APPENDIX I

HYDRAULIC CONDUCTIVITY TESTING DATA

I-1 URSGWC HYDRAULIC CONDUCTIVITY TESTING DATA
I-2 HARDING ESE HYDRAULIC CONDUCTIVITY TESTING DATA

I-1

URSGWC HYDRAULIC CONDUCTIVITY TESTING DATA

IN_SITU INC. Troll

Report generated: 03/13/00 14:38:56
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\LW-2.BIN
:aMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: LW-2

Test defined on: 11/18/99 16:52:56
Test started on: 11/18/99 16:53:14
Test stopped on: 11/18/99 16:55:31
Test extracted on: 11/18/99 16:55:40

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 75

TOTAL DATA SAMPLES 75

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

Channel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 10.237 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/18/99	16:53:14	0.0000	13.90	0.000
11/18/99	16:53:14	0.0050	13.90	-0.016
11/18/99	16:53:14	0.0100	13.92	-0.025
11/18/99	16:53:14	0.0150	13.92	-0.007
11/18/99	16:53:15	0.0200	13.92	-0.058
11/18/99	16:53:15	0.0250	13.93	-0.025
11/18/99	16:53:15	0.0300	13.93	0.009
11/18/99	16:53:16	0.0350	13.94	-0.035
18/99	16:53:16	0.0400	13.94	-0.021
11/18/99	16:53:16	0.0450	13.94	-0.021
11/18/99	16:53:17	0.0500	13.95	-0.030
11/18/99	16:53:17	0.0550	13.95	-0.025
11/18/99	16:53:17	0.0600	13.95	-0.021
11/18/99	16:53:17	0.0650	13.95	-0.025

11/18/99	16:53:18	0.0700	13.95	-0.030
11/18/99	16:53:18	0.0750	13.96	-0.095
11/18/99	16:53:18	0.0800	13.96	-2.846
11/18/99	16:53:19	0.0850	13.96	-1.047
11/18/99	16:53:19	0.0900	13.97	-1.718
11/18/99	16:53:19	0.0950	13.97	-1.375
11/18/99	16:53:20	0.1000	13.98	-1.375
11/18/99	16:53:20	0.1058	13.98	-1.246
11/18/99	16:53:20	0.1120	13.98	-1.190
11/18/99	16:53:21	0.1185	13.98	-1.123
11/18/99	16:53:21	0.1255	13.98	-1.059
11/18/99	16:53:21	0.1328	13.99	-0.992
11/18/99	16:53:22	0.1407	14.00	-0.930
11/18/99	16:53:22	0.1490	14.00	-0.865
11/18/99	16:53:23	0.1578	14.00	-0.817
11/18/99	16:53:24	0.1672	14.00	-0.745
11/18/99	16:53:24	0.1770	14.01	-0.690
11/18/99	16:53:25	0.1875	14.01	-0.637
11/18/99	16:53:25	0.1985	14.00	-0.496
11/18/99	16:53:26	0.2102	14.01	-0.454
11/18/99	16:53:27	0.2227	14.01	-0.434
11/18/99	16:53:28	0.2358	14.02	-0.388
11/18/99	16:53:28	0.2498	14.03	-0.355
11/18/99	16:53:29	0.2647	14.03	-0.325
11/18/99	16:53:30	0.2803	14.03	-0.302
11/18/99	16:53:31	0.2970	14.04	-0.274
11/18/99	16:53:32	0.3147	14.04	-0.247
11/18/99	16:53:34	0.3333	14.04	-0.226
11/18/99	16:53:35	0.3532	14.04	-0.208
11/18/99	16:53:36	0.3742	14.04	-0.185
11/18/99	16:53:37	0.3963	14.05	-0.171
11/18/99	16:53:39	0.4198	14.05	-0.152
11/18/99	16:53:40	0.4447	14.06	-0.141
11/18/99	16:53:42	0.4697	14.06	-0.131
11/18/99	16:53:43	0.4963	14.06	-0.122
11/18/99	16:53:45	0.5247	14.06	-0.108
11/18/99	16:53:47	0.5547	14.06	-0.104
11/18/99	16:53:49	0.5863	14.06	-0.095
11/18/99	16:53:51	0.6213	14.06	-0.090
11/18/99	16:53:53	0.6580	14.07	-0.085
11/18/99	16:53:55	0.6963	14.07	-0.081
11/18/99	16:53:58	0.7380	14.07	-0.076
11/18/99	16:54:00	0.7813	14.07	-0.072
11/18/99	16:54:03	0.8280	14.07	-0.067
11/18/99	16:54:06	0.8763	14.07	-0.067
11/18/99	16:54:09	0.9280	14.07	-0.062
11/18/99	16:54:12	0.9830	14.07	-0.062
11/18/99	16:54:16	1.0413	14.08	-0.058
11/18/99	16:54:20	1.1030	14.08	-0.058
11/18/99	16:54:24	1.1680	14.08	-0.058
11/18/99	16:54:28	1.2380	14.08	-0.058
11/18/99	16:54:32	1.3113	14.08	-0.053
11/18/99	16:54:37	1.3897	14.09	-0.053
11/18/99	16:54:42	1.4730	14.09	-0.053
11/18/99	16:54:47	1.5613	14.09	-0.055
11/18/99	16:54:53	1.6547	14.09	-0.053

11/18/99	16:54:59	1.7530	14.09	-0.055
11/18/99	16:55:05	1.8580	14.11	-0.055
11/18/99	16:55:12	1.9680	14.15	-0.055
11/18/99	16:55:19	2.0847	14.14	-0.055
18/99	16:55:26	2.2097	14.14	-0.055

IN_SITU INC. Troll

Report generated: 03/13/00 14:39:59
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\LW-3S.BIN
:aMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: LW-3S

Test defined on: 11/18/99 16:56:25
Test started on: 11/18/99 17:28:41
Test stopped on: 11/18/99 17:56:30
Test extracted on: 11/18/99 17:59:04

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 121

TOTAL DATA SAMPLES 121

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

..annel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 7.331 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/18/99	17:28:41	0.0000	14.85	0.000
11/18/99	17:28:41	0.0050	14.86	-0.005
11/18/99	17:28:41	0.0100	14.86	0.000
11/18/99	17:28:41	0.0150	14.87	0.000
11/18/99	17:28:42	0.0200	14.87	-0.032
11/18/99	17:28:42	0.0250	14.87	-0.009
11/18/99	17:28:42	0.0300	14.88	-0.005
11/18/99	17:28:43	0.0350	14.88	-0.042
'18/99	17:28:43	0.0400	14.89	-0.067
,18/99	17:28:43	0.0450	14.89	0.072
11/18/99	17:28:44	0.0500	14.89	-0.053
11/18/99	17:28:44	0.0550	14.90	-0.053
11/18/99	17:28:44	0.0600	14.90	0.018
11/18/99	17:28:44	0.0650	14.90	0.009

11/18/99	17:28:45	0.0700	14.90	-0.018
11/18/99	17:28:45	0.0750	14.90	-2.959
11/18/99	17:28:45	0.0800	14.91	-1.483
11/18/99	17:28:46	0.0850	14.92	-1.804
/18/99	17:28:46	0.0900	14.92	-1.458
/18/99	17:28:46	0.0950	14.92	-1.709
11/18/99	17:28:47	0.1000	14.92	-1.619
11/18/99	17:28:47	0.1058	14.92	-1.624
11/18/99	17:28:47	0.1120	14.92	-1.624
11/18/99	17:28:48	0.1185	14.93	-1.601
11/18/99	17:28:48	0.1255	14.93	-1.587
11/18/99	17:28:48	0.1328	14.93	-1.582
11/18/99	17:28:49	0.1407	14.93	-1.571
11/18/99	17:28:49	0.1490	14.94	-1.571
11/18/99	17:28:50	0.1578	14.94	-1.562
11/18/99	17:28:51	0.1672	14.95	-1.633
11/18/99	17:28:51	0.1770	14.95	-1.525
11/18/99	17:28:52	0.1875	14.95	-1.525
11/18/99	17:28:52	0.1985	14.95	-1.520
11/18/99	17:28:53	0.2102	14.95	-1.511
11/18/99	17:28:54	0.2227	14.96	-1.502
11/18/99	17:28:55	0.2358	14.96	-1.497
11/18/99	17:28:55	0.2498	14.96	-1.488
11/18/99	17:28:56	0.2647	14.97	-1.485
11/18/99	17:28:57	0.2803	14.98	-1.476
11/18/99	17:28:58	0.2970	14.98	-1.467
11/18/99	17:28:59	0.3147	14.98	-1.458
/18/99	17:29:01	0.3333	14.98	-1.458
/18/99	17:29:02	0.3532	14.98	-1.449
11/18/99	17:29:03	0.3742	14.98	-1.439
11/18/99	17:29:04	0.3963	14.99	-1.435
11/18/99	17:29:06	0.4198	14.98	-1.426
11/18/99	17:29:07	0.4447	14.98	-1.416
11/18/99	17:29:09	0.4697	14.99	-1.407
11/18/99	17:29:10	0.4963	14.99	-1.398
11/18/99	17:29:12	0.5247	14.99	-1.393
11/18/99	17:29:14	0.5547	14.99	-1.386
11/18/99	17:29:16	0.5863	14.99	-1.382
11/18/99	17:29:18	0.6213	14.99	-1.368
11/18/99	17:29:20	0.6580	14.99	-1.359
11/18/99	17:29:22	0.6963	14.99	-1.349
11/18/99	17:29:25	0.7380	14.99	-1.345
11/18/99	17:29:27	0.7813	14.99	-1.336
11/18/99	17:29:30	0.8280	14.99	-1.322
11/18/99	17:29:33	0.8763	14.99	-1.312
11/18/99	17:29:36	0.9280	14.99	-1.303
11/18/99	17:29:39	0.9830	14.99	-1.294
11/18/99	17:29:43	1.0413	14.98	-1.283
11/18/99	17:29:47	1.1030	14.99	-1.273
11/18/99	17:29:51	1.1680	14.99	-1.269
/18/99	17:29:55	1.2380	14.99	-1.255
,18/99	17:29:59	1.3113	14.99	-1.250
11/18/99	17:30:04	1.3897	14.98	-1.236
11/18/99	17:30:09	1.4730	14.98	-1.223
11/18/99	17:30:14	1.5613	14.98	-1.209
11/18/99	17:30:20	1.6547	14.98	-1.199

11/18/99	17:30:26	1.7530	14.98	-1.195
11/18/99	17:30:32	1.8580	14.98	-1.188
11/18/99	17:30:39	1.9680	14.98	-1.169
11/18/99	17:30:46	2.0847	14.97	-1.156
/18/99	17:30:53	2.2097	14.97	-1.146
11/18/99	17:31:01	2.3413	14.97	-1.137
11/18/99	17:31:09	2.4813	14.97	-1.114
11/18/99	17:31:18	2.6297	14.97	-1.105
11/18/99	17:31:28	2.7863	14.97	-1.091
11/18/99	17:31:38	2.9530	14.96	-1.080
11/18/99	17:31:48	3.1297	14.96	-1.066
11/18/99	17:31:59	3.3163	14.96	-1.047
11/18/99	17:32:11	3.5147	14.96	-1.038
11/18/99	17:32:24	3.7247	14.96	-1.024
11/18/99	17:32:37	3.9463	14.96	-1.001
11/18/99	17:32:51	4.1813	14.95	-0.992
11/18/99	17:33:06	4.4297	14.95	-0.976
11/18/99	17:33:22	4.6930	15.01	-0.957
11/18/99	17:33:39	4.9730	14.99	-0.948
11/18/99	17:33:57	5.2697	14.98	-0.934
11/18/99	17:34:15	5.5830	14.96	-0.916
11/18/99	17:34:35	5.9147	14.96	-0.902
11/18/99	17:34:56	6.2663	14.95	-0.883
11/18/99	17:35:19	6.6397	14.95	-0.872
11/18/99	17:35:43	7.0347	14.95	-0.844
11/18/99	17:36:08	7.4530	14.94	-0.835
11/18/99	17:36:34	7.8963	14.93	-0.821
'18/99	17:37:02	8.3663	14.93	-0.803
__/18/99	17:37:32	8.8647	14.92	-0.784
11/18/99	17:38:04	9.3913	14.92	-0.768
11/18/99	17:38:37	9.9497	14.92	-0.754
11/18/99	17:39:13	10.5413	14.92	-0.736
11/18/99	17:39:51	11.1680	14.90	-0.717
11/18/99	17:40:30	11.8313	14.90	-0.704
11/18/99	17:41:13	12.5347	14.90	-0.685
11/18/99	17:41:57	13.2797	14.90	-0.667
11/18/99	17:42:45	14.0697	14.90	-0.650
11/18/99	17:43:35	14.9063	14.90	-0.632
11/18/99	17:44:28	15.7913	14.90	-0.614
11/18/99	17:45:24	16.7297	14.90	-0.595
11/18/99	17:46:24	17.7230	14.89	-0.581
11/18/99	17:47:24	18.7230	14.90	-0.563
11/18/99	17:48:24	19.7230	14.89	-0.547
11/18/99	17:49:24	20.7230	14.90	-0.533
11/18/99	17:50:24	21.7230	14.90	-0.514
11/18/99	17:51:24	22.7230	14.90	-0.501
11/18/99	17:52:24	23.7230	14.90	-0.496
11/18/99	17:53:24	24.7230	14.90	-0.482
11/18/99	17:54:24	25.7230	14.90	-0.468
11/18/99	17:55:24	26.7230	14.90	-0.457
'18/99	17:56:24	27.7230	14.93	-0.452

IN_SITU INC. Troll

Report generated: 03/13/00 14:40:14
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\LW-5S.BIN
:aMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: LW-5S

Test defined on: 11/18/99 16:27:20
Test started on: 11/18/99 16:27:41
Test stopped on: 11/18/99 16:41:00
Test extracted on: 11/18/99 16:41:10

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 106

TOTAL DATA SAMPLES 106

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

Channel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 5.045 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/18/99	16:27:41	0.0000	13.95	0.000
11/18/99	16:27:41	0.0050	13.95	0.009
11/18/99	16:27:41	0.0100	13.96	0.000
11/18/99	16:27:41	0.0150	13.96	0.000
11/18/99	16:27:42	0.0200	13.97	-0.081
11/18/99	16:27:42	0.0250	13.97	-0.005
11/18/99	16:27:42	0.0300	13.97	-0.025
11/18/99	16:27:43	0.0350	13.98	-0.067
'18/99	16:27:43	0.0400	13.98	-0.018
11/18/99	16:27:43	0.0450	13.99	-0.035
11/18/99	16:27:44	0.0500	13.99	-0.030
11/18/99	16:27:44	0.0550	13.99	-0.035
11/18/99	16:27:44	0.0600	14.00	-0.030
11/18/99	16:27:44	0.0650	14.00	-0.311

11/18/99	16:27:45	0.0700	14.00	-1.289
11/18/99	16:27:45	0.0750	14.01	-1.266
11/18/99	16:27:45	0.0800	14.01	-1.218
11/18/99	16:27:46	0.0850	14.01	-1.186
11/18/99	16:27:46	0.0900	14.01	-1.158
11/18/99	16:27:46	0.0950	14.02	-1.133
11/18/99	16:27:47	0.1000	14.02	-1.119
11/18/99	16:27:47	0.1058	14.03	-1.105
11/18/99	16:27:47	0.1120	14.03	-1.091
11/18/99	16:27:48	0.1185	14.03	-1.050
11/18/99	16:27:48	0.1255	14.03	-1.054
11/18/99	16:27:48	0.1328	14.04	-1.029
11/18/99	16:27:49	0.1407	14.04	-1.015
11/18/99	16:27:49	0.1490	14.04	-0.987
11/18/99	16:27:50	0.1578	14.05	-0.973
11/18/99	16:27:51	0.1672	14.05	-0.950
11/18/99	16:27:51	0.1770	14.06	-0.934
11/18/99	16:27:52	0.1875	14.06	-0.916
11/18/99	16:27:52	0.1985	14.06	-0.893
11/18/99	16:27:53	0.2102	14.06	-0.879
11/18/99	16:27:54	0.2227	14.07	-0.856
11/18/99	16:27:55	0.2358	14.07	-0.844
11/18/99	16:27:55	0.2498	14.08	-0.826
11/18/99	16:27:56	0.2647	14.08	-0.803
11/18/99	16:27:57	0.2803	14.09	-0.789
11/18/99	16:27:58	0.2970	14.09	-0.766
11/18/99	16:27:59	0.3147	14.09	-0.750
11/18/99	16:28:01	0.3333	14.10	-0.727
11/18/99	16:28:02	0.3532	14.10	-0.704
11/18/99	16:28:03	0.3742	14.10	-0.685
11/18/99	16:28:04	0.3963	14.11	-0.662
11/18/99	16:28:06	0.4198	14.11	-0.641
11/18/99	16:28:07	0.4447	14.12	-0.623
11/18/99	16:28:09	0.4697	14.12	-0.595
11/18/99	16:28:10	0.4963	14.12	-0.577
11/18/99	16:28:12	0.5247	14.12	-0.556
11/18/99	16:28:14	0.5547	14.13	-0.537
11/18/99	16:28:16	0.5863	14.14	-0.514
11/18/99	16:28:18	0.6213	14.14	-0.496
11/18/99	16:28:20	0.6580	14.14	-0.473
11/18/99	16:28:22	0.6963	14.14	-0.452
11/18/99	16:28:25	0.7380	14.15	-0.434
11/18/99	16:28:27	0.7813	14.15	-0.415
11/18/99	16:28:30	0.8280	14.15	-0.388
11/18/99	16:28:33	0.8763	14.16	-0.371
11/18/99	16:28:36	0.9280	14.16	-0.353
11/18/99	16:28:39	0.9830	14.17	-0.330
11/18/99	16:28:43	1.0413	14.17	-0.307
11/18/99	16:28:47	1.1030	14.18	-0.293
11/18/99	16:28:51	1.1680	14.18	-0.272
11/18/99	16:28:55	1.2380	14.18	-0.263
11/18/99	16:28:59	1.3113	14.20	-0.240
11/18/99	16:29:04	1.3897	14.20	-0.231
11/18/99	16:29:09	1.4730	14.21	-0.212
11/18/99	16:29:14	1.5613	14.21	-0.198
11/18/99	16:29:20	1.6547	14.22	-0.182

11/18/99	16:29:26	1.7530	14.23	-0.173
11/18/99	16:29:32	1.8580	14.24	-0.159
11/18/99	16:29:39	1.9680	14.24	-0.150
11/18/99	16:29:46	2.0847	14.25	-0.141
'18/99	16:29:53	2.2097	14.26	-0.131
11/18/99	16:30:01	2.3413	14.27	-0.113
11/18/99	16:30:09	2.4813	14.28	-0.118
11/18/99	16:30:18	2.6297	14.29	-0.111
11/18/99	16:30:28	2.7863	14.30	-0.101
11/18/99	16:30:38	2.9530	14.30	-0.101
11/18/99	16:30:48	3.1297	14.32	-0.092
11/18/99	16:30:59	3.3163	14.33	-0.088
11/18/99	16:31:11	3.5147	14.34	-0.083
11/18/99	16:31:24	3.7247	14.34	-0.074
11/18/99	16:31:37	3.9463	14.35	-0.069
11/18/99	16:31:51	4.1813	14.36	-0.069
11/18/99	16:32:06	4.4297	14.36	-0.065
11/18/99	16:32:22	4.6930	14.37	-0.065
11/18/99	16:32:39	4.9730	14.38	-0.060
11/18/99	16:32:57	5.2697	14.38	-0.060
11/18/99	16:33:15	5.5830	14.38	-0.055
11/18/99	16:33:35	5.9147	14.38	-0.055
11/18/99	16:33:56	6.2663	14.39	-0.051
11/18/99	16:34:19	6.6397	14.39	-0.051
11/18/99	16:34:43	7.0347	14.39	-0.046
11/18/99	16:35:08	7.4530	14.39	-0.055
11/18/99	16:35:34	7.8963	14.40	-0.051
'18/99	16:36:02	8.3663	14.40	-0.051
11/18/99	16:36:32	8.8647	14.40	-0.046
11/18/99	16:37:04	9.3913	14.40	-0.051
11/18/99	16:37:37	9.9497	14.40	-0.051
11/18/99	16:38:13	10.5413	14.40	-0.046
11/18/99	16:38:51	11.1680	14.40	-0.046
11/18/99	16:39:30	11.8313	14.40	-0.051
11/18/99	16:40:13	12.5347	14.40	-0.051
11/18/99	16:40:57	13.2797	14.41	-0.053

IN_SITU INC. Troll

Report generated: 03/13/00 14:40:27
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\MW-99-1A.BIN
:aMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: mwcd-99-01a

Test defined on: 11/18/99 15:54:20
Test started on: 11/18/99 15:55:16
Test stopped on: 11/18/99 15:57:17
Test extracted on: 11/18/99 15:57:22

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 73

TOTAL DATA SAMPLES 73

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

..annel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 4.717 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/18/99	15:55:16	0.0000	15.16	0.000
11/18/99	15:55:16	0.0050	15.18	-0.005
11/18/99	15:55:16	0.0100	15.18	0.000
11/18/99	15:55:16	0.0150	15.18	0.000
11/18/99	15:55:17	0.0200	15.19	-0.005
11/18/99	15:55:17	0.0250	15.20	-0.005
11/18/99	15:55:17	0.0300	15.20	-0.005
11/18/99	15:55:18	0.0350	15.20	-0.005
'18/99	15:55:18	0.0400	15.21	-0.005
, 18/99	15:55:18	0.0450	15.21	0.000
11/18/99	15:55:19	0.0500	15.22	-0.009
11/18/99	15:55:19	0.0550	15.22	-0.032
11/18/99	15:55:19	0.0600	15.22	-0.496
11/18/99	15:55:19	0.0650	15.22	-0.627

11/18/99	15:55:20	0.0700	15.23	-0.420
11/18/99	15:55:20	0.0750	15.23	-0.321
11/18/99	15:55:20	0:0800	15.24	-0.270
11/18/99	15:55:21	0.0850	15.24	-0.226
/18/99	15:55:21	0.0900	15.24	-0.189
11/18/99	15:55:21	0.0950	15.25	-0.166
11/18/99	15:55:22	0.1000	15.25	-0.150
11/18/99	15:55:22	0.1058	15.26	-0.131
11/18/99	15:55:22	0.1120	15.26	-0.122
11/18/99	15:55:23	0.1185	15.26	-0.108
11/18/99	15:55:23	0.1255	15.26	-0.099
11/18/99	15:55:23	0.1328	15.27	-0.095
11/18/99	15:55:24	0.1407	15.27	-0.085
11/18/99	15:55:24	0.1490	15.27	-0.081
11/18/99	15:55:25	0.1578	15.28	-0.072
11/18/99	15:55:26	0.1672	15.29	-0.072
11/18/99	15:55:26	0.1770	15.29	-0.069
11/18/99	15:55:27	0.1875	15.30	-0.065
11/18/99	15:55:27	0.1985	15.30	-0.065
11/18/99	15:55:28	0.2102	15.30	-0.060
11/18/99	15:55:29	0.2227	15.31	-0.060
11/18/99	15:55:30	0.2358	15.32	-0.060
11/18/99	15:55:30	0.2498	15.32	-0.060
11/18/99	15:55:31	0.2647	15.32	-0.051
11/18/99	15:55:32	0.2803	15.33	-0.051
11/18/99	15:55:33	0.2970	15.33	-0.051
11/18/99	15:55:34	0.3147	15.33	-0.046
/18/99	15:55:36	0.3333	15.34	-0.042
/18/99	15:55:37	0.3532	15.35	-0.042
11/18/99	15:55:38	0.3742	15.35	-0.042
11/18/99	15:55:39	0.3963	15.35	-0.042
11/18/99	15:55:41	0.4198	15.35	-0.037
11/18/99	15:55:42	0.4447	15.36	-0.037
11/18/99	15:55:44	0.4697	15.36	-0.037
11/18/99	15:55:45	0.4963	15.36	-0.037
11/18/99	15:55:47	0.5247	15.37	-0.037
11/18/99	15:55:49	0.5547	15.37	-0.032
11/18/99	15:55:51	0.5863	15.38	-0.037
11/18/99	15:55:53	0.6213	15.38	-0.037
11/18/99	15:55:55	0.6580	15.39	-0.032
11/18/99	15:55:57	0.6963	15.39	-0.032
11/18/99	15:56:00	0.7380	15.40	-0.028
11/18/99	15:56:02	0.7813	15.40	-0.032
11/18/99	15:56:05	0.8280	15.40	-0.032
11/18/99	15:56:08	0.8763	15.41	-0.032
11/18/99	15:56:11	0.9280	15.41	-0.032
11/18/99	15:56:14	0.9830	15.41	-0.032
11/18/99	15:56:18	1.0413	15.42	-0.032
11/18/99	15:56:22	1.1030	15.42	-0.032
11/18/99	15:56:26	1.1680	15.43	-0.028
'18/99	15:56:30	1.2380	15.43	-0.032
/18/99	15:56:34	1.3113	15.49	-0.037
11/18/99	15:56:39	1.3897	15.52	-0.042
11/18/99	15:56:44	1.4730	15.52	-0.037
11/18/99	15:56:49	1.5613	15.52	-0.042
11/18/99	15:56:55	1.6547	15.52	-0.037

11/18/99	15:57:01	1.7530	15.52	-0.037
11/18/99	15:57:07	1.8580	15.52	-0.032
11/18/99	15:57:14	1.9680	15.52	-0.035

IN_SITU INC. Troll

Report generated: 03/13/00 14:40:43
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\MW-99-1B.BIN
:aMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: wmcd-99-01b

Test defined on: 11/18/99 15:43:41
Test started on: 11/18/99 15:44:00
Test stopped on: 11/18/99 15:45:44
Test extracted on: 11/18/99 15:45:51

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 70

TOTAL DATA SAMPLES 70

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

Channel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 23.540 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/18/99	15:44:00	0.0000	13.96	0.000
11/18/99	15:44:00	0.0050	13.96	0.000
11/18/99	15:44:00	0.0100	13.97	-0.072
11/18/99	15:44:00	0.0150	13.97	-0.009
11/18/99	15:44:01	0.0200	13.98	-0.005
11/18/99	15:44:01	0.0250	13.98	-0.016
11/18/99	15:44:01	0.0300	13.99	-0.016
11/18/99	15:44:02	0.0350	13.98	-0.005
'18/99	15:44:02	0.0400	13.99	-0.005
11/18/99	15:44:02	0.0450	14.00	-0.005
11/18/99	15:44:03	0.0500	14.00	-0.009
11/18/99	15:44:03	0.0550	14.00	-0.039
11/18/99	15:44:03	0.0600	14.00	-0.005
11/18/99	15:44:03	0.0650	14.00	-0.009

11/18/99	15:44:04	0.0700	14.01	-0.005
11/18/99	15:44:04	0.0750	14.01	0.000
11/18/99	15:44:04	0.0800	14.01	-0.014
11/18/99	15:44:05	0.0850	14.01	-1.107
[illegible]/18/99	15:44:05	0.0900	14.01	-0.937
[illegible]/18/99	15:44:05	0.0950	14.02	-1.859
11/18/99	15:44:06	0.1000	14.02	-1.894
11/18/99	15:44:06	0.1058	14.02	-1.700
11/18/99	15:44:06	0.1120	14.02	-1.555
11/18/99	15:44:07	0.1185	14.03	-1.389
11/18/99	15:44:07	0.1255	14.03	-1.248
11/18/99	15:44:07	0.1328	14.03	-1.126
11/18/99	15:44:08	0.1407	14.03	-1.036
11/18/99	15:44:08	0.1490	14.03	-0.950
11/18/99	15:44:09	0.1578	14.03	-0.867
11/18/99	15:44:10	0.1672	14.04	-0.796
11/18/99	15:44:10	0.1770	14.04	-0.729
11/18/99	15:44:11	0.1875	14.04	-0.660
11/18/99	15:44:11	0.1985	14.04	-0.607
11/18/99	15:44:12	0.2102	14.04	-0.528
11/18/99	15:44:13	0.2227	14.05	-0.480
11/18/99	15:44:14	0.2358	14.06	-0.434
11/18/99	15:44:14	0.2498	14.06	-0.383
11/18/99	15:44:15	0.2647	14.06	-0.344
11/18/99	15:44:16	0.2803	14.06	-0.311
11/18/99	15:44:17	0.2970	14.06	-0.274
11/18/99	15:44:18	0.3147	14.06	-0.245
[illegible]/18/99	15:44:20	0.3333	14.06	-0.217
[illegible]/18/99	15:44:21	0.3532	14.06	-0.189
11/18/99	15:44:22	0.3742	14.06	-0.166
11/18/99	15:44:23	0.3963	14.06	-0.145
11/18/99	15:44:25	0.4198	14.06	-0.127
11/18/99	15:44:26	0.4447	14.06	-0.113
11/18/99	15:44:28	0.4697	14.05	-0.095
11/18/99	15:44:29	0.4963	14.05	-0.085
11/18/99	15:44:31	0.5247	14.04	-0.072
11/18/99	15:44:33	0.5547	14.04	-0.062
11/18/99	15:44:35	0.5863	14.04	-0.053
11/18/99	15:44:37	0.6213	14.04	-0.044
11/18/99	15:44:39	0.6580	14.03	-0.035
11/18/99	15:44:41	0.6963	14.03	-0.030
11/18/99	15:44:44	0.7380	14.03	-0.035
11/18/99	15:44:46	0.7813	14.03	-0.025
11/18/99	15:44:49	0.8280	14.01	-0.021
11/18/99	15:44:52	0.8763	14.01	-0.018
11/18/99	15:44:55	0.9280	14.01	-0.018
11/18/99	15:44:58	0.9830	14.00	-0.009
11/18/99	15:45:02	1.0413	13.99	-0.014
11/18/99	15:45:06	1.1030	13.98	-0.009
11/18/99	15:45:10	1.1680	13.97	-0.005
[illegible]/18/99	15:45:14	1.2380	13.96	-0.005
[illegible]/18/99	15:45:18	1.3113	13.96	0.000
11/18/99	15:45:23	1.3897	13.98	0.000
11/18/99	15:45:28	1.4730	14.00	0.000
11/18/99	15:45:33	1.5613	13.97	0.018
11/18/99	15:45:39	1.6547	13.96	0.005

IN_SITU INC. Troll

Report generated: 03/13/00 14:40:57
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\MW-99-2A.BIN
taMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: mwcd-99-02a

Test defined on: 11/18/99 13:33:11
Test started on: 11/19/99 08:10:46
Test stopped on: 11/19/99 08:53:54
Test extracted on: 11/19/99 08:54:20

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 136

TOTAL DATA SAMPLES 136

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

Channel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 4.533 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/19/99	08:10:46	0.0000	17.47	0.000
11/19/99	08:10:46	0.0050	17.48	-0.005
11/19/99	08:10:46	0.0100	17.48	-0.005
11/19/99	08:10:46	0.0150	17.49	-0.005
11/19/99	08:10:47	0.0200	17.49	-0.005
11/19/99	08:10:47	0.0250	17.49	-0.005
11/19/99	08:10:47	0.0300	17.50	-0.009
11/19/99	08:10:48	0.0350	17.50	-0.005
11/19/99	08:10:48	0.0400	17.50	-0.009
11/19/99	08:10:48	0.0450	17.50	-0.005
11/19/99	08:10:49	0.0500	17.51	0.000
11/19/99	08:10:49	0.0550	17.51	-0.369
11/19/99	08:10:49	0.0600	17.51	-0.542
11/19/99	08:10:49	0.0650	17.52	-0.194

11/19/99	08:10:50	0.0700	17.52	-0.085
11/19/99	08:10:50	0.0750	17.51	-0.009
11/19/99	08:10:50	0.0800	17.52	-0.023
11/19/99	08:10:51	0.0850	17.52	-0.032
11/19/99	08:10:51	0.0900	17.52	-0.032
11/19/99	08:10:51	0.0950	17.52	-0.028
11/19/99	08:10:52	0.1000	17.52	-0.023
11/19/99	08:10:52	0.1058	17.52	-0.028
11/19/99	08:10:52	0.1120	17.53	-0.018
11/19/99	08:10:53	0.1185	17.53	-0.018
11/19/99	08:10:53	0.1255	17.53	-0.018
11/19/99	08:10:53	0.1328	17.53	-0.018
11/19/99	08:10:54	0.1407	17.53	-0.018
11/19/99	08:10:54	0.1490	17.53	-0.018
11/19/99	08:10:55	0.1578	17.53	-0.018
11/19/99	08:10:56	0.1672	17.53	-0.014
11/19/99	08:10:56	0.1770	17.54	-0.014
11/19/99	08:10:57	0.1875	17.54	-0.014
11/19/99	08:10:57	0.1985	17.54	-0.014
11/19/99	08:10:58	0.2102	17.53	-0.014
11/19/99	08:10:59	0.2227	17.54	-0.014
11/19/99	08:11:00	0.2358	17.55	-0.014
11/19/99	08:11:00	0.2498	17.55	-0.014
11/19/99	08:11:01	0.2647	17.55	-0.014
11/19/99	08:11:02	0.2803	17.55	-0.014
11/19/99	08:11:03	0.2970	17.55	-0.018
11/19/99	08:11:04	0.3147	17.55	-0.014
11/19/99	08:11:06	0.3333	17.55	-0.014
11/19/99	08:11:07	0.3532	17.54	-0.009
11/19/99	08:11:08	0.3742	17.54	-0.009
11/19/99	08:11:09	0.3963	17.53	-0.014
11/19/99	08:11:11	0.4198	17.53	-0.009
11/19/99	08:11:12	0.4447	17.53	-0.009
11/19/99	08:11:14	0.4697	17.52	-0.009
11/19/99	08:11:15	0.4963	17.52	-0.009
11/19/99	08:11:17	0.5247	17.52	-0.005
11/19/99	08:11:19	0.5547	17.52	-0.005
11/19/99	08:11:21	0.5863	17.51	-0.009
11/19/99	08:11:23	0.6213	17.50	-0.005
11/19/99	08:11:25	0.6580	17.50	-0.005
11/19/99	08:11:27	0.6963	17.49	-0.005
11/19/99	08:11:30	0.7380	17.48	-0.005
11/19/99	08:11:32	0.7813	17.48	-0.005
11/19/99	08:11:35	0.8280	17.47	0.000
11/19/99	08:11:38	0.8763	17.46	0.000
11/19/99	08:11:41	0.9280	17.45	0.000
11/19/99	08:11:44	0.9830	17.45	0.000
11/19/99	08:11:48	1.0413	17.44	0.005
11/19/99	08:11:52	1.1030	17.43	0.005
11/19/99	08:11:56	1.1680	17.42	0.005
11/19/99	08:12:00	1.2380	17.41	0.009
11/19/99	08:12:04	1.3113	17.40	0.005
11/19/99	08:12:09	1.3897	17.39	0.009
11/19/99	08:12:14	1.4730	17.38	0.009
11/19/99	08:12:19	1.5613	17.36	0.014
11/19/99	08:12:25	1.6547	17.35	0.014

11/19/99	08:12:31	1.7530	17.34	0.018
11/19/99	08:12:37	1.8580	17.33	0.018
11/19/99	08:12:44	1.9680	17.32	0.023
11/19/99	08:12:51	2.0847	17.30	0.023
'19/99	08:12:58	2.2097	17.28	0.028
11/19/99	08:13:06	2.3413	17.27	0.023
11/19/99	08:13:14	2.4813	17.25	0.028
11/19/99	08:13:23	2.6297	17.24	0.028
11/19/99	08:13:33	2.7863	17.22	0.032
11/19/99	08:13:43	2.9530	17.21	0.042
11/19/99	08:13:53	3.1297	17.19	0.042
11/19/99	08:14:04	3.3163	17.18	0.042
11/19/99	08:14:16	3.5147	17.16	0.046
11/19/99	08:14:29	3.7247	17.14	0.051
11/19/99	08:14:42	3.9463	17.13	0.055
11/19/99	08:14:56	4.1813	17.11	0.055
11/19/99	08:15:11	4.4297	17.09	0.055
11/19/99	08:15:27	4.6930	17.14	0.060
11/19/99	08:15:44	4.9730	17.09	0.065
11/19/99	08:16:02	5.2697	17.13	0.065
11/19/99	08:16:20	5.5830	17.08	0.069
11/19/99	08:16:40	5.9147	17.05	0.074
11/19/99	08:17:01	6.2663	17.03	0.074
11/19/99	08:17:24	6.6397	17.01	0.083
11/19/99	08:17:48	7.0347	16.98	-4.037
11/19/99	08:18:13	7.4530	16.85	-4.018
11/19/99	08:18:39	7.8963	16.68	-4.032
'19/99	08:19:07	8.3663	16.52	-4.030
11/19/99	08:19:37	8.8647	16.28	-4.046
11/19/99	08:20:09	9.3913	16.05	-4.051
11/19/99	08:20:42	9.9497	15.84	-4.044
11/19/99	08:21:18	10.5413	15.67	-4.044
11/19/99	08:21:56	11.1680	15.55	-4.037
11/19/99	08:22:35	11.8313	15.44	-4.041
11/19/99	08:23:18	12.5347	15.36	-4.046
11/19/99	08:24:02	13.2797	15.29	-4.046
11/19/99	08:24:50	14.0697	15.24	-4.048
11/19/99	08:25:40	14.9063	15.21	-4.048
11/19/99	08:26:33	15.7913	15.18	-4.048
11/19/99	08:27:29	16.7297	15.15	-4.053
11/19/99	08:28:29	17.7230	15.13	-4.057
11/19/99	08:29:29	18.7230	15.13	-4.062
11/19/99	08:30:29	19.7230	15.12	-4.048
11/19/99	08:31:29	20.7230	15.06	-4.044
11/19/99	08:32:29	21.7230	15.01	-4.039
11/19/99	08:33:29	22.7230	14.98	-4.034
11/19/99	08:34:29	23.7230	14.95	-4.025
11/19/99	08:35:29	24.7230	14.99	1.818
11/19/99	08:36:29	25.7230	15.39	1.772
11/19/99	08:37:29	26.7230	15.75	1.755
'19/99	08:38:29	27.7230	16.02	1.737
11/19/99	08:39:29	28.7230	16.23	1.725
11/19/99	08:40:29	29.7230	16.37	1.712
11/19/99	08:41:29	30.7230	16.48	1.712
11/19/99	08:42:29	31.7230	16.57	1.705
11/19/99	08:43:29	32.7230	16.64	1.695

11/19/99	08:44:29	33.7230	16.70	1.691
11/19/99	08:45:29	34.7230	16.74	1.682
11/19/99	08:46:29	35.7230	16.78	1.682
11/19/99	08:47:29	36.7230	16.81	1.677
'19/99	08:48:29	37.7230	16.84	1.672
11/19/99	08:49:29	38.7230	16.85	1.050
11/19/99	08:50:29	39.7230	16.86	1.045
11/19/99	08:51:29	40.7230	16.87	1.050
11/19/99	08:52:29	41.7230	16.88	1.050
11/19/99	08:53:29	42.7230	16.91	1.050

IN_SITU INC. Troll

Report generated: 03/13/00 14:41:11
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\MW-99-2B.BIN
taMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: mwcd-99-02b

Test defined on: 11/18/99 13:27:58
Test started on: 11/18/99 13:28:26
Test stopped on: 11/18/99 13:31:06
Test extracted on: 11/18/99 13:31:17

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 78

TOTAL DATA SAMPLES 78

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

Channel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 17.194 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/18/99	13:28:26	0.0000	15.55	0.000
11/18/99	13:28:26	0.0050	15.55	0.018
11/18/99	13:28:26	0.0100	15.56	0.005
11/18/99	13:28:26	0.0150	15.56	0.009
11/18/99	13:28:27	0.0200	15.56	0.000
11/18/99	13:28:27	0.0250	15.57	-0.005
11/18/99	13:28:27	0.0300	15.58	0.000
11/18/99	13:28:28	0.0350	15.58	-0.009
11/18/99	13:28:28	0.0400	15.58	0.000
11/18/99	13:28:28	0.0450	15.58	-0.009
11/18/99	13:28:29	0.0500	15.59	0.000
11/18/99	13:28:29	0.0550	15.60	-0.018
11/18/99	13:28:29	0.0600	15.60	-0.018
11/18/99	13:28:29	0.0650	15.60	-1.926

11/18/99	13:28:30	0.0700	15.60	-0.923
11/18/99	13:28:30	0.0750	15.61	-1.855
11/18/99	13:28:30	0.0800	15.61	-1.691
11/18/99	13:28:31	0.0850	15.61	-1.465
/18/99	13:28:31	0.0900	15.61	-1.248
11/18/99	13:28:31	0.0950	15.61	-1.068
11/18/99	13:28:32	0.1000	15.62	-0.913
11/18/99	13:28:32	0.1058	15.62	-0.777
11/18/99	13:28:32	0.1120	15.62	-0.660
11/18/99	13:28:33	0.1185	15.62	-0.544
11/18/99	13:28:33	0.1255	15.62	-0.457
11/18/99	13:28:33	0.1328	15.63	-0.385
11/18/99	13:28:34	0.1407	15.63	-0.295
11/18/99	13:28:34	0.1490	15.64	-0.231
11/18/99	13:28:35	0.1578	15.64	-0.201
11/18/99	13:28:36	0.1672	15.64	-0.145
11/18/99	13:28:36	0.1770	15.65	-0.118
11/18/99	13:28:37	0.1875	15.65	-0.088
11/18/99	13:28:37	0.1985	15.65	-0.069
11/18/99	13:28:38	0.2102	15.66	-0.046
11/18/99	13:28:39	0.2227	15.66	-0.032
11/18/99	13:28:40	0.2358	15.66	-0.023
11/18/99	13:28:40	0.2498	15.67	-0.018
11/18/99	13:28:41	0.2647	15.66	-0.018
11/18/99	13:28:42	0.2803	15.67	-0.009
11/18/99	13:28:43	0.2970	15.67	-0.009
11/18/99	13:28:44	0.3147	15.67	-0.009
'18/99	13:28:46	0.3333	15.67	-0.009
11/18/99	13:28:47	0.3532	15.67	-0.009
11/18/99	13:28:48	0.3742	15.67	-0.009
11/18/99	13:28:49	0.3963	15.67	-0.009
11/18/99	13:28:51	0.4198	15.67	-0.009
11/18/99	13:28:52	0.4447	15.67	-0.009
11/18/99	13:28:54	0.4697	15.67	-0.009
11/18/99	13:28:55	0.4963	15.67	-0.007
11/18/99	13:28:57	0.5247	15.67	-0.009
11/18/99	13:28:59	0.5547	15.67	-0.009
11/18/99	13:29:01	0.5863	15.67	-0.007
11/18/99	13:29:03	0.6213	15.67	-0.007
11/18/99	13:29:05	0.6580	15.67	-0.007
11/18/99	13:29:07	0.6963	15.67	-0.007
11/18/99	13:29:10	0.7380	15.66	-0.005
11/18/99	13:29:12	0.7813	15.66	-0.002
11/18/99	13:29:15	0.8280	15.66	-0.002
11/18/99	13:29:18	0.8763	15.65	-0.002
11/18/99	13:29:21	0.9280	15.65	-0.002
11/18/99	13:29:24	0.9830	15.64	0.000
11/18/99	13:29:28	1.0413	15.64	0.000
11/18/99	13:29:32	1.1030	15.64	0.002
11/18/99	13:29:36	1.1680	15.63	0.002
'18/99	13:29:40	1.2380	15.62	0.005
, 18/99	13:29:44	1.3113	15.62	0.005
11/18/99	13:29:49	1.3897	15.62	0.005
11/18/99	13:29:54	1.4730	15.61	0.005
11/18/99	13:29:59	1.5613	15.61	0.007
11/18/99	13:30:05	1.6547	15.60	0.009

11/18/99	13:30:11	1.7530	15.60	0.009
11/18/99	13:30:17	1.8580	15.59	0.030
11/18/99	13:30:24	1.9680	15.58	0.014
11/18/99	13:30:31	2.0847	15.57	0.014
/18/99	13:30:38	2.2097	15.56	0.018
11/18/99	13:30:46	2.3413	15.56	0.005
11/18/99	13:30:54	2.4813	15.55	0.021
11/18/99	13:31:03	2.6297	15.54	0.023

IN_SITU INC. Troll

Report generated: 03/13/00 14:42:15
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\PZ-5D.BIN
taMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: PZ-5D

Test defined on: 11/17/99 18:07:06
Test started on: 11/17/99 18:07:26
Test stopped on: 11/17/99 18:22:24
Test extracted on: 11/17/99 18:22:37

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 108

TOTAL DATA SAMPLES 108

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

Channel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 25.445 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/17/99	18:07:26	0.0000	13.24	0.000
11/17/99	18:07:26	0.0050	13.24	0.000
11/17/99	18:07:26	0.0100	13.25	0.005
11/17/99	18:07:26	0.0150	13.26	0.000
11/17/99	18:07:27	0.0200	13.26	0.000
11/17/99	18:07:27	0.0250	13.27	0.000
11/17/99	18:07:27	0.0300	13.27	-0.005
11/17/99	18:07:28	0.0350	13.28	-0.009
11/17/99	18:07:28	0.0400	13.28	-0.009
11/17/99	18:07:28	0.0450	13.29	-0.009
11/17/99	18:07:29	0.0500	13.29	-0.014
11/17/99	18:07:29	0.0550	13.29	-0.009
11/17/99	18:07:29	0.0600	13.30	-0.441
11/17/99	18:07:29	0.0650	13.30	-1.322

11/17/99	18:07:30	0.0700	13.31	-2.327
11/17/99	18:07:30	0.0750	13.31	-2.445
11/17/99	18:07:30	0.0800	13.32	-1.979
11/17/99	18:07:31	0.0850	13.32	-1.472
[illegible]17/99	18:07:31	0.0900	13.32	-1.349
[illegible]/17/99	18:07:31	0.0950	13.33	-1.449
11/17/99	18:07:32	0.1000	13.33	-1.557
11/17/99	18:07:32	0.1058	13.34	-1.585
11/17/99	18:07:32	0.1120	13.34	-1.552
11/17/99	18:07:33	0.1185	13.35	-1.495
11/17/99	18:07:33	0.1255	13.35	-1.449
11/17/99	18:07:33	0.1328	13.35	-1.400
11/17/99	18:07:34	0.1407	13.36	-1.382
11/17/99	18:07:34	0.1490	13.36	-1.377
11/17/99	18:07:35	0.1578	13.36	-1.377
11/17/99	18:07:36	0.1672	13.37	-1.363
11/17/99	18:07:36	0.1770	13.38	-1.345
11/17/99	18:07:37	0.1875	13.38	-1.326
11/17/99	18:07:37	0.1985	13.39	-1.292
11/17/99	18:07:38	0.2102	13.39	-1.283
11/17/99	18:07:39	0.2227	13.40	-1.273
11/17/99	18:07:40	0.2358	13.41	-1.269
11/17/99	18:07:40	0.2498	13.42	-1.278
11/17/99	18:07:41	0.2647	13.43	-1.273
11/17/99	18:07:42	0.2803	13.43	-1.236
11/17/99	18:07:43	0.2970	13.44	-1.213
11/17/99	18:07:44	0.3147	13.44	-1.195
[illegible]17/99	18:07:46	0.3333	13.46	-1.179
[illegible]/17/99	18:07:47	0.3532	13.46	-1.160
11/17/99	18:07:48	0.3742	13.47	-1.142
11/17/99	18:07:49	0.3963	13.47	-1.123
11/17/99	18:07:51	0.4198	13.48	-1.100
11/17/99	18:07:52	0.4447	13.49	-1.080
11/17/99	18:07:54	0.4697	13.49	-1.056
11/17/99	18:07:55	0.4963	13.50	-1.038
11/17/99	18:07:57	0.5247	13.50	-1.015
11/17/99	18:07:59	0.5547	13.52	-0.992
11/17/99	18:08:01	0.5863	13.52	-0.971
11/17/99	18:08:03	0.6213	13.53	-0.948
11/17/99	18:08:05	0.6580	13.54	-0.920
11/17/99	18:08:07	0.6963	13.55	-0.902
11/17/99	18:08:10	0.7380	13.55	-0.874
11/17/99	18:08:12	0.7813	13.56	-0.849
11/17/99	18:08:15	0.8280	13.57	-0.830
11/17/99	18:08:18	0.8763	13.58	-0.803
11/17/99	18:08:21	0.9280	13.59	-0.780
11/17/99	18:08:24	0.9830	13.60	-0.759
11/17/99	18:08:28	1.0413	13.61	-0.736
11/17/99	18:08:32	1.1030	13.62	-0.708
11/17/99	18:08:36	1.1680	13.63	-0.685
[illegible]17/99	18:08:40	1.2380	13.64	-0.662
[illegible]17/99	18:08:44	1.3113	13.66	-0.637
11/17/99	18:08:49	1.3897	13.67	-0.614
11/17/99	18:08:54	1.4730	13.68	-0.591
11/17/99	18:08:59	1.5613	13.69	-0.567
11/17/99	18:09:05	1.6547	13.70	-0.547

11/17/99	18:09:11	1.7530	13.72	-0.524
11/17/99	18:09:17	1.8580	13.73	-0.501
11/17/99	18:09:24	1.9680	13.75	-0.477
11/17/99	18:09:31	2.0847	13.76	-0.459
'17/99	18:09:38	2.2097	13.78	-0.438
[illegible]/17/99	18:09:46	2.3413	13.79	-0.415
11/17/99	18:09:54	2.4813	13.81	-0.401
11/17/99	18:10:03	2.6297	13.83	-0.378
11/17/99	18:10:13	2.7863	13.83	-0.364
11/17/99	18:10:23	2.9530	13.85	-0.346
11/17/99	18:10:33	3.1297	13.87	-0.330
11/17/99	18:10:44	3.3163	13.88	-0.316
11/17/99	18:10:56	3.5147	13.90	-0.302
11/17/99	18:11:09	3.7247	13.91	-0.288
11/17/99	18:11:22	3.9463	13.92	-0.274
11/17/99	18:11:36	4.1813	13.94	-0.265
11/17/99	18:11:51	4.4297	13.95	-0.256
11/17/99	18:12:07	4.6930	13.96	-0.249
11/17/99	18:12:24	4.9730	13.98	-0.240
11/17/99	18:12:42	5.2697	13.99	-0.235
11/17/99	18:13:00	5.5830	14.00	-0.231
11/17/99	18:13:20	5.9147	14.01	-0.226
11/17/99	18:13:41	6.2663	14.01	-0.221
11/17/99	18:14:04	6.6397	14.02	-0.221
11/17/99	18:14:28	7.0347	14.03	-0.217
11/17/99	18:14:53	7.4530	14.04	-0.217
11/17/99	18:15:19	7.8963	14.04	-0.217
'17/99	18:15:47	8.3663	14.04	-0.217
[illegible]/17/99	18:16:17	8.8647	14.04	-0.212
11/17/99	18:16:49	9.3913	14.05	-0.212
11/17/99	18:17:22	9.9497	14.06	-0.217
11/17/99	18:17:58	10.5413	14.05	-0.217
11/17/99	18:18:36	11.1680	14.06	-0.217
11/17/99	18:19:15	11.8313	14.06	-0.217
11/17/99	18:19:58	12.5347	14.06	-0.217
11/17/99	18:20:42	13.2797	14.06	-0.221
11/17/99	18:21:30	14.0697	14.12	-0.226
11/17/99	18:22:20	14.9063	14.09	-0.231

IN_SITU INC. Troll

Report generated: 03/13/00 14:42:32
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\PZ-9D.BIN
taMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: WC9-D2

Test defined on: 11/18/99 12:11:51
Test started on: 11/18/99 12:12:10
Test stopped on: 11/18/99 12:34:19
Test extracted on: 11/18/99 12:34:31

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 115

TOTAL DATA SAMPLES 115

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

Channel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 19.826 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/18/99	12:12:10	0.0000	17.06	0.000
11/18/99	12:12:10	0.0050	17.06	0.000
11/18/99	12:12:10	0.0100	17.07	-0.012
11/18/99	12:12:10	0.0150	17.08	-0.012
11/18/99	12:12:11	0.0200	17.08	-0.016
11/18/99	12:12:11	0.0250	17.09	-0.007
11/18/99	12:12:11	0.0300	17.09	-0.016
11/18/99	12:12:12	0.0350	17.10	-0.016
11/18/99	12:12:12	0.0400	17.10	-0.025
11/18/99	12:12:12	0.0450	17.11	-0.021
11/18/99	12:12:13	0.0500	17.11	-0.025
11/18/99	12:12:13	0.0550	17.12	-0.030
11/18/99	12:12:13	0.0600	17.12	-0.030
11/18/99	12:12:13	0.0650	17.13	-0.039

11/18/99	12:12:14	0.0700	17.13	-0.053
11/18/99	12:12:14	0.0750	17.13	-0.021
11/18/99	12:12:14	0.0800	17.14	-0.035
11/18/99	12:12:15	0.0850	17.14	-0.018
18/99	12:12:15	0.0900	17.14	-8.184
11/18/99	12:12:15	0.0950	17.15	-2.115
11/18/99	12:12:16	0.1000	17.15	-1.253
11/18/99	12:12:16	0.1058	17.16	-2.397
11/18/99	12:12:16	0.1120	17.16	-2.309
11/18/99	12:12:17	0.1185	17.16	-2.138
11/18/99	12:12:17	0.1255	17.16	-2.120
11/18/99	12:12:17	0.1328	17.17	-2.124
11/18/99	12:12:18	0.1407	17.18	-2.120
11/18/99	12:12:18	0.1490	17.18	-2.111
11/18/99	12:12:19	0.1578	17.19	-2.106
11/18/99	12:12:20	0.1672	17.19	-2.097
11/18/99	12:12:20	0.1770	17.20	-2.083
11/18/99	12:12:21	0.1875	17.21	-2.078
11/18/99	12:12:21	0.1985	17.21	-2.076
11/18/99	12:12:22	0.2102	17.21	-2.062
11/18/99	12:12:23	0.2227	17.22	-2.053
11/18/99	12:12:24	0.2358	17.22	-2.044
11/18/99	12:12:24	0.2498	17.23	-2.034
11/18/99	12:12:25	0.2647	17.24	-2.030
11/18/99	12:12:26	0.2803	17.24	-2.016
11/18/99	12:12:27	0.2970	17.25	-2.007
11/18/99	12:12:28	0.3147	17.25	-2.002
18/99	12:12:30	0.3333	17.26	-1.993
11/18/99	12:12:31	0.3532	17.27	-1.984
11/18/99	12:12:32	0.3742	17.27	-1.977
11/18/99	12:12:33	0.3963	17.28	-1.968
11/18/99	12:12:35	0.4198	17.28	-1.958
11/18/99	12:12:36	0.4447	17.28	-1.949
11/18/99	12:12:38	0.4697	17.30	-1.940
11/18/99	12:12:39	0.4963	17.30	-1.926
11/18/99	12:12:41	0.5247	17.30	-1.917
11/18/99	12:12:43	0.5547	17.32	-1.903
11/18/99	12:12:45	0.5863	17.32	-1.889
11/18/99	12:12:47	0.6213	17.33	-1.880
11/18/99	12:12:49	0.6580	17.33	-1.864
11/18/99	12:12:51	0.6963	17.34	-1.850
11/18/99	12:12:54	0.7380	17.35	-1.841
11/18/99	12:12:56	0.7813	17.36	-1.822
11/18/99	12:12:59	0.8280	17.36	-1.808
11/18/99	12:13:02	0.8763	17.37	-1.790
11/18/99	12:13:05	0.9280	17.38	-1.776
11/18/99	12:13:08	0.9830	17.39	-1.760
11/18/99	12:13:12	1.0413	17.39	-1.742
11/18/99	12:13:16	1.1030	17.41	-1.718
11/18/99	12:13:20	1.1680	17.41	-1.700
18/99	12:13:24	1.2380	17.42	-1.682
11/18/99	12:13:28	1.3113	17.44	-1.665
11/18/99	12:13:33	1.3897	17.44	-1.638
11/18/99	12:13:38	1.4730	17.45	-1.619
11/18/99	12:13:43	1.5613	17.47	-1.596
11/18/99	12:13:49	1.6547	17.48	-1.569

11/18/99	12:13:55	1.7530	17.48	-1.543
11/18/99	12:14:01	1.8580	17.50	-1.520
11/18/99	12:14:08	1.9680	17.52	-1.492
11/18/99	12:14:15	2.0847	17.52	-1.465
11/18/99	12:14:22	2.2097	17.54	-1.439
11/18/99	12:14:30	2.3413	17.55	-1.416
11/18/99	12:14:38	2.4813	17.56	-1.379
11/18/99	12:14:47	2.6297	17.58	-1.354
11/18/99	12:14:57	2.7863	17.59	-1.322
11/18/99	12:15:07	2.9530	17.61	-1.289
11/18/99	12:15:17	3.1297	17.61	-1.253
11/18/99	12:15:28	3.3163	17.63	-1.227
11/18/99	12:15:40	3.5147	17.64	-1.190
11/18/99	12:15:53	3.7247	17.65	-1.153
11/18/99	12:16:06	3.9463	17.67	-1.123
11/18/99	12:16:20	4.1813	17.68	-1.091
11/18/99	12:16:35	4.4297	17.69	-1.059
11/18/99	12:16:51	4.6930	17.70	-1.033
11/18/99	12:17:08	4.9730	17.72	-1.001
11/18/99	12:17:26	5.2697	17.72	-0.960
11/18/99	12:17:44	5.5830	17.73	-0.930
11/18/99	12:18:04	5.9147	17.74	-0.902
11/18/99	12:18:25	6.2663	17.74	-0.874
11/18/99	12:18:48	6.6397	17.75	-0.842
11/18/99	12:19:12	7.0347	17.76	-0.817
11/18/99	12:19:37	7.4530	17.77	-0.789
11/18/99	12:20:03	7.8963	17.77	-0.757
11/18/99	12:20:31	8.3663	17.77	-0.734
11/18/99	12:21:01	8.8647	17.77	-0.715
11/18/99	12:21:33	9.3913	17.78	-0.694
11/18/99	12:22:06	9.9497	17.78	-0.671
11/18/99	12:22:42	10.5413	17.79	-0.657
11/18/99	12:23:20	11.1680	17.79	-0.639
11/18/99	12:23:59	11.8313	17.79	-0.620
11/18/99	12:24:42	12.5347	17.79	-0.604
11/18/99	12:25:26	13.2797	17.79	-0.591
11/18/99	12:26:14	14.0697	17.79	-0.581
11/18/99	12:27:04	14.9063	17.79	-0.567
11/18/99	12:27:57	15.7913	17.79	-0.563
11/18/99	12:28:53	16.7297	17.80	-0.554
11/18/99	12:29:53	17.7230	17.82	-0.549
11/18/99	12:30:53	18.7230	17.82	-0.544
11/18/99	12:31:53	19.7230	17.81	-0.535
11/18/99	12:32:53	20.7230	17.81	-0.535
11/18/99	12:33:53	21.7230	17.88	-0.540

IN_SITU INC. Troll

Report generated: 03/13/00 14:42:52
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC1-1S.BIN
:aMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: WC1-1S

Test defined on: 11/17/99 14:57:57
Test started on: 11/18/99 11:52:50
Test stopped on: 11/18/99 11:54:15
Test extracted on: 11/18/99 11:54:22

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 67

TOTAL DATA SAMPLES 67

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

..annel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 4.632 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/18/99	11:52:50	0.0000	16.66	0.000
11/18/99	11:52:50	0.0050	16.67	0.000
11/18/99	11:52:50	0.0100	16.68	-0.005
11/18/99	11:52:50	0.0150	16.68	0.000
11/18/99	11:52:51	0.0200	16.69	-0.009
11/18/99	11:52:51	0.0250	16.70	-0.005
11/18/99	11:52:51	0.0300	16.71	-0.005
11/18/99	11:52:52	0.0350	16.72	-0.005
11/18/99	11:52:52	0.0400	16.72	-0.005
11/18/99	11:52:52	0.0450	16.73	-0.009
11/18/99	11:52:53	0.0500	16.73	-0.009
11/18/99	11:52:53	0.0550	16.74	-0.009
11/18/99	11:52:53	0.0600	16.75	-0.009
11/18/99	11:52:53	0.0650	16.75	-0.164

11/18/99	11:52:54	0.0700	16.76	-0.897
11/18/99	11:52:54	0.0750	16.76	-0.487
11/18/99	11:52:54	0.0800	16.77	-0.254
11/18/99	11:52:55	0.0850	16.77	-0.136
[illegible]/18/99	11:52:55	0.0900	16.78	-0.090
[illegible]/18/99	11:52:55	0.0950	16.78	-0.069
11/18/99	11:52:56	0.1000	16.79	-0.055
11/18/99	11:52:56	0.1058	16.79	-0.046
11/18/99	11:52:56	0.1120	16.81	-0.046
11/18/99	11:52:57	0.1185	16.81	-0.042
11/18/99	11:52:57	0.1255	16.81	-0.037
11/18/99	11:52:57	0.1328	16.82	-0.037
11/18/99	11:52:58	0.1407	16.83	-0.032
11/18/99	11:52:58	0.1490	16.84	-0.028
11/18/99	11:52:59	0.1578	16.85	-0.028
11/18/99	11:53:00	0.1672	16.86	-0.028
11/18/99	11:53:00	0.1770	16.86	-0.028
11/18/99	11:53:01	0.1875	16.87	-0.023
11/18/99	11:53:01	0.1985	16.87	-0.032
11/18/99	11:53:02	0.2102	16.89	-0.037
11/18/99	11:53:03	0.2227	16.90	-0.032
11/18/99	11:53:04	0.2358	16.91	-0.032
11/18/99	11:53:04	0.2498	16.92	-0.032
11/18/99	11:53:05	0.2647	16.93	-0.037
11/18/99	11:53:06	0.2803	16.94	-0.037
11/18/99	11:53:07	0.2970	16.96	-0.037
11/18/99	11:53:08	0.3147	16.96	-0.032
[illegible]/18/99	11:53:10	0.3333	16.98	-0.037
[illegible]/18/99	11:53:11	0.3532	16.99	-0.042
11/18/99	11:53:12	0.3742	17.01	-0.037
11/18/99	11:53:13	0.3963	17.02	-0.037
11/18/99	11:53:15	0.4198	17.03	-0.042
11/18/99	11:53:16	0.4447	17.05	-0.042
11/18/99	11:53:18	0.4697	17.06	-0.042
11/18/99	11:53:19	0.4963	17.07	-0.046
11/18/99	11:53:21	0.5247	17.09	-0.044
11/18/99	11:53:23	0.5547	17.11	-0.048
11/18/99	11:53:25	0.5863	17.12	-0.048
11/18/99	11:53:27	0.6213	17.14	-0.058
11/18/99	11:53:29	0.6580	17.16	-0.053
11/18/99	11:53:31	0.6963	17.18	-0.058
11/18/99	11:53:34	0.7380	17.20	-0.053
11/18/99	11:53:36	0.7813	17.22	-0.053
11/18/99	11:53:39	0.8280	17.25	-0.058
11/18/99	11:53:42	0.8763	17.27	-0.062
11/18/99	11:53:45	0.9280	17.29	-0.058
11/18/99	11:53:48	0.9830	17.32	-0.067
11/18/99	11:53:52	1.0413	17.36	-0.067
11/18/99	11:53:56	1.1030	17.42	-0.072
11/18/99	11:54:00	1.1680	17.46	-0.072
[illegible]/18/99	11:54:04	1.2380	17.47	-0.072
[illegible]/18/99	11:54:08	1.3113	17.50	-0.072
11/18/99	11:54:13	1.3897	17.53	-0.076

IN_SITU INC. Troll

Report generated: 03/13/00 14:43:06
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC2-1D.BIN
:aMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: WC2-1D

Test defined on: 11/17/99 17:13:39
Test started on: 11/17/99 17:29:46
Test stopped on: 11/17/99 17:42:33
Test extracted on: 11/17/99 17:42:40

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 105

TOTAL DATA SAMPLES 105

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

Channel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 24.668 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/17/99	17:29:46	0.0000	13.70	0.000
11/17/99	17:29:46	0.0050	13.70	-0.005
11/17/99	17:29:46	0.0100	13.71	-0.005
11/17/99	17:29:46	0.0150	13.72	-0.005
11/17/99	17:29:47	0.0200	13.72	-0.005
11/17/99	17:29:47	0.0250	13.72	-0.005
11/17/99	17:29:47	0.0300	13.73	-0.005
11/17/99	17:29:48	0.0350	13.74	-0.067
[illegible]17/99	17:29:48	0.0400	13.74	0.005
[illegible]/17/99	17:29:48	0.0450	13.74	0.014
11/17/99	17:29:49	0.0500	13.75	-0.058
11/17/99	17:29:49	0.0550	13.75	-0.039
11/17/99	17:29:49	0.0600	13.76	0.042
11/17/99	17:29:49	0.0650	13.76	-0.021

11/17/99	17:29:50	0.0700	13.76	-0.053
11/17/99	17:29:50	0.0750	13.77	-1.324
11/17/99	17:29:50	0.0800	13.77	-0.556
11/17/99	17:29:51	0.0850	13.78	-2.249
/17/99	17:29:51	0.0900	13.78	-2.754
11/17/99	17:29:51	0.0950	13.78	-2.261
11/17/99	17:29:52	0.1000	13.79	-1.945
11/17/99	17:29:52	0.1058	13.79	-1.822
11/17/99	17:29:52	0.1120	13.80	-1.804
11/17/99	17:29:53	0.1185	13.80	-1.836
11/17/99	17:29:53	0.1255	13.80	-1.850
11/17/99	17:29:53	0.1328	13.81	-1.850
11/17/99	17:29:54	0.1407	13.81	-1.841
11/17/99	17:29:54	0.1490	13.82	-1.804
11/17/99	17:29:55	0.1578	13.83	-1.797
11/17/99	17:29:56	0.1672	13.83	-1.778
11/17/99	17:29:56	0.1770	13.83	-1.760
11/17/99	17:29:57	0.1875	13.84	-1.742
11/17/99	17:29:57	0.1985	13.84	-1.723
11/17/99	17:29:58	0.2102	13.84	-1.700
11/17/99	17:29:59	0.2227	13.85	-1.679
11/17/99	17:30:00	0.2358	13.86	-1.661
11/17/99	17:30:00	0.2498	13.87	-1.638
11/17/99	17:30:01	0.2647	13.87	-1.615
11/17/99	17:30:02	0.2803	13.88	-1.592
11/17/99	17:30:03	0.2970	13.88	-1.566
11/17/99	17:30:04	0.3147	13.89	-1.543
'17/99	17:30:06	0.3333	13.89	-1.520
11/17/99	17:30:07	0.3532	13.90	-1.492
11/17/99	17:30:08	0.3742	13.90	-1.467
11/17/99	17:30:09	0.3963	13.90	-1.444
11/17/99	17:30:11	0.4198	13.92	-1.412
11/17/99	17:30:12	0.4447	13.92	-1.379
11/17/99	17:30:14	0.4697	13.92	-1.354
11/17/99	17:30:15	0.4963	13.94	-1.322
11/17/99	17:30:17	0.5247	13.94	-1.289
11/17/99	17:30:19	0.5547	13.94	-1.257
11/17/99	17:30:21	0.5863	13.95	-1.223
11/17/99	17:30:23	0.6213	13.95	-1.190
11/17/99	17:30:25	0.6580	13.96	-1.153
11/17/99	17:30:27	0.6963	13.96	-1.110
11/17/99	17:30:30	0.7380	13.97	-1.077
11/17/99	17:30:32	0.7813	13.98	-1.040
11/17/99	17:30:35	0.8280	13.98	-1.006
11/17/99	17:30:38	0.8763	13.99	-0.964
11/17/99	17:30:41	0.9280	14.00	-0.927
11/17/99	17:30:44	0.9830	14.00	-0.883
11/17/99	17:30:48	1.0413	14.01	-0.842
11/17/99	17:30:52	1.1030	14.01	-0.800
11/17/99	17:30:56	1.1680	14.02	-0.761
'17/99	17:31:00	1.2380	14.03	-0.720
11/17/99	17:31:04	1.3113	14.04	-0.653
11/17/99	17:31:09	1.3897	14.04	-0.639
11/17/99	17:31:14	1.4730	14.05	-0.602
11/17/99	17:31:19	1.5613	14.06	-0.563
11/17/99	17:31:25	1.6547	14.07	-0.526

