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ENGINEERING DATA TRANSMITTAL

Page 1 of 1

1. EDT 606149

2. To: (Receiving Organization) Distribution	3. From: (Originating Organization) 86B20	4. Related EDT No.: N/A
5. Proj./Prog./Dept./Div.: WAE/LES	6. Cog. Engr.: L.C. Swanson	7. Purchase Order No.: N/A
8. Originator Remarks: Review and release of SD.		9. Equip./Component No.: N/A
		10. System/Bldg./Facility: N/A
		12. Major Assm. Dwg. No.: N/A
11. Receiver Remarks:		13. Permit/Permit Application No.: N/A
		14. Required Response Date:

15. DATA TRANSMITTED

(A) Item No.	(B) Document/Drawing No.	(C) Sheet No.	(D) Rev. No.	(E) Title or Description of Data Transmitted	(F) Approval Designator	(G) Reason for Transmittal	(H) Originator Disposition	(I) Receiver Disposition
1	WHC-SD-EN-DP-089		0	Aquifer Testing Data Package for 1993 200-UP-1 Groundwater Operable Unit	N/A	1/2	1	

16. KEY

Approval Designator (F)	Reason for Transmittal (G)		Disposition (H) & (I)	
E, S, Q, D OR N/A (See WHC-CM-3-5, Sec. 12.7)	1. Approval 2. Release 3. Information	4. Review 5. Post-Review 6. Dist. (Receipt Acknow. Required)	1. Approved 2. Approved w/comment 3. Disapproved w/comment	4. Reviewed no/comment 5. Reviewed w/comment 6. Receipt acknowledged

17. SIGNATURE/DISTRIBUTION (See Approval Designator for required signatures)

(G) Reason	(H) Disp.	(J) Name	(K) Signature	(L) Date	(M) MSIN	(J) Name	(K) Signature	(L) Date	(M) MSIN	(G) Reason	(H) Disp.
1	1	Cog. Eng. L.C. Swanson	H6-06	6/3/94	H6-06	EPIC			H6-08	3	
1	1	Cog. Mgr. R.L. Jackson	H6-06	6/3/94	H6-06	Central Files (2)			L8-04	3	
		QA				IRA (2)			H4-17	3	
		Safety				L.S. Hermann			H6-07	3	
		Env.									

18.	19.	20.	21. DOE APPROVAL (if required)
L.C. Swanson 6/3/94 Signature of EDT Originator — Date	Authorized Representative for Receiving Organization — Date	R.L. Jackson 6/3/94 Cognizant Manager — Date	Ctrl No. ☐ Approved ☐ Approved w/comments ☐ Disapproved w/comments

BD-7400-172-1 (07/91)

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Date Received: 6/20/94 DS

INFORMATION RELEASE REQUEST

Reference: WHC-CM-3-4

Complete for all Types of Release

Purpose

- [] Speech or Presentation
  - [] Full Paper
  - [] Summary
  - [] Abstract
  - [] Visual Aid
- [] Speakers Bureau
- [] Poster Session
- [] Videotape

(Check only one suffix)

- [] Reference
- [X] Technical Report
- [] Thesis or Dissertation
- [] Manual
- [] Brochure/Flier
- [] Software/Database
- [] Controlled Document
- [] Other

ID Number (include revision, volume, etc.): WHC-SD-EN-DP-089, Rev. C

List attachments.

Date Release Required

Title: Aquifer Testing Data Package for 1993 200-UP-1 Groundwater Operable Unit

Unclassified Category: UC-N/A

Impact Level: N/A

New or novel (patentable) subject matter? [X] No [] Yes
If "Yes", has disclosure been submitted by WHC or other company?
[] No [] Yes Disclosure No(s).

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Date(s) of Conference or Meeting: N/A

City/State:

Will proceedings be published? [] Yes [] No
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Title of Journal: N/A

CHECKLIST FOR SIGNATORIES

Review Required per WHC-CM-3-4	Yes	No	Reviewer - Signature Indicates Approval: Name (printed) / Signature / Date
Classification/Unclassified Controlled Nuclear Information	[]	[X]	
Patent - General Counsel	[]	[X]	
Legal - General Counsel	[]	[X]	
Applied Technology/Export Controlled Information or International Program	[]	[X]	
WHC Program/Project	[]	[X]	
Communications	[]	[X]	
RL Program/Project	[X]	[X]	Review returned per telecon N.S. Hermann 6-17-94
Publication Services	[X]	[]	L.C. Hanson for N. Dolia for R. Hermann Per telecon 6/20/94
Other Program/Project	[]	[X]	

Information conforms to all applicable requirements. The above information is certified to be correct.

	Yes	No
References Available to Intended Audience	[]N/A	[]
Transmit to DOE-HQ/Office of Scientific and Technical Information	[X]	[]

Author/Requestor (Printed/Signature) Date
L.C. Swanson L.C. Swanson 6/3/94

Intended Audience
[] Internal [] Sponsor [X] External

Responsible Manager (Printed/Signature) Date
R.L. Jackson R.L. Jackson 6/8/94

INFORMATION RELEASE ADMINISTRATION APPROVAL STAMP

Stamp is required before release. Release is contingent upon resolution of mandatory comments.

APPROVED FOR RELEASE DS 6/20/94

Date Cancelled | Date Disapproved

SUPPORTING DOCUMENT

1. Total Pages 216

2. Title

Aquifer Testing Data Package for 1993 200-UP-1 Groundwater Operable Unit

3. Number

WHC-SD-EN-DP-089

4. Rev No.

0

5. Key Words

299-W11-10, 299-W12-1, 299-W14-10, 299-W19-4, 299-W22-41, 699-35-70, 699-37-82A, 699-38-70, Slug Test, Pump Test, 200-UP-1

APPROVED FOR PUBLIC RELEASE

6/20/94 M. Sola

6. Author

Name: L. C. Swanson

L C Swanson

Signature

Organization/Charge Code

86B20/PT1EA

7. Abstract

Swanson, L. C., 1994, *Aquifer Testing Data Package for 1993 200-UP-1 Groundwater Operable Unit*, WHC-SD-EN-DP-089, Rev. 0, Westinghouse Hanford Company, Richland, Washington.

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9. Impact Level N/A

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DATE JUN 24 1994

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A-6400-073 (11/91) (EF) WEF124

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APPENDIX A 299-W11-10 Slug Test

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APPENDIX D 299-W12-1 Pump Test

APPENDIX E 299-W14-10 Slug Test

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APPENDIX H 699-35-70 Slug Test

APPENDIX I 699-37-82A Slug Test

APPENDIX J 699-38-70 Slug Test

1.0 INTRODUCTION

The following aquifer testing data supported 1993 Interim Remedial Measure field work for the U-1 and U-2 crib area near the uranium, technetium, and nitrate plumes beneath the U Plant Aggregate Area. The purpose of aquifer testing was to fill in hydraulic conductivity data gaps in the western portion of 200 West Area and help refine the hydrogeologic conceptual model.

This data package reports data collected in accordance with the description of work released in 1993 by L.C. Swanson, entitled *Description of Work for the 200-UP-1 Aquifer Testing Activity* (WHC-SD-EN-AP-130, Rev. 0). These data are analyzed in the document *Aquifer Test Analysis Results for 1993 200-UP-1 Groundwater Operable Unit* (L.C. Swanson, 1994, WHC-SD-EN-TI-254).

Slug tests were conducted at 7 existing wells, and pumping tests were conducted at 2 of those same existing wells. Data for the following test wells are included in this data package:

299-W11-10 (slug [Appendix A] and pumping tests [Appendix B])
299-W12-1 (slug [Appendix C] and pumping tests [Appendix D])
299-W14-10 (slug test [Appendix E])
299-W19-4 (slug test [Appendix F])
299-W22-41 (slug test [Appendix G])
699-35-70 (slug test [Appendix H])
699-37-82A (slug test [Appendix I])
699-38-70 (slug test [Appendix J])

APPENDIX A

299-W11-10 SLUG TEST DATA

BOREHOLE TEST INFORMATION

page 1 of 1

Borehole 299-W11-10 Borehole Diameter 8 in. Hanford Coordinates N/A

Interval Tested 279'-298.5' Perf'ed Interval 258.21-298.50' Test Type: Instantaneous Slug

Borehole Depth: 298.50' Instruction Used: WHC-CM-7-7 (EII 10.1)

EQUIPMENT

NAME	DESCRIPTION
Electric Sounder	Solinst s/n: ET-4 Calibration due: 1-30-94
Data Logger	In-Situ Inc. s/n: 2K-459
Pressure Transducer	In-Situ Inc. s/n: 2240DE Calibration due: 3-11-94
Slugging Rod	BR-2: 0.194 Cu. Ft.
Steel Measuring Tape	500' Graduated Steel Tape

MEASUREMENT DATUM

Control Datum: Top of Casing (TOC) 8"

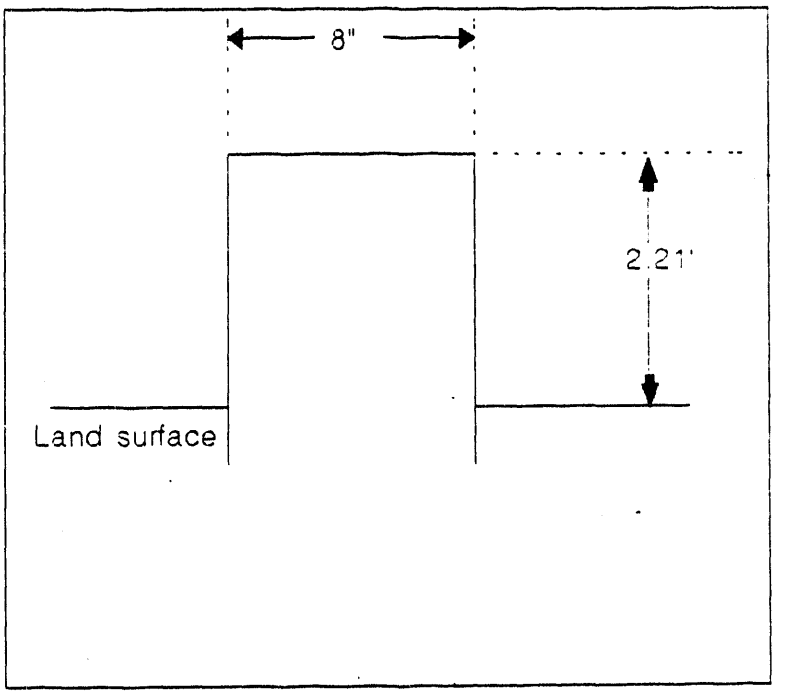
Elevation: N/A

Electric Sounder: TOC 8"

Steel Tape: TOC 8"

Pressure Transducer: TOC 8"

WELL HEAD DIAGRAM



COMMENTS

No Pad.

Recorded by: Robert S. Edrington Date: 8/16/93

Sign and Print Name

FIELD ACTIVITY REPORT

Report 1 of ____

Page 1 of 1

Purpose: Aquifer Testing

Date	Well/Excavation No.	Rig Type	Contract/Work Order No.	Start Card No.
8/16/93	299W-11-10	Simco ST	PLB53	

Operable Unit/Project: 200 UP-1

Location: 1/4 mi East of T-Plant

Reference: WHC-SD-EN-AP-130 Rev 1

Activity: Slug test

PERSONNEL:

FTL:

Geologist:

Driller: P. Parish WHC

Helper: D Hollingsworth WHC

HPT: J. Brown WHC

SSO:

Other: B Strode MCE/WHC

TIME: Start: 0910 Finish: 1150

DELAYS/EXPLANATIONS: The O V M that was supplied by EFS was inoperable. Wait for new one (1 HR 10 min)

Description of Operations/Remarks

0910 on site 299W-11-10 waiting on EFS
1020 Start test #0 SWL 275.20 ET-4 (1/30/94) x-ducer #2240 — 3/11/94 / Hermit #2K-459 / Depth 9.796' / Tag TOC 8" 295.50'
1034 Stop test #0
1035 Start test #1 injection (B-22 .194 cu. ft)
1055 Stop test #1
1056 Start test #2 Baseline
1112 Stop test #2
1113 Start test #3 withdrawl
1133 Stop test #3 SWL 275.18 ET-4 / 2.21 Stick-up /
1150 well Head Secure

Report By: B. F. Strode (Print) (Sign) Date: 8/16/93

Title/Company: Equipment Tech MCE/WHC

A-6001-123 (03/93)

INSTANTANEOUS SLUG TEST DATA SHEET: INJECTION

Borehole: 299-W11-10

Interval Tested: 275.20'-298.50' TOC 8"

Depth To Water: 275.20' TOC 8"

Depth to Transducer: 9.796' BWL

Measured by: Bret F. Strode

Slug Volume: BR-2 0.194 Cu ft

Barometric Reading:
Beginning: N/A End: N/A

Time:	Start	End
Baseline	1020	1034
Injection	1035	1055

Date: 8-16-93

Initial Pressure (Pi): 275.20

Slug Level/Pressure (Pmax) 274.918

Borehole Diameter: 8"

Time		Pressure	Time		Pressure	Time		Pressure
Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement

Recorded by: Robert S. Edrington Date: 8-17-93
Sign and Print Name

BD-6000-293(07/90)

299-W11-10 Slug Injection

Datalogger: Hermit Unit# 459
Input #1
Water Level in Feet below top of Casing
SWL: 275.200'

Test 1 Injection
Injection: 10:35 8/16/93

Time:min	Time:hrs	D-T-W:Ft	d(WL):Ft
0.0000	0.00000	274.997	-274.997
0.0083	0.00014	275.237	-275.237
0.0166	0.00028	275.016	-275.016
0.0250	0.00042	275.139	-275.139
0.0333	0.00056	274.918	-274.918
0.0416	0.00069	274.925	-274.925
0.0500	0.00083	275.057	-275.057
0.0583	0.00097	274.975	-274.975
0.0666	0.00111	274.994	-274.994
0.0750	0.00125	274.972	-274.972
0.0833	0.00139	275.000	-275.000
0.0916	0.00153	274.994	-274.994
0.1000	0.00167	274.988	-274.988
0.1083	0.00181	274.991	-274.991
0.1166	0.00194	274.994	-274.994
0.1250	0.00208	274.997	-274.997
0.1333	0.00222	274.997	-274.997
0.1416	0.00236	274.997	-274.997
0.1500	0.00250	275.000	-275.000
0.1583	0.00264	275.000	-275.000
0.1666	0.00278	275.000	-275.000
0.1750	0.00292	275.007	-275.007
0.1833	0.00306	275.007	-275.007
0.1916	0.00319	275.007	-275.007
0.2000	0.00333	275.000	-275.000
0.2083	0.00347	275.004	-275.004
0.2166	0.00361	275.010	-275.010
0.2250	0.00375	275.010	-275.010
0.2333	0.00389	275.013	-275.013
0.2416	0.00403	275.013	-275.013
0.2500	0.00417	275.016	-275.016

Test 0 Baseline
Baseline Start: 10:19 8/16/93

Time:min	Time:hrs	D-T-W:Ft	d(WL):Ft
0	0.00000	275.196	-275.196
1	0.01667	275.193	-275.193
2	0.03333	275.193	-275.193
3	0.05000	275.190	-275.190
4	0.06667	275.190	-275.190
5	0.08333	275.187	-275.187
6	0.10000	275.187	-275.187
7	0.11667	275.187	-275.187
8	0.13333	275.184	-275.184
9	0.15000	275.184	-275.184
10	0.16667	275.184	-275.184
11	0.18333	275.184	-275.184
12	0.20000	275.184	-275.184
13	0.21667	275.184	-275.184
14	0.23333	275.184	-275.184

299-W11-10 Slug Injection

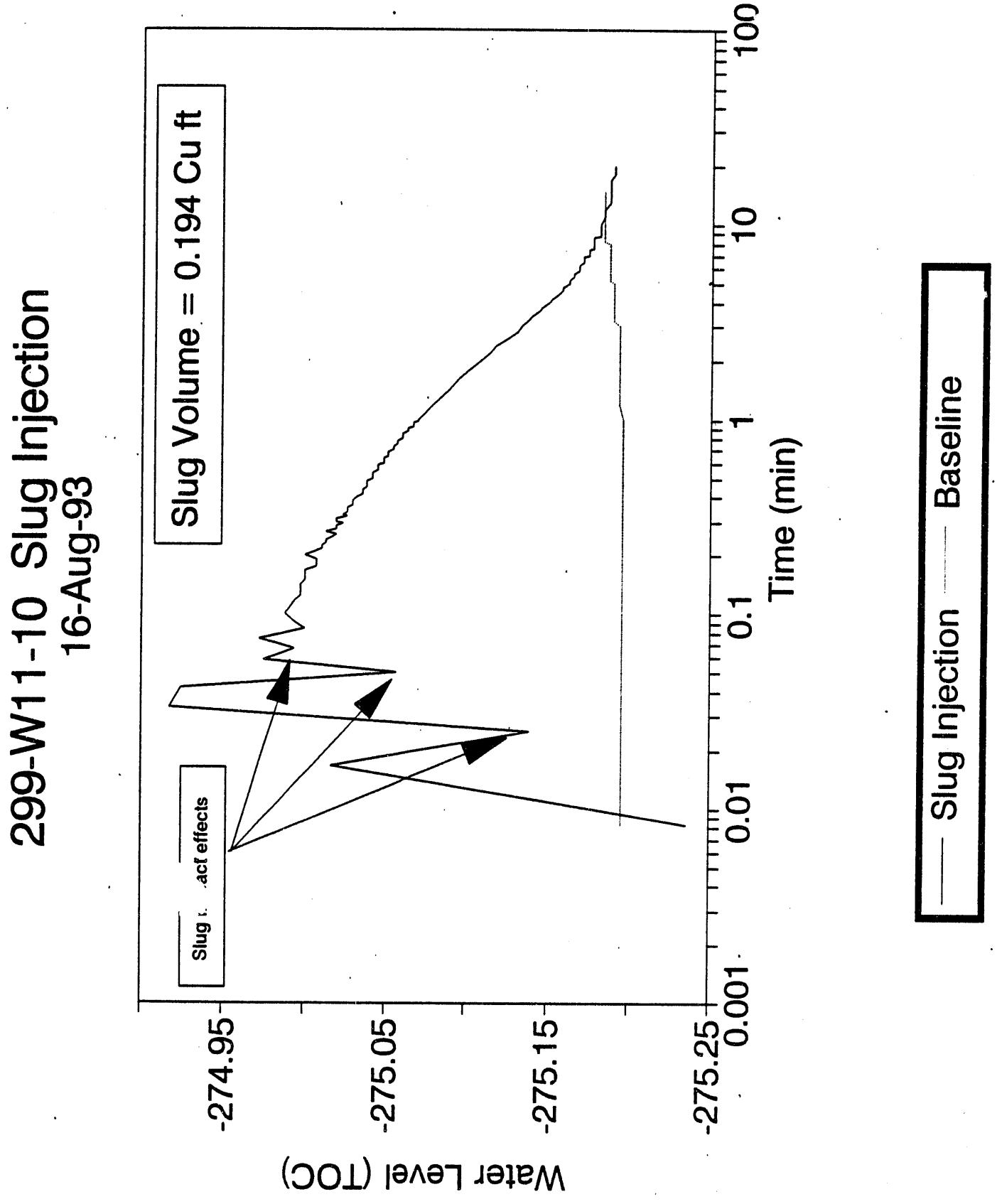
0.2583	0.00431	275.019	-275.019
0.2666	0.00444	275.013	-275.013
0.2750	0.00458	275.019	-275.019
0.2833	0.00472	275.019	-275.019
0.2916	0.00486	275.023	-275.023
0.3000	0.00500	275.019	-275.019
0.3083	0.00514	275.019	-275.019
0.3166	0.00528	275.026	-275.026
0.3250	0.00542	275.023	-275.023
0.3333	0.00556	275.026	-275.026
0.3500	0.00583	275.026	-275.026
0.3666	0.00611	275.029	-275.029
0.3833	0.00639	275.029	-275.029
0.4000	0.00667	275.032	-275.032
0.4166	0.00694	275.035	-275.035
0.4333	0.00722	275.035	-275.035
0.4500	0.00750	275.038	-275.038
0.4666	0.00778	275.038	-275.038
0.4833	0.00806	275.038	-275.038
0.5000	0.00833	275.041	-275.041
0.5166	0.00861	275.041	-275.041
0.5333	0.00889	275.041	-275.041
0.5500	0.00917	275.045	-275.045
0.5666	0.00944	275.045	-275.045
0.5833	0.00972	275.045	-275.045
0.6000	0.01000	275.048	-275.048
0.6166	0.01028	275.048	-275.048
0.6333	0.01056	275.048	-275.048
0.6500	0.01083	275.051	-275.051
0.6666	0.01111	275.051	-275.051
0.6833	0.01139	275.051	-275.051
0.7000	0.01167	275.054	-275.054
0.7166	0.01194	275.054	-275.054
0.7333	0.01222	275.054	-275.054
0.7500	0.01250	275.057	-275.057
0.7666	0.01278	275.057	-275.057
0.7833	0.01306	275.057	-275.057
0.8000	0.01333	275.060	-275.060
0.8166	0.01361	275.060	-275.060
0.8333	0.01389	275.060	-275.060
0.8500	0.01417	275.060	-275.060
0.8666	0.01444	275.064	-275.064

299-W11-10 Slug Injection

0.8833	0.01472	275.064	-275.064
0.9000	0.01500	275.064	-275.064
0.9166	0.01528	275.067	-275.067
0.9333	0.01556	275.067	-275.067
0.9500	0.01583	275.067	-275.067
0.9666	0.01611	275.067	-275.067
0.9833	0.01639	275.070	-275.070
1.00	0.01667	275.070	-275.070
1.20	0.02000	275.079	-275.079
1.40	0.02333	275.089	-275.089
1.60	0.02667	275.095	-275.095
1.80	0.03000	275.102	-275.102
2.00	0.03333	275.108	-275.108
2.20	0.03667	275.114	-275.114
2.40	0.04000	275.117	-275.117
2.60	0.04333	275.124	-275.124
2.80	0.04667	275.130	-275.130
3.00	0.05000	275.133	-275.133
3.20	0.05333	275.136	-275.136
3.40	0.05667	275.139	-275.139
3.60	0.06000	275.143	-275.143
3.80	0.06333	275.146	-275.146
4.00	0.06667	275.149	-275.149
4.20	0.07000	275.152	-275.152
4.40	0.07333	275.155	-275.155
4.60	0.07667	275.158	-275.158
4.80	0.08000	275.158	-275.158
5.00	0.08333	275.162	-275.162
5.20	0.08667	275.162	-275.162
5.40	0.09000	275.165	-275.165
5.60	0.09333	275.165	-275.165
5.80	0.09667	275.168	-275.168
6.00	0.10000	275.168	-275.168
6.20	0.10333	275.168	-275.168
6.40	0.10667	275.171	-275.171
6.60	0.11000	275.171	-275.171
6.80	0.11333	275.171	-275.171
7.00	0.11667	275.174	-275.174
7.20	0.12000	275.174	-275.174
7.40	0.12333	275.174	-275.174
7.60	0.12667	275.177	-275.177
7.80	0.13000	275.177	-275.177

299-W11-10 Slug Injection

8.00	0.13333	275.177	-275.177
8.20	0.13667	275.177	-275.177
8.40	0.14000	275.177	-275.177
8.60	0.14333	275.177	-275.177
8.80	0.14667	275.181	-275.181
9.00	0.15000	275.181	-275.181
9.20	0.15333	275.181	-275.181
9.40	0.15667	275.181	-275.181
9.60	0.16000	275.181	-275.181
9.80	0.16333	275.181	-275.181
10.00	0.16667	275.181	-275.181
11.00	0.18333	275.184	-275.184
12.00	0.20000	275.184	-275.184
13.00	0.21667	275.187	-275.187
14.00	0.23333	275.187	-275.187
15.00	0.25000	275.187	-275.187
16.00	0.26667	275.187	-275.187
17.00	0.28333	275.187	-275.187
18.00	0.30000	275.190	-275.190
19.00	0.31667	275.190	-275.190
20.00	0.33333	275.190	-275.190


299-W11-10 Slug Injection
16-Aug-93
Slug Volume = 0.194 Cu ft
Slug i: .act effects
Water Level (TOC)
-274.95
-275.05
-275.15
-275.25
0.001
0.01
0.1
1
10
100
Time (min)
Slug Injection
Baseline

INSTANTANEOUS SLUG TEST DATA SHEET :WITHDRAWAL

Borehole: 299-W11-10

Interval Tested: 275.20'-298.50' TOC 8"

Depth To Water: 275.20' TOC 8"

Depth to Transducer: 9.796' BWL

Measured by: Bret F. Strode

Slug Volume: BR-2 0.194 Cu ft

Barometric Reading:
Beginning: N/A End: N/A

Time:	Start	End
Baseline	1056	1112
Withdrawal	1113	1133

Date: 8-16-93

Initial Pressure (Pi): 275.20'

Slug Level/Pressure (Pmax) 275.484'

Borehole Diameter: 8"

Time		Pressure	Time		Pressure	Time		Pressure
Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement
		See Attached.						
					See Attached.			

Recorded by: Robert S. Edrington Date: 8-17-93
Sign and Print Name

BD-6000-293(07/90)

299-W11-10 Slug Withdrawal

299-W11-10 Slug Withdrawal

Datalogger: Hermit Unit# 459
Input #1
Water Level in Feet below top of Casing
SWL: 275.200'

Test 3 Withdrawal
Withdrawal: 11:13 8/16/93

Time:min	Time:hrs	D-T-W:Ft	d(WL):Ft
0.0000	0.00000	275.449	-275.449
0.0083	0.00014	275.437	-275.437
0.0166	0.00028	275.449	-275.449
0.0250	0.00042	275.484	-275.484
0.0333	0.00056	275.471	-275.471
0.0416	0.00069	275.462	-275.462
0.0500	0.00083	275.437	-275.437
0.0583	0.00097	275.427	-275.427
0.0666	0.00111	275.421	-275.421
0.0750	0.00125	275.418	-275.418
0.0833	0.00139	275.427	-275.427
0.0916	0.00153	275.418	-275.418
0.1000	0.00167	275.424	-275.424
0.1083	0.00181	275.424	-275.424
0.1166	0.00194	275.421	-275.421
0.1250	0.00208	275.414	-275.414
0.1333	0.00222	275.418	-275.418
0.1416	0.00236	275.411	-275.411
0.1500	0.00250	275.405	-275.405
0.1583	0.00264	275.402	-275.402
0.1666	0.00278	275.402	-275.402
0.1750	0.00292	275.402	-275.402
0.1833	0.00306	275.399	-275.399
0.1916	0.00319	275.399	-275.399
0.2000	0.00333	275.399	-275.399
0.2083	0.00347	275.399	-275.399
0.2166	0.00361	275.395	-275.395
0.2250	0.00375	275.395	-275.395
0.2333	0.00389	275.395	-275.395
0.2416	0.00403	275.392	-275.392
0.2500	0.00417	275.389	-275.389

Test 2 Baseline
Baseline Start: 10:56 8/16/93

Time:min	Time:hrs	D-T-W:Ft	d(WL):Ft
0	0.00000	275.190	-275.190
1	0.01667	275.190	-275.190
2	0.03333	275.190	-275.190
3	0.05000	275.190	-275.190
4	0.06667	275.193	-275.193
5	0.08333	275.193	-275.193
6	0.10000	275.190	-275.190
7	0.11667	275.190	-275.190
8	0.13333	275.190	-275.190
9	0.15000	275.190	-275.190
10	0.16667	275.190	-275.190
11	0.18333	275.190	-275.190
12	0.20000	275.190	-275.190
13	0.21667	275.187	-275.187
14	0.23333	275.187	-275.187

299-W11-10 Slug Withdrawal

0.2583	0.00431	275.389	-275.389
0.2666	0.00444	275.389	-275.389
0.2750	0.00458	275.389	-275.389
0.2833	0.00472	275.386	-275.386
0.2916	0.00486	275.386	-275.386
0.3000	0.00500	275.386	-275.386
0.3083	0.00514	275.386	-275.386
0.3166	0.00528	275.383	-275.383
0.3250	0.00542	275.383	-275.383
0.3333	0.00556	275.380	-275.380
0.3500	0.00583	275.380	-275.380
0.3666	0.00611	275.380	-275.380
0.3833	0.00639	275.377	-275.377
0.4000	0.00667	275.377	-275.377
0.4166	0.00694	275.373	-275.373
0.4333	0.00722	275.373	-275.373
0.4500	0.00750	275.370	-275.370
0.4666	0.00778	275.367	-275.367
0.4833	0.00806	275.367	-275.367
0.5000	0.00833	275.367	-275.367
0.5166	0.00861	275.364	-275.364
0.5333	0.00889	275.364	-275.364
0.5500	0.00917	275.361	-275.361
0.5666	0.00944	275.361	-275.361
0.5833	0.00972	275.358	-275.358
0.6000	0.01000	275.358	-275.358
0.6166	0.01028	275.354	-275.354
0.6333	0.01056	275.354	-275.354
0.6500	0.01083	275.354	-275.354
0.6666	0.01111	275.351	-275.351
0.6833	0.01139	275.351	-275.351
0.7000	0.01167	275.348	-275.348
0.7166	0.01194	275.348	-275.348
0.7333	0.01222	275.345	-275.345
0.7500	0.01250	275.345	-275.345
0.7666	0.01278	275.345	-275.345
0.7833	0.01306	275.342	-275.342
0.8000	0.01333	275.342	-275.342
0.8166	0.01361	275.342	-275.342
0.8333	0.01389	275.339	-275.339
0.8500	0.01417	275.339	-275.339
0.8666	0.01444	275.339	-275.339

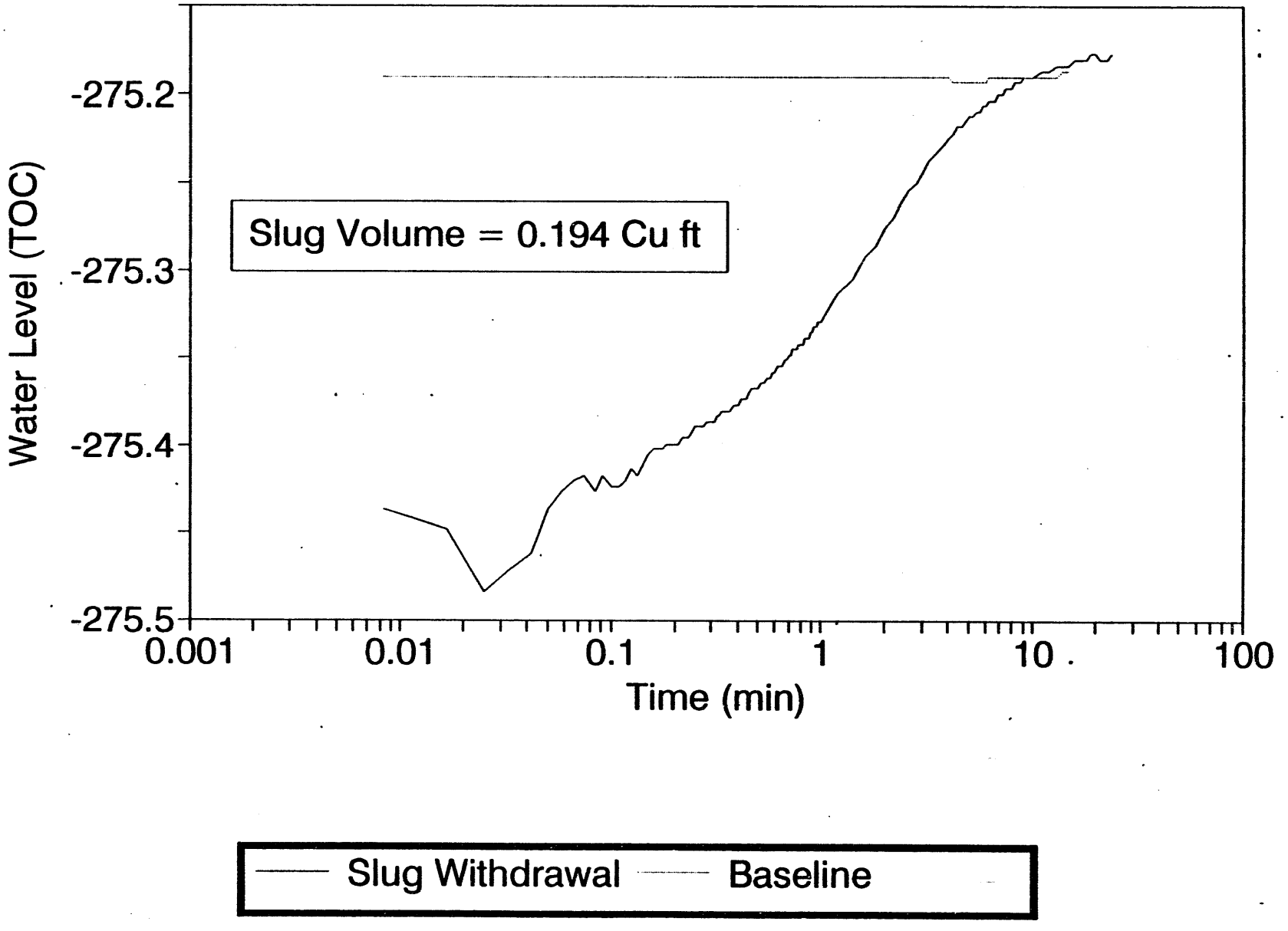
299-W11-10 Slug Withdrawal

0.8833	0.01472	275.335	-275.335	
0.9000	0.01500	275.335	-275.335	
0.9166	0.01528	275.332	-275.332	
0.9333	0.01556	275.332	-275.332	
0.9500	0.01583	275.332	-275.332	
0.9666	0.01611	275.329	-275.329	
0.9833	0.01639	275.329	-275.329	
1.00	0.01667	275.329	-275.329	1 min
1.20	0.02000	275.313	-275.313	
1.40	0.02333	275.304	-275.304	
1.60	0.02667	275.291	-275.291	
1.80	0.03000	275.285	-275.285	
2.00	0.03333	275.275	-275.275	2 min
2.20	0.03667	275.269	-275.269	
2.40	0.04000	275.260	-275.260	
2.60	0.04333	275.253	-275.253	
2.80	0.04667	275.250	-275.250	
3.00	0.05000	275.244	-275.244	3 min
3.20	0.05333	275.237	-275.237	
3.40	0.05667	275.234	-275.234	
3.60	0.06000	275.231	-275.231	
3.80	0.06333	275.228	-275.228	
4.00	0.06667	275.225	-275.225	4 min
4.20	0.07000	275.222	-275.222	
4.40	0.07333	275.218	-275.218	
4.60	0.07667	275.218	-275.218	
4.80	0.08000	275.215	-275.215	
5.00	0.08333	275.212	-275.212	5 min
5.20	0.08667	275.212	-275.212	
5.40	0.09000	275.209	-275.209	
5.60	0.09333	275.209	-275.209	
5.80	0.09667	275.206	-275.206	
6.00	0.10000	275.206	-275.206	6 min
6.20	0.10333	275.203	-275.203	
6.40	0.10667	275.203	-275.203	
6.60	0.11000	275.203	-275.203	
6.80	0.11333	275.200	-275.200	
7.00	0.11667	275.200	-275.200	7 min
7.20	0.12000	275.200	-275.200	
7.40	0.12333	275.196	-275.196	
7.60	0.12667	275.196	-275.196	
7.80	0.13000	275.196	-275.196	

299-W11-10 Slug Withdrawal

8.00	0.13333	275.196	-275.196	8 min
8.20	0.13667	275.193	-275.193	
8.40	0.14000	275.193	-275.193	
8.60	0.14333	275.193	-275.193	
8.80	0.14667	275.193	-275.193	
9.00	0.15000	275.190	-275.190	9 min
9.20	0.15333	275.190	-275.190	
9.40	0.15667	275.190	-275.190	
9.60	0.16000	275.190	-275.190	
9.80	0.16333	275.190	-275.190	
10.00	0.16667	275.190	-275.190	10 min
11.00	0.18333	275.187	-275.187	
12.00	0.20000	275.187	-275.187	
13.00	0.21667	275.184	-275.184	
14.00	0.23333	275.184	-275.184	
15.00	0.25000	275.184	-275.184	
16.00	0.26667	275.181	-275.181	
17.00	0.28333	275.181	-275.181	
18.00	0.30000	275.181	-275.181	
19.00	0.31667	275.177	-275.177	
20.00	0.33333	275.177	-275.177	
21.00	0.35000	275.181	-275.181	
22.00	0.36667	275.181	-275.181	
23.00	0.38333	275.181	-275.181	
24.00	0.40000	275.177	-275.177	

299-W11-10 Slug Withdrawal
16-Aug-93



APPENDIX B

299-W11-10 PUMP TEST DATA

BOREHOLE TEST INFORMATION

Borehole 299-W11-10 Borehole Diameter 8 in. Hanford Coordinates N/A

Perforated interval 258.21'-298.50' SWL 275.34' Test Type: Constant Discharge

Borehole Depth: 298.50' Instruction Used: WHC-CM-7-7 (EII 10.1)

EQUIPMENT

NAME	DESCRIPTION	
Electric Sounder	Solinst s/n: ET-4	Calibration due: 1-30-94
Data Logger	In-Situ Inc. s/n: 2K-192	
Pressure Transducer	In-Situ Inc. s/n: 350976	Calibration due: 03-11-94
Mechanical Pump	Grundfos 1 1/2 HP	
Orifice plate & assembly	Badger meter inc. plate # 985706	

MEASUREMENT DATUM

Control Datum: Top of Casing (TOC) 8"

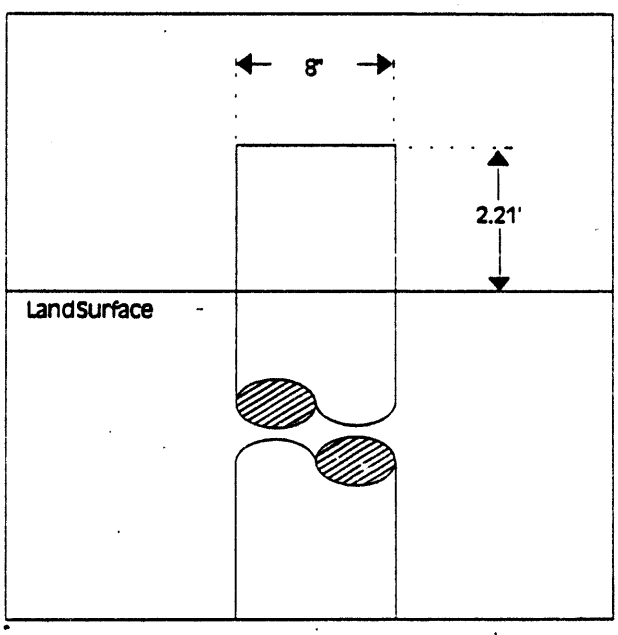
Elevation: N/A

Electric Sounder: TOC 8"

Steel Tape: TOC 8"

Pressure Transducer: TOC 8"

Well Head Diagram



COMMENTS

Step drawdown test performed on 09-27-94 to establish desired flowrate.

Recorded by: R. S. Edrington Date: 12-29-93

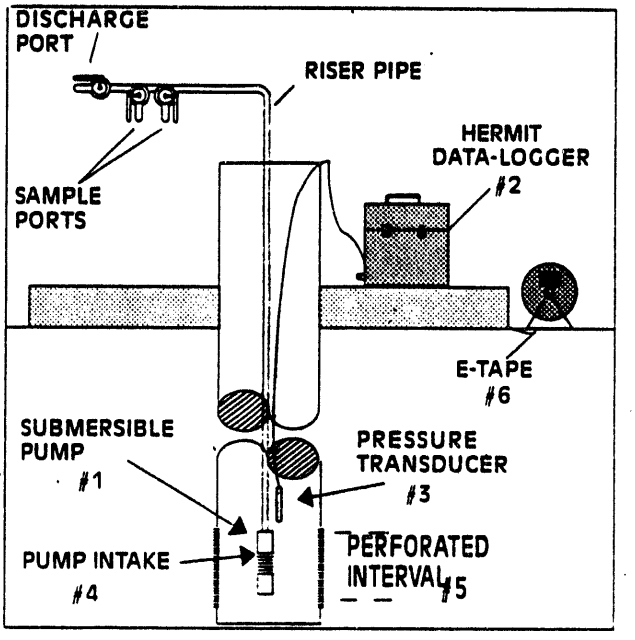
Sign and Print Name

EQUIPMENT CONFIGURATION AND WELL HEAD DIAGRAM

WELL DESIGNATION 299-W11-10 Well Depth 298.50' TOC 8"

Equipment Configuration Diagram

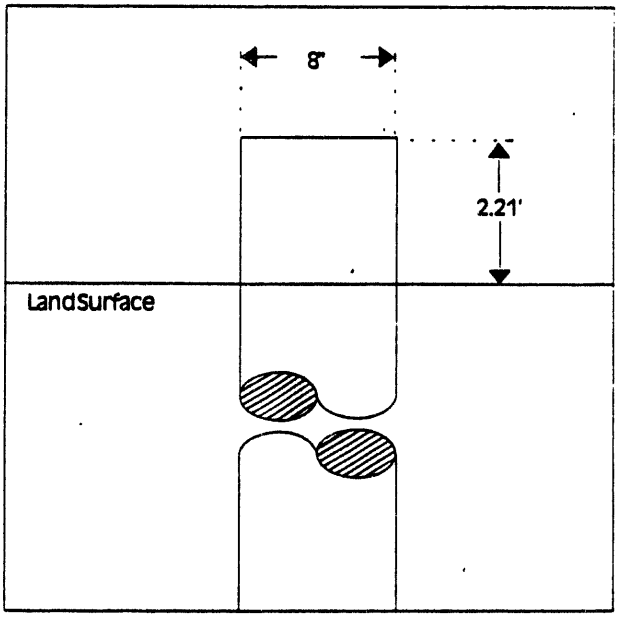
Item	Description
#1	1.5 HP Grundfos submersible
#2	Data Logger 2K-192
#3	In-Situ Inc s/n 350976 (cal. 3-11-94)
#4	288.06' TOC 8"
#5	258.21'-298.50' Btoc8"
#6	Solinst s/n: ET-4 (cal. 1-30-94)



Comments:

Step Drawdown test performed on 09-27-94

Well Head Diagram



Signature RSEdrington Date 11-09-93

A-6000-417 (08/89)

DRAWDOWN/RECOVERY

Page 1 of

Well Designation: 299-W11-10 Date: 09-28&29-93

Well Depth: 298.50 TOC 8" Perforated Interval: 258.21'-298.50' TOC 8"

Pumping Method: Constant Discharge/Mechanical

Equipment Used to Measure Water Level: E.Tape/Transducer S.N. ET-4/350976 Calibration Due: 1-30-94/03-11-94

Equipment Used to Measure Flow: Orifice plate/Rotometer* S.N.: 985706/N.A. Calibration Due: N.A.

Measuring Point: Top of Casing (8") Pump Start Time: 1115(9/28) Pump Stop Time: 0419(9/29)

Time		Water Level		Discharge
Date	Time	Reading Units:	Water Level Units:	Reading Units: 5 gpm
				*Checked by Bucket Method
	See Attached Data			
			See Attached Data	

Recorded by: R.S.Edrington Date: 12-28-93

Sign and Print Name

BD-6000-402(03/90)

299-W11-10
Pump Test Drawdown

Hermit 2K-192
Start time: 11:15 09/28/93

Time:min	D-T-W:Ft	d(WL):Ft	Up Stream	Down Stream	Difference	Barometric Pressure
0.0000	0.041	-0.041	-0.789	-0.748	0.041	29.542
0.0083	0.101	-0.101	2.835	6.404	3.569	29.546
0.0166	0.050	-0.050	34.272	29.481	-4.791	29.546
0.0250	0.142	-0.142	30.359	27.477	-2.882	29.546
0.0333	0.101	-0.101	35.673	32.364	-3.309	29.546
0.0416	0.114	-0.114	36.380	33.188	-3.192	29.546
0.0500	0.145	-0.145	32.947	30.463	-2.484	29.546
0.0583	0.148	-0.148	35.940	33.503	-2.437	29.546
0.0666	0.174	-0.174	37.046	34.183	-2.863	29.546
0.0750	0.152	-0.152	39.689	37.128	-2.561	29.546
0.0833	0.190	-0.190	40.568	38.363	-2.205	29.546
0.0916	0.221	-0.221	38.762	37.059	-1.703	29.546
0.1000	0.221	-0.221	42.319	41.761	-0.558	29.546
0.1083	0.202	-0.202	45.257	44.301	-0.956	29.551
0.1166	0.237	-0.237	47.145	46.188	-0.957	29.546
0.1250	0.278	-0.278	47.433	45.598	-1.835	29.546
0.1333	0.250	-0.250	46.390	45.337	-1.053	29.546
0.1416	0.266	-0.266	46.218	44.829	-1.389	29.546
0.1500	0.259	-0.259	44.749	43.168	-1.581	29.546
0.1583	0.275	-0.275	43.939	42.839	-1.100	29.546
0.1666	0.300	-0.300	45.799	44.733	-1.066	29.546
0.1750	0.291	-0.291	46.074	44.349	-1.725	29.546
0.1833	0.310	-0.310	43.149	41.884	-1.265	29.546
0.1916	0.304	-0.304	43.980	43.278	-0.702	29.546
0.2000	0.329	-0.329	46.067	44.472	-1.595	29.546
0.2083	0.354	-0.354	43.005	42.077	-0.928	29.546
0.2166	0.351	-0.351	45.360	44.129	-1.231	29.546
0.2250	0.357	-0.357	46.046	44.507	-1.539	29.546
0.2333	0.389	-0.389	43.218	41.672	-1.546	29.551
0.2416	0.402	-0.402	44.083	43.065	-1.018	29.546
0.2500	0.373	-0.373	46.328	44.980	-1.348	29.546
0.2583	0.380	-0.380	44.152	42.983	-1.169	29.546
0.2666	0.427	-0.427	46.239	44.905	-1.334	29.546

299-W11-10 Extended Pump Test

0.2750	0.433	-0.433	45.944	44.356	-1.588	29.546
0.2833	0.427	-0.427	42.833	41.280	-1.553	29.546
0.2916	0.449	-0.449	45.030	44.218	-0.812	29.546
0.3000	0.427	-0.427	44.014	42.578	-1.436	29.546
0.3083	0.484	-0.484	44.392	43.367	-1.025	29.546
0.3166	0.440	-0.440	44.680	43.580	-1.100	29.546
0.3250	0.471	-0.471	43.692	42.667	-1.025	29.546
0.3333	0.503	-0.503	45.058	44.376	-0.682	29.546
0.3500	0.468	-0.468	44.138	43.141	-0.997	29.546
0.3666	0.538	-0.538	43.891	43.010	-0.881	29.546
0.3833	0.557	-0.557	44.440	43.484	-0.956	29.546
0.4000	0.535	-0.535	48.010	46.545	-1.465	29.546
0.4166	0.547	-0.547	44.831	42.688	-2.143	29.546
0.4333	0.557	-0.557	44.687	43.257	-1.430	29.546
0.4500	0.601	-0.601	44.310	42.660	-1.650	29.546
0.4666	0.630	-0.630	45.580	43.614	-1.966	29.546
0.4833	0.636	-0.636	43.575	42.763	-0.812	29.546
0.5000	0.636	-0.636	44.412	42.839	-1.573	29.546
0.5166	0.671	-0.671	43.293	41.836	-1.457	29.546
0.5333	0.690	-0.690	43.396	42.605	-0.791	29.546
0.5500	0.706	-0.706	44.605	43.827	-0.778	29.546
0.5666	0.725	-0.725	46.877	46.408	-0.469	29.546
0.5833	0.744	-0.744	46.761	47.314	0.553	29.546
0.6000	0.747	-0.747	46.033	44.562	-1.471	29.546
0.6166	0.769	-0.769	44.866	43.388	-1.478	29.546
0.6333	0.766	-0.766	47.365	45.825	-1.540	29.551
0.6500	0.810	-0.810	47.179	46.030	-1.149	29.546
0.6666	0.817	-0.817	47.516	46.250	-1.266	29.546
0.6833	0.839	-0.839	44.941	45.378	0.437	29.546
0.7000	0.829	-0.829	43.747	42.646	-1.101	29.546
0.7166	0.839	-0.839	46.726	45.749	-0.977	29.546
0.7333	0.899	-0.899	46.053	44.527	-1.526	29.546
0.7500	0.883	-0.883	47.303	46.195	-1.108	29.546
0.7666	0.889	-0.889	45.435	44.301	-1.134	29.546
0.7833	0.880	-0.880	45.937	44.980	-0.957	29.546
0.8000	0.953	-0.953	45.696	44.047	-1.649	29.546
0.8166	0.965	-0.965	45.353	41.521	-3.832	29.546
0.8333	0.975	-0.975	45.037	42.509	-2.528	29.546
0.8500	0.969	-0.969	43.740	42.358	-1.382	29.546
0.8666	1.013	-1.013	43.355	43.003	-0.352	29.546
0.8833	1.029	-1.029	45.408	43.628	-1.780	29.546
0.9000	1.060	-1.060	44.838	44.163	-0.675	29.551

299-W11-1Q Extended Pump Test

0.9166	1.060	-1.060	42.751	40.910	-1.841	29.546
0.9333	1.086	-1.086	44.721	42.756	-1.965	29.546
0.9500	1.070	-1.070	44.090	43.628	-0.462	29.546
0.9666	1.089	-1.089	44.934	43.443	-1.491	29.546
0.9833	1.108	-1.108	44.584	43.182	-1.402	29.551
1.00	1.130	-1.130	44.447	43.189	-1.258	29.546
1.20	1.320	-1.320	45.367	43.299	-2.068	29.546
1.40	1.535	-1.535	43.273	41.521	-1.752	29.546
1.60	1.615	-1.615	42.772	41.342	-1.430	29.546
1.80	1.716	-1.716	44.138	42.880	-1.258	29.546
2.00	1.836	-1.836	43.595	42.372	-1.223	29.546
2.20	1.912	-1.912	44.797	43.463	-1.334	29.546
2.40	2.055	-2.055	45.216	43.703	-1.513	29.546
2.60	2.093	-2.093	44.845	43.395	-1.450	29.546
2.80	2.191	-2.191	42.724	40.512	-2.212	29.546
3.00	2.286	-2.286	43.781	42.187	-1.594	29.546
3.20	2.378	-2.378	45.024	42.873	-2.151	29.546
3.40	2.394	-2.394	44.351	42.454	-1.897	29.546
3.60	2.454	-2.454	44.996	43.511	-1.485	29.546
3.80	2.489	-2.489	44.962	43.504	-1.458	29.546
4.00	2.574	-2.574	43.520	42.365	-1.155	29.546
4.20	2.634	-2.634	42.373	41.569	-0.804	29.546
4.40	2.726	-2.726	45.339	43.491	-1.848	29.546
4.60	2.771	-2.771	44.399	43.614	-0.785	29.546
4.80	2.881	-2.881	45.181	43.353	-1.828	29.546
5.00	2.992	-2.992	44.165	41.939	-2.226	29.546
5.20	3.075	-3.075	42.902	41.226	-1.676	29.546
5.40	3.128	-3.128	43.019	41.761	-1.258	29.546
5.60	3.217	-3.217	43.836	41.431	-2.405	29.546
5.80	3.325	-3.325	43.595	42.077	-1.518	29.546
6.00	3.379	-3.379	43.980	42.276	-1.704	29.546
6.20	3.429	-3.429	42.847	41.802	-1.045	29.546
6.40	3.480	-3.480	45.051	43.703	-1.348	29.546
6.60	3.493	-3.493	43.136	41.905	-1.231	29.546
6.80	3.572	-3.572	44.419	42.907	-1.512	29.546
7.00	3.597	-3.597	42.216	41.493	-0.723	29.546
7.20	3.585	-3.585	43.053	42.200	-0.853	29.546
7.40	3.648	-3.648	42.785	41.459	-1.326	29.546
7.60	3.670	-3.670	44.323	42.660	-1.663	29.546
7.80	3.619	-3.619	43.753	42.887	-0.866	29.551
8.00	3.629	-3.629	44.673	43.820	-0.853	29.551
8.20	3.616	-3.616	44.042	42.845	-1.197	29.551

299-W11-10 Extended Pump Test

8.40	3.642	-3.642	46.046	44.761	-1.285	29.551
8.60	3.629	-3.629	41.062	39.544	-1.518	29.551
8.80	3.708	-3.708	40.870	38.960	-1.910	29.551
9.00	3.740	-3.740	46.513	45.138	-1.375	29.551
9.20	3.762	-3.762	43.898	42.440	-1.458	29.551
9.40	3.816	-3.816	44.104	43.127	-0.977	29.551
9.60	3.790	-3.790	42.051	41.246	-0.805	29.551
9.80	3.835	-3.835	42.909	40.896	-2.013	29.551
10.00	3.828	-3.828	43.314	41.651	-1.663	29.551
12.00	4.047	-4.047	41.543	39.475	-2.068	29.551
14.00	4.237	-4.237	42.579	41.081	-1.498	29.551
16.00	4.319	-4.319	41.934	40.628	-1.306	29.546
18.00	4.519	-4.519	40.568	38.514	-2.054	29.551
20.00	4.389	-4.389	43.458	42.159	-1.299	29.551
22.00	4.297	-4.297	43.184	42.200	-0.984	29.551
24.00	4.338	-4.338	41.495	40.168	-1.327	29.555
26.00	4.417	-4.417	41.055	40.196	-0.859	29.551
28.00	4.474	-4.474	41.405	40.017	-1.388	29.555
30.00	4.668	-4.668	40.705	38.871	-1.834	29.555
32.00	4.718	-4.718	38.996	37.203	-1.793	29.555
34.00	4.804	-4.804	39.696	37.800	-1.896	29.551
36.00	4.763	-4.763	41.330	39.990	-1.340	29.551
38.00	4.845	-4.845	39.449	38.645	-0.804	29.555
40.00	4.867	-4.867	40.355	39.221	-1.134	29.555
42.00	4.839	-4.839	40.355	39.681	-0.674	29.555
44.00	4.870	-4.870	40.767	38.782	-1.985	29.555
46.00	4.905	-4.905	38.213	37.739	-0.474	29.555
48.00	4.785	-4.785	39.600	39.860	0.260	29.555
50.00	4.620	-4.620	41.385	41.644	0.259	29.555
52.00	4.487	-4.487	43.705	42.598	-1.107	29.555
54.00	4.693	-4.693	38.941	37.835	-1.106	29.555
56.00	4.804	-4.804	42.078	40.278	-1.800	29.555
58.00	4.820	-4.820	40.218	39.269	-0.949	29.555
60.00	4.899	-4.899	39.943	38.651	-1.292	29.551
62.00	4.972	-4.972	40.836	39.516	-1.320	29.551
64.00	5.029	-5.029	40.472	38.988	-1.484	29.551
66.00	5.054	-5.054	39.511	38.185	-1.326	29.551
68.00	5.057	-5.057	38.604	37.594	-1.010	29.551
70.00	5.038	-5.038	39.854	38.775	-1.079	29.551
72.00	5.048	-5.048	40.328	38.892	-1.436	29.551
74.00	5.079	-5.079	39.696	38.336	-1.360	29.551
76.00	5.045	-5.045	40.417	39.674	-0.743	29.551

