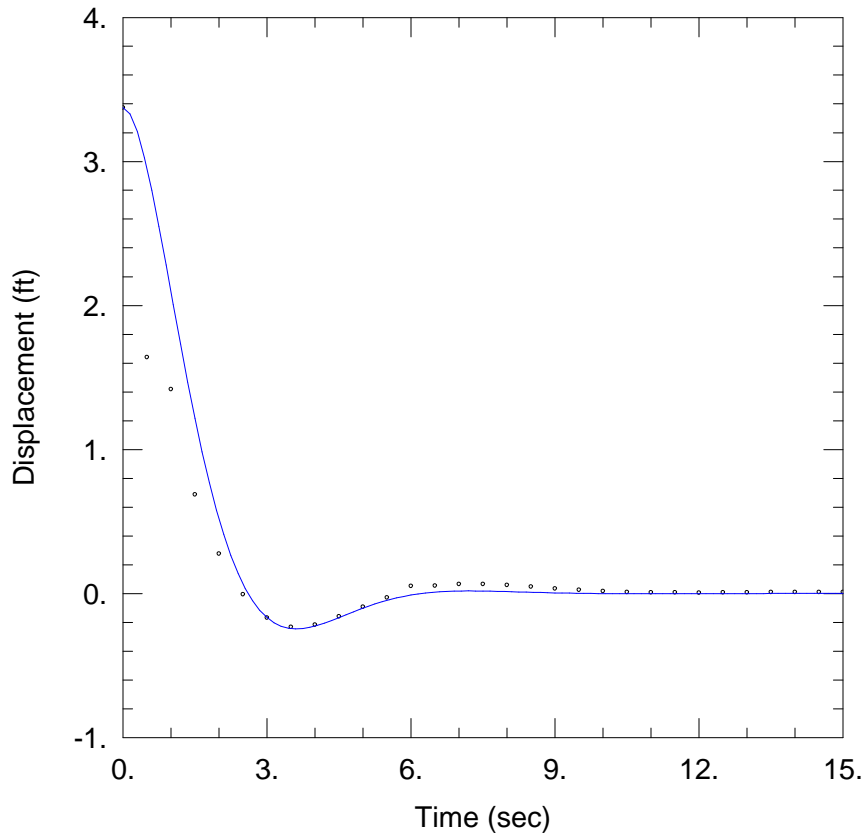
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.68 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW15-50 RISING HEAD TEST 5

Data Set: N:\...\721-MW15-50-RH5.aqt

Date: 05/09/13

Time: 11:23:39

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15-50

Test Date: January 24, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Butler

K = 0.07898 cm/sec

Le = 25.12 ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW15-50)

Initial Displacement: 3.375 ft

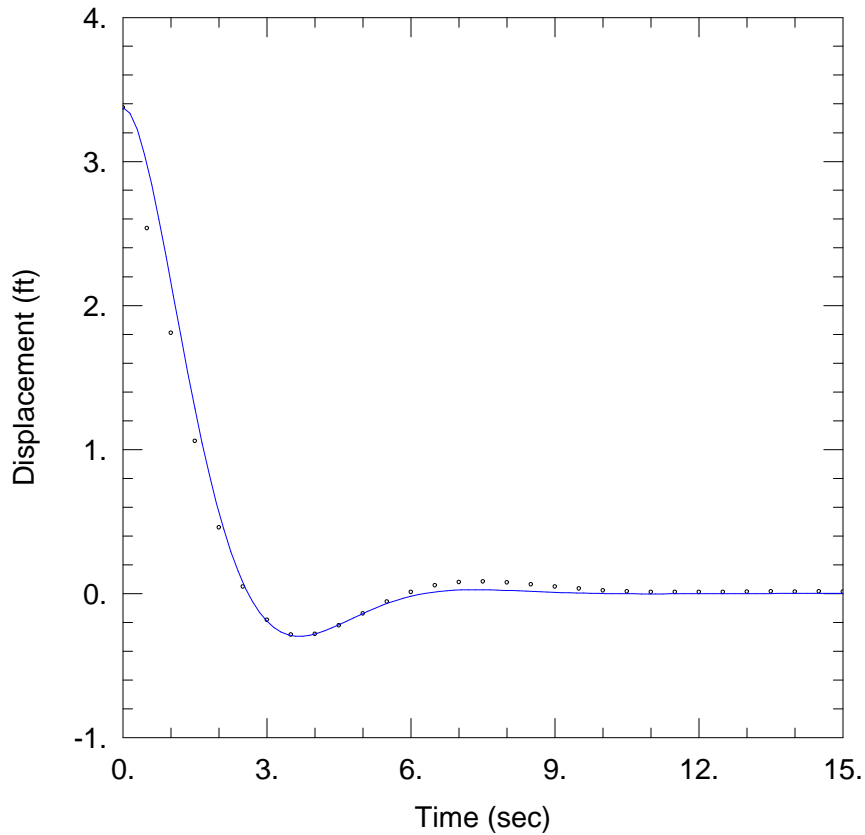
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.68 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



721-MW15-50 RISING HEAD TEST 6

Data Set: N:\...\721-MW15-50-RH6.aqt

Date: 05/09/13

Time: 11:23:25

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 721-MW15-50

Test Date: January 24, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Butler

K = 0.07898 cm/sec

Le = 27.54 ft

AQUIFER DATA

Saturated Thickness: 9.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (721-MW15-50)

Initial Displacement: 3.375 ft

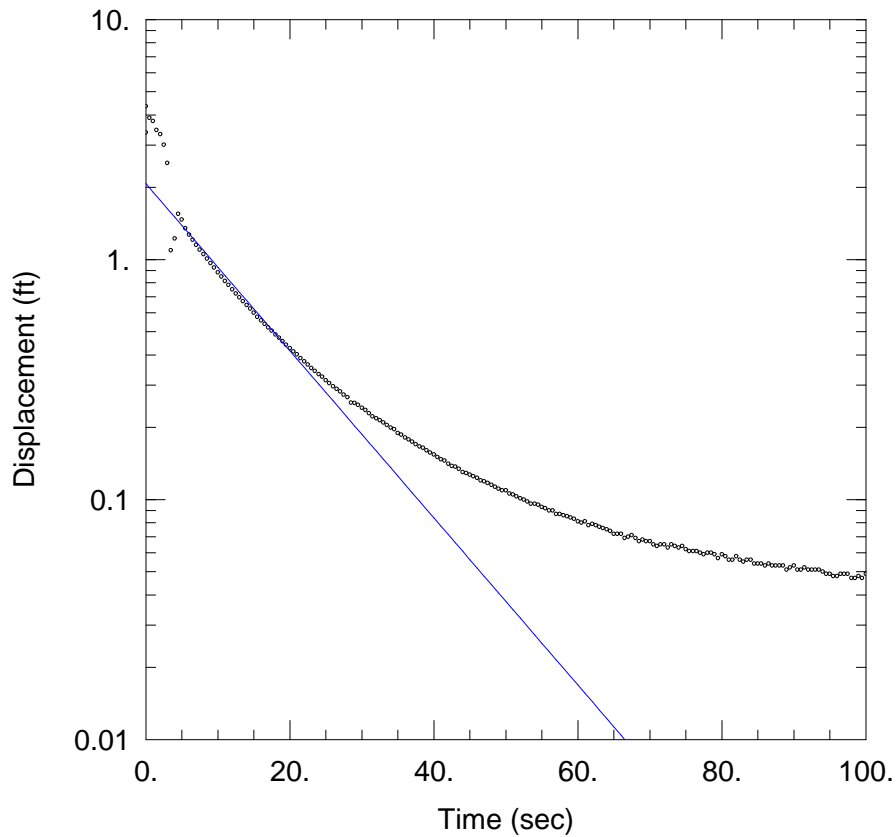
Total Well Penetration Depth: 8. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.68 ft

Screen Length: 5. ft

Well Radius: 0.25 ft



74-50 FALLING HEAD TEST 1

Data Set: N:\...\74-50-FH1.aqt
 Date: 05/09/13 Time: 16:49:05

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 74-50
 Test Date: February 4, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.005218$ cm/sec
 $y_0 = 2.071$ ft

AQUIFER DATA

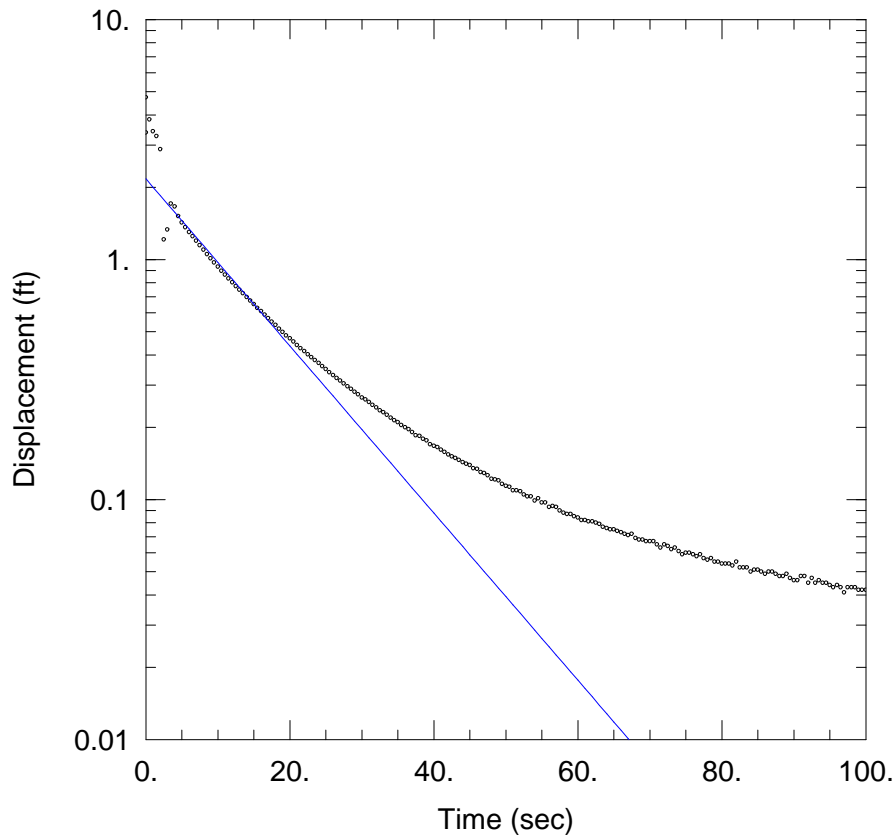
Saturated Thickness: 13.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (74-50)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 12.3 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 39.35 ft
 Screen Length: 5 ft
 Well Radius: 0.3542 ft



74-50 FALLING HEAD TEST 2

Data Set: N:\...\74-50-FH2.aqt
 Date: 05/09/13 Time: 16:48:54

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 74-50
 Test Date: February 4, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.005218$ cm/sec
 $y_0 = 2.168$ ft

AQUIFER DATA

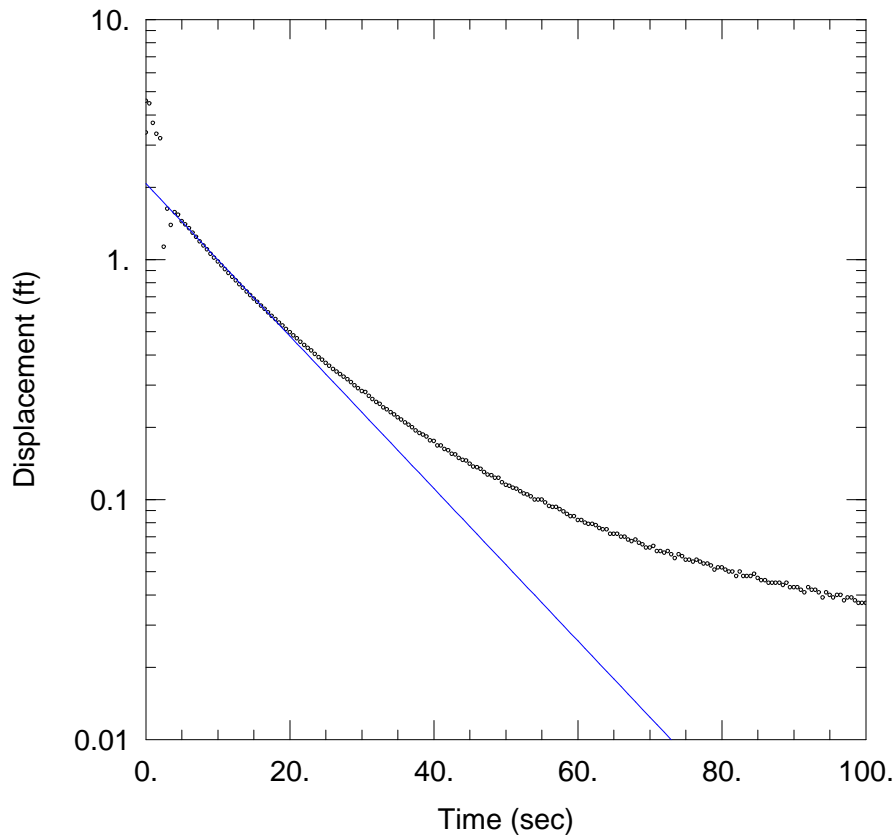
Saturated Thickness: 13.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (74-50)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 12.3 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 39.35 ft
 Screen Length: 5 ft
 Well Radius: 0.3542 ft



74-50 FALLING HEAD TEST 3

Data Set: N:\...\74-50-FH3.aqt
 Date: 05/09/13 Time: 16:48:42

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 74-50
 Test Date: February 4, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.004759$ cm/sec
 $y_0 = 2.071$ ft

AQUIFER DATA

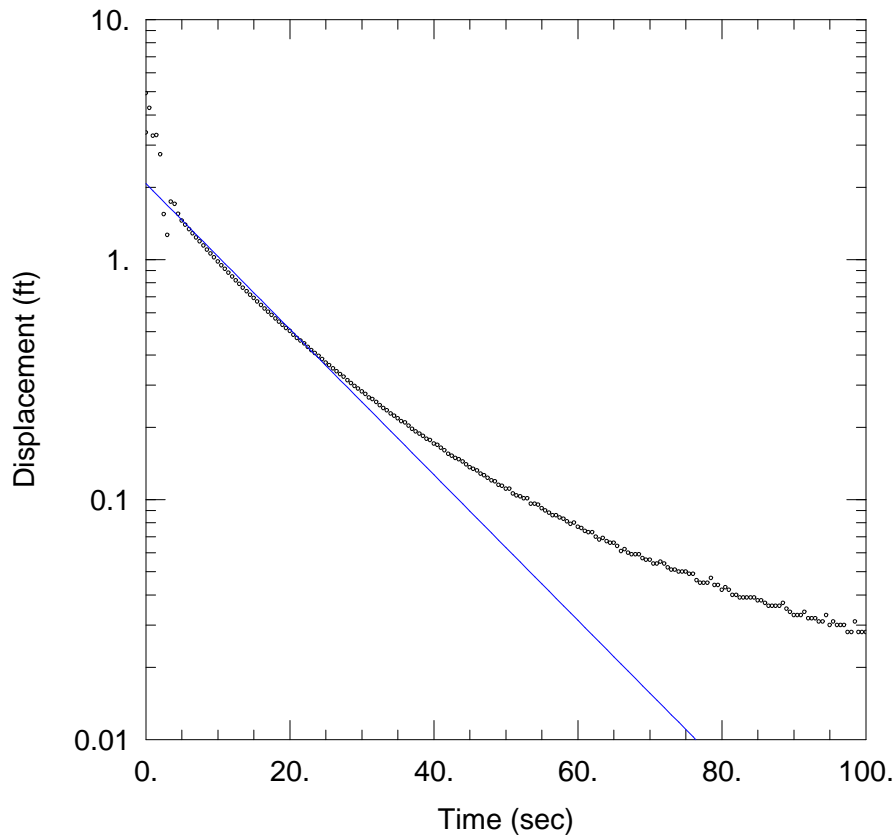
Saturated Thickness: 13.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (74-50)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 12.3 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 39.35 ft
 Screen Length: 5 ft
 Well Radius: 0.3542 ft



74-50 FALLING HEAD TEST 4

Data Set: N:\...\74-50-FH4.aqt
 Date: 05/09/13 Time: 16:48:30

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 74-50
 Test Date: February 4, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.004545$ cm/sec
 $y_0 = 2.071$ ft

AQUIFER DATA

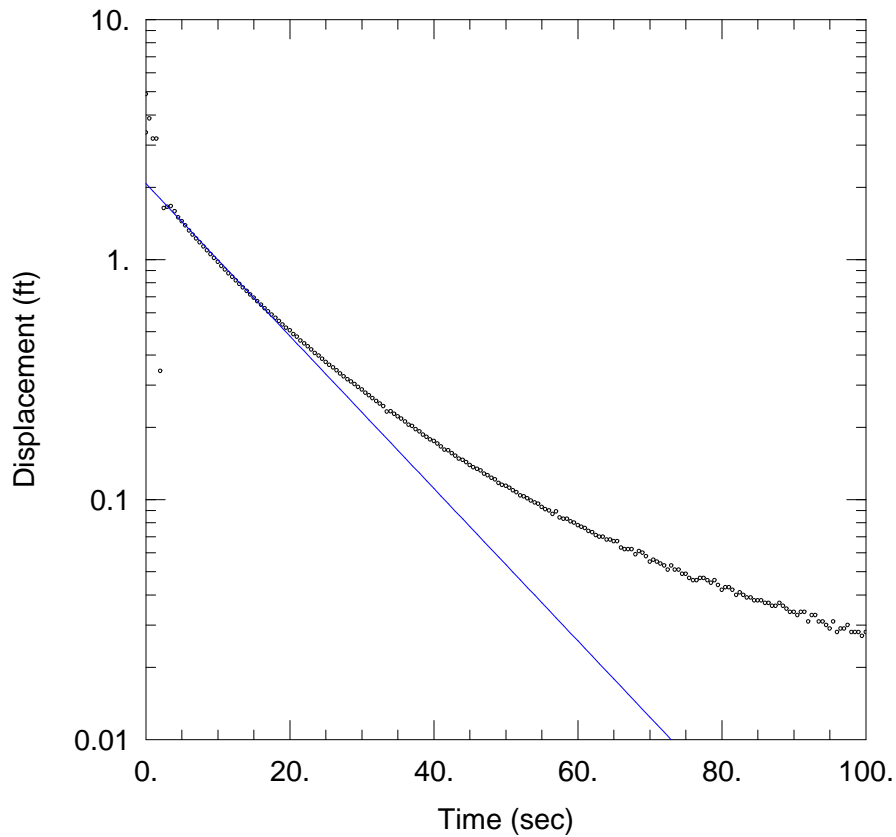
Saturated Thickness: 13.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (74-50)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 12.3 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 39.35 ft
 Screen Length: 5 ft
 Well Radius: 0.3542 ft



74-50 FALLING HEAD TEST 5

Data Set: N:\...\74-50-FH5.aqt
 Date: 05/09/13 Time: 16:48:18

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 74-50
 Test Date: February 4, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.004759$ cm/sec
 $y_0 = 2.071$ ft

AQUIFER DATA

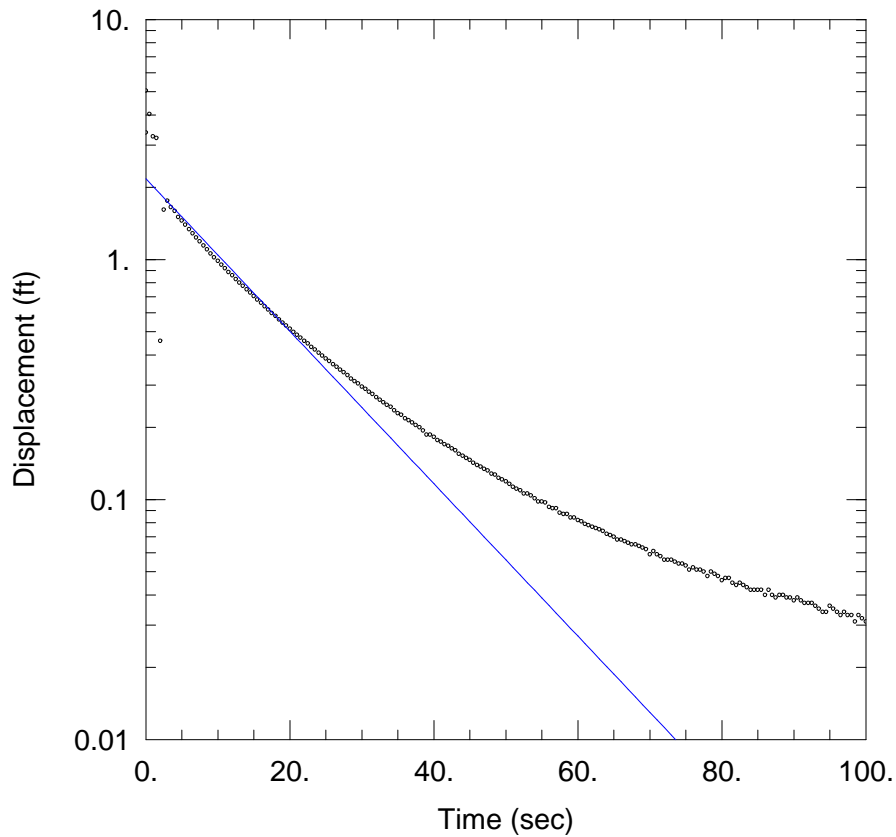
Saturated Thickness: 13.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (74-50)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 12.3 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 39.35 ft
 Screen Length: 5 ft
 Well Radius: 0.3542 ft



74-50 FALLING HEAD TEST 6

Data Set: N:\...\74-50-FH6.aqt
 Date: 05/09/13 Time: 16:48:05

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 74-50
 Test Date: February 4, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.004759$ cm/sec
 $y_0 = 2.168$ ft

AQUIFER DATA

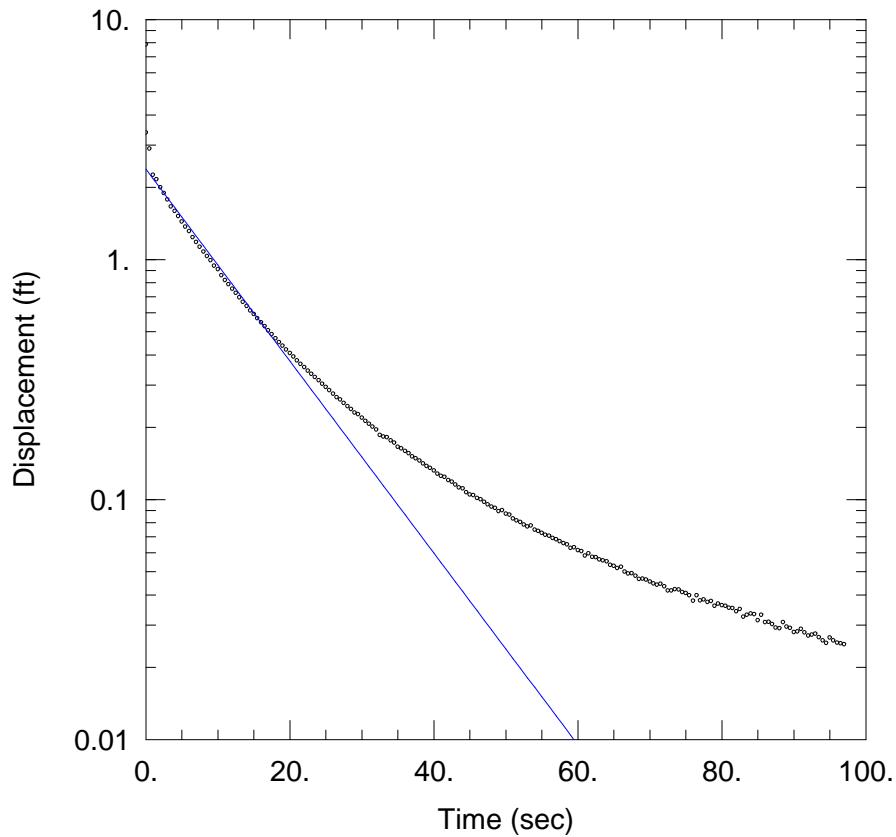
Saturated Thickness: 13.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (74-50)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 12.3 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 39.35 ft
 Screen Length: 5 ft
 Well Radius: 0.3542 ft



74-50 RISING HEAD TEST 1

Data Set: N:\...\74-50-RH1.aqt
 Date: 05/09/13 Time: 16:53:41

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 74-50
 Test Date: February 4, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.005991$ cm/sec
 $y_0 = 2.378$ ft

AQUIFER DATA

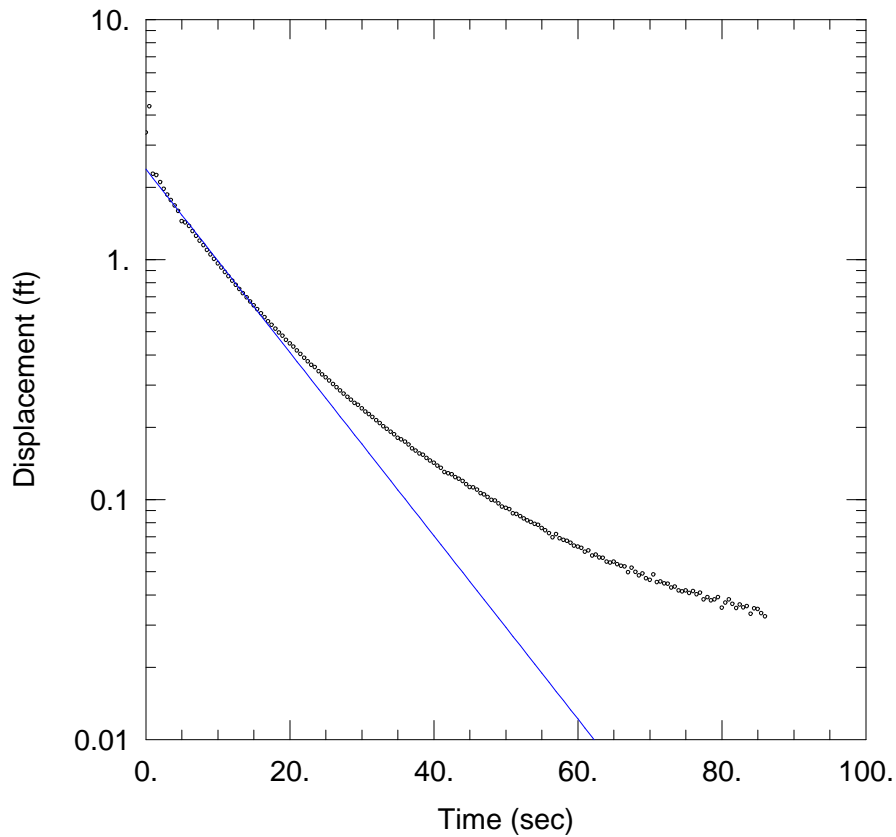
Saturated Thickness: 13.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (74-50)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 12.3 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 39.35 ft
 Screen Length: 5 ft
 Well Radius: 0.3542 ft



74-50 RISING HEAD TEST 2

Data Set: N:\...\74-50-RH2.aqt
 Date: 05/09/13 Time: 16:53:27

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 74-50
 Test Date: February 4, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.005722$ cm/sec
 $y_0 = 2.378$ ft

AQUIFER DATA

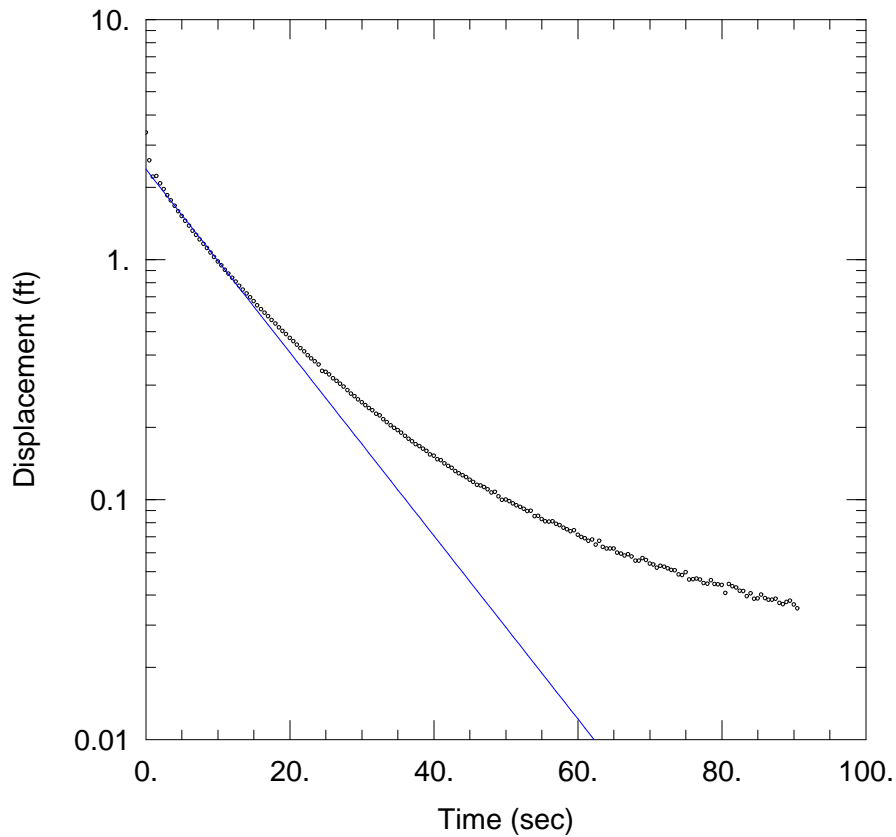
Saturated Thickness: 13.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (74-50)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 12.3 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 39.35 ft
 Screen Length: 5 ft
 Well Radius: 0.3542 ft



74-50 RISING HEAD TEST 3

Data Set: N:\...\74-50-RH3.aqt

Date: 05/09/13

Time: 16:53:14

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 74-50

Test Date: February 4, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.005722$ cm/sec

$y_0 = 2.378$ ft

AQUIFER DATA

Saturated Thickness: 13.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (74-50)

Initial Displacement: 3.375 ft

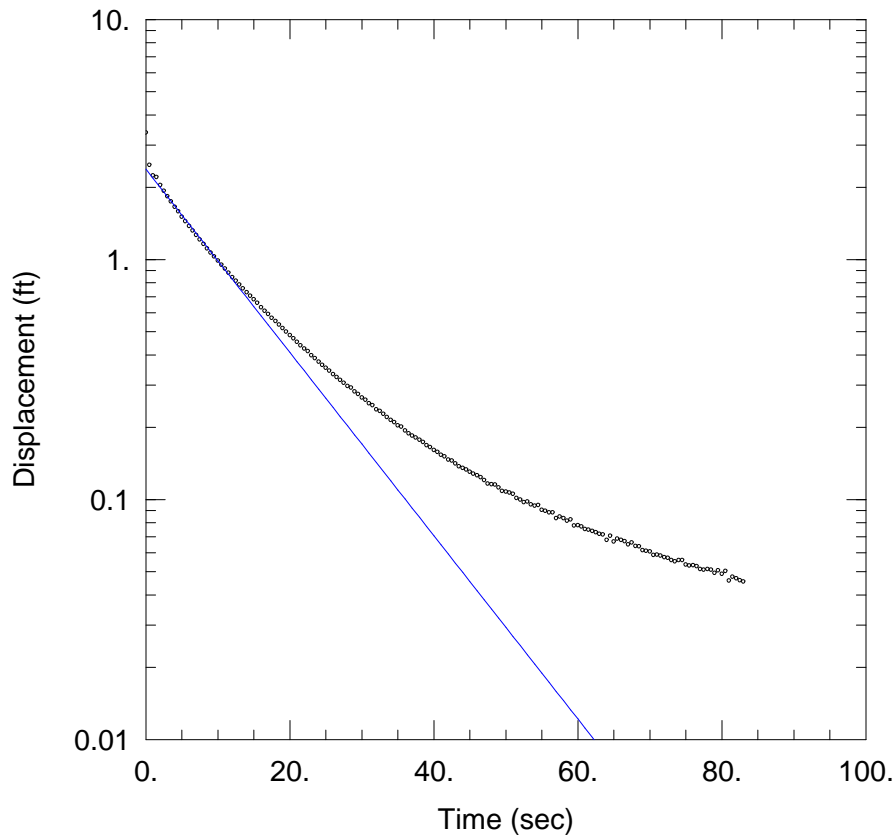
Total Well Penetration Depth: 12.3 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 39.35 ft

Screen Length: 5 ft

Well Radius: 0.3542 ft



74-50 RISING HEAD TEST 4

Data Set: N:\...\74-50-RH4.aqt
 Date: 05/09/13 Time: 16:53:01

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 74-50
 Test Date: February 4, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.005722$ cm/sec
 $y_0 = 2.378$ ft

AQUIFER DATA

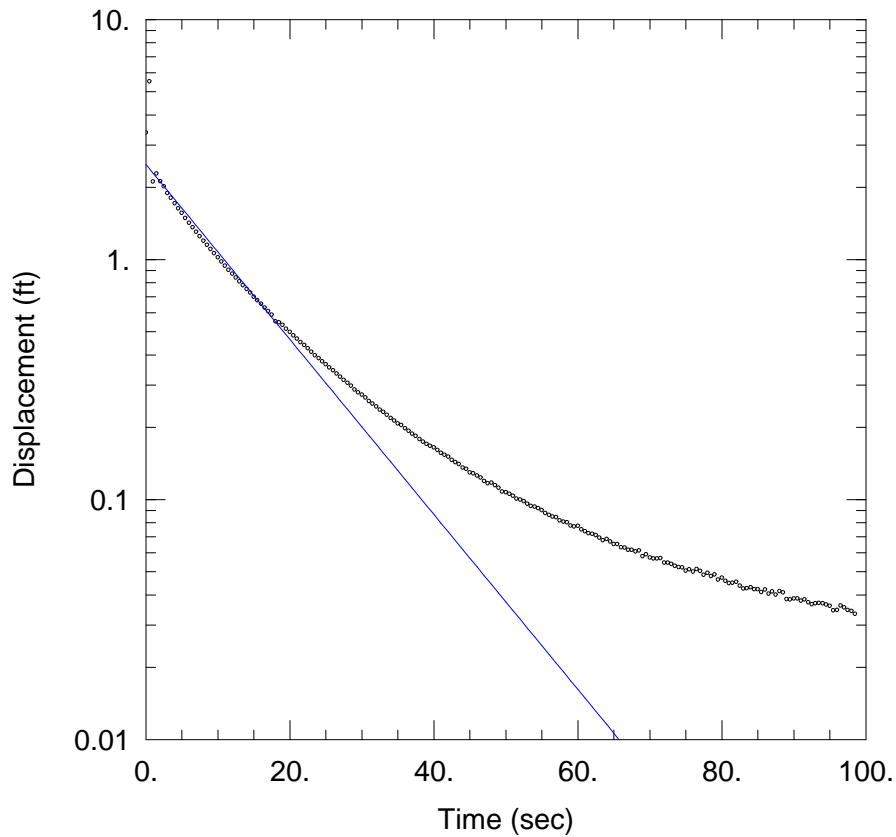
Saturated Thickness: 13.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (74-50)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 12.3 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 39.35 ft
 Screen Length: 5 ft
 Well Radius: 0.3542 ft



74-50 RISING HEAD TEST 5

Data Set: N:\...\74-50-RH5.aqt
 Date: 05/09/13 Time: 16:52:48

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 74-50
 Test Date: February 4, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.005464$ cm/sec
 $y_0 = 2.49$ ft

AQUIFER DATA

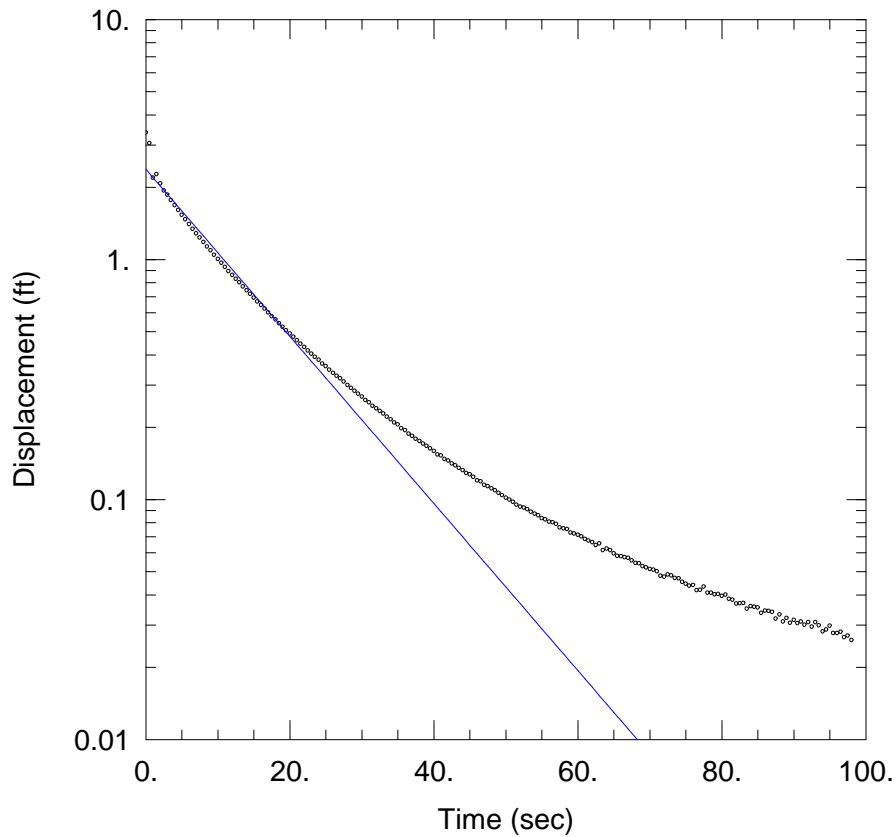
Saturated Thickness: 13.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (74-50)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 12.3 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 39.35 ft
 Screen Length: 5 ft
 Well Radius: 0.3542 ft



74-50 RISING HEAD TEST 6

Data Set: N:\...\74-50-RH6.aqt
 Date: 05/09/13 Time: 16:52:34

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 74-50
 Test Date: February 4, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.005218$ cm/sec
 $y_0 = 2.378$ ft

AQUIFER DATA

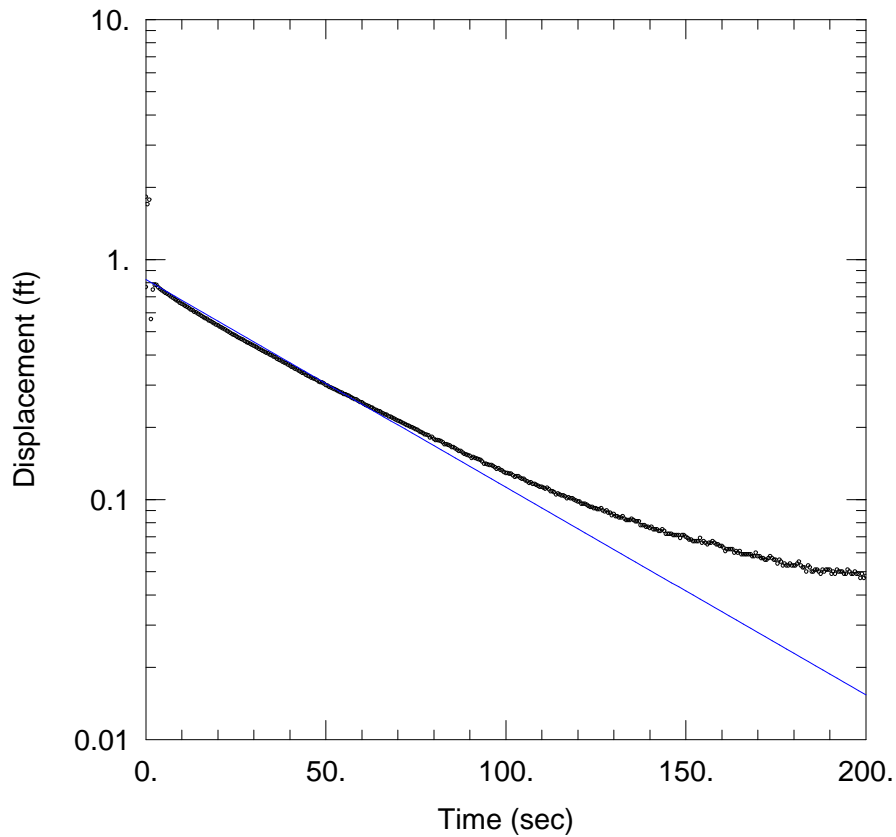
Saturated Thickness: 13.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (74-50)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 12.3 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 39.35 ft
 Screen Length: 5 ft
 Well Radius: 0.3542 ft



74-75 FALLING HEAD TEST 1

Data Set: N:\...\74-75-FH1.aqt
 Date: 05/10/13 Time: 09:10:24

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 74-75
 Test Date: February 5, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001195$ cm/sec
 $y_0 = 0.8244$ ft

AQUIFER DATA

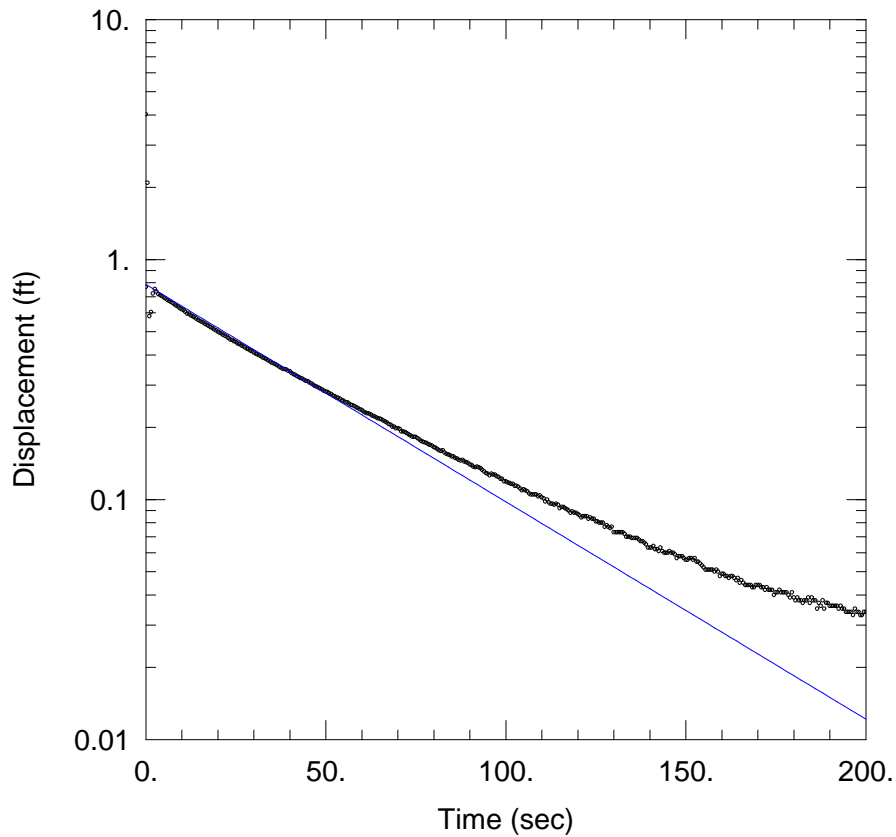
Saturated Thickness: 9 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (74-75)

Initial Displacement: 0.7656 ft
 Total Well Penetration Depth: 7.5 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 65.92 ft
 Screen Length: 5 ft
 Well Radius: 0.3542 ft



74-75 FALLING HEAD TEST 2

Data Set: N:\...\74-75-FH2.aqt

Date: 05/10/13

Time: 09:10:10

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 74-75

Test Date: February 5, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.001252 cm/sec

y0 = 0.7873 ft

AQUIFER DATA

Saturated Thickness: 9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (74-75)

Initial Displacement: 0.7656 ft

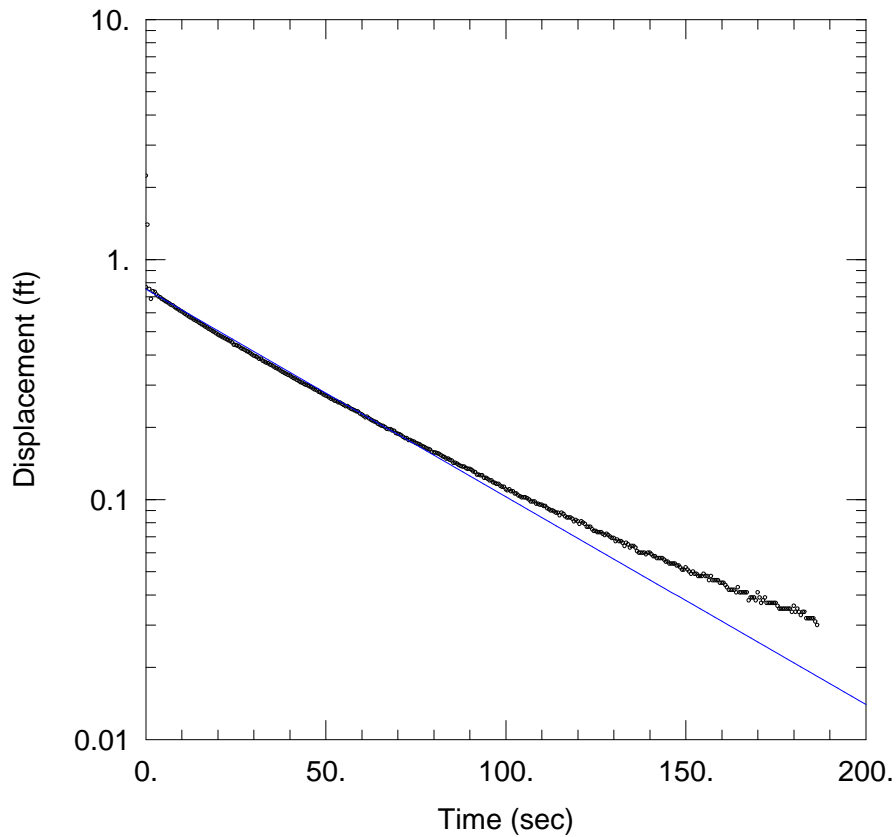
Total Well Penetration Depth: 7.5 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 65.92 ft

Screen Length: 5 ft

Well Radius: 0.3542 ft



74-75 FALLING HEAD TEST 3

Data Set: N:\...\74-75-FH3.aqt

Date: 05/10/13

Time: 09:09:56

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 74-75

Test Date: February 5, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.001195 cm/sec

y0 = 0.7518 ft

AQUIFER DATA

Saturated Thickness: 9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (74-75)

Initial Displacement: 0.7656 ft

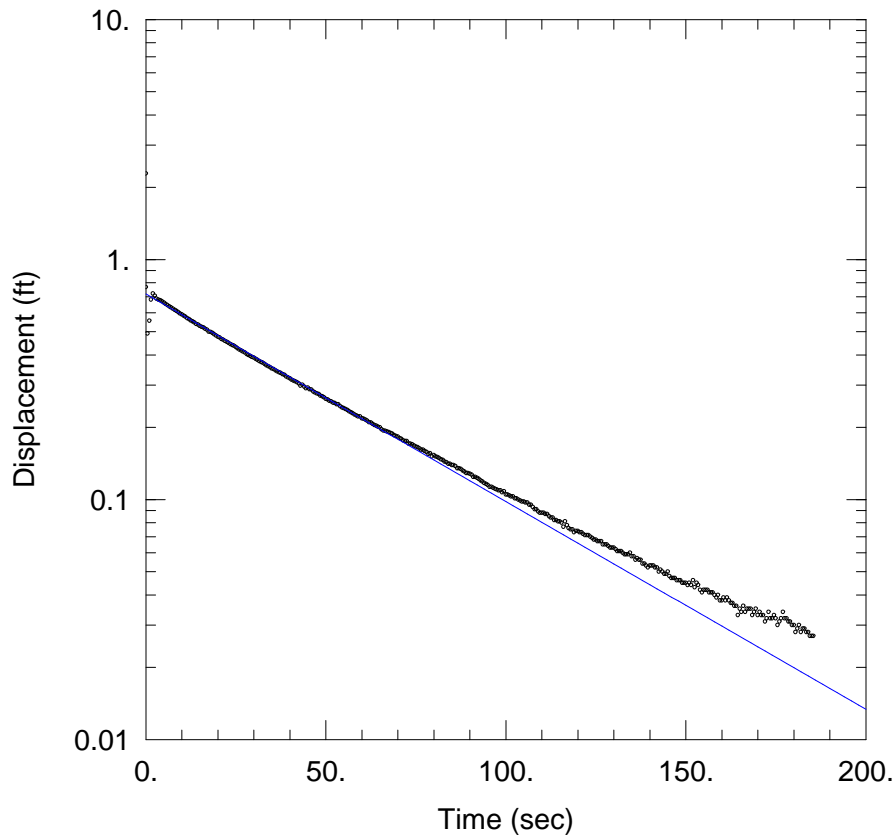
Total Well Penetration Depth: 7.5 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 65.92 ft

