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AQUIFER PUMPING TEST RESULTS
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

 **DAMES & MOORE**

SAC28.037

February 1992
Project No. 00173-072-044



DAMES & MOORE

A PROFESSIONAL LIMITED PARTNERSHIP

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February 21, 1992

Mr. Val L. Siebal
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California Environmental Protection Agency
10151 Croydon Way, Suite 3
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Attention: Mr. James L. Tjosvold, P.E., Chief
Sacramento Responsible Party Unit
Site Mitigation Branch

Re: Transmittal of Report
Aquifer Pumping Test Results
Union Pacific Railroad Yard
Sacramento, California
Project No. 00173-072-044

Dear Mr. Tjosvold:

Union Pacific Railroad Company (UPRR) has requested Dames & Moore transmit the enclosed Report. Presented in the Report are a summary and the results of the aquifer pumping test conducted at the UPRR Sacramento yard.

If you have any questions or require further clarification, please contact Tim Parker at (916) 387-7527.

Sincerely,

DAMES & MOORE

Timothy K. Parker
Project Manager

Andrew A. Kopania
Senior Hydrogeologist

Enclosure

cc: Distribution List

SAC28.037

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SACRAMENTO, CALIFORNIA
PROJECT NUMBER 00173-072-044
AQUIFER PUMPING TEST RESULTS
FEBRUARY 1992**

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SACRAMENTO, CALIFORNIA
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AQUIFER PUMPING TEST RESULTS
February 1992**

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**AQUIFER PUMPING TEST RESULTS
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA**

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**AQUIFER PUMPING TEST RESULTS
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA**

1.0 INTRODUCTION

An aquifer pumping test was conducted at the Union Pacific Railroad Yard (UPRR) Sacramento, California, the week of November 11, 1991. The aquifer pumping test consisted of a step drawdown test followed by a constant rate pumping test. The aquifer pumping test was conducted in accordance with the California Environmental Protection Agency - Department of Toxic Substances Control (DTSC)-approved work plan (Dames & Moore, 1991a).

The purpose of the test was to monitor aquifer response to pumping and to use the data to estimate the aquifer parameters, hydraulic conductivity (K) and storativity (S). The estimates of aquifer parameters K and S can then be used to help design well fields for groundwater extraction and remediation. In addition, the response of other monitoring wells to pumping help characterize the hydrogeologic system.

1.1 RATIONALE

Most of the UPRR site is interpreted to be underlain by a sand channel which trends toward the southeast (Dames & Moore, 1991b). This channel forms the first water-bearing zone and has been referred to as the "shallow aquifer" (first hydrostratigraphic unit). Other permeable aquifer intervals (hydrostratigraphic units) are present at deeper intervals beneath this zone. The main groundwater plume occurs within the first hydrostratigraphic unit and the groundwater investigation effort has been focused primarily on this zone. For this reason, the aquifer pumping test was conducted within the first hydrostratigraphic unit. Additionally, monitoring wells screened in two underlying hydrostratigraphic units were simultaneously monitored to evaluate the hydraulic connection between these and the shallow aquifer.

The pumping well selected for the aquifer monitoring pumping test was well MW-4 (Figure 1). This well is screened across almost the entire first hydrostratigraphic unit. Additionally, MW-4 is surrounded by 13 monitoring wells within a radius of 350 feet.

1.2 MONITORING PROCEDURE

The specific wells which were monitored for response during the aquifer pumping test were MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, MW-17, MW-18, MW-28, MW-29, MW-30,

MW-33, and MW-41 (Figure 1). With the exception of MW-12, MW-28 and MW-41, all of the monitoring wells near MW-4 are within the first hydrostratigraphic unit and are screened either at the base of this zone or at the water table. Wells MW-12 and MW-28 are screened in second hydrostratigraphic unit that occurs below the first hydrostratigraphic unit. Well MW-41 is screened in the third hydrostratigraphic unit which is the deepest zone on site being assessed. Table 1 summarizes well construction information and lists spatial and vertical relationships between the wells.

Pressure transducers connected to dataloggers were used to measure and record water levels in selected groundwater monitoring wells. The transducers were placed in the selected groundwater monitoring wells 48 hours prior to the initiation of the aquifer pumping test to monitor regional trends in water levels (i.e., rising or falling water levels) and barometric pressure effects which might affect pumping test results. When the pumping test started, water levels were measured every 10 seconds for the first 10 minutes, every 30 seconds for the next 50 minutes, every minute for the next hour, every 5 minutes for the next 5 hours, every 15 minutes for the next 24 hours, and every 30 minutes for the duration of the test.

Water levels were also measured manually as back-up for the electronic readings. At the end of the aquifer pumping test, water level recovery was measured to verify results of the drawdown test. During recovery, water levels were measured at similar time intervals to those described above.

2.0 STEP DRAWDOWN PUMPING TEST

A step drawdown pumping test was conducted on November 12, 1991. The test consisted of pumping well MW-4 at different rates and measuring the resulting drawdown. The test was conducted to estimate how much drawdown was due to well losses (drawdown due to water passing through the well) and how much drawdown was due to formation losses (drawdown due to water passing through the aquifer). Both the well losses and formation losses were then evaluated and based on this evaluation, a flow rate was selected for the constant rate pumping test, so the well would not be pumped dry during that test.

Water levels in MW-4 were measured at about 33 feet below the top of casing (TOC). The total depth of the well is about 56 feet below TOC leaving a water column in the well of about 23 feet. A four inch submersible pump was placed so the pump inlet was about 2 feet from the bottom of the well leaving about 21 feet of water above the pump available for drawdown.

Well MW-4 was pumped for 60 minutes at five different rates, 16 gallons per minute (gpm), 25 gpm, 41 gpm, 61 gpm, and 74 gpm. Drawdown was measured electronically at one minute intervals for the duration of the test (Appendix A). A plot of drawdown versus time is shown in Appendix B (Figure B-1). The figure illustrates the amount of drawdown for the various pump rates, and by using these results, well losses and formation losses can be estimated. Once well losses and formation losses are estimated, then drawdown in the well for a range of flow rates can be estimated and an optimal pump rate chosen for the pump test. Using these data, well losses were estimated using the method described by Sheahan (1971) and found to be minimal. A flow rate of 60 gpm (for about 45% drawdown of the available water column) was chosen for the pump test.

3.0 CONSTANT RATE PUMPING TEST

The constant rate pumping test was started at 4:07 p.m., November 13, 1991, at a flow rate of 60 gpm and ended at 4:58 p.m., November 15, 1991. Wells monitored electronically and by hand are listed in Table 1 (see Section 1). Wells monitored by hand were measured using dedicated water level indicators. Water levels were monitored by hand approximately every two hours during the duration of the test, along with flow rate and cumulative pumped volume. Hand data were plotted as they were collected to provide an ongoing evaluation of the pump test.

Appendix A includes tables of water level and drawdown data collected during the constant rate pumping test, while Appendix B includes plots of drawdown versus time for data collected by hand monitoring and electronic monitoring (Figures B-2 through B-33). As seen in the plots, electronic data collected for wells MW-13, MW-15, MW-17, MW-18, MW-28, MW-29, and MW-30 show wide variations in drawdown and do not correspond to hand data. Transducers for each of these wells were connected to the same data logger, and the plots suggest that this data logger failed during the test. Therefore, only the hand data were used for these wells for analysis. Electronic data from the second data logger used on site corresponds very well with hand data and was used for analysis.

Drawdown was observed in all wells during the pump test and ranged from 1.27 feet to 0.19 feet. An estimation of the drawdown cone for the shallow aquifer is shown at the time of maximum drawdown (end of pump test) in Figure 1. Response was measured in all wells monitored including wells MW-12, MW-28, and MW-41, the deeper zone wells. These responses are characterized in Figures B-34 and B-35, plots of distance (distance squared from pumping well) versus drawdown (Figure B-34) and distance versus time of first response (Figure B-35). Analysis of these responses are discussed in Sections 4.0 and 5.0.

3.1 WATER DISPOSAL

Pumped water from the step drawdown and constant rate pumping tests was temporarily stored in three 20,000 gallon tanks, then discharged into the 114 inch sewer line through manhole 336/14 as specified in the Memorandum of Understanding between Union Pacific Railroad and the City of Sacramento. The volume of water extracted during the step drawdown and constant discharge pump test totalled about 190,000 gallons and was discharged over a period of 3 days.

Pumped water was sampled during the step drawdown test and analyzed on a quick turnaround basis (overnight) for chlorinated solvents, benzene, toluene, xylenes, and ethylbenzene (BTXE) and TPH gasoline. Analyses of the pumped water collected during the step drawdown test showed low levels of solvents, BTXE and TPH gasoline, which were well within discharge permit requirements (Table 2).

4.0 DATA ANALYSIS

The analysis of the aquifer pumping test results involved taking into account various factors that might potentially affect the data. These factors include influences from off-site wells, regional changes in water levels, aquifer boundary affects, partial penetration effects (when the monitoring well is not screened across the entire hydrostratigraphic unit), or changes in barometric pressure (barometric pressure changes primarily affects confined aquifers, but also may affect unconfined aquifers depending on site conditions (Bouwer, 1978)). To evaluate all the factors that may affect the data, plots of drawdown versus time were constructed (see Appendix B, Figures B2-B33). The plots show some variations in the drawdown curve after about 1,000 minutes for most of the wells, and slight recovery is evident in drawdown around 2,500 minutes. The changes in drawdown after 1,000 minutes may be due to one or more of the factors described above including aquifer boundary affects, changes in barometric pressure, or interfering pumping wells located off-site.

Influences from off-site wells are not expected since there are no known production wells within several miles of the site that extract water from the zone being tested. Regional water level changes were accounted for by monitoring water levels 48 hours before the beginning of the test. No regional changes in water levels were measured.

To check barometric pressure effects on water levels, barometric pressure readings for Executive Airport were obtained from the National Weather Service. Plots of changes in barometric pressure versus changes in water level both before and during the test were constructed. Barometric pressure changes before the test began were small and no clear effects on water levels are evident (Figure B-36). However, a semi-log plot of barometric pressure change and drawdown versus time during the pump test shows a correlation in time between change in air pressure and change in drawdown (Figure B-37).

A relatively large rise in barometric pressure was observed from about 1,000 minutes to 2,500 minutes and a corresponding increase in the rate of drawdown was observed over the same time interval. The decrease in barometric pressure from 2,500 minutes to about 2,800 minutes was observed to correspond to a decrease in drawdown (a rise in water level) over the same time interval. Since drawdowns were very slight in most cases, the barometric pressure effects can be detected. In Wells MW-13 and MW-14, where drawdowns were greatest, the barometric pressure changes appeared to exert less of an effect on water levels.