299-W11-10 Extended Pump Test

78.00	4.981	-4.981	39.112	37.388	-1.724	29.551
80.00	4.978	-4.978	39.476	38.240	-1.236	29.551
82.00	4.915	-4.915	41.460	39.757	-1.703	29.551
84.00	4.892	-4.892	40.911	39.043	-1.868	29.551
86.00	5.003	-5.003	38.700	37.224	-1.476	29.551
88.00	5.127	-5.127	40.321	38.473	-1.848	29.551
90.00	5.197	-5.197	39.332	36.949	-2.383	29.546
92.00	5.238	-5.238	39.346	37.670	-1.676	29.546
94.00	5.247	-5.247	40.252	37.286	-2.966	29.551
96.00	5.266	-5.266	39.311	38.150	-1.161	29.546
98.00	5.247	-5.247	39.366	39.221	-0.145	29.546
100.00	5.231	-5.231	39.792	38.823	-0.969	29.546
110.00	5.143	-5.143	40.430	39.008	-1.422	29.542
120.00	5.121	-5.121	41.742	39.846	-1.896	29.538
130.00	5.292	-5.292	40.787	39.798	-0.989	29.532
140.00	5.269	-5.269	39.744	38.459	-1.285	29.524
150.00	5.095	-5.095	40.870	39.949	-0.921	29.516
160.00	5.019	-5.019	42.044	40.924	-1.120	29.510
170.00	5.054	-5.054	41.275	40.120	-1.155	29.502
180.00	4.690	-4.690	42.923	41.974	-0.949	29.498
190.00	4.870	-4.870	42.779	41.260	-1.519	29.493
200.00	4.826	-4.826	45.236	44.459	-0.777	29.493
210.00	5.124	-5.124	41.762	40.587	-1.175	29.487
220.00	4.810	-4.810	46.239	44.513	-1.726	29.483
230.00	4.269	-4.269	41.824	41.864	0.040	29.475
240.00	4.037	-4.037	46.101	45.097	-1.004	29.479
250.00	4.430	-4.430	41.529	39.818	-1.711	29.475
260.00	4.538	-4.538	42.428	41.672	-0.756	29.475
270.00	3.879	-3.879	45.264	44.088	-1.176	29.471
280.00	4.585	-4.585	41.625	40.498	-1.127	29.461
290.00	4.364	-4.364	43.403	43.470	0.067	29.465
300.00	3.835	-3.835	46.019	45.282	-0.737	29.461
310.00	4.506	-4.506	38.700	36.661	-2.039	29.461
320.00	4.611	-4.611	38.879	37.416	-1.463	29.461
330.00	4.680	-4.680	40.348	39.228	-1.120	29.457
340.00	4.633	-4.633	41.227	40.079	-1.148	29.453
350.00	4.750	-4.750	39.263	37.979	-1.284	29.453
360.00	4.788	-4.788	40.636	39.846	-0.790	29.449
370.00	4.731	-4.731	40.801	40.217	-0.584	29.443
380.00	4.747	-4.747	38.927	38.130	-0.797	29.443
390.00	4.706	-4.706	39.483	39.036	-0.447	29.439
400.00	4.763	-4.763	42.325	41.109	-1.216	29.434

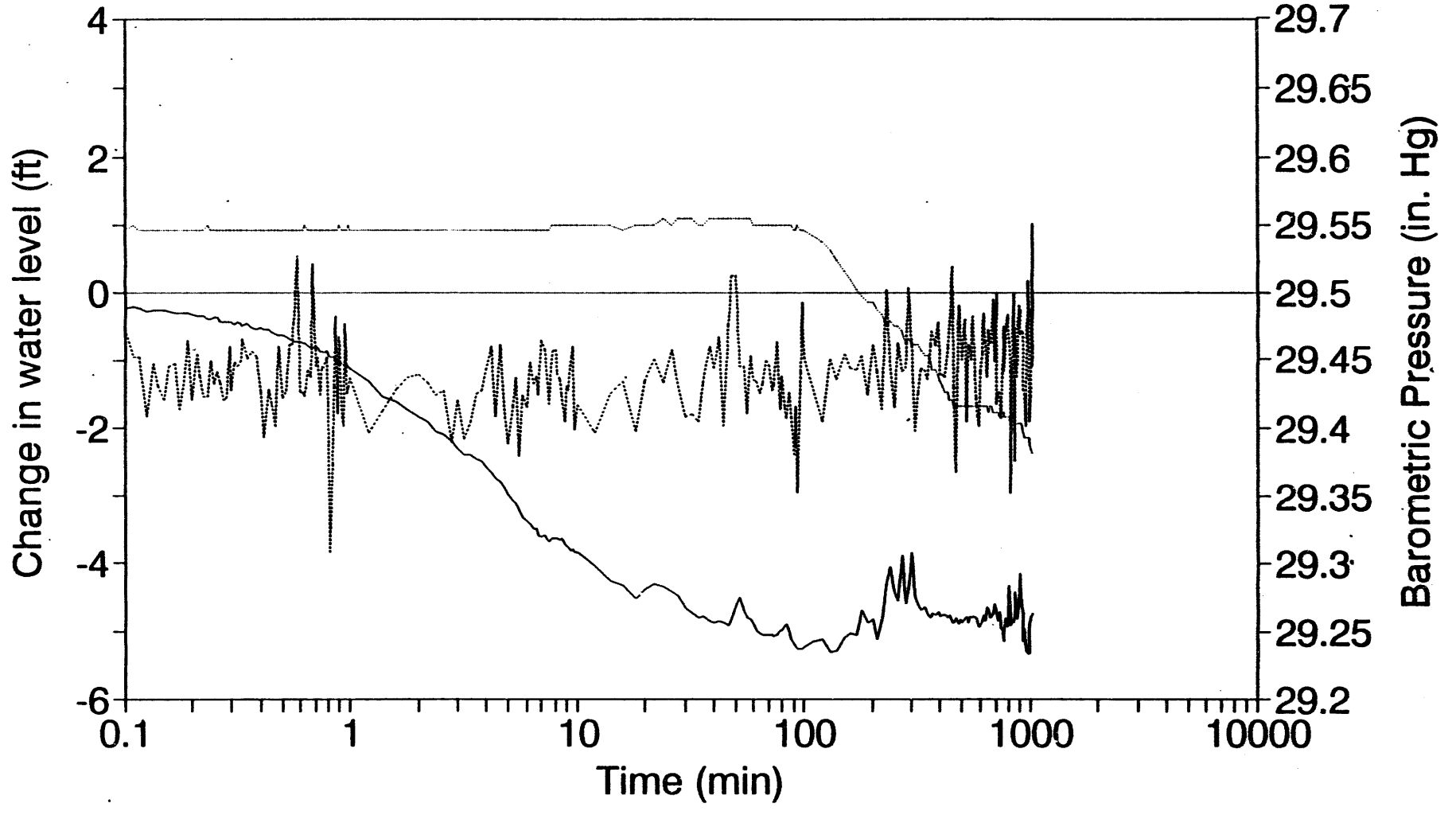
299-W11-10 Extended Pump Test

410.00	4.756	-4.756	37.581	36.359	-1.222	29.430
420.00	4.750	-4.750	39.716	38.446	-1.270	29.426
430.00	4.797	-4.797	39.998	39.201	-0.797	29.426
440.00	4.744	-4.744	39.366	38.734	-0.632	29.420
450.00	4.873	-4.873	39.524	39.914	0.390	29.420
460.00	4.861	-4.861	39.957	38.555	-1.402	29.416
470.00	4.794	-4.794	41.241	38.603	-2.638	29.416
480.00	4.886	-4.886	37.622	37.437	-0.185	29.416
490.00	4.829	-4.829	36.840	36.304	-0.536	29.416
500.00	4.864	-4.864	38.865	37.862	-1.003	29.416
510.00	4.807	-4.807	36.716	36.318	-0.398	29.416
520.00	4.782	-4.782	40.973	39.063	-1.910	29.416
530.00	4.864	-4.864	39.806	39.015	-0.791	29.416
540.00	4.778	-4.778	39.311	38.514	-0.797	29.416
550.00	4.788	-4.788	41.460	40.443	-1.017	29.416
560.00	4.772	-4.772	39.435	39.084	-0.351	29.416
570.00	4.797	-4.797	40.499	38.940	-1.559	29.416
580.00	4.861	-4.861	41.872	40.052	-1.820	29.416
590.00	4.940	-4.940	41.096	39.125	-1.971	29.416
600.00	4.899	-4.899	41.296	40.114	-1.182	29.416
610.00	4.835	-4.835	41.241	40.347	-0.894	29.416
620.00	4.750	-4.750	39.332	39.036	-0.296	29.416
630.00	4.845	-4.845	39.991	39.249	-0.742	29.416
640.00	4.639	-4.639	45.298	44.040	-1.258	29.416
650.00	4.690	-4.690	39.751	39.201	-0.550	29.412
660.00	4.804	-4.804	40.636	39.866	-0.770	29.416
670.00	4.766	-4.766	43.06	42.31	-0.750	29.416
680.00	4.731	-4.731	39.977	39.894	-0.083	29.412
690.00	4.585	-4.585	42.174	41.143	-1.031	29.412
700.00	4.737	-4.737	40.225	40.189	-0.036	29.412
710.00	4.759	-4.759	42.01	40.347	-1.663	29.412
720.00	4.832	-4.832	41.996	40.519	-1.477	29.412
730.00	4.712	-4.712	42.964	41.5	-1.464	29.408
740.00	4.946	-4.946	38.309	36.441	-1.868	29.412
750.00	4.946	-4.946	38.872	37.718	-1.154	29.412
760.00	5.149	-5.149	39.696	39.187	-0.509	29.412
770.00	5.003	-5.003	37.725	36.544	-1.181	29.408
780.00	4.801	-4.801	40.856	40.196	-0.660	29.408
790.00	4.934	-4.934	37.307	36.99	-0.317	29.408
800.00	4.303	-4.303	49.63	48.886	-0.744	29.408
810.00	4.775	-4.775	37.437	36.27	-1.167	29.404
820.00	4.921	-4.921	39.009	36.057	-2.952	29.408

299-W11-10 Extended Pump Test

830.00	4.832	-4.832	40.829	39.681	-1.148	29.408
840.00	4.867	-4.867	35.776	35.769	-0.007	29.412
850.00	4.709	-4.709	40.513	38.034	-2.479	29.404
860.00	4.395	-4.395	41.721	41.198	-0.523	29.404
870.00	4.810	-4.810	41.433	40.175	-1.258	29.404
880.00	4.639	-4.639	38.57	38.391	-0.179	29.404
890.00	4.303	-4.303	42.071	41.795	-0.276	29.404
900.00	4.132	-4.132	43.843	43.196	-0.647	29.404
910.00	4.598	-4.598	35.453	34.876	-0.577	29.404
920.00	4.721	-4.721	40.987	40.388	-0.599	29.398
930.00	5.140	-5.140	40.3	38.871	-1.429	29.398
940.00	4.962	-4.962	35.927	34.423	-1.504	29.394
950.00	5.250	-5.250	40.98	39.015	-1.965	29.394
960.00	5.269	-5.269	39.188	37.677	-1.511	29.394
970.00	5.317	-5.317	39.545	39.729	0.184	29.394
980.00	5.317	-5.317	41.769	40.127	-1.642	29.394
990.00	4.883	-4.883	42.229	40.319	-1.910	29.390
1000.00	4.782	-4.782	41.46	39.914	-1.546	29.386
1010.00	4.740	-4.740	37.89	38.912	1.022	29.382
1020.00	4.721	-4.721	39.586	38.494	-1.092	29.382

299-W11-10
Extended Pump Test



Delta Water Level — Barometric Pressure — Delta P at Orifice

299-W11-10 Pump Test Recovery

299-W11-10
Extended Pump Test

Hermit 2K-192
Start time: 11:15 09/28/93
Test# 1 **Recovery**
Pump Shut off: 04:18 9/29/93

Time:min	Time:hrs	D-T-W:Ft	d(WL):Ft
0.0000	0.0000	4.569	-4.569
0.0083	0.0001	4.490	-4.490
0.0166	0.0003	4.436	-4.436
0.0250	0.0004	4.554	-4.554
0.0333	0.0006	4.424	-4.424
0.0416	0.0007	4.408	-4.408
0.0500	0.0008	4.474	-4.474
0.0583	0.0010	4.427	-4.427
0.0666	0.0011	4.424	-4.424
0.0750	0.0013	4.414	-4.414
0.0833	0.0014	4.398	-4.398
0.0916	0.0015	4.389	-4.389
0.1000	0.0017	4.376	-4.376
0.1083	0.0018	4.364	-4.364
0.1166	0.0019	4.351	-4.351
0.1250	0.0021	4.341	-4.341
0.1333	0.0022	4.329	-4.329
0.1416	0.0024	4.316	-4.316
0.1500	0.0025	4.303	-4.303
0.1583	0.0026	4.291	-4.291
0.1666	0.0028	4.281	-4.281
0.1750	0.0029	4.269	-4.269
0.1833	0.0031	4.253	-4.253
0.1916	0.0032	4.240	-4.240
0.2000	0.0033	4.231	-4.231
0.2083	0.0035	4.218	-4.218
0.2166	0.0036	4.205	-4.205
0.2250	0.0038	4.196	-4.196
0.2333	0.0039	4.183	-4.183
0.2416	0.0040	4.174	-4.174
0.2500	0.0042	4.158	-4.158
0.2583	0.0043	4.148	-4.148

299-W11-10 Pump Test Recovery

0.2666	0.0044	4.139	-4.139
0.2750	0.0046	4.129	-4.129
0.2833	0.0047	4.117	-4.117
0.2916	0.0049	4.107	-4.107
0.3000	0.0050	4.101	-4.101
0.3083	0.0051	4.088	-4.088
0.3166	0.0053	4.079	-4.079
0.3250	0.0054	4.069	-4.069
0.3333	0.0056	4.056	-4.056
0.3500	0.0058	4.031	-4.031
0.3666	0.0061	4.012	-4.012
0.3833	0.0064	3.993	-3.993
0.4000	0.0067	3.965	-3.965
0.4166	0.0069	3.942	-3.942
0.4333	0.0072	3.914	-3.914
0.4500	0.0075	3.892	-3.892
0.4666	0.0078	3.873	-3.873
0.4833	0.0081	3.854	-3.854
0.5000	0.0083	3.832	-3.832
0.5166	0.0086	3.816	-3.816
0.5333	0.0089	3.794	-3.794
0.5500	0.0092	3.778	-3.778
0.5666	0.0094	3.756	-3.756
0.5833	0.0097	3.737	-3.737
0.6000	0.0100	3.721	-3.721
0.6166	0.0103	3.702	-3.702
0.6333	0.0106	3.683	-3.683
0.6500	0.0108	3.664	-3.664
0.6666	0.0111	3.648	-3.648
0.6833	0.0114	3.623	-3.623
0.7000	0.0117	3.607	-3.607
0.7166	0.0119	3.581	-3.581
0.7333	0.0122	3.562	-3.562
0.7500	0.0125	3.550	-3.550
0.7666	0.0128	3.534	-3.534
0.7833	0.0131	3.518	-3.518
0.8000	0.0133	3.502	-3.502
0.8166	0.0136	3.486	-3.486
0.8333	0.0139	3.471	-3.471
0.8500	0.0142	3.458	-3.458
0.8666	0.0144	3.442	-3.442
0.8833	0.0147	3.426	-3.426

299-W11-10 Pump Test Recovery

0.9000	0.0150	3.410	-3.410
0.9166	0.0153	3.395	-3.395
0.9333	0.0156	3.379	-3.379
0.9500	0.0158	3.363	-3.363
0.9666	0.0161	3.350	-3.350
0.9833	0.0164	3.334	-3.334
1.0	0.0167	3.322	-3.322
1.2	0.0200	3.125	-3.125
1.4	0.0233	2.942	-2.942
1.6	0.0267	2.786	-2.786
1.8	0.0300	2.685	-2.685
2.0	0.0333	2.612	-2.612
2.2	0.0367	2.539	-2.539
2.4	0.0400	2.479	-2.479
2.6	0.0433	2.429	-2.429
2.8	0.0467	2.384	-2.384
3.0	0.0500	2.340	-2.340
3.2	0.0533	2.289	-2.289
3.4	0.0567	2.242	-2.242
3.6	0.0600	2.201	-2.201
3.8	0.0633	2.153	-2.153
4.0	0.0667	2.109	-2.109
4.2	0.0700	2.061	-2.061
4.4	0.0733	2.014	-2.014
4.6	0.0767	1.969	-1.969
4.8	0.0800	1.931	-1.931
5.0	0.0833	1.887	-1.887
5.2	0.0867	1.846	-1.846
5.4	0.0900	1.811	-1.811
5.6	0.0933	1.773	-1.773
5.8	0.0967	1.735	-1.735
6.0	0.1000	1.700	-1.700
6.2	0.1033	1.665	-1.665
6.4	0.1067	1.634	-1.634
6.6	0.1100	1.599	-1.599
6.8	0.1133	1.561	-1.561
7.0	0.1167	1.523	-1.523
7.2	0.1200	1.488	-1.488
7.4	0.1233	1.450	-1.450
7.6	0.1267	1.418	-1.418
7.8	0.1300	1.387	-1.387
8.0	0.1333	1.358	-1.358

8.2	0.1367	1.330	-1.330
8.4	0.1400	1.304	-1.304
8.6	0.1433	1.279	-1.279
8.8	0.1467	1.254	-1.254
9.0	0.1500	1.231	-1.231
9.2	0.1533	1.212	-1.212
9.4	0.1567	1.190	-1.190
9.6	0.1600	1.168	-1.168
9.8	0.1633	1.149	-1.149
10.0	0.1667	1.130	-1.130
12.0	0.2000	0.953	-0.953
14.0	0.2333	0.839	-0.839
16.0	0.2667	0.747	-0.747
18.0	0.3000	0.690	-0.690
20.0	0.3333	0.633	-0.633
22.0	0.3667	0.585	-0.585
24.0	0.4000	0.541	-0.541
26.0	0.4333	0.506	-0.506
28.0	0.4667	0.475	-0.475
30.0	0.5000	0.443	-0.443
32.0	0.5333	0.421	-0.421
34.0	0.5667	0.399	-0.399
36.0	0.6000	0.370	-0.370
38.0	0.6333	0.354	-0.354
40.0	0.6667	0.335	-0.335
42.0	0.7000	0.319	-0.319
44.0	0.7333	0.300	-0.300
46.0	0.7667	0.285	-0.285
48.0	0.8000	0.272	-0.272
50.0	0.8333	0.259	-0.259
52.0	0.8667	0.240	-0.240
54.0	0.9000	0.234	-0.234
56.0	0.9333	0.224	-0.224
58.0	0.9667	0.215	-0.215
60.0	1.0000	0.202	-0.202
62.0	1.0333	0.196	-0.196
64.0	1.0667	0.190	-0.190
66.0	1.1000	0.177	-0.177
68.0	1.1333	0.167	-0.167
70.0	1.1667	0.161	-0.161
72.0	1.2000	0.152	-0.152
74.0	1.2333	0.148	-0.148

76.0	1.2667	0.139	-0.139
78.0	1.3000	0.129	-0.129
80.0	1.3333	0.126	-0.126
82.0	1.3667	0.123	-0.123
84.0	1.4000	0.117	-0.117
86.0	1.4333	0.110	-0.110
88.0	1.4667	0.104	-0.104
90.0	1.5000	0.101	-0.101
92.0	1.5333	0.095	-0.095
94.0	1.5667	0.088	-0.088
96.0	1.6000	0.085	-0.085
98.0	1.6333	0.082	-0.082
100.0	1.6667	0.079	-0.079
110.0	1.8333	0.060	-0.060
120.0	2.0000	0.038	-0.038
130.0	2.1667	0.025	-0.025
140.0	2.3333	0.012	-0.012
150.0	2.5000	0.000	0.000
160.0	2.6667	0.009	-0.009
170.0	2.8333	0.015	-0.015
180.0	3.0000	0.031	-0.031
190.0	3.1667	0.038	-0.038
200.0	3.3333	0.044	-0.044
210.0	3.5000	0.053	-0.053
220.0	3.6667	0.053	-0.053
230.0	3.8333	0.060	-0.060
240.0	4.0000	0.066	-0.066
250.0	4.1667	0.069	-0.069
260.0	4.3333	0.076	-0.076
270.0	4.5000	0.085	-0.085
280.0	4.6667	0.088	-0.088
290.0	4.8333	0.091	-0.091
300.0	5.0000	0.101	-0.101
310.0	5.1667	0.104	-0.104
320.0	5.3333	0.110	-0.110
330.0	5.5000	0.114	-0.114
340.0	5.6667	0.120	-0.120
350.0	5.8333	0.126	-0.126
360.0	6.0000	0.133	-0.133
370.0	6.1667	0.142	-0.142
380.0	6.3333	0.142	-0.142
390.0	6.5000	0.152	-0.152

299-W11-10 Pump Test Recovery

400.0	6.6667	0.161	-0.161
410.0	6.8333	0.171	-0.171
420.0	7.0000	0.177	-0.177
430.0	7.1667	0.186	-0.186
440.0	7.3333	0.199	-0.199
450.0	7.5000	0.202	-0.202
460.0	7.6667	0.202	-0.202
470.0	7.8333	0.215	-0.215
480.0	8.0000	0.218	-0.218
490.0	8.1667	0.221	-0.221
500.0	8.3333	0.351	-0.351
510.0	8.5000	0.342	-0.342
520.0	8.6667	0.297	-0.297
530.0	8.8333	0.291	-0.291
540.0	9.0000	0.294	-0.294
550.0	9.1667	0.281	-0.281
560.0	9.3333	0.291	-0.291
570.0	9.5000	0.297	-0.297
580.0	9.6667	0.307	-0.307
590.0	9.8333	0.313	-0.313
600.0	10.0000	0.319	-0.319
610.0	10.1667	0.329	-0.329
620.0	10.3333	0.335	-0.335
630.0	10.5000	0.338	-0.338
640.0	10.6667	0.348	-0.348
650.0	10.8333	0.357	-0.357
660.0	11.0000	0.361	-0.361
670.0	11.1667	0.370	-0.370
680.0	11.3333	0.376	-0.376
690.0	11.5000	0.386	-0.386
700.0	11.6667	0.392	-0.392
710.0	11.8333	0.395	-0.395
720.0	12.0000	0.408	-0.408
730.0	12.1667	0.411	-0.411
740.0	12.3333	0.414	-0.414
750.0	12.5000	0.418	-0.418
760.0	12.6667	0.421	-0.421
770.0	12.8333	0.424	-0.424
780.0	13.0000	0.430	-0.430
790.0	13.1667	0.430	-0.430
800.0	13.3333	0.433	-0.433
810.0	13.5000	0.440	-0.440

299-W11-10 Pump Test Recovery

820.0	13.6667	0.446	-0.446
830.0	13.8333	0.509	-0.509
840.0	14.0000	0.522	-0.522
850.0	14.1667	0.506	-0.506
860.0	14.3333	0.506	-0.506
870.0	14.5000	0.497	-0.497
880.0	14.6667	0.487	-0.487
890.0	14.8333	0.468	-0.468
900.0	15.0000	0.452	-0.452
910.0	15.1667	0.437	-0.437
920.0	15.3333	0.427	-0.427
930.0	15.5000	0.430	-0.430
940.0	15.6667	0.494	-0.494
950.0	15.8333	0.478	-0.478
960.0	16.0000	0.465	-0.465
970.0	16.1667	0.456	-0.456
980.0	16.3333	0.446	-0.446
990.0	16.5000	0.437	-0.437
1000.0	16.6667	0.427	-0.427
1010.0	16.8333	0.424	-0.424
1020.0	17.0000	0.424	-0.424
1030.0	17.1667	0.427	-0.427
1040.0	17.3333	0.459	-0.459
1050.0	17.5000	0.478	-0.478
1060.0	17.6667	0.465	-0.465
1070.0	17.8333	0.452	-0.452
1080.0	18.0000	0.433	-0.433
1090.0	18.1667	0.427	-0.427
1100.0	18.3333	0.418	-0.418
1110.0	18.5000	0.414	-0.414
1120.0	18.6667	0.411	-0.411
1130.0	18.8333	0.411	-0.411
1140.0	19.0000	0.411	-0.411
1150.0	19.1667	0.456	-0.456
1160.0	19.3333	0.459	-0.459
1170.0	19.5000	0.443	-0.443
1180.0	19.6667	0.427	-0.427
1190.0	19.8333	0.418	-0.418
1200.0	20.0000	0.402	-0.402
1210.0	20.1667	0.408	-0.408
1220.0	20.3333	0.414	-0.414
1230.0	20.5000	0.408	-0.408

299-W11-10 Pump Test Recovery

1240.0	20.6667	0.395	-0.395
1250.0	20.8333	0.430	-0.430
1260.0	21.0000	0.424	-0.424
1270.0	21.1667	0.411	-0.411
1280.0	21.3333	0.399	-0.399
1290.0	21.5000	0.395	-0.395
1300.0	21.6667	0.392	-0.392
1310.0	21.8333	0.392	-0.392
1320.0	22.0000	0.389	-0.389
1330.0	22.1667	0.386	-0.386
1340.0	22.3333	0.386	-0.386
1350.0	22.5000	0.383	-0.383
1360.0	22.6667	0.402	-0.402
1370.0	22.8333	0.395	-0.395
1380.0	23.0000	0.389	-0.389
1390.0	23.1667	0.373	-0.373
1400.0	23.3333	0.367	-0.367
1410.0	23.5000	0.367	-0.367
1420.0	23.6667	0.364	-0.364
1430.0	23.8333	0.364	-0.364
1440.0	24.0000	0.370	-0.370
1450.0	24.1667	0.370	-0.370
1460.0	24.3333	0.367	-0.367
1470.0	24.5000	0.361	-0.361
1480.0	24.6667	0.364	-0.364
1490.0	24.8333	0.367	-0.367
1500.0	25.0000	0.357	-0.357
1510.0	25.1667	0.361	-0.361
1520.0	25.3333	0.354	-0.354
1530.0	25.5000	0.348	-0.348
1540.0	25.6667	0.338	-0.338
1550.0	25.8333	0.345	-0.345
1560.0	26.0000	0.342	-0.342
1570.0	26.1667	0.329	-0.329
1580.0	26.3333	0.329	-0.329
1590.0	26.5000	0.326	-0.326
1600.0	26.6667	0.313	-0.313
1610.0	26.8333	0.313	-0.313
1620.0	27.0000	0.304	-0.304
1630.0	27.1667	0.294	-0.294
1640.0	27.3333	0.291	-0.291
1650.0	27.5000	0.288	-0.288

299-W11-10 Pump Test Recovery

1660.0	27.6667	0.281	-0.281
1670.0	27.8333	0.275	-0.275
1680.0	28.0000	0.272	-0.272
1690.0	28.1667	0.269	-0.269
1700.0	28.3333	0.262	-0.262
1710.0	28.5000	0.259	-0.259
1720.0	28.6667	0.256	-0.256
1730.0	28.8333	0.250	-0.250
1740.0	29.0000	0.237	-0.237
1750.0	29.1667	0.234	-0.234
1760.0	29.3333	0.224	-0.224
1770.0	29.5000	0.221	-0.221
1780.0	29.6667	0.212	-0.212
1790.0	29.8333	0.212	-0.212
1800.0	30.0000	0.212	-0.212
1810.0	30.1667	0.205	-0.205
1820.0	30.3333	0.209	-0.209
1830.0	30.5000	0.202	-0.202
1840.0	30.6667	0.202	-0.202
1850.0	30.8333	0.196	-0.196
1860.0	31.0000	0.190	-0.190
1870.0	31.1667	0.190	-0.190
1880.0	31.3333	0.186	-0.186
1890.0	31.5000	0.186	-0.186
1900.0	31.6667	0.180	-0.180
1910.0	31.8333	0.180	-0.180
1920.0	32.0000	0.186	-0.186
1930.0	32.1667	0.180	-0.180
1940.0	32.3333	0.190	-0.190
1950.0	32.5000	0.193	-0.193
1960.0	32.6667	0.193	-0.193
1970.0	32.8333	0.193	-0.193
1980.0	33.0000	0.196	-0.196
1990.0	33.1667	0.202	-0.202
2000.0	33.3333	0.202	-0.202
2010.0	33.5000	0.212	-0.212
2020.0	33.6667	0.215	-0.215
2030.0	33.8333	0.221	-0.221
2040.0	34.0000	0.231	-0.231
2050.0	34.1667	0.231	-0.231
2060.0	34.3333	0.237	-0.237
2070.0	34.5000	0.234	-0.234

299-W11-10 Pump Test Recovery

2080.0	34.6667	0.237	-0.237
2090.0	34.8333	0.243	-0.243
2100.0	35.0000	0.253	-0.253
2110.0	35.1667	0.272	-0.272
2120.0	35.3333	0.288	-0.288
2130.0	35.5000	0.307	-0.307
2140.0	35.6667	0.345	-0.345
2150.0	35.8333	0.361	-0.361
2160.0	36.0000	0.462	-0.462
2170.0	36.1667	1.200	-1.200
2180.0	36.3333	1.330	-1.330
2190.0	36.5000	1.349	-1.349
2200.0	36.6667	1.352	-1.352
2210.0	36.8333	1.358	-1.358
2220.0	37.0000	1.358	-1.358
2230.0	37.1667	1.358	-1.358
2240.0	37.3333	1.361	-1.361
2250.0	37.5000	1.361	-1.361
2260.0	37.6667	1.361	-1.361
2270.0	37.8333	1.358	-1.358
2280.0	38.0000	1.358	-1.358
2290.0	38.1667	1.361	-1.361
2300.0	38.3333	1.361	-1.361
2310.0	38.5000	1.355	-1.355
2320.0	38.6667	1.355	-1.355
2330.0	38.8333	1.355	-1.355
2340.0	39.0000	1.352	-1.352
2350.0	39.1667	1.352	-1.352
2360.0	39.3333	1.345	-1.345
2370.0	39.5000	1.336	-1.336
2380.0	39.6667	1.342	-1.342
2390.0	39.8333	1.333	-1.333
2400.0	40.0000	1.333	-1.333
2410.0	40.1667	1.330	-1.330
2420.0	40.3333	1.326	-1.326
2430.0	40.5000	1.323	-1.323
2440.0	40.6667	1.317	-1.317
2450.0	40.8333	1.317	-1.317
2460.0	41.0000	1.311	-1.311
2470.0	41.1667	1.311	-1.311
2480.0	41.3333	1.311	-1.311
2490.0	41.5000	1.311	-1.311

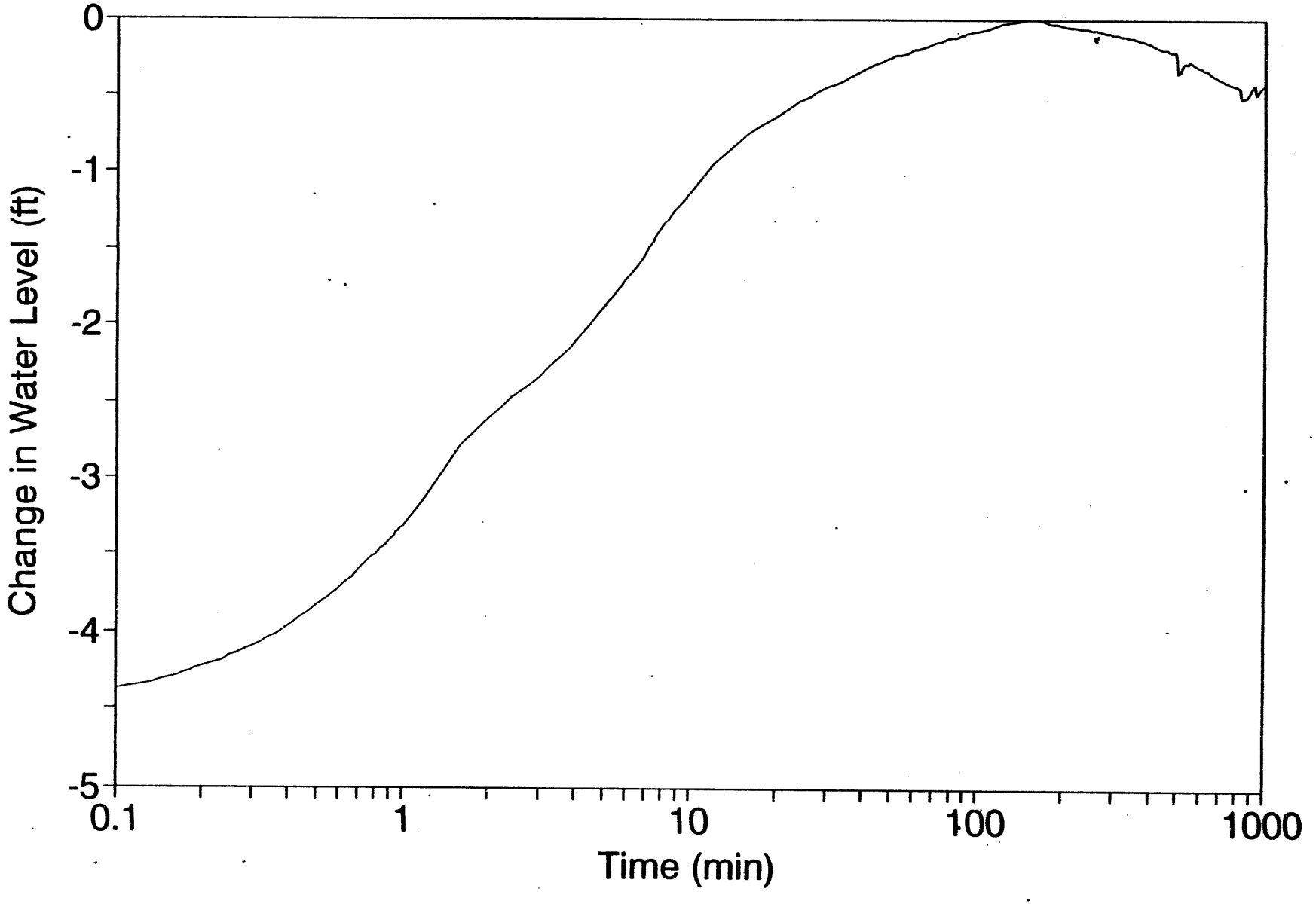
299-W11-10 Pump Test Recovery

2500.0	41.6667	1.311	-1.311
2510.0	41.8333	1.311	-1.311
2520.0	42.0000	1.317	-1.317
2530.0	42.1667	1.317	-1.317
2540.0	42.3333	1.320	-1.320
2550.0	42.5000	1.323	-1.323
2560.0	42.6667	1.314	-1.314
2570.0	42.8333	1.307	-1.307
2580.0	43.0000	1.301	-1.301
2590.0	43.1667	1.295	-1.295
2600.0	43.3333	1.292	-1.292
2610.0	43.5000	1.288	-1.288
2620.0	43.6667	1.282	-1.282
2630.0	43.8333	1.273	-1.273
2640.0	44.0000	1.273	-1.273
2650.0	44.1667	1.269	-1.269
2660.0	44.3333	1.266	-1.266
2670.0	44.5000	1.266	-1.266
2680.0	44.6667	1.260	-1.260
2690.0	44.8333	1.260	-1.260
2700.0	45.0000	1.266	-1.266
2710.0	45.1667	1.263	-1.263
2720.0	45.3333	1.260	-1.260
2730.0	45.5000	1.257	-1.257
2740.0	45.6667	1.257	-1.257
2750.0	45.8333	1.254	-1.254
2760.0	46.0000	1.260	-1.260
2770.0	46.1667	1.257	-1.257
2780.0	46.3333	1.257	-1.257
2790.0	46.5000	1.254	-1.254
2800.0	46.6667	1.257	-1.257
2810.0	46.8333	1.257	-1.257
2820.0	47.0000	1.257	-1.257
2830.0	47.1667	1.263	-1.263
2840.0	47.3333	1.260	-1.260
2850.0	47.5000	1.263	-1.263
2860.0	47.6667	1.260	-1.260
2870.0	47.8333	1.254	-1.254
2880.0	48.0000	1.254	-1.254
2890.0	48.1667	1.254	-1.254
2900.0	48.3333	1.250	-1.250
2910.0	48.5000	1.250	-1.250

299-W11-10 Pump Test Recovery

2920.0	48.6667	1.250	-1.250
2930.0	48.8333	1.250	-1.250
2940.0	49.0000	1.250	-1.250
2950.0	49.1667	1.250	-1.250
2960.0	49.3333	1.247	-1.247
2970.0	49.5000	1.247	-1.247
2980.0	49.6667	1.247	-1.247
2990.0	49.8333	1.244	-1.244
3000.0	50.0000	1.244	-1.244
3010.0	50.1667	1.241	-1.241
3020.0	50.3333	1.231	-1.231
3030.0	50.5000	1.228	-1.228
3040.0	50.6667	1.231	-1.231
3050.0	50.8333	1.231	-1.231
3060.0	51.0000	1.238	-1.238
3070.0	51.1667	1.231	-1.231
3080.0	51.3333	1.225	-1.225
3090.0	51.5000	1.225	-1.225
3100.0	51.6667	1.216	-1.216
3110.0	51.8333	1.209	-1.209
3120.0	52.0000	1.206	-1.206
3130.0	52.1667	1.200	-1.200
3140.0	52.3333	1.200	-1.200
3150.0	52.5000	1.200	-1.200
3160.0	52.6667	1.203	-1.203
3170.0	52.8333	1.197	-1.197
3180.0	53.0000	1.193	-1.193
3190.0	53.1667	1.197	-1.197
3200.0	53.3333	1.190	-1.190
3210.0	53.5000	1.190	-1.190
3220.0	53.6667	1.193	-1.193
3230.0	53.8333	1.190	-1.190
3240.0	54.0000	1.187	-1.187
3250.0	54.1667	1.187	-1.187
3260.0	54.3333	1.184	-1.184
3270.0	54.5000	1.181	-1.181

299-W11-10 Recovery
29-Sept-93



299-W11-10 Step Drawdown Test

Hermit Unit# 192
Flow Rate: Test 1 = 2 gpm, Test 2 = 6.75 gpm
Start Time: Test 1 17:35 Test 2 18:35 09/27/93
SWL: 275.340'

Time:min	Test 1 d(WL):Ft	Test 2 d(WL):Ft
0.0000	0.000	0.000
0.0083	-0.041	-0.013
0.0166	-0.053	-0.010
0.0250	-0.012	-0.013
0.0333	-0.066	0.000
0.0416	-0.041	-0.003
0.0500	-0.050	-0.054
0.0583	-0.019	-0.022
0.0666	-0.041	-0.064
0.0750	-0.063	-0.092
0.0833	-0.072	-0.098
0.0916	-0.028	-0.105
0.1000	-0.053	-0.117
0.1083	-0.031	-0.073
0.1166	-0.053	-0.079
0.1250	-0.072	-0.117
0.1333	-0.101	-0.155
0.1416	-0.107	-0.146
0.1500	-0.101	-0.168
0.1583	-0.088	-0.178
0.1666	-0.069	-0.140
0.1750	-0.060	-0.168
0.1833	-0.120	-0.197
0.1916	-0.110	-0.181
0.2000	-0.101	-0.165
0.2083	-0.079	-0.174
0.2166	-0.069	-0.206
0.2250	-0.098	-0.241
0.2333	-0.133	-0.216
0.2416	-0.136	-0.225
0.2500	-0.101	-0.279

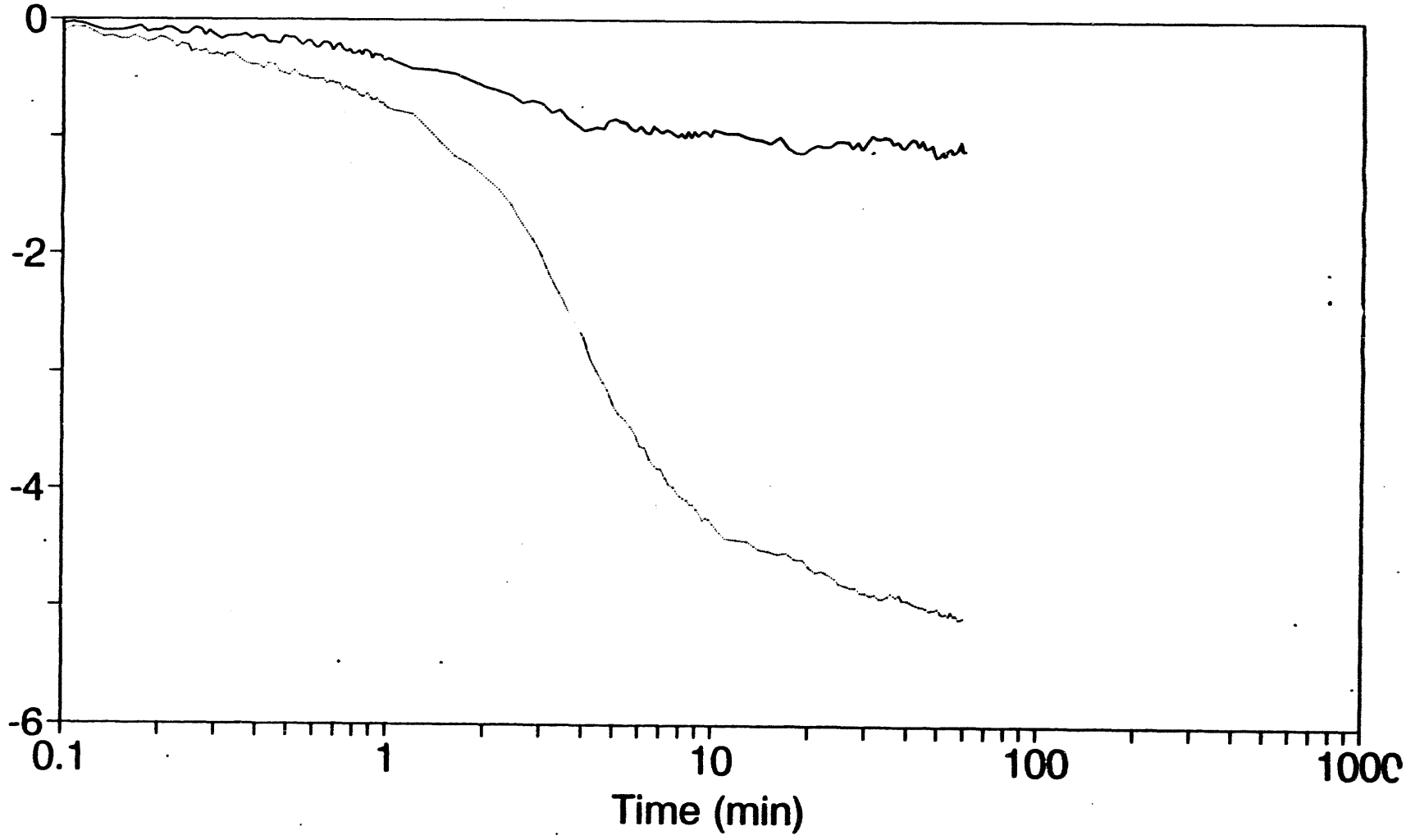
0.2583	-0.082	-0.266
0.2666	-0.095	-0.276
0.2750	-0.139	-0.269
0.2833	-0.098	-0.304
0.2916	-0.133	-0.304
0.3000	-0.148	-0.301
0.3083	-0.171	-0.307
0.3166	-0.158	-0.317
0.3250	-0.139	-0.295
0.3333	-0.145	-0.295
0.3500	-0.139	-0.342
0.3666	-0.129	-0.380
0.3833	-0.174	-0.393
0.4000	-0.148	-0.396
0.4166	-0.148	-0.422
0.4333	-0.193	-0.377
0.4500	-0.205	-0.396
0.4666	-0.212	-0.447
0.4833	-0.148	-0.460
0.5000	-0.161	-0.475
0.5166	-0.161	-0.437
0.5333	-0.193	-0.469
0.5500	-0.221	-0.482
0.5666	-0.186	-0.494
0.5833	-0.180	-0.504
0.6000	-0.247	-0.501
0.6166	-0.247	-0.501
0.6333	-0.196	-0.507
0.6500	-0.202	-0.545
0.6666	-0.212	-0.526
0.6833	-0.269	-0.536
0.7000	-0.228	-0.548
0.7166	-0.212	-0.548
0.7333	-0.259	-0.602
0.7500	-0.278	-0.570
0.7666	-0.253	-0.586
0.7833	-0.300	-0.593
0.8000	-0.294	-0.605
0.8166	-0.269	-0.634
0.8333	-0.310	-0.656
0.8500	-0.272	-0.659
0.8666	-0.269	-0.631

0.8833	-0.297	-0.669
0.9000	-0.335	-0.684
0.9166	-0.294	-0.681
0.9333	-0.310	-0.665
0.9500	-0.304	-0.707
0.9666	-0.332	-0.713
0.9833	-0.345	-0.741
1.0000	-0.338	-0.764
1.2000	-0.421	-0.805
1.4000	-0.437	-0.992
1.6000	-0.462	-1.163
1.8000	-0.519	-1.248
2.0000	-0.576	-1.349
2.2000	-0.595	-1.454
2.4000	-0.639	-1.571
2.6000	-0.703	-1.739
2.8000	-0.687	-1.862
3.0000	-0.709	-2.018
3.2000	-0.785	-2.189
3.4000	-0.766	-2.331
3.6000	-0.845	-2.464
3.8000	-0.883	-2.597
4.0000	-0.943	-2.711
4.2000	-0.931	-2.895
4.4000	-0.918	-2.996
4.6000	-0.934	-3.094
4.8000	-0.864	-3.155
5.0000	-0.848	-3.291
5.2000	-0.858	-3.351
5.4000	-0.880	-3.408
5.6000	-0.927	-3.465
5.8000	-0.946	-3.531
6.0000	-0.896	-3.630
6.2000	-0.950	-3.636
6.4000	-0.950	-3.734
6.6000	-0.899	-3.782
6.8000	-0.946	-3.820
7.0000	-0.959	-3.823
7.2000	-0.934	-3.908
7.4000	-0.937	-3.953
7.6000	-0.975	-3.975
7.8000	-0.984	-4.032

8.0000	-0.956	-4.054
8.2000	-0.991	-4.064
8.4000	-0.946	-4.076
8.6000	-0.997	-4.121
8.8000	-0.946	-4.117
9.0000	-0.984	-4.159
9.2000	-0.950	-4.209
9.4000	-0.940	-4.260
9.6000	-0.959	-4.228
9.8000	-0.984	-4.247
10.0000	-0.924	-4.288
11.0000	-0.953	-4.406
12.0000	-0.950	-4.421
13.0000	-0.994	-4.437
14.0000	-1.007	-4.507
15.0000	-1.045	-4.523
16.0000	-0.984	-4.542
17.0000	-1.083	-4.532
18.0000	-1.121	-4.592
19.0000	-1.121	-4.586
20.0000	-1.076	-4.662
21.0000	-1.051	-4.703
22.0000	-1.060	-4.687
23.0000	-1.060	-4.713
24.0000	-1.022	-4.751
25.0000	-1.032	-4.795
26.0000	-1.026	-4.814
27.0000	-1.079	-4.824
28.0000	-1.022	-4.830
29.0000	-1.092	-4.862
30.0000	-1.022	-4.858
31.0000	-0.975	-4.893
32.0000	-0.991	-4.881
33.0000	-0.994	-4.925
34.0000	-0.988	-4.915
35.0000	-0.997	-4.887
36.0000	-1.035	-4.858
37.0000	-1.022	-4.912
38.0000	-1.064	-4.877
39.0000	-1.076	-4.938
40.0000	-1.022	-4.934
41.0000	-1.000	-4.947

42.0000	-1.010	-4.963
43.0000	-1.064	-4.979
44.0000	-1.010	-4.991
45.0000	-1.083	-4.995
46.0000	-1.079	-5.007
47.0000	-1.054	-5.026
48.0000	-1.089	-5.020
49.0000	-1.168	-5.014
50.0000	-1.152	-5.004
51.0000	-1.102	-5.039
52.0000	-1.143	-5.052
53.0000	-1.089	-5.042
54.0000	-1.076	-5.074
55.0000	-1.117	-5.033
56.0000	-1.108	-5.077
57.0000	-1.089	-5.055
58.0000	-1.026	-5.105
59.0000	-1.105	-5.102
60.0000	-1.111	-5.083

299-W11-10 Step Drawdown Test
27-Sept-93



Test 1 (2 gpm) Test 2 (6.75 gpm)

299-W11-10 Step Drawdown Recovery

Hermit Unit# 192
Test: Step Drawdown
Start Time: 19:37 09/27/93
SWL: 275.340'

Time:min	Time:hrs	D-T-W:Ft	d(WL):Ft
0.0000	0.00000	273.417	-273.417
0.0083	0.00014	273.411	-273.411
0.0166	0.00028	273.373	-273.373
0.0250	0.00042	273.379	-273.379
0.0333	0.00056	273.357	-273.357
0.0416	0.00069	273.354	-273.354
0.0500	0.00083	273.347	-273.347
0.0583	0.00097	273.328	-273.328
0.0666	0.00111	273.319	-273.319
0.0750	0.00125	273.306	-273.306
0.0833	0.00139	273.297	-273.297
0.0916	0.00153	273.284	-273.284
0.1000	0.00167	273.271	-273.271
0.1083	0.00181	273.262	-273.262
0.1166	0.00194	273.249	-273.249
0.1250	0.00208	273.237	-273.237
0.1333	0.00222	273.224	-273.224
0.1416	0.00236	273.214	-273.214
0.1500	0.00250	273.202	-273.202
0.1583	0.00264	273.189	-273.189
0.1666	0.00278	273.176	-273.176
0.1750	0.00292	273.170	-273.170
0.1833	0.00306	273.157	-273.157
0.1916	0.00319	273.145	-273.145
0.2000	0.00333	273.135	-273.135
0.2083	0.00347	273.123	-273.123
0.2166	0.00361	273.110	-273.110
0.2250	0.00375	273.100	-273.100
0.2333	0.00389	273.088	-273.088
0.2416	0.00403	273.078	-273.078
0.2500	0.00417	273.066	-273.066
0.2583	0.00431	273.056	-273.056
0.2666	0.00444	273.043	-273.043
0.2750	0.00458	273.034	-273.034

0.2833	0.00472	273.024	-273.024
0.2916	0.00486	273.015	-273.015
0.3000	0.00500	273.002	-273.002
0.3083	0.00514	272.993	-272.993
0.3166	0.00528	272.983	-272.983
0.3250	0.00542	272.974	-272.974
0.3333	0.00556	272.964	-272.964
0.3500	0.00583	272.945	-272.945
0.3666	0.00611	272.926	-272.926
0.3833	0.00639	272.907	-272.907
0.4000	0.00667	272.891	-272.891
0.4166	0.00694	272.872	-272.872
0.4333	0.00722	272.857	-272.857
0.4500	0.00750	272.841	-272.841
0.4666	0.00778	272.825	-272.825
0.4833	0.00806	272.809	-272.809
0.5000	0.00833	272.793	-272.793
0.5166	0.00861	272.765	-272.765
0.5333	0.00889	272.736	-272.736
0.5500	0.00917	272.692	-272.692
0.5666	0.00944	272.663	-272.663
0.5833	0.00972	272.632	-272.632
0.6000	0.01000	272.597	-272.597
0.6166	0.01028	272.562	-272.562
0.6333	0.01056	272.534	-272.534
0.6500	0.01083	272.499	-272.499
0.6666	0.01111	272.467	-272.467
0.6833	0.01139	272.435	-272.435
0.7000	0.01167	272.401	-272.401
0.7166	0.01194	272.369	-272.369
0.7333	0.01222	272.337	-272.337
0.7500	0.01250	272.302	-272.302
0.7666	0.01278	272.274	-272.274
0.7833	0.01306	272.245	-272.245
0.8000	0.01333	272.217	-272.217
0.8166	0.01361	272.185	-272.185
0.8333	0.01389	272.157	-272.157
0.8500	0.01417	272.128	-272.128
0.8666	0.01444	272.097	-272.097
0.8833	0.01472	272.068	-272.068
0.9000	0.01500	272.040	-272.040
0.9166	0.01528	272.011	-272.011