Screen Length: 5 ft

Well Radius: 0.3542 ft



74-75 FALLING HEAD TEST 4

Data Set: N:\...\74-75-FH4.aqt
 Date: 05/10/13 Time: 09:09:42

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 74-75
 Test Date: February 5, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.001195 cm/sec
 y0 = 0.718 ft

AQUIFER DATA

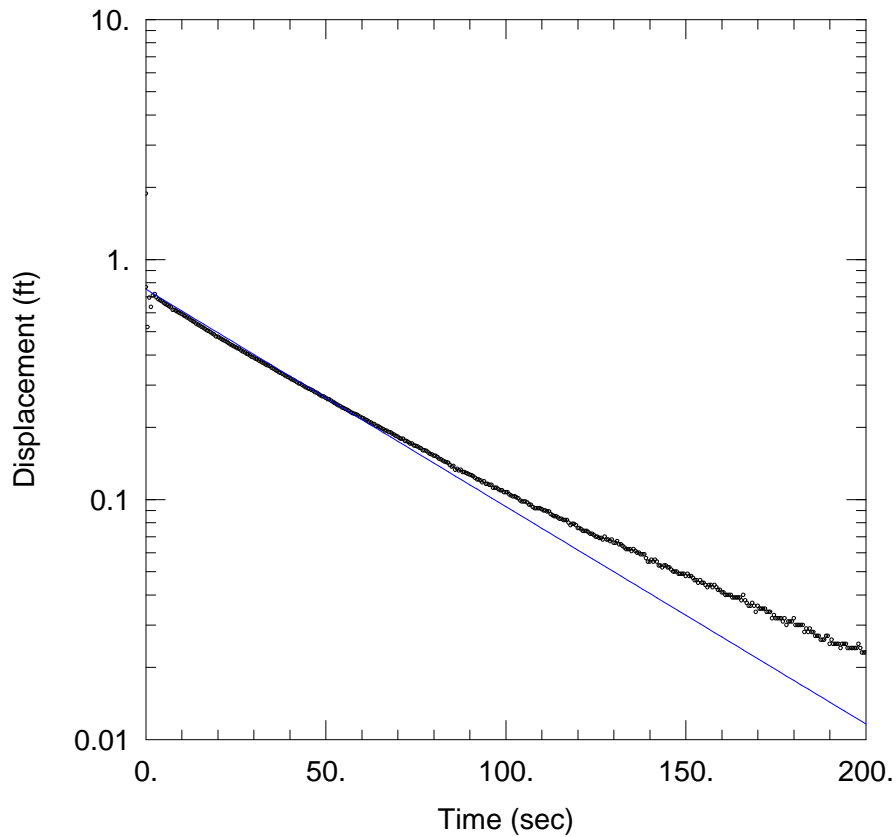
Saturated Thickness: 9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (74-75)

Initial Displacement: 0.7656 ft
 Total Well Penetration Depth: 7.5 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 65.92 ft
 Screen Length: 5 ft
 Well Radius: 0.3542 ft



74-75 FALLING HEAD TEST 5

Data Set: N:\...\74-75-FH5.aqt
 Date: 05/10/13 Time: 09:09:29

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 74-75
 Test Date: February 5, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001252$ cm/sec
 $y_0 = 0.7518$ ft

AQUIFER DATA

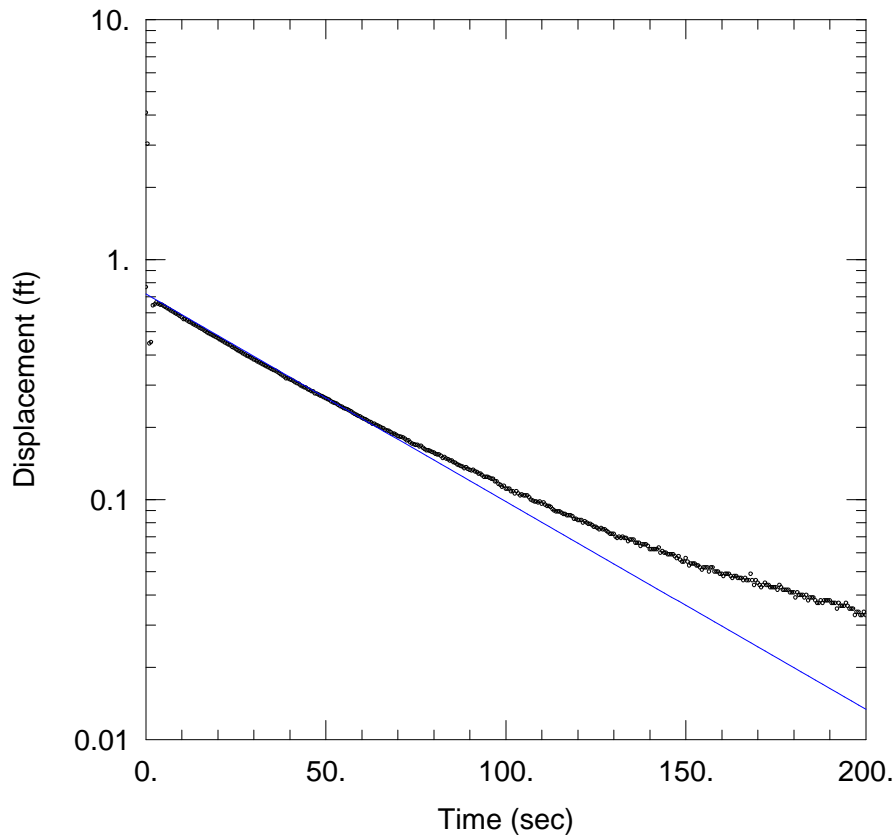
Saturated Thickness: 9 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (74-75)

Initial Displacement: 0.7656 ft
 Total Well Penetration Depth: 7.5 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 65.92 ft
 Screen Length: 5 ft
 Well Radius: 0.3542 ft



74-75 FALLING HEAD TEST 6

Data Set: N:\...\74-75-FH6.aqt

Date: 05/10/13

Time: 09:09:11

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 74-75

Test Date: February 5, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.001195 cm/sec

y0 = 0.718 ft

AQUIFER DATA

Saturated Thickness: 9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (74-75)

Initial Displacement: 0.7656 ft

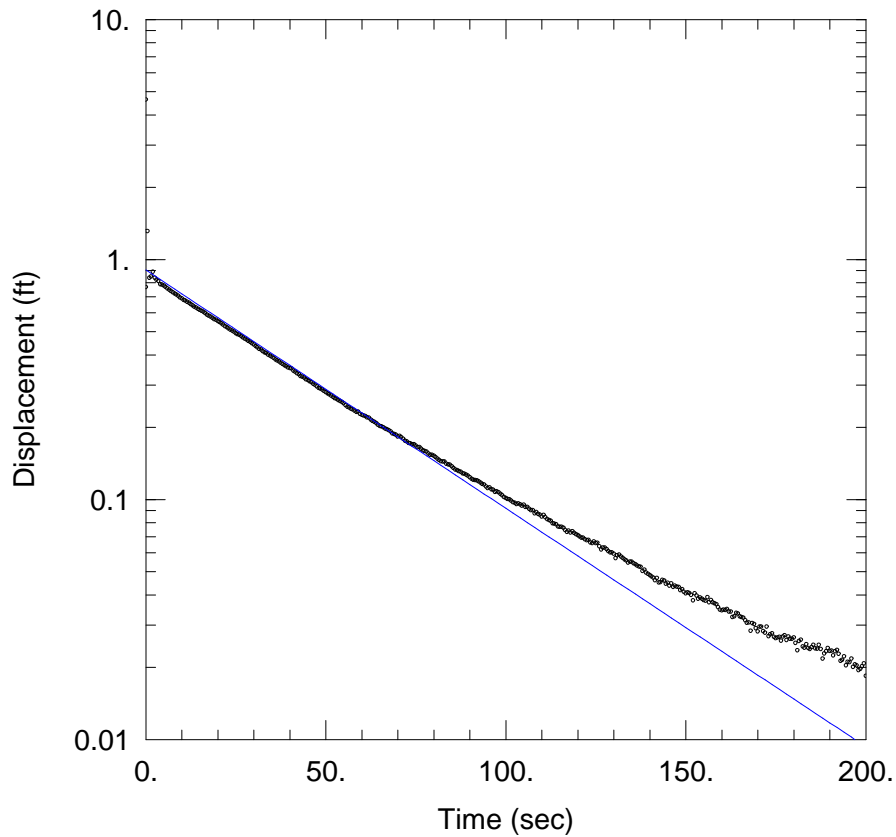
Total Well Penetration Depth: 7.5 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 65.92 ft

Screen Length: 5 ft

Well Radius: 0.3542 ft



74-75 RISING HEAD TEST 1

Data Set: N:\...\74-75-RH1.aqt
 Date: 05/10/13 Time: 09:14:54

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 74-75
 Test Date: February 5, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001373$ cm/sec
 $y_0 = 0.9039$ ft

AQUIFER DATA

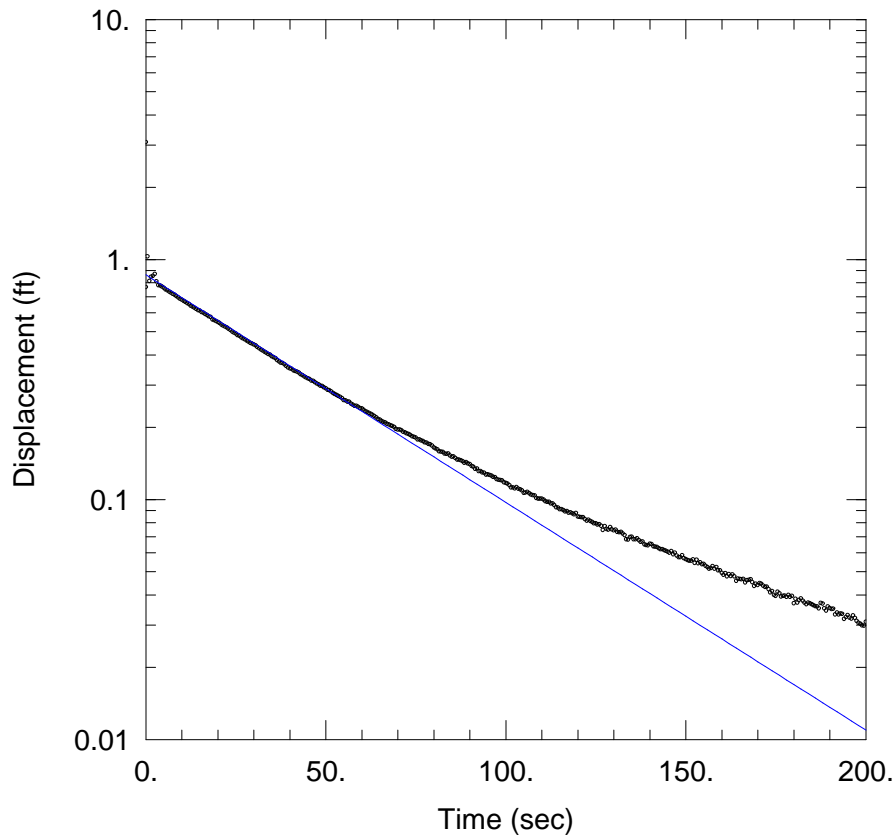
Saturated Thickness: 9 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (74-75)

Initial Displacement: 0.7656 ft
 Total Well Penetration Depth: 7.5 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 65.92 ft
 Screen Length: 5 ft
 Well Radius: 0.3542 ft



74-75 RISING HEAD TEST 2

Data Set: N:\...\74-75-RH2.aqt
 Date: 05/10/13 Time: 09:14:41

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 74-75
 Test Date: February 5, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.001311 cm/sec
 y0 = 0.8632 ft

AQUIFER DATA

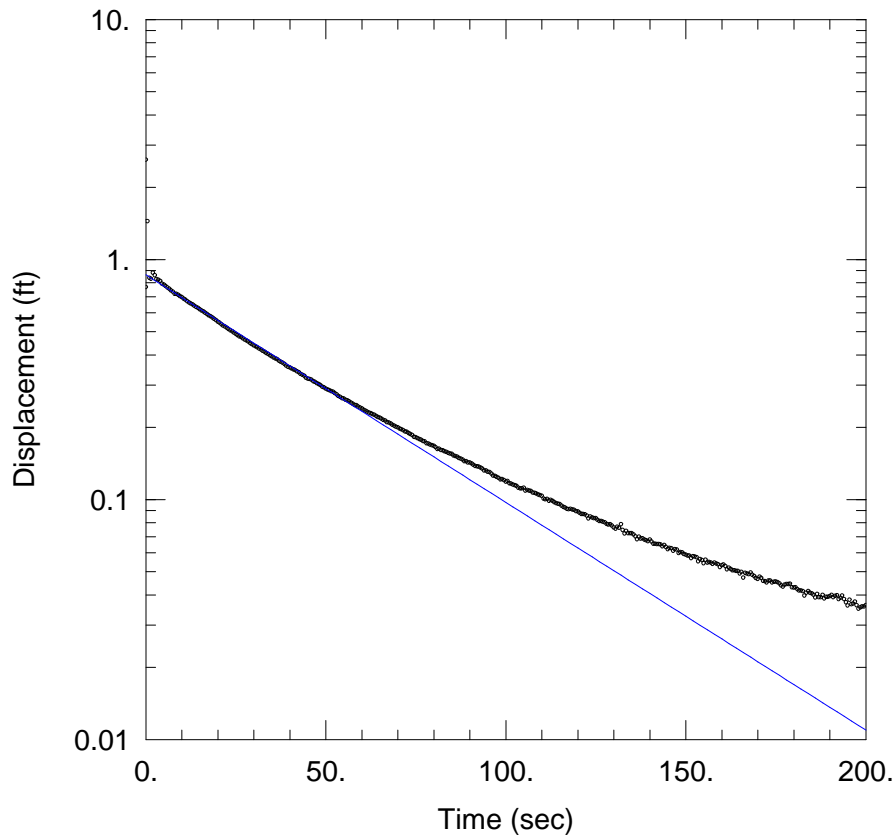
Saturated Thickness: 9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (74-75)

Initial Displacement: 0.7656 ft
 Total Well Penetration Depth: 7.5 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 65.92 ft
 Screen Length: 5 ft
 Well Radius: 0.3542 ft



74-75 RISING HEAD TEST 3

Data Set: N:\...\74-75-RH3.aqt
 Date: 05/10/13 Time: 09:14:28

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 74-75
 Test Date: February 5, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.001311 cm/sec
 y0 = 0.8632 ft

AQUIFER DATA

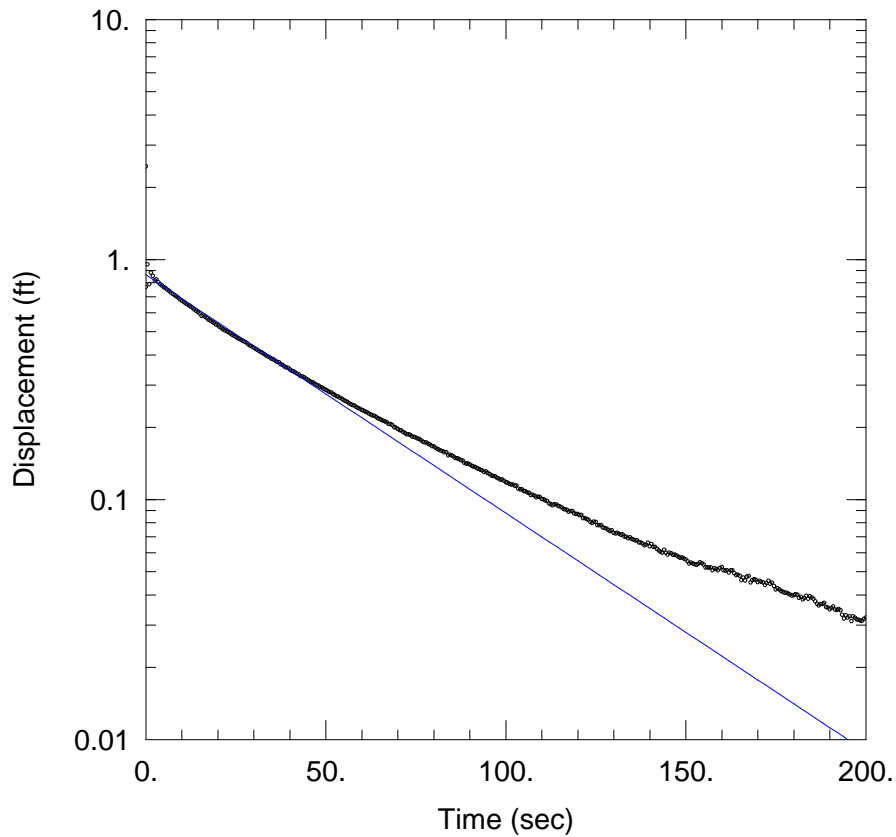
Saturated Thickness: 9 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (74-75)

Initial Displacement: 0.7656 ft
 Total Well Penetration Depth: 7.5 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 65.92 ft
 Screen Length: 5 ft
 Well Radius: 0.3542 ft



74-75 RISING HEAD TEST 4

Data Set: N:\...\74-75-RH4.aqt
 Date: 05/10/13 Time: 09:14:17

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 74-75
 Test Date: February 5, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001373$ cm/sec
 $y_0 = 0.8632$ ft

AQUIFER DATA

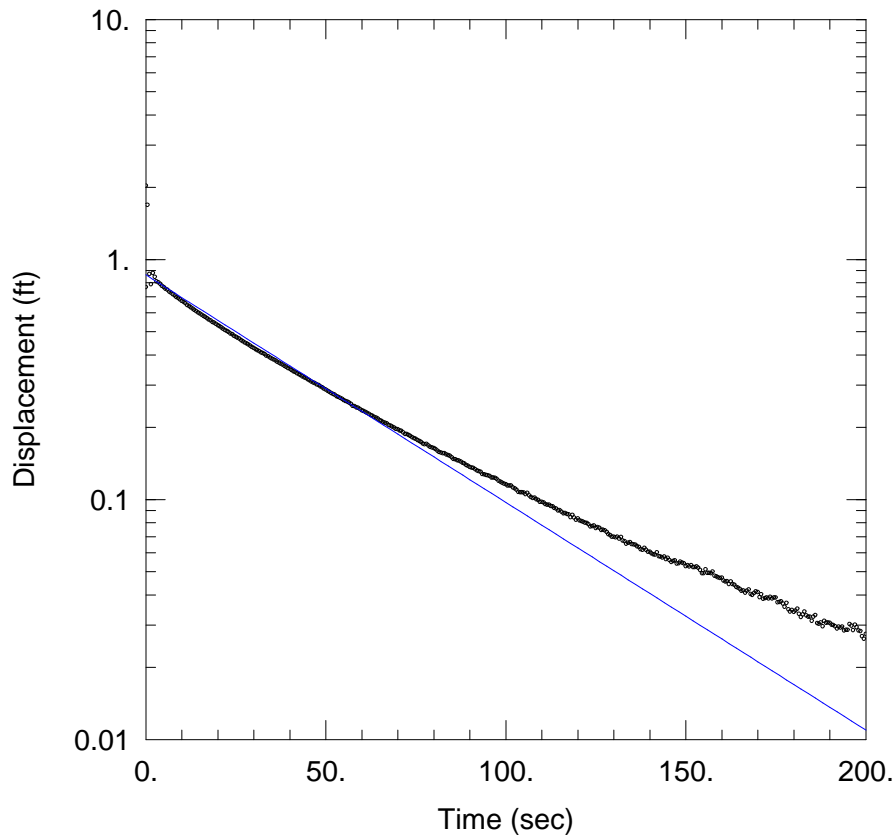
Saturated Thickness: 9 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (74-75)

Initial Displacement: 0.7656 ft
 Total Well Penetration Depth: 7.5 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 65.92 ft
 Screen Length: 5 ft
 Well Radius: 0.3542 ft



74-75 RISING HEAD TEST 5

Data Set: N:\...\74-75-RH5.aqt
 Date: 05/10/13 Time: 09:14:05

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 74-75
 Test Date: February 5, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001311$ cm/sec
 $y_0 = 0.8632$ ft

AQUIFER DATA

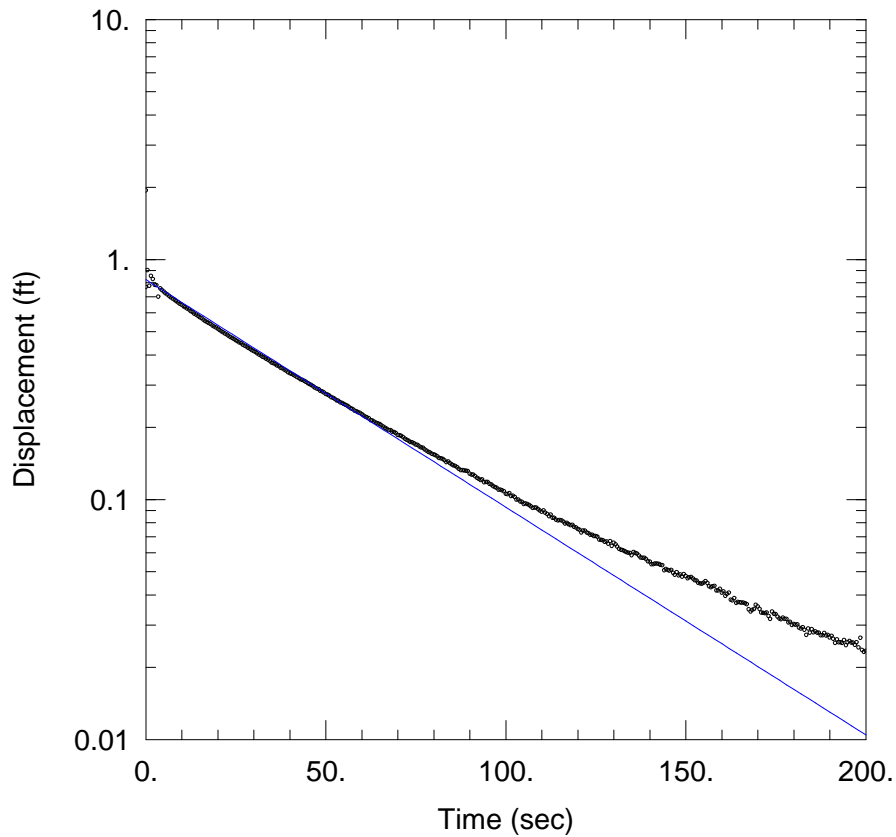
Saturated Thickness: 9 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (74-75)

Initial Displacement: 0.7656 ft
 Total Well Penetration Depth: 7.5 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 65.92 ft
 Screen Length: 5 ft
 Well Radius: 0.3542 ft



74-75 RISING HEAD TEST 6

Data Set: N:\...\74-75-RH6.aqt
 Date: 05/10/13 Time: 09:13:51

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 74-75
 Test Date: February 5, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001311$ cm/sec
 $y_0 = 0.8244$ ft

AQUIFER DATA

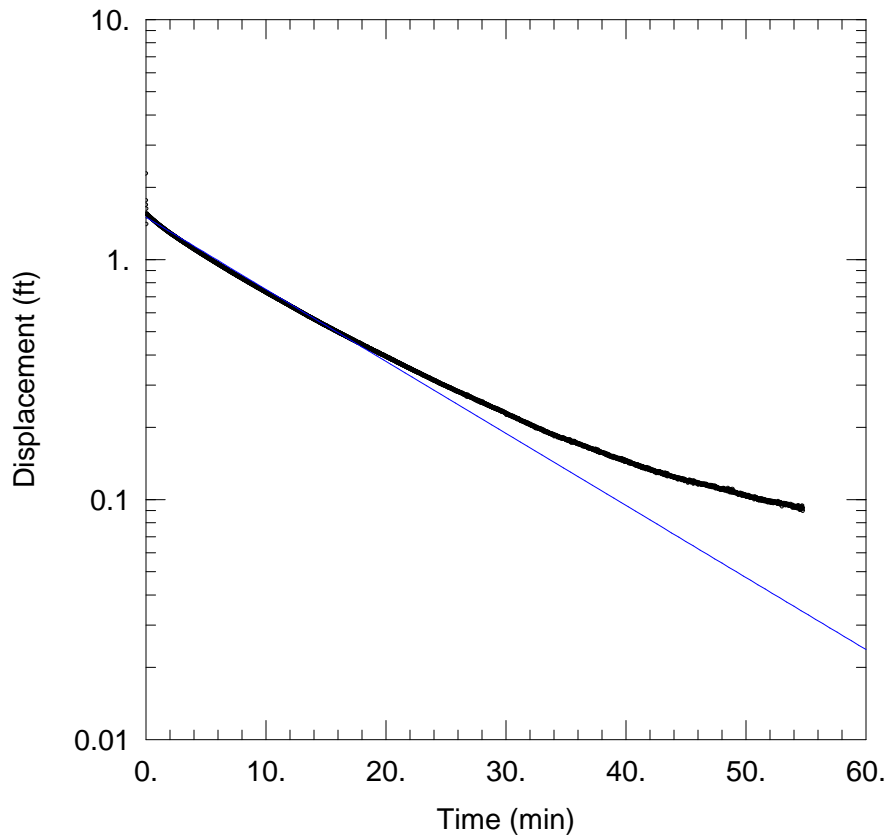
Saturated Thickness: 9 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (74-75)

Initial Displacement: 0.7656 ft
 Total Well Penetration Depth: 7.5 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 65.92 ft
 Screen Length: 5 ft
 Well Radius: 0.3542 ft



75-130 FALLING HEAD TEST 1

Data Set: N:\...\75-130-FH1.aqt
 Date: 05/06/13 Time: 16:17:53

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 75-130
 Test Date: February 13, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0001146$ cm/sec
 $y_0 = 1.5$ ft

AQUIFER DATA

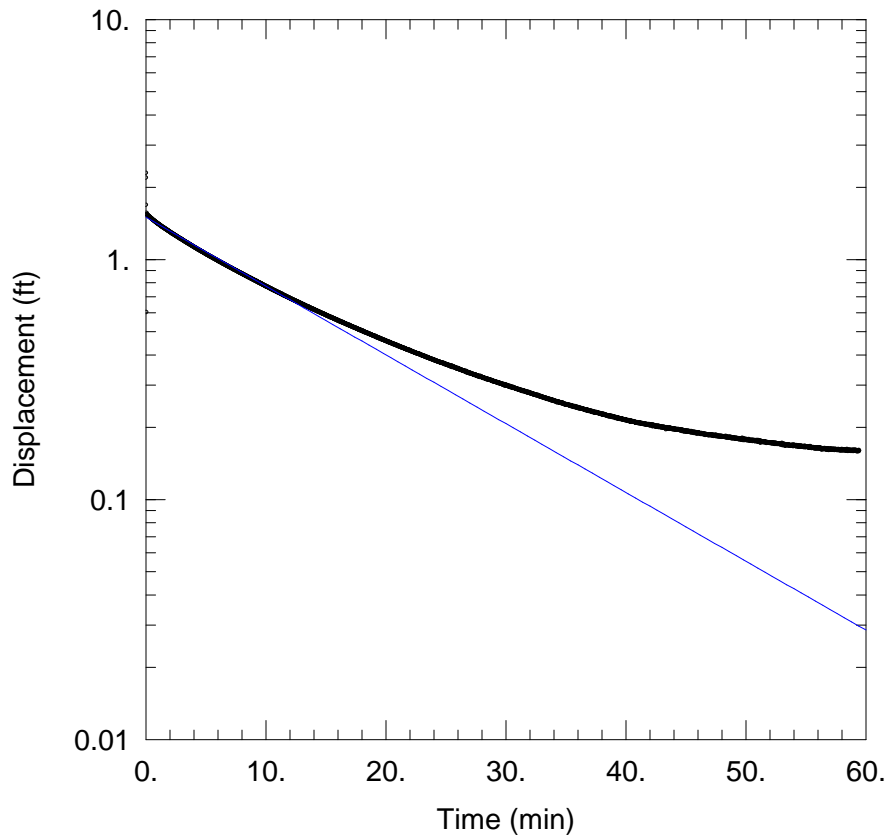
Saturated Thickness: 5.54 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (75-130)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 5.54 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 118.7 ft
 Screen Length: 3.04 ft
 Well Radius: 0.3542 ft



75-130 FALLING HEAD TEST 2

Data Set: N:\...\75-130-FH2.aqt
 Date: 05/06/13 Time: 16:17:34

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 75-130
 Test Date: February 18, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.0001095 cm/sec
 y0 = 1.5 ft

AQUIFER DATA

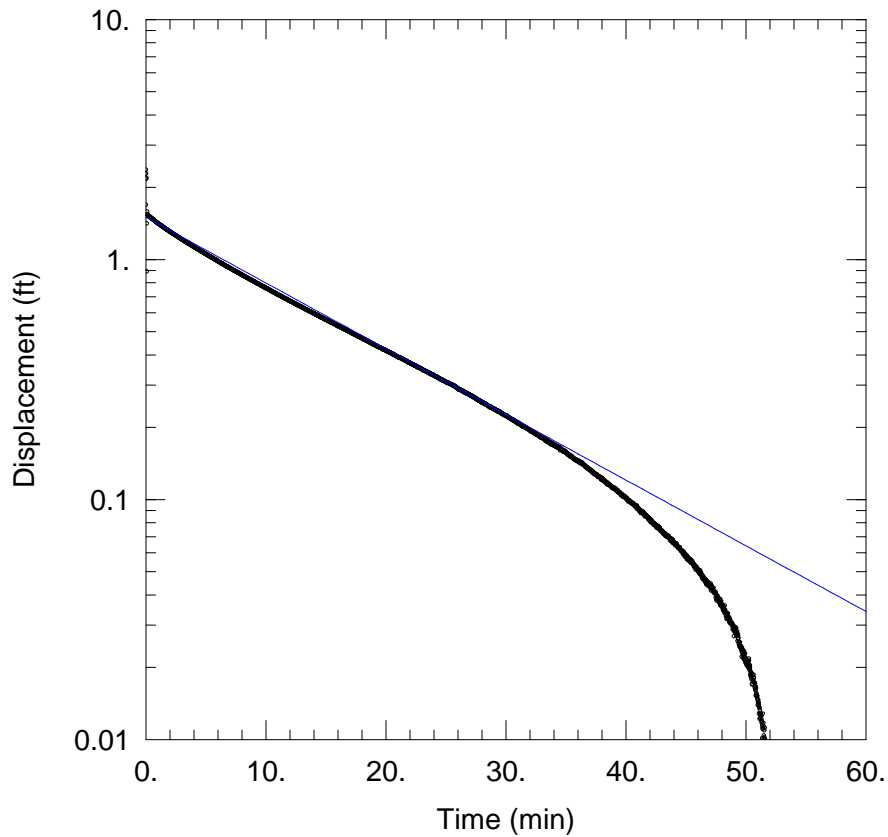
Saturated Thickness: 5.54 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (75-130)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 5.54 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 118.7 ft
 Screen Length: 3.04 ft
 Well Radius: 0.3542 ft



75-130 FALLING HEAD TEST 3

Data Set: N:\...\75-130-FH3.aqt
 Date: 05/06/13 Time: 16:17:16

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 75-130
 Test Date: February 18, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.0001046 cm/sec
 y0 = 1.5 ft

AQUIFER DATA

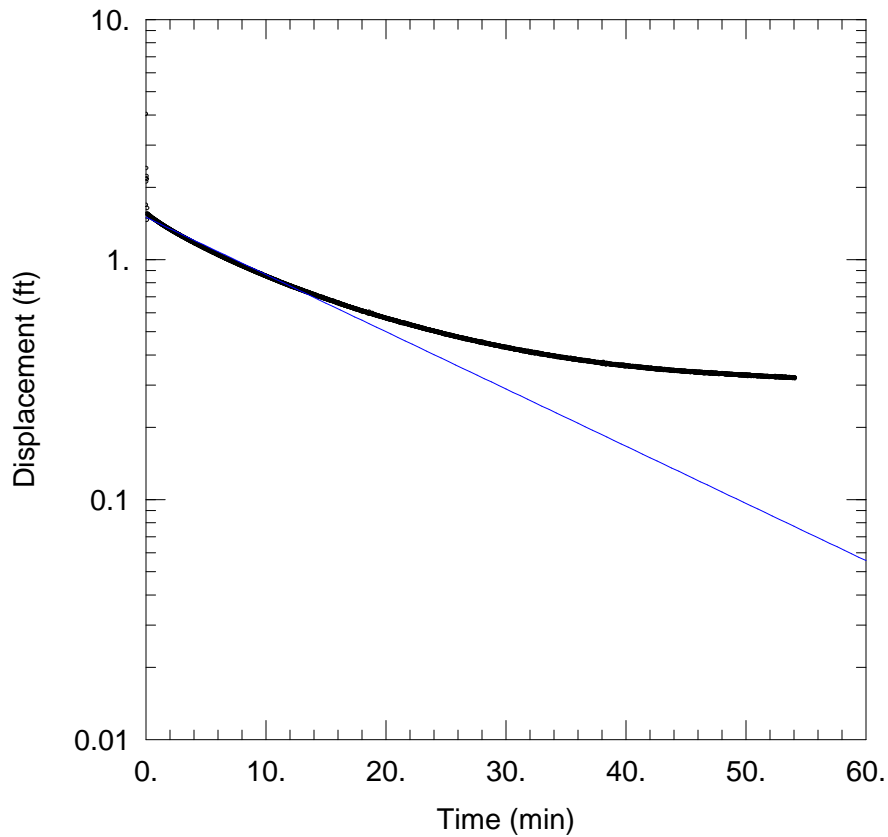
Saturated Thickness: 5.54 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (75-130)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 5.54 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 118.7 ft
 Screen Length: 3.04 ft
 Well Radius: 0.3542 ft



75-130 FALLING HEAD TEST 4

Data Set: N:\...\75-130-FH4.aqt
 Date: 05/06/13 Time: 16:17:00

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 75-130
 Test Date: February 19, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 9.107E-5$ cm/sec
 $y_0 = 1.5$ ft

AQUIFER DATA

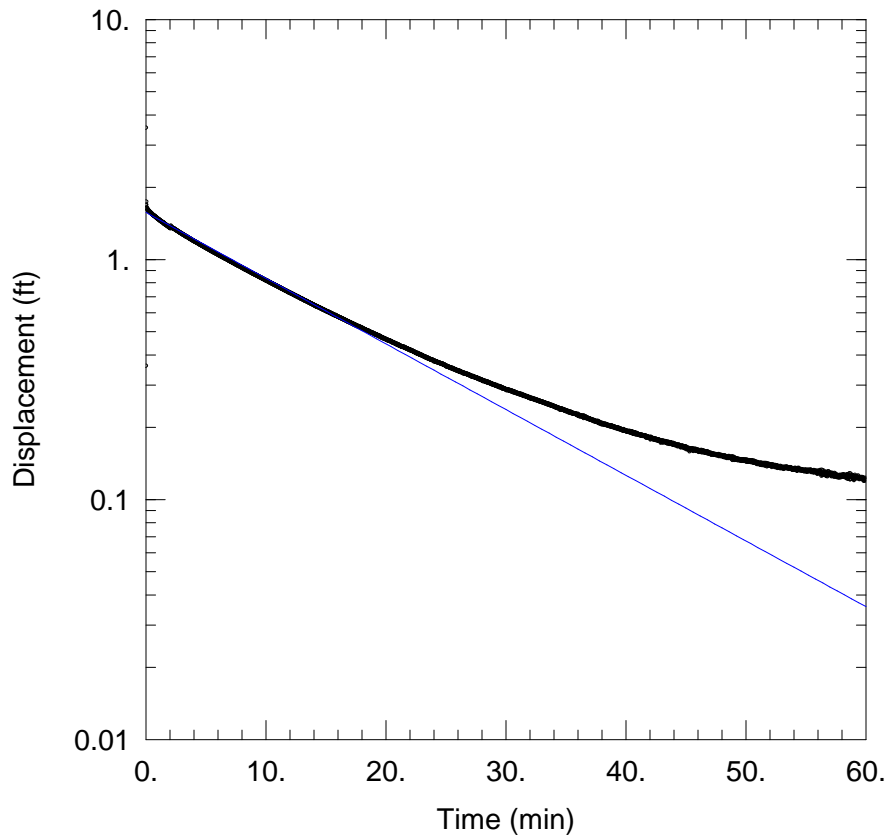
Saturated Thickness: 5.54 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (75-130)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 5.54 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 118.7 ft
 Screen Length: 3.04 ft
 Well Radius: 0.3542 ft



75-130 RISING HEAD TEST 1

Data Set: N:\...\75-130-RH1.aqt
 Date: 05/06/13 Time: 16:16:46

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 75-130
 Test Date: February 18, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0001046$ cm/sec
 $y_0 = 1.571$ ft

AQUIFER DATA

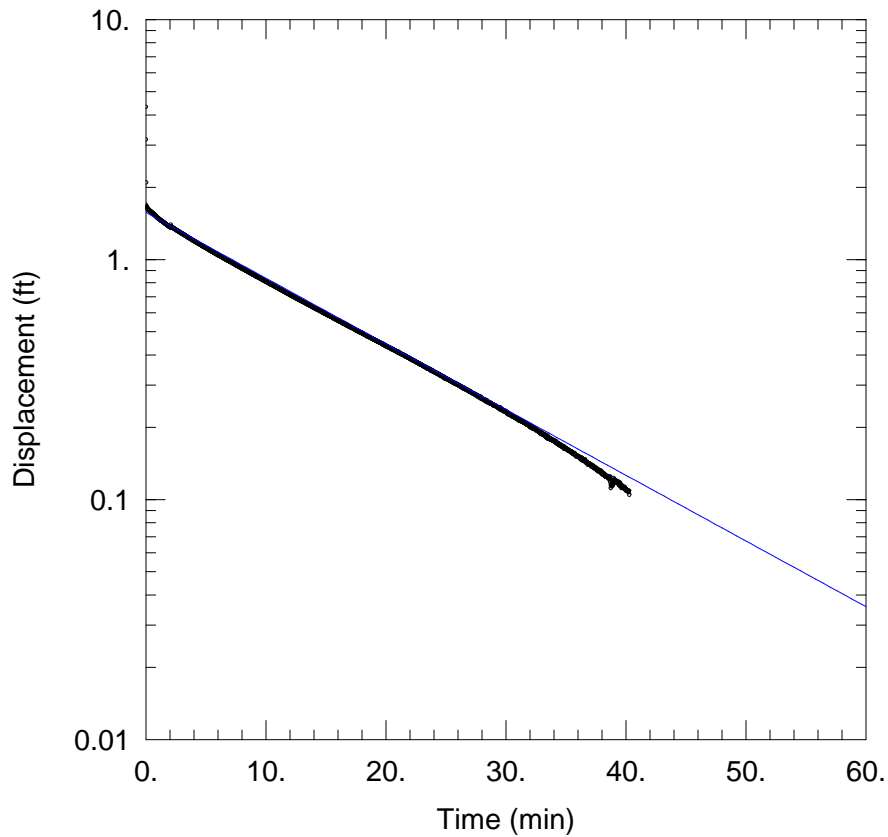
Saturated Thickness: 5.54 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (75-130)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 5.54 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 118.7 ft
 Screen Length: 3.04 ft
 Well Radius: 0.3542 ft



75-130 RISING HEAD TEST 2

Data Set: N:\...\75-130-RH2.aqt
 Date: 05/06/13 Time: 16:16:30

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 75-130
 Test Date: February 19, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0001046$ cm/sec
 $y_0 = 1.571$ ft

AQUIFER DATA

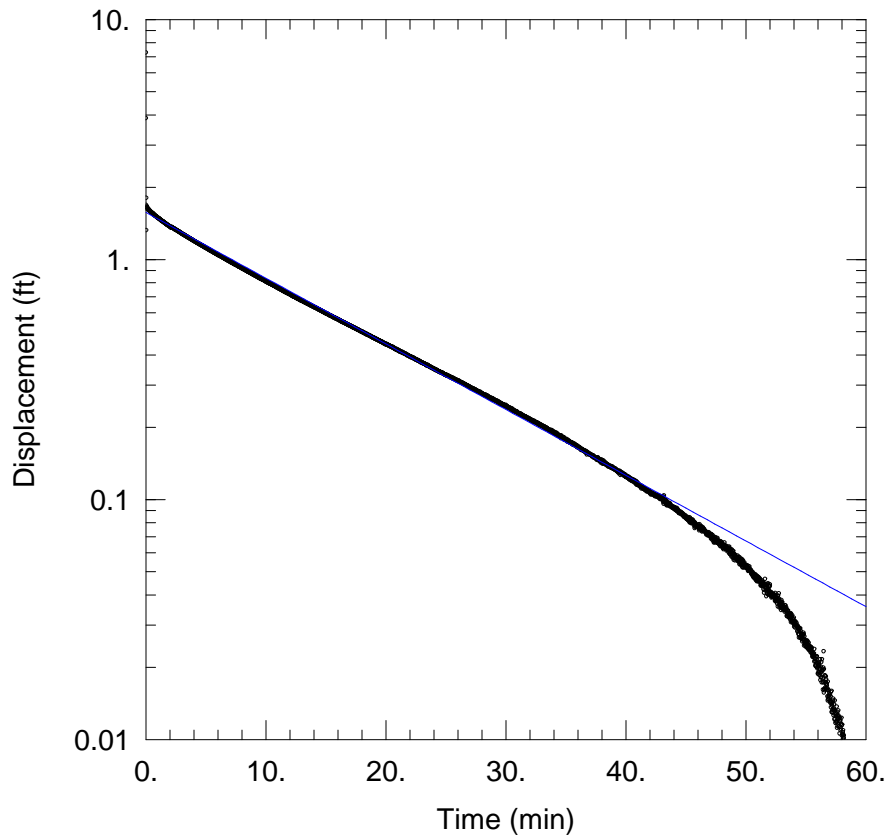
Saturated Thickness: 5.54 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (75-130)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 5.54 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 118.7 ft
 Screen Length: 3.04 ft
 Well Radius: 0.3542 ft



75-130 RISING HEAD TEST 3

Data Set: N:\...\75-130-RH3.aqt
 Date: 05/06/13 Time: 16:16:15

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 75-130
 Test Date: February 19, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0001046$ cm/sec
 $y_0 = 1.571$ ft

AQUIFER DATA

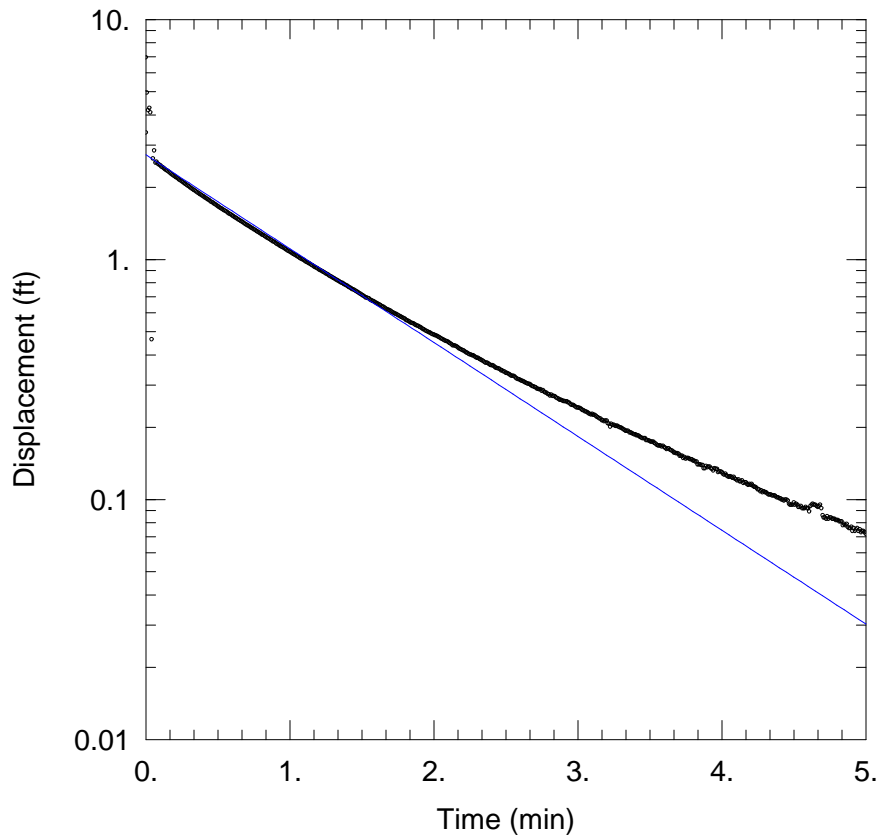
Saturated Thickness: 5.54 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (75-130)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 5.54 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 118.7 ft
 Screen Length: 3.04 ft
 Well Radius: 0.3542 ft



75-50 FALLING HEAD TEST 1

Data Set: N:\...\75-50-FH1.aqt

Date: 05/06/13

Time: 15:35:18

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 75-50

Test Date: February 24, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.002086$ cm/sec

$y_0 = 2.73$ ft

AQUIFER DATA

Saturated Thickness: 7.25 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (75-50)

Initial Displacement: 3.375 ft

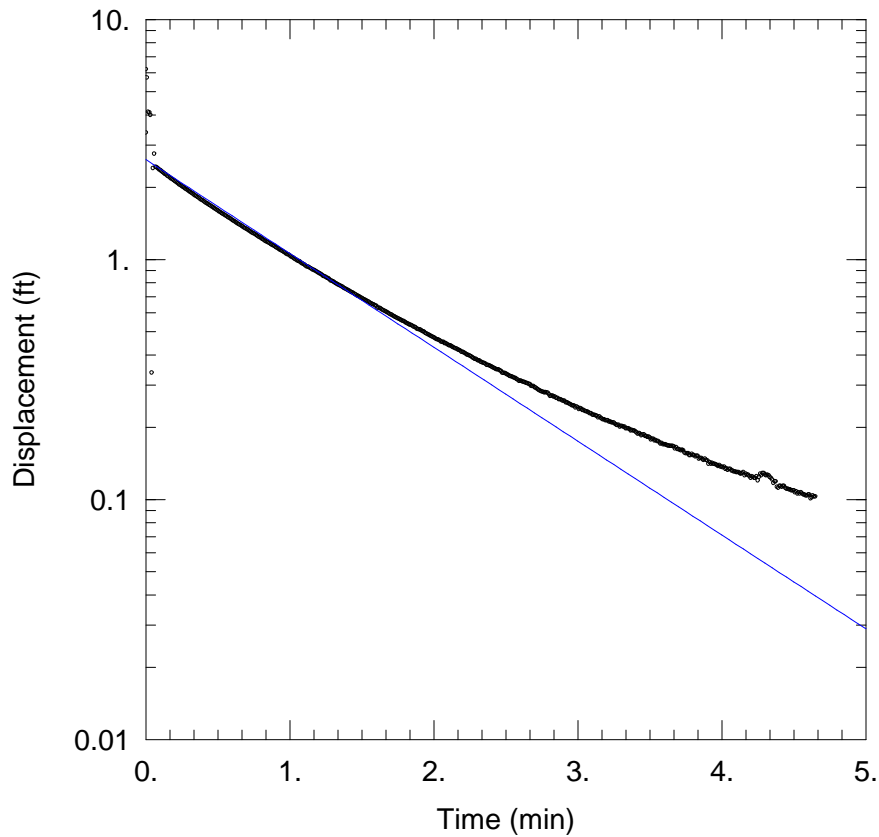
Total Well Penetration Depth: 7.25 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 37.04 ft