11/17/99	17:31:31	1.7530	14.08	-0.484
11/17/99	17:31:37	1.8580	14.09	-0.454
11/17/99	17:31:44	1.9680	14.09	-0.418
11/17/99	17:31:51	2.0847	14.10	-0.381
11/17/99	17:31:58	2.2097	14.11	-0.353
11/17/99	17:32:06	2.3413	14.12	-0.328
11/17/99	17:32:14	2.4813	14.12	-0.300
11/17/99	17:32:23	2.6297	14.13	-0.272
11/17/99	17:32:33	2.7863	14.14	-0.249
11/17/99	17:32:43	2.9530	14.15	-0.228
11/17/99	17:32:53	3.1297	14.15	-0.210
11/17/99	17:33:04	3.3163	14.16	-0.191
11/17/99	17:33:16	3.5147	14.17	-0.178
11/17/99	17:33:29	3.7247	14.18	-0.164
11/17/99	17:33:42	3.9463	14.18	-0.150
11/17/99	17:33:56	4.1813	14.19	-0.145
11/17/99	17:34:11	4.4297	14.20	-0.141
11/17/99	17:34:27	4.6930	14.20	-0.141
11/17/99	17:34:44	4.9730	14.21	-0.136
11/17/99	17:35:02	5.2697	14.21	-0.131
11/17/99	17:35:20	5.5830	14.21	-0.136
11/17/99	17:35:40	5.9147	14.22	-0.131
11/17/99	17:36:01	6.2663	14.22	-0.131
11/17/99	17:36:24	6.6397	14.22	-0.131
11/17/99	17:36:48	7.0347	14.23	-0.134
11/17/99	17:37:13	7.4530	14.23	-0.134
11/17/99	17:37:39	7.8963	14.22	-0.131
11/17/99	17:38:07	8.3663	14.22	-0.131
11/17/99	17:38:37	8.8647	14.23	-0.134
11/17/99	17:39:09	9.3913	14.23	-0.129
11/17/99	17:39:42	9.9497	14.22	-0.129
11/17/99	17:40:18	10.5413	14.22	-0.129
11/17/99	17:40:56	11.1680	14.22	-0.131
11/17/99	17:41:35	11.8313	14.22	-0.101
11/17/99	17:42:18	12.5347	14.21	-0.129

IN_SITU INC. Troll

Report generated: 03/13/00 14:43:23
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC2-1I1.BIN
:aMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: WC2-1I

Test defined on: 11/17/99 16:54:28
Test started on: 11/17/99 17:02:33
Test stopped on: 11/17/99 17:04:55
Test extracted on: 11/17/99 17:06:01

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 76

TOTAL DATA SAMPLES 76

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

Channel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 29.834 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/17/99	17:02:33	0.0000	13.85	0.000
11/17/99	17:02:33	0.0050	13.86	-0.032
11/17/99	17:02:33	0.0100	13.86	-0.014
11/17/99	17:02:33	0.0150	13.87	0.042
11/17/99	17:02:34	0.0200	13.87	0.067
11/17/99	17:02:34	0.0250	13.88	0.104
11/17/99	17:02:34	0.0300	13.88	0.141
11/17/99	17:02:35	0.0350	13.88	0.173
11/17/99	17:02:35	0.0400	13.89	0.198
11/17/99	17:02:35	0.0450	13.89	0.231
11/17/99	17:02:36	0.0500	13.90	0.263
11/17/99	17:02:36	0.0550	13.90	0.295
11/17/99	17:02:36	0.0600	13.90	0.334
11/17/99	17:02:36	0.0650	13.91	0.348

11/17/99	17:02:37	0.0700	13.91	0.376
11/17/99	17:02:37	0.0750	13.92	0.394
11/17/99	17:02:37	0.0800	13.92	0.422
11/17/99	17:02:38	0.0850	13.92	0.452
/17/99	17:02:38	0.0900	13.92	0.452
11/17/99	17:02:38	0.0950	13.93	0.494
11/17/99	17:02:39	0.1000	13.94	0.517
11/17/99	17:02:39	0.1058	13.94	0.561
11/17/99	17:02:39	0.1120	13.94	0.593
11/17/99	17:02:40	0.1185	13.94	0.611
11/17/99	17:02:40	0.1255	13.94	0.634
11/17/99	17:02:40	0.1328	13.95	0.662
11/17/99	17:02:41	0.1407	13.95	0.683
11/17/99	17:02:41	0.1490	13.96	0.710
11/17/99	17:02:42	0.1578	13.96	0.738
11/17/99	17:02:43	0.1672	13.96	0.761
11/17/99	17:02:43	0.1770	13.97	0.793
11/17/99	17:02:44	0.1875	13.98	0.823
11/17/99	17:02:44	0.1985	13.98	0.847
11/17/99	17:02:45	0.2102	13.99	0.893
11/17/99	17:02:46	0.2227	13.99	0.925
11/17/99	17:02:47	0.2358	14.00	0.941
11/17/99	17:02:47	0.2498	14.00	0.987
11/17/99	17:02:48	0.2647	14.01	1.020
11/17/99	17:02:49	0.2803	14.01	1.059
11/17/99	17:02:50	0.2970	14.01	1.086
11/17/99	17:02:51	0.3147	14.03	1.123
/17/99	17:02:53	0.3333	14.03	1.160
/17/99	17:02:54	0.3532	14.03	1.190
11/17/99	17:02:55	0.3742	14.03	1.227
11/17/99	17:02:56	0.3963	14.04	1.255
11/17/99	17:02:58	0.4198	14.04	1.292
11/17/99	17:02:59	0.4447	14.04	1.322
11/17/99	17:03:01	0.4697	14.04	1.354
11/17/99	17:03:02	0.4963	14.05	1.382
11/17/99	17:03:04	0.5247	14.06	1.409
11/17/99	17:03:06	0.5547	14.06	1.432
11/17/99	17:03:08	0.5863	14.06	1.458
11/17/99	17:03:10	0.6213	14.07	1.481
11/17/99	17:03:12	0.6580	14.07	1.504
11/17/99	17:03:14	0.6963	14.07	1.527
11/17/99	17:03:17	0.7380	14.08	1.550
11/17/99	17:03:19	0.7813	14.09	1.566
11/17/99	17:03:22	0.8280	14.09	1.585
11/17/99	17:03:25	0.8763	14.09	1.599
11/17/99	17:03:28	0.9280	14.09	1.617
11/17/99	17:03:31	0.9830	14.10	1.626
11/17/99	17:03:35	1.0413	14.10	1.640
11/17/99	17:03:39	1.1030	14.10	1.645
11/17/99	17:03:43	1.1680	14.11	1.654
/17/99	17:03:47	1.2380	14.11	1.658
/17/99	17:03:51	1.3113	14.12	1.668
11/17/99	17:03:56	1.3897	14.12	1.672
11/17/99	17:04:01	1.4730	14.12	1.677
11/17/99	17:04:06	1.5613	14.12	1.684
11/17/99	17:04:12	1.6547	14.13	1.679

11/17/99	17:04:18	1.7530	14.14	1.688
11/17/99	17:04:24	1.8580	14.14	1.684
11/17/99	17:04:31	1.9680	14.14	1.684
11/17/99	17:04:38	2.0847	14.15	1.684
'17/99	17:04:45	2.2097	14.15	1.688
11/17/99	17:04:53	2.3413	14.15	1.693

IN_SITU INC. Troll

Report generated: 03/13/00 14:43:39
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC2-1I2.BIN
:aMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: WC2-1I

Test defined on: 11/17/99 16:54:28
Test started on: 11/17/99 17:08:10
Test stopped on: 11/17/99 17:10:22
Test extracted on: 11/17/99 17:12:38

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 74

TOTAL DATA SAMPLES 74

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

Channel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 31.537 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/17/99	17:08:10	0.0000	14.42	0.000
11/17/99	17:08:10	0.0050	14.43	0.005
11/17/99	17:08:10	0.0100	14.43	-0.005
11/17/99	17:08:10	0.0150	14.43	0.000
11/17/99	17:08:11	0.0200	14.44	-0.009
11/17/99	17:08:11	0.0250	14.44	0.000
11/17/99	17:08:11	0.0300	14.44	0.005
11/17/99	17:08:12	0.0350	14.45	-0.005
17/99	17:08:12	0.0400	14.45	0.000
11/17/99	17:08:12	0.0450	14.46	-0.005
11/17/99	17:08:13	0.0500	14.46	0.000
11/17/99	17:08:13	0.0550	14.46	-0.005
11/17/99	17:08:13	0.0600	14.46	-0.005
11/17/99	17:08:13	0.0650	14.47	-0.005

11/17/99	17:08:14	0.0700	14.47	-0.005
11/17/99	17:08:14	0.0750	14.47	-0.009
11/17/99	17:08:14	0.0800	14.47	-0.009
11/17/99	17:08:15	0.0850	14.47	-0.005
/17/99	17:08:15	0.0900	14.47	0.000
11/17/99	17:08:15	0.0950	14.48	-2.390
11/17/99	17:08:16	0.1000	14.48	-2.897
11/17/99	17:08:16	0.1058	14.49	-1.629
11/17/99	17:08:16	0.1120	14.49	-1.776
11/17/99	17:08:17	0.1185	14.49	-1.765
11/17/99	17:08:17	0.1255	14.49	-1.705
11/17/99	17:08:17	0.1328	14.49	-1.658
11/17/99	17:08:18	0.1407	14.50	-1.624
11/17/99	17:08:18	0.1490	14.50	-1.582
11/17/99	17:08:19	0.1578	14.50	-1.536
11/17/99	17:08:20	0.1672	14.50	-1.492
11/17/99	17:08:20	0.1770	14.51	-1.446
11/17/99	17:08:21	0.1875	14.51	-1.405
11/17/99	17:08:21	0.1985	14.51	-1.278
11/17/99	17:08:22	0.2102	14.51	-1.248
11/17/99	17:08:23	0.2227	14.52	-1.183
11/17/99	17:08:24	0.2358	14.52	-1.139
11/17/99	17:08:24	0.2498	14.52	-1.093
11/17/99	17:08:25	0.2647	14.52	-1.043
11/17/99	17:08:26	0.2803	14.53	-0.999
11/17/99	17:08:27	0.2970	14.53	-0.948
11/17/99	17:08:28	0.3147	14.53	-0.897
'17/99	17:08:30	0.3333	14.54	-0.853
11/17/99	17:08:31	0.3532	14.54	-0.803
11/17/99	17:08:32	0.3742	14.54	-0.754
11/17/99	17:08:33	0.3963	14.54	-0.708
11/17/99	17:08:35	0.4198	14.54	-0.662
11/17/99	17:08:36	0.4447	14.54	-0.618
11/17/99	17:08:38	0.4697	14.54	-0.567
11/17/99	17:08:39	0.4963	14.54	-0.526
11/17/99	17:08:41	0.5247	14.54	-0.487
11/17/99	17:08:43	0.5547	14.54	-0.445
11/17/99	17:08:45	0.5863	14.53	-0.408
11/17/99	17:08:47	0.6213	14.53	-0.374
11/17/99	17:08:49	0.6580	14.53	-0.337
11/17/99	17:08:51	0.6963	14.53	-0.300
11/17/99	17:08:54	0.7380	14.53	-0.272
11/17/99	17:08:56	0.7813	14.53	-0.242
11/17/99	17:08:59	0.8280	14.52	-0.219
11/17/99	17:09:02	0.8763	14.52	-0.191
11/17/99	17:09:05	0.9280	14.52	-0.168
11/17/99	17:09:08	0.9830	14.52	-0.145
11/17/99	17:09:12	1.0413	14.51	-0.127
11/17/99	17:09:16	1.1030	14.51	-0.111
11/17/99	17:09:20	1.1680	14.50	-0.097
'17/99	17:09:24	1.2380	14.50	-0.088
11/17/99	17:09:28	1.3113	14.50	-0.060
11/17/99	17:09:33	1.3897	14.50	-0.069
11/17/99	17:09:38	1.4730	14.49	-0.065
11/17/99	17:09:43	1.5613	14.49	-0.055
11/17/99	17:09:49	1.6547	14.48	-0.051

11/17/99	17:09:55	1.7530	14.47	-0.042
11/17/99	17:10:01	1.8580	14.47	-0.037
11/17/99	17:10:08	1.9680	14.47	-0.037
11/17/99	17:10:15	2.0847	14.46	-0.037

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Report generated: 03/13/00 14:43:57
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC2-1S.BIN
:aMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: WC2-1S

Test defined on: 11/17/99 16:20:32
Test started on: 11/17/99 16:20:58
Test stopped on: 11/17/99 16:22:31
Test extracted on: 11/17/99 16:26:19

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 68

TOTAL DATA SAMPLES 68

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

Channel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 5.785 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/17/99	16:20:58	0.0000	14.47	0.000
11/17/99	16:20:58	0.0050	14.49	0.127
11/17/99	16:20:58	0.0100	14.49	0.268
11/17/99	16:20:58	0.0150	14.50	0.376
11/17/99	16:20:59	0.0200	14.50	0.471
11/17/99	16:20:59	0.0250	14.51	0.542
11/17/99	16:20:59	0.0300	14.52	0.588
11/17/99	16:21:00	0.0350	14.52	0.641
11/17/99	16:21:00	0.0400	14.53	0.678
11/17/99	16:21:00	0.0450	14.54	0.704
11/17/99	16:21:01	0.0500	14.55	0.731
11/17/99	16:21:01	0.0550	14.55	0.745
11/17/99	16:21:01	0.0600	14.55	0.759
11/17/99	16:21:01	0.0650	14.56	0.768

11/17/99	16:21:02	0.0700	14.56	0.775
11/17/99	16:21:02	0.0750	14.57	0.780
11/17/99	16:21:02	0.0800	14.58	0.784
11/17/99	16:21:03	0.0850	14.58	0.789
11/17/99	16:21:03	0.0900	14.59	0.793
11/17/99	16:21:03	0.0950	14.60	0.803
11/17/99	16:21:04	0.1000	14.60	0.803
11/17/99	16:21:04	0.1058	14.61	0.807
11/17/99	16:21:04	0.1120	14.61	0.812
11/17/99	16:21:05	0.1185	14.61	0.807
11/17/99	16:21:05	0.1255	14.62	0.803
11/17/99	16:21:05	0.1328	14.62	0.817
11/17/99	16:21:06	0.1407	14.63	0.821
11/17/99	16:21:06	0.1490	14.64	0.826
11/17/99	16:21:07	0.1578	14.65	0.826
11/17/99	16:21:08	0.1672	14.65	0.826
11/17/99	16:21:08	0.1770	14.66	0.826
11/17/99	16:21:09	0.1875	14.67	0.821
11/17/99	16:21:09	0.1985	14.67	0.821
11/17/99	16:21:10	0.2102	14.69	0.826
11/17/99	16:21:11	0.2227	14.70	0.826
11/17/99	16:21:12	0.2358	14.70	0.826
11/17/99	16:21:12	0.2498	14.71	0.826
11/17/99	16:21:13	0.2647	14.72	0.826
11/17/99	16:21:14	0.2803	14.73	0.830
11/17/99	16:21:15	0.2970	14.75	0.826
11/17/99	16:21:16	0.3147	14.75	0.826
11/17/99	16:21:18	0.3333	14.76	0.823
11/17/99	16:21:19	0.3532	14.78	0.828
11/17/99	16:21:20	0.3742	14.79	0.823
11/17/99	16:21:21	0.3963	14.80	0.828
11/17/99	16:21:23	0.4198	14.81	0.828
11/17/99	16:21:24	0.4447	14.82	0.828
11/17/99	16:21:26	0.4697	14.84	0.833
11/17/99	16:21:27	0.4963	14.85	0.828
11/17/99	16:21:29	0.5247	14.86	0.823
11/17/99	16:21:31	0.5547	14.88	0.823
11/17/99	16:21:33	0.5863	14.89	0.823
11/17/99	16:21:35	0.6213	14.91	0.823
11/17/99	16:21:37	0.6580	14.92	0.823
11/17/99	16:21:39	0.6963	14.94	0.823
11/17/99	16:21:42	0.7380	14.96	0.823
11/17/99	16:21:44	0.7813	14.98	0.823
11/17/99	16:21:47	0.8280	15.00	0.823
11/17/99	16:21:50	0.8763	15.01	0.819
11/17/99	16:21:53	0.9280	15.03	0.810
11/17/99	16:21:56	0.9830	15.05	0.819
11/17/99	16:22:00	1.0413	15.07	0.819
11/17/99	16:22:04	1.1030	15.10	0.823
11/17/99	16:22:08	1.1680	15.12	0.796
11/17/99	16:22:12	1.2380	15.14	0.819
11/17/99	16:22:16	1.3113	15.17	0.810
11/17/99	16:22:21	1.3897	15.20	0.807
11/17/99	16:22:26	1.4730	15.22	0.807

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Report generated: 03/13/00 14:44:22
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC2-2D.BIN
:aMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: WC2-2D

Test defined on: 11/18/99 09:02:56
Test started on: 11/18/99 09:03:15
Test stopped on: 11/18/99 09:06:08
Test extracted on: 11/18/99 09:06:29

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 79

TOTAL DATA SAMPLES 79

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

Channel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 25.982 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/18/99	09:03:15	0.0000	17.08	0.000
11/18/99	09:03:15	0.0050	17.09	-0.018
11/18/99	09:03:15	0.0100	17.10	-0.014
11/18/99	09:03:15	0.0150	17.10	-0.014
11/18/99	09:03:16	0.0200	17.10	-0.014
11/18/99	09:03:16	0.0250	17.10	-0.009
11/18/99	09:03:16	0.0300	17.11	-0.028
11/18/99	09:03:17	0.0350	17.11	-0.046
11/18/99	09:03:17	0.0400	17.11	-0.018
11/18/99	09:03:17	0.0450	17.12	-0.023
11/18/99	09:03:18	0.0500	17.12	-0.014
11/18/99	09:03:18	0.0550	17.13	-0.028
11/18/99	09:03:18	0.0600	17.13	-0.060
11/18/99	09:03:18	0.0650	17.13	-0.254

11/18/99	09:03:19	0.0700	17.14	-0.060
11/18/99	09:03:19	0.0750	17.14	-0.242
11/18/99	09:03:19	0.0800	17.14	-0.355
11/18/99	09:03:20	0.0850	17.14	-1.442
11/18/99	09:03:20	0.0900	17.14	-1.626
11/18/99	09:03:20	0.0950	17.15	-1.469
11/18/99	09:03:21	0.1000	17.15	-1.296
11/18/99	09:03:21	0.1058	17.15	-1.123
11/18/99	09:03:21	0.1120	17.16	-0.966
11/18/99	09:03:22	0.1185	17.16	-0.807
11/18/99	09:03:22	0.1255	17.16	-0.667
11/18/99	09:03:22	0.1328	17.16	-0.540
11/18/99	09:03:23	0.1407	17.17	-0.436
11/18/99	09:03:23	0.1490	17.17	-0.346
11/18/99	09:03:24	0.1578	17.18	-0.277
11/18/99	09:03:25	0.1672	17.18	-0.224
11/18/99	09:03:25	0.1770	17.18	-0.182
11/18/99	09:03:26	0.1875	17.19	-0.150
11/18/99	09:03:26	0.1985	17.18	-0.101
11/18/99	09:03:27	0.2102	17.18	-0.092
11/18/99	09:03:28	0.2227	17.19	-0.083
11/18/99	09:03:29	0.2358	17.19	-0.074
11/18/99	09:03:29	0.2498	17.20	-0.069
11/18/99	09:03:30	0.2647	17.21	-0.065
11/18/99	09:03:31	0.2803	17.21	-0.060
11/18/99	09:03:32	0.2970	17.21	-0.055
11/18/99	09:03:33	0.3147	17.21	-0.051
11/18/99	09:03:35	0.3333	17.22	-0.046
11/18/99	09:03:36	0.3532	17.22	-0.046
11/18/99	09:03:37	0.3742	17.22	-0.046
11/18/99	09:03:38	0.3963	17.22	-0.042
11/18/99	09:03:40	0.4198	17.22	-0.042
11/18/99	09:03:41	0.4447	17.22	-0.037
11/18/99	09:03:43	0.4697	17.22	-0.037
11/18/99	09:03:44	0.4963	17.22	-0.037
11/18/99	09:03:46	0.5247	17.22	-0.037
11/18/99	09:03:48	0.5547	17.22	-0.037
11/18/99	09:03:50	0.5863	17.23	-0.037
11/18/99	09:03:52	0.6213	17.23	-0.037
11/18/99	09:03:54	0.6580	17.23	-0.032
11/18/99	09:03:56	0.6963	17.23	-0.032
11/18/99	09:03:59	0.7380	17.23	-0.032
11/18/99	09:04:01	0.7813	17.23	-0.037
11/18/99	09:04:04	0.8280	17.23	-0.032
11/18/99	09:04:07	0.8763	17.23	-0.037
11/18/99	09:04:10	0.9280	17.23	-0.028
11/18/99	09:04:13	0.9830	17.23	-0.032
11/18/99	09:04:17	1.0413	17.22	-0.032
11/18/99	09:04:21	1.1030	17.23	-0.028
11/18/99	09:04:25	1.1680	17.22	-0.032
11/18/99	09:04:29	1.2380	17.22	-0.032
11/18/99	09:04:33	1.3113	17.23	-0.037
11/18/99	09:04:38	1.3897	17.22	-0.032
11/18/99	09:04:43	1.4730	17.22	-0.032
11/18/99	09:04:48	1.5613	17.22	-0.032
11/18/99	09:04:54	1.6547	17.22	-0.028

11/18/99	09:05:00	1.7530	17.22	-0.032
11/18/99	09:05:06	1.8580	17.22	-0.032
11/18/99	09:05:13	1.9680	17.22	-0.037
11/18/99	09:05:20	2.0847	17.21	-0.032
'18/99	09:05:27	2.2097	17.21	-0.037
11/18/99	09:05:35	2.3413	17.27	-0.042
11/18/99	09:05:43	2.4813	17.30	-0.037
11/18/99	09:05:52	2.6297	17.33	-0.042
11/18/99	09:06:02	2.7863	17.30	-0.042

IN_SITU INC. Troll

Report generated: 03/13/00 14:45:40
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC2-2I.BIN
:aMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: WC2-2I

Test defined on: 11/17/99 19:03:32
Test started on: 11/17/99 19:04:44
Test stopped on: 11/17/99 19:08:19
Test extracted on: 11/17/99 19:08:26

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 83

TOTAL DATA SAMPLES 83

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

..annel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 13.909 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/17/99	19:04:44	0.0000	15.56	0.000
11/17/99	19:04:44	0.0050	15.56	0.000
11/17/99	19:04:44	0.0100	15.57	0.000
11/17/99	19:04:44	0.0150	15.58	0.000
11/17/99	19:04:45	0.0200	15.58	-0.005
11/17/99	19:04:45	0.0250	15.59	-0.005
11/17/99	19:04:45	0.0300	15.60	-0.009
11/17/99	19:04:46	0.0350	15.60	-0.005
17/99	19:04:46	0.0400	15.61	-0.009
17/99	19:04:46	0.0450	15.60	-0.009
11/17/99	19:04:47	0.0500	15.61	-0.009
11/17/99	19:04:47	0.0550	15.61	-0.009
11/17/99	19:04:47	0.0600	15.62	-0.014
11/17/99	19:04:47	0.0650	15.62	-0.014

11/17/99	19:04:48	0.0700	15.62	-1.315
11/17/99	19:04:48	0.0750	15.63	-1.229
11/17/99	19:04:48	0.0800	15.64	-1.947
11/17/99	19:04:49	0.0850	15.64	-1.808
11/17/99	19:04:49	0.0900	15.64	-1.677
11/17/99	19:04:49	0.0950	15.64	-1.592
11/17/99	19:04:50	0.1000	15.65	-1.527
11/17/99	19:04:50	0.1058	15.65	-1.465
11/17/99	19:04:50	0.1120	15.66	-1.400
11/17/99	19:04:51	0.1185	15.66	-1.333
11/17/99	19:04:51	0.1255	15.66	-1.276
11/17/99	19:04:51	0.1328	15.67	-1.206
11/17/99	19:04:52	0.1407	15.67	-1.149
11/17/99	19:04:52	0.1490	15.68	-1.084
11/17/99	19:04:53	0.1578	15.69	-1.022
11/17/99	19:04:54	0.1672	15.69	-0.960
11/17/99	19:04:54	0.1770	15.69	-0.895
11/17/99	19:04:55	0.1875	15.70	-0.833
11/17/99	19:04:55	0.1985	15.70	-0.664
11/17/99	19:04:56	0.2102	15.70	-0.616
11/17/99	19:04:57	0.2227	15.71	-0.579
11/17/99	19:04:58	0.2358	15.72	-0.521
11/17/99	19:04:58	0.2498	15.72	-0.475
11/17/99	19:04:59	0.2647	15.73	-0.436
11/17/99	19:05:00	0.2803	15.73	-0.394
11/17/99	19:05:01	0.2970	15.74	-0.353
11/17/99	19:05:02	0.3147	15.75	-0.318
11/17/99	19:05:04	0.3333	15.75	-0.286
11/17/99	19:05:05	0.3532	15.76	-0.254
11/17/99	19:05:06	0.3742	15.76	-0.228
11/17/99	19:05:07	0.3963	15.77	-0.201
11/17/99	19:05:09	0.4198	15.78	-0.182
11/17/99	19:05:10	0.4447	15.78	-0.164
11/17/99	19:05:12	0.4697	15.78	-0.143
11/17/99	19:05:13	0.4963	15.79	-0.134
11/17/99	19:05:15	0.5247	15.80	-0.120
11/17/99	19:05:17	0.5547	15.80	-0.106
11/17/99	19:05:19	0.5863	15.81	-0.097
11/17/99	19:05:21	0.6213	15.81	-0.088
11/17/99	19:05:23	0.6580	15.81	-0.078
11/17/99	19:05:25	0.6963	15.82	-0.074
11/17/99	19:05:28	0.7380	15.82	-0.065
11/17/99	19:05:30	0.7813	15.83	-0.051
11/17/99	19:05:33	0.8280	15.84	-0.069
11/17/99	19:05:36	0.8763	15.84	-0.065
11/17/99	19:05:39	0.9280	15.85	-0.065
11/17/99	19:05:42	0.9830	15.86	-0.060
11/17/99	19:05:46	1.0413	15.86	-0.060
11/17/99	19:05:50	1.1030	15.86	-0.055
11/17/99	19:05:54	1.1680	15.87	-0.060
11/17/99	19:05:58	1.2380	15.88	-0.065
11/17/99	19:06:02	1.3113	15.89	-0.060
11/17/99	19:06:07	1.3897	15.89	-0.058
11/17/99	19:06:12	1.4730	15.90	-0.058
11/17/99	19:06:17	1.5613	15.90	-0.058
11/17/99	19:06:23	1.6547	15.91	-0.058

11/17/99	19:06:29	1.7530	15.92	-0.058
11/17/99	19:06:35	1.8580	15.93	-0.062
11/17/99	19:06:42	1.9680	15.93	-0.062
11/17/99	19:06:49	2.0847	15.94	-0.062
'17/99	19:06:56	2.2097	15.95	-0.058
11/17/99	19:07:04	2.3413	15.96	-0.067
11/17/99	19:07:12	2.4813	15.96	-0.062
11/17/99	19:07:21	2.6297	15.97	-0.062
11/17/99	19:07:31	2.7863	15.98	-0.076
11/17/99	19:07:41	2.9530	15.99	-0.062
11/17/99	19:07:51	3.1297	16.00	-0.072
11/17/99	19:08:02	3.3163	16.06	-0.076
11/17/99	19:08:14	3.5147	16.05	-0.081

IN_SITU INC. Troll

Report generated: 03/13/00 14:45:56
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC2-3D.BIN
aMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: WC2-3D

Test defined on: 11/18/99 09:21:15
Test started on: 11/18/99 09:21:32
Test stopped on: 11/18/99 09:23:53
Test extracted on: 11/18/99 09:24:03

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 76

TOTAL DATA SAMPLES 76

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

Channel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 31.327 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/18/99	09:21:32	0.0000	16.12	0.000
11/18/99	09:21:32	0.0050	16.12	-0.005
11/18/99	09:21:32	0.0100	16.12	-0.005
11/18/99	09:21:32	0.0150	16.13	-0.005
11/18/99	09:21:33	0.0200	16.13	-0.005
11/18/99	09:21:33	0.0250	16.14	-0.005
11/18/99	09:21:33	0.0300	16.15	-0.032
11/18/99	09:21:34	0.0350	16.15	-0.074
11/18/99	09:21:34	0.0400	16.16	-0.023
11/18/99	09:21:34	0.0450	16.16	-0.028
11/18/99	09:21:35	0.0500	16.16	-0.005
11/18/99	09:21:35	0.0550	16.17	-0.567
11/18/99	09:21:35	0.0600	16.18	-0.454
11/18/99	09:21:35	0.0650	16.18	-2.620

11/18/99	09:21:36	0.0700	16.18	-2.108
11/18/99	09:21:36	0.0750	16.19	-1.901
11/18/99	09:21:36	0.0800	16.19	-1.728
11/18/99	09:21:37	0.0850	16.19	-1.663
[illegible]/18/99	09:21:37	0.0900	16.19	-1.642
11/18/99	09:21:37	0.0950	16.20	-1.596
11/18/99	09:21:38	0.1000	16.20	-1.550
11/18/99	09:21:38	0.1058	16.21	-1.502
11/18/99	09:21:38	0.1120	16.21	-1.460
11/18/99	09:21:39	0.1185	16.21	-1.412
11/18/99	09:21:39	0.1255	16.22	-1.366
11/18/99	09:21:39	0.1328	16.23	-1.315
11/18/99	09:21:40	0.1407	16.23	-1.266
11/18/99	09:21:40	0.1490	16.23	-1.216
11/18/99	09:21:41	0.1578	16.24	-1.160
11/18/99	09:21:42	0.1672	16.24	-1.112
11/18/99	09:21:42	0.1770	16.25	-1.056
11/18/99	09:21:43	0.1875	16.26	-1.008
11/18/99	09:21:43	0.1985	16.26	-0.863
11/18/99	09:21:44	0.2102	16.26	-0.826
11/18/99	09:21:45	0.2227	16.27	-0.764
11/18/99	09:21:46	0.2358	16.28	-0.713
11/18/99	09:21:46	0.2498	16.28	-0.662
11/18/99	09:21:47	0.2647	16.29	-0.618
11/18/99	09:21:48	0.2803	16.30	-0.572
11/18/99	09:21:49	0.2970	16.30	-0.526
11/18/99	09:21:50	0.3147	16.31	-0.482
[illegible]/18/99	09:21:52	0.3333	16.32	-0.441
[illegible]/18/99	09:21:53	0.3532	16.32	-0.399
11/18/99	09:21:54	0.3742	16.33	-0.364
11/18/99	09:21:55	0.3963	16.33	-0.328
11/18/99	09:21:57	0.4198	16.34	-0.295
11/18/99	09:21:58	0.4447	16.34	-0.265
11/18/99	09:22:00	0.4697	16.35	-0.228
11/18/99	09:22:01	0.4963	16.35	-0.205
11/18/99	09:22:03	0.5247	16.36	-0.182
11/18/99	09:22:05	0.5547	16.36	-0.164
11/18/99	09:22:07	0.5863	16.38	-0.148
11/18/99	09:22:09	0.6213	16.38	-0.129
11/18/99	09:22:11	0.6580	16.39	-0.111
11/18/99	09:22:13	0.6963	16.39	-0.097
11/18/99	09:22:16	0.7380	16.40	-0.083
11/18/99	09:22:18	0.7813	16.41	-0.074
11/18/99	09:22:21	0.8280	16.41	-0.069
11/18/99	09:22:24	0.8763	16.42	-0.065
11/18/99	09:22:27	0.9280	16.42	-0.055
11/18/99	09:22:30	0.9830	16.44	-0.051
11/18/99	09:22:34	1.0413	16.44	-0.046
11/18/99	09:22:38	1.1030	16.45	-0.046
11/18/99	09:22:42	1.1680	16.46	-0.046
[illegible]/18/99	09:22:46	1.2380	16.47	-0.046
[illegible]/18/99	09:22:50	1.3113	16.48	-0.042
11/18/99	09:22:55	1.3897	16.48	-0.042
11/18/99	09:23:00	1.4730	16.50	-0.042
11/18/99	09:23:05	1.5613	16.50	-0.046
11/18/99	09:23:11	1.6547	16.52	-0.046

11/18/99	09:23:17	1.7530	16.53	-0.046
11/18/99	09:23:23	1.8580	16.58	-0.055
11/18/99	09:23:30	1.9680	16.60	-0.053
11/18/99	09:23:37	2.0847	16.60	-0.053
11/18/99	09:23:44	2.2097	16.61	-0.053
11/18/99	09:23:52	2.3413	16.61	-0.053

IN_SITU INC. Troll

Report generated: 03/13/00 14:46:15
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC2-3I.BIN
:aMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: WC2-3I

Test defined on: 11/17/99 19:21:09
Test started on: 11/17/99 19:21:45
Test stopped on: 11/17/99 19:25:42
Test extracted on: 11/17/99 19:26:07

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 85

TOTAL DATA SAMPLES 85

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

..annel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 18.569 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/17/99	19:21:45	0.0000	14.40	0.000
11/17/99	19:21:45	0.0050	14.41	-0.046
11/17/99	19:21:45	0.0100	14.41	-0.009
11/17/99	19:21:45	0.0150	14.42	-0.023
11/17/99	19:21:46	0.0200	14.42	-0.023
11/17/99	19:21:46	0.0250	14.42	-0.018
11/17/99	19:21:46	0.0300	14.44	-0.005
11/17/99	19:21:47	0.0350	14.44	-0.032
11/17/99	19:21:47	0.0400	14.44	-0.042
11/17/99	19:21:47	0.0450	14.46	-0.014
11/17/99	19:21:48	0.0500	14.46	-0.023
11/17/99	19:21:48	0.0550	14.46	-0.014
11/17/99	19:21:48	0.0600	14.47	-0.032
11/17/99	19:21:48	0.0650	14.47	-0.023

11/17/99	19:21:49	0.0700	14.47	-0.009
11/17/99	19:21:49	0.0750	14.48	-2.081
11/17/99	19:21:49	0.0800	14.48	-2.284
11/17/99	19:21:50	0.0850	14.49	-1.968
11/17/99	19:21:50	0.0900	14.49	-1.654
11/17/99	19:21:50	0.0950	14.50	-1.578
11/17/99	19:21:51	0.1000	14.50	-1.539
11/17/99	19:21:51	0.1058	14.50	-1.483
11/17/99	19:21:51	0.1120	14.51	-1.430
11/17/99	19:21:52	0.1185	14.52	-1.375
11/17/99	19:21:52	0.1255	14.52	-1.322
11/17/99	19:21:52	0.1328	14.53	-1.257
11/17/99	19:21:53	0.1407	14.53	-1.204
11/17/99	19:21:53	0.1490	14.54	-1.144
11/17/99	19:21:54	0.1578	14.55	-1.086
11/17/99	19:21:55	0.1672	14.55	-1.026
11/17/99	19:21:55	0.1770	14.55	-0.973
11/17/99	19:21:56	0.1875	14.56	-0.918
11/17/99	19:21:56	0.1985	14.56	-0.757
11/17/99	19:21:57	0.2102	14.57	-0.706
11/17/99	19:21:58	0.2227	14.58	-0.671
11/17/99	19:21:59	0.2358	14.60	-0.607
11/17/99	19:21:59	0.2498	14.60	-0.567
11/17/99	19:22:00	0.2647	14.61	-0.517
11/17/99	19:22:01	0.2803	14.61	-0.475
11/17/99	19:22:02	0.2970	14.62	-0.436
11/17/99	19:22:03	0.3147	14.63	-0.394
11/17/99	19:22:05	0.3333	14.64	-0.355
11/17/99	19:22:06	0.3532	14.65	-0.323
11/17/99	19:22:07	0.3742	14.66	-0.286
11/17/99	19:22:08	0.3963	14.66	-0.254
11/17/99	19:22:10	0.4198	14.67	-0.228
11/17/99	19:22:11	0.4447	14.68	-0.201
11/17/99	19:22:13	0.4697	14.69	-0.178
11/17/99	19:22:14	0.4963	14.69	-0.155
11/17/99	19:22:16	0.5247	14.70	-0.138
11/17/99	19:22:18	0.5547	14.71	-0.120
11/17/99	19:22:20	0.5863	14.72	-0.106
11/17/99	19:22:22	0.6213	14.73	-0.092
11/17/99	19:22:24	0.6580	14.73	-0.078
11/17/99	19:22:26	0.6963	14.75	-0.069
11/17/99	19:22:29	0.7380	14.76	-0.060
11/17/99	19:22:31	0.7813	14.77	-0.055
11/17/99	19:22:34	0.8280	14.78	-0.053
11/17/99	19:22:37	0.8763	14.79	-0.048
11/17/99	19:22:40	0.9280	14.80	-0.044
11/17/99	19:22:43	0.9830	14.81	-0.039
11/17/99	19:22:47	1.0413	14.82	-0.039
11/17/99	19:22:51	1.1030	14.84	-0.035
11/17/99	19:22:55	1.1680	14.85	-0.035
11/17/99	19:22:59	1.2380	14.86	-0.035
11/17/99	19:23:03	1.3113	14.87	-0.035
11/17/99	19:23:08	1.3897	14.89	-0.035
11/17/99	19:23:13	1.4730	14.90	-0.035
11/17/99	19:23:18	1.5613	14.92	-0.035
11/17/99	19:23:24	1.6547	14.93	-0.035

11/17/99	19:23:30	1.7530	14.95	-0.035
11/17/99	19:23:36	1.8580	14.96	-0.035
11/17/99	19:23:43	1.9680	14.98	-0.035
11/17/99	19:23:50	2.0847	15.00	-0.035
'17/99	19:23:57	2.2097	15.01	-0.039
11/17/99	19:24:05	2.3413	15.02	-0.039
11/17/99	19:24:13	2.4813	15.04	-0.039
11/17/99	19:24:22	2.6297	15.06	-0.039
11/17/99	19:24:32	2.7863	15.07	-0.044
11/17/99	19:24:42	2.9530	15.09	-0.072
11/17/99	19:24:52	3.1297	15.11	-0.053
11/17/99	19:25:03	3.3163	15.12	-0.048
11/17/99	19:25:15	3.5147	15.20	-0.058
11/17/99	19:25:28	3.7247	15.20	-0.053
11/17/99	19:25:41	3.9463	15.21	-0.058

IN_SITU INC. Troll

Report generated: 03/13/00 14:46:33
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC2-3S.BIN
:aMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: WC2-3S

Test defined on: 11/17/99 18:53:53
Test started on: 11/17/99 18:56:25
Test stopped on: 11/17/99 18:58:27
Test extracted on: 11/17/99 18:58:39

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 73

TOTAL DATA SAMPLES 73

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

Channel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 6.622 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/17/99	18:56:25	0.0000	14.71	0.000
11/17/99	18:56:25	0.0050	14.72	0.018
11/17/99	18:56:25	0.0100	14.73	0.018
11/17/99	18:56:25	0.0150	14.73	0.014
11/17/99	18:56:26	0.0200	14.74	0.014
11/17/99	18:56:26	0.0250	14.75	0.018
11/17/99	18:56:26	0.0300	14.75	0.018
11/17/99	18:56:27	0.0350	14.76	0.014
11/17/99	18:56:27	0.0400	14.76	0.014
11/17/99	18:56:27	0.0450	14.76	0.014
11/17/99	18:56:28	0.0500	14.77	0.018
11/17/99	18:56:28	0.0550	14.78	0.014
11/17/99	18:56:28	0.0600	14.78	0.014
11/17/99	18:56:28	0.0650	14.79	0.014

11/17/99	18:56:29	0.0700	14.80	-3.878
11/17/99	18:56:29	0.0750	14.80	-1.940
11/17/99	18:56:29	0.0800	14.80	-1.331
11/17/99	18:56:30	0.0850	14.81	-1.158
11/17/99	18:56:30	0.0900	14.81	-1.010
11/17/99	18:56:30	0.0950	14.82	-0.851
11/17/99	18:56:31	0.1000	14.82	-0.717
11/17/99	18:56:31	0.1058	14.82	-0.600
11/17/99	18:56:31	0.1120	14.82	-0.496
11/17/99	18:56:32	0.1185	14.83	-0.401
11/17/99	18:56:32	0.1255	14.84	-0.330
11/17/99	18:56:32	0.1328	14.84	-0.270
11/17/99	18:56:33	0.1407	14.85	-0.221
11/17/99	18:56:33	0.1490	14.86	-0.185
11/17/99	18:56:34	0.1578	14.86	-0.161
11/17/99	18:56:35	0.1672	14.87	-0.145
11/17/99	18:56:35	0.1770	14.87	-0.108
11/17/99	18:56:36	0.1875	14.88	-0.108
11/17/99	18:56:36	0.1985	14.89	-0.099
11/17/99	18:56:37	0.2102	14.89	-0.095
11/17/99	18:56:38	0.2227	14.90	-0.090
11/17/99	18:56:39	0.2358	14.91	-0.081
11/17/99	18:56:39	0.2498	14.92	-0.072
11/17/99	18:56:40	0.2647	14.93	-0.072
11/17/99	18:56:41	0.2803	14.93	-0.062
11/17/99	18:56:42	0.2970	14.94	-0.060
11/17/99	18:56:43	0.3147	14.95	-0.055
11/17/99	18:56:45	0.3333	14.96	-0.055
11/17/99	18:56:46	0.3532	14.96	-0.051
11/17/99	18:56:47	0.3742	14.98	-0.046
11/17/99	18:56:48	0.3963	14.99	-0.051
11/17/99	18:56:50	0.4198	15.00	-0.046
11/17/99	18:56:51	0.4447	15.00	-0.037
11/17/99	18:56:53	0.4697	15.01	-0.042
11/17/99	18:56:54	0.4963	15.02	-0.037
11/17/99	18:56:56	0.5247	15.02	-0.037
11/17/99	18:56:58	0.5547	15.04	-0.032
11/17/99	18:57:00	0.5863	15.05	-0.032
11/17/99	18:57:02	0.6213	15.06	-0.032
11/17/99	18:57:04	0.6580	15.07	-0.028
11/17/99	18:57:06	0.6963	15.08	-0.028
11/17/99	18:57:09	0.7380	15.09	-0.023
11/17/99	18:57:11	0.7813	15.10	-0.023
11/17/99	18:57:14	0.8280	15.12	-0.018
11/17/99	18:57:17	0.8763	15.13	-0.055
11/17/99	18:57:20	0.9280	15.14	-0.018
11/17/99	18:57:23	0.9830	15.16	-0.021
11/17/99	18:57:27	1.0413	15.17	-0.012
11/17/99	18:57:31	1.1030	15.19	-0.016
11/17/99	18:57:35	1.1680	15.20	-0.016
11/17/99	18:57:39	1.2380	15.22	-0.021
11/17/99	18:57:43	1.3113	15.24	-0.021
11/17/99	18:57:48	1.3897	15.26	-0.025
11/17/99	18:57:53	1.4730	15.27	-0.021
11/17/99	18:57:58	1.5613	15.33	-0.030
11/17/99	18:58:04	1.6547	15.36	-0.030

11/17/99	18:58:10	1.7530	15.38	-0.025
11/17/99	18:58:16	1.8580	15.39	-0.025
11/17/99	18:58:23	1.9680	15.41	-0.025

IN_SITU INC. Troll

Report generated: 03/13/00 14:46:55
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC2-4I.BIN
:aMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: WC2-4I

Test defined on: 11/18/99 10:04:08
Test started on: 11/18/99 10:04:26
Test stopped on: 11/18/99 10:06:09
Test extracted on: 11/18/99 10:06:18

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 70

TOTAL DATA SAMPLES 70

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

Channel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 13.805 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/18/99	10:04:26	0.0000	17.53	0.000
11/18/99	10:04:26	0.0050	17.53	-0.009
11/18/99	10:04:26	0.0100	17.54	-0.014
11/18/99	10:04:26	0.0150	17.55	-0.009
11/18/99	10:04:27	0.0200	17.55	-0.018
11/18/99	10:04:27	0.0250	17.55	-0.042
11/18/99	10:04:27	0.0300	17.56	-0.005
11/18/99	10:04:28	0.0350	17.56	-0.018
11/18/99	10:04:28	0.0400	17.57	-0.018
11/18/99	10:04:28	0.0450	17.57	-0.005
11/18/99	10:04:29	0.0500	17.58	-0.002
11/18/99	10:04:29	0.0550	17.58	-0.007
11/18/99	10:04:29	0.0600	17.59	-0.009
11/18/99	10:04:29	0.0650	17.59	-0.023

11/18/99	10:04:30	0.0700	17.59	-1.975
11/18/99	10:04:30	0.0750	17.59	-1.483
11/18/99	10:04:30	0.0800	17.60	-1.492
11/18/99	10:04:31	0.0850	17.60	-1.319
11/18/99	10:04:31	0.0900	17.61	-1.054
11/18/99	10:04:31	0.0950	17.61	-0.791
11/18/99	10:04:32	0.1000	17.61	-0.570
11/18/99	10:04:32	0.1058	17.61	-0.399
11/18/99	10:04:32	0.1120	17.62	-0.281
11/18/99	10:04:33	0.1185	17.62	-0.201
11/18/99	10:04:33	0.1255	17.62	-0.145
11/18/99	10:04:33	0.1328	17.63	-0.111
11/18/99	10:04:34	0.1407	17.64	-0.092
11/18/99	10:04:34	0.1490	17.64	-0.083
11/18/99	10:04:35	0.1578	17.64	-0.078
11/18/99	10:04:36	0.1672	17.65	-0.074
11/18/99	10:04:36	0.1770	17.65	-0.069
11/18/99	10:04:37	0.1875	17.65	-0.065
11/18/99	10:04:37	0.1985	17.65	-0.055
11/18/99	10:04:38	0.2102	17.65	-0.051
11/18/99	10:04:39	0.2227	17.67	-0.046
11/18/99	10:04:40	0.2358	17.67	-0.046
11/18/99	10:04:40	0.2498	17.68	-0.046
11/18/99	10:04:41	0.2647	17.68	-0.046
11/18/99	10:04:42	0.2803	17.69	-0.042
11/18/99	10:04:43	0.2970	17.69	-0.042
11/18/99	10:04:44	0.3147	17.70	-0.042
11/18/99	10:04:46	0.3333	17.70	-0.042
11/18/99	10:04:47	0.3532	17.71	-0.042
11/18/99	10:04:48	0.3742	17.72	-0.042
11/18/99	10:04:49	0.3963	17.71	-0.042
11/18/99	10:04:51	0.4198	17.72	-0.037
11/18/99	10:04:52	0.4447	17.72	-0.037
11/18/99	10:04:54	0.4697	17.73	-0.037
11/18/99	10:04:55	0.4963	17.73	-0.037
11/18/99	10:04:57	0.5247	17.73	-0.037
11/18/99	10:04:59	0.5547	17.74	-0.039
11/18/99	10:05:01	0.5863	17.74	-0.035
11/18/99	10:05:03	0.6213	17.75	-0.046
11/18/99	10:05:05	0.6580	17.75	-0.035
11/18/99	10:05:07	0.6963	17.76	-0.039
11/18/99	10:05:10	0.7380	17.76	-0.039
11/18/99	10:05:12	0.7813	17.76	-0.039
11/18/99	10:05:15	0.8280	17.77	-0.039
11/18/99	10:05:18	0.8763	17.77	-0.039
11/18/99	10:05:21	0.9280	17.78	-0.035
11/18/99	10:05:24	0.9830	17.78	-0.035
11/18/99	10:05:28	1.0413	17.79	-0.035
11/18/99	10:05:32	1.1030	17.79	-0.030
11/18/99	10:05:36	1.1680	17.80	-0.025
11/18/99	10:05:40	1.2380	17.85	-0.044
11/18/99	10:05:44	1.3113	17.88	-0.048
11/18/99	10:05:49	1.3897	17.88	-0.048
11/18/99	10:05:54	1.4730	17.88	-0.048
11/18/99	10:05:59	1.5613	17.88	-0.044
11/18/99	10:06:05	1.6547	17.88	-0.044

IN_SITU INC. Troll

Report generated: 03/13/00 14:47:18
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC2-4S.BIN
aMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: WC2-4S

Test defined on: 11/18/99 09:54:01
Test started on: 11/18/99 09:54:26
Test stopped on: 11/18/99 09:56:09
Test extracted on: 11/18/99 09:56:15

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 70

TOTAL DATA SAMPLES 70

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

Channel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 5.801 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/18/99	09:54:26	0.0000	16.38	0.000
11/18/99	09:54:26	0.0050	16.38	0.005
11/18/99	09:54:26	0.0100	16.39	0.005
11/18/99	09:54:26	0.0150	16.40	0.000
11/18/99	09:54:27	0.0200	16.41	-0.005
11/18/99	09:54:27	0.0250	16.41	-0.005
11/18/99	09:54:27	0.0300	16.42	-0.005
11/18/99	09:54:28	0.0350	16.42	-0.009
11/18/99	09:54:28	0.0400	16.43	0.000
11/18/99	09:54:28	0.0450	16.44	0.000
11/18/99	09:54:29	0.0500	16.44	0.000
11/18/99	09:54:29	0.0550	16.45	-0.028
11/18/99	09:54:29	0.0600	16.45	-0.028
11/18/99	09:54:29	0.0650	16.46	0.009

11/18/99	09:54:30	0.0700	16.46	-0.009
11/18/99	09:54:30	0.0750	16.47	-1.091
11/18/99	09:54:30	0.0800	16.47	-0.983
11/18/99	09:54:31	0.0850	16.48	-0.572
'18/99	09:54:31	0.0900	16.48	-0.321
11/18/99	09:54:31	0.0950	16.49	-0.171
11/18/99	09:54:32	0.1000	16.49	-0.108
11/18/99	09:54:32	0.1058	16.50	-0.072
11/18/99	09:54:32	0.1120	16.50	-0.055
11/18/99	09:54:33	0.1185	16.51	-0.042
11/18/99	09:54:33	0.1255	16.52	-0.037
11/18/99	09:54:33	0.1328	16.52	-0.037
11/18/99	09:54:34	0.1407	16.53	-0.032
11/18/99	09:54:34	0.1490	16.53	-0.028
11/18/99	09:54:35	0.1578	16.54	-0.028
11/18/99	09:54:36	0.1672	16.55	-0.028
11/18/99	09:54:36	0.1770	16.56	-0.028
11/18/99	09:54:37	0.1875	16.56	-0.023
11/18/99	09:54:37	0.1985	16.57	-0.028
11/18/99	09:54:38	0.2102	16.58	-0.032
11/18/99	09:54:39	0.2227	16.59	-0.028
11/18/99	09:54:40	0.2358	16.60	-0.028
11/18/99	09:54:40	0.2498	16.61	-0.032
11/18/99	09:54:41	0.2647	16.62	-0.032
11/18/99	09:54:42	0.2803	16.63	-0.032
11/18/99	09:54:43	0.2970	16.64	-0.028
11/18/99	09:54:44	0.3147	16.65	-0.037
'18/99	09:54:46	0.3333	16.66	-0.037
11/18/99	09:54:47	0.3532	16.67	-0.037
11/18/99	09:54:48	0.3742	16.68	-0.032
11/18/99	09:54:49	0.3963	16.69	-0.032
11/18/99	09:54:51	0.4198	16.70	-0.032
11/18/99	09:54:52	0.4447	16.72	-0.023
11/18/99	09:54:54	0.4697	16.72	-0.037
11/18/99	09:54:55	0.4963	16.73	-0.037
11/18/99	09:54:57	0.5247	16.75	-0.037
11/18/99	09:54:59	0.5547	16.76	-0.042
11/18/99	09:55:01	0.5863	16.77	-0.037
11/18/99	09:55:03	0.6213	16.79	-0.042
11/18/99	09:55:05	0.6580	16.81	-0.042
11/18/99	09:55:07	0.6963	16.82	-0.042
11/18/99	09:55:10	0.7380	16.83	-0.042
11/18/99	09:55:12	0.7813	16.85	-0.046
11/18/99	09:55:15	0.8280	16.87	-0.046
11/18/99	09:55:18	0.8763	16.90	-0.053
11/18/99	09:55:21	0.9280	16.95	-0.058
11/18/99	09:55:24	0.9830	16.96	-0.058
11/18/99	09:55:28	1.0413	17.01	-0.062
11/18/99	09:55:32	1.1030	17.05	-0.058
11/18/99	09:55:36	1.1680	17.10	-0.067
'18/99	09:55:40	1.2380	17.14	-0.067
11/18/99	09:55:44	1.3113	17.18	-0.067
11/18/99	09:55:49	1.3897	17.20	-0.072
11/18/99	09:55:54	1.4730	17.20	-0.076
11/18/99	09:55:59	1.5613	17.22	-0.076
11/18/99	09:56:05	1.6547	17.24	-0.076

IN_SITU INC. Troll

Report generated: 03/13/00 14:47:37
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC2-5I.BIN
:aMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: WC2-5I

Test defined on: 11/19/99 10:43:49
Test started on: 11/19/99 10:44:11
Test stopped on: 11/19/99 10:46:05
Test extracted on: 11/19/99 10:46:26

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 72

TOTAL DATA SAMPLES 72

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

Channel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 9.914 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/19/99	10:44:11	0.0000	19.01	0.000
11/19/99	10:44:11	0.0050	19.01	0.051
11/19/99	10:44:11	0.0100	19.02	0.023
11/19/99	10:44:11	0.0150	19.02	0.032
11/19/99	10:44:12	0.0200	19.02	-0.053
11/19/99	10:44:12	0.0250	19.03	0.018
11/19/99	10:44:12	0.0300	19.03	-0.018
11/19/99	10:44:13	0.0350	19.04	0.014
11/19/99	10:44:13	0.0400	19.04	0.028
11/19/99	10:44:13	0.0450	19.04	0.042
11/19/99	10:44:14	0.0500	19.04	-0.018
11/19/99	10:44:14	0.0550	19.04	0.051
11/19/99	10:44:14	0.0600	19.04	-0.005
11/19/99	10:44:14	0.0650	19.05	0.005

11/19/99	10:44:15	0.0700	19.05	0.037
11/19/99	10:44:15	0.0750	19.05	-0.254
11/19/99	10:44:15	0.0800	19.05	-1.075
11/19/99	10:44:16	0.0850	19.05	-1.269
19/99	10:44:16	0.0900	19.05	-1.165
11/19/99	10:44:16	0.0950	19.05	-1.010
11/19/99	10:44:17	0.1000	19.05	-0.826
11/19/99	10:44:17	0.1058	19.06	-0.692
11/19/99	10:44:17	0.1120	19.06	-0.514
11/19/99	10:44:18	0.1185	19.06	-0.429
11/19/99	10:44:18	0.1255	19.06	-0.330
11/19/99	10:44:18	0.1328	19.07	-0.254
11/19/99	10:44:19	0.1407	19.07	-0.189
11/19/99	10:44:19	0.1490	19.07	-0.145
11/19/99	10:44:20	0.1578	19.07	-0.099
11/19/99	10:44:21	0.1672	19.07	-0.072
11/19/99	10:44:21	0.1770	19.07	-0.051
11/19/99	10:44:22	0.1875	19.07	-0.037
11/19/99	10:44:22	0.1985	19.06	-0.009
11/19/99	10:44:23	0.2102	19.06	-0.009
11/19/99	10:44:24	0.2227	19.07	-0.005
11/19/99	10:44:25	0.2358	19.07	0.005
11/19/99	10:44:25	0.2498	19.07	0.005
11/19/99	10:44:26	0.2647	19.07	0.009
11/19/99	10:44:27	0.2803	19.07	0.009
11/19/99	10:44:28	0.2970	19.07	0.009
11/19/99	10:44:29	0.3147	19.07	0.014
19/99	10:44:31	0.3333	19.07	0.014
19/99	10:44:32	0.3532	19.07	0.018
11/19/99	10:44:33	0.3742	19.07	0.018
11/19/99	10:44:34	0.3963	19.06	0.018
11/19/99	10:44:36	0.4198	19.05	0.023
11/19/99	10:44:37	0.4447	19.05	0.018
11/19/99	10:44:39	0.4697	19.05	0.028
11/19/99	10:44:40	0.4963	19.05	0.023
11/19/99	10:44:42	0.5247	19.04	0.028
11/19/99	10:44:44	0.5547	19.04	0.028
11/19/99	10:44:46	0.5863	19.03	0.028
11/19/99	10:44:48	0.6213	19.03	0.028
11/19/99	10:44:50	0.6580	19.02	0.028
11/19/99	10:44:52	0.6963	19.01	0.028
11/19/99	10:44:55	0.7380	19.02	0.042
11/19/99	10:44:57	0.7813	19.04	0.028
11/19/99	10:45:00	0.8280	19.05	0.042
11/19/99	10:45:03	0.8763	19.03	0.032
11/19/99	10:45:06	0.9280	19.01	0.028
11/19/99	10:45:09	0.9830	19.00	0.028
11/19/99	10:45:13	1.0413	18.98	0.032
11/19/99	10:45:17	1.1030	18.97	0.037
11/19/99	10:45:21	1.1680	18.96	0.037
19/99	10:45:25	1.2380	18.94	0.037
19/99	10:45:29	1.3113	18.93	0.042
11/19/99	10:45:34	1.3897	18.91	0.042
11/19/99	10:45:39	1.4730	18.92	0.042
11/19/99	10:45:44	1.5613	18.94	0.037
11/19/99	10:45:50	1.6547	18.91	0.042

11/19/99	10:45:56	1.7530	18.88	0.046
11/19/99	10:46:02	1.8580	18.86	0.046

IN_SITU INC. Troll

Report generated: 03/13/00 14:47:59
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC2-5S.BIN
:aMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: WC2-5S

Test defined on: 11/18/99 10:28:11
Test started on: 11/18/99 10:29:51
Test stopped on: 11/18/99 10:31:23
Test extracted on: 11/18/99 10:31:34

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 68

TOTAL DATA SAMPLES 68

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

Channel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 4.270 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/18/99	10:29:51	0.0000	17.82	0.000
11/18/99	10:29:51	0.0050	17.83	0.000
11/18/99	10:29:51	0.0100	17.84	0.000
11/18/99	10:29:51	0.0150	17.84	0.000
11/18/99	10:29:52	0.0200	17.85	-0.005
11/18/99	10:29:52	0.0250	17.85	-0.005
11/18/99	10:29:52	0.0300	17.85	-0.005
11/18/99	10:29:53	0.0350	17.86	-0.005
11/18/99	10:29:53	0.0400	17.87	-0.005
11/18/99	10:29:53	0.0450	17.87	-0.005
11/18/99	10:29:54	0.0500	17.87	-0.005
11/18/99	10:29:54	0.0550	17.88	-0.009
11/18/99	10:29:54	0.0600	17.88	-0.009
11/18/99	10:29:54	0.0650	17.88	-0.005

11/18/99	10:29:55	0.0700	17.89	-0.773
11/18/99	10:29:55	0.0750	17.89	-0.745
11/18/99	10:29:55	0.0800	17.90	-0.496
11/18/99	10:29:56	0.0850	17.90	-0.249
18/99	10:29:56	0.0900	17.90	-0.217
11/18/99	10:29:56	0.0950	17.90	-0.127
11/18/99	10:29:57	0.1000	17.91	-0.095
11/18/99	10:29:57	0.1058	17.91	-0.051
11/18/99	10:29:57	0.1120	17.91	-0.037
11/18/99	10:29:58	0.1185	17.92	-0.028
11/18/99	10:29:58	0.1255	17.92	-0.023
11/18/99	10:29:58	0.1328	17.93	-0.023
11/18/99	10:29:59	0.1407	17.93	-0.018
11/18/99	10:29:59	0.1490	17.94	-0.018
11/18/99	10:30:00	0.1578	17.94	-0.014
11/18/99	10:30:01	0.1672	17.94	-0.014
11/18/99	10:30:01	0.1770	17.95	-0.014
11/18/99	10:30:02	0.1875	17.96	-0.018
11/18/99	10:30:02	0.1985	17.96	-0.023
11/18/99	10:30:03	0.2102	17.96	-0.023
11/18/99	10:30:04	0.2227	17.97	-0.018
11/18/99	10:30:05	0.2358	17.98	-0.023
11/18/99	10:30:05	0.2498	17.98	-0.023
11/18/99	10:30:06	0.2647	17.99	-0.023
11/18/99	10:30:07	0.2803	17.99	-0.023
11/18/99	10:30:08	0.2970	18.00	-0.023
11/18/99	10:30:09	0.3147	18.00	-0.023
18/99	10:30:11	0.3333	18.00	-0.023
11/18/99	10:30:12	0.3532	18.01	-0.023
11/18/99	10:30:13	0.3742	18.02	-0.023
11/18/99	10:30:14	0.3963	18.02	-0.028
11/18/99	10:30:16	0.4198	18.02	-0.023
11/18/99	10:30:17	0.4447	18.03	-0.028
11/18/99	10:30:19	0.4697	18.04	-0.028
11/18/99	10:30:20	0.4963	18.04	-0.028
11/18/99	10:30:22	0.5247	18.04	-0.028
11/18/99	10:30:24	0.5547	18.05	-0.028
11/18/99	10:30:26	0.5863	18.05	-0.028
11/18/99	10:30:28	0.6213	18.06	-0.028
11/18/99	10:30:30	0.6580	18.07	-0.028
11/18/99	10:30:32	0.6963	18.07	-0.032
11/18/99	10:30:35	0.7380	18.07	-0.028
11/18/99	10:30:37	0.7813	18.08	-0.032
11/18/99	10:30:40	0.8280	18.09	-0.032
11/18/99	10:30:43	0.8763	18.10	-0.032
11/18/99	10:30:46	0.9280	18.10	-0.032
11/18/99	10:30:49	0.9830	18.10	-0.037
11/18/99	10:30:53	1.0413	18.11	-0.037
11/18/99	10:30:57	1.1030	18.12	-0.037
11/18/99	10:31:01	1.1680	18.16	-0.042
18/99	10:31:05	1.2380	18.19	-0.042
11/18/99	10:31:09	1.3113	18.19	-0.042
11/18/99	10:31:14	1.3897	18.18	-0.046
11/18/99	10:31:19	1.4730	18.19	-0.042

IN_SITU INC. Troll

Report generated: 03/13/00 14:48:18
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC2-6I.BIN
:aMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: WC2-6I

Test defined on: 11/18/99 08:25:27
Test started on: 11/18/99 08:36:00
Test stopped on: 11/18/99 08:38:10
Test extracted on: 11/18/99 08:38:23

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 74

TOTAL DATA SAMPLES 74

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

Channel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 24.944 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/18/99	08:36:00	0.0000	16.05	0.000
11/18/99	08:36:00	0.0050	16.06	0.009
11/18/99	08:36:00	0.0100	16.06	0.000
11/18/99	08:36:00	0.0150	16.06	0.005
11/18/99	08:36:01	0.0200	16.06	0.014
11/18/99	08:36:01	0.0250	16.07	0.005
11/18/99	08:36:01	0.0300	16.07	0.005
11/18/99	08:36:02	0.0350	16.08	-0.014
18/99	08:36:02	0.0400	16.08	0.014
11/18/99	08:36:02	0.0450	16.08	0.005
11/18/99	08:36:03	0.0500	16.08	0.014
11/18/99	08:36:03	0.0550	16.08	0.009
11/18/99	08:36:03	0.0600	16.09	0.018
11/18/99	08:36:03	0.0650	16.09	0.009

11/18/99	08:36:04	0.0700	16.10	-2.177
11/18/99	08:36:04	0.0750	16.10	-1.359
11/18/99	08:36:04	0.0800	16.10	-1.359
11/18/99	08:36:05	0.0850	16.11	-1.273
11/18/99	08:36:05	0.0900	16.11	-1.110
11/18/99	08:36:05	0.0950	16.11	-0.920
11/18/99	08:36:06	0.1000	16.11	-0.724
11/18/99	08:36:06	0.1058	16.12	-0.531
11/18/99	08:36:06	0.1120	16.12	-0.362
11/18/99	08:36:07	0.1185	16.12	-0.215
11/18/99	08:36:07	0.1255	16.13	-0.092
11/18/99	08:36:07	0.1328	16.13	-0.009
11/18/99	08:36:08	0.1407	16.13	0.044
11/18/99	08:36:08	0.1490	16.13	0.072
11/18/99	08:36:09	0.1578	16.14	0.072
11/18/99	08:36:10	0.1672	16.14	0.058
11/18/99	08:36:10	0.1770	16.15	0.035
11/18/99	08:36:11	0.1875	16.15	0.007
11/18/99	08:36:11	0.1985	16.15	-0.014
11/18/99	08:36:12	0.2102	16.15	-0.028
11/18/99	08:36:13	0.2227	16.15	-0.028
11/18/99	08:36:14	0.2358	16.16	-0.023
11/18/99	08:36:14	0.2498	16.16	-0.014
11/18/99	08:36:15	0.2647	16.16	-0.005
11/18/99	08:36:16	0.2803	16.16	-0.005
11/18/99	08:36:17	0.2970	16.16	0.000
11/18/99	08:36:18	0.3147	16.16	-0.005
11/18/99	08:36:20	0.3333	16.17	-0.009
11/18/99	08:36:21	0.3532	16.17	0.000
11/18/99	08:36:22	0.3742	16.17	0.000
11/18/99	08:36:23	0.3963	16.18	0.000
11/18/99	08:36:25	0.4198	16.18	-0.005
11/18/99	08:36:26	0.4447	16.18	0.000
11/18/99	08:36:28	0.4697	16.18	-0.005
11/18/99	08:36:29	0.4963	16.18	0.000
11/18/99	08:36:31	0.5247	16.17	-0.005
11/18/99	08:36:33	0.5547	16.17	0.000
11/18/99	08:36:35	0.5863	16.17	0.000
11/18/99	08:36:37	0.6213	16.17	0.000
11/18/99	08:36:39	0.6580	16.17	0.000
11/18/99	08:36:41	0.6963	16.17	0.000
11/18/99	08:36:44	0.7380	16.17	0.000
11/18/99	08:36:46	0.7813	16.17	0.000
11/18/99	08:36:49	0.8280	16.16	0.000
11/18/99	08:36:52	0.8763	16.16	0.000
11/18/99	08:36:55	0.9280	16.16	0.005
11/18/99	08:36:58	0.9830	16.15	0.000
11/18/99	08:37:02	1.0413	16.15	0.000
11/18/99	08:37:06	1.1030	16.15	0.005
11/18/99	08:37:10	1.1680	16.15	0.005
11/18/99	08:37:14	1.2380	16.15	0.000
11/18/99	08:37:18	1.3113	16.14	0.000
11/18/99	08:37:23	1.3897	16.13	0.005
11/18/99	08:37:28	1.4730	16.13	0.005
11/18/99	08:37:33	1.5613	16.13	0.000
11/18/99	08:37:39	1.6547	16.12	0.000

11/18/99	08:37:45	1.7530	16.17	0.000
11/18/99	08:37:51	1.8580	16.16	0.000
11/18/99	08:37:58	1.9680	16.15	0.000
11/18/99	08:38:05	2.0847	16.14	0.000

IN_SITU INC. Troll

Report generated: 03/13/00 14:50:54
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC3-1D.BIN
:aMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: WC3-1D

Test defined on: 11/18/99 18:29:33
Test started on: 11/18/99 18:35:35
Test stopped on: 11/18/99 18:37:54
Test extracted on: 11/18/99 18:38:02

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 75

TOTAL DATA SAMPLES 75

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

Channel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 19.537 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/18/99	18:35:35	0.0000	17.14	0.000
11/18/99	18:35:35	0.0050	17.14	0.005
11/18/99	18:35:35	0.0100	17.16	0.000
11/18/99	18:35:35	0.0150	17.16	-0.018
11/18/99	18:35:36	0.0200	17.16	-0.005
11/18/99	18:35:36	0.0250	17.17	0.000
11/18/99	18:35:36	0.0300	17.17	-0.009
11/18/99	18:35:37	0.0350	17.18	-0.018
11/18/99	18:35:37	0.0400	17.18	-0.014
11/18/99	18:35:37	0.0450	17.18	-0.028
11/18/99	18:35:38	0.0500	17.18	-0.009
11/18/99	18:35:38	0.0550	17.19	0.000
11/18/99	18:35:38	0.0600	17.19	-0.018
11/18/99	18:35:38	0.0650	17.19	-0.046

