N00213.AR.000129
NAS KEY WEST
5090.3a

HYDRAULIC CONDUCTIVITIES AND SLUG TEST DATA FOR MONITORING WELLS AT TRUMBO POINT NAS KEY WEST FL

8/9/1995

BECHTEL ENVIRONMENTAL INC

BOOK SHELF COPY
Do Not Remove
See Debbie Pyron or
Susan Collins

Sheet1

006674
0050

Well ID	Top of Product	Top of Water	Product Thkns	Notes
KWM23	3.59	5.42	1.83	
MW9-15	4.71	8.59	3.88	
MW9-16	3.69	7.71	4.02	
MW9-17	3.29	7.76	4.47	
MW9-14	NM	NM	NA	Probe (capsuhelic?) in well
MW9-13	None	4.24	0	
KWM23?	NM	NM	NA	Could not locate
MW9-12	6	NM	0	Probe coated with bunker oil
MW9-11	None	7.51	0	3.2 ft stickup
KWM24	3.67	4.54	0.87	
KWM04	NM	NM	NA	Could not locate
KWM01	3	3.02	0.02	
MW3D	None	6.4	0	
Firewell	5.54	5.57	0.03	
MW9-10	7.18	7.39	0.21	3.2 ft stickup
MW2D	5.92	5.93	0.01	
	NM	NM	NA	UnID'd well NE corner site, locked
MWJP-1	5.95	7.1	1.15	2.09 ft stickup
	NM	NM	NA	UnID'd well S of tank 1, locked
KWM21	None	4.16	0	
KWM07	Trace	3.72	Trace	Probe covered w/ sheen, did not register
KWM20	4.53	4.58	0.05	
KWM22	5.48	7.68	2.2	Well compromised, no seal or riser cap
	6.5	7.48	0.98	UnID'd well S of tank 2, 2.88 ft stickup
KWM09	None	4.53	0	
KWM08	NM	NM	NA	Could not locate
MW10	None	6.3	0	
KWM02	None	4.91	0	
KWM10	NM	NM	NA	Could not locate
KWM05	NM	NM	NA	Could not locate
All Depths and thicknesses in feet				
All measurements in feet below top of riser				

TtNUS
AIK

4208

006674

CALCULATION COVER SHEET

PROJECT	JOB NO.	CALC. NO.	SHEET 1
NAVYRAC - KEY WEST	22567	322-G-001	

SUBJECT	DISCIPLINE
TRUMBO POINT HYDRAULIC CONDUCTIVITIES	G&HES

CALCULATION STATUS DESIGNATION	PRELIMINARY	CONFIRMED	SUPERSEDED	VOIDED
		X		

COMPUTER PROGRAM / TYPE	SCP YES	SCP NO	MAINFRAME PC	PROGRAM NO,	VERSION / RELEASE NO.
AQTESOLV	X		PC	N/A	1.1

NO.	REASON FOR REVISION	# OF SHEETS	LAST SHEET	BY	CHECKED	APPROVAL	DATE
0	Initial Calculation	4	4	JSN	[illegible]	[illegible]	8/9/95

RECORD OF REVISIONS

I. PURPOSE

Refine slug test data to yield hydraulic conductivities. Data was recorded by data loggers during slug tests performed at Trumbo Point at NAS Key West on June 30, 1995.

II. SOURCES OF DATA

(1) Slug test data recorded by data loggers during slug tests (Attachment 1)

(2) Well Construction Summaries (Attachment 2)

(3) Results from Aqtesolv (Attachment 3)

III. REFERENCES

Bouwer, H., and R.C. Rice (1976). "A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers with Completely or Partially Penetrating Wells", Water Resources Research, Vol. 12, No. 3, Pp. 423-428.

Geraghty & Miller, Inc. (1991). Aquifer Test Design and Analysis (AQTESOLV) Version 1.1, Modelling Group, Computer Software.

"AQTESOLV - Verification of Recovery and Slug Test Modules" FUSRAP CALCULATION 14501-191-CA-011.

IV. CALCULATIONS

Introduction

Slug tests were conducted in selected 2-inch wells at Trumbo Point at NAS Key West, Key West, Florida. The tests were run in the field by Bechtel personnel. Tests were performed by introducing a field-fabricated slug into the well and measuring the water level recovery. Data was recorded by a "Hermit" 1000C data logger and a 10 psi pressure transducer. After recovery was complete, the slug was then removed from the well and recovery data was again recorded. Data was downloaded to a personal computer from the data logger. The data was analyzed using Geraghty and Miller's AQTESOLV, Version 1.1, September 18, 1991.

AQTESOLV takes the data downloaded from the data logger and plots the time versus water level on the computer screen and allows the user to fit a straight line or a curve to the data using either the Bouwer and Rice or the Cooper, Bredehoeft, and Papadopolus method of slug test analysis. Once the "best fit" is found, the program supplies a corresponding hydraulic conductivity value. All of the data collected from slug tests performed at Trumbo Point were analyzed using the Bouwer and Rice method.

Assumptions

Bouwer and Rice Method

-drawdown of the water table around the well is negligible
-flow above the water table, in the capillary fringe is negligible
-head losses as water enters the well are negligible
-the aquifer is homogenous and isotropic
-the well may be partially or fully penetrating

Results

The results from AQTESOLV are summarized in the following table. Well construction diagrams are not available for the wells which were tested. The wells were sounded for total depth and the screened interval was assumed to be the bottom 10 ft of the well. Results from the falling head test on MW3D are questionable, the test was adversely impacted by emplacement of the slug.

CALCULATION SHEET		Project:	NAVYRAC Key West
		Job Number:	22567-322
			Key 8/9/95
		CALC NO.	322-G-001
SUBJECT	Trumbo Point Hydraulic Conductivities	SHEET NO.	4 of 4
BY	Jon Novick DATE 8/9/95	SHEET REV.	0

Summary of Results

Well	Test Type	Hydraulic Conductivity (ft/min)	Average Hydraulic Conductivity (ft/min)	Average Hydraulic Conductivity (ft/day)
KWM21	Falling	7.187×10^{-4}	6.774×10^{-3}	0.975
	Rising	6.361×10^{-4}		
MW3D	Falling[1]	3.643×10^{-2}	1.531×10^{-3}	2.205
	Rising	1.531×10^{-3}		
MW9-13	Falling	7.568×10^{-4}	9.079×10^{-4}	1.307
	Rising	1.059×10^{-3}		
MW10	Falling	5.568×10^{-3}	3.678×10^{-3}	5.296
	Rising	1.787×10^{-3}		

[1] Test invalid (see text), not included in average permeability values.

ATTACHMENT 1

SLUG TEST DATA

ORIG. J. Novick DATE 8/8/95
CHK'D BY L. Young DATE 8/8/95
CALC. NO 32I-G-001
REV. NO. 0 SHEET NO. 1-1

KWM21 Slug In

SE1000C
Environmental
Logger
07/05 13:16

Unit# 01957 Test 2

Setups:	INPUT 1
Type	Level (F)
Mode	Surface
I.D.	00000
Reference	0.000
Linearity	0.430
Scale factor	10.060
Offset	0.000
Delay mSEC	50.000