Screen Length: 2.25 ft

Well Radius: 0.333 ft



75-50 FALLING HEAD TEST 2

Data Set: N:\...\75-50-FH2.aqt

Date: 05/06/13

Time: 15:35:03

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 75-50

Test Date: February 24, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.002086 cm/sec

y0 = 2.607 ft

AQUIFER DATA

Saturated Thickness: 7.25 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (75-50)

Initial Displacement: 3.375 ft

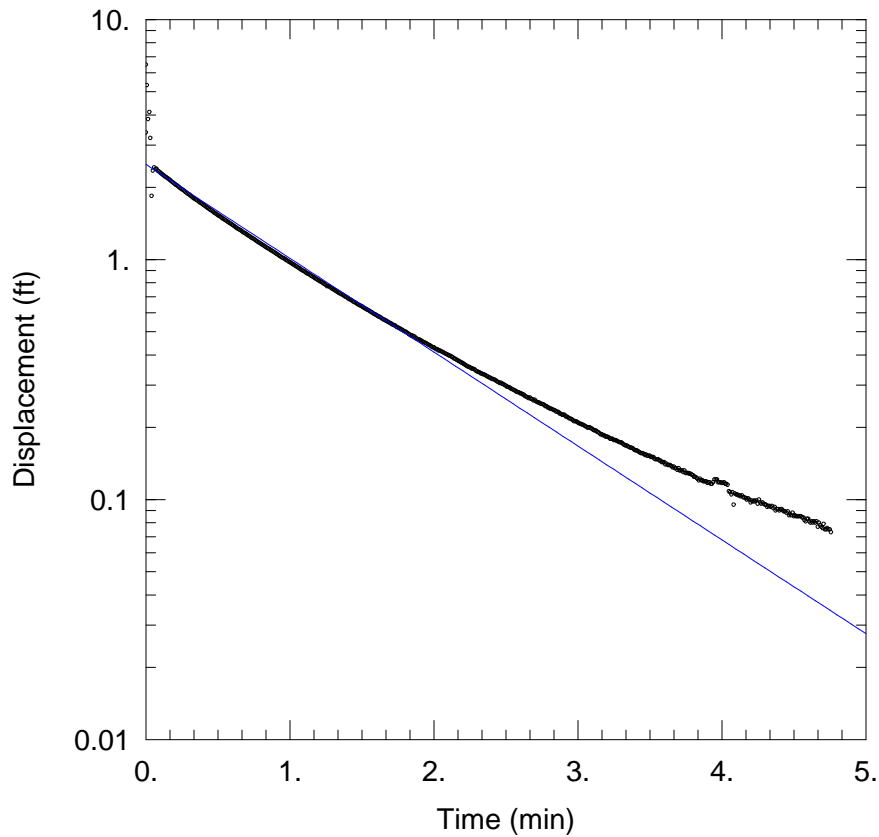
Total Well Penetration Depth: 7.25 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 37.04 ft

Screen Length: 2.25 ft

Well Radius: 0.333 ft



75-50 FALLING HEAD TEST 3

Data Set: N:\...\75-50-FH3.aqt

Date: 05/06/13

Time: 15:34:50

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 75-50

Test Date: February 24, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.002086$ cm/sec

$y_0 = 2.49$ ft

AQUIFER DATA

Saturated Thickness: 7.25 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (75-50)

Initial Displacement: 3.375 ft

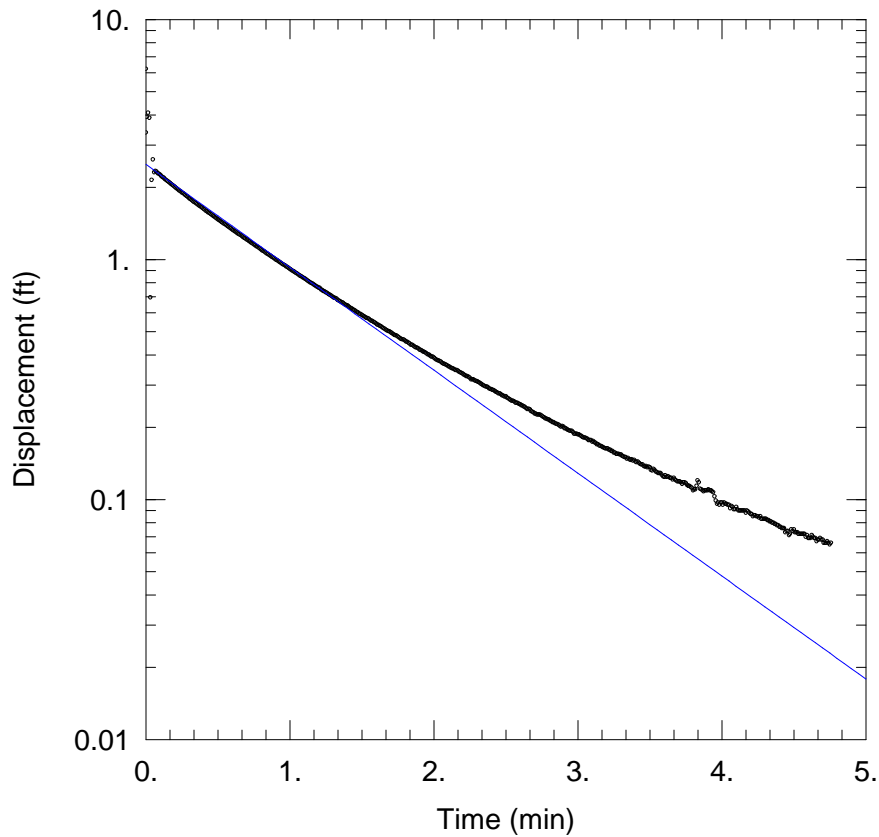
Total Well Penetration Depth: 7.25 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 37.04 ft

Screen Length: 2.25 ft

Well Radius: 0.333 ft



75-50 FALLING HEAD TEST 4

Data Set: N:\...\75-50-FH4.aqt

Date: 05/06/13

Time: 15:34:38

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 75-50

Test Date: February 24, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.002288 cm/sec

y0 = 2.49 ft

AQUIFER DATA

Saturated Thickness: 7.25 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (75-50)

Initial Displacement: 3.375 ft

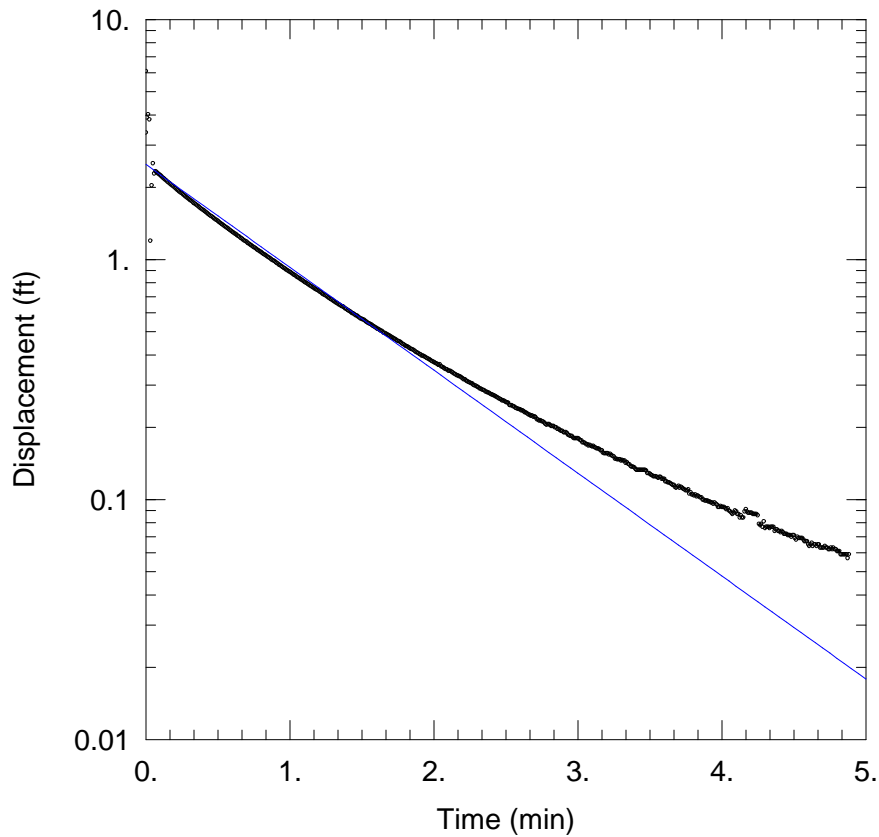
Total Well Penetration Depth: 7.25 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 37.04 ft

Screen Length: 2.25 ft

Well Radius: 0.333 ft



75-50 FALLING HEAD TEST 5

Data Set: N:\...\75-50-FH5.aqt

Date: 05/06/13

Time: 15:34:22

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 75-50

Test Date: February 24, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.002288$ cm/sec

$y_0 = 2.49$ ft

AQUIFER DATA

Saturated Thickness: 7.25 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (75-50)

Initial Displacement: 3.375 ft

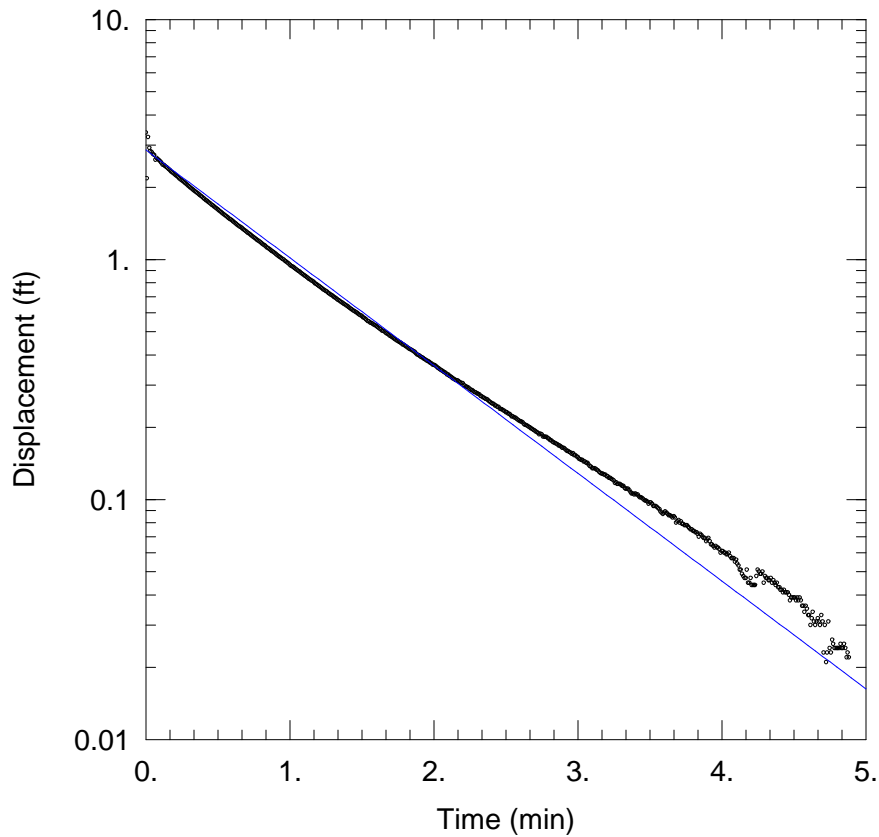
Total Well Penetration Depth: 7.25 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 37.04 ft

Screen Length: 2.25 ft

Well Radius: 0.333 ft



75-50 RISING HEAD TEST 1

Data Set: N:\...\75-50-RH1.aqt

Date: 05/06/13

Time: 15:43:10

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 75-50

Test Date: February 24, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.002395 cm/sec

y0 = 2.858 ft

AQUIFER DATA

Saturated Thickness: 7.25 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (75-50)

Initial Displacement: 3.375 ft

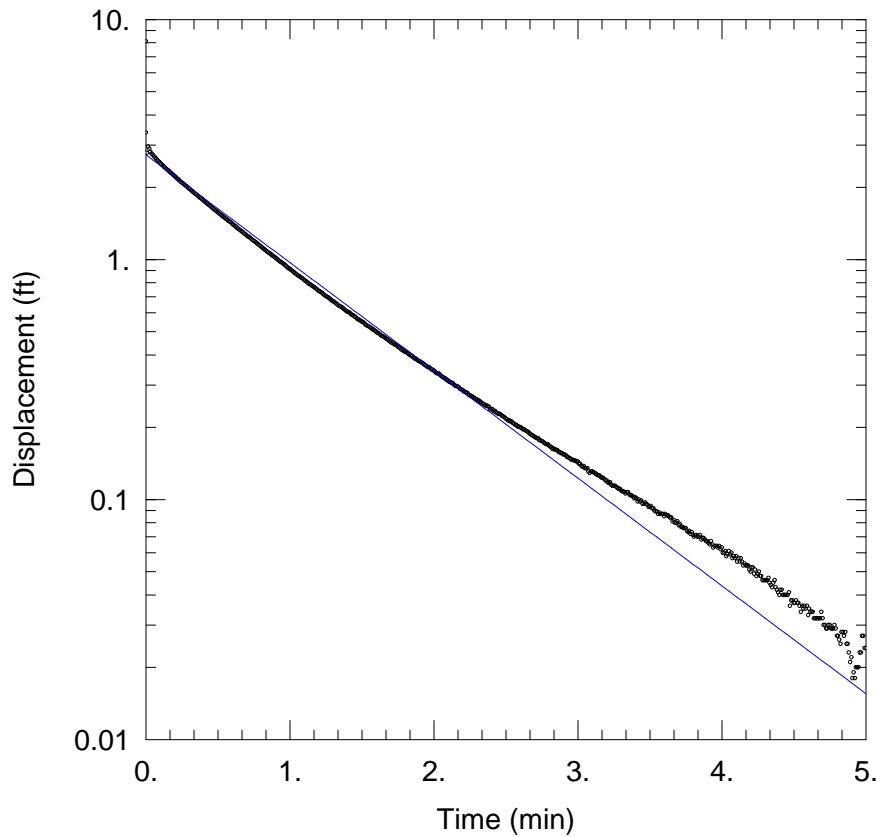
Total Well Penetration Depth: 7.25 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 37.04 ft

Screen Length: 2.25 ft

Well Radius: 0.333 ft



75-50 RISING HEAD TEST 2

Data Set: N:\...\75-50-RH2.aqt
 Date: 05/06/13 Time: 15:42:57

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 75-50
 Test Date: February 24, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.002395$ cm/sec
 $y_0 = 2.73$ ft

AQUIFER DATA

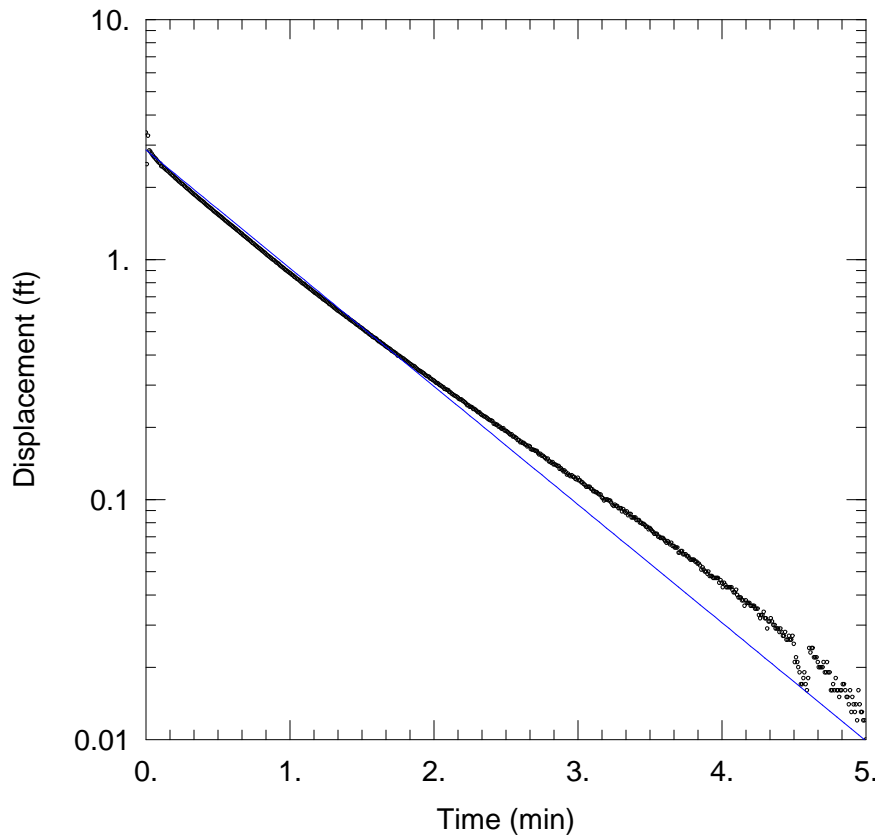
Saturated Thickness: 7.25 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (75-50)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7.25 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 37.04 ft
 Screen Length: 2.25 ft
 Well Radius: 0.333 ft



75-50 RISING HEAD TEST 3

Data Set: N:\...\75-50-RH3.aqt
 Date: 05/06/13 Time: 15:42:44

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 75-50
 Test Date: February 24, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.002626$ cm/sec
 $y_0 = 2.858$ ft

AQUIFER DATA

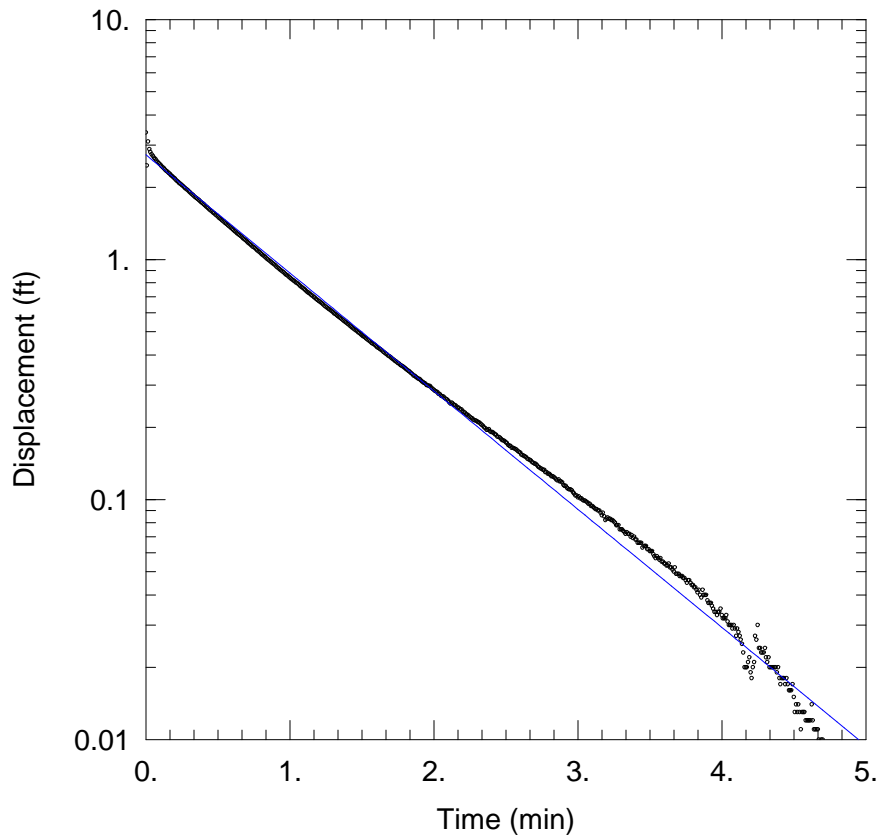
Saturated Thickness: 7.25 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (75-50)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7.25 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 37.04 ft
 Screen Length: 2.25 ft
 Well Radius: 0.333 ft



75-50 RISING HEAD TEST 4

Data Set: N:\...\75-50-RH4.aqt

Date: 05/06/13

Time: 15:42:31

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 75-50

Test Date: February 24, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.002626 cm/sec

y0 = 2.73 ft

AQUIFER DATA

Saturated Thickness: 7.25 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (75-50)

Initial Displacement: 3.375 ft

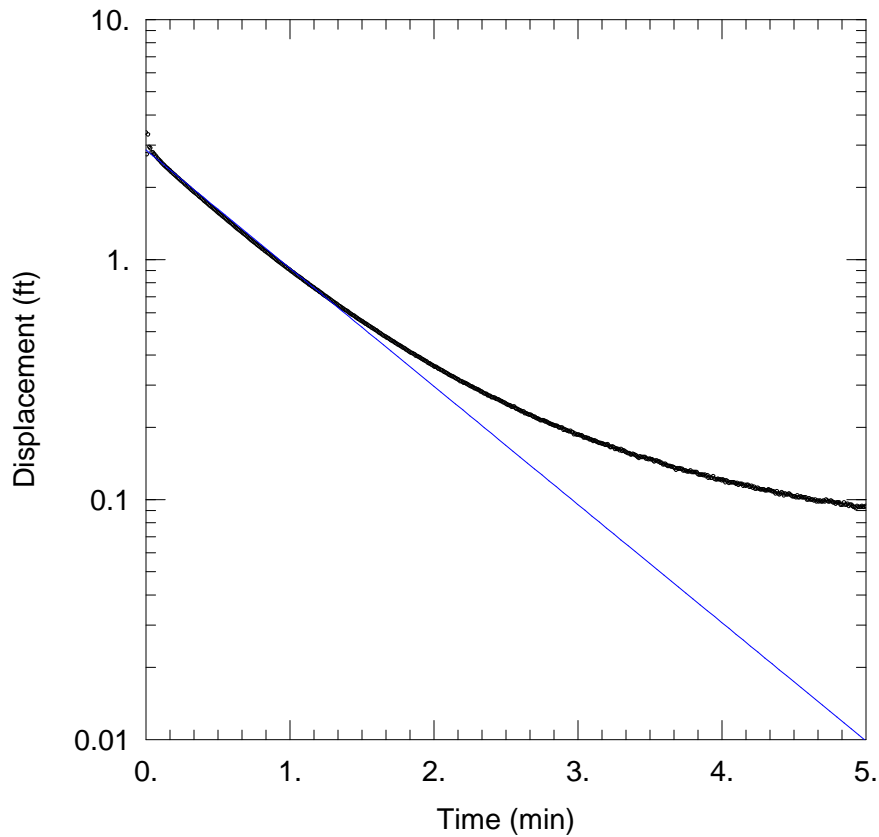
Total Well Penetration Depth: 7.25 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 37.04 ft

Screen Length: 2.25 ft

Well Radius: 0.333 ft



75-50 RISING HEAD TEST 5

Data Set: N:\...\75-50-RH5.aqt
 Date: 05/06/13 Time: 15:42:16

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 75-50
 Test Date: February 24, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.002626$ cm/sec
 $y_0 = 2.858$ ft

AQUIFER DATA

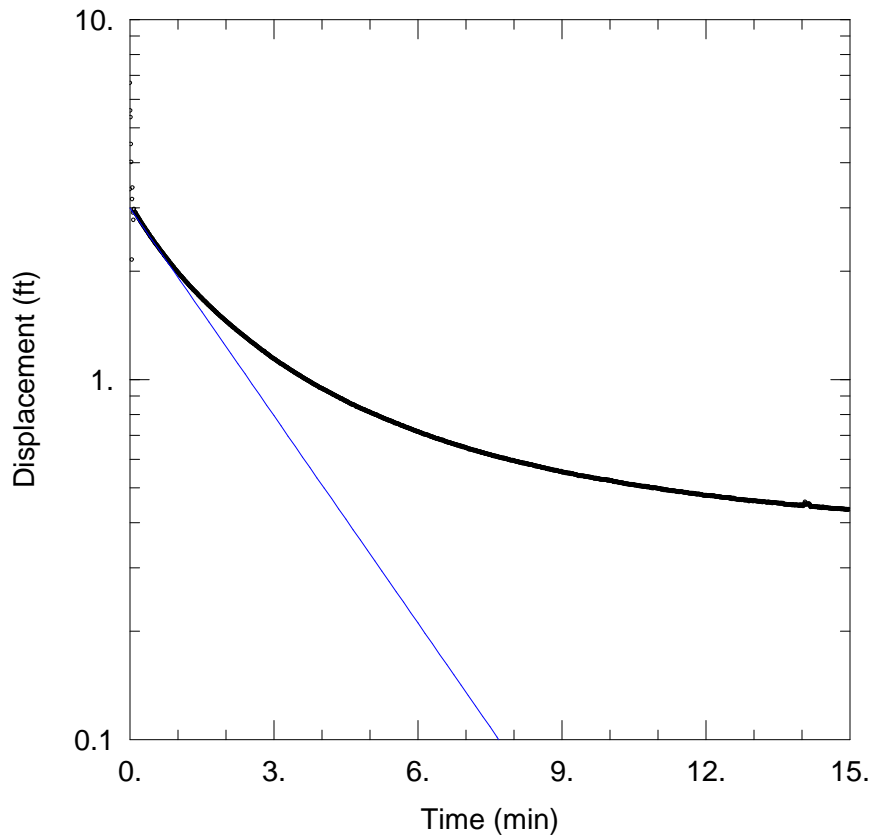
Saturated Thickness: 7.25 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (75-50)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7.25 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 37.04 ft
 Screen Length: 2.25 ft
 Well Radius: 0.333 ft



75-75 FALLING HEAD TEST 1

Data Set: N:\...\75-75-FH1.aqt
 Date: 05/13/13 Time: 14:18:58

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 75-75
 Test Date: February 24, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0004564$ cm/sec
 $y_0 = 2.993$ ft

AQUIFER DATA

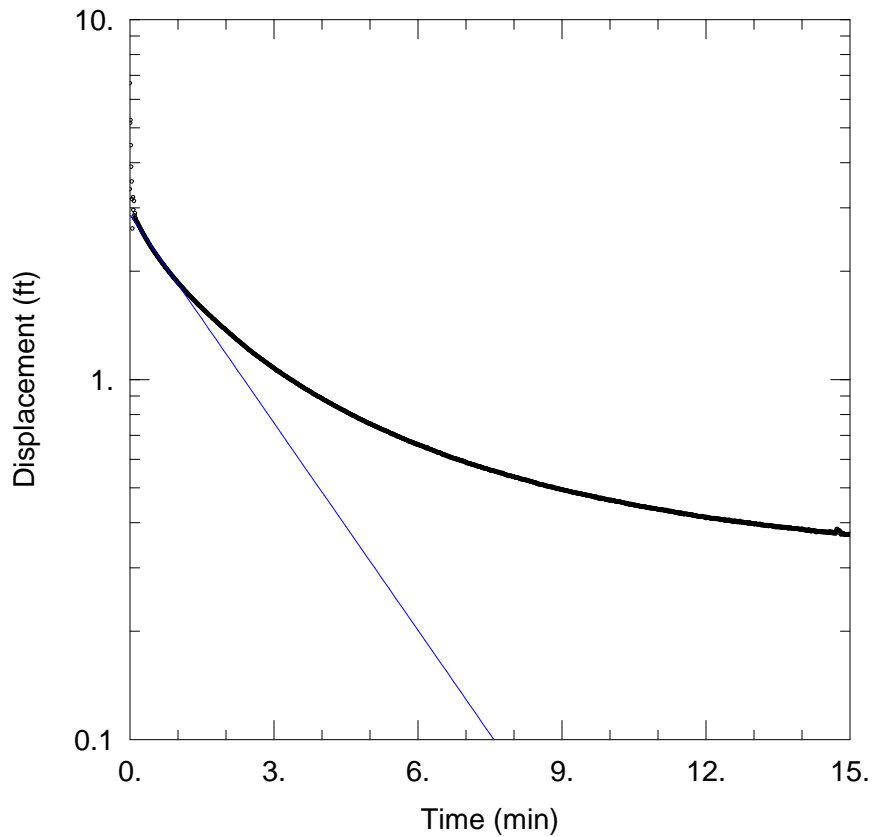
Saturated Thickness: 10.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (75-75)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 9. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 62.62 ft
 Screen Length: 5. ft
 Well Radius: 0.3542 ft



75-75 FALLING HEAD TEST 2

Data Set: N:\...\75-75-FH2.aqt

Date: 05/13/13

Time: 14:18:45

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 75-75

Test Date: February 24, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0004564 cm/sec

y0 = 2.858 ft

AQUIFER DATA

Saturated Thickness: 10.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (75-75)

Initial Displacement: 3.375 ft

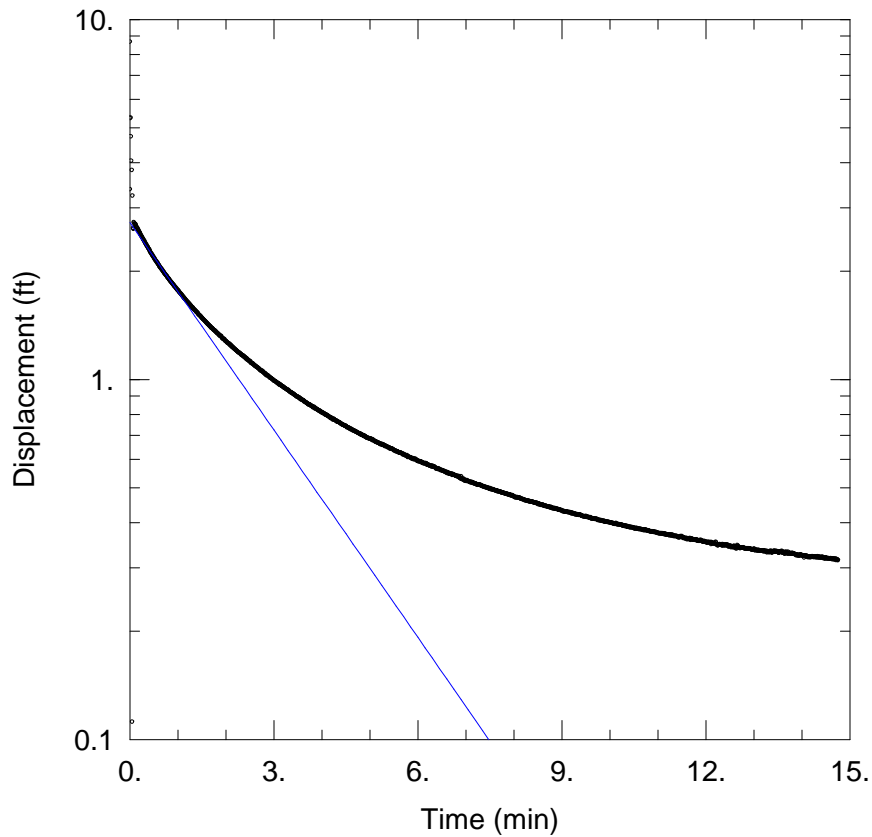
Total Well Penetration Depth: 9. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 62.62 ft

Screen Length: 5. ft

Well Radius: 0.3542 ft



75-75 FALLING HEAD TEST 3

Data Set: N:\...\75-75-FH3.aqt
 Date: 05/13/13 Time: 14:18:31

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 75-75
 Test Date: February 24, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0004564$ cm/sec
 $y_0 = 2.73$ ft

AQUIFER DATA

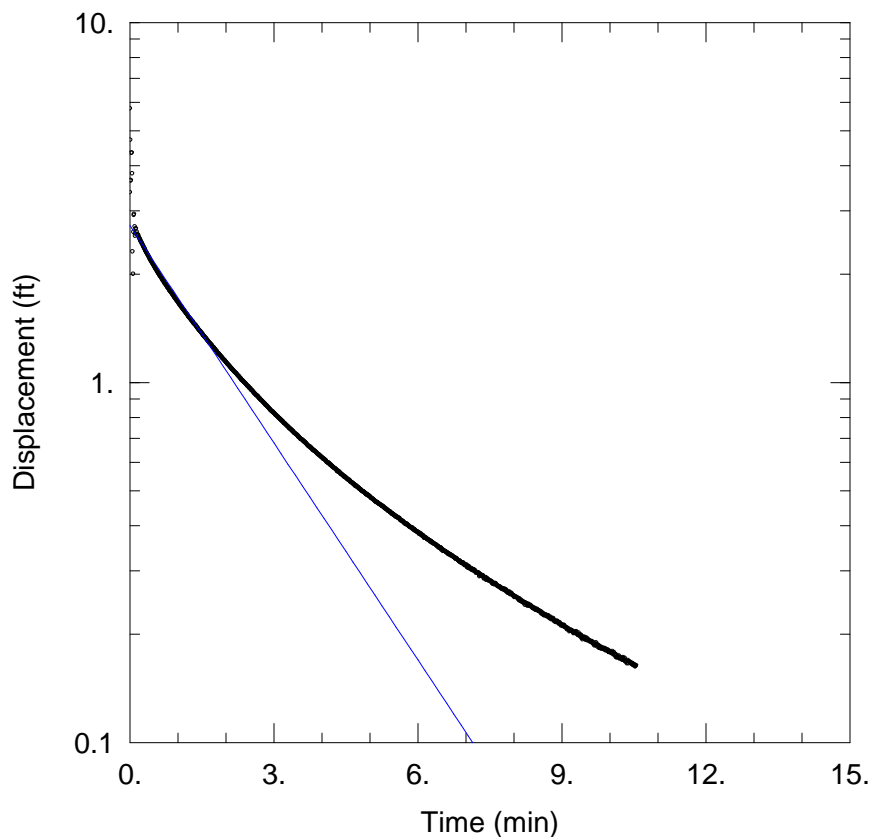
Saturated Thickness: 10.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (75-75)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 9. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 62.62 ft
 Screen Length: 5. ft
 Well Radius: 0.3542 ft



75-75 FALLING HEAD TEST 4

Data Set: N:\...\75-75-FH4.aqt

Date: 05/13/13

Time: 14:18:18

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 75-75

Test Date: March 4, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0004779 cm/sec

y0 = 2.73 ft

AQUIFER DATA

Saturated Thickness: 10.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (75-75)

Initial Displacement: 3.375 ft

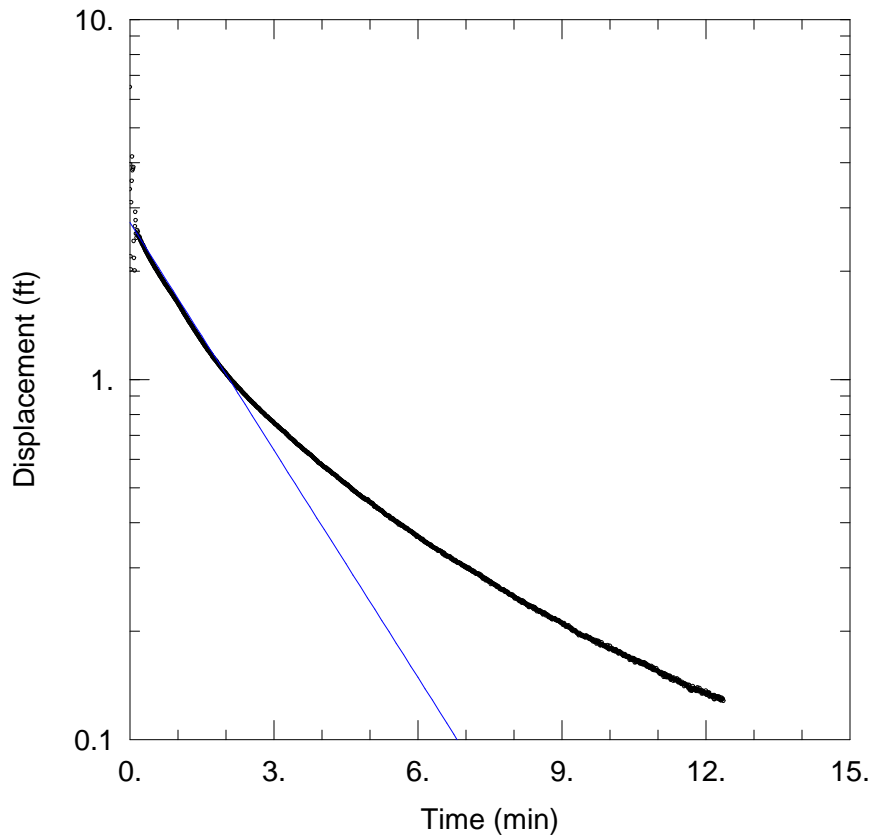
Total Well Penetration Depth: 9. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 62.62 ft

Screen Length: 5. ft

Well Radius: 0.3542 ft



75-75 FALLING HEAD TEST 5

Data Set: N:\...\75-75-FH5.aqt
 Date: 05/13/13 Time: 14:18:05

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 75-75
 Test Date: March 4, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0005005$ cm/sec
 $y_0 = 2.73$ ft

AQUIFER DATA

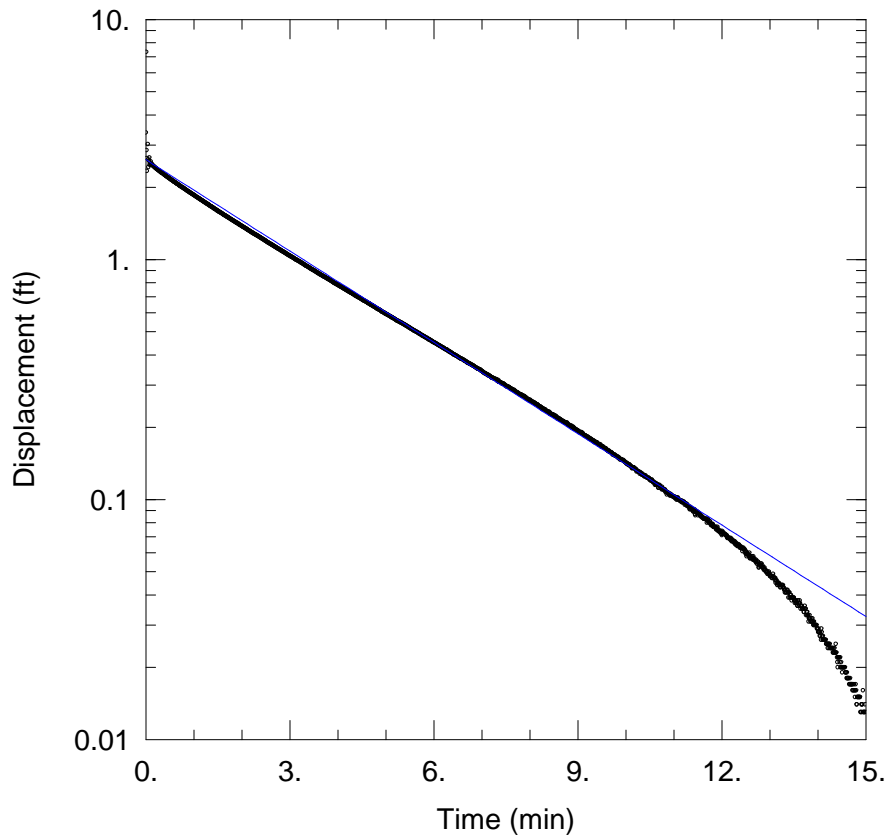
Saturated Thickness: 10.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (75-75)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 9. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 62.42 ft
 Screen Length: 5. ft
 Well Radius: 0.3542 ft



75-75 RISING HEAD TEST 1

Data Set: N:\...\75-75-RH1.aqt
 Date: 05/13/13 Time: 14:17:53

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 75-75
 Test Date: February 24, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0003016$ cm/sec
 $y_0 = 2.607$ ft

AQUIFER DATA

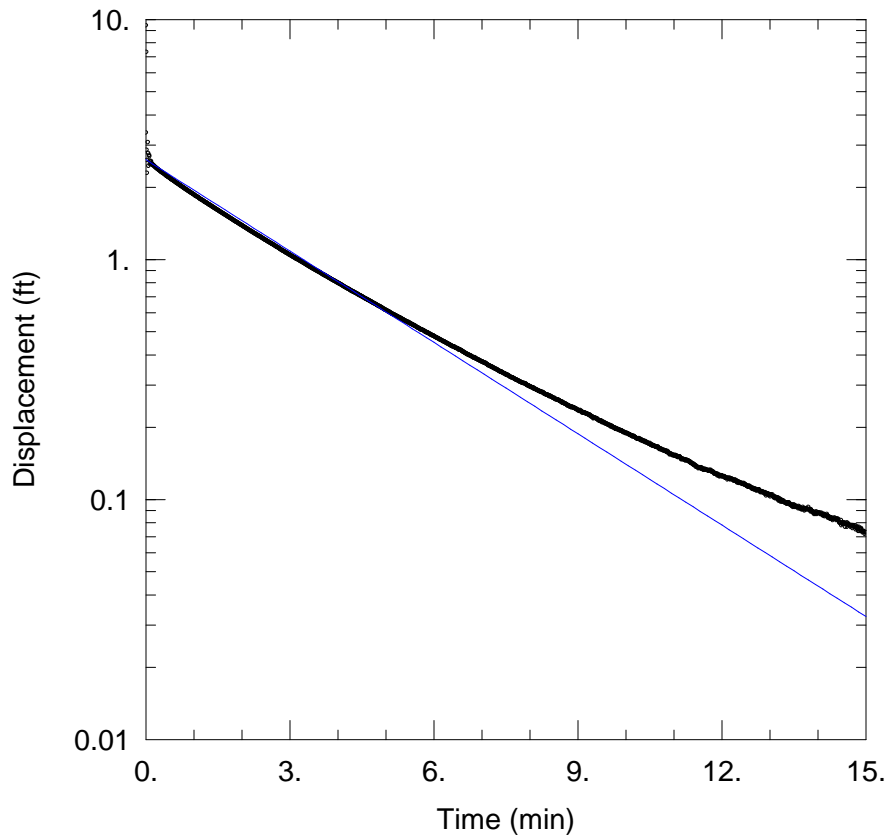
Saturated Thickness: 10.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (75-75)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 9. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 62.62 ft
 Screen Length: 5. ft
 Well Radius: 0.3542 ft



75-75 RISING HEAD TEST 2

Data Set: N:\...\75-75-RH2.aqt
 Date: 05/13/13 Time: 14:17:35

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 75-75
 Test Date: February 24, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0003016$ cm/sec
 $y_0 = 2.607$ ft

AQUIFER DATA

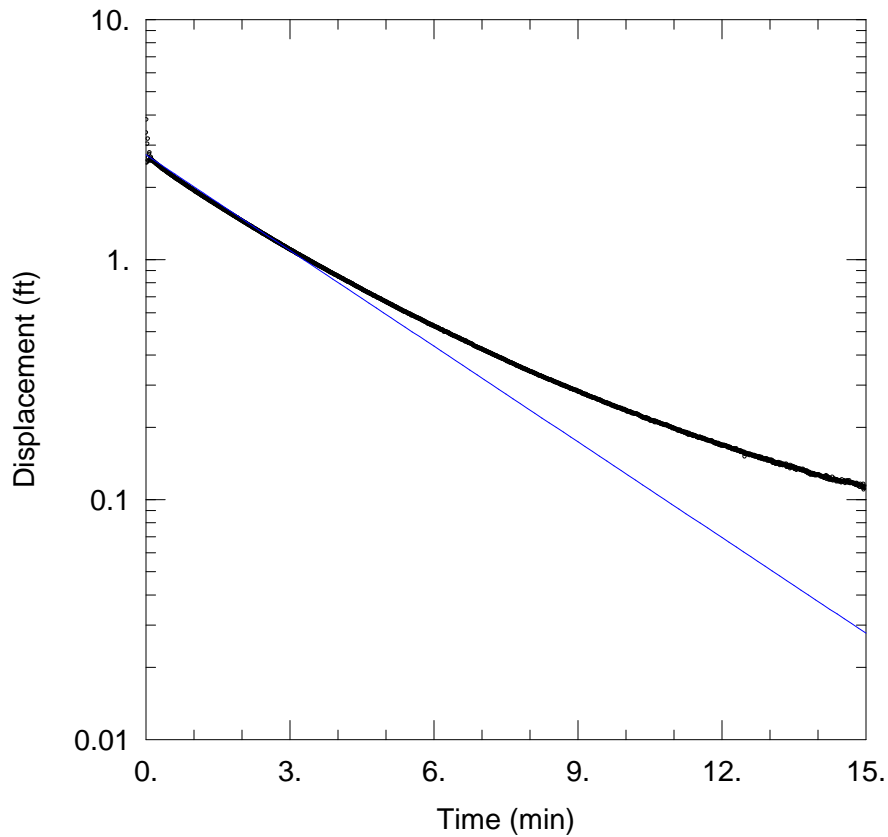
Saturated Thickness: 10.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (75-75)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 9. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 62.62 ft
 Screen Length: 5. ft
 Well Radius: 0.3542 ft



75-75 RISING HEAD TEST 3

Data Set: N:\...\75-75-RH3.aqt
 Date: 05/13/13 Time: 14:17:18

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 75-75
 Test Date: February 24, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0003158$ cm/sec
 $y_0 = 2.73$ ft

AQUIFER DATA

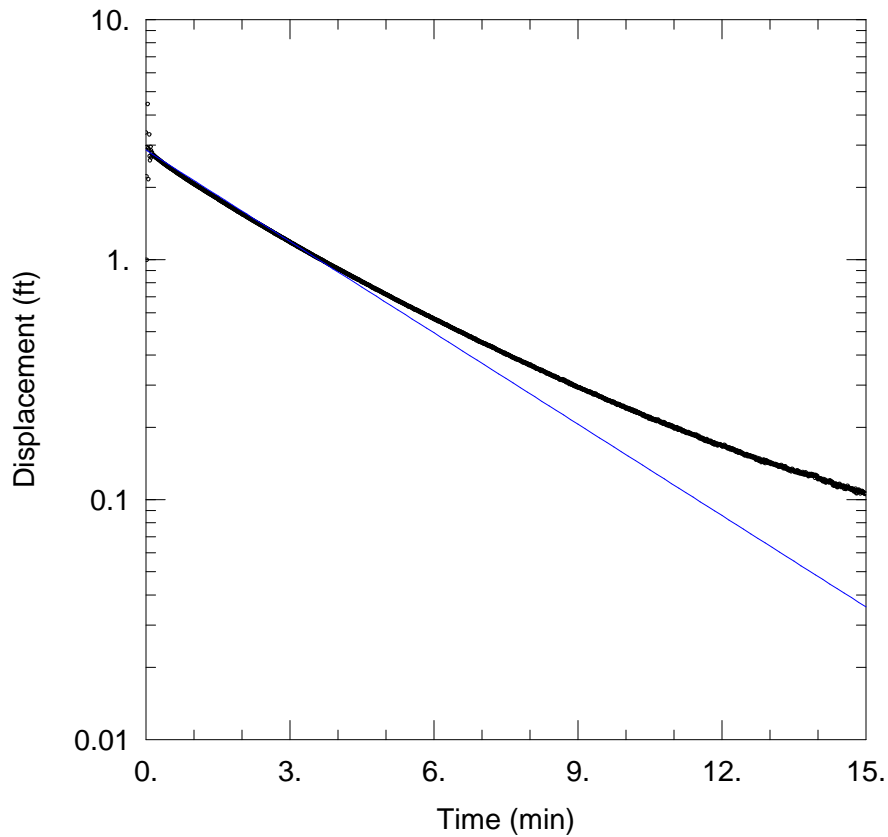
Saturated Thickness: 10.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (75-75)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 9. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 62.62 ft
 Screen Length: 5. ft
 Well Radius: 0.3542 ft



75-75 RISING HEAD TEST 4

Data Set: N:\...\75-75-RH4.aqt
 Date: 05/13/13 Time: 14:17:02

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 75-75
 Test Date: March 4, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0003016$ cm/sec
 $y_0 = 2.858$ ft