0.9333	0.01556	271.982	-271.982
0.9500	0.01583	271.957	-271.957
0.9666	0.01611	271.929	-271.929
0.9833	0.01639	271.900	-271.900
1.0	0.01667	271.872	-271.872
1.2	0.02000	271.501	-271.501
1.4	0.02333	271.178	-271.178
1.6	0.02667	270.899	-270.899
1.8	0.03000	270.646	-270.646
2.0	0.03333	270.418	-270.418
2.2	0.03667	270.209	-270.209
2.4	0.04000	270.028	-270.028
2.6	0.04333	269.857	-269.857
2.8	0.04667	269.696	-269.696
3.0	0.05000	269.585	-269.585
3.2	0.05333	269.493	-269.493
3.4	0.05667	269.420	-269.420
3.6	0.06000	269.382	-269.382
3.8	0.06333	269.357	-269.357
4.0	0.06667	269.310	-269.310
4.2	0.07000	269.256	-269.256
4.4	0.07333	269.205	-269.205
4.6	0.07667	269.154	-269.154
4.8	0.08000	269.104	-269.104
5.0	0.08333	269.047	-269.047
5.2	0.08667	268.990	-268.990
5.4	0.09000	268.933	-268.933
5.6	0.09333	268.876	-268.876
5.8	0.09667	268.825	-268.825
6.0	0.10000	268.778	-268.778
6.2	0.10333	268.730	-268.730
6.4	0.10667	268.686	-268.686
6.6	0.11000	268.641	-268.641
6.8	0.11333	268.600	-268.600
7.0	0.11667	268.562	-268.562
7.2	0.12000	268.521	-268.521
7.4	0.12333	268.483	-268.483
7.6	0.12667	268.445	-268.445
7.8	0.13000	268.410	-268.410
8.0	0.13333	268.372	-268.372
8.2	0.13667	268.337	-268.337
8.4	0.14000	268.302	-268.302

8.6	0.14333	268.271	-268.271
8.8	0.14667	268.239	-268.239
9.0	0.15000	268.214	-268.214
9.2	0.15333	268.185	-268.185
9.4	0.15667	268.157	-268.157
9.6	0.16000	268.128	-268.128
9.8	0.16333	268.103	-268.103
10.0	0.16667	268.078	-268.078
11.0	0.18333	267.951	-267.951
12.0	0.20000	267.846	-267.846
13.0	0.21667	267.764	-267.764
14.0	0.23333	267.694	-267.694
15.0	0.25000	267.637	-267.637
16.0	0.26667	267.587	-267.587
17.0	0.28333	267.546	-267.546
18.0	0.30000	267.508	-267.508
19.0	0.31667	267.470	-267.470
20.0	0.33333	267.441	-267.441
21.0	0.35000	267.416	-267.416
22.0	0.36667	267.387	-267.387
23.0	0.38333	267.362	-267.362
24.0	0.40000	267.343	-267.343
25.0	0.41667	267.324	-267.324
26.0	0.43333	267.305	-267.305
27.0	0.45000	267.286	-267.286
28.0	0.46667	267.267	-267.267
29.0	0.48333	267.254	-267.254
30.0	0.50000	267.242	-267.242
31.0	0.51667	267.223	-267.223
32.0	0.53333	267.207	-267.207
33.0	0.55000	267.197	-267.197
34.0	0.56667	267.185	-267.185
35.0	0.58333	267.175	-267.175
36.0	0.60000	267.162	-267.162
37.0	0.61667	267.153	-267.153
38.0	0.63333	267.140	-267.140
39.0	0.65000	267.134	-267.134
40.0	0.66667	267.121	-267.121
41.0	0.68333	267.115	-267.115
42.0	0.70000	267.109	-267.109
43.0	0.71667	267.099	-267.099
44.0	0.73333	267.093	-267.093

45.0	0.75000	267.083	-267.083
46.0	0.76667	267.077	-267.077
47.0	0.78333	267.067	-267.067
48.0	0.80000	267.061	-267.061
49.0	0.81667	267.058	-267.058
50.0	0.83333	267.051	-267.051
51.0	0.85000	267.048	-267.048
52.0	0.86667	267.042	-267.042
53.0	0.88333	267.055	-267.055
54.0	0.90000	267.039	-267.039
55.0	0.91667	267.029	-267.029
56.0	0.93333	267.020	-267.020
57.0	0.95000	267.013	-267.013
58.0	0.96667	267.010	-267.010
59.0	0.98333	267.004	-267.004
60.0	1.00000	267.001	-267.001
61.0	1.01667	266.994	-266.994
62.0	1.03333	266.988	-266.988
63.0	1.05000	266.982	-266.982
64.0	1.06667	266.985	-266.985
65.0	1.08333	266.975	-266.975
66.0	1.10000	266.972	-266.972
67.0	1.11667	266.969	-266.969
68.0	1.13333	266.966	-266.966
69.0	1.15000	266.960	-266.960
70.0	1.16667	266.956	-266.956
71.0	1.18333	266.953	-266.953
72.0	1.20000	266.950	-266.950
73.0	1.21667	266.950	-266.950
74.0	1.23333	266.944	-266.944
75.0	1.25000	266.947	-266.947
76.0	1.26667	266.941	-266.941
77.0	1.28333	266.941	-266.941
78.0	1.30000	266.934	-266.934
79.0	1.31667	266.931	-266.931
80.0	1.33333	266.928	-266.928
81.0	1.35000	266.925	-266.925
82.0	1.36667	266.922	-266.922
83.0	1.38333	266.922	-266.922
84.0	1.40000	266.918	-266.918
85.0	1.41667	266.915	-266.915
86.0	1.43333	266.912	-266.912

87.0	1.45000	266.912	-266.912
88.0	1.46667	266.909	-266.909
89.0	1.48333	266.909	-266.909
90.0	1.50000	266.906	-266.906
91.0	1.51667	266.903	-266.903
92.0	1.53333	266.906	-266.906
93.0	1.55000	266.903	-266.903
94.0	1.56667	266.896	-266.896
95.0	1.58333	266.896	-266.896
96.0	1.60000	266.893	-266.893
97.0	1.61667	266.887	-266.887
98.0	1.63333	266.890	-266.890
99.0	1.65000	266.887	-266.887
100.0	1.66667	266.884	-266.884
101.0	1.68333	266.884	-266.884
102.0	1.70000	266.884	-266.884
103.0	1.71667	266.880	-266.880
104.0	1.73333	266.877	-266.877
105.0	1.75000	266.874	-266.874
106.0	1.76667	266.893	-266.893
107.0	1.78333	266.884	-266.884
108.0	1.80000	266.880	-266.880
109.0	1.81667	266.877	-266.877
110.0	1.83333	266.871	-266.871
111.0	1.85000	266.871	-266.871
112.0	1.86667	266.868	-266.868
113.0	1.88333	266.868	-266.868
114.0	1.90000	266.865	-266.865
115.0	1.91667	266.865	-266.865
116.0	1.93333	266.861	-266.861
117.0	1.95000	266.861	-266.861
118.0	1.96667	266.868	-266.868
119.0	1.98333	266.865	-266.865
120.0	2.00000	266.858	-266.858
121.0	2.01667	266.858	-266.858
122.0	2.03333	266.861	-266.861
123.0	2.05000	266.858	-266.858
124.0	2.06667	266.855	-266.855
125.0	2.08333	266.852	-266.852
126.0	2.10000	266.849	-266.849
127.0	2.11667	266.852	-266.852
128.0	2.13333	266.849	-266.849

129.0	2.15000	266.849	-266.849
130.0	2.16667	266.849	-266.849
131.0	2.18333	266.842	-266.842
132.0	2.20000	266.842	-266.842
133.0	2.21667	266.842	-266.842
134.0	2.23333	266.839	-266.839
135.0	2.25000	266.842	-266.842
136.0	2.26667	266.842	-266.842
137.0	2.28333	266.839	-266.839
138.0	2.30000	266.842	-266.842
139.0	2.31667	266.839	-266.839
140.0	2.33333	266.846	-266.846
141.0	2.35000	266.842	-266.842
142.0	2.36667	266.839	-266.839
143.0	2.38333	266.836	-266.836
144.0	2.40000	266.830	-266.830
145.0	2.41667	266.836	-266.836
146.0	2.43333	266.833	-266.833
147.0	2.45000	266.830	-266.830
148.0	2.46667	266.830	-266.830
149.0	2.48333	266.833	-266.833
150.0	2.50000	266.830	-266.830
151.0	2.51667	266.830	-266.830
152.0	2.53333	266.842	-266.842
153.0	2.55000	266.836	-266.836
154.0	2.56667	266.830	-266.830
155.0	2.58333	266.830	-266.830
156.0	2.60000	266.830	-266.830
157.0	2.61667	266.833	-266.833
158.0	2.63333	266.830	-266.830
159.0	2.65000	266.827	-266.827
160.0	2.66667	266.823	-266.823
161.0	2.68333	266.823	-266.823
162.0	2.70000	266.820	-266.820
163.0	2.71667	266.827	-266.827
164.0	2.73333	266.830	-266.830
165.0	2.75000	266.827	-266.827
166.0	2.76667	266.823	-266.823
167.0	2.78333	266.823	-266.823
168.0	2.80000	266.820	-266.820
169.0	2.81667	266.823	-266.823
170.0	2.83333	266.820	-266.820

171.0	2.85000	266.820	-266.820
172.0	2.86667	266.820	-266.820
173.0	2.88333	266.814	-266.814
174.0	2.90000	266.817	-266.817
175.0	2.91667	266.817	-266.817
176.0	2.93333	266.814	-266.814
177.0	2.95000	266.814	-266.814
178.0	2.96667	266.817	-266.817
179.0	2.98333	266.817	-266.817
180.0	3.00000	266.814	-266.814
181.0	3.01667	266.814	-266.814
182.0	3.03333	266.814	-266.814
183.0	3.05000	266.811	-266.811
184.0	3.06667	266.811	-266.811
185.0	3.08333	266.808	-266.808
186.0	3.10000	266.808	-266.808
187.0	3.11667	266.808	-266.808
188.0	3.13333	266.811	-266.811
189.0	3.15000	266.811	-266.811
190.0	3.16667	266.808	-266.808
191.0	3.18333	266.814	-266.814
192.0	3.20000	266.811	-266.811
193.0	3.21667	266.808	-266.808
194.0	3.23333	266.808	-266.808
195.0	3.25000	266.811	-266.811
196.0	3.26667	266.808	-266.808
197.0	3.28333	266.808	-266.808
198.0	3.30000	266.811	-266.811
199.0	3.31667	266.827	-266.827
200.0	3.33333	266.839	-266.839
201.0	3.35000	266.830	-266.830
202.0	3.36667	266.823	-266.823
203.0	3.38333	266.817	-266.817
204.0	3.40000	266.817	-266.817
205.0	3.41667	266.814	-266.814
206.0	3.43333	266.811	-266.811
207.0	3.45000	266.811	-266.811
208.0	3.46667	266.808	-266.808
209.0	3.48333	266.808	-266.808
210.0	3.50000	266.808	-266.808
211.0	3.51667	266.808	-266.808
212.0	3.53333	266.808	-266.808

213.0	3.55000	266.808	-266.808
214.0	3.56667	266.808	-266.808
215.0	3.58333	266.804	-266.804
216.0	3.60000	266.804	-266.804
217.0	3.61667	266.801	-266.801
218.0	3.63333	266.801	-266.801
219.0	3.65000	266.801	-266.801
220.0	3.66667	266.801	-266.801
221.0	3.68333	266.801	-266.801
222.0	3.70000	266.801	-266.801
223.0	3.71667	266.801	-266.801
224.0	3.73333	266.798	-266.798
225.0	3.75000	266.798	-266.798
226.0	3.76667	266.795	-266.795
227.0	3.78333	266.795	-266.795
228.0	3.80000	266.830	-266.830
229.0	3.81667	266.820	-266.820
230.0	3.83333	266.811	-266.811
231.0	3.85000	266.804	-266.804
232.0	3.86667	266.801	-266.801
233.0	3.88333	266.801	-266.801
234.0	3.90000	266.801	-266.801
235.0	3.91667	266.804	-266.804
236.0	3.93333	266.801	-266.801
237.0	3.95000	266.801	-266.801
238.0	3.96667	266.801	-266.801
239.0	3.98333	266.801	-266.801
240.0	4.00000	266.801	-266.801
241.0	4.01667	266.801	-266.801
242.0	4.03333	266.801	-266.801
243.0	4.05000	266.798	-266.798
244.0	4.06667	266.798	-266.798
245.0	4.08333	266.798	-266.798
246.0	4.10000	266.808	-266.808
247.0	4.11667	266.804	-266.804
248.0	4.13333	266.801	-266.801
249.0	4.15000	266.801	-266.801
250.0	4.16667	266.801	-266.801
251.0	4.18333	266.801	-266.801
252.0	4.20000	266.801	-266.801
253.0	4.21667	266.798	-266.798
254.0	4.23333	266.798	-266.798

255.0	4.25000	266.798	-266.798
256.0	4.26667	266.798	-266.798
257.0	4.28333	266.798	-266.798
258.0	4.30000	266.798	-266.798
259.0	4.31667	266.798	-266.798
260.0	4.33333	266.798	-266.798
261.0	4.35000	266.798	-266.798
262.0	4.36667	266.801	-266.801
263.0	4.38333	266.798	-266.798
264.0	4.40000	266.798	-266.798
265.0	4.41667	266.795	-266.795
266.0	4.43333	266.795	-266.795
267.0	4.45000	266.792	-266.792
268.0	4.46667	266.795	-266.795
269.0	4.48333	266.795	-266.795
270.0	4.50000	266.801	-266.801
271.0	4.51667	266.798	-266.798
272.0	4.53333	266.798	-266.798
273.0	4.55000	266.795	-266.795
274.0	4.56667	266.798	-266.798
275.0	4.58333	266.795	-266.795
276.0	4.60000	266.792	-266.792
277.0	4.61667	266.795	-266.795
278.0	4.63333	266.795	-266.795
279.0	4.65000	266.804	-266.804
280.0	4.66667	266.798	-266.798
281.0	4.68333	266.798	-266.798
282.0	4.70000	266.795	-266.795
283.0	4.71667	266.795	-266.795
284.0	4.73333	266.795	-266.795
285.0	4.75000	266.795	-266.795
286.0	4.76667	266.795	-266.795
287.0	4.78333	266.795	-266.795
288.0	4.80000	266.795	-266.795
289.0	4.81667	266.795	-266.795
290.0	4.83333	266.792	-266.792
291.0	4.85000	266.795	-266.795
292.0	4.86667	266.795	-266.795
293.0	4.88333	266.795	-266.795
294.0	4.90000	266.798	-266.798
295.0	4.91667	266.811	-266.811
296.0	4.93333	266.804	-266.804

297.0	4.95000	266.801	-266.801
298.0	4.96667	266.798	-266.798
299.0	4.98333	266.801	-266.801
300.0	5.00000	266.798	-266.798
301.0	5.01667	266.795	-266.795
302.0	5.03333	266.798	-266.798
303.0	5.05000	266.798	-266.798
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305.0	5.08333	266.795	-266.795
306.0	5.10000	266.808	-266.808
307.0	5.11667	266.801	-266.801
308.0	5.13333	266.801	-266.801
309.0	5.15000	266.798	-266.798
310.0	5.16667	266.798	-266.798
311.0	5.18333	266.798	-266.798
312.0	5.20000	266.798	-266.798
313.0	5.21667	266.795	-266.795
314.0	5.23333	266.795	-266.795
315.0	5.25000	266.795	-266.795
316.0	5.26667	266.795	-266.795
317.0	5.28333	266.795	-266.795
318.0	5.30000	266.795	-266.795
319.0	5.31667	266.801	-266.801
320.0	5.33333	266.798	-266.798
321.0	5.35000	266.798	-266.798
322.0	5.36667	266.795	-266.795
323.0	5.38333	266.798	-266.798
324.0	5.40000	266.795	-266.795
325.0	5.41667	266.795	-266.795
326.0	5.43333	266.792	-266.792
327.0	5.45000	266.795	-266.795
328.0	5.46667	266.798	-266.798
329.0	5.48333	266.795	-266.795
330.0	5.50000	266.792	-266.792
331.0	5.51667	266.795	-266.795
332.0	5.53333	266.795	-266.795
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334.0	5.56667	266.792	-266.792
335.0	5.58333	266.792	-266.792
336.0	5.60000	266.789	-266.789
337.0	5.61667	266.792	-266.792
338.0	5.63333	266.795	-266.795

339.0	5.65000	266.795	-266.795
340.0	5.66667	266.795	-266.795
341.0	5.68333	266.795	-266.795
342.0	5.70000	266.798	-266.798
343.0	5.71667	266.795	-266.795
344.0	5.73333	266.792	-266.792
345.0	5.75000	266.795	-266.795
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348.0	5.80000	266.792	-266.792
349.0	5.81667	266.792	-266.792
350.0	5.83333	266.792	-266.792
351.0	5.85000	266.795	-266.795
352.0	5.86667	266.798	-266.798
353.0	5.88333	266.795	-266.795
354.0	5.90000	266.795	-266.795
355.0	5.91667	266.795	-266.795
356.0	5.93333	266.795	-266.795
357.0	5.95000	266.795	-266.795
358.0	5.96667	266.792	-266.792
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361.0	6.01667	266.792	-266.792
362.0	6.03333	266.792	-266.792
363.0	6.05000	266.792	-266.792
364.0	6.06667	266.795	-266.795
365.0	6.08333	266.792	-266.792
366.0	6.10000	266.792	-266.792
367.0	6.11667	266.792	-266.792
368.0	6.13333	266.795	-266.795
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370.0	6.16667	266.795	-266.795
371.0	6.18333	266.792	-266.792
372.0	6.20000	266.798	-266.798
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374.0	6.23333	266.795	-266.795
375.0	6.25000	266.798	-266.798
376.0	6.26667	266.795	-266.795
377.0	6.28333	266.795	-266.795
378.0	6.30000	266.798	-266.798
379.0	6.31667	266.795	-266.795
380.0	6.33333	266.795	-266.795

381.0	6.35000	266.798	-266.798
382.0	6.36667	266.795	-266.795
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391.0	6.51667	266.795	-266.795
392.0	6.53333	266.795	-266.795
393.0	6.55000	266.798	-266.798
394.0	6.56667	266.808	-266.808
395.0	6.58333	266.804	-266.804
396.0	6.60000	266.798	-266.798
397.0	6.61667	266.798	-266.798
398.0	6.63333	266.798	-266.798
399.0	6.65000	266.801	-266.801
400.0	6.66667	266.798	-266.798
401.0	6.68333	266.798	-266.798
402.0	6.70000	266.795	-266.795
403.0	6.71667	266.795	-266.795
404.0	6.73333	266.795	-266.795
405.0	6.75000	266.792	-266.792
406.0	6.76667	266.795	-266.795
407.0	6.78333	266.795	-266.795
408.0	6.80000	266.795	-266.795
409.0	6.81667	266.795	-266.795
410.0	6.83333	266.795	-266.795
411.0	6.85000	266.795	-266.795
412.0	6.86667	266.798	-266.798
413.0	6.88333	266.795	-266.795
414.0	6.90000	266.795	-266.795
415.0	6.91667	266.795	-266.795
416.0	6.93333	266.798	-266.798
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418.0	6.96667	266.798	-266.798
419.0	6.98333	266.798	-266.798
420.0	7.00000	266.798	-266.798
421.0	7.01667	266.798	-266.798
422.0	7.03333	266.798	-266.798

423.0	7.05000	266.798	-266.798
424.0	7.06667	266.798	-266.798
425.0	7.08333	266.798	-266.798
426.0	7.10000	266.798	-266.798
427.0	7.11667	266.798	-266.798
428.0	7.13333	266.798	-266.798
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430.0	7.16667	266.801	-266.801
431.0	7.18333	266.801	-266.801
432.0	7.20000	266.804	-266.804
433.0	7.21667	266.801	-266.801
434.0	7.23333	266.801	-266.801
435.0	7.25000	266.798	-266.798
436.0	7.26667	266.801	-266.801
437.0	7.28333	266.798	-266.798
438.0	7.30000	266.801	-266.801
439.0	7.31667	266.801	-266.801
440.0	7.33333	266.808	-266.808
441.0	7.35000	266.808	-266.808
442.0	7.36667	266.804	-266.804
443.0	7.38333	266.804	-266.804
444.0	7.40000	266.801	-266.801
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446.0	7.43333	266.798	-266.798
447.0	7.45000	266.801	-266.801
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449.0	7.48333	266.801	-266.801
450.0	7.50000	266.798	-266.798
451.0	7.51667	266.801	-266.801
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455.0	7.58333	266.804	-266.804
456.0	7.60000	266.808	-266.808
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459.0	7.65000	266.804	-266.804
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461.0	7.68333	266.798	-266.798
462.0	7.70000	266.798	-266.798
463.0	7.71667	266.798	-266.798
464.0	7.73333	266.798	-266.798

465.0	7.75000	266.795	-266.795
466.0	7.76667	266.792	-266.792
467.0	7.78333	266.795	-266.795
468.0	7.80000	266.798	-266.798
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470.0	7.83333	266.798	-266.798
471.0	7.85000	266.795	-266.795
472.0	7.86667	266.798	-266.798
473.0	7.88333	266.798	-266.798
474.0	7.90000	266.801	-266.801
475.0	7.91667	266.804	-266.804
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480.0	8.00000	266.798	-266.798
481.0	8.01667	266.798	-266.798
482.0	8.03333	266.798	-266.798
483.0	8.05000	266.798	-266.798
484.0	8.06667	266.795	-266.795
485.0	8.08333	266.795	-266.795
486.0	8.10000	266.798	-266.798
487.0	8.11667	266.795	-266.795
488.0	8.13333	266.798	-266.798
489.0	8.15000	266.798	-266.798
490.0	8.16667	266.795	-266.795
491.0	8.18333	266.795	-266.795
492.0	8.20000	266.795	-266.795
493.0	8.21667	266.795	-266.795
494.0	8.23333	266.795	-266.795
495.0	8.25000	266.795	-266.795
496.0	8.26667	266.795	-266.795
497.0	8.28333	266.795	-266.795
498.0	8.30000	266.795	-266.795
499.0	8.31667	266.801	-266.801
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501.0	8.35000	266.811	-266.811
502.0	8.36667	266.811	-266.811
503.0	8.38333	266.808	-266.808
504.0	8.40000	266.808	-266.808
505.0	8.41667	266.801	-266.801
506.0	8.43333	266.801	-266.801

507.0	8.45000	266.798	-266.798
508.0	8.46667	266.798	-266.798
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510.0	8.50000	266.801	-266.801
511.0	8.51667	266.801	-266.801
512.0	8.53333	266.801	-266.801
513.0	8.55000	266.801	-266.801
514.0	8.56667	266.798	-266.798
515.0	8.58333	266.808	-266.808
516.0	8.60000	266.814	-266.814
517.0	8.61667	266.811	-266.811
518.0	8.63333	266.804	-266.804
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520.0	8.66667	266.801	-266.801
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522.0	8.70000	266.801	-266.801
523.0	8.71667	266.798	-266.798
524.0	8.73333	266.801	-266.801
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536.0	8.93333	266.798	-266.798
537.0	8.95000	266.798	-266.798
538.0	8.96667	266.798	-266.798
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543.0	9.05000	266.798	-266.798
544.0	9.06667	266.798	-266.798
545.0	9.08333	266.801	-266.801
546.0	9.10000	266.808	-266.808
547.0	9.11667	266.808	-266.808
548.0	9.13333	266.804	-266.804

549.0	9.15000	266.801	-266.801
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555.0	9.25000	266.801	-266.801
556.0	9.26667	266.801	-266.801
557.0	9.28333	266.798	-266.798
558.0	9.30000	266.801	-266.801
559.0	9.31667	266.798	-266.798
560.0	9.33333	266.798	-266.798
561.0	9.35000	266.801	-266.801
562.0	9.36667	266.798	-266.798
563.0	9.38333	266.808	-266.808
564.0	9.40000	266.808	-266.808
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571.0	9.51667	266.804	-266.804
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573.0	9.55000	266.804	-266.804
574.0	9.56667	266.804	-266.804
575.0	9.58333	266.801	-266.801
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577.0	9.61667	266.804	-266.804
578.0	9.63333	266.814	-266.814
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580.0	9.66667	266.808	-266.808
581.0	9.68333	266.808	-266.808
582.0	9.70000	266.808	-266.808
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585.0	9.75000	266.801	-266.801
586.0	9.76667	266.804	-266.804
587.0	9.78333	266.804	-266.804
588.0	9.80000	266.801	-266.801
589.0	9.81667	266.801	-266.801
590.0	9.83333	266.801	-266.801

591.0	9.85000	266.801	-266.801
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593.0	9.88333	266.801	-266.801
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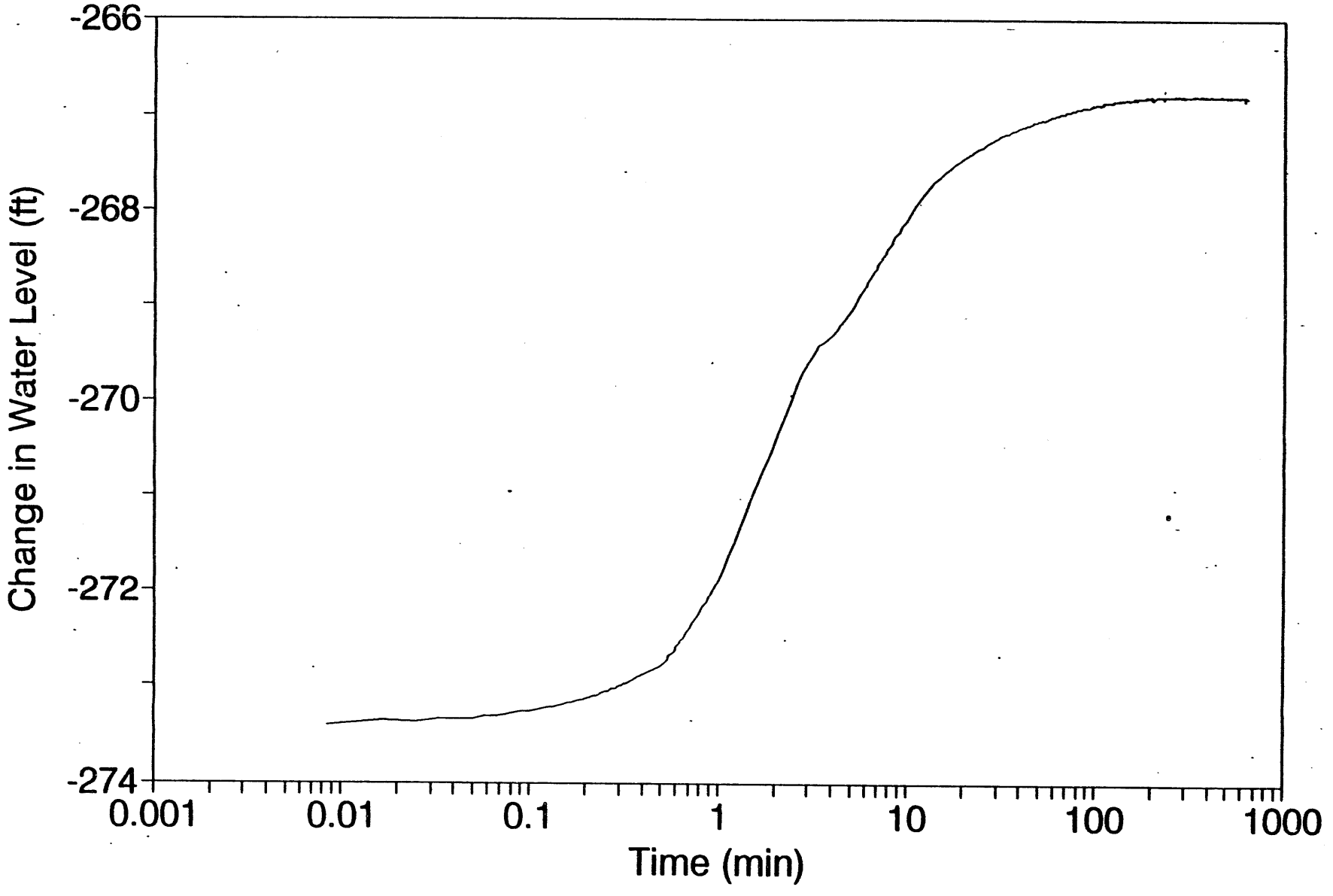
602.0	10.03333	266.808	-266.808
603.0	10.05000	266.808	-266.808
604.0	10.06667	266.804	-266.804
605.0	10.08333	266.804	-266.804
606.0	10.10000	266.804	-266.804
607.0	10.11667	266.808	-266.808
608.0	10.13333	266.804	-266.804
609.0	10.15000	266.808	-266.808
610.0	10.16667	266.804	-266.804
611.0	10.18333	266.804	-266.804
612.0	10.20000	266.808	-266.808
613.0	10.21667	266.804	-266.804
614.0	10.23333	266.804	-266.804
615.0	10.25000	266.846	-266.846
616.0	10.26667	266.830	-266.830
617.0	10.28333	266.820	-266.820
618.0	10.30000	266.817	-266.817
619.0	10.31667	266.817	-266.817
620.0	10.33333	266.814	-266.814
621.0	10.35000	266.811	-266.811
622.0	10.36667	266.811	-266.811
623.0	10.38333	266.814	-266.814
624.0	10.40000	266.811	-266.811
625.0	10.41667	266.811	-266.811
626.0	10.43333	266.808	-266.808
627.0	10.45000	266.808	-266.808
628.0	10.46667	266.811	-266.811
629.0	10.48333	266.811	-266.811
630.0	10.50000	266.814	-266.814
631.0	10.51667	266.814	-266.814
632.0	10.53333	266.811	-266.811

633.0	10.55000	266.811	-266.811
634.0	10.56667	266.811	-266.811
635.0	10.58333	266.808	-266.808
636.0	10.60000	266.808	-266.808
637.0	10.61667	266.811	-266.811
638.0	10.63333	266.811	-266.811

299-W12-1 Step Drawdown
Recovery



W11-10

FIELD ACTIVITY REPORT

Report 1 of ____

Page 1 of 1

Purpose: Aquifer testing

Date	Well/Excavation No.	Rig Type	Contract/Work Order No.	Start Card No.
9-9-93	W11-10 / W12-1	—	PT 1 4 B	

Operable Unit/Project: 200 UP-1

Location: East of T-plant

Reference: WHC-SD-EN-AP-130-R-1

Activity:

Extended Baselines
Prior to Drawdown tests

PERSONNEL:

FTL: —
Geologist: —
Driller: —
Helper: —
HPT: —
SSO: —
Other: B. Strode MCE/WHC

TIME: Start: 1015 Finish: 11:35

DELAYS/EXPLANATIONS: ____

Description of Operations/Remarks

10:15 on site 299W-11-10 SWL 275.26; ET-4 7-30-94
Set x-ducer #350976 10.214' below static on input #1
Set (Baro) x-ducer #300653 on input #2 - using Hermit #2K-521
Delay Start Test #3 1200/9-9-93 Secure well head —
1035 on site 299W-12-1 SWL 277.37; ET-4 (7-30-94) Set
x-ducer #2246 10.575' Below SWL Delay Start: Test #0
Set for 1200 9-9-93 on Hermit #2K-192 - Well head Secured

Report By: B. F. Strode (Print) [signature] (Sign) Date: 9-9-93

Title/Company: Equipment Technician MCE/WHC

A-6001-123 (03/93)

FIELD ACTIVITY REPORT

Report 1 of ____

Page ____ of ____

Purpose: Aquifer test

Date	Well/Excavation No.	Rig Type	Contract/Work Order No.	Start Card No.
9/21/93	299-W11-10	Pump Setting		

Operable Unit/Project: IAP-1

Location: Yu mile EAST of T-Plant

Reference: WHC-EN-SD-AP-130 Rev. 1

Activity: Installation of test Pump for Aquifer Test.

PERSONNEL:

FTL:

Geologist: RS Edrington (WHC)

Driller: M. Dorsey (WHC)

Helper: H. Parrish (WHC)

HPT:

SSO:

Other: B.F. Strode (MCE)

TIME: Start: ____ Finish: ____

DELAYS/EXPLANATIONS: ____

Description of Operations/Remarks

1140 - Arrive on Site; waiting for EFS Personnel
1141 - SWL = 275.68' (ET-4)
1332 - leave Site for Grout well development; EFS Personnel installing Pump
1438 - Return to Site
1446 - Pump in Place; intake @ 288.06' TOC
1455 - Well secured; leave Site

Report By: Robert S. Edrington (Print) Robert S. Edrington (Sign) Date: 9/30/93

Title/Company: Advanced Scientist WHC

A-6001-123 (03/93)

FIELD ACTIVITY REPORT

Report 1 of ____

Page 1 of 1

Purpose ____

Date	Well/Excavation No.	Rig Type	Contract/Work Order No.	Start Card No.
9/27/93	299W-11-10	—	PT148	

Operable Unit/Project: 200-UP-1

Reference:

Location: 1/4 mi East of T-Plant

Activity:

Step drawdown test to establish pumping rate for complete drawdown

PERSONNEL:

FTL: J.A. Coates (WHC)

Geologist:

Driller:

Helper:

HPT:

SSO:

Other: B.F. Strode (MCE/WHC)

TIME: Start: 1000 Finish: 1945

DELAYS/EXPLANATIONS: ____

Description of Operations/Remarks

1000 - on site begin manifold setup for step test. ie flow stabilization tube, orfice assy, Badger-Meter Inc. w/ plate # 9-24-706 - 4/2 = 1" X .5, discharge section with 2 export valves and one sampling port. Export #2 connected through 3 stage omega/trovark rotometer, all ending with final discharge into 2000 gal 316 SS purge water tanker.

1230 - J.A. Coates on site - S.W.L. 275.34' - ET-4 (1-20-94)

Hermit # 2K-92 - input #1 x-ducer # 350976 (3-11-94) depth 8.292 (10 KB)

input #2 solo. x-ducer # 2110 (3-23-94) upstream orifice

input #3 solo. x-ducer # 2430 (7-22-94) downstream orifice

1635 Start test #0 .6 GPM taken from rotometer. Step # 1

1735 Start test #1 flow rate increased to 2.0 GPM Step # 2

1835 Start test #2 flow rate increased to 6.75 GPM Step #3

1935 Start test #3 inflate argon operated check valve / Recovery

1945 Well head secure 551 Gals pumped Recovery set running

Report By: B.F. Strode (Print) [signature] (Sign) Date: 9/27/93

Title/Company: Equipment Technician MCE/WHC

A-6001-123 (03/93)

FIELD ACTIVITY REPORT

Report 1 of ____

Page 1 of 1

Purpose: Drawdown test

Date	Well/Excavation No.	Rig Type	Contract/Work Order No.	Start Card No.
9-28-93	299W-11-10	—	PT143	

Operable Unit/Project: 200-UP-1

Reference:

Location: 1/4 mi East of T-Plant

Activity: Drawdown testing (Extended)

PERSONNEL:

FTL: J.A. Coates (WHC)

Geologist: R.S. Edrington (WHC)

Driller:

Helper:

HPT:

SSO:

Other: B F. Strode (MCE/WHC)

TIME: Start: 0605 Finish: 2359

DELAYS/EXPLANATIONS:

Description of Operations/Remarks

0605 on site stop test #2 return to 740 S.C. to compile data from step tests —
1045 on site Setting up for testing - SWL 275.42 - ET-4 (1-30-94)
— input #1 x-ducer # 350976 (3-11-94) Depth 10.212
— input #2 x-ducer # 2110 (3-23-94) upstream orifice Badger Meter
— input #3 x-ducer # 2430 (7-22-94) downstream orifice 1" X .5
— input #4 x-ducer # 300053 Barometric efficiency
1115 Start test #0 5 GPM. 1326: J.A. Coates leaves site
1430 KEH Teamster arrives on site with 0300 Gallon purge trough
— and one 500 gallon purge trough - takes tanker for dumping (3000)
1510 4000 gal tanker delivered
525 3000 gal tanker now also on site.
1610 J.A. Coates back on site
625 R.S. Edrington off site.
2105 RS Edrington back on site.
2120 J.A Coates off site. Still maintaining 5 G.P.M.
2359 Pumping still in progress Continue log on next date.

Report By: R.F Strode (Print) (Sign) Date: 9-28-93

Title/Company: Equipment Tech MCE/WHC

A-6001-123 (03/93)

FIELD ACTIVITY REPORT

Report 1 of ____

Page 1 of 1

Purpose: Aquifer Drawdown test

Date	Well/Excavation No.	Rig Type	Contract/Work Order No.	Start Card No.
9-29-93	299W-11-10	—	PT1 A13	

Operable Unit/Project: 200-UP1

Location: 1/4 mi East of T. Plant

Reference:

Activity:

PERSONNEL:

FTL: J.A. Cortes (WHC)

Geologist: R.S. Edrington (WHC)

Driller:

Helper:

HPT:

SSO:

Other: B. F. Stroude (MCE/WHC)

TIME: Start: 0001 Finish: 0440

DELAYS/EXPLANATIONS:

Description of Operations/Remarks

0001 - Pumping continues at 5 GPM all settings and equipment same as on 9-28-93

0416 - Stop test #0

0419 - End pumping Begin recovery test #1

0440 - well head secure leave site —

Report By: B. F. Stroude (Print) B. F. Stroude (Sign) Date: 9-29-93

Title/Company: Equipment Tech. (MCE/WHC)

A-6001-123 (03/93)

APPENDIX C

299-W12-1 SLUG TEST DATA

BOREHOLE TEST INFORMATION

page 1 of 1

Borehole 299-W12-1 Borehole Diameter 8 in. Hanford Coordinates N/A

Interval Tested 277.31'-306.64' Perf'ed Interval 276.26'-306.64' Test Type: Instantaneous Slug

Borehole Depth: 306.64' Instruction Used: WHC-CM-7-7 (EII 10.1)

EQUIPMENT

NAME	DESCRIPTION	
Electric Sounder	Solinst s/n: ET-4	Calibration due: 1-30-94
Data Logger	In-Situ Inc. s/n: 2K-459	
Pressure Transducer	In-Situ Inc. s/n: 2246	Calibration due: 3-11-94
Slugging Rod	BR-2: 0.194 Cu. Ft.	
Steel Measuring Tape	500' Graduated Steel Tape	

MEASUREMENT DATUM

Control Datum: Top of Casing (TOC) 8"

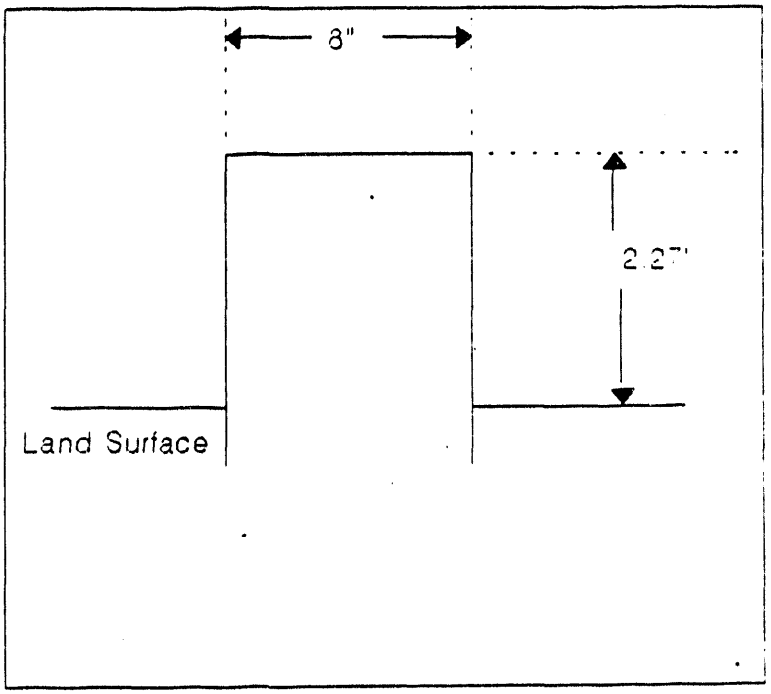
Elevation: N/A

Electric Sounder: TOC 8"

Steel Tape: TOC 8"

Pressure Transducer: TOC 8"

WELL HEAD DIAGRAM



COMMENTS

Recorded by: Robert S. Edrington Date: 8/16/93

Sign and Print Name

FIELD ACTIVITY REPORT

Report 1 of _____

Page 1 of 1

Purpose: Aquifer Testing

Date	Well/Excavation No.	Rig Type	Contract/Work Order No.	Start Card No.
8/12/93	299W 12-1	Small Pump Setting 5T		

Operable Unit/Project: 200 UP-1

Location: 200 W inside fence across from weather station

Reference: WHC-SD-EN-AP-130 Rev 1

Activity: Slug test

PERSONNEL:

FTL:

Geologist:

Driller: T. Hottell #1945 WHC

Helper: D. Hollingsworth

HPT: D Newton WHC

SSO:

Other: B. Strode MCE/WHC

TIME: Start: 0815 Finish: _____

DELAYS/EXPLANATIONS: _____

Description of Operations/Remarks

0815 on Site 299W 12-1 SWL 277.31' ET-4 (1-30-94) Tag TOC 8" 306.64'
0840 Start test #0 X-ducer #2246 (3-11-94) Hermit 2K-459 Depth 12.473'
0856 Stop test #0
0858 Start test #1 injection (BR-2 ~~193~~ .194 Cu ET)
0920 Stop test #1
0921 Start test #2 Baseline
0932 Stop test #2
0933 Start test #3 withdrawl
0958 Stop test #3
1014 Well Head Secure

Report By: B.F. Strode (Print) _____ (Sign) Date: 8/12/93

Title/Company: Equipment Technician MCE/WHC

A-6001-123 (03/93)

INSTANTANEOUS SLUG TEST DATA SHEET: INJECTION

Borehole: 299-W12-1

Interval Tested: 277.31'-306.64' TOC 8"

Depth To Water: 277.31' TOC 8"

Depth to Transducer: 12.473' BWL

Measured by: Bret F. Strode

Slug Volume: BR-2 0.194 Cu ft

Barometric Reading:

Beginning: N/A End: N/A

Time:	Start	End
Baseline	0840	0856
Injection	0858	0920

Date: 8-12-93

Initial Pressure (Pi): 277.310'

Slug Level/Pressure (Pmax) 277.011'

Borehole Diameter: 8"

Time		Pressure	Time		Pressure	Time		Pressure
Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement
		See Attached.						
					See Attached.			

Recorded by: Robert S. Edrington Date: 8-16-93

Sign and Print Name

BD-6000-293(07/90)

299-W12-1 Slug Injection

299-W12-1 Slug Injection

Datalogger: Hermit Unit# 459
Input #1
Water Level in Feet below top of Casing
SWL: 277.310'

Test 1 Injection
Injection: 08:57 8/12/93

Time:min	Time:hrs	D-T-W:Ft	d(WL):Ft
0.0000	0.00000	276.858	-276.858
0.0083	0.00014	278.228	-278.228
0.0166	0.00028	277.236	-277.236
0.0250	0.00042	277.405	-277.405
0.0333	0.00056	276.906	-276.906
0.0416	0.00069	277.011	-277.011
0.0500	0.00083	277.074	-277.074
0.0583	0.00097	277.036	-277.036
0.0666	0.00111	277.030	-277.030
0.0750	0.00125	277.020	-277.020
0.0833	0.00139	277.024	-277.024
0.0916	0.00153	277.024	-277.024
0.1000	0.00167	277.036	-277.036
0.1083	0.00181	277.036	-277.036
0.1166	0.00194	277.033	-277.033
0.1250	0.00208	277.039	-277.039
0.1333	0.00222	277.043	-277.043
0.1416	0.00236	277.046	-277.046
0.1500	0.00250	277.043	-277.043
0.1583	0.00264	277.043	-277.043
0.1666	0.00278	277.046	-277.046
0.1750	0.00292	277.049	-277.049
0.1833	0.00306	277.049	-277.049
0.1916	0.00319	277.052	-277.052
0.2000	0.00333	277.052	-277.052
0.2083	0.00347	277.055	-277.055
0.2166	0.00361	277.055	-277.055
0.2250	0.00375	277.059	-277.059
0.2333	0.00389	277.062	-277.062
0.2416	0.00403	277.062	-277.062
0:2500	0.00417	277.065	-277.065

Test 0 Baseline
Baseline Start: 08:40 8/12/93

Time:min	Time:hrs	D-T-W:Ft	d(WL):Ft
0	0.0000	277.310	-277.310
1	0.0167	277.300	-277.300
2	0.0333	277.294	-277.294
3	0.0500	277.287	-277.287
4	0.0667	277.275	-277.275
5	0.0833	277.268	-277.268
6	0.1000	277.262	-277.262
7	0.1167	277.255	-277.255
8	0.1333	277.249	-277.249
9	0.1500	277.246	-277.246
10	0.1667	277.240	-277.240
11	0.1833	277.236	-277.236
12	0.2000	277.233	-277.233
13	0.2167	277.233	-277.233
14	0.2333	277.230	-277.230
15	0.2500	277.224	-277.224
16	0.2667	277.224	-277.224

299-W12-1 Slug Injection

0.2583	0.00431	277.065	-277.065
0.2666	0.00444	277.068	-277.068
0.2750	0.00458	277.071	-277.071
0.2833	0.00472	277.071	-277.071
0.2916	0.00486	277.071	-277.071
0.3000	0.00500	277.074	-277.074
0.3083	0.00514	277.074	-277.074
0.3166	0.00528	277.078	-277.078
0.3250	0.00542	277.078	-277.078
0.3333	0.00556	277.081	-277.081
0.3500	0.00583	277.081	-277.081
0.3666	0.00611	277.084	-277.084
0.3833	0.00639	277.087	-277.087
0.4000	0.00667	277.090	-277.090
0.4166	0.00694	277.093	-277.093
0.4333	0.00722	277.097	-277.097
0.4500	0.00750	277.100	-277.100
0.4666	0.00778	277.103	-277.103
0.4833	0.00806	277.103	-277.103
0.5000	0.00833	277.106	-277.106
0.5166	0.00861	277.109	-277.109
0.5333	0.00889	277.113	-277.113
0.5500	0.00917	277.113	-277.113
0.5666	0.00944	277.116	-277.116
0.5833	0.00972	277.116	-277.116
0.6000	0.01000	277.119	-277.119
0.6166	0.01028	277.122	-277.122
0.6333	0.01056	277.122	-277.122
0.6500	0.01083	277.125	-277.125
0.6666	0.01111	277.128	-277.128
0.6833	0.01139	277.128	-277.128
0.7000	0.01167	277.132	-277.132
0.7166	0.01194	277.132	-277.132
0.7333	0.01222	277.135	-277.135
0.7500	0.01250	277.135	-277.135
0.7666	0.01278	277.138	-277.138
0.7833	0.01306	277.138	-277.138
0.8000	0.01333	277.141	-277.141
0.8166	0.01361	277.141	-277.141
0.8333	0.01389	277.144	-277.144
0.8500	0.01417	277.144	-277.144
0.8666	0.01444	277.147	-277.147

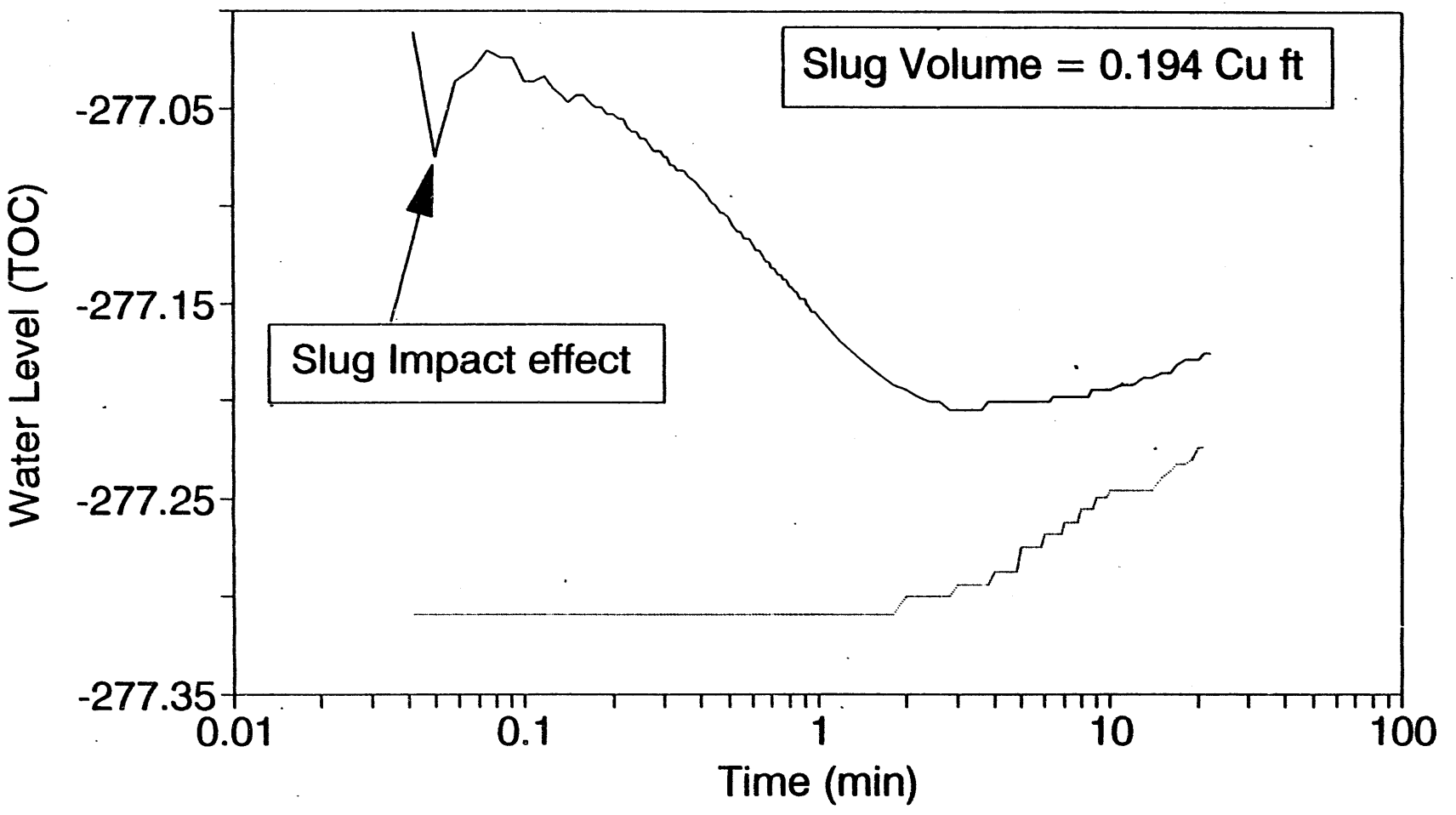
299-W12-1 Slug Injection

0.8833	0.01472	277.147	-277.147
0.9000	0.01500	277.147	-277.147
0.9166	0.01528	277.151	-277.151
0.9333	0.01556	277.151	-277.151
0.9500	0.01583	277.154	-277.154
0.9666	0.01611	277.154	-277.154
0.9833	0.01639	277.154	-277.154
1.00	0.01667	277.157	-277.157
1.20	0.02000	277.170	-277.170
1.40	0.02333	277.179	-277.179
1.60	0.02667	277.186	-277.186
1.80	0.03000	277.192	-277.192
2.00	0.03333	277.195	-277.195
2.20	0.03667	277.198	-277.198
2.40	0.04000	277.201	-277.201
2.60	0.04333	277.201	-277.201
2.80	0.04667	277.205	-277.205
3.00	0.05000	277.205	-277.205
3.20	0.05333	277.205	-277.205
3.40	0.05667	277.205	-277.205
3.60	0.06000	277.205	-277.205
3.80	0.06333	277.201	-277.201
4.00	0.06667	277.201	-277.201
4.20	0.07000	277.201	-277.201
4.40	0.07333	277.201	-277.201
4.60	0.07667	277.201	-277.201
4.80	0.08000	277.201	-277.201
5.00	0.08333	277.201	-277.201
5.20	0.08667	277.201	-277.201
5.40	0.09000	277.201	-277.201
5.60	0.09333	277.201	-277.201
5.80	0.09667	277.201	-277.201
6.00	0.10000	277.201	-277.201
6.20	0.10333	277.201	-277.201
6.40	0.10667	277.198	-277.198
6.60	0.11000	277.198	-277.198
6.80	0.11333	277.198	-277.198
7.00	0.11667	277.198	-277.198
7.20	0.12000	277.198	-277.198
7.40	0.12333	277.198	-277.198
7.60	0.12667	277.198	-277.198
7.80	0.13000	277.198	-277.198

299-W12-1 Slug Injection

8.00	0.13333	277.198	-277.198
8.20	0.13667	277.198	-277.198
8.40	0.14000	277.198	-277.198
8.60	0.14333	277.195	-277.195
8.80	0.14667	277.195	-277.195
9.00	0.15000	277.195	-277.195
9.20	0.15333	277.195	-277.195
9.40	0.15667	277.195	-277.195
9.60	0.16000	277.195	-277.195
9.80	0.16333	277.195	-277.195
10.00	0.16667	277.195	-277.195
11.00	0.18333	277.192	-277.192
12.00	0.20000	277.192	-277.192
13.00	0.21667	277.189	-277.189
14.00	0.23333	277.189	-277.189
15.00	0.25000	277.186	-277.186
16.00	0.26667	277.186	-277.186
17.00	0.28333	277.182	-277.182
18.00	0.30000	277.179	-277.179
19.00	0.31667	277.179	-277.179
20.00	0.33333	277.179	-277.179
21.00	0.35000	277.176	-277.176
22.00	0.36667	277.176	-277.176

299-W12-1 Slug Injection
12-Aug-93



Slug Injection — Baseline

INSTANTANEOUS SLUG TEST DATA SHEET: WITHDRAWAL

Borehole: 299-W12-1

Interval Tested: 277.31'-306.64' TOC 8"

Depth To Water: 277.31' TOC 8"

Depth to Transducer: 12.473' BWL

Measured by: Bret F. Strode

Slug Volume: BR-2 0.194 Cu ft

Barometric Reading:

Beginning: N/A End: N/A

Time:	Start	End
Baseline	0921	0932
Withdrawal	0933	0958

Date: 8-12-93

Initial Pressure (Pi): 277.31'

Slug Level/Pressure (Pmax) 277.497'

Borehole Diameter: 8"

Time		Pressure	Time		Pressure	Time		Pressure
Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement
		See Attached.						
					See Attached.			