11/18/99	18:35:39	0.0700	17.19	-1.008
11/18/99	18:35:39	0.0750	17.19	-2.745
11/18/99	18:35:39	0.0800	17.21	-2.226
11/18/99	18:35:40	0.0850	17.21	-1.968
18/99	18:35:40	0.0900	17.21	-1.836
11/18/99	18:35:40	0.0950	17.21	-1.723
11/18/99	18:35:41	0.1000	17.21	-1.642
11/18/99	18:35:41	0.1058	17.22	-1.557
11/18/99	18:35:41	0.1120	17.22	-1.488
11/18/99	18:35:42	0.1185	17.22	-1.421
11/18/99	18:35:42	0.1255	17.22	-1.347
11/18/99	18:35:42	0.1328	17.23	-1.276
11/18/99	18:35:43	0.1407	17.23	-1.204
11/18/99	18:35:43	0.1490	17.23	-1.135
11/18/99	18:35:44	0.1578	17.24	-1.068
11/18/99	18:35:45	0.1672	17.24	-1.001
11/18/99	18:35:45	0.1770	17.25	-0.927
11/18/99	18:35:46	0.1875	17.25	-0.865
11/18/99	18:35:46	0.1985	17.24	-0.687
11/18/99	18:35:47	0.2102	17.24	-0.634
11/18/99	18:35:48	0.2227	17.25	-0.584
11/18/99	18:35:49	0.2358	17.26	-0.535
11/18/99	18:35:49	0.2498	17.27	-0.489
11/18/99	18:35:50	0.2647	17.27	-0.443
11/18/99	18:35:51	0.2803	17.27	-0.399
11/18/99	18:35:52	0.2970	17.27	-0.362
11/18/99	18:35:53	0.3147	17.27	-0.328
18/99	18:35:55	0.3333	17.27	-0.295
11/18/99	18:35:56	0.3532	17.27	-0.263
11/18/99	18:35:57	0.3742	17.28	-0.231
11/18/99	18:35:58	0.3963	17.28	-0.205
11/18/99	18:36:00	0.4198	17.27	-0.187
11/18/99	18:36:01	0.4447	17.28	-0.168
11/18/99	18:36:03	0.4697	17.28	-0.150
11/18/99	18:36:04	0.4963	17.28	-0.131
11/18/99	18:36:06	0.5247	17.28	-0.118
11/18/99	18:36:08	0.5547	17.28	-0.108
11/18/99	18:36:10	0.5863	17.28	-0.097
11/18/99	18:36:12	0.6213	17.28	-0.088
11/18/99	18:36:14	0.6580	17.28	-0.083
11/18/99	18:36:16	0.6963	17.28	-0.074
11/18/99	18:36:19	0.7380	17.27	-0.065
11/18/99	18:36:21	0.7813	17.27	-0.065
11/18/99	18:36:24	0.8280	17.27	-0.060
11/18/99	18:36:27	0.8763	17.27	-0.060
11/18/99	18:36:30	0.9280	17.27	-0.055
11/18/99	18:36:33	0.9830	17.27	-0.055
11/18/99	18:36:37	1.0413	17.26	-0.051
11/18/99	18:36:41	1.1030	17.25	-0.046
11/18/99	18:36:45	1.1680	17.25	-0.046
18/99	18:36:49	1.2380	17.25	-0.042
11/18/99	18:36:53	1.3113	17.24	-0.037
11/18/99	18:36:58	1.3897	17.24	-0.037
11/18/99	18:37:03	1.4730	17.23	-0.037
11/18/99	18:37:08	1.5613	17.22	-0.037
11/18/99	18:37:14	1.6547	17.21	-0.037

11/18/99	18:37:20	1.7530	17.21	-0.037
11/18/99	18:37:26	1.8580	17.24	-0.037
11/18/99	18:37:33	1.9680	17.24	-0.032
11/18/99	18:37:40	2.0847	17.22	-0.032
'18/99	18:37:47	2.2097	17.21	-0.028

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Report generated: 03/13/00 14:51:10
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC3-1I.BIN
:aMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: WC3-1I

Test defined on: 11/18/99 18:21:41
Test started on: 11/18/99 18:22:01
Test stopped on: 11/18/99 18:26:00
Test extracted on: 11/18/99 18:26:10

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 85

TOTAL DATA SAMPLES 85

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

Channel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 18.493 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/18/99	18:22:01	0.0000	15.93	0.000
11/18/99	18:22:01	0.0050	15.93	0.000
11/18/99	18:22:01	0.0100	15.94	-0.005
11/18/99	18:22:01	0.0150	15.95	-0.005
11/18/99	18:22:02	0.0200	15.96	-0.009
11/18/99	18:22:02	0.0250	15.96	-0.005
11/18/99	18:22:02	0.0300	15.96	-0.005
11/18/99	18:22:03	0.0350	15.97	-0.009
18/99	18:22:03	0.0400	15.98	-0.009
18/99	18:22:03	0.0450	15.98	-0.014
11/18/99	18:22:04	0.0500	15.98	-0.014
11/18/99	18:22:04	0.0550	15.99	-0.014
11/18/99	18:22:04	0.0600	16.00	-0.014
11/18/99	18:22:04	0.0650	16.00	-2.021

11/18/99	18:22:05	0.0700	16.01	-3.345
11/18/99	18:22:05	0.0750	16.01	-1.921
11/18/99	18:22:05	0.0800	16.01	-2.002
11/18/99	18:22:06	0.0850	16.02	-2.002
11/18/99	18:22:06	0.0900	16.02	-1.931
11/18/99	18:22:06	0.0950	16.03	-1.926
11/18/99	18:22:07	0.1000	16.03	-1.894
11/18/99	18:22:07	0.1058	16.04	-1.871
11/18/99	18:22:07	0.1120	16.04	-1.848
11/18/99	18:22:08	0.1185	16.04	-1.827
11/18/99	18:22:08	0.1255	16.05	-1.808
11/18/99	18:22:08	0.1328	16.06	-1.785
11/18/99	18:22:09	0.1407	16.06	-1.762
11/18/99	18:22:09	0.1490	16.06	-1.744
11/18/99	18:22:10	0.1578	16.07	-1.718
11/18/99	18:22:11	0.1672	16.08	-1.695
11/18/99	18:22:11	0.1770	16.08	-1.668
11/18/99	18:22:12	0.1875	16.09	-1.645
11/18/99	18:22:12	0.1985	16.09	-1.619
11/18/99	18:22:13	0.2102	16.10	-1.582
11/18/99	18:22:14	0.2227	16.12	-1.550
11/18/99	18:22:15	0.2358	16.12	-1.522
11/18/99	18:22:15	0.2498	16.13	-1.492
11/18/99	18:22:16	0.2647	16.13	-1.460
11/18/99	18:22:17	0.2803	16.14	-1.428
11/18/99	18:22:18	0.2970	16.15	-1.398
11/18/99	18:22:19	0.3147	16.16	-1.361
11/18/99	18:22:21	0.3333	16.16	-1.324
11/18/99	18:22:22	0.3532	16.18	-1.294
11/18/99	18:22:23	0.3742	16.18	-1.253
11/18/99	18:22:24	0.3963	16.19	-1.216
11/18/99	18:22:26	0.4198	16.20	-1.176
11/18/99	18:22:27	0.4447	16.21	-1.139
11/18/99	18:22:29	0.4697	16.21	-1.098
11/18/99	18:22:30	0.4963	16.22	-1.063
11/18/99	18:22:32	0.5247	16.23	-1.026
11/18/99	18:22:34	0.5547	16.24	-0.983
11/18/99	18:22:36	0.5863	16.25	-0.941
11/18/99	18:22:38	0.6213	16.26	-0.900
11/18/99	18:22:40	0.6580	16.27	-0.860
11/18/99	18:22:42	0.6963	16.28	-0.823
11/18/99	18:22:45	0.7380	16.29	-0.782
11/18/99	18:22:47	0.7813	16.30	-0.743
11/18/99	18:22:50	0.8280	16.31	-0.701
11/18/99	18:22:53	0.8763	16.32	-0.667
11/18/99	18:22:56	0.9280	16.33	-0.625
11/18/99	18:22:59	0.9830	16.35	-0.588
11/18/99	18:23:03	1.0413	16.36	-0.554
11/18/99	18:23:07	1.1030	16.37	-0.521
11/18/99	18:23:11	1.1680	16.38	-0.484
11/18/99	18:23:15	1.2380	16.39	-0.454
11/18/99	18:23:19	1.3113	16.41	-0.422
11/18/99	18:23:24	1.3897	16.42	-0.390
11/18/99	18:23:29	1.4730	16.44	-0.367
11/18/99	18:23:34	1.5613	16.45	-0.341
11/18/99	18:23:40	1.6547	16.47	-0.314

11/18/99	18:23:46	1.7530	16.48	-0.295
11/18/99	18:23:52	1.8580	16.49	-0.272
11/18/99	18:23:59	1.9680	16.50	-0.258
11/18/99	18:24:06	2.0847	16.56	-0.247
'18/99	18:24:13	2.2097	16.59	-0.233
11/18/99	18:24:21	2.3413	16.59	-0.219
11/18/99	18:24:29	2.4813	16.61	-0.210
11/18/99	18:24:38	2.6297	16.61	-0.201
11/18/99	18:24:48	2.7863	16.62	-0.191
11/18/99	18:24:58	2.9530	16.64	-0.182
11/18/99	18:25:08	3.1297	16.66	-0.182
11/18/99	18:25:19	3.3163	16.66	-0.180
11/18/99	18:25:31	3.5147	16.68	-0.171
11/18/99	18:25:44	3.7247	16.69	-0.175
11/18/99	18:25:57	3.9463	16.70	-0.171

IN_SITU INC. Troll

Report generated: 03/13/00 14:51:25
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC3-2D.BIN
:aMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: WC3-2D

Test defined on: 11/18/99 19:09:33
Test started on: 11/18/99 19:15:45
Test stopped on: 11/18/99 19:24:16
Test extracted on: 11/18/99 19:24:25

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 98

TOTAL DATA SAMPLES 98

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

Channel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 16.968 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/18/99	19:15:45	0.0000	16.25	0.000
11/18/99	19:15:45	0.0050	16.26	-0.058
11/18/99	19:15:45	0.0100	16.26	-0.039
11/18/99	19:15:45	0.0150	16.27	-0.058
11/18/99	19:15:46	0.0200	16.27	-0.053
11/18/99	19:15:46	0.0250	16.28	-0.058
11/18/99	19:15:46	0.0300	16.28	-0.067
11/18/99	19:15:47	0.0350	16.29	-0.067
18/99	19:15:47	0.0400	16.30	-0.072
11/18/99	19:15:47	0.0450	16.30	-0.076
11/18/99	19:15:48	0.0500	16.30	-0.081
11/18/99	19:15:48	0.0550	16.31	-0.081
11/18/99	19:15:48	0.0600	16.32	-1.188
11/18/99	19:15:48	0.0650	16.32	-1.338

11/18/99	19:15:49	0.0700	16.33	-2.376
11/18/99	19:15:49	0.0750	16.33	-2.154
11/18/99	19:15:49	0.0800	16.33	-2.055
11/18/99	19:15:50	0.0850	16.34	-2.011
11/18/99	19:15:50	0.0900	16.35	-1.975
11/18/99	19:15:50	0.0950	16.35	-1.956
11/18/99	19:15:51	0.1000	16.36	-1.928
11/18/99	19:15:51	0.1058	16.36	-1.903
11/18/99	19:15:51	0.1120	16.36	-1.885
11/18/99	19:15:52	0.1185	16.37	-1.861
11/18/99	19:15:52	0.1255	16.38	-1.834
11/18/99	19:15:52	0.1328	16.38	-1.808
11/18/99	19:15:53	0.1407	16.38	-1.785
11/18/99	19:15:53	0.1490	16.39	-1.753
11/18/99	19:15:54	0.1578	16.39	-1.730
11/18/99	19:15:55	0.1672	16.40	-1.705
11/18/99	19:15:55	0.1770	16.41	-1.677
11/18/99	19:15:56	0.1875	16.41	-1.649
11/18/99	19:15:56	0.1985	16.41	-1.617
11/18/99	19:15:57	0.2102	16.42	-1.582
11/18/99	19:15:58	0.2227	16.44	-1.550
11/18/99	19:15:59	0.2358	16.44	-1.518
11/18/99	19:15:59	0.2498	16.45	-1.483
11/18/99	19:16:00	0.2647	16.45	-1.451
11/18/99	19:16:01	0.2803	16.46	-1.419
11/18/99	19:16:02	0.2970	16.47	-1.384
11/18/99	19:16:03	0.3147	16.48	-1.352
11/18/99	19:16:05	0.3333	16.49	-1.315
11/18/99	19:16:06	0.3532	16.49	-1.285
11/18/99	19:16:07	0.3742	16.50	-1.248
11/18/99	19:16:08	0.3963	16.50	-1.211
11/18/99	19:16:10	0.4198	16.52	-1.176
11/18/99	19:16:11	0.4447	16.53	-1.139
11/18/99	19:16:13	0.4697	16.53	-1.107
11/18/99	19:16:14	0.4963	16.54	-1.073
11/18/99	19:16:16	0.5247	16.55	-1.040
11/18/99	19:16:18	0.5547	16.56	-1.008
11/18/99	19:16:20	0.5863	16.56	-0.973
11/18/99	19:16:22	0.6213	16.58	-0.946
11/18/99	19:16:24	0.6580	16.58	-0.909
11/18/99	19:16:26	0.6963	16.59	-0.877
11/18/99	19:16:29	0.7380	16.60	-0.847
11/18/99	19:16:31	0.7813	16.61	-0.819
11/18/99	19:16:34	0.8280	16.62	-0.787
11/18/99	19:16:37	0.8763	16.63	-0.761
11/18/99	19:16:40	0.9280	16.64	-0.738
11/18/99	19:16:43	0.9830	16.66	-0.710
11/18/99	19:16:47	1.0413	16.66	-0.692
11/18/99	19:16:51	1.1030	16.68	-0.671
11/18/99	19:16:55	1.1680	16.68	-0.653
11/18/99	19:16:59	1.2380	16.70	-0.630
11/18/99	19:17:03	1.3113	16.71	-0.611
11/18/99	19:17:08	1.3897	16.73	-0.593
11/18/99	19:17:13	1.4730	16.73	-0.574
11/18/99	19:17:18	1.5613	16.75	-0.563
11/18/99	19:17:24	1.6547	16.76	-0.544

11/18/99	19:17:30	1.7530	16.78	-0.531
11/18/99	19:17:36	1.8580	16.79	-0.517
11/18/99	19:17:43	1.9680	16.80	-0.503
11/18/99	19:17:50	2.0847	16.81	-0.494
'18/99	19:17:57	2.2097	16.83	-0.482
11/18/99	19:18:05	2.3413	16.84	-0.468
11/18/99	19:18:13	2.4813	16.86	-0.459
11/18/99	19:18:22	2.6297	16.87	-0.450
11/18/99	19:18:32	2.7863	16.88	-0.441
11/18/99	19:18:42	2.9530	16.89	-0.436
11/18/99	19:18:52	3.1297	16.91	-0.431
11/18/99	19:19:03	3.3163	16.92	-0.422
11/18/99	19:19:15	3.5147	16.94	-0.422
11/18/99	19:19:28	3.7247	16.98	-0.418
11/18/99	19:19:41	3.9463	16.99	-0.413
11/18/99	19:19:55	4.1813	16.99	-0.408
11/18/99	19:20:10	4.4297	17.00	-0.406
11/18/99	19:20:26	4.6930	17.01	-0.406
11/18/99	19:20:43	4.9730	17.01	-0.406
11/18/99	19:21:01	5.2697	17.02	-0.401
11/18/99	19:21:19	5.5830	17.04	-0.401
11/18/99	19:21:39	5.9147	17.04	-0.401
11/18/99	19:22:00	6.2663	17.04	-0.397
11/18/99	19:22:23	6.6397	17.05	-0.397
11/18/99	19:22:47	7.0347	17.05	-0.401
11/18/99	19:23:12	7.4530	17.05	-0.397
11/18/99	19:23:38	7.8963	17.11	-0.397
'18/99	19:24:06	8.3663	17.10	-0.397

IN_SITU INC. Troll

Report generated: 03/13/00 14:51:50
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC3-2I.BIN
:aMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: WC3-2I

Test defined on: 11/18/99 18:49:27
Test started on: 11/18/99 18:50:01
Test stopped on: 11/18/99 19:08:46
Test extracted on: 11/18/99 19:09:51

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 112

TOTAL DATA SAMPLES 112

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

Channel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 17.690 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/18/99	18:50:01	0.0000	15.52	0.000
11/18/99	18:50:01	0.0050	15.52	0.005
11/18/99	18:50:01	0.0100	15.53	0.000
11/18/99	18:50:01	0.0150	15.54	0.000
11/18/99	18:50:02	0.0200	15.55	-0.014
11/18/99	18:50:02	0.0250	15.56	0.005
11/18/99	18:50:02	0.0300	15.56	-0.005
11/18/99	18:50:03	0.0350	15.57	-0.009
11/18/99	18:50:03	0.0400	15.58	-0.005
11/18/99	18:50:03	0.0450	15.58	-0.009
11/18/99	18:50:04	0.0500	15.59	-0.009
11/18/99	18:50:04	0.0550	15.60	-0.014
11/18/99	18:50:04	0.0600	15.60	-0.009
11/18/99	18:50:04	0.0650	15.61	-0.018

11/18/99	18:50:05	0.0700	15.61	-0.018
11/18/99	18:50:05	0.0750	15.62	-0.018
11/18/99	18:50:05	0.0800	15.62	-3.266
11/18/99	18:50:06	0.0850	15.62	-2.694
/18/99	18:50:06	0.0900	15.64	-1.984
11/18/99	18:50:06	0.0950	15.64	-2.078
11/18/99	18:50:07	0.1000	15.65	-2.069
11/18/99	18:50:07	0.1058	15.65	-2.060
11/18/99	18:50:07	0.1120	15.66	-2.046
11/18/99	18:50:08	0.1185	15.67	-2.039
11/18/99	18:50:08	0.1255	15.67	-2.030
11/18/99	18:50:08	0.1328	15.68	-2.021
11/18/99	18:50:09	0.1407	15.68	-2.011
11/18/99	18:50:09	0.1490	15.69	-1.998
11/18/99	18:50:10	0.1578	15.70	-1.988
11/18/99	18:50:11	0.1672	15.71	-1.984
11/18/99	18:50:11	0.1770	15.72	-1.975
11/18/99	18:50:12	0.1875	15.72	-1.965
11/18/99	18:50:12	0.1985	15.73	-1.961
11/18/99	18:50:13	0.2102	15.74	-1.949
11/18/99	18:50:14	0.2227	15.75	-1.935
11/18/99	18:50:15	0.2358	15.76	-1.931
11/18/99	18:50:15	0.2498	15.77	-1.921
11/18/99	18:50:16	0.2647	15.78	-1.912
11/18/99	18:50:17	0.2803	15.80	-1.898
11/18/99	18:50:18	0.2970	15.81	-1.889
11/18/99	18:50:19	0.3147	15.81	-1.880
'18/99	18:50:21	0.3333	15.82	-1.871
/18/99	18:50:22	0.3532	15.84	-1.859
11/18/99	18:50:23	0.3742	15.85	-1.845
11/18/99	18:50:24	0.3963	15.86	-1.836
11/18/99	18:50:26	0.4198	15.87	-1.827
11/18/99	18:50:27	0.4447	15.89	-1.808
11/18/99	18:50:29	0.4697	15.90	-1.799
11/18/99	18:50:30	0.4963	15.91	-1.785
11/18/99	18:50:32	0.5247	15.93	-1.774
11/18/99	18:50:34	0.5547	15.94	-1.760
11/18/99	18:50:36	0.5863	15.96	-1.742
11/18/99	18:50:38	0.6213	15.97	-1.732
11/18/99	18:50:40	0.6580	15.99	-1.718
11/18/99	18:50:42	0.6963	16.01	-1.695
11/18/99	18:50:45	0.7380	16.02	-1.684
11/18/99	18:50:47	0.7813	16.04	-1.665
11/18/99	18:50:50	0.8280	16.06	-1.642
11/18/99	18:50:53	0.8763	16.08	-1.624
11/18/99	18:50:56	0.9280	16.09	-1.601
11/18/99	18:50:59	0.9830	16.12	-1.585
11/18/99	18:51:03	1.0413	16.14	-1.557
11/18/99	18:51:07	1.1030	16.16	-1.543
11/18/99	18:51:11	1.1680	16.18	-1.515
'18/99	18:51:15	1.2380	16.20	-1.495
18/99	18:51:19	1.3113	16.23	-1.472
11/18/99	18:51:24	1.3897	16.25	-1.449
11/18/99	18:51:29	1.4730	16.27	-1.421
11/18/99	18:51:34	1.5613	16.30	-1.400
11/18/99	18:51:40	1.6547	16.33	-1.372

11/18/99	18:51:46	1.7530	16.35	-1.345
11/18/99	18:51:52	1.8580	16.38	-1.319
11/18/99	18:51:59	1.9680	16.41	-1.287
11/18/99	18:52:06	2.0847	16.44	-1.259
'18/99	18:52:13	2.2097	16.48	-1.234
11/18/99	18:52:21	2.3413	16.55	-1.206
11/18/99	18:52:29	2.4813	16.56	-1.179
11/18/99	18:52:38	2.6297	16.59	-1.153
11/18/99	18:52:48	2.7863	16.61	-1.121
11/18/99	18:52:58	2.9530	16.64	-1.093
11/18/99	18:53:08	3.1297	16.66	-1.066
11/18/99	18:53:19	3.3163	16.69	-1.036
11/18/99	18:53:31	3.5147	16.73	-1.008
11/18/99	18:53:44	3.7247	16.79	-0.985
11/18/99	18:53:57	3.9463	16.81	-0.955
11/18/99	18:54:11	4.1813	16.82	-0.932
11/18/99	18:54:26	4.4297	16.84	-0.909
11/18/99	18:54:42	4.6930	16.86	-0.881
11/18/99	18:54:59	4.9730	16.89	-0.860
11/18/99	18:55:17	5.2697	16.93	-0.842
11/18/99	18:55:35	5.5830	16.95	-0.819
11/18/99	18:55:55	5.9147	16.96	-0.796
11/18/99	18:56:16	6.2663	16.98	-0.780
11/18/99	18:56:39	6.6397	16.98	-0.761
11/18/99	18:57:03	7.0347	16.99	-0.743
11/18/99	18:57:28	7.4530	17.00	-0.734
11/18/99	18:57:54	7.8963	17.01	-0.715
'18/99	18:58:22	8.3663	17.01	-0.706
11/18/99	18:58:52	8.8647	17.02	-0.692
11/18/99	18:59:24	9.3913	17.02	-0.685
11/18/99	18:59:57	9.9497	17.02	-0.671
11/18/99	19:00:33	10.5413	17.06	-0.671
11/18/99	19:01:11	11.1680	17.06	-0.662
11/18/99	19:01:50	11.8313	17.05	-0.657
11/18/99	19:02:33	12.5347	17.04	-0.648
11/18/99	19:03:17	13.2797	17.04	-0.644
11/18/99	19:04:05	14.0697	17.04	-0.644
11/18/99	19:04:55	14.9063	17.08	-0.644
11/18/99	19:05:48	15.7913	17.06	-0.639
11/18/99	19:06:44	16.7297	17.05	-0.634
11/18/99	19:07:44	17.7230	17.04	-0.639
11/18/99	19:08:44	18.7230	17.08	-0.639

IN_SITU INC. Troll

Report generated: 03/13/00 14:52:12
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC5-1D.BIN
:aMgr Version 2.19.0.0

Serial number: 00012997
Firmware Version 7.08
Unit name:

Test name: WC5-1D

Test defined on: 11/15/99 11:52:14
Test started on: 11/15/99 14:38:28
Test stopped on: 11/15/99 14:44:09
Test extracted on: 11/15/99 14:45:30

Data gathered using Logarithmic testing
Maximum time between data points: 5.0000 Minutes.
Number of data samples: 91

TOTAL DATA SAMPLES 91

Channel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
'ensor Range: 30 PSI.
Specific gravity: 1.000
Mode: TOC
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 9.861 Feet H2O

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

Date	Time	ET (min)	Chan[2] Feet H2O	Chan[1] Celsius
11/15/99	14:38:28	0.0000	0.000	16.76
11/15/99	14:38:28	0.0050	-1.183	16.77
11/15/99	14:38:28	0.0100	-0.639	16.77
11/15/99	14:38:28	0.0150	-0.943	16.77
11/15/99	14:38:29	0.0200	-0.904	16.78
11/15/99	14:38:29	0.0250	-0.927	16.78
11/15/99	14:38:29	0.0300	-1.013	16.78
11/15/99	14:38:30	0.0350	-0.985	16.78
11/15/99	14:38:30	0.0400	-1.022	16.79
11/15/99	14:38:30	0.0450	-1.038	16.80
11/15/99	14:38:31	0.0500	-1.070	16.80
11/15/99	14:38:31	0.0550	-1.098	16.80
11/15/99	14:38:31	0.0600	-1.119	16.80
11/15/99	14:38:31	0.0650	-1.142	16.81

11/15/99	14:38:32	0.0700	-1.165	16.81
11/15/99	14:38:32	0.0750	-1.183	16.82
11/15/99	14:38:32	0.0800	-1.206	16.82
11/15/99	14:38:33	0.0850	-1.227	16.82
[illegible]15/99	14:38:33	0.0900	-1.250	16.82
11/15/99	14:38:33	0.0950	-1.273	16.83
11/15/99	14:38:34	0.1000	-1.292	16.83
11/15/99	14:38:34	0.1058	-1.308	16.83
11/15/99	14:38:34	0.1120	-1.322	16.83
11/15/99	14:38:35	0.1185	-1.345	16.83
11/15/99	14:38:35	0.1255	-1.368	16.84
11/15/99	14:38:35	0.1328	-1.386	16.84
11/15/99	14:38:36	0.1407	-1.412	16.84
11/15/99	14:38:36	0.1490	-1.435	16.85
11/15/99	14:38:37	0.1578	-1.462	16.86
11/15/99	14:38:38	0.1672	-1.483	16.85
11/15/99	14:38:38	0.1770	-1.515	16.86
11/15/99	14:38:39	0.1875	-1.543	16.86
11/15/99	14:38:39	0.1985	-1.573	16.86
11/15/99	14:38:40	0.2102	-1.587	16.86
11/15/99	14:38:41	0.2227	-1.617	16.86
11/15/99	14:38:42	0.2358	-1.645	16.87
11/15/99	14:38:42	0.2498	-1.682	16.87
11/15/99	14:38:43	0.2647	-1.712	16.88
11/15/99	14:38:44	0.2803	-1.753	16.88
11/15/99	14:38:45	0.2970	-1.785	16.88
11/15/99	14:38:46	0.3147	-1.815	16.88
[illegible]15/99	14:38:48	0.3333	-1.857	16.88
[illegible]15/99	14:38:49	0.3532	-1.889	16.88
11/15/99	14:38:50	0.3742	-1.928	16.88
11/15/99	14:38:51	0.3963	-1.961	16.89
11/15/99	14:38:53	0.4198	-2.000	16.89
11/15/99	14:38:54	0.4447	-2.037	16.89
11/15/99	14:38:56	0.4697	-2.074	16.90
11/15/99	14:38:57	0.4963	-2.108	16.90
11/15/99	14:38:59	0.5247	-2.141	16.90
11/15/99	14:39:01	0.5547	-2.173	16.90
11/15/99	14:39:03	0.5863	-2.207	16.90
11/15/99	14:39:05	0.6213	-2.240	16.90
11/15/99	14:39:07	0.6580	-2.272	16.90
11/15/99	14:39:09	0.6963	-2.302	16.90
11/15/99	14:39:12	0.7380	-2.330	16.90
11/15/99	14:39:14	0.7813	-2.362	16.90
11/15/99	14:39:17	0.8280	-2.383	16.90
11/15/99	14:39:20	0.8763	-2.410	16.91
11/15/99	14:39:23	0.9280	-2.429	16.90
11/15/99	14:39:26	0.9830	-2.457	16.90
11/15/99	14:39:30	1.0413	-2.480	16.90
11/15/99	14:39:34	1.1030	-2.500	16.90
11/15/99	14:39:38	1.1680	-2.510	16.90
[illegible]15/99	14:39:42	1.2380	-2.533	16.90
[illegible]15/99	14:39:46	1.3113	-2.542	16.91
11/15/99	14:39:51	1.3897	-2.560	16.90
11/15/99	14:39:56	1.4730	-2.574	16.90
11/15/99	14:40:01	1.5613	-2.590	16.90
11/15/99	14:40:07	1.6547	-2.590	16.90

11/15/99	14:40:13	1.7530	-2.595	16.90
11/15/99	14:40:19	1.8580	-2.604	16.90
11/15/99	14:40:26	1.9680	-2.613	16.89
11/15/99	14:40:33	2.0847	-2.618	16.89
'15/99	14:40:40	2.2097	-2.623	16.88
11/15/99	14:40:48	2.3413	-2.736	16.88
11/15/99	14:40:56	2.4813	-2.618	16.88
11/15/99	14:41:05	2.6297	-2.650	16.88
11/15/99	14:41:15	2.7863	-2.641	16.87
11/15/99	14:41:25	2.9530	-2.632	16.86
11/15/99	14:41:35	3.1297	-2.641	16.86
11/15/99	14:41:46	3.3163	-2.637	16.86
11/15/99	14:41:58	3.5147	-2.637	16.86
11/15/99	14:42:11	3.7247	-2.637	16.85
11/15/99	14:42:24	3.9463	-2.637	16.85
11/15/99	14:42:38	4.1813	-2.641	16.84
11/15/99	14:42:53	4.4297	-2.637	16.83
11/15/99	14:43:09	4.6930	-2.637	16.83
11/15/99	14:43:26	4.9730	-2.637	16.83
11/15/99	14:43:44	5.2697	-2.641	16.82
11/15/99	14:44:02	5.5830	-2.641	16.82

IN_SITU INC. Troll

Report generated: 03/13/00 14:52:32
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC5-1I.BIN
taMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: WC2-5I

Test defined on: 11/18/99 10:40:08
Test started on: 11/18/99 10:40:31
Test stopped on: 11/18/99 10:41:56
Test extracted on: 11/18/99 10:42:07

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 67

TOTAL DATA SAMPLES 67

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

Channel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 14.899 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/18/99	10:40:31	0.0000	17.45	0.000
11/18/99	10:40:31	0.0050	17.45	0.035
11/18/99	10:40:31	0.0100	17.46	0.030
11/18/99	10:40:31	0.0150	17.46	0.044
11/18/99	10:40:32	0.0200	17.47	0.044
11/18/99	10:40:32	0.0250	17.47	0.039
11/18/99	10:40:32	0.0300	17.47	0.025
11/18/99	10:40:33	0.0350	17.47	0.030
11/18/99	10:40:33	0.0400	17.48	0.030
11/18/99	10:40:33	0.0450	17.48	0.035
11/18/99	10:40:34	0.0500	17.48	0.035
11/18/99	10:40:34	0.0550	17.48	0.035
11/18/99	10:40:34	0.0600	17.49	0.035
11/18/99	10:40:34	0.0650	17.49	0.035

11/18/99	10:40:35	0.0700	17.49	0.030
11/18/99	10:40:35	0.0750	17.50	-2.590
11/18/99	10:40:35	0.0800	17.50	-2.385
11/18/99	10:40:36	0.0850	17.50	-1.808
[illegible]/18/99	10:40:36	0.0900	17.50	-1.329
[illegible]/18/99	10:40:36	0.0950	17.50	-1.112
11/18/99	10:40:37	0.1000	17.50	-0.877
11/18/99	10:40:37	0.1058	17.50	-0.697
11/18/99	10:40:37	0.1120	17.51	-0.574
11/18/99	10:40:38	0.1185	17.51	-0.471
11/18/99	10:40:38	0.1255	17.51	-0.394
11/18/99	10:40:38	0.1328	17.52	-0.318
11/18/99	10:40:39	0.1407	17.52	-0.268
11/18/99	10:40:39	0.1490	17.52	-0.226
11/18/99	10:40:40	0.1578	17.52	-0.173
11/18/99	10:40:41	0.1672	17.52	-0.131
11/18/99	10:40:41	0.1770	17.53	-0.101
11/18/99	10:40:42	0.1875	17.53	-0.078
11/18/99	10:40:42	0.1985	17.53	-0.051
11/18/99	10:40:43	0.2102	17.53	-0.032
11/18/99	10:40:44	0.2227	17.53	-0.023
11/18/99	10:40:45	0.2358	17.53	-0.014
11/18/99	10:40:45	0.2498	17.53	-0.009
11/18/99	10:40:46	0.2647	17.53	-0.005
11/18/99	10:40:47	0.2803	17.54	0.000
11/18/99	10:40:48	0.2970	17.53	0.005
11/18/99	10:40:49	0.3147	17.54	0.002
[illegible]/18/99	10:40:51	0.3333	17.53	0.007
[illegible]/18/99	10:40:52	0.3532	17.53	0.012
11/18/99	10:40:53	0.3742	17.53	0.012
11/18/99	10:40:54	0.3963	17.53	0.012
11/18/99	10:40:56	0.4198	17.52	0.016
11/18/99	10:40:57	0.4447	17.52	0.012
11/18/99	10:40:59	0.4697	17.52	0.016
11/18/99	10:41:00	0.4963	17.52	0.016
11/18/99	10:41:02	0.5247	17.52	0.016
11/18/99	10:41:04	0.5547	17.51	0.016
11/18/99	10:41:06	0.5863	17.51	0.021
11/18/99	10:41:08	0.6213	17.50	0.021
11/18/99	10:41:10	0.6580	17.50	0.021
11/18/99	10:41:12	0.6963	17.49	0.025
11/18/99	10:41:15	0.7380	17.48	0.025
11/18/99	10:41:17	0.7813	17.48	0.025
11/18/99	10:41:20	0.8280	17.47	0.025
11/18/99	10:41:23	0.8763	17.46	0.025
11/18/99	10:41:26	0.9280	17.48	0.025
11/18/99	10:41:29	0.9830	17.50	0.025
11/18/99	10:41:33	1.0413	17.51	0.021
11/18/99	10:41:37	1.1030	17.49	0.025
11/18/99	10:41:41	1.1680	17.47	0.025
[illegible]/18/99	10:41:45	1.2380	17.45	0.030
[illegible]/18/99	10:41:49	1.3113	17.44	0.030
11/18/99	10:41:54	1.3897	17.43	0.030

IN_SITU INC. Troll

Report generated: 03/13/00 14:52:55
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC5-1I.BIN
:aMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: WC2-5I

Test defined on: 11/18/99 10:40:08
Test started on: 11/18/99 10:40:31
Test stopped on: 11/18/99 10:41:56
Test extracted on: 11/18/99 10:42:07

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 67

TOTAL DATA SAMPLES 67

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

..annel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 14.899 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/18/99	10:40:31	0.0000	17.45	0.000
11/18/99	10:40:31	0.0050	17.45	0.035
11/18/99	10:40:31	0.0100	17.46	0.030
11/18/99	10:40:31	0.0150	17.46	0.044
11/18/99	10:40:32	0.0200	17.47	0.044
11/18/99	10:40:32	0.0250	17.47	0.039
11/18/99	10:40:32	0.0300	17.47	0.025
11/18/99	10:40:33	0.0350	17.47	0.030
11/18/99	10:40:33	0.0400	17.48	0.030
11/18/99	10:40:33	0.0450	17.48	0.035
11/18/99	10:40:34	0.0500	17.48	0.035
11/18/99	10:40:34	0.0550	17.48	0.035
11/18/99	10:40:34	0.0600	17.49	0.035
11/18/99	10:40:34	0.0650	17.49	0.035

11/18/99	10:40:35	0.0700	17.49	0.030
11/18/99	10:40:35	0.0750	17.50	-2.590
11/18/99	10:40:35	0.0800	17.50	-2.385
11/18/99	10:40:36	0.0850	17.50	-1.808
[illegible]/18/99	10:40:36	0.0900	17.50	-1.329
[illegible]/18/99	10:40:36	0.0950	17.50	-1.112
11/18/99	10:40:37	0.1000	17.50	-0.877
11/18/99	10:40:37	0.1058	17.50	-0.697
11/18/99	10:40:37	0.1120	17.51	-0.574
11/18/99	10:40:38	0.1185	17.51	-0.471
11/18/99	10:40:38	0.1255	17.51	-0.394
11/18/99	10:40:38	0.1328	17.52	-0.318
11/18/99	10:40:39	0.1407	17.52	-0.268
11/18/99	10:40:39	0.1490	17.52	-0.226
11/18/99	10:40:40	0.1578	17.52	-0.173
11/18/99	10:40:41	0.1672	17.52	-0.131
11/18/99	10:40:41	0.1770	17.53	-0.101
11/18/99	10:40:42	0.1875	17.53	-0.078
11/18/99	10:40:42	0.1985	17.53	-0.051
11/18/99	10:40:43	0.2102	17.53	-0.032
11/18/99	10:40:44	0.2227	17.53	-0.023
11/18/99	10:40:45	0.2358	17.53	-0.014
11/18/99	10:40:45	0.2498	17.53	-0.009
11/18/99	10:40:46	0.2647	17.53	-0.005
11/18/99	10:40:47	0.2803	17.54	0.000
11/18/99	10:40:48	0.2970	17.53	0.005
11/18/99	10:40:49	0.3147	17.54	0.002
[illegible]/18/99	10:40:51	0.3333	17.53	0.007
[illegible]/18/99	10:40:52	0.3532	17.53	0.012
11/18/99	10:40:53	0.3742	17.53	0.012
11/18/99	10:40:54	0.3963	17.53	0.012
11/18/99	10:40:56	0.4198	17.52	0.016
11/18/99	10:40:57	0.4447	17.52	0.012
11/18/99	10:40:59	0.4697	17.52	0.016
11/18/99	10:41:00	0.4963	17.52	0.016
11/18/99	10:41:02	0.5247	17.52	0.016
11/18/99	10:41:04	0.5547	17.51	0.016
11/18/99	10:41:06	0.5863	17.51	0.021
11/18/99	10:41:08	0.6213	17.50	0.021
11/18/99	10:41:10	0.6580	17.50	0.021
11/18/99	10:41:12	0.6963	17.49	0.025
11/18/99	10:41:15	0.7380	17.48	0.025
11/18/99	10:41:17	0.7813	17.48	0.025
11/18/99	10:41:20	0.8280	17.47	0.025
11/18/99	10:41:23	0.8763	17.46	0.025
11/18/99	10:41:26	0.9280	17.48	0.025
11/18/99	10:41:29	0.9830	17.50	0.025
11/18/99	10:41:33	1.0413	17.51	0.021
11/18/99	10:41:37	1.1030	17.49	0.025
11/18/99	10:41:41	1.1680	17.47	0.025
[illegible]/18/99	10:41:45	1.2380	17.45	0.030
[illegible]/18/99	10:41:49	1.3113	17.44	0.030
11/18/99	10:41:54	1.3897	17.43	0.030

IN_SITU INC. Troll

Report generated: 03/13/00 14:53:17
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC5-1S.BIN
:aMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: WC5-1S

Test defined on: 11/19/99 09:15:38
Test started on: 11/19/99 09:16:51
Test stopped on: 11/19/99 09:20:11
Test extracted on: 11/19/99 09:20:20

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 82

TOTAL DATA SAMPLES 82

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

Channel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 8.530 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/19/99	09:16:51	0.0000	16.47	0.000
11/19/99	09:16:51	0.0050	16.48	-0.007
11/19/99	09:16:51	0.0100	16.48	-0.005
11/19/99	09:16:51	0.0150	16.49	-0.009
11/19/99	09:16:52	0.0200	16.50	-0.012
11/19/99	09:16:52	0.0250	16.50	-0.009
11/19/99	09:16:52	0.0300	16.50	-0.005
11/19/99	09:16:53	0.0350	16.51	-0.009
11/19/99	09:16:53	0.0400	16.52	-0.009
11/19/99	09:16:53	0.0450	16.52	-0.009
11/19/99	09:16:54	0.0500	16.52	-0.005
11/19/99	09:16:54	0.0550	16.53	-0.009
11/19/99	09:16:54	0.0600	16.53	-0.005
11/19/99	09:16:54	0.0650	16.53	-0.009

11/19/99	09:16:55	0.0700	16.54	-0.009
11/19/99	09:16:55	0.0750	16.54	-0.009
11/19/99	09:16:55	0.0800	16.55	-0.708
11/19/99	09:16:56	0.0850	16.55	-0.874
19/99	09:16:56	0.0900	16.55	-0.671
11/19/99	09:16:56	0.0950	16.55	-0.374
11/19/99	09:16:57	0.1000	16.56	-0.185
11/19/99	09:16:57	0.1058	16.56	-0.085
11/19/99	09:16:57	0.1120	16.56	-0.048
11/19/99	09:16:58	0.1185	16.56	-0.039
11/19/99	09:16:58	0.1255	16.57	-0.039
11/19/99	09:16:58	0.1328	16.58	-0.039
11/19/99	09:16:59	0.1407	16.58	-0.035
11/19/99	09:16:59	0.1490	16.58	-0.035
11/19/99	09:17:00	0.1578	16.58	-0.032
11/19/99	09:17:01	0.1672	16.59	-0.032
11/19/99	09:17:01	0.1770	16.59	-0.028
11/19/99	09:17:02	0.1875	16.59	-0.028
11/19/99	09:17:02	0.1985	16.59	-0.028
11/19/99	09:17:03	0.2102	16.59	-0.032
11/19/99	09:17:04	0.2227	16.60	-0.032
11/19/99	09:17:05	0.2358	16.61	-0.032
11/19/99	09:17:05	0.2498	16.62	-0.028
11/19/99	09:17:06	0.2647	16.62	-0.032
11/19/99	09:17:07	0.2803	16.62	-0.028
11/19/99	09:17:08	0.2970	16.63	-0.028
11/19/99	09:17:09	0.3147	16.63	-0.032
19/99	09:17:11	0.3333	16.64	-0.028
11/19/99	09:17:12	0.3532	16.64	-0.032
11/19/99	09:17:13	0.3742	16.64	-0.028
11/19/99	09:17:14	0.3963	16.65	-0.028
11/19/99	09:17:16	0.4198	16.66	-0.028
11/19/99	09:17:17	0.4447	16.66	-0.028
11/19/99	09:17:19	0.4697	16.66	-0.032
11/19/99	09:17:20	0.4963	16.66	-0.028
11/19/99	09:17:22	0.5247	16.67	-0.028
11/19/99	09:17:24	0.5547	16.67	-0.032
11/19/99	09:17:26	0.5863	16.67	-0.032
11/19/99	09:17:28	0.6213	16.67	-0.032
11/19/99	09:17:30	0.6580	16.68	-0.032
11/19/99	09:17:32	0.6963	16.68	-0.032
11/19/99	09:17:35	0.7380	16.68	-0.032
11/19/99	09:17:37	0.7813	16.69	-0.032
11/19/99	09:17:40	0.8280	16.70	-0.032
11/19/99	09:17:43	0.8763	16.70	-0.032
11/19/99	09:17:46	0.9280	16.70	-0.032
11/19/99	09:17:49	0.9830	16.71	-0.037
11/19/99	09:17:53	1.0413	16.72	-0.032
11/19/99	09:17:57	1.1030	16.72	-0.032
11/19/99	09:18:01	1.1680	16.72	-0.032
19/99	09:18:05	1.2380	16.73	-0.037
11/19/99	09:18:09	1.3113	16.73	-0.032
11/19/99	09:18:14	1.3897	16.74	-0.032
11/19/99	09:18:19	1.4730	16.75	-0.037
11/19/99	09:18:24	1.5613	16.75	-0.032
11/19/99	09:18:30	1.6547	16.76	-0.037

11/19/99	09:18:36	1.7530	16.79	-0.042
11/19/99	09:18:42	1.8580	16.84	-0.042
11/19/99	09:18:49	1.9680	16.82	-0.042
11/19/99	09:18:56	2.0847	16.82	-0.037
'19/99	09:19:03	2.2097	16.83	-0.042
11/19/99	09:19:11	2.3413	16.84	-0.042
11/19/99	09:19:19	2.4813	16.84	-0.042
11/19/99	09:19:28	2.6297	16.84	-0.046
11/19/99	09:19:38	2.7863	16.85	-0.042
11/19/99	09:19:48	2.9530	16.86	-0.042
11/19/99	09:19:58	3.1297	16.86	-0.042
11/19/99	09:20:09	3.3163	16.87	-0.042

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Report generated: 03/13/00 15:10:47
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC5-2S.BIN
:aMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: WC5-2S

Test defined on: 11/19/99 08:57:53
Test started on: 11/19/99 08:58:20
Test stopped on: 11/19/99 08:59:40
Test extracted on: 11/19/99 09:00:09

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 66

TOTAL DATA SAMPLES 66

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

Channel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 5.554 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/19/99	08:58:20	0.0000	17.25	0.000
11/19/99	08:58:20	0.0050	17.27	-0.005
11/19/99	08:58:20	0.0100	17.27	-0.005
11/19/99	08:58:20	0.0150	17.27	-0.005
11/19/99	08:58:21	0.0200	17.28	0.000
11/19/99	08:58:21	0.0250	17.28	-0.005
11/19/99	08:58:21	0.0300	17.28	-0.005
11/19/99	08:58:22	0.0350	17.29	-0.005
11/19/99	08:58:22	0.0400	17.29	-0.005
11/19/99	08:58:22	0.0450	17.30	-0.005
11/19/99	08:58:23	0.0500	17.30	-0.005
11/19/99	08:58:23	0.0550	17.30	-0.014
11/19/99	08:58:23	0.0600	17.30	-0.009
11/19/99	08:58:23	0.0650	17.31	-0.009

11/19/99	08:58:24	0.0700	17.31	-1.679
11/19/99	08:58:24	0.0750	17.31	-1.518
11/19/99	08:58:24	0.0800	17.32	-0.840
11/19/99	08:58:25	0.0850	17.32	-0.593
11/19/99	08:58:25	0.0900	17.32	-0.408
11/19/99	08:58:25	0.0950	17.32	-0.258
11/19/99	08:58:26	0.1000	17.33	-0.173
11/19/99	08:58:26	0.1058	17.33	-0.111
11/19/99	08:58:26	0.1120	17.33	-0.074
11/19/99	08:58:27	0.1185	17.33	-0.046
11/19/99	08:58:27	0.1255	17.33	-0.037
11/19/99	08:58:27	0.1328	17.33	-0.023
11/19/99	08:58:28	0.1407	17.34	-0.018
11/19/99	08:58:28	0.1490	17.34	-0.014
11/19/99	08:58:29	0.1578	17.34	-0.014
11/19/99	08:58:30	0.1672	17.34	-0.014
11/19/99	08:58:30	0.1770	17.35	-0.014
11/19/99	08:58:31	0.1875	17.35	-0.012
11/19/99	08:58:31	0.1985	17.34	-0.018
11/19/99	08:58:32	0.2102	17.34	-0.012
11/19/99	08:58:33	0.2227	17.35	-0.018
11/19/99	08:58:34	0.2358	17.36	-0.012
11/19/99	08:58:34	0.2498	17.36	-0.016
11/19/99	08:58:35	0.2647	17.36	-0.016
11/19/99	08:58:36	0.2803	17.36	-0.016
11/19/99	08:58:37	0.2970	17.36	-0.016
11/19/99	08:58:38	0.3147	17.37	-0.012
11/19/99	08:58:40	0.3333	17.37	-0.012
11/19/99	08:58:41	0.3532	17.37	-0.016
11/19/99	08:58:42	0.3742	17.37	-0.016
11/19/99	08:58:43	0.3963	17.38	-0.016
11/19/99	08:58:45	0.4198	17.38	-0.016
11/19/99	08:58:46	0.4447	17.38	-0.016
11/19/99	08:58:48	0.4697	17.38	-0.012
11/19/99	08:58:49	0.4963	17.38	-0.023
11/19/99	08:58:51	0.5247	17.38	-0.012
11/19/99	08:58:53	0.5547	17.38	-0.016
11/19/99	08:58:55	0.5863	17.38	-0.021
11/19/99	08:58:57	0.6213	17.38	-0.021
11/19/99	08:58:59	0.6580	17.38	-0.016
11/19/99	08:59:01	0.6963	17.38	-0.016
11/19/99	08:59:04	0.7380	17.37	-0.018
11/19/99	08:59:06	0.7813	17.38	-0.016
11/19/99	08:59:09	0.8280	17.37	-0.016
11/19/99	08:59:12	0.8763	17.37	-0.016
11/19/99	08:59:15	0.9280	17.37	-0.016
11/19/99	08:59:18	0.9830	17.37	-0.016
11/19/99	08:59:22	1.0413	17.37	-0.016
11/19/99	08:59:26	1.1030	17.36	-0.016
11/19/99	08:59:30	1.1680	17.36	-0.016
11/19/99	08:59:34	1.2380	17.36	-0.016
11/19/99	08:59:38	1.3113	17.36	-0.016

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Report generated: 03/13/00 15:11:20
Report from file: I:\PROJECTS\K9716--1\HYDRO\SLUGTE~1\WC5-3S.BIN
:aMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: WC5-3S

Test defined on: 11/17/99 14:55:06
Test started on: 11/17/99 14:56:57
Test stopped on: 11/17/99 14:58:51
Test extracted on: 11/17/99 15:00:14

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 72

TOTAL DATA SAMPLES 72

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

..annel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 4.417 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/17/99	14:56:57	0.0000	17.28	0.000
11/17/99	14:56:57	0.0050	17.28	0.378
11/17/99	14:56:57	0.0100	17.29	0.540
11/17/99	14:56:57	0.0150	17.29	0.618
11/17/99	14:56:58	0.0200	17.30	0.657
11/17/99	14:56:58	0.0250	17.30	0.676
11/17/99	14:56:58	0.0300	17.31	0.685
11/17/99	14:56:59	0.0350	17.31	0.694
17/99	14:56:59	0.0400	17.32	0.699
17/99	14:56:59	0.0450	17.32	0.704
11/17/99	14:57:00	0.0500	17.32	0.708
11/17/99	14:57:00	0.0550	17.32	0.708
11/17/99	14:57:00	0.0600	17.33	0.704
11/17/99	14:57:00	0.0650	17.33	0.713

11/17/99	14:57:01	0.0700	17.33	0.708
11/17/99	14:57:01	0.0750	17.33	0.717
11/17/99	14:57:01	0.0800	17.34	0.708
11/17/99	14:57:02	0.0850	17.34	0.713
'17/99	14:57:02	0.0900	17.34	0.717
11/17/99	14:57:02	0.0950	17.35	0.713
11/17/99	14:57:03	0.1000	17.35	0.715
11/17/99	14:57:03	0.1058	17.36	0.713
11/17/99	14:57:03	0.1120	17.36	0.713
11/17/99	14:57:04	0.1185	17.36	0.713
11/17/99	14:57:04	0.1255	17.36	0.713
11/17/99	14:57:04	0.1328	17.36	0.713
11/17/99	14:57:05	0.1407	17.37	0.710
11/17/99	14:57:05	0.1490	17.38	0.710
11/17/99	14:57:06	0.1578	17.38	0.710
11/17/99	14:57:07	0.1672	17.38	0.710
11/17/99	14:57:07	0.1770	17.39	0.715
11/17/99	14:57:08	0.1875	17.39	0.710
11/17/99	14:57:08	0.1985	17.38	0.708
11/17/99	14:57:09	0.2102	17.38	0.710
11/17/99	14:57:10	0.2227	17.39	0.710
11/17/99	14:57:11	0.2358	17.40	0.706
11/17/99	14:57:11	0.2498	17.41	0.710
11/17/99	14:57:12	0.2647	17.41	0.710
11/17/99	14:57:13	0.2803	17.41	0.706
11/17/99	14:57:14	0.2970	17.42	0.706
11/17/99	14:57:15	0.3147	17.42	0.706
'17/99	14:57:17	0.3333	17.42	0.706
11/17/99	14:57:18	0.3532	17.42	0.706
11/17/99	14:57:19	0.3742	17.43	0.701
11/17/99	14:57:20	0.3963	17.44	0.701
11/17/99	14:57:22	0.4198	17.44	0.706
11/17/99	14:57:23	0.4447	17.44	0.706
11/17/99	14:57:25	0.4697	17.44	0.706
11/17/99	14:57:26	0.4963	17.44	0.701
11/17/99	14:57:28	0.5247	17.44	0.706
11/17/99	14:57:30	0.5547	17.45	0.706
11/17/99	14:57:32	0.5863	17.45	0.706
11/17/99	14:57:34	0.6213	17.45	0.701
11/17/99	14:57:36	0.6580	17.45	0.706
11/17/99	14:57:38	0.6963	17.46	0.706
11/17/99	14:57:41	0.7380	17.46	0.701
11/17/99	14:57:43	0.7813	17.47	0.701
11/17/99	14:57:46	0.8280	17.47	0.701
11/17/99	14:57:49	0.8763	17.47	0.697
11/17/99	14:57:52	0.9280	17.47	0.697
11/17/99	14:57:55	0.9830	17.48	0.697
11/17/99	14:57:59	1.0413	17.48	0.701
11/17/99	14:58:03	1.1030	17.48	0.701
11/17/99	14:58:07	1.1680	17.48	0.715
'17/99	14:58:11	1.2380	17.48	0.701
11/17/99	14:58:15	1.3113	17.49	0.701
11/17/99	14:58:20	1.3897	17.50	0.697
11/17/99	14:58:25	1.4730	17.50	0.697
11/17/99	14:58:30	1.5613	17.50	0.697
11/17/99	14:58:36	1.6547	17.50	0.697

11/17/99	14:58:42	1.7530	17.51	0.697
11/17/99	14:58:48	1.8580	17.51	0.697

IN_SITU INC. Troll

Report generated: 03/13/00 15:11:37
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC6-1I1.BIN
:aMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: WC6-1I

Test defined on: 11/17/99 14:58:31
Test started on: 11/17/99 14:31:36
Test stopped on: 11/17/99 14:33:25
Test extracted on: 11/17/99 14:34:45

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 71

TOTAL DATA SAMPLES 71

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

Channel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 5.995 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/17/99	14:31:36	0.0000	19.37	0.000
11/17/99	14:31:36	0.0050	19.37	0.311
11/17/99	14:31:36	0.0100	19.39	0.468
11/17/99	14:31:36	0.0150	19.38	0.554
11/17/99	14:31:37	0.0200	19.39	0.591
11/17/99	14:31:37	0.0250	19.39	0.600
11/17/99	14:31:37	0.0300	19.39	0.600
11/17/99	14:31:38	0.0350	19.40	0.600
17/99	14:31:38	0.0400	19.40	0.600
17/99	14:31:38	0.0450	19.40	0.600
11/17/99	14:31:39	0.0500	19.40	0.600
11/17/99	14:31:39	0.0550	19.41	0.600
11/17/99	14:31:39	0.0600	19.41	0.600
11/17/99	14:31:39	0.0650	19.42	0.595

11/17/99	14:31:40	0.0700	19.42	0.595
11/17/99	14:31:40	0.0750	19.42	0.600
11/17/99	14:31:40	0.0800	19.42	0.600
11/17/99	14:31:41	0.0850	19.42	0.600
11/17/99	14:31:41	0.0900	19.43	0.595
11/17/99	14:31:41	0.0950	19.43	0.595
11/17/99	14:31:42	0.1000	19.43	0.595
11/17/99	14:31:42	0.1058	19.43	0.595
11/17/99	14:31:42	0.1120	19.43	0.595
11/17/99	14:31:43	0.1185	19.43	0.595
11/17/99	14:31:43	0.1255	19.44	0.595
11/17/99	14:31:43	0.1328	19.45	0.591
11/17/99	14:31:44	0.1407	19.45	0.591
11/17/99	14:31:44	0.1490	19.45	0.595
11/17/99	14:31:45	0.1578	19.45	0.595
11/17/99	14:31:46	0.1672	19.46	0.595
11/17/99	14:31:46	0.1770	19.46	0.595
11/17/99	14:31:47	0.1875	19.46	0.591
11/17/99	14:31:47	0.1985	19.46	0.586
11/17/99	14:31:48	0.2102	19.46	0.586
11/17/99	14:31:49	0.2227	19.47	0.586
11/17/99	14:31:50	0.2358	19.48	0.591
11/17/99	14:31:50	0.2498	19.48	0.586
11/17/99	14:31:51	0.2647	19.48	0.586
11/17/99	14:31:52	0.2803	19.48	0.581
11/17/99	14:31:53	0.2970	19.48	0.586
11/17/99	14:31:54	0.3147	19.49	0.591
11/17/99	14:31:56	0.3333	19.49	0.586
11/17/99	14:31:57	0.3532	19.49	0.586
11/17/99	14:31:58	0.3742	19.49	0.586
11/17/99	14:31:59	0.3963	19.49	0.581
11/17/99	14:32:01	0.4198	19.49	0.586
11/17/99	14:32:02	0.4447	19.49	0.581
11/17/99	14:32:04	0.4697	19.49	0.586
11/17/99	14:32:05	0.4963	19.49	0.586
11/17/99	14:32:07	0.5247	19.49	0.586
11/17/99	14:32:09	0.5547	19.49	0.586
11/17/99	14:32:11	0.5863	19.49	0.586
11/17/99	14:32:13	0.6213	19.49	0.586
11/17/99	14:32:15	0.6580	19.49	0.586
11/17/99	14:32:17	0.6963	19.49	0.591
11/17/99	14:32:20	0.7380	19.48	0.586
11/17/99	14:32:22	0.7813	19.48	0.586
11/17/99	14:32:25	0.8280	19.48	0.586
11/17/99	14:32:28	0.8763	19.48	0.586
11/17/99	14:32:31	0.9280	19.48	0.586
11/17/99	14:32:34	0.9830	19.48	0.591
11/17/99	14:32:38	1.0413	19.47	0.586
11/17/99	14:32:42	1.1030	19.47	0.581
11/17/99	14:32:46	1.1680	19.47	0.586
11/17/99	14:32:50	1.2380	19.46	0.586
11/17/99	14:32:54	1.3113	19.46	0.591
11/17/99	14:32:59	1.3897	19.46	0.591
11/17/99	14:33:04	1.4730	19.46	0.595
11/17/99	14:33:09	1.5613	19.46	0.586
11/17/99	14:33:15	1.6547	19.45	0.591

11/17/99	14:33:21	1.7530	19.45	0.591

IN_SITU INC. Troll

Report generated: 03/13/00 15:12:01
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC6-1I2.BIN
:aMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: WC6-1I

Test defined on: 11/17/99 14:38:11
Test started on: 11/17/99 14:38:32
Test stopped on: 11/17/99 14:39:29
Test extracted on: 11/17/99 14:40:30

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 60

TOTAL DATA SAMPLES 60

Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

..annel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 5.670 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/17/99	14:38:32	0.0000	19.49	0.000
11/17/99	14:38:32	0.0050	19.50	0.542
11/17/99	14:38:32	0.0100	19.50	0.761
11/17/99	14:38:32	0.0150	19.50	0.860
11/17/99	14:38:33	0.0200	19.51	0.902
11/17/99	14:38:33	0.0250	19.51	0.916
11/17/99	14:38:33	0.0300	19.51	0.920
11/17/99	14:38:34	0.0350	19.52	0.916
[illegible]17/99	14:38:34	0.0400	19.52	0.920
[illegible]17/99	14:38:34	0.0450	19.52	0.916
11/17/99	14:38:35	0.0500	19.52	0.916
11/17/99	14:38:35	0.0550	19.53	0.916
11/17/99	14:38:35	0.0600	19.53	0.916
11/17/99	14:38:35	0.0650	19.54	0.916

11/17/99	14:38:36	0.0700	19.54	0.916
11/17/99	14:38:36	0.0750	19.54	0.916
11/17/99	14:38:36	0.0800	19.54	0.911
11/17/99	14:38:37	0.0850	19.54	0.916
'17/99	14:38:37	0.0900	19.55	0.916
11/17/99	14:38:37	0.0950	19.55	0.916
11/17/99	14:38:38	0.1000	19.55	0.911
11/17/99	14:38:38	0.1058	19.55	0.916
11/17/99	14:38:38	0.1120	19.56	0.911
11/17/99	14:38:39	0.1185	19.56	0.911
11/17/99	14:38:39	0.1255	19.56	0.916
11/17/99	14:38:39	0.1328	19.56	0.911
11/17/99	14:38:40	0.1407	19.56	0.911
11/17/99	14:38:40	0.1490	19.57	0.907
11/17/99	14:38:41	0.1578	19.57	0.916
11/17/99	14:38:42	0.1672	19.57	0.911
11/17/99	14:38:42	0.1770	19.58	0.911
11/17/99	14:38:43	0.1875	19.58	0.911
11/17/99	14:38:43	0.1985	19.57	0.911
11/17/99	14:38:44	0.2102	19.57	0.907
11/17/99	14:38:45	0.2227	19.58	0.902
11/17/99	14:38:46	0.2358	19.58	0.907
11/17/99	14:38:46	0.2498	19.58	0.907
11/17/99	14:38:47	0.2647	19.59	0.902
11/17/99	14:38:48	0.2803	19.59	0.907
11/17/99	14:38:49	0.2970	19.60	0.907
11/17/99	14:38:50	0.3147	19.60	0.907
'17/99	14:38:52	0.3333	19.60	0.907
11/17/99	14:38:53	0.3532	19.60	0.907
11/17/99	14:38:54	0.3742	19.60	0.902
11/17/99	14:38:55	0.3963	19.60	0.902
11/17/99	14:38:57	0.4198	19.60	0.907
11/17/99	14:38:58	0.4447	19.60	0.902
11/17/99	14:39:00	0.4697	19.60	0.902
11/17/99	14:39:01	0.4963	19.60	0.907
11/17/99	14:39:03	0.5247	19.60	0.902
11/17/99	14:39:05	0.5547	19.60	0.907
11/17/99	14:39:07	0.5863	19.60	0.897
11/17/99	14:39:09	0.6213	19.60	0.902
11/17/99	14:39:11	0.6580	19.60	0.907
11/17/99	14:39:13	0.6963	19.60	0.907
11/17/99	14:39:16	0.7380	19.60	0.907
11/17/99	14:39:18	0.7813	19.60	0.902
11/17/99	14:39:21	0.8280	19.59	0.902
11/17/99	14:39:24	0.8763	19.59	0.907
11/17/99	14:39:27	0.9280	19.59	0.907

IN_SITU INC. Troll

Report generated: 03/13/00 15:12:18
Report from file: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC9-D2.BIN
:aMgr Version 2.19.0.0

Serial number: 00012628
Firmware Version 7.07
Unit name:

Test name: WC9-D2

Test defined on: 11/18/99 12:11:51
Test started on: 11/18/99 12:50:54
Test stopped on: 11/18/99 12:52:51
Test extracted on: 11/18/99 12:53:42

Data gathered using Logarithmic testing
Maximum time between data points: 1.0000 Minutes.
Number of data samples: 72

TOTAL DATA SAMPLES 72

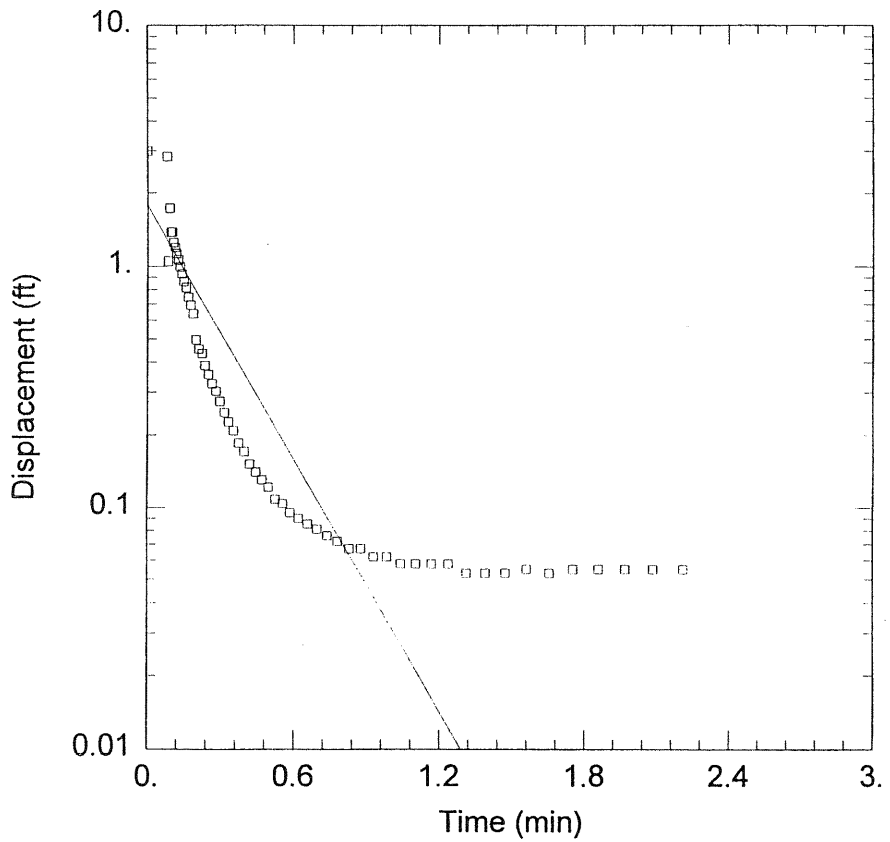
Channel number [1]
Measurement type: Temperature
Channel name: OnBoard Temp

Channel number [2]
Measurement type: Pressure/Level
Channel name: OnBoard Pressure
Sensor Range: 30 PSI.
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Feet H2O
Referenced on: test start
Pressure head at reference: 19.883 Feet H2O

Date	Time	ET (min)	Chan[1] Celsius	Chan[2] Feet H2O
11/18/99	12:50:54	0.0000	17.90	0.000
11/18/99	12:50:54	0.0050	17.91	-0.055
11/18/99	12:50:54	0.0100	17.91	-0.051
11/18/99	12:50:54	0.0150	17.91	-0.028
11/18/99	12:50:55	0.0200	17.92	-0.005
11/18/99	12:50:55	0.0250	17.93	-0.009
11/18/99	12:50:55	0.0300	17.93	-0.014
11/18/99	12:50:56	0.0350	17.93	-0.051
[illegible]/18/99	12:50:56	0.0400	17.93	-0.023
[illegible]/18/99	12:50:56	0.0450	17.94	-0.028
11/18/99	12:50:57	0.0500	17.94	-0.028
11/18/99	12:50:57	0.0550	17.94	-0.032
11/18/99	12:50:57	0.0600	17.94	-0.032
11/18/99	12:50:57	0.0650	17.94	-0.032

11/18/99	12:50:58	0.0700	17.94	-0.051
11/18/99	12:50:58	0.0750	17.95	-0.032
11/18/99	12:50:58	0.0800	17.95	-0.856
11/18/99	12:50:59	0.0850	17.96	-1.520
'18/99	12:50:59	0.0900	17.96	-2.424
11/18/99	12:50:59	0.0950	17.96	-2.198
11/18/99	12:51:00	0.1000	17.96	-1.864
11/18/99	12:51:00	0.1058	17.96	-1.698
11/18/99	12:51:00	0.1120	17.96	-1.670
11/18/99	12:51:01	0.1185	17.97	-1.585
11/18/99	12:51:01	0.1255	17.97	-1.492
11/18/99	12:51:01	0.1328	17.97	-1.377
11/18/99	12:51:02	0.1407	17.98	-1.271
11/18/99	12:51:02	0.1490	17.98	-1.163
11/18/99	12:51:03	0.1578	17.98	-1.059
11/18/99	12:51:04	0.1672	17.98	-0.960
11/18/99	12:51:04	0.1770	17.99	-0.860
11/18/99	12:51:05	0.1875	17.99	-0.775
11/18/99	12:51:05	0.1985	17.99	-0.694
11/18/99	12:51:06	0.2102	17.99	-0.584
11/18/99	12:51:07	0.2227	17.99	-0.517
11/18/99	12:51:08	0.2358	17.99	-0.454
11/18/99	12:51:08	0.2498	18.00	-0.408
11/18/99	12:51:09	0.2647	18.00	-0.346
11/18/99	12:51:10	0.2803	17.99	-0.300
11/18/99	12:51:11	0.2970	18.00	-0.258
11/18/99	12:51:12	0.3147	18.00	-0.228
'18/99	12:51:14	0.3333	18.00	-0.201
11/18/99	12:51:15	0.3532	18.00	-0.173
11/18/99	12:51:16	0.3742	18.00	-0.155
11/18/99	12:51:17	0.3963	17.99	-0.141
11/18/99	12:51:19	0.4198	17.99	-0.125
11/18/99	12:51:20	0.4447	17.99	-0.115
11/18/99	12:51:22	0.4697	17.99	-0.106
11/18/99	12:51:23	0.4963	17.99	-0.101
11/18/99	12:51:25	0.5247	17.98	-0.097
11/18/99	12:51:27	0.5547	17.99	-0.092
11/18/99	12:51:29	0.5863	17.98	-0.088
11/18/99	12:51:31	0.6213	17.98	-0.083
11/18/99	12:51:33	0.6580	17.98	-0.078
11/18/99	12:51:35	0.6963	17.97	-0.083
11/18/99	12:51:38	0.7380	17.96	-0.083
11/18/99	12:51:40	0.7813	17.96	-0.078
11/18/99	12:51:43	0.8280	17.96	-0.078
11/18/99	12:51:46	0.8763	17.95	-0.069
11/18/99	12:51:49	0.9280	17.94	-0.078
11/18/99	12:51:52	0.9830	17.94	-0.065
11/18/99	12:51:56	1.0413	17.93	-0.078
11/18/99	12:52:00	1.1030	17.93	-0.074
11/18/99	12:52:04	1.1680	17.91	-0.074
'18/99	12:52:08	1.2380	17.91	-0.078
18/99	12:52:12	1.3113	17.90	-0.074
11/18/99	12:52:17	1.3897	17.89	-0.074
11/18/99	12:52:22	1.4730	17.88	-0.083
11/18/99	12:52:27	1.5613	17.87	-0.078
11/18/99	12:52:33	1.6547	17.86	-0.083

11/18/99	12:52:39	1.7530	17.85	-0.078
11/18/99	12:52:45	1.8580	17.84	-0.078



LW-2S

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\LW-2.AQT
Date: 02/01/00 Time: 11:35:21