Plots were constructed for selected wells (MW-16, 18, 29, and 33) (Figures B-38 through B-41) where drawdowns were corrected for barometric pressure changes. Since changes in water levels and barometric pressure were small before the pumping test began, a barometric efficiency could not be estimated (i.e., no clear correlation between barometric pressure changes and changes in water level could

be established). A value of 50% was initially used based on Walton (1987). However, using a efficiency of 50% resulted in corrections that were too large causing even greater variations in the data. Different barometric efficiencies were then evaluated (50%, 25% and 10%) and an efficiency of 25% was chosen (a change of 0.1 foot of water in barometric pressure would cause a 0.025-foot change in drawdown). These corrected drawdowns were then matched to type curves for estimation of K and S.

Various analytical techniques were used to evaluate aquifer parameters K and S. Type curve matching for unconfined aquifers (Prickett, 1965), was used to analyze data from wells MW-13, MW-14, MW-15, and MW-16. The analysis takes into account delayed yield and can produce an estimate of the delay index (time after which delayed yield is no longer a factor). The analysis can also estimate the distance when partial penetration of a well is no longer a factor. An example calculation is included in Appendix B. Using the delay index obtained from analyzing wells MW-13, 14, 15, and 16, drawdown from the other wells (MW-11, 17, 18, 29, 30, and 33) were evaluated using Theis type curves on the late portion of the curve (after 800 minutes). This method was used since drawdowns were small compared to saturated thickness and delayed yield was not a factor as discussed in Section 5.0. Sample calculations are included in Appendix B.

As a check on the first analysis of the wells using either Prickett or Theis, K was also estimated using the Theim equation (which assumes steady state flow conditions) using different well pairs MW-13 and MW-14, MW-15 and MW-16, and MW-14, and MW-17, at time equal 2,800 minutes. A third estimate of K was made by fitting a distance-drawdown plot (Figure B-34) to a Theis type curve using wells in the shallow aquifer zone (Walton, 1987). Results for these analyses are listed in Table 3. Calculations are in Appendix B.

5.0 RESULTS

Estimates for the value of K vary from about 0.06 to 0.2 cm/sec (Table 3). The lower values are for wells MW-13 and MW-14 and may be due to vertical flow from drawdown in the pumping well (i.e., greater drawdown due to vertical flow components resulting in lower estimate of K). Drawdown in well MW-4 would cause vertical flow in the aquifer which may have affected drawdown in wells MW-13 and 14. Vertical flow in general does not affect wells that are a greater distance from the pumping well.

The analysis of the pump test data show that values of K are higher than those estimated using slug tests. This may be due to the relatively small volume of aquifer affected by slug tests. Additionally, may be due to other factors such as well screen or gravel pack effects that may affect slug test results.

The estimates of K using alternate methods yielded slightly different values. Estimates of K based on Theim resulted in values of 0.05 to 0.08 cm/sec, while matching the distance-drawdown curve (Walton, 1987) to a Theis type curve results in an estimate of 0.08 cm/sec. These values are slightly lower than those obtained using Prickett or Theis type curves on individual wells.

There appears to be little variation in K vertically as shown in results in wells screened at the water table or of the base of the aquifer. The largest difference in values of K in a well pair was found in wells MW-11 and MW-33, with values of 0.11 and 0.08 cm/sec, respectively.

The results suggest a slight anisotropy with values of K being greater parallel to the channel than they are perpendicular to the channel. Estimates of K for wells MW-15 and MW-16 are somewhat lower than the other wells. The anisotropic nature of the aquifer is also suggested by the greater drawdowns seen at a greater distance parallel to the channel (wells MW-11 and MW-33) than perpendicular to the channel (wells MW-15 and MW-16) (Figure 1).

Values of specific yield(s) were estimated using Prickett (1965) or Theis. Prickett, 1965 determines two values for S; one during the initial response of the aquifer (as it releases water as a confined aquifer) and the other during later parts of the test (as it releases water as an unconfined aquifer which is more representative of the true value).

Estimates for S (as it releases water as an unconfirmed aquifer) ranged from about 0.02 to 0.08 (Table 3), which are somewhat lower than would be expected for the specific yield of a clean sand; however, the lower estimates may be the result of dewatering of the upper portion of the upper aquifer zone which occurs in silty, sandy material which would have a lower specific yield (Bouwer, 1978).

An important result of the test was the response of wells MW-12, MW-28, and MW-41 to pumping in the first hydrostratigraphic unit. Responses were delayed and drawdown was reduced (Figures B-34 and B-35) due to the confining layers separating the first hydrostratigraphic unit from the deeper second and third hydrostratigraphic units; however, drawdowns in each of these wells suggest an interconnection between zones. This interconnection was not quantified with these data since pumping occurred in the uppermost hydrostratigraphic unit, but the hydraulic connection is important since it will affect groundwater flow, especially if the first hydrostratigraphic unit is pumped for groundwater remediation.

6.0 REFERENCES

Dames & Moore, 1991a, Work Plan, Aquifer Pumping Test, Union Pacific Railroad Yard, Sacramento, California, August 1991.

Dames & Moore, 1991b, Remedial Investigation/Feasibility Study Report, Union Pacific Railroad Yard, Sacramento, California, May 1991.

Bouwer, H., 1978, *Groundwater Hydrology*, McGraw-Hill, New York, NY, 480 pgs.

Prickett, T.A., 1965, Type-Curve Solution to Aquifer Tests Under Water Table Conditions, *Groundwater*, Vol. 3, No. 3, pp. 5-13.

Sheahan, N.T., 1971, Type Curve Solution of Step-Drawdown Test, *Groundwater*, Vol. 9, No. 1, pp. 25-29.

Walton, W.C., 1987, *Groundwater Pumping Tests Design and Analysis*, NWWA, Lewis Publishers, Inc., Chelsea, MI, 201 pgs.

TABLES

TABLE 1

**SUMMARY OF WELL CONSTRUCTION DETAILS
UNION PACIFIC SACRAMENTO YARD
SACRAMENTO, CALIFORNIA**

Well	Distance From Pumping Well (Feet)	Ground Elevation (Feet) ¹	Top of Casing Elevation (Feet) ¹	Total Depth (Feet)	Well Casing Diameter (inches)	Screened Interval (feet bgs)	Zone Monitored
MW-4 ²	—	24.68	25.83	60.0	4	34-54	—
MW-11	230	23.90	25.79	56.0	4	50-55	IB
MW-12	30	25.5	28.14	150.0	4	69-79	II
MW-13	30	25.8	27.74	45.0	4	26-41	IT
MW-14	70	26.8	28.87	58.0	4	52.5-57.5	IB
MW-15	210	25.1	27.19	44.0	4	26-41	IT
MW-16	170	25.1	27.19	57.5	4	51.8-56.8	IB
MW-17	320	25.2	27.43	45.0	4	26.5-41.5	IT
MW-18	340	25.1	27.55	57.5	4	52-57	IB
MW-28	330	25.15	24.86	150.0	4	69.0-79.0	II
MW-29	330	25.24	24.94	42.0	4	26.0-41.0	IT
MW-30	330	26.19	24.86	57.0	4	51.0-56.0	IB
MW-33	230	23.80	25.22	39.0	4	23.5-38.5	IT
MW-41	20	25.2	27.30	115.5	4	104.5-114.5	III

- 1 Mean sea level datum
 2 Pumping well.
 IB Base - First Hydrostratigraphic Unit
 IT Top - First Hydrostratigraphic Unit
 II Second Hydrostratigraphic Unit
 III Third Hydrostratigraphic Unit

TABLE 2
ANALYTICAL RESULTS MW-4
STEP DRAWDOWN TEST
(DETECTIONS ONLY)
UNION PACIFIC SACRAMENTO YARD
SACRAMENTO, CALIFORNIA

CONSTITUENT	CONCENTRATION ($\mu\text{g}/\text{l}$)
1,1-Dichloroethene	82.6
1,1-Dichloroethane	17.4
1,1,1-Trichloroethane	3.3
1,2-Dichloroethane	25.6
Trichloroethene	6.4
Tetrachloroethene	0.9
Benzene	140.0
Toluene	4.7
Total Xylenes	4.3
Ethyl Benzene	8.8
Chlorobenzene	0.7
1,4-Dichlorobenzene	0.7
TPH Gasoline	430.0