AQUIFER DATA

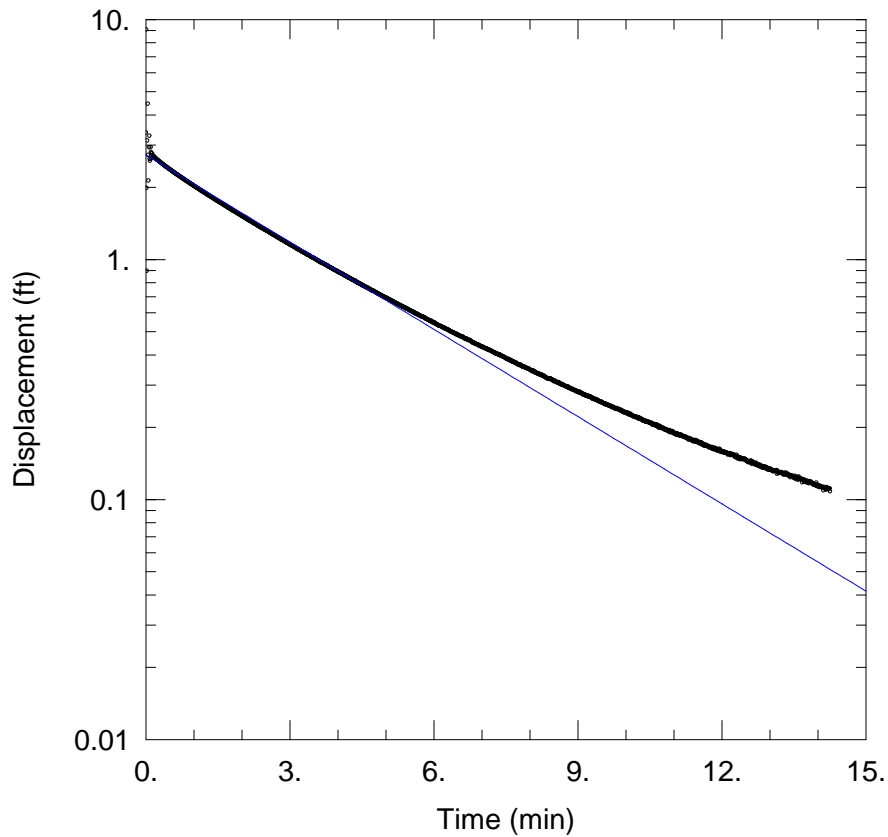
Saturated Thickness: 10.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (75-75)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 9. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 62.52 ft
 Screen Length: 5. ft
 Well Radius: 0.3542 ft



75-75 RISING HEAD TEST 5

Data Set: N:\...\75-75-RH5.aqt

Date: 05/13/13

Time: 14:16:45

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 75-75

Test Date: March 4, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.000288$ cm/sec

$y_0 = 2.73$ ft

AQUIFER DATA

Saturated Thickness: 10.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (75-75)

Initial Displacement: 3.375 ft

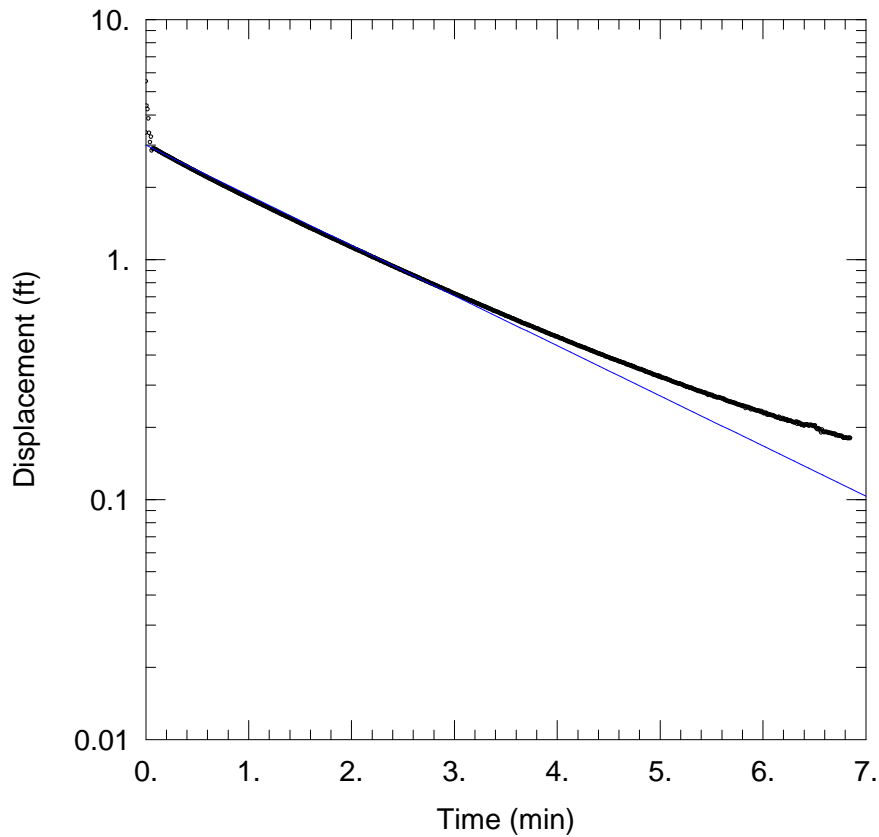
Total Well Penetration Depth: 9. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 62.52 ft

Screen Length: 5. ft

Well Radius: 0.3542 ft



81-50 FALLING HEAD TEST 1

Data Set: N:\...\81-50-FH1.aqt

Date: 05/10/13

Time: 10:01:24

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 81-50

Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.0005005$ cm/sec

$y_0 = 2.993$ ft

AQUIFER DATA

Saturated Thickness: 11. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (81-50)

Initial Displacement: 3.375 ft

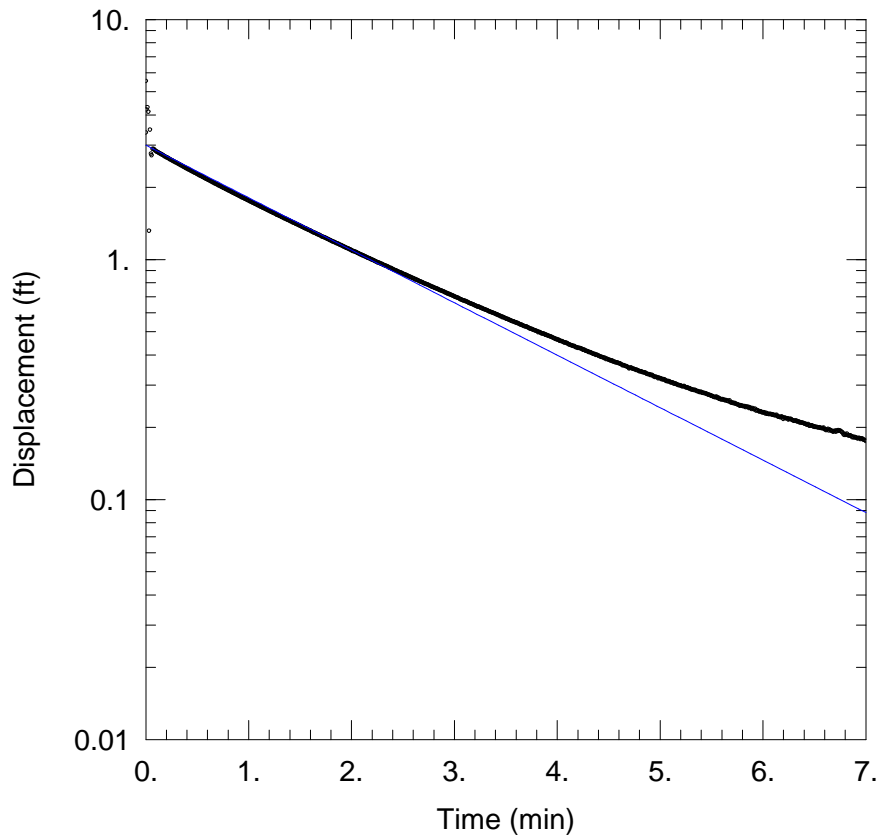
Total Well Penetration Depth: 9. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 39.31 ft

Screen Length: 5. ft

Well Radius: 0.333 ft



81-50 FALLING HEAD TEST 2

Data Set: N:\...\81-50-FH2.aqt

Date: 05/10/13

Time: 10:01:12

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 81-50

Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.000524$ cm/sec

$y_0 = 2.993$ ft

AQUIFER DATA

Saturated Thickness: 11. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (81-50)

Initial Displacement: 3.375 ft

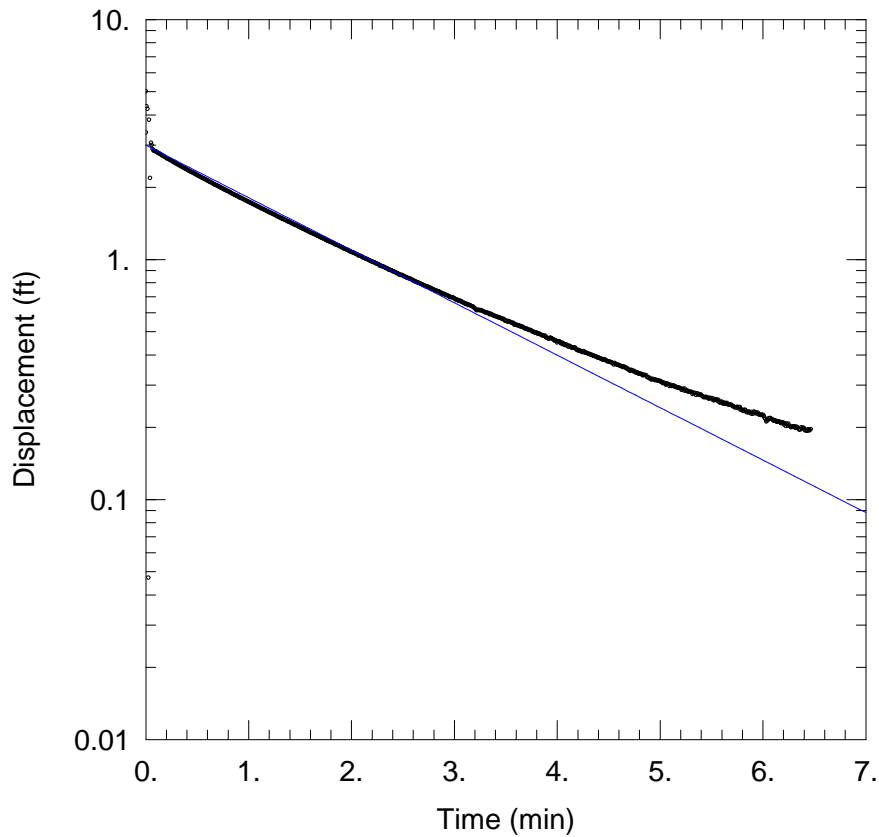
Total Well Penetration Depth: 9. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 39.31 ft

Screen Length: 5. ft

Well Radius: 0.333 ft



81-50 FALLING HEAD TEST 3

Data Set: N:\...\81-50-FH3.aqt

Date: 05/10/13

Time: 10:00:59

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 81-50

Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.000524 cm/sec

y0 = 2.993 ft

AQUIFER DATA

Saturated Thickness: 11. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (81-50)

Initial Displacement: 3.375 ft

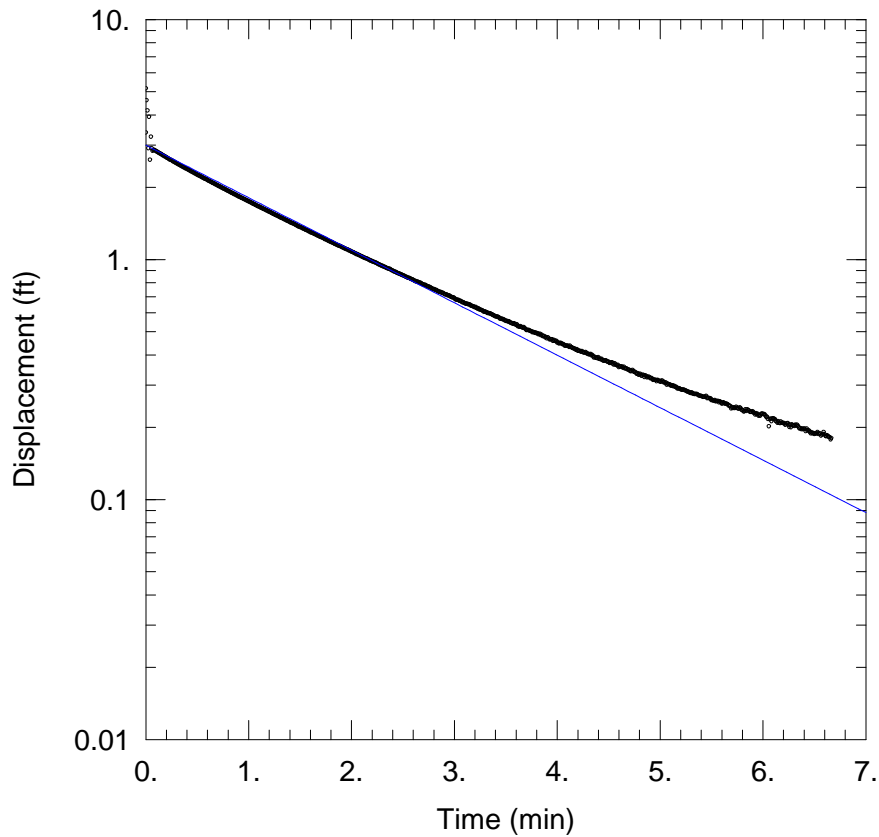
Total Well Penetration Depth: 9. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 39.31 ft

Screen Length: 5. ft

Well Radius: 0.333 ft



81-50 FALLING HEAD TEST 4

Data Set: N:\...\81-50-FH4.aqt

Date: 05/10/13

Time: 10:00:45

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 81-50

Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.000524$ cm/sec

$y_0 = 2.993$ ft

AQUIFER DATA

Saturated Thickness: 11. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (81-50)

Initial Displacement: 3.375 ft

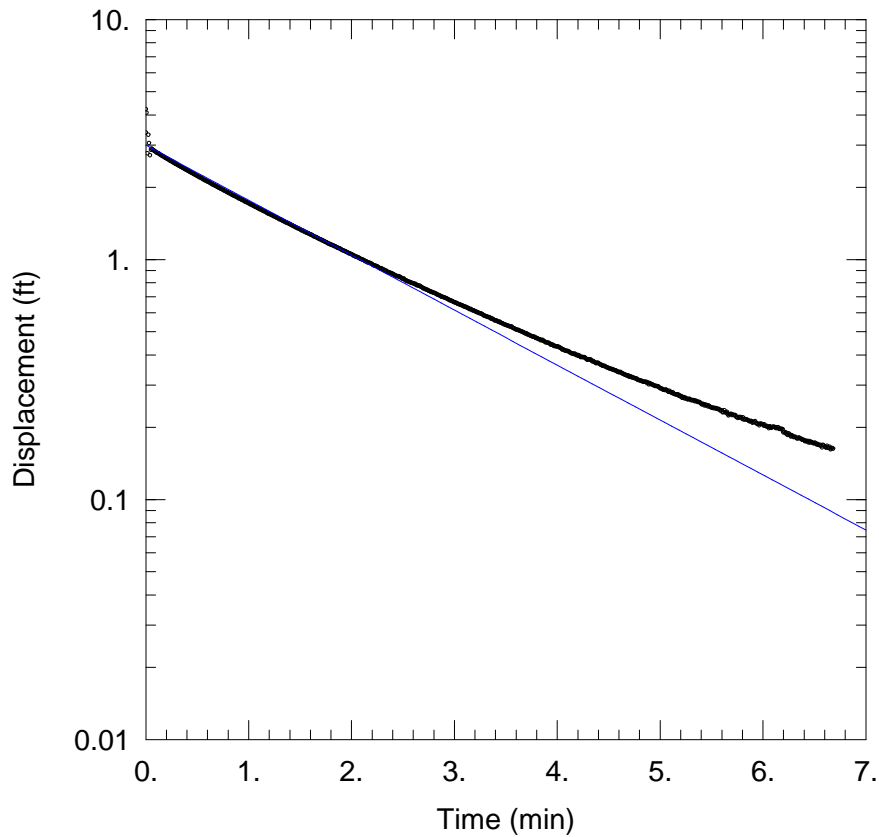
Total Well Penetration Depth: 9. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 39.31 ft

Screen Length: 5. ft

Well Radius: 0.333 ft



81-50 FALLING HEAD TEST 5

Data Set: N:\...\81-50-FH5.aqt

Date: 05/10/13

Time: 10:00:33

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 81-50

Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0005487 cm/sec

y0 = 2.993 ft

AQUIFER DATA

Saturated Thickness: 11. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (81-50)

Initial Displacement: 3.375 ft

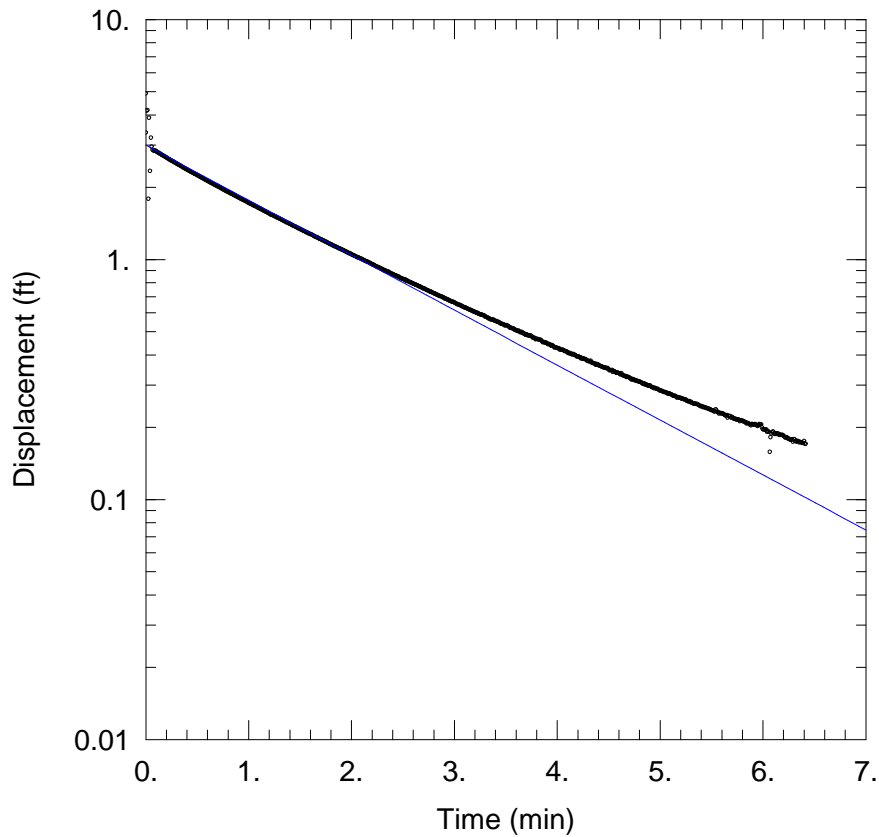
Total Well Penetration Depth: 9. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 39.31 ft

Screen Length: 5. ft

Well Radius: 0.333 ft



81-50 FALLING HEAD TEST 6

Data Set: N:\...\81-50-FH6.aqt

Date: 05/10/13

Time: 10:00:16

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 81-50

Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0005487 cm/sec

y0 = 2.993 ft

AQUIFER DATA

Saturated Thickness: 11. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (81-50)

Initial Displacement: 3.375 ft

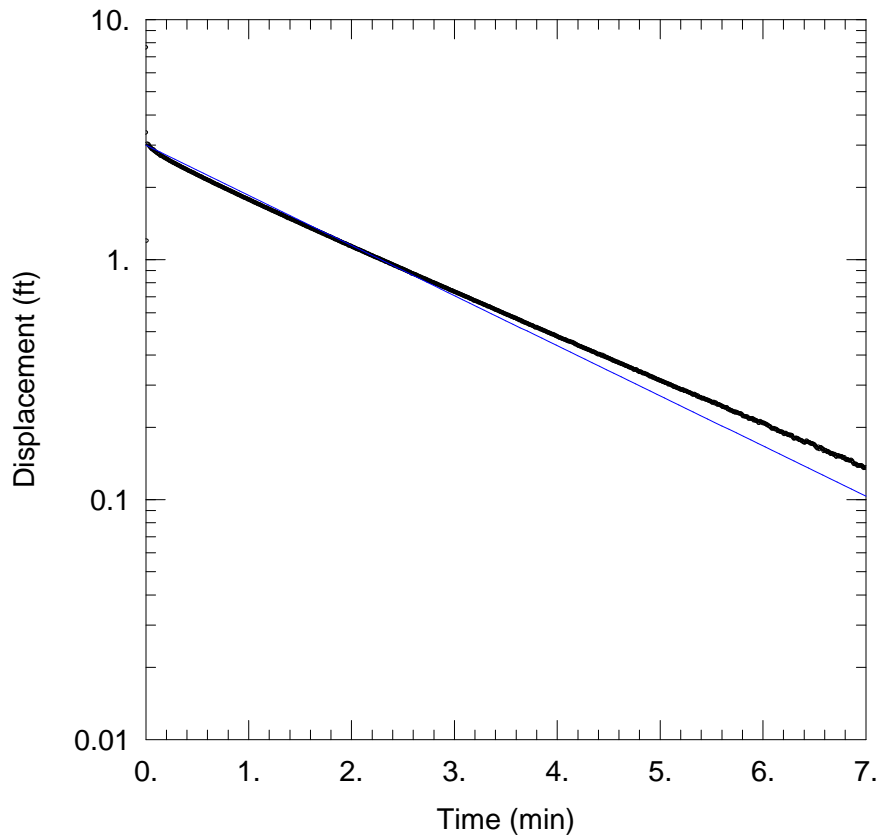
Total Well Penetration Depth: 9. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 39.31 ft

Screen Length: 5. ft

Well Radius: 0.333 ft



81-50 RISING HEAD TEST 1

Data Set: N:\...\81-50-RH1.aqt

Date: 05/10/13

Time: 10:06:59

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 81-50

Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0005005 cm/sec

y0 = 2.993 ft

AQUIFER DATA

Saturated Thickness: 11. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (81-50)

Initial Displacement: 3.375 ft

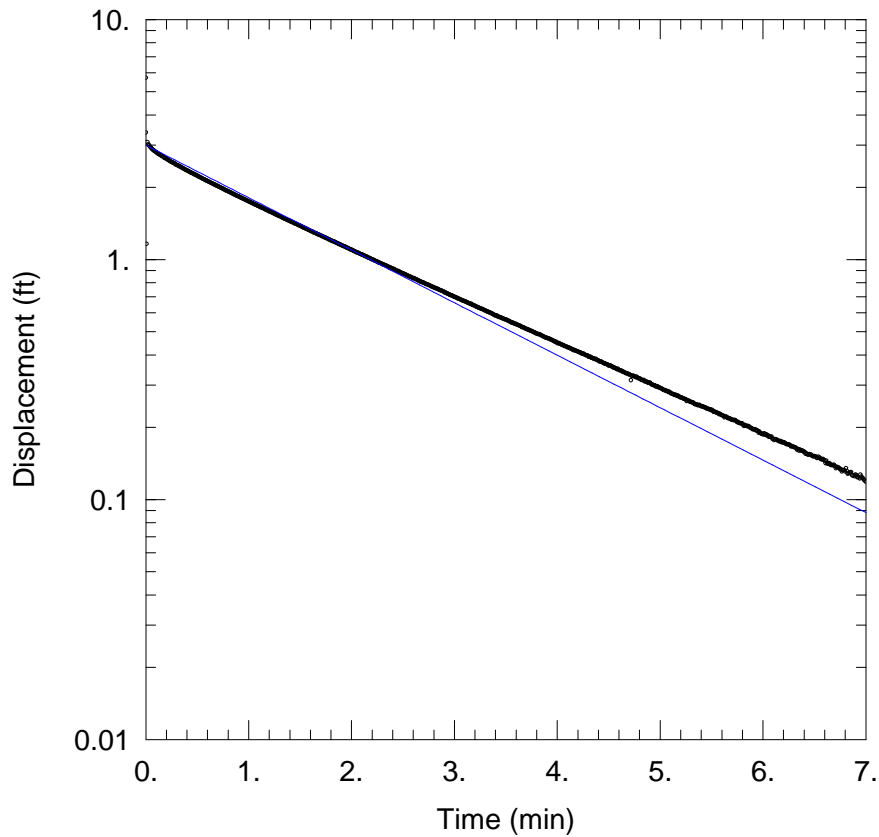
Total Well Penetration Depth: 9. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 39.31 ft

Screen Length: 5. ft

Well Radius: 0.333 ft



81-50 RISING HEAD TEST 2

Data Set: N:\...\81-50-RH2.aqt

Date: 05/10/13

Time: 10:06:46

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 81-50

Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.000524 cm/sec

y0 = 2.993 ft

AQUIFER DATA

Saturated Thickness: 11. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (81-50)

Initial Displacement: 3.375 ft

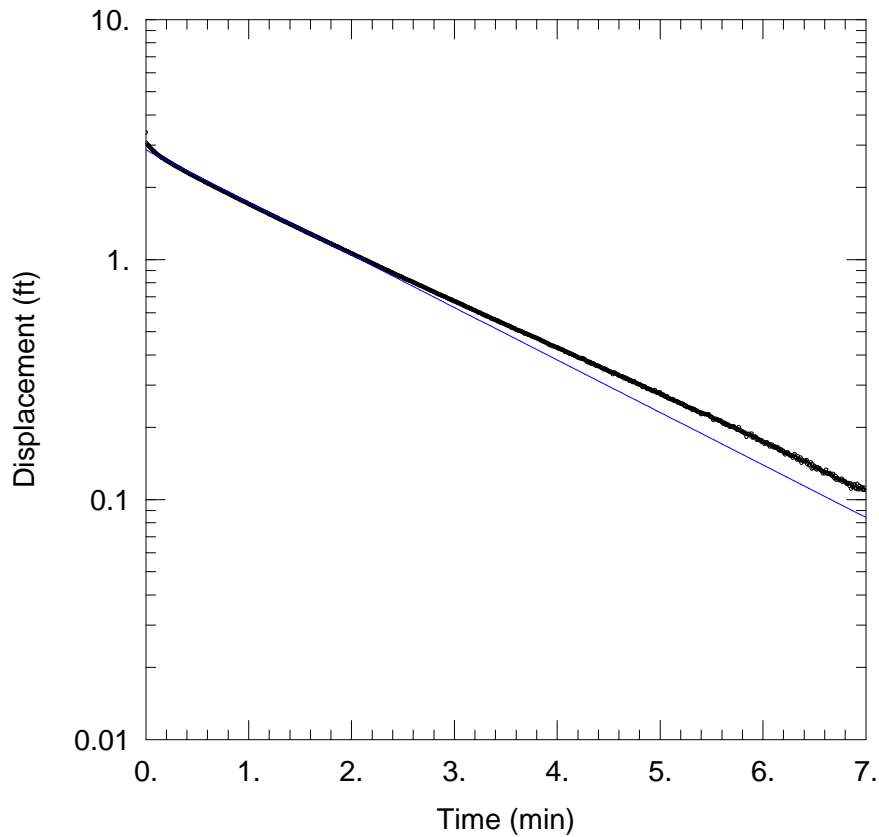
Total Well Penetration Depth: 9. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 39.31 ft

Screen Length: 5. ft

Well Radius: 0.333 ft



81-50 RISING HEAD TEST 3

Data Set: N:\...\81-50-RH3.aqt

Date: 05/10/13

Time: 10:06:33

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 81-50

Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.000524 cm/sec

y0 = 2.858 ft

AQUIFER DATA

Saturated Thickness: 11. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (81-50)

Initial Displacement: 3.375 ft

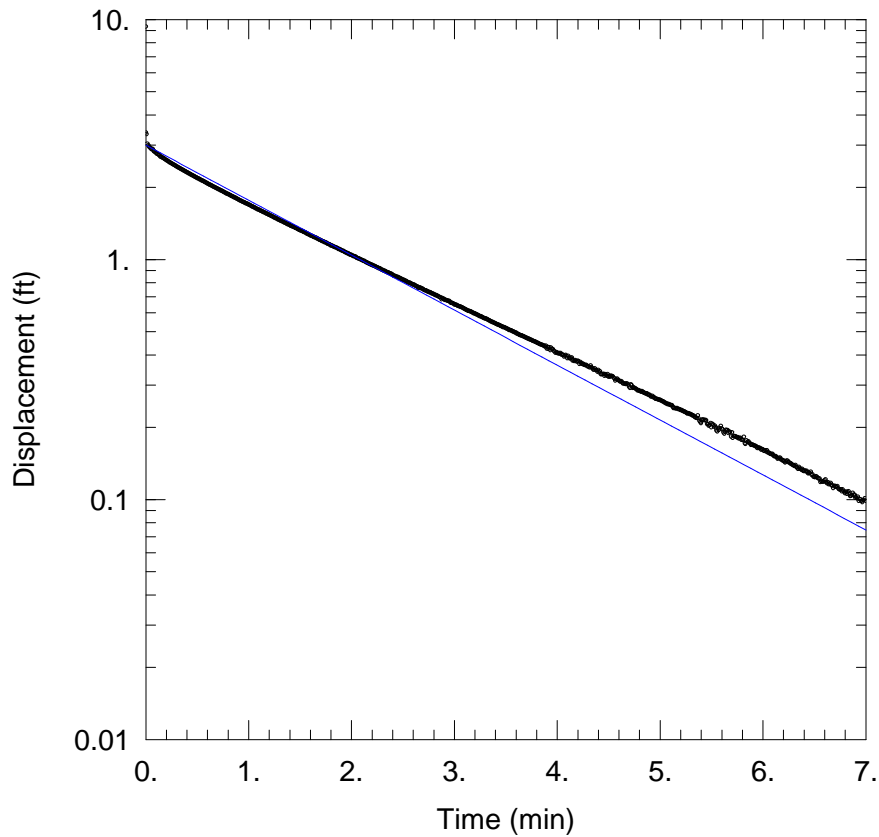
Total Well Penetration Depth: 9. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 39.31 ft

Screen Length: 5. ft

Well Radius: 0.333 ft



81-50 RISING HEAD TEST 4

Data Set: N:\...\81-50-RH4.aqt

Date: 05/13/13

Time: 14:22:03

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 81-50

Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0005487 cm/sec

y0 = 2.993 ft

AQUIFER DATA

Saturated Thickness: 11. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (81-50)

Initial Displacement: 3.375 ft

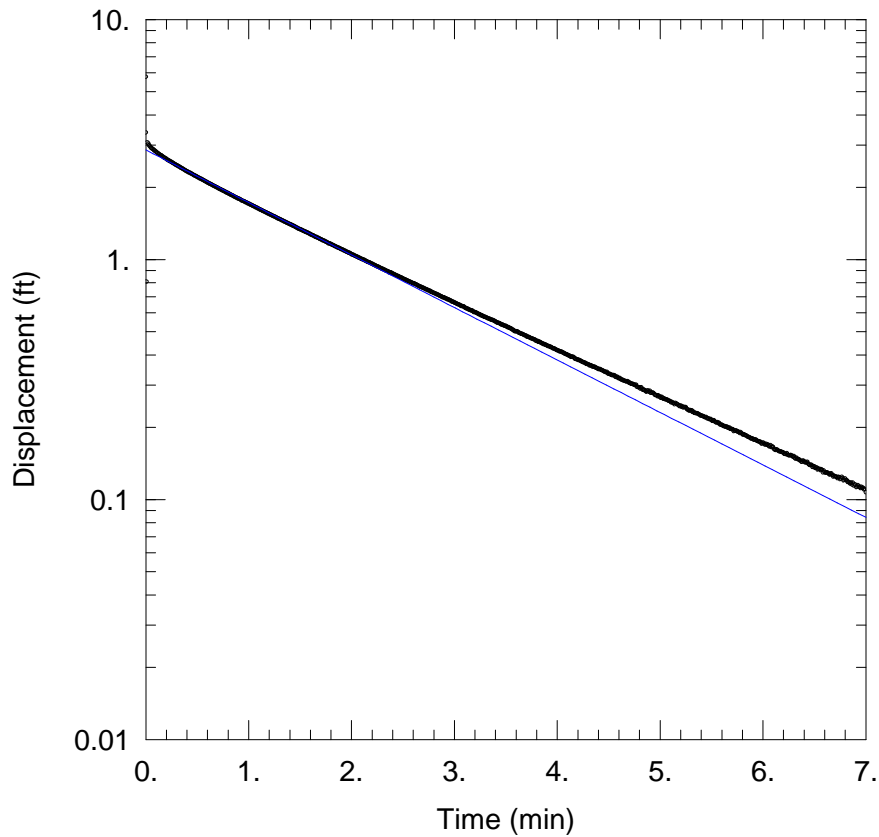
Total Well Penetration Depth: 9. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 39.31 ft

Screen Length: 5. ft

Well Radius: 0.333 ft



81-50 RISING HEAD TEST 5

Data Set: N:\...\81-50-RH5.aqt
 Date: 05/13/13 Time: 14:21:42

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 81-50
 Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.000524$ cm/sec
 $y_0 = 2.858$ ft

AQUIFER DATA

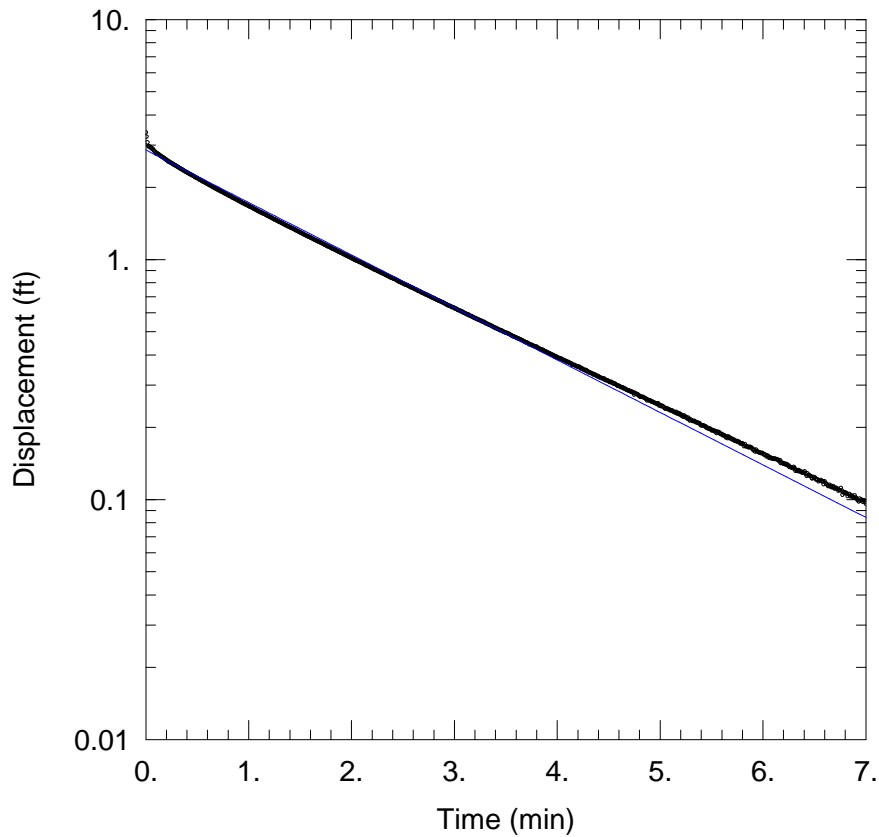
Saturated Thickness: 11. ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (81-50)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 9. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 39.31 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



81-50 RISING HEAD TEST 6

Data Set: N:\...\81-50-RH6.aqt

Date: 05/10/13

Time: 10:05:54

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 81-50

Test Date: February 28, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.000524 cm/sec

y0 = 2.858 ft

AQUIFER DATA

Saturated Thickness: 11. ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (81-50)

Initial Displacement: 3.375 ft

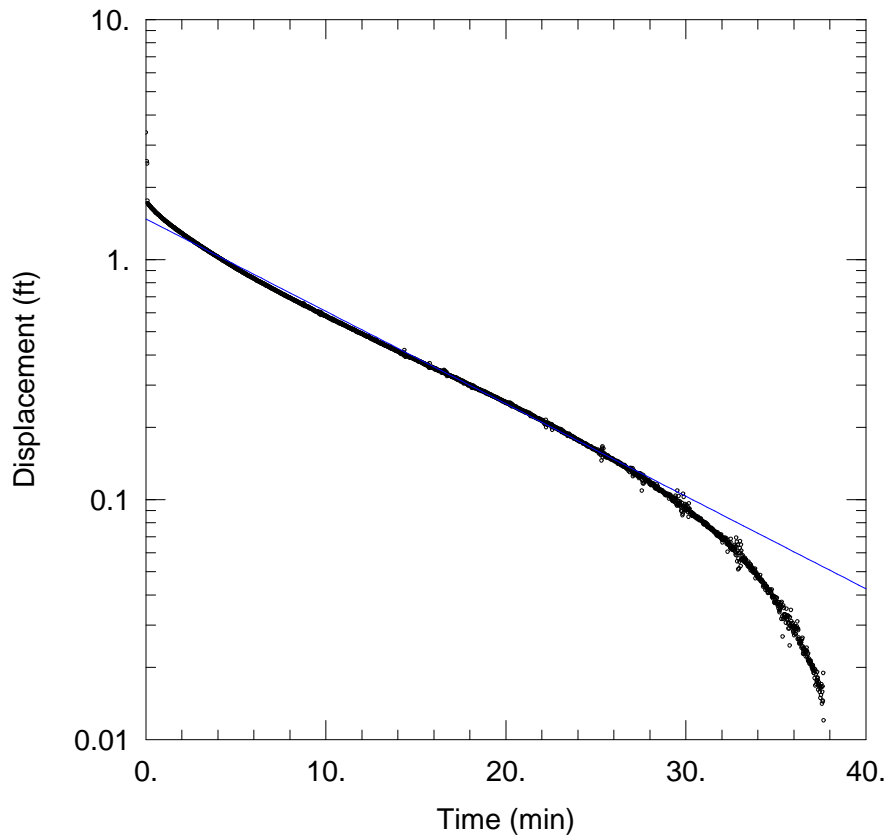
Total Well Penetration Depth: 9. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 39.31 ft

Screen Length: 5. ft

Well Radius: 0.333 ft



8-23 FALLING HEAD TEST 1

Data Set: N:\...\8-23-FH1.aqt

Date: 05/01/13

Time: 18:16:24

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 8-23

Test Date: February 8, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0001359 cm/sec

y0 = 1.477 ft

AQUIFER DATA

Saturated Thickness: 5.54 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (8-23)

Initial Displacement: 3.375 ft

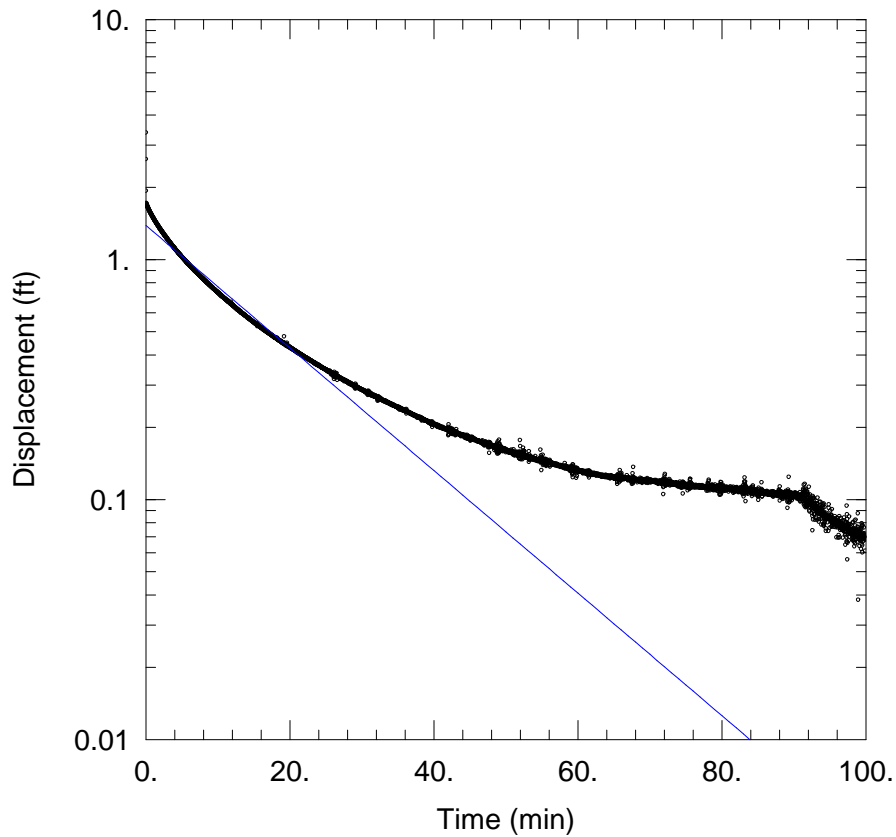
Total Well Penetration Depth: 5.53 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 13.79 ft

Screen Length: 3.53 ft

Well Radius: 0.3438 ft



8-23 FALLING HEAD TEST 2

Data Set: N:\...\8-23-FH2.aqt

Date: 05/01/13

Time: 18:16:07

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 8-23

Test Date: February 8, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 9.007E-5$ cm/sec

$y_0 = 1.386$ ft

AQUIFER DATA

Saturated Thickness: 5.54 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (8-23)

Initial Displacement: 3.375 ft

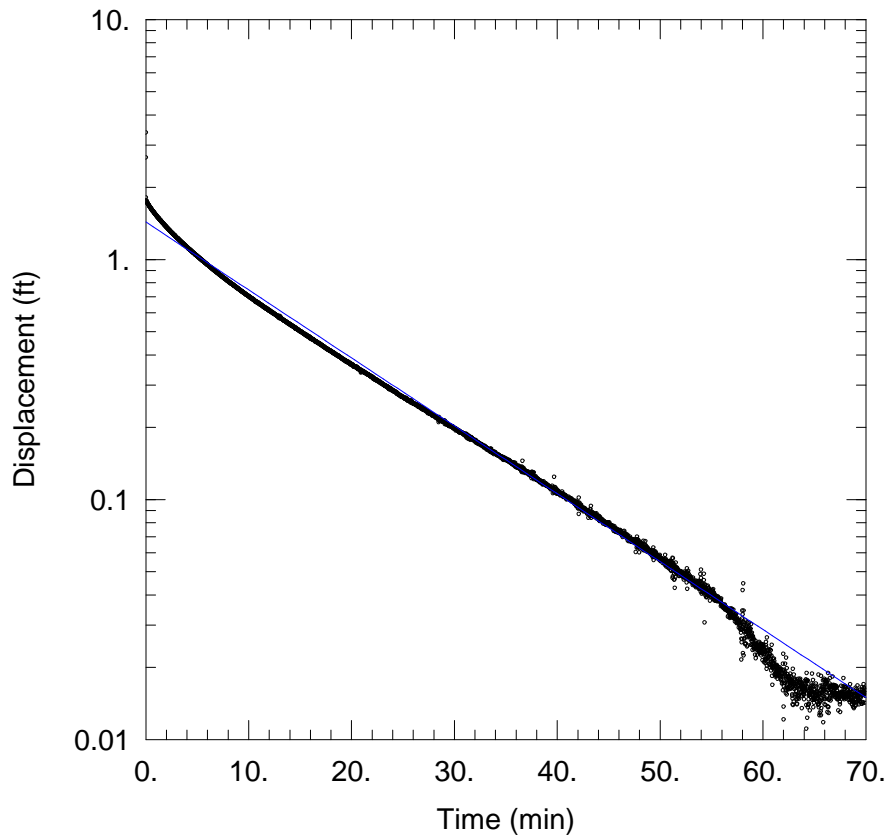
Total Well Penetration Depth: 5.53 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 13.79 ft

Screen Length: 3.53 ft

Well Radius: 0.3438 ft



8-23 FALLING HEAD TEST 3

Data Set: N:\...\8-23-FH3.aqt

Date: 05/01/13

Time: 18:15:47

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 8-23

Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 9.986E-5$ cm/sec

$y_0 = 1.433$ ft

AQUIFER DATA

Saturated Thickness: 5.54 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (8-23)

Initial Displacement: 3.375 ft

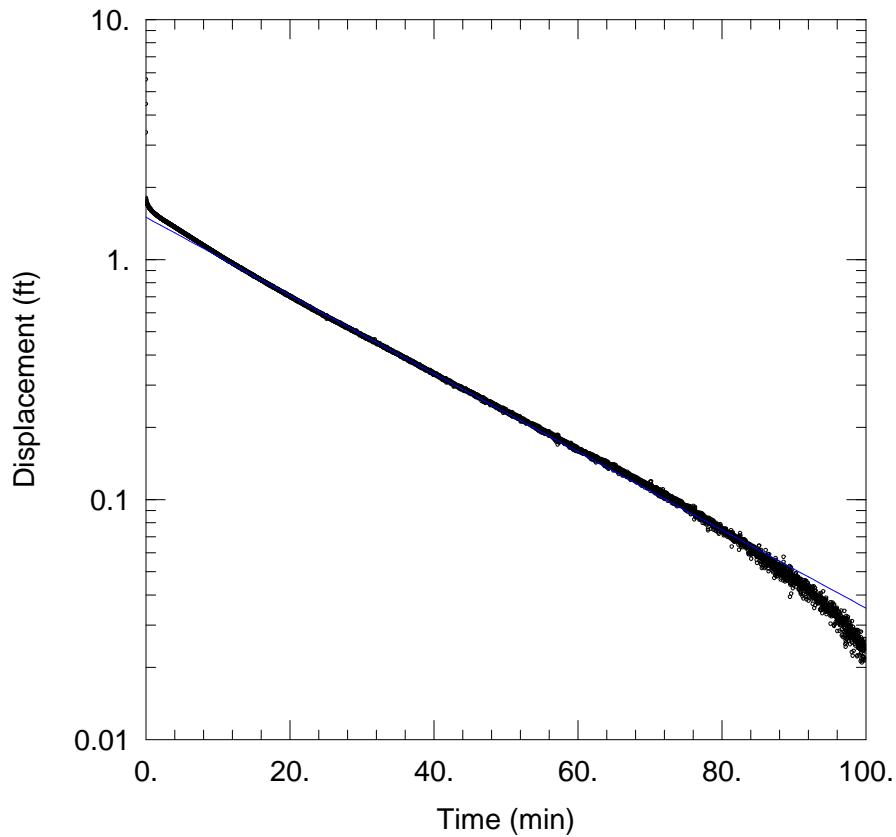
Total Well Penetration Depth: 5.53 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 13.79 ft

Screen Length: 3.53 ft

Well Radius: 0.3438 ft



8-23 RISING HEAD TEST 1

Data Set: N:\...\8-23-RH1.aqt

Date: 05/01/13

Time: 18:21:23

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 8-23

Test Date: February 8, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 5.746E-5$ cm/sec

$y_0 = 1.5$ ft

AQUIFER DATA

Saturated Thickness: 5.54 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (8-23)