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: FOR98104
Test Location: Stratford, CT
Test Well: LW-2S
Test Date: 11/18/99

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.008907 ft/min
y0 = 1.76 ft

AQUIFER DATA

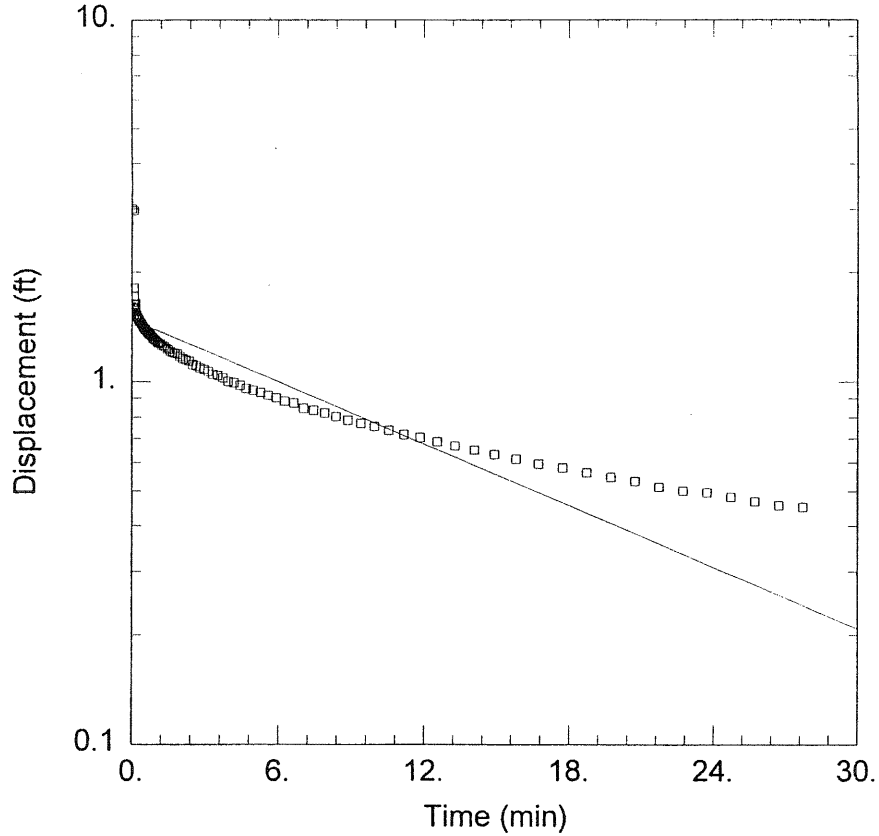
Saturated Thickness: 10. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 3. ft
Casing Radius: 0.083 ft
Screen Length: 10. ft

Water Column Height: 10. ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



LW-3S

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\LW-3.AQT
Date: 02/01/00 Time: 11:35:35

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: 47FOR98104
Test Location: Stratford, CT
Test Well: LW-3S
Test Date: 11/18/99

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.000238 ft/min
y0 = 1.478 ft

AQUIFER DATA

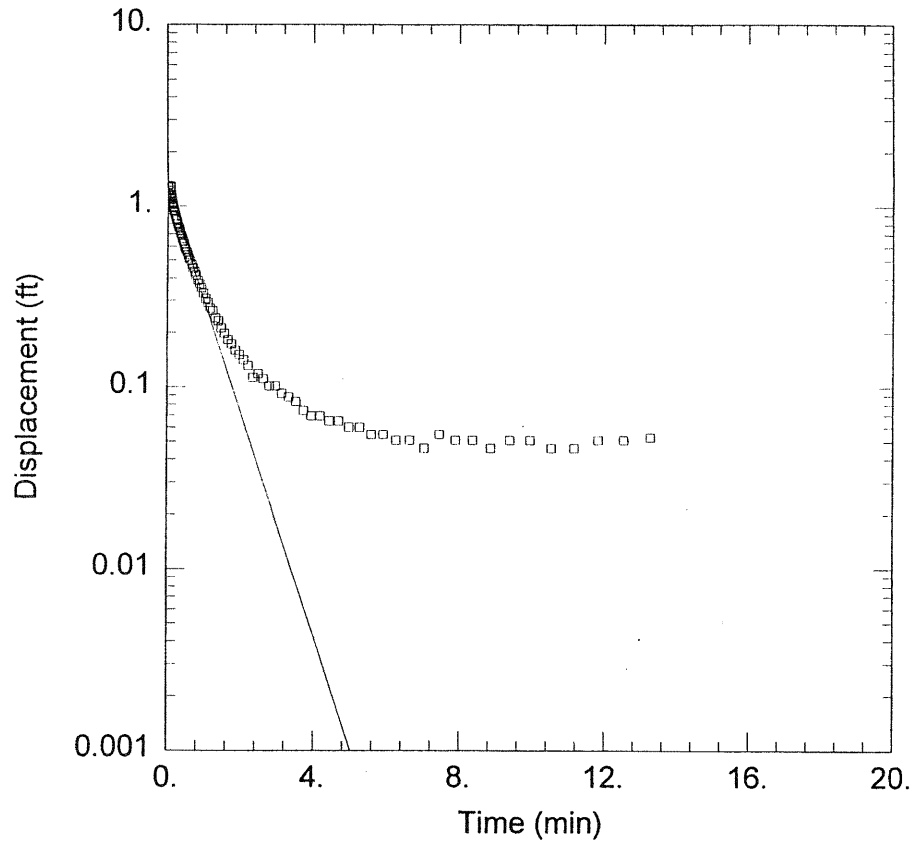
Saturated Thickness: 5. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 3. ft
Casing Radius: 0.0833 ft
Screen Length: 5. ft

Water Column Height: 5. ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



LW-5S

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\LW-5S.AQT
Date: 02/01/00 Time: 11:35:53

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: 47FOR98104
Test Location: Stratford, CT
Test Well: LW-5S
Test Date: 11/18/99

SOLUTION

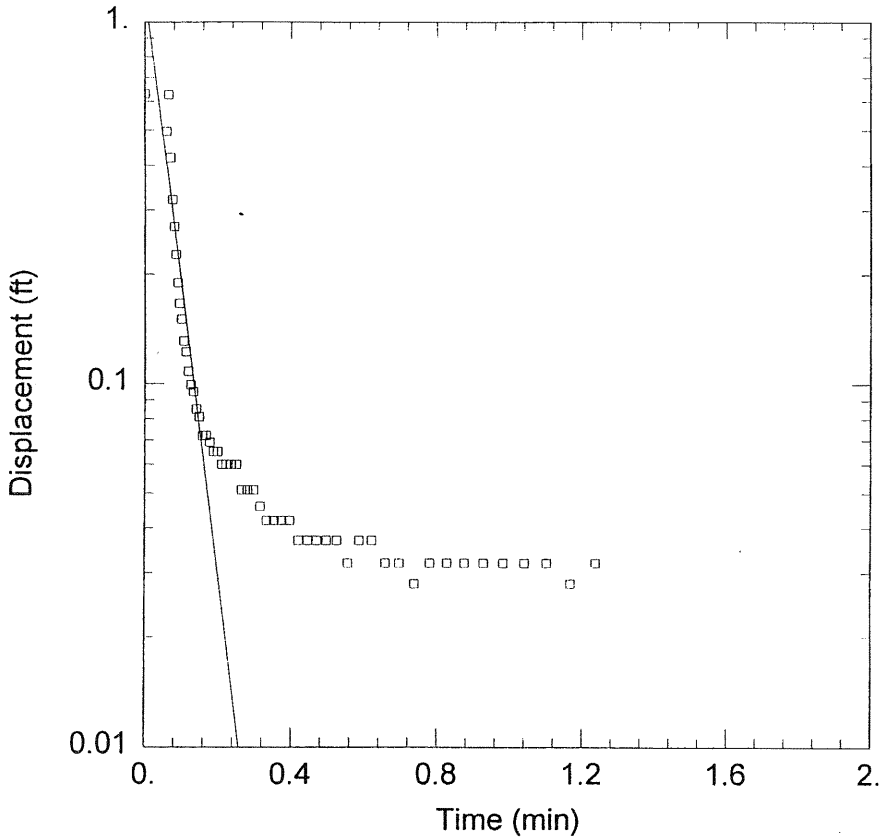
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.004446 ft/min
y0 = 1.248 ft

AQUIFER DATA

Saturated Thickness: 5. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 1.3 ft
Casing Radius: 0.083 ft
Screen Length: 5. ft
Water Column Height: 4. ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



MW-99-01A

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\MW991A.AQ
Date: 02/01/00 Time: 11:36:08

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: 47FOR98104
Test Location: Stratford, CT
Test Well: MW-99-01A
Test Date: 11/18/99

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.03282 ft/min
y0 = 1.215 ft

AQUIFER DATA

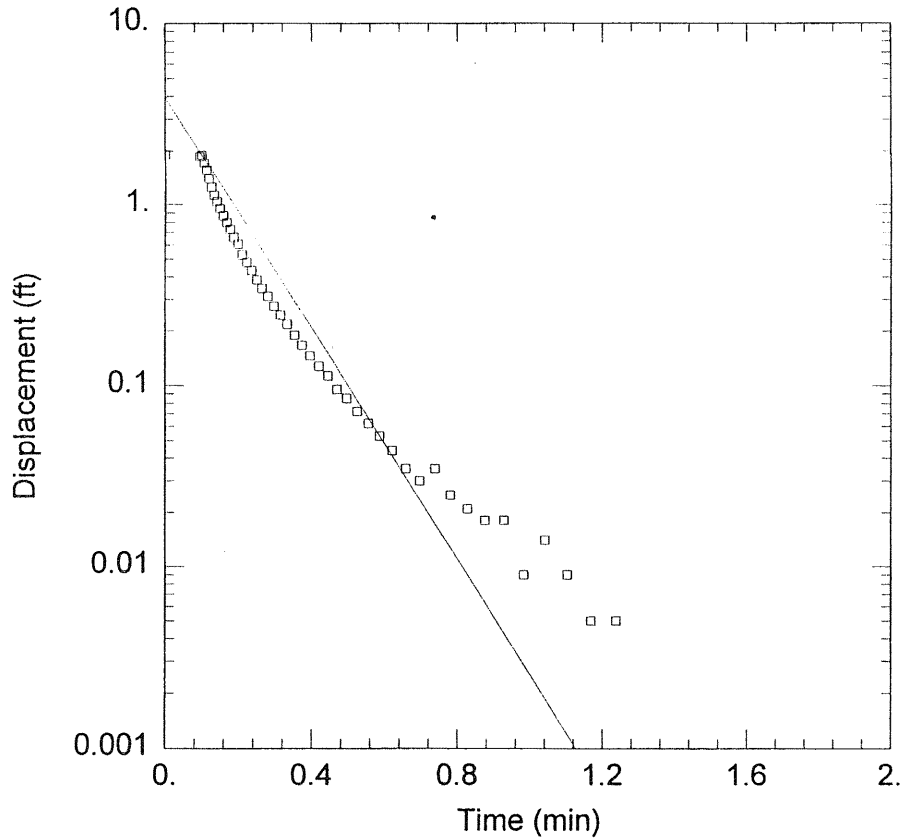
Saturated Thickness: 10. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 0.63 ft
Casing Radius: 0.083 ft
Screen Length: 10. ft

Water Column Height: 5.5 ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



MW-99-01B

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\MW991B.AQ
Date: 02/01/00 Time: 11:36:22

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: 47FOR98104
Test Location: Stratford, CT
Test Well: MW-99-01B
Test Date: 11/18/99

SOLUTION

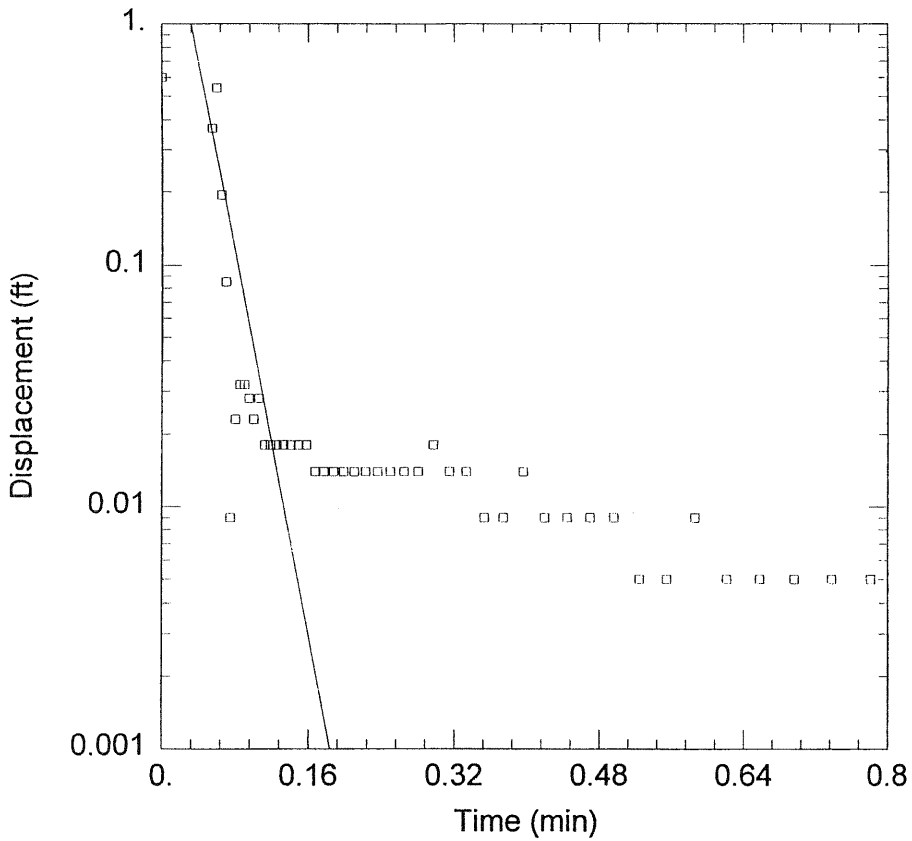
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.02174 ft/min
y0 = 3.94 ft

AQUIFER DATA

Saturated Thickness: 56. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 1.9 ft
Casing Radius: 0.083 ft
Screen Length: 10. ft
Water Column Height: 56. ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



MW-99-02A

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\MW992A.AQ
Date: 02/01/00 Time: 11:36:35

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: 47FOR98104
Test Location: Stratford, CT
Test Well: MW-99-02A
Test Date: 11/19/99

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.08054 ft/min
y0 = 4.31 ft

AQUIFER DATA

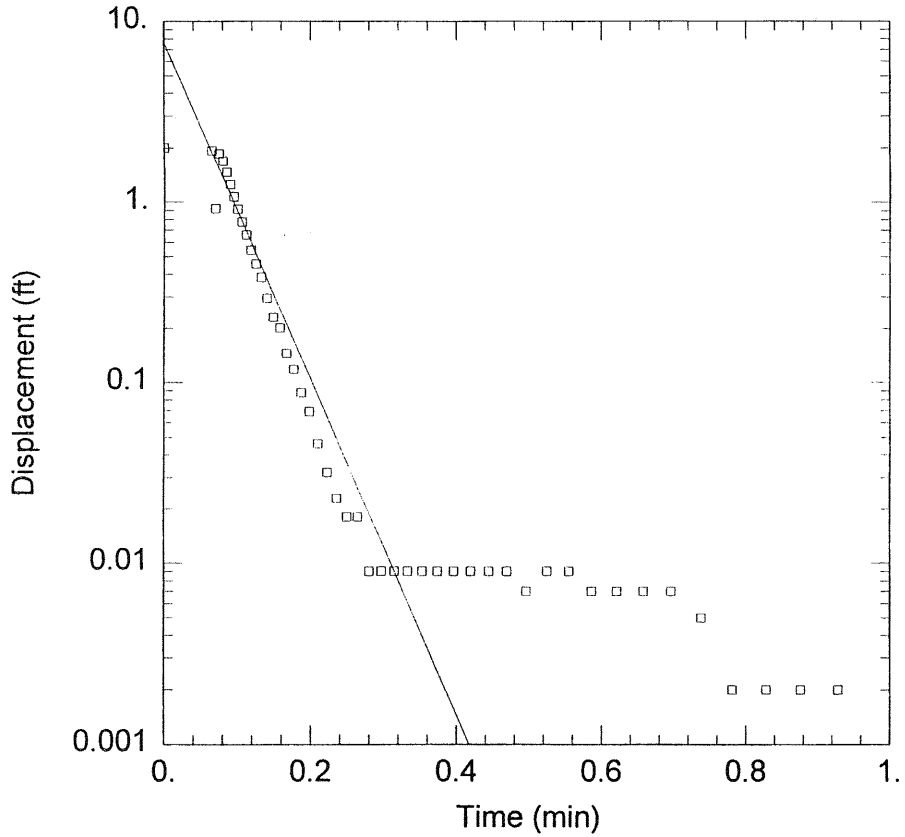
Saturated Thickness: 5. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 0.6 ft
Casing Radius: 0.083 ft
Screen Length: 10. ft

Water Column Height: 4.5 ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



MW-99-02B

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\MW992B.AQ
Date: 02/01/00 Time: 11:41:24

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: 47FOR98104
Test Location: Stratford, CT
Test Well: MW-99-02B
Test Date: 11/18/99

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.063 ft/min
y0 = 7.598 ft

AQUIFER DATA

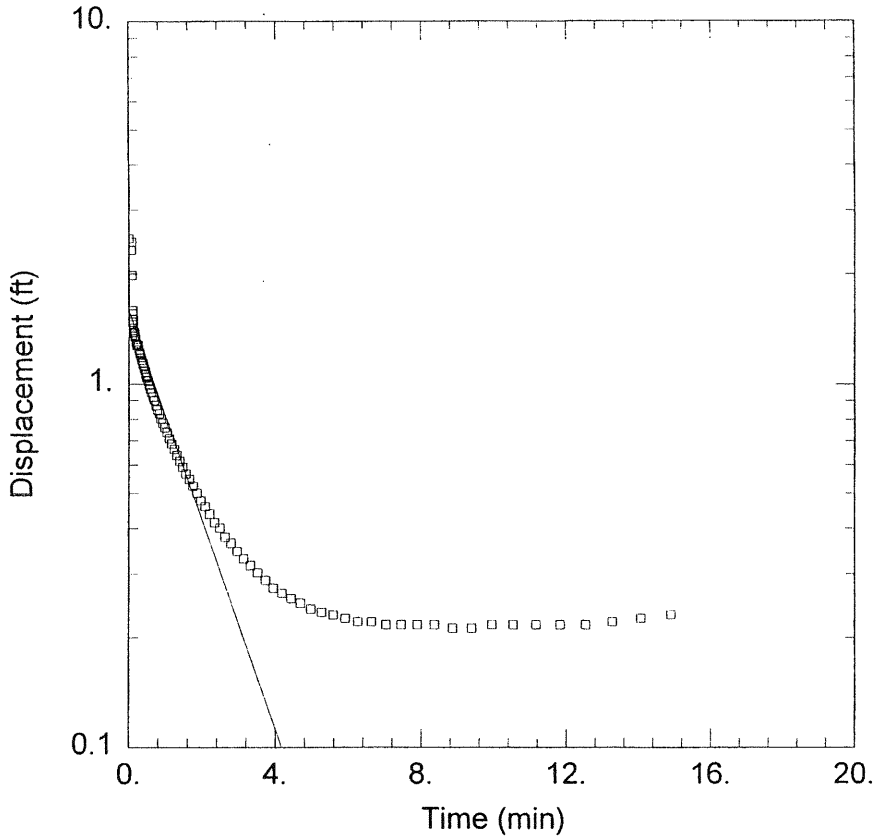
Saturated Thickness: 53. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 2. ft
Casing Radius: 0.0833 ft
Screen Length: 10. ft

Water Column Height: 53. ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



PZ-5D

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\PZ5D.AQT
Date: 02/01/00 Time: 11:41:39

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: 47FOR98104
Test Location: Stratford, CT
Test Well: PZ-5D
Test Date: 11/17/99

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.001772 ft/min
y0 = 1.586 ft

AQUIFER DATA

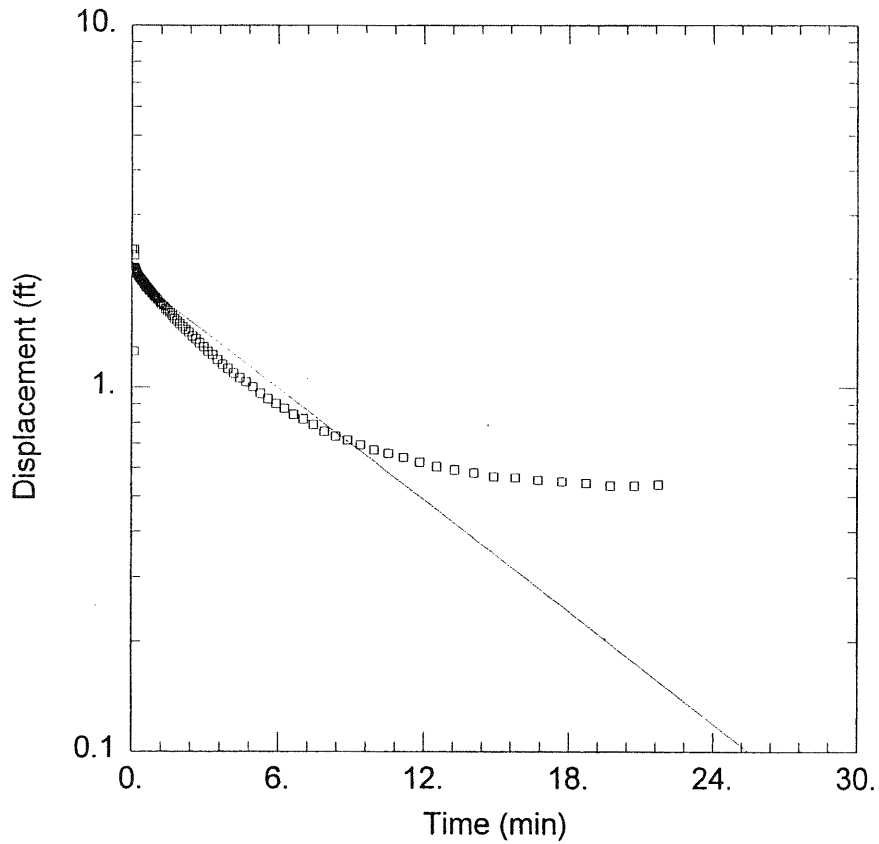
Saturated Thickness: 42. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 2.5 ft
Casing Radius: 0.0833 ft
Screen Length: 10. ft

Water Column Height: 41.55 ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



PZ-9D

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\PZ9D.AQT
Date: 02/01/00 Time: 11:41:55

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: 47FOR98104
Test Location: Stratford, CT
Test Well: PZ-9D
Test Date: 11/18/99

SOLUTION

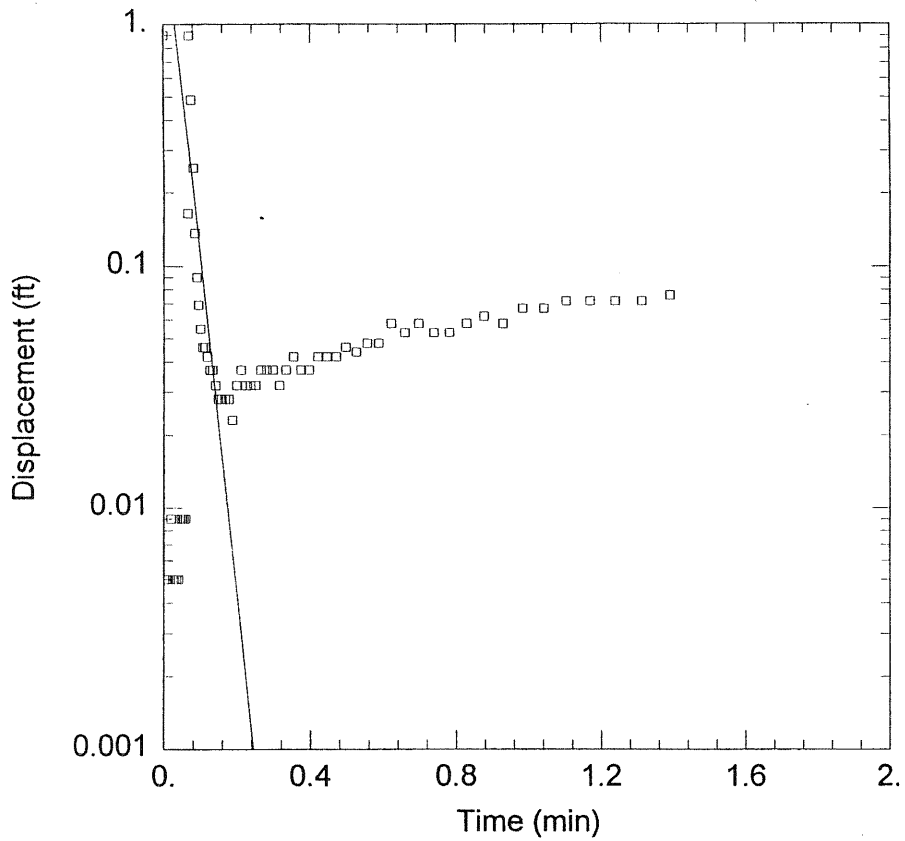
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.0002928 ft/min
y0 = 2.019 ft

AQUIFER DATA

Saturated Thickness: 30. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 2.4 ft
Casing Radius: 0.0833 ft
Screen Length: 10. ft
Water Column Height: 29.01 ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



WC1-1S

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC1-1S.AQ
Date: 02/01/00 Time: 11:42:19

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: 47FOR98104
Test Location: Stratford, CT
Test Well: WC1-1S
Test Date: 11/18/99

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.06248 ft/min
y0 = 2.772 ft

AQUIFER DATA

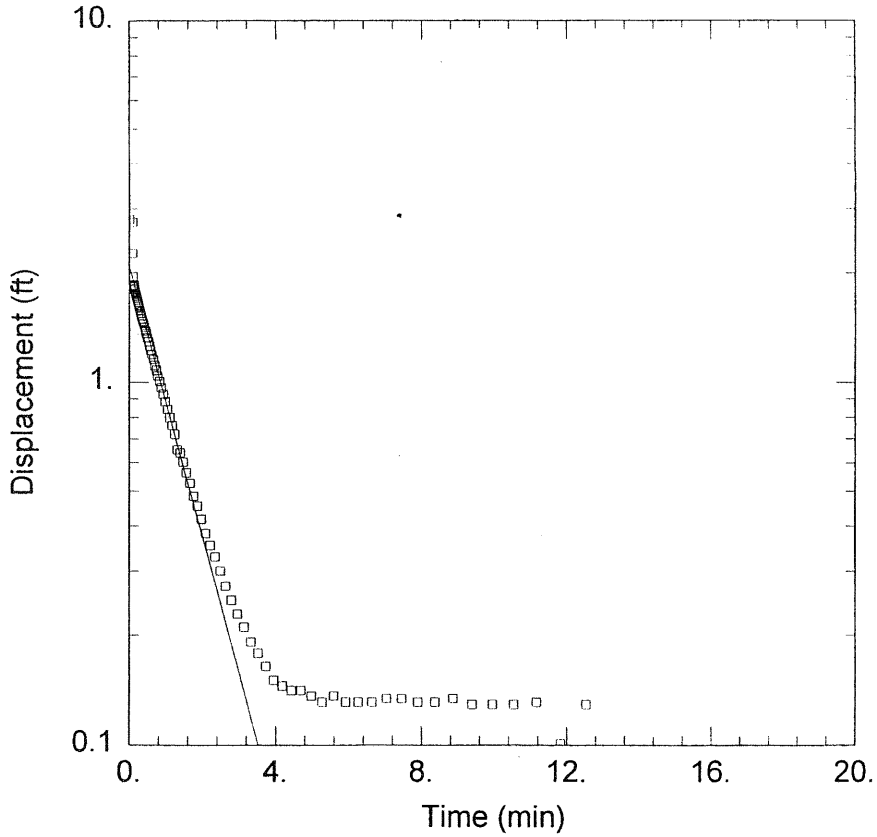
Saturated Thickness: 6.5 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 0.9 ft
Casing Radius: 0.0833 ft
Screen Length: 10. ft

Water Column Height: 6.18 ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



WC2-1D

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC2-1D.AQ
Date: 02/01/00 Time: 11:42:34

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: 47FOR98104
Test Location: Stratford, CT
Test Well: WC2-1D
Test Date: 11/17/99

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.002469 ft/min
y0 = 2.091 ft

AQUIFER DATA

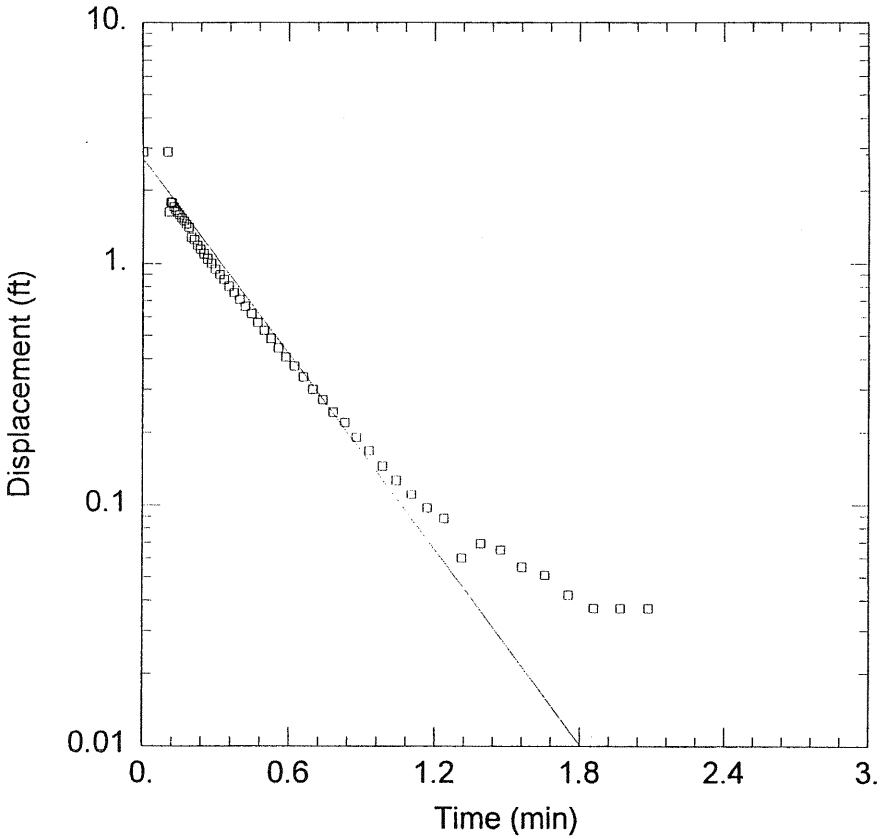
Saturated Thickness: 149. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 2.8 ft
Casing Radius: 0.0833 ft
Screen Length: 10. ft

Water Column Height: 145. ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



WC2-1I

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC2-1I.AQT
Date: 02/01/00 Time: 11:42:52

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: 47FOR98104
Test Location: Stratford, CT
Test Well: WC2-1I
Test Date: 11/17/99

SOLUTION

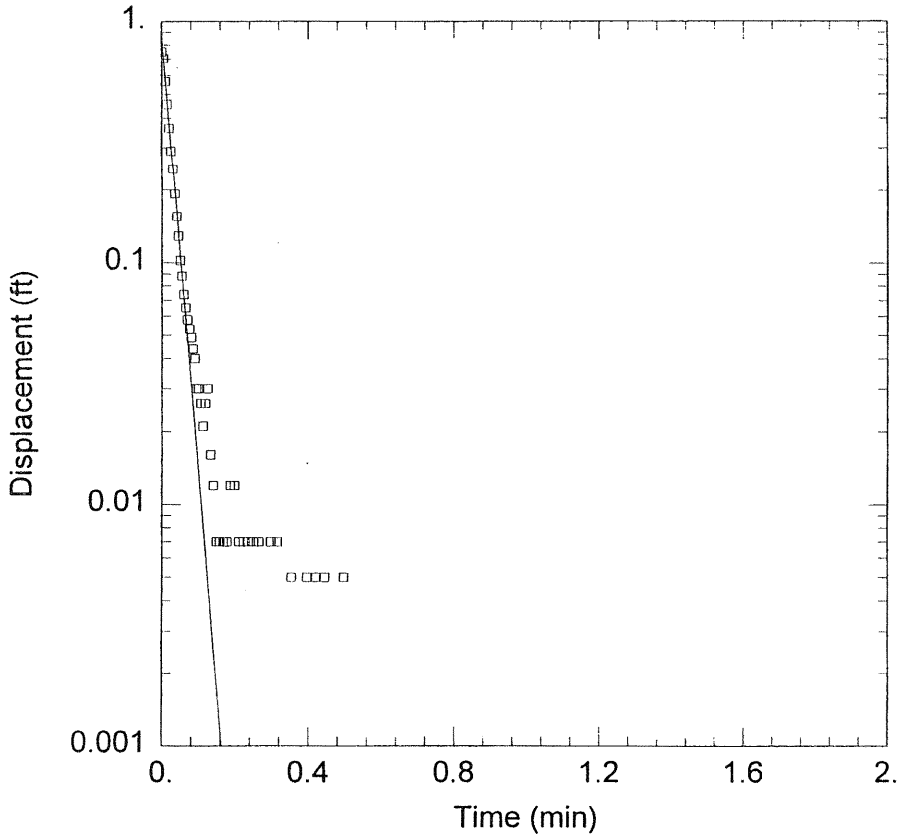
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.009053 ft/min
y0 = 2.696 ft

AQUIFER DATA

Saturated Thickness: 50. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 2.9 ft
Casing Radius: 0.0833 ft
Screen Length: 10. ft
Water Column Height: 50. ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



WC2-1S

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC2-1S.AQ
Date: 02/01/00 Time: 11:43:08

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Straford Army Engine Plant
Project: 47FOR98104
Test Location: Straford, CT
Test Well: WC2-1S
Test Date: 11/17/99

SOLUTION

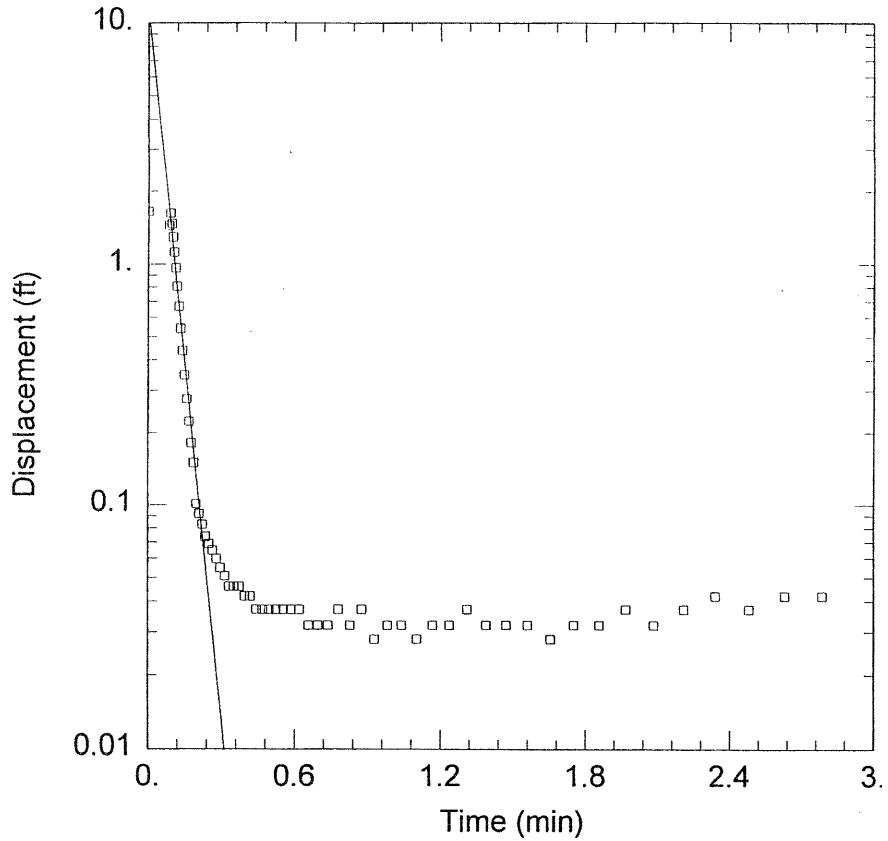
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.08344 ft/min
y0 = 0.8509 ft

AQUIFER DATA

Saturated Thickness: 8. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 0.75 ft
Casing Radius: 0.0833 ft
Screen Length: 10. ft
Water Column Height: 7.67 ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



WC2-2D

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC2-2D.AQ
Date: 02/01/00 Time: 11:43:25

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Straford Army Engine Plant
Project: 47FOR98104
Test Location: Stratford, CT
Test Well: WC2-2D
Test Date: 11/17/99

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.06231 ft/min
y0 = 11.49 ft

AQUIFER DATA

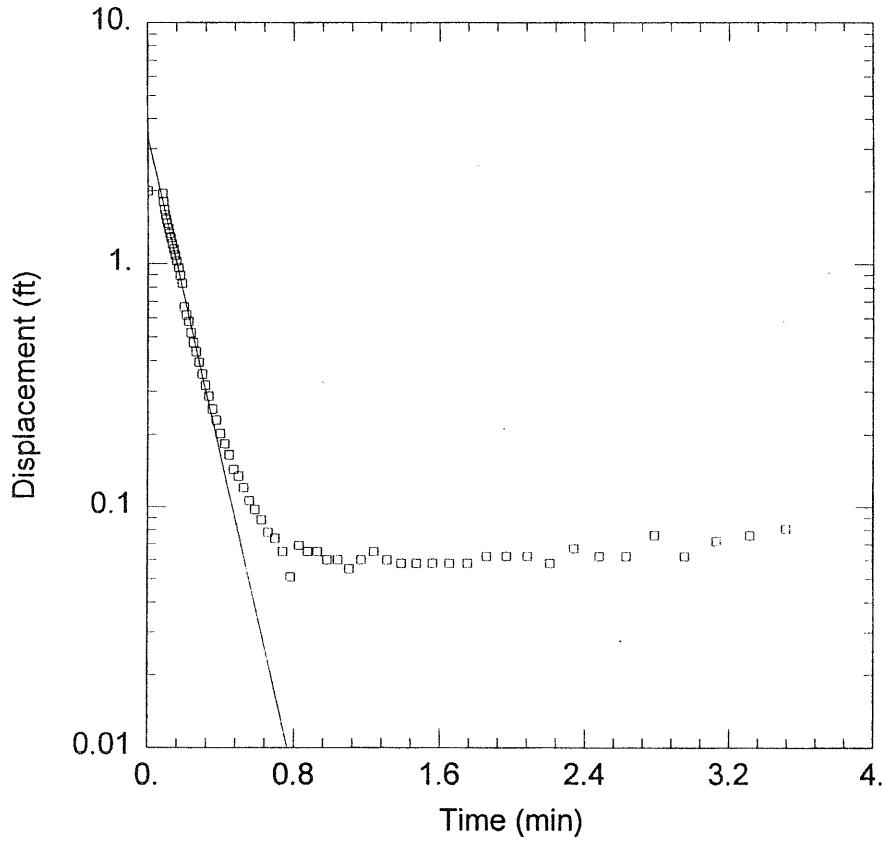
Saturated Thickness: 56. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 1.65 ft
Casing Radius: 0.0833 ft
Screen Length: 10. ft

Water Column Height: 55.48 ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



WC2-2I

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC2-2I.AQT
Date: 02/01/00 Time: 11:43:40

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: 47FOR980104
Test Location: Stratford, CT
Test Well: WC2-2I
Test Date: 11/17/99

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.02078 ft/min
y0 = 3.342 ft

AQUIFER DATA

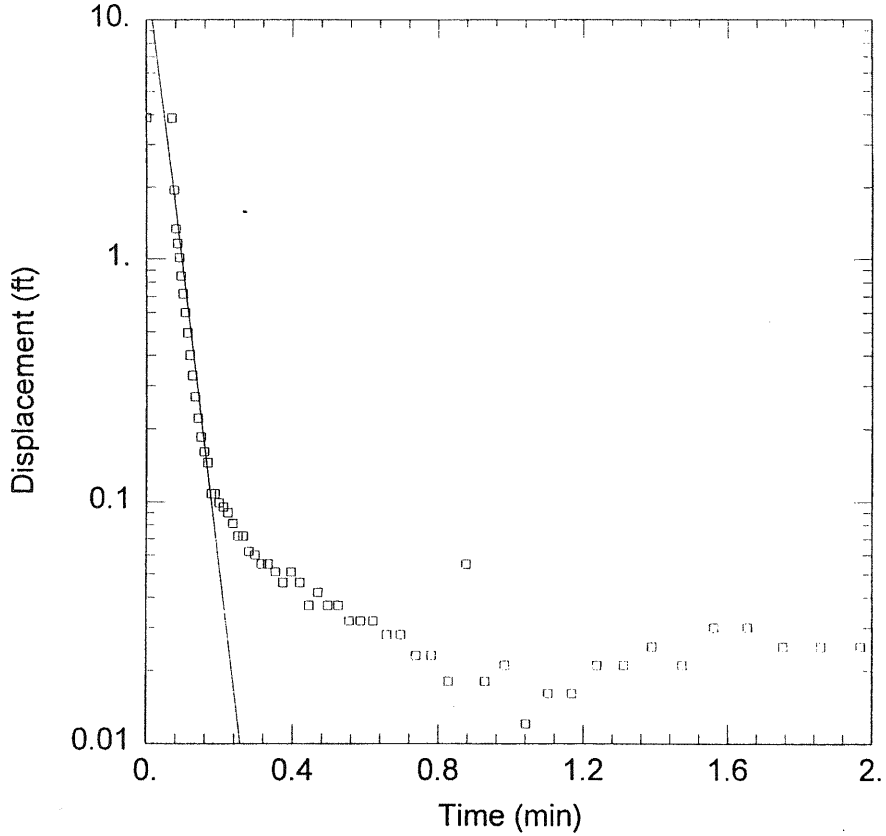
Saturated Thickness: 51. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 2. ft
Casing Radius: 0.0833 ft
Screen Length: 10. ft

Water Column Height: 50.5 ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



WC2-3S

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC2-3S.AQ
Date: 02/01/00 Time: 11:45:01

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: 47FOR98104
Test Location: Stratford , CT
Test Well: WC2-3S
Test Date: 11/17/99

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.05811 ft/min
y0 = 16.12 ft

AQUIFER DATA

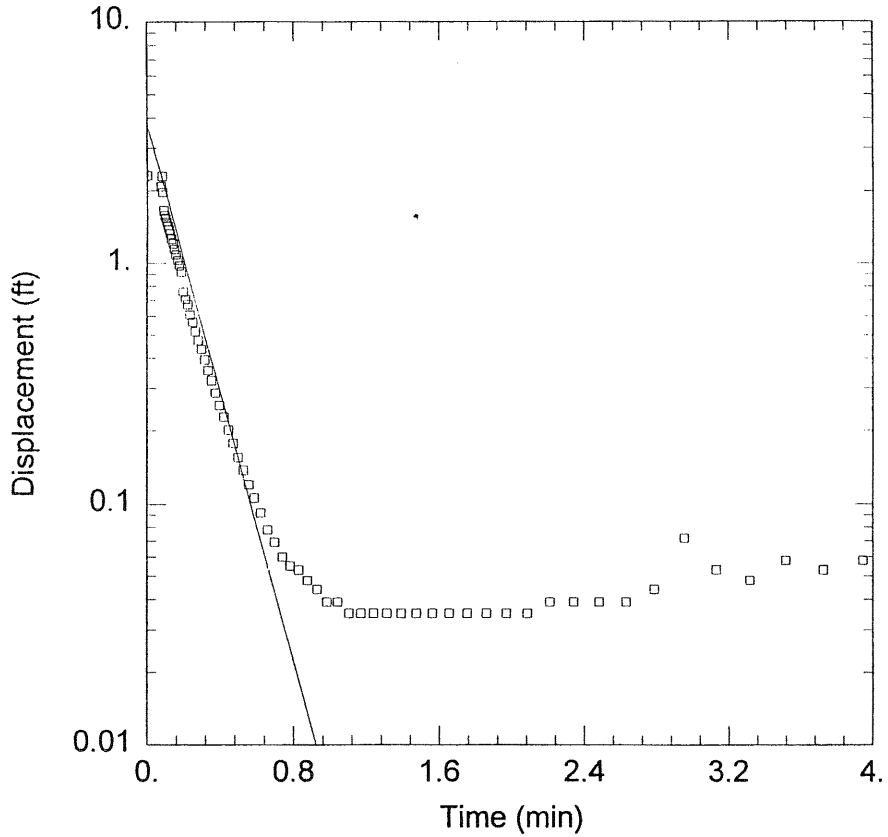
Saturated Thickness: 7.5 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 3.9 ft
Casing Radius: 0.0833 ft
Screen Length: 10. ft

Water Column Height: 7.29 ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



WC2-3I

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC2-3I.AQT
Date: 02/01/00 Time: 11:50:24

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: 47FOR98104
Test Location: Stratford, CT
Test Well: WC2-3I
Test Date: 11/17/99

SOLUTION

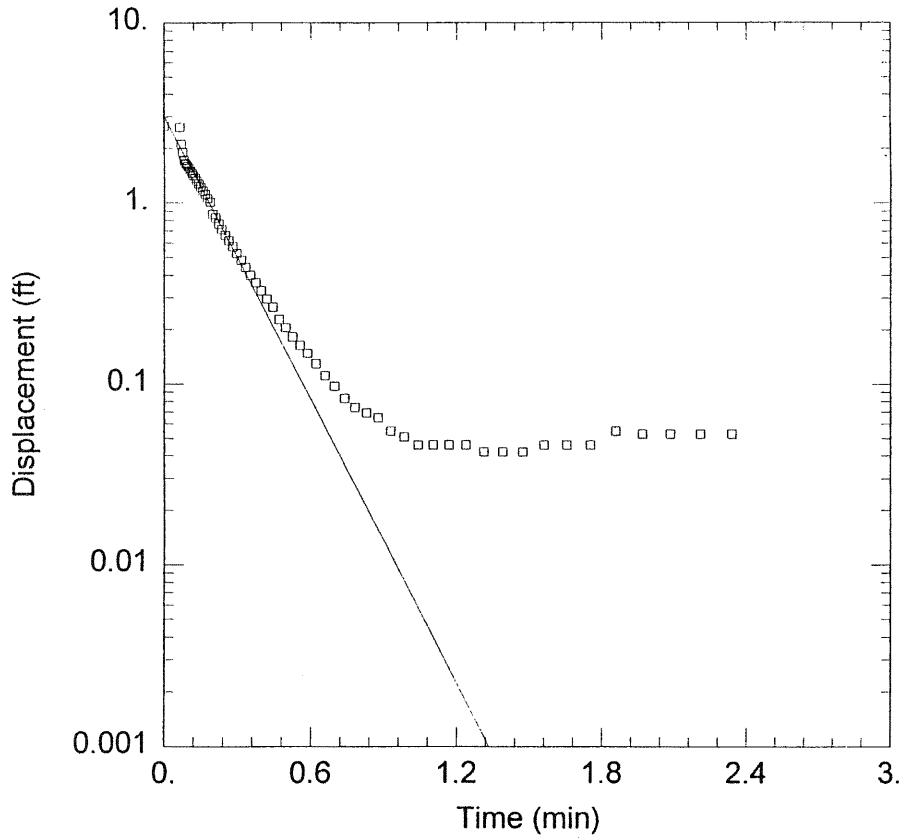
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.01769 ft/min
y0 = 3.758 ft

AQUIFER DATA

Saturated Thickness: 51. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 2.3 ft
Casing Radius: 0.0833 ft
Screen Length: 10. ft
Water Column Height: 50.59 ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



WC2-3D

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC2-3D.AQ
Date: 02/02/00 Time: 16:09:44

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: 47FOR98104
Test Location: Stratford, CT
Test Well: WC3-3D
Test Date: 11/18/99

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.01696 ft/min
y0 = 3.005 ft

AQUIFER DATA

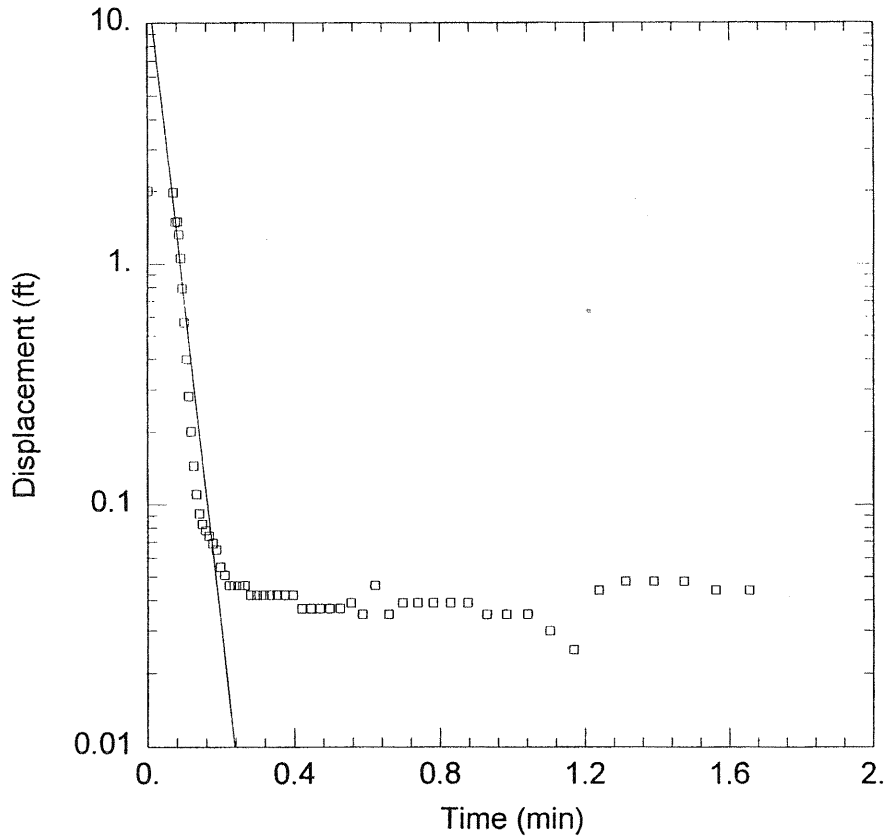
Saturated Thickness: 80. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 2.65 ft
Casing Radius: 0.0833 ft
Screen Length: 10. ft

Water Column Height: 79.01 ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



WC2-4I

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC2-4I.AQT
Date: 02/01/00 Time: 11:45:18

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: 47FOR98104
Test Location: Stratford, CT
Test Well: WC2-4I
Test Date: 11/18/99

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.08287 ft/min
y0 = 15.46 ft

AQUIFER DATA

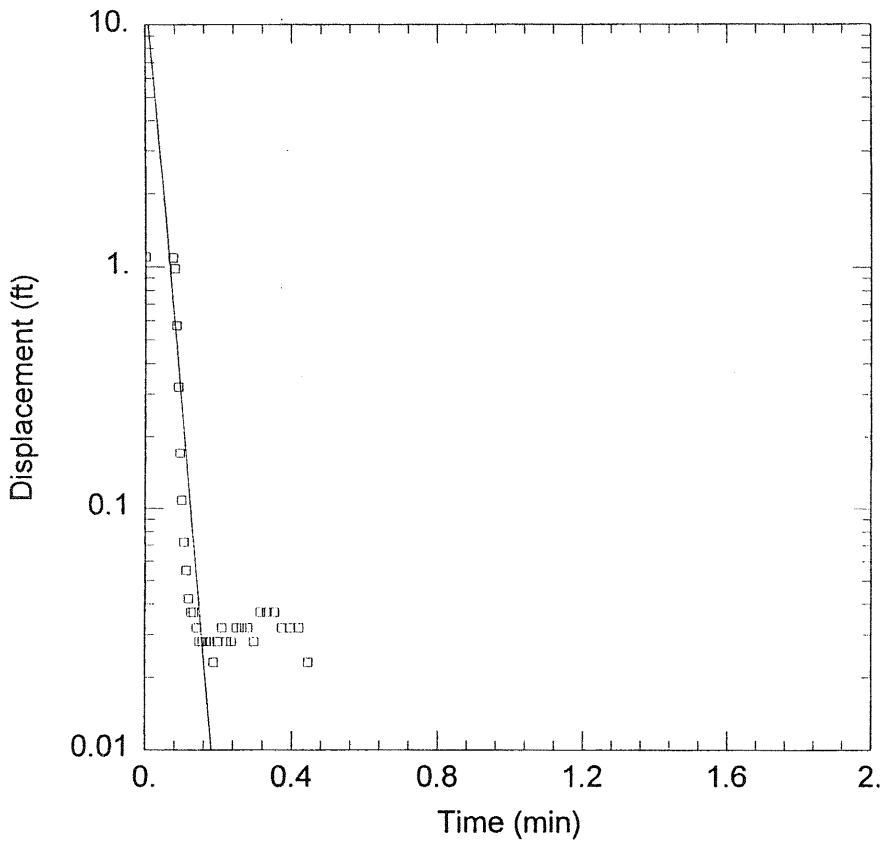
Saturated Thickness: 28.36 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 2. ft
Casing Radius: 0.0833 ft
Screen Length: 10. ft

Water Column Height: 28.36 ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



WC2-4S

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC2-4S.AQ
Date: 02/01/00 Time: 11:45:34

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: 47FOR98104
Test Location: Stratford, CT
Test Well: WC2-4S
Test Date: 11/18/99

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.07953 ft/min
y0 = 14.44 ft

AQUIFER DATA

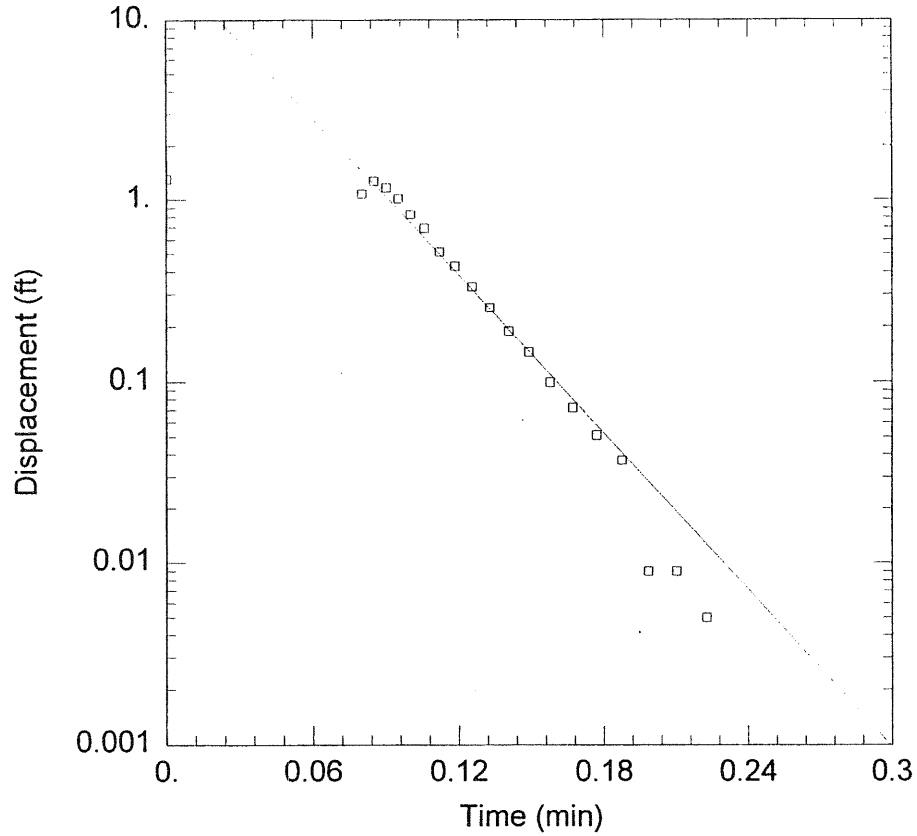
Saturated Thickness: 6.5 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 1.1 ft
Casing Radius: 0.0833 ft
Screen Length: 10. ft

Water Column Height: 6.37 ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



WC2-5I

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC2-5I.AQT
Date: 02/01/00 Time: 11:45:51

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: 47FOR98104
Test Location: Stratford, CT
Test Well: WC2-5I
Test Date: 11/19/99

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.08423 ft/min
y0 = 20.61 ft

AQUIFER DATA

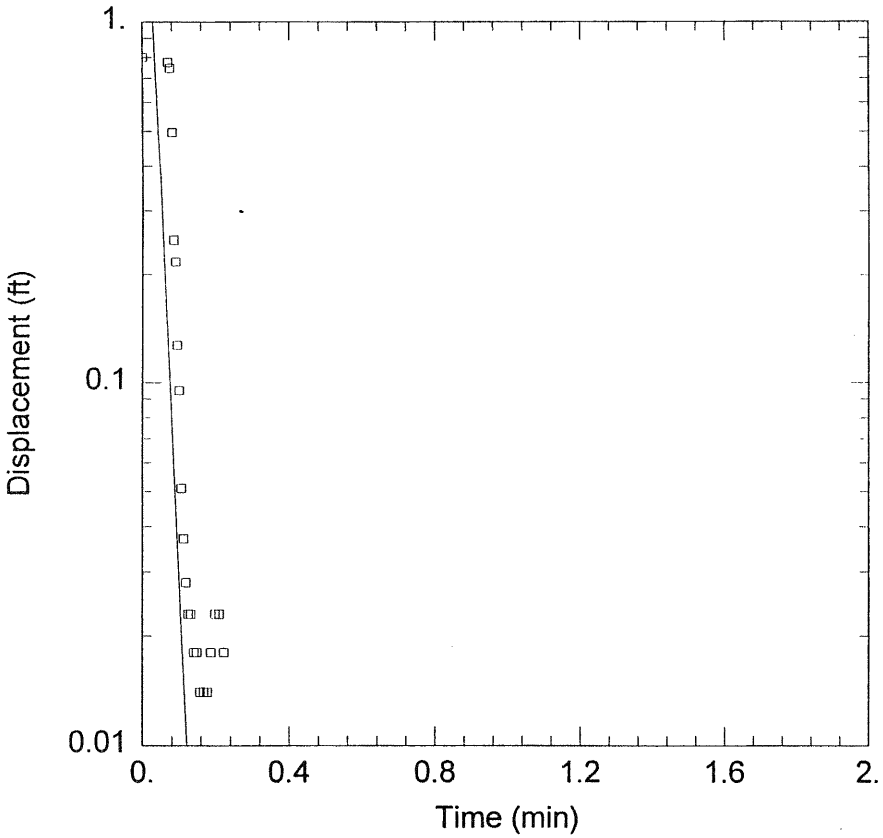
Saturated Thickness: 34. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 1.3 ft
Casing Radius: 0.0833 ft
Screen Length: 10. ft

Water Column Height: 33.11 ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



WC2-5S

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC2-5S.AQ
Date: 02/01/00 Time: 11:46:07

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: 47FOR98104
Test Location: Stratford, CT
Test Well: WC2-5S
Test Date: 11/18/99

SOLUTION

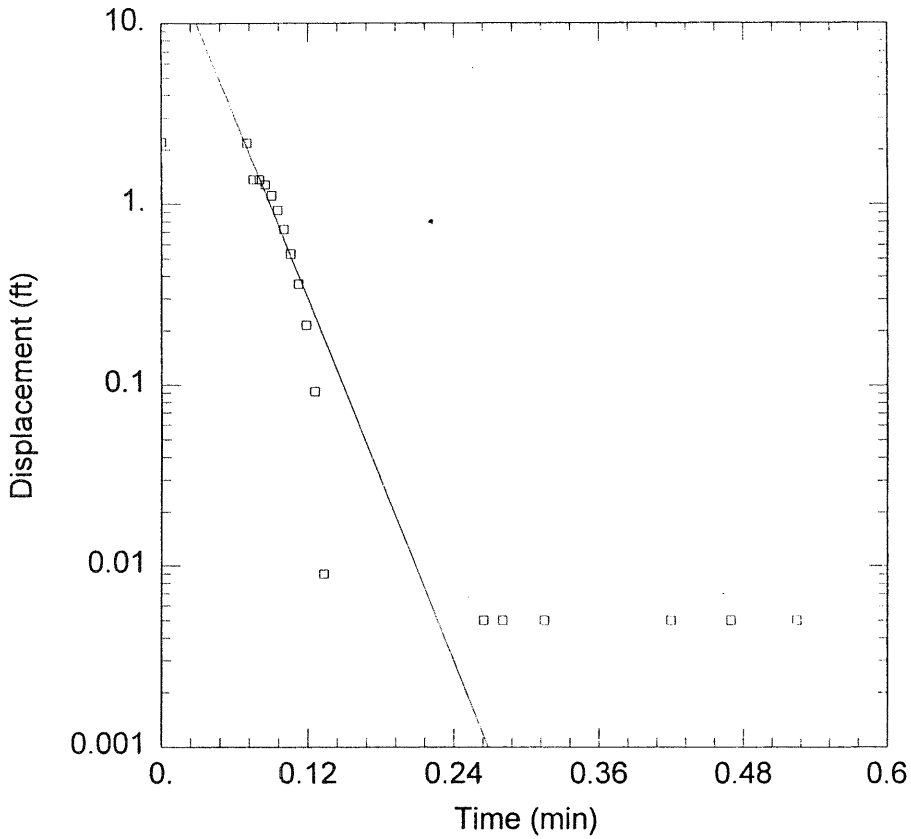
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.08726 ft/min
y0 = 4.203 ft

AQUIFER DATA

Saturated Thickness: 4. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 0.8 ft
Casing Radius: 0.0833 ft
Screen Length: 10. ft
Water Column Height: 3.86 ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



WC2-6I

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC2-6I.AQT
Date: 02/01/00 Time: 11:46:27

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: 47FOR98104
Test Location: Stratford, CT
Test Well: WC2-6I
Test Date: 11/18/99

SOLUTION

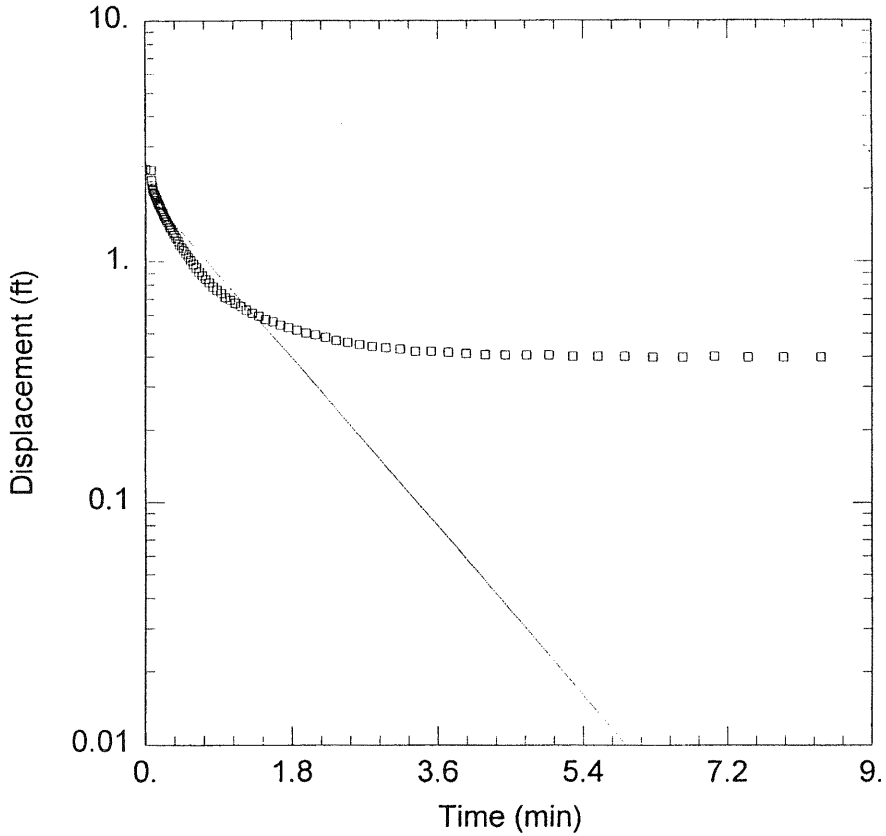
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.1179 ft/min
y0 = 30.17 ft

AQUIFER DATA

Saturated Thickness: 54.3 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 2.2 ft
Casing Radius: 0.0833 ft
Screen Length: 10. ft
Water Column Height: 54.27 ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



WC3-1D

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC3-1D.AQ
Date: 02/01/00 Time: 11:51:51

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: 47FOR98104
Test Location: Stratford, CT
Test Well: WC3-1D
Test Date: 11/18/99

SOLUTION

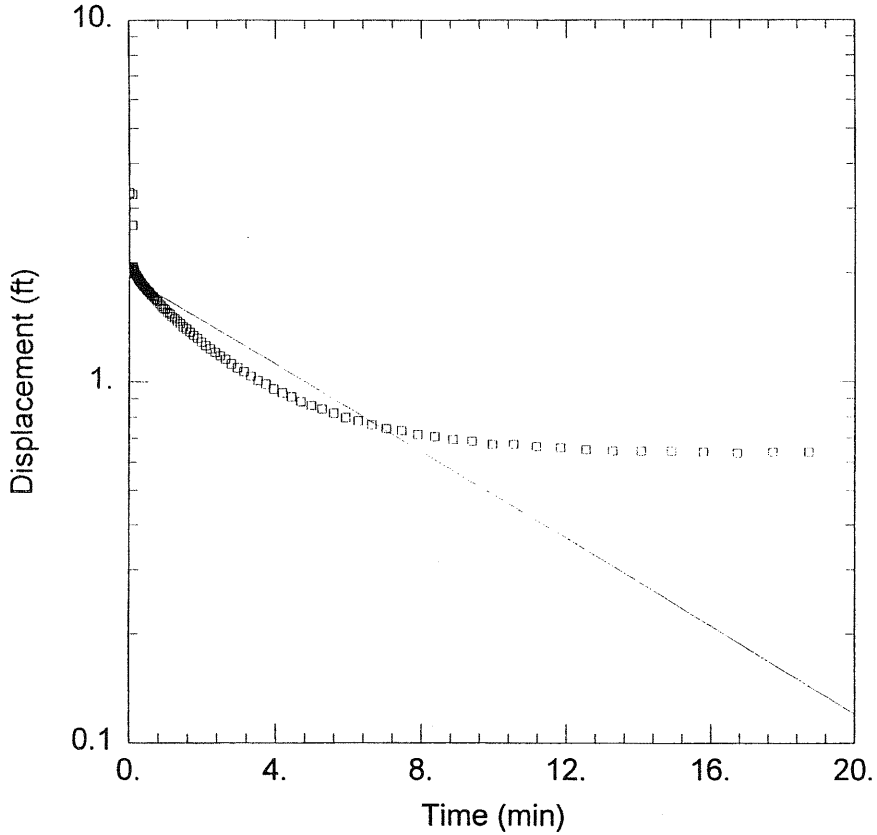
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.002733 ft/min
y0 = 1.958 ft

AQUIFER DATA

Saturated Thickness: 73.22 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 2.4 ft
Casing Radius: 0.0833 ft
Screen Length: 10. ft
Water Column Height: 73.22 ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



WC3-1I

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC3-1I.AQT
Date: 02/01/00 Time: 11:52:11

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: 47FOR98104
Test Location: Stratford, CT
Test Well: WC3-1I
Test Date: 11/18/99

SOLUTION

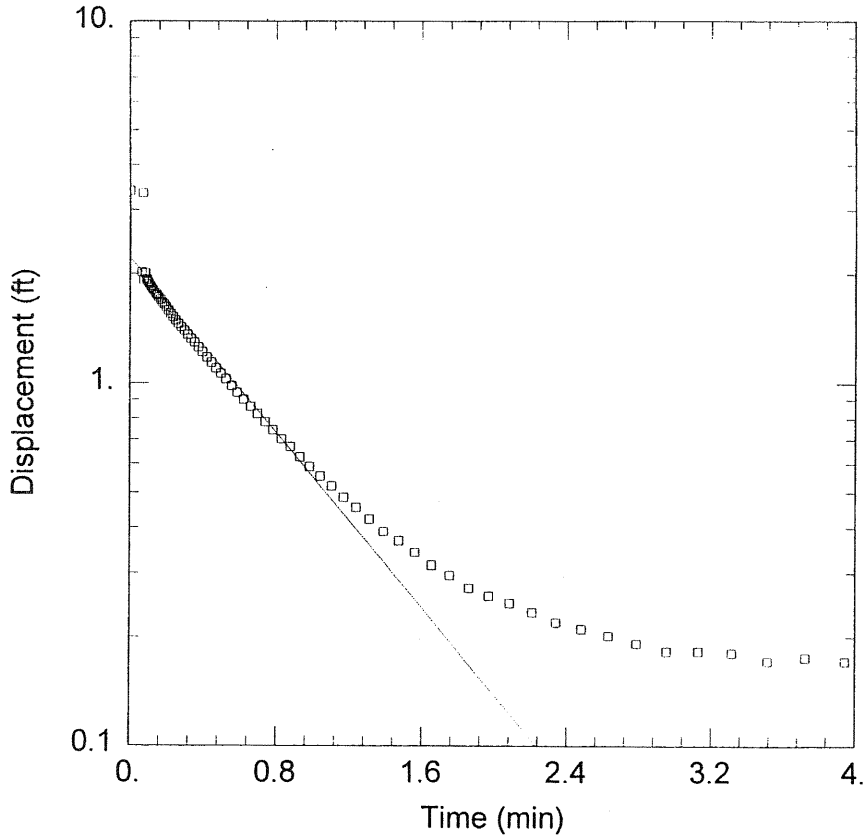
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.0003579 ft/min
y0 = 1.952 ft