Step 0 06/30
09:47:03

Time	INPUT 1
0.0000	0.493
0.0033	0.767
0.0066	1.378
0.0100	-0.151
0.0133	1.054
0.0166	0.965
0.0200	0.942
0.0233	1.292
0.0266	1.328
0.0300	1.811
0.0333	2.424
0.0366	1.526
0.0400	1.738
0.0433	1.586
0.0466	2.367
0.0500	1.457
0.0533	0.905
0.0566	2.116
0.0600	2.603
0.0633	2.450
0.0666	1.675
0.0700	2.351
0.0733	2.706
0.0766	1.874
0.0800	2.407
0.0833	2.444
0.0866	2.198
0.0900	1.546
0.0933	1.831
0.0966	1.493
0.1000	1.665
0.1033	1.209
0.1066	1.193
0.1100	1.199
0.1133	1.421
0.1166	1.616
0.1200	1.483
0.1233	0.981
0.1266	0.177
0.1300	1.113
0.1333	1.371
0.1366	1.358
0.1400	0.691
0.1433	0.655
0.1466	1.067
0.1500	0.948
0.1533	0.638
0.1566	0.899
0.1600	0.869
0.1633	0.856
0.1666	0.859
0.1700	0.853
0.1733	0.839
0.1766	0.839
0.1800	0.833
0.1833	0.826
0.1866	0.823
0.1900	0.816
0.1933	0.813
0.1966	0.806
0.2000	0.803
0.2033	0.800
0.2066	0.790
0.2100	0.787
0.2133	0.783
0.2166	0.780
0.2200	0.777
0.2233	0.774
0.2266	0.764
0.2300	0.764
0.2333	0.757
0.2366	0.757
0.2400	0.754
0.2433	0.744
0.2466	0.744
0.2500	0.741
0.2533	0.737
0.2566	0.734
0.2600	0.727
0.2633	0.724
0.2666	0.721
0.2700	0.717
0.2733	0.714
0.2766	0.714
0.2800	0.708
0.2833	0.704
0.2866	0.701
0.2900	0.701
0.2933	0.694
0.2966	0.691
0.3000	0.691
0.3033	0.684
0.3066	0.684
0.3100	0.681
0.3133	0.678
0.3166	0.675
0.3200	0.671
0.3233	0.671
0.3266	0.665
0.3300	0.694
0.3333	0.658
0.3500	0.645
0.3666	0.632
0.3833	0.619
0.4000	0.605
0.4166	0.592
0.4333	0.582
0.4500	0.569
0.4666	0.559
0.4833	0.549
0.5000	0.539
0.5166	0.530
0.5333	0.520
0.5500	0.510
0.5666	0.500
0.5833	0.493
0.6000	0.483
0.6166	0.477
0.6333	0.467
0.6500	0.460
0.6666	0.454
0.6833	0.447
0.7000	0.441
0.7166	0.431
0.7333	0.427
0.7500	0.421
0.7666	0.414
0.7833	0.408
0.8000	0.401
0.8166	0.398
0.8333	0.391
0.8500	0.385
0.8666	0.381
0.8833	0.378
0.9000	0.371
0.9166	0.368
0.9333	0.362
0.9500	0.358
0.9666	0.355
0.9833	0.348
1.0000	0.345
1.2000	0.292
1.4000	0.263
1.6000	0.236
1.8000	0.217
2.0000	0.197
2.2000	0.184
2.4000	0.171
2.6000	0.157
2.8000	0.148
3.0000	0.177
3.2000	0.128
3.4000	0.121
3.6000	0.111
3.8000	0.105
4.0000	0.098
4.2000	0.092
4.4000	0.088
4.6000	0.082
4.8000	0.075
5.0000	0.072
5.2000	0.069
5.4000	0.065
5.6000	0.062
5.8000	0.059
6.0000	0.055
6.2000	0.052
6.4000	0.049
6.6000	0.049
6.8000	0.046
7.0000	0.042
7.2000	0.042
7.4000	0.039
7.6000	0.039
7.8000	0.036
8.0000	0.036
8.2000	0.032
8.4000	0.032
8.6000	0.032
8.8000	0.029
9.0000	0.029
9.2000	0.029
9.4000	0.026
9.6000	0.026
9.8000	0.026
10.0000	0.026
12.0000	0.016
14.0000	0.013

ORIG. J. Novick DATE 8/8/95
CHK'D BY L. Young DATE 8/8/95
CALC. NO 322-JG-001
REV. NO. 0 SHEET NO. 1-2

KWM21 Slug Out

SE1000C
Environmental
Logger
07/05 13:19

Unit# 01957 Test 3

Setups:	INPUT
1	
Type	Level
(F)	
Mode	Surface
I.D.	00000
Reference	0.000
Linearity	0.430
Scale factor	10.060
Offset	0.000
Delay mSEC	50.000

Step 0 06/30
10:02:24

Time	INPUT 1
0.0000	-2.818
0.0033	-3.407
0.0066	-3.887
0.0100	-3.212
0.0133	-1.989
0.0166	-6.057
0.0200	-5.370
0.0233	-3.849
0.0266	-1.509
0.0300	-3.748
0.0333	-4.409
0.0366	-2.342
0.0400	-2.250
0.0433	-2.175
0.0466	-2.175
0.0500	-2.192
0.0533	-2.162
0.0566	-2.172
0.0600	-2.156
0.0633	-2.159
0.0666	-2.139
0.0700	-2.139
0.0733	-2.123
0.0766	-2.110
0.0800	-2.123
0.0833	-2.100
0.0866	-2.084
0.0900	-2.087
0.0933	-2.081
0.0966	-2.074
0.1000	-2.068
0.1033	-2.061
0.1066	-2.058
0.1100	-2.051
0.1133	-2.045
0.1166	-2.038
0.1200	-2.032
0.1233	-2.025
0.1266	-2.015
0.1300	-2.012
0.1333	-1.976
0.1366	-1.999
0.1400	-1.996
0.1433	-1.993
0.1466	-1.983
0.1500	-1.979
0.1533	-1.973
0.1566	-1.966
0.1600	-1.963
0.1633	-1.960
0.1666	-1.953
0.1700	-1.950
0.1733	-1.944
0.1766	-1.940
0.1800	-1.934
0.1833	-1.930
0.1866	-1.927
0.1900	-1.921
0.1933	-1.917
0.1966	-1.911
0.2000	-1.908
0.2033	-1.901
0.2066	-1.898
0.2100	-1.895
0.2133	-1.888
0.2166	-1.885
0.2200	-1.881
0.2233	-1.875
0.2266	-1.872
0.2300	-1.868
0.2333	-1.862
0.2366	-1.859
0.2400	-1.852
0.2433	-1.849
0.2466	-1.845
0.2500	-1.839
0.2533	-1.836
0.2566	-1.832
0.2600	-1.826
0.2633	-1.823
0.2666	-1.819
0.2700	-1.813
0.2733	-1.810
0.2766	-1.806
0.2800	-1.803
0.2833	-1.796
0.2866	-1.793
0.2900	-1.790
0.2933	-1.787
0.2966	-1.783
0.3000	-1.777
0.3033	-1.774
0.3066	-1.770
0.3100	-1.767
0.3133	-1.764
0.3166	-1.757
0.3200	-1.754
0.3233	-1.751
0.3266	-1.747
0.3300	-1.744
0.3333	-1.741
0.3500	-1.718
0.3666	-1.698
0.3833	-1.676
0.4000	-1.656
0.4166	-1.636
0.4333	-1.617
0.4500	-1.597
0.4666	-1.581
0.4833	-1.561
0.5000	-1.541
0.5166	-1.525
0.5333	-1.505
0.5500	-1.486
0.5666	-1.469
0.5833	-1.450
0.6000	-1.433
0.6166	-1.417
0.6333	-1.397
0.6500	-1.381
0.6666	-1.365
0.6833	-1.348
0.7000	-1.332
0.7166	-1.316
0.7333	-1.299
0.7500	-1.286
0.7666	-1.270
0.7833	-1.253
0.8000	-1.237
0.8166	-1.221
0.8333	-1.207
0.8500	-1.191
0.8666	-1.178
0.8833	-1.162
0.9000	-1.149
0.9166	-1.135
0.9333	-1.119
0.9500	-1.106
0.9666	-1.093
0.9833	-1.076
1.0000	-1.063
1.2000	-0.880
1.4000	-0.758
1.6000	-0.663
1.8000	-0.584
2.0000	-0.525
2.2000	-0.479
2.4000	-0.437
2.6000	-0.404
2.8000	-0.374
3.0000	-0.348
3.2000	-0.325
3.4000	-0.305
3.6000	-0.289
3.8000	-0.276
4.0000	-0.263
4.2000	-0.249
4.4000	-0.240
4.6000	-0.230
4.8000	-0.223
5.0000	-0.213
5.2000	-0.207
5.4000	-0.203
5.6000	-0.197
5.8000	-0.190
6.0000	-0.187
6.2000	-0.184
6.4000	-0.180
6.6000	-0.177
6.8000	-0.174
7.0000	-0.171
7.2000	-0.167
7.4000	-0.164
7.6000	-0.164
7.8000	-0.161
8.0000	-0.161
8.2000	-0.157
8.4000	-0.157
8.6000	-0.157
8.8000	-0.154
9.0000	-0.154
9.2000	-0.154
9.4000	-0.151
9.6000	-0.151
9.8000	-0.151
10.0000	-0.147
12.0000	-0.144
14.0000	-0.141
16.0000	-0.141

ORIG. J. Novick DATE 8/8/95
CHK'D BY L. Young DATE 8/3/95
CALC. NO 322-G-001
REV. NO. 0 SHEET NO. 1-3

MW 3D Slug In

SE1000C
Environmental
Logger
07/05 13:29

Unit# 01957 Test 6

Setups:	INPUT
1	
Type	Level
(F)	
Mode	Surface
I.D.	00000
Reference	0.000
Linearity	0.430
Scale factor	10.060
Offset	0.000
Delay mSEC	50.000