Initial Displacement: 3.375 ft

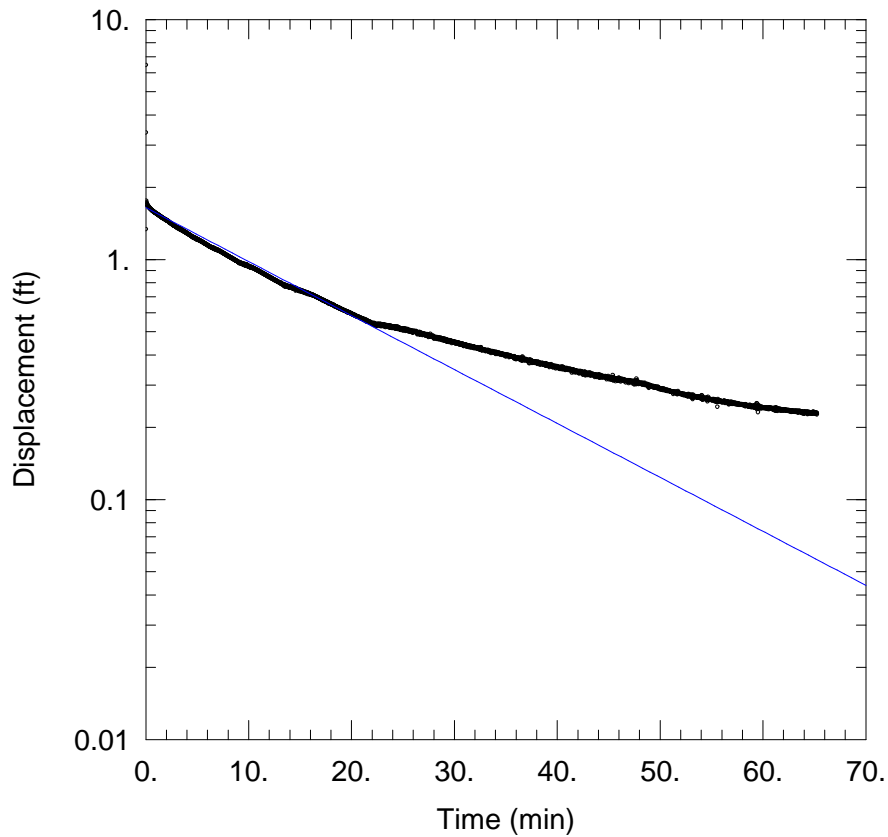
Total Well Penetration Depth: 5.53 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 13.79 ft

Screen Length: 3.53 ft

Well Radius: 0.3438 ft



8-23 RISING HEAD TEST 2

Data Set: N:\...\8-23-RH2.aqt

Date: 05/01/13

Time: 18:21:08

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 8-23

Test Date: February 11, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 7.932E-5 cm/sec

y0 = 1.645 ft

AQUIFER DATA

Saturated Thickness: 5.54 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (8-23)

Initial Displacement: 3.375 ft

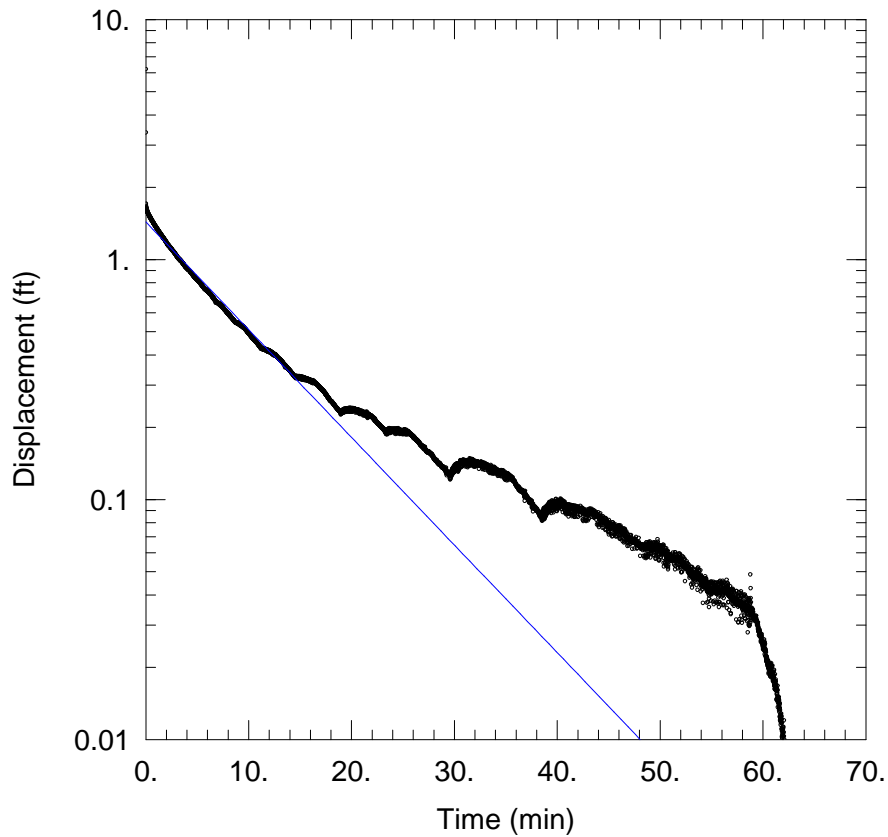
Total Well Penetration Depth: 5.53 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 13.79 ft

Screen Length: 3.53 ft

Well Radius: 0.3438 ft



8-23 RISING HEAD TEST 3

Data Set: N:\...\8-23-RH3.aqt

Date: 05/01/13

Time: 18:20:52

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 8-23

Test Date: February 12, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0001583 cm/sec

y0 = 1.433 ft

AQUIFER DATA

Saturated Thickness: 5.54 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (8-23)

Initial Displacement: 3.375 ft

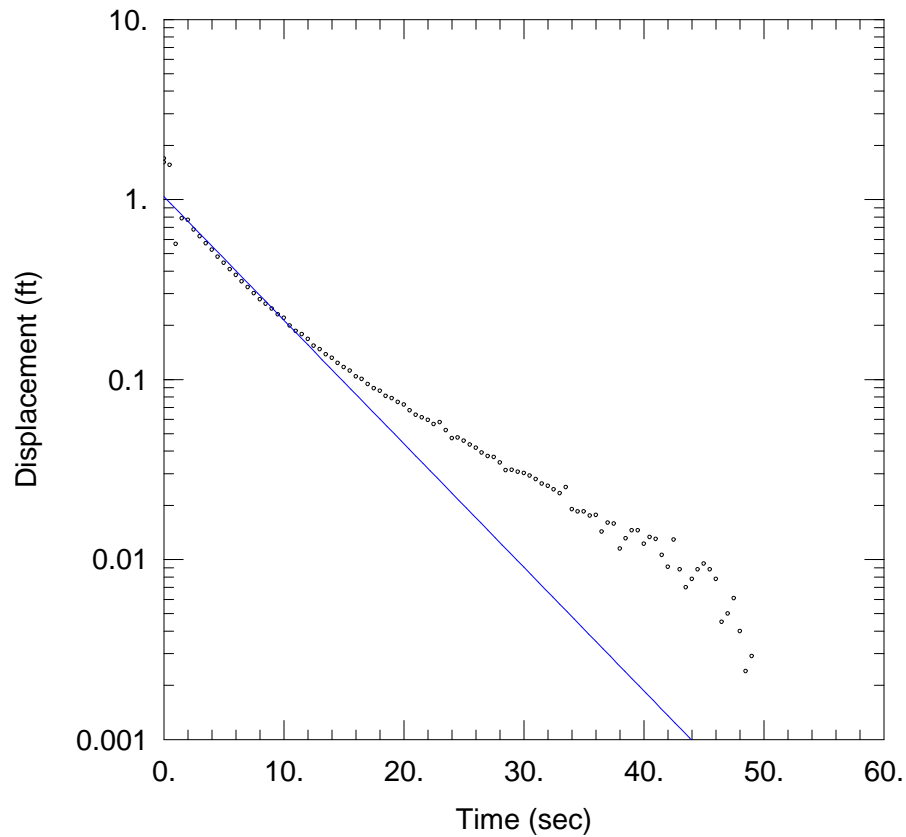
Total Well Penetration Depth: 5.53 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 13.79 ft

Screen Length: 3.53 ft

Well Radius: 0.3438 ft



89C-25 FALLING HEAD TEST 1

Data Set: N:\...\89C-25-FH1.aqt
 Date: 05/07/13 Time: 08:33:15

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 89C-25
 Test Date: January 18, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.01195 cm/sec
 y0 = 1.038 ft

AQUIFER DATA

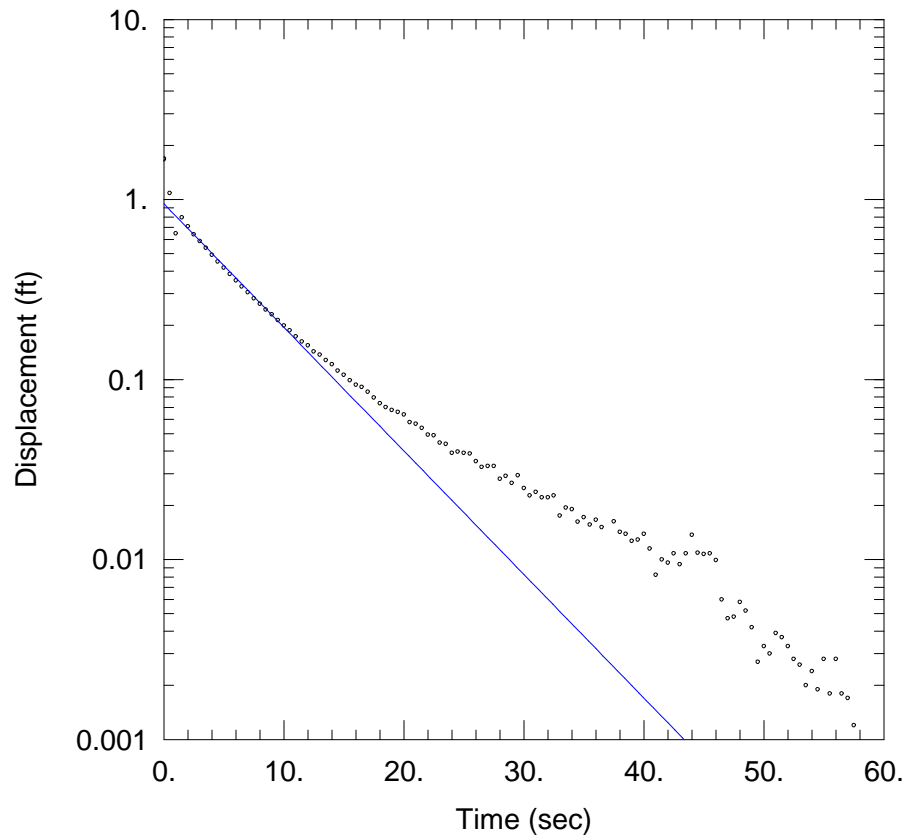
Saturated Thickness: 9.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (89C-25)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 9.74 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 15.21 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



89C-25 FALLING HEAD TEST 2

Data Set: N:\...\89C-25-FH2.aqt
 Date: 05/07/13 Time: 08:33:01

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 89C-25
 Test Date: January 18, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.01195$ cm/sec
 $y_0 = 0.9465$ ft

AQUIFER DATA

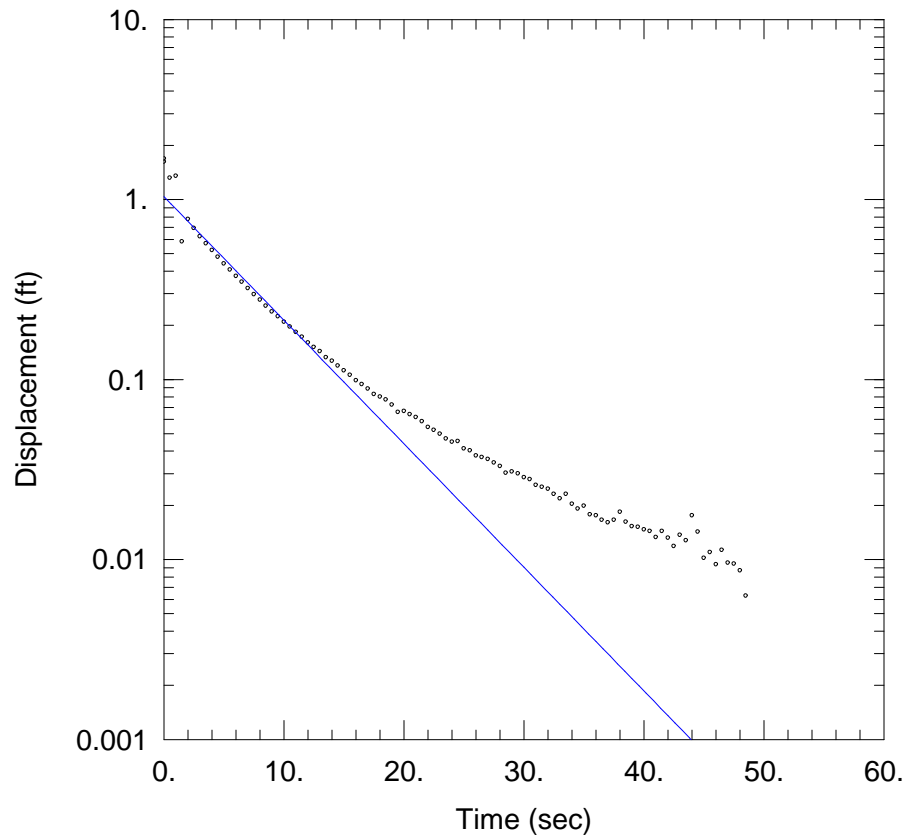
Saturated Thickness: 9.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (89C-25)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 9.74 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 15.21 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



89C-25 FALLING HEAD TEST 3

Data Set: N:\...\89C-25-FH3.aqt
 Date: 05/07/13 Time: 08:32:47

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 89C-25
 Test Date: January 18, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.01195 cm/sec
 y0 = 1.038 ft

AQUIFER DATA

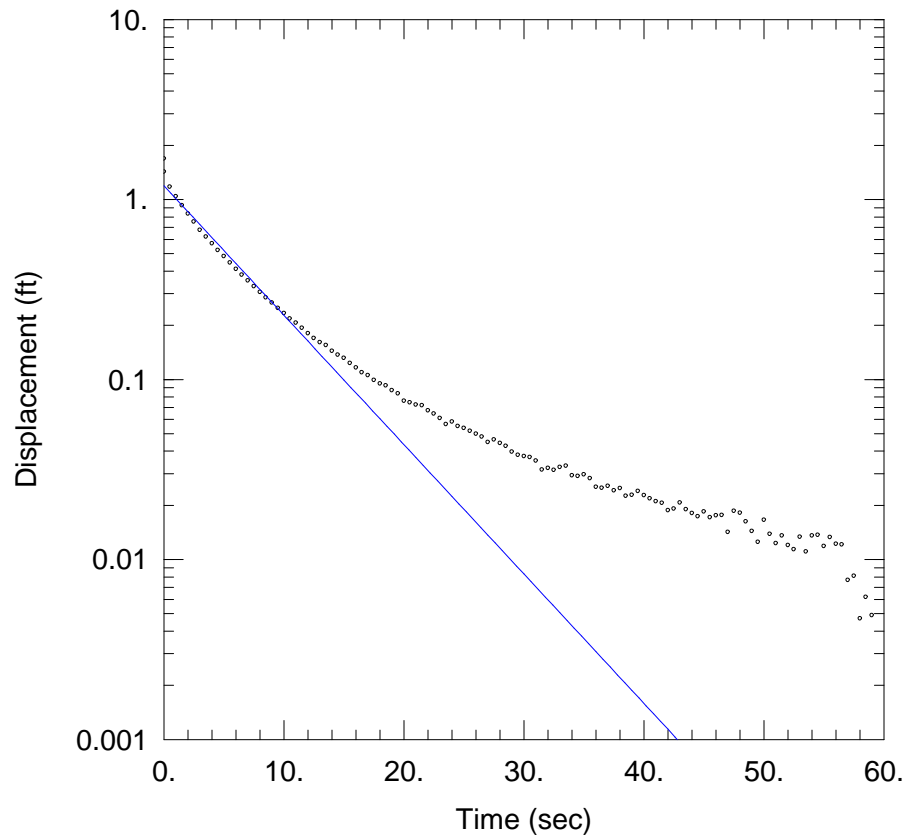
Saturated Thickness: 9.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (89C-25)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 9.74 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 15.21 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



89C-25 RISING HEAD TEST 1

Data Set: N:\...\89C-25-RH1.aqt
 Date: 05/07/13 Time: 08:32:34

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 89C-25
 Test Date: January 18, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.01252$ cm/sec
 $y_0 = 1.192$ ft

AQUIFER DATA

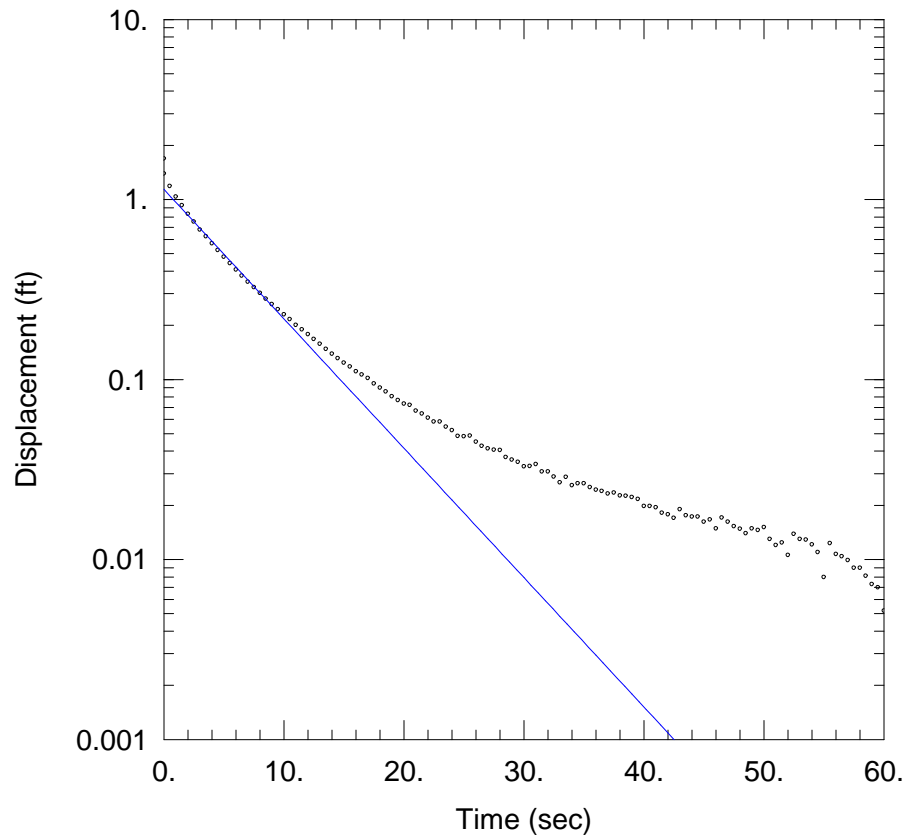
Saturated Thickness: 9.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (89C-25)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 9.74 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 15.21 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



89C-25 RISING HEAD TEST 2

Data Set: N:\...\89C-25-RH2.aqt
 Date: 05/07/13 Time: 08:32:18

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 89C-25
 Test Date: January 18, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.01252$ cm/sec
 $y_0 = 1.138$ ft

AQUIFER DATA

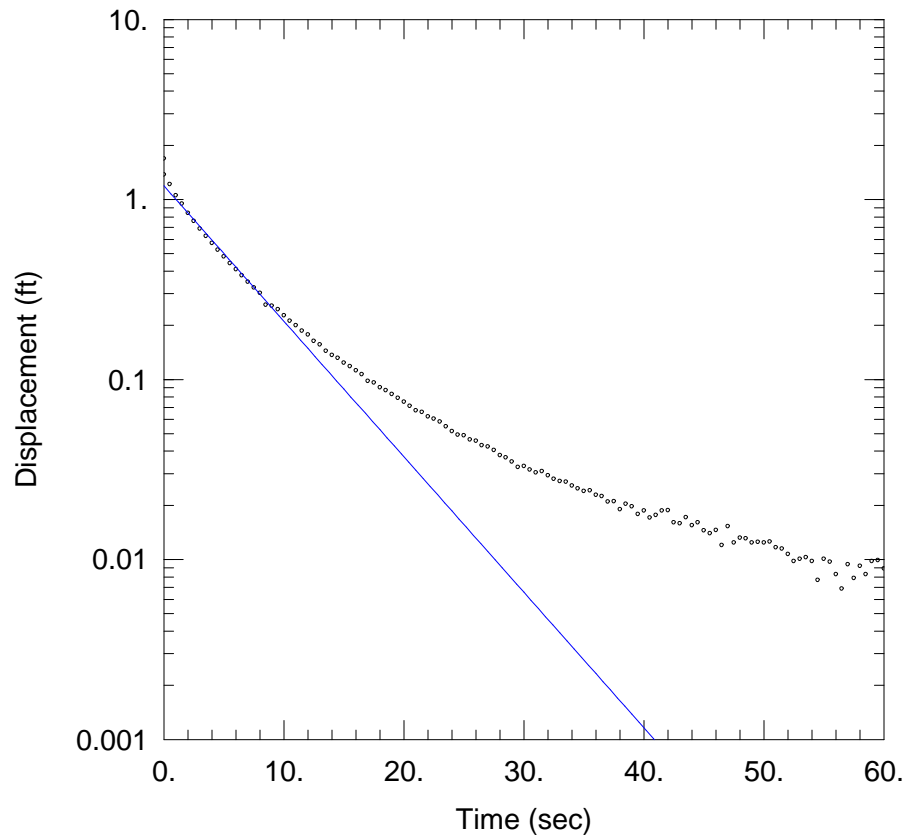
Saturated Thickness: 9.8 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (89C-25)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 9.74 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 15.21 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



89C-25 RISING HEAD TEST 3

Data Set: N:\...\89C-25-RH3.aqt
 Date: 05/07/13 Time: 08:31:57

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 89C-25
 Test Date: January 18, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.01311 cm/sec
 y0 = 1.192 ft

AQUIFER DATA

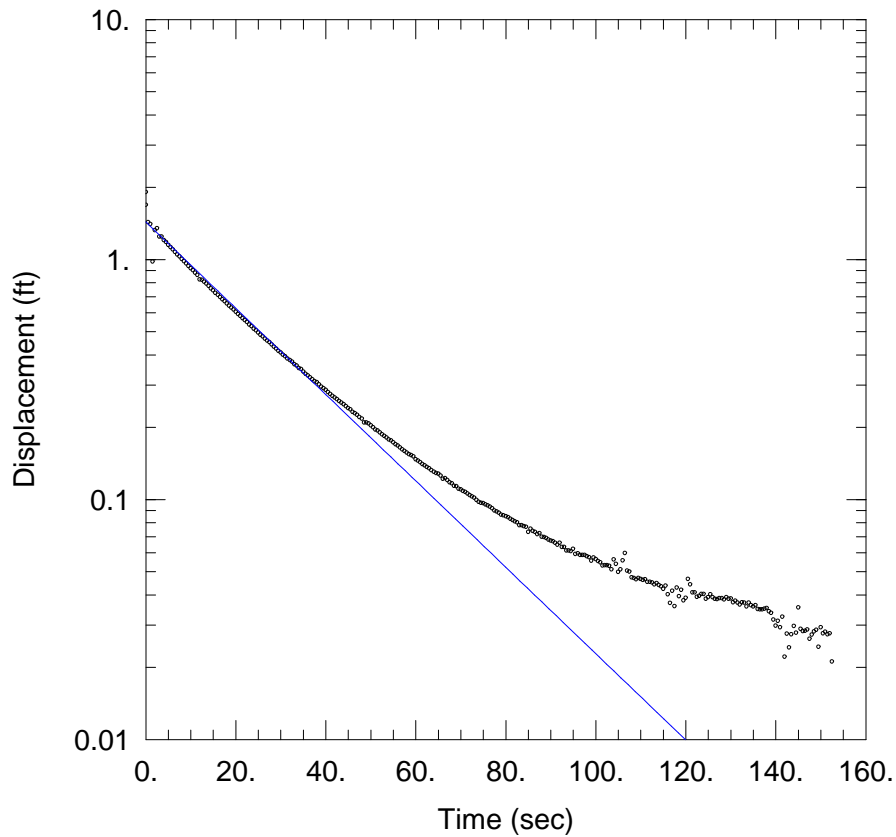
Saturated Thickness: 9.8 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (89C-25)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 9.74 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 15.21 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



89C-50 FALLING HEAD TEST 1

Data Set: N:\...\89C-50-FH1.aqt
 Date: 05/07/13 Time: 08:55:23

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 89C-50
 Test Date: January 18, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.002868$ cm/sec
 $y_0 = 1.433$ ft

AQUIFER DATA

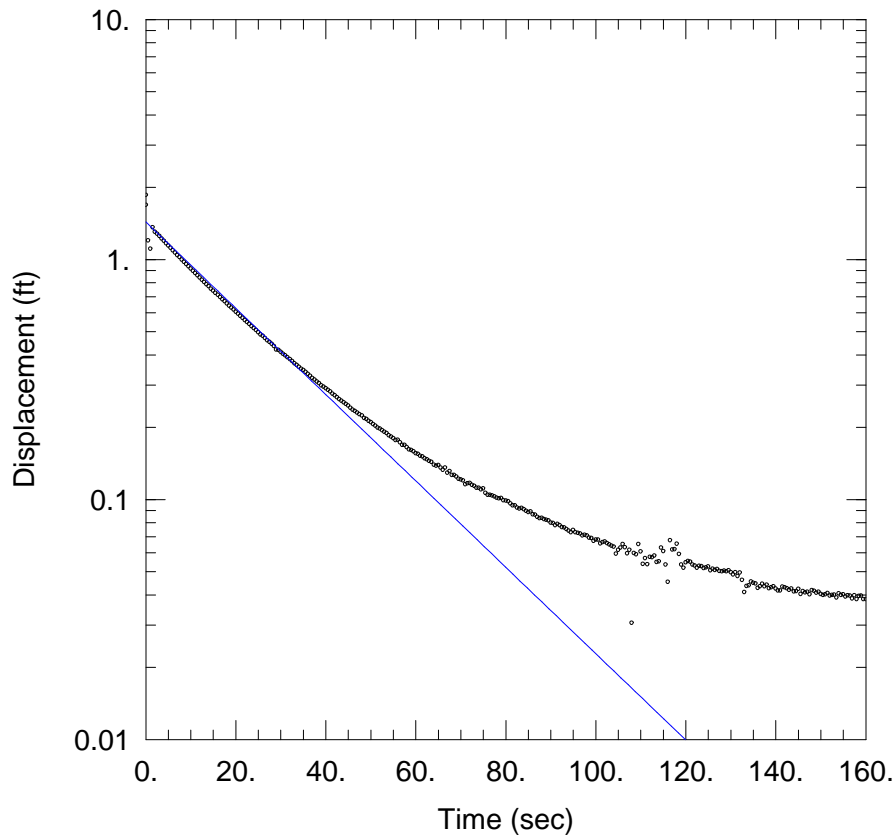
Saturated Thickness: 9.6 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (89C-50)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 8.9 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 38.94 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



89C-50 FALLING HEAD TEST 2

Data Set: N:\...\89C-50-FH2.aqt
 Date: 05/07/13 Time: 08:55:03

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 89C-50
 Test Date: January 18, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.002868$ cm/sec
 $y_0 = 1.433$ ft

AQUIFER DATA

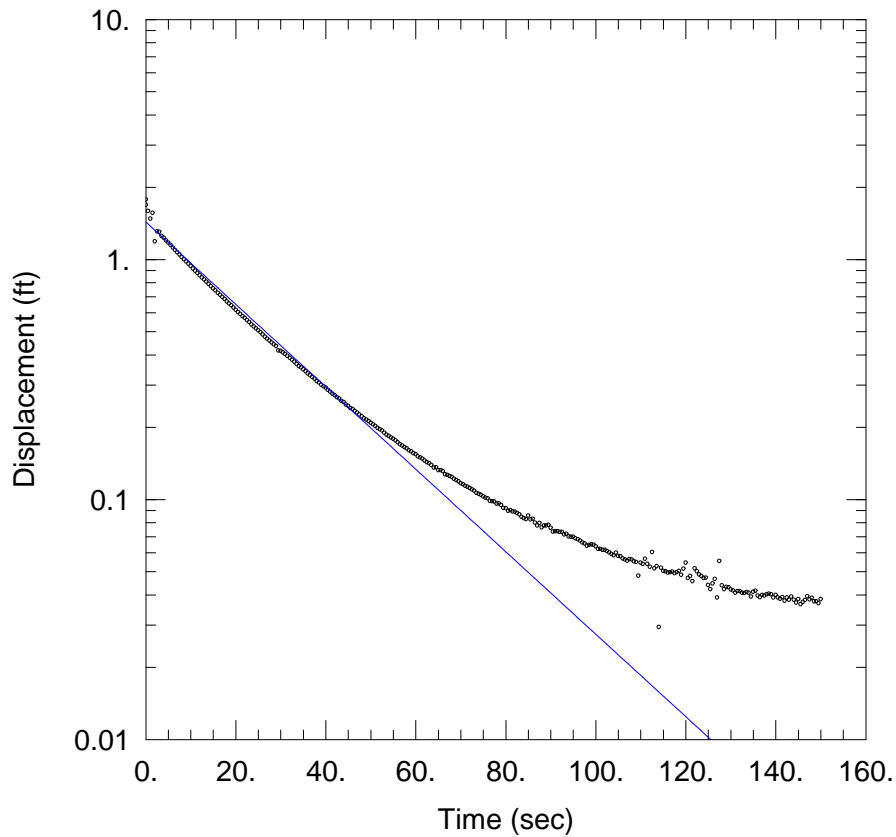
Saturated Thickness: 9.6 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (89C-50)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 8.9 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 38.94 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



89C-50 FALLING HEAD TEST 3

Data Set: N:\...\89C-50-FH3.aqt
 Date: 05/07/13 Time: 08:54:50

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 89C-50
 Test Date: January 18, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.002739$ cm/sec
 $y_0 = 1.433$ ft

AQUIFER DATA

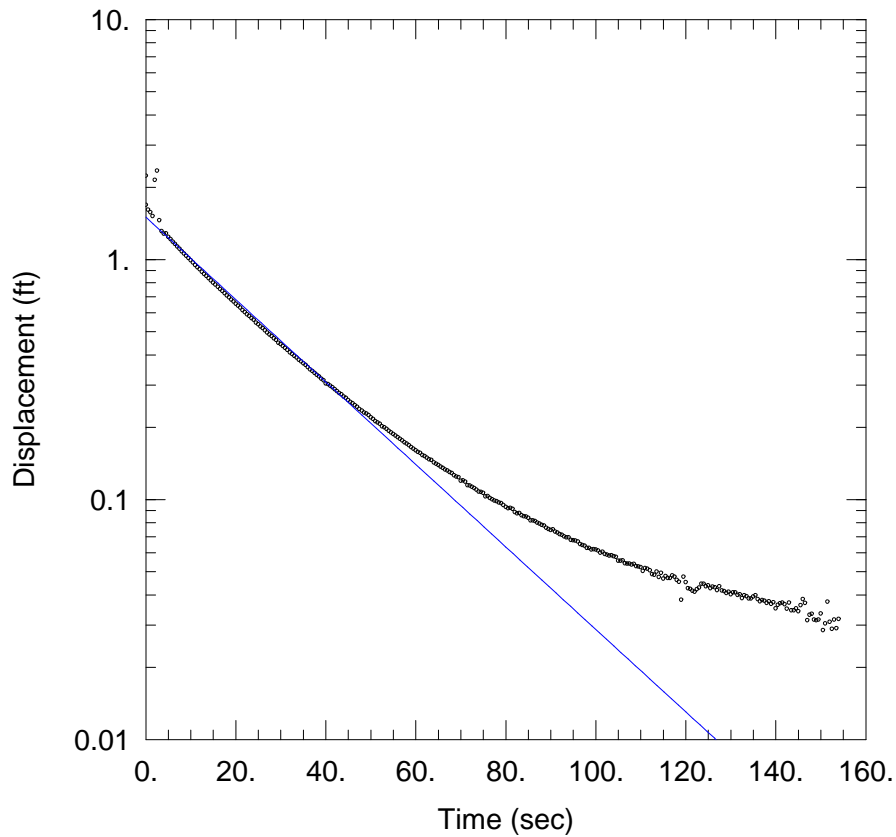
Saturated Thickness: 9.6 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (89C-50)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 8.9 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 38.94 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



89C-50 RISING HEAD TEST 1

Data Set: N:\...\89C-50-RH1.aqt
 Date: 05/07/13 Time: 08:54:37

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 89C-50
 Test Date: January 18, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.002739 cm/sec
 y0 = 1.5 ft

AQUIFER DATA

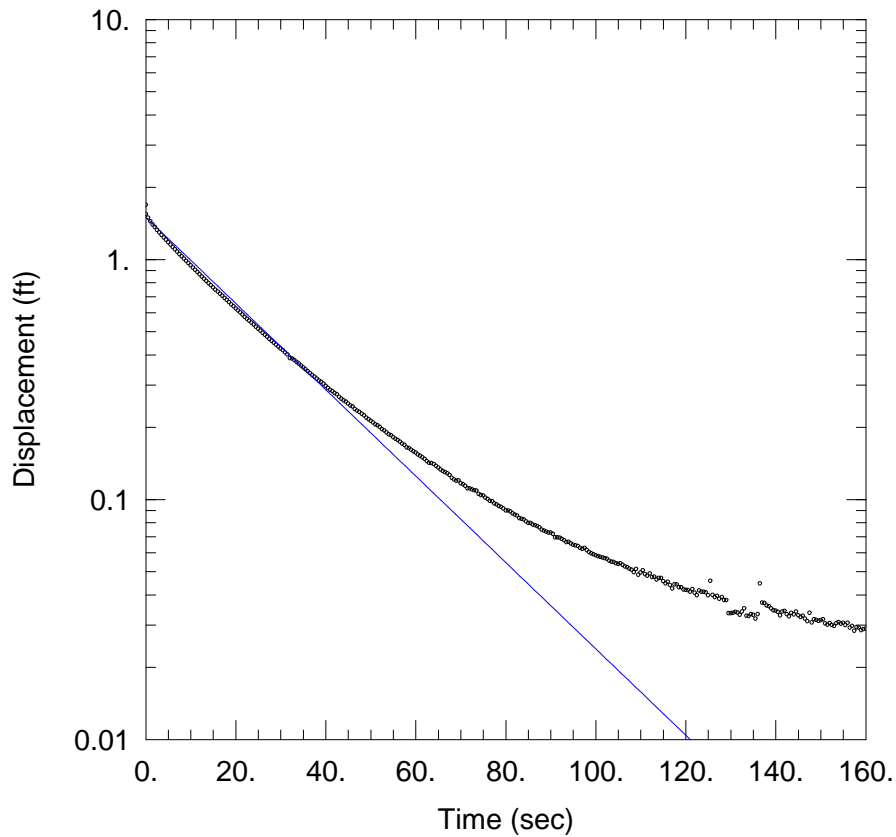
Saturated Thickness: 9.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (89C-50)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 8.9 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 38.94 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



89C-50 RISING HEAD TEST 2

Data Set: N:\...\89C-50-RH2.aqt
 Date: 05/07/13 Time: 08:54:23

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 89C-50
 Test Date: January 18, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.002868$ cm/sec
 $y_0 = 1.5$ ft

AQUIFER DATA

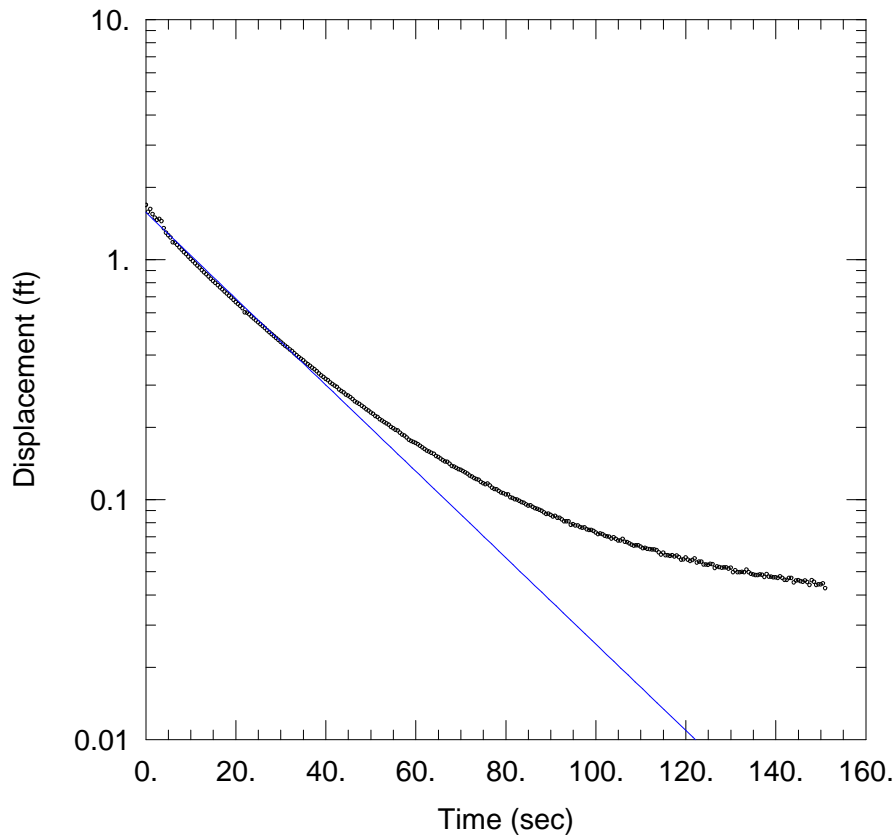
Saturated Thickness: 9.6 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (89C-50)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 8.9 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 38.94 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



89C-50 RISING HEAD TEST 3

Data Set: N:\...\89C-50-RH3.aqt
 Date: 05/07/13 Time: 08:54:09

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 89C-50
 Test Date: January 18, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.002868 cm/sec
 y0 = 1.571 ft

AQUIFER DATA

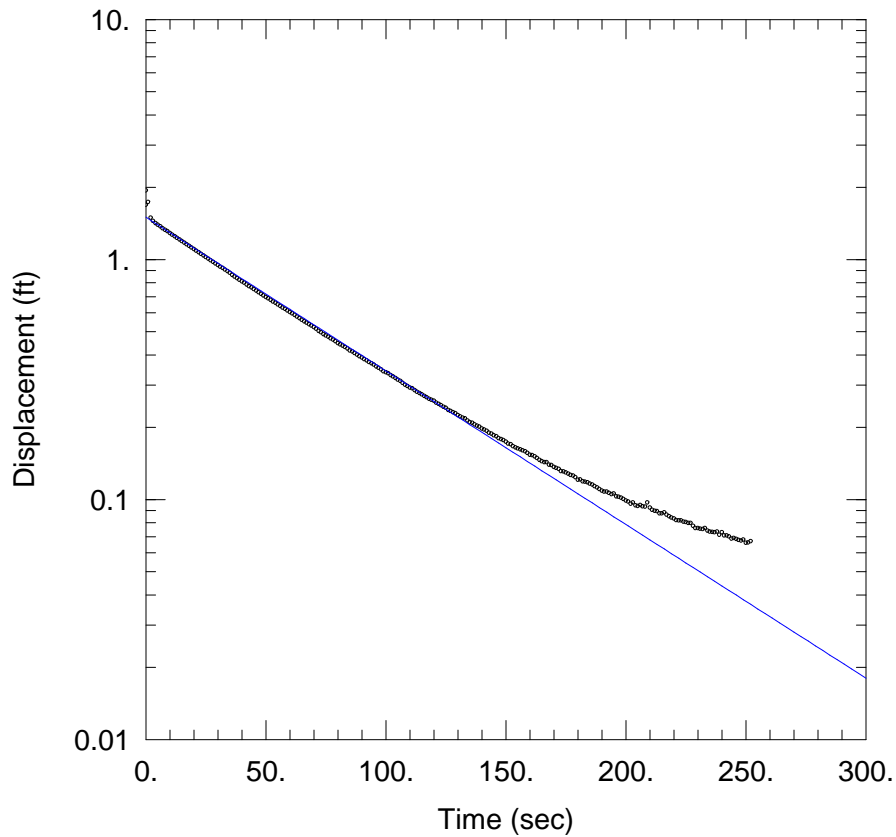
Saturated Thickness: 9.6 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (89C-50)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 8.9 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 38.94 ft
 Screen Length: 5 ft
 Well Radius: 0.25 ft



89C-75 FALLING HEAD TEST 1

Data Set: N:\...\89C-75-FH1.aqt
 Date: 05/07/13 Time: 09:23:06

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 89C-75
 Test Date: January 18, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.001311 cm/sec
 y0 = 1.5 ft

AQUIFER DATA

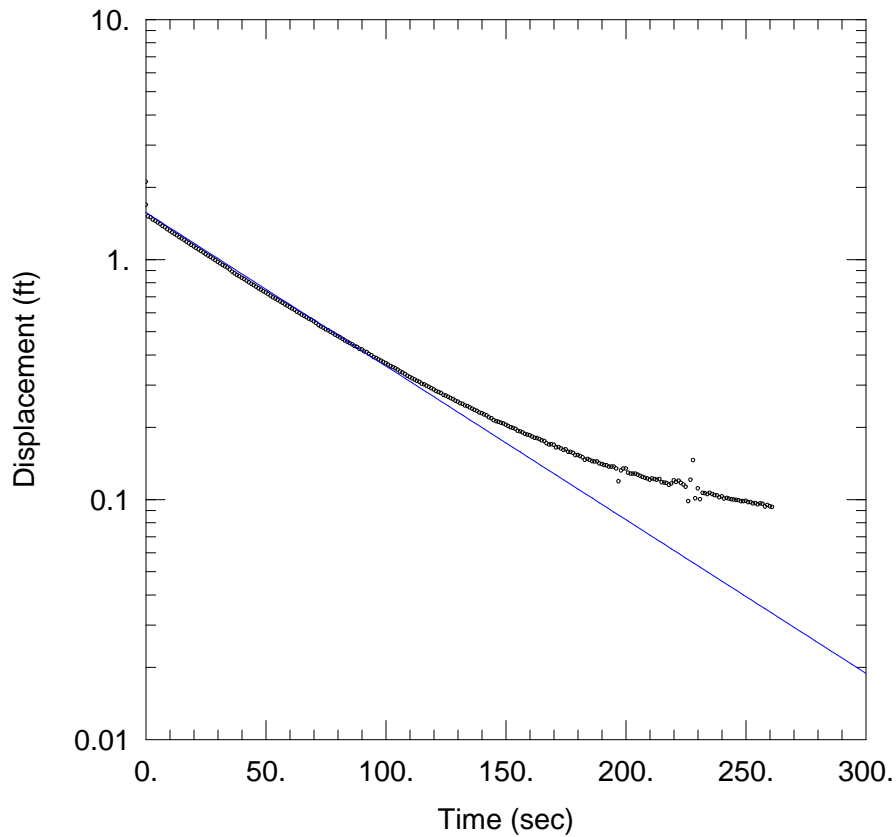
Saturated Thickness: 8.26 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (89C-75)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 8.26 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 63.54 ft
 Screen Length: 4.14 ft
 Well Radius: 0.25 ft



89C-75 FALLING HEAD TEST 2

Data Set: N:\...\89C-75-FH2.aqt
 Date: 05/07/13 Time: 09:22:52

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 89C-75
 Test Date: January 18, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.001311 cm/sec
 y0 = 1.571 ft

AQUIFER DATA

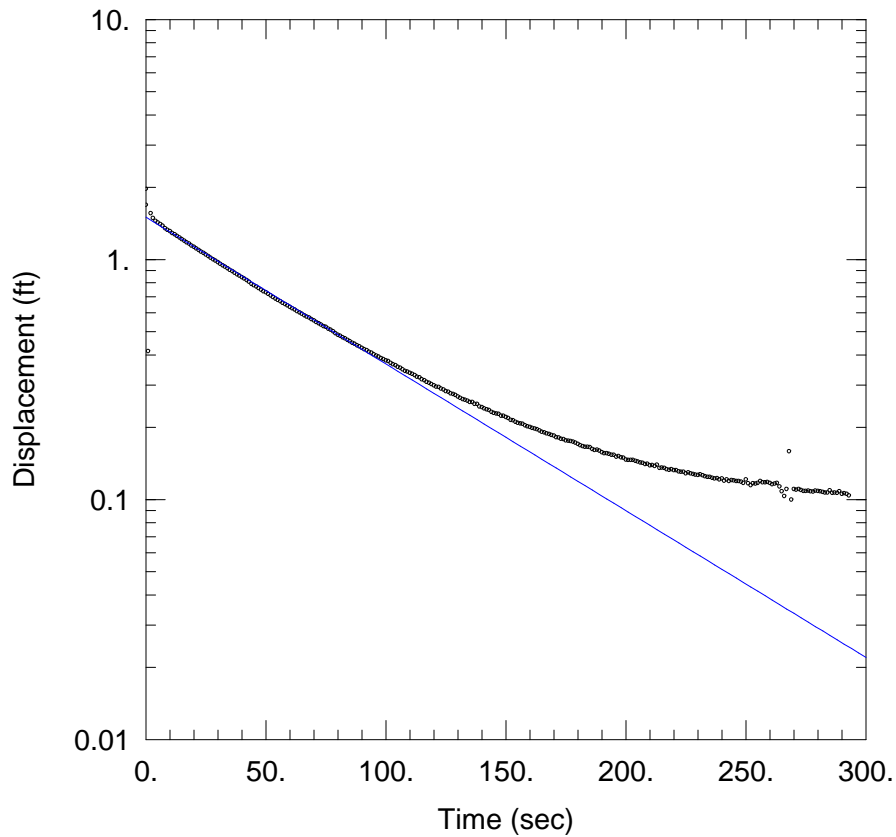
Saturated Thickness: 8.26 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (89C-75)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 8.26 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 63.54 ft
 Screen Length: 4.14 ft
 Well Radius: 0.25 ft



89C-75 FALLING HEAD TEST 3

Data Set: N:\...\89C-75-FH3.aqt
 Date: 05/07/13 Time: 09:22:35

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 89C-75
 Test Date: January 18, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.001252 cm/sec
 y0 = 1.5 ft

AQUIFER DATA

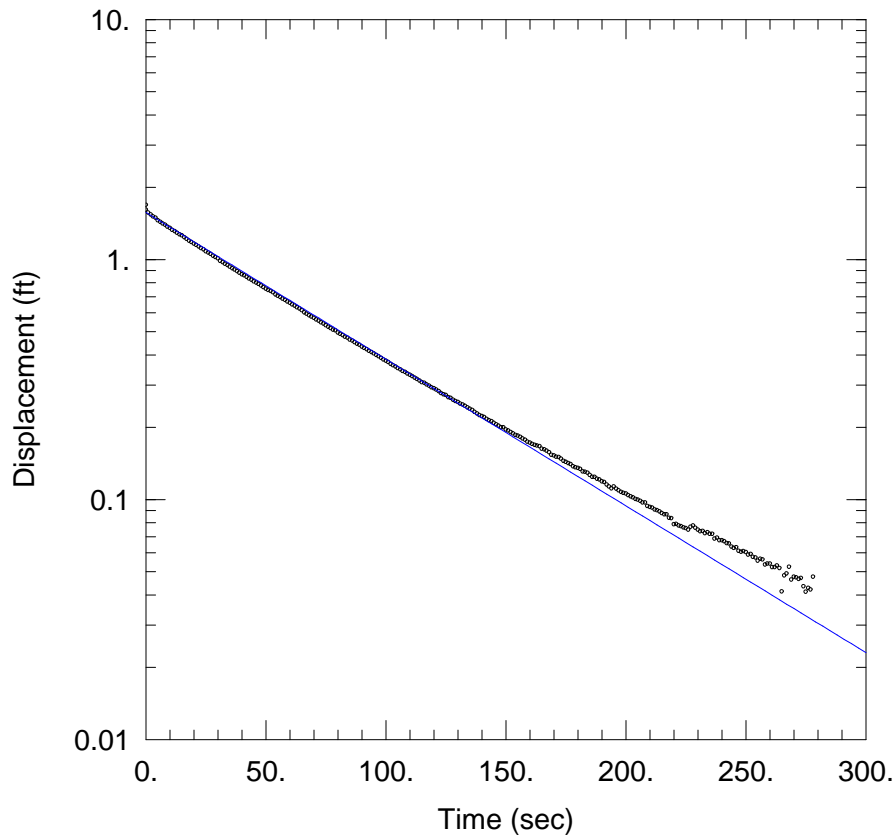
Saturated Thickness: 8.26 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (89C-75)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 8.26 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 63.54 ft
 Screen Length: 4.14 ft
 Well Radius: 0.25 ft