AQUIFER DATA

Saturated Thickness: 36. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 3.3 ft
Casing Radius: 0.0833 ft
Screen Length: 10. ft
Water Column Height: 35.22 ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



WC3-2I

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC3-2I.AQT
Date: 02/01/00 Time: 11:57:33

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: 47FOR98104
Test Location: Stratford, CT
Test Well: WC3-2I
Test Date: 11/18/99

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.003774 ft/min
y0 = 2.213 ft

AQUIFER DATA

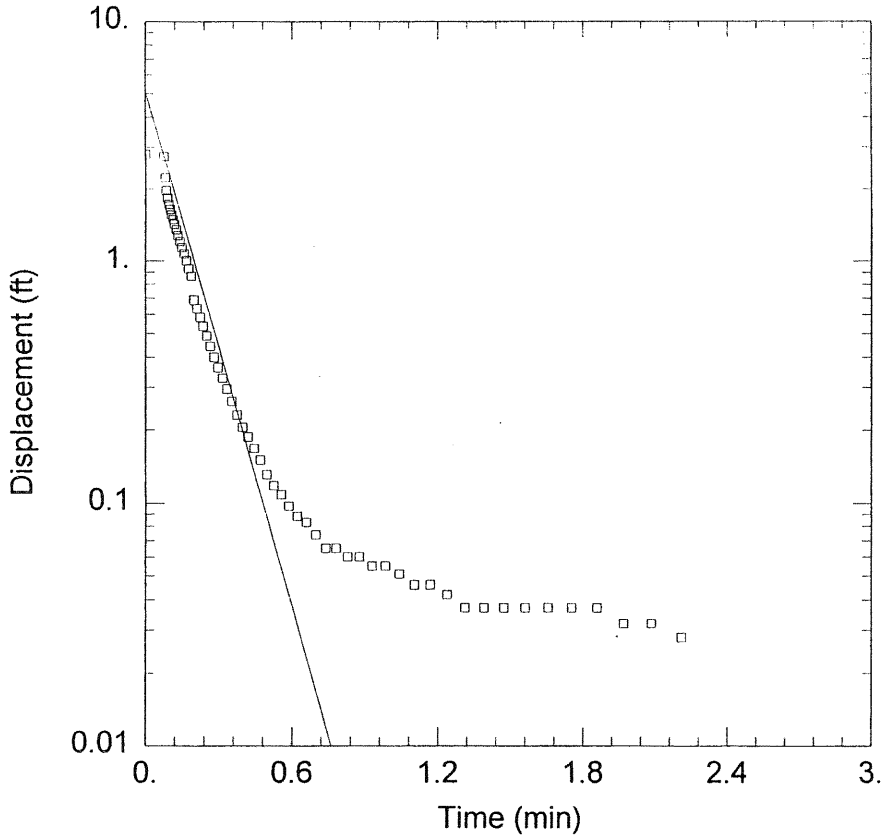
Saturated Thickness: 35.5 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 3.4 ft
Casing Radius: 0.0833 ft
Screen Length: 10. ft

Water Column Height: 35.35 ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



WC3-2D

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC2-3D.AQ
Date: 02/01/00 Time: 11:50:06

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: 47FOR98104
Test Location: Stratford, CT
Test Well: WC3-2D
Test Date: 11/18/99

SOLUTION

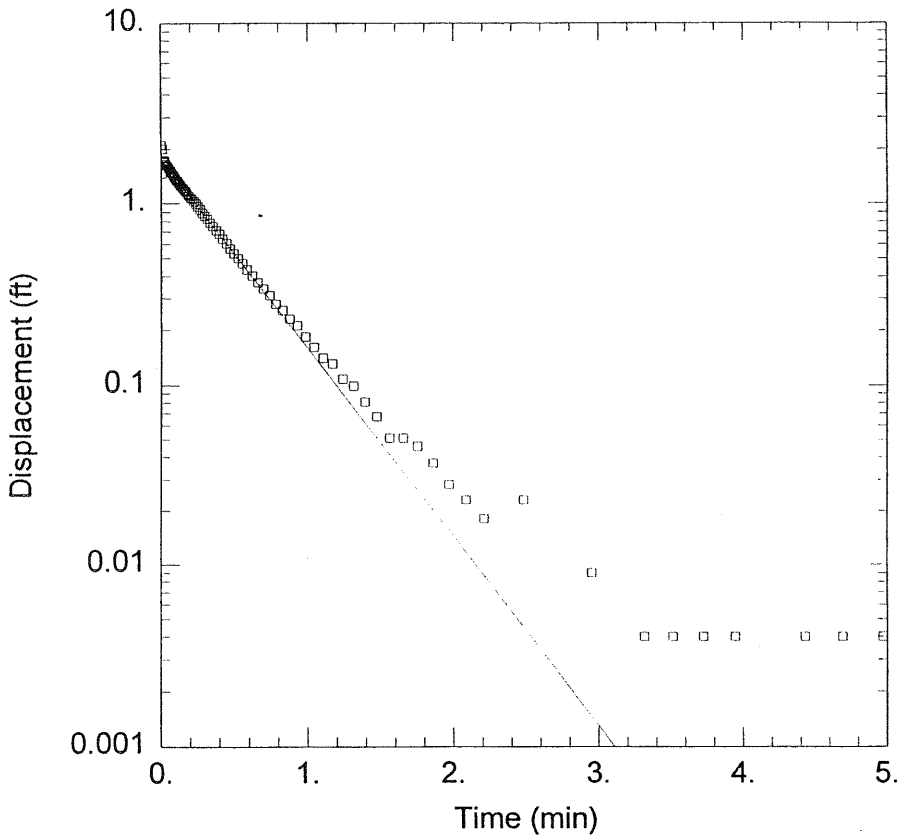
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.02256 ft/min
y0 = 5.121 ft

AQUIFER DATA

Saturated Thickness: 59. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 2.8 ft
Casing Radius: 0.0833 ft
Screen Length: 10. ft
Water Column Height: 58.27 ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



WC5-1D

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC5-1D.AQ
Date: 02/01/00 Time: 11:53:11

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: 47FOR98104
Test Location: Stratford, CT
Test Well: WC5-1D
Test Date: 11/15/99

SOLUTION

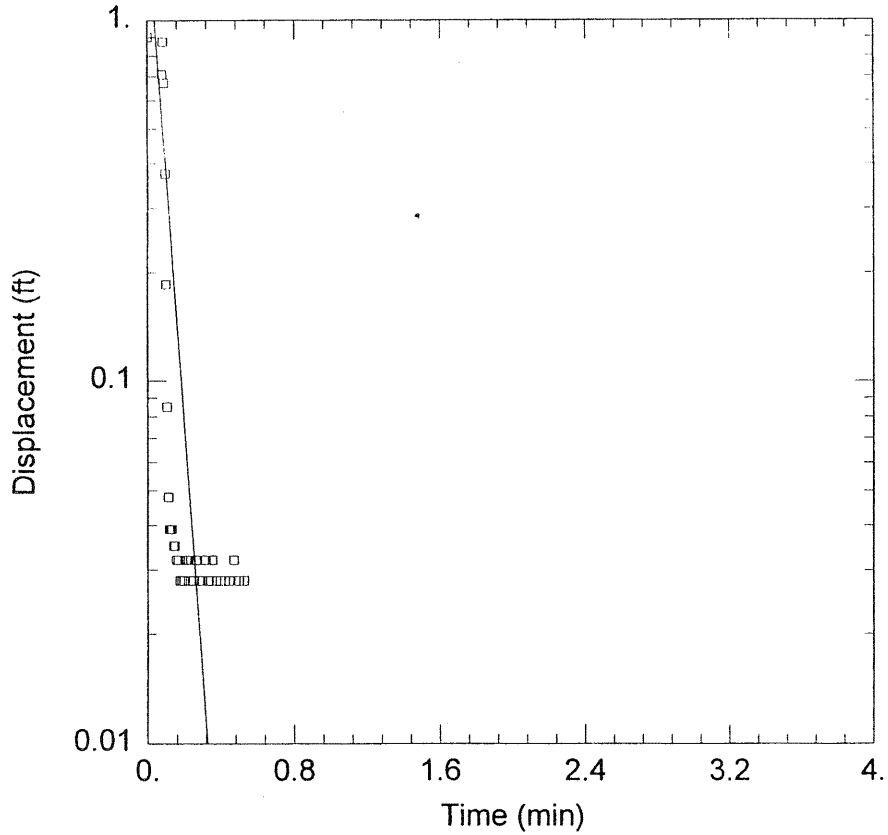
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.00745 ft/min
y0 = 1.753 ft

AQUIFER DATA

Saturated Thickness: 79.1 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 2.1 ft
Casing Radius: 0.0833 ft
Screen Length: 10. ft
Water Column Height: 79.1 ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



WC5-1S

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC5-1S.AQ
Date: 02/01/00 Time: 11:53:26

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: 47FOR89104
Test Location: Stratford, CT
Test Well: WC5-1S
Test Date: 11/19/99

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.03496 ft/min
y0 = 1.875 ft

AQUIFER DATA

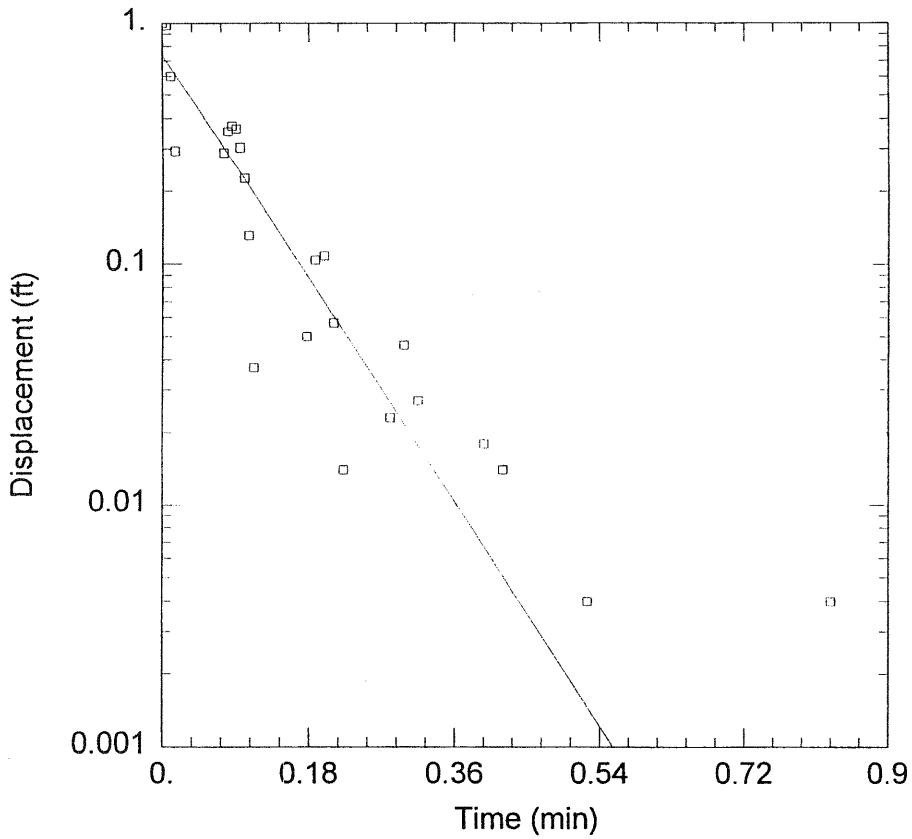
Saturated Thickness: 9.1 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 0.9 ft
Casing Radius: 0.0833 ft
Screen Length: 10. ft

Water Column Height: 9.03 ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



WC5-2I

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC5-2I.AQT
Date: 02/01/00 Time: 11:53:45

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: 47FOR98104
Test Location: Stratford, CT
Test Well: WC5-2I
Test Date: 11/17/99

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.03054 ft/min
y0 = 0.7352 ft

AQUIFER DATA

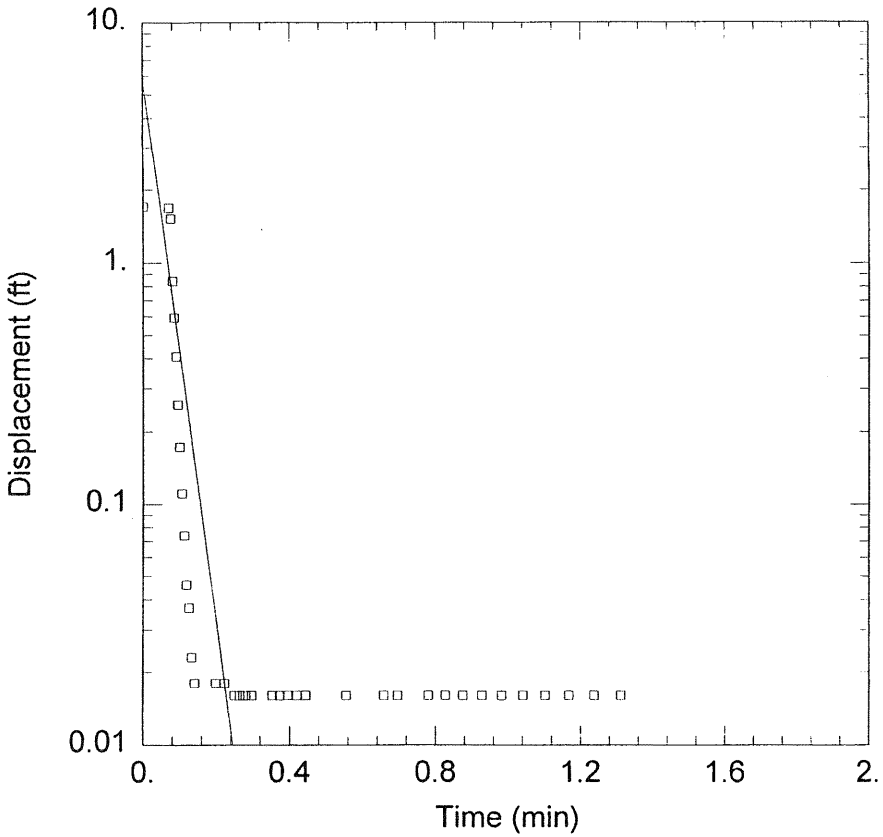
Saturated Thickness: 35. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 1. ft
Casing Radius: 0.083 ft
Screen Length: 10. ft

Water Column Height: 34.39 ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



WC5-2S

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC5-2S.AQ
Date: 02/01/00 Time: 11:53:59

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: 47FOR98104
Test Location: Stratford, CT
Test Well: WC5-2S
Test Date: 11/19/99

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.04971 ft/min
y0 = 5.719 ft

AQUIFER DATA

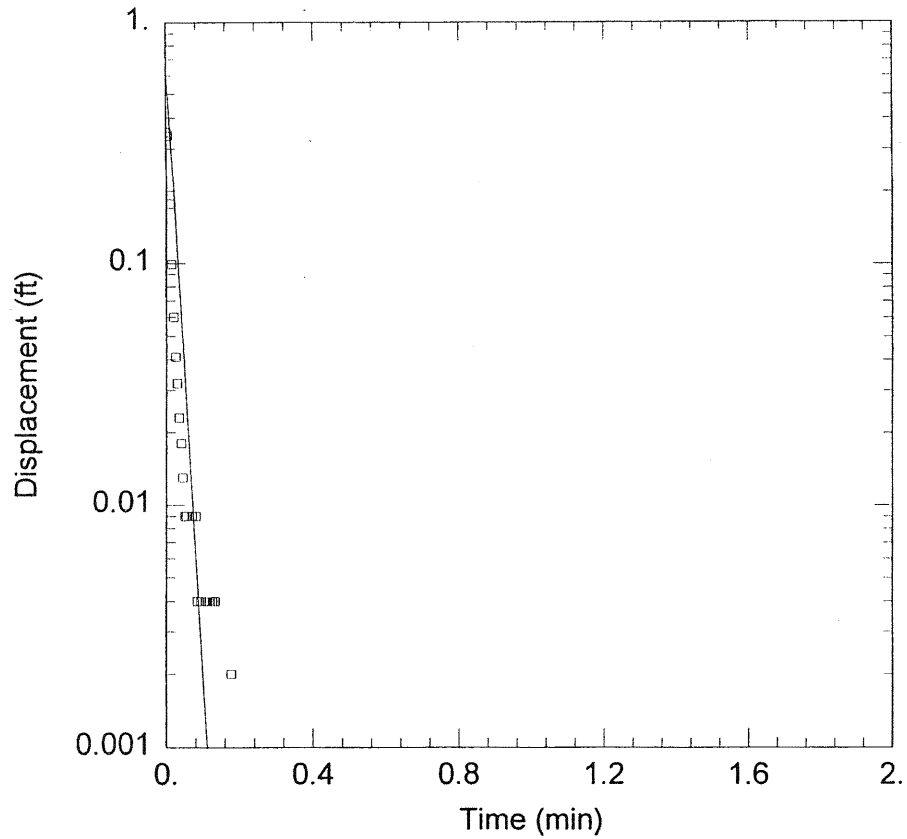
Saturated Thickness: 6.5 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 1.7 ft
Casing Radius: 0.0833 ft
Screen Length: 10. ft

Water Column Height: 6.13 ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



WC5-3S

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC5-3S.AQ
Date: 02/01/00 Time: 11:54:35

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: 47FOR98104
Test Location: Stratford, CT
Test Well: WC5-3S
Test Date: 11/17/99

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.1181 ft/min
y0 = 0.6432 ft

AQUIFER DATA

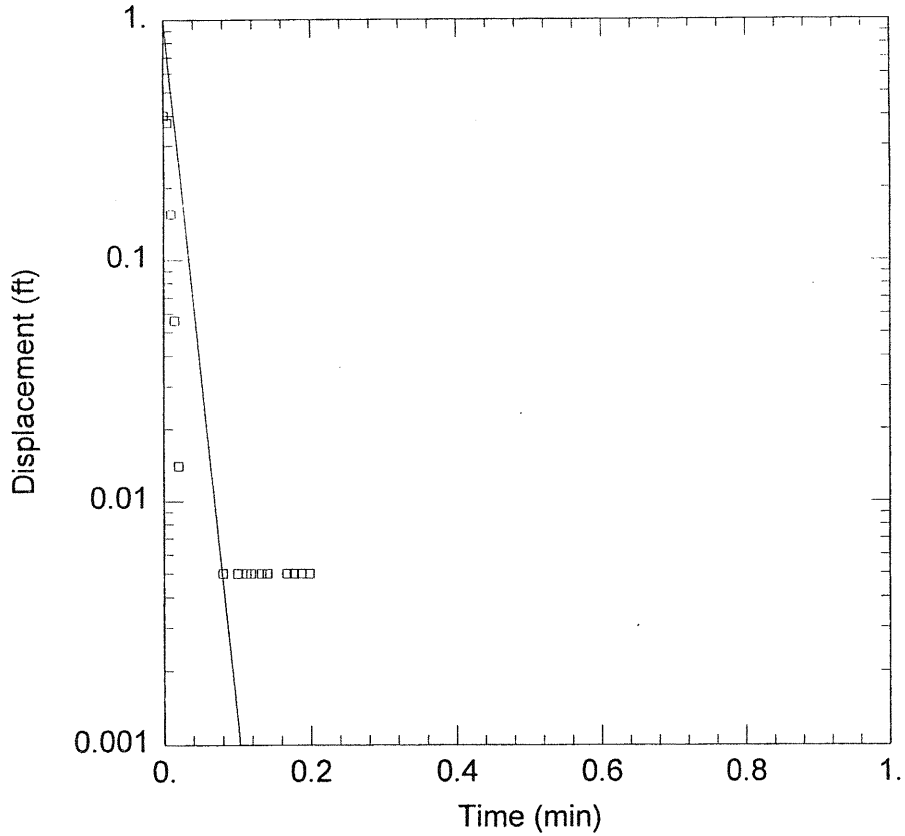
Saturated Thickness: 7. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 0.35 ft
Casing Radius: 0.083 ft
Screen Length: 10. ft

Water Column Height: 6.89 ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



WC6-1I

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Date: 02/01/00 Time: 11:54:51

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: 47FOR98104
Test Location: Stratford, CT
Test Well: WC6-1I
Test Date: 11/17/99

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.1876 ft/min
y0 = 0.981 ft

AQUIFER DATA

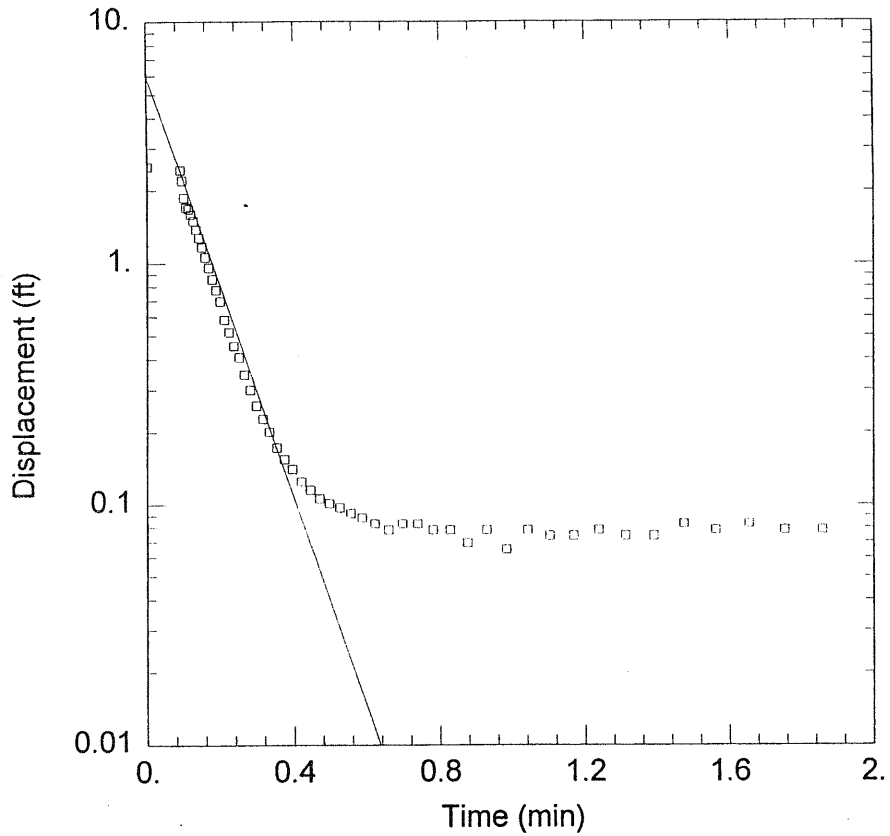
Saturated Thickness: 45. ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 0.4 ft
Casing Radius: 0.083 ft
Screen Length: 10. ft

Water Column Height: 44.87 ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35



WC9-D2

Data Set: I:\PROJECTS\K9716-~1\HYDRO\SLUGTE~1\WC9-D2.AQ
Date: 02/01/00 Time: 11:55:05

PROJECT INFORMATION

Company: URS Greiner Woodward Clyde
Client: Stratford Army Engine Plant
Project: 47FOR98104
Test Location: Stratford, CT
Test Well: WC9-D2
Test Date: 11/18/99

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.03363 ft/min
y0 = 5.935 ft

AQUIFER DATA

Saturated Thickness: 150. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 2.5 ft
Casing Radius: 0.0833 ft
Screen Length: 10. ft
Water Column Height: 150. ft
Wellbore Radius: 0.166 ft
Gravel Pack Porosity: 0.35

I-2

HARDING ESE HYDRAULIC CONDUCTIVITY TESTING DATA

Harding ESE
A MACTEC COMPANY

TECHNICAL MEMORANDUM

DATE: May 29, 2002

PROJECT: Stratford Army Engine Plant, Stratford, Connecticut

SUBJECT: Permeability Testing Results

INTRODUCTION

Harding ESE, a MACTEC Company (Harding ESE), conducted permeability testing in support of the Stratford Army Engine Plant (SAEP) Supplemental Remedial Investigation (RI) field program. The objective of the permeability testing is to provide supplemental hydrogeologic data for the overburden aquifer. Permeability testing was conducted on May 6th and May 7th, 2002 in accordance with the Revised Draft RI Work Plan (Harding ESE, March, 2002).

SCOPE OF WORK

Twenty monitoring locations were scheduled for permeability testing at SAEP (Table 1). All but one (PZ-TF-03A) of these locations was conducive to permeability testing. PZ-TF-03A could not be tested due to physical access issues.

FIELD PROCEDURES AND METHODOLOGY

Permeability testing was conducted with an In-situ® Hermit 1000 data logger equipped with a 20 psi transducer, a water level meter, and a 5-foot long, 1-inch diameter, solid HDPE slug. In-situ rising head permeability tests were performed on all monitoring wells and piezometers. The general procedure for permeability testing at SAEP was as follows:

1. Open well head or piezometer
2. Record water level and other pertinent well characteristics and features
3. Install 20 psi transducer approximately 10 feet below the water table
4. Install slug approximately 3 below the static water table
5. Allow water level to reach equilibrium or 90% recovery (in most instances recovery occurred in less than 2 minutes)
6. Start Hermit 1000 data logger test then immediately remove slug from well
7. Allow Hermit 1000 data logger to log data to log cycle 3 (approximately 3 minutes)
8. Check water level; if 90% recovery achieved then end test

9. Decontaminate transducer, wireline, slug, and water level meter
10. Secure wellhead or piezometer

Displacement data was downloaded from the Hermit 1000 using manufacturers software. Displacement data was processed and analyzed using Aqtesolv v.2.50.002. Sensitivity analysis was conducted on four wells spanning four different depth intervals within the overburden aquifer. Comparison of hydraulic conductivities calculated under confined and unconfined condition solutions were within less than 5 feet per day. Aquifer properties were estimated using the straight-line method solutions of Hvorslev (1951) and Bouwer and Rice (1976). Computations and curve fit solutions are presented as Attachment A.

PERMEABILITY TESTING RESULTS

Table 1 provides a listing of wells and piezometers and corresponding permeability test results. Table 1 also includes pertinent well information and a summary of hydraulic conductivity information. Estimated permeabilities ranged from 6.8 to 331.1 feet per day (or 2.4E-03 to 1.2E-01 cm/sec) for all monitoring points installed in the overburden aquifer. The average of both Bouwer and Rice and Hvorslev method results ranged between 7.7 and 318 feet per day (or 2.7E-03 and 1.1E-01 cm/sec).

Table 2 provides a listing of permeability testing results by hydrostratigraphic unit. Three hydrostratigraphic units have been defined at the site and include: 1) estuarine silt, 2) reworked glacial outwash, and 3) glacial outwash. The geometric means of hydraulic conductivities for all hydrostratigraphic units range between 22.7 and 27.5 feet per day (see Table 2). The hydraulic conductivity of the estuarine silt may be an order of magnitude lower, since only two installations were tested in this interval, and the average hydraulic conductivity calculated for PZ-TF-08A appears high for silt. Also, PZ-TF-10B, HESE-01-18D, and PZ-TF-03B (located between the Dike structure and the Housatonic River) span the reworked glacial outwash exhibit the highest average hydraulic conductivities between 100 and 318 feet per day.

TABLE 1
PERMEABILITY TESTING RESULTS

STRATFORD ARMY ENGINE PLANT
STRATFORD, CT

							Bouwer and Rice		Hvorslev		Average of Method Results		
LOCATION ID	WELL RISER MATERIAL	SCREEN SLOT SIZE	WELL DIAM. (IN)	SCREEN TOP (FT,BGS)	SCREEN BOTTOM (FT,BGS)	SCREEN LENGTH (FT)	Hydraulic Conductivity (FT/DAY)	Hydraulic Conductivity (CM/SEC)	Hydraulic Conductivity (FT/DAY)	Hydraulic Conductivity (CM/SEC)	Hydraulic Conductivity (FT/DAY)	Hydraulic Conductivity (CM/SEC)	Comments
PZ-TF-03A	SCH 40 PVC	0.01	1.5	4	14	10	NA	NA	NA	NA	NA	NA	Could not be tested due to access issues
PZ-TF-07A	SCH 40 PVC	0.01	1.5	4	14	10	6.8	2.4E-03	9.4	3.3E-03	8.1	2.9E-03	
PZ-TF-08A	SCH 40 PVC	0.01	1.5	4	14	10	65.8	2.3E-02	94.4	3.3E-02	80.1	2.8E-02	Flowing artesian approx 0.25 gpm
HESE-01-17I	SCH 40 PVC	0.01	2	17.6	27.6	10	19.2	6.8E-03	29.4	1.0E-02	24.3	8.6E-03	
HESE-01-07I	SCH 40 PVC	0.01	2	19.7	29.7	10	37.0	1.3E-02	53.9	1.9E-02	45.5	1.6E-02	
HESE-01-16I	SCH 40 PVC	0.01	2	23.9	33.9	10	15.5	5.5E-03	23.2	8.2E-03	19.4	6.8E-03	
HESE-01-12I	SCH 40 PVC	0.01	2	34.4	44.4	10	16.4	5.8E-03	24.3	8.6E-03	20.4	7.2E-03	
HESE-01-14I	SCH 40 PVC	0.01	2	36.9	46.9	10	6.8	2.4E-03	8.5	3.0E-03	7.7	2.7E-03	
PZ-TF-01B	SCH 40 PVC	0.01	1.5	38	48	10	33.9	1.2E-02	44.0	1.6E-02	39.0	1.4E-02	
PZ-TF-03B	SCH 40 PVC	0.01	1.5	38	48	10	304.5	1.1E-01	331.3	1.2E-01	317.9	1.1E-01	Flowing artesian approx 2gpm
PZ-TF-06B	SCH 40 PVC	0.01	1.5	38	48	10	11.4	4.0E-03	12.5	4.4E-03	12.0	4.2E-03	
PZ-TF-07B	SCH 40 PVC	0.01	1.5	38	48	10	38.7	1.4E-02	53.0	1.9E-02	45.9	1.6E-02	
PZ-TF-10B	SCH 40 PVC	0.01	1.5	38	48	10	91.7	3.2E-02	108.3	3.8E-02	100.0	3.5E-02	
HESE-01-18D	SCH 40 PVC	0.01	2	38.9	48.9	10	213.1	7.5E-02	208.3	7.3E-02	210.7	7.4E-02	
HESE-01-10D	SCH 40 PVC	0.01	2	101.5	111.5	10	16.6	5.9E-03	15.9	5.6E-03	16.3	5.7E-03	
HESE-01-09D	SCH 40 PVC	0.01	2	102.3	112.3	10	29.6	1.0E-02	28.2	9.9E-03	28.9	1.0E-02	
HESE-01-17D	SCH 40 PVC	0.01	2	112.3	122.3	10	31.2	1.1E-02	32.2	1.1E-02	31.7	1.1E-02	Oscillations during recovery
HESE-01-07D	SCH 40 PVC	0.01	2	119.25	129.25	10	59.2	2.1E-02	59.2	2.1E-02	59.2	2.1E-02	
HESE-01-12D	SCH 40 PVC	0.01	2	145.8	155.8	10	26.7	9.4E-03	29.7	1.0E-02	28.2	9.9E-03	
HESE-01-05D	SCH 40 PVC	0.01	2	158	168	10	18.5	6.5E-03	16.1	5.7E-03	17.3	6.1E-03	Static water level oscillations <0.1 ft, oscillations during recovery
						Min/Max	6.8/305	2.4E-03/1.1E-1	8.5/331	3.0E-03/1.2E-01	7.65/318	2.7E-03/1.1E-01	

TABLE 2
PERMEABILITY TESTING RESULTS BY HYDROSTRATIGRAPHIC UNIT

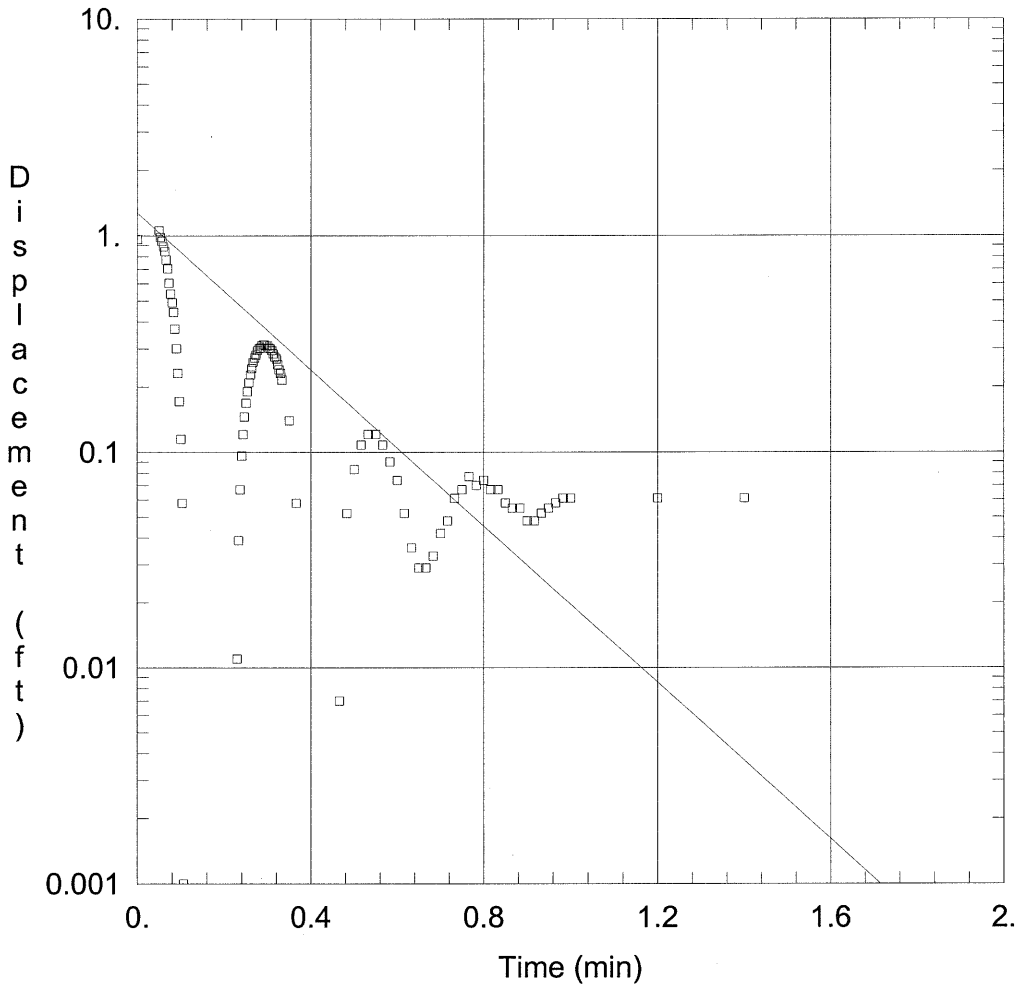
STRATFORD ARMY ENGINE PLANT
STRATFORD,CT

LOCATION ID	SCREEN TOP (FT,BGS)	SCREEN BOTTOM (FT,BGS)	HYDROSTRATIGRAPHIC UNIT	AVERAGE[1] HYDRAULIC CONDUCTIVITY (FT/DAY)	GEOMETRIC MEAN OF HYDRAULIC CONDUCTIVITY VALUES (FT/DAY)
PZ-TF-07A	4	14	Estuarine Silt	8.1	
PZ-TF-08A	4	14	Estuarine Silt	80.1	25.5
HESE-01-14I	36.9	46.9	Reworked Glacial Outwash	7.7	
PZ-TF-06B	38	48	Reworked Glacial Outwash	12.0	
HESE-01-16I	23.9	33.9	Reworked Glacial Outwash	19.4	
HESE-01-12I	34.4	44.4	Reworked Glacial Outwash	20.4	
HESE-01-17I	17.6	27.6	Reworked Glacial Outwash	24.3	
PZ-TF-01B	38	48	Reworked Glacial Outwash	39.0	
HESE-01-07I	19.7	29.7	Reworked Glacial Outwash	45.5	
PZ-TF-07B	38	48	Reworked Glacial Outwash	45.9	22.7
PZ-TF-10B	38	48	Reworked Glacial Outwash	100	
HESE-01-18D	38.9	48.9	Reworked Glacial Outwash	211	
PZ-TF-03B	38	48	Reworked Glacial Outwash	318	189
HESE-01-10D	101.5	111.5	Glacial Outwash	16.3	
HESE-01-05D	158	168	Glacial Outwash	17.3	
HESE-01-12D	145.8	155.8	Glacial Outwash	28.2	
HESE-01-09D	102.3	112.3	Glacial Outwash	28.9	
HESE-01-17D	112.3	122.3	Glacial Outwash	31.7	
HESE-01-07D	119.3	129.3	Glacial Outwash	59.2	27.5

Notes: 1) Average of Hvorslev and Bouwer & Rice Analyses

Attachment A

Bouwer and Rice and Hvorslev Curve Fit Solutions



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-05D rev1 hvoslev.aqt
Date: 05/23/02 Time: 12:04:34

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-05D
Test Date: 5/5/02

AQUIFER DATA

Saturated Thickness: 164. ft
Anisotropy Ratio (Kz/Kr): 1.

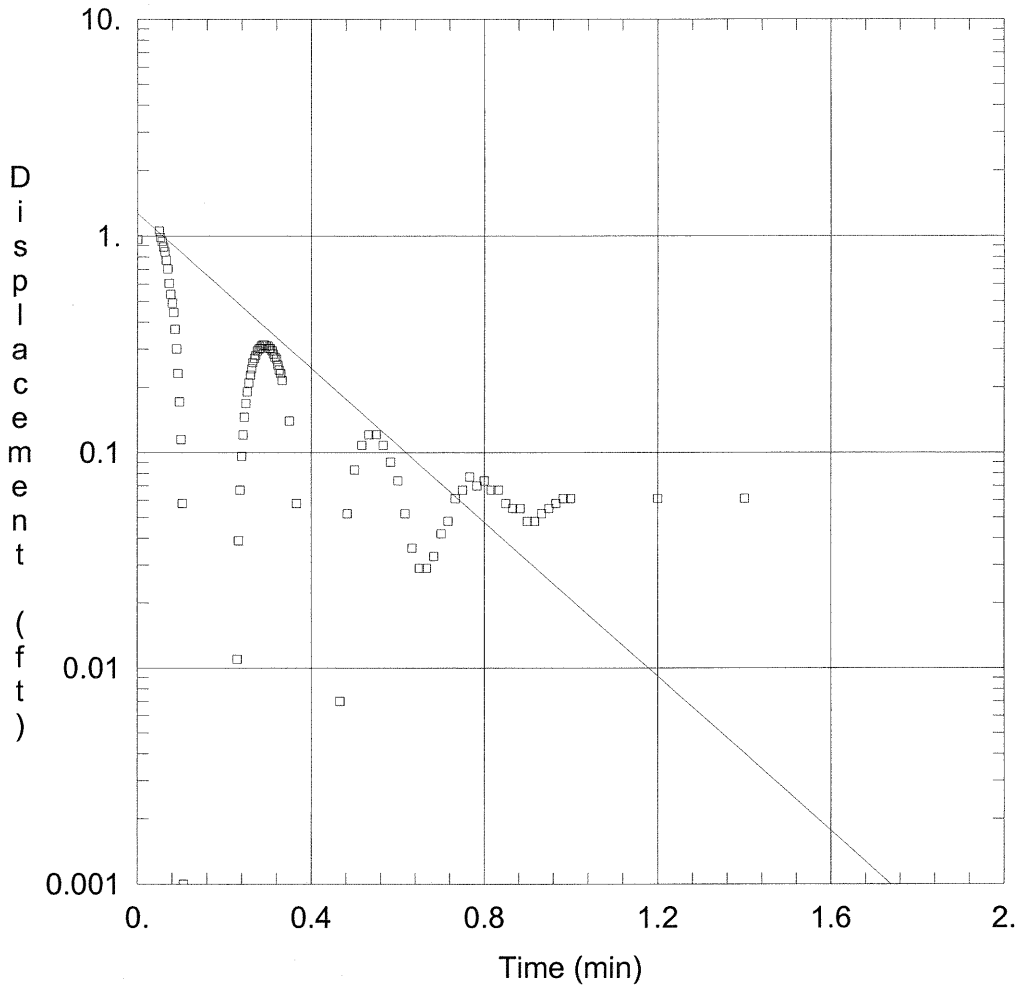
WELL DATA (HESE-01-05D)

Initial Displacement: 0.96 ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 164. ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 16.08 ft/day
y0 = 1.273 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-05D rev1 bower rice.aqt
Date: 05/23/02 Time: 12:03:28

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-05D
Test Date: 5/5/02

AQUIFER DATA

Saturated Thickness: 164. ft
Anisotropy Ratio (Kz/Kr): 1.

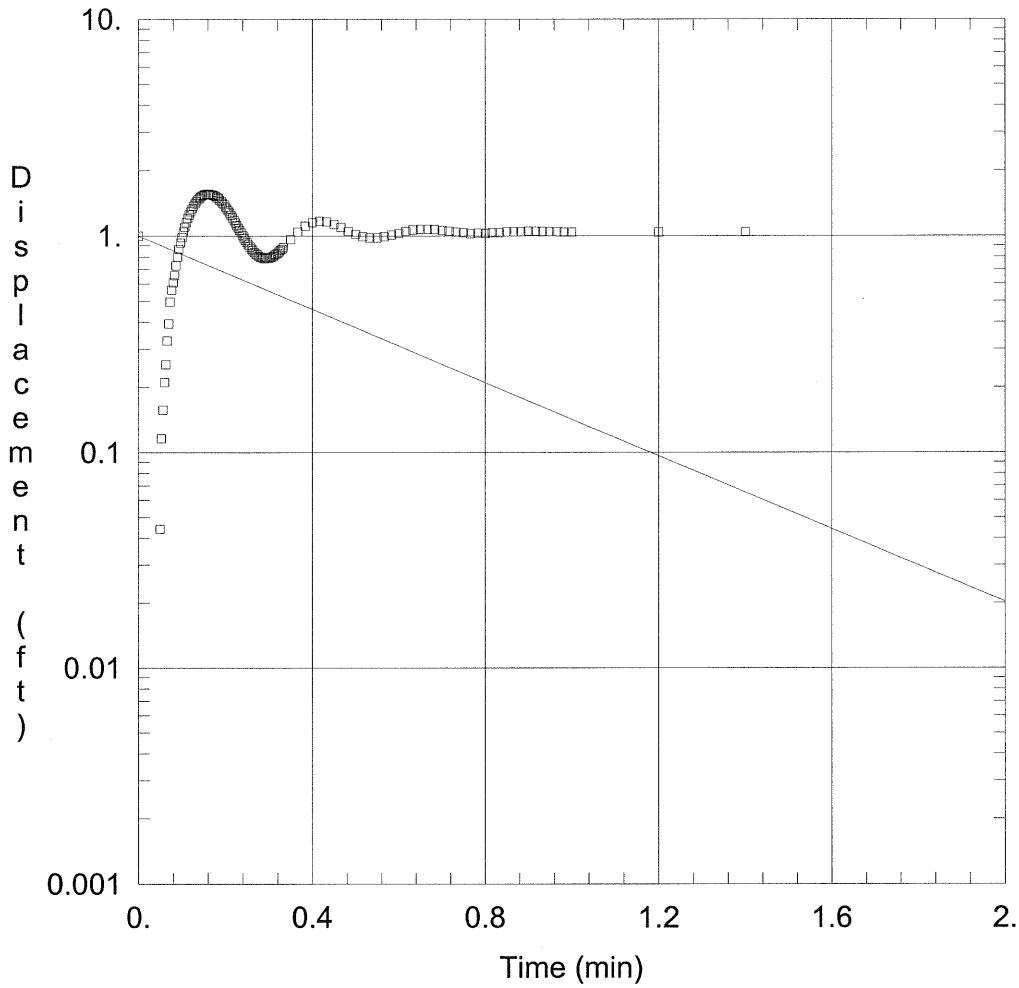
WELL DATA (HESE-01-05D)

Initial Displacement: 0.96 ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 164. ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 18.51 ft/day
y0 = 1.27 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-05D raw.aqt
Date: 05/23/02 Time: 12:05:33

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-05D
Test Date: 5/5/02

AQUIFER DATA

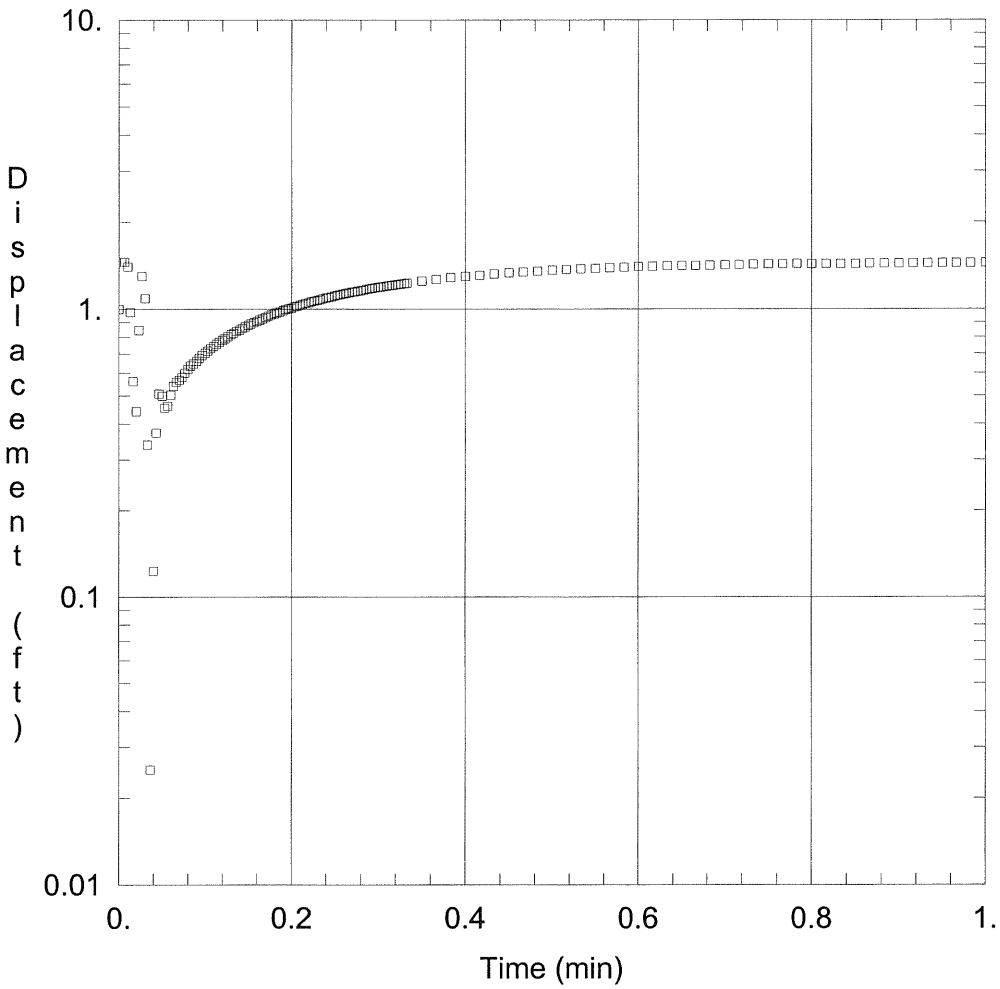
Saturated Thickness: 164. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (HESE-01-05D)

Initial Displacement: 1. ft
Water Column Height: 164. ft
Casing Radius: 0.08 ft
Wellbore Radius: 0.17 ft
Screen Length: 10. ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 8.78 ft/day
y0 = 1. ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-07I raw.aqt
Date: 05/17/02 Time: 12:08:43

PROJECT INFORMATION

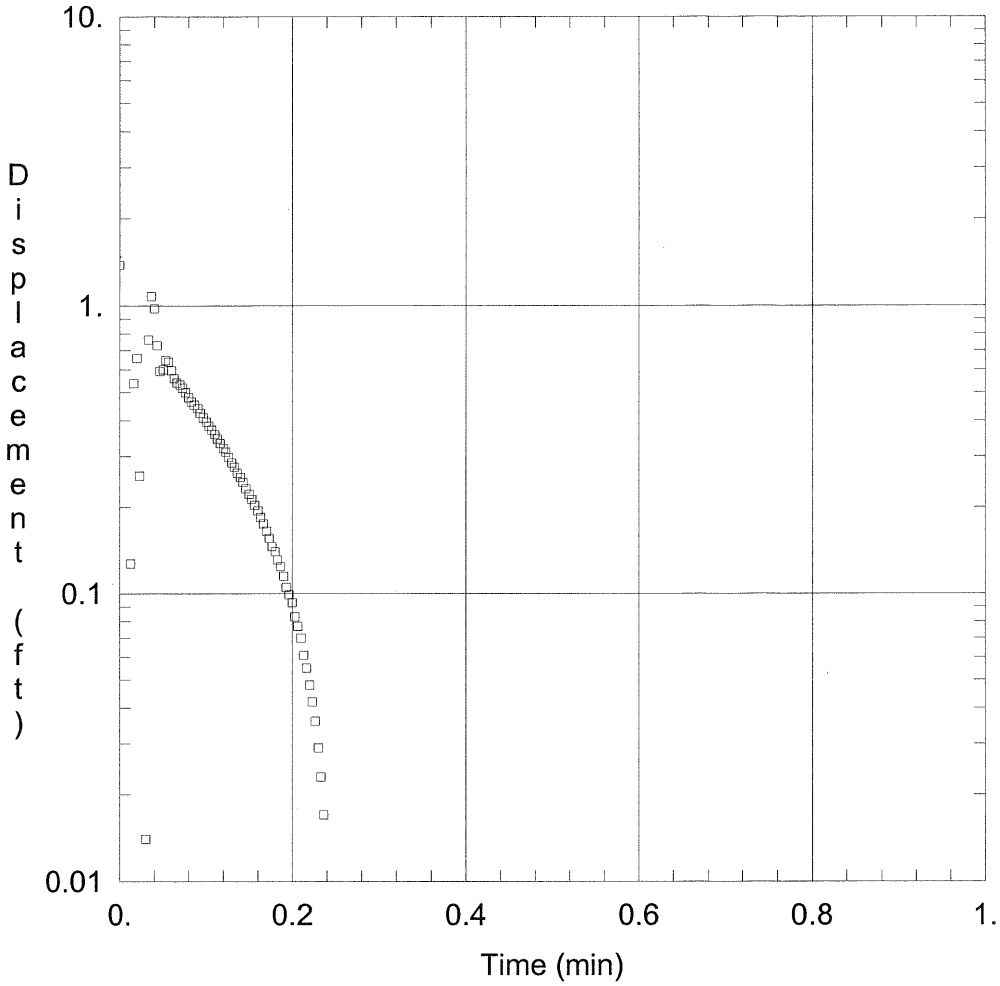
Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-07I
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 125. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (HESE-01-07I)

Initial Displacement: 1. ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 29.7 ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-07I rev1.aqt
Date: 05/17/02 Time: 12:05:27

PROJECT INFORMATION

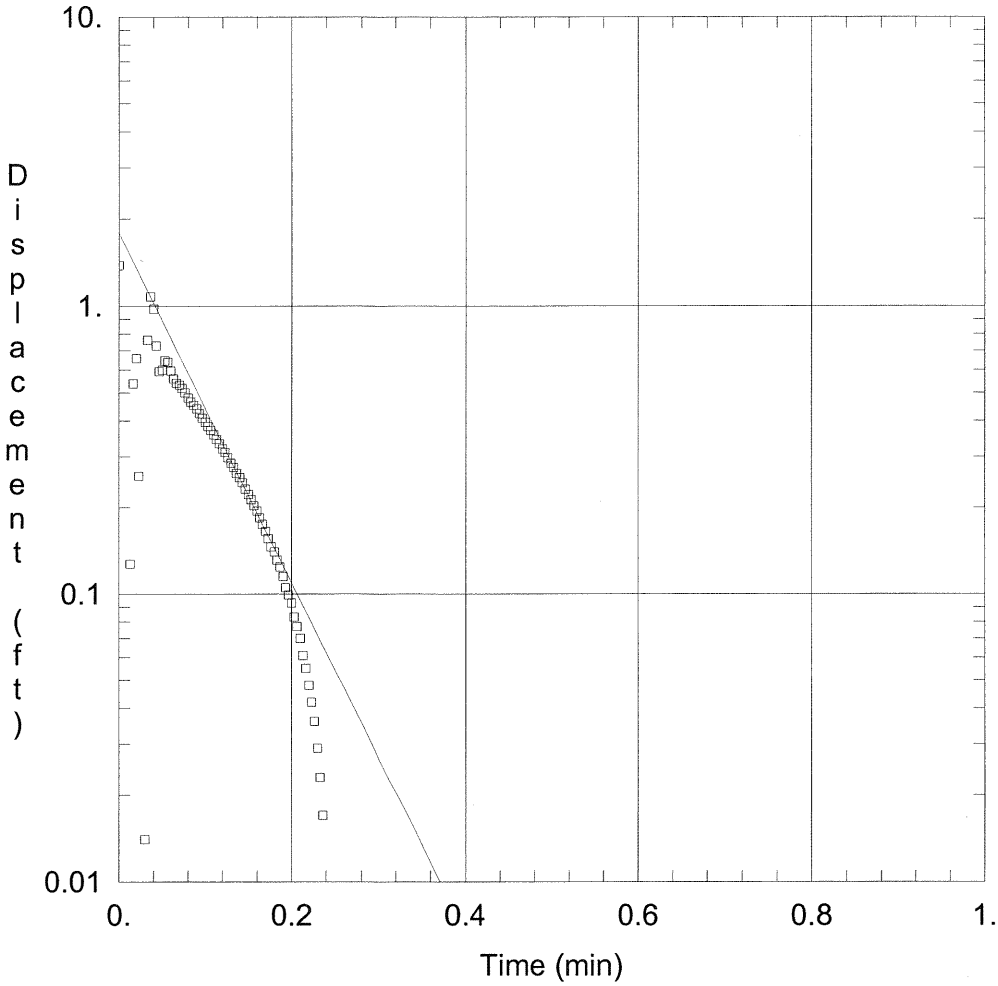
Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-07I
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 125. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (HESE-01-07I)

Initial Displacement: 1.38 ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 29.7 ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-07I rev1 hvorslev.aqt
Date: 05/17/02 Time: 12:06:51

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-07I
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 125. ft
Anisotropy Ratio (Kz/Kr): 1.

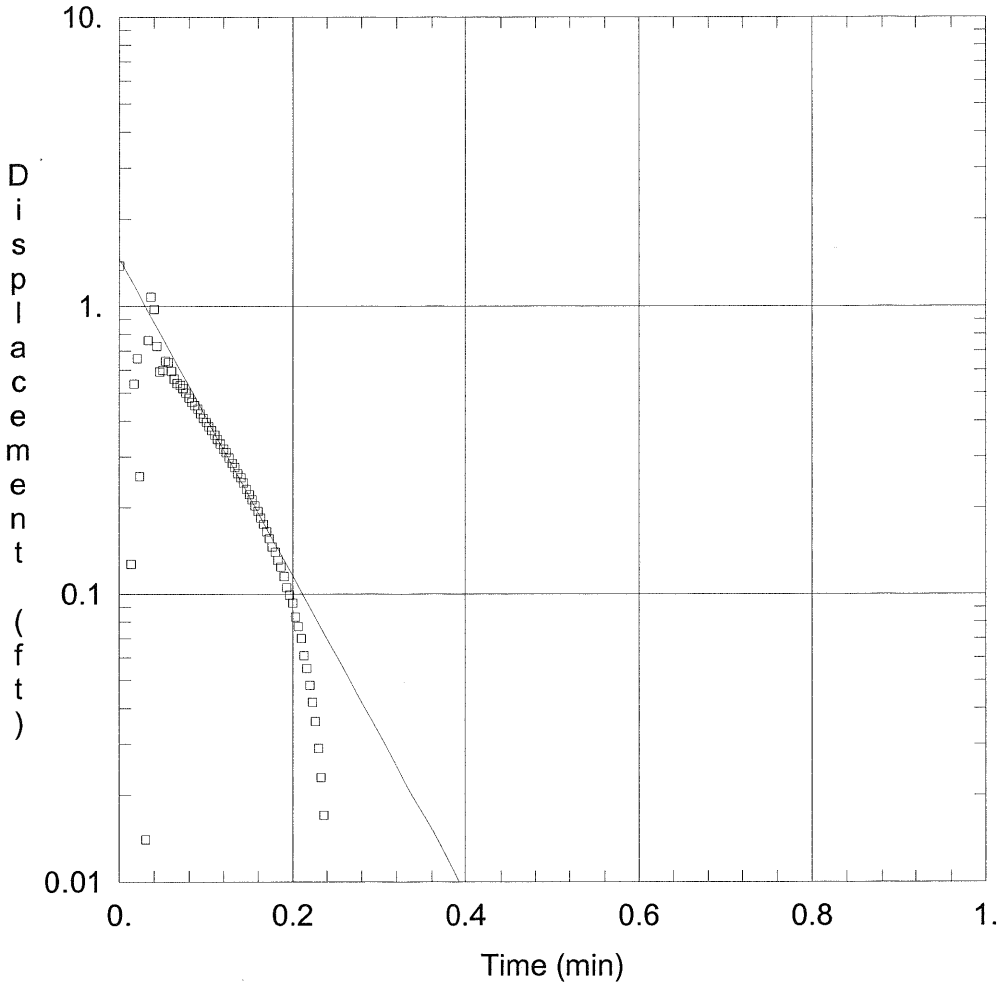
WELL DATA (HESE-01-07I)

Initial Displacement: 1.38 ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 29.7 ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 53.9 ft/day
y0 = 1.787 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-07I rev1 bouwer rice.aqt
Date: 05/17/02 Time: 12:07:47

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-07I
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 125. ft
Anisotropy Ratio (Kz/Kr): 1.

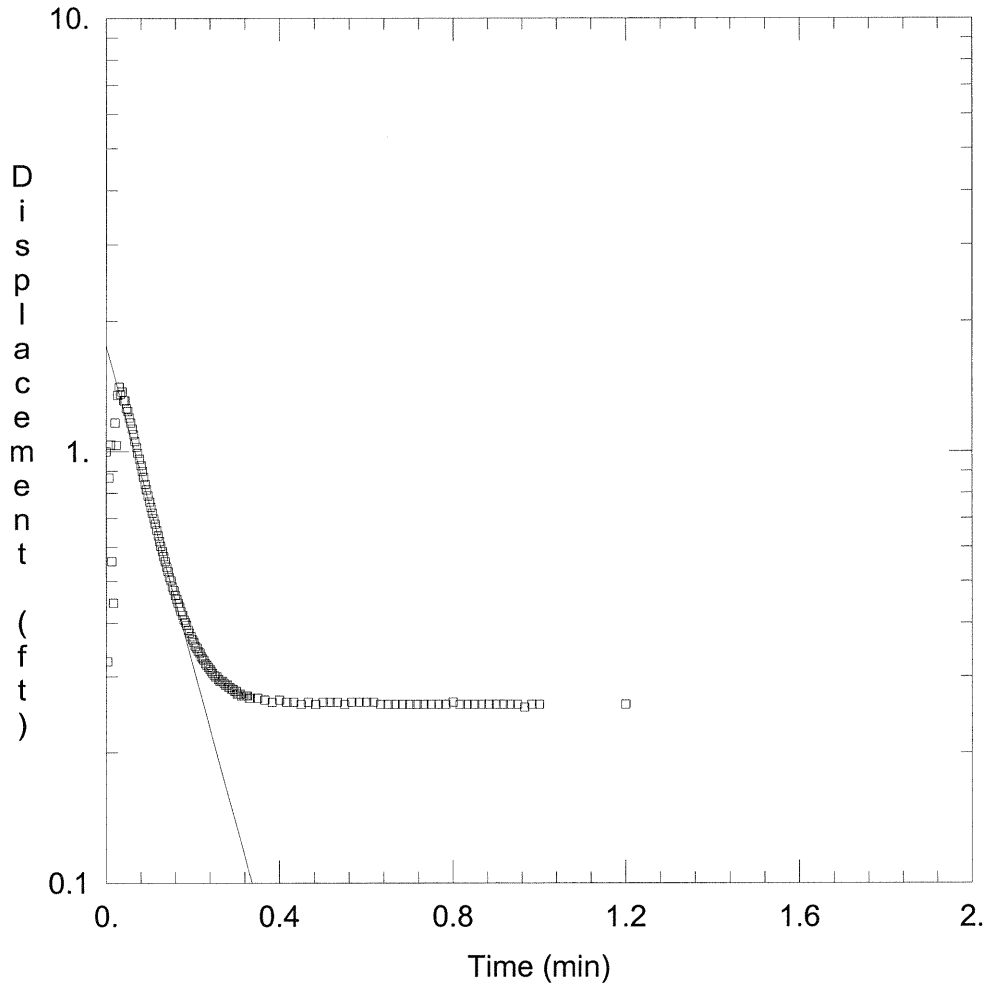
WELL DATA (HESE-01-07I)

Initial Displacement: 1.38 ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 29.7 ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 36.98 ft/day
y0 = 1.456 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-07D raw.aqt
Date: 05/17/02 Time: 12:12:19

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-07D
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 125. ft
Anisotropy Ratio (Kz/Kr): 1.

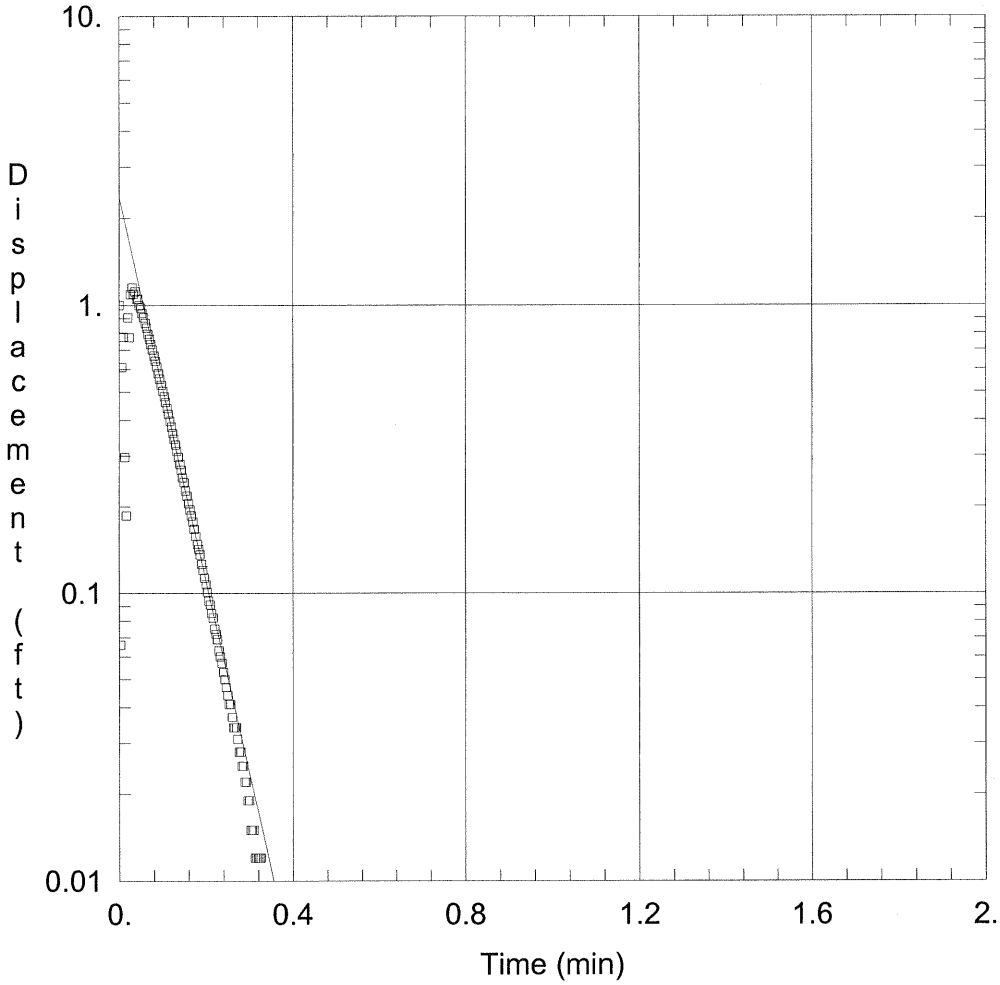
WELL DATA (HESE-01-07D)

Initial Displacement: 1. ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 124.5 ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 34.44 ft/day
y0 = 1.753 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-07D rev1 hvorslev.aqt
Date: 05/17/02 Time: 12:10:29

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-07D
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 125. ft
Anisotropy Ratio (Kz/Kr): 1.

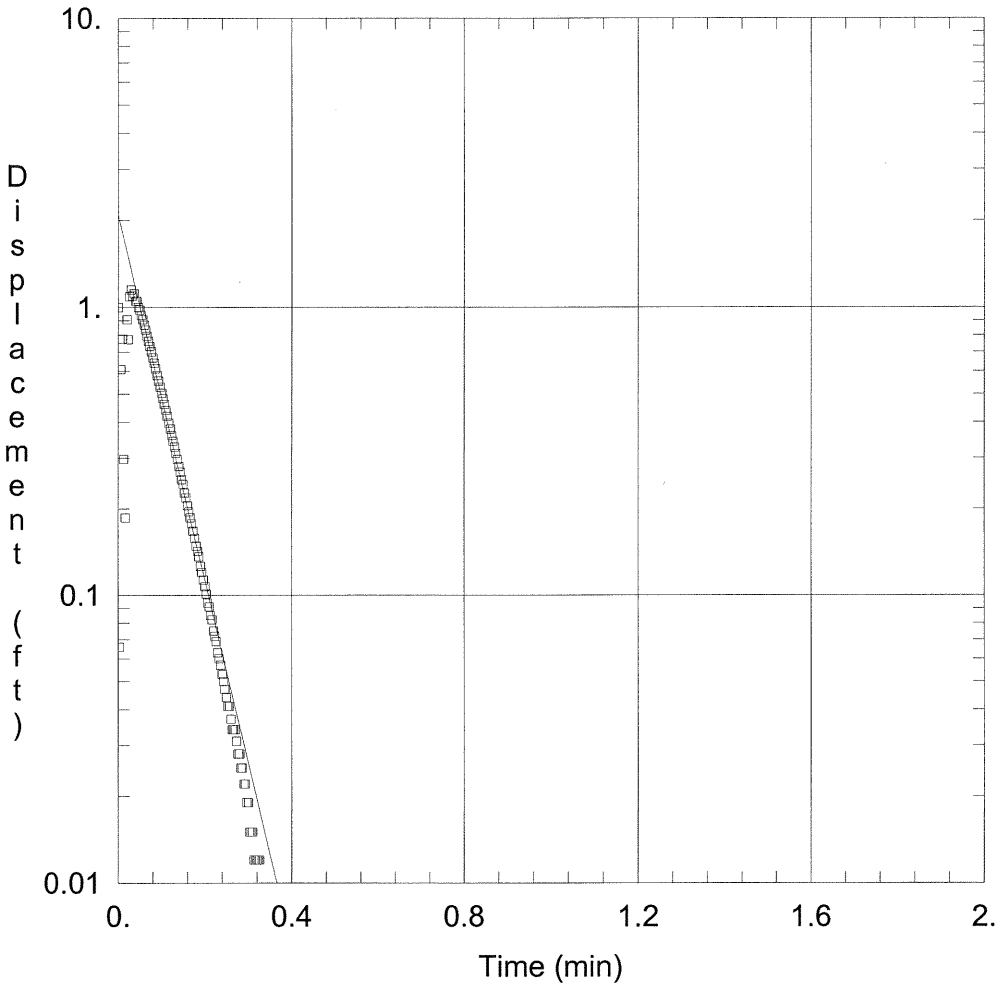
WELL DATA (HESE-01-07D)

Initial Displacement: 1. ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 124.5 ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 59.2 ft/day
y0 = 2.366 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-07D rev1 bouwer rice.aqt
Date: 05/17/02 Time: 12:11:26

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-07D
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 125. ft
Anisotropy Ratio (Kz/Kr): 1.