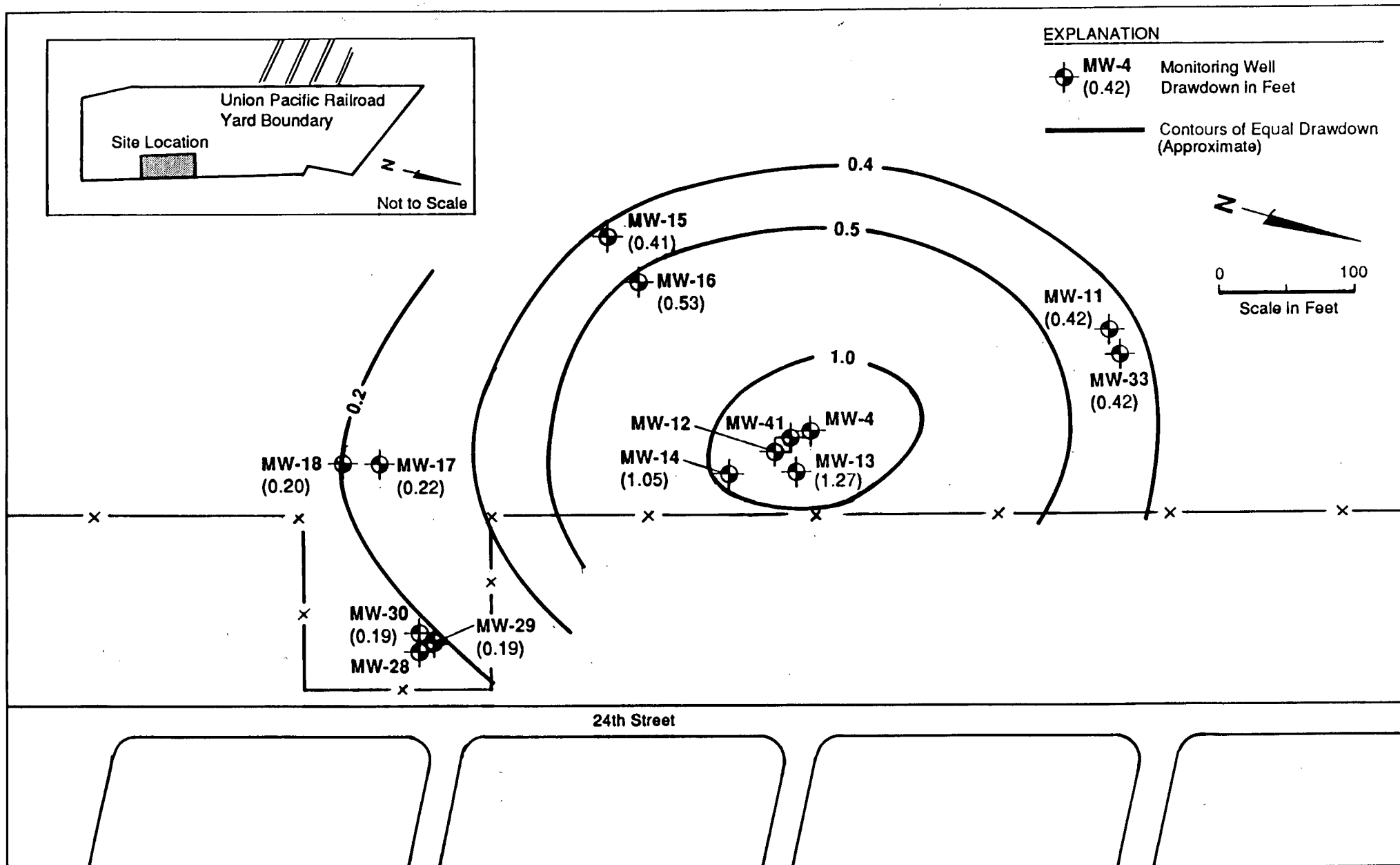
TABLE 3

AQUIFER PUMPING TEST ANALYSIS RESULTS
 UNION PACIFIC SACRAMENTO YARD
 SACRAMENTO, CALIFORNIA

Well	Hydraulic Conductivity (cm/sec)	Method	Storativity
MW-11	0.13	Theis	0.02
MW-13	0.06	Prickett	0.08
MW-14	0.05	Prickett	0.07
	0.08	Thiem	—
MW-15	0.11	Prickett	0.05
	0.05	Thiem	—
MW-16	0.07	Prickett	0.08
MW-17	0.16	Prickett	0.07
	0.05	Thiem	—
MW-18	0.16	Theis	0.04
MW-29	0.16	Prickett	0.05
MW-30	0.16	Prickett	0.07
MW-33	0.08	Prickett	0.04

— Not analyzed for storativity by Thiem method.

Figures



MAXIMUM DRAWDOWN AQUIFER PUMPING TEST

Union Pacific Railroad Yard
Sacramento, California
JANUARY 1992

Appendix
A

APPENDIX A
WATER LEVEL AND DRAWDOWN DATA

SAC28.037

Date Tuesday November 12, 1991 11:08 PM
PlotFile C:\UPPUMP\STPDWN01.PRM
DataFile C:\UPPUMP\STPDWN

Time of First Log in Specified Window
08-Nov-91 07:13:18 PM

Date	Time	Analog#01 mm-4..... ft.....	TIME	DRAWDOWN
=====				
12-Nov-91	02:10 PM	19.307	0	0.00
12-Nov-91	02:11 PM	18.224	1.0	1.08
12-Nov-91	02:12 PM	17.65	2.0	1.66
12-Nov-91	02:13 PM	17.617	3.0	1.69
12-Nov-91	02:14 PM	17.39	4.0	1.92
12-Nov-91	02:15 PM	17.347	5.0	1.96
12-Nov-91	02:16 PM	17.357	6.0	1.95
12-Nov-91	02:17 PM	17.336	7.0	1.97
12-Nov-91	02:18 PM	17.357	8.0	1.95
12-Nov-91	02:19 PM	17.314	9.0	1.99
12-Nov-91	02:20 PM	17.325	10.0	1.98
12-Nov-91	02:21 PM	17.303	11.0	2.00
12-Nov-91	02:22 PM	17.347	12.0	1.96
12-Nov-91	02:23 PM	17.336	13.0	1.97
12-Nov-91	02:24 PM	17.303	14.0	2.00
12-Nov-91	02:25 PM	17.325	15.0	1.98
12-Nov-91	02:26 PM	17.293	16.0	2.01
12-Nov-91	02:27 PM	17.314	17.0	1.99
12-Nov-91	02:28 PM	17.325	18.0	1.98
12-Nov-91	02:29 PM	17.293	19.0	2.01
12-Nov-91	02:30 PM	17.293	20.0	2.01
12-Nov-91	02:31 PM	17.303	21.0	2.00
12-Nov-91	02:32 PM	17.303	22.0	2.00
12-Nov-91	02:33 PM	17.282	23.0	2.02
12-Nov-91	02:34 PM	17.271	24.0	2.04
12-Nov-91	02:35 PM	17.282	25.0	2.02
12-Nov-91	02:36 PM	17.282	26.0	2.02
12-Nov-91	02:37 PM	17.282	27.0	2.02
12-Nov-91	02:38 PM	17.271	28.0	2.04
12-Nov-91	02:39 PM	17.293	29.0	2.01
12-Nov-91	02:40 PM	17.271	30.0	2.04
12-Nov-91	02:41 PM	17.282	31.0	2.02
12-Nov-91	02:42 PM	17.271	32.0	2.04
12-Nov-91	02:43 PM	17.26	33.0	2.05
12-Nov-91	02:44 PM	17.271	34.0	2.04
12-Nov-91	02:45 PM	17.26	35.0	2.05
12-Nov-91	02:46 PM	17.293	36.0	2.01
12-Nov-91	02:47 PM	17.271	37.0	2.04
12-Nov-91	02:48 PM	17.282	38.0	2.02

12-Nov-91	02:49 PM	17.271	39.0	2.04
12-Nov-91	02:50 PM	17.249	40.0	2.06
12-Nov-91	02:51 PM	17.271	41.0	2.04
12-Nov-91	02:52 PM	17.271	42.0	2.04
12-Nov-91	02:53 PM	17.282	43.0	2.02
12-Nov-91	02:54 PM	17.293	44.0	2.01
12-Nov-91	02:55 PM	17.271	45.0	2.04
12-Nov-91	02:56 PM	17.271	46.0	2.04
12-Nov-91	02:57 PM	17.282	47.0	2.02
12-Nov-91	02:58 PM	17.26	48.0	2.05
12-Nov-91	02:59 PM	17.271	49.0	2.04
12-Nov-91	03:00 PM	17.293	50.0	2.01
12-Nov-91	03:01 PM	17.282	51.0	2.02
12-Nov-91	03:02 PM	17.282	52.0	2.02
12-Nov-91	03:03 PM	17.271	53.0	2.04
12-Nov-91	03:04 PM	17.282	54.0	2.02
12-Nov-91	03:05 PM	17.238	55.0	2.07
12-Nov-91	03:06 PM	17.271	56.0	2.04
12-Nov-91	03:07 PM	17.249	57.0	2.06
12-Nov-91	03:08 PM	17.271	58.0	2.04
12-Nov-91	03:09 PM	17.271	59.0	2.04
12-Nov-91	03:10 PM	17.238	60.0	2.07
12-Nov-91	03:11 PM	16.643	61.0	2.66
12-Nov-91	03:12 PM	16.329	62.0	2.98
12-Nov-91	03:13 PM	16.296	63.0	3.01
12-Nov-91	03:14 PM	16.307	64.0	3.00
12-Nov-91	03:15 PM	16.286	65.0	3.02
12-Nov-91	03:16 PM	16.275	66.0	3.03
12-Nov-91	03:17 PM	16.286	67.0	3.02
12-Nov-91	03:18 PM	16.264	68.0	3.04
12-Nov-91	03:19 PM	16.296	69.0	3.01
12-Nov-91	03:20 PM	16.275	70.0	3.03
12-Nov-91	03:21 PM	16.286	71.0	3.02
12-Nov-91	03:22 PM	16.253	72.0	3.05
12-Nov-91	03:23 PM	16.275	73.0	3.03
12-Nov-91	03:24 PM	16.275	74.0	3.03
12-Nov-91	03:25 PM	16.286	75.0	3.02
12-Nov-91	03:26 PM	16.275	76.0	3.03
12-Nov-91	03:27 PM	16.275	77.0	3.03
12-Nov-91	03:28 PM	16.275	78.0	3.03
12-Nov-91	03:29 PM	16.275	79.0	3.03
12-Nov-91	03:30 PM	16.264	80.0	3.04
12-Nov-91	03:31 PM	16.264	81.0	3.04
12-Nov-91	03:32 PM	16.275	82.0	3.03
12-Nov-91	03:33 PM	16.253	83.0	3.05
12-Nov-91	03:34 PM	16.264	84.0	3.04
12-Nov-91	03:35 PM	16.242	85.0	3.06
12-Nov-91	03:36 PM	16.253	86.0	3.05
12-Nov-91	03:37 PM	16.264	87.0	3.04
12-Nov-91	03:38 PM	16.264	88.0	3.04