89C-75 RISING HEAD TEST 1

Data Set: N:\...\89C-75-RH1.aqt
 Date: 05/07/13 Time: 09:22:19

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 89C-75
 Test Date: January 18, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001252$ cm/sec
 $y_0 = 1.571$ ft

AQUIFER DATA

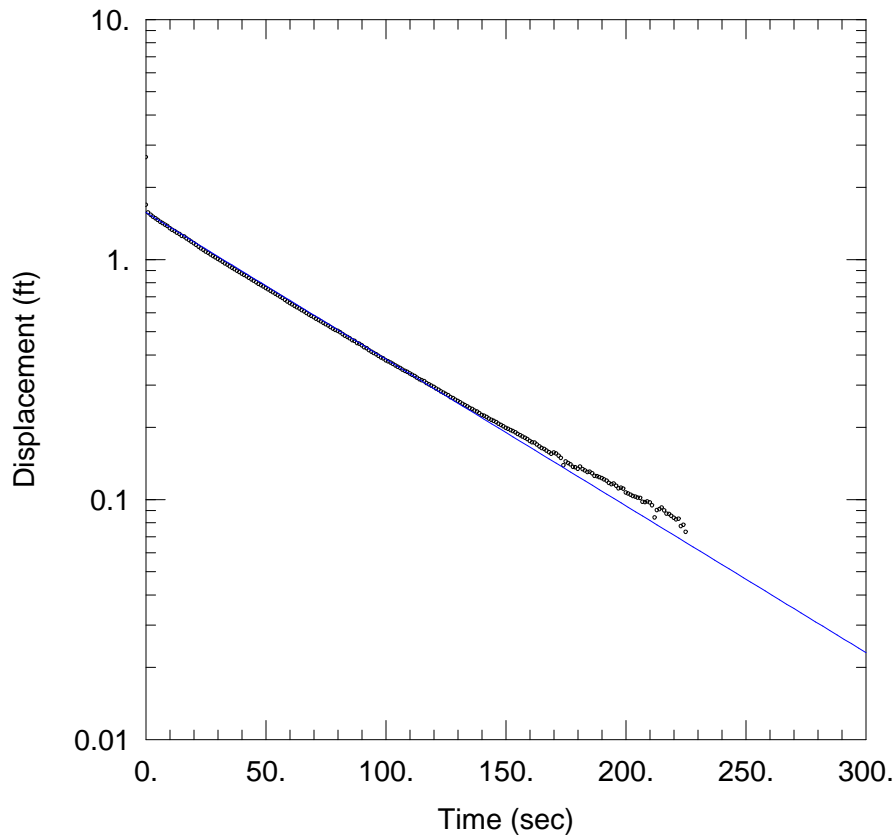
Saturated Thickness: 8.26 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (89C-75)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 8.26 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 63.54 ft
 Screen Length: 4.14 ft
 Well Radius: 0.25 ft



89C-75 RISING HEAD TEST 2

Data Set: N:\...\89C-75-RH2.aqt
 Date: 05/07/13 Time: 09:22:03

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 89C-75
 Test Date: January 18, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.001252$ cm/sec
 $y_0 = 1.571$ ft

AQUIFER DATA

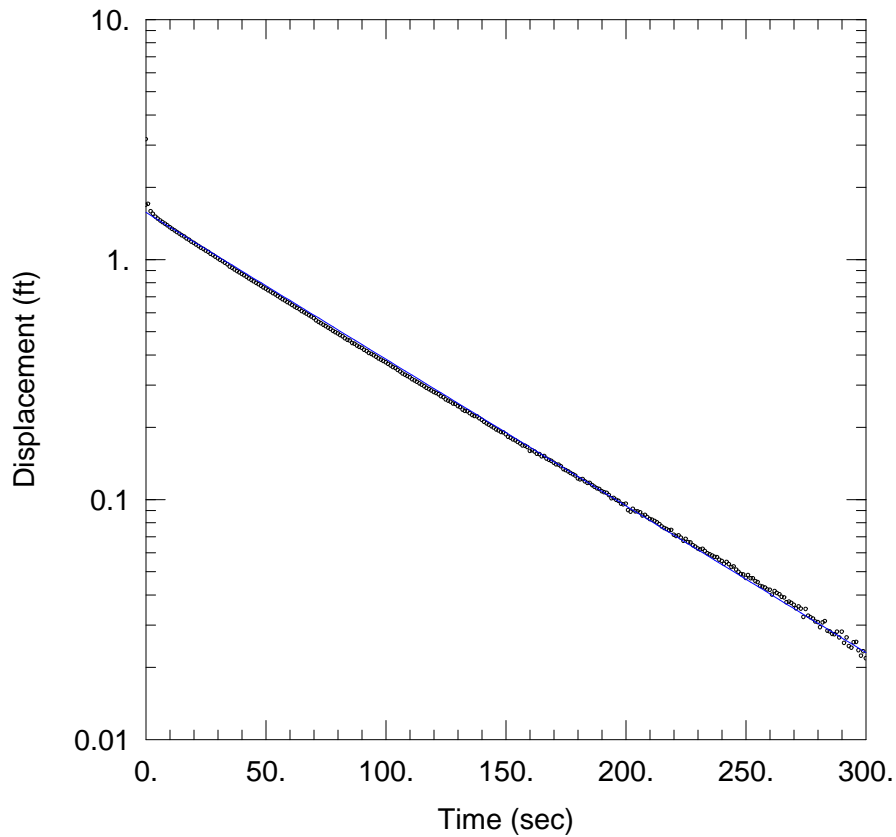
Saturated Thickness: 8.26 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (89C-75)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 8.26 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 63.54 ft
 Screen Length: 4.14 ft
 Well Radius: 0.25 ft



89C-75 RISING HEAD TEST 3

Data Set: N:\...\89C-75-RH3.aqt
 Date: 05/07/13 Time: 09:21:47

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 89C-75
 Test Date: January 18, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.001252 cm/sec
 y0 = 1.571 ft

AQUIFER DATA

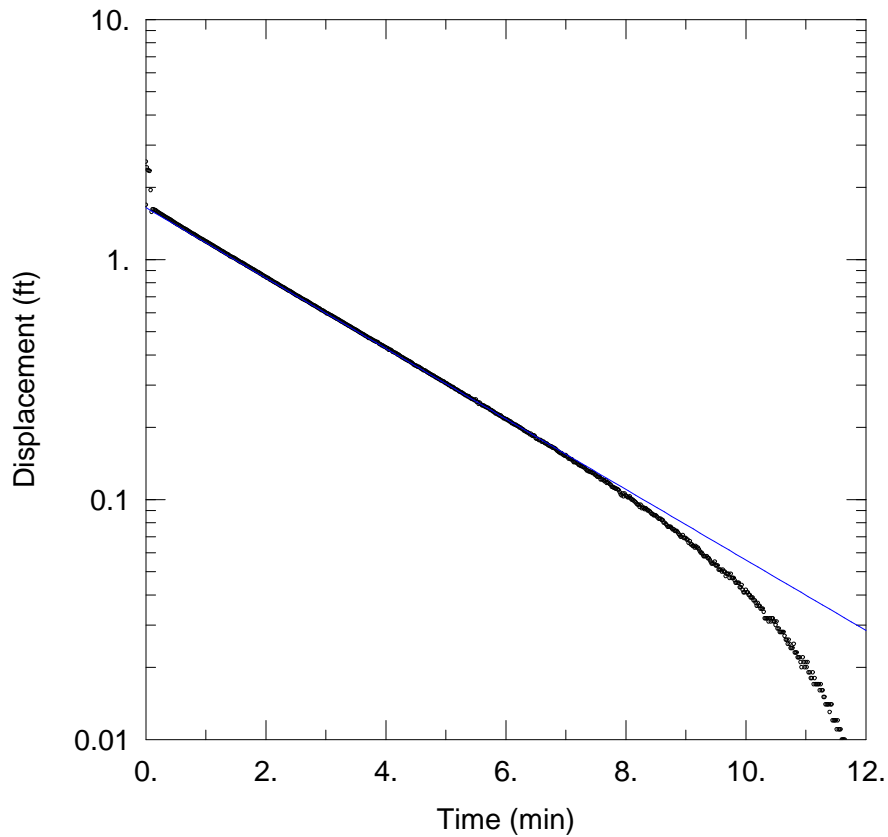
Saturated Thickness: 8.26 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (89C-75)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 8.26 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 63.54 ft
 Screen Length: 4.14 ft
 Well Radius: 0.25 ft



9-100 FALLING HEAD TEST 1

Data Set: N:\...\9-100-FH1.aqt

Date: 05/02/13

Time: 08:57:54

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 9-100

Test Date: February 13, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0005487 cm/sec

y0 = 1.645 ft

AQUIFER DATA

Saturated Thickness: 6.23 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (9-100)

Initial Displacement: 1.688 ft

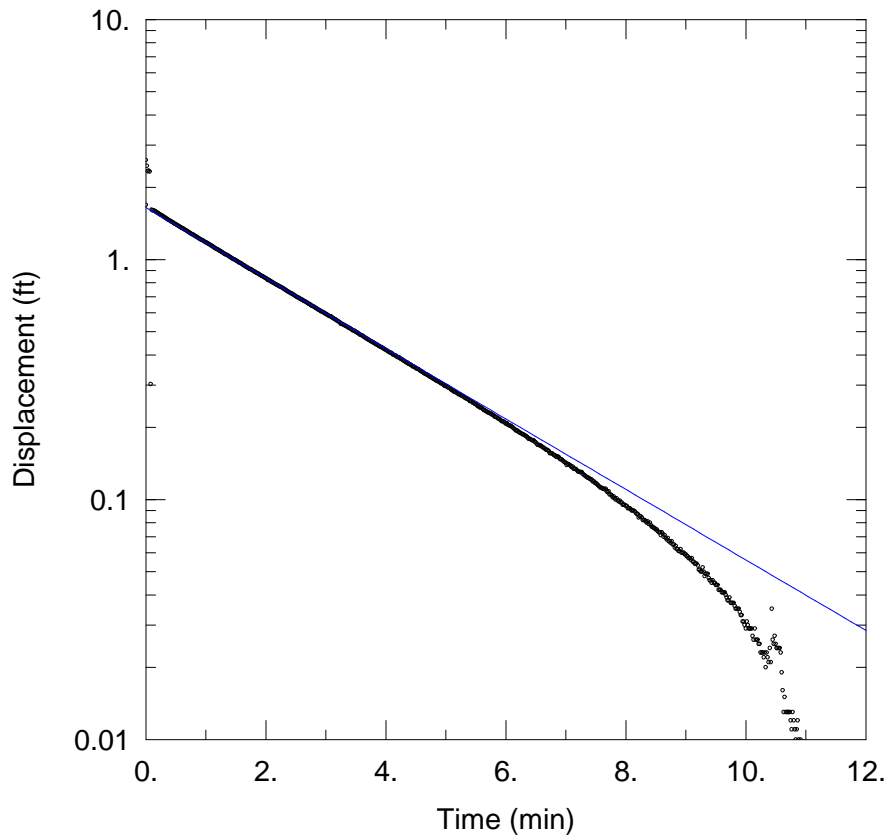
Total Well Penetration Depth: 6.23 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 87.95 ft

Screen Length: 3.23 ft

Well Radius: 0.3438 ft



9-100 FALLING HEAD TEST 2

Data Set: N:\...\9-100-FH2.aqt

Date: 05/02/13

Time: 08:57:39

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 9-100

Test Date: February 13, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0005487 cm/sec

y0 = 1.645 ft

AQUIFER DATA

Saturated Thickness: 6.23 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (9-100)

Initial Displacement: 1.688 ft

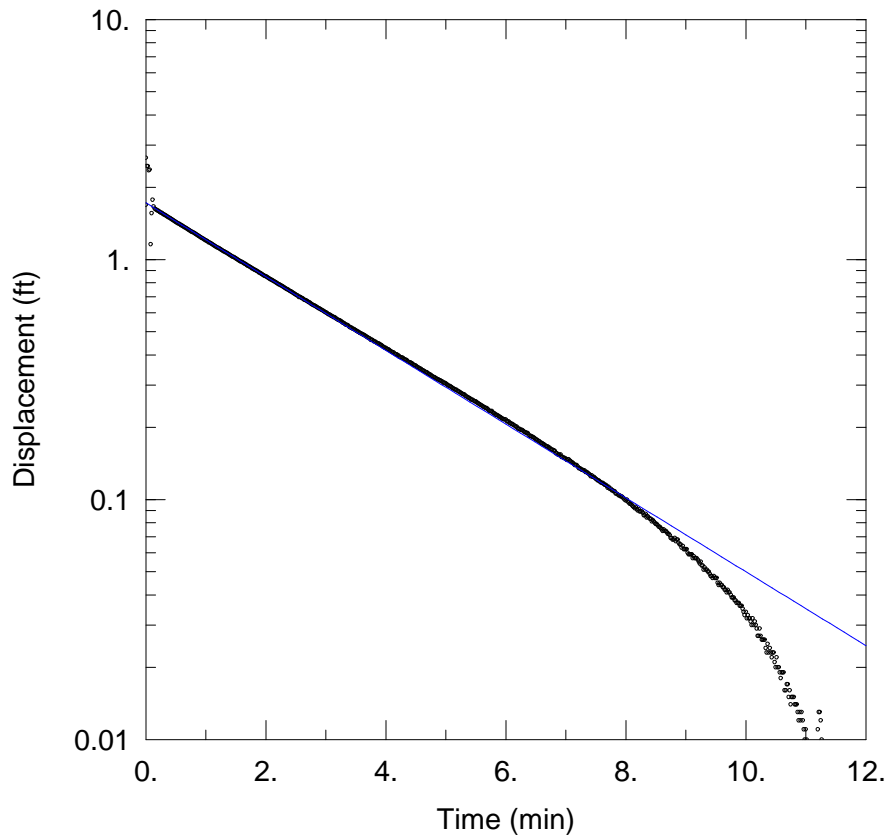
Total Well Penetration Depth: 6.23 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 87.95 ft

Screen Length: 3.23 ft

Well Radius: 0.3438 ft



9-100 FALLING HEAD TEST 3

Data Set: N:\...\9-100-FH3.aqt

Date: 05/02/13

Time: 08:57:24

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 9-100

Test Date: February 13, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.0005746$ cm/sec

$y_0 = 1.722$ ft

AQUIFER DATA

Saturated Thickness: 6.23 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (9-100)

Initial Displacement: 1.688 ft

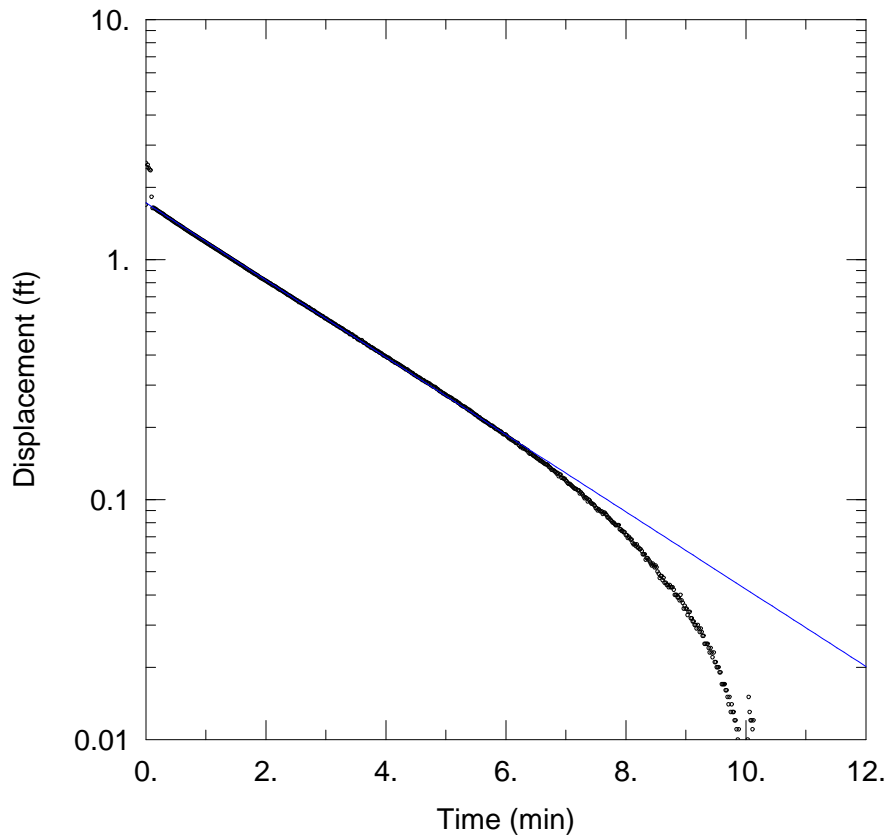
Total Well Penetration Depth: 6.23 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 87.95 ft

Screen Length: 3.23 ft

Well Radius: 0.3438 ft



9-100 FALLING HEAD TEST 4

Data Set: N:\...\9-100-FH4.aqt

Date: 05/02/13

Time: 08:57:08

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: 9-100

Test Date: February 13, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.0006017$ cm/sec

$y_0 = 1.722$ ft

AQUIFER DATA

Saturated Thickness: 6.23 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (9-100)

Initial Displacement: 1.688 ft

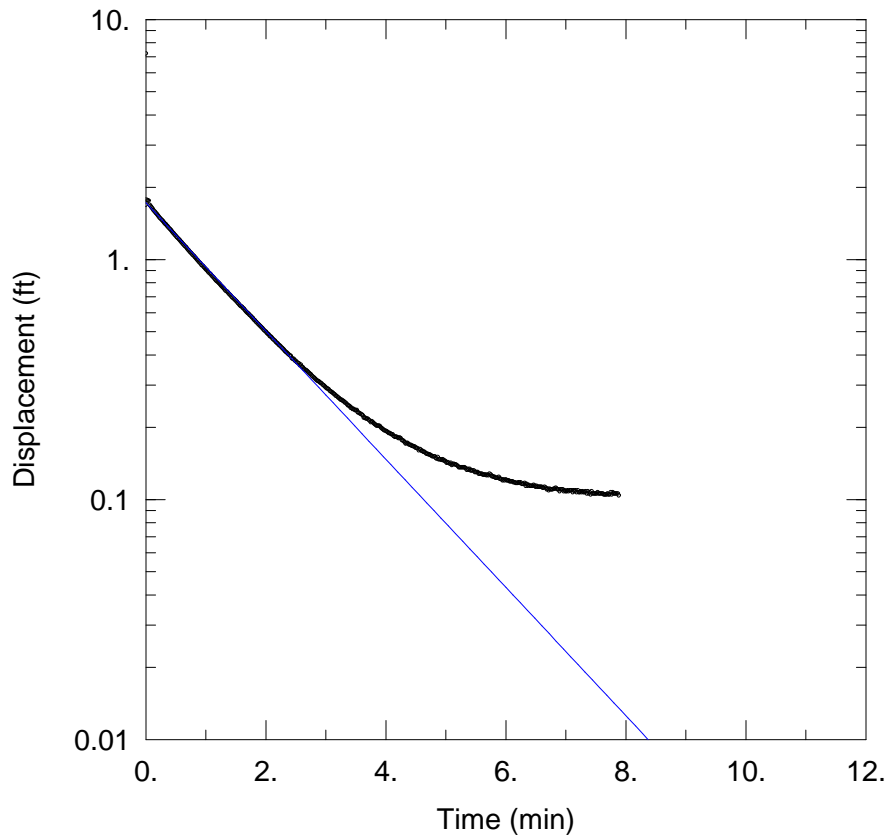
Total Well Penetration Depth: 6.23 ft

Casing Radius: 0.0835 ft

Static Water Column Height: 87.95 ft

Screen Length: 3.23 ft

Well Radius: 0.3438 ft



9-100 RISING HEAD TEST 1

Data Set: N:\...\9-100-RH1.aqt
 Date: 05/02/13 Time: 09:03:26

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 9-100
 Test Date: February 13, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0009986$ cm/sec
 $y_0 = 1.722$ ft

AQUIFER DATA

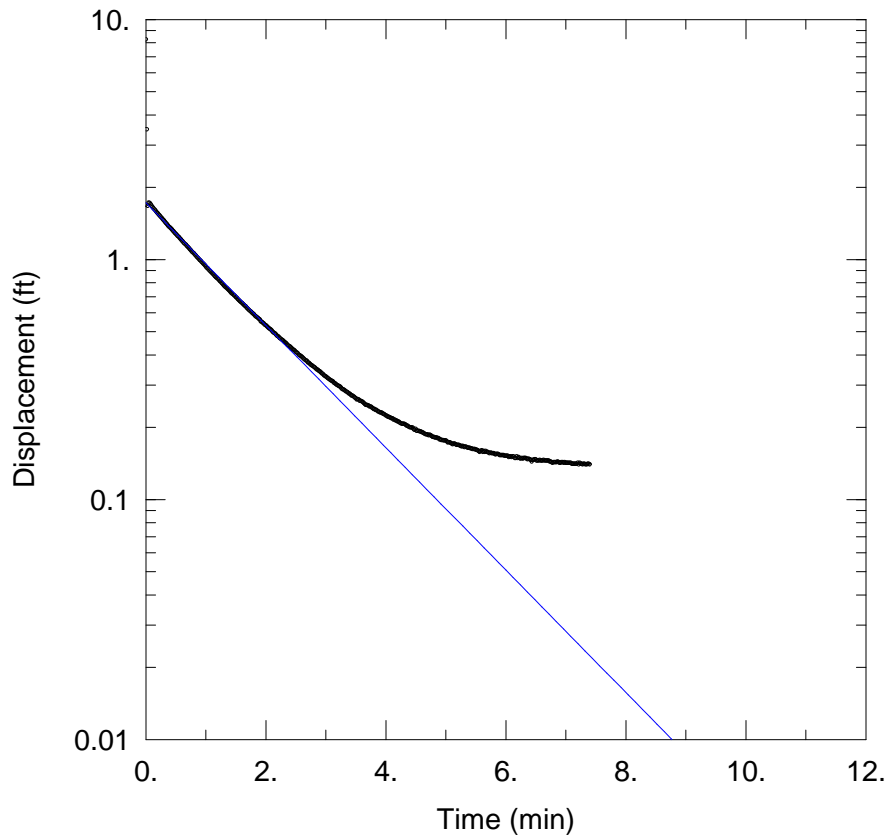
Saturated Thickness: 6.23 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (9-100)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 6.23 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 87.95 ft
 Screen Length: 3.23 ft
 Well Radius: 0.3438 ft



9-100 RISING HEAD TEST 2

Data Set: N:\...\9-100-RH2.aqt
 Date: 05/02/13 Time: 09:03:11

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 9-100
 Test Date: February 13, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0009536$ cm/sec
 $y_0 = 1.722$ ft

AQUIFER DATA

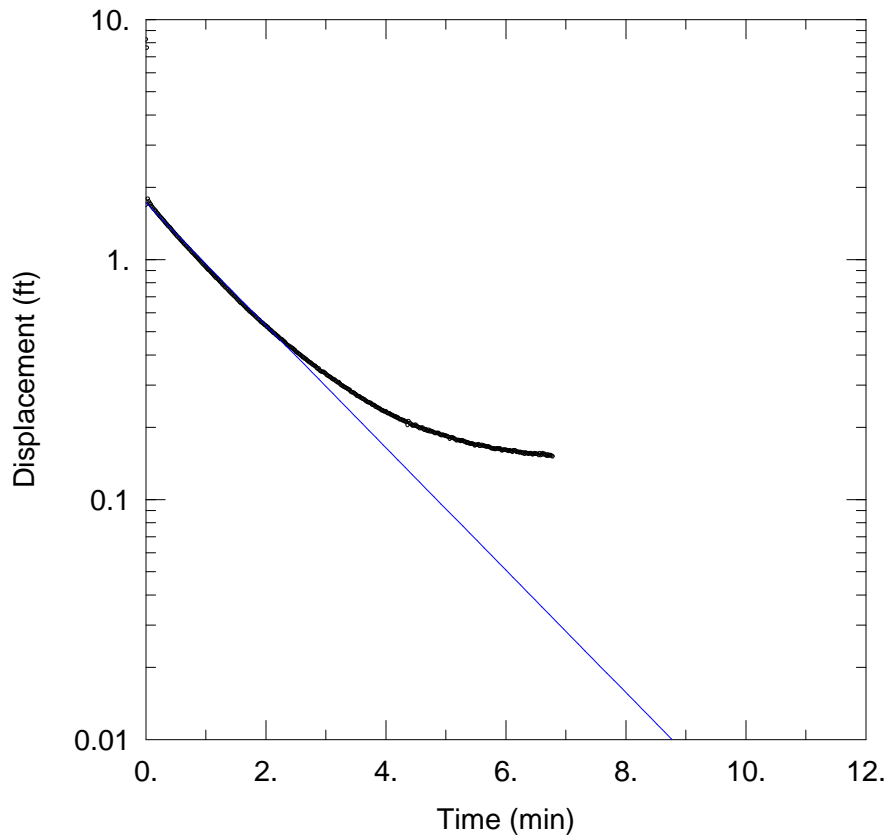
Saturated Thickness: 6.23 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (9-100)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 6.23 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 87.95 ft
 Screen Length: 3.23 ft
 Well Radius: 0.3438 ft



9-100 RISING HEAD TEST 3

Data Set: N:\...\9-100-RH3.aqt
 Date: 05/02/13 Time: 09:02:55

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 9-100
 Test Date: February 13, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0009536$ cm/sec
 $y_0 = 1.722$ ft

AQUIFER DATA

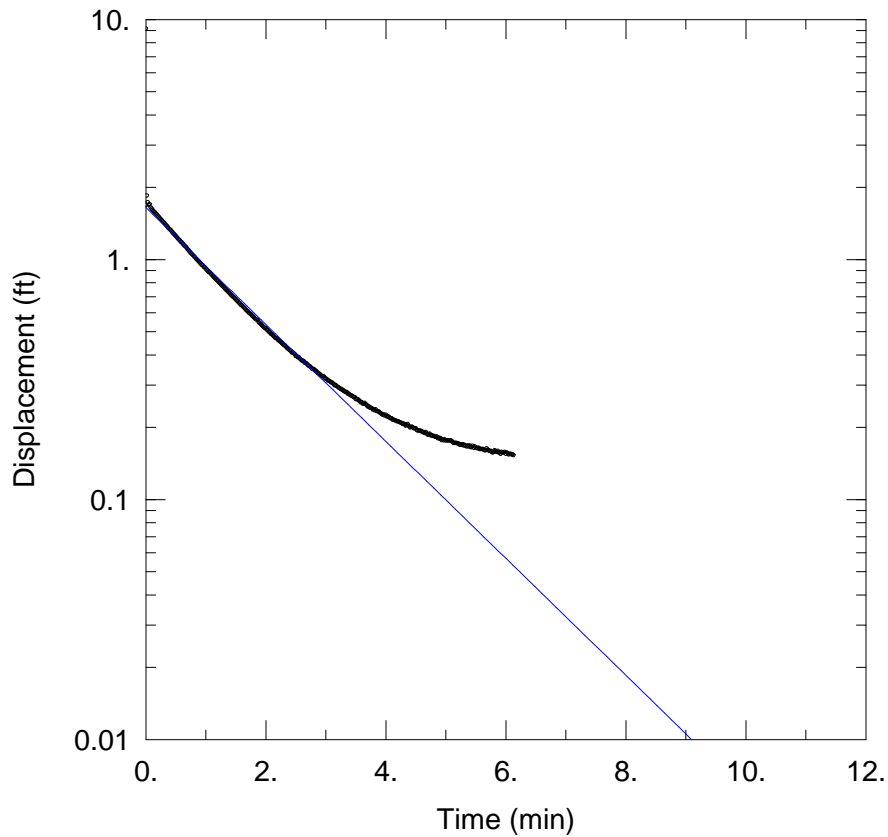
Saturated Thickness: 6.23 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (9-100)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 6.23 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 87.95 ft
 Screen Length: 3.23 ft
 Well Radius: 0.3438 ft



9-100 RISING HEAD TEST 4

Data Set: N:\...\9-100-RH4.aqt
 Date: 05/02/13 Time: 09:02:38

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 9-100
 Test Date: February 13, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0009107$ cm/sec
 $y_0 = 1.645$ ft

AQUIFER DATA

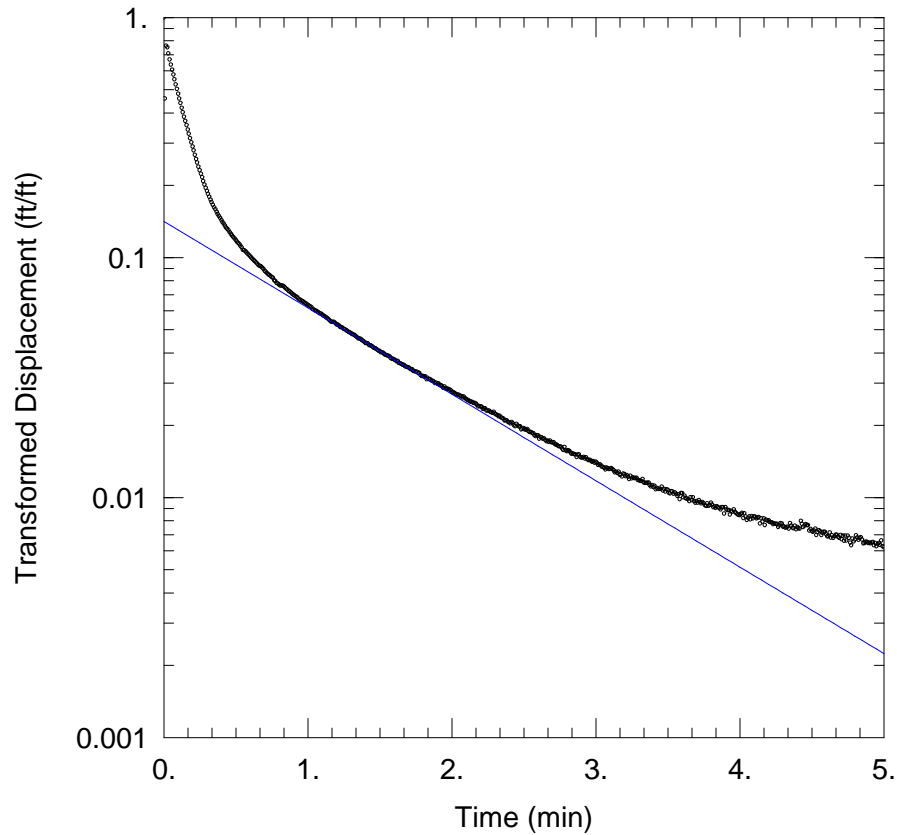
Saturated Thickness: 6.23 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (9-100)

Initial Displacement: 1.688 ft
 Total Well Penetration Depth: 6.23 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 87.95 ft
 Screen Length: 3.23 ft
 Well Radius: 0.3438 ft



95-15 RISING HEAD TEST 1

Data Set: N:\...\95-15-RH1.aqt
 Date: 05/07/13 Time: 09:49:31

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 95-15
 Test Date: January 30, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Dagan
 $K = 0.001903$ cm/sec
 $y_0 = 0.5972$ ft

AQUIFER DATA

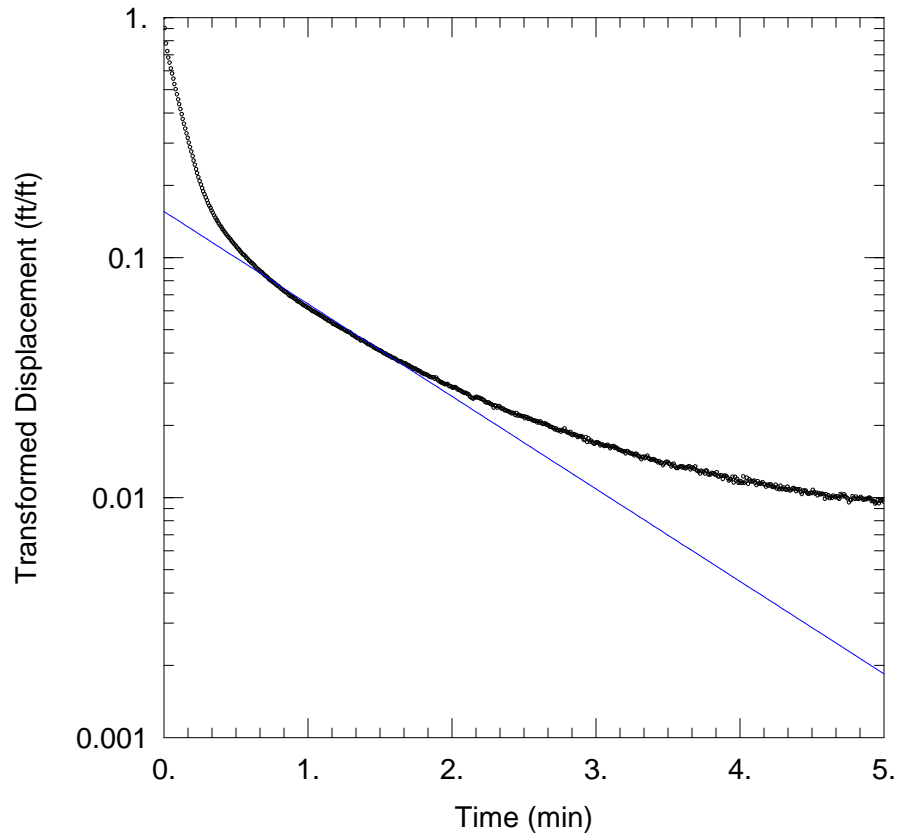
Saturated Thickness: 8.79 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (95-15)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7.19 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 7.19 ft
 Screen Length: 7.19 ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.3



95-15 RISING HEAD TEST 2

Data Set: N:\...\95-15-RH2.aqt
 Date: 05/07/13 Time: 09:49:19

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 95-15
 Test Date: January 30, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Dagan
 $K = 0.002036$ cm/sec
 $y0 = 0.6548$ ft

AQUIFER DATA

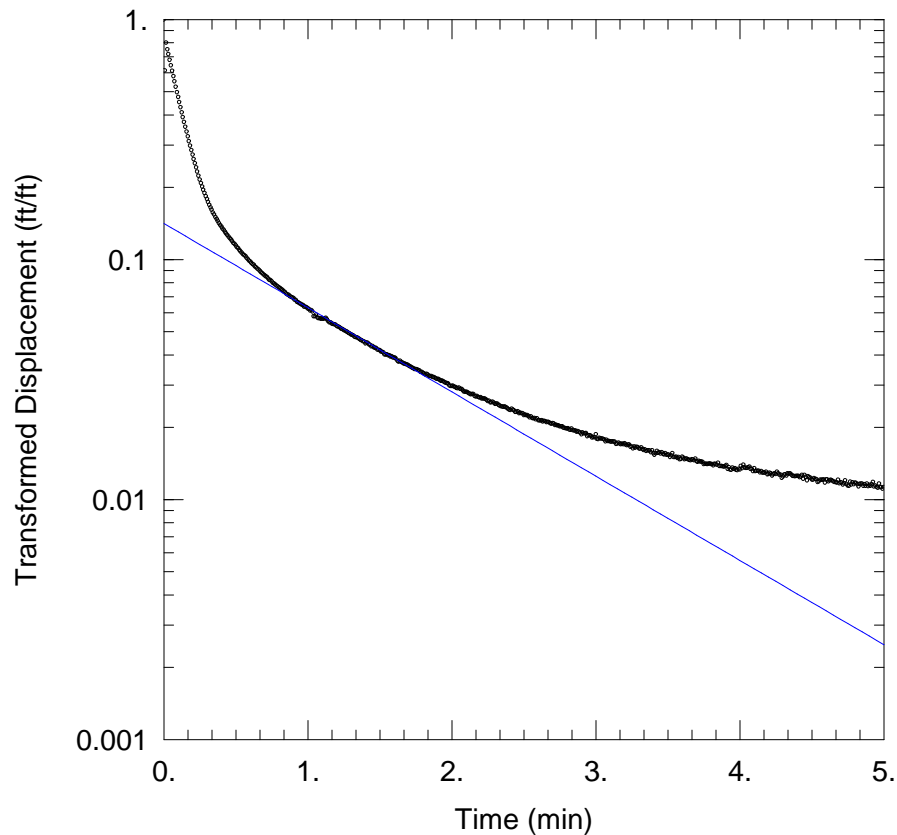
Saturated Thickness: 8.79 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (95-15)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7.19 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 7.19 ft
 Screen Length: 7.19 ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.3



95-15 RISING HEAD TEST 3

Data Set: N:\...\95-15-RH3.aqt
 Date: 05/07/13 Time: 09:49:04

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 95-15
 Test Date: January 30, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Dagan
 $K = 0.001855$ cm/sec
 $y_0 = 0.5972$ ft

AQUIFER DATA

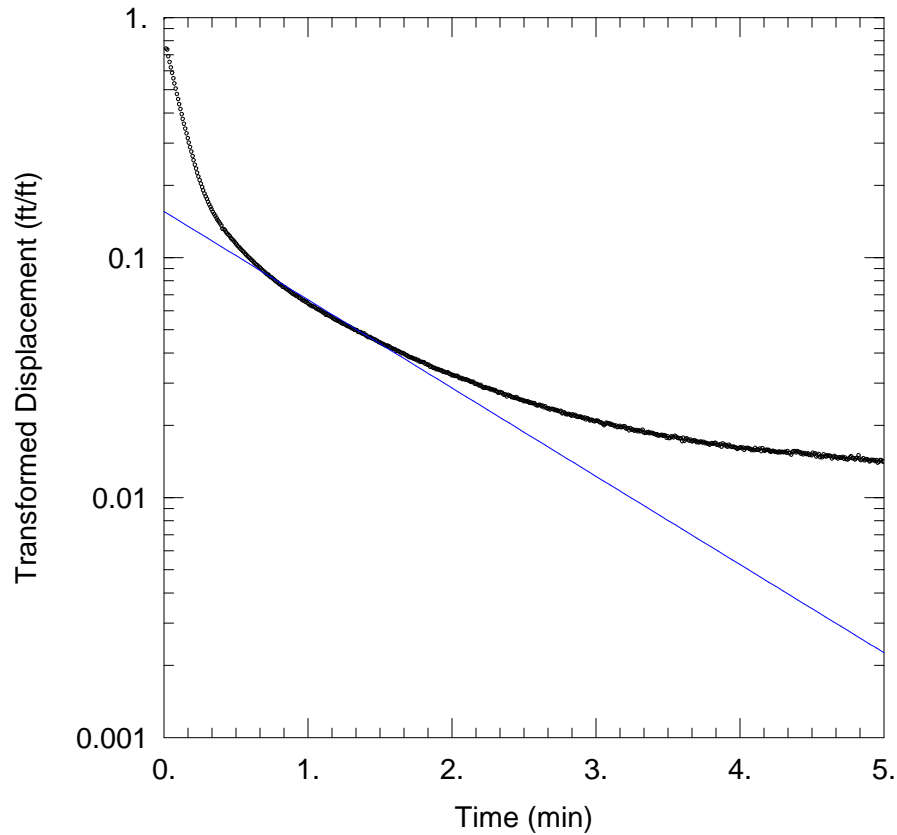
Saturated Thickness: 8.79 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (95-15)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7.19 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 7.19 ft
 Screen Length: 7.19 ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.3



95-15 RISING HEAD TEST 4

Data Set: N:\...\95-15-RH4.aqt
 Date: 05/07/13 Time: 09:48:48

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 95-15
 Test Date: January 30, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Dagan
 $K = 0.001943$ cm/sec
 $y0 = 0.6548$ ft

AQUIFER DATA

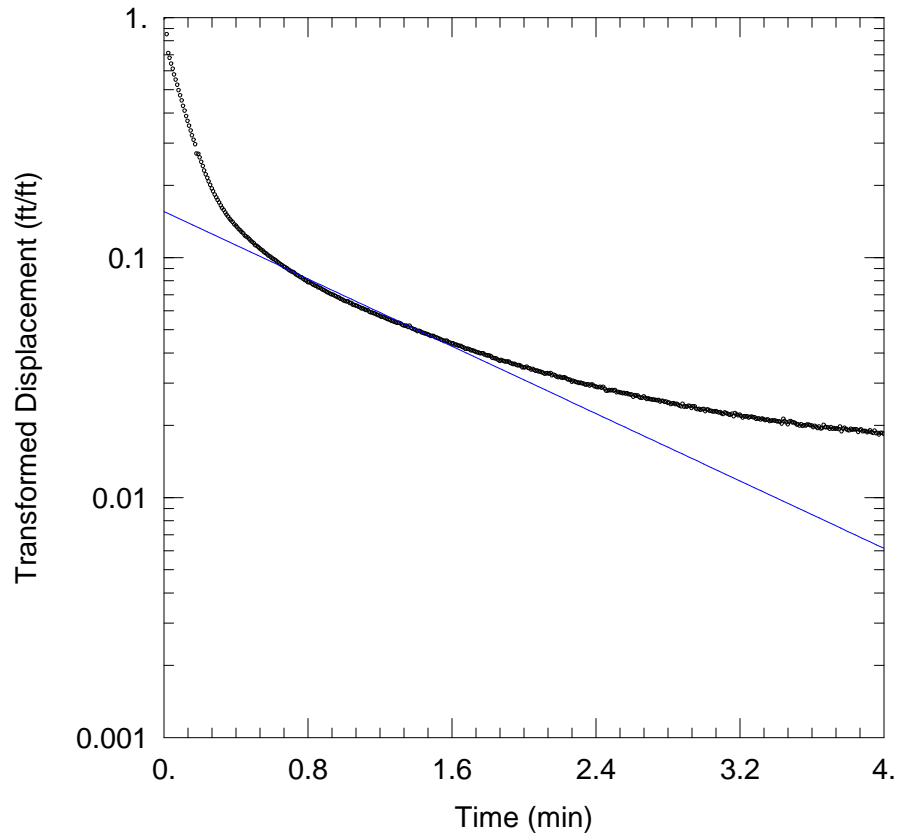
Saturated Thickness: 8.79 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (95-15)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7.19 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 7.19 ft
 Screen Length: 7.19 ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.3



95-15 RISING HEAD TEST 5

Data Set: N:\...\95-15-RH5.aqt
 Date: 05/07/13 Time: 09:48:32

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: 95-15
 Test Date: January 30, 2013

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Dagan
 K = 0.001855 cm/sec
 y0 = 0.6548 ft

AQUIFER DATA

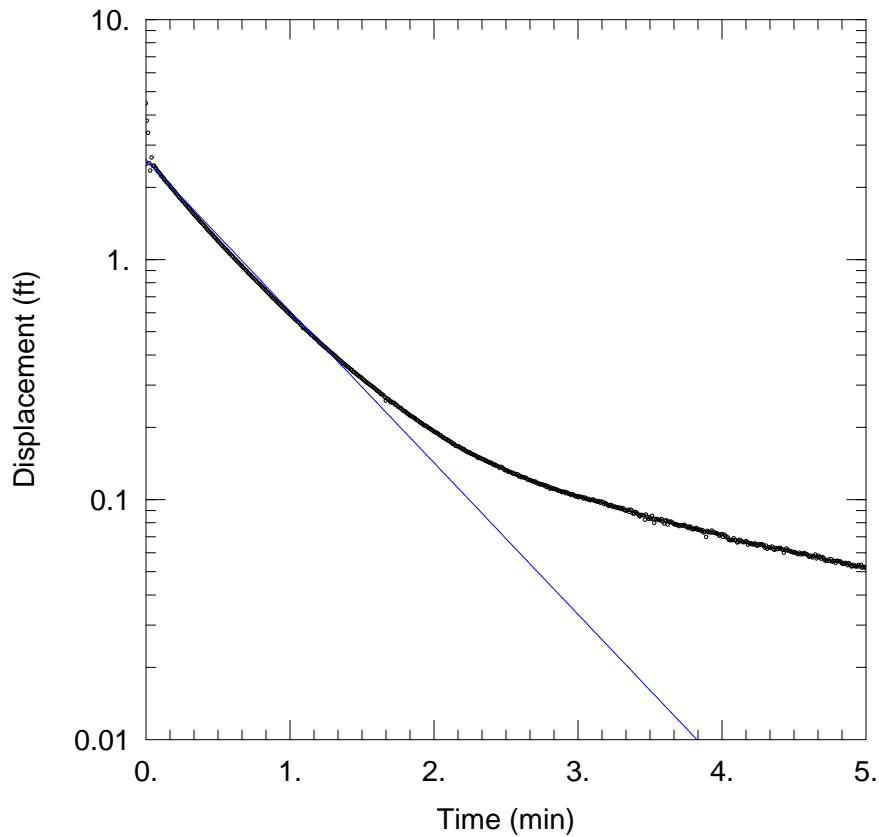
Saturated Thickness: 8.79 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (95-15)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7.19 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 7.19 ft
 Screen Length: 7.19 ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.3



PZ-SHI-2-100 FALLING HEAD TEST 1

Data Set: N:\...\PZ-SHI-2-100-FH1.aqt

Date: 05/10/13

Time: 16:32:08

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: PZ-SHI-2-100

Test Date: March 2, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.001583 cm/sec

y0 = 2.607 ft

AQUIFER DATA

Saturated Thickness: 10.48 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (PZ-SHI-2-100)

Initial Displacement: 2.5 ft

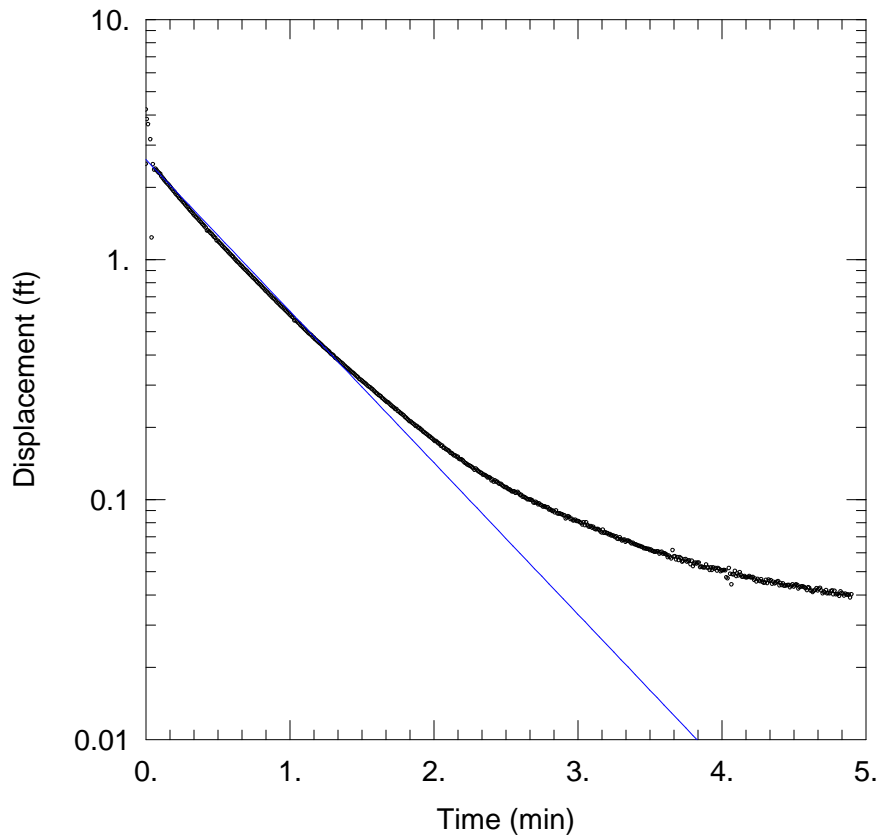
Total Well Penetration Depth: 10. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 90.19 ft