Step 0 06/30
11:44:20

Time	INPUT 1
0.0000	-0.009
0.0033	0.006
0.0066	0.010
0.0100	0.010
0.0133	0.006
0.0166	0.013
0.0200	0.343
0.0233	0.832
0.0266	1.047
0.0300	1.801
0.0333	0.397
0.0366	0.967
0.0400	1.274
0.0433	0.940
0.0466	1.274
0.0500	1.335
0.0533	1.477
0.0566	1.818
0.0600	1.392
0.0633	1.622
0.0666	1.876
0.0700	1.848
0.0733	2.014
0.0766	2.160
0.0800	2.228
0.0833	2.190
0.0866	1.957
0.0900	1.720
0.0933	1.443
0.0966	1.368
0.1000	1.145
0.1033	0.906
0.1066	1.196
0.1100	1.331
0.1133	1.351
0.1166	-0.339
0.1200	-0.124
0.1233	0.518
0.1266	-0.137
0.1300	0.037
0.1333	0.114
0.1366	-0.036
0.1400	0.067
0.1433	0.013
0.1466	0.043
0.1500	0.050
0.1533	0.057
0.1566	0.060
0.1600	0.060
0.1633	0.060
0.1666	0.064
0.1700	0.060
0.1733	0.060
0.1766	0.060
0.1800	0.057
0.1833	0.053
0.1866	0.053
0.1900	0.050
0.1933	0.047
0.1966	0.043
0.2000	0.040
0.2033	0.040
0.2066	0.037
0.2100	0.033
0.2133	0.033
0.2166	0.030
0.2200	0.030
0.2233	0.026
0.2266	0.026
0.2300	0.023
0.2333	0.023
0.2366	0.023
0.2400	0.023
0.2433	0.020
0.2466	0.020
0.2500	0.016
0.2533	0.016
0.2566	0.016
0.2600	0.016
0.2633	0.016
0.2666	0.013
0.2700	0.013
0.2733	0.020
0.2766	0.050
0.2800	-0.067
0.2833	0.030
0.2866	-0.016
0.2900	0.010
0.2933	0.010
0.2966	0.010
0.3000	0.010
0.3033	0.010
0.3066	0.010
0.3100	0.010
0.3133	0.010
0.3166	0.010
0.3200	0.010
0.3233	0.010
0.3266	0.010
0.3300	0.010
0.3333	0.010
0.3500	0.006
0.3666	0.010
0.3833	0.010
0.4000	0.010
0.4166	0.006
0.4333	0.006
0.4500	0.006
0.4666	0.006
0.4833	0.006
0.5000	0.006
0.5166	0.006
0.5333	0.006
0.5500	0.006
0.5666	0.006
0.5833	0.006
0.6000	0.006
0.6166	0.006
0.6333	0.006
0.6500	0.006
0.6666	0.006
0.6833	0.006
0.7000	0.006
0.7166	0.006
0.7333	0.006
0.7500	0.006
0.7666	0.006
0.7833	0.006
0.8000	0.006
0.8166	0.006
0.8333	0.006
0.8500	0.006
0.8666	0.006
0.8833	0.006
0.9000	0.006
0.9166	0.006
0.9333	0.006
0.9500	0.006
0.9666	0.006
0.9833	0.006
1.0000	0.006
1.2000	0.006
1.4000	0.010
1.6000	0.010
1.8000	0.010
2.0000	0.010
2.2000	0.010
2.4000	0.010
2.6000	0.010
2.8000	0.013
3.0000	0.013
3.2000	0.013
3.4000	0.013
3.6000	0.013
3.8000	0.013
4.0000	0.013
4.2000	0.013
4.4000	0.013
4.6000	0.016
4.8000	0.016
5.0000	0.016
5.2000	0.016
5.4000	0.020
5.6000	0.020
5.8000	0.020
6.0000	0.020
6.2000	0.020
6.4000	0.023
6.6000	0.020
6.8000	0.023
7.0000	0.023
7.2000	0.023
7.4000	0.026
7.6000	0.026
7.8000	0.026
8.0000	0.026
8.2000	0.026
8.4000	0.026
8.6000	0.030
8.8000	0.030
9.0000	0.030
9.2000	0.030
9.4000	0.030
9.6000	0.033
9.8000	0.033
10.0000	0.033

ORIG. J. Novick DATE 8/8/95
CHK'D BY L. Young DATE 8/8/95
CALC. NO 327-G-001
REV. NO. 0 SHEET NO. 1-4

MW3D Slug Out

SE1000C
Environmental Logger
07/05 13:31

Unit# 01957 Test 7

Setups:	INPUT 1
Type	Level
(F)	
Mode	Surface
I.D.	00000
Reference	0.000
Linearity	0.430
Scale factor	10.060
Offset	0.000
Delay mSEC	50.000

Step 0 06/30
11:55:40

Time	INPUT 1
0.0000	-1.600
0.0033	-4.394
0.0066	-6.995
0.0100	-6.919
0.0133	-6.778
0.0166	-9.816
0.0200	-6.778
0.0233	-3.807
0.0266	-3.062
0.0300	-1.831
0.0333	-1.121
0.0366	-1.181
0.0400	-1.245
0.0433	-1.315
0.0466	-1.302
0.0500	-1.228
0.0533	-1.228
0.0566	-1.241
0.0600	-1.215
0.0633	-1.184
0.0666	-1.258
0.0700	-1.198
0.0733	-1.154
0.0766	-1.178
0.0800	-1.168
0.0833	-1.181
0.0866	-1.134
0.0900	-1.164
0.0933	-1.138
0.0966	-1.138
0.1000	-1.131
0.1033	-1.124
0.1066	-1.118
0.1100	-1.114
0.1133	-1.107
0.1166	-1.101
0.1200	-1.097
0.1233	-1.091
0.1266	-1.087
0.1300	-1.081
0.1333	-1.077
0.1366	-1.071
0.1400	-1.067
0.1433	-1.061
0.1466	-1.057
0.1500	-1.054
0.1533	-1.050
0.1566	-1.044
0.1600	-1.040
0.1633	-1.037
0.1666	-1.034
0.1700	-1.027
0.1733	-1.024
0.1766	-1.020
0.1800	-1.017
0.1833	-1.014
0.1866	-1.007
0.1900	-1.004
0.1933	-1.000
0.1966	-0.997
0.2000	-0.993
0.2033	-0.990
0.2066	-0.987
0.2100	-0.983
0.2133	-0.977
0.2166	-0.973
0.2200	-0.970
0.2233	-0.967
0.2266	-0.963
0.2300	-0.960
0.2333	-0.957
0.2366	-0.953
0.2400	-0.950
0.2433	-0.947
0.2466	-0.943
0.2500	-0.940
0.2533	-0.936
0.2566	-0.933
0.2600	-0.930
0.2633	-0.926
0.2666	-0.923
0.2700	-0.920
0.2733	-0.916
0.2766	-0.910
0.2800	-0.910
0.2833	-0.906
0.2866	-0.903
0.2900	-0.896
0.2933	-0.893
0.2966	-0.893
0.3000	-0.889
0.3033	-0.886
0.3066	-0.883
0.3100	-0.879
0.3133	-0.876
0.3166	-0.873
0.3200	-0.869
0.3233	-0.866
0.3266	-0.863
0.3300	-0.859
0.3333	-0.856
0.3500	-0.839
0.3666	-0.822
0.3833	-0.806
0.4000	-0.789
0.4166	-0.772
0.4333	-0.755
0.4500	-0.742
0.4666	-0.725
0.4833	-0.712
0.5000	-0.695
0.5166	-0.682
0.5333	-0.668
0.5500	-0.655
0.5666	-0.641
0.5833	-0.628
0.6000	-0.614
0.6166	-0.601
0.6333	-0.591
0.6500	-0.578
0.6666	-0.564
0.6833	-0.554
0.7000	-0.544
0.7166	-0.530
0.7333	-0.520
0.7500	-0.510
0.7666	-0.497
0.7833	-0.487
0.8000	-0.477
0.8166	-0.467
0.8333	-0.457
0.8500	-0.446
0.8666	-0.436
0.8833	-0.426
0.9000	-0.416
0.9166	-0.406
0.9333	-0.399
0.9500	-0.389
0.9666	-0.379
0.9833	-0.373
1.0000	-0.362
1.2000	-0.245
1.4000	-0.168
1.6000	-0.107
1.8000	-0.063
2.0000	-0.026
2.2000	-0.006
2.4000	0.010
2.6000	0.020
2.8000	0.023
3.0000	0.026
3.2000	0.030
3.4000	0.033
3.6000	0.033
3.8000	0.037
4.0000	0.037
4.2000	0.037
4.4000	0.040
4.6000	0.040
4.8000	0.040
5.0000	0.040
5.2000	0.040
5.4000	0.043
5.6000	0.043
5.8000	0.043
6.0000	0.047
6.2000	0.047
6.4000	0.047
6.6000	0.047
6.8000	0.047
7.0000	0.047
7.2000	0.050
7.4000	0.050
7.6000	0.050
7.8000	0.050
8.0000	0.050
8.2000	0.050
8.4000	0.053
8.6000	0.053
8.8000	0.053
9.0000	0.053
9.2000	0.053
9.4000	0.053
9.6000	0.057
9.8000	0.053
10.0000	0.053

ORIG. J. Novick DATE 8/8/95
CHK'D BY L. Young DATE 8/8/95
CALC. NO 322-G-001
REV. NO. 0 SHEET NO. 1-5

MW9-13 Slug In

SE1000C
Environmental
Logger
07/05 13:11

Unit# 01957 Test 0

Setups:	INPUT
1	
Type	Level
(F)	
Mode	Surface
I.D.	00000
Reference	0.000
Linearity	0.430
Scale factor	10.060
Offset	0.000
Delay mSEC	50.000