12-Nov-91	03:39 PM	16.253	89.0	3.05
12-Nov-91	03:40 PM	16.242	90.0	3.06
12-Nov-91	03:41 PM	16.275	91.0	3.03
12-Nov-91	03:42 PM	16.231	92.0	3.08
12-Nov-91	03:43 PM	16.231	93.0	3.08
12-Nov-91	03:44 PM	16.231	94.0	3.08
12-Nov-91	03:45 PM	16.242	95.0	3.06
12-Nov-91	03:46 PM	16.264	96.0	3.04
12-Nov-91	03:47 PM	16.253	97.0	3.05
12-Nov-91	03:48 PM	16.242	98.0	3.06
12-Nov-91	03:49 PM	16.242	99.0	3.06
12-Nov-91	03:50 PM	16.242	100.0	3.06
12-Nov-91	03:51 PM	16.242	101.0	3.06
12-Nov-91	03:52 PM	16.242	102.0	3.06
12-Nov-91	03:53 PM	16.242	103.0	3.06
12-Nov-91	03:54 PM	16.231	104.0	3.08
12-Nov-91	03:55 PM	16.231	105.0	3.08
12-Nov-91	03:56 PM	16.231	106.0	3.08
12-Nov-91	03:57 PM	16.231	107.0	3.08
12-Nov-91	03:58 PM	16.242	108.0	3.06
12-Nov-91	03:59 PM	16.253	109.0	3.05
12-Nov-91	04:00 PM	16.242	110.0	3.06
12-Nov-91	04:01 PM	16.242	111.0	3.06
12-Nov-91	04:02 PM	16.242	112.0	3.06
12-Nov-91	04:03 PM	16.242	113.0	3.06
12-Nov-91	04:04 PM	16.231	114.0	3.08
12-Nov-91	04:05 PM	16.231	115.0	3.08
12-Nov-91	04:06 PM	16.242	116.0	3.06
12-Nov-91	04:07 PM	16.221	117.0	3.09
12-Nov-91	04:08 PM	16.253	118.0	3.05
12-Nov-91	04:09 PM	16.221	119.0	3.09
12-Nov-91	04:10 PM	16.242	120.0	3.06
12-Nov-91	04:11 PM	14.401	121.0	4.91
12-Nov-91	04:12 PM	14.282	122.0	5.02
12-Nov-91	04:13 PM	14.261	123.0	5.05
12-Nov-91	04:14 PM	14.261	124.0	5.05
12-Nov-91	04:15 PM	14.239	125.0	5.07
12-Nov-91	04:16 PM	14.228	126.0	5.08
12-Nov-91	04:17 PM	14.239	127.0	5.07
12-Nov-91	04:18 PM	14.207	128.0	5.10
12-Nov-91	04:19 PM	14.228	129.0	5.08
12-Nov-91	04:20 PM	14.217	130.0	5.09
12-Nov-91	04:21 PM	14.239	131.0	5.07
12-Nov-91	04:22 PM	14.217	132.0	5.09
12-Nov-91	04:23 PM	14.196	133.0	5.11
12-Nov-91	04:24 PM	14.207	134.0	5.10
12-Nov-91	04:25 PM	14.217	135.0	5.09
12-Nov-91	04:26 PM	14.185	136.0	5.12
12-Nov-91	04:27 PM	14.185	137.0	5.12
12-Nov-91	04:28 PM	14.196	138.0	5.11

12-Nov-91	04:29 PM	14.217	139.0	5.09
12-Nov-91	04:30 PM	14.207	140.0	5.10
12-Nov-91	04:31 PM	14.185	141.0	5.12
12-Nov-91	04:32 PM	14.196	142.0	5.11
12-Nov-91	04:33 PM	14.207	143.0	5.10
12-Nov-91	04:34 PM	14.196	144.0	5.11
12-Nov-91	04:35 PM	14.196	145.0	5.11
12-Nov-91	04:36 PM	14.207	146.0	5.10
12-Nov-91	04:37 PM	14.196	147.0	5.11
12-Nov-91	04:38 PM	14.207	148.0	5.10
12-Nov-91	04:39 PM	14.185	149.0	5.12
12-Nov-91	04:40 PM	14.174	150.0	5.13
12-Nov-91	04:41 PM	14.196	151.0	5.11
12-Nov-91	04:42 PM	14.152	152.0	5.16
12-Nov-91	04:43 PM	14.174	153.0	5.13
12-Nov-91	04:44 PM	14.163	154.0	5.14
12-Nov-91	04:45 PM	14.185	155.0	5.12
12-Nov-91	04:46 PM	14.185	156.0	5.12
12-Nov-91	04:47 PM	14.185	157.0	5.12
12-Nov-91	04:48 PM	14.174	158.0	5.13
12-Nov-91	04:49 PM	14.174	159.0	5.13
12-Nov-91	04:50 PM	14.163	160.0	5.14
12-Nov-91	04:51 PM	14.174	161.0	5.13
12-Nov-91	04:52 PM	14.152	162.0	5.16
12-Nov-91	04:53 PM	14.152	163.0	5.16
12-Nov-91	04:54 PM	14.174	164.0	5.13
12-Nov-91	04:55 PM	14.163	165.0	5.14
12-Nov-91	04:56 PM	14.174	166.0	5.13
12-Nov-91	04:57 PM	14.163	167.0	5.14
12-Nov-91	04:58 PM	14.196	168.0	5.11
12-Nov-91	04:59 PM	14.142	169.0	5.17
12-Nov-91	05:00 PM	14.152	170.0	5.16
12-Nov-91	05:01 PM	14.142	171.0	5.17
12-Nov-91	05:02 PM	14.163	172.0	5.14
12-Nov-91	05:03 PM	14.152	173.0	5.16
12-Nov-91	05:04 PM	14.163	174.0	5.14
12-Nov-91	05:05 PM	14.163	175.0	5.14
12-Nov-91	05:06 PM	14.174	176.0	5.13
12-Nov-91	05:07 PM	14.163	177.0	5.14
12-Nov-91	05:08 PM	14.163	178.0	5.14
12-Nov-91	05:09 PM	14.185	179.0	5.12
12-Nov-91	05:10 PM	14.152	180.0	5.16
12-Nov-91	05:11 PM	11.359	181.0	7.95
12-Nov-91	05:12 PM	11.532	182.0	7.77
12-Nov-91	05:13 PM	11.532	183.0	7.77
12-Nov-91	05:14 PM	11.51	184.0	7.80
12-Nov-91	05:15 PM	11.521	185.0	7.79
12-Nov-91	05:16 PM	11.499	186.0	7.81
12-Nov-91	05:17 PM	11.489	187.0	7.82
12-Nov-91	05:18 PM	11.51	188.0	7.80

12-Nov-91	05:19 PM	11.499	189.0	7.81
12-Nov-91	05:20 PM	11.499	190.0	7.81
12-Nov-91	05:21 PM	11.489	191.0	7.82
12-Nov-91	05:22 PM	11.478	192.0	7.83
12-Nov-91	05:23 PM	11.456	193.0	7.85
12-Nov-91	05:24 PM	11.467	194.0	7.84
12-Nov-91	05:25 PM	11.478	195.0	7.83
12-Nov-91	05:26 PM	11.456	196.0	7.85
12-Nov-91	05:27 PM	11.445	197.0	7.86
12-Nov-91	05:28 PM	11.445	198.0	7.86
12-Nov-91	05:29 PM	11.467	199.0	7.84
12-Nov-91	05:30 PM	11.435	200.0	7.87
12-Nov-91	05:31 PM	11.435	201.0	7.87
12-Nov-91	05:32 PM	11.424	202.0	7.88
12-Nov-91	05:33 PM	11.456	203.0	7.85
12-Nov-91	05:34 PM	11.456	204.0	7.85
12-Nov-91	05:35 PM	11.445	205.0	7.86
12-Nov-91	05:36 PM	11.445	206.0	7.86
12-Nov-91	05:37 PM	11.435	207.0	7.87
12-Nov-91	05:38 PM	11.445	208.0	7.86
12-Nov-91	05:39 PM	11.435	209.0	7.87
12-Nov-91	05:40 PM	11.402	210.0	7.91
12-Nov-91	05:41 PM	11.402	211.0	7.91
12-Nov-91	05:42 PM	11.402	212.0	7.91
12-Nov-91	05:43 PM	11.402	213.0	7.91
12-Nov-91	05:44 PM	11.413	214.0	7.89
12-Nov-91	05:45 PM	11.413	215.0	7.89
12-Nov-91	05:46 PM	11.402	216.0	7.91
12-Nov-91	05:47 PM	11.402	217.0	7.91
12-Nov-91	05:48 PM	11.391	218.0	7.92
12-Nov-91	05:49 PM	11.391	219.0	7.92
12-Nov-91	05:50 PM	11.391	220.0	7.92
12-Nov-91	05:51 PM	11.391	221.0	7.92
12-Nov-91	05:52 PM	11.38	222.0	7.93
12-Nov-91	05:53 PM	11.391	223.0	7.92
12-Nov-91	05:54 PM	11.391	224.0	7.92
12-Nov-91	05:55 PM	11.37	225.0	7.94
12-Nov-91	05:56 PM	11.37	226.0	7.94
12-Nov-91	05:57 PM	11.37	227.0	7.94
12-Nov-91	05:58 PM	11.38	228.0	7.93
12-Nov-91	05:59 PM	11.391	229.0	7.92
12-Nov-91	06:00 PM	11.391	230.0	7.92
12-Nov-91	06:01 PM	11.359	231.0	7.95
12-Nov-91	06:02 PM	11.37	232.0	7.94
12-Nov-91	06:03 PM	11.38	233.0	7.93
12-Nov-91	06:04 PM	11.37	234.0	7.94
12-Nov-91	06:05 PM	11.37	235.0	7.94
12-Nov-91	06:06 PM	11.359	236.0	7.95
12-Nov-91	06:07 PM	11.359	237.0	7.95
12-Nov-91	06:08 PM	11.37	238.0	7.94

12-Nov-91	06:09 PM	11.359	239.0	7.95
12-Nov-91	06:10 PM	11.37	240.0	7.94
12-Nov-91	06:11 PM	9.5937	241.0	9.71
12-Nov-91	06:12 PM	9.5612	242.0	9.75
12-Nov-91	06:13 PM	9.5396	243.0	9.77
12-Nov-91	06:14 PM	9.5288	244.0	9.78
12-Nov-91	06:15 PM	9.5396	245.0	9.77
12-Nov-91	06:16 PM	9.5288	246.0	9.78
12-Nov-91	06:17 PM	9.5288	247.0	9.78
12-Nov-91	06:18 PM	9.5071	248.0	9.80
12-Nov-91	06:19 PM	9.4963	249.0	9.81
12-Nov-91	06:20 PM	9.4963	250.0	9.81
12-Nov-91	06:21 PM	9.4854	251.0	9.82
12-Nov-91	06:22 PM	9.4854	252.0	9.82
12-Nov-91	06:23 PM	9.4854	253.0	9.82
12-Nov-91	06:24 PM	9.4854	254.0	9.82
12-Nov-91	06:25 PM	9.4854	255.0	9.82
12-Nov-91	06:26 PM	9.4746	256.0	9.83
12-Nov-91	06:27 PM	9.4854	257.0	9.82
12-Nov-91	06:28 PM	9.4746	258.0	9.83
12-Nov-91	06:29 PM	9.453	259.0	9.85
12-Nov-91	06:30 PM	9.4746	260.0	9.83
12-Nov-91	06:31 PM	9.4746	261.0	9.83
12-Nov-91	06:32 PM	9.4746	262.0	9.83
12-Nov-91	06:33 PM	9.4746	263.0	9.83
12-Nov-91	06:34 PM	9.4746	264.0	9.83
12-Nov-91	06:35 PM	9.453	265.0	9.85
12-Nov-91	06:36 PM	9.4638	266.0	9.84
12-Nov-91	06:37 PM	9.453	267.0	9.85
12-Nov-91	06:38 PM	9.4638	268.0	9.84
12-Nov-91	06:39 PM	9.4638	269.0	9.84
12-Nov-91	06:40 PM	9.453	270.0	9.85
12-Nov-91	06:41 PM	9.4421	271.0	9.86
12-Nov-91	06:42 PM	9.453	272.0	9.85
12-Nov-91	06:43 PM	9.453	273.0	9.85
12-Nov-91	06:44 PM	9.453	274.0	9.85
12-Nov-91	06:45 PM	9.453	275.0	9.85
12-Nov-91	06:46 PM	9.4421	276.0	9.86
12-Nov-91	06:47 PM	9.4313	277.0	9.88
12-Nov-91	06:48 PM	9.4421	278.0	9.86
12-Nov-91	06:49 PM	9.453	279.0	9.85
12-Nov-91	06:50 PM	9.4421	280.0	9.86
12-Nov-91	06:51 PM	9.4421	281.0	9.86
12-Nov-91	06:52 PM	9.4421	282.0	9.86
12-Nov-91	06:53 PM	9.4313	283.0	9.88
12-Nov-91	06:54 PM	9.4313	284.0	9.88
12-Nov-91	06:55 PM	9.4205	285.0	9.89
12-Nov-91	06:56 PM	9.4205	286.0	9.89
12-Nov-91	06:57 PM	9.4205	287.0	9.89
12-Nov-91	06:58 PM	9.4421	288.0	9.86