Screen Length: 5. ft

Well Radius: 0.3542 ft



PZ-SHI-2-100 FALLING HEAD TEST 2

Data Set: N:\...\PZ-SHI-2-100-FH2.aqt

Date: 05/10/13

Time: 16:31:56

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: PZ-SHI-2-100

Test Date: March 2, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.001583 cm/sec

y0 = 2.607 ft

AQUIFER DATA

Saturated Thickness: 10.48 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (PZ-SHI-2-100)

Initial Displacement: 2.5 ft

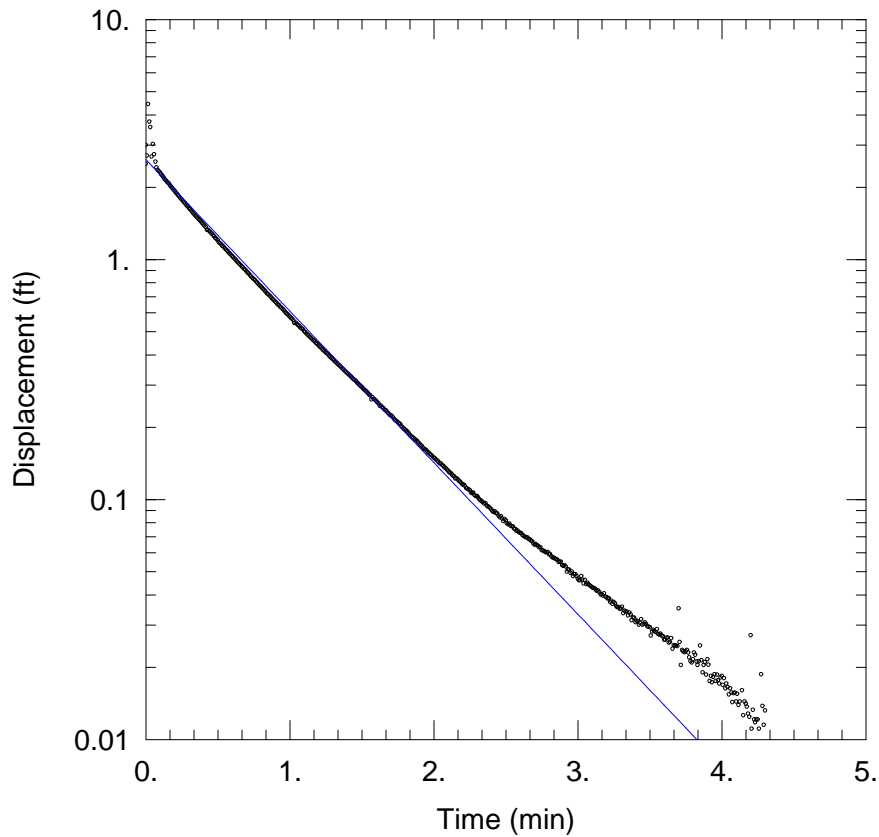
Total Well Penetration Depth: 10. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 90.19 ft

Screen Length: 5. ft

Well Radius: 0.3542 ft



PZ-SHI-2-100 FALLING HEAD TEST 3

Data Set: N:\...\PZ-SHI-2-100-FH3.aqt

Date: 05/10/13

Time: 16:31:44

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: PZ-SHI-2-100

Test Date: March 2, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.001583 cm/sec

y0 = 2.607 ft

AQUIFER DATA

Saturated Thickness: 10.48 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (PZ-SHI-2-100)

Initial Displacement: 2.5 ft

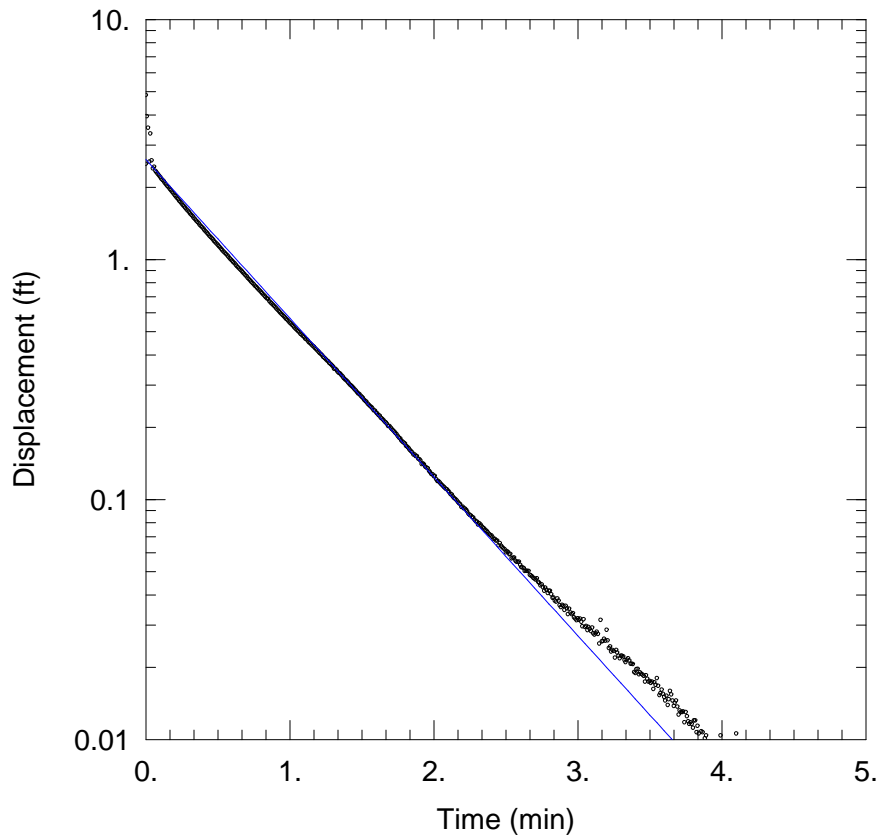
Total Well Penetration Depth: 10. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 90.19 ft

Screen Length: 5. ft

Well Radius: 0.3542 ft



PZ-SHI-2-100 FALLING HEAD TEST 4

Data Set: N:\...\PZ-SHI-2-100-FH4.aqt

Date: 05/10/13

Time: 16:31:34

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: PZ-SHI-2-100

Test Date: March 2, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.001657 cm/sec

y0 = 2.607 ft

AQUIFER DATA

Saturated Thickness: 10.48 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (PZ-SHI-2-100)

Initial Displacement: 2.5 ft

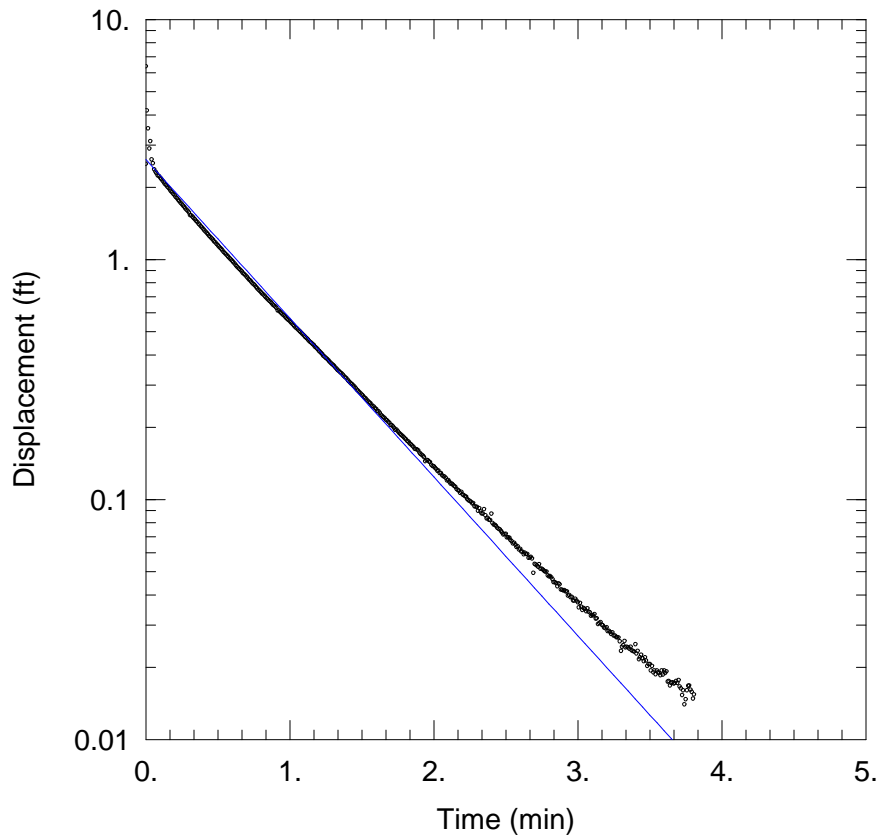
Total Well Penetration Depth: 10. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 90.19 ft

Screen Length: 5. ft

Well Radius: 0.3542 ft



PZ-SHI-2-100 FALLING HEAD TEST 5

Data Set: N:\...\PZ-SHI-2-100-FH5.aqt

Date: 05/10/13

Time: 16:31:22

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: PZ-SHI-2-100

Test Date: March 2, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.001657$ cm/sec

$y_0 = 2.607$ ft

AQUIFER DATA

Saturated Thickness: 10.48 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (PZ-SHI-2-100)

Initial Displacement: 2.5 ft

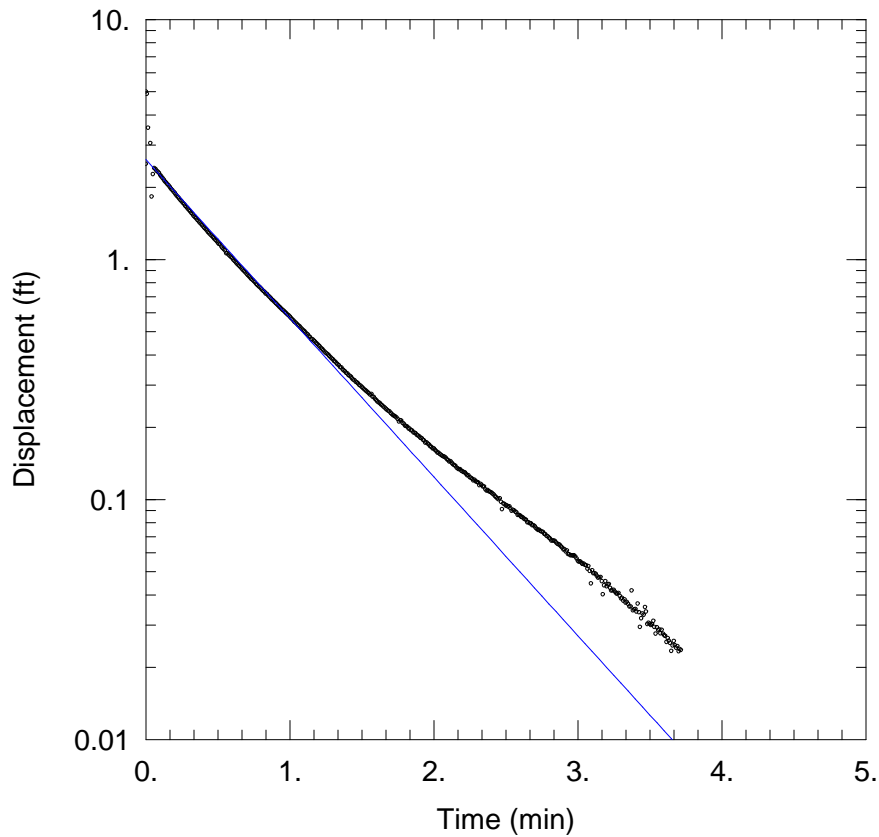
Total Well Penetration Depth: 10. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 90.19 ft

Screen Length: 5. ft

Well Radius: 0.3542 ft



PZ-SHI-2-100 FALLING HEAD TEST 6

Data Set: N:\...\PZ-SHI-2-100-FH6.aqt

Date: 05/10/13

Time: 16:31:10

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: PZ-SHI-2-100

Test Date: March 2, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.001657$ cm/sec

$y_0 = 2.607$ ft

AQUIFER DATA

Saturated Thickness: 10.48 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (PZ-SHI-2-100)

Initial Displacement: 2.5 ft

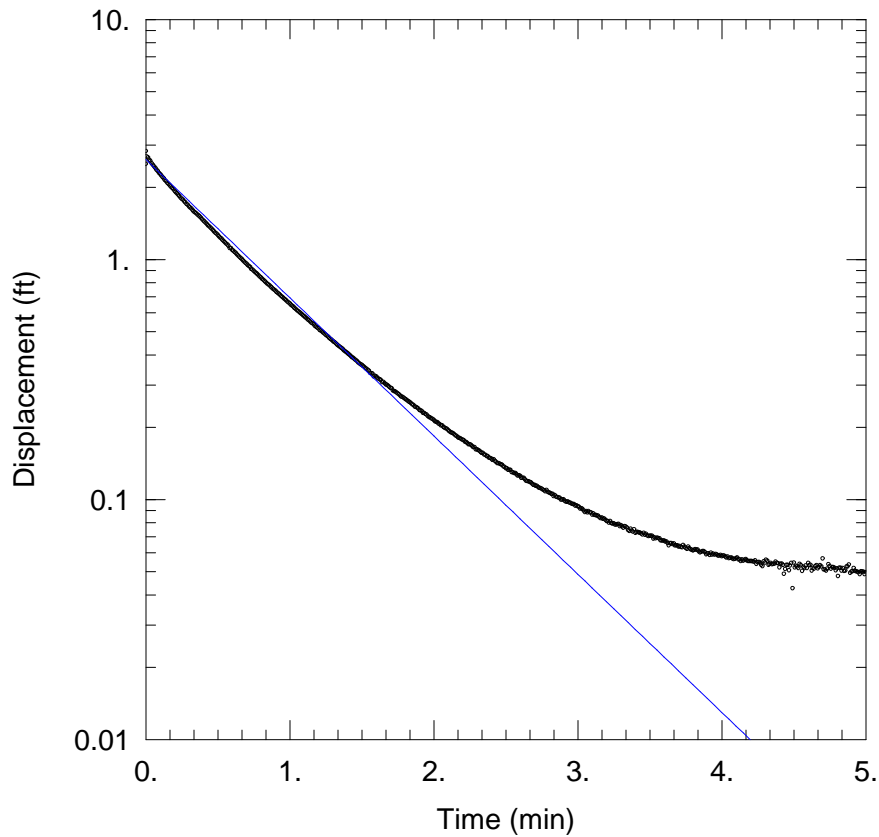
Total Well Penetration Depth: 10. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 90.19 ft

Screen Length: 5. ft

Well Radius: 0.3542 ft



PZ-SHI-2-100 RISING HEAD TEST 1

Data Set: N:\...\PZ-SHI-2-100-RH1.aqt

Date: 05/10/13

Time: 16:36:55

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: PZ-SHI-2-100

Test Date: March 2, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.001443 cm/sec

y0 = 2.607 ft

AQUIFER DATA

Saturated Thickness: 10.48 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (PZ-SHI-2-100)

Initial Displacement: 2.5 ft

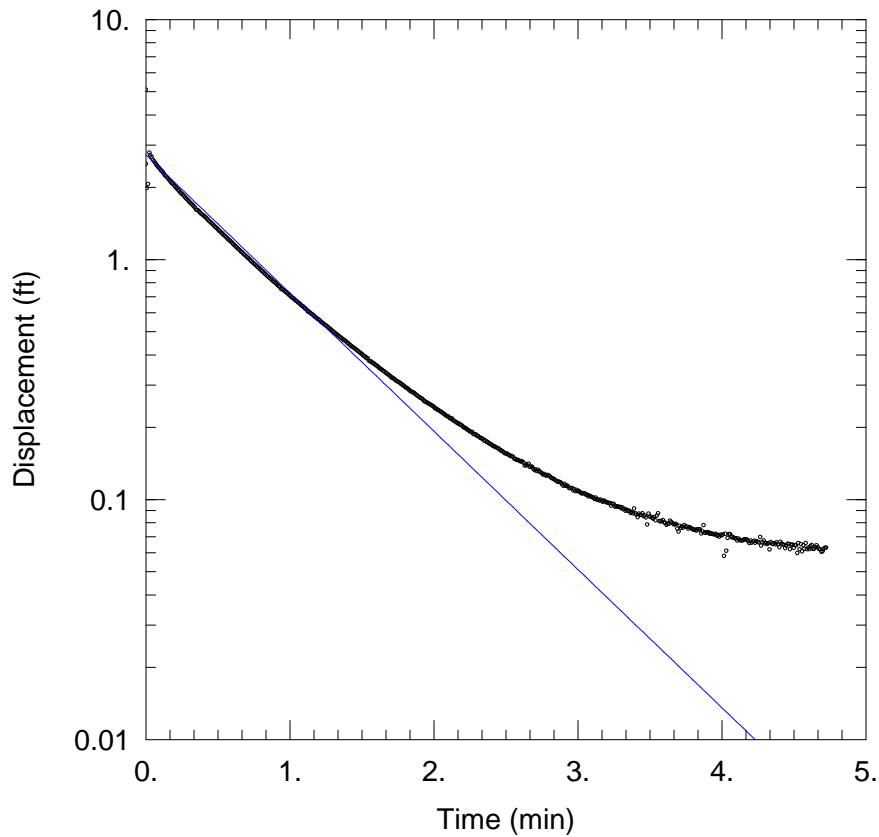
Total Well Penetration Depth: 10. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 90.19 ft

Screen Length: 5. ft

Well Radius: 0.3542 ft



PZ-SHI-2-100 RISING HEAD TEST 2

Data Set: N:\...\PZ-SHI-2-100-RH2.aqt

Date: 05/10/13

Time: 16:36:43

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: PZ-SHI-2-100

Test Date: March 2, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.001443$ cm/sec

$y_0 = 2.73$ ft

AQUIFER DATA

Saturated Thickness: 10.48 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (PZ-SHI-2-100)

Initial Displacement: 2.5 ft

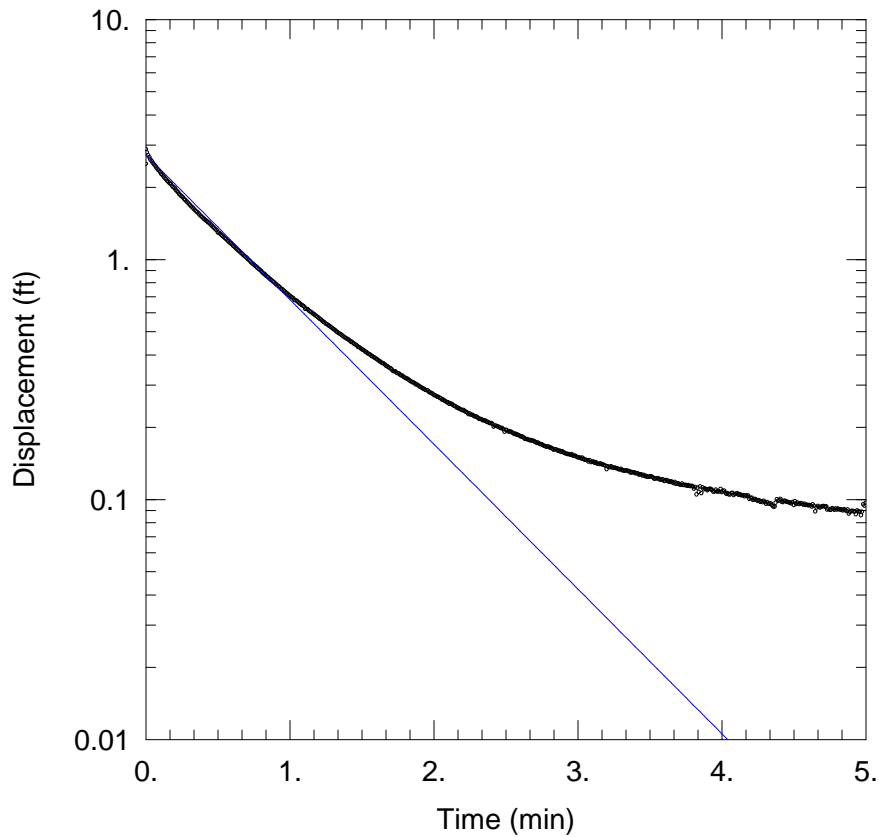
Total Well Penetration Depth: 10. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 90.19 ft

Screen Length: 5. ft

Well Radius: 0.3542 ft



PZ-SHI-2-100 RISING HEAD TEST 3

Data Set: N:\...\PZ-SHI-2-100-RH3.aqt

Date: 05/10/13

Time: 16:36:32

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: PZ-SHI-2-100

Test Date: March 2, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.001511 cm/sec

y0 = 2.73 ft

AQUIFER DATA

Saturated Thickness: 10.48 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (PZ-SHI-2-100)

Initial Displacement: 2.5 ft

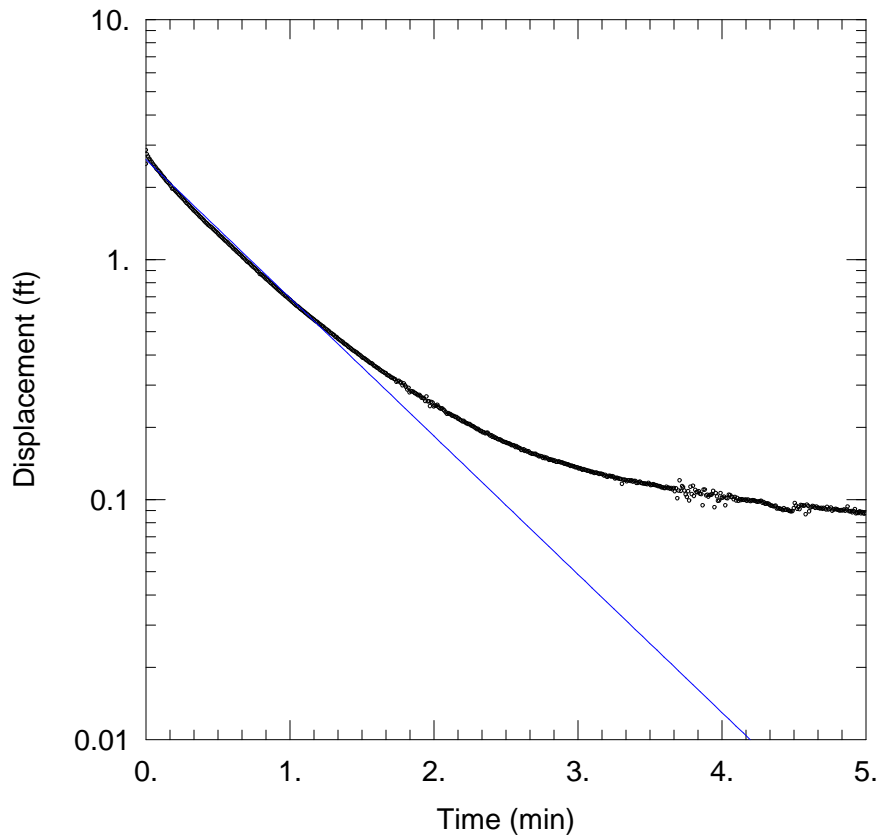
Total Well Penetration Depth: 10. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 90.19 ft

Screen Length: 5. ft

Well Radius: 0.3542 ft



PZ-SHI-2-100 RISING HEAD TEST 4

Data Set: N:\...\PZ-SHI-2-100-RH4.aqt

Date: 05/10/13

Time: 16:36:21

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: PZ-SHI-2-100

Test Date: March 2, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.001443 cm/sec

y0 = 2.607 ft

AQUIFER DATA

Saturated Thickness: 10.48 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (PZ-SHI-2-100)

Initial Displacement: 2.5 ft

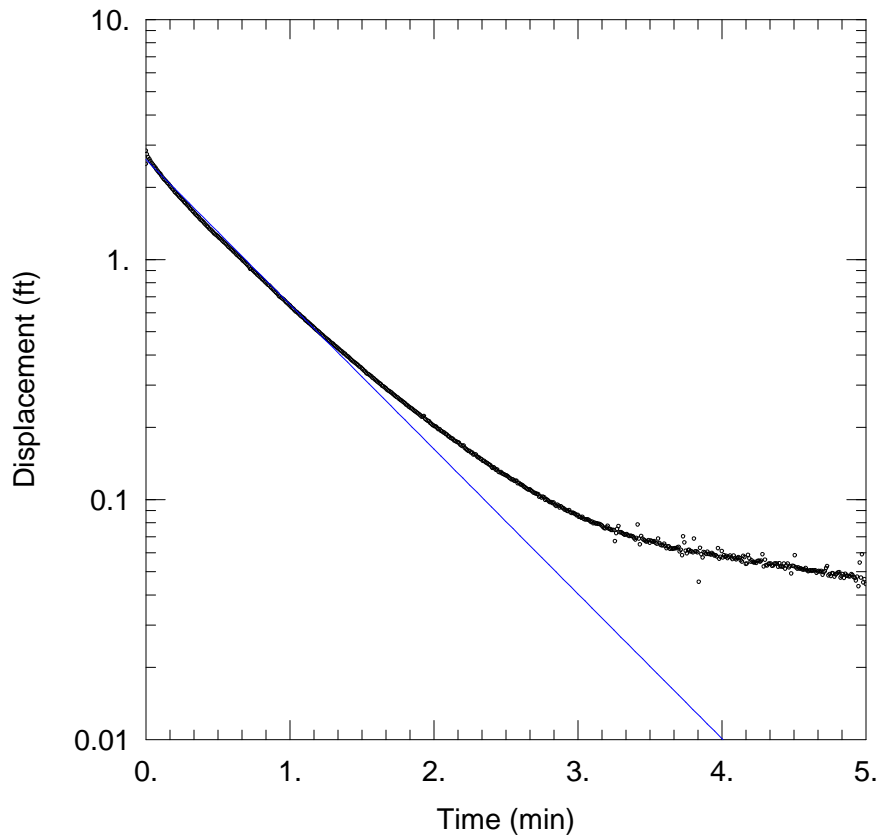
Total Well Penetration Depth: 10. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 90.19 ft

Screen Length: 5. ft

Well Radius: 0.3542 ft



PZ-SHI-2-100 RISING HEAD TEST 5

Data Set: N:\...\PZ-SHI-2-100-RH5.aqt

Date: 05/10/13

Time: 16:36:09

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: PZ-SHI-2-100

Test Date: March 2, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.001511 cm/sec

y0 = 2.607 ft

AQUIFER DATA

Saturated Thickness: 10.48 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (PZ-SHI-2-100)

Initial Displacement: 2.5 ft

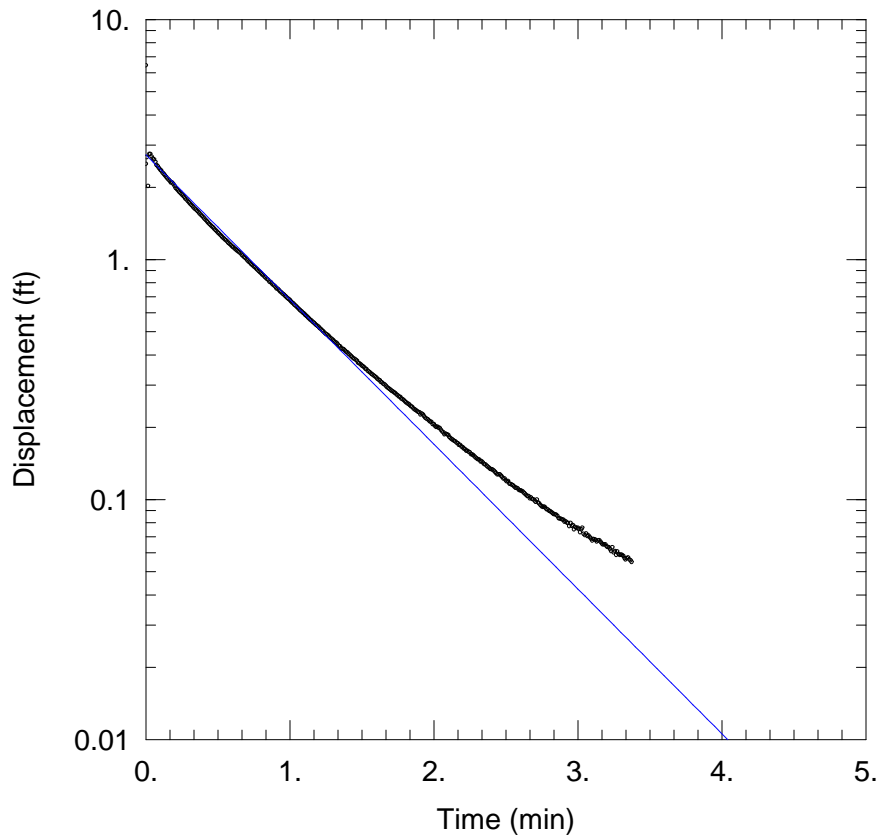
Total Well Penetration Depth: 10. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 90.19 ft

Screen Length: 5. ft

Well Radius: 0.3542 ft



PZ-SHI-2-100 RISING HEAD TEST 6

Data Set: N:\...\PZ-SHI-2-100-RH6.aqt

Date: 05/10/13

Time: 16:35:57

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: PZ-SHI-2-100

Test Date: March 2, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.001511 cm/sec

y0 = 2.73 ft

AQUIFER DATA

Saturated Thickness: 10.48 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (PZ-SHI-2-100)

Initial Displacement: 2.5 ft

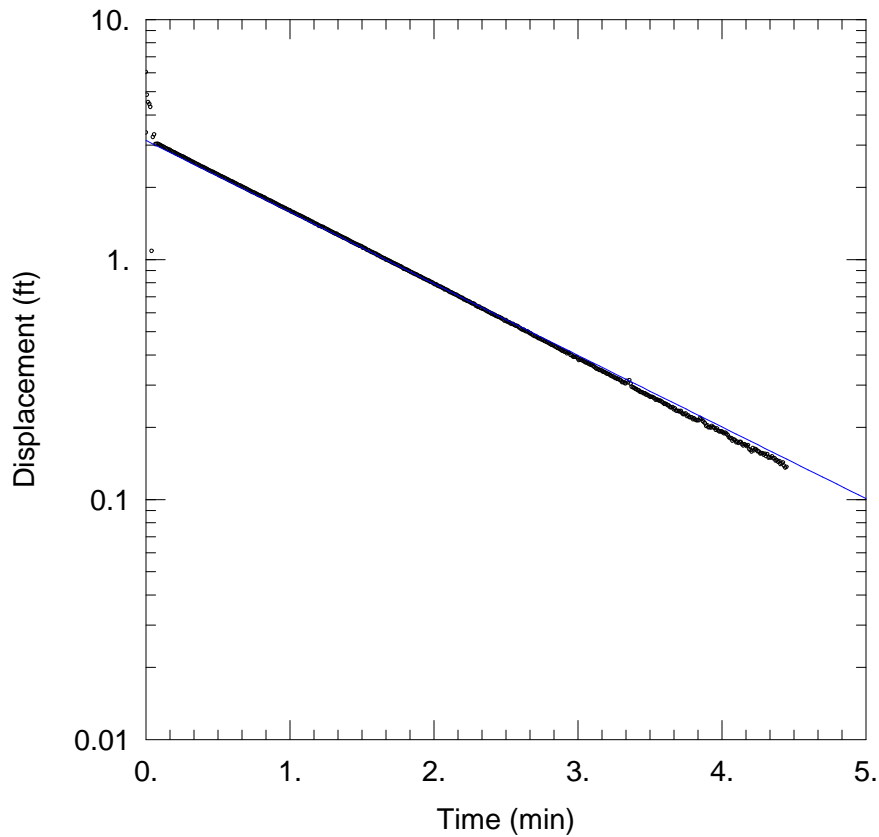
Total Well Penetration Depth: 10. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 90.19 ft

Screen Length: 5. ft

Well Radius: 0.3542 ft



T3-50 FALLING HEAD TEST 1

Data Set: N:\...\T3-50-FH1.aqt

Date: 05/10/13

Time: 16:47:00

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: T3-50

Test Date: February 27, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0006908 cm/sec

y0 = 3.134 ft

AQUIFER DATA

Saturated Thickness: 8.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (T3-50)

Initial Displacement: 3.375 ft

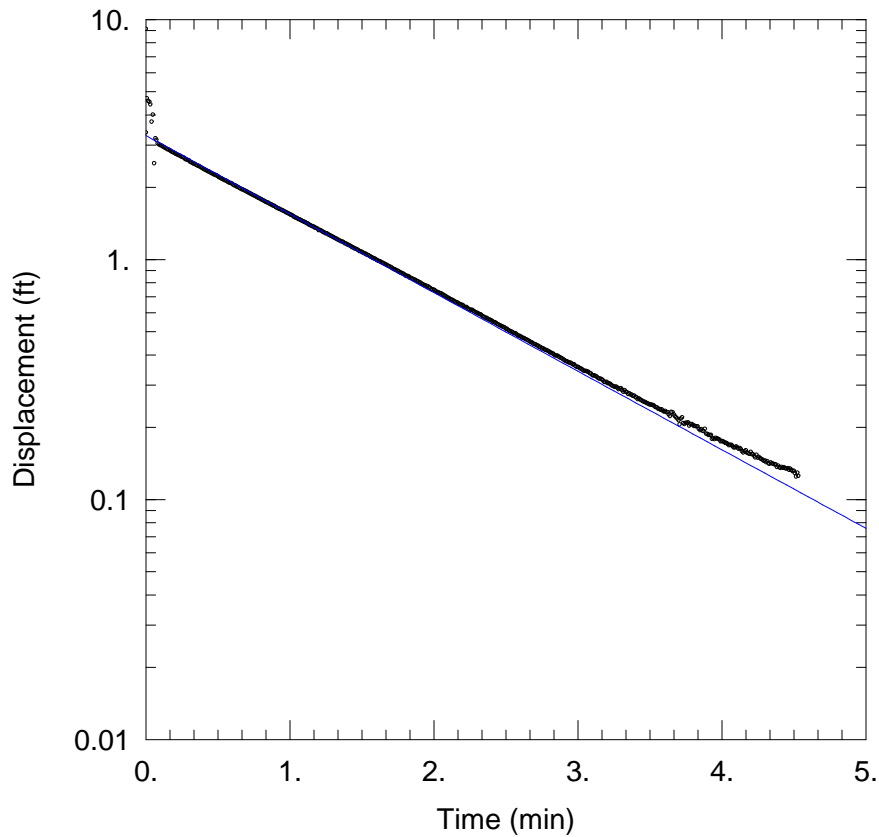
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.34 ft

Screen Length: 5. ft

Well Radius: 0.333 ft



T3-50 FALLING HEAD TEST 2

Data Set: N:\...\T3-50-FH2.aqt

Date: 05/10/13

Time: 16:46:49

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: T3-50

Test Date: February 27, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0007575 cm/sec

y0 = 3.282 ft

AQUIFER DATA

Saturated Thickness: 8.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (T3-50)

Initial Displacement: 3.375 ft

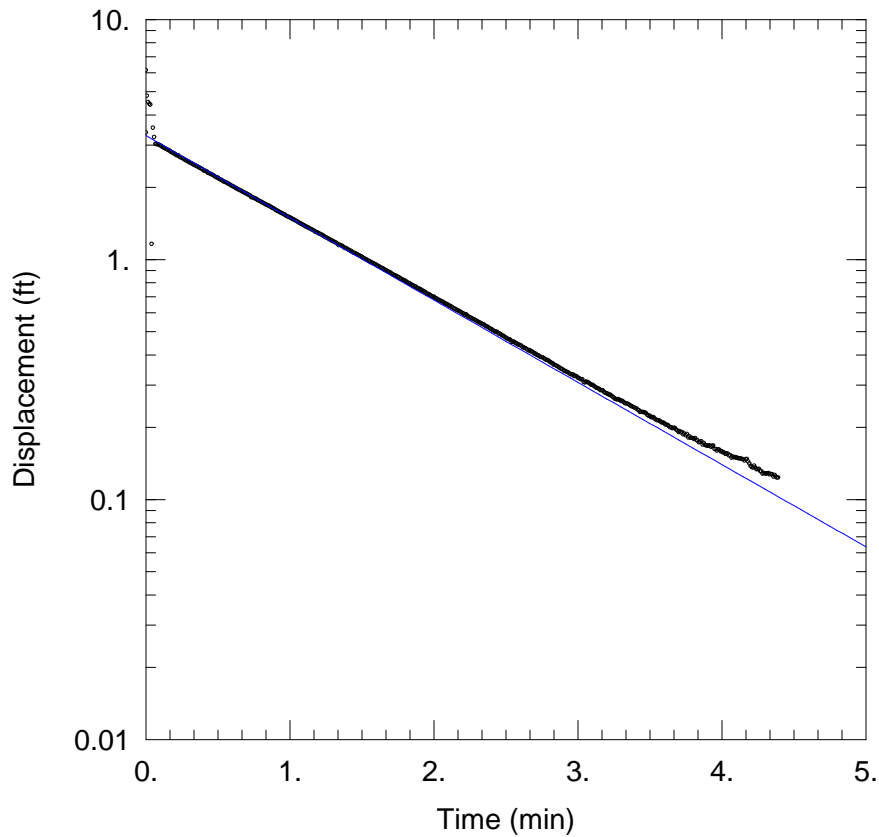
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.34 ft

Screen Length: 5. ft

Well Radius: 0.333 ft



T3-50 FALLING HEAD TEST 3

Data Set: N:\...\T3-50-FH3.aqt

Date: 05/10/13

Time: 16:46:37

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: T3-50

Test Date: February 27, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.0007932$ cm/sec

$y_0 = 3.282$ ft

AQUIFER DATA

Saturated Thickness: 8.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (T3-50)

Initial Displacement: 3.375 ft

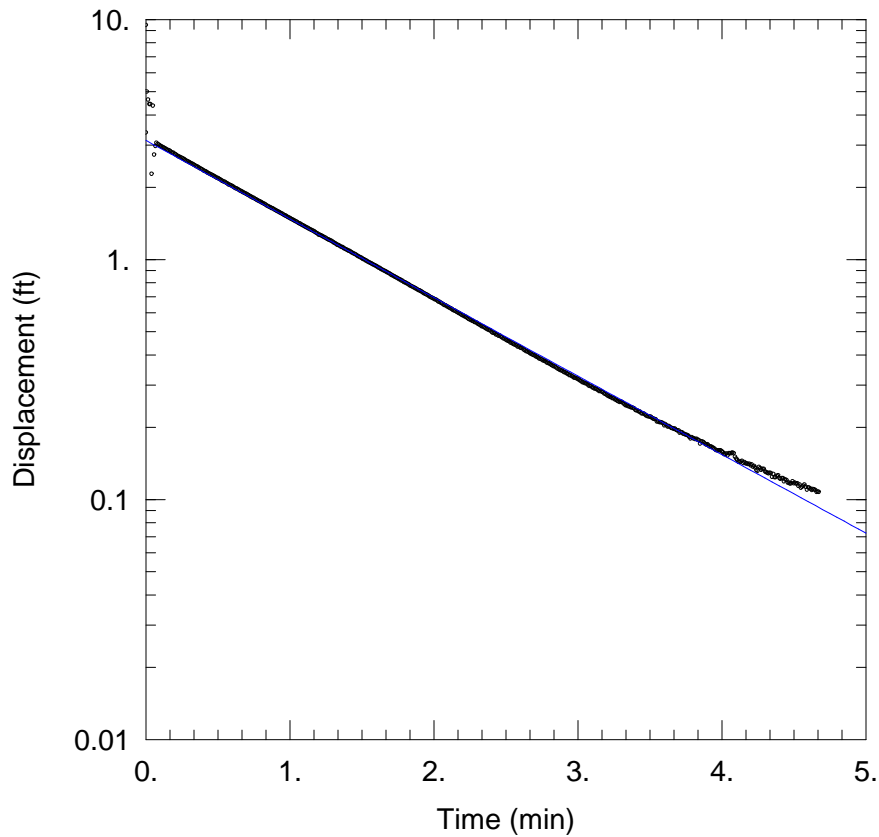
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.34 ft

Screen Length: 5. ft

Well Radius: 0.333 ft



T3-50 FALLING HEAD TEST 4

Data Set: N:\...\T3-50-FH4.aqt

Date: 05/10/13

Time: 16:46:25

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: T3-50

Test Date: February 27, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0007575 cm/sec

y0 = 3.134 ft

AQUIFER DATA

Saturated Thickness: 8.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (T3-50)

Initial Displacement: 3.375 ft

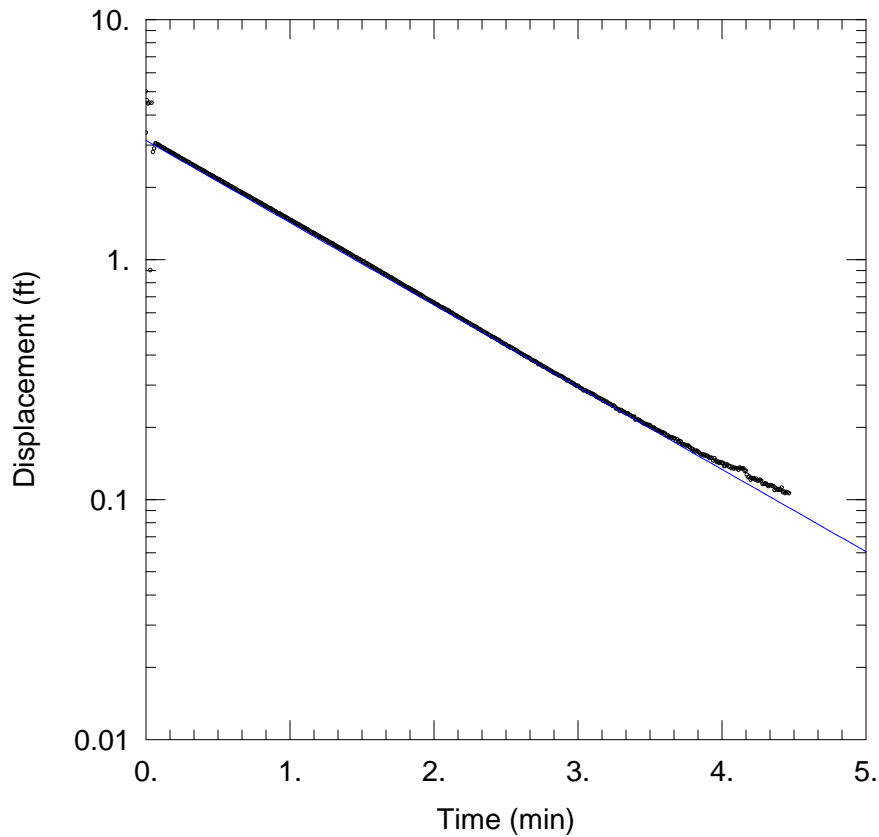
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.34 ft

Screen Length: 5. ft

Well Radius: 0.333 ft



T3-50 FALLING HEAD TEST 5

Data Set: N:\...\T3-50-FH5.aqt
 Date: 05/10/13 Time: 16:46:15

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: T3-50
 Test Date: February 27, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0007932$ cm/sec
 $y_0 = 3.134$ ft

AQUIFER DATA

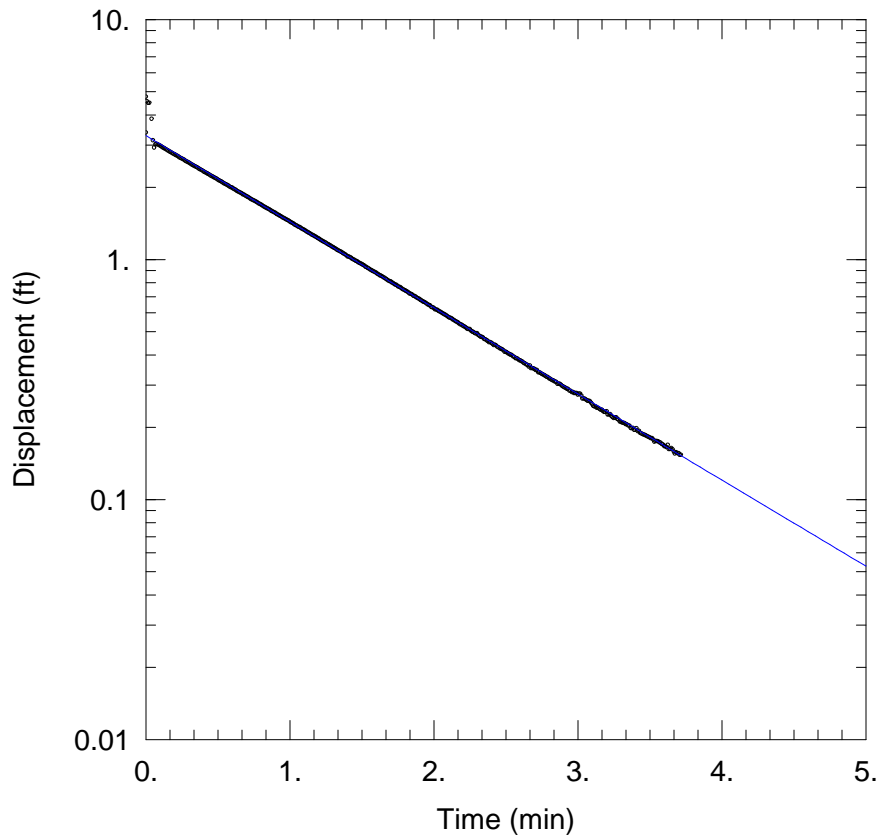
Saturated Thickness: 8.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (T3-50)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 40.34 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



T3-50 FALLING HEAD TEST 6

Data Set: N:\...\T3-50-FH6.aqt

Date: 05/10/13

Time: 16:46:01

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates

Client: Occidental Chemical Corp.