Recorded by: Robert S. Edrington Date 8-16-93

Sign and Print Name

BD-6000-293(07/90)

299-W12-1 Slug Withdrawal

299-W12-1 Slug Withdrawal

Datalogger: Hermit Unit# 459
Input #1
Water Level in Feet below top of Casing
SWL: 277.310'

Test 3 Withdrawal
Withdrawal: 09:33 8/12/93

Time:min	Time:hrs	D-T-W:Ft	d(WL):Ft
0.0000	0.00000	277.287	-277.287
0.0083	0.00014	277.497	-277.497
0.0166	0.00028	277.478	-277.478
0.0250	0.00042	277.430	-277.430
0.0333	0.00056	277.421	-277.421
0.0416	0.00069	277.446	-277.446
0.0500	0.00083	277.430	-277.430
0.0583	0.00097	277.430	-277.430
0.0666	0.00111	277.424	-277.424
0.0750	0.00125	277.421	-277.421
0.0833	0.00139	277.411	-277.411
0.0916	0.00153	277.408	-277.408
0.1000	0.00167	277.402	-277.402
0.1083	0.00181	277.398	-277.398
0.1166	0.00194	277.395	-277.395
0.1250	0.00208	277.389	-277.389
0.1333	0.00222	277.389	-277.389
0.1416	0.00236	277.386	-277.386
0.1500	0.00250	277.386	-277.386
0.1583	0.00264	277.376	-277.376
0.1666	0.00278	277.373	-277.373
0.1750	0.00292	277.370	-277.370
0.1833	0.00306	277.370	-277.370
0.1916	0.00319	277.367	-277.367
0.2000	0.00333	277.364	-277.364
0.2083	0.00347	277.364	-277.364
0.2166	0.00361	277.357	-277.357
0.2250	0.00375	277.357	-277.357
0.2333	0.00389	277.354	-277.354
0.2416	0.00403	277.351	-277.351
0.2500	0.00417	277.351	-277.351

Test 2 Baseline
Baseline Start: 09:21 8/12/93

Time:min	Time:hrs	D-T-W:Ft	d(WL):Ft
0	0.000	277.173	-277.173
1	0.017	277.173	-277.173
2	0.033	277.173	-277.173
3	0.050	277.170	-277.170
4	0.067	277.170	-277.170
5	0.083	277.170	-277.170
6	0.100	277.170	-277.170
7	0.117	277.170	-277.170
8	0.133	277.167	-277.167
9	0.150	277.163	-277.163
10	0.167	277.163	-277.163

299-W12-1 Slug Withdrawal

0.2583	0.00431	277.348	-277.348
0.2666	0.00444	277.344	-277.344
0.2750	0.00458	277.341	-277.341
0.2833	0.00472	277.341	-277.341
0.2916	0.00486	277.338	-277.338
0.3000	0.00500	277.338	-277.338
0.3083	0.00514	277.335	-277.335
0.3166	0.00528	277.335	-277.335
0.3250	0.00542	277.332	-277.332
0.3333	0.00556	277.329	-277.329
0.3500	0.00583	277.325	-277.325
0.3666	0.00611	277.322	-277.322
0.3833	0.00639	277.319	-277.319
0.4000	0.00667	277.316	-277.316
0.4166	0.00694	277.310	-277.310
0.4333	0.00722	277.310	-277.310
0.4500	0.00750	277.306	-277.306
0.4666	0.00778	277.300	-277.300
0.4833	0.00806	277.300	-277.300
0.5000	0.00833	277.297	-277.297
0.5166	0.00861	277.294	-277.294
0.5333	0.00889	277.290	-277.290
0.5500	0.00917	277.287	-277.287
0.5666	0.00944	277.284	-277.284
0.5833	0.00972	277.281	-277.281
0.6000	0.01000	277.278	-277.278
0.6166	0.01028	277.275	-277.275
0.6333	0.01056	277.275	-277.275
0.6500	0.01083	277.271	-277.271
0.6666	0.01111	277.268	-277.268
0.6833	0.01139	277.265	-277.265
0.7000	0.01167	277.262	-277.262
0.7166	0.01194	277.262	-277.262
0.7333	0.01222	277.259	-277.259
0.7500	0.01250	277.255	-277.255
0.7666	0.01278	277.255	-277.255
0.7833	0.01306	277.252	-277.252
0.8000	0.01333	277.249	-277.249
0.8166	0.01361	277.249	-277.249
0.8333	0.01389	277.246	-277.246
0.8500	0.01417	277.243	-277.243
0.8666	0.01444	277.243	-277.243

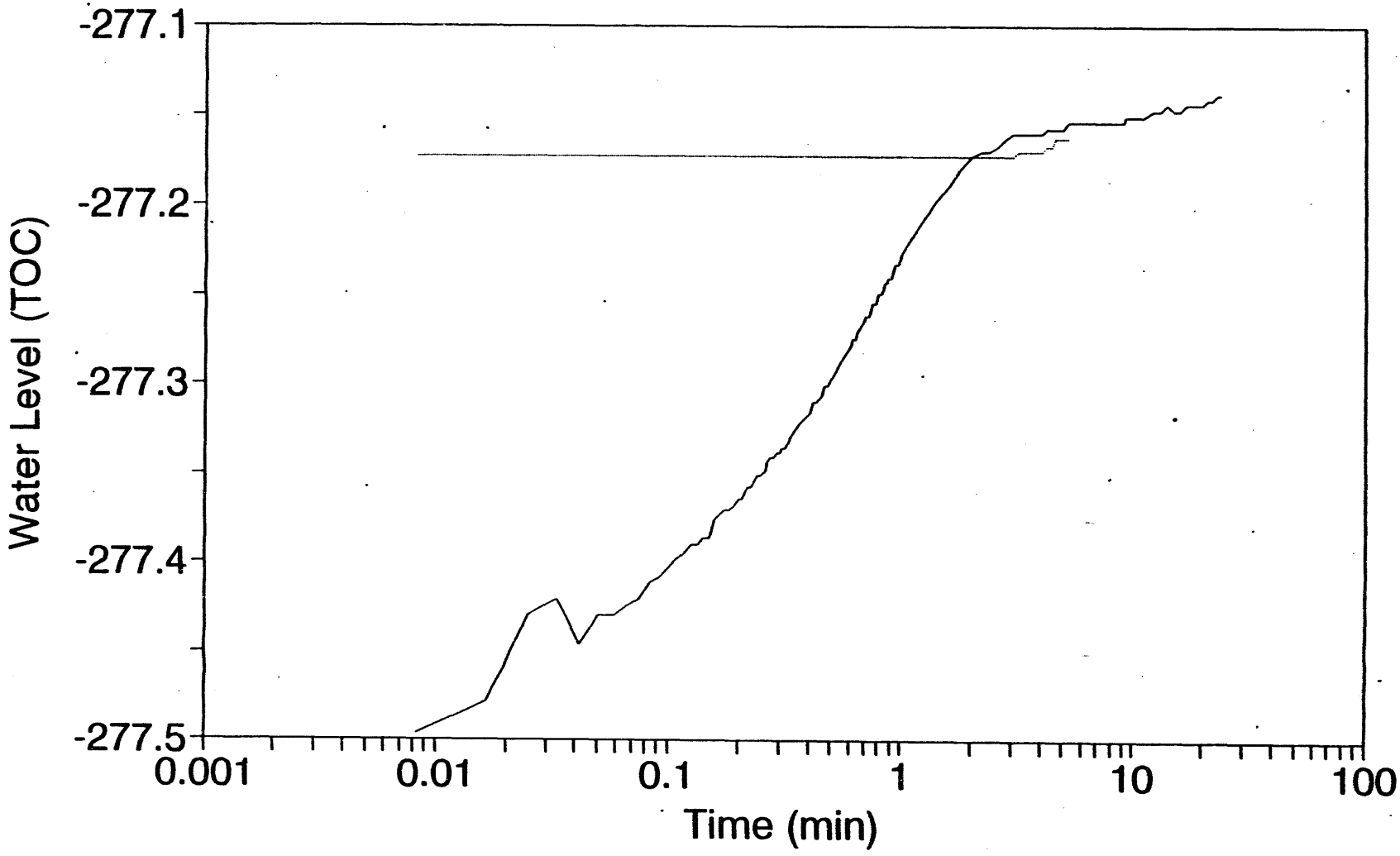
299-W12-1 Slug Withdrawal

0.8833	0.01472	277.240	-277.240
0.9000	0.01500	277.240	-277.240
0.9166	0.01528	277.236	-277.236
0.9333	0.01556	277.233	-277.233
0.9500	0.01583	277.233	-277.233
0.9666	0.01611	277.233	-277.233
0.9833	0.01639	277.230	-277.230
1.00	0.01667	277.227	-277.227
1.20	0.02000	277.211	-277.211
1.40	0.02333	277.198	-277.198
1.60	0.02667	277.189	-277.189
1.80	0.03000	277.179	-277.179
2.00	0.03333	277.173	-277.173
2.20	0.03667	277.170	-277.170
2.40	0.04000	277.170	-277.170
2.60	0.04333	277.167	-277.167
2.80	0.04667	277.163	-277.163
3.00	0.05000	277.160	-277.160
3.20	0.05333	277.160	-277.160
3.40	0.05667	277.160	-277.160
3.60	0.06000	277.160	-277.160
3.80	0.06333	277.160	-277.160
4.00	0.06667	277.160	-277.160
4.20	0.07000	277.157	-277.157
4.40	0.07333	277.157	-277.157
4.60	0.07667	277.157	-277.157
4.80	0.08000	277.157	-277.157
5.00	0.08333	277.157	-277.157
5.20	0.08667	277.154	-277.154
5.40	0.09000	277.154	-277.154
5.60	0.09333	277.154	-277.154
5.80	0.09667	277.154	-277.154
6.00	0.10000	277.154	-277.154
6.20	0.10333	277.154	-277.154
6.40	0.10667	277.154	-277.154
6.60	0.11000	277.154	-277.154
6.80	0.11333	277.154	-277.154
7.00	0.11667	277.154	-277.154
7.20	0.12000	277.154	-277.154
7.40	0.12333	277.154	-277.154
7.60	0.12667	277.154	-277.154
7.80	0.13000	277.154	-277.154

299-W12-1 Slug Withdrawal

8.00	0.13333	277.154	-277.154
8.20	0.13667	277.154	-277.154
8.40	0.14000	277.154	-277.154
8.60	0.14333	277.154	-277.154
8.80	0.14667	277.154	-277.154
9.00	0.15000	277.154	-277.154
9.20	0.15333	277.151	-277.151
9.40	0.15667	277.151	-277.151
9.60	0.16000	277.151	-277.151
9.80	0.16333	277.151	-277.151
10.00	0.16667	277.151	-277.151
11.00	0.18333	277.151	-277.151
12.00	0.20000	277.147	-277.147
13.00	0.21667	277.147	-277.147
14.00	0.23333	277.144	-277.144
15.00	0.25000	277.147	-277.147
16.00	0.26667	277.147	-277.147
17.00	0.28333	277.144	-277.144
18.00	0.30000	277.144	-277.144
19.00	0.31667	277.144	-277.144
20.00	0.33333	277.144	-277.144
21.00	0.35000	277.141	-277.141
22.00	0.36667	277.141	-277.141
23.00	0.38333	277.138	-277.138
24.00	0.40000	277.138	-277.138

299-W12-1 Slug Withdrawal
12-Aug-93



Slug Withdrawal — Baseline

APPENDIX D

299-W12-1 PUMP TEST DATA

BOREHOLE TEST INFORMATION

Borehole 299-W12-1 Borehole Diameter 8 in. Hanford Coordinates N/A

Perforated interval 276.26'-306.64' SWL 305.43' Test Type: Constant Discharge

Borehole Depth: 306.64' Instruction Used: WHC-CM-7-7 (EII 10.1)

EQUIPMENT

NAME	DESCRIPTION
Electric Sounder	Solinst s/n: ET-4 Calibration due: 1-30-94
Data Logger	In-Situ Inc. s/n: 2K-521 10 ea x 10
Pressure Transducer	In-Situ Inc. s/n: 2044DE Calibration due: 03-11-94
Mechanical Pump	Grundfos 1 1/2 HP
Steel Measuring Tape	300' Graduated Steel Tape

MEASUREMENT DATUM

Control Datum: Top of Casing (TOC) 8"

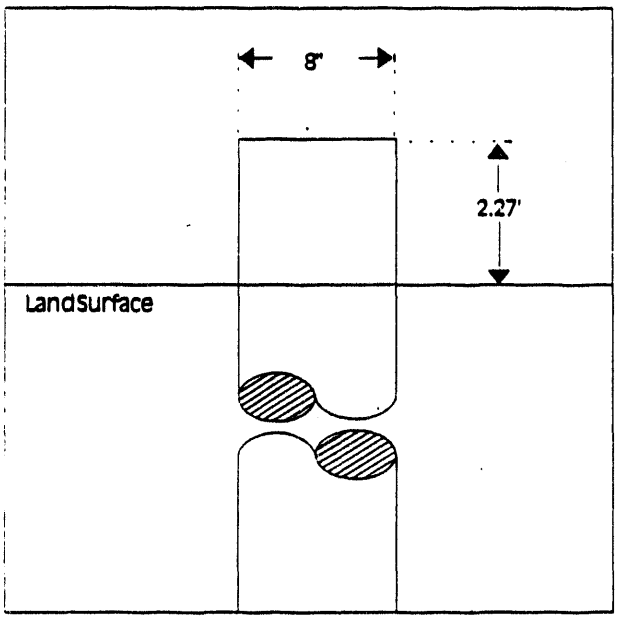
Elevation: N/A

Electric Sounder: TOC 8"

Steel Tape: TOC 8"

Pressure Transducer: TOC 8"

Well Head Diagram



COMMENTS

Step drawdown test performed on 09-29-94 to establish desired flowrate.

Recorded by: R. S. Edrington Date: 12-29-93

Sign and Print Name

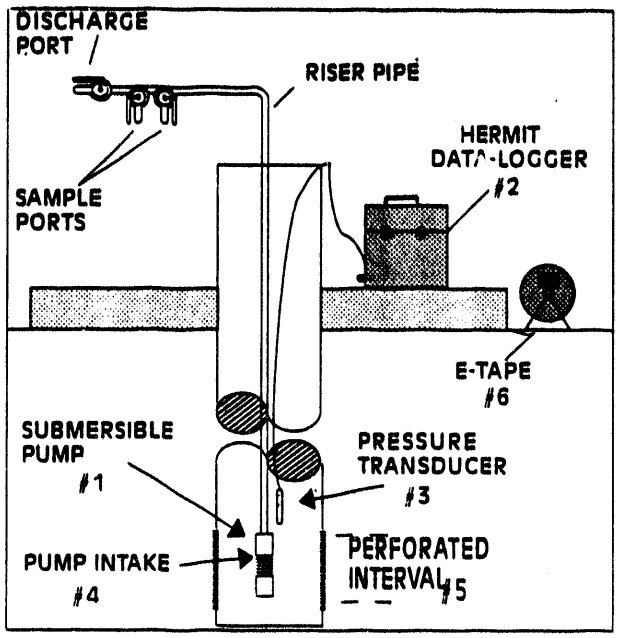
EQUIPMENT CONFIGURATION AND WELL HEAD DIAGRAM

Page 1 of 1

WELL DESIGNATION 299-W12-1 Well Depth 306.64' TOC 8"

Equipment Configuration Diagram

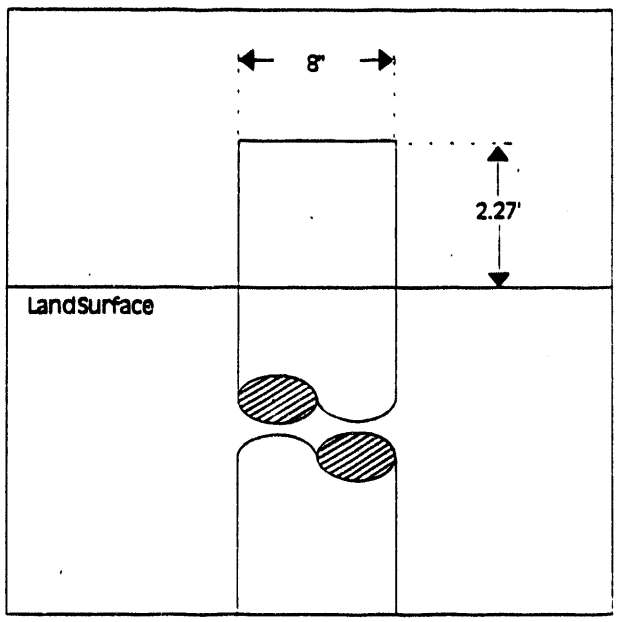
Item	Description
#1	1.5 HP Grundfos submersible
#2	Data Logger 2K-521
#3	In-Situ Inc s/n 2044DE (cal. 3-11-94)
#4	305.43' TOC 8"
#5	276.26'-306.64' Btoc8"
#6	Solinst s/n: ET-4 (cal. 1-30-94)



Comments:

Step Drawdown test performed on 09-29-94

Well Head Diagram



Signature RSEdrington Date 11-09-93

A-6000-417 (08/89)

DRAWDOWN/RECOVERY

Page 1 of

Well Designation: 299-W12-1 Date: 09-30-93

Well Depth: 306.64 TOC 8" Perforated Interval: 276.26'-306.64' TOC 8"

Pumping Method: Constant Discharge/Mechanical

Equipment Used to Measure Water Level: E.Tape/Transducer S.N. ET-4/2044DE Calibration Due: 1-30-94/03-11-94

Equipment Used to Measure Flow: Rotometer* S.N.: N.A. Calibration Due: N.A.

Measuring Point: Top of Casing (8") Pump Start Time: 0405 Pump Stop Time: 2105

Time		Water Level		Discharge
Date	Time	Reading Units:	Water Level Units:	Reading Units: 7 gpm
				*Checked by Bucket Method
	See Attached Data			
			See Attached Data	

Recorded by: R.S.Edrington Date: 12-28-93

Sign and Print Name

BD-6000-402(03/90)

Association for Information and Image Management
1100 Wayne Avenue, Suite 1100
Silver Spring, Maryland 20910
301/587-8202

Centimeter

Inches

MANUFACTURED TO AIIM STANDARDS
BY APPLIED IMAGE, INC.

2 of 3

299-W12-1 Extend Pump Test Drawdown

299-W12-1
Extended Pump Test

Hermit 2K-521
Start time: 04:05 09/30/93
SWL:277.23'
Test# 8: Drawdown
Pump Rate: 7 gpm

Time:min	D-T-W:Ft	d(WL):Ft	Up Stream	Down Stream	Difference	Barometri PSIA	Barometri In. Hg
0.0000	277.230	0.000	5.950	6.272	0.322	14.275	29.064
0.0083	277.439	0.209	6.891	6.821	-0.070	14.275	29.064
0.0166	277.398	0.168	6.897	7.261	0.364	14.275	29.064
0.0250	277.414	0.184	9.451	9.601	0.150	14.275	29.064
0.0333	277.436	0.206	8.909	8.908	-0.001	14.275	29.064
0.0416	277.373	0.143	10.570	11.090	0.520	14.275	29.064
0.0500	277.395	0.165	12.519	12.538	0.019	14.275	29.064
0.0583	277.335	0.105	11.510	11.831	0.321	14.275	29.064
0.0666	277.331	0.101	14.084	14.522	0.438	14.274	29.062
0.0750	277.312	0.082	14.503	14.268	-0.235	14.275	29.064
0.0833	277.322	0.092	14.702	15.146	0.444	14.274	29.062
0.0916	277.373	0.143	17.606	17.555	-0.051	14.275	29.064
0.1000	277.300	0.070	16.192	16.196	0.004	14.275	29.064
0.1083	277.284	0.054	18.512	19.188	0.676	14.275	29.064
0.1166	277.265	0.035	20.695	20.671	-0.024	14.275	29.064
0.1250	277.287	0.057	18.951	19.168	0.217	14.275	29.064
0.1333	277.186	-0.044	21.759	22.153	0.394	14.276	29.066
0.1416	277.294	0.064	23.228	23.087	-0.141	14.275	29.064
0.1500	277.183	-0.047	22.589	23.100	0.511	14.275	29.064
0.1583	277.208	-0.022	25.891	25.852	-0.039	14.275	29.064
0.1666	277.240	0.010	29.385	27.095	-2.290	14.275	29.064
0.1750	277.158	-0.072	29.982	27.287	-2.695	14.275	29.064
0.1833	277.214	-0.016	31.568	28.563	-3.005	14.275	29.064
0.1916	277.167	-0.063	33.058	29.325	-3.733	14.276	29.066
0.2000	277.132	-0.098	33.517	30.567	-2.950	14.275	29.064
0.2083	277.177	-0.053	34.424	31.288	-3.136	14.275	29.064
0.2166	277.116	-0.114	34.300	30.609	-3.691	14.275	29.064
0.2250	277.142	-0.088	34.437	31.864	-2.573	14.275	29.064
0.2333	277.142	-0.088	35.268	32.036	-3.232	14.275	29.064
0.2416	277.079	-0.151	35.158	32.173	-2.985	14.275	29.064
0.2500	277.104	-0.126	35.899	32.805	-3.094	14.275	29.064
0.2583	277.116	-0.114	36.483	33.093	-3.390	14.275	29.064

299-W12-1 Extend Pump Test Drawdown

0.2666	277.047	-0.183	34.279	30.197	-4.082	14.276	29.066
0.2750	277.066	-0.164	31.616	27.802	-3.814	14.276	29.066
0.2833	277.066	-0.164	31.046	27.410	-3.636	14.275	29.064
0.2916	277.037	-0.193	32.453	28.454	-3.999	14.275	29.064
0.3000	277.028	-0.202	30.676	25.358	-5.318	14.275	29.064
0.3083	276.987	-0.243	30.360	26.594	-3.766	14.275	29.064
0.3166	277.006	-0.224	32.069	30.231	-1.838	14.275	29.064
0.3250	277.022	-0.208	32.927	30.904	-2.023	14.276	29.066
0.3333	276.965	-0.265	33.641	30.986	-2.655	14.275	29.064
0.3500	276.943	-0.287	34.712	32.256	-2.456	14.275	29.064
0.3666	276.965	-0.265	37.952	34.376	-3.576	14.275	29.064
0.3833	276.927	-0.303	36.476	32.688	-3.788	14.275	29.064
0.4000	276.908	-0.322	35.625	32.990	-2.635	14.275	29.064
0.4166	276.930	-0.300	38.336	35.063	-3.273	14.275	29.064
0.4333	276.870	-0.360	36.668	34.273	-2.395	14.274	29.062
0.4500	276.851	-0.379	35.041	33.189	-1.852	14.274	29.062
0.4666	276.870	-0.360	36.840	34.424	-2.416	14.274	29.062
0.4833	276.816	-0.414	36.785	34.198	-2.587	14.274	29.062
0.5000	276.826	-0.404	35.899	32.283	-3.616	14.274	29.062
0.5166	276.826	-0.404	38.089	34.568	-3.521	14.274	29.062
0.5333	276.800	-0.430	36.311	33.621	-2.690	14.274	29.062
0.5500	276.804	-0.426	37.705	34.486	-3.219	14.274	29.062
0.5666	276.769	-0.461	37.622	34.864	-2.758	14.274	29.062
0.5833	276.759	-0.471	37.780	35.124	-2.656	14.274	29.062
0.6000	276.769	-0.461	38.178	34.994	-3.184	14.274	29.062
0.6166	276.737	-0.493	36.208	32.914	-3.294	14.274	29.062
0.6333	276.756	-0.474	37.842	34.685	-3.157	14.275	29.064
0.6500	276.702	-0.528	37.375	34.527	-2.848	14.275	29.064
0.6666	276.728	-0.502	36.160	33.676	-2.484	14.275	29.064
0.6833	276.718	-0.512	37.197	35.069	-2.128	14.275	29.064
0.7000	276.683	-0.547	36.929	34.349	-2.580	14.275	29.064
0.7166	276.699	-0.531	37.334	34.459	-2.875	14.274	29.062
0.7333	276.658	-0.572	37.108	34.809	-2.299	14.275	29.064
0.7500	276.645	-0.585	35.213	33.264	-1.949	14.275	29.064
0.7666	276.639	-0.591	38.130	35.056	-3.074	14.275	29.064
0.7833	276.627	-0.603	36.558	33.443	-3.115	14.275	29.064
0.8000	276.639	-0.591	36.689	34.150	-2.539	14.275	29.064
0.8166	276.614	-0.616	38.178	35.866	-2.312	14.275	29.064
0.8333	276.614	-0.616	36.503	33.676	-2.827	14.274	29.062
0.8500	276.563	-0.667	37.643	34.822	-2.821	14.275	29.064
0.8666	276.611	-0.619	37.657	35.063	-2.594	14.275	29.064
0.8833	276.560	-0.670	37.650	34.692	-2.958	14.275	29.064

299-W12-1 Extend Pump Test Drawdown

0.9000	276.560	-0.670	38.027	34.562	-3.465	14.275	29.064
0.9166	276.538	-0.692	37.581	34.383	-3.198	14.275	29.064
0.9333	276.560	-0.670	36.936	34.939	-1.997	14.275	29.064
0.9500	276.519	-0.711	37.341	34.610	-2.731	14.274	29.062
0.9666	276.538	-0.692	38.686	35.268	-3.418	14.275	29.064
0.9833	276.522	-0.708	37.629	34.507	-3.122	14.275	29.064
1.00	276.522	-0.708	37.615	34.699	-2.916	14.274	29.062
1.20	276.367	-0.863	36.105	33.525	-2.580	14.276	29.066
1.40	276.310	-0.920	38.563	35.667	-2.896	14.276	29.066
1.60	276.219	-1.011	39.551	36.511	-3.040	14.277	29.068
1.80	276.130	-1.100	38.707	35.591	-3.116	14.275	29.064
2.00	276.048	-1.182	37.540	34.802	-2.738	14.275	29.064
2.20	276.016	-1.214	37.677	34.740	-2.937	14.276	29.066
2.40	275.899	-1.331	31.671	27.980	-3.691	14.276	29.066
2.60	275.786	-1.444	31.815	28.028	-3.787	14.276	29.066
2.80	275.770	-1.460	32.653	29.106	-3.547	14.274	29.062
3.00	275.738	-1.492	34.266	30.904	-3.362	14.275	29.064
3.20	275.707	-1.523	34.444	31.130	-3.314	14.276	29.066
3.40	275.662	-1.568	34.561	30.917	-3.644	14.276	29.066
3.60	275.672	-1.558	38.508	35.564	-2.944	14.276	29.066
3.80	275.675	-1.555	35.618	32.173	-3.445	14.276	29.066
4.00	275.618	-1.612	36.469	33.285	-3.184	14.275	29.064
4.20	275.662	-1.568	37.506	34.342	-3.164	14.275	29.064
4.40	275.685	-1.545	38.659	35.516	-3.143	14.275	29.064
4.60	275.653	-1.577	37.231	34.212	-3.019	14.275	29.064
4.80	275.666	-1.564	37.519	34.733	-2.786	14.275	29.064
5.00	275.675	-1.555	37.396	34.747	-2.649	14.276	29.066
5.20	275.662	-1.568	36.730	33.745	-2.985	14.275	29.064
5.40	275.694	-1.536	37.361	35.371	-1.990	14.275	29.064
5.60	275.650	-1.580	34.472	32.262	-2.210	14.275	29.064
5.80	275.666	-1.564	38.439	35.399	-3.040	14.275	29.064
6.00	275.656	-1.574	37.773	34.253	-3.520	14.275	29.064
6.20	275.672	-1.558	36.057	33.663	-2.394	14.275	29.064
6.40	275.669	-1.561	37.190	34.520	-2.670	14.275	29.064
6.60	275.697	-1.533	36.867	33.978	-2.889	14.275	29.064
6.80	275.656	-1.574	37.224	34.308	-2.916	14.275	29.064
7.00	275.681	-1.549	38.734	35.975	-2.759	14.276	29.066
7.20	275.662	-1.568	36.634	33.793	-2.841	14.276	29.066
7.40	275.659	-1.571	36.400	33.361	-3.039	14.275	29.064
7.60	275.666	-1.564	37.554	34.905	-2.649	14.274	29.062
7.80	275.672	-1.558	36.888	34.301	-2.587	14.274	29.062
8.00	275.643	-1.587	36.991	34.157	-2.834	14.275	29.064

299-W12-1 Extend Pump Test Drawdown

8.20	275.669	-1.561	36.222	33.717	-2.505	14.274	29.062
8.40	275.650	-1.580	35.295	32.317	-2.978	14.275	29.064
8.60	275.662	-1.568	36.840	33.724	-3.116	14.274	29.062
8.80	275.656	-1.574	38.419	35.509	-2.910	14.275	29.064
9.00	275.631	-1.599	36.991	34.054	-2.937	14.274	29.062
9.20	275.628	-1.602	36.325	33.107	-3.218	14.274	29.062
9.40	275.669	-1.561	36.716	33.587	-3.129	14.274	29.062
9.60	275.643	-1.587	37.272	34.095	-3.177	14.275	29.064
9.80	275.634	-1.596	36.263	33.978	-2.285	14.275	29.064
10.0	275.640	-1.590	36.956	33.882	-3.074	14.276	29.066
12.0	275.615	-1.615	37.224	34.212	-3.012	14.276	29.066
14.0	275.628	-1.602	37.746	34.582	-3.164	14.277	29.068
16.0	275.628	-1.602	37.389	34.328	-3.061	14.277	29.068
18.0	275.583	-1.647	37.300	34.452	-2.848	14.279	29.072
20.0	275.606	-1.624	36.558	33.834	-2.724	14.276	29.066
22.0	275.593	-1.637	36.222	33.443	-2.779	14.276	29.066
24.0	275.571	-1.659	34.822	32.194	-2.628	14.279	29.072
26.0	275.577	-1.653	36.050	33.793	-2.257	14.279	29.072
28.0	275.555	-1.675	36.373	33.738	-2.635	14.279	29.072
30.0	275.577	-1.653	36.064	33.717	-2.347	14.279	29.072
32.0	275.574	-1.656	35.844	33.889	-1.955	14.280	29.074
34.0	275.542	-1.688	37.828	35.461	-2.367	14.279	29.072
36.0	275.549	-1.681	36.167	34.191	-1.976	14.279	29.072
38.0	275.545	-1.685	35.941	32.839	-3.102	14.277	29.068
40.0	275.545	-1.685	37.650	34.747	-2.903	14.277	29.068
42.0	275.539	-1.691	36.304	33.395	-2.909	14.277	29.068
44.0	275.555	-1.675	36.009	33.429	-2.580	14.275	29.064
46.0	275.568	-1.662	36.510	33.045	-3.465	14.274	29.062
48.0	275.549	-1.681	37.217	33.985	-3.232	14.274	29.062
50.0	275.542	-1.688	35.144	32.077	-3.067	14.274	29.062
52.0	275.536	-1.694	35.947	33.642	-2.305	14.274	29.062
54.0	275.542	-1.688	35.247	32.695	-2.552	14.274	29.062
56.0	275.552	-1.678	34.657	31.707	-2.950	14.274	29.062
58.0	275.545	-1.685	38.879	35.735	-3.144	14.274	29.062
60.0	275.533	-1.697	36.332	33.704	-2.628	14.273	29.060
62.0	275.514	-1.716	36.284	33.395	-2.889	14.276	29.066
64.0	275.536	-1.694	34.492	32.249	-2.243	14.277	29.068
66.0	275.508	-1.722	34.760	32.139	-2.621	14.279	29.072
68.0	275.508	-1.722	36.030	33.560	-2.470	14.279	29.072
70.0	275.526	-1.704	37.547	33.965	-3.582	14.279	29.072
72.0	275.511	-1.719	37.046	34.164	-2.882	14.280	29.074
74.0	275.517	-1.713	35.439	33.518	-1.921	14.279	29.072

299-W12-1 Extend Pump Test Drawdown

76.0	275.489	-1.741	36.284	33.896	-2.388	14.279	29.072
78.0	275.489	-1.741	37.643	34.973	-2.670	14.280	29.074
80.0	275.520	-1.710	35.453	32.839	-2.614	14.279	29.072
82.0	275.495	-1.735	36.270	33.512	-2.758	14.280	29.074
84.0	275.508	-1.722	35.089	32.022	-3.067	14.279	29.072
86.0	275.511	-1.719	36.709	33.786	-2.923	14.279	29.072
88.0	275.514	-1.716	36.744	33.834	-2.910	14.280	29.074
90.0	275.504	-1.726	35.707	33.264	-2.443	14.281	29.076
92.0	275.511	-1.719	37.794	34.294	-3.500	14.280	29.074
94.0	275.485	-1.745	34.101	32.160	-1.941	14.282	29.078
96.0	275.504	-1.726	36.146	33.306	-2.840	14.283	29.080
98.0	275.508	-1.722	34.760	31.638	-3.122	14.284	29.082
100.0	275.482	-1.748	34.918	31.851	-3.067	14.285	29.084
110.0	275.476	-1.754	36.181	33.251	-2.930	14.282	29.078
120.0	275.444	-1.786	35.796	33.011	-2.785	14.283	29.080
130.0	275.476	-1.754	36.558	33.120	-3.438	14.286	29.086
140.0	275.432	-1.798	36.462	33.608	-2.854	14.289	29.092
150.0	275.451	-1.779	35.687	33.765	-1.922	14.289	29.092
160.0	275.403	-1.827	36.105	33.422	-2.683	14.292	29.099
170.0	275.432	-1.798	36.675	34.081	-2.594	14.293	29.101
180.0	275.381	-1.849	35.618	32.894	-2.724	14.297	29.109
190.0	275.400	-1.830	35.803	33.704	-2.099	14.301	29.117
200.0	275.368	-1.862	35.858	33.175	-2.683	14.301	29.117
210.0	275.356	-1.874	36.160	33.415	-2.745	14.303	29.121
220.0	275.372	-1.858	35.000	31.748	-3.252	14.305	29.125
230.0	275.353	-1.877	36.490	33.779	-2.711	14.306	29.127
240.0	275.324	-1.906	37.121	33.745	-3.076	14.308	29.131
250.0	275.343	-1.887	37.609	34.939	-2.670	14.309	29.133
260.0	275.346	-1.884	35.817	33.745	-2.072	14.310	29.135
270.0	275.331	-1.899	36.229	33.141	-3.088	14.311	29.137
280.0	275.324	-1.906	35.076	33.065	-2.011	14.313	29.141
290.0	275.356	-1.874	37.190	34.466	-2.724	14.315	29.145
300.0	275.349	-1.881	34.197	31.569	-2.628	14.320	29.156
310.0	275.343	-1.887	38.281	35.193	-3.088	14.322	29.160
320.0	275.299	-1.931	34.918	32.866	-2.052	14.325	29.166
330.0	275.340	-1.890	37.993	35.481	-2.512	14.328	29.172
340.0	275.302	-1.928	37.478	34.802	-2.676	14.329	29.174
350.0	275.270	-1.960	35.391	32.386	-3.005	14.332	29.180
360.0	275.229	-2.001	35.144	32.475	-2.669	14.331	29.178
370.0	275.255	-1.975	35.089	32.695	-2.394	14.332	29.180
380.0	275.236	-1.994	35.920	32.468	-3.452	14.332	29.180
390.0	275.251	-1.979	35.735	32.763	-2.972	14.335	29.186

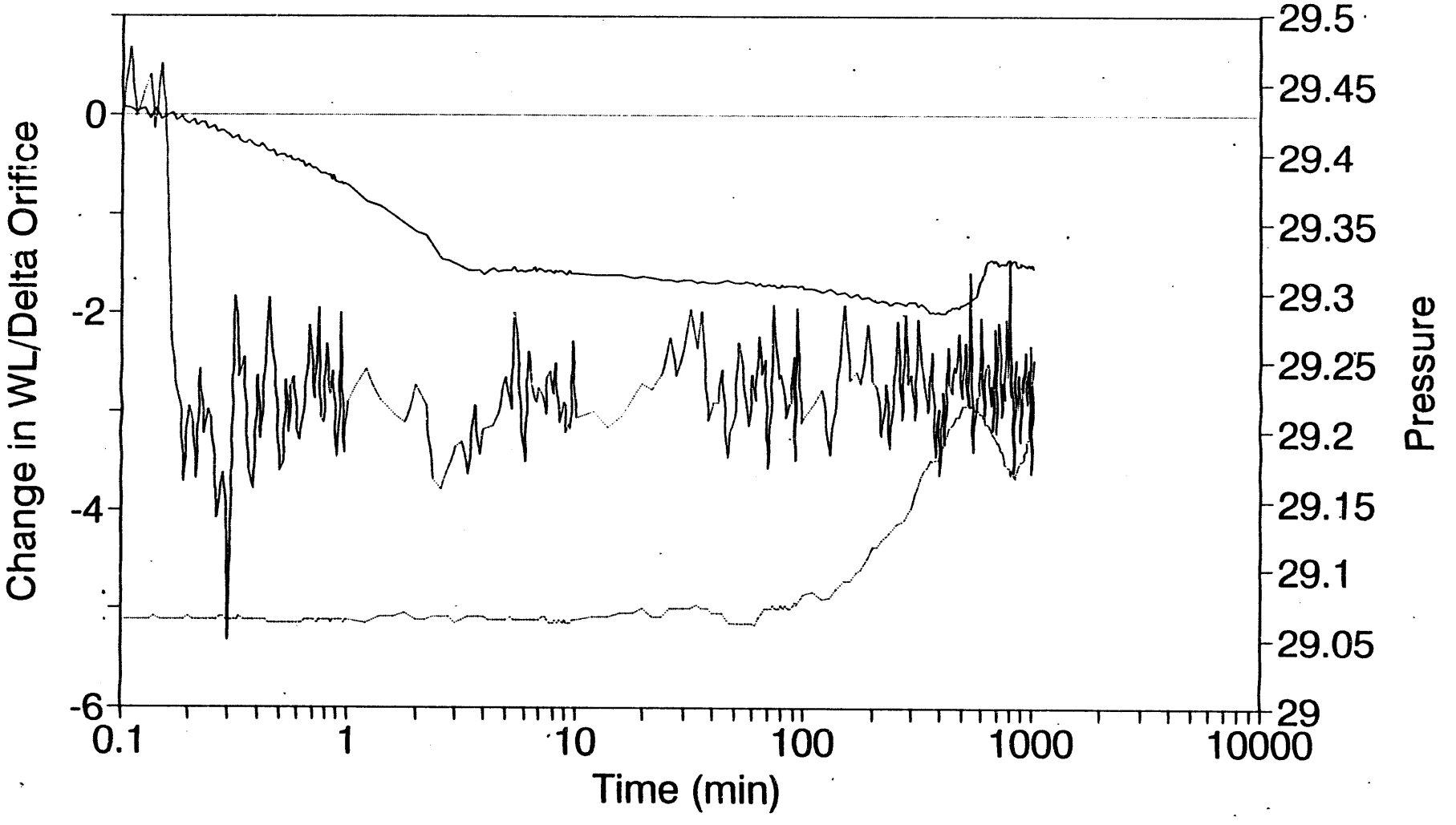
299-W12-1 Extend Pump Test Drawdown

400.0	275.233	-1.997	36.016	32.372	-3.644	14.337	29.190
410.0	275.239	-1.991	35.886	33.086	-2.800	14.339	29.194
420.0	275.229	-2.001	36.661	33.340	-3.321	14.341	29.198
430.0	275.261	-1.969	36.654	34.301	-2.353	14.343	29.202
440.0	275.261	-1.969	36.002	33.285	-2.717	14.344	29.204
450.0	275.305	-1.925	34.465	31.652	-2.813	14.345	29.206
460.0	275.286	-1.944	35.254	32.715	-2.539	14.347	29.210
470.0	275.296	-1.934	35.474	32.887	-2.587	14.347	29.210
480.0	275.286	-1.944	34.211	32.009	-2.202	14.349	29.215
490.0	275.308	-1.922	33.552	30.917	-2.635	14.351	29.219
500.0	275.308	-1.922	34.424	31.562	-2.862	14.351	29.219
510.0	275.331	-1.899	33.243	30.938	-2.305	14.352	29.221
520.0	275.346	-1.884	35.680	32.873	-2.807	14.351	29.219
530.0	275.353	-1.877	36.449	33.491	-2.958	14.351	29.219
540.0	275.362	-1.868	34.451	32.873	-1.578	14.351	29.219
550.0	275.375	-1.855	35.693	33.223	-2.470	14.350	29.217
560.0	275.375	-1.855	36.215	32.812	-3.403	14.349	29.215
570.0	275.413	-1.817	36.455	33.587	-2.868	14.349	29.215
580.0	275.498	-1.732	35.522	32.674	-2.848	14.348	29.213
590.0	275.549	-1.681	35.838	33.017	-2.821	14.348	29.213
600.0	275.577	-1.653	34.822	32.777	-2.045	14.347	29.210
610.0	275.615	-1.615	36.483	33.765	-2.718	14.347	29.210
620.0	275.637	-1.593	36.586	33.546	-3.040	14.345	29.206
630.0	275.722	-1.508	35.460	32.887	-2.573	14.345	29.206
640.0	275.764	-1.466	36.641	34.136	-2.505	14.344	29.204
650.0	275.764	-1.466	36.181	33.628	-2.553	14.343	29.202
660.0	275.783	-1.447	34.835	31.892	-2.943	14.342	29.200
670.0	275.776	-1.454	35.254	32.516	-2.738	14.341	29.198
680.0	275.751	-1.479	34.499	31.322	-3.177	14.340	29.196
690.0	275.783	-1.447	33.435	31.274	-2.161	14.338	29.192
700.0	275.745	-1.485	37.073	33.862	-3.211	14.338	29.192
710.0	275.770	-1.460	35.378	32.818	-2.560	14.338	29.192
720.0	275.716	-1.514	34.005	31.912	-2.093	14.335	29.186
730.0	275.738	-1.492	34.019	31.748	-2.271	14.335	29.186
740.0	275.757	-1.473	35.652	32.606	-3.046	14.333	29.182
750.0	275.735	-1.495	34.197	31.501	-2.696	14.330	29.176
760.0	275.757	-1.473	33.861	31.130	-2.731	14.330	29.176
770.0	275.741	-1.489	35.838	32.963	-2.875	14.330	29.176
780.0	275.729	-1.501	34.101	32.050	-2.051	14.329	29.174
790.0	275.776	-1.454	34.671	32.022	-2.649	14.329	29.174
800.0	275.776	-1.454	33.531	32.057	-1.474	14.326	29.168
810.0	275.735	-1.495	34.334	31.494	-2.840	14.328	29.172

299-W12-1 Extend Pump Test Drawdown

820.0	275.757	-1.473	33.641	31.130	-2.511	14.328	29.172
830.0	275.767	-1.463	34.108	31.267	-2.841	14.326	29.168
840.0	275.776	-1.454	36.153	32.530	-3.623	14.325	29.166
850.0	275.773	-1.457	33.634	31.158	-2.476	14.326	29.168
860.0	275.757	-1.473	35.268	32.475	-2.793	14.328	29.172
870.0	275.707	-1.523	36.359	33.367	-2.992	14.330	29.176
880.0	275.719	-1.511	34.657	32.043	-2.614	14.331	29.178
890.0	275.713	-1.517	35.302	32.221	-3.081	14.331	29.178
900.0	275.751	-1.479	34.053	30.739	-3.314	14.331	29.178
910.0	275.732	-1.498	36.579	33.827	-2.752	14.332	29.180
920.0	275.732	-1.498	34.945	32.304	-2.641	14.334	29.184
930.0	275.738	-1.492	36.545	33.752	-2.793	14.335	29.186
940.0	275.713	-1.517	36.407	34.013	-2.394	14.335	29.186
950.0	275.722	-1.508	36.414	33.491	-2.923	14.338	29.192
960.0	275.700	-1.530	35.783	32.935	-2.848	14.339	29.194
970.0	275.729	-1.501	33.689	31.110	-2.579	14.340	29.196
980.0	275.716	-1.514	35.275	32.043	-3.232	14.341	29.198
990.0	275.700	-1.530	35.240	32.901	-2.339	14.340	29.196
1000.0	275.732	-1.498	35.343	31.707	-3.636	14.345	29.206
1010.0	275.685	-1.545	35.625	33.148	-2.477	14.347	29.210

299-W12-1 Pump test
30-Sept-93



Drawdown — Orifice/Difference — Barometric

299-W12-1 Pump Test Recovery

0.2666	0.0044	-2.605	29.20642
0.2750	0.0046	-2.561	29.20642
0.2833	0.0047	-2.602	29.20642
0.2916	0.0049	-2.434	29.20642
0.3000	0.0050	-2.564	29.21253
0.3083	0.0051	-2.504	29.21456
0.3166	0.0053	-2.390	29.21253
0.3250	0.0054	-2.434	29.21456
0.3333	0.0056	-2.412	29.21456
0.3500	0.0058	-2.380	29.21456
0.3666	0.0061	-2.358	29.21456
0.3833	0.0064	-2.330	29.21456
0.4000	0.0067	-2.308	29.21456
0.4166	0.0069	-2.286	29.21456
0.4333	0.0072	-2.257	29.21253
0.4500	0.0075	-2.232	29.21253
0.4666	0.0078	-2.210	29.20642
0.4833	0.0081	-2.184	29.20642
0.5000	0.0083	-2.162	29.20642
0.5166	0.0086	-2.137	29.20642
0.5333	0.0089	-2.115	29.21049
0.5500	0.0092	-2.093	29.20642
0.5666	0.0094	-2.067	29.20642
0.5833	0.0097	-2.045	29.20642
0.6000	0.0100	-2.023	29.20642
0.6166	0.0103	-1.998	29.21049
0.6333	0.0106	-1.976	29.20642
0.6500	0.0108	-1.954	29.20642
0.6666	0.0111	-1.931	29.21049
0.6833	0.0114	-1.909	29.20642
0.7000	0.0117	-1.887	29.20642
0.7166	0.0119	-1.865	29.20642
0.7333	0.0122	-1.843	29.20642
0.7500	0.0125	-1.818	29.20642
0.7666	0.0128	-1.799	29.21049
0.7833	0.0131	-1.780	29.21049
0.8000	0.0133	-1.758	29.20642
0.8166	0.0136	-1.736	29.20642
0.8333	0.0139	-1.713	29.20642
0.8500	0.0142	-1.691	29.20642
0.8666	0.0144	-1.669	29.20642
0.8833	0.0147	-1.650	29.20642

299-W12-1 Pump Test Recovery

0.9000	0.0150	-1.634	29.20642
0.9166	0.0153	-1.615	29.20642
0.9333	0.0156	-1.596	29.20642
0.9500	0.0158	-1.577	29.21049
0.9666	0.0161	-1.562	29.20642
0.9833	0.0164	-1.546	29.20642
1.0	0.0167	-1.527	29.20642
1.2	0.0200	-1.356	29.20642
1.4	0.0233	-1.236	29.20642
1.6	0.0267	-1.138	29.20642
1.8	0.0300	-1.059	29.21049
2.0	0.0333	-0.993	29.20642
2.2	0.0367	-0.936	29.20642
2.4	0.0400	-0.888	29.20642
2.6	0.0433	-0.844	29.20642
2.8	0.0467	-0.806	29.21049
3.0	0.0500	-0.771	29.21049
3.2	0.0533	-0.743	29.20642
3.4	0.0567	-0.721	29.20642
3.6	0.0600	-0.699	29.20642
3.8	0.0633	-0.680	29.20642
4.0	0.0667	-0.664	29.20642
4.2	0.0700	-0.648	29.20642
4.4	0.0733	-0.639	29.20642
4.6	0.0767	-0.629	29.20642
4.8	0.0800	-0.620	29.20642
5.0	0.0833	-0.613	29.20642
5.2	0.0867	-0.604	29.20642
5.4	0.0900	-0.601	29.20642
5.6	0.0933	-0.594	29.20642
5.8	0.0967	-0.588	29.20642
6.0	0.1000	-0.585	29.20642
6.2	0.1033	-0.582	29.20642
6.4	0.1067	-0.575	29.20642
6.6	0.1100	-0.572	29.20642
6.8	0.1133	-0.569	29.21049
7.0	0.1167	-0.566	29.20642
7.2	0.1200	-0.563	29.20642
7.4	0.1233	-0.560	29.20642
7.6	0.1267	-0.560	29.20642
7.8	0.1300	-0.556	29.21049
8.0	0.1333	-0.553	29.21049

299-W12-1 Pump Test Recovery

8.2	0.1367	-0.553	29.20642
8.4	0.1400	-0.550	29.21049
8.6	0.1433	-0.550	29.21049
8.8	0.1467	-0.547	29.21049
9.0	0.1500	-0.547	29.21049
9.2	0.1533	-0.544	29.21049
9.4	0.1567	-0.544	29.21049
9.6	0.1600	-0.544	29.21049
9.8	0.1633	-0.541	29.21049
10.0	0.1667	-0.541	29.21049
12.0	0.2000	-0.528	29.21049
14.0	0.2333	-0.518	29.21253
16.0	0.2667	-0.512	29.21253
18.0	0.3000	-0.506	29.21253
20.0	0.3333	-0.500	29.21253
22.0	0.3667	-0.493	29.21253
24.0	0.4000	-0.490	29.21253
26.0	0.4333	-0.487	29.21456
28.0	0.4667	-0.484	29.21456
30.0	0.5000	-0.484	29.2166
32.0	0.5333	-0.484	29.2166
34.0	0.5667	-0.484	29.21864
36.0	0.6000	-0.481	29.21864
38.0	0.6333	-0.477	29.21864
40.0	0.6667	-0.477	29.21864
42.0	0.7000	-0.474	29.21864
44.0	0.7333	-0.474	29.21864
46.0	0.7667	-0.471	29.21864
48.0	0.8000	-0.471	29.21864
50.0	0.8333	-0.468	29.21864
52.0	0.8667	-0.468	29.21864
54.0	0.9000	-0.468	29.22067
56.0	0.9333	-0.465	29.22067
58.0	0.9667	-0.468	29.22067
60.0	1.0000	-0.465	29.22067
62.0	1.0333	-0.465	29.22271
64.0	1.0667	-0.465	29.22271
66.0	1.1000	-0.465	29.22271
68.0	1.1333	-0.465	29.22271
70.0	1.1667	-0.465	29.22271
72.0	1.2000	-0.462	29.22271
74.0	1.2333	-0.462	29.22474

299-W12-1 Pump Test Recovery

76.0	1.2667	-0.462	29.22474
78.0	1.3000	-0.462	29.22474
80.0	1.3333	-0.458	29.22474
82.0	1.3667	-0.458	29.22474
84.0	1.4000	-0.458	29.22474
86.0	1.4333	-0.458	29.22474
88.0	1.4667	-0.458	29.22474
90.0	1.5000	-0.458	29.22474
92.0	1.5333	-0.455	29.22474
94.0	1.5667	-0.455	29.22474
96.0	1.6000	-0.455	29.22474
98.0	1.6333	-0.455	29.22474
100.0	1.6667	-0.452	29.22474
110.0	1.8333	-0.449	29.22474
120.0	2.0000	-0.446	29.22678
130.0	2.1667	-0.446	29.22678
140.0	2.3333	-0.446	29.22678
150.0	2.5000	-0.439	29.22678
160.0	2.6667	-0.439	29.23085
170.0	2.8333	-0.446	29.23492
180.0	3.0000	-0.446	29.23696
190.0	3.1667	-0.446	29.23696
200.0	3.3333	-0.446	29.239
210.0	3.5000	-0.446	29.24103
220.0	3.6667	-0.443	29.239
230.0	3.8333	-0.439	29.239
240.0	4.0000	-0.443	29.239
250.0	4.1667	-0.436	29.239
260.0	4.3333	-0.439	29.24103
270.0	4.5000	-0.443	29.2451
280.0	4.6667	-0.439	29.24918
290.0	4.8333	-0.439	29.2451
300.0	5.0000	-0.436	29.24307
310.0	5.1667	-0.436	29.2451
320.0	5.3333	-0.433	29.24307
330.0	5.5000	-0.433	29.2451
340.0	5.6667	-0.430	29.2451
350.0	5.8333	-0.427	29.2451
360.0	6.0000	-0.427	29.24307
370.0	6.1667	-0.424	29.24103
380.0	6.3333	-0.424	29.24307
390.0	6.5000	-0.424	29.24103

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400.0	6.6667	-0.420	29.24307
410.0	6.8333	-0.424	29.2451
420.0	7.0000	-0.427	29.24918
430.0	7.1667	-0.427	29.24918
440.0	7.3333	-0.427	29.25121
450.0	7.5000	-0.427	29.25325
460.0	7.6667	-0.424	29.25121
470.0	7.8333	-0.424	29.24918
480.0	8.0000	-0.424	29.25121
490.0	8.1667	-0.420	29.24918
500.0	8.3333	-0.424	29.25121
510.0	8.5000	-0.424	29.25121
520.0	8.6667	-0.424	29.25325
530.0	8.8333	-0.427	29.25528
540.0	9.0000	-0.420	29.25528
550.0	9.1667	-0.424	29.25732
560.0	9.3333	-0.433	29.26343
570.0	9.5000	-0.436	29.26546
580.0	9.6667	-0.433	29.26139
590.0	9.8333	-0.427	29.25936
600.0	10.0000	-0.430	29.26139
610.0	10.1667	-0.430	29.26139
620.0	10.3333	-0.433	29.26343
630.0	10.5000	-0.436	29.26954
640.0	10.6667	-0.439	29.27157
650.0	10.8333	-0.446	29.27768
660.0	11.0000	-0.449	29.27972
670.0	11.1667	-0.455	29.28582
680.0	11.3333	-0.455	29.28582
690.0	11.5000	-0.455	29.2899
700.0	11.6667	-0.452	29.28582
710.0	11.8333	-0.458	29.29193
720.0	12.0000	-0.462	29.296
730.0	12.1667	-0.458	29.296
740.0	12.3333	-0.465	29.30211
750.0	12.5000	-0.468	29.30415
760.0	12.6667	-0.465	29.30211
770.0	12.8333	-0.468	29.30618
780.0	13.0000	-0.468	29.31026
790.0	13.1667	-0.471	29.31229
800.0	13.3333	-0.474	29.31636
810.0	13.5000	-0.477	29.3184