12-Nov-91	06:59 PM	9.4205	289.0	9.89
12-Nov-91	07:00 PM	9.4096	290.0	9.90
12-Nov-91	07:01 PM	9.4313	291.0	9.88
12-Nov-91	07:02 PM	9.4421	292.0	9.86
12-Nov-91	07:03 PM	9.4205	293.0	9.89
12-Nov-91	07:04 PM	9.4421	294.0	9.86
12-Nov-91	07:05 PM	9.4205	295.0	9.89
12-Nov-91	07:06 PM	9.4313	296.0	9.88
12-Nov-91	07:07 PM	9.4421	297.0	9.86
12-Nov-91	07:08 PM	9.4205	298.0	9.89
12-Nov-91	07:09 PM	9.4096	299.0	9.90
12-Nov-91	07:10 PM	9.4096	300.0	9.90
12-Nov-91	07:11 PM	18.278	301.0	1.03
12-Nov-91	07:12 PM	18.657	302.0	0.65
12-Nov-91	07:13 PM	18.787	303.0	0.52
12-Nov-91	07:14 PM	18.884	304.0	0.42
12-Nov-91	07:15 PM	18.928	305.0	0.38
12-Nov-91	07:16 PM	18.971	306.0	0.34
12-Nov-91	07:17 PM	19.014	307.0	0.29
12-Nov-91	07:18 PM	19.025	308.0	0.28
12-Nov-91	07:19 PM	19.058	309.0	0.25
12-Nov-91	07:20 PM	19.058	310.0	0.25
12-Nov-91	07:21 PM	19.068	311.0	0.24
12-Nov-91	07:22 PM	19.09	312.0	0.22
12-Nov-91	07:23 PM	19.09	313.0	0.22
12-Nov-91	07:24 PM	19.101	314.0	0.21
12-Nov-91	07:25 PM	19.112	315.0	0.20
12-Nov-91	07:26 PM	19.112	316.0	0.20
12-Nov-91	07:27 PM	19.122	317.0	0.18
12-Nov-91	07:28 PM	19.133	318.0	0.17
12-Nov-91	07:29 PM	19.133	319.0	0.17
12-Nov-91	07:30 PM	19.133	320.0	0.17
12-Nov-91	07:31 PM	19.144	321.0	0.16
12-Nov-91	07:32 PM	19.155	322.0	0.15
12-Nov-91	07:33 PM	19.155	323.0	0.15
12-Nov-91	07:34 PM	19.155	324.0	0.15
12-Nov-91	07:35 PM	19.155	325.0	0.15
12-Nov-91	07:36 PM	19.166	326.0	0.14
12-Nov-91	07:37 PM	19.177	327.0	0.13
12-Nov-91	07:38 PM	19.177	328.0	0.13
12-Nov-91	07:39 PM	19.177	329.0	0.13
12-Nov-91	07:40 PM	19.177	330.0	0.13
12-Nov-91	07:41 PM	19.187	331.0	0.12
12-Nov-91	07:42 PM	19.187	332.0	0.12
12-Nov-91	07:43 PM	19.187	333.0	0.12

UPRR SACRAMENTO Pump Test Hand Data (November, 1991)

WELL	DATE	HOUR	MINUTE	ELAPSED TIME (min.)	DEPTH TO WATER (feet)	DRAWDOWN (feet)
MW-11	1	16	7	0	32.81	0
MW-11	1	17	53	106	32.86	0.05
MW-11	1	19	42	215	32.98	0.17
MW-11	1	20	47	280	33.01	0.2
MW-11	1	22	45	398	33.02	0.21
MW-11	2	0	43	516	33.04	0.23
MW-11	2	2	44	637	33.06	0.25
MW-11	2	4	44	757	33.075	0.265
MW-11	2	6	43	876	33.08	0.27
MW-11	2	9	0	1013	33.09	0.28
MW-11	2	10	51	1124	33.1	0.29
MW-11	2	12	52	1245	33.1	0.29
MW-11	2	14	46	1359	33.11	0.3
MW-11	2	16	58	1491	33.14	0.33
MW-11	2	19	19	1632	33.16	0.35
MW-11	2	21	44	1777	33.18	0.37
MW-11	3	0	46	1959	33.18	0.37
MW-11	3	3	45	2138	33.2	0.39
MW-11	3	6	47	2320	33.2	0.39
MW-11	3	9	51	2504	33.2	0.39
MW-11	3	12	55	2688	33.2	0.39
MW-11	3	15	23	2836	33.22	0.41
MW-11	3	16	48	2921	33.23	0.42
MW-11	3	16	58	2931	33.23	0.42
MW-11	3	16	58.08	2931.08	33.22	0.41
MW-11	3	17	4.75	2937.75	33.2	0.39
MW-11	3	17	11.78	2944.78	33.18	0.37
MW-11	3	17	18	2951	33.16	0.35
MW-11	3	17	27	2960	33.14	0.33
MW-11	3	17	46	2979	33.12	0.31
MW-11	3	17	58	2991	33.11	0.3
MW-11	3	18	56	3049	33.09	0.28
MW-11	3	19	59	3112	33.06	0.25
MW-11	3	21	18	3191	33.04	0.23
MW-11	4	8	12	3845	32.96	0.15
MW-11	5	13	30	5603	32.85	0.04
MW-12	1	16	7	0	35.71	0
MW-12	1	16	9.75	2.75	35.73	0.02
MW-12	1	16	14.5	7.5	35.79	0.08
MW-12	1	16	18.25	11.25	35.74	0.03
MW-12	1	16	23	16	35.75	0.04
MW-12	1	16	27.25	20.25	35.75	0.04
MW-12	1	16	31.83	24.83	35.75	0.04
MW-12	1	16	34.83	27.83	35.77	0.06
MW-12	1	16	44.83	37.83	35.86	0.15
MW-12	1	16	50.75	43.75	35.86	0.15
MW-12	1	16	53.75	46.75	35.87	0.16
MW-12	1	17	0.25	53.25	35.87	0.16
MW-12	1	17	15	68	35.88	0.17
MW-12	1	19	29	202	35.93	0.22
MW-12	1	20	38	271	35.93	0.22
MW-12	1	22	39	392	35.93	0.22
MW-12	2	0	38	511	35.95	0.24
MW-12	2	4	37	750	35.96	0.25
MW-12	2	6	37	870	35.97	0.26
MW-12	2	8	46	999	35.98	0.27
MW-12	2	10	46	1119	35.99	0.28
MW-12	2	12	47	1240	35.99	0.28
MW-12	2	14	41	1354	35.99	0.28
MW-12	2	16	54	1487	36.02	0.31
MW-12	2	19	10	1623	36.03	0.32
MW-12	2	21	39	1772	36.04	0.33
MW-12	3	0	33	1946	36.04	0.33
MW-12	3	3	35	2128	36.06	0.35
MW-12	3	6	39	2312	36.07	0.36
MW-12	3	9	45	2498	36.04	0.33
MW-12	3	12	50	2683	36.03	0.32
MW-12	3	15	16	2829	36.04	0.33
MW-12	3	16	55	2928	36	0.29
MW-12	3	17	1.5	2934.5	35.98	0.27

UPRR SACRAMENTO Pump Test Hand Data (November, 1991)