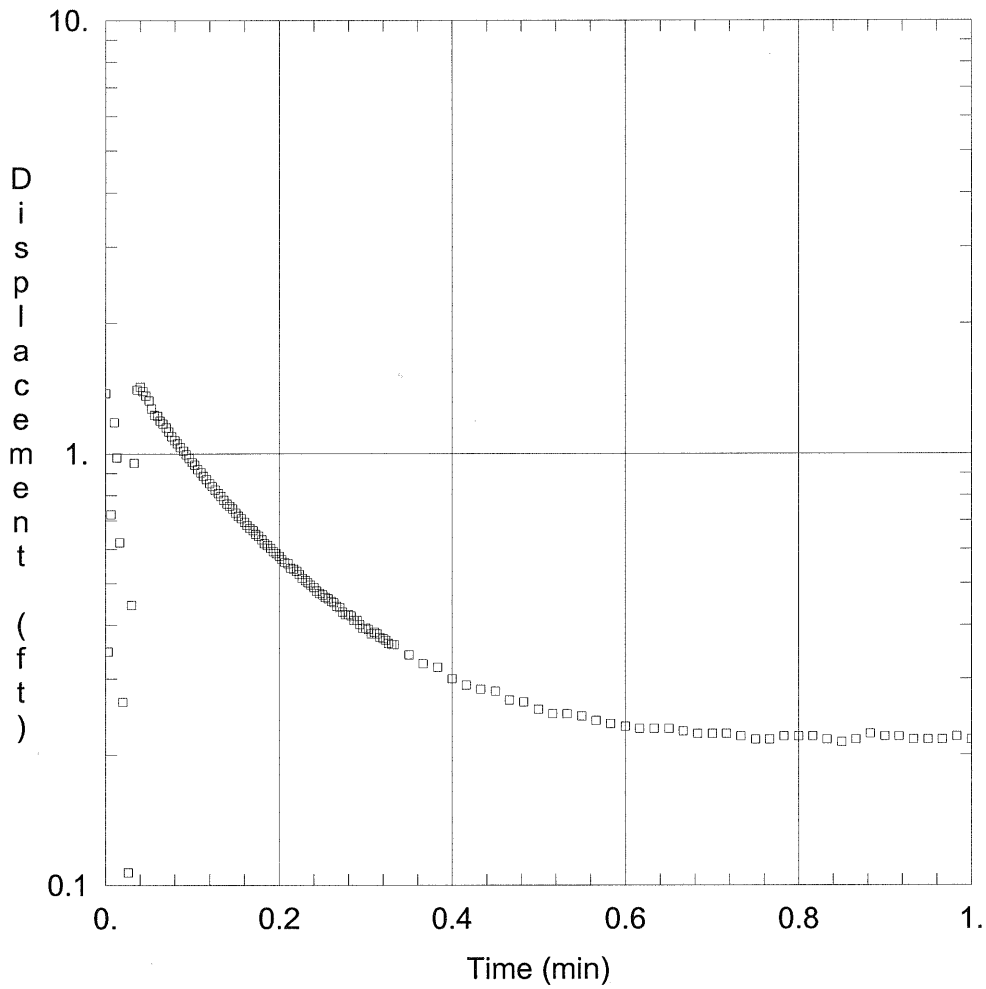
WELL DATA (HESE-01-07D)

Initial Displacement: 1. ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 124.5 ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 59.17 ft/day
y0 = 2.08 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-09D rev1.aqt
Date: 05/17/02 Time: 12:01:37

PROJECT INFORMATION

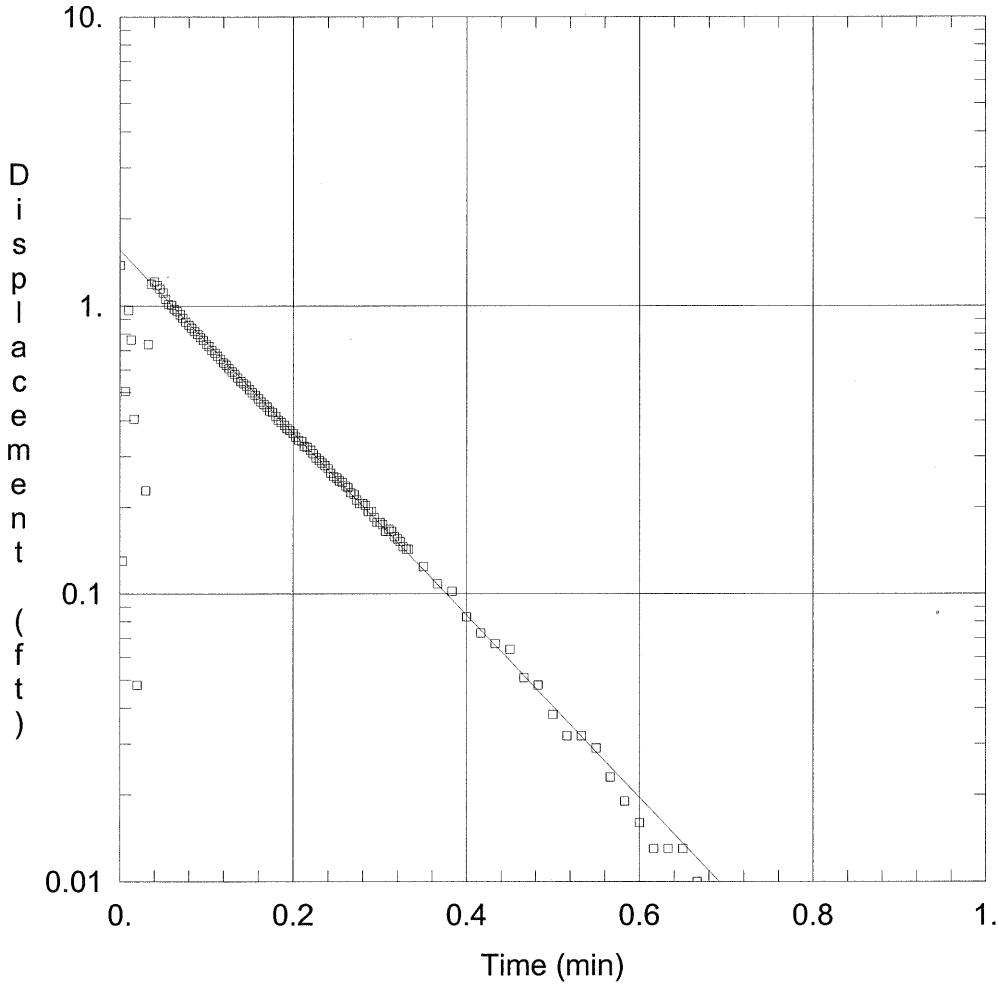
Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-09D
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 108. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (HESE-01-09D)

Initial Displacement: 1.38 ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 107.5 ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-09D rev1 hvorslev.aqt
Date: 05/17/02 Time: 12:02:36

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-09D
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 108. ft
Anisotropy Ratio (Kz/Kr): 1.

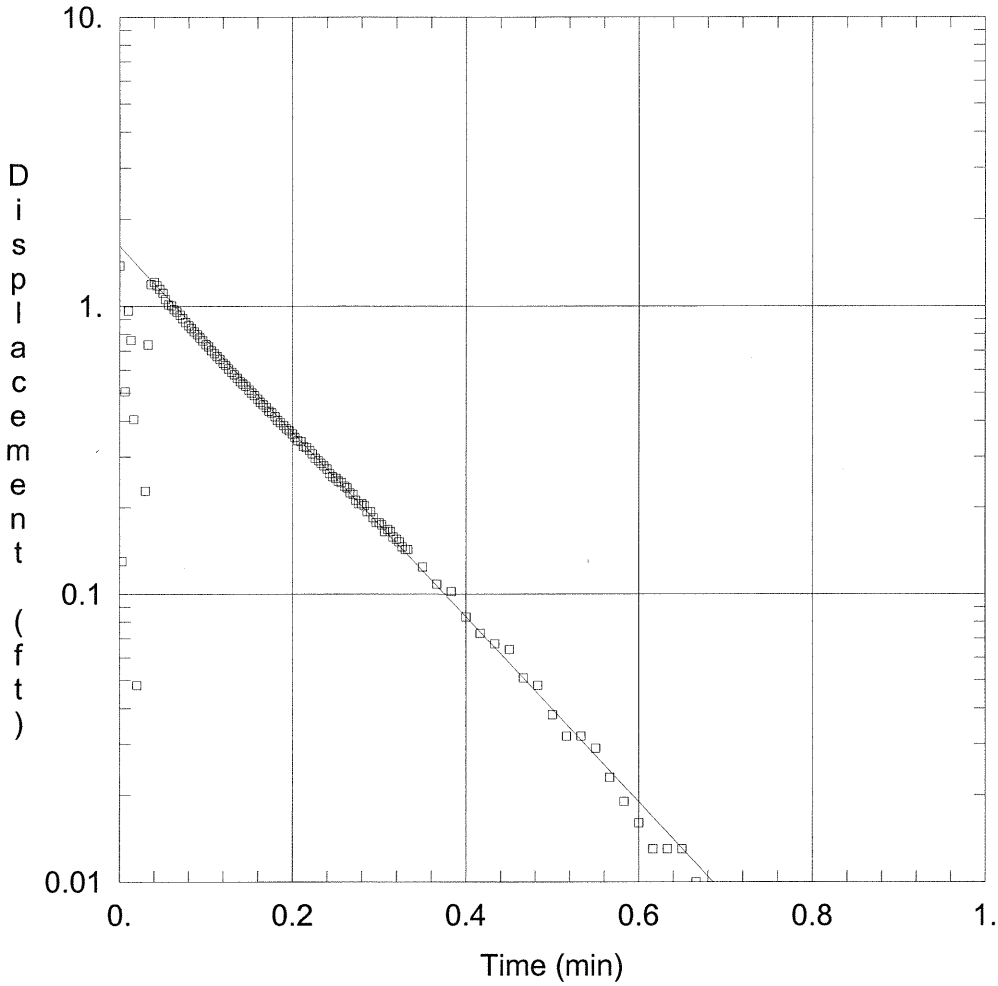
WELL DATA (HESE-01-09D)

Initial Displacement: 1.38 ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 107.5 ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 28.16 ft/day
y0 = 1.56 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-09D rev1 bouwer rice.aqt
Date: 05/17/02 Time: 12:03:32

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-09D
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 108. ft
Anisotropy Ratio (Kz/Kr): 1.

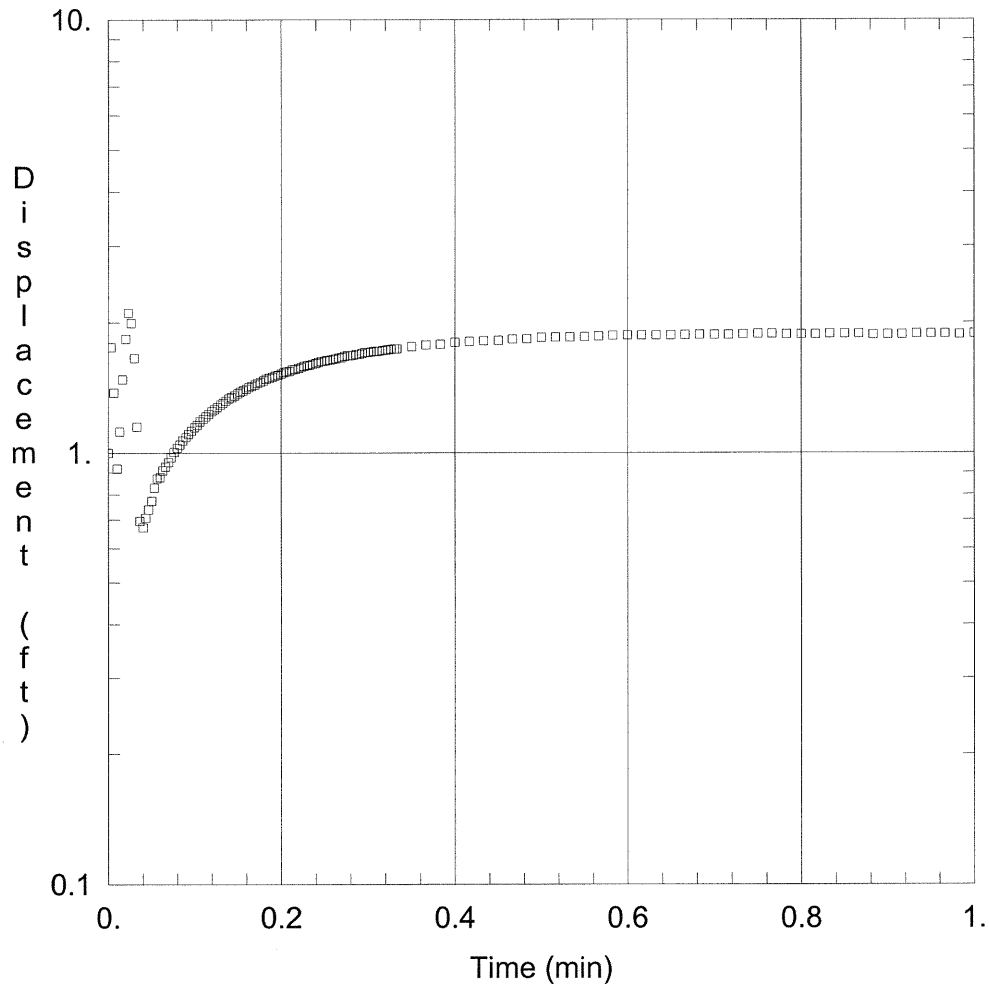
WELL DATA (HESE-01-09D)

Initial Displacement: 1.38 ft
Water Column Height: 107.5 ft
Casing Radius: 0.08 ft
Wellbore Radius: 0.17 ft
Screen Length: 10. ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 29.57 ft/day
y0 = 1.61 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-09D raw.aqt
Date: 05/17/02 Time: 12:04:31

PROJECT INFORMATION

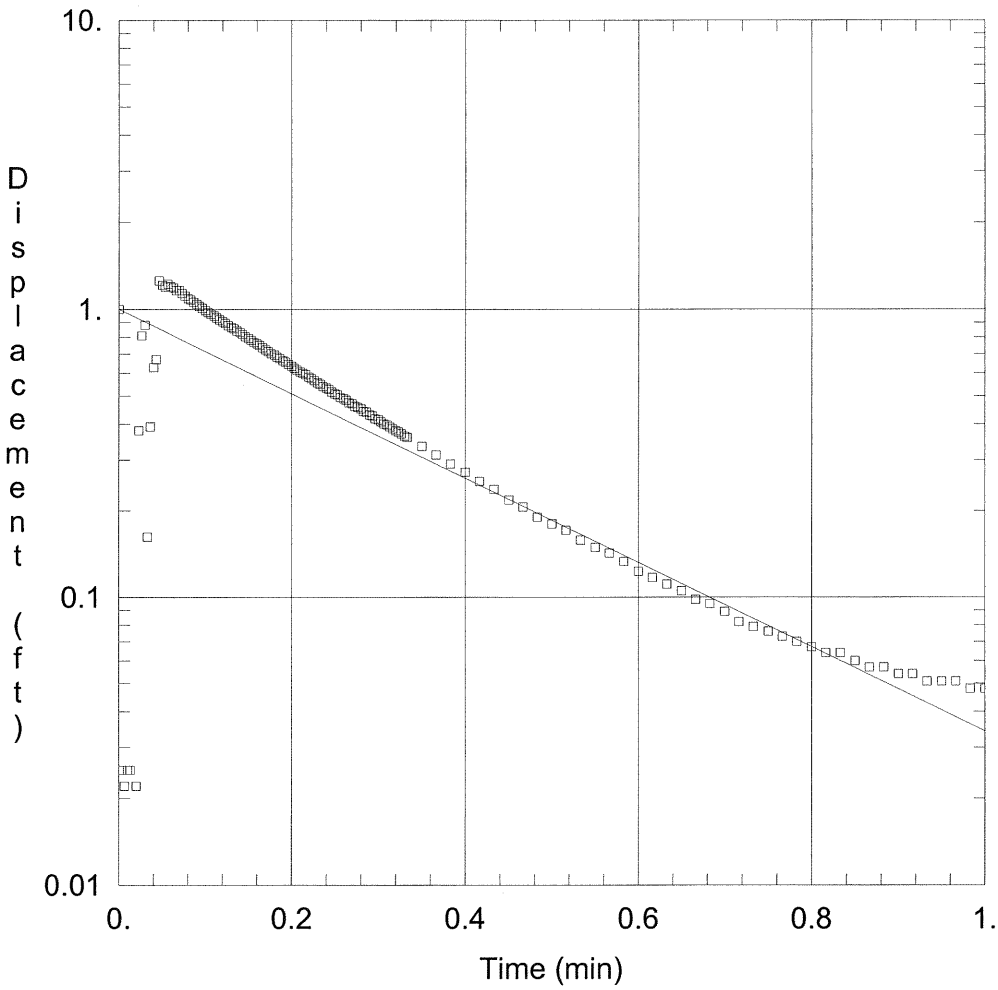
Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-09D
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 108. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (HESE-01-09D)

Initial Displacement: 1. ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 107.5 ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-10D rev1.aqt
Date: 05/17/02 Time: 11:57:25

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-10D
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 107. ft
Anisotropy Ratio (Kz/Kr): 1.

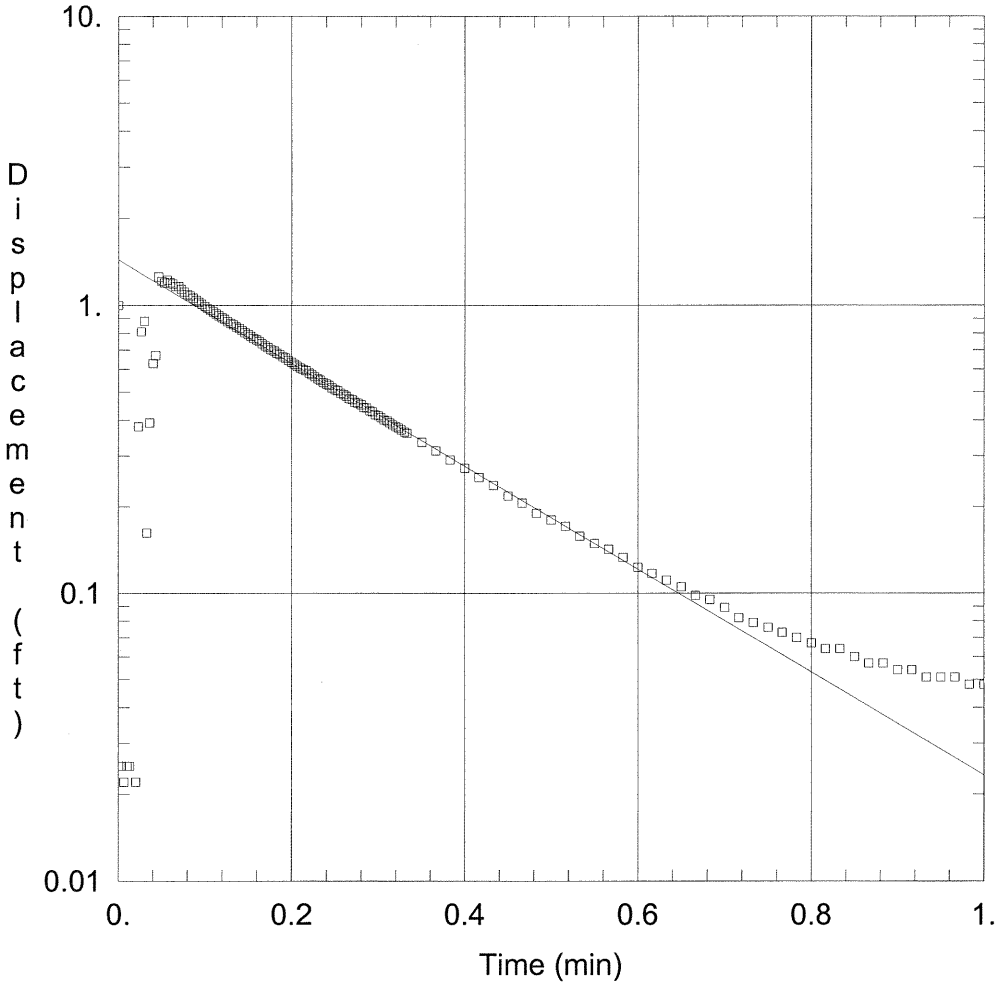
WELL DATA (HESE-01-10D)

Initial Displacement: 1. ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 106.5 ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 13.46 ft/day
y0 = 1. ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-10D rev1 hvorslev.aqt
Date: 05/17/02 Time: 11:58:34

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-10D
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 107. ft
Anisotropy Ratio (Kz/Kr): 1.

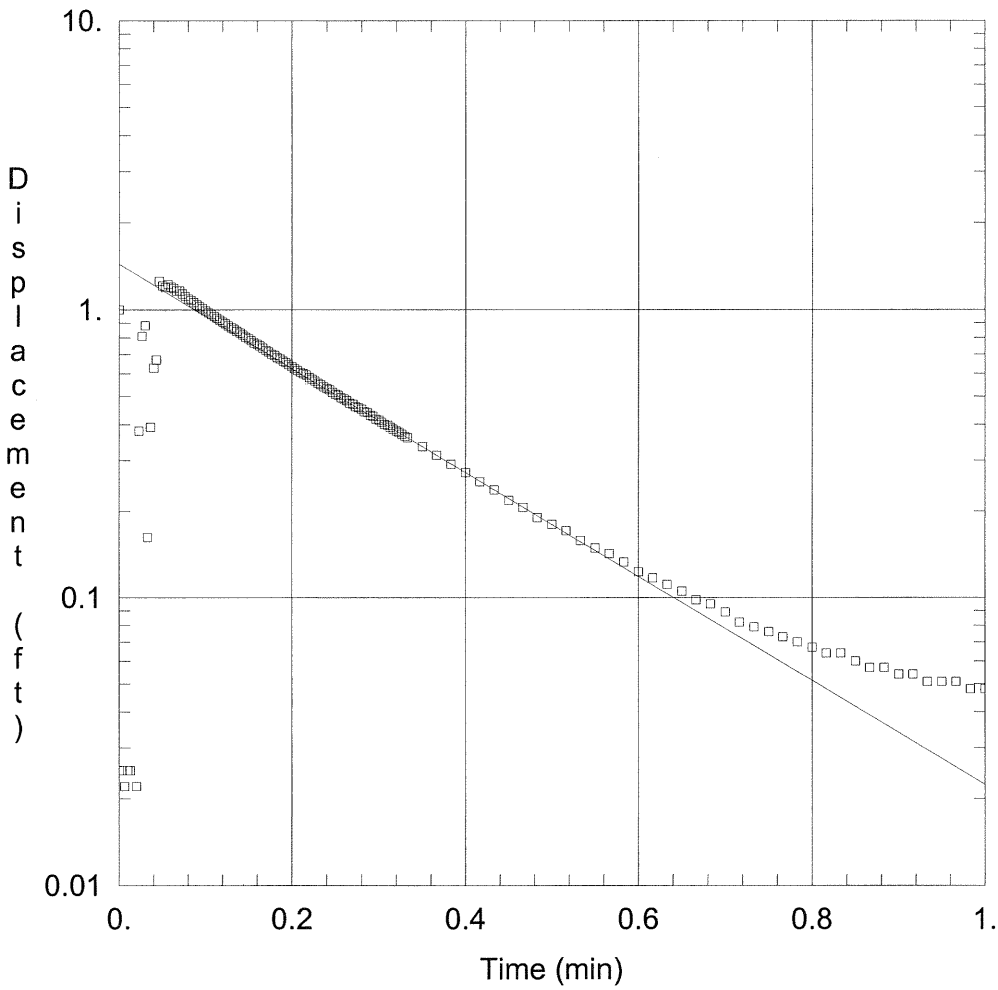
WELL DATA (HESE-01-10D)

Initial Displacement: 1. ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 106.5 ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 15.9 ft/day
y0 = 1.435 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-10D rev1 bouwer rice.aqt
Date: 05/17/02 Time: 11:59:33

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-10D
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 107. ft
Anisotropy Ratio (Kz/Kr): 1.

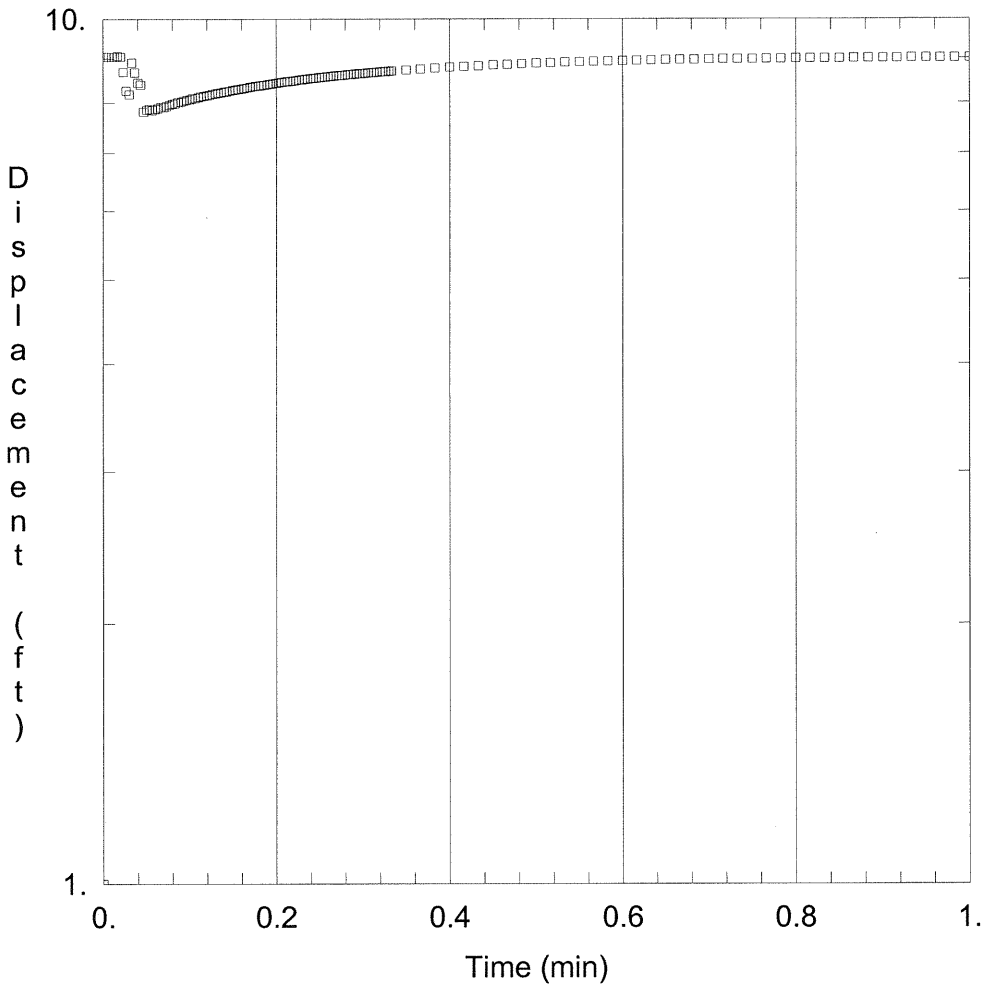
WELL DATA (HESE-01-10D)

Initial Displacement: 1. ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 106.5 ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 16.6 ft/day
y0 = 1.437 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-10D raw.aqt
Date: 05/17/02 Time: 12:00:33

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-10D
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 107. ft
Anisotropy Ratio (Kz/Kr): 1.

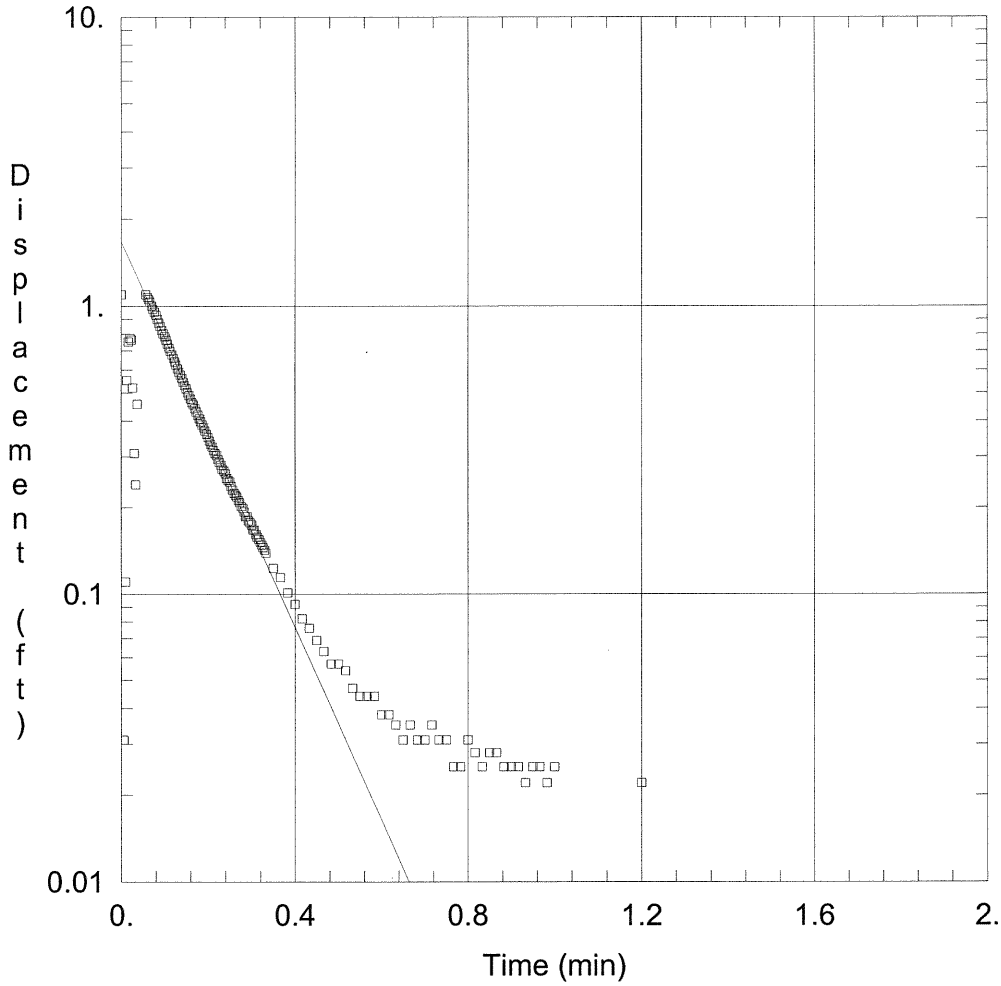
WELL DATA (HESE-01-10D)

Initial Displacement: 1. ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 106.5 ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 13.46 ft/day
y0 = 1. ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-12D rev1 hvorslev.aqt
Date: 05/23/02 Time: 12:02:06

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford
Test Well: HESE-01-12D
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 160. ft
Anisotropy Ratio (Kz/Kr): 1.

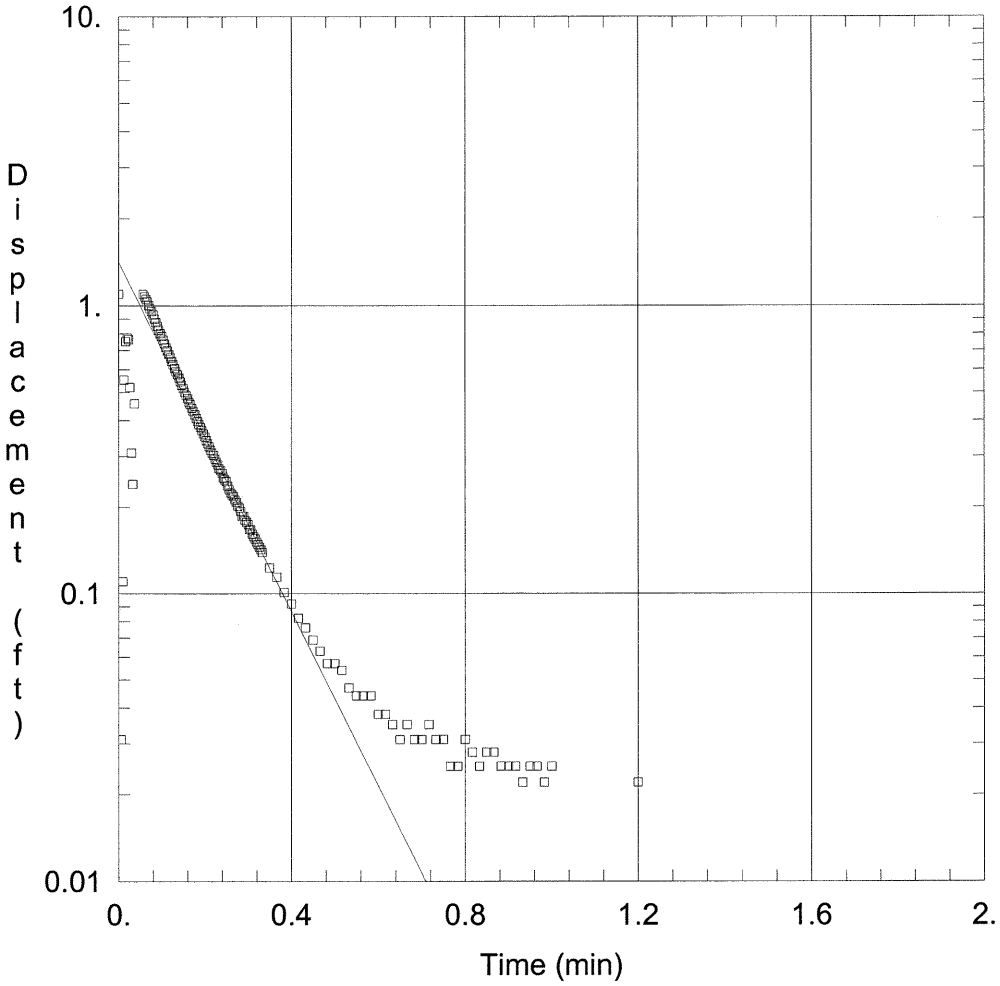
WELL DATA (HESE-01-12D)

Initial Displacement: 1.096 ft
Water Column Height: 155.8 ft
Casing Radius: 0.08 ft
Wellbore Radius: 0.17 ft
Screen Length: 10. ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 29.73 ft/day
y0 = 1.671 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-12D rev1 bouwer rice.aqt
Date: 05/23/02 Time: 11:59:28

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford
Test Well: HESE-01-12D
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 160. ft
Anisotropy Ratio (Kz/Kr): 1.

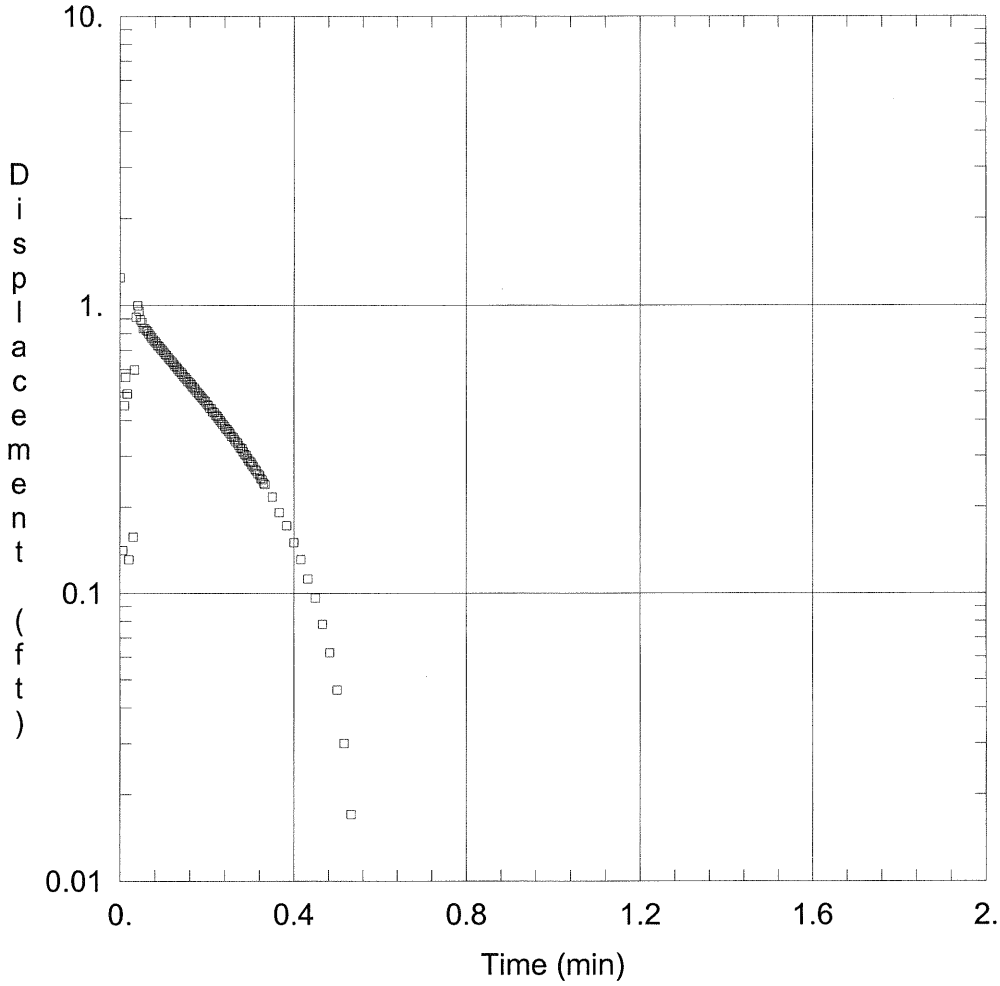
WELL DATA (HESE-01-12D)

Initial Displacement: 1.096 ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 155.8 ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 26.74 ft/day
y0 = 1.416 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-12I rev1.aqt
Date: 05/17/02 Time: 11:36:48

PROJECT INFORMATION

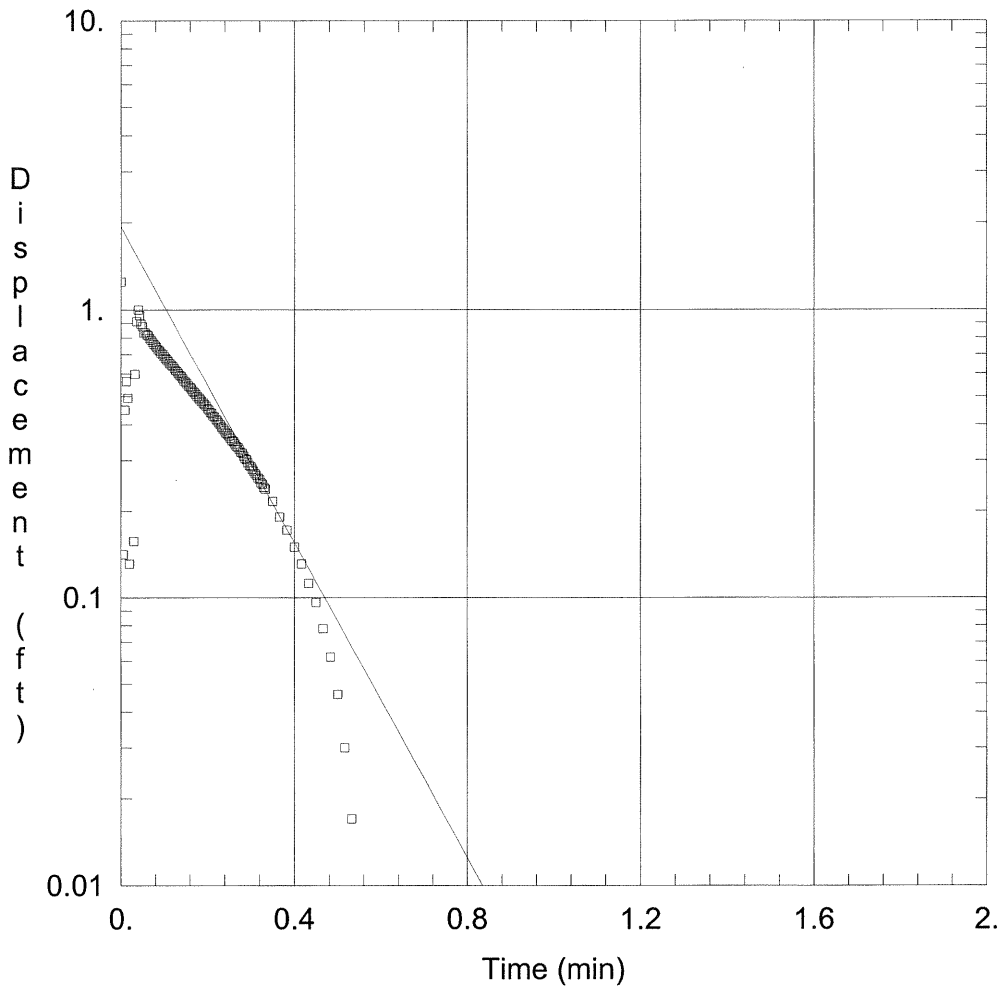
Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-12I
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 151. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (HESE-01-12I)

Initial Displacement: 1.248 ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 39.5 ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-12I rev1 hvorslev.aqt
Date: 05/17/02 Time: 11:37:45

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-12I
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 151. ft
Anisotropy Ratio (Kz/Kr): 1.

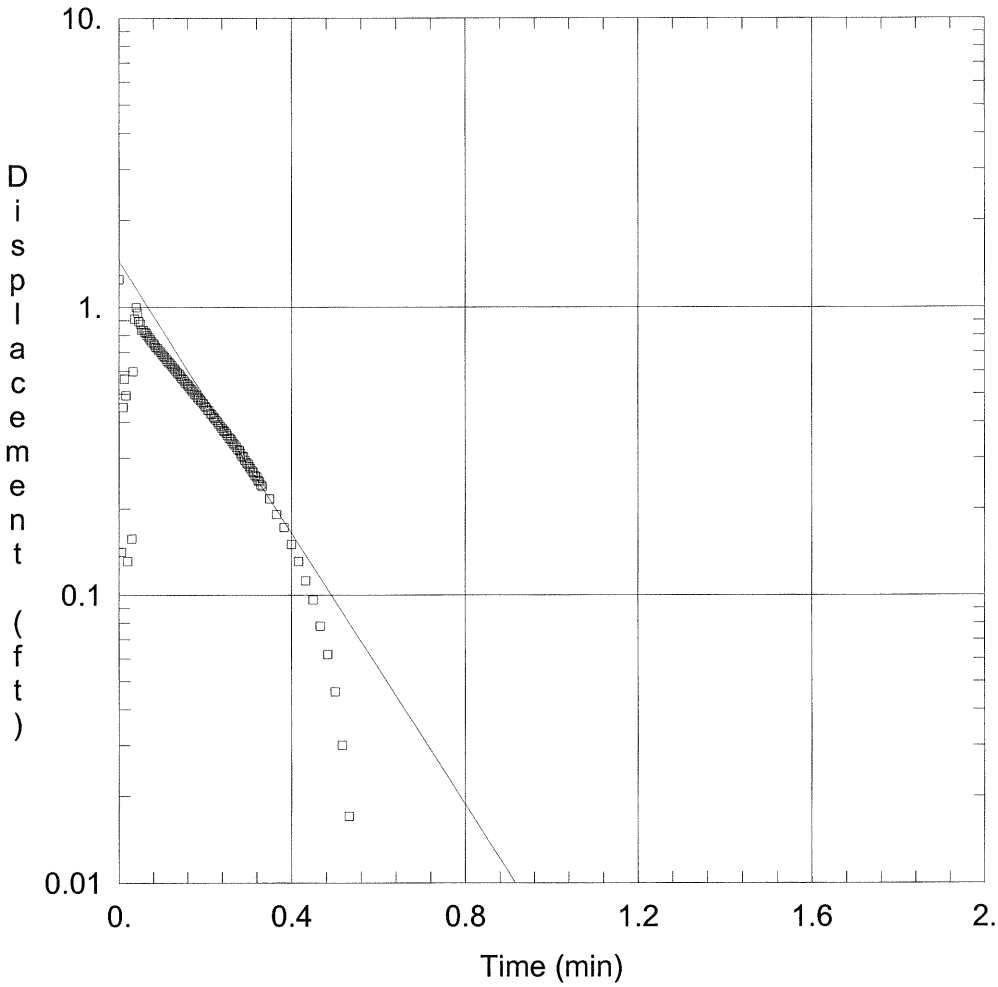
WELL DATA (HESE-01-12I)

Initial Displacement: 1.248 ft
Water Column Height: 39.5 ft
Casing Radius: 0.08 ft
Wellbore Radius: 0.17 ft
Screen Length: 10. ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 24.3 ft/day
y0 = 1.931 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-12I rev1 bouwer rice.aqt
Date: 05/17/02 Time: 11:38:39

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-12I
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 151. ft
Anisotropy Ratio (Kz/Kr): 1.

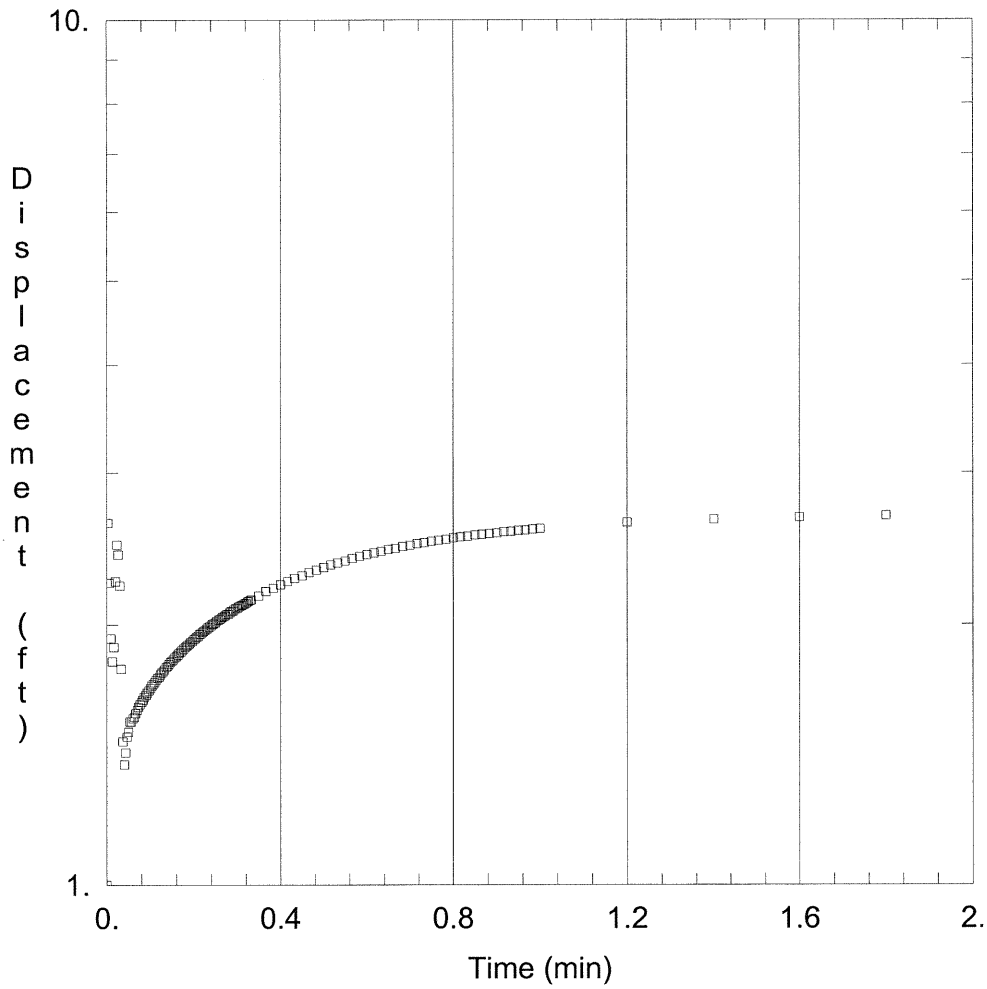
WELL DATA (HESE-01-12I)

Initial Displacement: 1.248 ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 39.5 ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 16.41 ft/day
y0 = 1.441 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-12I raw.aqt
Date: 05/17/02 Time: 11:39:31

PROJECT INFORMATION

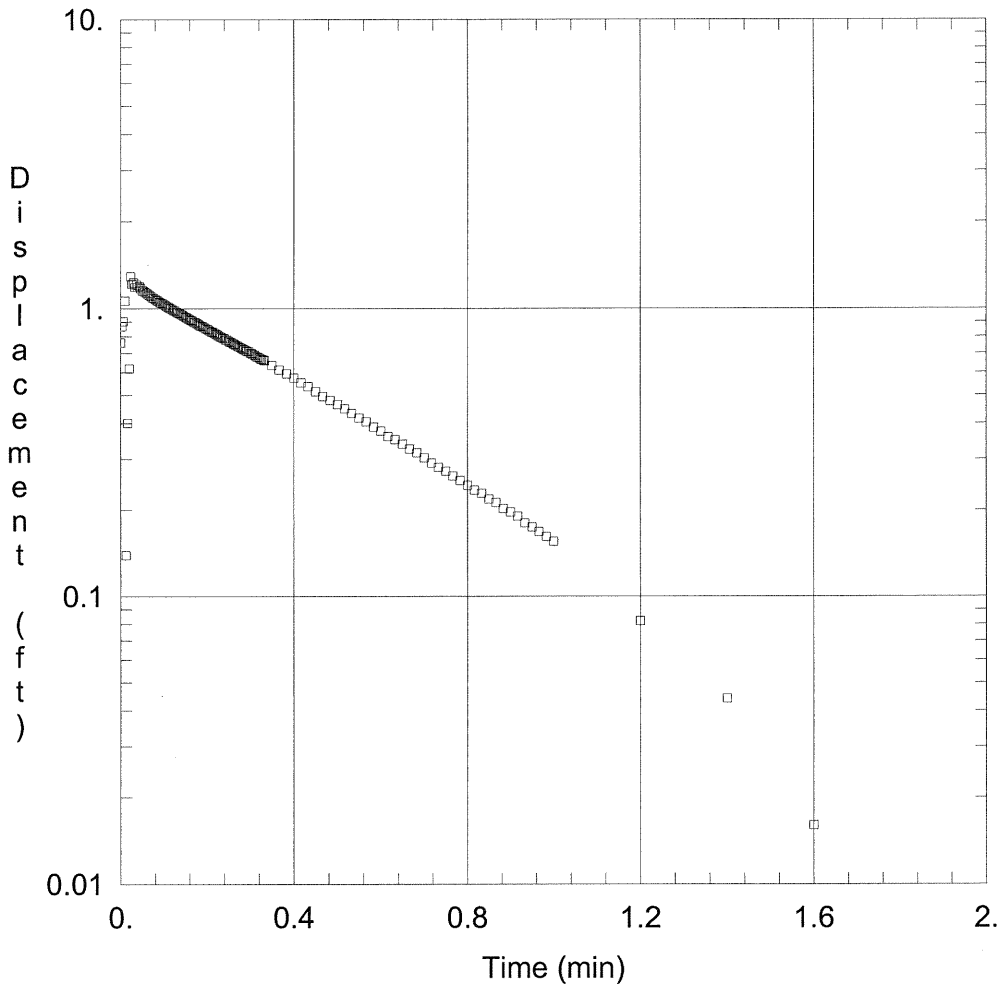
Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-12I
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 151. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (HESE-01-12I)

Initial Displacement: 1. ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 39.5 ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-14I rev1.aqt
Date: 05/17/02 Time: 11:33:05

PROJECT INFORMATION

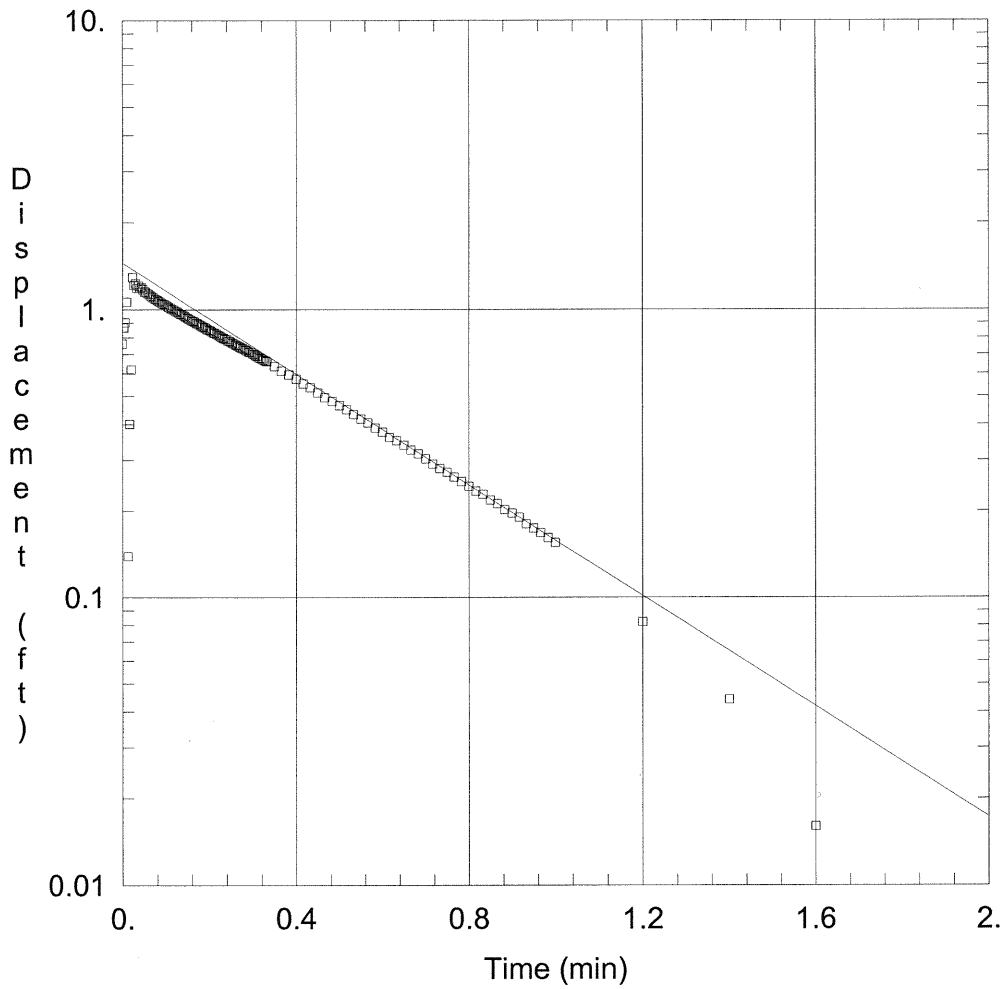
Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-14I
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 120. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (HESE-01-14I)

Initial Displacement: 0.762 ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 42.3 ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-14I rev1 hvorslev.aqt
Date: 05/17/02 Time: 11:33:58

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-14I
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 120. ft
Anisotropy Ratio (Kz/Kr): 1.

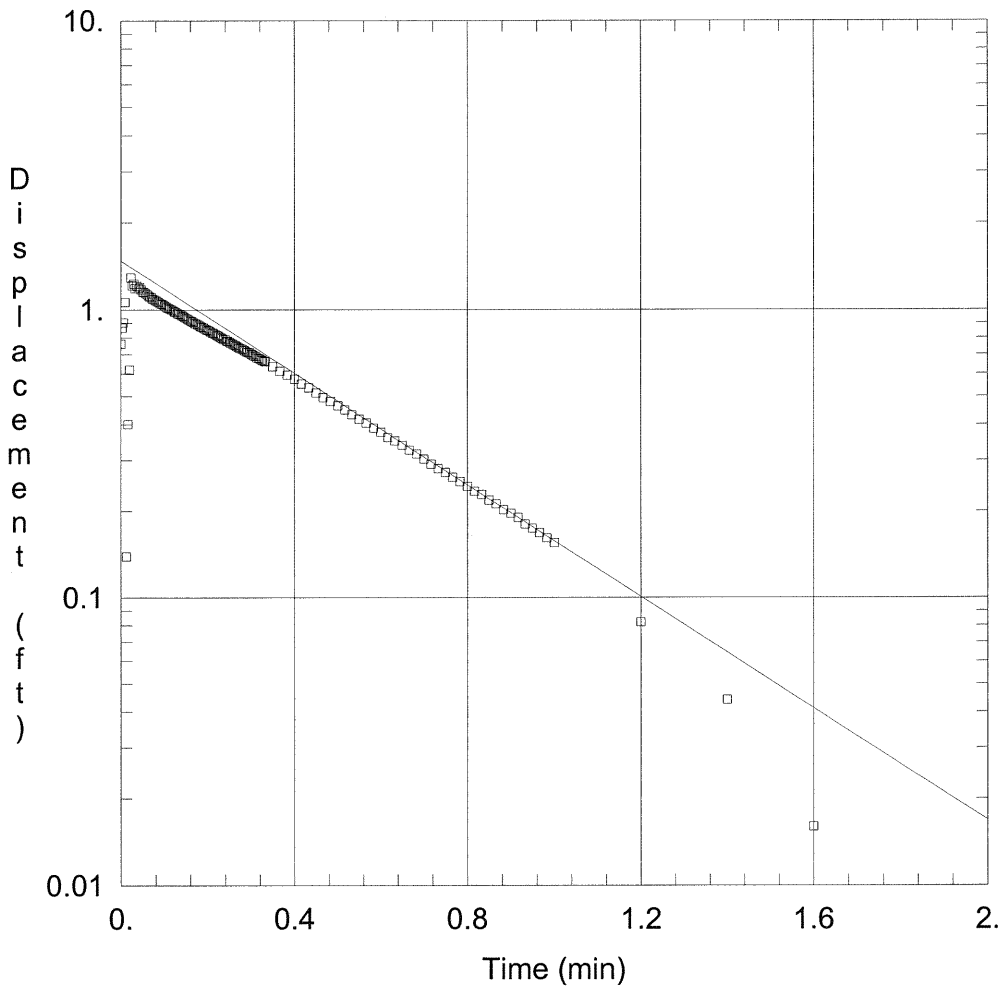
WELL DATA (HESE-01-14I)

Initial Displacement: 0.762 ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 42.3 ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 8.543 ft/day
y0 = 1.447 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-14I rev1 bouwer rice.aqt
Date: 05/17/02 Time: 11:35:01

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-14I
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 120. ft
Anisotropy Ratio (Kz/Kr): 1.

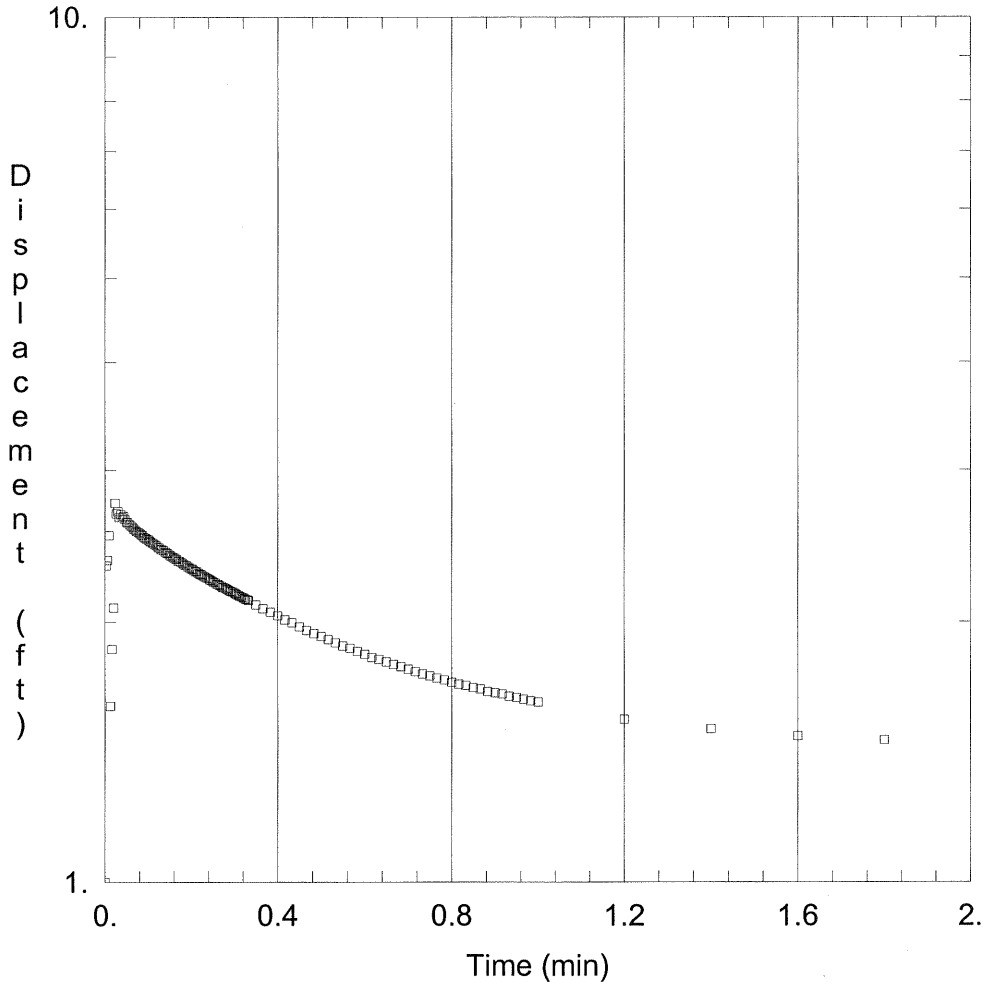
WELL DATA (HESE-01-14I)

Initial Displacement: 0.762 ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 42.3 ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 6.815 ft/day
y0 = 1.474 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-14I raw.aqt
Date: 05/17/02 Time: 11:35:55

PROJECT INFORMATION

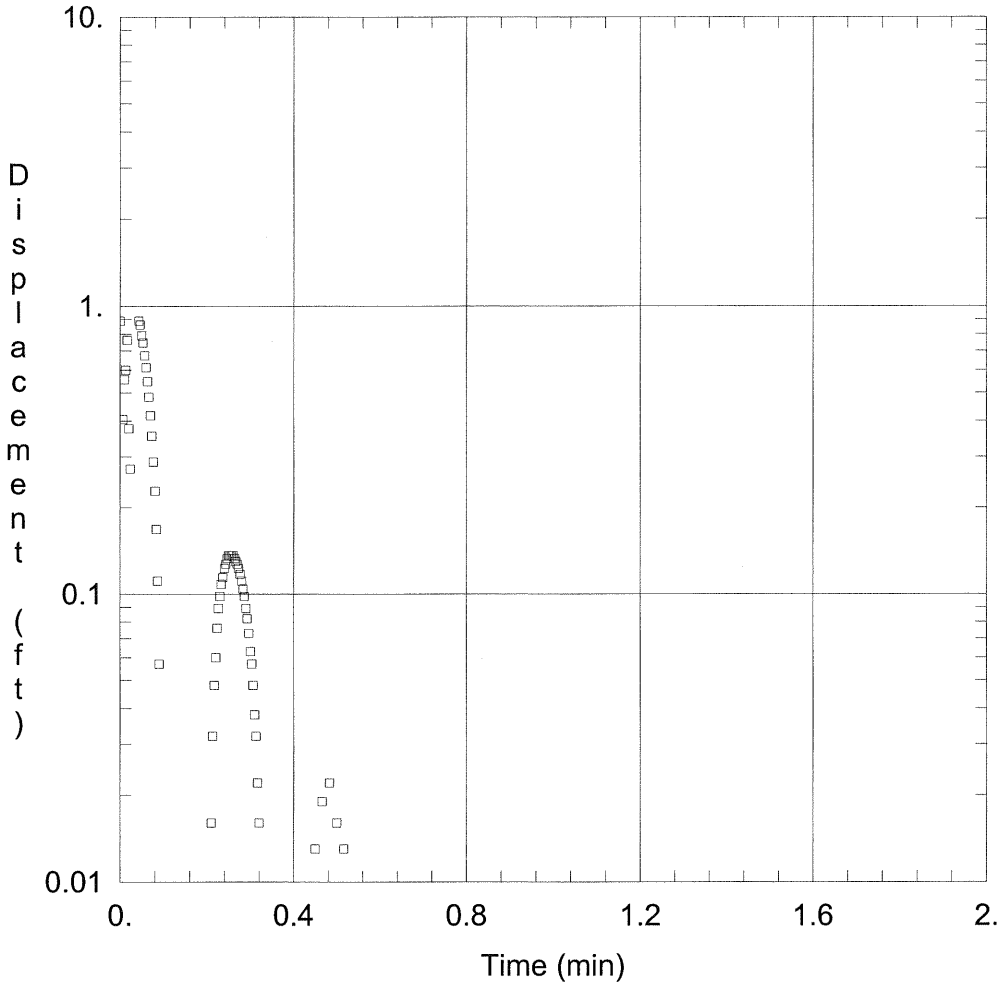
Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-14I
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 120. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (HESE-01-14I)

Initial Displacement: 1. ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 42.3 ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-17D rev1.aqt
Date: 05/17/02 Time: 11:25:28

PROJECT INFORMATION

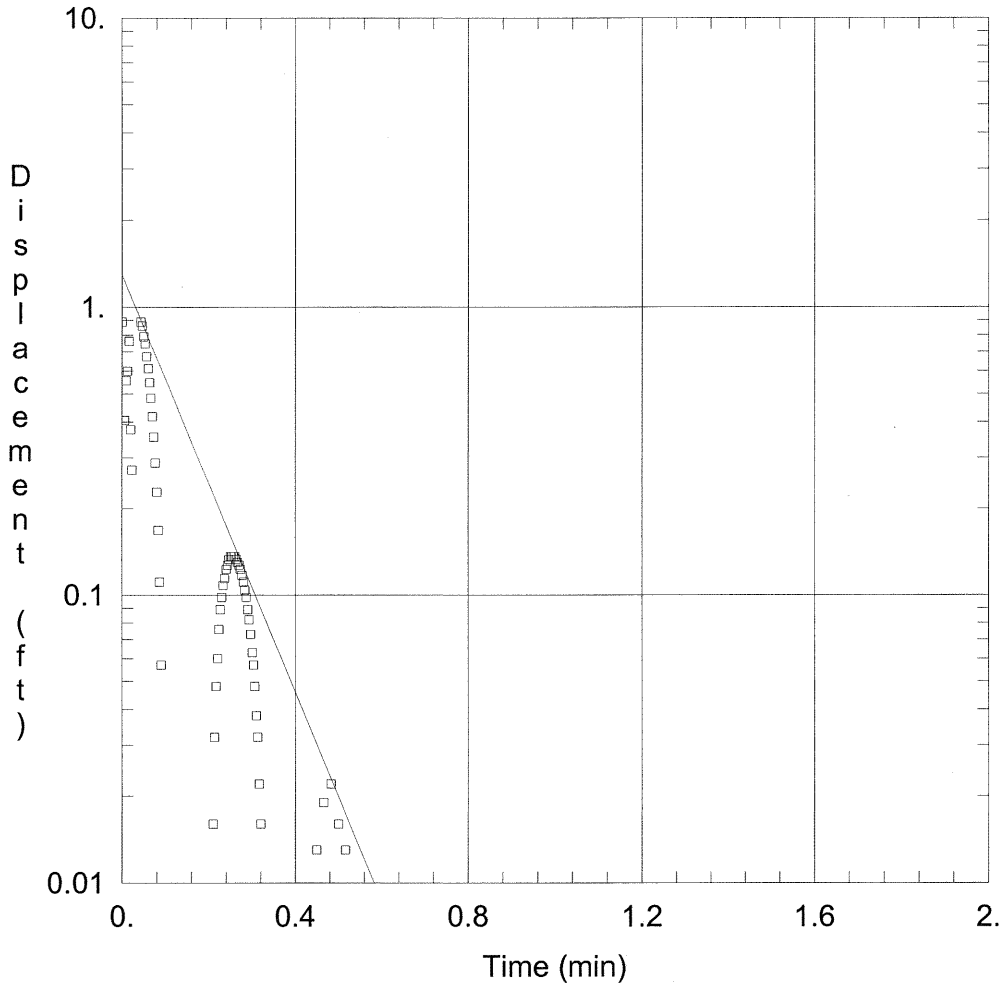
Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-17D
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 122. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (HESE-01-17D)

Initial Displacement: 0.888 ft
Water Column Height: 119.4 ft
Casing Radius: 0.08 ft
Wellbore Radius: 0.17 ft
Screen Length: 10. ft
Gravel Pack Porosity: 0.3



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-17D rev1 hvorslev.aqt
Date: 05/17/02 Time: 11:26:31

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-17D
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 122. ft
Anisotropy Ratio (Kz/Kr): 1.