Project: 007843-A6-403

Location: Tacoma, WA

Test Well: T3-50

Test Date: February 27, 2013

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.0008306 cm/sec

y0 = 3.282 ft

AQUIFER DATA

Saturated Thickness: 8.5 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (T3-50)

Initial Displacement: 3.375 ft

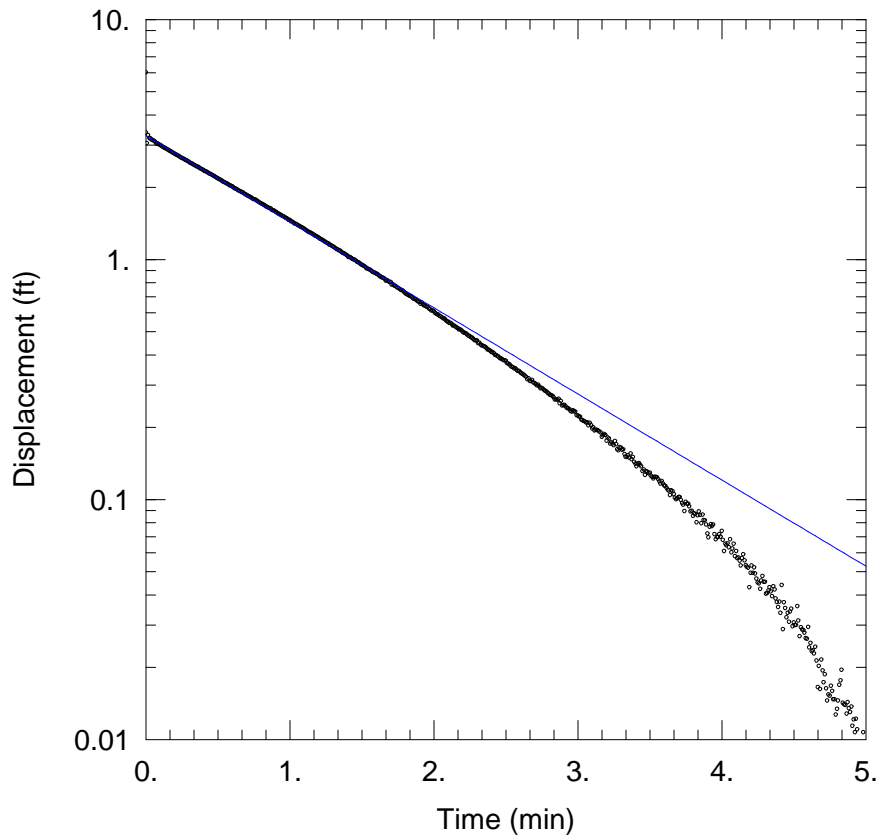
Total Well Penetration Depth: 7. ft

Casing Radius: 0.0835 ft

Static Water Column Height: 40.34 ft

Screen Length: 5. ft

Well Radius: 0.333 ft



T3-50 RISING HEAD TEST 1

Data Set: N:\...\T3-50-RH1.aqt
 Date: 05/10/13 Time: 16:51:35

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: T3-50
 Test Date: February 27, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0008306$ cm/sec
 $y_0 = 3.282$ ft

AQUIFER DATA

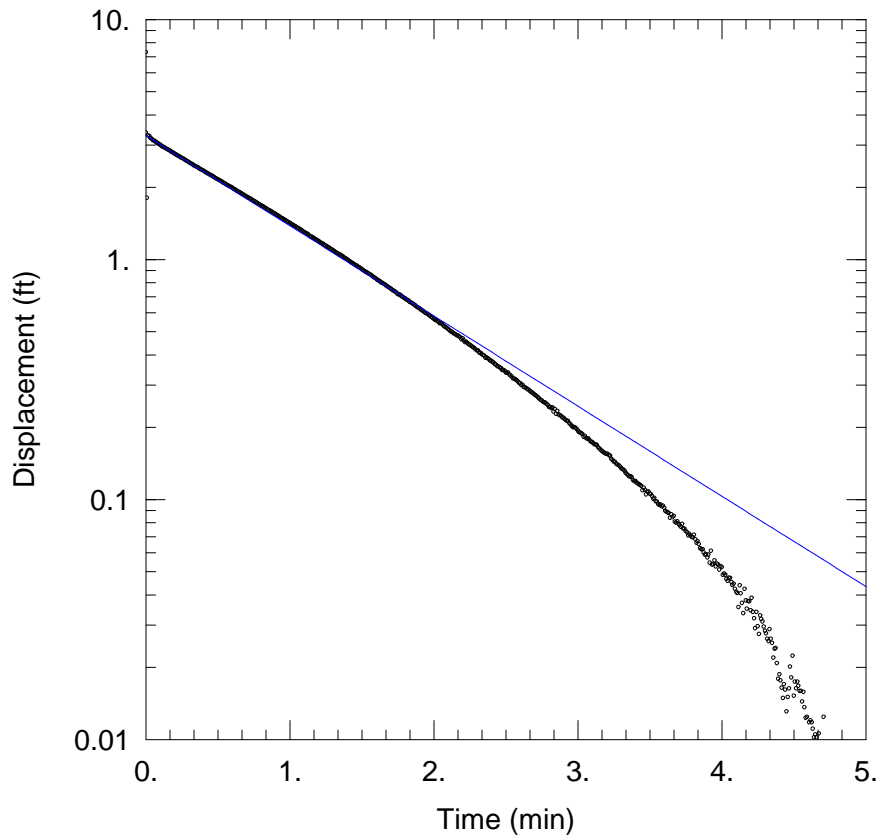
Saturated Thickness: 8.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (T3-50)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 40.34 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



T3-50 RISING HEAD TEST 2

Data Set: N:\...\T3-50-RH2.aqt
 Date: 05/10/13 Time: 16:51:20

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: T3-50
 Test Date: February 27, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0008697$ cm/sec
 $y_0 = 3.282$ ft

AQUIFER DATA

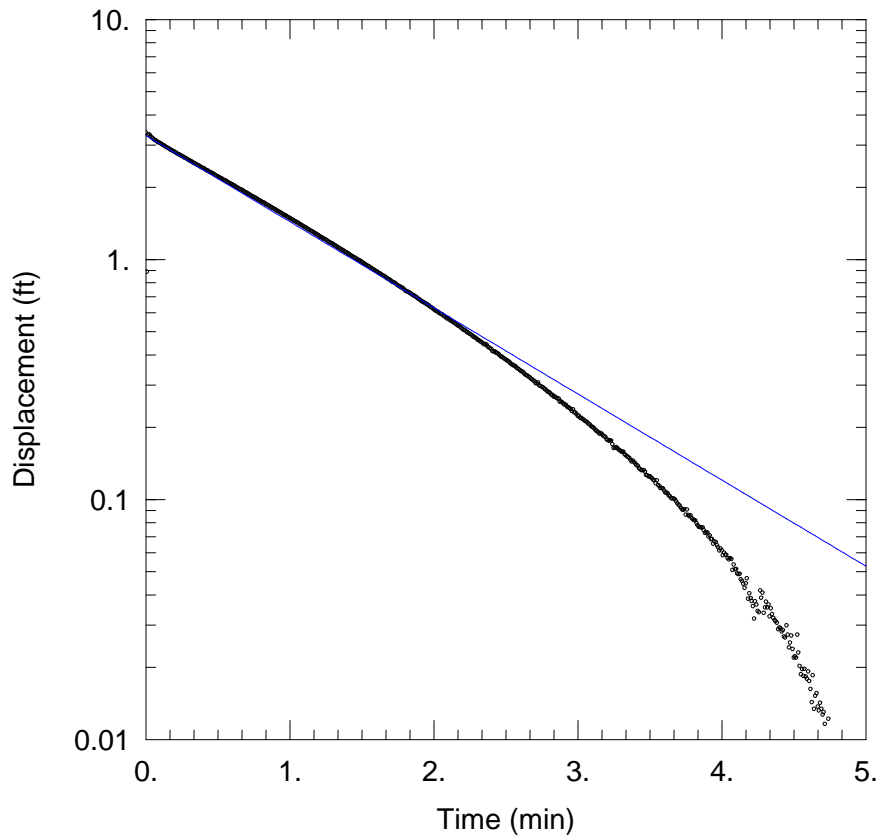
Saturated Thickness: 8.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (T3-50)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 40.34 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



T3-50 RISING HEAD TEST 3

Data Set: N:\...\T3-50-RH3.aqt
 Date: 05/10/13 Time: 16:51:07

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: T3-50
 Test Date: February 27, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0008306$ cm/sec
 $y_0 = 3.282$ ft

AQUIFER DATA

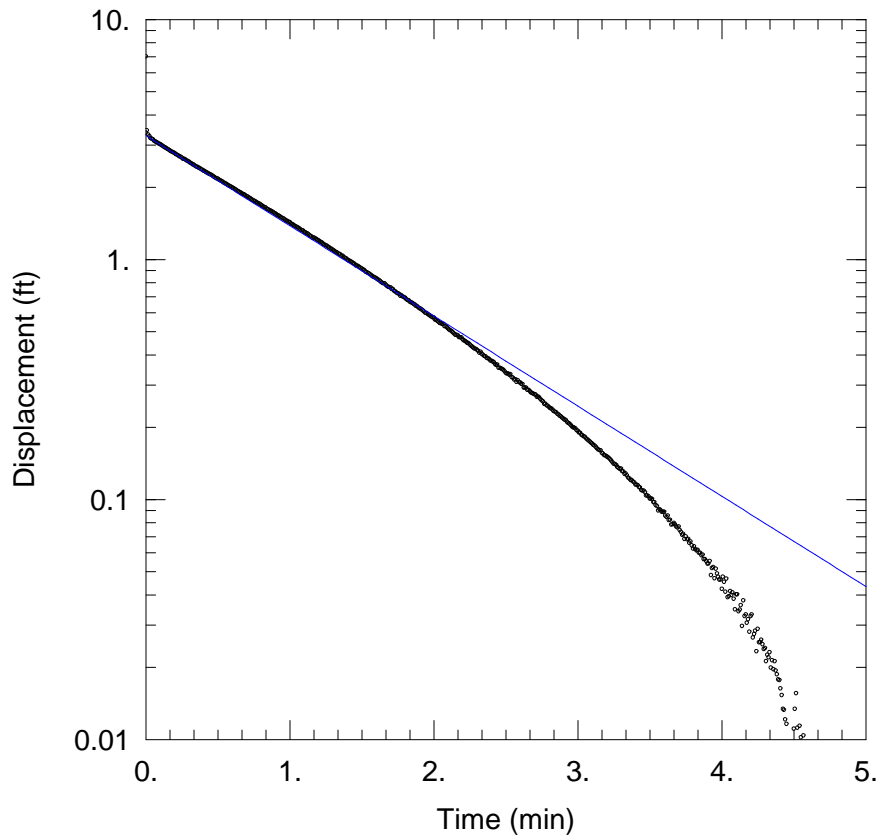
Saturated Thickness: 8.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (T3-50)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 40.34 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



T3-50 RISING HEAD TEST 4

Data Set: N:\...\T3-50-RH4.aqt
 Date: 05/10/13 Time: 16:50:42

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: T3-50
 Test Date: February 27, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0008697$ cm/sec
 $y_0 = 3.282$ ft

AQUIFER DATA

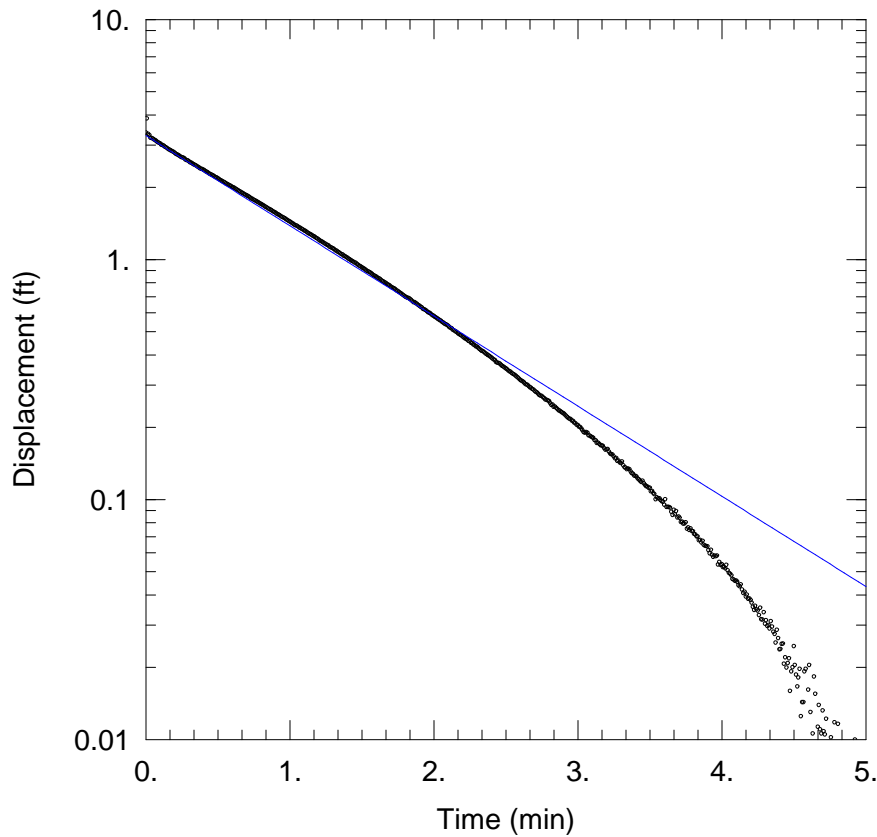
Saturated Thickness: 8.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (T3-50)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 40.34 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



T3-50 RISING HEAD TEST 5

Data Set: N:\...\T3-50-RH5.aqt
 Date: 05/10/13 Time: 16:50:27

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: T3-50
 Test Date: February 27, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0008697$ cm/sec
 $y_0 = 3.282$ ft

AQUIFER DATA

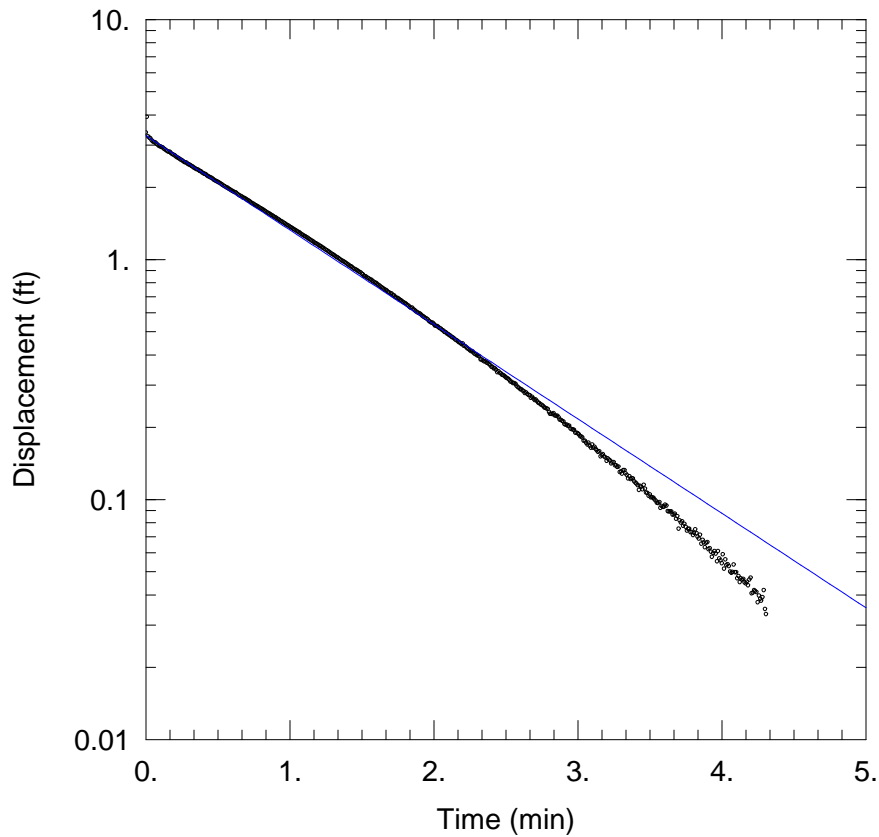
Saturated Thickness: 8.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (T3-50)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 40.34 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



T3-50 RISING HEAD TEST 6

Data Set: N:\...\T3-50-RH6.aqt
 Date: 05/10/13 Time: 16:50:56

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: T3-50
 Test Date: February 27, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0009107$ cm/sec
 $y_0 = 3.282$ ft

AQUIFER DATA

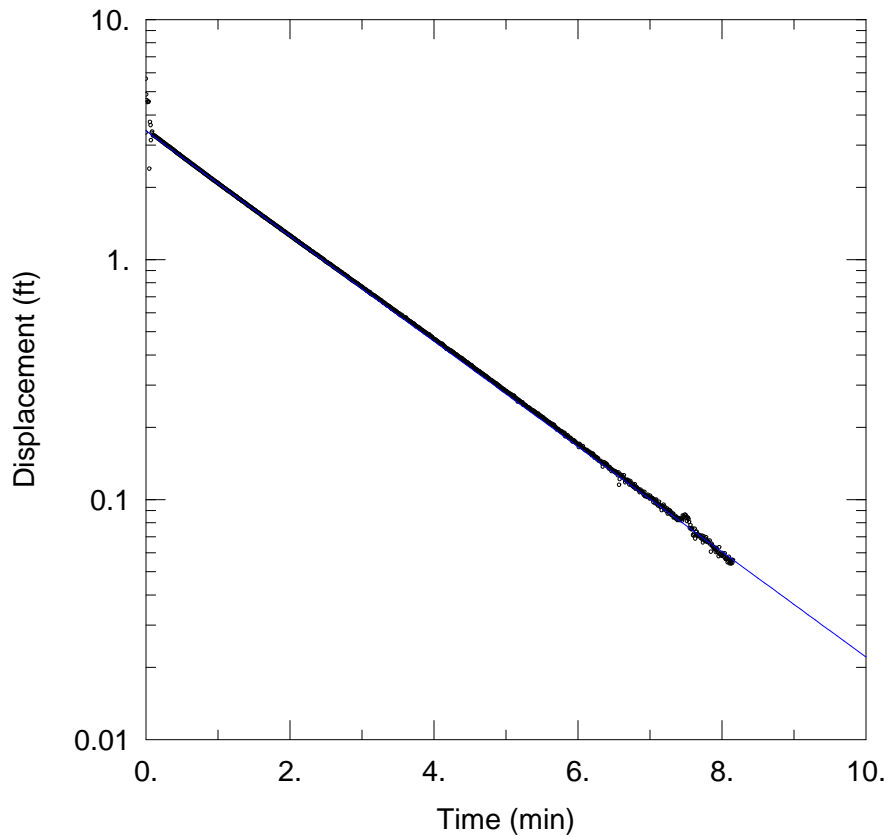
Saturated Thickness: 8.5 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (T3-50)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7. ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 40.34 ft
 Screen Length: 5. ft
 Well Radius: 0.333 ft



T5-120 FALLING HEAD TEST 1

Data Set: N:\...\T5-120-FH1.aqt
 Date: 05/13/13 Time: 08:11:11

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: T5-120
 Test Date: February 27, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0007234$ cm/sec
 $y_0 = 3.437$ ft

AQUIFER DATA

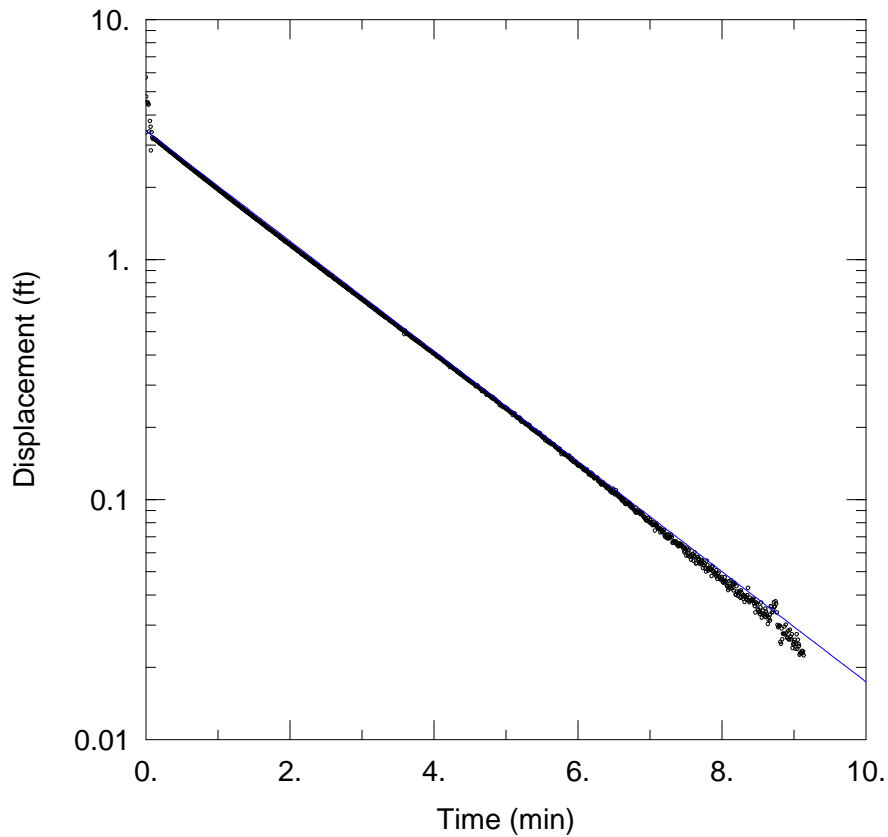
Saturated Thickness: 7.96 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (T5-120)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7.96 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 99.72 ft
 Screen Length: 4.26 ft
 Well Radius: 0.25 ft



T5-120 FALLING HEAD TEST 2

Data Set: N:\...\T5-120-FH2.aqt
 Date: 05/13/13 Time: 08:10:58

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: T5-120
 Test Date: February 27, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0007575$ cm/sec
 $y_0 = 3.437$ ft

AQUIFER DATA

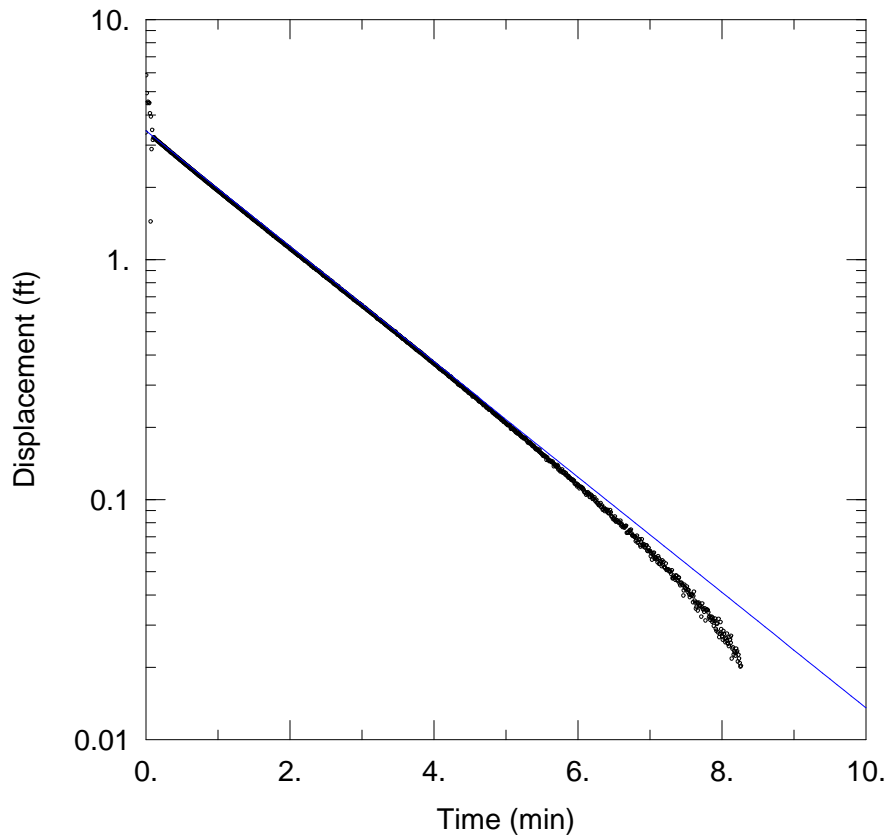
Saturated Thickness: 7.96 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (T5-120)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7.96 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 99.72 ft
 Screen Length: 4.26 ft
 Well Radius: 0.25 ft



T5-120 FALLING HEAD TEST 3

Data Set: N:\...\T5-120-FH3.aqt
 Date: 05/13/13 Time: 08:10:45

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: T5-120
 Test Date: February 27, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0007932$ cm/sec
 $y_0 = 3.437$ ft

AQUIFER DATA

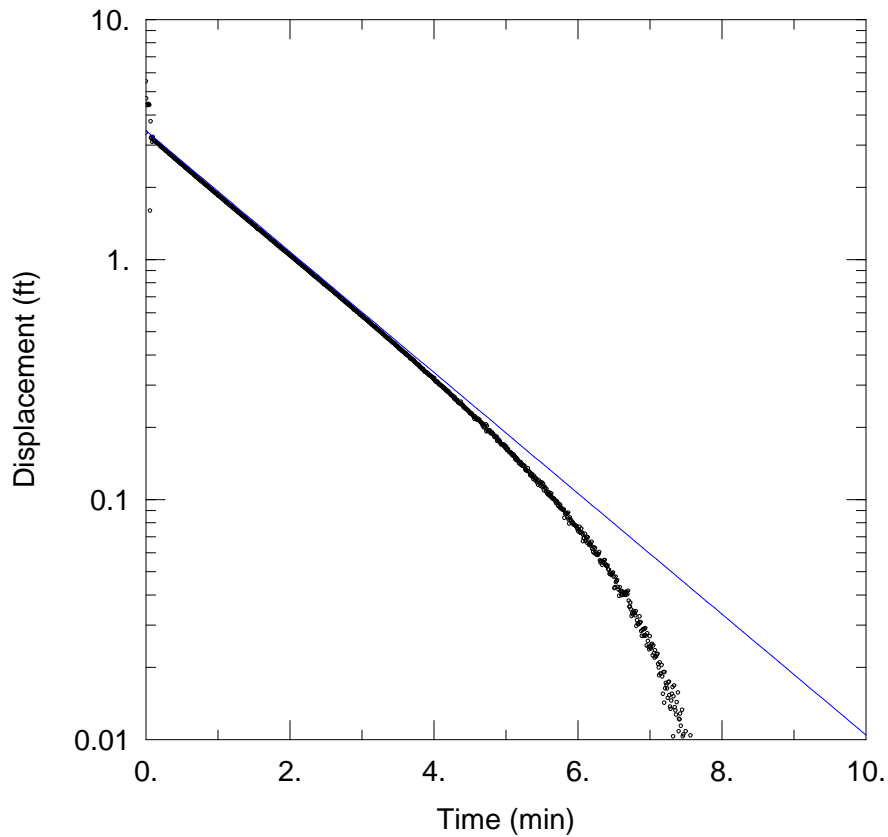
Saturated Thickness: 7.96 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (T5-120)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7.96 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 99.72 ft
 Screen Length: 4.26 ft
 Well Radius: 0.25 ft



T5-120 FALLING HEAD TEST 4

Data Set: N:\...\T5-120-FH4.aqt
 Date: 05/13/13 Time: 08:10:31

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: T5-120
 Test Date: February 27, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0008306$ cm/sec
 $y_0 = 3.437$ ft

AQUIFER DATA

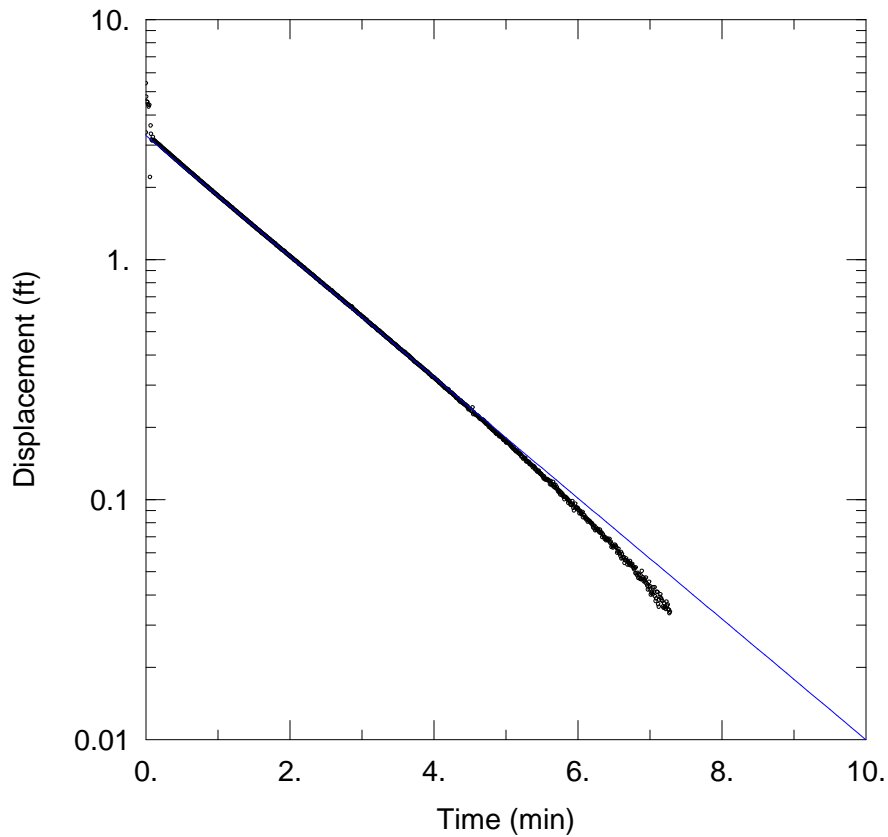
Saturated Thickness: 7.96 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (T5-120)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7.96 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 99.72 ft
 Screen Length: 4.26 ft
 Well Radius: 0.25 ft



T5-120 FALLING HEAD TEST 5

Data Set: N:\...\T5-120-FH5.aqt
 Date: 05/13/13 Time: 08:10:17

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: T5-120
 Test Date: February 27, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.0008306 cm/sec
 y0 = 3.282 ft

AQUIFER DATA

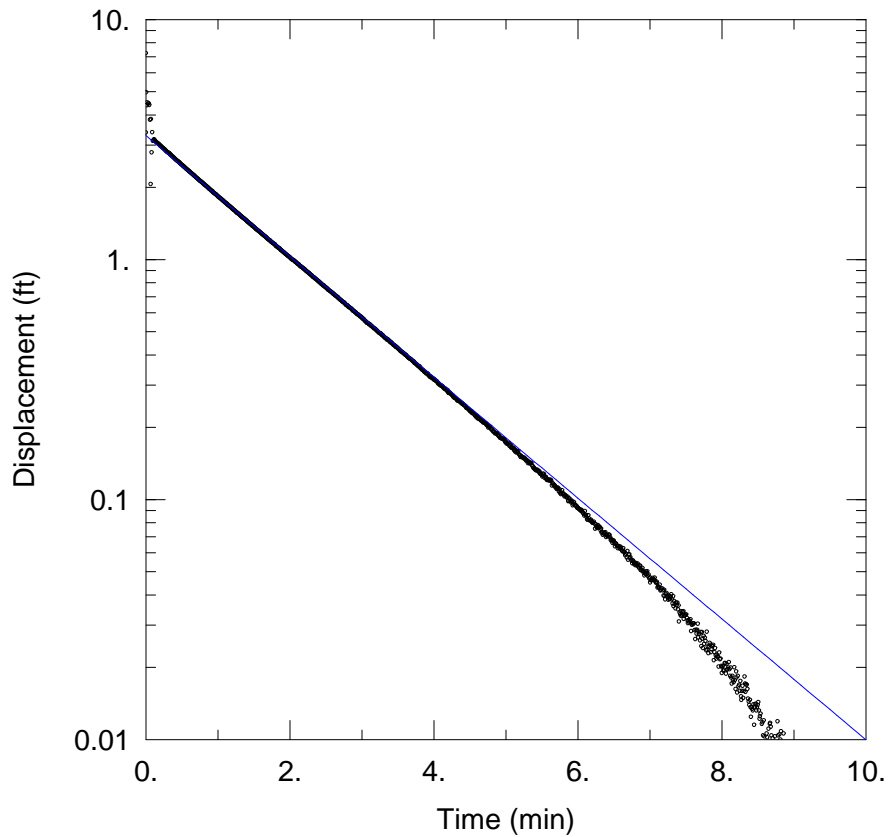
Saturated Thickness: 7.96 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (T5-120)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7.96 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 99.72 ft
 Screen Length: 4.26 ft
 Well Radius: 0.25 ft



T5-120 FALLING HEAD TEST 6

Data Set: N:\...\T5-120-FH6.aqt
 Date: 05/13/13 Time: 08:09:56

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: T5-120
 Test Date: February 27, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.0008306 cm/sec
 y0 = 3.282 ft

AQUIFER DATA

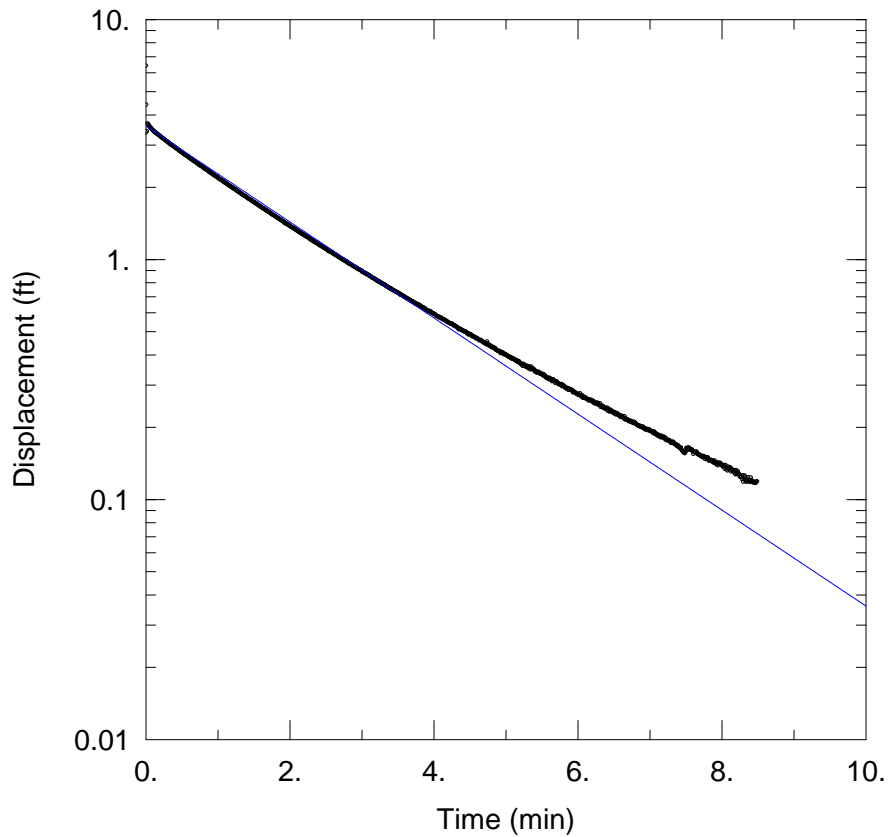
Saturated Thickness: 7.96 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (T5-120)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7.96 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 99.72 ft
 Screen Length: 4.26 ft
 Well Radius: 0.25 ft



T5-120 RISING HEAD TEST 1

Data Set: N:\...\T5-120-RH1.aqt
 Date: 05/13/13 Time: 08:17:11

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: T5-120
 Test Date: February 27, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.0006597 cm/sec
 y0 = 3.599 ft

AQUIFER DATA

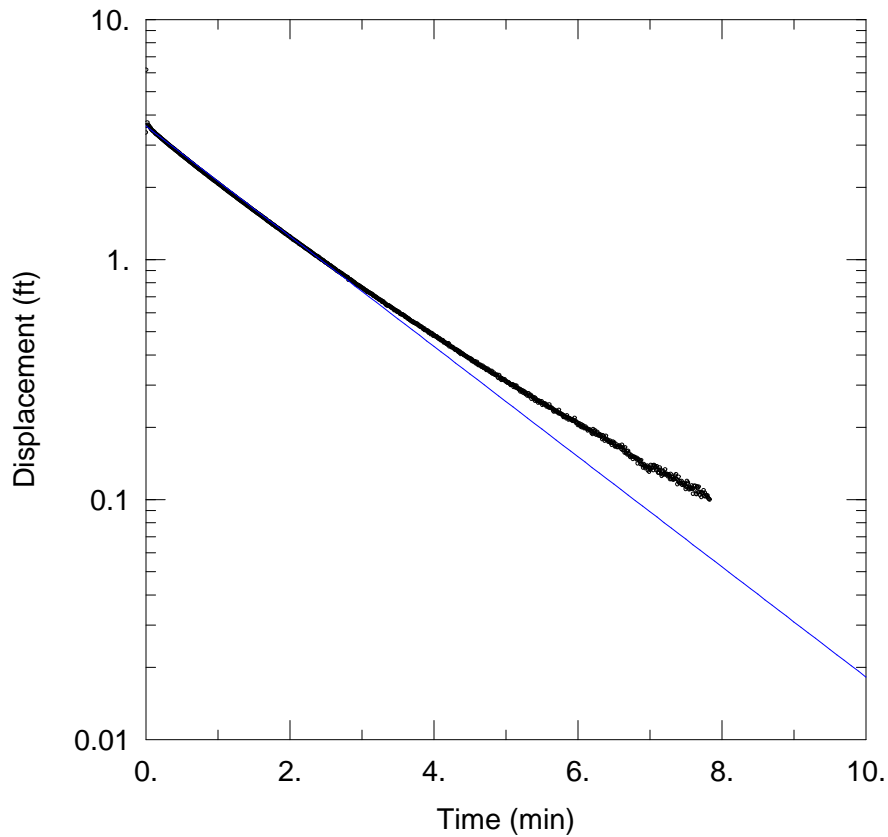
Saturated Thickness: 7.96 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (T5-120)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7.96 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 99.72 ft
 Screen Length: 4.26 ft
 Well Radius: 0.25 ft



T5-120 RISING HEAD TEST 2

Data Set: N:\...\T5-120-RH2.aqt
 Date: 05/13/13 Time: 08:16:58

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: T5-120
 Test Date: February 27, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0007575$ cm/sec
 $y_0 = 3.599$ ft

AQUIFER DATA

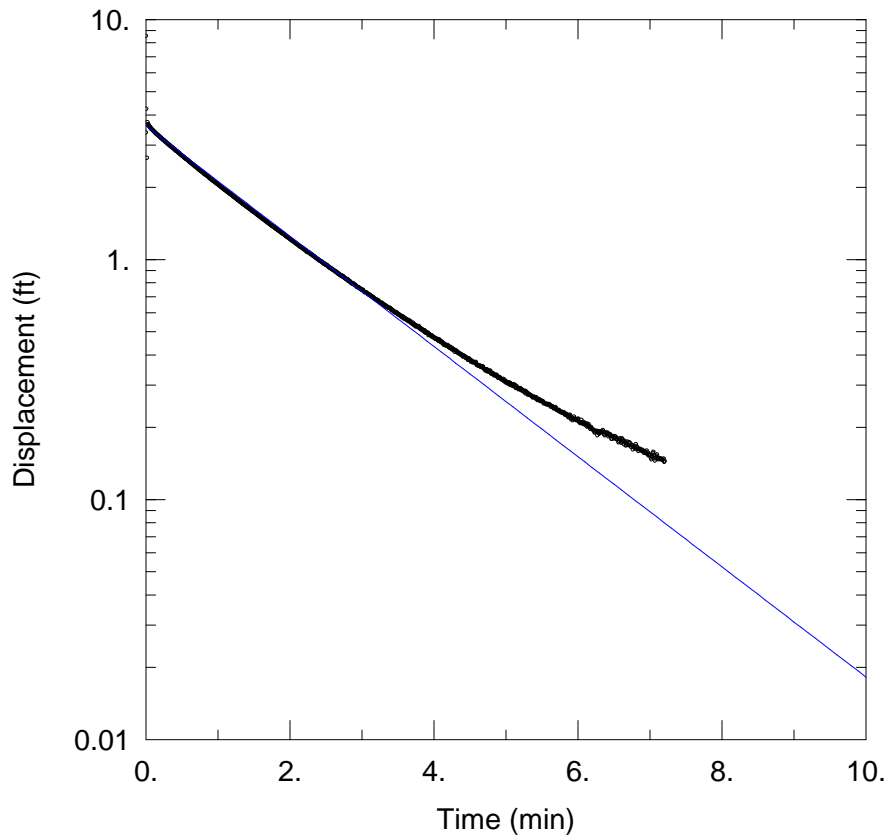
Saturated Thickness: 7.96 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (T5-120)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7.96 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 99.72 ft
 Screen Length: 4.26 ft
 Well Radius: 0.25 ft



T5-120 RISING HEAD TEST 3

Data Set: N:\...\T5-120-RH3.aqt
 Date: 05/13/13 Time: 08:16:47

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: T5-120
 Test Date: February 27, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.0007575 cm/sec
 y0 = 3.599 ft

AQUIFER DATA

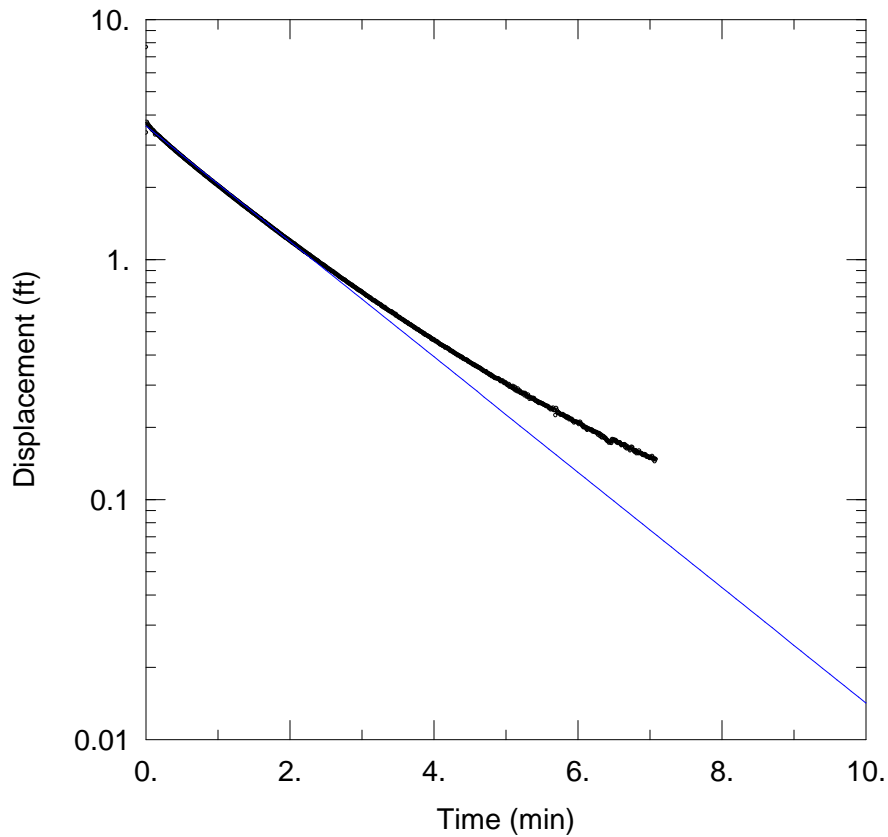
Saturated Thickness: 7.96 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (T5-120)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7.96 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 99.72 ft
 Screen Length: 4.26 ft
 Well Radius: 0.25 ft



T5-120 RISING HEAD TEST 4

Data Set: N:\...\T5-120-RH4.aqt
 Date: 05/13/13 Time: 08:16:35

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: T5-120
 Test Date: February 27, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.0007932 cm/sec
 y0 = 3.599 ft

AQUIFER DATA

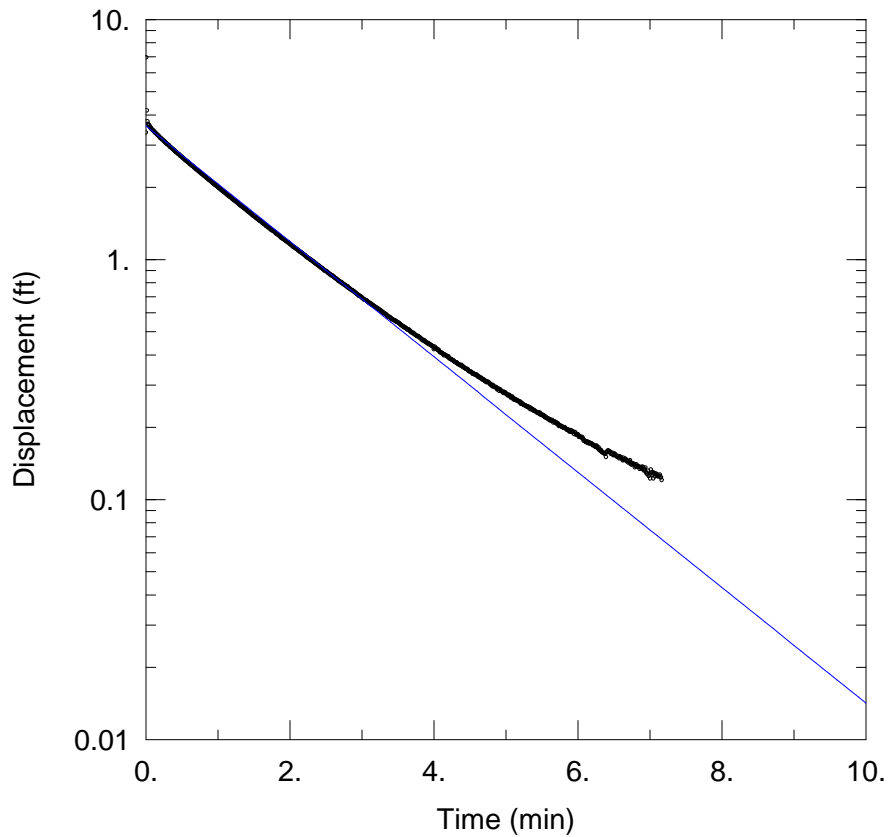
Saturated Thickness: 7.96 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (T5-120)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7.96 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 99.72 ft
 Screen Length: 4.26 ft
 Well Radius: 0.25 ft



T5-120 RISING HEAD TEST 5

Data Set: N:\...\T5-120-RH5.aqt
 Date: 05/13/13 Time: 08:16:21

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: T5-120
 Test Date: February 27, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 $K = 0.0007932$ cm/sec
 $y_0 = 3.599$ ft

AQUIFER DATA

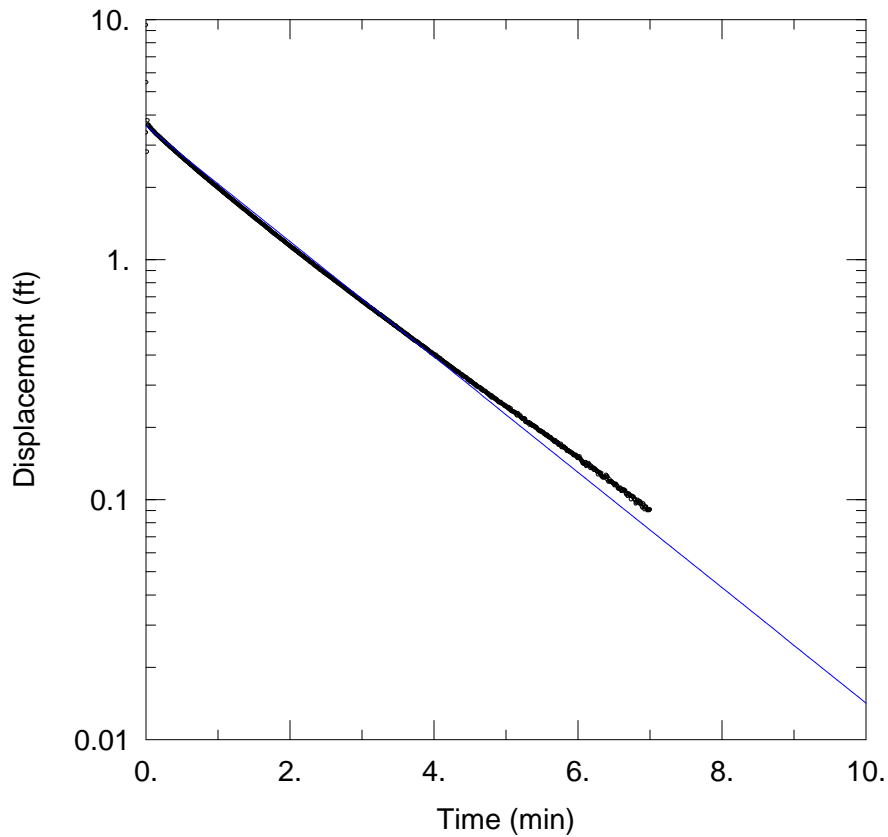
Saturated Thickness: 7.96 ft

Anisotropy Ratio (K_z/K_r): 0.1

WELL DATA (T5-120)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7.96 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 99.72 ft
 Screen Length: 4.26 ft
 Well Radius: 0.25 ft



T5-120 RISING HEAD TEST 6

Data Set: N:\...\T5-120-RH6.aqt
 Date: 05/13/13 Time: 08:16:09

PROJECT INFORMATION

Company: Conestoga-Rovers & Associates
 Client: Occidental Chemical Corp.
 Project: 007843-A6-403
 Location: Tacoma, WA
 Test Well: T5-120
 Test Date: February 27, 2013

SOLUTION

Aquifer Model: Confined
 Solution Method: Bouwer-Rice
 K = 0.0007932 cm/sec
 y0 = 3.599 ft

AQUIFER DATA

Saturated Thickness: 7.96 ft

Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (T5-120)

Initial Displacement: 3.375 ft
 Total Well Penetration Depth: 7.96 ft
 Casing Radius: 0.0835 ft

Static Water Column Height: 99.72 ft
 Screen Length: 4.26 ft
 Well Radius: 0.25 ft