WELL	DATE	HOUR	MINUTE	ELAPSED TIME (min.)	DEPTH TO WATER (feet)	DRAWDOWN (feet)
MW-12	3	17	5.25	2938.25	35.95	0.24
MW-12	3	17	9.5	2942.5	35.94	0.23
MW-12	3	17	15.75	2948.75	35.92	0.21
MW-12	3	17	22	2955	35.92	0.21
MW-12	3	17	35	2968	35.9	0.19
MW-12	3	17	42	2975	35.88	0.17
MW-12	3	18	0	2993	35.88	0.17
MW-12	3	18	36	3029	35.875	0.165
MW-12	3	20	2	3115	35.84	0.13
MW-12	3	21	11	3184	35.83	0.12
MW-12	4	8	5	3838	35.79	0.08
MW-12	5	13	25	5598	35.79	0.08
MW-13	1	16	7	0	35.12	0
MW-13	1	16	10.33	3.33	35.31	0.19
MW-13	1	16	12.38	5.38	35.38	0.26
MW-13	1	16	14.2	7.2	35.44	0.32
MW-13	1	16	15.67	8.67	35.47	0.35
MW-13	1	16	16.78	9.78	35.49	0.37
MW-13	1	16	17.92	10.92	35.52	0.4
MW-13	1	16	18.92	11.92	35.53	0.41
MW-13	1	16	20.42	13.42	35.55	0.43
MW-13	1	16	21.58	14.58	35.57	0.45
MW-13	1	16	23.08	16.08	35.58	0.46
MW-13	1	16	24.42	17.42	35.59	0.47
MW-13	1	16	26.25	19.25	35.62	0.5
MW-13	1	16	27.75	20.75	35.625	0.505
MW-13	1	16	30	23	35.64	0.52
MW-13	1	16	31.92	24.92	35.66	0.54
MW-13	1	16	33.33	26.33	35.66	0.54
MW-13	1	16	34.75	27.75	35.675	0.555
MW-13	1	16	36.43	29.43	35.68	0.56
MW-13	1	16	42	35	35.72	0.6
MW-13	1	16	49	42	35.75	0.63
MW-13	1	16	53.83	46.83	35.77	0.65
MW-13	1	16	59.92	52.92	35.795	0.675
MW-13	1	17	5.5	58.5	35.81	0.69
MW-13	1	17	15.5	68.5	35.83	0.71
MW-13	1	17	27	80	35.85	0.73
MW-13	1	19	38	211	35.93	0.81
MW-13	1	20	39	272	35.96	0.84
MW-13	1	22	37	390	35.98	0.86
MW-13	2	0	36	509	36.02	0.9
MW-13	2	2	36	629	36.05	0.93
MW-13	2	4	36	749	36.08	0.96
MW-13	2	6	36	869	36.11	0.99
MW-13	2	8	43	996	36.13	1.01
MW-13	2	10	44	1117	36.14	1.02
MW-13	2	12	46	1239	36.16	1.04
MW-13	2	14	39	1352	36.18	1.06
MW-13	2	16	53	1486	36.22	1.1
MW-13	2	19	8	1621	36.25	1.13
MW-13	2	21	35	1768	36.27	1.15
MW-13	3	0	31	1944	36.29	1.17
MW-13	3	3	33	2126	36.3	1.18
MW-13	3	6	38	2311	36.35	1.23
MW-13	3	9	43	2496	36.34	1.22
MW-13	3	12	49	2682	36.35	1.23
MW-13	3	15	15	2828	36.38	1.26
MW-13	3	16	47	2920	36.39	1.27
MW-13	3	16	58	2931	36.39	1.27
MW-13	3	16	59	2932	36.325	1.205
MW-13	3	17	1	2934	36.27	1.15
MW-13	3	17	2	2935	36.22	1.1
MW-13	3	17	3	2936	36.19	1.07
MW-13	3	17	4	2937	36.175	1.055
MW-13	3	17	5	2938	36.13	1.01
MW-13	3	17	7	2940	36.08	0.96
MW-13	3	17	8	2941	36.03	0.91
MW-13	3	17	9	2942	36.02	0.9
MW-13	3	17	11	2944	35.99	0.87
MW-13	3	17	12	2945	35.975	0.855
MW-13	3	17	13	2946	35.96	0.84
MW-13	3	17	15	2948	35.945	0.825
MW-13	3	17	16	2949	35.93	0.81

UPRR SACRAMENTO Pump Test Hand Data (November, 1991)

WELL	DATE	HOUR	MINUTE	ELAPSED TIME (min.)	DEPTH TO WATER (feet)	DRAWDOWN (feet)
MW-13	3	17	17	2950	35.92	0.8
MW-13	3	17	19	2952	35.9	0.78
MW-13	3	17	21	2954	35.88	0.76
MW-13	3	17	25	2958	35.86	0.74
MW-13	3	17	32	2965	35.825	0.705
MW-13	3	17	36	2969	35.8	0.68
MW-13	3	17	42	2975	35.775	0.655
MW-13	3	17	48	2981	35.76	0.64
MW-13	3	17	58	2991	35.73	0.61
MW-13	3	18	33	3026	35.68	0.56
MW-13	3	19	18	3071	35.61	0.49
MW-13	3	19	58	3111	35.57	0.45
MW-13	3	21	8	3181	35.53	0.41
MW-13	4	8	7	3840	35.33	0.21
MW-13	5	13	24	5597	35.18	0.06
MW-14	1	16	7	0	36.41	0
MW-14	1	16	12.25	5.25	36.8	0.39
MW-14	1	16	15.25	8.25	36.84	0.43
MW-14	1	16	18.08	11.08	36.88	0.47
MW-14	1	16	22	15	36.9	0.49
MW-14	1	16	24.08	17.08	36.91	0.5
MW-14	1	16	26.58	19.58	36.92	0.51
MW-14	1	16	28	21	36.93	0.52
MW-14	1	16	30.33	23.33	36.94	0.53
MW-14	1	16	32.75	25.75	36.95	0.54
MW-14	1	16	35	28	36.95	0.54
MW-14	1	16	37.5	30.5	36.96	0.55
MW-14	1	16	38.25	31.25	36.97	0.56
MW-14	1	16	43.5	36.5	36.98	0.57
MW-14	1	16	47.33	40.33	36.99	0.58
MW-14	1	16	52	45	37	0.59
MW-14	1	16	58.25	51.25	37.02	0.61
MW-14	1	17	16	69	37.04	0.63
MW-14	1	19	32	205	37.11	0.7
MW-14	1	20	44	277	37.13	0.72
MW-14	1	22	40	393	37.15	0.74
MW-14	2	0	40	513	37.18	0.77
MW-14	2	2	40	633	37.2	0.79
MW-14	2	4	38	751	37.22	0.81
MW-14	2	6	38	871	37.24	0.83
MW-14	2	8	54	1007	37.26	0.85
MW-14	2	10	48	1121	37.27	0.86
MW-14	2	12	49	1242	37.29	0.88
MW-14	2	14	43	1356	37.31	0.9
MW-14	2	16	55	1488	37.33	0.92
MW-14	2	19	13	1626	37.36	0.95
MW-14	2	21	37	1770	37.38	0.97
MW-14	3	0	34	1947	37.39	0.98
MW-14	3	3	37	2130	37.42	1.01
MW-14	3	6	41	2314	37.44	1.03
MW-14	3	9	47	2500	37.42	1.01
MW-14	3	12	52	2685	37.43	1.02
MW-14	3	15	17	2830	37.46	1.05
MW-14	3	16	50	2923	37.38	0.97
MW-14	3	16	58.17	2931.17	37.34	0.93
MW-14	3	16	59	2932	37.17	0.76
MW-14	3	16	59.5	2932.5	37.14	0.73
MW-14	3	17	2.33	2935.33	37.05	0.64
MW-14	3	17	3	2936	37.02	0.61
MW-14	3	17	3.5	2936.5	37.01	0.6
MW-14	3	17	6.75	2939.75	36.98	0.57
MW-14	3	17	8	2941	36.96	0.55
MW-14	3	17	11.5	2944.5	36.93	0.52
MW-14	3	17	13	2946	36.92	0.51
MW-14	3	17	17.5	2950.5	36.91	0.5
MW-14	3	17	19.3	2952.3	36.9	0.49
MW-14	3	17	25	2958	36.88	0.47
MW-14	3	17	33	2966	36.84	0.43
MW-14	3	17	44	2977	36.82	0.41
MW-14	3	17	59	2992	36.79	0.38
MW-14	3	18	37	3030	36.77	0.36
MW-14	3	19	59	3112	36.68	0.27
MW-14	4	8	8	3841	36.61	0.2
MW-14	5	13	27	5600	36.47	0.06

UPRR SACRAMENTO Pump Test Hand Data (November, 1991)

WELL	DATE	HOUR	MINUTE	ELAPSED TIME (min.)	DEPTH TO WATER (feet)	DRAWDOWN (feet)
MW-15	1	16	7	0	34.72	0
MW-15	1	16	16	9	34.75	0.03
MW-15	1	16	18.5	11.5	34.75	0.03
MW-15	1	16	34	27	34.79	0.07
MW-15	1	16	50.25	43.25	34.82	0.1
MW-15	1	17	12	65	34.84	0.12
MW-15	1	19	7	180	34.87	0.15
MW-15	1	20	56	289	34.9	0.18
MW-15	1	22	50	403	34.91	0.19
MW-15	2	0	49	522	34.92	0.2
MW-15	2	2	50	643	34.94	0.22
MW-15	2	4	49	762	34.96	0.24
MW-15	2	6	49	882	34.98	0.26
MW-15	2	9	18	1031	34.99	0.27
MW-15	2	10	55	1128	34.97	0.25
MW-15	2	12	58	1251	34.99	0.27
MW-15	2	14	52	1365	35	0.28
MW-15	2	17	2	1495	35.02	0.3
MW-15	2	19	25	1638	35.05	0.33
MW-15	2	21	49	1782	35.06	0.34
MW-15	3	0	45	1958	35.08	0.36
MW-15	3	3	50	2143	35.09	0.37
MW-15	3	6	54	2327	35.11	0.39
MW-15	3	9	55	2508	35.1	0.38
MW-15	3	13	1	2694	35.1	0.38
MW-15	3	15	27	2840	35.12	0.4
MW-15	3	17	0	2933	35.13	0.41
MW-15	3	17	3	2936	35.12	0.4
MW-15	3	17	7	2940	35.11	0.39
MW-15	3	17	15	2948	35.09	0.37
MW-15	3	17	23	2956	35.07	0.35
MW-15	3	17	34	2967	35.05	0.33
MW-15	3	17	40	2973	35.03	0.31
MW-15	3	18	2	2995	35.02	0.3
MW-15	3	19	2	3055	35	0.28
MW-15	3	20	4	3117	34.98	0.26
MW-15	3	21	23	3196	34.96	0.24
MW-15	4	8	16	3849	34.88	0.16
MW-15	5	13	35	5608	34.74	0.02
MW-16	1	16	7	0	34.71	0
MW-16	1	16	14.33	7.33	34.79	0.08
MW-16	1	16	17.17	10.17	34.81	0.1
MW-16	1	16	19.75	12.75	34.81	0.1
MW-16	1	16	32.5	25.5	34.85	0.14
MW-16	1	16	48.5	41.5	34.89	0.18
MW-16	1	17	10	63	34.92	0.21
MW-16	1	18	16	129	34.95	0.24
MW-16	1	19	5	178	34.95	0.24
MW-16	1	20	54	287	34.98	0.27
MW-16	1	22	49	402	34.99	0.28
MW-16	2	0	47	520	35.02	0.31
MW-16	2	2	48	641	35.04	0.33
MW-16	2	4	47	760	35.06	0.35
MW-16	2	6	47	880	35.06	0.35
MW-16	2	9	15	1028	35.07	0.36
MW-16	2	10	54	1127	35.07	0.36
MW-16	2	12	59	1252	35.08	0.37
MW-16	2	14	54	1367	35.1	0.39
MW-16	2	17	1	1494	35.13	0.42
MW-16	2	19	23	1636	35.15	0.44
MW-16	2	21	48	1781	35.16	0.45
MW-16	3	0	44	1957	35.175	0.465
MW-16	3	3	48	2141	35.2	0.49
MW-16	3	6	52	2325	35.22	0.51
MW-16	3	9	57	2510	35.2	0.49
MW-16	3	12	59	2692	35.2	0.49
MW-16	3	15	26	2839	35.23	0.52
MW-16	3	16	57	2930	35.24	0.53
MW-16	3	16	58	2931	35.22	0.51
MW-16	3	17	1	2934	35.2	0.49
MW-16	3	17	2	2935	35.19	0.48
MW-16	3	17	4	2937	35.17	0.46
MW-16	3	17	6	2939	35.16	0.45