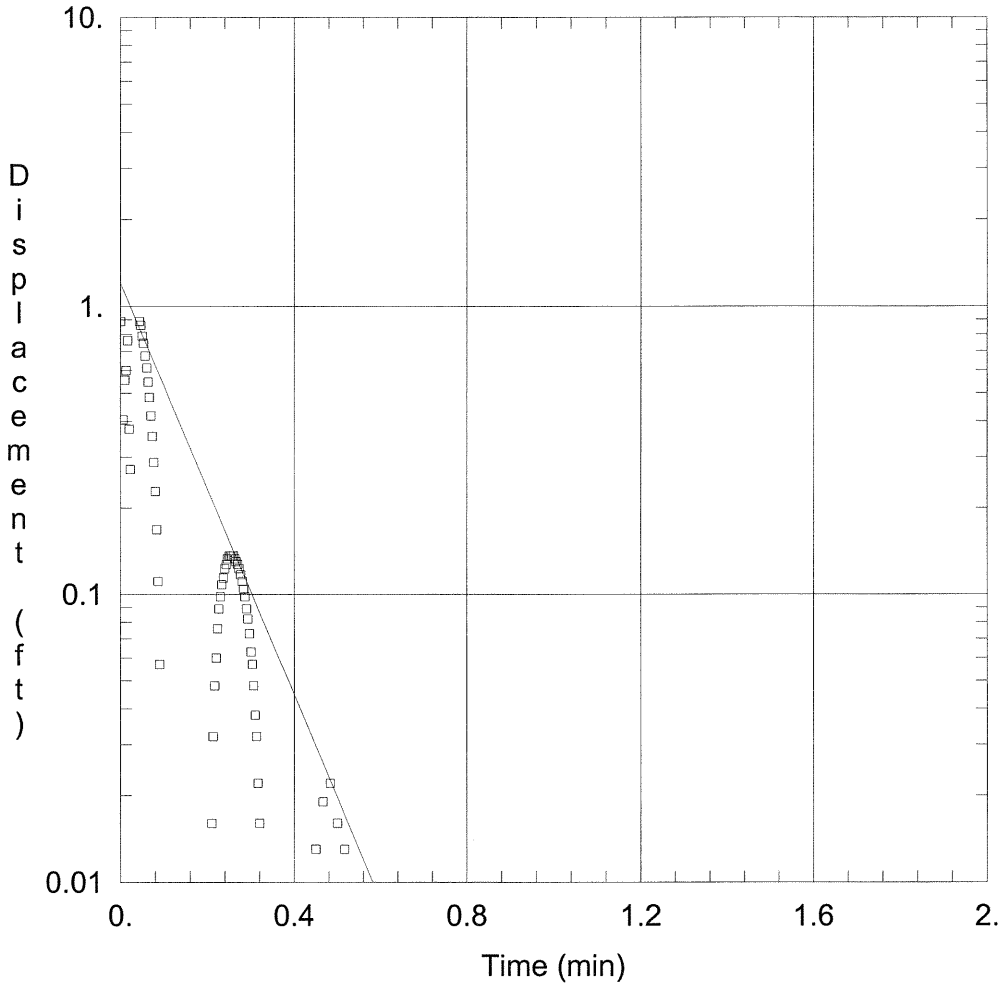
WELL DATA (HESE-01-17D)

Initial Displacement: 0.888 ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 119.4 ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 32.16 ft/day
y0 = 1.292 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-17D rev1 bouwer rice.aqt
Date: 05/17/02 Time: 11:27:29

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-17D
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 122. ft
Anisotropy Ratio (Kz/Kr): 1.

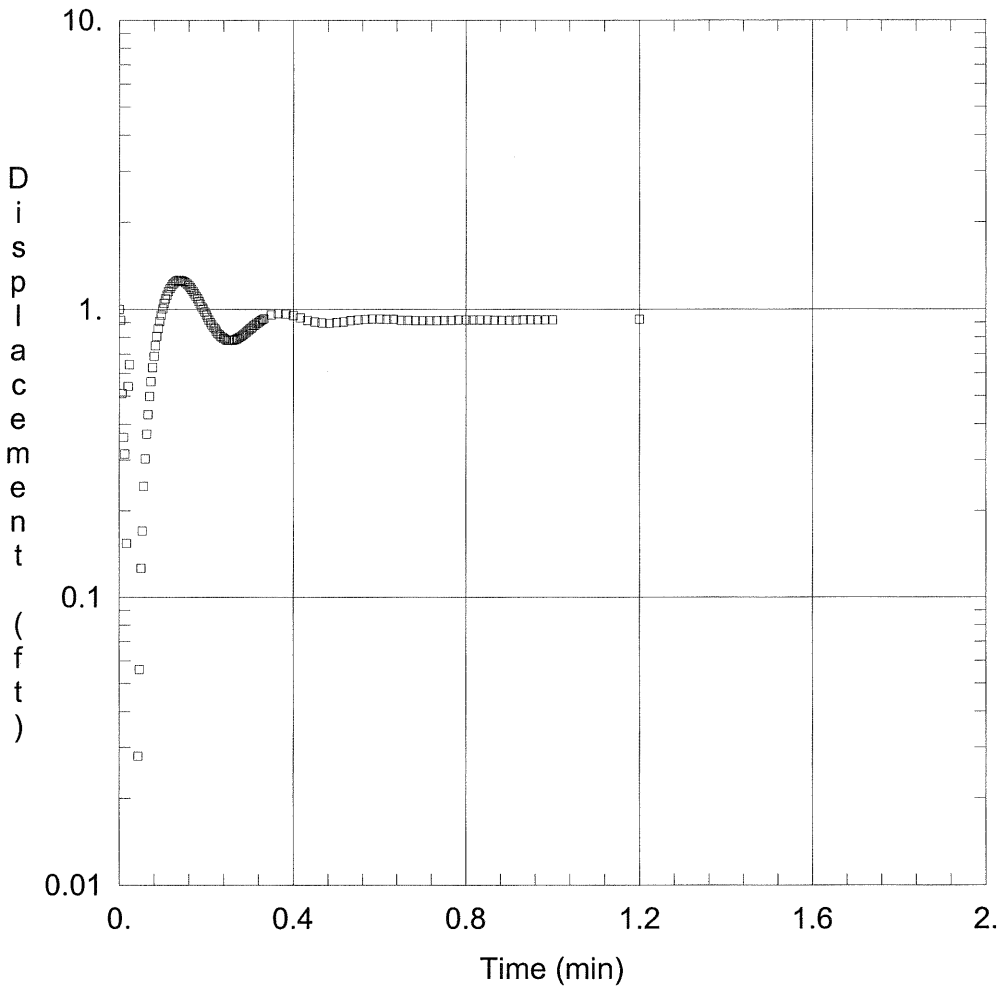
WELL DATA (HESE-01-17D)

Initial Displacement: 0.888 ft
Water Column Height: 119.4 ft
Casing Radius: 0.08 ft
Wellbore Radius: 0.17 ft
Screen Length: 10. ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 31.24 ft/day
y0 = 1.204 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-17D raw.aqt
Date: 05/17/02 Time: 11:28:27

PROJECT INFORMATION

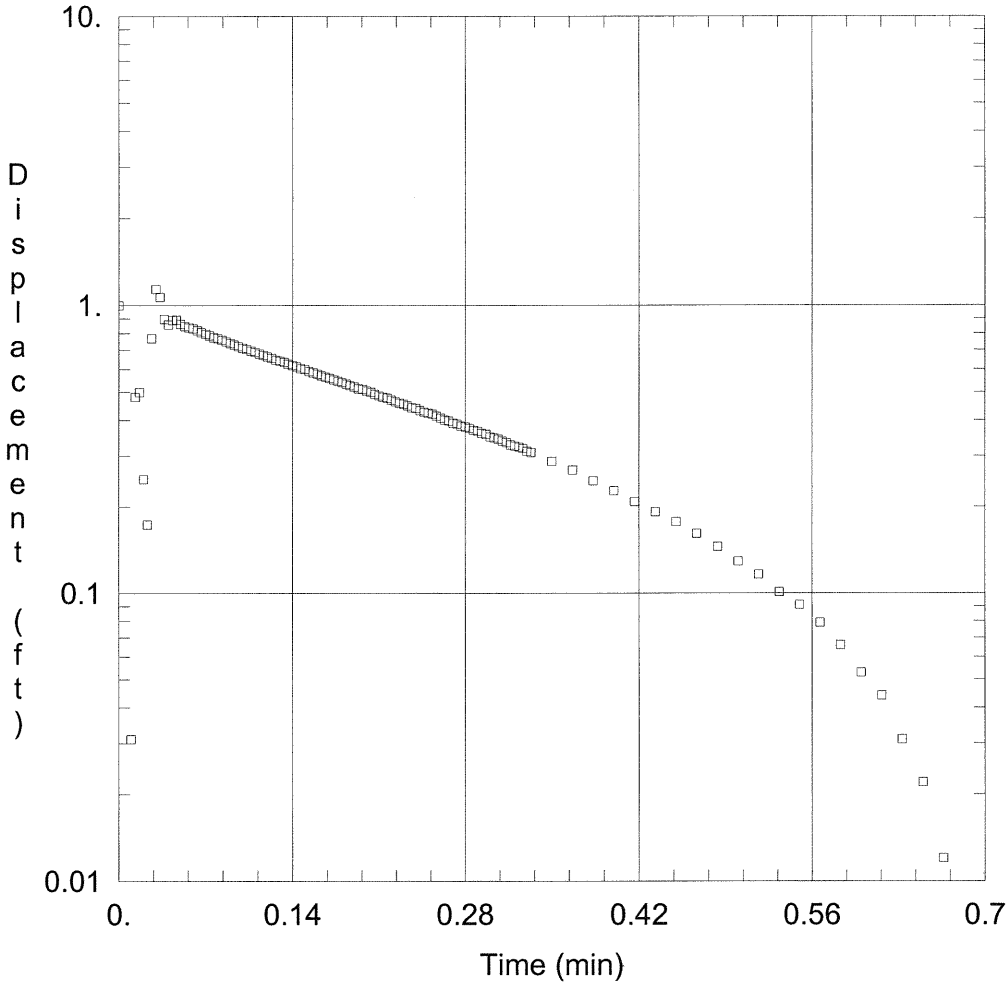
Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-17D
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 122. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (HESE-01-17D)

Initial Displacement: 1. ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 119.4 ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-16I raw.aqt
Date: 05/17/02 Time: 11:32:10

PROJECT INFORMATION

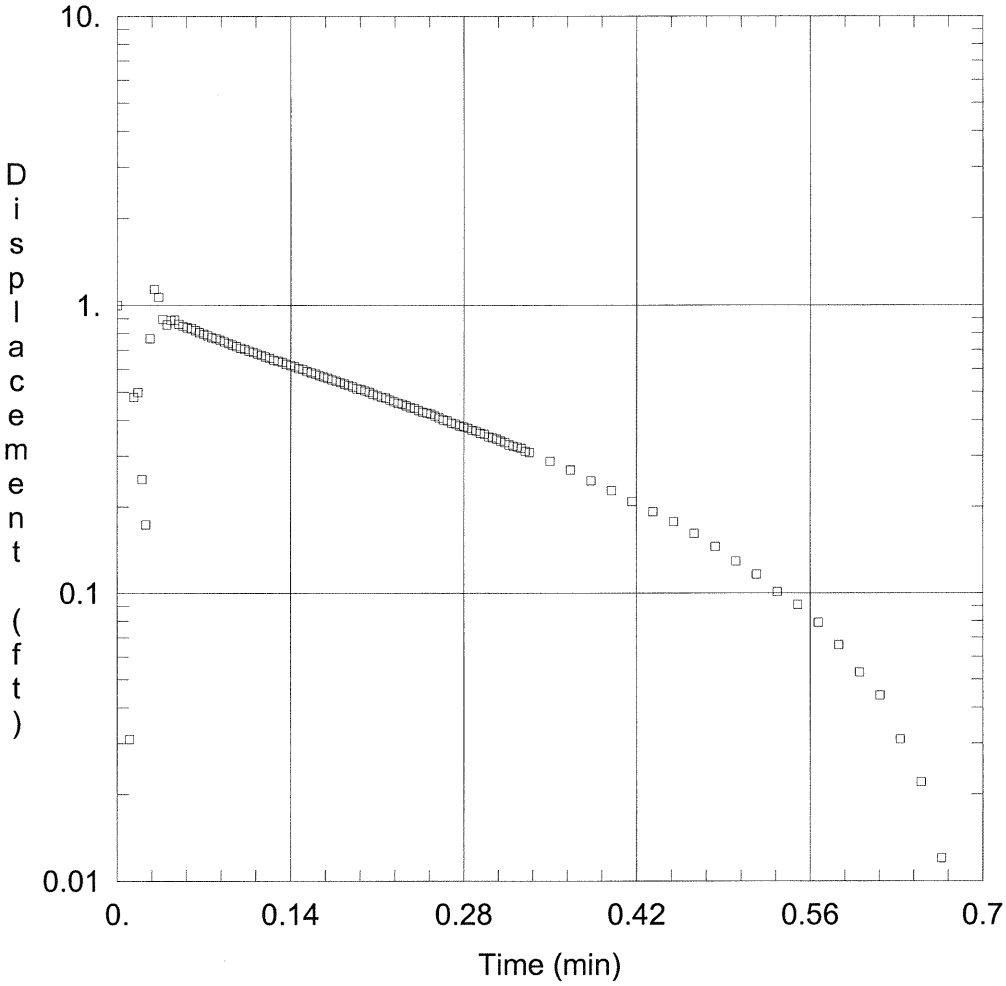
Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-16I
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 120. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (HESE-01-16I)

Initial Displacement: 1. ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 29. ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-16I rev1.aqt
Date: 05/17/02 Time: 11:29:24

PROJECT INFORMATION

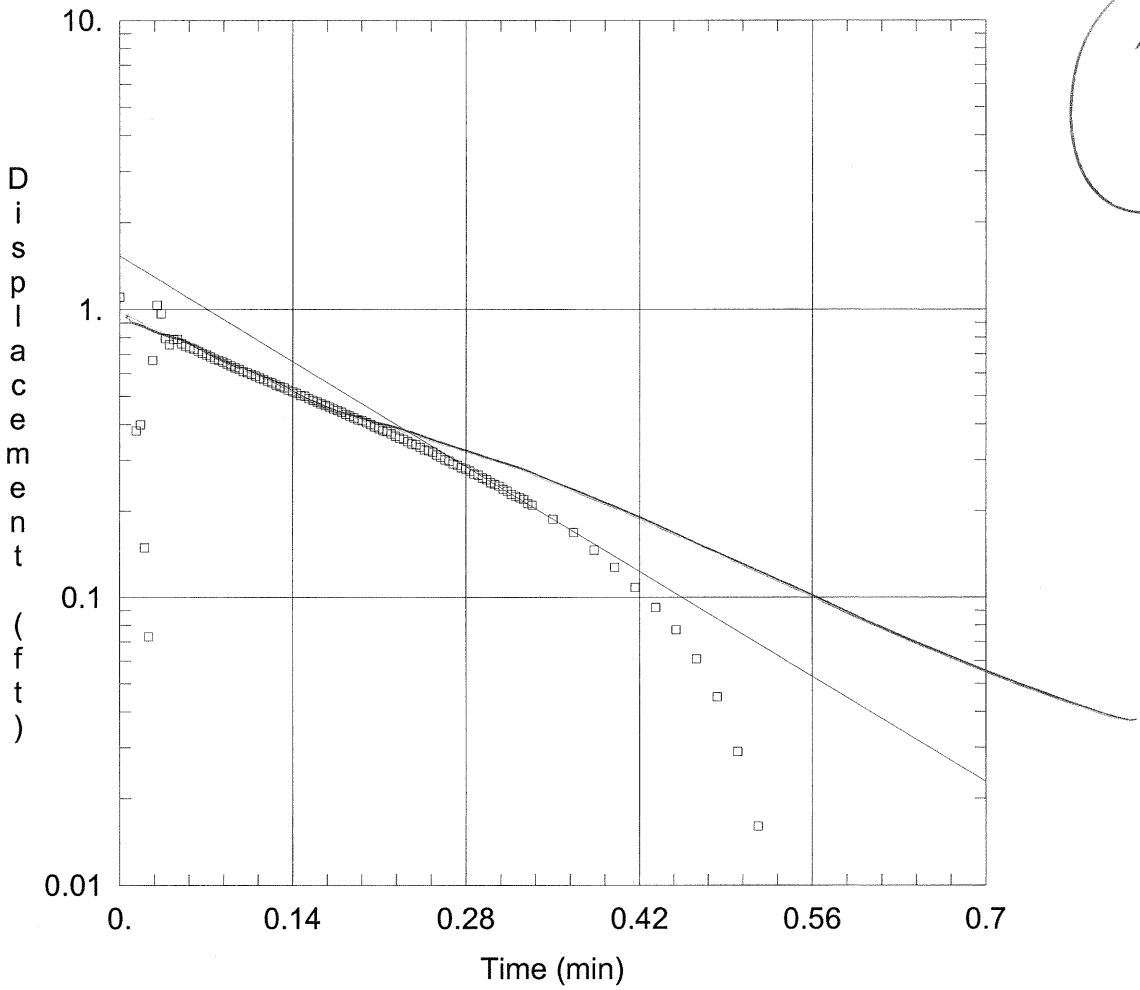
Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-16I
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 120. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (HESE-01-16I)

Initial Displacement: 1. ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 29. ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3



?

WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-16I rev1 hvorslev.aqt
Date: 05/17/02 Time: 11:30:17

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-16I
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 120. ft
Anisotropy Ratio (Kz/Kr): 1.

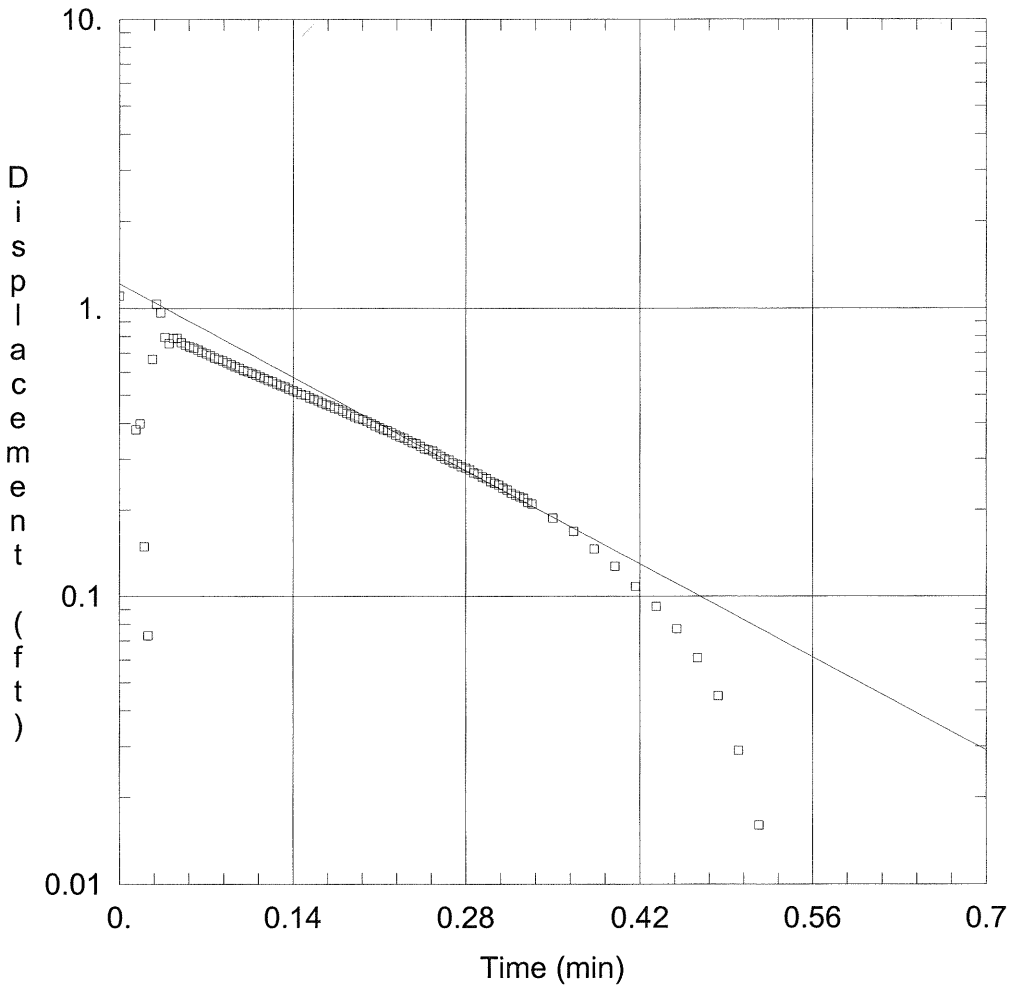
WELL DATA (HESE-01-16I)

Initial Displacement: 1.103 ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 29. ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 23.17 ft/day
y0 = 1.53 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-16I rev1 bouwer rice.aqt
Date: 05/17/02 Time: 11:31:15

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-16I
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 120. ft
Anisotropy Ratio (Kz/Kr): 1.

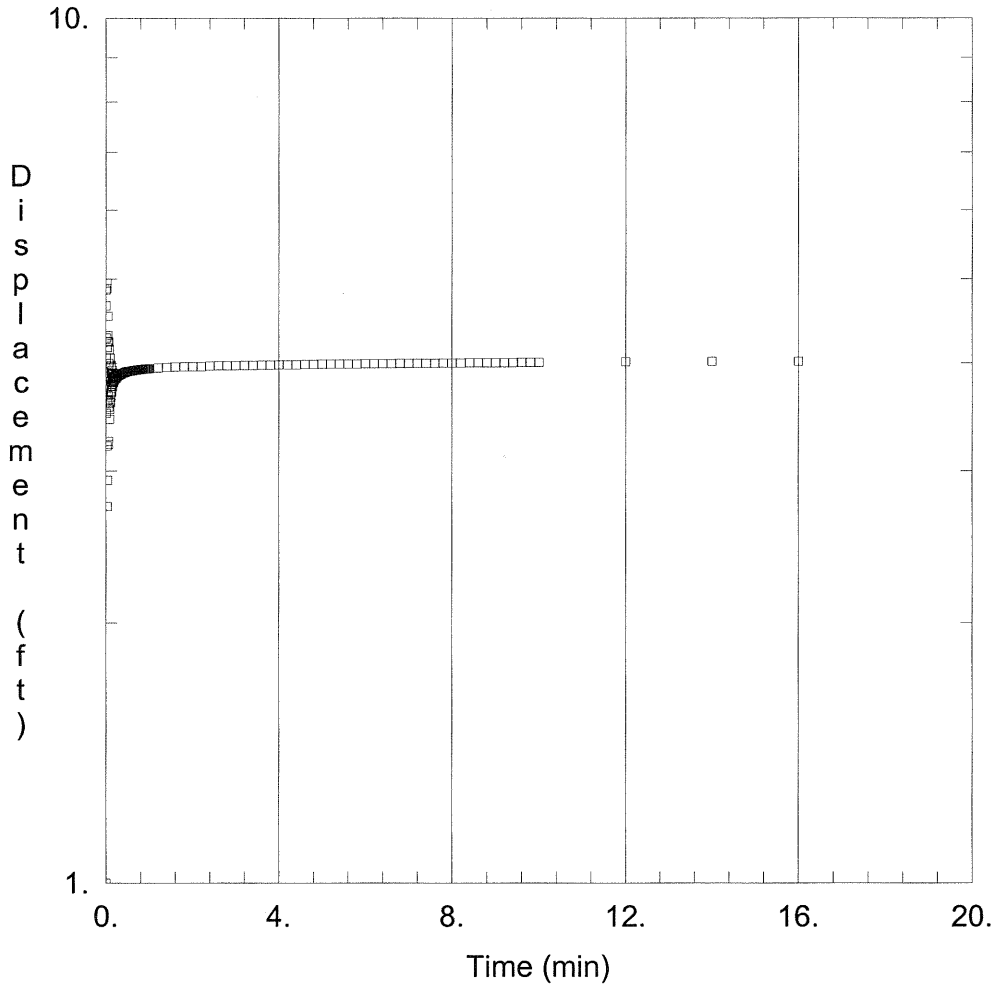
WELL DATA (HESE-01-16I)

Initial Displacement: 1.103 ft
Water Column Height: 29. ft
Casing Radius: 0.08 ft
Wellbore Radius: 0.17 ft
Screen Length: 10. ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 15.53 ft/day
y0 = 1.218 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-17I raw.aqt
Date: 05/17/02 Time: 11:24:30

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford
Test Well: HESE-01-17I
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 121. ft
Anisotropy Ratio (Kz/Kr): 1.

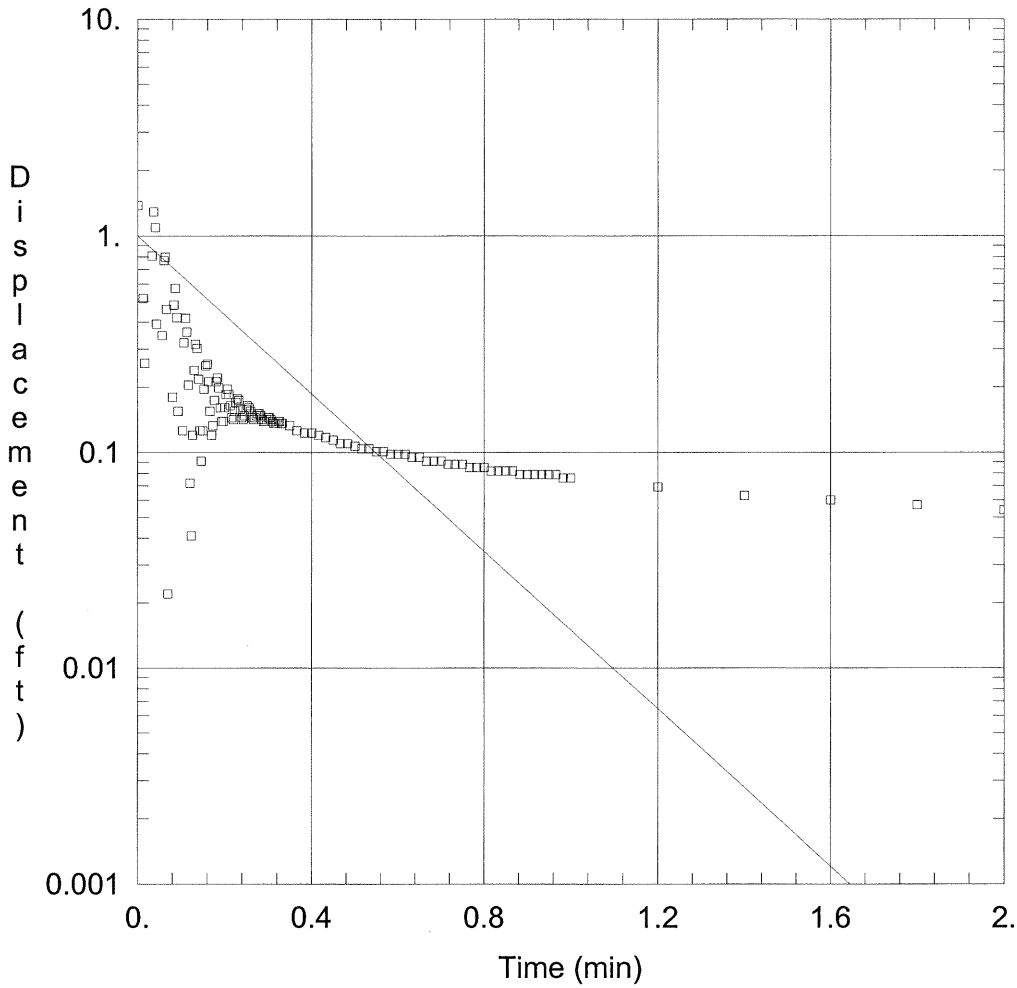
WELL DATA (HESE-01-17I)

Initial Displacement: 1. ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 23.7 ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 11.9 ft/day
y0 = 1. ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-17I rev1.aqt
Date: 05/17/02 Time: 11:21:40

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford
Test Well: HESE-01-17I
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 121. ft
Anisotropy Ratio (Kz/Kr): 1.

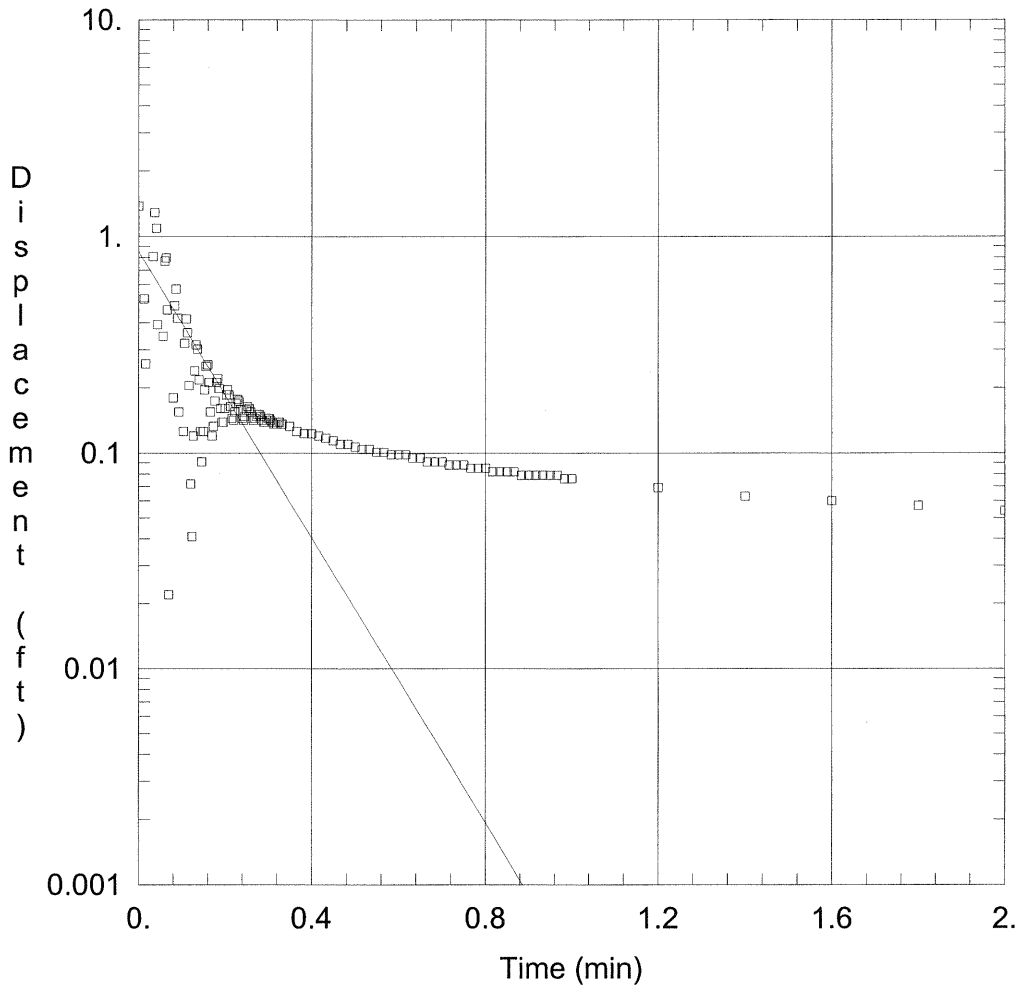
WELL DATA (HESE-01-17I)

Initial Displacement: 1.38 ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 23.7 ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 11.9 ft/day
y0 = 1. ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-17I rev1 hvorslev.aqt
Date: 05/17/02 Time: 11:22:34

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford
Test Well: HESE-01-17I
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 121. ft
Anisotropy Ratio (Kz/Kr): 1.

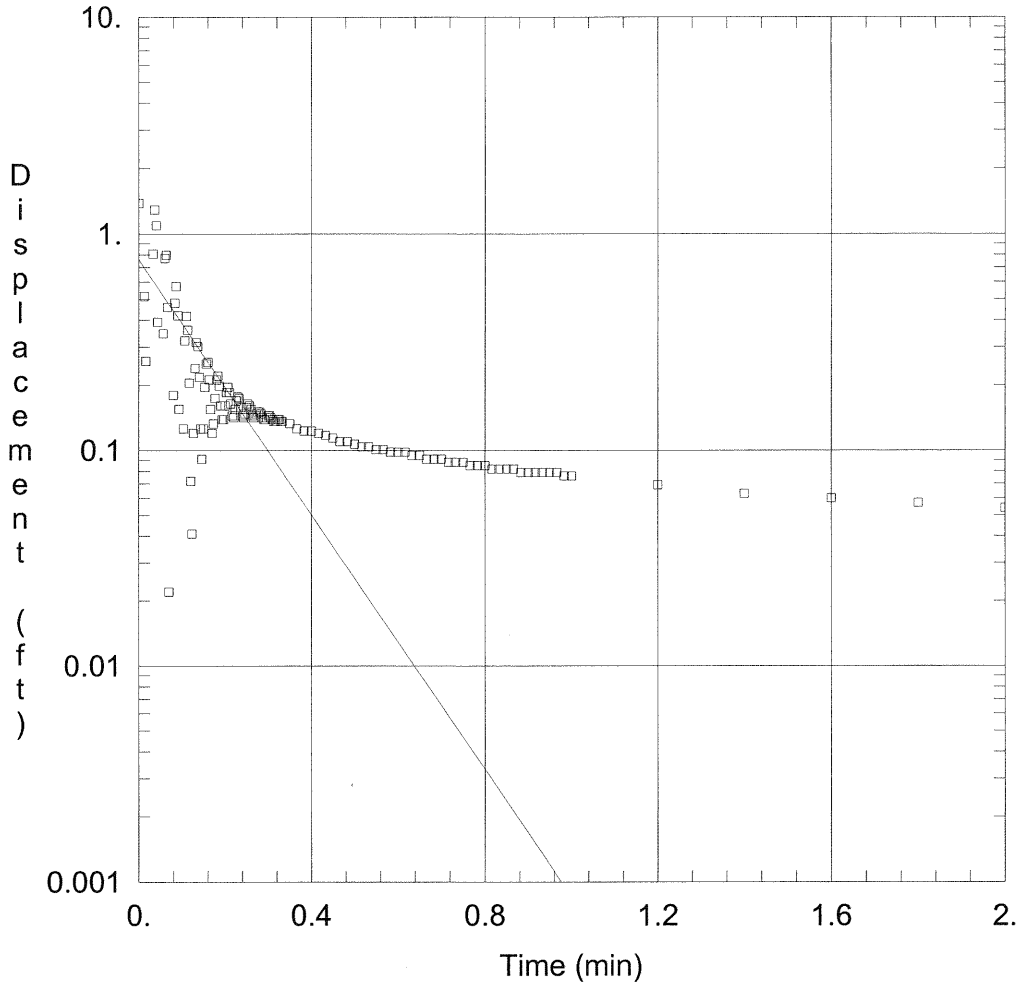
WELL DATA (HESE-01-17I)

Initial Displacement: 1.38 ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 23.7 ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 29.36 ft/day
y0 = 0.8512 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-17I rev1 bouwer rice.aqt
Date: 05/17/02 Time: 11:23:28

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford
Test Well: HESE-01-17I
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 121. ft
Anisotropy Ratio (Kz/Kr): 1.

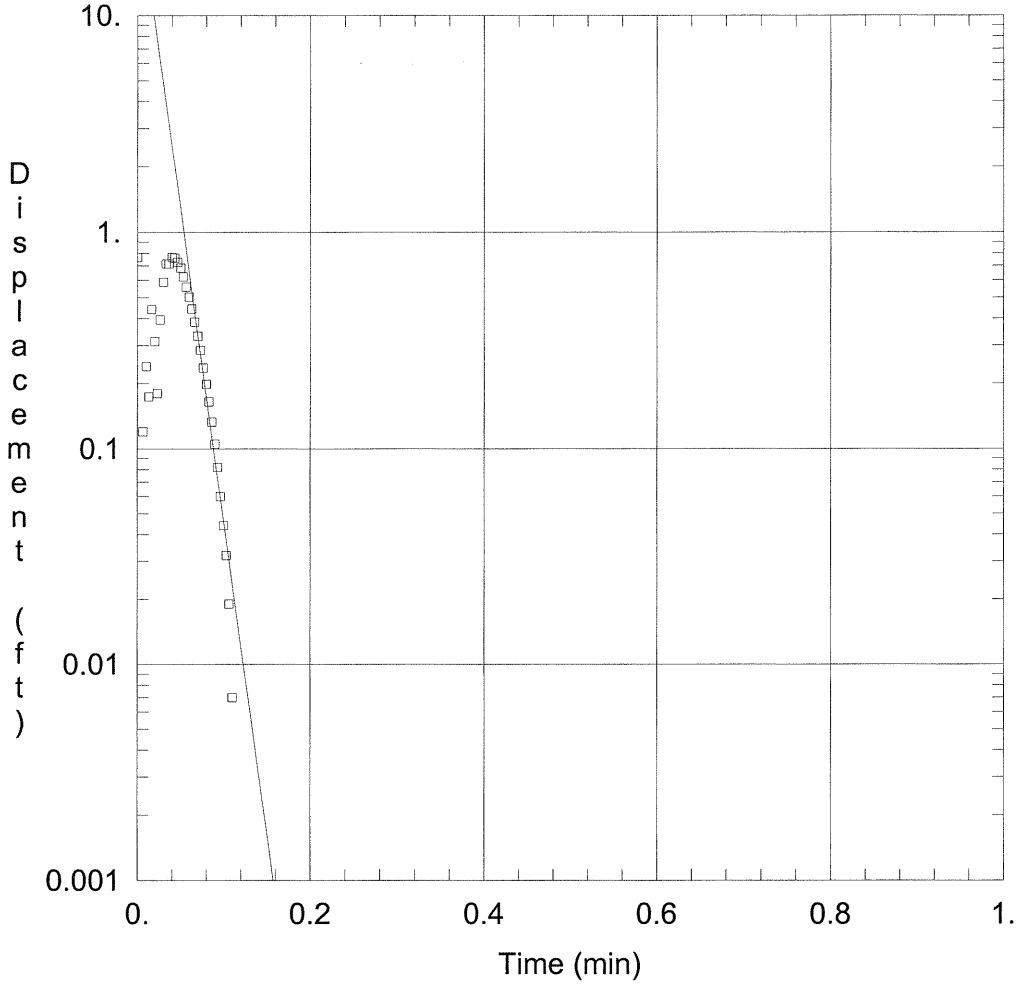
WELL DATA (HESE-01-17I)

Initial Displacement: 1.38 ft
Water Column Height: 23.7 ft
Casing Radius: 0.08 ft
Wellbore Radius: 0.17 ft
Screen Length: 10. ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 19.24 ft/day
y0 = 0.7587 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-18D rev1 bouwer rice.aqt
Date: 05/17/02 Time: 11:19:15

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-18D
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 60. ft
Anisotropy Ratio (Kz/Kr): 1.

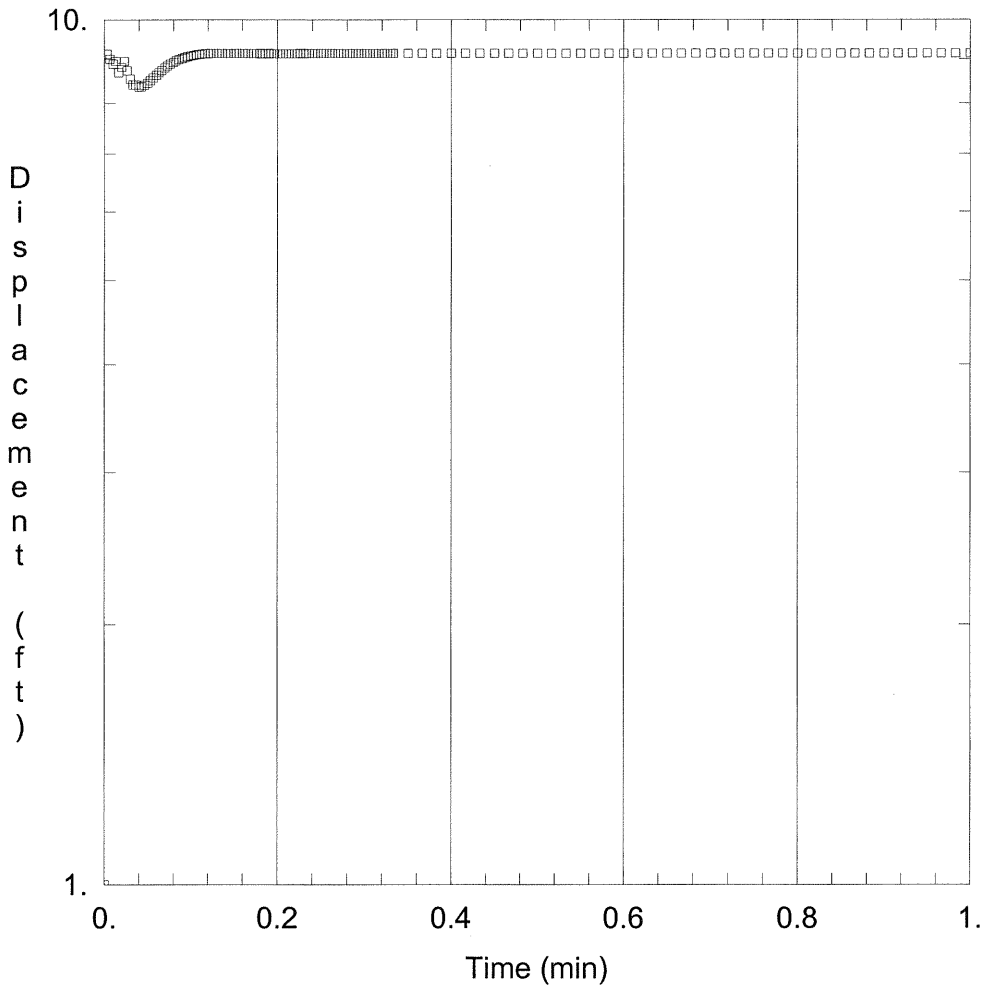
WELL DATA (HESE-01-18D)

Initial Displacement: 0.765 ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 45. ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 213.1 ft/day
y0 = 35.02 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-18D raw.aqt
Date: 05/17/02 Time: 11:20:16

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-18D
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 60. ft
Anisotropy Ratio (Kz/Kr): 1.

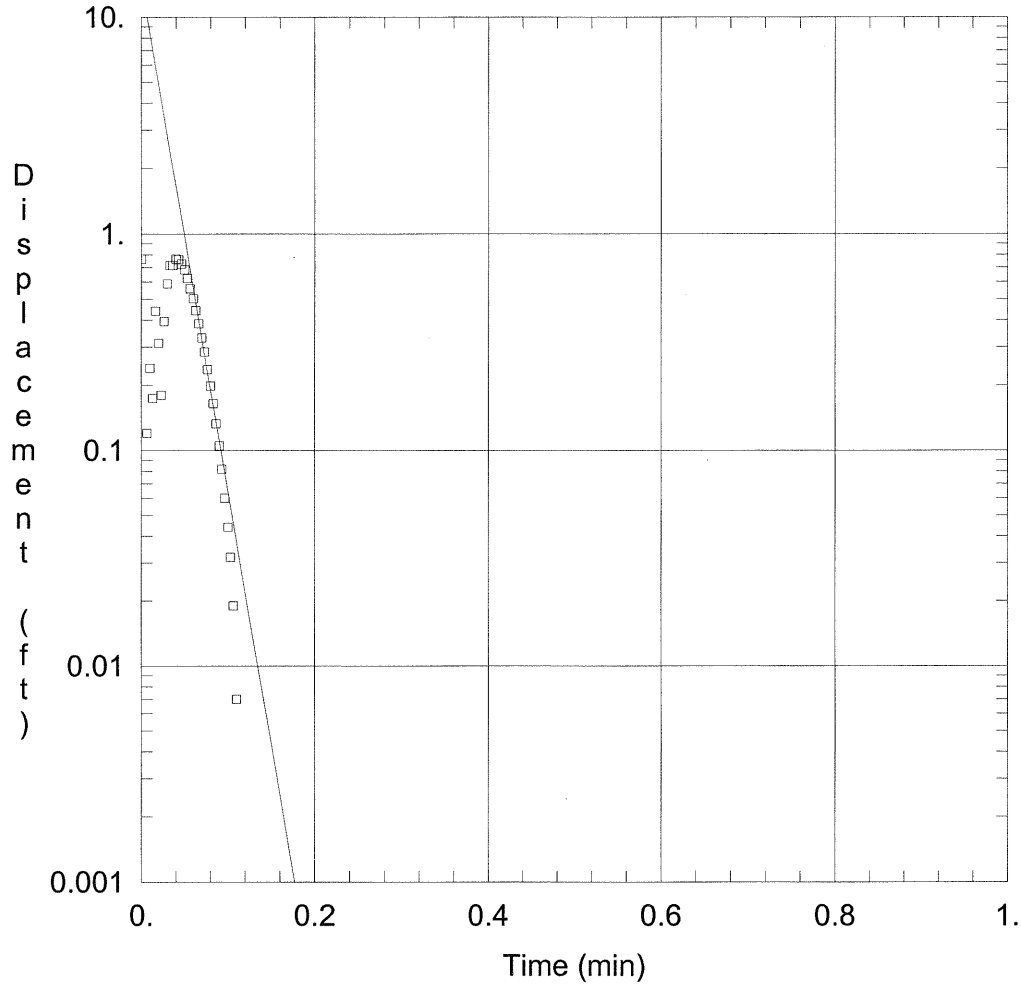
WELL DATA (HESE-01-18D)

Initial Displacement: 1. ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 45. ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 24. ft/day
y0 = 1. ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-18D rev1 hvorslev.aqt
Date: 05/17/02 Time: 11:18:14

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-18D
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 60. ft
Anisotropy Ratio (Kz/Kr): 1.

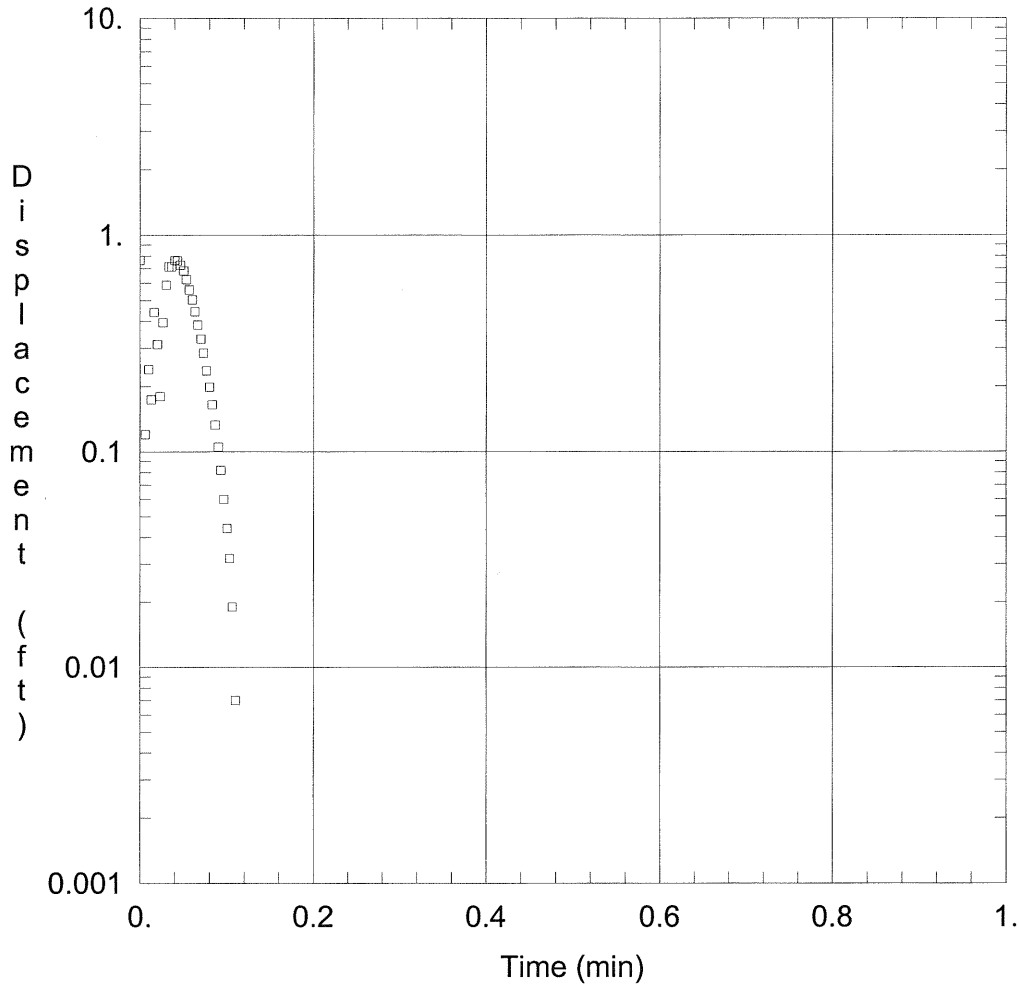
WELL DATA (HESE-01-18D)

Initial Displacement: 0.765 ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 45. ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 208.3 ft/day
y0 = 14.38 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\HESE-01-18D rev1.aqt
Date: 05/17/02 Time: 11:16:24

PROJECT INFORMATION

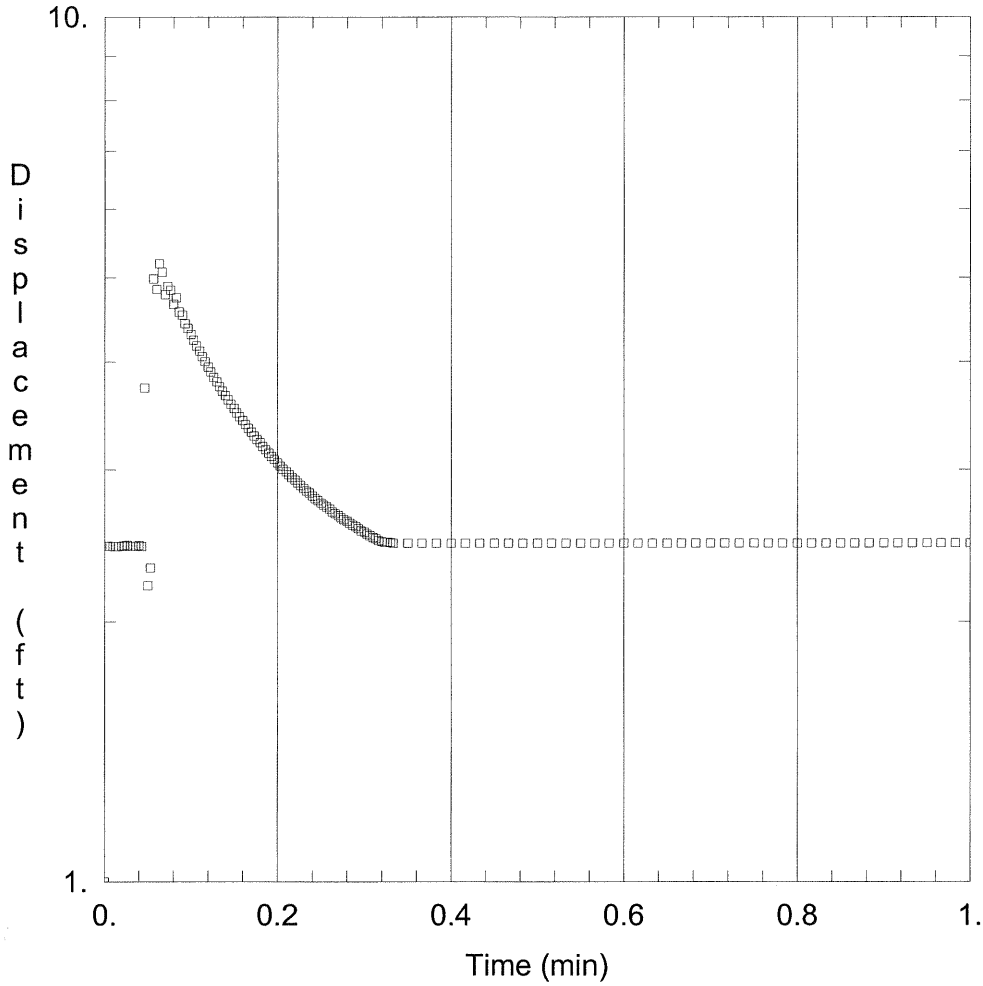
Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: HESE-01-18D
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 60. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (HESE-01-18D)

Initial Displacement: 0.765 ft
Casing Radius: 0.08 ft
Screen Length: 10. ft
Water Column Height: 45. ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\PZ-TF-01B raw.aqt
Date: 05/17/02 Time: 12:39:01

PROJECT INFORMATION

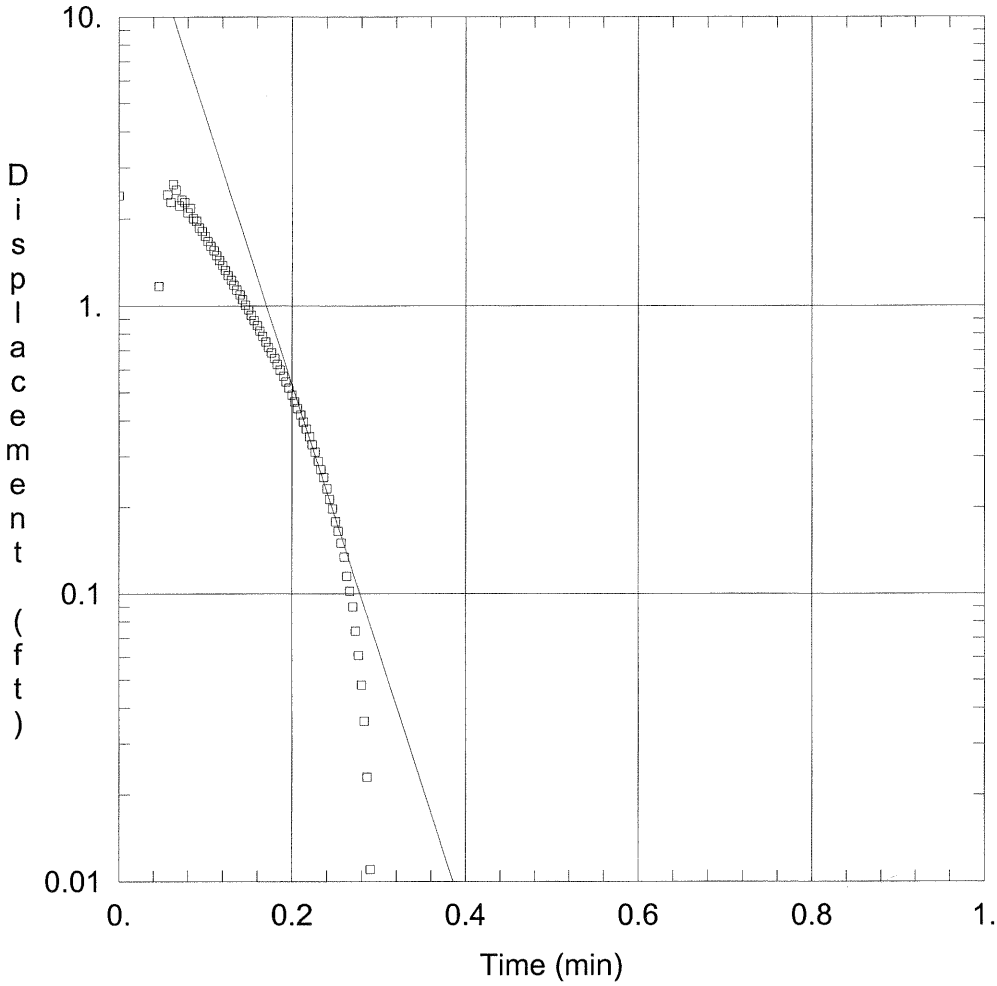
Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: PZ-TF-01B
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (PZ-TF-01B)

Initial Displacement: 1. ft
Casing Radius: 0.0625 ft
Screen Length: 10. ft
Water Column Height: 48. ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\PZ-TF-01B rev1 bouwer rice.aqt
Date: 05/17/02 Time: 12:46:11

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: PZ-TF-01B
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

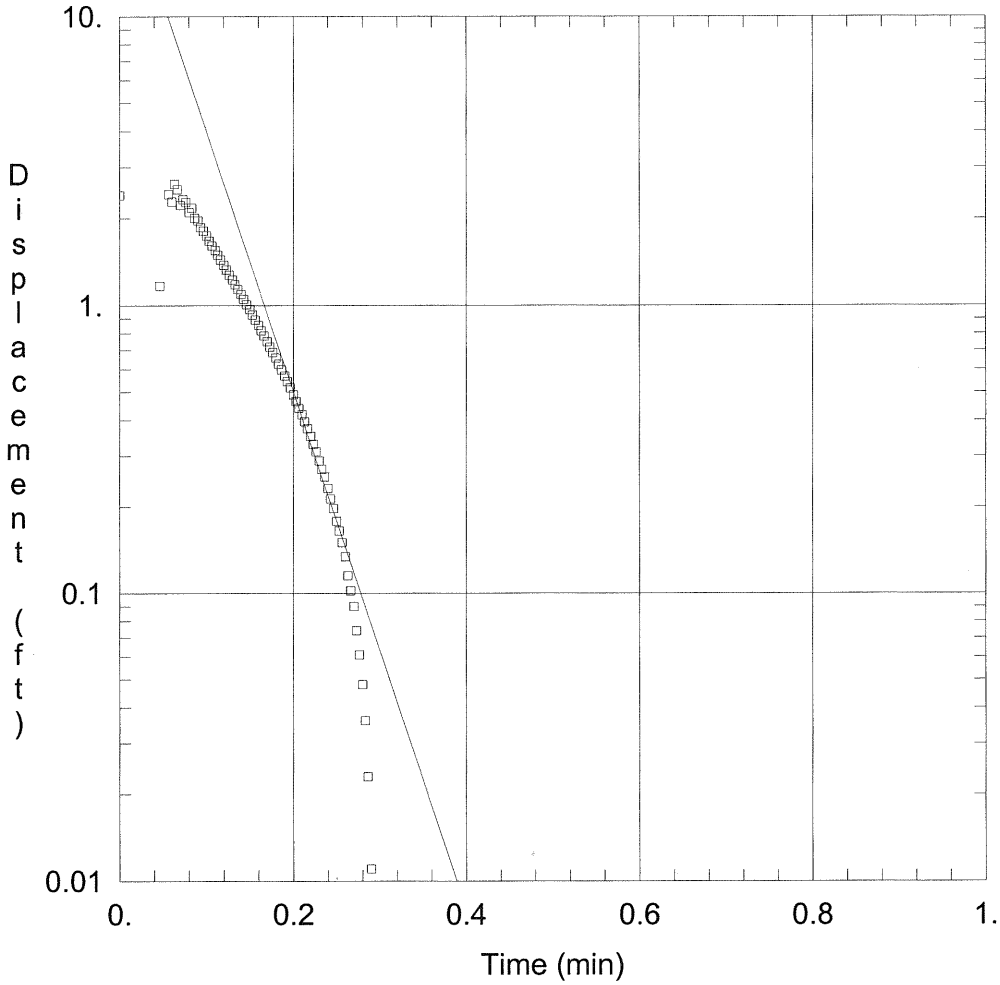
WELL DATA (PZ-TF-01B)

Initial Displacement: 2.4 ft
Casing Radius: 0.0625 ft
Screen Length: 10. ft
Water Column Height: 48. ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 57.94 ft/day
y0 = 38.79 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\PZ-TF-01B rev1 hvorslev.aqt
Date: 05/17/02 Time: 12:45:11

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: PZ-TF-01B
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

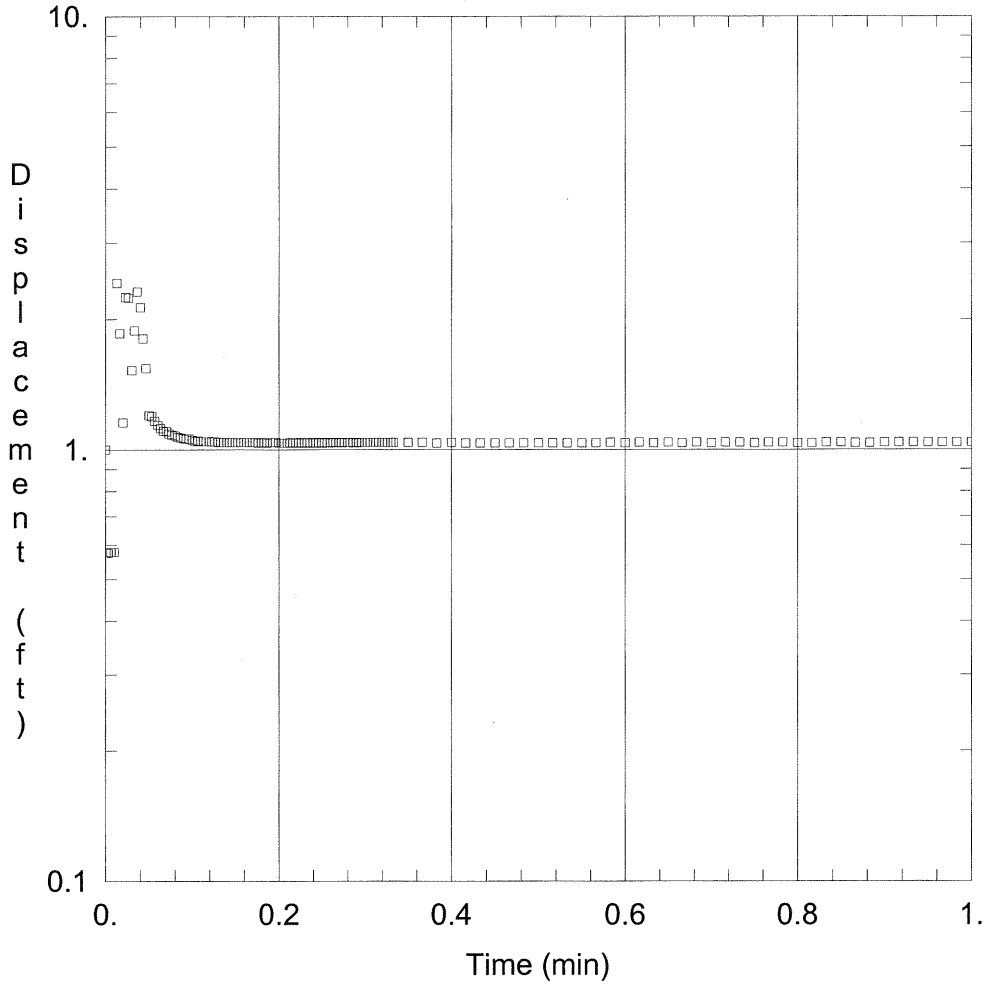
WELL DATA (PZ-TF-01B)

Initial Displacement: 2.4 ft
Casing Radius: 0.0625 ft
Screen Length: 10. ft
Water Column Height: 48. ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 69.35 ft/day
y0 = 31.78 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\PZ-TF-03A raw.aqt
Date: 05/17/02 Time: 12:43:22

PROJECT INFORMATION

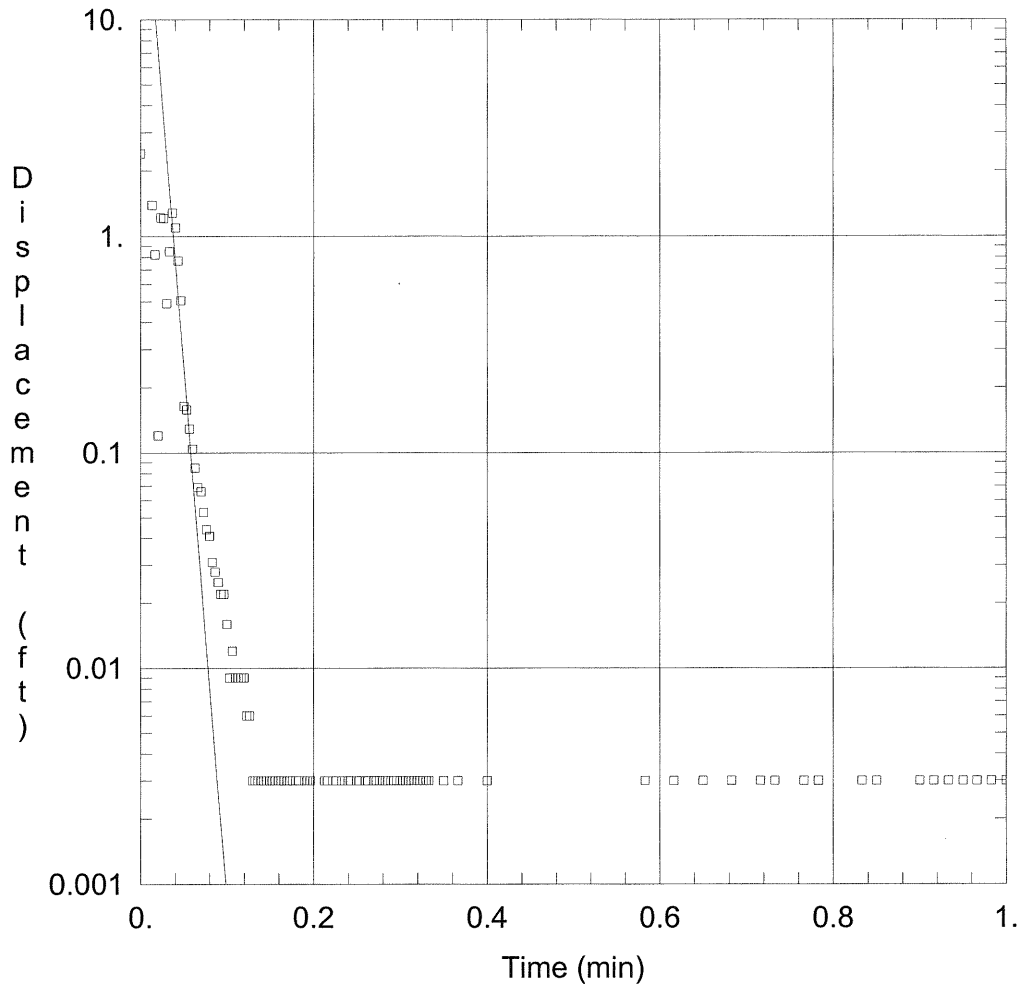
Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: PZ-TF-03B
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (PZ-TF-03B)

Initial Displacement: 1. ft
Casing Radius: 0.0625 ft
Screen Length: 10. ft
Water Column Height: 48. ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\PZ-TF-03A rev1 bouwer rice.aqt
Date: 05/17/02 Time: 12:42:27

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: PZ-TF-03B
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

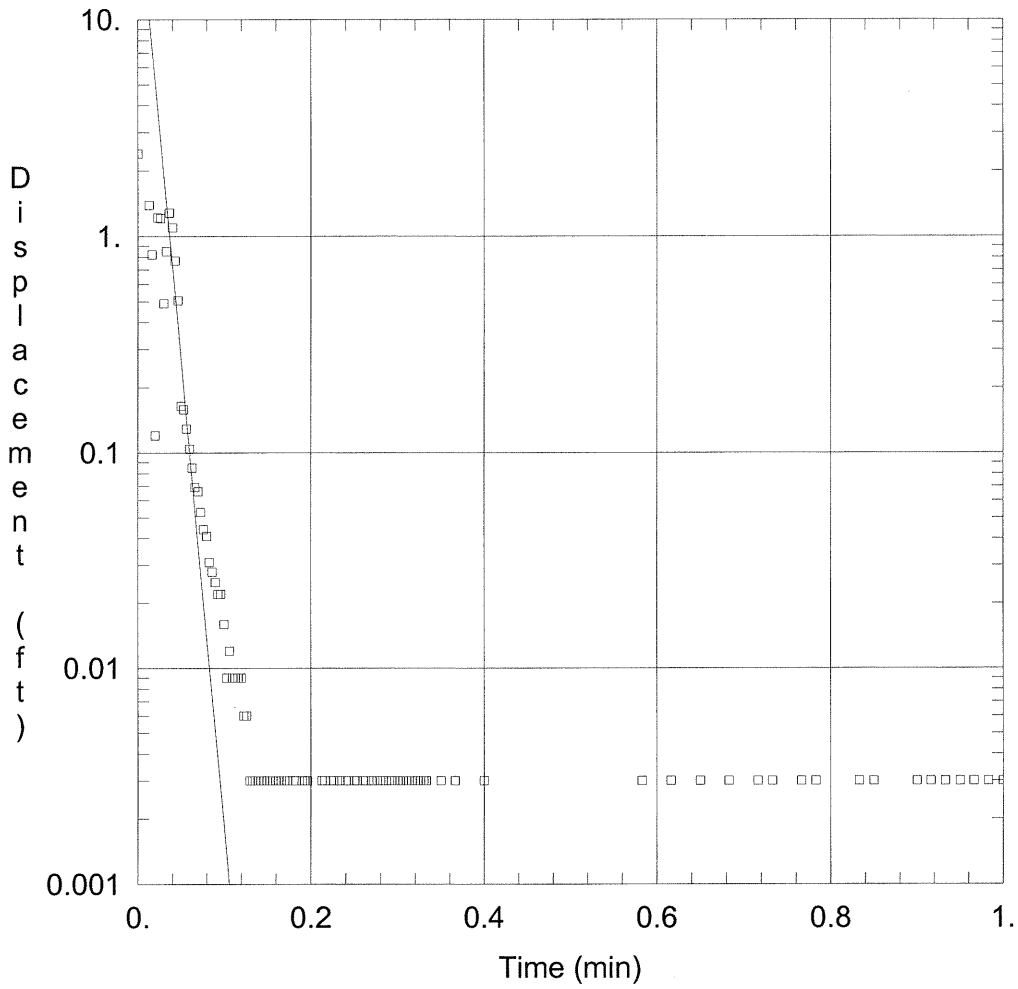
WELL DATA (PZ-TF-03B)

Initial Displacement: 2.4 ft
Casing Radius: 0.0625 ft
Screen Length: 10. ft
Water Column Height: 48. ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 304.5 ft/day
y0 = 68.36 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\PZ-TF-03A rev1 hvorslev.aqt
Date: 05/17/02 Time: 12:39:55

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: PZ-TF-03B
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 100. ft
Anisotropy Ratio (Kz/Kr): 1.