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820.0	13.6667	-0.474	29.3184
830.0	13.8333	-0.477	29.32044
840.0	14.0000	-0.481	29.32858
850.0	14.1667	-0.484	29.33265
860.0	14.3333	-0.487	29.33672
870.0	14.5000	-0.484	29.33469
880.0	14.6667	-0.477	29.33265
890.0	14.8333	-0.474	29.33469
900.0	15.0000	-0.468	29.33265
910.0	15.1667	-0.468	29.33469
920.0	15.3333	-0.465	29.33265
930.0	15.5000	-0.458	29.33265
940.0	15.6667	-0.449	29.33062
950.0	15.8333	-0.443	29.33062
960.0	16.0000	-0.433	29.32858
970.0	16.1667	-0.417	29.32247
980.0	16.3333	-0.398	29.3184
990.0	16.5000	-0.376	29.31636
1000.0	16.6667	-0.329	29.31433
1010.0	16.8333	-0.291	29.31229
1020.0	17.0000	-0.243	29.30618
1030.0	17.1667	-0.218	29.30415
1040.0	17.3333	-0.202	29.30211
1050.0	17.5000	-0.196	29.30008
1060.0	17.6667	-0.193	29.29804
1070.0	17.8333	-0.193	29.296
1080.0	18.0000	-0.190	29.29397
1090.0	18.1667	-0.190	29.29397
1100.0	18.3333	-0.183	29.29193
1110.0	18.5000	-0.180	29.2899
1120.0	18.6667	-0.177	29.28379
1130.0	18.8333	-0.174	29.28175
1140.0	19.0000	-0.171	29.27972
1150.0	19.1667	-0.168	29.27768
1160.0	19.3333	-0.161	29.27361
1170.0	19.5000	-0.158	29.27157
1180.0	19.6667	-0.155	29.26546
1190.0	19.8333	-0.152	29.26343
1200.0	20.0000	-0.149	29.26139
1210.0	20.1667	-0.145	29.25936
1220.0	20.3333	-0.142	29.25732
1230.0	20.5000	-0.136	29.25528

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1240.0	20.6667	-0.139	29.25732
1250.0	20.8333	-0.139	29.25936
1260.0	21.0000	-0.136	29.25732
1270.0	21.1667	-0.133	29.25528
1280.0	21.3333	-0.133	29.25528
1290.0	21.5000	-0.130	29.25528
1300.0	21.6667	-0.130	29.25325
1310.0	21.8333	-0.130	29.25325
1320.0	22.0000	-0.126	29.25325
1330.0	22.1667	-0.133	29.25732
1340.0	22.3333	-0.136	29.25936
1350.0	22.5000	-0.136	29.25936
1360.0	22.6667	-0.139	29.26343
1370.0	22.8333	-0.142	29.26546
1380.0	23.0000	-0.145	29.27157
1390.0	23.1667	-0.149	29.27361
1400.0	23.3333	-0.152	29.27564
1410.0	23.5000	-0.155	29.27768
1420.0	23.6667	-0.158	29.27972
1430.0	23.8333	-0.158	29.28175
1440.0	24.0000	-0.158	29.28175
1450.0	24.1667	-0.161	29.28379
1460.0	24.3333	-0.164	29.28379
1470.0	24.5000	-0.168	29.28582
1480.0	24.6667	-0.177	29.29397
1490.0	24.8333	-0.177	29.296
1500.0	25.0000	-0.177	29.29397
1510.0	25.1667	-0.180	29.29804
1520.0	25.3333	-0.183	29.29804
1530.0	25.5000	-0.180	29.29804
1540.0	25.6667	-0.193	29.30211
1550.0	25.8333	-0.190	29.30211
1560.0	26.0000	-0.193	29.30415
1570.0	26.1667	-0.190	29.30211
1580.0	26.3333	-0.193	29.30415
1590.0	26.5000	-0.196	29.30618
1600.0	26.6667	-0.193	29.31026
1610.0	26.8333	-0.193	29.30618
1620.0	27.0000	-0.199	29.31229
1630.0	27.1667	-0.199	29.31229
1640.0	27.3333	-0.199	29.31433
1650.0	27.5000	-0.206	29.31433

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1660.0	27.6667	-0.199	29.31433
1670.0	27.8333	-0.202	29.31433
1680.0	28.0000	-0.209	29.3184
1690.0	28.1667	-0.206	29.3184
1700.0	28.3333	-0.209	29.32044
1710.0	28.5000	-0.215	29.32247
1720.0	28.6667	-0.215	29.32247
1730.0	28.8333	-0.218	29.32858
1740.0	29.0000	-0.224	29.33062
1750.0	29.1667	-0.224	29.33062
1760.0	29.3333	-0.218	29.32858
1770.0	29.5000	-0.224	29.32858
1780.0	29.6667	-0.221	29.33062
1790.0	29.8333	-0.221	29.32858
1800.0	30.0000	-0.215	29.32451
1810.0	30.1667	-0.218	29.32858
1820.0	30.3333	-0.224	29.33062
1830.0	30.5000	-0.221	29.33265
1840.0	30.6667	-0.221	29.33062
1850.0	30.8333	-0.221	29.33265
1860.0	31.0000	-0.228	29.33469
1870.0	31.1667	-0.224	29.33469
1880.0	31.3333	-0.231	29.33876
1890.0	31.5000	-0.234	29.33876
1900.0	31.6667	-0.221	29.33265
1910.0	31.8333	-0.234	29.3408
1920.0	32.0000	-0.228	29.3408
1930.0	32.1667	-0.237	29.33876
1940.0	32.3333	-0.243	29.33876
1950.0	32.5000	-0.234	29.33672
1960.0	32.6667	-0.237	29.3408
1970.0	32.8333	-0.247	29.3408
1980.0	33.0000	-0.243	29.34283
1990.0	33.1667	-0.243	29.34487
2000.0	33.3333	-0.250	29.34894
2010.0	33.5000	-0.243	29.34894
2020.0	33.6667	-0.259	29.35301
2030.0	33.8333	-0.259	29.35708
2040.0	34.0000	-0.256	29.35912
2050.0	34.1667	-0.262	29.36319
2060.0	34.3333	-0.266	29.36523
2070.0	34.5000	-0.266	29.36523

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2080.0	34.6667	-0.269	29.3693
2090.0	34.8333	-0.262	29.37337
2100.0	35.0000	-0.266	29.37337
2110.0	35.1667	-0.272	29.37744
2120.0	35.3333	-0.269	29.37948
2130.0	35.5000	-0.272	29.38355
2140.0	35.6667	-0.272	29.38355
2150.0	35.8333	-0.272	29.38966
2160.0	36.0000	-0.269	29.38966
2170.0	36.1667	-0.275	29.39373
2180.0	36.3333	-0.269	29.3917
2190.0	36.5000	-0.266	29.38966
2200.0	36.6667	-0.269	29.39373
2210.0	36.8333	-0.272	29.39577
2220.0	37.0000	-0.272	29.39577
2230.0	37.1667	-0.269	29.3978
2240.0	37.3333	-0.272	29.39984
2250.0	37.5000	-0.269	29.3978
2260.0	37.6667	-0.266	29.3978
2270.0	37.8333	-0.262	29.3978
2280.0	38.0000	-0.259	29.3978
2290.0	38.1667	-0.256	29.39577
2300.0	38.3333	-0.253	29.39577
2310.0	38.5000	-0.250	29.3978
2320.0	38.6667	-0.250	29.39984
2330.0	38.8333	-0.247	29.39984
2340.0	39.0000	-0.243	29.39984
2350.0	39.1667	-0.240	29.39984
2360.0	39.3333	-0.237	29.39984
2370.0	39.5000	-0.234	29.3978
2380.0	39.6667	-0.228	29.39577
2390.0	39.8333	-0.224	29.39373
2400.0	40.0000	-0.218	29.3917
2410.0	40.1667	-0.212	29.38762
2420.0	40.3333	-0.206	29.38152
2430.0	40.5000	-0.199	29.37744
2440.0	40.6667	-0.193	29.37134
2450.0	40.8333	-0.187	29.3693
2460.0	41.0000	-0.183	29.36319
2470.0	41.1667	-0.177	29.36116
2480.0	41.3333	-0.168	29.35505
2490.0	41.5000	-0.168	29.35301

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2500.0	41.6667	-0.164	29.35098
2510.0	41.8333	-0.161	29.34894
2520.0	42.0000	-0.158	29.34487
2530.0	42.1667	-0.152	29.3408
2540.0	42.3333	-0.149	29.33876
2550.0	42.5000	-0.142	29.33469
2560.0	42.6667	-0.136	29.33062
2570.0	42.8333	-0.130	29.32451
2580.0	43.0000	-0.130	29.32451
2590.0	43.1667	-0.126	29.32044
2600.0	43.3333	-0.123	29.32044
2610.0	43.5000	-0.117	29.31636
2620.0	43.6667	-0.114	29.31433
2630.0	43.8333	-0.111	29.31229
2640.0	44.0000	-0.111	29.31026
2650.0	44.1667	-0.108	29.30618
2660.0	44.3333	-0.104	29.30618
2670.0	44.5000	-0.104	29.30415
2680.0	44.6667	-0.101	29.30211
2690.0	44.8333	-0.101	29.30415
2700.0	45.0000	-0.101	29.30211
2710.0	45.1667	-0.101	29.30211
2720.0	45.3333	-0.098	29.30008
2730.0	45.5000	-0.098	29.30008
2740.0	45.6667	-0.098	29.30211
2750.0	45.8333	-0.098	29.30008
2760.0	46.0000	-0.098	29.30008
2770.0	46.1667	-0.098	29.30008
2780.0	46.3333	-0.098	29.30008
2790.0	46.5000	-0.101	29.30211
2800.0	46.6667	-0.101	29.30211
2810.0	46.8333	-0.101	29.30415
2820.0	47.0000	-0.101	29.30415
2830.0	47.1667	-0.104	29.30618
2840.0	47.3333	-0.108	29.31026
2850.0	47.5000	-0.108	29.31229
2860.0	47.6667	-0.111	29.31229
2870.0	47.8333	-0.111	29.31433
2880.0	48.0000	-0.111	29.31229
2890.0	48.1667	-0.108	29.31229
2900.0	48.3333	-0.108	29.31026
2910.0	48.5000	-0.108	29.31229

2920.0	48.6667	-0.108	29.31229
2930.0	48.8333	-0.108	29.31229
2940.0	49.0000	-0.108	29.31229
2950.0	49.1667	-0.111	29.31229
2960.0	49.3333	-0.111	29.31433
2970.0	49.5000	-0.111	29.31229
2980.0	49.6667	-0.108	29.31026
2990.0	49.8333	-0.108	29.31026
3000.0	50.0000	-0.108	29.30618
3010.0	50.1667	-0.108	29.31026
3020.0	50.3333	-0.108	29.31026
3030.0	50.5000	-0.108	29.31026
3040.0	50.6667	-0.108	29.31229
3050.0	50.8333	-0.108	29.31229
3060.0	51.0000	-0.108	29.31026
3070.0	51.1667	-0.104	29.30415
3080.0	51.3333	-0.101	29.30415
3090.0	51.5000	-0.101	29.30211
3100.0	51.6667	-0.101	29.30211
3110.0	51.8333	-0.101	29.30211
3120.0	52.0000	-0.101	29.30211
3130.0	52.1667	-0.101	29.30415
3140.0	52.3333	-0.104	29.30618
3150.0	52.5000	-0.104	29.30618
3160.0	52.6667	-0.108	29.31026
3170.0	52.8333	-0.108	29.31026
3180.0	53.0000	-0.108	29.31026
3190.0	53.1667	-0.108	29.31026
3200.0	53.3333	-0.108	29.30618
3210.0	53.5000	-0.104	29.30415
3220.0	53.6667	-0.101	29.30211
3230.0	53.8333	-0.101	29.30211
3240.0	54.0000	-0.101	29.30211
3250.0	54.1667	-0.101	29.30008
3260.0	54.3333	-0.101	29.30008
3270.0	54.5000	-0.101	29.30415
3280.0	54.6667	-0.104	29.30211
3290.0	54.8333	-0.101	29.30211
3300.0	55.0000	-0.104	29.30415
3310.0	55.1667	-0.104	29.30415
3320.0	55.3333	-0.104	29.30415
3330.0	55.5000	-0.101	29.30211

3340.0	55.6667	-0.101	29.30211
3350.0	55.8333	-0.101	29.30415
3360.0	56.0000	-0.101	29.30211
3370.0	56.1667	-0.101	29.30211
3380.0	56.3333	-0.101	29.30211
3390.0	56.5000	-0.104	29.30415
3400.0	56.6667	-0.104	29.30618
3410.0	56.8333	-0.104	29.30415
3420.0	57.0000	-0.108	29.30618
3430.0	57.1667	-0.108	29.30415
3440.0	57.3333	-0.108	29.30415
3450.0	57.5000	-0.108	29.30618
3460.0	57.6667	-0.111	29.31026
3470.0	57.8333	-0.114	29.31026
3480.0	58.0000	-0.117	29.31433
3490.0	58.1667	-0.117	29.31433
3500.0	58.3333	-0.123	29.31636
3510.0	58.5000	-0.123	29.3184
3520.0	58.6667	-0.126	29.3184
3530.0	58.8333	-0.126	29.3184
3540.0	59.0000	-0.126	29.32044
3550.0	59.1667	-0.126	29.3184
3560.0	59.3333	-0.130	29.3184
3570.0	59.5000	-0.130	29.32044
3580.0	59.6667	-0.130	29.32044
3590.0	59.8333	-0.126	29.3184
3600.0	60.0000	-0.130	29.32044
3610.0	60.1667	-0.130	29.32247
3620.0	60.3333	-0.130	29.32044
3630.0	60.5000	-0.130	29.3184
3640.0	60.6667	-0.126	29.3184
3650.0	60.8333	-0.126	29.3184
3660.0	61.0000	-0.130	29.32044
3670.0	61.1667	-0.126	29.3184
3680.0	61.3333	-0.126	29.3184
3690.0	61.5000	-0.123	29.31636
3700.0	61.6667	-0.120	29.31433
3710.0	61.8333	-0.117	29.31026
3720.0	62.0000	-0.117	29.31026
3730.0	62.1667	-0.111	29.30618
3740.0	62.3333	-0.111	29.30211
3750.0	62.5000	-0.104	29.30008

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3760.0	62.6667	-0.101	29.296
3770.0	62.8333	-0.098	29.29397
3780.0	63.0000	-0.095	29.2899
3790.0	63.1667	-0.089	29.28582
3800.0	63.3333	-0.085	29.28175
3810.0	63.5000	-0.079	29.27972
3820.0	63.6667	-0.076	29.27564
3830.0	63.8333	-0.073	29.27361
3840.0	64.0000	-0.066	29.26546
3850.0	64.1667	-0.063	29.26546
3860.0	64.3333	-0.057	29.25936
3870.0	64.5000	-0.051	29.25528
3880.0	64.6667	-0.044	29.25121
3890.0	64.8333	-0.035	29.2451
3900.0	65.0000	-0.028	29.24103
3910.0	65.1667	-0.019	29.23696
3920.0	65.3333	-0.010	29.23085
3930.0	65.5000	0.000	29.22271
3940.0	65.6667	0.000	29.22067
3950.0	65.8333	0.003	29.21864
3960.0	66.0000	0.006	29.2166
3970.0	66.1667	0.013	29.21253
3980.0	66.3333	0.016	29.21049
3990.0	66.5000	0.019	29.20438
4000.0	66.6667	0.025	29.20235
4010.0	66.8333	0.028	29.19828
4020.0	67.0000	0.032	29.19217
4030.0	67.1667	0.035	29.19013
4040.0	67.3333	0.038	29.18606
4050.0	67.5000	0.038	29.18606
4060.0	67.6667	0.041	29.18402
4070.0	67.8333	0.044	29.17995
4080.0	68.0000	0.051	29.17588
4090.0	68.1667	0.054	29.17181
4100.0	68.3333	0.057	29.16774
4110.0	68.5000	0.057	29.16774
4120.0	68.6667	0.057	29.16774
4130.0	68.8333	0.057	29.16774
4140.0	69.0000	0.060	29.1657
4150.0	69.1667	0.060	29.1657
4160.0	69.3333	0.057	29.1657
4170.0	69.5000	0.[illegible]30	29.1657

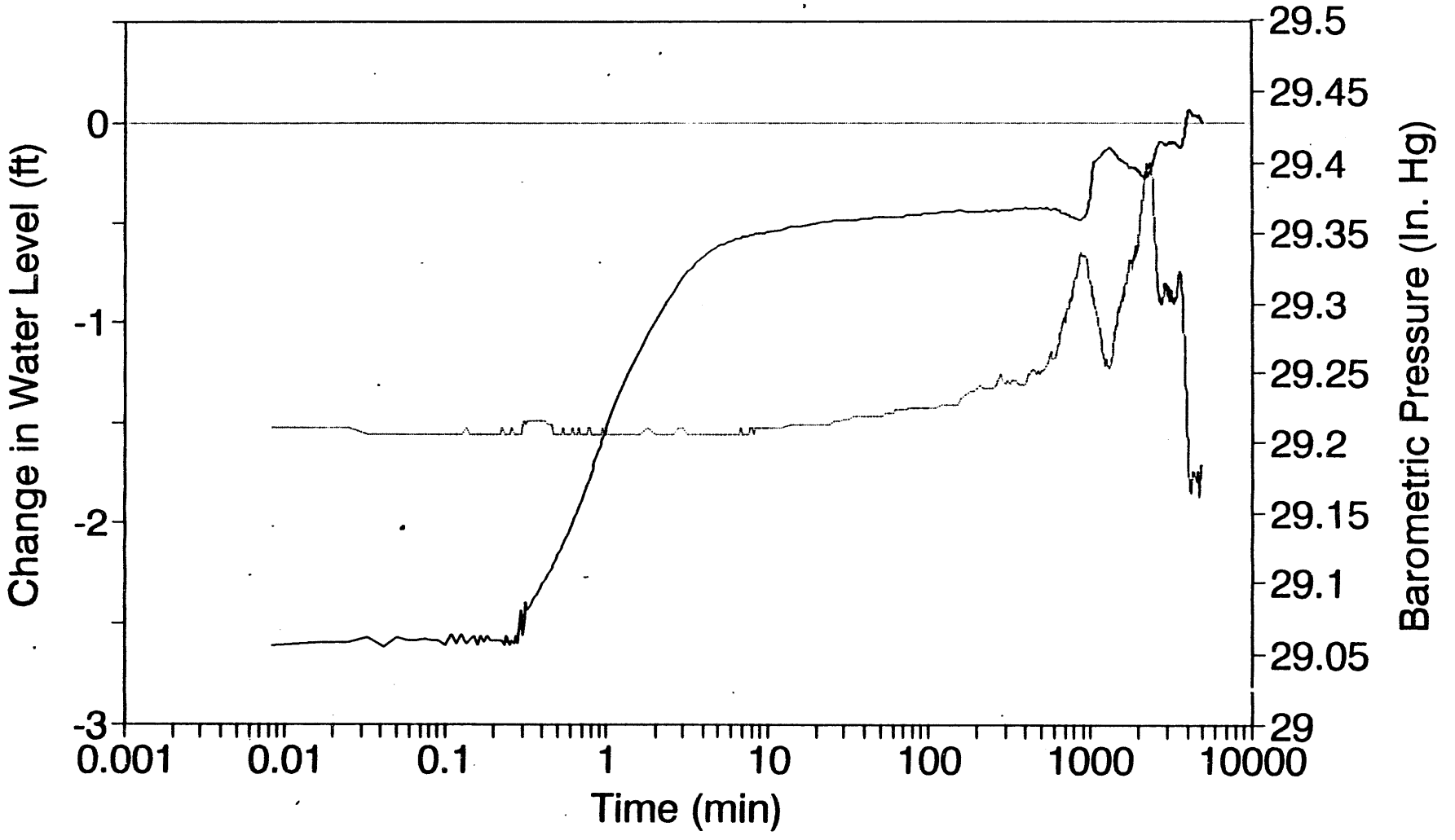
299-W12-1 Pump Test Recovery

4180.0	69.6667	0.057	29.16366
4190.0	69.8333	0.057	29.1657
4200.0	70.0000	0.057	29.1657
4210.0	70.1667	0.057	29.1657
4220.0	70.3333	0.054	29.1657
4230.0	70.5000	0.054	29.16774
4240.0	70.6667	0.047	29.17181
4250.0	70.8333	0.047	29.17181
4260.0	71.0000	0.044	29.17384
4270.0	71.1667	0.044	29.17384
4280.0	71.3333	0.044	29.17384
4290.0	71.5000	0.044	29.17384
4300.0	71.6667	0.044	29.17384
4310.0	71.8333	0.041	29.17384
4320.0	72.0000	0.041	29.17588
4330.0	72.1667	0.038	29.17792
4340.0	72.3333	0.035	29.17792
4350.0	72.5000	0.038	29.17588
4360.0	72.6667	0.035	29.17792
4370.0	72.8333	0.032	29.17995
4380.0	73.0000	0.032	29.17792
4390.0	73.1667	0.032	29.17792
4400.0	73.3333	0.035	29.17792
4410.0	73.5000	0.035	29.17792
4420.0	73.6667	0.035	29.17588
4430.0	73.8333	0.032	29.17588
4440.0	74.0000	0.035	29.17588
4450.0	74.1667	0.032	29.17588
4460.0	74.3333	0.032	29.17588
4470.0	74.5000	0.032	29.17588
4480.0	74.6667	0.035	29.17384
4490.0	74.8333	0.032	29.17384
4500.0	75.0000	0.032	29.17384
4510.0	75.1667	0.032	29.17384
4520.0	75.3333	0.032	29.17384
4530.0	75.5000	0.028	29.17384
4540.0	75.6667	0.028	29.17588
4550.0	75.8333	0.032	29.17181
4560.0	76.0000	0.028	29.17384
4570.0	76.1667	0.032	29.17384
4580.0	76.3333	0.028	29.17384
4590.0	76.5000	0.025	29.17588

299-W12-1 Pump Test Recovery

4600.0	76.6667	0.022	29.17792
4610.0	76.8333	0.022	29.17995
4620.0	77.0000	0.022	29.17792
4630.0	77.1667	0.025	29.17588
4640.0	77.3333	0.025	29.17384
4650.0	77.5000	0.025	29.17384
4660.0	77.6667	0.025	29.17384
4670.0	77.8333	0.025	29.17181
4680.0	78.0000	0.028	29.17181
4690.0	78.1667	0.028	29.16774
4700.0	78.3333	0.035	29.16366
4710.0	78.5000	0.035	29.16163
4720.0	78.6667	0.028	29.1657
4730.0	78.8333	0.028	29.16774
4740.0	79.0000	0.028	29.1657
4750.0	79.1667	0.028	29.1657
4760.0	79.3333	0.022	29.17181
4770.0	79.5000	0.022	29.17384
4780.0	79.6667	0.019	29.17588
4790.0	79.8333	0.019	29.17588
4800.0	80.0000	0.019	29.17384
4810.0	80.1667	0.016	29.17792
4820.0	80.3333	0.016	29.17792
4830.0	80.5000	0.009	29.18199
4840.0	80.6667	0.009	29.18199
4850.0	80.8333	0.006	29.18402
4860.0	81.0000	0.003	29.18402
4870.0	81.1667	0.006	29.18199
4880.0	81.3333	0.006	29.18199
4890.0	81.5000	0.006	29.18402
4900.0	81.6667	0.003	29.18402
4910.0	81.8333	0.003	29.18402
4920.0	82.0000	0.003	29.18402
4930.0	82.1667	0.000	29.18402

299-W12-1 Recovery
30-Sept-93



Recovery — Barometric

299-W12-1 Pre-test Baseline

Well 299-W12-1 Pre-Test Baseline

Hermit Unit# 2K-192
Test# 0: Baseline
SWL: 277.370
Start Time: 12:00 09/09/93

Time:min	Time:hrs	D-T-W:Ft	d(WL):Ft
0	0.00	277.47	-277.47
30	0.50	277.46	-277.46
60	1.00	277.44	-277.44
90	1.50	277.43	-277.43
120	2.00	277.42	-277.42
150	2.50	277.41	-277.41
180	3.00	277.40	-277.40
210	3.50	277.38	-277.38
240	4.00	277.37	-277.37
270	4.50	277.36	-277.36
300	5.00	277.35	-277.35
330	5.50	277.34	-277.34
360	6.00	277.34	-277.34
390	6.50	277.33	-277.33
420	7.00	277.33	-277.33
450	7.50	277.33	-277.33
480	8.00	277.34	-277.34
510	8.50	277.35	-277.35
540	9.00	277.36	-277.36
570	9.50	277.36	-277.36
600	10.00	277.36	-277.36
630	10.50	277.36	-277.36
660	11.00	277.36	-277.36
690	11.50	277.36	-277.36
720	12.00	277.37	-277.37
750	12.50	277.37	-277.37
780	13.00	277.37	-277.37
810	13.50	277.37	-277.37
840	14.00	277.38	-277.38
870	14.50	277.38	-277.38
900	15.00	277.38	-277.38
930	15.50	277.39	-277.39
960	16.00	277.39	-277.39

990	16.50	277.39	-277.39
1020	17.00	277.40	-277.40
1050	17.50	277.40	-277.40
1080	18.00	277.40	-277.40
1110	18.50	277.41	-277.41
1140	19.00	277.41	-277.41
1170	19.50	277.43	-277.43
1200	20.00	277.42	-277.42
1230	20.50	277.43	-277.43
1260	21.00	277.43	-277.43
1290	21.50	277.43	-277.43
1320	22.00	277.43	-277.43
1350	22.50	277.43	-277.43
1380	23.00	277.42	-277.42
1410	23.50	277.41	-277.41
1440	24.00	277.40	-277.40
1470	24.50	277.39	-277.39
1500	25.00	277.37	-277.37
1530	25.50	277.36	-277.36
1560	26.00	277.34	-277.34
1590	26.50	277.33	-277.33
1620	27.00	277.31	-277.31
1650	27.50	277.30	-277.30
1680	28.00	277.29	-277.29
1710	28.50	277.27	-277.27
1740	29.00	277.27	-277.27
1770	29.50	277.26	-277.26
1800	30.00	277.25	-277.25
1830	30.50	277.26	-277.26
1860	31.00	277.26	-277.26
1890	31.50	277.27	-277.27
1920	32.00	277.28	-277.28
1950	32.50	277.29	-277.29
1980	33.00	277.30	-277.30
2010	33.50	277.30	-277.30
2040	34.00	277.31	-277.31
2070	34.50	277.30	-277.30
2100	35.00	277.31	-277.31
2130	35.50	277.31	-277.31
2160	36.00	277.32	-277.32
2190	36.50	277.33	-277.33
2220	37.00	277.35	-277.35

299-W12-1 Pre-test Baseline

2250	37.50	277.36	-277.36
2280	38.00	277.36	-277.36
2310	38.50	277.36	-277.36
2340	39.00	277.35	-277.35
2370	39.50	277.35	-277.35
2400	40.00	277.35	-277.35
2430	40.50	277.36	-277.36
2460	41.00	277.36	-277.36
2490	41.50	277.36	-277.36
2520	42.00	277.36	-277.36
2550	42.50	277.35	-277.35
2580	43.00	277.35	-277.35
2610	43.50	277.36	-277.36
2640	44.00	277.36	-277.36
2670	44.50	277.37	-277.37
2700	45.00	277.37	-277.37
2730	45.50	277.38	-277.38
2760	46.00	277.39	-277.39
2790	46.50	277.39	-277.39
2820	47.00	277.39	-277.39
2850	47.50	277.39	-277.39
2880	48.00	277.37	-277.37
2910	48.50	277.36	-277.36
2940	49.00	277.34	-277.34
2970	49.50	277.33	-277.33
3000	50.00	277.33	-277.33
3030	50.50	277.33	-277.33
3060	51.00	277.32	-277.32
3090	51.50	277.32	-277.32
3120	52.00	277.31	-277.31
3150	52.50	277.31	-277.31
3180	53.00	277.32	-277.32
3210	53.50	277.34	-277.34
3240	54.00	277.36	-277.36
3270	54.50	277.35	-277.35
3300	55.00	277.39	-277.39
3330	55.50	277.40	-277.40
3360	56.00	277.43	-277.43
3390	56.50	277.45	-277.45
3420	57.00	277.48	-277.48
3450	57.50	277.48	-277.48
3480	58.00	277.49	-277.49

3510	58.50	277.50	-277.50
3540	59.00	277.51	-277.51
3570	59.50	277.51	-277.51
3600	60.00	277.51	-277.51
3630	60.50	277.52	-277.52
3660	61.00	277.53	-277.53
3690	61.50	277.54	-277.54
3720	62.00	277.53	-277.53
3750	62.50	277.54	-277.54
3780	63.00	277.54	-277.54
3810	63.50	277.56	-277.56
3840	64.00	277.56	-277.56
3870	64.50	277.57	-277.57
3900	65.00	277.59	-277.59
3930	65.50	277.60	-277.60
3960	66.00	277.61	-277.61
3990	66.50	277.62	-277.62
4020	67.00	277.63	-277.63
4050	67.50	277.64	-277.64
4080	68.00	277.65	-277.65
4110	68.50	277.65	-277.65
4140	69.00	277.65	-277.65
4170	69.50	277.65	-277.65
4200	70.00	277.66	-277.66
4230	70.50	277.66	-277.66
4260	71.00	277.66	-277.66
4290	71.50	277.65	-277.65
4320	72.00	277.64	-277.64
4350	72.50	277.63	-277.63
4380	73.00	277.63	-277.63
4410	73.50	277.62	-277.62
4440	74.00	277.61	-277.61
4470	74.50	277.59	-277.59
4500	75.00	277.59	-277.59
4530	75.50	277.58	-277.58
4560	76.00	277.57	-277.57
4590	76.50	277.57	-277.57
4620	77.00	277.56	-277.56
4650	77.50	277.56	-277.56
4680	78.00	277.56	-277.56
4710	78.50	277.56	-277.56
4740	79.00	277.56	-277.56

4770	79.50	277.56	-277.56
4800	80.00	277.57	-277.57
4830	80.50	277.58	-277.58
4860	81.00	277.58	-277.58
4890	81.50	277.59	-277.59
4920	82.00	277.59	-277.59
4950	82.50	277.59	-277.59
4980	83.00	277.59	-277.59
5010	83.50	277.60	-277.60
5040	84.00	277.60	-277.60
5070	84.50	277.60	-277.60
5100	85.00	277.60	-277.60
5130	85.50	277.60	-277.60
5160	86.00	277.60	-277.60
5190	86.50	277.60	-277.60
5220	87.00	277.60	-277.60
5250	87.50	277.60	-277.60
5280	88.00	277.60	-277.60
5310	88.50	277.60	-277.60
5340	89.00	277.60	-277.60
5370	89.50	277.60	-277.60
5400	90.00	277.60	-277.60
5430	90.50	277.61	-277.61
5460	91.00	277.61	-277.61
5490	91.50	277.62	-277.62
5520	92.00	277.62	-277.62
5550	92.50	277.62	-277.62
5580	93.00	277.61	-277.61
5610	93.50	277.61	-277.61
5640	94.00	277.60	-277.60
5670	94.50	277.59	-277.59
5700	95.00	277.58	-277.58
5730	95.50	277.56	-277.56
5760	96.00	277.55	-277.55
5790	96.50	277.54	-277.54
5820	97.00	277.53	-277.53
5850	97.50	277.51	-277.51
5880	98.00	277.49	-277.49
5910	98.50	277.47	-277.47
5940	99.00	277.46	-277.46
5970	99.50	277.44	-277.44
6000	100.00	277.42	-277.42

6030	100.50	277.42	-277.42
6060	101.00	277.41	-277.41
6090	101.50	277.40	-277.40
6120	102.00	277.39	-277.39
6150	102.50	277.39	-277.39
6180	103.00	277.39	-277.39
6210	103.50	277.38	-277.38
6240	104.00	277.38	-277.38
6270	104.50	277.39	-277.39
6300	105.00	277.40	-277.40
6330	105.50	277.39	-277.39
6360	106.00	277.39	-277.39
6390	106.50	277.39	-277.39
6420	107.00	277.39	-277.39
6450	107.50	277.38	-277.38
6480	108.00	277.38	-277.38
6510	108.50	277.38	-277.38
6540	109.00	277.38	-277.38
6570	109.50	277.37	-277.37
6600	110.00	277.37	-277.37
6630	110.50	277.37	-277.37
6660	111.00	277.37	-277.37
6690	111.50	277.36	-277.36
6720	112.00	277.36	-277.36
6750	112.50	277.35	-277.35
6780	113.00	277.35	-277.35
6810	113.50	277.35	-277.35
6840	114.00	277.35	-277.35
6870	114.50	277.35	-277.35
6900	115.00	277.36	-277.36
6930	115.50	277.37	-277.37
6960	116.00	277.37	-277.37
6990	116.50	277.36	-277.36
7020	117.00	277.36	-277.36
7050	117.50	277.35	-277.35
7080	118.00	277.36	-277.36
7110	118.50	277.38	-277.38
7140	119.00	277.36	-277.36
7170	119.50	277.35	-277.35
7200	120.00	277.37	-277.37
7230	120.50	277.36	-277.36
7260	121.00	277.37	-277.37

7290	121.50	277.38	-277.38
7320	122.00	277.39	-277.39
7350	122.50	277.39	-277.39
7380	123.00	277.40	-277.40
7410	123.50	277.40	-277.40
7440	124.00	277.40	-277.40
7470	124.50	277.41	-277.41
7500	125.00	277.43	-277.43
7530	125.50	277.44	-277.44
7560	126.00	277.44	-277.44
7590	126.50	277.45	-277.45
7620	127.00	277.45	-277.45
7650	127.50	277.45	-277.45
7680	128.00	277.46	-277.46
7710	128.50	277.47	-277.47
7740	129.00	277.47	-277.47
7770	129.50	277.47	-277.47
7800	130.00	277.48	-277.48
7830	130.50	277.48	-277.48
7860	131.00	277.48	-277.48
7890	131.50	277.50	-277.50
7920	132.00	277.49	-277.49
7950	132.50	277.50	-277.50
7980	133.00	277.50	-277.50
8010	133.50	277.50	-277.50
8040	134.00	277.51	-277.51
8070	134.50	277.51	-277.51
8100	135.00	277.52	-277.52
8130	135.50	277.52	-277.52
8160	136.00	277.52	-277.52
8190	136.50	277.53	-277.53
8220	137.00	277.52	-277.52
8250	137.50	277.53	-277.53
8280	138.00	277.54	-277.54
8310	138.50	277.54	-277.54
8340	139.00	277.55	-277.55
8370	139.50	277.55	-277.55
8400	140.00	277.56	-277.56
8430	140.50	277.57	-277.57
8460	141.00	277.57	-277.57
8490	141.50	277.57	-277.57
8520	142.00	277.57	-277.57

8550	142.50	277.58	-277.58
8580	143.00	277.58	-277.58
8610	143.50	277.57	-277.57
8640	144.00	277.57	-277.57
8670	144.50	277.56	-277.56
8700	145.00	277.54	-277.54
8730	145.50	277.54	-277.54
8760	146.00	277.54	-277.54
8790	146.50	277.53	-277.53
8820	147.00	277.52	-277.52
8850	147.50	277.51	-277.51
8880	148.00	277.51	-277.51
8910	148.50	277.50	-277.50
8940	149.00	277.50	-277.50
8970	149.50	277.49	-277.49
9000	150.00	277.49	-277.49
9030	150.50	277.49	-277.49
9060	151.00	277.50	-277.50
9090	151.50	277.50	-277.50
9120	152.00	277.52	-277.52
9150	152.50	277.52	-277.52
9180	153.00	277.54	-277.54
9210	153.50	277.54	-277.54
9240	154.00	277.54	-277.54
9270	154.50	277.55	-277.55
9300	155.00	277.56	-277.56
9330	155.50	277.57	-277.57
9360	156.00	277.58	-277.58
9390	156.50	277.58	-277.58
9420	157.00	277.59	-277.59
9450	157.50	277.60	-277.60
9480	158.00	277.60	-277.60
9510	158.50	277.61	-277.61
9540	159.00	277.61	-277.61
9570	159.50	277.61	-277.61
9600	160.00	277.61	-277.61
9630	160.50	277.61	-277.61
9660	161.00	277.60	-277.60
9690	161.50	277.60	-277.60
9720	162.00	277.60	-277.60
9750	162.50	277.61	-277.61
9780	163.00	277.61	-277.61

9810	163.50	277.62	-277.62
9840	164.00	277.61	-277.61
9870	164.50	277.61	-277.61
9900	165.00	277.61	-277.61
9930	165.50	277.61	-277.61
9960	166.00	277.60	-277.60
9990	166.50	277.60	-277.60
10020	167.00	277.59	-277.59
10050	167.50	277.58	-277.58
10080	168.00	277.57	-277.57
10110	168.50	277.55	-277.55
10140	169.00	277.54	-277.54
10170	169.50	277.53	-277.53
10200	170.00	277.52	-277.52
10230	170.50	277.51	-277.51
10260	171.00	277.50	-277.50
10290	171.50	277.49	-277.49
10320	172.00	277.47	-277.47
10350	172.50	277.47	-277.47
10380	173.00	277.46	-277.46
10410	173.50	277.45	-277.45
10440	174.00	277.44	-277.44
10470	174.50	277.44	-277.44
10500	175.00	277.44	-277.44
10530	175.50	277.44	-277.44
10560	176.00	277.45	-277.45
10590	176.50	277.45	-277.45
10620	177.00	277.46	-277.46
10650	177.50	277.47	-277.47
10680	178.00	277.47	-277.47
10710	178.50	277.47	-277.47
10740	179.00	277.48	-277.48
10770	179.50	277.49	-277.49
10800	180.00	277.49	-277.49
10830	180.50	277.50	-277.50
10860	181.00	277.50	-277.50
10890	181.50	277.51	-277.51
10920	182.00	277.51	-277.51
10950	182.50	277.51	-277.51
10980	183.00	277.50	-277.50
11010	183.50	277.50	-277.50
11040	184.00	277.50	-277.50

11070	184.50	277.51	-277.51
11100	185.00	277.51	-277.51
11130	185.50	277.51	-277.51
11160	186.00	277.52	-277.52
11190	186.50	277.53	-277.53
11220	187.00	277.54	-277.54
11250	187.50	277.55	-277.55
11280	188.00	277.56	-277.56
11310	188.50	277.56	-277.56
11340	189.00	277.57	-277.57
11370	189.50	277.58	-277.58
11400	190.00	277.58	-277.58
11430	190.50	277.58	-277.58
11460	191.00	277.58	-277.58
11490	191.50	277.57	-277.57
11520	192.00	277.56	-277.56
11550	192.50	277.55	-277.55
11580	193.00	277.54	-277.54
11610	193.50	277.52	-277.52
11640	194.00	277.51	-277.51
11670	194.50	277.50	-277.50
11700	195.00	277.49	-277.49
11730	195.50	277.47	-277.47
11760	196.00	277.47	-277.47
11790	196.50	277.46	-277.46
11820	197.00	277.45	-277.45
11850	197.50	277.45	-277.45
11880	198.00	277.45	-277.45
11910	198.50	277.45	-277.45
11940	199.00	277.45	-277.45
11970	199.50	277.46	-277.46
12000	200.00	277.47	-277.47
12030	200.50	277.47	-277.47
12060	201.00	277.47	-277.47
12090	201.50	277.48	-277.48
12120	202.00	277.48	-277.48
12150	202.50	277.48	-277.48
12180	203.00	277.48	-277.48
12210	203.50	277.49	-277.49
12240	204.00	277.49	-277.49
12270	204.50	277.48	-277.48
12300	205.00	277.49	-277.49

12330	205.50	277.49	-277.49
12360	206.00	277.49	-277.49
12390	206.50	277.48	-277.48
12420	207.00	277.49	-277.49
12450	207.50	277.49	-277.49
12480	208.00	277.49	-277.49
12510	208.50	277.49	-277.49
12540	209.00	277.49	-277.49
12570	209.50	277.48	-277.48
12600	210.00	277.49	-277.49
12630	210.50	277.49	-277.49
12660	211.00	277.50	-277.50
12690	211.50	277.51	-277.51
12720	212.00	277.51	-277.51
12750	212.50	277.51	-277.51
12780	213.00	277.51	-277.51
12810	213.50	277.51	-277.51
12840	214.00	277.51	-277.51
12870	214.50	277.50	-277.50
12900	215.00	277.50	-277.50
12930	215.50	277.49	-277.49
12960	216.00	277.48	-277.48
12990	216.50	277.47	-277.47
13020	217.00	277.45	-277.45
13050	217.50	277.44	-277.44
13080	218.00	277.43	-277.43
13110	218.50	277.41	-277.41
13140	219.00	277.40	-277.40
13170	219.50	277.39	-277.39
13200	220.00	277.39	-277.39
13230	220.50	277.38	-277.38
13260	221.00	277.38	-277.38
13290	221.50	277.37	-277.37
13320	222.00	277.37	-277.37
13350	222.50	277.37	-277.37
13380	223.00	277.37	-277.37
13410	223.50	277.37	-277.37
13440	224.00	277.39	-277.39
13470	224.50	277.41	-277.41
13500	225.00	277.43	-277.43
13530	225.50	277.42	-277.42
13560	226.00	277.42	-277.42

13590	226.50	277.42	-277.42
13620	227.00	277.44	-277.44
13650	227.50	277.45	-277.45
13680	228.00	277.45	-277.45
13710	228.50	277.45	-277.45
13740	229.00	277.46	-277.46
13770	229.50	277.47	-277.47
13800	230.00	277.47	-277.47
13830	230.50	277.48	-277.48
13860	231.00	277.48	-277.48
13890	231.50	277.48	-277.48
13920	232.00	277.48	-277.48
13950	232.50	277.48	-277.48
13980	233.00	277.49	-277.49
14010	233.50	277.49	-277.49
14040	234.00	277.49	-277.49
14070	234.50	277.50	-277.50
14100	235.00	277.50	-277.50
14130	235.50	277.51	-277.51
14160	236.00	277.51	-277.51
14190	236.50	277.51	-277.51
14220	237.00	277.50	-277.50
14250	237.50	277.51	-277.51
14280	238.00	277.51	-277.51
14310	238.50	277.51	-277.51
14340	239.00	277.50	-277.50
14370	239.50	277.49	-277.49
14400	240.00	277.48	-277.48
14430	240.50	277.47	-277.47
14460	241.00	277.46	-277.46
14490	241.50	277.45	-277.45
14520	242.00	277.44	-277.44
14550	242.50	277.43	-277.43
14580	243.00	277.42	-277.42
14610	243.50	277.41	-277.41
14640	244.00	277.41	-277.41
14670	244.50	277.40	-277.40
14700	245.00	277.40	-277.40
14730	245.50	277.40	-277.40
14760	246.00	277.41	-277.41
14790	246.50	277.41	-277.41
14820	247.00	277.43	-277.43

14850	247.50	277.44	-277.44
14880	248.00	277.45	-277.45
14910	248.50	277.47	-277.47
14940	249.00	277.48	-277.48
14970	249.50	277.48	-277.48
15000	250.00	277.48	-277.48
15030	250.50	277.47	-277.47
15060	251.00	277.49	-277.49
15090	251.50	277.50	-277.50
15120	252.00	277.50	-277.50
15150	252.50	277.51	-277.51
15180	253.00	277.51	-277.51
15210	253.50	277.51	-277.51
15240	254.00	277.52	-277.52
15270	254.50	277.52	-277.52
15300	255.00	277.52	-277.52
15330	255.50	277.52	-277.52
15360	256.00	277.52	-277.52
15390	256.50	277.53	-277.53
15420	257.00	277.53	-277.53
15450	257.50	277.54	-277.54
15480	258.00	277.53	-277.53
15510	258.50	277.54	-277.54
15540	259.00	277.54	-277.54
15570	259.50	277.55	-277.55
15600	260.00	277.56	-277.56
15630	260.50	277.57	-277.57
15660	261.00	277.57	-277.57
15690	261.50	277.58	-277.58
15720	262.00	277.58	-277.58

FIELD ACTIVITY REPORT

Report 1 of ____

Page 1 of 1

Purpose: Aquifer testing

Date	Well/Excavation No.	Rig Type	Contract/Work Order No.	Start Card No.
9-9-93	W11-10 / W12-1	—	PT 1 4B	

Operable Unit/Project: 200 UP-1

Location: East of T-Plant

Reference: WHC-SD-EN-AP-130-Rev-1

Activity:

Extended Baselines
Prior to Drawdown tests

PERSONNEL:

FTL: —
Geologist: —
Driller: —
Helper: —
HPT: —
SSO: —
Other: B Strode MCE/WHC

TIME: Start: 1015 Finish: 11:35

DELAYS/EXPLANATIONS: ____

Description of Operations/Remarks

10:15 on Site 299W-11-10 SWL 275.26; ET-4 7-30-94
Set x-ducer #350976 10.214' below static on input #1
Set (Barn) x-ducer #300053 on input #2 - using Hermit #2K-521
Delay Start Test #3 1200 / 9-9-93 Secure well head —
1035 on Site 299W-12-1 SWL 277.37, ET-4 (7-30-94) Set
x-ducer #2246 10.575' Below SWL Delay Start test #C
Set for 1200 9-9-93 on Hermit #2K-192 - Well Head Secured

Report By: B F Strode (Print) (Sign) Date: 9-9-93

Title/Company: Equipment Technician MCE/WHC

A-6001-123 (03/93)

FIELD ACTIVITY REPORT

Report 1 of ____

Page 1 of 1

Purpose: Aquifer testing

Date	Well/Excavation No.	Rig Type	Contract/Work Order No.	Start Card No.
9-29-93	299-W-12-1	—	PT 1413	

Operable Unit/Project:

Reference:

Location: 1/3 mi East of T-Plant

Activity: Step Drawdown using Step program on Hermit 2000

PERSONNEL:

FTL: J.A. Coates (WHC)

Geologist: R.S. Edrington (WHC)

Driller:

Helper:

HPT:

SSO:

Other: B.F. Strode (MCE/WHC)

TIME: Start: 1330 Finish: 2000

DELAYS/EXPLANATIONS:

Description of Operations/Remarks

1330 Begin Setting up for testing
1650 SWL 277.15 ET-4 (1-30-94)
1724 Hermit # 2K-521 test # 7 well # 299W-12-01
input #1 x-ducer # 2044DE 3-11-94 Depth of unit 12.184'
input #2 x-ducer # 2110 3-23-94 upstream of orifice
input #3 x ducer # 2430 7-22-94 Downstream of orifice
input #4 x-ducer # 301017 Barometric unit / orifice 1" X.5
1750 start test # 7 step #0 Starting with a Dry Discharge pipe from 1 1/2 HP Grundfos Submersible pumping 2.5 G.P.M
1850 Start test # 7 step #1 5 G.P.M.
1930 SWL 278.22' ET-4 (1-30-94)
1950 Start test # 7 Step #2 Recovery
2000 Well Secure - off site -

Report By: B.F. Strode (Print) [signature] (Sign) Date: 9-29-93

Title/Company: Equipment Technician MCE/WHC

A-6001-123 (03/93)

FIELD ACTIVITY REPORT

Report 1 of ____

Page 1 of 1

Purpose: Aquifer testing

Date	Well/Excavation No.	Rig Type	Contract/Work Order No.	Start Card No.
9-30-93	299-W-12-01	–	PTIAB	

Operable Unit/Project: 200-UP-1

Reference:

Location: 1/3 mi. East of T-plant

Activity: Drawdown test

PERSONNEL:

FTL: J.A Coates

Geologist: R.S. Edrington

Driller:

Helper:

HPT:

SSO:

Other: B.F. Strode

TIME: Start: 0330 Finish: 2115

DELAYS/EXPLANATIONS:

Description of Operations/Remarks

0330 - on site
0353 - SWL 277.23 ET-4 (1-30-94) Hermit #2R-521 site 12-01
input #1 #2044 OE 3-11-94 x-ducer depth 12.118'
input #2 #2110 3-23-94 upstream orifice Badger Meter Inc.
input #3 #2430 7-22-94 Down Stream orifice # 985706 A-2-1"x.5"
input #4 # 301017 Barometric pressure unit 2' T.O.C.
0400 Step test #7 step #2
0405 Start test #8 step #0 pumping rate 7.0 GPM
1400 R.S. Edrington on site
1435 J.A Coates off site
2105 Start test #8 step #1 Recovery
2115 well Secure - leave site

Report By: B F Strode (Print) (Sign) Date: 9-30-93

Title/Company: Equipment Technician MCF/WHC

A-6001-123 (03/93)

APPENDIX E

299-W14-10 SLUG TEST DATA

BOREHOLE TEST INFORMATION

Borehole 299-W14-10 Borehole Diameter 8 in. Hanford Coordinates N/A

Interval Tested 268.62-277' Perf'ed Interval 262'-277' Test Type: Instantaneous Slug

Borehole Depth: 317.63' Instruction Used: WHC-CM-7-7 (EII 10.1)

EQUIPMENT

NAME	DESCRIPTION
Electric Sounder	Solinst s/n: ET-4 Calibration due: 1-30-94
Data Logger	In-Situ Inc. s/n: 2K-193
Pressure Transducer	In-Situ Inc. s/n: 2044DE Calibration due: 3-11-94
Slugging Rod	BR-2: 0.194 Cu. Ft.
Steel Measuring Tape	500' Graduated Steel Tape

MEASUREMENT DATUM

Control Datum: Top of Casing (TOC) 8"

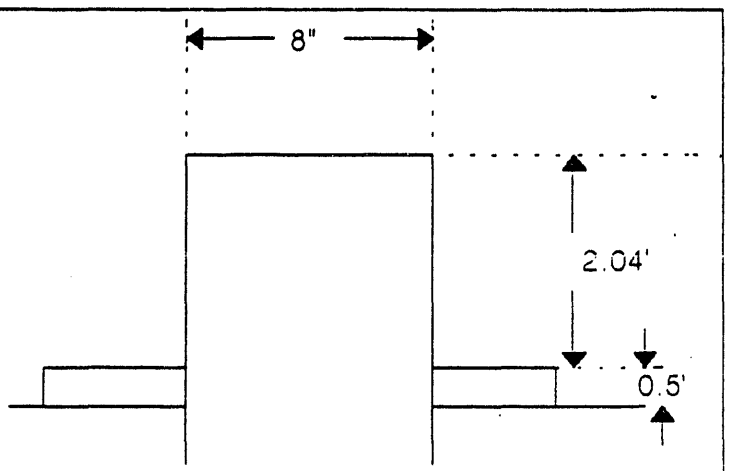
Elevation: N/A

Electric Sounder: TOC 8"

Steel Tape: TOC 8"

Pressure Transducer: TOC 8"

WELL HEAD DIAGRAM



Well Pad 2' diameter circle.

COMMENTS

Well is not straight, much difficulty in performing both injection and withdrawal tests. Data is very questionable, xducer seems to have caught on sides of well.

Recorded by: Robert S. Edrington Date: 8/23/93

Sign and Print Name

FIELD ACTIVITY REPORT

Report 1 of ____

Page 1 of 1

Purpose: Aquifer Testing

Date	Well/Excavation No.	Rig Type	Contract/Work Order No.	Start Card No.
8/18/93	299-W14-10	Small Pump Setting ST	PLB53	

Operable Unit/Project: 200 UP-1

Location: 300 yard's S.E. of laundry

Reference: WHC-SD-EN-AP-150 REV 1

Activity: Slug test

PERSONNEL:

FTL:

Geologist:

Driller: P. Parish WHC

Helper: D. Hollingsworth WHC

HPT: D. Newton WHC

SSO:

Other: B. Strode MCE/WHC

TIME: Start: 0745 Finish: 1240

DELAYS/EXPLANATIONS:

Description of Operations/Remarks

0745- on Site waiting on E.F.S.
0810 - EFS on Site ; Setting-up Checking hole for organics - Clear
0915 - SWL 268.61' (ET-4 1-30-94) Tag toc 8" ~~212.63'~~ 317.63
0932 - Start test #0 baseline x-ducer #2044 Hermit # 2K-193 Depth 10.057
10:27 Stop test #0 SWL Rechecked at 268.62'
1028 Start test #1 injection x-ducer depth 11.111 (Cable stretch?)
1101 Stop test # reset x-ducer and attempt 2 more injections
— Still getting improper readings - I belive the well is drilled
— at a very bad angle causing the slug rod to contact the
— x-ducer cable pulling it down hole with it. J. Coates contacted
1157 - Start Test #3 withdrawal
1224 - Stop test # 3 SWL 268.62' ET-4
1240 well Head Secure

Report By: R. F. Strode (Print) [signature] (Sign) Date: 8/18/93

Title/Company: Equipment Tech. MCE/WHC

A-6001-123 (03/93)

FIELD ACTIVITY REPORT – BOREHOLE TELEVISION SURVEY

Page 1 of 1

Date: 3/15/93	Well No.: 2-W14-10	Location: 200 West	Report No.: 93-202P-01
Casing Size: 8"	Type: C.S.	Set At: 330'	Screened/Perf Interval: Screen - 264.92 to 314.63; Perf. 260'-275'	Construction Depth: 330'
Last Recorded Depth to Water: 0.00	Date: 10/8/92	Top of Casing Elev (ft): N.D.	Ground Surface Elev (ft): N.D.