Step 0 06/30
08:28:50

Time	INPUT
1	
0.0000	0.016
0.0033	0.016
0.0066	0.019
0.0100	0.023
0.0133	0.016
0.0166	0.016
0.0200	0.013
0.0233	-0.082
0.0266	2.418
0.0300	-1.098
0.0333	0.217
0.0366	1.201
0.0400	0.977
0.0433	0.839
0.0466	1.231
0.0500	1.594
0.0533	1.822
0.0566	1.915
0.0600	2.219
0.0633	2.445
0.0666	2.408
0.0700	2.084
0.0733	1.955
0.0766	2.395
0.0800	2.587
0.0833	2.027
0.0866	2.133
0.0900	2.590
0.0933	2.216
0.0966	1.657
0.1000	1.862
0.1033	1.935
0.1066	1.363
0.1100	1.337
0.1133	1.637
0.1166	1.756
0.1200	1.647
0.1233	1.578
0.1266	1.588
0.1300	1.598
0.1333	1.578
0.1366	1.555
0.1400	1.545
0.1433	1.535
0.1466	1.522
0.1500	1.508
0.1533	1.495
0.1566	1.485
0.1600	1.472
0.1633	1.462
0.1666	1.449
0.1700	1.439
0.1733	1.429
0.1766	1.416
0.1800	1.406
0.1833	1.396
0.1866	1.386
0.1900	1.373
0.1933	1.366
0.1966	1.356
0.2000	1.347
0.2033	1.337
0.2066	1.330
0.2100	1.320
0.2133	1.314
0.2166	1.300
0.2200	1.290
0.2233	1.284
0.2266	1.277
0.2300	1.267
0.2333	1.261
0.2366	1.254
0.2400	1.244
0.2433	1.238
0.2466	1.231
0.2500	1.224
0.2533	1.218
0.2566	1.211
0.2600	1.201
0.2633	1.195
0.2666	1.188
0.2700	1.185
0.2733	1.178
0.2766	1.172
0.2800	1.165
0.2833	1.158
0.2866	1.152
0.2900	1.149
0.2933	1.142
0.2966	1.135
0.3000	1.129
0.3033	1.125
0.3066	1.122
0.3100	1.112
0.3133	1.109
0.3166	1.102
0.3200	1.099
0.3233	1.093
0.3266	1.089
0.3300	1.083
0.3333	1.079
0.3500	1.053
0.3666	1.030
0.3833	1.007
0.4000	0.984
0.4166	0.964
0.4333	0.944
0.4500	0.931
0.4666	0.908
0.4833	0.891
0.5000	0.875
0.5166	0.858
0.5333	0.845
0.5500	0.829
0.5666	0.816
0.5833	0.799
0.6000	0.786
0.6166	0.773
0.6333	0.760
0.6500	0.746
0.6666	0.737
0.6833	0.723
0.7000	0.713
0.7166	0.700
0.7333	0.690
0.7500	0.677
0.7666	0.667
0.7833	0.657
0.8000	0.648
0.8166	0.638
0.8333	0.628
0.8500	0.618
0.8666	0.608
0.8833	0.598
0.9000	0.592
0.9166	0.582
0.9333	0.575
0.9500	0.565
0.9666	0.559
0.9833	0.549
1.0000	0.542
1.2000	0.450
1.4000	0.388
1.6000	0.332
1.8000	0.286
2.0000	0.259
2.2000	0.226
2.4000	0.200
2.6000	0.174
2.8000	0.154
3.0000	0.144
3.2000	0.134
3.4000	0.131
3.6000	0.128
3.8000	0.124
4.0000	0.121
4.2000	0.121
4.4000	0.118
4.6000	0.115
4.8000	0.111
5.0000	0.108
5.2000	0.108
5.4000	0.105
5.6000	0.105
5.8000	0.101
6.0000	0.101
6.2000	0.101
6.4000	0.098
6.6000	0.098
6.8000	0.101
7.0000	0.098
7.2000	0.098
7.4000	0.098
7.6000	0.098
7.8000	0.111
8.0000	0.115
8.2000	0.115
8.4000	0.101
8.6000	0.092
8.8000	0.088
9.0000	0.085
9.2000	0.085
9.4000	0.085
9.6000	0.085
9.8000	0.082
10.0000	0.082
12.0000	0.059
14.0000	0.072

ORIG. J. Novick DATE 8/8/95
CHK'D BY L. Young DATE 8/8/95
CALC. NO 322-G-001
REV. NO. 0 SHEET NO. 1-6

MW9-13 Slug Out

SE1000C
Environmental
Logger
07/05 13:14

Unit# 01957 Test 1

Setups:	INPUT
1	
Type	Level
(F)	
Mode	Surface
I.D.	00000
Reference	0.000
Linearity	0.430
Scale factor	10.060
Offset	0.000
Delay mSEC	50.000

Step 0 06/30
08:43:32

Time	INPUT
1	
0.0000	-3.195
0.0033	-2.896
0.0066	-2.965
0.0100	-3.783
0.0133	-3.579
0.0166	-1.334
0.0200	-1.817
0.0233	-2.013
0.0266	-1.958
0.0300	-1.919
0.0333	-1.912
0.0366	-1.893
0.0400	-1.879
0.0433	-1.870
0.0466	-1.850
0.0500	-1.844
0.0533	-1.831
0.0566	-1.853
0.0600	-1.788
0.0633	-1.788
0.0666	-1.772
0.0700	-1.719
0.0733	-1.710
0.0766	-1.713
0.0800	-1.713
0.0833	-1.687
0.0866	-1.684
0.0900	-1.674
0.0933	-1.667
0.0966	-1.657
0.1000	-1.648
0.1033	-1.644
0.1066	-1.635
0.1100	-1.625
0.1133	-1.618
0.1166	-1.612
0.1200	-1.605
0.1233	-1.599
0.1266	-1.592
0.1300	-1.582
0.1333	-1.579
0.1366	-1.572
0.1400	-1.566
0.1433	-1.563
0.1466	-1.553
0.1500	-1.550
0.1533	-1.543
0.1566	-1.533
0.1600	-1.527
0.1633	-1.520
0.1666	-1.514
0.1700	-1.507
0.1733	-1.504
0.1766	-1.497
0.1800	-1.491
0.1833	-1.484
0.1866	-1.481
0.1900	-1.474
0.1933	-1.471
0.1966	-1.465
0.2000	-1.461
0.2033	-1.452
0.2066	-1.448
0.2100	-1.442
0.2133	-1.435
0.2166	-1.429
0.2200	-1.425
0.2233	-1.419
0.2266	-1.412
0.2300	-1.406
0.2333	-1.402
0.2366	-1.396
0.2400	-1.386
0.2433	-1.383
0.2466	-1.376
0.2500	-1.373
0.2533	-1.363
0.2566	-1.360
0.2600	-1.353
0.2633	-1.347
0.2666	-1.340
0.2700	-1.337
0.2733	-1.331
0.2766	-1.327
0.2800	-1.321
0.2833	-1.317
0.2866	-1.311
0.2900	-1.304
0.2933	-1.301
0.2966	-1.295
0.3000	-1.291
0.3033	-1.285
0.3066	-1.281
0.3100	-1.278
0.3133	-1.272
0.3166	-1.268
0.3200	-1.262
0.3233	-1.259
0.3266	-1.255
0.3300	-1.252
0.3333	-1.245
0.3500	-1.219
0.3666	-1.196
0.3833	-1.173
0.4000	-1.147
0.4166	-1.124
0.4333	-1.101
0.4500	-1.082
0.4666	-1.062
0.4833	-1.039
0.5000	-1.020
0.5166	-1.000
0.5333	-0.980
0.5500	-0.961
0.5666	-0.941
0.5833	-0.921
0.6000	-0.905
0.6166	-0.885
0.6333	-0.869
0.6500	-0.856
0.6666	-0.839
0.6833	-0.823
0.7000	-0.807
0.7166	-0.790
0.7333	-0.777
0.7500	-0.761
0.7666	-0.748
0.7833	-0.731
0.8000	-0.718
0.8166	-0.705
0.8333	-0.692
0.8500	-0.679
0.8666	-0.666
0.8833	-0.656
0.9000	-0.643
0.9166	-0.630
0.9333	-0.620
0.9500	-0.607
0.9666	-0.597
0.9833	-0.584
1.0000	-0.574
1.2000	-0.436
1.4000	-0.351
1.6000	-0.285
1.8000	-0.226
2.0000	-0.177
2.2000	-0.137
2.4000	-0.105
2.6000	-0.075
2.8000	-0.052
3.0000	-0.032
3.2000	-0.013
3.4000	0.000
3.6000	0.009
3.8000	0.019
4.0000	0.029
4.2000	0.036
4.4000	0.042
4.6000	0.046
4.8000	0.052
5.0000	0.055
5.2000	0.062
5.4000	0.065
5.6000	0.069
5.8000	0.072
6.0000	0.075
6.2000	0.078
6.4000	0.082
6.6000	0.082
6.8000	0.085
7.0000	0.088
7.2000	0.088
7.4000	0.092
7.6000	0.095
7.8000	0.095
8.0000	0.098
8.2000	0.098
8.4000	0.101
8.6000	0.101
8.8000	0.105
9.0000	0.105
9.2000	0.105
9.4000	0.108
9.6000	0.108
9.8000	0.108
10.0000	0.111
12.0000	0.118
14.0000	0.124
16.0000	0.131

ORIG. J. Novick DATE 8/8/95
CHK'D BY L. Young DATE 8/8/95
CALC. NO 322-G-001
REV. NO. 0 SHEET NO. 1-7

MW 10 Slug In

SE1000C
Environmental
Logger
07/05 13:25

Unit# 01957 Test 5

Setups:	INPUT
1	
Type	Level
(F)	
Mode	Surface
I.D.	00000
Reference	0.000
Linearity	0.430
Scale factor	10.060
Offset	0.000
Delay mSEC	50.000