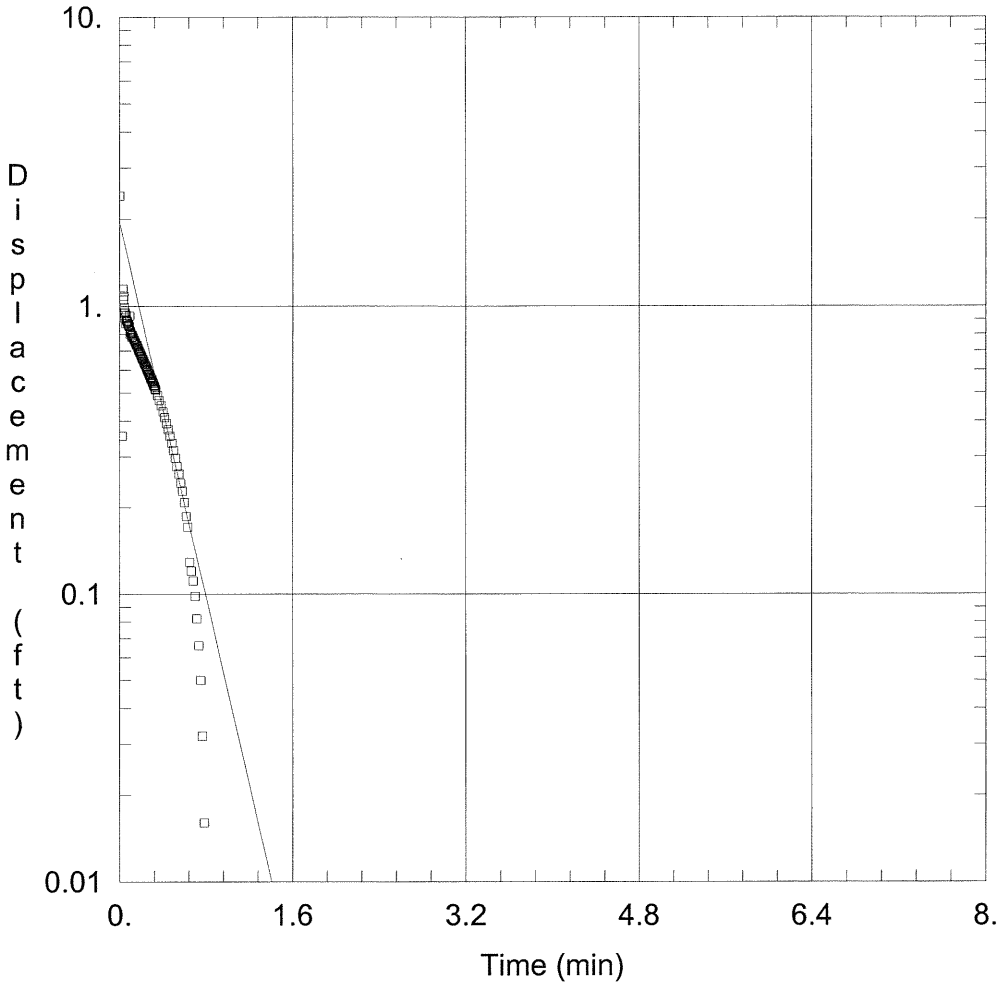
WELL DATA (PZ-TF-03B)

Initial Displacement: 2.4 ft
Casing Radius: 0.0625 ft
Screen Length: 10. ft
Water Column Height: 48. ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev

K = 331.3 ft/day
y0 = 38.25 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\PZ-TF-06B rev1 hvorslev.aqt
Date: 05/17/02 Time: 12:36:10

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: PZ-TF-06B
Test Date: 5/6/02

AQUIFER DATA

Saturated Thickness: 60. ft
Anisotropy Ratio (Kz/Kr): 1.

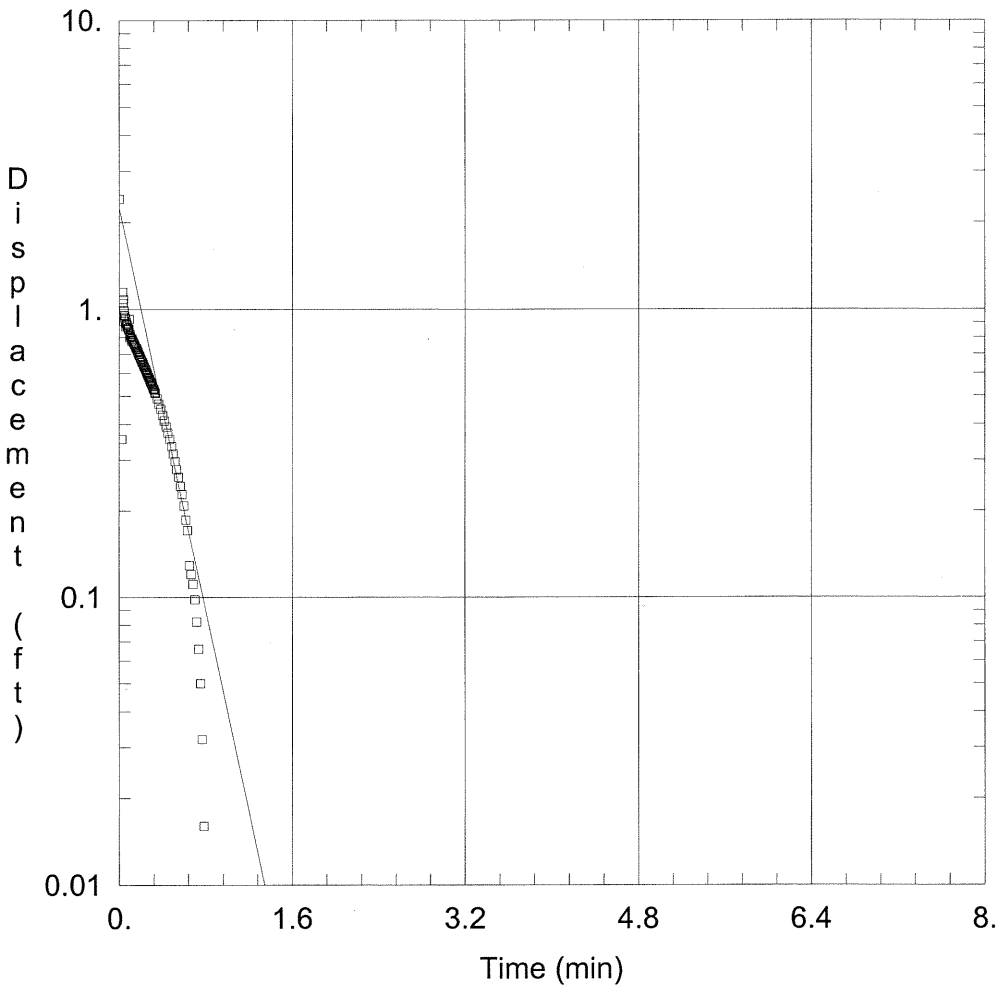
WELL DATA (PZ-TF-06B)

Initial Displacement: 2.4 ft
Water Column Height: 48. ft
Casing Radius: 0.0625 ft
Wellbore Radius: 0.17 ft
Screen Length: 10. ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 12.52 ft/day
y0 = 1.946 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\PZ-TF-06B rev1 bouwer rice.aqt
Date: 05/17/02 Time: 12:37:09

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: PZ-TF-06B
Test Date: 5/6/02

AQUIFER DATA

Saturated Thickness: 60. ft
Anisotropy Ratio (Kz/Kr): 1.

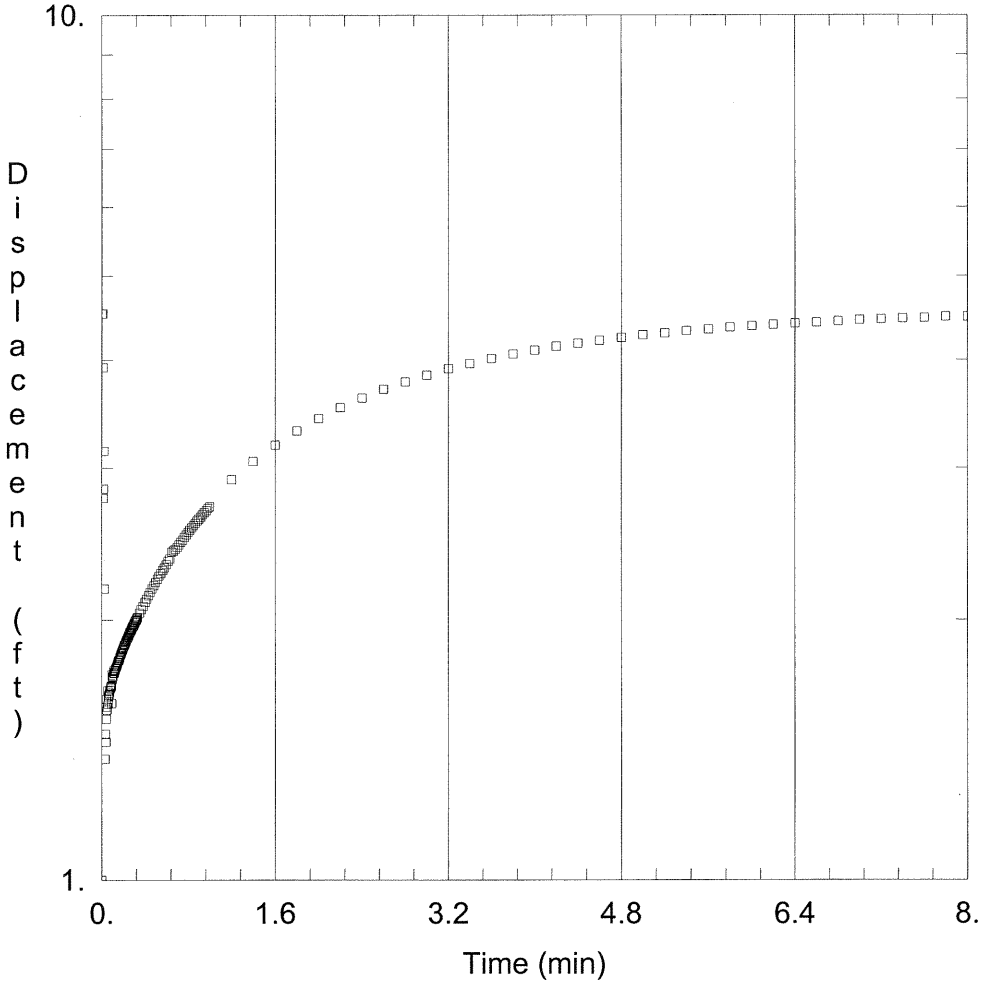
WELL DATA (PZ-TF-06B)

Initial Displacement: 2.4 ft
Water Column Height: 48. ft
Casing Radius: 0.0625 ft
Wellbore Radius: 0.17 ft
Screen Length: 10. ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 11.38 ft/day
y0 = 2.242 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\PZ-TF-06B raw.aqt
Date: 05/17/02 Time: 12:38:05

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: PZ-TF-06B
Test Date: 5/6/02

AQUIFER DATA

Saturated Thickness: 60. ft
Anisotropy Ratio (Kz/Kr): 1.

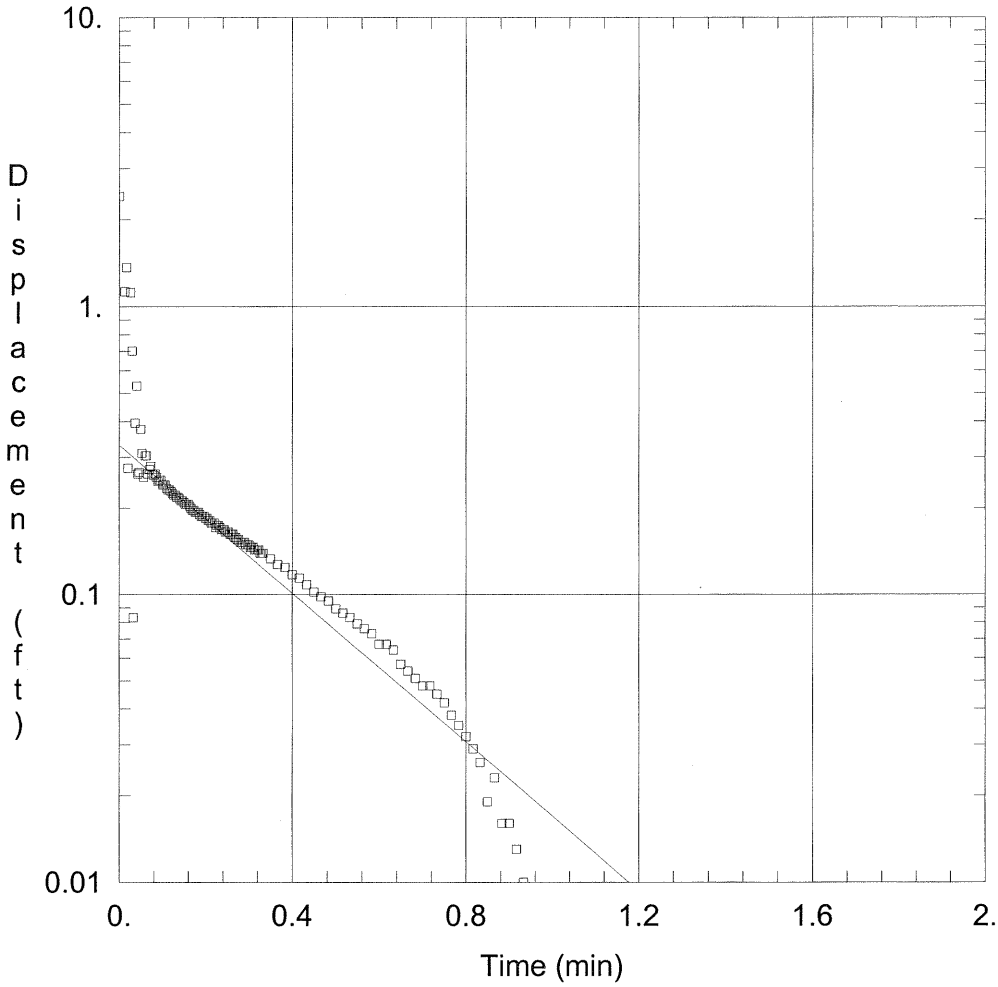
WELL DATA (PZ-TF-06B)

Initial Displacement: 1. ft
Water Column Height: 48. ft
Casing Radius: 0.0625 ft
Wellbore Radius: 0.17 ft
Screen Length: 10. ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 24. ft/day
y0 = 1. ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\PZ-TF-07A rev1 bouwer rice.aqt
Date: 05/17/02 Time: 12:33:25

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: PZ-TF-07A
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 60. ft
Anisotropy Ratio (Kz/Kr): 1.

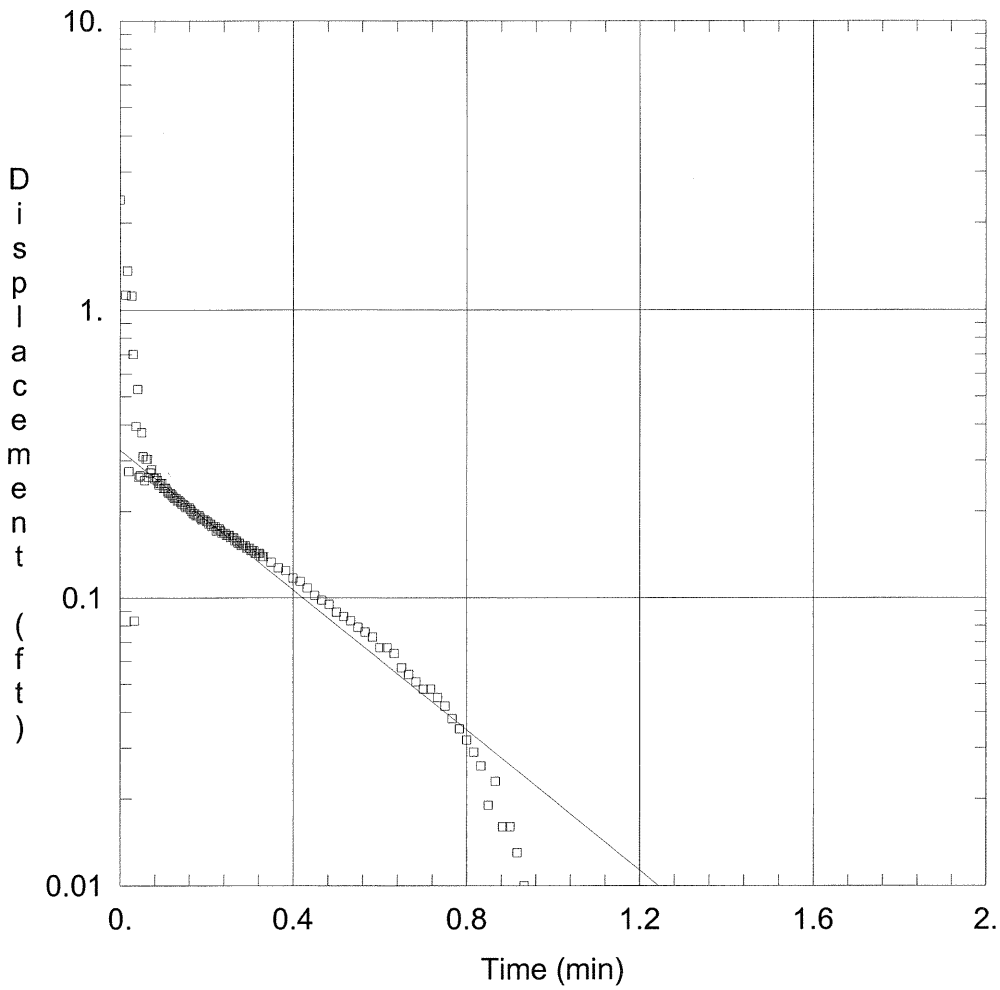
WELL DATA (PZ-TF-07A)

Initial Displacement: 2.4 ft
Casing Radius: 0.0625 ft
Screen Length: 10. ft
Water Column Height: 14. ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 6.834 ft/day
y0 = 0.3309 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\PZ-TF-07A rev1 hvorslev.aqt
Date: 05/17/02 Time: 12:31:35

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: PZ-TF-07A
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 60. ft
Anisotropy Ratio (Kz/Kr): 1.

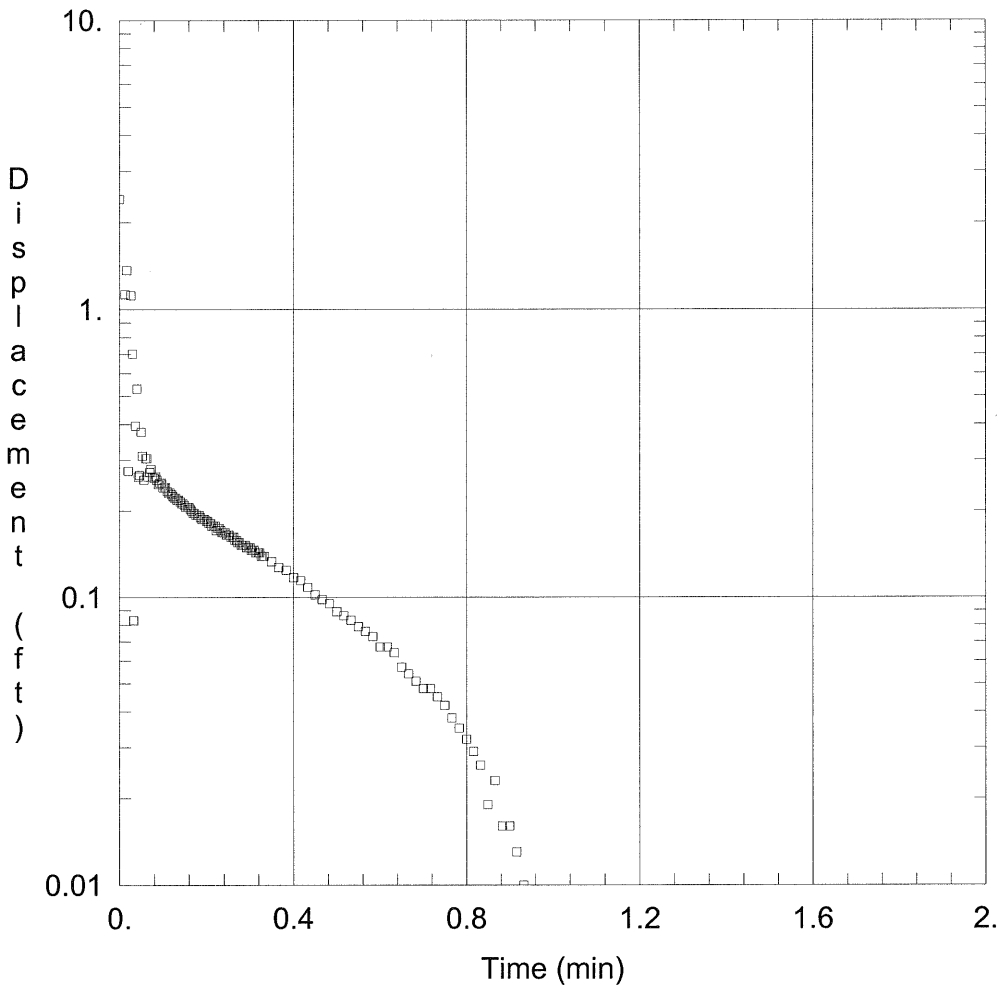
WELL DATA (PZ-TF-07A)

Initial Displacement: 2.4 ft
Casing Radius: 0.0625 ft
Screen Length: 10. ft
Water Column Height: 14. ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev

K = 9.378 ft/day
y0 = 0.3267 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\PZ-TF-07A rev1.aqt
Date: 05/17/02 Time: 12:30:26

PROJECT INFORMATION

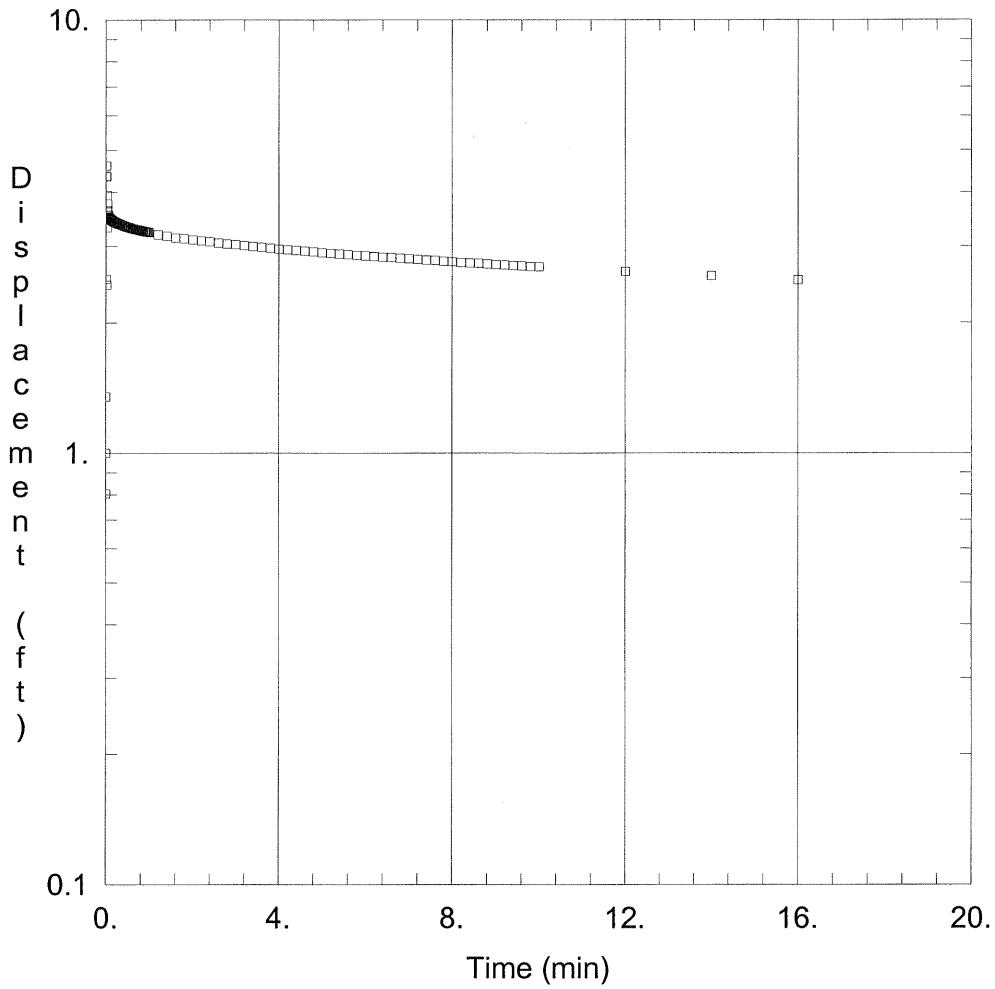
Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: PZ-TF-07A
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 60. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (PZ-TF-07A)

Initial Displacement: 2.4 ft
Casing Radius: 0.0625 ft
Screen Length: 10. ft
Water Column Height: 14. ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\PZ-TF-07A raw.aqt
Date: 05/17/02 Time: 12:34:21

PROJECT INFORMATION

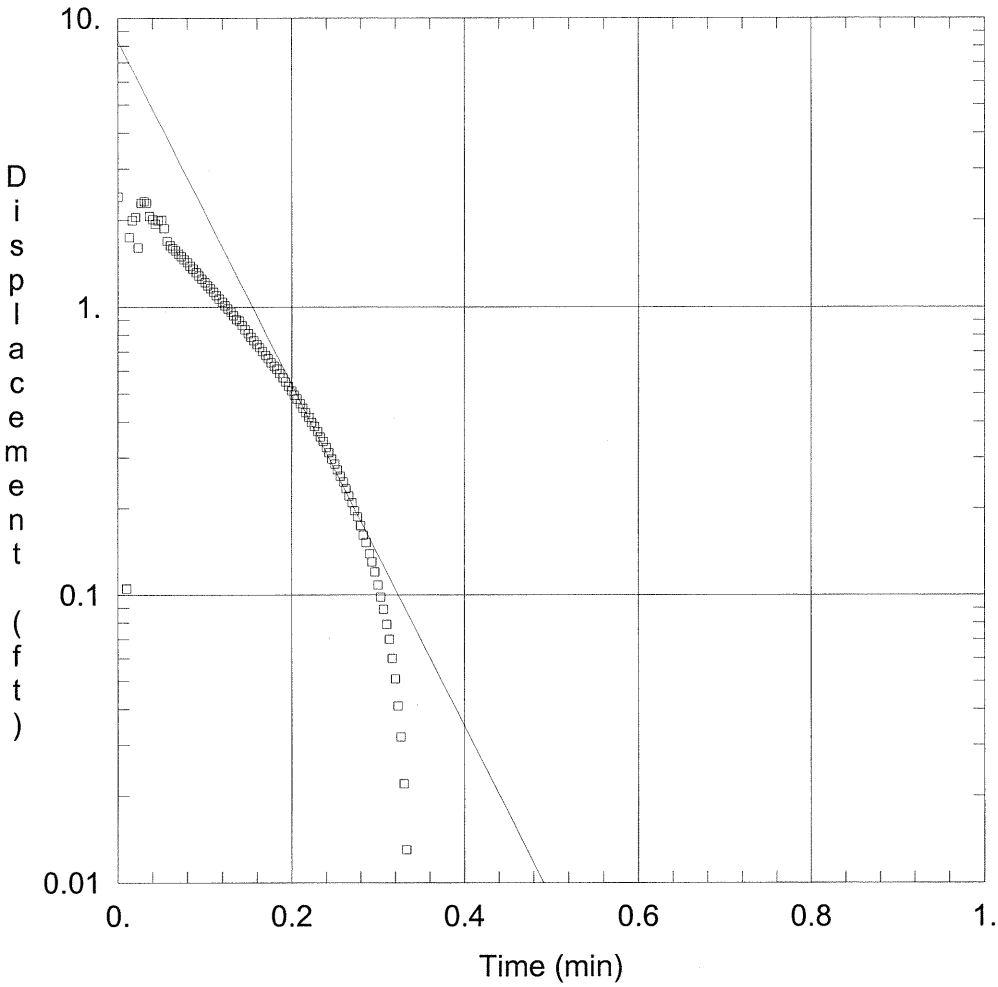
Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: PZ-TF-07A
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 60. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (PZ-TF-07A)

Initial Displacement: 1. ft
Casing Radius: 0.0625 ft
Screen Length: 10. ft
Water Column Height: 14. ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\PZ-TF-07B rev1 bouwer rice.aqt
Date: 05/17/02 Time: 12:28:26

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: PZ-TF-07B
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 60. ft
Anisotropy Ratio (Kz/Kr): 1.

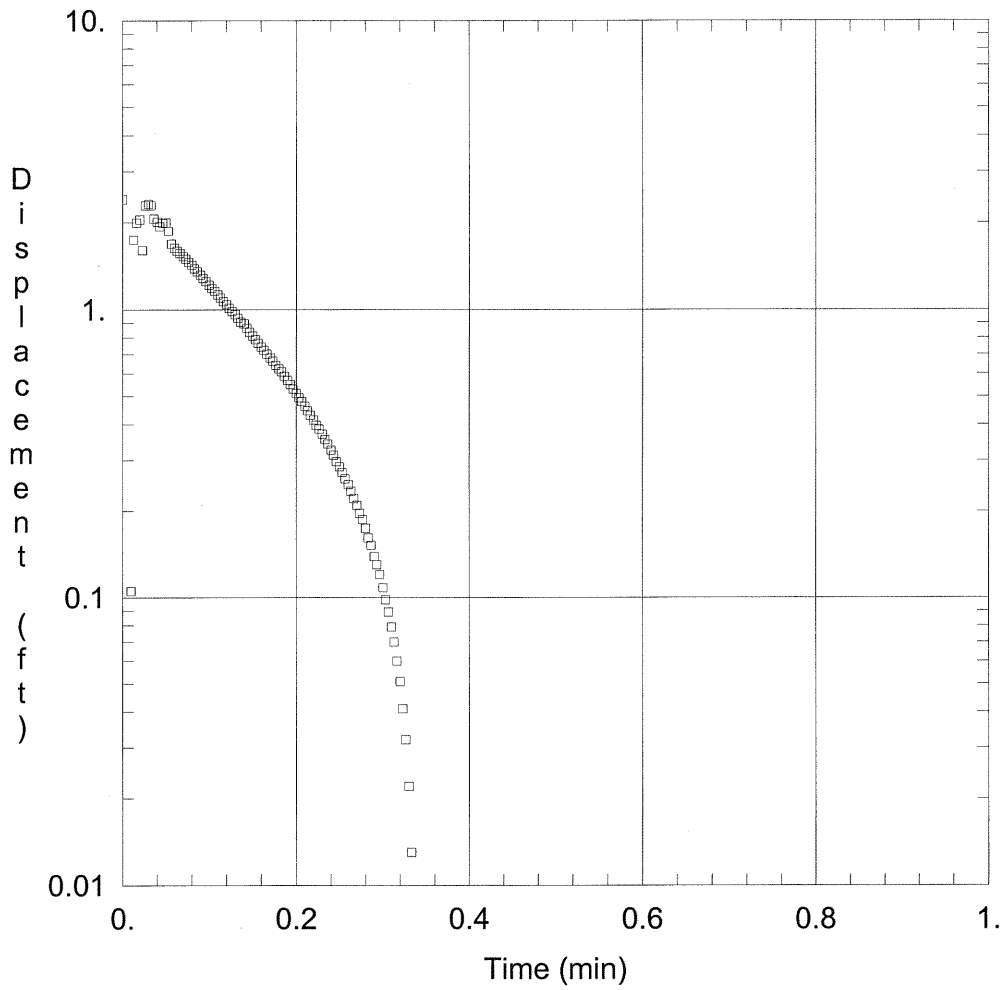
WELL DATA (PZ-TF-07B)

Initial Displacement: 2.4 ft
Casing Radius: 0.0625 ft
Screen Length: 10. ft
Water Column Height: 48. ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 38.66 ft/day
y0 = 8.317 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\PZ-TF-07B rev1.aqt
Date: 05/17/02 Time: 12:22:57

PROJECT INFORMATION

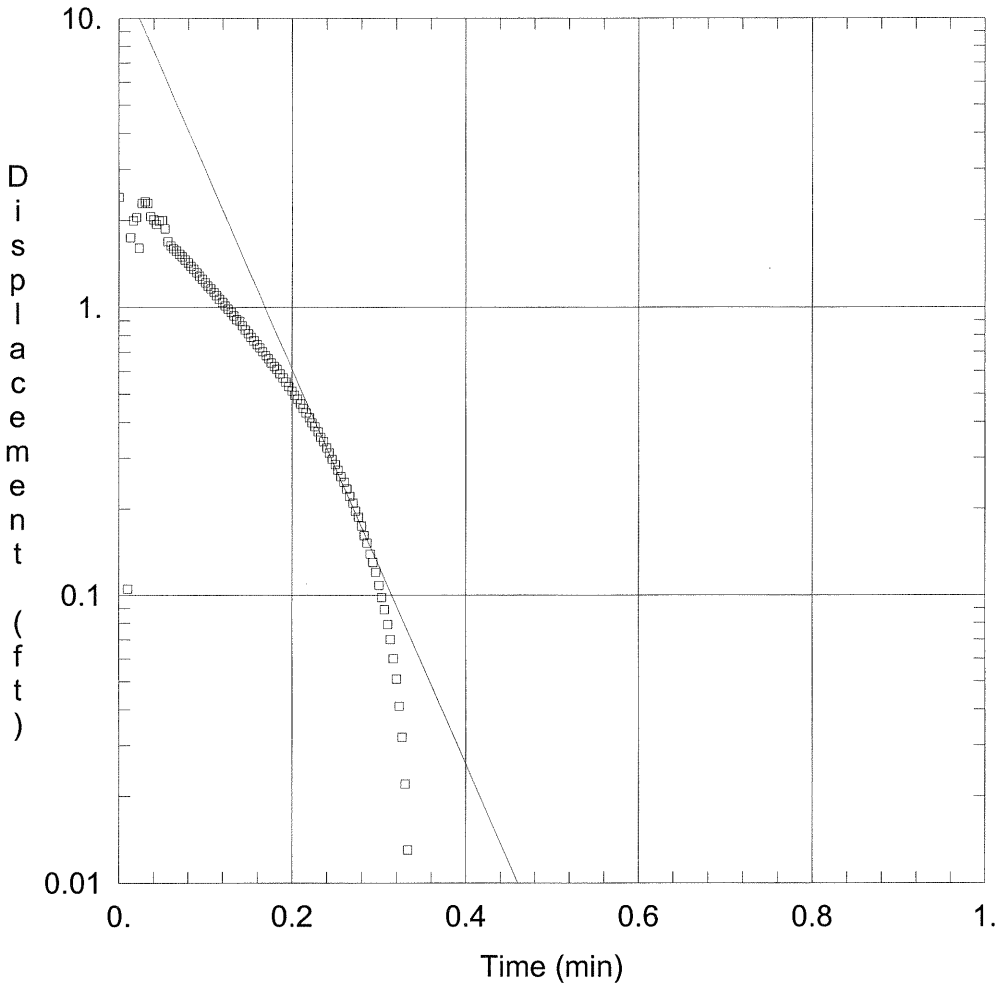
Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: PZ-TF-07B
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 60. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (PZ-TF-07B)

Initial Displacement: 2.4 ft
Casing Radius: 0.0625 ft
Screen Length: 10. ft
Water Column Height: 48. ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\PZ-TF-07B rev1 hvorslev.aqt
Date: 05/17/02 Time: 12:27:30

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: PZ-TF-07B
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 60. ft
Anisotropy Ratio (Kz/Kr): 1.

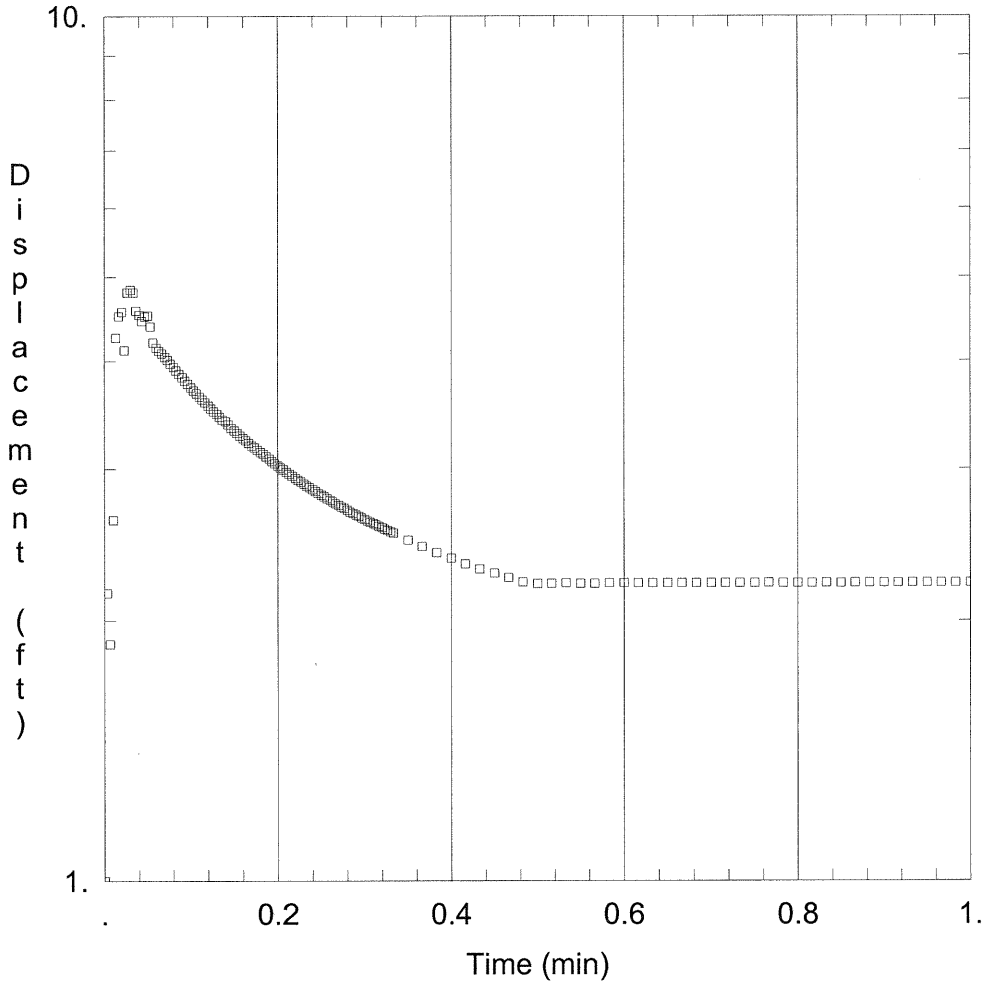
WELL DATA (PZ-TF-07B)

Initial Displacement: 2.4 ft
Casing Radius: 0.0625 ft
Screen Length: 10. ft
Water Column Height: 48. ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 52.95 ft/day
y0 = 14.51 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\PZ-TF-07B raw.aqt
Date: 05/17/02 Time: 12:29:20

PROJECT INFORMATION

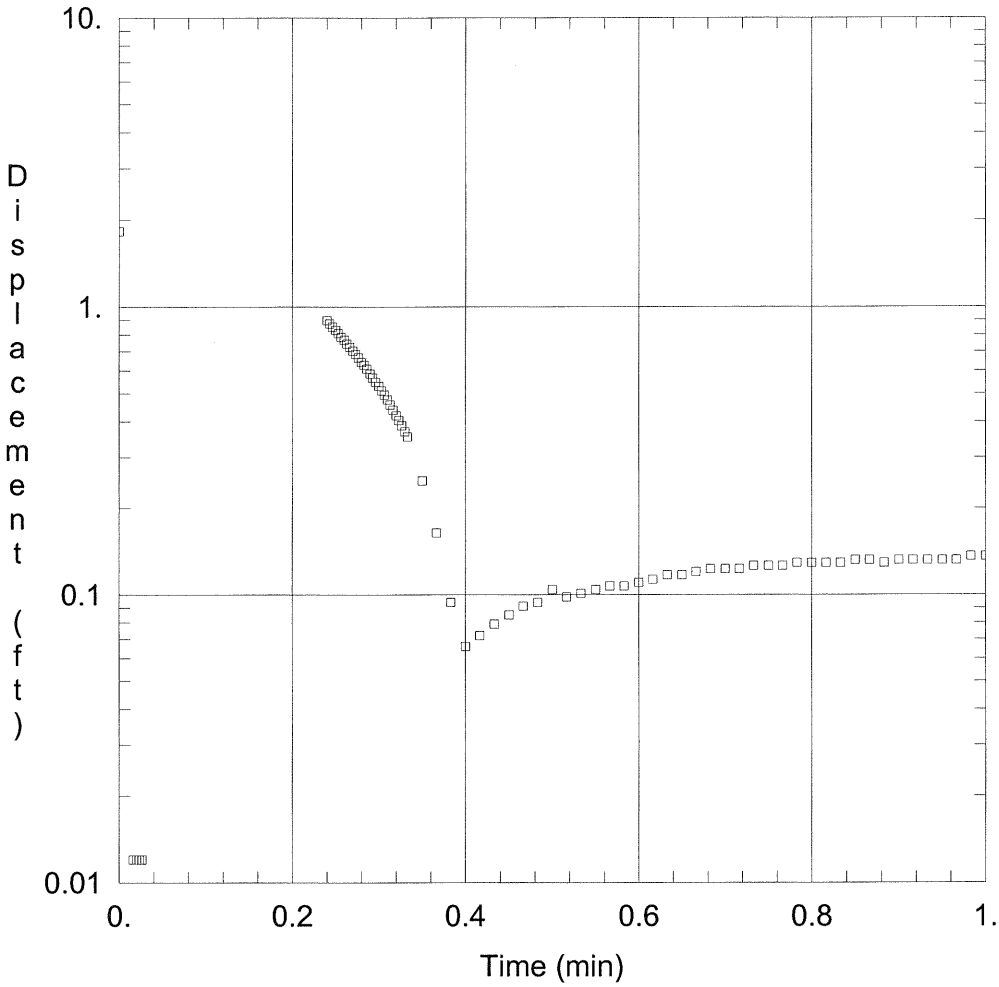
Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: PZ-TF-07B
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 60. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (PZ-TF-07B)

Initial Displacement: 1. ft
Casing Radius: 0.0625 ft
Screen Length: 10. ft
Water Column Height: 48. ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\PZ-TF-08A rev1.aqt
Date: 05/17/02 Time: 12:18:32

PROJECT INFORMATION

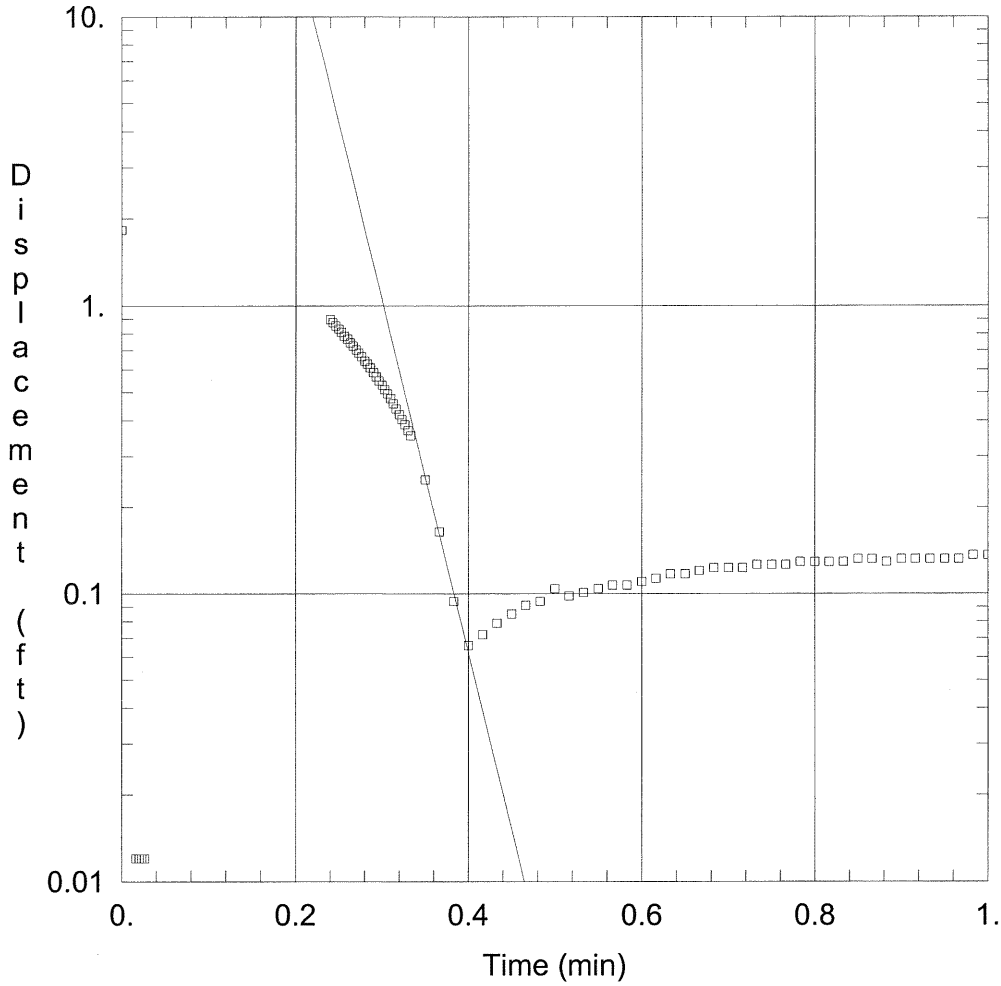
Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: PZ-TF-08A
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 60. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (PZ-TF-08A)

Initial Displacement: 1.82 ft
Casing Radius: 0.0625 ft
Screen Length: 10. ft
Water Column Height: 48. ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\PZ-TF-08A rev1 hvorslev.aqt
Date: 05/17/02 Time: 12:19:25

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: PZ-TF-08A
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 60. ft
Anisotropy Ratio (Kz/Kr): 1.

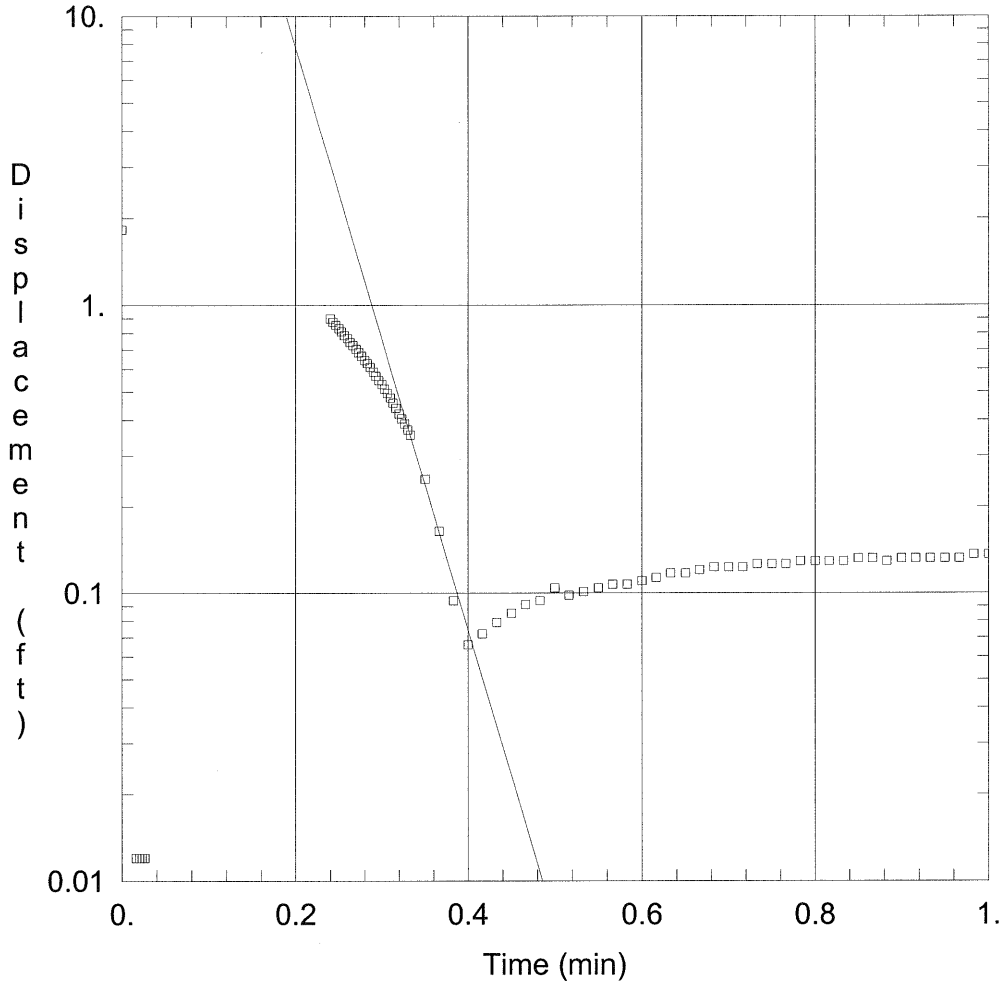
WELL DATA (PZ-TF-08A)

Initial Displacement: 1.82 ft
Casing Radius: 0.0625 ft
Screen Length: 10. ft
Water Column Height: 48. ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev

K = 94.35 ft/day
y0 = 4941.7 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\PZ-TF-08A rev1 bouwer rice.aqt
Date: 05/17/02 Time: 12:21:12

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: PZ-TF-08A
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 60. ft
Anisotropy Ratio (Kz/Kr): 1.

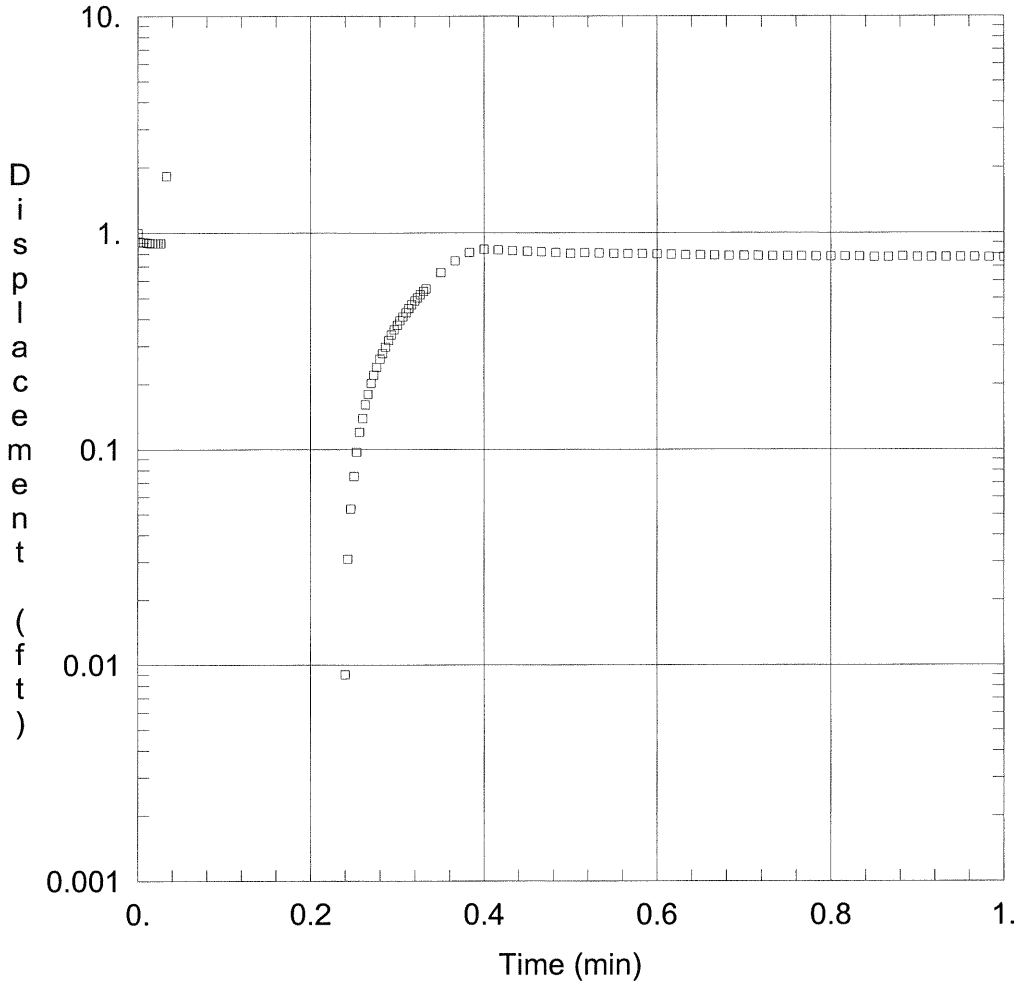
WELL DATA (PZ-TF-08A)

Initial Displacement: 1.82 ft
Casing Radius: 0.0625 ft
Screen Length: 10. ft
Water Column Height: 48. ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Bouwer-Rice

K = 65.81 ft/day
y0 = 819. ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\PZ-TF-08A raw.aqt
Date: 05/17/02 Time: 12:22:05

PROJECT INFORMATION

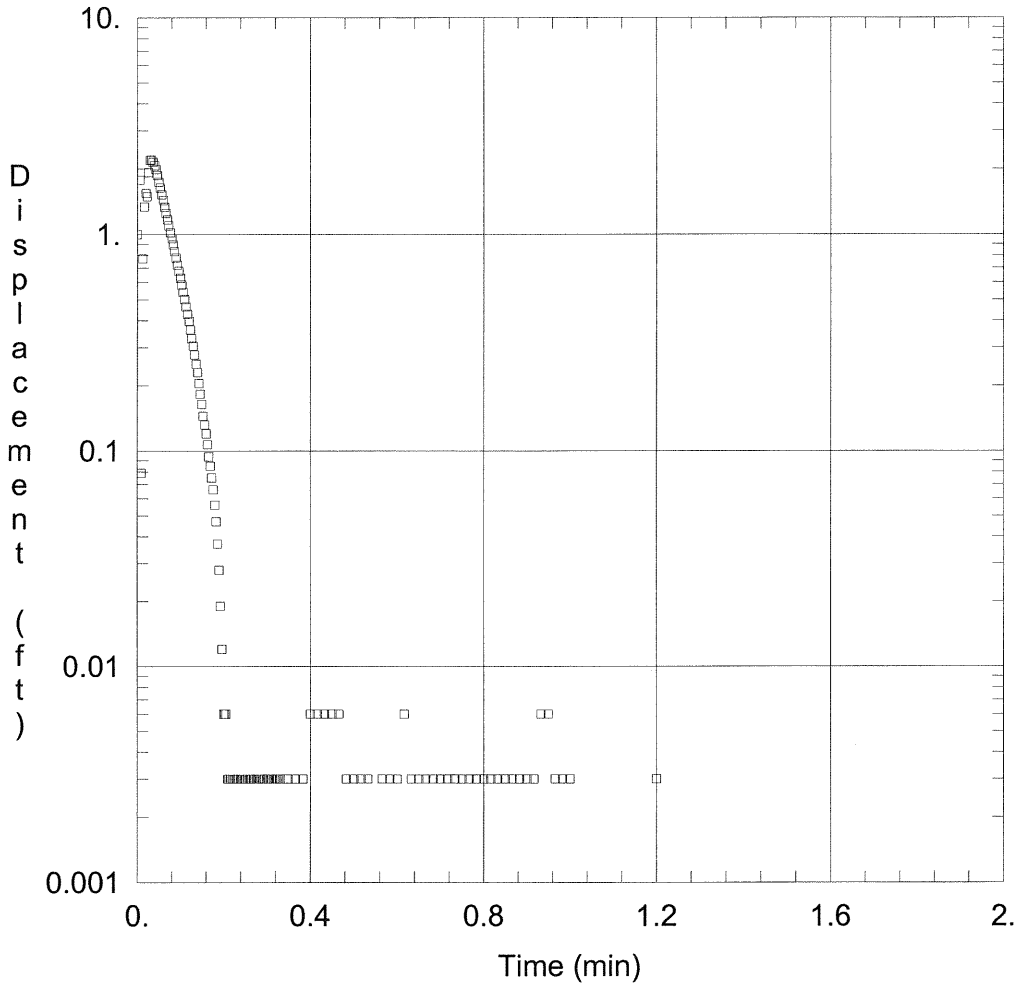
Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: PZ-TF-08A
Test Date: 5/7/02

AQUIFER DATA

Saturated Thickness: 60. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (PZ-TF-08A)

Initial Displacement: 1. ft
Casing Radius: 0.0625 ft
Screen Length: 10. ft
Water Column Height: 48. ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\PZ-TF-10B rev1.aqt
Date: 05/17/02 Time: 12:14:42

PROJECT INFORMATION

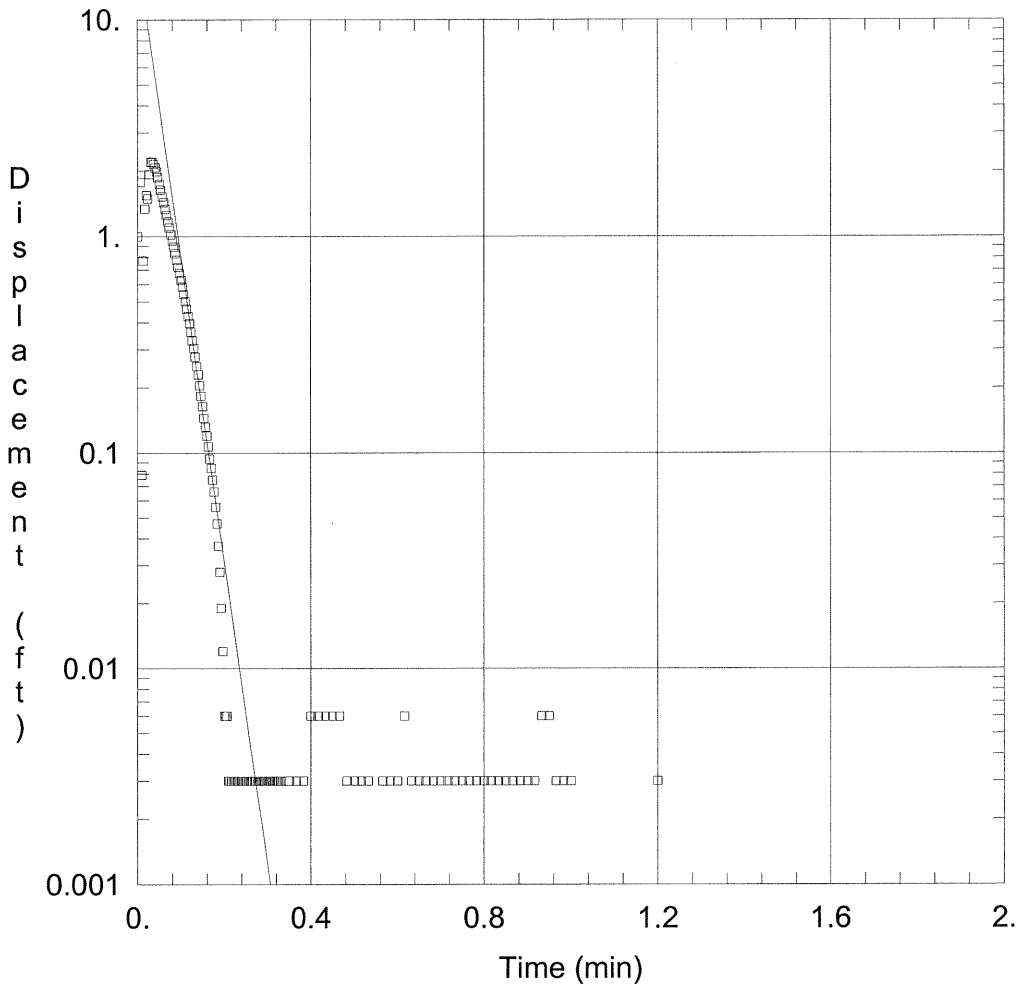
Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: PZ-TF-10B
Test Date: 5/6/02

AQUIFER DATA

Saturated Thickness: 60. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (PZ-TF-10B)

Initial Displacement: 1. ft
Casing Radius: 0.0625 ft
Screen Length: 10. ft
Water Column Height: 48. ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\PZ-TF-10B rev1 hvorslev.aqt
Date: 05/17/02 Time: 12:15:53

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: PZ-TF-10B
Test Date: 5/6/02

AQUIFER DATA

Saturated Thickness: 60. ft
Anisotropy Ratio (Kz/Kr): 1.

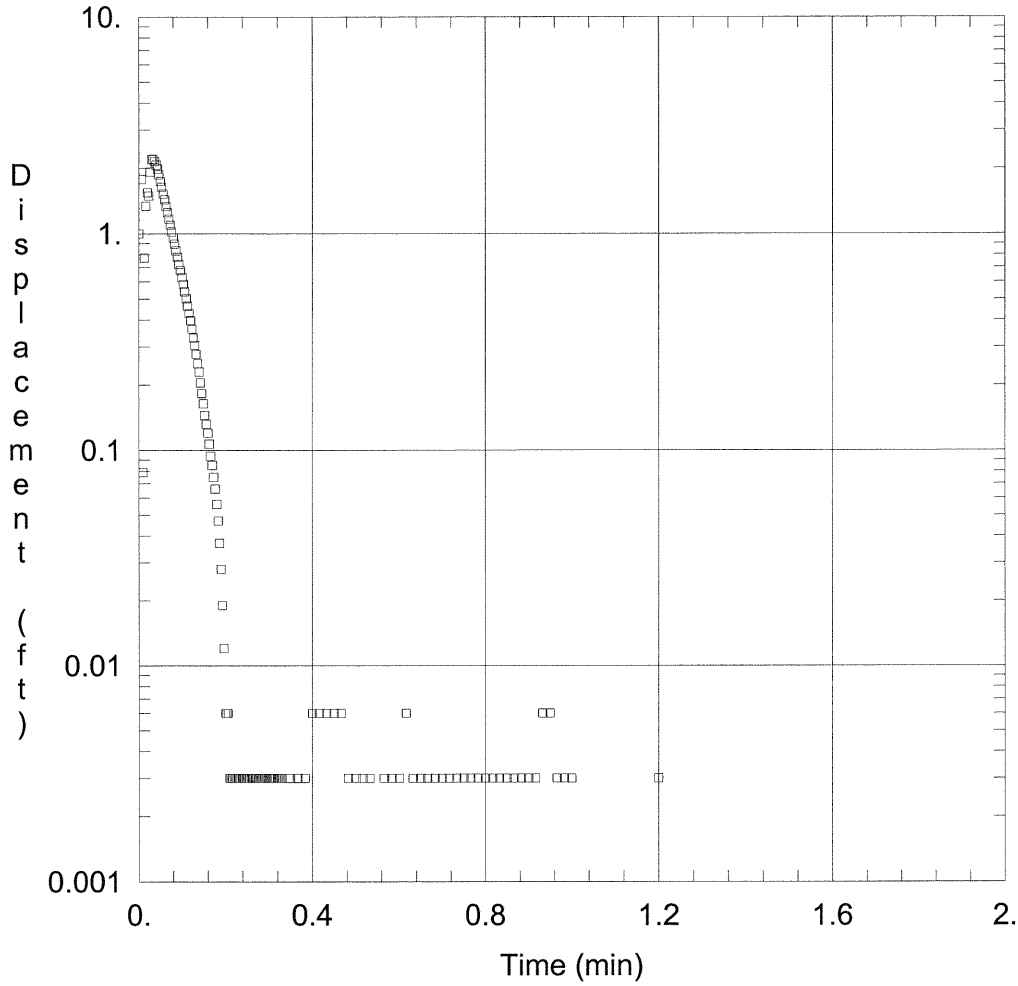
WELL DATA (PZ-TF-10B)

Initial Displacement: 1. ft
Casing Radius: 0.0625 ft
Screen Length: 10. ft
Water Column Height: 48. ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 108.3 ft/day
y0 = 20.13 ft



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\PZ-TF-10B raw.aqt
Date: 05/17/02 Time: 12:17:40

PROJECT INFORMATION

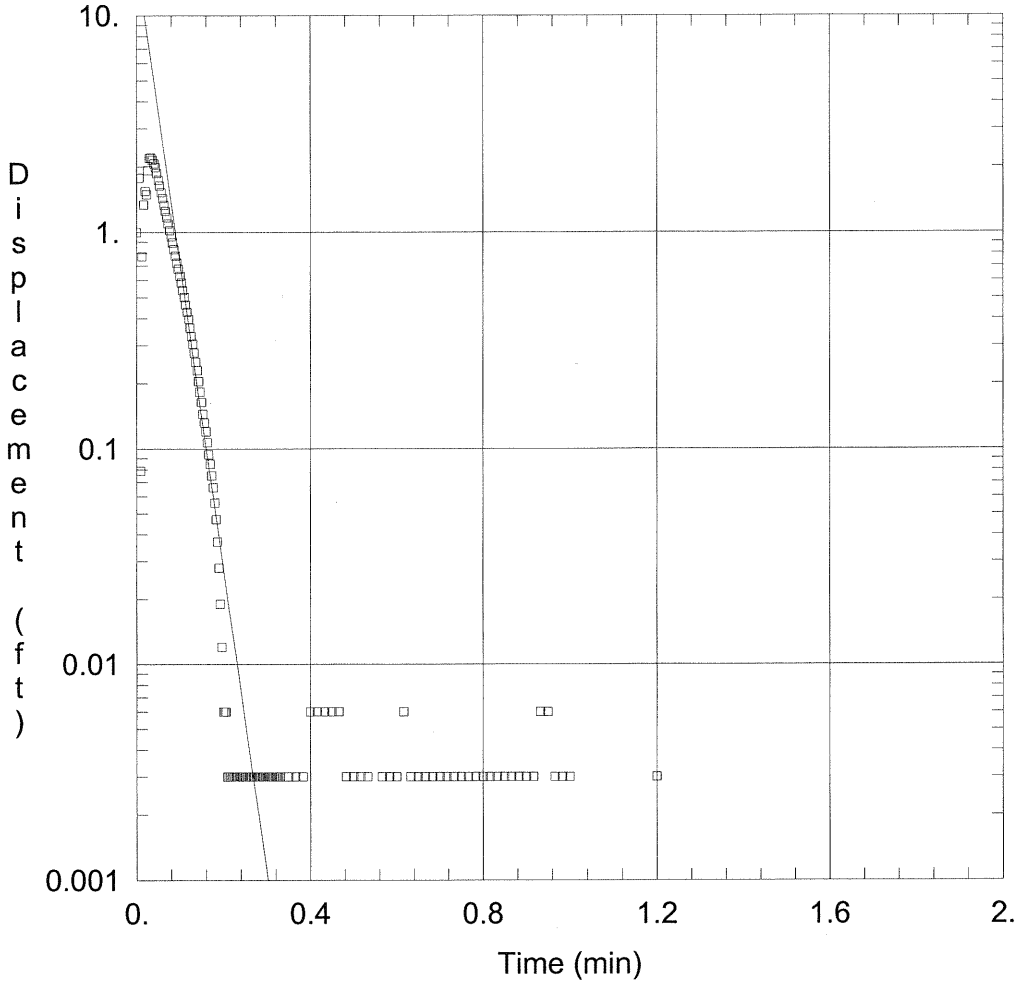
Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: PZ-TF-10B
Test Date: 5/6/02

AQUIFER DATA

Saturated Thickness: 60. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (PZ-TF-10B)

Initial Displacement: 1. ft
Casing Radius: 0.0625 ft
Screen Length: 10. ft
Water Column Height: 48. ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3



WELL TEST ANALYSIS

Data Set: C:\SAEP Perm Test Data\PZ-TF-10B rev1 bouwer rice.aqt
Date: 05/17/02 Time: 12:16:47

PROJECT INFORMATION

Company: Harding ESE
Client: SAEP
Project: 52985.02
Test Location: Stratford, CT
Test Well: PZ-TF-10B
Test Date: 5/6/02

AQUIFER DATA

Saturated Thickness: 60. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (PZ-TF-10B)

Initial Displacement: 1. ft
Casing Radius: 0.0625 ft
Screen Length: 10. ft
Water Column Height: 48. ft
Wellbore Radius: 0.17 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 91.73 ft/day
y0 = 18.33 ft