PURPOSE
Determine condition and status of casing, screens and/or perforations as applicable.

Start Time: 14:45 End Time: 15:00

Television System Used: Rees 99, Grey Camera van.

Personnel: S. H. Worley, H. E. Parrish

CAMERA/CABLE DECONTAMINATED PRIOR TO USE:
Date N.D. By N.D.

INSTRUCTIONS:
Measurements are to be recorded in feet and referenced to a common datum of ground surface.
Entries may be YES, NO, NA = Not applicable, ND = Not determined or OTHER.
Explain entries of OTHER in COMMENTS Section.

1. **GROUND SURFACE DATUM**--Establish ground surface datum in feet below top of casing. The camera counter, (or display equivalent) is set to zero. DATUM (ft below top of casing: Ground Surface, Casing Extends 2.10' above G.S.
2. **VADOSE ZONE CASING**--Examine vadose zone casing for evidence of damage, corrosion, scale or rust.
   Casing parted/damaged: No Comments: Some rust, not bad
   Corrosion/scale/rust: Some Comments: Rust not very heavy
3. **SUBMERGED CASING**--Examine submerged casing for evidence of damage, corrosion, scale or rust.
   Casing parted/damaged: No Comments: Screen begins above water level, unable
   Corrosion/scale/rust: Some Comments: to see casing.
4. **PERFORATIONS** (If applicable)--Examine perforations for condition and interval.
   Depth Top: N.D. Depth Bottom: N.D. Cuts/rd/ft: N.D.
   Condition, (clean/corroded, slots open, slots obscured, etc.) N/A.
5. **SCREEN** (if applicable)--Examine screen for condition and interval.
   Depth Top: 249.87' G.S. Depth Bottom: 314.63' G.S. Type:
   Condition, (clean, corroded, slots open, slots obscured, etc.) 7.87' of blank pipe, The screen becomes more and more corroded closer to bottom. Can't be 100% sure of screen reaching the bottom.
6. **TOP OF WATER**--Determine depth of water and interface condition.
   Depth: 264.92' G.S. Floating debris: none Surface appearance: good
   Comments: Top of water was in good shape & appearance.
7. **WATER QUALITY**--Record water quality observed during survey.
   Clear: yes Murky: no Dislodged Scale: Some Suspended debris: yes
   Comments: suspended debris but water was clear.
8. **HOLE BOTTOM**--Examine borehole bottom as observed during survey.
   Measured depth: 314.63 G.S. Appearance, (debris, silt, etc.) Bottom showed sand & silt.
   Comment: None
9. **COMMENTS**: There is no record of a screen being installed in this well. Unable to determine exact size and diameter of screen. Appears to be 5"-6" diameter, Stainless Steel. Screen should probably be brushed for a better picture and more info.

Report By: S. H. Worley	Reviewed By: M. G. GARDNER
Title: Adm. Plant Engineer	Title: TEAM LEADER Date: 3/17/93
Signature: S. H. Worley	Signature: MG Gardner

Distribution: White – Group File Custodian Yellow – Group Files Pink – Project Coordinator Goldenrod – Team Leader BC-6000 419 (03/90)

INSTANTANEOUS SLUG TEST DATA SHEET: INJECTION

Borehole: 299-W14-10

Interval Tested: 268.62'-277' TOC 8"

Depth To Water: 268.62' TOC 8"

Depth to Transducer: 10.057' BWL

Measured by: Bret F. Strode

Slug Volume: BR-2 0.194 Cu ft

Barometric Reading:

Beginning: N/A End: N/A

Time: Start End

Baseline 0932 1027

Injection 10:28/11:23 11:01/11:47

Date: 8-10-93

Initial Pressure (P): 268.610'

Slug Level/Pressure (Pmax) 268.518/264.198

Borehole Diameter: 8"

Time		Pressure	Time		Pressure	Time		Pressure
Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement

Injections very difficult due to well not being straight. Three attempts made at injections, data from the first and second.

Recorded by: Robert S. Edrington Date: 8-23-93

Sign and Print Name

BD-6000-293(07/90)

299-W14-10 Slug Injections

W14-10 Slug Injection

SWL: 268.610' TOC
Hermit 2K-193

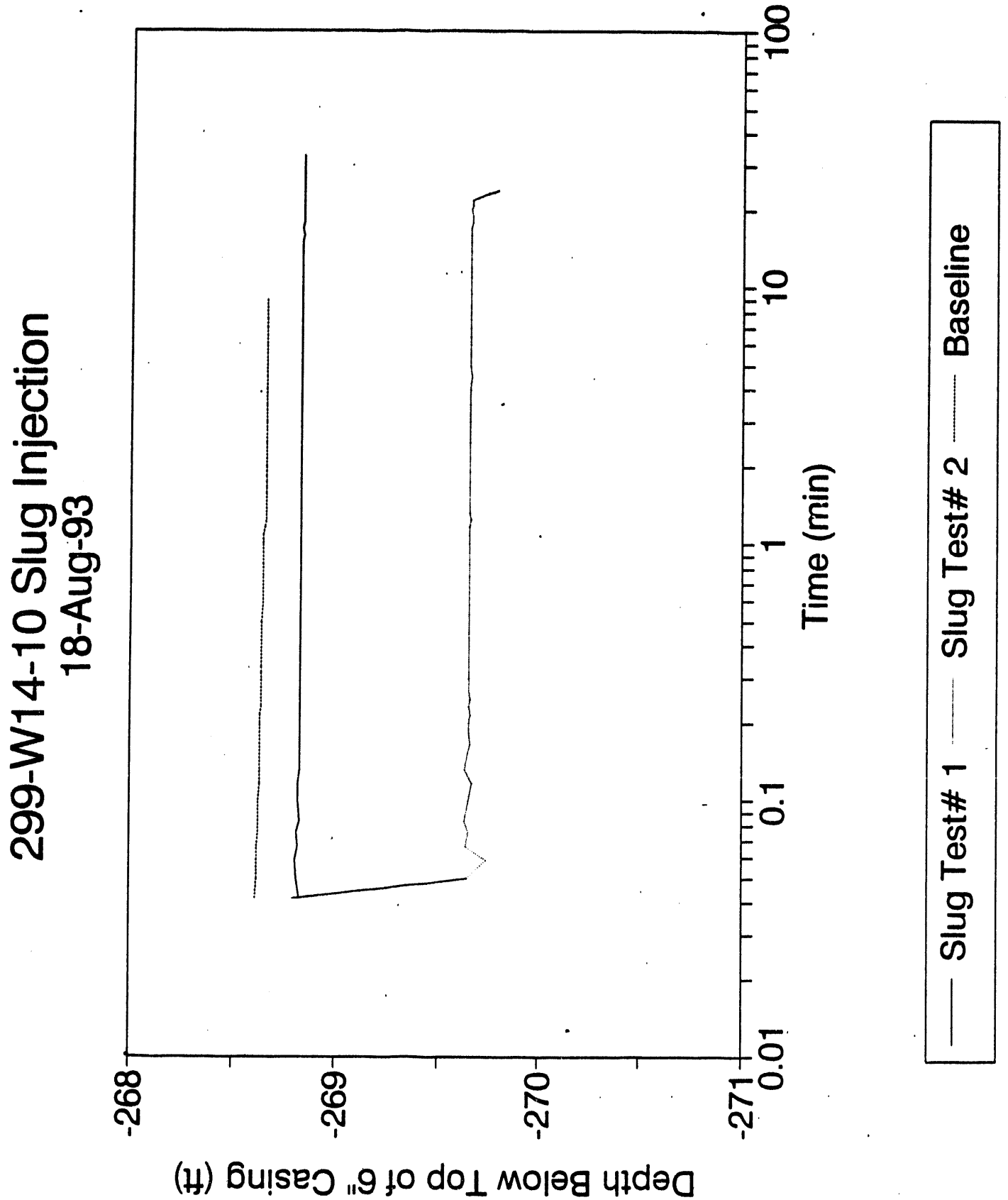
Test# 1 Injection# 1			Test# 2 Injection# 2			Test# 0 Baseline		
Start: 10:28 8/18/93			Start: 11:23 8/18/93			Baseline Started: 09:32 08/18/9		
Time:min	Time:hrs	d(WL):Ft	Time:min	Time:hrs	d(WL):Ft	Time:min	Time:hrs	d(WL):Ft
0.0000	0.00000	-269.074	0.0000	0.00000	-266.297	0	0.0000	-268.606
0.0083	0.00014	-268.888	0.0083	0.00014	-270.481	1	0.0167	-268.616
0.0166	0.00028	-268.518	0.0166	0.00028	-271.812	2	0.0333	-268.616
0.0250	0.00042	-269.049	0.0250	0.00042	-264.198	3	0.0500	-268.619
0.0333	0.00056	-268.831	0.0333	0.00056	-269.159	4	0.0667	-268.622
0.0416	0.00069	-268.831	0.0416	0.00069	-268.798	5	0.0833	-268.622
0.0500	0.00083	-268.818	0.0500	0.00083	-269.655	6	0.1000	-268.625
0.0583	0.00097	-268.809	0.0583	0.00097	-269.741	7	0.1167	-268.628
0.0666	0.00111	-268.821	0.0666	0.00111	-269.649	8	0.1333	-268.628
0.0750	0.00125	-268.818	0.0750	0.00125	-269.662	9	0.1500	-268.628
0.0833	0.00139	-268.828	0.0833	0.00139	-269.639	10	0.1667	-268.628
0.1000	0.00167	-268.825	0.1000	0.00167	-269.662	11	0.1833	-268.632
0.1166	0.00194	-268.825	0.1166	0.00194	-269.674	12	0.2000	-268.632
0.1333	0.00222	-268.831	0.1333	0.00222	-269.639	13	0.2167	-268.632
0.1500	0.00250	-268.828	0.1500	0.00250	-269.655	14	0.2333	-268.635
0.1666	0.00278	-268.831	0.1666	0.00278	-269.671	15	0.2500	-268.635
0.1833	0.00306	-268.831	0.1833	0.00306	-269.665	16	0.2667	-268.635
0.2000	0.00333	-268.831	0.2000	0.00333	-269.665	17	0.2833	-268.635
0.2166	0.00361	-268.831	0.2166	0.00361	-269.668	18	0.3000	-268.638
0.2333	0.00389	-268.828	0.2333	0.00389	-269.665	19	0.3167	-268.638
0.2500	0.00417	-268.831	0.2500	0.00417	-269.668	20	0.3333	-268.638
0.2666	0.00444	-268.831	0.2666	0.00444	-269.665	21	0.3500	-268.638
0.2833	0.00472	-268.828	0.2833	0.00472	-269.665	22	0.3667	-268.638
0.3000	0.00500	-268.831	0.3000	0.00500	-269.665	23	0.3833	-268.641
0.3166	0.00528	-268.828	0.3166	0.00528	-269.665	24	0.4000	-268.641
0.3333	0.00556	-268.828	0.3333	0.00556	-269.665	25	0.4167	-268.641
0.4166	0.00694	-268.831	0.4166	0.00694	-269.665	26	0.4333	-268.641
0.5000	0.00833	-268.828	0.5000	0.00833	-269.665	27	0.4500	-268.644
0.5833	0.00972	-268.828	0.5833	0.00972	-269.665	28	0.4667	-268.644
0.6666	0.01111	-268.831	0.6666	0.01111	-269.662	29	0.4833	-268.644
0.7500	0.01250	-268.831	0.7500	0.01250	-269.665	30	0.5000	-268.647
0.8333	0.01389	-268.828	0.8333	0.01389	-269.665	31	0.5167	-268.654
0.9166	0.01528	-268.831	0.9166	0.01528	-269.665	32	0.5333	-268.654

299-W14-10 Slug Injections

1.0000	0.01667	-268.831	1.0000	0.01667	-269.665	33	0.5500	-268.657
1.0833	0.01806	-268.831	1.0833	0.01806	-269.665	34	0.5667	-268.657
1.1666	0.01944	-268.831	1.1666	0.01944	-269.665	35	0.5833	-268.657
1.2500	0.02083	-268.828	1.2500	0.02083	-269.668	36	0.6000	-268.657
1.3333	0.02222	-268.828	1.3333	0.02222	-269.665	37	0.6167	-268.657
1.4166	0.02361	-268.831	1.4166	0.02361	-269.665	38	0.6333	-268.657
1.5000	0.02500	-268.828	1.5000	0.02500	-269.665	39	0.6500	-268.657
1.5833	0.02639	-268.831	1.5833	0.02639	-269.665	40	0.6667	-268.657
1.6666	0.02778	-268.828	1.6666	0.02778	-269.665	41	0.6833	-268.657
1.7500	0.02917	-268.828	1.7500	0.02917	-269.665	42	0.7000	-268.660
1.8333	0.03056	-268.831	1.8333	0.03056	-269.665	43	0.7167	-268.660
1.9166	0.03194	-268.828	1.9166	0.03194	-269.665	44	0.7333	-268.657
2.0000	0.03333	-268.828	2.0000	0.03333	-269.665	45	0.7500	-268.660
2.5000	0.04167	-268.828	2.5000	0.04167	-269.665	46	0.7667	-268.660
3.0000	0.05000	-268.828	3.0000	0.05000	-269.665	47	0.7833	-268.660
3.5000	0.05833	-268.828	3.5000	0.05833	-269.665	48	0.8000	-268.660
4.0000	0.06667	-268.831	4.0000	0.06667	-269.662	49	0.8167	-268.660
4.5000	0.07500	-268.831	4.5000	0.07500	-269.668	50	0.8333	-268.660
5.0000	0.08333	-268.831	5.0000	0.08333	-269.665	51	0.8500	-268.660
5.5000	0.09167	-268.828	5.5000	0.09167	-269.665	52	0.8667	-268.660
6.0000	0.10000	-268.831	6.0000	0.10000	-269.665	53	0.8833	-268.660
6.5000	0.10833	-268.831	6.5000	0.10833	-269.665	54	0.9000	-268.660
7.0000	0.11667	-268.831	7.0000	0.11667	-269.665			
7.5000	0.12500	-268.831	7.5000	0.12500	-269.665			
8.0000	0.13333	-268.831	8.0000	0.13333	-269.665			
8.5000	0.14167	-268.831	8.5000	0.14167	-269.665			
9.0000	0.15000	-268.831	9.0000	0.15000	-269.665			
9.5000	0.15833	-268.831	9.5000	0.15833	-269.665			
10.0000	0.16667	-268.831	10.0000	0.16667	-269.665			
11.0000	0.18333	-268.831	11.0000	0.18333	-269.665			
12.0000	0.20000	-268.831	12.0000	0.20000	-269.665			
13.0000	0.21667	-268.831	13.0000	0.21667	-269.665			
14.0000	0.23333	-268.831	14.0000	0.23333	-269.665			
15.0000	0.25000	-268.831	15.0000	0.25000	-269.665			
16.0000	0.26667	-268.834	16.0000	0.26667	-269.665			
17.0000	0.28333	-268.831	17.0000	0.28333	-269.665			
18.0000	0.30000	-268.834	18.0000	0.30000	-269.668			
19.0000	0.31667	-268.834	19.0000	0.31667	-269.668			
20.0000	0.33333	-268.834	20.0000	0.33333	-269.665			
21.0000	0.35000	-268.834	21.0000	0.35000	-269.668			
22.0000	0.36667	-268.834	22.0000	0.36667	-269.668			
23.0000	0.38333	-268.834	23.0000	0.38333	-269.731			

299-W14-10 Slug Injections

24.0000	0.40000	-268.834	24.0000	0.40000	-269.791
25.0000	0.41667	-268.834			
26.0000	0.43333	-268.834			
27.0000	0.45000	-268.834			
28.0000	0.46667	-268.837			
29.0000	0.48333	-268.837			
30.0000	0.50000	-268.837			
31.0000	0.51667	-268.837			
32.0000	0.53333	-268.837			
33.0000	0.55000	-268.837			


299-W14-10 Slug Injection
18-Aug-93
Depth Below Top of 6" Casing (ft)
-268
-269
-270
-271
0.01
0.1
1
10
100
Time (min)
Slug Test# 1
Slug Test# 2
Baseline

INSTANTANEOUS SLUG TEST DATA SHEET: WITHDRAWAL

Borehole: 299-W14-10

Interval Tested: 268.62'-277' TOC 8"

Depth To Water: 268.62' TOC 8"

Depth to Transducer: 10.057' BWL

Measured by: Bret F. Strode

Slug Volume: BR-2 0.194 Cu ft

Barometric Reading:
Beginning: N/A End: N/A

Time:	Start	End
Baseline	0932	1027
Withdrawal	1157	1224

Date: 8-18-93

Initial Pressure (Pi): 268.62'

Slug Level/Pressure (Pmax) 268.493

Borehole Diameter: 8"

Time		Pressure	Time		Pressure	Time		Pressure
Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement

Withdraws difficult due to well not being Straight. Transducer effected by slug on withdrawal.

Recorded by: Robert S. Edrington Robert S. Edrington Date: 8-23-93
Sign and Print Name

BD-6000-293(07/90)

299-W14-10 Slug Withdrawal

Well 299-W14-10 Slug Withdrawal

Hermit Unit# 193
SWL: 268.610' TOC
Test# 3 Slug Withdrawal

Withdrawal: 11:57 8/18/93

Time:min	Time:hrs	D-T-W:Ft	d(WL):Ft
0.0000	0.00000	267.993	-267.993
0.0083	0.00014	268.493	-268.493
0.0166	0.00028	268.198	-268.198
0.0250	0.00042	267.847	-267.847
0.0333	0.00056	267.145	-267.145
0.0416	0.00069	267.225	-267.225
0.0500	0.00083	267.168	-267.168
0.0583	0.00097	267.136	-267.136
0.0666	0.00111	267.171	-267.171
0.0750	0.00125	267.171	-267.171
0.0833	0.00139	267.158	-267.158
0.1000	0.00167	267.158	-267.158
0.1166	0.00194	267.171	-267.171
0.1333	0.00222	267.187	-267.187
0.1500	0.00250	267.180	-267.180
0.1666	0.00278	267.190	-267.190
0.1833	0.00306	267.187	-267.187
0.2000	0.00333	267.177	-267.177
0.2166	0.00361	267.196	-267.196
0.2333	0.00389	267.187	-267.187
0.2500	0.00417	267.196	-267.196
0.2666	0.00444	267.193	-267.193
0.2833	0.00472	267.183	-267.183
0.3000	0.00500	267.183	-267.183
0.3166	0.00528	267.196	-267.196
0.3333	0.00556	267.193	-267.193
0.4166	0.00694	267.196	-267.196
0.5000	0.00833	267.196	-267.196
0.5833	0.00972	267.196	-267.196
0.6666	0.01111	267.196	-267.196
0.7500	0.01250	267.190	-267.190
0.8333	0.01389	267.193	-267.193

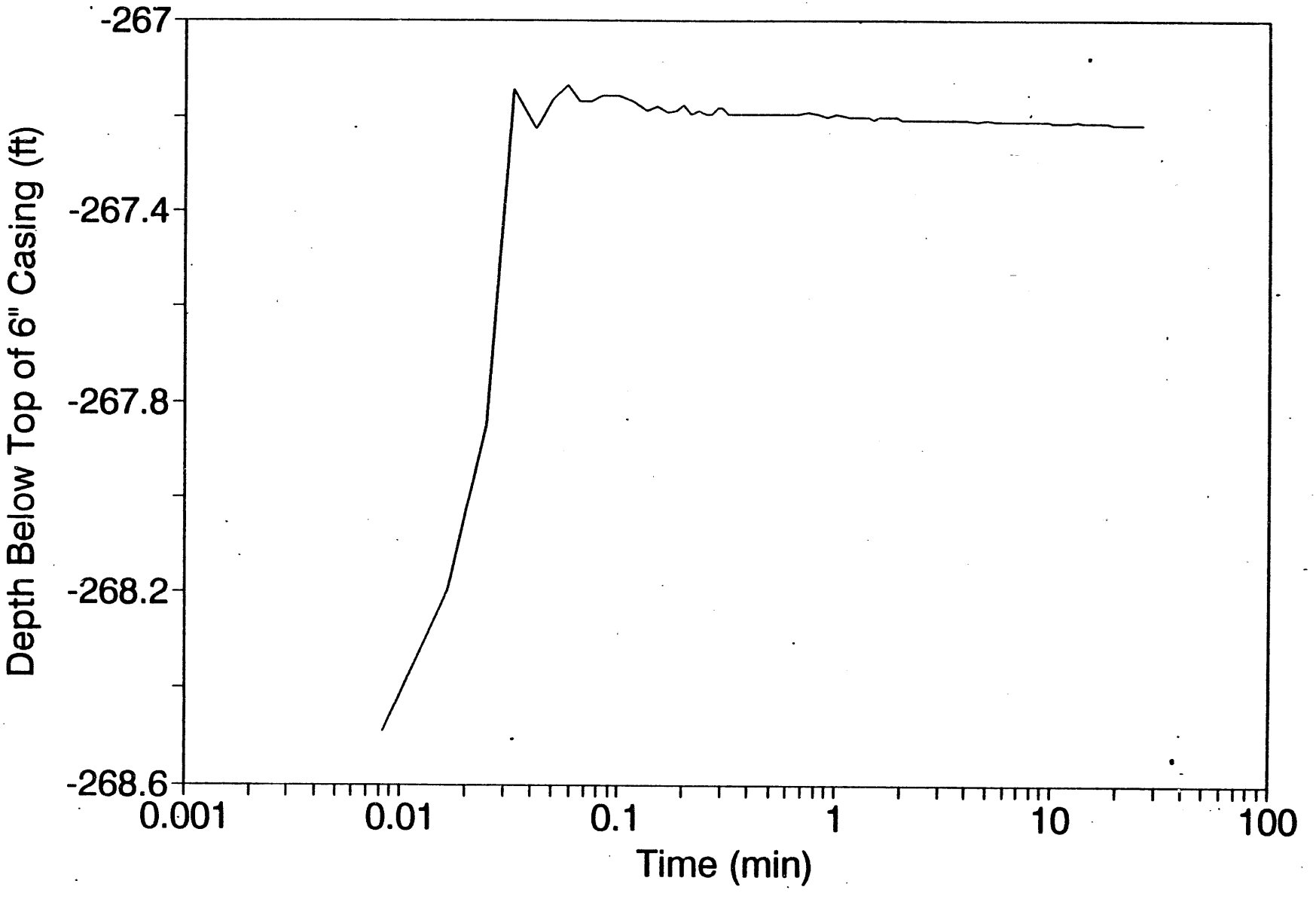
299-W14-10 Slug Withdrawal

0.9166	0.01528	267.202	-267.202
1.00	0 01667	267.193	-267.193
1.08	0.01806	267.199	-267.199
1.17	0.01944	267.202	-267.202
1.25	0.02083	267.202	-267.202
1.33	0.02222	267.202	-267.202
1.42	0.02361	267.202	-267.202
1.50	0.02500	267.206	-267.206
1.58	0.02639	267.202	-267.202
1.67	0.02778	267.202	-267.202
1.75	0.02917	267.202	-267.202
1.83	0.03056	267.202	-267.202
1.92	0.03194	267.202	-267.202
2.00	0.03333	267.206	-267.206
2.50	0.04167	267.206	-267.206
3.00	0.05000	267.206	-267.206
3.50	0.05833	267.206	-267.206
4.00	0.06667	267.206	-267.206
4.50	0.07500	267.209	-267.209
5.00	0.08333	267.206	-267.206
5.50	0.09167	267.209	-267.209
6.00	0.10000	267.209	-267.209
6.50	0.10833	267.209	-267.209
7.00	0.11667	267.209	-267.209
7.50	0.12500	267.209	-267.209
8.00	0.13333	267.209	-267.209
8.50	0.14167	267.209	-267.209
9.00	0.15000	267.209	-267.209
9.50	0.15833	267.209	-267.209
10.00	0.16667	267.212	-267.212
11.00	0.18333	267.212	-267.212
12.00	0.20000	267.212	-267.212
13.00	0.21667	267.209	-267.209
14.00	0.23333	267.212	-267.212
15.00	0.25000	267.212	-267.212
16.00	0.26667	267.212	-267.212
17.00	0.28333	267.212	-267.212
18.00	0.30000	267.212	-267.212
19.00	0.31667	267.215	-267.215
20.00	0.33333	267.215	-267.215
21.00	0.35000	267.215	-267.215
22.00	0.36667	267.215	-267.215

299-W14-10 Slug Withdrawal

23.00	0.38333	267.215	-267.215
24.00	0.40000	267.215	-267.215
25.00	0.41667	267.215	-267.215
26.00	0.43333	267.215	-267.215

299-W14-10 Slug Withdrawal
18-Aug-93



APPENDIX F

299-W19-4 SLUG TEST DATA

BOREHOLE TEST INFORMATION

page 1 of 1

Borehole 299-W19-4 Borehole Diameter 8 in. Hanford Coordinates N/A

Perforated interval 255'-280'* SWL 259.58' Test Type: Instantaneous Slug

Borehole Depth: 421'* Instruction Used: WHC-CM-7-7 (EII 10.1)

EQUIPMENT

NAME	DESCRIPTION	
Electric Sounder	Solinst s/n: ET-4	Calibration due: 1-30-94
Data Logger	In-Situ Inc. s/n: 2K-459	
Pressure Transducer	In-Situ Inc. s/n: 2044DE	Calibration due: 03-11-94
Slugging Rod	BR-1 0.390 Cu Ft	
Steel Measuring Tape	300' Graduated Steel Tape	

MEASUREMENT DATUM

Control Datum: Top of Casing (TOC) 8"

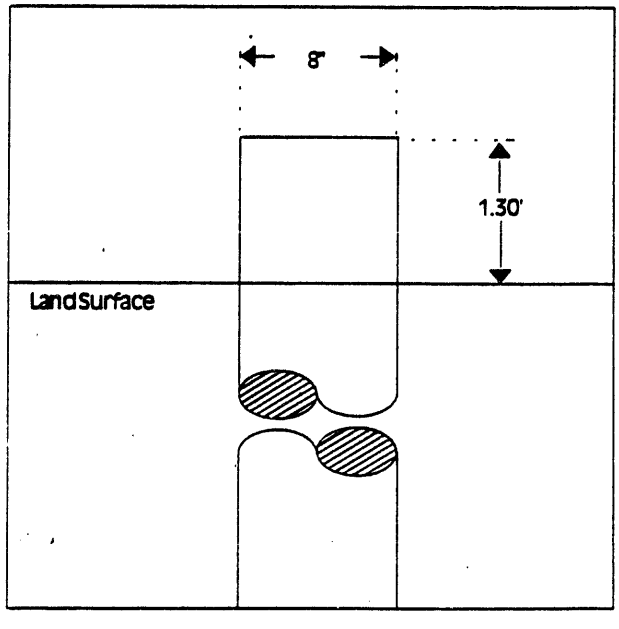
Elevation: N/A

Electric Sounder: TOC 8"

Steel Tape: TOC 8"

Pressure Transducer: TOC 8"

Well Head Diagram



COMMENTS

Slug test of upper 20' of water table using packer. *Packer set at 280' in a 421' borehole.

Recorded by: Robert S. Edrington R. S. Edrington Date: 12-29-93

Sign and Print Name

INSTANTANEOUS SLUG TEST DATA SHEET: INJECTION

Well no.: 299-W19-4

Screened interval: 255'-280' TOC 8"

Depth To Water: 259.58' TOC 8"

Depth to Transducer: 11.893' BWL

Measured by: B.F. Strode

Slug Volume: BR-3: 0.39 cu.ft

Barometric Reading (in Hg):
Beginning: 29.764 End: 29.772

Time:	Start	End
Baseline	1104	1118
Injection	1120	1145

Date: 10-25-93

Initial Pressure (Pi): -0.006'

Slug Level/Pressure (Pmax) 2.081'

Borehole Diameter: 9"

Time		Pressure	Time		Pressure	Time		Pressure
Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement

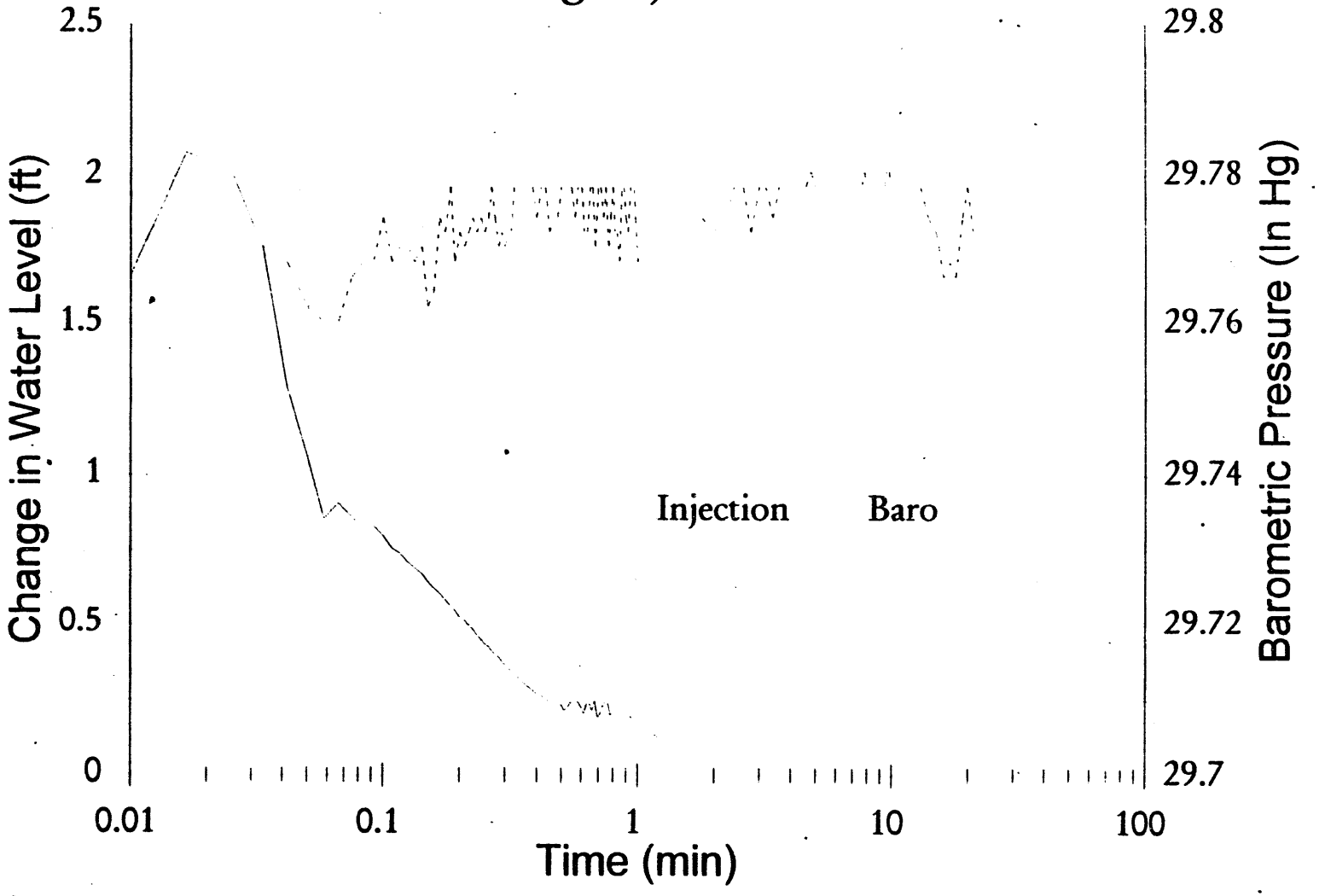
SEE ATTACHED DATA

Recorded by: Robert S. Edrington R. S. Edrington Date: 12-29-94
Sign and Print Name

BD-6000-293(07/90)

299-W19-4

Slug Injection



Well 299W-19-4
Slug Injection Test

Hermit Unit #2K-459
Test #1: Injection
Start Time: 11:20 10/25/93
SWL 259.58

Time:min	d(WL):Ft	Baro
0.0000	1.679	29.764
0.0083	1.515	29.770
0.0166	2.081	29.772
0.0250	2.018	29.768
0.0333	1.764	29.770
0.0416	1.290	29.768
0.0500	1.065	29.762
0.0583	0.854	29.760
0.0666	0.907	29.760
0.0750	0.863	29.766
0.0833	0.825	29.768
0.0916	0.835	29.768
0.1000	0.800	29.774
0.1083	0.759	29.768
0.1166	0.740	29.770
0.1250	0.711	29.770
0.1333	0.692	29.768
0.1416	0.673	29.770
0.1500	0.648	29.762
0.1583	0.626	29.764
0.1666	0.607	29.774
0.1750	0.588	29.772
0.1833	0.566	29.779
0.1916	0.553	29.768
0.2000	0.528	29.772
0.2083	0.518	29.770
0.2166	0.499	29.772
0.2250	0.487	29.774
0.2333	0.468	29.772
0.2416	0.452	29.774
0.2500	0.436	29.772
0.2583	0.427	29.774
0.2666	0.414	29.779
0.2750	0.401	29.774
0.2833	0.392	29.770
0.2916	0.379	29.772
0.3000	0.366	29.770
0.3083	0.357	29.772
0.3166	0.347	29.772
0.3250	0.338	29.779
0.3333	0.332	29.779
0.3500	0.313	29.779

Hermit Unit #2K-459
Test #0: Baseline
Time started: 11:04 10/25/93
SWL 259.58

Time:min	Time:hrs	d(WL):Ft	Baro
0	0.0000	0.000	29.770
1	0.0167	-0.003	29.781
2	0.0333	-0.003	29.781
3	0.0500	-0.006	29.783
4	0.0667	-0.003	29.783
5	0.0833	-0.003	29.783
6	0.1000	-0.006	29.783
7	0.1167	-0.006	29.783
8	0.1333	-0.003	29.783
9	0.1500	-0.006	29.783
10	0.1667	-0.006	29.783
11	0.1833	-0.003	29.783
12	0.2000	-0.003	29.779
13	0.2167	-0.006	29.783
14	0.2333	-0.006	29.783

299-W19-4 Slug Test with packer

0.3666	0.297	29.779
0.3833	0.284	29.779
0.4000	0.272	29.774
0.4166	0.265	29.779
0.4333	0.256	29.779
0.4500	0.243	29.772
0.4666	0.237	29.774
0.4833	0.240	29.774
0.5000	0.237	29.779
0.5166	0.215	29.779
0.5333	0.227	29.779
0.5500	0.243	29.779
0.5666	0.249	29.774
0.5833	0.246	29.779
0.6000	0.227	29.779
0.6166	0.205	29.772
0.6333	0.240	29.772
0.6500	0.237	29.779
0.6666	0.215	29.779
0.6833	0.246	29.770
0.7000	0.192	29.779
0.7166	0.205	29.779
0.7333	0.234	29.774
0.7500	0.243	29.779
0.7666	0.240	29.770
0.7833	0.199	29.774
0.8000	0.215	29.779
0.8166	0.215	29.772
0.8333	0.202	29.772
0.8500	0.211	29.768
0.8666	0.211	29.779
0.8833	0.211	29.779
0.9000	0.208	29.774
0.9166	0.202	29.772
0.9333	0.199	29.779
0.9500	0.192	29.779
0.9666	0.189	29.779
0.9833	0.183	29.774
1.0	0.180	29.768
1.2	0.129	29.774
1.4	0.094	29.774
1.6	0.072	29.774
1.8	0.056	29.774
2.0	0.047	29.772
2.2	0.037	29.774
2.4	0.034	29.779
2.6	0.028	29.779
2.8	0.025	29.772
3.0	0.022	29.779
3.2	0.022	29.779
3.4	0.018	29.774
3.6	0.018	29.779
3.8	0.015	29.779
4.0	0.015	29.779
4.2	0.015	29.779
4.4	0.015	29.779

4.6	0.015	29.779
4.8	0.015	29.781
5.0	0.015	29.779
5.2	0.015	29.779
5.4	0.012	29.779
5.6	0.012	29.779
5.8	0.012	29.779
6.0	0.012	29.779
6.2	0.012	29.779
6.4	0.012	29.779
6.6	0.009	29.779
6.8	0.009	29.779
7.0	0.012	29.779
7.2	0.012	29.779
7.4	0.012	29.779
7.6	0.009	29.779
7.8	0.009	29.781
8.0	0.009	29.779
8.2	0.009	29.779
8.4	0.009	29.779
8.6	0.009	29.779
8.8	0.009	29.779
9.0	0.009	29.779
9.2	0.009	29.779
9.4	0.009	29.779
9.6	0.009	29.781
9.8	0.009	29.781
10	0.009	29.779
11	0.009	29.779
12	0.009	29.779
13	0.009	29.779
14	0.009	29.774
15	0.009	29.772
16	0.009	29.766
17	0.012	29.768
18	0.012	29.766
19	0.012	29.774
20	0.012	29.779
21	0.012	29.772
22	0.009	29.772
23	0.012	29.772
24	0.012	29.772

INSTANTANEOUS SLUG TEST DATA SHEET: WITHDRAWAL

Page 1 of 1

Well no.: 299-W19-4

Screened interval: 255'-280' TOC 8"

Depth To Water: 259.58' TOC 8"

Depth to Transducer: 11.908' BWL

Measured by: B.F. Strode

Slug Volume: BR-3: 0.39 cu.ft

Barometric Reading (in Hg):
Beginning: 29.772 End: 29.762

Time:	Start	End
Baseline	1147	1157
Withdrawal	1158	1219

Date: 10-25-93

Initial Pressure (Pi): -0.003'

Slug Level/Pressure (Pmax) -1.217'

Borehole Diameter: 9"

Time		Pressure	Time		Pressure	Time		Pressure
Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement

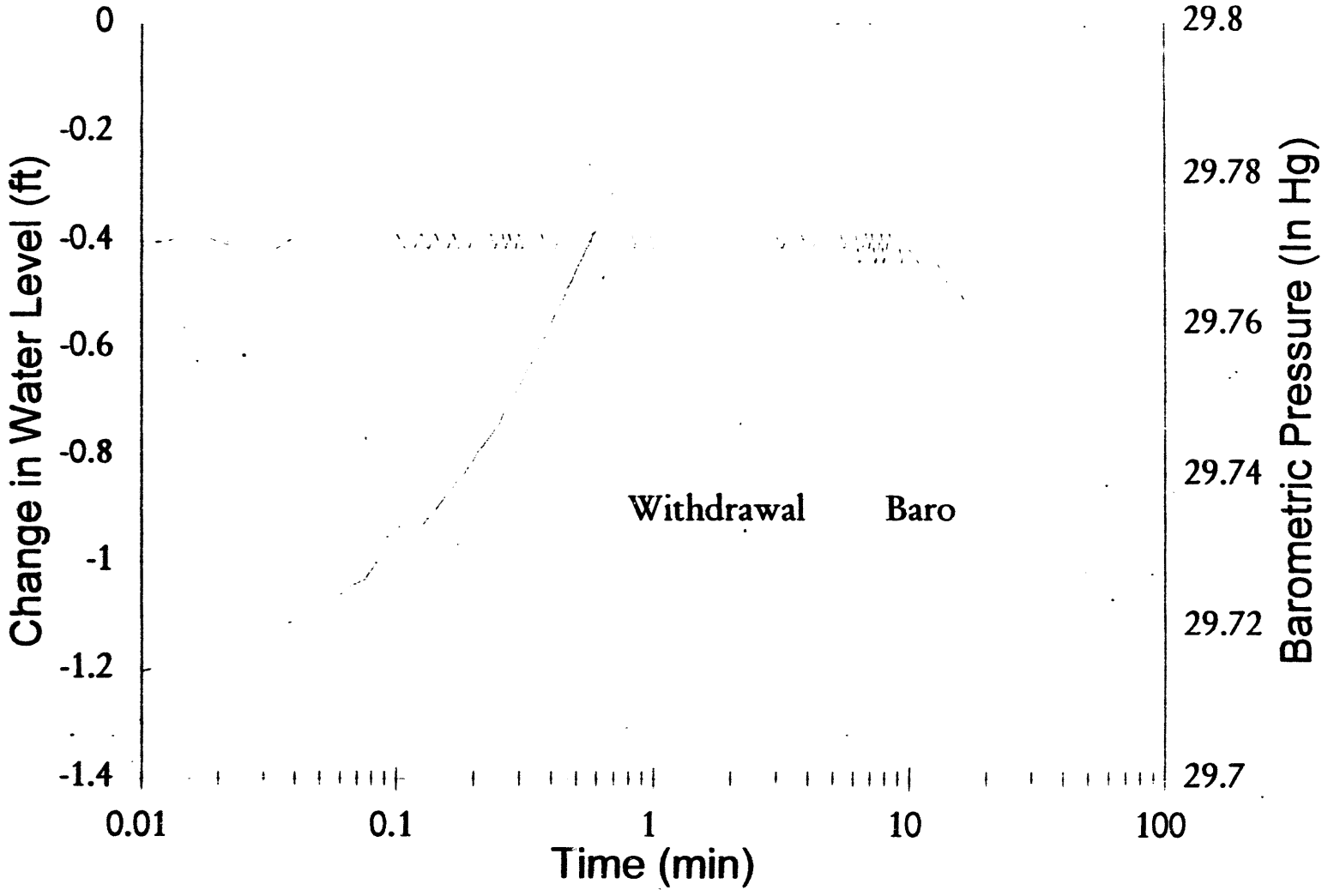
SEE ATTACHED DATA

Recorded by: [signature] R. S. Edrington Date: 12-29-94
Sign and Print Name

BD-6000-293(07/90)

299-W19-4

Slug Withdrawal



299-W19-4 Slug Test with packer

Well 299W-19-4
Slug Withdrawal Test

Hermit Unit# 2K-459
Test # 4

Time started: 11:58 10/25/93
SWL 259.58

Time:min	d(WL):Ft	Baro
0.0000	-0.499	29.772
0.0083	-1.217	29.770
0.0166	-1.163	29.772
0.0250	-1.129	29.770
0.0333	-1.113	29.770
0.0416	-1.094	29.772
0.0500	-1.078	29.772
0.0583	-1.065	29.772
0.0666	-1.043	29.772
0.0750	-1.031	29.772
0.0833	-1.002	29.772
0.0916	-0.980	29.772
0.1000	-0.967	29.772
0.1083	-0.952	29.770
0.1166	-0.942	29.770
0.1250	-0.933	29.772
0.1333	-0.917	29.770
0.1416	-0.904	29.772
0.1500	-0.888	29.770
0.1583	-0.872	29.770
0.1666	-0.860	29.772
0.1750	-0.841	29.770
0.1833	-0.835	29.770
0.1916	-0.822	29.770
0.2000	-0.809	29.772
0.2083	-0.793	29.772
0.2166	-0.784	29.772
0.2250	-0.771	29.772
0.2333	-0.762	29.772
0.2416	-0.749	29.770
0.2500	-0.743	29.772
0.2583	-0.724	29.772
0.2666	-0.711	29.770
0.2750	-0.705	29.772
0.2833	-0.692	29.770
0.2916	-0.683	29.770
0.3000	-0.673	29.772
0.3083	-0.661	29.770
0.3166	-0.651	29.772
0.3250	-0.638	29.772
0.3333	-0.632	29.772
0.3500	-0.610	29.772
0.3666	-0.591	29.772

Hermit Unit# 2K-459
Test# 3: Baseline

Start Time: 11:47 10/25/93

Time:min	d(WL):Ft	Baro
0	0.000	29.770
1	0.000	29.766
2	0.000	29.766
3	0.000	29.770
4	0.000	29.766
5	0.000	29.766
6	-0.003	29.768
7	-0.003	29.772
8	-0.003	29.772
9	-0.003	29.772
10	-0.003	29.772

299-W19-4 Slug Test with packer

0.3833	-0.575	29.770
0.4000	-0.556	29.770
0.4166	-0.537	29.770
0.4333	-0.521	29.772
0.4500	-0.506	29.772
0.4666	-0.487	29.772
0.4833	-0.474	29.772
0.5000	-0.458	29.772
0.5166	-0.442	29.772
0.5333	-0.430	29.772
0.5500	-0.414	29.772
0.5666	-0.404	29.772
0.5833	-0.389	29.772
0.6000	-0.379	29.772
0.6166	-0.363	29.772
0.6333	-0.351	29.772
0.6500	-0.341	29.772
0.6666	-0.332	29.772
0.6833	-0.319	29.772
0.7000	-0.309	29.772
0.7166	-0.300	29.772
0.7333	-0.290	29.772
0.7500	-0.281	29.772
0.7666	-0.272	29.772
0.7833	-0.262	29.772
0.8000	-0.256	29.772
0.8166	-0.246	29.772
0.8333	-0.240	29.772
0.8500	-0.230	29.770
0.8666	-0.224	29.772
0.8833	-0.218	29.772
0.9000	-0.211	29.772
0.9166	-0.205	29.772
0.9333	-0.199	29.772
0.9500	-0.192	29.772
0.9666	-0.186	29.772
0.9833	-0.180	29.772
1.0	-0.173	29.770
1.2	-0.120	29.772
1.4	-0.088	29.772
1.6	-0.060	29.772
1.8	-0.047	29.772
2.0	-0.034	29.772
2.2	-0.028	29.772
2.4	-0.022	29.772
2.6	-0.015	29.772
2.8	-0.012	29.772
3.0	-0.012	29.772
3.2	-0.009	29.770
3.4	-0.009	29.772
3.6	-0.006	29.772
3.8	-0.006	29.772
4.0	-0.006	29.770
4.2	-0.006	29.770
4.4	-0.006	29.772
4.6	-0.003	29.772

299-W19-4 Slug Test with packer

4.8	-0.003	29.772
5.0	-0.003	29.772
5.2	-0.003	29.772
5.4	0.000	29.772
5.6	0.000	29.770
5.8	0.000	29.772
6.0	0.000	29.772
6.2	0.000	29.772
6.4	0.000	29.768
6.6	0.000	29.770
6.8	0.000	29.772
7.0	0.000	29.770
7.2	-0.003	29.772
7.4	-0.003	29.768
7.6	-0.003	29.770
7.8	-0.003	29.772
8.0	-0.003	29.768
8.2	-0.003	29.770
8.4	-0.003	29.772
8.6	-0.003	29.770
8.8	-0.003	29.770
9.0	-0.003	29.770
9.2	-0.003	29.770
9.4	-0.003	29.768
9.6	-0.003	29.770
9.8	-0.003	29.770
10	-0.003	29.770
11	-0.006	29.768
12	-0.006	29.768
13	-0.006	29.768
14	-0.006	29.766
15	-0.009	29.764
16	-0.009	29.764
17	-0.009	29.762
18	-0.009	29.762
19	-0.012	29.762
20	-0.012	29.762
21	-0.015	29.762

FIELD ACTIVITY REPORT

Report 1 of ____

Page 1 of 1

Purpose: Aquifer testing

Date	Well/Excavation No.	Rig Type (2)	Contract/Work Order No.	Start Card No.
10/25/93	299W-19-4	Pump setting		

Operable Unit/Project: 200-UP-1

Reference: WHC-SD-EN-AP-130

Location: 600 yds East of U-plant

Activity:

-Slug test upper 20' of water table using a packer hung from one pump rig and slug from second rig

PERSONNEL:

FTL:

Geologist:

Driller: D. Gostivich

Helper: P. Parish - D. Hollingsworth

HPT: R. Palmer

SSO:

Other: B. Strode

TIME: Start: 1000 Finish: ____

DELAYS/EXPLANATIONS: ____

Description of Operations/Remarks

1000 on site 299W-19-4 EPS personnel have pulled sampling pump. are now setting packer. Scrk 259.58 (ET-4)
1044 packer is set at 280.00'
1104 Start test #1 Baseline Hermit #2K-459 XD-#2044DE ( ) Depth 11.883 Barroprobe # 301016
11:18 End test #1
11:20 Start test #2 injection of slug BR-1 (0.390 CU.FT.) Depth 11.883
11:45 End test #2
11:47 Start test #3 Baseline for withdrawal Depth 11.908
11:57 End test #3
11:58 Start test #4 withdrawal Depth 11.908
12:19 End test #4

Report By: B F Strode (Print) [signature] (Sign) Date: 10/25/93

Title/Company: Equipment Technician Wilcox

A-6001-123 (03/93)

APPENDIX G

299-W22-41 SLUG TEST DATA

BOREHOLE TEST INFORMATION

page 1 of 1

Borehole 299-W22-41 Borehole Diameter 4 in. Hanford Coordinates N/A

Interval Tested 236.28'-248.58' Depth Interval 227.38'-248.58' Test Type: Instantaneous Slug

Borehole Depth: 248.58' Instruction Used: WHC-CM-7-7 (EII 10.1)

EQUIPMENT

NAME	DESCRIPTION
Electric Sounder	Solinst s/n: ET-4 Calibration due: 1-30-94
Data Logger	In-Situ Inc. s/n: 2K-192
Pressure Transducer	In-Situ Inc. s/n: 2246 Calibration due: 3-11-94
Slugging Rod	BR-2: 0.194 Cu. Ft.
Steel Measuring Tape	300' Graduated Steel Tape

MEASUREMENT DATUM

Control Datum: Top of Casing (TOC) 6"

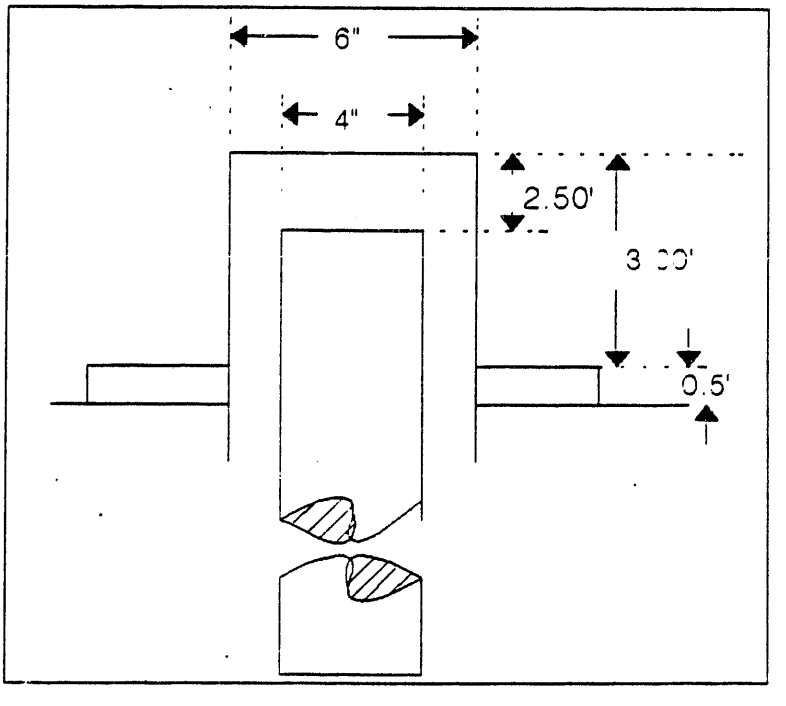
Elevation: N/A

Electric Sounder: TOC 6"

Steel Tape: TOC 6"

Pressure Transducer: TOC 6"

WELL HEAD DIAGRAM



COMMENTS

Recorded by: Robert S. Edrington Date: 8/16 93

Sign and Print Name

FIELD ACTIVITY REPORT

Report 1 of ____

Page 1 of 1

Purpose: Aquifer Testing

Date	Well/Excavation No.	Rig Type	Contract/Work Order No.	Start Card No.
8/11/93	299W-22-41	Pump Setting SMCAL ST	PLB 53	

Operable Unit/Project: 200 UP-1

Location: 200 W Mid-Point Between "S" and "U" Plants

Reference: WHC-SD-EN-AP-130 REV 1

Activity: Slug test

PERSONNEL:

FTL:

Geologist:

Driller: T Hottell WHC # 1845

Helper: D Hollingsworth WHC

HPT: —

SSO:

Other: B. Stroud MCE/WHC

TIME: Start: 1133 Finish: 1340

DELAYS/EXPLANATIONS:

Description of Operations/Remarks

1133 - On Site 299W-22-41 SWL 236.28 ET-4 (1-30-94) Tag TOCC 248.54
11.56 Start test #4 Baseline X-ducer #2246 3-11-94 - Hermit #2K-192 Depth 11.687
12:21 Stop test #4
1222 Start test #5 injection (BL-2 .194 Cu. ft)
1246 Stop test #5
1247 Start test #6 Baseline
1310 Stop test #6
1312 Start test #7 Withdrawl
1336 Stop test #7
1340 Well Head Secure

Report By: R. F. Stroud (Print) [signature] (Sign) Date: 8/11/93

Title/Company: Equipment Tech. MCE/WHC

A-6001-123 (03/93)

NSTANTANEOUS SLUG TEST DATA SHEET: INJECTION

Borehole: 299-W22-41

Interval Tested: 236.28'-248.58' TOC 6"

Depth To Water: 236.28' TOC 6"

Depth to Transducer: 11.687' BWL

Measured by: Bret F. Strode

Slug Volume: BR-2 0.194 Cu ft

Barometric Reading:

Beginning: N/A End: N/A

Time:	Start	End
Baseline	1156	1221
Injection	1222	1246

Date: 8-11-93

Initial Pressure (Pi): 236.280'

Slug Level/Pressure (Pmax) 234.637'

Borehole Diameter: 4"

Time		Pressure	Time		Pressure	Time		Pressure
Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement
		See Attached.						
					See Attached.			