Step 0 06/30
10:30:15

Time	INPUT 1
0	0
0.0033	-0.003
0.0066	0.003
0.01	0
0.0133	-0.003
0.0166	0.003
0.02	0.342
0.0233	0.476
0.0266	0.859
0.03	1.175
0.0333	2.095
0.0366	1.865
0.04	1.838
0.0433	2.48
0.0466	2.483
0.05	2.889
0.0533	2.581
0.0566	2.196
0.06	2.54
0.0633	2.574
0.0666	2.699
0.07	2.764
0.0733	2.784
0.0766	2.75
0.08	2.737
0.0833	2.764
0.0866	2.459
0.09	2.165
0.0933	1.815
0.0966	0.791
0.1	1.468
0.1033	1.36
0.1066	1.673
0.11	1.882
0.1133	1.744
0.1166	1.929
0.12	1.464
0.1233	1.727
0.1266	1.987
0.13	2.196
0.1333	1.751
0.1366	0.882
0.14	0.55
0.1433	0.835
0.1466	0.939
0.15	0.933
0.1533	0.896
0.1566	0.896
0.16	0.886
0.1633	0.876
0.1666	0.855
0.17	0.842
0.1733	0.829
0.1766	0.818
0.18	0.805
0.1833	0.791
0.1866	0.778
0.19	0.765
0.1933	0.755
0.1966	0.741
0.2	0.728
0.2033	0.718
0.2066	0.704
0.21	0.694
0.2133	0.684
0.2166	0.671
0.22	0.661
0.2233	0.654
0.2266	0.64
0.23	0.63
0.2333	0.62
0.2366	0.61
0.24	0.6
0.2433	0.59
0.2466	0.58
0.25	0.573
0.2533	0.563
0.2566	0.553
0.26	0.543
0.2633	0.536
0.2666	0.526
0.27	0.516
0.2733	0.509
0.2766	0.503
0.28	0.493
0.2833	0.486
0.2866	0.479
0.29	0.469
0.2933	0.462
0.2966	0.456
0.3	0.446
0.3033	0.439
0.3066	0.436
0.31	0.426
0.3133	0.419
0.3166	0.415
0.32	0.402
0.3233	0.399
0.3266	0.395
0.33	0.385
0.3333	0.382
0.35	0.348
0.3666	0.321
0.3833	0.295
0.4	0.268
0.4166	0.248
0.4333	0.224
0.45	0.208
0.4666	0.191
0.4833	0.174
0.5	0.16
0.5166	0.147
0.5333	0.134
0.55	0.124
0.5666	0.114
0.5833	0.103
0.6	0.097
0.6166	0.09
0.6333	0.08
0.65	0.077
0.6666	0.07
0.6833	0.063
0.7	0.06
0.7166	0.053
0.7333	0.05
0.75	0.046
0.7666	0.043
0.7833	0.04
0.8	0.036
0.8166	0.033
0.8333	0.033
0.85	0.03
0.8666	0.03
0.8833	0.026
0.9	0.023
0.9166	0.023
0.9333	0.023
0.95	0.02
0.9666	0.02
0.9833	0.016
1	0.016
1.2	0.01
1.4	0.01
1.6	0.01
1.8	0.01
2	0.01
2.2	0.01
2.4	0.013
2.6	0.013
2.8	0.013
3	0.013
3.2	0.016
3.4	0.016
3.6	0.016
3.8	0.016
4	0.016
4.2	0.02
4.4	0.02
4.6	0.02
4.8	0.02
5	0.02
5.2	0.023
5.4	0.023
5.6	0.023
5.8	0.023
6	0.023
6.2	0.026
6.4	0.026
6.6	0.026
6.8	0.026
7	0.026
7.2	0.03
7.4	0.03
7.6	0.03
7.8	0.033
8	0.033
8.2	0.033
8.4	0.033
8.6	0.033
8.8	0.036
9	0.036
9.2	0.036
9.4	0.036
9.6	0.036
9.8	0.04
10	0.04
12	0.05
14	0.06
16	0.067
18	0.077

ORIG. J. Novick DATE 8/8/95
CHK'D BY L. Young DATE 8/8/95
CALC. NO 327-G-001
REV. NO. 0 SHEET NO. 1-8

MW 10 Slug Out

SE1000C
Environmental
Logger
07/05 13:25

Unit# 01957 Test 5

Setups:	INPUT
1	
Type	Level
(F)	
Mode	Surface
I.D.	00000
Reference	0.000
Linearity	0.430
Scale factor	10.060
Offset	0.000
Delay mSEC	50.000

Step 0 06/30
10:52:15

Time	INPUT 1
0.0000	-2.871
0.0033	-4.935
0.0066	-5.377
0.0100	-4.734
0.0133	-5.232
0.0166	-4.133
0.0200	-2.270
0.0233	-4.939
0.0266	-4.576
0.0300	-2.376
0.0333	-2.393
0.0366	-1.494
0.0400	-1.424
0.0433	-2.808
0.0466	-2.027
0.0500	-1.727
0.0533	-1.717
0.0566	-1.717
0.0600	-1.724
0.0633	-1.711
0.0666	-1.701
0.0700	-1.697
0.0733	-1.677
0.0766	-1.674
0.0800	-1.664
0.0833	-1.650
0.0866	-1.647
0.0900	-1.631
0.0933	-1.587
0.0966	-1.614
0.1000	-1.604
0.1033	-1.587
0.1066	-1.574
0.1100	-1.571
0.1133	-1.564
0.1166	-1.554
0.1200	-1.544
0.1233	-1.534
0.1266	-1.524
0.1300	-1.507
0.1333	-1.464
0.1366	-1.504
0.1400	-1.457
0.1433	-1.477
0.1466	-1.471
0.1500	-1.464
0.1533	-1.457
0.1566	-1.447
0.1600	-1.440
0.1633	-1.434
0.1666	-1.427
0.1700	-1.417
0.1733	-1.410
0.1766	-1.404
0.1800	-1.397
0.1833	-1.390
0.1866	-1.384
0.1900	-1.374
0.1933	-1.367
0.1966	-1.360
0.2000	-1.354
0.2033	-1.347
0.2066	-1.340
0.2100	-1.334
0.2133	-1.327
0.2166	-1.320
0.2200	-1.314
0.2233	-1.307
0.2266	-1.304
0.2300	-1.297
0.2333	-1.290
0.2366	-1.284
0.2400	-1.277
0.2433	-1.270
0.2466	-1.264
0.2500	-1.260
0.2533	-1.254
0.2566	-1.247
0.2600	-1.240
0.2633	-1.237
0.2666	-1.230
0.2700	-1.224
0.2733	-1.217
0.2766	-1.214
0.2800	-1.207
0.2833	-1.200
0.2866	-1.197
0.2900	-1.190
0.2933	-1.184
0.2966	-1.180
0.3000	-1.174
0.3033	-1.167
0.3066	-1.164
0.3100	-1.157
0.3133	-1.154
0.3166	-1.147
0.3200	-1.140
0.3233	-1.137
0.3266	-1.130
0.3300	-1.127
0.3333	-1.120
0.3500	-1.090
0.3666	-1.063
0.3833	-1.037
0.4000	-1.010
0.4166	-0.983
0.4333	-0.960
0.4500	-0.937
0.4666	-0.913
0.4833	-0.890
0.5000	-0.866
0.5166	-0.846
0.5333	-0.823
0.5500	-0.803
0.5666	-0.783
0.5833	-0.763
0.6000	-0.743
0.6166	-0.722
0.6333	-0.706
0.6500	-0.689
0.6666	-0.669
0.6833	-0.652
0.7000	-0.636
0.7166	-0.619
0.7333	-0.602
0.7500	-0.589
0.7666	-0.572
0.7833	-0.559
0.8000	-0.545
0.8166	-0.528
0.8333	-0.515
0.8500	-0.502
0.8666	-0.488
0.8833	-0.475
0.9000	-0.462
0.9166	-0.448
0.9333	-0.438
0.9500	-0.425
0.9666	-0.415
0.9833	-0.401
1.0000	-0.391
1.2000	-0.244
1.4000	-0.160
1.6000	-0.097
1.8000	-0.046
2.0000	-0.013
2.2000	0.013
2.4000	0.033
2.6000	0.046
2.8000	0.060
3.0000	0.067
3.2000	0.073
3.4000	0.080
3.6000	0.083
3.8000	0.087
4.0000	0.090
4.2000	0.093
4.4000	0.093
4.6000	0.097
4.8000	0.097
5.0000	0.097
5.2000	0.100
5.4000	0.100
5.6000	0.100
5.8000	0.103
6.0000	0.103
6.2000	0.103
6.4000	0.103
6.6000	0.103
6.8000	0.107
7.0000	0.107
7.2000	0.107
7.4000	0.107
7.6000	0.110
7.8000	0.110
8.0000	0.110
8.2000	0.110
8.4000	0.114
8.6000	0.114
8.8000	0.114
9.0000	0.114
9.2000	0.117
9.4000	0.117
9.6000	0.117
9.8000	0.117
10.0000	0.117
12.0000	0.127
14.0000	0.134
16.0000	0.140
18.0000	0.147

ORIG. J. Novick DATE 8/8/95
CHK'D BY L. Young DATE 8/8/95
CALC. NO 322-G-001
REV. NO. 0 SHEET NO. 1-9

ORIG. J. Novick DATE 8/8/95
CHK'D BY L. Young DATE 8/8/95
CALC. NO 322-G-001
REV. NO. 0 SHEET NO. 2-1

ATTACHMENT 2

WELL CONSTRUCTION SUMMARIES

Well Construction Details

Well	Diameter	Top of Filter Pack[1]	Top of Screen[1]	Bottom of Screen[1]	Total Depth	Water Level
KWM21	2"	2.5	4.5	14.5	14.80	4.30
MW 3D	2"	38.5	40.5	50.5	50.65	4.80
MW9-13	2"	2.5	4.5	14.5	14.86	4.45
MW 10	2"	33.0	35.0	45.0	45.0	5.56

Note: All measurements are feet depth below ground.