UPRR SACRAMENTO Pump Test Hand Data (November, 1991)

WELL	DATE	HOUR	MINUTE	ELAPSED TIME (min.)	DEPTH TO WATER (feet)	DRAWDOWN (feet)
MW-16	3	17	8	2941	35.15	0.44
MW-16	3	17	14	2947	35.13	0.42
MW-16	3	17	21	2954	35.11	0.4
MW-16	3	17	32	2965	35.08	0.37
MW-16	3	17	42	2975	35.05	0.34
MW-16	3	18	0	2993	35.05	0.34
MW-16	3	19	0	3053	35.02	0.31
MW-16	3	20	3	3116	34.99	0.28
MW-16	3	21	19	3192	34.98	0.27
MW-16	4	8	15	3848	34.88	0.17
MW-16	5	13	36	5609	34.73	0.02
MW-17	1	16	7	0	35.39	0
MW-17	1	16	36.75	29.75	35.4	0.01
MW-17	1	17	14	67	35.42	0.03
MW-17	1	18	8	121	35.42	0.03
MW-17	1	19	15	188	35.44	0.05
MW-17	1	20	59	292	35.45	0.06
MW-17	1	22	53	406	35.46	0.07
MW-17	2	0	51	524	35.47	0.08
MW-17	2	2	53	646	35.48	0.09
MW-17	2	4	52	765	35.49	0.1
MW-17	2	6	51	884	35.5	0.11
MW-17	2	9	23	1036	35.5	0.11
MW-17	2	10	57	1130	35.5	0.11
MW-17	2	13	4	1257	35.5	0.11
MW-17	2	15	0	1373	35.52	0.13
MW-17	2	17	7	1500	35.53	0.14
MW-17	2	19	25	1638	35.55	0.16
MW-17	2	21	54	1787	35.56	0.17
MW-17	3	0	49	1962	35.57	0.18
MW-17	3	3	53	2146	35.58	0.19
MW-17	3	6	57	2330	35.6	0.21
MW-17	3	10	2	2515	35.59	0.2
MW-17	3	13	7	2700	35.58	0.19
MW-17	3	15	32	2845	35.6	0.21
MW-17	3	17	10	2943	35.61	0.22
MW-17	3	17	17	2950	35.6	0.21
MW-17	3	17	36	2969	35.58	0.19
MW-17	3	17	49	2982	35.58	0.19
MW-17	3	19	5	3058	35.58	0.19
MW-17	3	20	6	3119	35.56	0.17
MW-17	3	21	27	3200	35.56	0.17
MW-17	4	8	19	3852	35.51	0.12
MW-17	5	13	39	5612	35.41	0.02
MW-18	1	16	7	0	35.57	0
MW-18	1	16	38.82	31.82	35.58	0.01
MW-18	1	17	15	68	35.6	0.03
MW-18	1	18	10	123	35.61	0.04
MW-18	1	19	12	185	35.62	0.05
MW-18	1	21	0	293	35.63	0.06
MW-18	1	22	54	407	35.63	0.06
MW-18	2	0	53	526	35.64	0.07
MW-18	2	2	54	647	35.65	0.08
MW-18	2	4	53	766	35.66	0.09
MW-18	2	4	53	766	35.66	0.09
MW-18	2	6	53	886	35.67	0.1
MW-18	2	9	25	1038	35.67	0.1
MW-18	2	10	58	1131	35.67	0.1
MW-18	2	13	2	1255	35.67	0.1
MW-18	2	14	58	1371	35.68	0.11
MW-18	2	17	5	1498	35.7	0.13
MW-18	2	19	30	1643	35.72	0.15
MW-18	2	21	52	1785	35.73	0.16
MW-18	3	0	51	1964	35.73	0.16
MW-18	3	3	55	2148	35.74	0.17
MW-18	3	6	58	2331	35.76	0.19
MW-18	3	10	0	2513	35.75	0.18
MW-18	3	13	4	2697	35.74	0.17
MW-18	3	15	30	2843	35.74	0.17
MW-18	3	17	11	2944	35.77	0.2
MW-18	3	17	19	2952	35.76	0.19
MW-18	3	17	38	2971	35.74	0.17
MW-18	3	17	50	2983	35.74	0.17

UPRR SACRAMENTO Pump Test Hand Data (November, 1991)

WELL	DATE	HOUR	MINUTE	ELAPSED TIME (min.)	DEPTH TO WATER (feet)	DRAWDOWN (feet)
MW-18	3	19	8	3061	35.74	0.17
MW-18	3	20	8	3121	35.73	0.16
MW-18	3	21	28	3201	35.72	0.15
MW-18	4	8	20	3853	35.68	0.11
MW-18	5	13	38	5611	35.59	0.02

MW-28	1	13	48	-139	33.1	0
MW-28	1	16	46	39	33.12	0.02
MW-28	1	17	19	72	33.12	0.02
MW-28	1	18	3	116	33.13	0.03
MW-28	1	19	20	193	33.15	0.05
MW-28	1	21	6	299	33.16	0.06
MW-28	1	22	58	411	33.16	0.06
MW-28	2	0	58	531	33.16	0.06
MW-28	2	3	0	653	33.18	0.08
MW-28	2	4	59	772	33.18	0.08
MW-28	2	6	59	892	33.18	0.08
MW-28	2	9	36	1049	33.18	0.08
MW-28	2	11	4	1137	33.18	0.08
MW-28	2	13	11	1264	33.17	0.07
MW-28	2	15	6	1379	33.19	0.09
MW-28	2	17	10	1503	33.19	0.09
MW-28	2	19	36	1649	33.21	0.11
MW-28	2	22	0	1793	33.22	0.12
MW-28	3	1	0	1973	33.23	0.13
MW-28	3	4	1	2154	33.23	0.13
MW-28	3	7	8	2341	33.24	0.14
MW-28	3	10	8	2521	33.22	0.12
MW-28	3	13	13	2706	33.21	0.11
MW-28	3	15	38	2851	33.23	0.13
MW-28	3	17	54	2987	33.21	0.11
MW-28	3	19	12	3065	33.22	0.12
MW-28	3	20	12	3125	33.21	0.11
MW-28	3	21	35	3208	33.22	0.12
MW-28	4	8	23	3856	33.19	0.09
MW-28	5	13	43	5616	33.12	0.02

MW-29	1	13	52	-135	32.94	0
MW-29	1	16	42.5	35.5	32.97	0.03
MW-29	1	17	23	76	32.98	0.04
MW-29	1	18	1	114	32.98	0.04
MW-29	1	19	22	195	32.99	0.05
MW-29	1	21	3	296	33	0.06
MW-29	1	22	56	409	33.01	0.07
MW-29	2	0	54	527	33.01	0.07
MW-29	2	2	58	651	33.02	0.08
MW-29	2	4	57	770	33.03	0.09
MW-29	2	6	57	890	33.04	0.1
MW-29	2	9	30	1043	33.04	0.1
MW-29	2	11	3	1136	33.04	0.1
MW-29	2	13	9	1262	33.04	0.1
MW-29	2	15	4	1377	33.06	0.12
MW-29	2	17	11	1504	33.08	0.14
MW-29	2	19	33	1646	33.09	0.15
MW-29	2	21	58	1791	33.1	0.16
MW-29	3	0	58	1971	33.1	0.16
MW-29	3	3	59	2152	33.12	0.18
MW-29	3	7	6	2339	33.14	0.2
MW-29	3	10	7	2520	33.11	0.17
MW-29	3	13	11	2704	33.12	0.18
MW-29	3	15	37	2850	33.13	0.19
MW-29	3	17	53	2986	33.13	0.19
MW-29	3	19	10	3063	33.12	0.18
MW-29	3	20	11	3124	33.12	0.18
MW-29	3	21	33	3206	33.12	0.18
MW-29	4	8	22	3855	33.06	0.12
MW-29	5	13	42	5615	32.97	0.03

MW-30	1	13	53	-134	32.9	0
MW-30	1	16	44	37	32.92	0.02
MW-30	1	17	24	77	32.93	0.03
MW-30	1	18	4	117	32.95	0.05
MW-30	1	19	25	198	32.96	0.06
MW-30	1	21	4	297	32.95	0.05
MW-30	1	22	59	412	32.96	0.06

UPRR SACRAMENTO Pump Test Hand Data (November, 1991)