Recorded by: Robert S. Edrington Date: 8-16-93

Sign and Print Name

BD-6000-293(07/90)

299-W22-41 Slug Injection

299-W22-41 Slug Injection

Datalogger: Hermit Unit# 192
Input #1
Water Level in Feet below top of Casing
SWL: 236.280'

Test 5 Injection
Injection: 12:22 8/11/93

Time:min	Time:hrs	D-T-W:Ft	d(WL):Ft
0.0000	0.00000	232.137	-232.137
0.0083	0.00014	233.891	-233.891
0.0166	0.00028	232.534	-232.534
0.0250	0.00042	232.213	-232.213
0.0333	0.00056	235.130	-235.130
0.0416	0.00069	234.612	-234.612
0.0500	0.00083	234.637	-234.637
0.0583	0.00097	234.548	-234.548
0.0666	0.00111	234.599	-234.599
0.0750	0.00125	234.609	-234.609
0.0833	0.00139	234.653	-234.653
0.0916	0.00153	234.682	-234.682
0.1000	0.00167	234.710	-234.710
0.1083	0.00181	234.729	-234.729
0.1166	0.00194	234.742	-234.742
0.1250	0.00208	234.774	-234.774
0.1333	0.00222	234.786	-234.786
0.1416	0.00236	234.812	-234.812
0.1500	0.00250	234.828	-234.828
0.1583	0.00264	234.847	-234.847
0.1666	0.00278	234.866	-234.866
0.1750	0.00292	234.885	-234.885
0.1833	0.00306	234.901	-234.901
0.1916	0.00319	234.923	-234.923
0.2000	0.00333	234.933	-234.933
0.2083	0.00347	234.955	-234.955
0.2166	0.00361	234.974	-234.974
0.2250	0.00375	234.983	-234.983
0.2333	0.00389	235.006	-235.006
0.2416	0.00403	235.018	-235.018
0.2500	0.00417	235.037	-235.037

Test 4 Baseline
Baseline Start: 11:56 8/11/93

Time:min	Time:hrs	D-T-W:Ft	d(WL):Ft
0	0.0000	236.280	-236.280
1	0.0167	236.280	-236.280
2	0.0333	236.280	-236.280
3	0.0500	236.283	-236.283
4	0.0667	236.283	-236.283
5	0.0833	236.280	-236.280
6	0.1000	236.280	-236.280
7	0.1167	236.280	-236.280
8	0.1333	236.273	-236.273
9	0.1500	236.273	-236.273
10	0.1667	236.273	-236.273
11	0.1833	236.273	-236.273
12	0.2000	236.273	-236.273
13	0.2167	236.267	-236.267
14	0.2333	236.267	-236.267
15	0.2500	236.267	-236.267
16	0.2667	236.264	-236.264
17	0.2833	236.264	-236.264
18	0.3000	236.260	-236.260
19	0.3167	236.257	-236.257
20	0.3333	236.260	-236.260
21	0.3500	236.260	-236.260
22	0.3667	236.257	-236.257
23	0.3833	236.257	-236.257
24	0.4000	236.254	-236.254
25	0.4167	236.248	-236.248

299-W22-41 Slug Injection

0.2583	0.00431	235.050	-235.050
0.2666	0.00444	235.063	-235.063
0.2750	0.00458	235.079	-235.079
0.2833	0.00472	235.091	-235.091
0.2916	0.00486	235.107	-235.107
0.3000	0.00500	235.120	-235.120
0.3083	0.00514	235.136	-235.136
0.3166	0.00528	235.149	-235.149
0.3250	0.00542	235.161	-235.161
0.3333	0.00556	235.174	-235.174
0.3500	0.00583	235.199	-235.199
0.3666	0.00611	235.225	-235.225
0.3833	0.00639	235.253	-235.253
0.4000	0.00667	235.276	-235.276
0.4166	0.00694	235.298	-235.298
0.4333	0.00722	235.323	-235.323
0.4500	0.00750	235.346	-235.346
0.4666	0.00778	235.368	-235.368
0.4833	0.00806	235.387	-235.387
0.5000	0.00833	235.406	-235.406
0.5166	0.00861	235.428	-235.428
0.5333	0.00889	235.447	-235.447
0.5500	0.00917	235.466	-235.466
0.5666	0.00944	235.485	-235.485
0.5833	0.00972	235.504	-235.504
0.6000	0.01000	235.523	-235.523
0.6166	0.01028	235.539	-235.539
0.6333	0.01056	235.555	-235.555
0.6500	0.01083	235.571	-235.571
0.6666	0.01111	235.587	-235.587
0.6833	0.01139	235.603	-235.603
0.7000	0.01167	235.619	-235.619
0.7166	0.01194	235.631	-235.631
0.7333	0.01222	235.647	-235.647
0.7500	0.01250	235.660	-235.660
0.7666	0.01278	235.673	-235.673
0.7833	0.01306	235.689	-235.689
0.8000	0.01333	235.701	-235.701
0.8166	0.01361	235.714	-235.714
0.8333	0.01389	235.727	-235.727
0.8500	0.01417	235.739	-235.739
0.8666	0.01444	235.749	-235.749

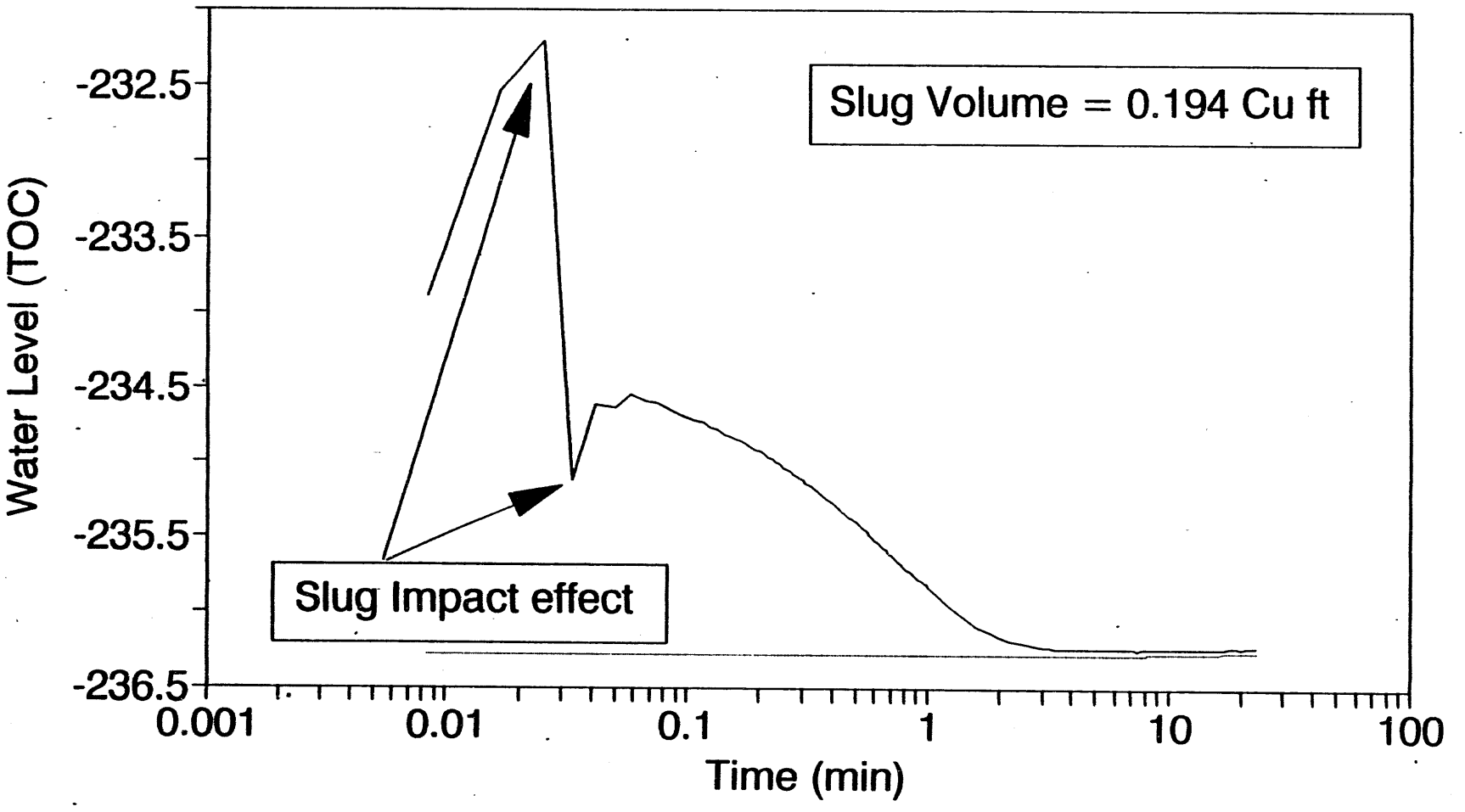
299-W22-41 Slug Injection

0.8833	0.01472	235.762	-235.762
0.9000	0.01500	235.774	-235.774
0.9166	0.01528	235.784	-235.784
0.9333	0.01556	235.793	-235.793
0.9500	0.01583	235.806	-235.806
0.9666	0.01611	235.816	-235.816
0.9833	0.01639	235.822	-235.822
1.00	0.01667	235.835	-235.835
1.20	0.02000	235.949	-235.949
1.40	0.02333	236.032	-236.032
1.60	0.02667	236.092	-236.092
1.80	0.03000	236.133	-236.133
2.00	0.03333	236.162	-236.162
2.20	0.03667	236.184	-236.184
2.40	0.04000	236.200	-236.200
2.60	0.04333	236.210	-236.210
2.80	0.04667	236.219	-236.219
3.00	0.05000	236.226	-236.226
3.20	0.05333	236.229	-236.229
3.40	0.05667	236.235	-236.235
3.60	0.06000	236.235	-236.235
3.80	0.06333	236.238	-236.238
4.00	0.06667	236.238	-236.238
4.20	0.07000	236.241	-236.241
4.40	0.07333	236.241	-236.241
4.60	0.07667	236.241	-236.241
4.80	0.08000	236.241	-236.241
5.00	0.08333	236.241	-236.241
5.20	0.08667	236.241	-236.241
5.40	0.09000	236.241	-236.241
5.60	0.09333	236.238	-236.238
5.80	0.09667	236.241	-236.241
6.00	0.10000	236.241	-236.241
6.20	0.10333	236.241	-236.241
6.40	0.10667	236.241	-236.241
6.60	0.11000	236.241	-236.241
6.80	0.11333	236.241	-236.241
7.00	0.11667	236.241	-236.241
7.20	0.12000	236.241	-236.241
7.40	0.12333	236.245	-236.245
7.60	0.12667	236.241	-236.241
7.80	0.13000	236.241	-236.241

299-W22-41 Slug Injection

8.00	0.13333	236.238	-236.238
8.20	0.13667	236.241	-236.241
8.40	0.14000	236.241	-236.241
8.60	0.14333	236.241	-236.241
8.80	0.14667	236.241	-236.241
9.00	0.15000	236.241	-236.241
9.20	0.15333	236.241	-236.241
9.40	0.15667	236.241	-236.241
9.60	0.16000	236.241	-236.241
9.80	0.16333	236.241	-236.241
10.00	0.16667	236.241	-236.241
11.00	0.18333	236.241	-236.241
12.00	0.20000	236.241	-236.241
13.00	0.21667	236.241	-236.241
14.00	0.23333	236.238	-236.238
15.00	0.25000	236.235	-236.235
16.00	0.26667	236.235	-236.235
17.00	0.28333	236.235	-236.235
18.00	0.30000	236.232	-236.232
19.00	0.31667	236.232	-236.232
20.00	0.33333	236.235	-236.235
21.00	0.35000	236.232	-236.232
22.00	0.36667	236.232	-236.232
23.00	0.38333	236.229	-236.229

299-W22-41 Slug Injection
11-Aug-93



Slug Injection — Baseline

INSTANTANEOUS SLUG TEST DATA SHEET WITHDRAWAL

Borehole: 299-W22-41

Interval Tested: 236.28'-248.58' TOC 6"

Depth To Water: 236.28' TOC 6"

Depth to Transducer: 11.687' BWL

Measured by: Bret F. Strode

Slug Volume: BR-2 0.194 Cu ft

Barometric Reading:
Beginning: N/A End: N/A

Time:	Start	End
Baseline	1247	1310
Withdrawal	1312	1336

Date: 8-11-93

Initial Pressure (Pi): 236.280'

Slug Level/Pressure (Pmax) 238.221'

Borehole Diameter: 4"

Time		Pressure	Time		Pressure	Time		Pressure
Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement
		See Attached.						
					See Attached.			

Recorded by: Robert S. Edrington Date 8-16-93
Sign and Print Name

BD-6000-293(07/90)

299-W22-41 Slug Withdrawal

299-W22-41 Slug Withdrawal

Datalogger: Hermit Unit# 192
Input #1
Water Level in Feet below top of Casing
SWL: 236.280'

Test 7 Withdrawal
Withdrawal: 13:11 8/11/93

Time:min	Time:hrs	D-T-W:Ft	d(WL):Ft
0.0000	0.00000	237.534	-237.534
0.0083	0.00014	238.221	-238.221
0.0166	0.00028	238.201	-238.201
0.0250	0.00042	238.176	-238.176
0.0333	0.00056	238.144	-238.144
0.0416	0.00069	238.125	-238.125
0.0500	0.00083	238.090	-238.090
0.0583	0.00097	238.068	-238.068
0.0666	0.00111	238.062	-238.062
0.0750	0.00125	238.033	-238.033
0.0833	0.00139	237.992	-237.992
0.0916	0.00153	237.989	-237.989
0.1000	0.00167	237.970	-237.970
0.1083	0.00181	237.947	-237.947
0.1166	0.00194	237.919	-237.919
0.1250	0.00208	237.890	-237.890
0.1333	0.00222	237.871	-237.871
0.1416	0.00236	237.855	-237.855
0.1500	0.00250	237.839	-237.839
0.1583	0.00264	237.817	-237.817
0.1666	0.00278	237.808	-237.808
0.1750	0.00292	237.776	-237.776
0.1833	0.00306	237.763	-237.763
0.1916	0.00319	237.763	-237.763
0.2000	0.00333	237.715	-237.715
0.2083	0.00347	237.715	-237.715
0.2166	0.00361	237.693	-237.693
0.2250	0.00375	237.687	-237.687
0.2333	0.00389	237.661	-237.661
0.2416	0.00403	237.639	-237.639
0.2500	0.00417	237.639	-237.639

Test 6 Baseline
Baseline Start: 12:47 8/11/93

Time:min	Time:hrs	D-T-W:Ft	d(WL):Ft
0	0.0000	236.229	-236.229
1	0.0167	236.229	-236.229
2	0.0333	236.232	-236.232
3	0.0500	236.229	-236.229
4	0.0667	236.232	-236.232
5	0.0833	236.229	-236.229
6	0.1000	236.229	-236.229
7	0.1167	236.232	-236.232
8	0.1333	236.229	-236.229
9	0.1500	236.226	-236.226
10	0.1667	236.229	-236.229
11	0.1833	236.229	-236.229
12	0.2000	236.226	-236.226
13	0.2167	236.222	-236.222
14	0.2333	236.222	-236.222
15	0.2500	236.219	-236.219
16	0.2667	236.219	-236.219
17	0.2833	236.222	-236.222
18	0.3000	236.219	-236.219
19	0.3167	236.219	-236.219
20	0.3333	236.219	-236.219
21	0.3500	236.219	-236.219

299-W22-41 Slug Withdrawal

0.2583	0.00431	237.607	-237.607
0.2666	0.00444	237.595	-237.595
0.2750	0.00458	237.579	-237.579
0.2833	0.00472	237.560	-237.560
0.2916	0.00486	237.538	-237.538
0.3000	0.00500	237.525	-237.525
0.3083	0.00514	237.522	-237.522
0.3166	0.00528	237.509	-237.509
0.3250	0.00542	237.484	-237.484
0.3333	0.00556	237.461	-237.461
0.3500	0.00583	237.439	-237.439
0.3666	0.00611	237.423	-237.423
0.3833	0.00639	237.388	-237.388
0.4000	0.00667	237.366	-237.366
0.4166	0.00694	237.341	-237.341
0.4333	0.00722	237.321	-237.321
0.4500	0.00750	237.287	-237.287
0.4666	0.00778	237.255	-237.255
0.4833	0.00806	237.239	-237.239
0.5000	0.00833	237.213	-237.213
0.5166	0.00861	237.191	-237.191
0.5333	0.00889	237.169	-237.169
0.5500	0.00917	237.144	-237.144
0.5666	0.00944	237.128	-237.128
0.5833	0.00972	237.105	-237.105
0.6000	0.01000	237.086	-237.086
0.6166	0.01028	237.064	-237.064
0.6333	0.01056	237.045	-237.045
0.6500	0.01083	237.029	-237.029
0.6666	0.01111	237.010	-237.010
0.6833	0.01139	236.991	-236.991
0.7000	0.01167	236.975	-236.975
0.7166	0.01194	236.956	-236.956
0.7333	0.01222	236.940	-236.940
0.7500	0.01250	236.924	-236.924
0.7666	0.01278	236.909	-236.909
0.7833	0.01306	236.893	-236.893
0.8000	0.01333	236.877	-236.877
0.8166	0.01361	236.855	-236.855
0.8333	0.01389	236.848	-236.848
0.8500	0.01417	236.832	-236.832
0.8666	0.01444	236.820	-236.820

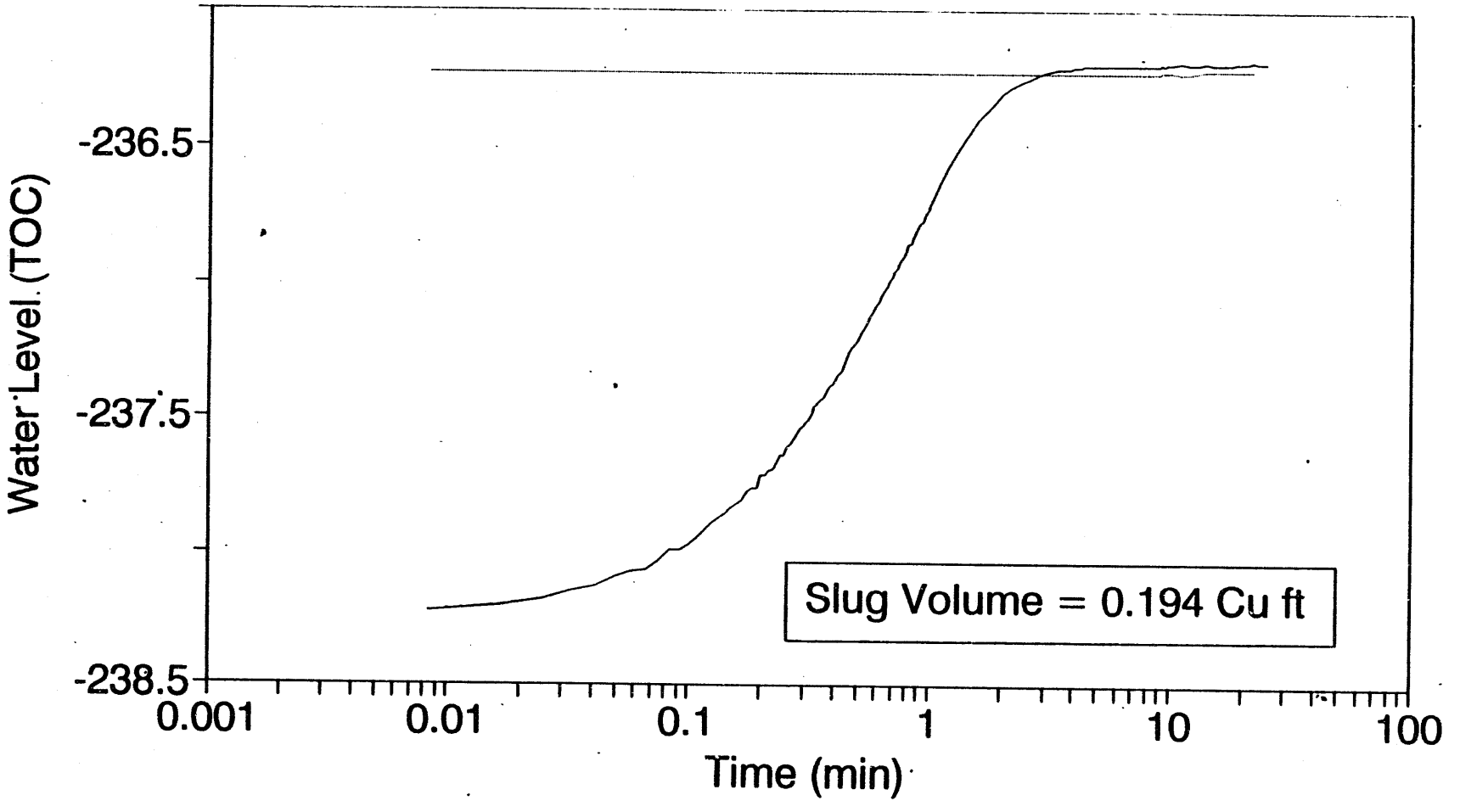
299-W22-41 Slug Withdrawal

0.8833	0.01472	236.804	-236.804
0.9000	0.01500	236.791	-236.791
0.9166	0.01528	236.778	-236.778
0.9333	0.01556	236.766	-236.766
0.9500	0.01583	236.750	-236.750
0.9666	0.01611	236.740	-236.740
0.9833	0.01639	236.731	-236.731
1.00	0.01667	236.715	-236.715
1.20	0.02000	236.572	-236.572
1.40	0.02333	236.473	-236.473
1.60	0.02667	236.400	-236.400
1.80	0.03000	236.346	-236.346
2.00	0.03333	236.308	-236.308
2.20	0.03667	236.283	-236.283
2.40	0.04000	236.260	-236.260
2.60	0.04333	236.248	-236.248
2.80	0.04667	236.235	-236.235
3.00	0.05000	236.226	-236.226
3.20	0.05333	236.219	-236.219
3.40	0.05667	236.213	-236.213
3.60	0.06000	236.210	-236.210
3.80	0.06333	236.210	-236.210
4.00	0.06667	236.206	-236.206
4.20	0.07000	236.206	-236.206
4.40	0.07333	236.203	-236.203
4.60	0.07667	236.203	-236.203
4.80	0.08000	236.203	-236.203
5.00	0.08333	236.200	-236.200
5.20	0.08667	236.203	-236.203
5.40	0.09000	236.203	-236.203
5.60	0.09333	236.203	-236.203
5.80	0.09667	236.203	-236.203
6.00	0.10000	236.203	-236.203
6.20	0.10333	236.203	-236.203
6.40	0.10667	236.200	-236.200
6.60	0.11000	236.203	-236.203
6.80	0.11333	236.203	-236.203
7.00	0.11667	236.203	-236.203
7.20	0.12000	236.203	-236.203
7.40	0.12333	236.203	-236.203
7.60	0.12667	236.200	-236.200
7.80	0.13000	236.200	-236.200

299-W22-41 Slug Withdrawal

8.00	0.13333	236.200	-236.200
8.20	0.13667	236.200	-236.200
8.40	0.14000	236.200	-236.200
8.60	0.14333	236.200	-236.200
8.80	0.14667	236.200	-236.200
9.00	0.15000	236.200	-236.200
9.20	0.15333	236.197	-236.197
9.40	0.15667	236.200	-236.200
9.60	0.16000	236.197	-236.197
9.80	0.16333	236.197	-236.197
10.00	0.16667	236.194	-236.194
11.00	0.18333	236.191	-236.191
12.00	0.20000	236.197	-236.197
13.00	0.21667	236.194	-236.194
14.00	0.23333	236.191	-236.191
15.00	0.25000	236.194	-236.194
16.00	0.26667	236.197	-236.197
17.00	0.28333	236.194	-236.194
18.00	0.30000	236.194	-236.194
19.00	0.31667	236.191	-236.191
20.00	0.33333	236.191	-236.191
21.00	0.35000	236.191	-236.191
22.00	0.36667	236.184	-236.184
23.00	0.38333	236.187	-236.187
24.00	0.40000	236.191	-236.191
25.00	0.41667	236.187	-236.187

299-W22-41 Slug Withdrawal
11-Aug-93



Slug Withdrawal — Baseline

APPENDIX H

699-35-70 SLUG TEST DATA

BOREHOLE TEST INFORMATION

Borehole 699-35-70 Borehole Diameter 8 in. Hanford Coordinates N/A

Interval Tested 244.97'-263.84' Perf'ed Interval Unknown Test Type: Instantaneous Slug

Borehole Depth: 263.84' Instruction Used: WHC-C[illegible]-7-7 (Ell 10.1)

EQUIPMENT

NAME	DESCRIPTION
Electric Sounder	Solinst s/n: ET-4 Calibration due: 1-30-94
Data Logger	In-Situ Inc. s/n: 2K-459
Pressure Transducer	In-Situ Inc. s/n: 2246 Calibration due: 3-11-94
Slugging Rod	BR-2: 0.194 Cu. Ft.
Steel Measuring Tape	300' Graduated Steel Tape

MEASUREMENT DATUM

Control Datum: Top of Casing (TOC) 8"

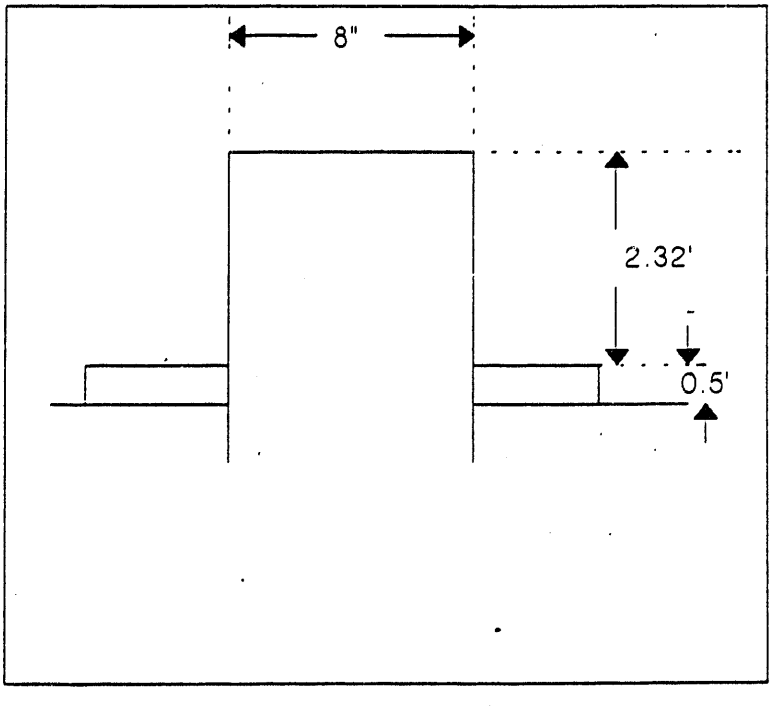
Elevation: N/A

Electric Sounder: TOC 8"

Steel Tape: TOC 8"

Pressure Transducer: TOC 8"

WELL HEAD DIAGRAM



COMMENTS

No Data on perforation interval found.

Recorded by: Robert S. Edrington Date: 8/16/93

Sign and Print Name

FIELD ACTIVITY REPORT

Report 1 of ____

Page 1 of 1

Purpose: Aquifer Testing

Date	Well/Excavation No.	Rig Type	Contract/Work Order No.	Start Card No.
5/10/93	699-35-70	(Small Pump Setting ST)	PLB53	

Operable Unit/Project: 200 UP-1

Reference: WHC-SD-EN-AP-43 REV 1

Location: 3/4 mi East of 3S-Plant

Activity: Slug Test

PERSONNEL:

FTL:

Geologist:

Driller: T. Hattell License # 1845 WHC

Helper:

HPT: J. Brown WHC

SSO:

Other: B Strode Equipment Tech. MCE/WHC

TIME: Start: 0730 Finish: 1120

DELAYS/EXPLANATIONS: None

Description of Operations/Remarks

0730 - Meet T Hattell at KEH Drill yard pick-up Slug's from
— J. Davis (KEH)
0820 - On Site 699-35-70, SWL 244.97' ET-4 Expires 1/30/94
— Tag bottom @ 263.84' T.O.C 8"
0900 - Begin baseline test #0 x-ducer depth 18.382, # 1246 expires 3/11/94
— Hermit # 2K-459
0925 - End Test #0 ~~#~~ .194
0930 - Start Test #1 injection BR-2 (~~1.97~~ Cu. Ft)
1010 - End test #1
1012 - Start Test #2 baseline (18.532)
1034 - End Test #2
1036 Start test #3 withdrawal (18.516)
1110 - End test #3
1120 - Well Head Secured leave site

Report By: B F Strode (Print) [signature] (Sign) Date: 5/10/93

Title/Company: Equipment Technician MCE/WHC

A-6001-123 (03/93)

INSTANTANEOUS SLUG TEST DATA SHEET: INJECTION

Borehole: 699-35-70

Interval Tested: 244.97'-263.84' TOC 8"

Depth To Water: 244.97' TOC 8"

Depth to Transducer: 18.382' BWL

Measured by: Bret F. Strode

Slug Volume: BR-2 0.194 Cu ft

Barometric Reading:

Beginning: N/A End: N/A

Time:	Start	End
Baseline	0900	0925
Injection	0930	1010

Date: 8-10-93

Initial Pressure (Pi): 244.970'

Slug Level/Pressure (Pmax) 244.601'

Borehole Diameter: 8"

Time		Pressure	Time		Pressure	Time		Pressure
Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement

Recorded by: Robert S. Edrington Date: 8-16-93

Sign and Print Name

BD-6000-293(07/90)

Well 699-35-70
Slug Injection Test

Datalogger Hermit Unit #459
Test #1 Input: 1
SWL: 244.970' TOC
Slug Injected: 9:30 8/10/93

Time:min	Time:hrs	D-T-W:Ft	d(WL):Ft
0.000	0.00000	244.512	-244.512
0.008	0.00014	244.344	-244.344
0.017	0.00028	244.236	-244.236
0.025	0.00042	244.601	-244.601
0.033	0.00056	244.687	-244.687
0.042	0.00069	244.696	-244.696
0.050	0.00083	244.750	-244.750
0.058	0.00097	244.773	-244.773
0.067	0.00111	244.820	-244.820
0.075	0.00125	244.827	-244.827
0.083	0.00139	244.795	-244.795
0.092	0.00153	244.811	-244.811
0.100	0.00167	244.827	-244.827
0.108	0.00181	244.836	-244.836
0.117	0.00194	244.842	-244.842
0.125	0.00208	244.849	-244.849
0.133	0.00222	244.861	-244.861
0.142	0.00236	244.865	-244.865
0.150	0.00250	244.871	-244.871
0.158	0.00264	244.874	-244.874
0.167	0.00278	244.881	-244.881
0.175	0.00292	244.881	-244.881
0.183	0.00306	244.887	-244.887
0.192	0.00319	244.890	-244.890
0.200	0.00333	244.896	-244.896
0.208	0.00347	244.896	-244.896
0.217	0.00361	244.896	-244.896
0.225	0.00375	244.900	-244.900
0.233	0.00389	244.903	-244.903
0.242	0.00403	244.903	-244.903
0.250	0.00417	244.903	-244.903
0.258	0.00431	244.906	-244.906

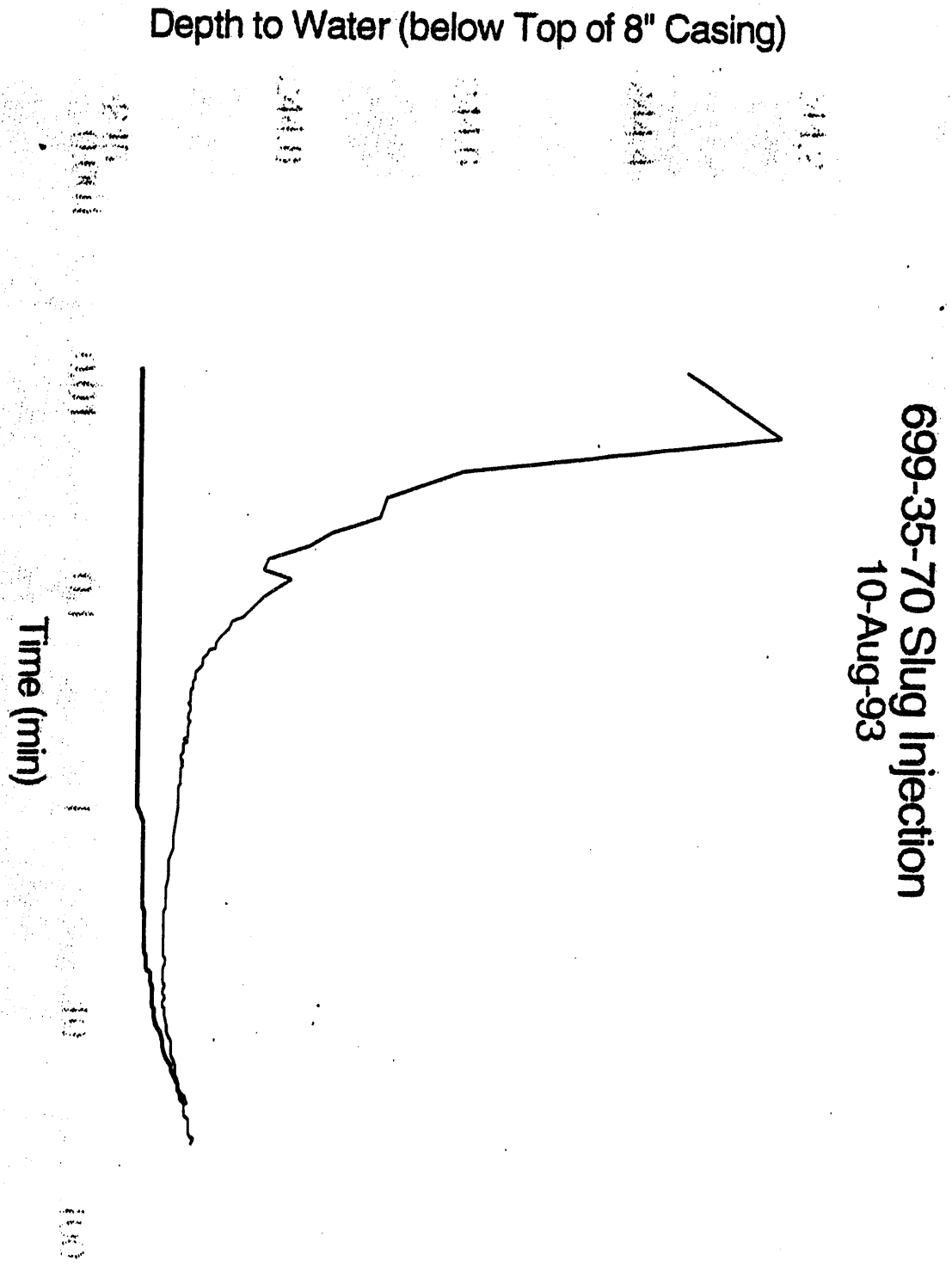
Datalogger Hermit Unit #459
Test #0 Input: 1
SWL: 244.970' TOC
Baseline Started: 9:00 8/10/93

Time:min	Time:hrs	D-T-W:Ft	d(WL):Ft
0	0.0000	244.970	-244.970
1	0.0167	244.963	-244.963
2	0.0333	244.963	-244.963
3	0.0500	244.960	-244.960
4	0.0667	244.960	-244.960
5	0.0833	244.957	-244.957
6	0.1000	244.954	-244.954
7	0.1167	244.950	-244.950
8	0.1333	244.950	-244.950
9	0.1500	244.947	-244.947
10	0.1667	244.944	-244.944
11	0.1833	244.941	-244.941
12	0.2000	244.938	-244.938
13	0.2167	244.938	-244.938
14	0.2333	244.935	-244.935
15	0.2500	244.931	-244.931
16	0.2667	244.928	-244.928
17	0.2833	244.928	-244.928
18	0.3000	244.925	-244.925
19	0.3167	244.922	-244.922
20	0.3333	244.919	-244.919
21	0.3500	244.919	-244.919
22	0.3667	244.916	-244.916
23	0.3833	244.912	-244.912
24	0.4000	244.912	-244.912
25	0.4167	244.909	-244.909

0.267	0.00444	244.906	-244.906
0.275	0.00458	244.906	-244.906
0.283	0.00472	244.909	-244.909
0.292	0.00486	244.909	-244.909
0.300	0.00500	244.909	-244.909
0.308	0.00514	244.909	-244.909
0.317	0.00528	244.909	-244.909
0.325	0.00542	244.912	-244.912
0.333	0.00556	244.909	-244.909
0.350	0.00583	244.909	-244.909
0.367	0.00611	244.912	-244.912
0.383	0.00639	244.912	-244.912
0.400	0.00667	244.909	-244.909
0.417	0.00694	244.912	-244.912
0.433	0.00722	244.912	-244.912
0.450	0.00750	244.912	-244.912
0.467	0.00778	244.912	-244.912
0.483	0.00806	244.916	-244.916
0.500	0.00833	244.912	-244.912
0.517	0.00861	244.916	-244.916
0.533	0.00889	244.916	-244.916
0.550	0.00917	244.916	-244.916
0.567	0.00944	244.916	-244.916
0.583	0.00972	244.919	-244.919
0.600	0.01000	244.919	-244.919
0.617	0.01028	244.916	-244.916
0.633	0.01056	244.919	-244.919
0.650	0.01083	244.916	-244.916
0.667	0.01111	244.919	-244.919
0.683	0.01139	244.919	-244.919
0.700	0.01167	244.919	-244.919
0.717	0.01194	244.919	-244.919
0.733	0.01222	244.919	-244.919
0.750	0.01250	244.919	-244.919
0.767	0.01278	244.919	-244.919
0.783	0.01306	244.919	-244.919
0.800	0.01333	244.922	-244.922
0.817	0.01361	244.922	-244.922
0.833	0.01389	244.922	-244.922
0.850	0.01417	244.922	-244.922
0.867	0.01444	244.922	-244.922
0.883	0.01472	244.922	-244.922

0.900	0.01500	244.922	-244.922
0.917	0.01528	244.922	-244.922
0.933	0.01556	244.922	-244.922
0.950	0.01583	244.922	-244.922
0.967	0.01611	244.922	-244.922
0.983	0.01639	244.922	-244.922
1.00	0.01667	244.922	-244.922
1.20	0.02000	244.925	-244.925
1.40	0.02333	244.928	-244.928
1.60	0.02667	244.928	-244.928
1.80	0.03000	244.931	-244.931
2.00	0.03333	244.931	-244.931
2.20	0.03667	244.931	-244.931
2.40	0.04000	244.935	-244.935
2.60	0.04333	244.935	-244.935
2.80	0.04667	244.935	-244.935
3.00	0.05000	244.935	-244.935
3.20	0.05333	244.938	-244.938
3.40	0.05667	244.938	-244.938
3.60	0.06000	244.938	-244.938
3.80	0.06333	244.938	-244.938
4.00	0.06667	244.938	-244.938
4.20	0.07000	244.938	-244.938
4.40	0.07333	244.938	-244.938
4.60	0.07667	244.938	-244.938
4.80	0.08000	244.938	-244.938
5.00	0.08333	244.938	-244.938
5.20	0.08667	244.938	-244.938
5.40	0.09000	244.935	-244.935
5.60	0.09333	244.935	-244.935
5.80	0.09667	244.938	-244.938
6.00	0.10000	244.938	-244.938
6.20	0.10333	244.938	-244.938
6.40	0.10667	244.938	-244.938
6.60	0.11000	244.938	-244.938
6.80	0.11333	244.938	-244.938
7.00	0.11667	244.938	-244.938
7.20	0.12000	244.935	-244.935
7.40	0.12333	244.938	-244.938
7.60	0.12667	244.938	-244.938
7.80	0.13000	244.938	-244.938
8.00	0.13333	244.935	-244.935

8.20	0.13667	244.935	-244.935
8.40	0.14000	244.938	-244.938
8.60	0.14333	244.938	-244.938
8.80	0.14667	244.938	-244.938
9.00	0.15000	244.938	-244.938
9.20	0.15333	244.935	-244.935
9.40	0.15667	244.935	-244.935
9.60	0.16000	244.935	-244.935
9.80	0.16333	244.935	-244.935
10.00	0.16667	244.935	-244.935
11.00	0.18333	244.931	-244.931
12.00	0.20000	244.931	-244.931
13.00	0.21667	244.928	-244.928
14.00	0.23333	244.928	-244.928
15.00	0.25000	244.928	-244.928
16.00	0.26667	244.925	-244.925
17.00	0.28333	244.922	-244.922
18.00	0.30000	244.922	-244.922
19.00	0.31667	244.922	-244.922
20.00	0.33333	244.919	-244.919
21.00	0.35000	244.919	-244.919
22.00	0.36667	244.919	-244.919
23.00	0.38333	244.916	-244.916
24.00	0.40000	244.916	-244.916
25.00	0.41667	244.916	-244.916
26.00	0.43333	244.912	-244.912
27.00	0.45000	244.912	-244.912
28.00	0.46667	244.912	-244.912
29.00	0.48333	244.912	-244.912
30.00	0.50000	244.909	-244.909
31.00	0.51667	244.906	-244.906
32.00	0.53333	244.906	-244.906
33.00	0.55000	244.906	-244.906
34.00	0.56667	244.906	-244.906
35.00	0.58333	244.906	-244.906
36.00	0.60000	244.906	-244.906
37.00	0.61667	244.903	-244.903
38.00	0.63333	244.900	-244.900
39.00	0.65000	244.900	-244.900
40.00	0.66667	244.903	-244.903


699-35-70 Slug Injection
10-Aug-93
Depth to Water (below Top of 8" Casing)
Time (min)

INSTANTANEOUS SLUG TEST DATA SHEET: WITHDRAWAL

Borehole: 699-35-70

Interval Tested: 244.97'-263.84' TOC 8"

Depth To Water: 244.97' TOC 8"

Depth to Transducer: 18.382' BWL

Measured by: Bret F. Strode

Slug Volume: BR-2 0.194 Cu ft

Barometric Reading:

Beginning: N/A End: N/A

Time:	Start	End
Baseline	1012	1034
Injection	1036	1110

Date: 8-10-93

Initial Pressure (Pi): 244.970'

Slug Level/Pressure (Pmax) 245.341'

Borehole Diameter: 8"

Time		Pressure	Time		Pressure	Time		Pressure
Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement
		See Attached.						
					See attached.			

Recorded by: Robert S. Edrington Date: 8-16-93

Sign and Print Name

BD-6000-293(07/90)

Well 699-35-70
Slug Withdrawal Test

Datalogger Hermit Unit #459
Test #3 Input: 1
SWL: 244.970' TOC
Slug Withdrawn:10:36 8/10/93

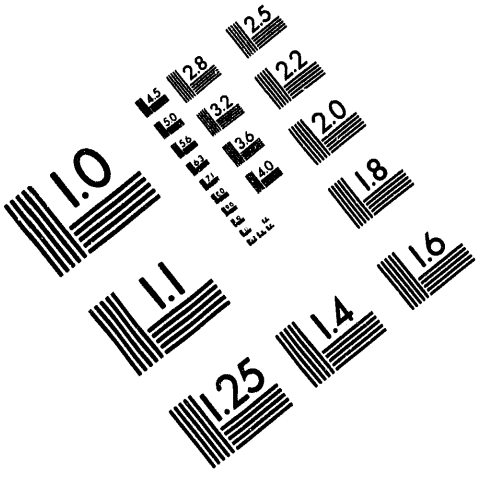
Time:min	Time:hrs	D-T-W:Ft	d(WL):Ft
0.000	0.00000	245.017	-245.017
0.008	0.00014	245.341	-245.341
0.017	0.00028	245.309	-245.309
0.025	0.00042	245.220	-245.220
0.033	0.00056	245.160	-245.160
0.042	0.00069	245.138	-245.138
0.050	0.00083	245.119	-245.119
0.058	0.00097	245.090	-245.090
0.067	0.00111	245.058	-245.058
0.075	0.00125	245.046	-245.046
0.083	0.00139	245.017	-245.017
0.092	0.00153	244.995	-244.995
0.100	0.00167	244.985	-244.985
0.108	0.00181	244.966	-244.966
0.117	0.00194	244.957	-244.957
0.125	0.00208	244.944	-244.944
0.133	0.00222	244.935	-244.935
0.142	0.00236	244.925	-244.925
0.150	0.00250	244.919	-244.919
0.158	0.00264	244.916	-244.916
0.167	0.00278	244.912	-244.912
0.175	0.00292	244.903	-244.903
0.183	0.00306	244.903	-244.903
0.192	0.00319	244.896	-244.896
0.200	0.00333	244.893	-244.893
0.208	0.00347	244.890	-244.890
0.217	0.00361	244.887	-244.887
0.225	0.00375	244.887	-244.887
0.233	0.00389	244.884	-244.884
0.242	0.00403	244.884	-244.884
0.250	0.00417	244.881	-244.881
0.258	0.00431	244.881	-244.881

Datalogger Hermit Unit #459
Test #2 Input: 1
SWL: 244.970' TOC
Baseline Started: 10:12 8/10/93

Time:min	Time:hrs	D-T-W:Ft	d(WL):Ft
0	0.0000	244.900	-244.900
1	0.0167	244.896	-244.896
2	0.0333	244.896	-244.896
3	0.0500	244.893	-244.893
4	0.0667	244.893	-244.893
5	0.0833	244.893	-244.893
6	0.1000	244.890	-244.890
7	0.1167	244.890	-244.890
8	0.1333	244.890	-244.890
9	0.1500	244.887	-244.887
10	0.1667	244.887	-244.887
11	0.1833	244.887	-244.887
12	0.2000	244.884	-244.884
13	0.2167	244.884	-244.884
14	0.2333	244.884	-244.884
15	0.2500	244.884	-244.884
16	0.2667	244.881	-244.881
17	0.2833	244.881	-244.881
18	0.3000	244.881	-244.881
19	0.3167	244.877	-244.877
20	0.3333	244.877	-244.877
21	0.3500	244.877	-244.877
22	0.3667	244.877	-244.877

0.267	0.00444	244.881	-244.881
0.275	0.00458	244.881	-244.881
0.283	0.00472	244.881	-244.881
0.292	0.00486	244.881	-244.881
0.300	0.00500	244.881	-244.881
0.308	0.00514	244.877	-244.877
0.317	0.00528	244.881	-244.881
0.325	0.00542	244.881	-244.881
0.333	0.00556	244.877	-244.877
0.350	0.00583	244.881	-244.881
0.367	0.00611	244.881	-244.881
0.383	0.00639	244.881	-244.881
0.400	0.00667	244.881	-244.881
0.417	0.00694	244.881	-244.881
0.433	0.00722	244.881	-244.881
0.450	0.00750	244.881	-244.881
0.467	0.00778	244.881	-244.881
0.483	0.00806	244.881	-244.881
0.500	0.00833	244.881	-244.881
0.517	0.00861	244.881	-244.881
0.533	0.00889	244.881	-244.881
0.550	0.00917	244.881	-244.881
0.567	0.00944	244.881	-244.881
0.583	0.00972	244.881	-244.881
0.600	0.01000	244.881	-244.881
0.617	0.01028	244.881	-244.881
0.633	0.01056	244.881	-244.881
0.650	0.01083	244.881	-244.881
0.667	0.01111	244.881	-244.881
0.683	0.01139	244.881	-244.881
0.700	0.01167	244.881	-244.881
0.717	0.01194	244.881	-244.881
0.733	0.01222	244.881	-244.881
0.750	0.01250	244.881	-244.881
0.767	0.01278	244.881	-244.881
0.783	0.01306	244.881	-244.881
0.800	0.01333	244.881	-244.881
0.817	0.01361	244.881	-244.881
0.833	0.01389	244.881	-244.881
0.850	0.01417	244.881	-244.881
0.867	0.01444	244.881	-244.881
0.883	0.01472	244.881	-244.881

0.900	0.01500	244.881	-244.881
0.917	0.01528	244.881	-244.881
0.933	0.01556	244.881	-244.881
0.950	0.01583	244.881	-244.881
0.967	0.01611	244.881	-244.881
0.983	0.01639	244.881	-244.881
1.000	0.01667	244.881	-244.881
1.200	0.02000	244.881	-244.881
1.400	0.02333	244.877	-244.877
1.600	0.02667	244.877	-244.877
1.800	0.03000	244.874	-244.874
2.000	0.03333	244.877	-244.877
2.200	0.03667	244.874	-244.874
2.400	0.04000	244.874	-244.874
2.600	0.04333	244.874	-244.874
2.800	0.04667	244.871	-244.871
3.000	0.05000	244.871	-244.871
3.200	0.05333	244.871	-244.871
3.400	0.05667	244.871	-244.871
3.600	0.06000	244.871	-244.871
3.800	0.06333	244.871	-244.871
4.000	0.06667	244.871	-244.871
4.200	0.07000	244.868	-244.868
4.400	0.07333	244.868	-244.868
4.600	0.07667	244.868	-244.868
4.800	0.08000	244.868	-244.868
5.000	0.08333	244.868	-244.868
5.200	0.08667	244.868	-244.868
5.400	0.09000	244.868	-244.868
5.600	0.09333	244.865	-244.865
5.800	0.09667	244.865	-244.865
6.000	0.10000	244.865	-244.865
6.200	0.10333	244.865	-244.865
6.400	0.10667	244.865	-244.865
6.600	0.11000	244.865	-244.865
6.800	0.11333	244.865	-244.865
7.000	0.11667	244.865	-244.865
7.200	0.12000	244.865	-244.865
7.400	0.12333	244.865	-244.865
7.600	0.12667	244.865	-244.865
7.800	0.13000	244.865	-244.865
8.000	0.13333	244.865	-244.865



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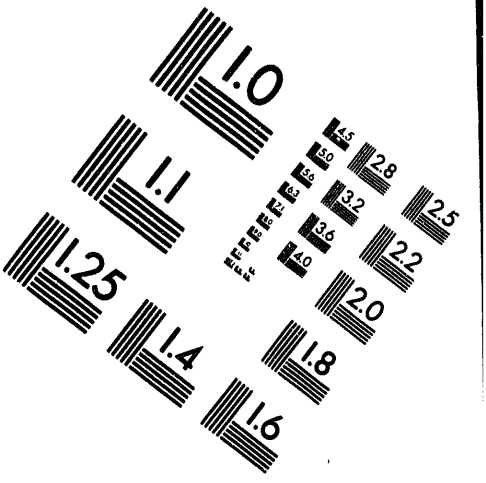

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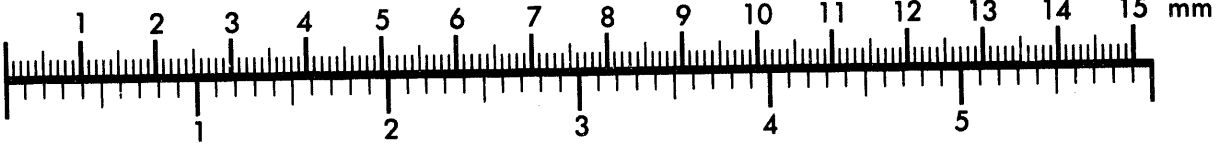

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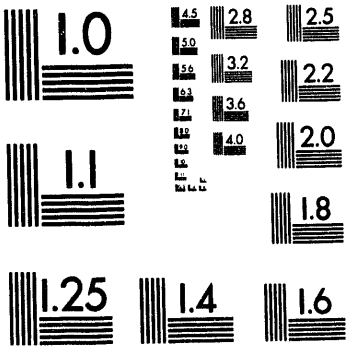