[1] Well construction information not available, assumed value.

ORIG. J. Novick DATE 8/8/95
CHK'D BY L. Young DATE 8/8/95
CALC. NO 322-G-001
REV. NO. 0 SHEET NO. 2-2

ATTACHMENT 3

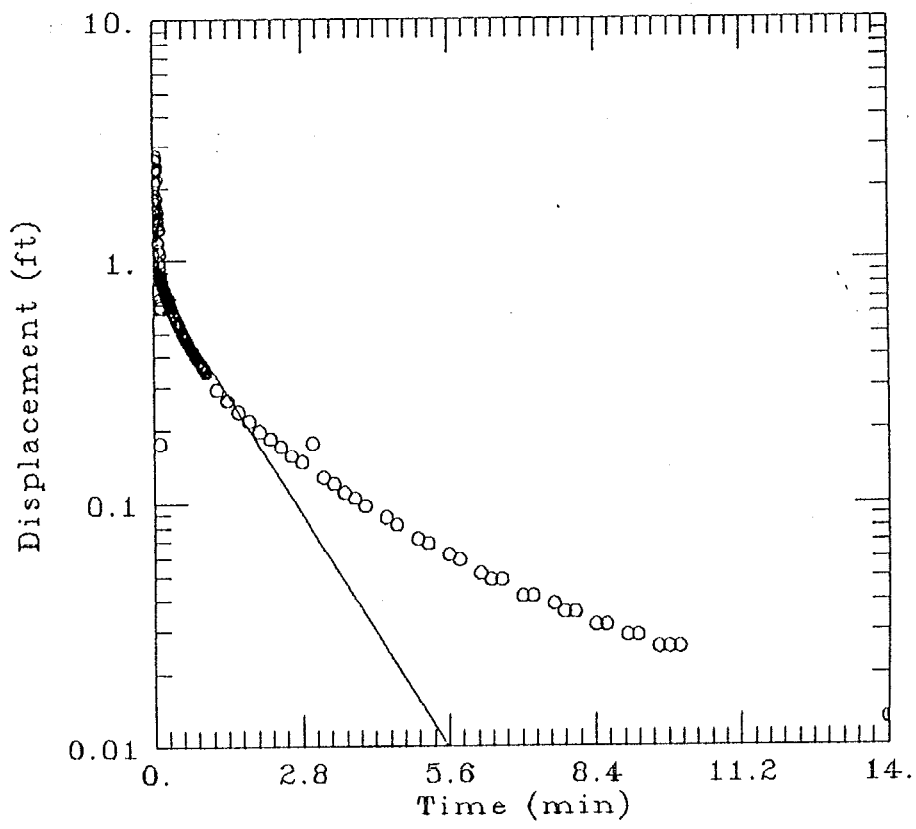
RESULTS FROM

AQTESOLV

ORIG. J. Nowick DATE 8/8/95
CHK'D BY L. Young DATE 8/8/95
CALC. NO 322-G-001
REV. NO. 0 SHEET NO. 3-1

Bechtel Environmental, Inc.	Client: Navy South Div
Project No.: 22567	Location: Trumbo Point, NAS Key West

KWM21 Slug In



DATA SET:
kwm21l.dat
08/09/95

AQUIFER TYPE:
Unconfined

SOLUTION METHOD:
Bouwer-Rice

TEST DATE:
6/30

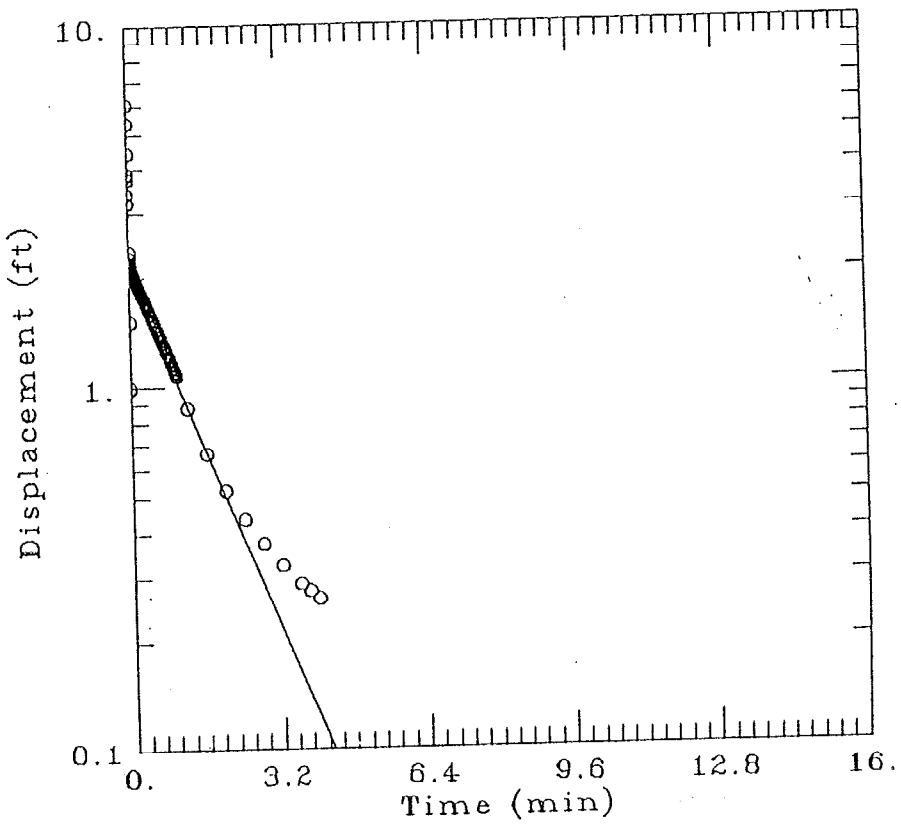
ESTIMATED PARAMETERS:
K = 0.0007187 ft/min
y0 = 0.8472 ft

TEST DATA:
H0 = 1. ft
rc = 0.08333 ft
rw = 0.3333 ft
L = 10. ft
b = 10.5 ft
H = 10.5 ft

ORIG. J. Novick DATE 8/9/95
CHK'D BY L. Young DATE 8/9/95
CALC. NO 322-G-001
REV. NO. 0 SHEET NO. 3-2

Bechtel Environmental, Inc.	Client: Navy South Div
Project No.: 22567	Location: Trumbo Point, NAS Key West

KWM21 Slug Out



DATA SET:
kwm210.dat
08/09/95

AQUIFER TYPE:
Unconfined

SOLUTION METHOD:
Bouwer-Rice

TEST DATE:
6/30/95

ESTIMATED PARAMETERS:
K = 0.0006361 ft/min
y0 = 2.055 ft

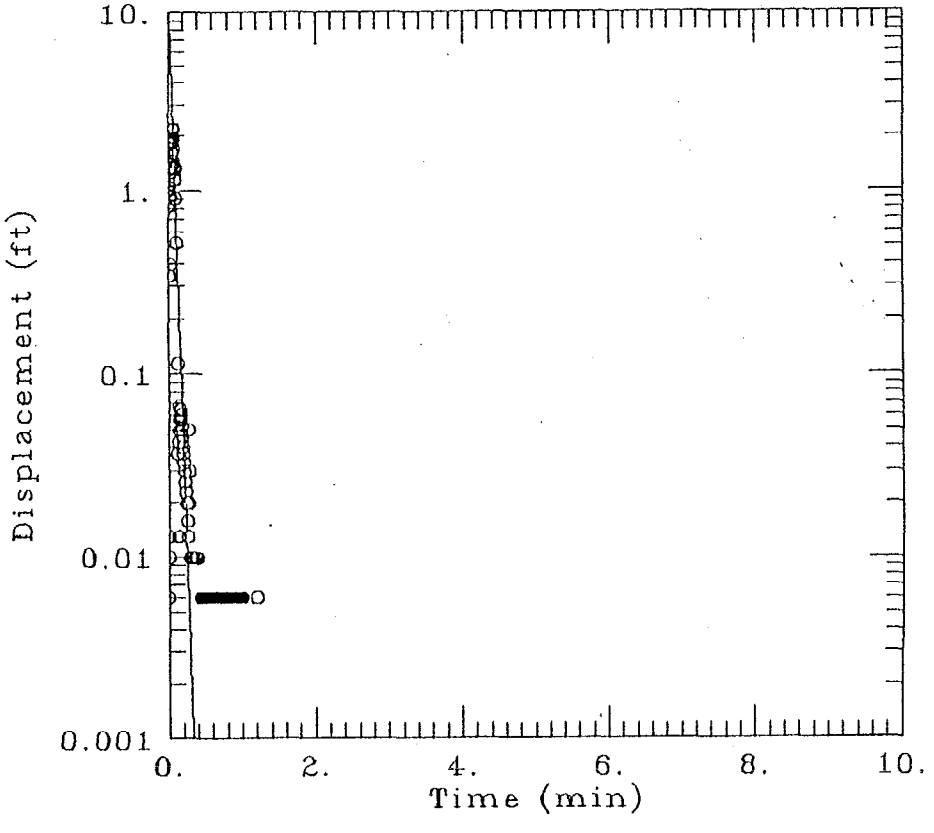
TEST DATA:
H0 = 1. ft
rc = 0.08333 ft
rw = 0.3333 ft
L = 10. ft
b = 10.5 ft
H = 10.5 ft

ORIG. J. Novak DATE 8/9/95
CHKD BY L. Cam DATE 8/9/95
CALC. NO 322-G-001
REV. NO 0 SHEET NO. 3-3

006674

Bechtel Environmental, Inc.	Client: Navy South Div
Project No.: 22567	Location: Trumbo Point, NAS Key West

MW3D Slug In



DATA SET:
mw3d1.dat
07/06/95

AQUIFER TYPE:
Unconfined

SOLUTION METHOD:
Bouwer-Rice

TEST DATE:
6/30/95

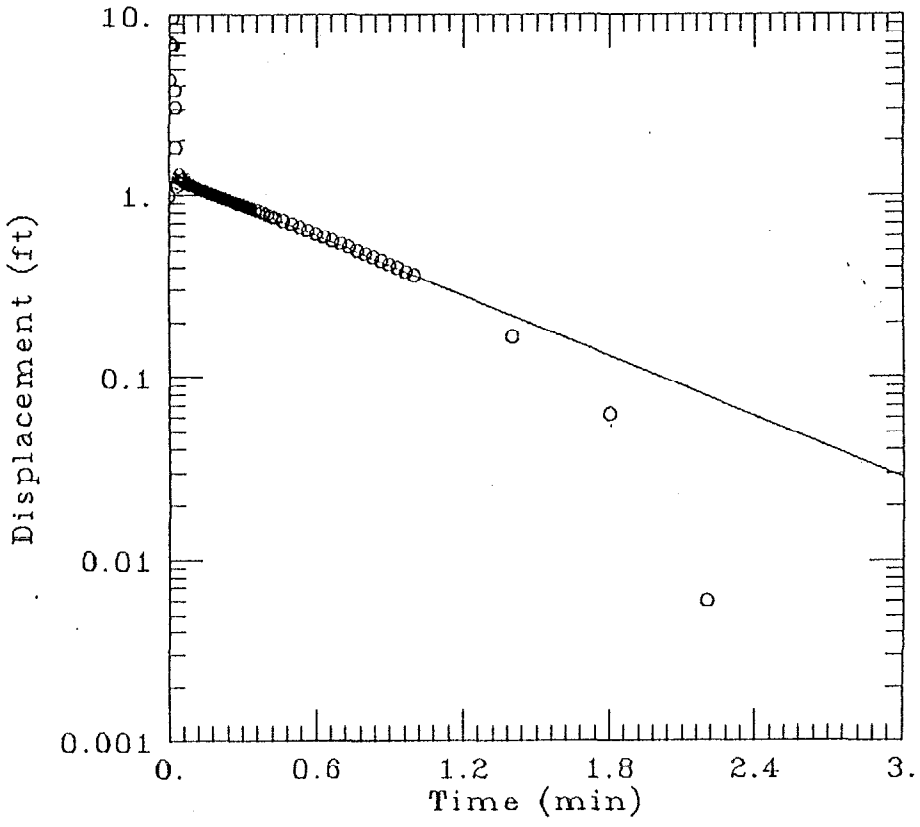
ESTIMATED PARAMETERS:
K = 0.03643 ft/min
y0 = 19.4 ft

TEST DATA:
H0 = 1. ft
rc = 0.08333 ft
rw = 0.3333 ft
L = 10. ft
b = 45.85 ft
H = 45.85 ft

ORIG. J. Nowicki DATE 8/8/95
CHK'D BY L. Young DATE 8/9/95
CALC. NO 322-G-001
REV. NO. 0 SHEET NO. 3-4

Bechtel Environmental, Inc.	Client: Navy Sout Div
Project No.: 22567	Location: Trumbo Point, NAS Key West

MW3D Slug Out



DATA SET:
mw3do.dat
07/06/95

AQUIFER TYPE:
Unconfined

SOLUTION METHOD:
Bouwer-Rice

TEST DATE:
6/30/95

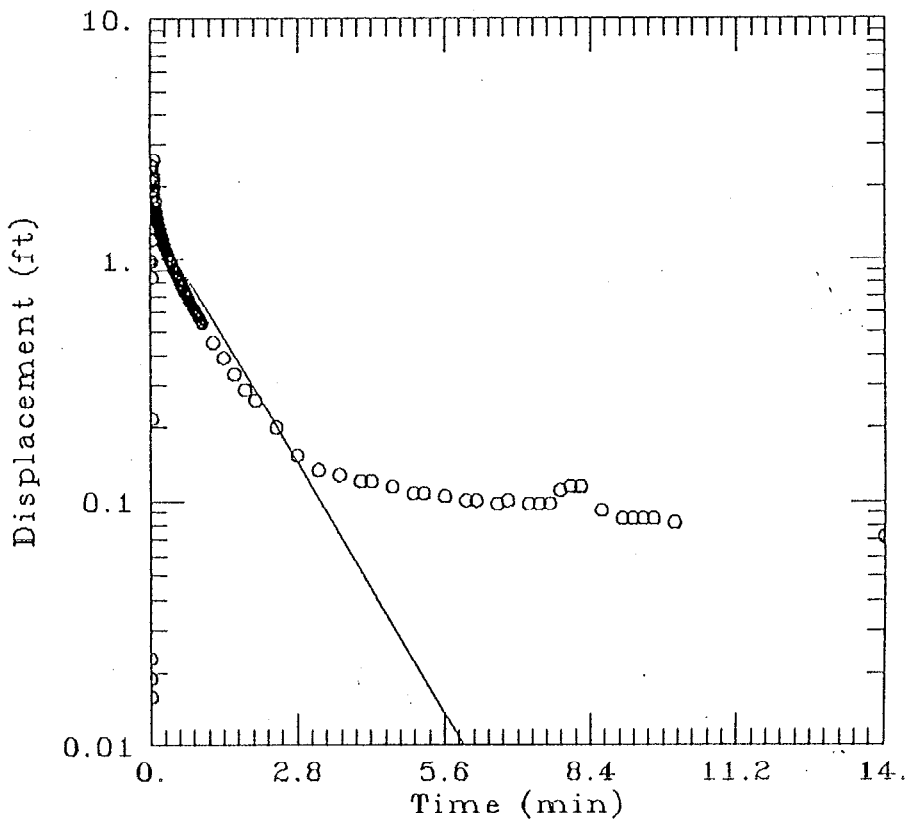
ESTIMATED PARAMETERS:
K = 0.001531 ft/min
y0 = 1.289 ft

TEST DATA:
H0 = 1. ft
rc = 0.08333 ft
rw = 0.3333 ft
L = 10. ft
b = 45.85 ft
H = 45.85 ft

ORIG. J. Novicki DATE 8/8/95
CHK'D BY L. Yoon DATE 8/8/95
CALC. NO 1322-G-001
REV. NO. 0 SHEET NO. 2-5

Bechtel Environmental, Inc.	Client: Navy South Div.
Project No.: 22567	Location: Trumbo Point, NAS Key West