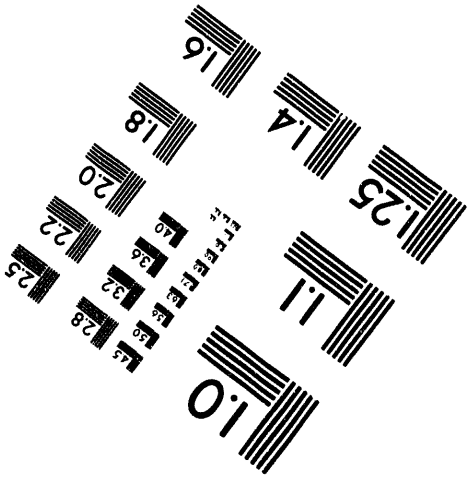

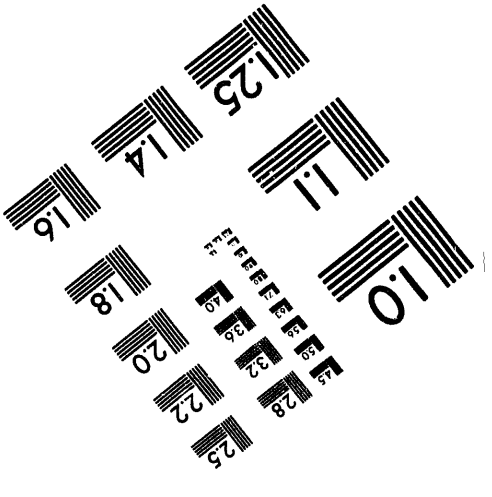

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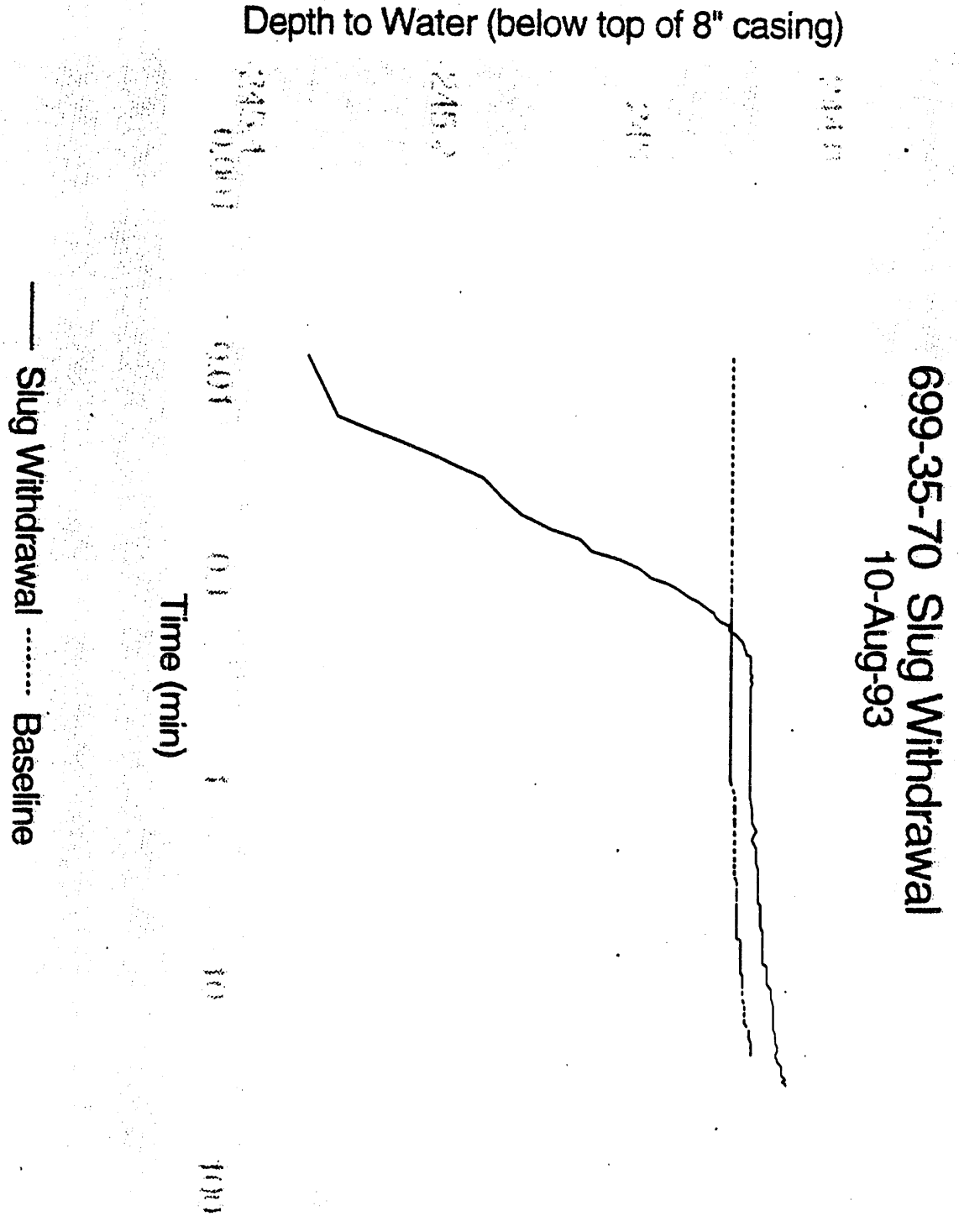
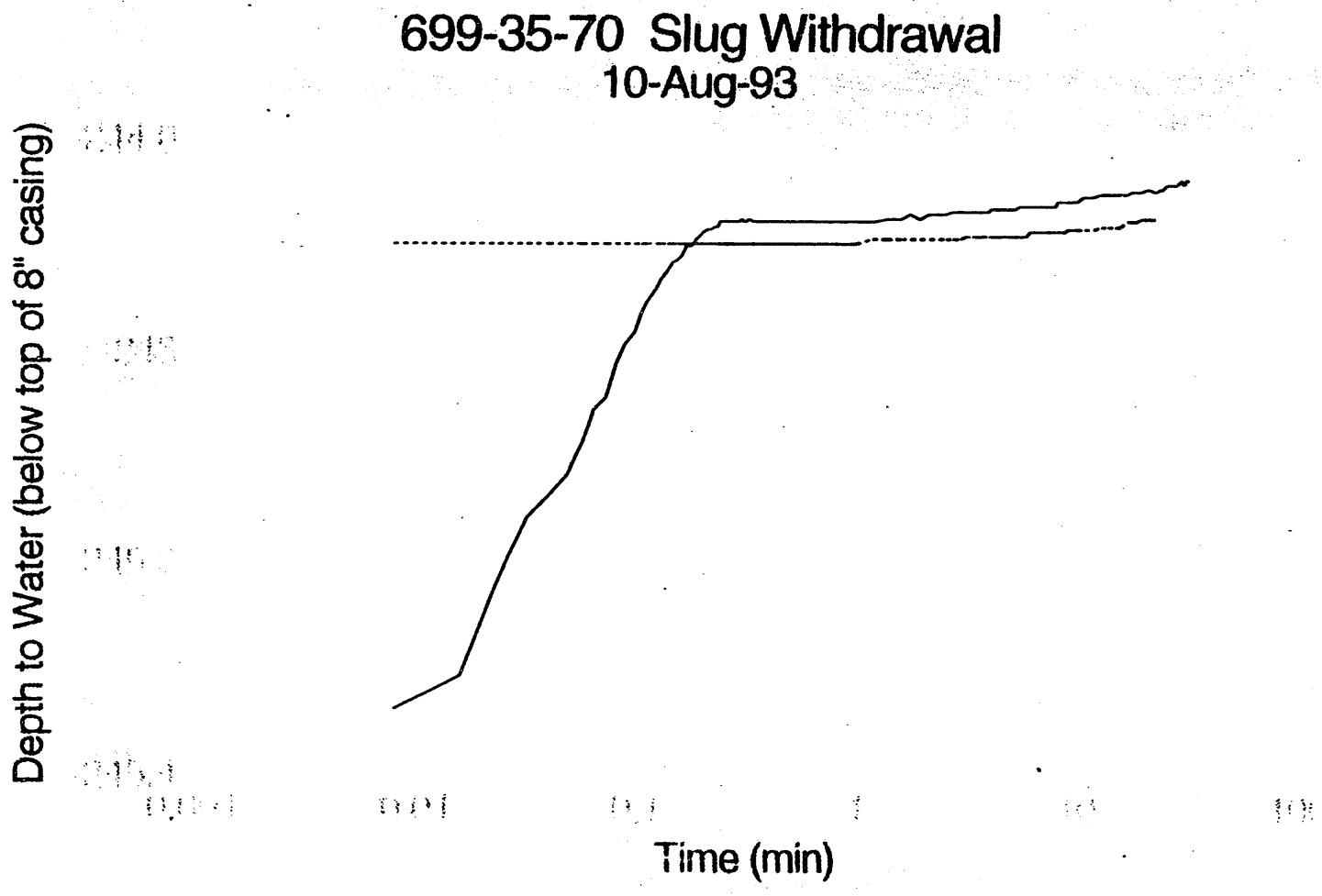
8.200	0.13667	244.865	-244.865
8.400	0.14000	244.861	-244.861
8.600	0.14333	244.861	-244.861
8.800	0.14667	244.861	-244.861
9.000	0.15000	244.861	-244.861
9.200	0.15333	244.861	-244.861
9.400	0.15667	244.861	-244.861
9.600	0.16000	244.861	-244.861
9.800	0.16333	244.861	-244.861
10.000	0.16667	244.861	-244.861
11.000	0.18333	244.858	-244.858
12.000	0.20000	244.858	-244.858
13.000	0.21667	244.855	-244.855
14.000	0.23333	244.855	-244.855
15.000	0.25000	244.855	-244.855
16.000	0.26667	244.855	-244.855
17.000	0.28333	244.855	-244.855
18.000	0.30000	244.852	-244.852
19.000	0.31667	244.852	-244.852
20.000	0.33333	244.852	-244.852
21.000	0.35000	244.849	-244.849
22.000	0.36667	244.849	-244.849
23.000	0.38333	244.852	-244.852
24.000	0.40000	244.849	-244.849
25.000	0.41667	244.849	-244.849
26.000	0.43333	244.846	-244.846
27.000	0.45000	244.846	-244.846
28.000	0.46667	244.846	-244.846
29.000	0.48333	244.846	-244.846
30.000	0.50000	244.842	-244.842
31.000	0.51667	244.846	-244.846
32.000	0.53333	244.842	-244.842
33.000	0.55000	244.842	-244.842


699-35-70 Slug Withdrawal
10-Aug-93
Depth to Water (below top of 8" casing)
Time (min)
Slug Withdrawal
Baseline


699-35-70 Slug Withdrawal
10-Aug-93
Depth to Water (below top of 8" casing)
Time (min)

APPENDIX I

699-37-82A SLUG TEST DATA

BOREHOLE TEST INFORMATION

Borehole 699-37-82A Borehole Diameter 6 in. Hanford Coordinates N/A

Interval Tested 172.21'-176.93' Perf'ed Interval 158'-176.93'* Test Type: Instantaneous Slug

Borehole Depth: 176.93' Instruction Used: WHC-CM-7-7 (EII 10.1)

EQUIPMENT

NAME	DESCRIPTION
Electric Sounder	Solinst s/n: ET-4 Calibration due: 1-30-94
Data Logger	In-Situ Inc. s/n: 2K-193
Pressure Transducer	In-Situ Inc. s/n: 2044DE Calibration due: 3-11-94
Slugging Rod	BR-3: 1.072 Cu. Ft.**
Steel Measuring Tape	300' Graduated Steel Tape

MEASUREMENT DATUM

Control Datum: Top of Casing (TOC) 6"

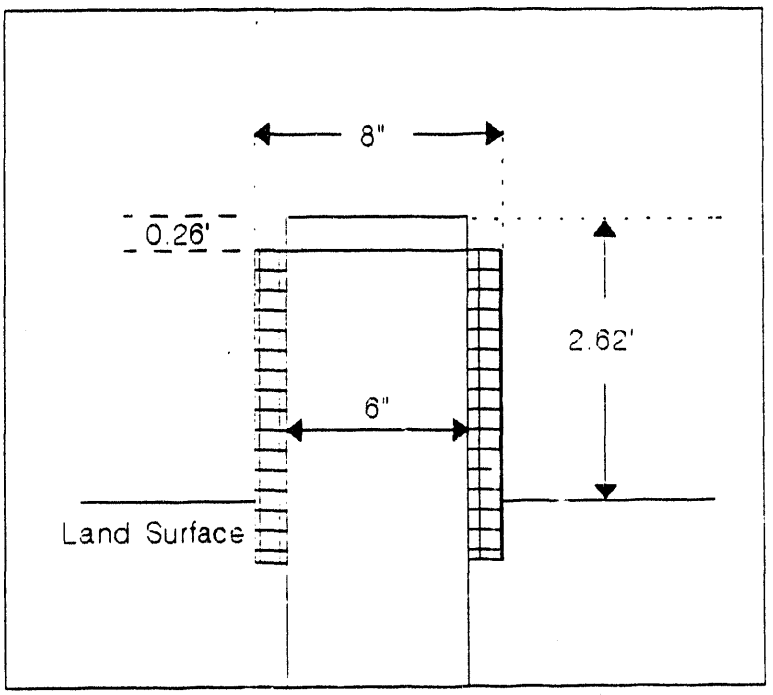
Elevation: N/A

Electric Sounder: TOC 6"

Steel Tape: TOC 6"

Pressure Transducer: TOC 6"

WELL HEAD DIAGRAM



COMMENTS

*Perforated Interval is a "best guess" based on available data.

**Due to lack of water only a withdrawal test was performed and even that was done with only partial penetration making the effective volume of the slug 0.760 Cu ft.

Recorded by: Robert S. Edrington Date: 8/16/93

Sign and Print Name

FIELD ACTIVITY REPORT

Report 1 of ____

Page 1 of 1

Purpose: Aquifer Testing

Date	Well/Excavation No.	Rig Type	Contract/Work Order No.	Start Card No.
8/19/93	699 37-82A	Smeal 5 T	PLB53	

Operable Unit/Project: 200 UP-1

Location: 1/4 mi S.W. of 200 W

Reference: WHC-SD-EN-IP-130 REV 1

Activity: Slug testing

PERSONNEL:

FTL:

Geologist:

Driller: P. Parish WHC

Helper: D Hollingsworth WHC

HPT: –

SSO: –

Other: B. Strode MCE/WHC

TIME: Start: 1000 Finish: 1233

DELAYS/EXPLANATIONS:

Description of Operations/Remarks

1000 on Site 699-37-82A SWL 172.21' (ET-4 1/30/94) Tag TOC 176.93'
11:00 Start test #0 Baseline x-ducer # 2044 ; Hermit # 2n-193 Depth 4.522
1201 End test #0
1206 Start test #1 withdrawal RR-3 (1.072 cu ft) Due to the
— Short water column the total amount of Slug withdrawal is
— 4.72' Total Slug volume w/ drawn was .76 cu ft
1226 End test #1
1233 well head Secure

Report By: B.F. Strode (Print) (Sign) Date: 8/19/93

Title/Company: Equipment Tech MCE/WHC

A-6001-123 (03/93)

INSTANTANEOUS SLUG TEST DATA SHEET: INJECTION

Borehole: 699-37-82A

Interval Tested: N/A

Depth To Water: 172.21' TOC 6"

Depth to Transducer: N/A BWL

Measured by: Bret F. Strode

Slug Volume: N/A

Barometric Reading:
Beginning: N/A End: N/A

Time:	Start	End
Baseline	N/A	N/A
Injection	N/A	N/A

Date: 8-19-93

Initial Pressure (Pi): N/A

Slug Level/Pressure (Pmax) N/A

Borehole Diameter: 6"

Time		Pressure	Time		Pressure	Time		Pressure
Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement
		NO DATA						
					NO DATA			

No Slug Injection performed due to lack of standing water in well.

Recorded by: Robert S. Edrington Date: 8-23-93
Sign and Print Name

BD-6000-293(07/90)

INSTANTANEOUS SLUG TEST DATA SHEET: WITHDRAWAL

Borehole: 699-37-82A

Interval Tested: 172.21'-176.93' TOC 6"

Depth To Water: 172.21' TOC 6"

Depth to Transducer: 4.522' BWL

Measured by: Bret F. Strode

Slug Volume: BR-3 1.072* Cu ft

Barometric Reading:
Beginning: N/A End: N/A

Time:	Start	End
Baseline	1100	1201
Withdrawal	1206	1226

Date: 8-19-93

Initial Pressure (Pi): 0.000'

Slug Level/Pressure (Pmax) -1.452'

Borehole Diameter: 6"

Time		Pressure	Time		Pressure	Time		Pressure
Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement

Withdraw performed with partially penetrating slug due to lack of water column, effective vol. = 0.76 Cu ft.

Recorded by: Robert S. Edrington Date: 8-23-93
Sign and Print Name

BD-6000-293(07/90)

699-37-82A Slug Withdrawal

Well 699-37-82A
Slug Withdrawal Test

Datalogger Hermit Unit #193
Test #1 Input: 1
SWL: 172.210' TOC
Slug Withdrawn: 12:07 8/19/93

Time:min	Time:hrs	Change in WL
0.0000	0.00000	-1.290
0.0083	0.00014	-1.452
0.0166	0.00028	-1.328
0.0250	0.00042	-1.237
0.0333	0.00056	-1.183
0.0416	0.00069	-1.116
0.0500	0.00083	-1.012
0.0583	0.00097	-0.936
0.0666	0.00111	-0.838
0.0750	0.00125	-0.762
0.0833	0.00139	-0.690
0.1000	0.00167	-0.551
0.1166	0.00194	-0.424
0.1333	0.00222	-0.317
0.1500	0.00250	-0.228
0.1666	0.00278	-0.155
0.1833	0.00306	-0.092
0.2000	0.00333	-0.048
0.2166	0.00361	-0.019
0.2333	0.00389	-0.004
0.2500	0.00417	-0.004
0.2666	0.00444	0.000
0.2833	0.00472	-0.004
0.3000	0.00500	-0.004
0.3166	0.00528	0.000
0.3333	0.00556	-0.004
0.4166	0.00694	-0.007
0.5000	0.00833	-0.007
0.5833	0.00972	-0.007
0.6666	0.01111	-0.007
0.7500	0.01250	-0.007
0.8333	0.01389	-0.004

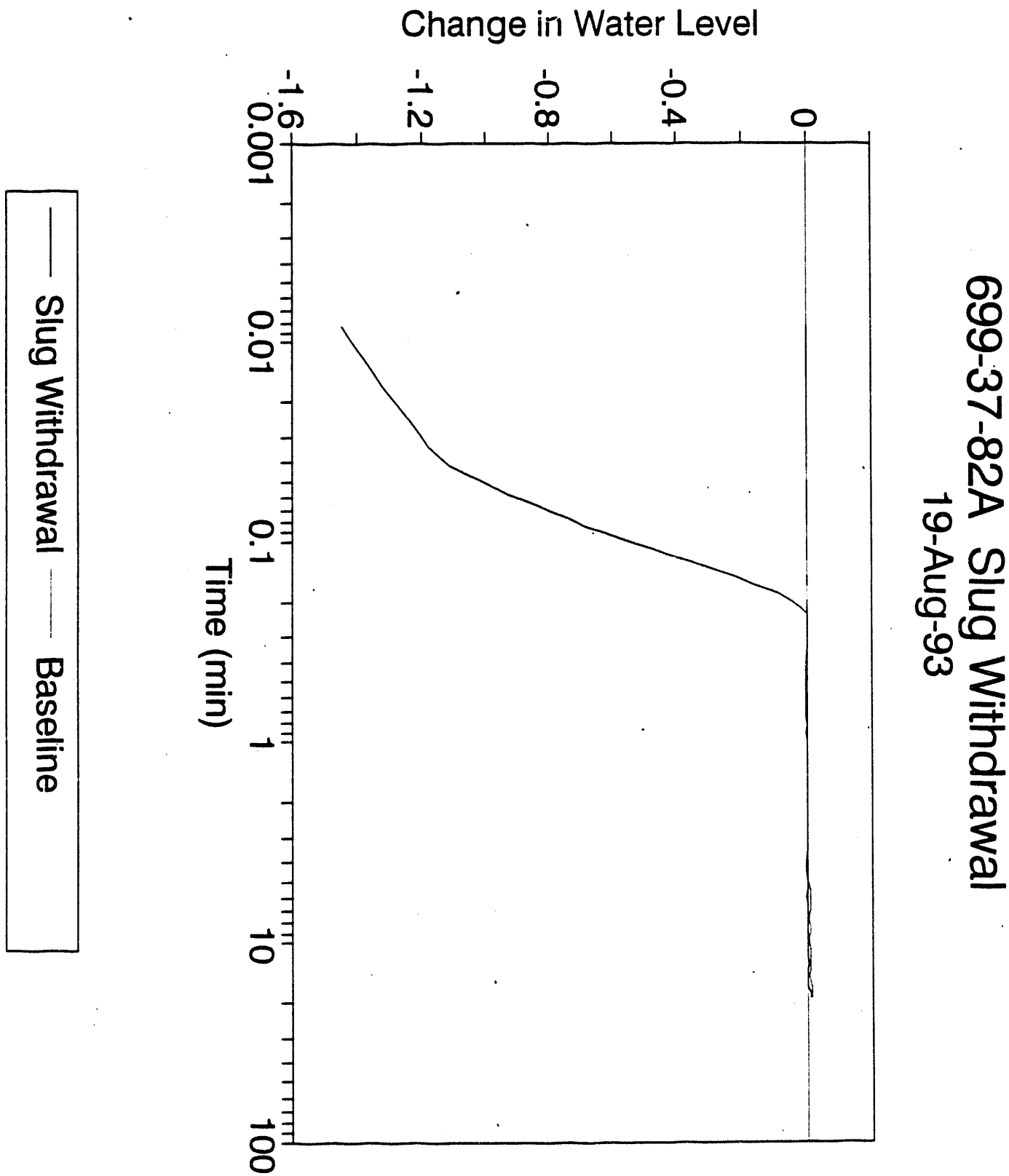
Datalogger Hermit Unit #193
Test #0 Input: 1
SWL: 172.210' TOC
Baseline Started: 11:00 8/19/93

Time:min	Time:hrs	Change in WL
0	0.0000	0.000
1	0.0167	-0.004
2	0.0333	-0.004
3	0.0500	-0.004
4	0.0667	-0.004
5	0.0833	0.006
6	0.1000	0.006
7	0.1167	0.003
8	0.1333	0.006
9	0.1500	0.003
10	0.1667	0.006
11	0.1833	0.006
12	0.2000	0.003
13	0.2167	0.006
14	0.2333	0.012
15	0.2500	0.009
16	0.2667	0.009
17	0.2833	0.006
18	0.3000	0.006
19	0.3167	0.009
20	0.3333	0.009
21	0.3500	0.009
22	0.3667	0.009
23	0.3833	0.012
24	0.4000	0.009
25	0.4167	0.009
26	0.4333	0.012
27	0.4500	0.009
28	0.4667	0.012
29	0.4833	0.009
30	0.5000	0.012
31	0.5167	0.012

699-37-82A Slug Withdrawal

0.9166	0.01528	-0.007
1.00	0.01667	-0.004
1.08	0.01806	-0.004
1.17	0.01944	-0.004
1.25	0.02083	-0.004
1.33	0.02222	-0.004
1.42	0.02361	-0.004
1.50	0.02500	-0.004
1.58	0.02639	-0.004
1.67	0.02778	-0.004
1.75	0.02917	-0.004
1.83	0.03056	0.000
1.92	0.03194	0.000
2.00	0.03333	0.000
2.50	0.04167	-0.004
3.00	0.05000	-0.004
3.50	0.05833	-0.004
4.00	0.06667	-0.007
4.50	0.07500	-0.007
5.00	0.08333	-0.004
5.50	0.09167	-0.004
6.00	0.10000	-0.007
6.50	0.10833	0.000
7.00	0.11667	0.000
7.50	0.12500	0.000
8.00	0.13333	0.000
8.50	0.14167	0.000
9.00	0.15000	0.000
9.50	0.15833	0.000
10.00	0.16667	0.000
11.00	0.18333	0.000
12.00	0.20000	0.000
13.00	0.21667	0.003
14.00	0.23333	0.000
15.00	0.25000	-0.004
16.00	0.26667	-0.004
17.00	0.28333	-0.004
18.00	0.30000	0.006
19.00	0.31667	0.009

32	0.5333	0.012
33	0.5500	0.009
34	0.5667	0.009
35	0.5833	0.012
36	0.6000	0.012
37	0.6167	0.012
38	0.6333	0.012
39	0.6500	0.012
40	0.6667	0.012
41	0.6833	0.012
42	0.7000	0.012
43	0.7167	0.015
44	0.7333	0.015
45	0.7500	0.012
46	0.7667	0.015
47	0.7833	0.015
48	0.8000	0.015
49	0.8167	0.012
50	0.8333	0.012
51	0.8500	0.015
52	0.8667	0.015
53	0.8833	0.018
54	0.9000	0.015
55	0.9167	0.018
56	0.9333	0.028
57	0.9500	0.031
58	0.9667	0.034
59	0.9833	0.031
60	1.0000	0.031


699-37-82A Slug Withdrawal
19-Aug-93
Change in Water Level
0
-0.4
-0.8
-1.2
-1.6
0.001
0.01
0.1
1
10
100
Time (min)
Slug Withdrawal
Baseline

APPENDIX J

699-38-70 SLUG TEST DATA

BOREHOLE TEST INFORMATION

page 1 of 1

Borehole 699-38-70 Borehole Diameter 8 in. Hanford Coordinates N/A

Interval Tested 260.6'-287.74' Perf'ed Interval 257.36'-287.74' Test Type: Instantaneous Slug

Borehole Depth: 287.74' Instruction Used: WHC-CM-7-7 (EII 10.1)

EQUIPMENT

NAME	DESCRIPTION
Electric Sounder	Solinst s/n: ET-4 Calibration due: 1-30-94
Data Logger	In-Situ Inc. s/n: 2K-459
Pressure Transducer	In-Situ Inc. s/n: 2044DE Calibration due: 3-11-94
Slugging Rod	BR-2: 0.194 Cu. Ft.
Steel Measuring Tape	300' Graduated Steel Tape

MEASUREMENT DATUM

Control Datum: Top of Casing (TOC) 8"

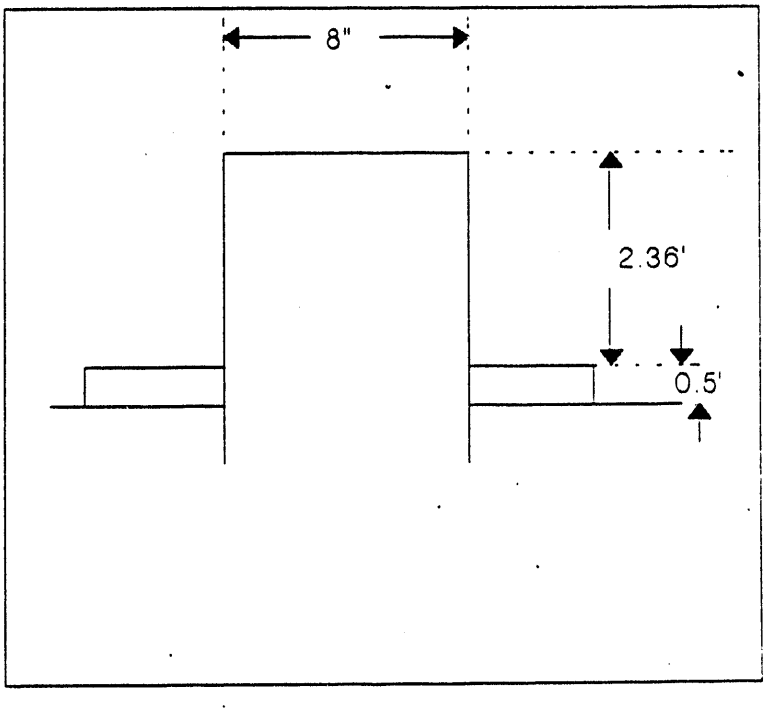
Elevation: N/A

Electric Sounder: TOC 8"

Steel Tape: TOC 8"

Pressure Transducer: TOC 8"

WELL HEAD DIAGRAM



COMMENTS

Recorded by: Robert S. Edrington Date: 8/16/93

Sign and Print Name

FIELD ACTIVITY REPORT

Report 1 of ____

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Purpose: Aquifer Testing

Date	Well/Excavation No.	Rig Type	Contract/Work Order No.	Start Card No.
8/10/93	699-38-70	Pump Setting ST	PLB53	

Operable Unit/Project: 200 UP-1

Reference: REV 1 WHC-SD-EN-AP-130

Location: 3/4 mi EAST of U. Plant

Activity: Slug Test

PERSONNEL:

FTL:

Geologist:

Driller: T. Hattell License # 1845 WHC

Helper:

HPT: J. Brown WHC

SSO:

Other: B. Strode Equipment Technician MCE/WHC

TIME: Start: 1130 Finish: 1430

DELAYS/EXPLANATIONS:

Description of Operations/Remarks

1130 on Site 699-38-70 Sol 260 GC ET-4 1/10/94 Tag(Top) 297.74'

1157 - Start test #4 Baseline x-ducer depth 12.952 # 3014 [illegible] 1/10/94

— Hermit # 2K-457

1233 - Stop test #4 [illegible] .194

1234 - Start test #5 injection B-22 (~~1.44~~ Cu FT) (12.988)

1303 - End test #5

1304 - Start test #6 Baseline (12.10)

1336 - End test #6

1337 - Start test #7 injection 12.036

1415 - End test #7 12.099

1430 Well Head S[illegible] Leave Site

Report By: B.F. Strode (Print) [signature] (Sign) Date: 8/10/93

Title/Company: Equipment Technician MCE/WHC

A-6001-123 (03/93)

INSTANTANEOUS SLUG TEST DATA SHEET: INJECTION

Page 1 of 1

Borehole: 699-38-70

Interval Tested: 260.60'-287.74' TOC 8"

Depth To Water: 260.60' TOC 8"

Depth to Transducer: 12.982' BWL

Measured by: Bret F Strode

Slug Volume: BR-2 0.194 Cu ft

Barometric Reading:

Beginning: N/A End: N/A

Time:	Start	End
Baseline	1157	1223
Injection	1224	1304

Date: 8-10-93

Initial Pressure (Pi): 260.60'

Slug Level/Pressure (Pmax) 260.495

Borehole Diameter: 8"

Time		Pressure	Time		Pressure	Time		Pressure
Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement

Recorded by: Robert S. Edrington Date: 8-16-93

Sign and Print Name

BD-6000-293(07/90)

Well 699-38-70
Slug Injection Test

Datalogger Hermit Unit #459
Test #5 Input: 1
SWL: 260.600' TOC
Slug Injected:12:24 8/10/93

Time:min	Time:hrs	D-T-W:Ft	d(WL):Ft
0.000	0.00000	260.071	-260.071
0.008	0.00014	260.976	-260.976
0.017	0.00028	260.609	-260.609
0.025	0.00042	260.799	-260.799
0.033	0.00056	260.732	-260.732
0.042	0.00069	260.495	-260.495
0.050	0.00083	260.530	-260.530
0.058	0.00097	260.615	-260.615
0.067	0.00111	260.543	-260.543
0.075	0.00125	260.581	-260.581
0.083	0.00139	260.533	-260.533
0.092	0.00153	260.634	-260.634
0.100	0.00167	260.552	-260.552
0.108	0.00181	260.574	-260.574
0.117	0.00194	260.587	-260.587
0.125	0.00208	260.555	-260.555
0.133	0.00222	260.571	-260.571
0.142	0.00236	260.565	-260.565
0.150	0.00250	260.568	-260.568
0.158	0.00264	260.568	-260.568
0.167	0.00278	260.571	-260.571
0.175	0.00292	260.577	-260.577
0.183	0.00306	260.571	-260.571
0.192	0.00319	260.574	-260.574
0.200	0.00333	260.577	-260.577
0.208	0.00347	260.571	-260.571
0.217	0.00361	260.568	-260.568
0.225	0.00375	260.568	-260.568
0.233	0.00389	260.568	-260.568
0.242	0.00403	260.568	-260.568
0.250	0.00417	260.568	-260.568
0.258	0.00431	260.571	-260.571

Datalogger Hermit Unit #459
Test #4 Input: 1
SWL: 260.600' TOC
Baseline Started:11:56 8/10/93

Time:min	Time:hrs	D-T-W:Ft	d(WL):Ft
0	0.0000	260.609	-260.609
1	0.0167	260.609	-260.609
2	0.0333	260.609	-260.609
3	0.0500	260.609	-260.609
4	0.0667	260.612	-260.612
5	0.0833	260.609	-260.609
6	0.1000	260.609	-260.609
7	0.1167	260.609	-260.609
8	0.1333	260.609	-260.609
9	0.1500	260.609	-260.609
10	0.1667	260.609	-260.609
11	0.1833	260.609	-260.609
12	0.2000	260.609	-260.609
13	0.2167	260.609	-260.609
14	0.2333	260.609	-260.609
15	0.2500	260.606	-260.606
16	0.2667	260.606	-260.606
17	0.2833	260.606	-260.606
18	0.3000	260.606	-260.606
19	0.3167	260.606	-260.606
20	0.3333	260.603	-260.603
21	0.3500	260.603	-260.603
22	0.3667	260.603	-260.603
23	0.3833	260.603	-260.603
24	0.4000	260.603	-260.603
25	0.4167	260.603	-260.603
26	0.4333	260.603	-260.603

699-38-70 Slug Injection

0.267	0.00444	260.571	-260.571
0.275	0.00458	260.568	-260.568
0.283	0.00472	260.571	-260.571
0.292	0.00486	260.568	-260.568
0.300	0.00500	260.568	-260.568
0.308	0.00514	260.568	-260.568
0.317	0.00528	260.568	-260.568
0.325	0.00542	260.568	-260.568
0.333	0.00556	260.571	-260.571
0.350	0.00583	260.571	-260.571
0.367	0.00611	260.568	-260.568
0.383	0.00639	260.571	-260.571
0.400	0.00667	260.571	-260.571
0.417	0.00694	260.571	-260.571
0.433	0.00722	260.571	-260.571
0.450	0.00750	260.571	-260.571
0.467	0.00778	260.571	-260.571
0.483	0.00806	260.574	-260.574
0.500	0.00833	260.571	-260.571
0.517	0.00861	260.571	-260.571
0.533	0.00889	260.571	-260.571
0.550	0.00917	260.571	-260.571
0.567	0.00944	260.571	-260.571
0.583	0.00972	260.571	-260.571
0.600	0.01000	260.574	-260.574
0.617	0.01028	260.574	-260.574
0.633	0.01056	260.571	-260.571
0.650	0.01083	260.571	-260.571
0.667	0.01111	260.571	-260.571
0.683	0.01139	260.574	-260.574
0.700	0.01167	260.574	-260.574
0.717	0.01194	260.574	-260.574
0.733	0.01222	260.574	-260.574
0.750	0.01250	260.574	-260.574
0.767	0.01278	260.574	-260.574
0.783	0.01306	260.574	-260.574
0.800	0.01333	260.574	-260.574
0.817	0.01361	260.574	-260.574
0.833	0.01389	260.574	-260.574
0.850	0.01417	260.574	-260.574
0.867	0.01444	260.574	-260.574
0.883	0.01472	260.577	-260.577

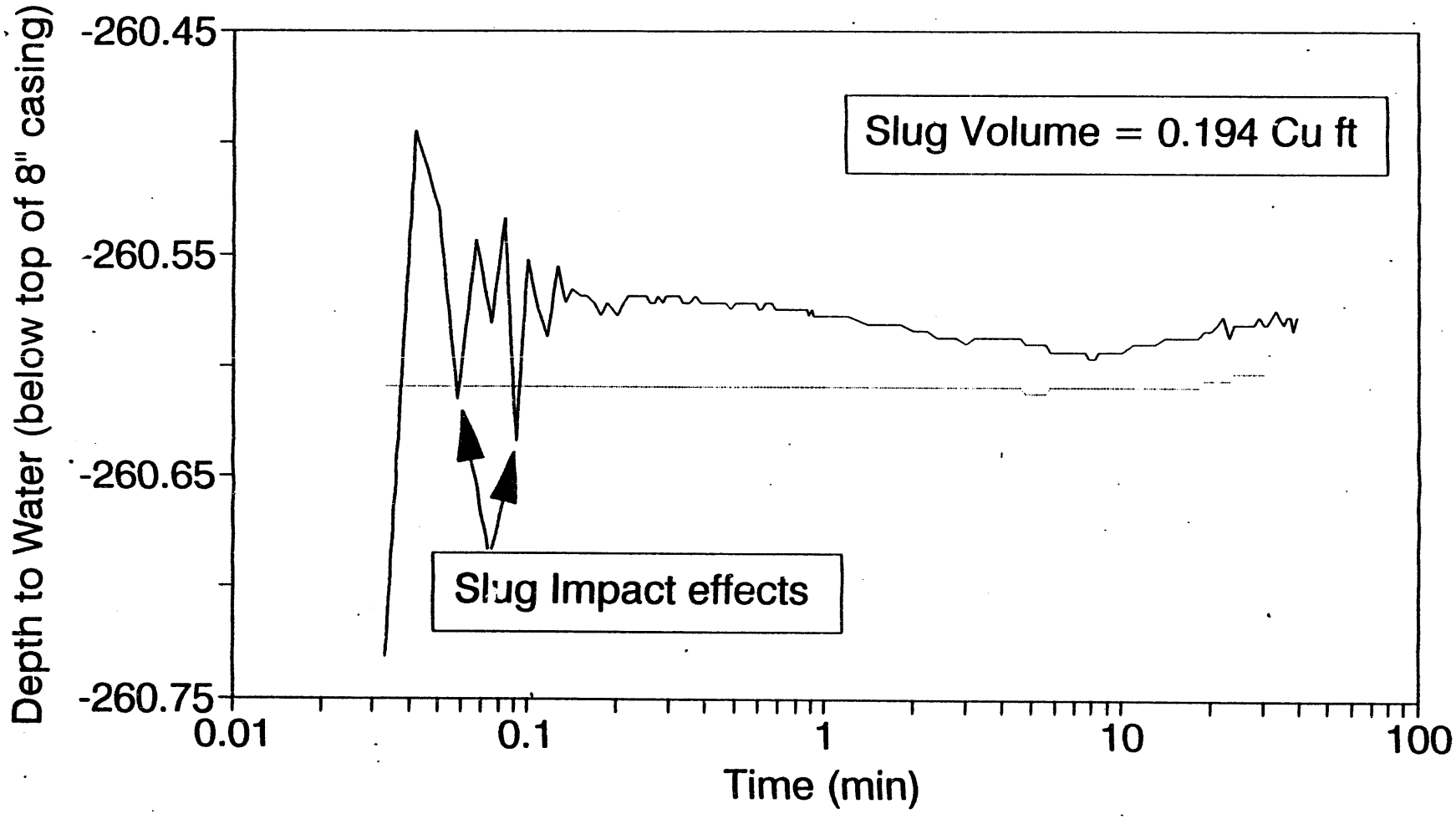
699-38-70 Slug Injection

0.900	0.01500	260.574	-260.574
0.917	0.01528	260.577	-260.577
0.933	0.01556	260.577	-260.577
0.950	0.01583	260.577	-260.577
0.967	0.01611	260.577	-260.577
0.983	0.01639	260.577	-260.577
1.00	0.01667	260.577	-260.577
1.20	0.02000	260.577	-260.577
1.40	0.02333	260.581	-260.581
1.60	0.02667	260.581	-260.581
1.80	0.03000	260.581	-260.581
2.00	0.03333	260.584	-260.584
2.20	0.03667	260.584	-260.584
2.40	0.04000	260.587	-260.587
2.60	0.04333	260.587	-260.587
2.80	0.04667	260.587	-260.587
3.00	0.05000	260.590	-260.590
3.20	0.05333	260.587	-260.587
3.40	0.05667	260.587	-260.587
3.60	0.06000	260.587	-260.587
3.80	0.06333	260.587	-260.587
4.00	0.06667	260.587	-260.587
4.20	0.07000	260.587	-260.587
4.40	0.07333	260.587	-260.587
4.60	0.07667	260.587	-260.587
4.80	0.08000	260.590	-260.590
5.00	0.08333	260.590	-260.590
5.20	0.08667	260.590	-260.590
5.40	0.09000	260.590	-260.590
5.60	0.09333	260.590	-260.590
5.80	0.09667	260.593	-260.593
6.00	0.10000	260.593	-260.593
6.20	0.10333	260.593	-260.593
6.40	0.10667	260.593	-260.593
6.60	0.11000	260.593	-260.593
6.80	0.11333	260.593	-260.593
7.00	0.11667	260.593	-260.593
7.20	0.12000	260.593	-260.593
7.40	0.12333	260.593	-260.593
7.60	0.12667	260.593	-260.593
7.80	0.13000	260.596	-260.596
8.00	0.13333	260.596	-260.596

699-38-70 Slug Injection

8.20	0.13667	260.596	-260.596
8.40	0.14000	260.593	-260.593
8.60	0.14333	260.593	-260.593
8.80	0.14667	260.593	-260.593
9.00	0.15000	260.593	-260.593
9.20	0.15333	260.593	-260.593
9.40	0.15667	260.593	-260.593
9.60	0.16000	260.593	-260.593
9.80	0.16333	260.593	-260.593
10.00	0.16667	260.593	-260.593
11.00	0.18333	260.590	-260.590
12.00	0.20000	260.590	-260.590
13.00	0.21667	260.590	-260.590
14.00	0.23333	260.587	-260.587
15.00	0.25000	260.587	-260.587
16.00	0.26667	260.587	-260.587
17.00	0.28333	260.587	-260.587
18.00	0.30000	260.587	-260.587
19.00	0.31667	260.584	-260.584
20.00	0.33333	260.584	-260.584
21.00	0.35000	260.581	-260.581
22.00	0.36667	260.577	-260.577
23.00	0.38333	260.587	-260.587
24.00	0.40000	260.581	-260.581
25.00	0.41667	260.581	-260.581
26.00	0.43333	260.581	-260.581
27.00	0.45000	260.581	-260.581
28.00	0.46667	260.581	-260.581
29.00	0.48333	260.577	-260.577
30.00	0.50000	260.581	-260.581
31.00	0.51667	260.581	-260.581
32.00	0.53333	260.577	-260.577
33.00	0.55000	260.574	-260.574
34.00	0.56667	260.577	-260.577
35.00	0.58333	260.581	-260.581
36.00	0.60000	260.577	-260.577
37.00	0.61667	260.577	-260.577
38.00	0.63333	260.584	-260.584
39.00	0.65000	260.577	-260.577

699-38-70 Slug Injection
10-Aug-93



Slug Injection — Baseline

INSTANTANEOUS SLUG TEST DATA SHEET WITHDRAWAL

Borehole: 699-38-70

Interval Tested: 260.60'-287.74' TOC 8"

Depth To Water: 260.60' TOC 8"

Depth to Transducer: 12.982' BWL

Measured by: Bret F. Strode

Slug Volume: BR-2 0 194 Cu ft

Barometric Reading:

Beginning: N/A End: N/A

Time:	Start	End
Baseline	1304	1326
Withdrawal	1327	1415

Date: 8-10-93

Initial Pressure (Pi): 260.60'

Slug Level/Pressure (Pmax) 260.919'

Borehole Diameter: 8"

Time		Pressure	Time		Pressure	Time		Pressure
Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement	Observed	Elapsed	Trans.Measurement
		See Attached.			See Attached.			

Recorded by: Robert S. Earrington Date: 8-16-93

Sign and Print Name

BD-6000-293(07/90)

Well 699-38-70
Slug Withdrawal Test

Datalogger Hermit Unit #459
Test #7 Input: 1
SWL: 260.600' TOC
Slug Withdrawn: 13:28 8/10/93

Time:min	Time:hrs	D-T-W:Ft	d(WL):Ft
0.0000	0.00000	260.574	-260.574
0.0083	0.00014	260.742	-260.742
0.0166	0.00028	260.919	-260.919
0.0250	0.00042	260.821	-260.821
0.0333	0.00056	260.742	-260.742
0.0416	0.00069	260.666	-260.666
0.0500	0.00083	260.631	-260.631
0.0583	0.00097	260.622	-260.622
0.0666	0.00111	260.622	-260.622
0.0750	0.00125	260.622	-260.622
0.0833	0.00139	260.625	-260.625
0.0916	0.00153	260.625	-260.625
0.1000	0.00167	260.625	-260.625
0.1083	0.00181	260.622	-260.622
0.1166	0.00194	260.622	-260.622
0.1250	0.00208	260.622	-260.622
0.1333	0.00222	260.622	-260.622
0.1416	0.00236	260.625	-260.625
0.1500	0.00250	260.625	-260.625
0.1583	0.00264	260.622	-260.622
0.1666	0.00278	260.622	-260.622
0.1750	0.00292	260.618	-260.618
0.1833	0.00306	260.622	-260.622
0.1916	0.00319	260.618	-260.618
0.2000	0.00333	260.618	-260.618
0.2083	0.00347	260.618	-260.618
0.2166	0.00361	260.622	-260.622
0.2250	0.00375	260.618	-260.618
0.2333	0.00389	260.618	-260.618
0.2416	0.00403	260.618	-260.618
0.2500	0.00417	260.618	-260.618
0.2583	0.00431	260.618	-260.618

Datalogger Hermit Unit #459
Test #6 Input: 1
SWL: 260.600' TOC
Baseline Started: 13:04 8/10/93

Time:min	Time:hrs	D-T-W:Ft	d(WL):Ft
0	0.0000	260.577	-260.577
1	0.0167	260.574	-260.574
2	0.0333	260.574	-260.574
3	0.0500	260.574	-260.574
4	0.0667	260.574	-260.574
5	0.0833	260.574	-260.574
6	0.1000	260.574	-260.574
7	0.1167	260.571	-260.571
8	0.1333	260.571	-260.571
9	0.1500	260.571	-260.571
10	0.1667	260.568	-260.568
11	0.1833	260.571	-260.571
12	0.2000	260.568	-260.568
13	0.2167	260.568	-260.568
14	0.2333	260.568	-260.568
15	0.2500	260.571	-260.571
16	0.2667	260.571	-260.571
17	0.2833	260.571	-260.571
18	0.3000	260.568	-260.568
19	0.3167	260.568	-260.568
20	0.3333	260.568	-260.568
21	0.3500	260.571	-260.571
22	0.3667	260.571	-260.571

699-38-70 Slug Withdrawal

0.2666	0.00444	260.618	-260.618
0.2750	0.00458	260.615	-260.615
0.2833	0.00472	260.618	-260.618
0.2916	0.00486	260.618	-260.618
0.3000	0.00500	260.618	-260.618
0.3083	0.00514	260.615	-260.615
0.3166	0.00528	260.615	-260.615
0.3250	0.00542	260.618	-260.618
0.3333	0.00556	260.618	-260.618
0.3500	0.00583	260.618	-260.618
0.3666	0.00611	260.618	-260.618
0.3833	0.00639	260.615	-260.615
0.4000	0.00667	260.615	-260.615
0.4166	0.00694	260.615	-260.615
0.4333	0.00722	260.615	-260.615
0.4500	0.00750	260.615	-260.615
0.4666	0.00778	260.615	-260.615
0.4833	0.00806	260.615	-260.615
0.5000	0.00833	260.615	-260.615
0.5166	0.00861	260.615	-260.615
0.5333	0.00889	260.615	-260.615
0.5500	0.00917	260.615	-260.615
0.5666	0.00944	260.615	-260.615
0.5833	0.00972	260.615	-260.615
0.6000	0.01000	260.615	-260.615
0.6166	0.01028	260.612	-260.612
0.6333	0.01056	260.612	-260.612
0.6500	0.01083	260.612	-260.612
0.6666	0.01111	260.612	-260.612
0.6833	0.01139	260.612	-260.612
0.7000	0.01167	260.612	-260.612
0.7166	0.01194	260.612	-260.612
0.7333	0.01222	260.612	-260.612
0.7500	0.01250	260.612	-260.612
0.7666	0.01278	260.612	-260.612
0.7833	0.01306	260.612	-260.612
0.8000	0.01333	260.612	-260.612
0.8166	0.01361	260.612	-260.612
0.8333	0.01389	260.612	-260.612
0.8500	0.01417	260.612	-260.612
0.8666	0.01444	260.612	-260.612
0.8833	0.01472	260.609	-260.609

699-38-70 Slug Withdrawal

0.9000	0.01500	260.612	-260.612
0.9166	0.01528	260.609	-260.609
0.9333	0.01556	260.612	-260.612
0.9500	0.01583	260.612	-260.612
0.9666	0.01611	260.609	-260.609
0.9833	0.01639	260.609	-260.609
1.00	0.01667	260.609	-260.609
1.20	0.02000	260.606	-260.606
1.40	0.02333	260.603	-260.603
1.60	0.02667	260.600	-260.600
1.80	0.03000	260.596	-260.596
2.00	0.03333	260.596	-260.596
2.20	0.03667	260.596	-260.596
2.40	0.04000	260.593	-260.593
2.60	0.04333	260.593	-260.593
2.80	0.04667	260.590	-260.590
3.00	0.05000	260.590	-260.590
3.20	0.05333	260.590	-260.590
3.40	0.05667	260.590	-260.590
3.60	0.06000	260.590	-260.590
3.80	0.06333	260.587	-260.587
4.00	0.06667	260.587	-260.587
4.20	0.07000	260.587	-260.587
4.40	0.07333	260.584	-260.584
4.60	0.07667	260.584	-260.584
4.80	0.08000	260.581	-260.581
5.00	0.08333	260.581	-260.581
5.20	0.08667	260.581	-260.581
5.40	0.09000	260.581	-260.581
5.60	0.09333	260.581	-260.581
5.80	0.09667	260.581	-260.581
6.00	0.10000	260.581	-260.581
6.20	0.10333	260.581	-260.581
6.40	0.10667	260.577	-260.577
6.60	0.11000	260.577	-260.577
6.80	0.11333	260.574	-260.574
7.00	0.11667	260.577	-260.577
7.20	0.12000	260.577	-260.577
7.40	0.12333	260.577	-260.577
7.60	0.12667	260.574	-260.574
7.80	0.13000	260.577	-260.577
8.00	0.13333	260.574	-260.574

699-38-70 Slug Withdrawal

8.20	0.13667	260.574	-260.574
8.40	0.14000	260.574	-260.574
8.60	0.14333	260.574	-260.574
8.80	0.14667	260.574	-260.574
9.00	0.15000	260.574	-260.574
9.20	0.15333	260.574	-260.574
9.40	0.15667	260.574	-260.574
9.60	0.16000	260.571	-260.571
9.80	0.16333	260.574	-260.574
10.00	0.16667	260.574	-260.574
11.00	0.18333	260.571	-260.571
12.00	0.20000	260.568	-260.568
13.00	0.21667	260.565	-260.565
14.00	0.23333	260.568	-260.568
15.00	0.25000	260.568	-260.568
16.00	0.26667	260.568	-260.568
17.00	0.28333	260.565	-260.565
18.00	0.30000	260.565	-260.565
19.00	0.31667	260.565	-260.565
20.00	0.33333	260.565	-260.565
21.00	0.35000	260.565	-260.565
22.00	0.36667	260.565	-260.565
23.00	0.38333	260.562	-260.562
24.00	0.40000	260.565	-260.565
25.00	0.41667	260.562	-260.562
26.00	0.43333	260.558	-260.558
27.00	0.45000	260.562	-260.562
28.00	0.46667	260.562	-260.562
29.00	0.48333	260.562	-260.562
30.00	0.50000	260.558	-260.558
31.00	0.51667	260.562	-260.562
32.00	0.53333	260.558	-260.558
33.00	0.55000	260.558	-260.558
34.00	0.56667	260.558	-260.558
35.00	0.58333	260.558	-260.558
36.00	0.60000	260.558	-260.558
37.00	0.61667	260.558	-260.558
38.00	0.63333	260.555	-260.555
39.00	0.65000	260.555	-260.555
40.00	0.66667	260.558	-260.558
41.00	0.68333	260.555	-260.555
42.00	0.70000	260.555	-260.555

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43.00	0.71667	260.555	-260.555
44.00	0.73333	260.558	-260.558
45.00	0.75000	260.555	-260.555
46.00	0.76667	260.565	-260.565
47.00	0.78333	260.558	-260.558

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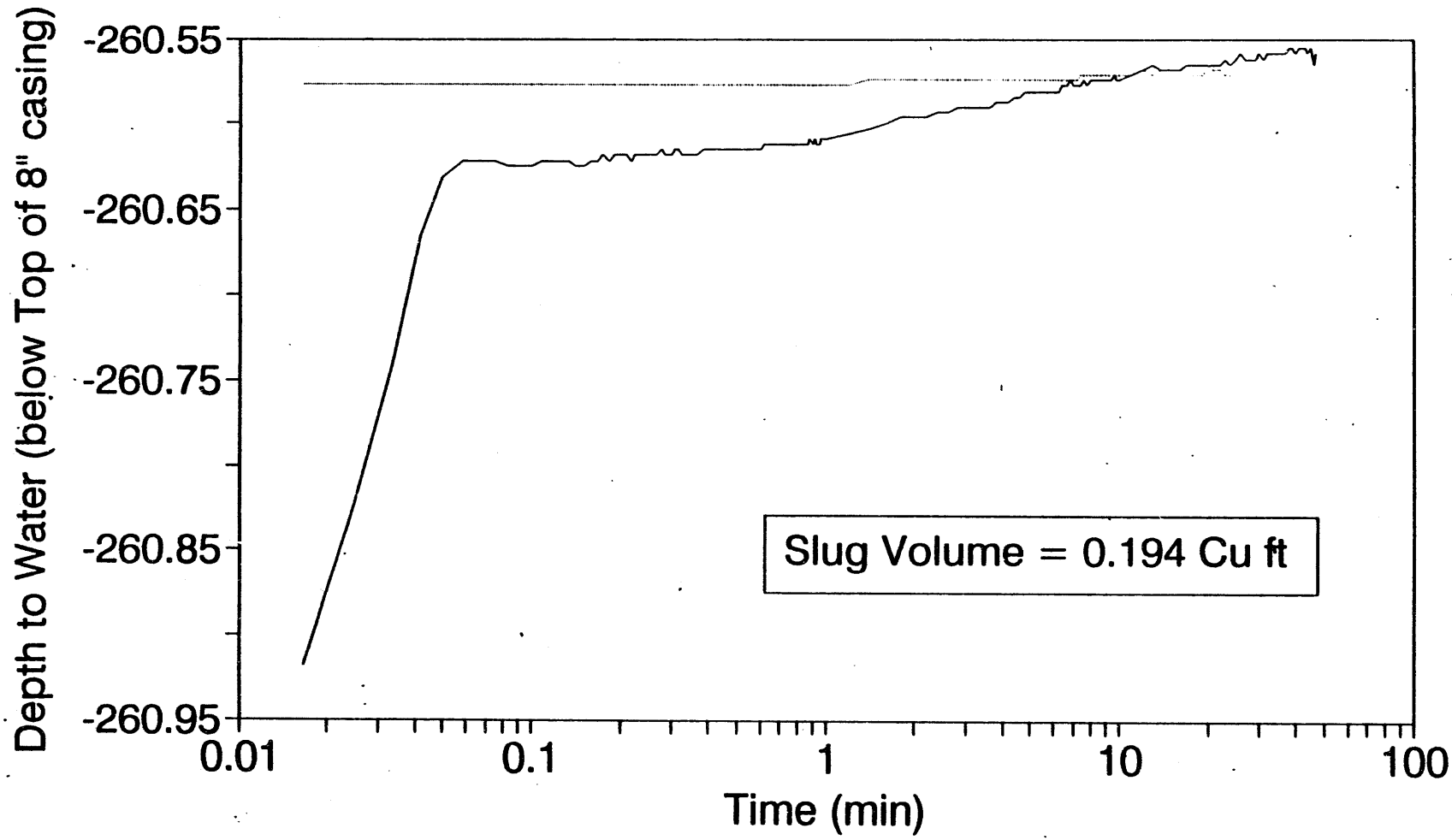
10-Aug-93



Slug Withdrawal — Baseline

DATE
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8/24/94

END