MW9-13 Slug In



DATA SET:
mw9131.dat
08/09/95

AQUIFER TYPE:
Unconfined

SOLUTION METHOD:
Bouwer-Rice

TEST DATE:
6/30/95

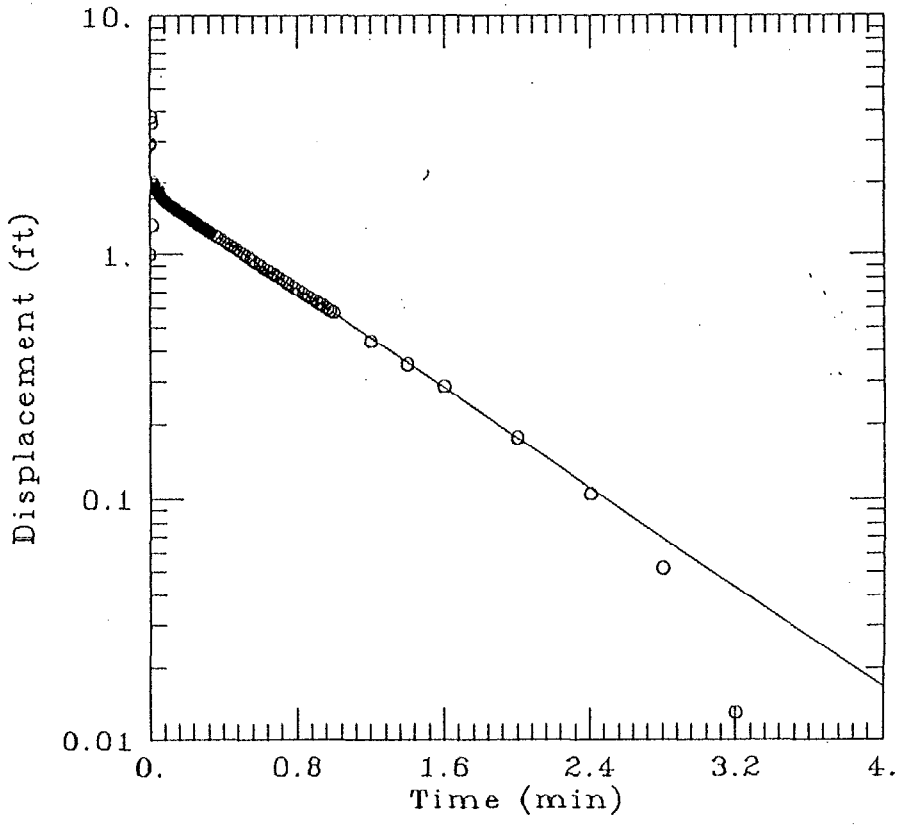
ESTIMATED PARAMETERS:
K = 0.0007568 ft/min
y0 = 1.516 ft

TEST DATA:
H0 = 1. ft
rc = 0.08333 ft
rw = 0.3333 ft
L = 10. ft
b = 10.41 ft
H = 10.41 ft

ORIG. J. Novick DATE 8/9/95
CHKD BY L. Young DATE 8/9/95
CALC. NO 322-C-001
REV. NO. 0 SHEET NO. 3-6

Bechtel Environmental, Inc.	Client: Navy South Div
Project No.: 22567	Location: Trumbo Point, NAS Key West

MW9-13 Slug Out



DATA SET:
mw913o.dat
08/09/95

AQUIFER TYPE:
Unconfined

SOLUTION METHOD:
Bouwer-Rice

TEST DATE:
6/30/95

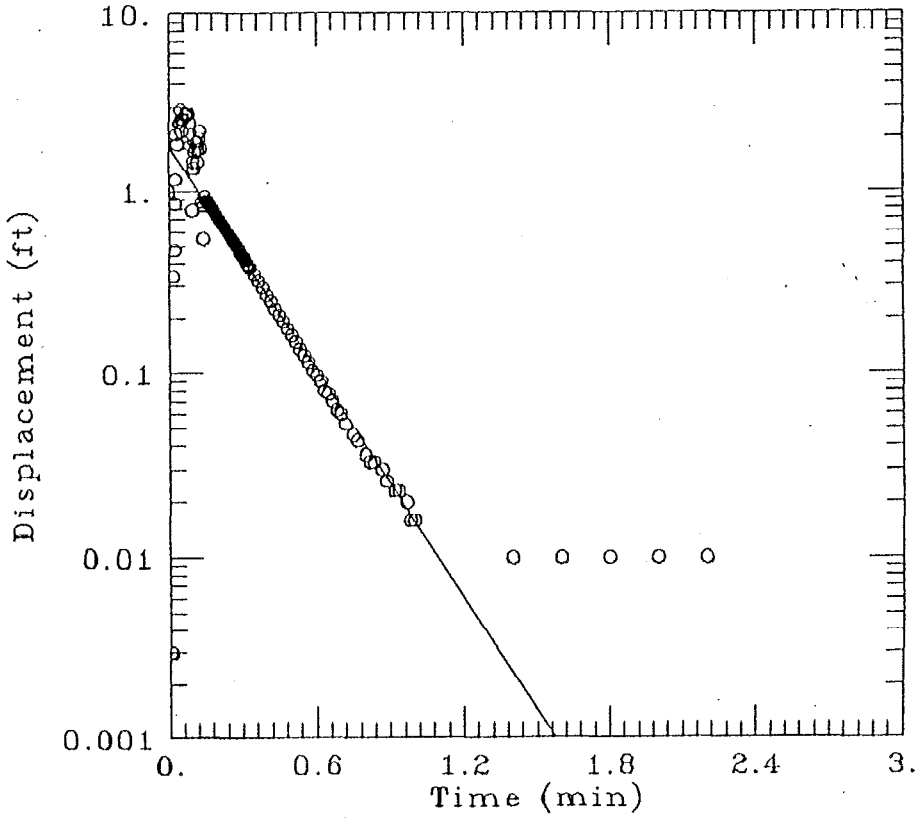
ESTIMATED PARAMETERS:
K = 0.001059 ft/min
y0 = 1.852 ft

TEST DATA:
H0 = 1. ft
rc = 0.08333 ft
rw = 0.3333 ft
L = 10. ft
b = 10.41 ft
H = 10.41 ft

PREP. J. Novick DATE 8/9/95
CHKD BY L. Young DATE 9/5/95
CALC. NO 321-G-001
REV. NO. 0 SHEET NO. 3-7

Bechtel Environmental, Inc.	Client: Navy South Div
Project No.: 22567	Location: Trumbo Point, Key West

MW10 Slug In



DATA SET:
mw101.dat
07/06/95

AQUIFER TYPE:
Unconfined

SOLUTION METHOD:
Bouwer-Rice

TEST DATE:
6/30/95

ESTIMATED PARAMETERS:
K = 0.005568 ft/min
y0 = 1.791 ft

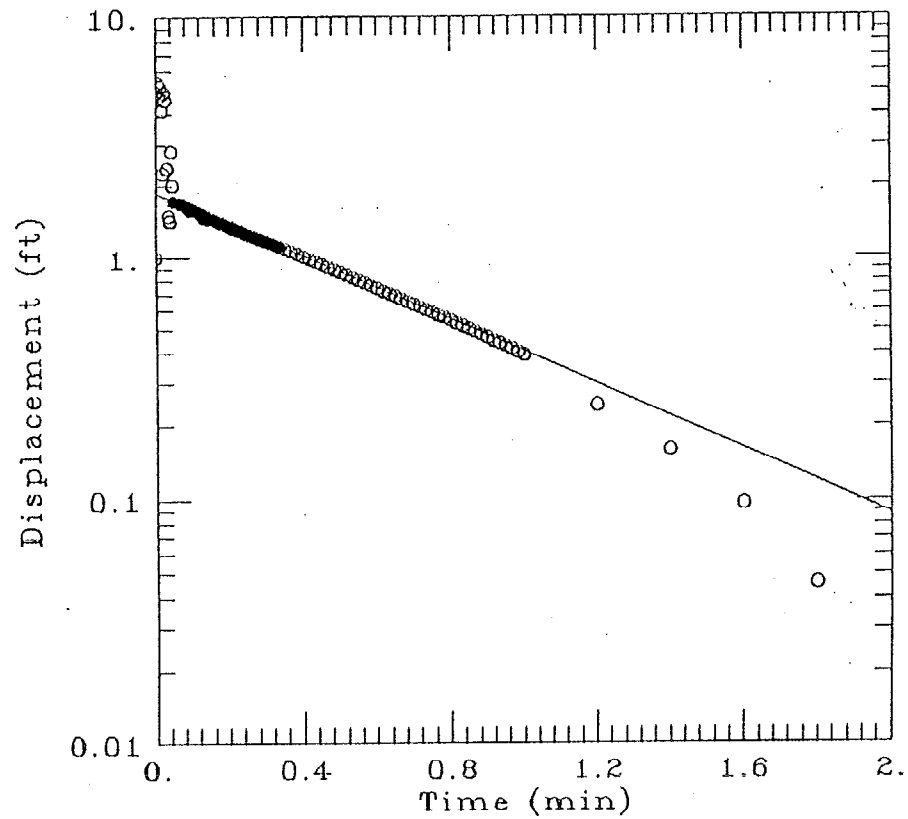
TEST DATA:
H0 = 1. ft
rc = 0.08333 ft
rw = 0.3333 ft
L = 10. ft
b = 39.44 ft
H = 39.44 ft

ORIG. J. Novick DATE 8/8/95
CHK'D BY L. Yong DATE 8/8/95
CALC. NO 322-G-001
REV. NO. 0 SHEET NO. 3-8

006674

Bechtel Environmental, Inc.	Client: Navy, South Div
Project No.: 22567	Location: Trumbo Point, Key West

MW10 Slug Out



DATA SET:
mw10o.dat
07/06/95

AQUIFER TYPE:
Unconfined

SOLUTION METHOD:
Bouwer-Rice

TEST DATE:
6/30/95

ESTIMATED PARAMETERS:
K = 0.001787 ft/min
y0 = 1.86 ft

TEST DATA:
H0 = 1. ft
rc = 0.08333 ft
rw = 0.3333 ft
L = 10. ft
b = 39.44 ft
H = 39.44 ft

ORIG. J. Novick DATE 8/8/95
CHK'D BY L. Yang DATE 8/8/95
CALC. NO 322-G-001
REV. NO. 0 SHEET NO. 3-9

006674