WELL	DATE	HOUR	MINUTE	ELAPSED TIME (min.)	DEPTH TO WATER (feet)	DRAWDOWN (feet)
MW-30	2	0	57	530	32.98	0.08
MW-30	2	2	57	650	32.98	0.08
MW-30	2	4	56	769	32.99	0.09
MW-30	2	6	55	888	33	0.1
MW-30	2	9	25	1038	33	0.1
MW-30	2	11	0	1133	33	0.1
MW-30	2	13	7	1260	33.01	0.11
MW-30	2	15	2	1375	33.02	0.12
MW-30	2	17	9	1502	33.03	0.13
MW-30	2	19	38	1651	33.05	0.15
MW-30	2	21	56	1789	33.06	0.16
MW-30	3	0	56	1969	33.06	0.16
MW-30	3	3	58	2151	33.075	0.175
MW-30	3	7	3	2336	33.09	0.19
MW-30	3	10	5	2518	33.08	0.18
MW-30	3	13	9	2702	33.08	0.18
MW-30	3	15	35	2848	33.09	0.19
MW-30	3	17	56	2989	33.07	0.17
MW-30	3	19	15	3068	33.06	0.16
MW-30	3	20	10	3123	33.06	0.16
MW-30	3	21	31	3204	33.05	0.15
MW-30	4	8	21	3854	33	0.1
MW-30	5	13	41	5614	32.92	0.02
MW-33	1	14	27	-100	32.25	0
MW-33	1	16	46.17	39.17	32.57	0.32
MW-33	1	17	54	107	32.4	0.15
MW-33	1	19	44	217	32.43	0.18
MW-33	1	20	50	283	32.44	0.19
MW-33	1	22	43	396	32.46	0.21
MW-33	2	0	42	515	32.48	0.23
MW-33	2	2	43	636	32.49	0.24
MW-33	2	4	42	755	32.51	0.26
MW-33	2	6	41	874	32.52	0.27
MW-33	2	9	0	1013	32.54	0.29
MW-33	2	10	50	1123	32.55	0.3
MW-33	2	12	53	1246	32.56	0.31
MW-33	2	14	47	1360	32.57	0.32
MW-33	2	16	59	1492	32.59	0.34
MW-33	2	19	17	1630	32.61	0.36
MW-33	2	21	41	1774	32.63	0.38
MW-33	3	0	38	1951	32.62	0.37
MW-33	3	3	43	2136	32.66	0.41
MW-33	3	6	45	2318	32.64	0.39
MW-33	3	9	50	2503	32.64	0.39
MW-33	3	12	56	2689	32.64	0.39
MW-33	3	15	21	2834	32.66	0.41
MW-33	3	16	47	2920	32.67	0.42
MW-33	3	17	0	2933	32.66	0.41
MW-33	3	17	2.12	2935.12	32.65	0.4
MW-33	3	17	7.12	2940.12	32.63	0.38
MW-33	3	17	10.83	2943.83	32.62	0.37
MW-33	3	17	21.67	2954.67	32.6	0.35
MW-33	3	17	25.5	2958.5	32.59	0.34
MW-33	3	18	0	2993	32.56	0.31
MW-33	3	18	55	3048	32.53	0.28
MW-33	3	20	0	3113	32.49	0.24
MW-33	3	21	16	3189	32.47	0.22
MW-33	4	8	11	3844	32.4	0.15
MW-33	5	13	29	5602	32.29	0.04
MW-41	1	14	12	0	34.8	0
MW-41	1	16	13	6	34.81	0.01
MW-41	1	16	14.78	7.78	34.81	0.01
MW-41	1	16	16.25	9.25	34.82	0.02
MW-41	1	16	17.42	10.42	34.82	0.02
MW-41	1	16	18.42	11.42	34.82	0.02
MW-41	1	16	19.75	12.75	34.82	0.02
MW-41	1	16	21	14	34.83	0.03
MW-41	1	16	22.42	15.42	34.82	0.02
MW-41	1	16	23.58	16.58	34.83	0.03
MW-41	1	16	25.5	18.5	34.83	0.03
MW-41	1	16	26.92	19.92	34.83	0.03
MW-41	1	16	28.83	21.83	34.84	0.04
MW-41	1	16	30.5	23.5	34.84	0.04

UPRR SACRAMENTO Pump Test Hand Data (November, 1991)

WELL	DATE	HOUR	MINUTE	ELAPSED TIME (min.)	DEPTH TO WATER (feet)	DRAWDOWN (feet)
MW-41	1	16	31.42	24.42	34.84	0.04
MW-41	1	16	32.67	25.67	34.84	0.04
MW-41	1	16	34.17	27.17	34.84	0.04
MW-41	1	16	35.42	28.42	34.84	0.04
MW-41	1	16	37.42	30.42	34.845	0.045
MW-41	1	16	42.75	35.75	34.855	0.055
MW-41	1	16	48.33	41.33	34.86	0.06
MW-41	1	16	53	46	34.86	0.06
MW-41	1	16	59.42	52.42	34.865	0.065
MW-41	1	17	4.33	57.33	34.865	0.065
MW-41	1	17	15	68	34.87	0.07
MW-41	1	17	26.17	79.17	34.88	0.08
MW-41	1	17	47	100	34.88	0.08
MW-41	1	19	35	208	34.91	0.11
MW-41	1	20	37	270	34.92	0.12
MW-41	1	22	36	389	34.92	0.12
MW-41	2	0	35	508	34.92	0.12
MW-41	2	2	35	628	34.94	0.14
MW-41	2	4	35	748	34.94	0.14
MW-41	2	6	35	868	34.95	0.15
MW-41	2	8	42	995	34.955	0.155
MW-41	2	10	43	1116	34.95	0.15
MW-41	2	12	45	1238	34.95	0.15
MW-41	2	14	38	1351	34.96	0.16
MW-41	2	16	52	1485	34.97	0.17
MW-41	2	19	6	1619	34.99	0.19
MW-41	2	21	34	1767	34.99	0.19
MW-41	3	0	30	1943	35	0.2
MW-41	3	3	32	2125	35.01	0.21
MW-41	3	6	36	2309	35.02	0.22
MW-41	3	9	42	2495	35.01	0.21
MW-41	3	12	47	2680	35	0.2
MW-41	3	15	14	2827	35.02	0.22
MW-41	3	16	46	2919	35.025	0.225
MW-41	3	16	58	2931	35.03	0.23
MW-41	3	17	0	2933	35.03	0.23
MW-41	3	17	2	2935	35.03	0.23
MW-41	3	17	4	2937	25.025	-9.775
MW-41	3	17	6	2939	35.02	0.22
MW-41	3	17	8	2941	35.015	0.215
MW-41	3	17	9	2942	35.01	0.21
MW-41	3	17	10	2943	35.01	0.21
MW-41	3	17	11	2944	35.01	0.21
MW-41	3	17	13	2946	35.01	0.21
MW-41	3	17	14	2947	35.01	0.21
MW-41	3	17	15	2948	35.01	0.21
MW-41	3	17	17	2950	35.005	0.205
MW-41	3	17	19	2952	35	0.2
MW-41	3	17	24	2957	34.995	0.195
MW-41	3	17	33	2966	34.99	0.19
MW-41	3	17	43	2976	34.98	0.18
MW-41	3	17	49	2982	34.975	0.175
MW-41	3	17	59	2992	34.97	0.17
MW-41	3	18	34	3027	34.96	0.16
MW-41	3	19	57	3110	34.96	0.16
MW-41	3	21	6	3179	34.94	0.14
MW-41	4	8	6	3839	34.91	0.11
MW-41	5	13	22	5595	34.82	0.02

Elapsed
 Time (s) Time (m) Analog#01 Analog#02 Analog#03 Analog#04 Analog#05 Analog#06 Analog#07 Analog#0
 MW-4 MW-15 MW-17 MW-18 MW-28 MW-30 MW-13 MW-29

Terra8 Data Collection Report

Firmware Version 6.1/86
 Number of Bytes in Data Dump 21468
 User Supplied Comment
 Time Header Block Loaded 11/13 13:41:28.80
 Time Data File Dumped 11/20 08:49:35.20
 Remaining Memory 44067
 Number of Logs 876
 Type of Data Memory Memory Board
 Logs/Timestamp 1
 Power was OK During Data Collection Period

Terra8 Channel Setup:
 Number of Declared Analog Channels = 8

Ch#	Description	Units	Delay	M	B
1	MW-4.....	ft.....	100	20.310	0.000
2	MW-15.....	FT.....	100	4.616	0.000
3	MW-17.....	ft.....	100	2.308	0.000
4	MW-18.....	ft.....	100	2.308	0.000
5	MW-28.....	ft.....	100	0.462	0.000
6	MW-30.....	ft.....	100	4.616	0.000
7	MW-13.....	ft.....	100	6.924	0.000
8	MW-29.....	ft.....	100	2.308	0.000

Terra8 Channel Setup:

Number of Declared Digital Channels = 0

Ch#	Description	Units	Delay	M	B

*Initial Scan at 11 13 13 41 26 30
 *Next Scan at 11 13 13 41 26 30

Time (s)	Elapsed Time (m)	Analog#01 MW-4	Analog#02 MW-15	Analog#03 MW-17	Analog#04 MW-18	Analog#05 MW-28	Analog#06 MW-30	Analog#07 MW-13	Analog#0 MW-29
0		0	7.963	5.308	10.167	1.929	13.756	5.851	7.432
10.6		0	7.963	5.308	10.178	1.934	13.617	5.782	7.409
20.6		0	7.963	5.32	10.167	1.941	13.594	5.747	7.386
30.6		0	7.963	5.32	10.178	1.939	13.594	5.747	7.397
40.6		0	7.963	5.32	10.167	1.939	13.571	5.747	7.374
8703.6	0.00	17.974	7.87	6.278	10.132	1.893	13.363	5.366	7.247
8713.6	0.17	15.639	7.87	6.278	10.144	1.899	13.271	5.297	7.213
8723.6	0.33	14.115	7.87	6.278	10.144	1.897	13.271	5.228	7.213
8733.6	0.50	12.998	7.87	6.278	10.144	1.897	13.248	5.228	7.201
8743.6	0.67	12.694	7.87	6.278	10.144	1.895	13.248	5.228	7.201
8753.6	0.83	12.491	7.87	6.278	10.144	1.899	13.248	5.228	7.201

Time (s)	Elapsed Time (m)	Analog#01	Analog#02	Analog#03	Analog#04	Analog#05	Analog#06	Analog#07	Analog#0
		MW-4	MW-15	MW-17	MW-18	MW-28	MW-30	MW-13	MW-29
8763.6	1.00	12.288	7.87	6.266	10.144	1.897	13.248	5.228	7.213
8773.6	1.17	12.186	7.87	6.266	10.144	1.897	13.248	5.228	7.201
8783.6	1.33	11.983	7.87	6.278	10.144	1.897	13.248	5.193	7.213
8793.6	1.50	11.78	7.87	6.278	10.144	1.895	13.248	5.193	7.213
8803.6	1.67	11.78	7.87	6.278	10.132	1.895	13.271	5.193	7.213
8813.6	1.83	11.78	7.87	6.266	10.132	1.89	13.248	5.193	7.213
8823.6	2.00	11.577	7.87	6.266	10.132	1.89	13.271	5.158	7.213
8833.6	2.17	11.678	7.87	6.266	10.132	1.89	13.271	5.193	7.213
8843.6	2.33	11.678	7.87	6.266	10.132	1.893	13.271	5.158	7.213
8853.6	2.50	11.475	7.87	6.266	10.132	1.893	13.271	5.158	7.213
8863.6	2.67	11.374	7.87	6.266	10.132	1.893	13.271	5.158	7.224
8873.6	2.83	11.374	7.87	6.266	10.132	1.886	13.271	5.158	7.213
8883.6	3.00	11.272	7.87	6.266	10.132	1.895	13.271	5.124	7.224
8893.6	3.17	10.967	7.87	6.266	10.132	1.893	13.271	5.124	7.213
8903.6	3.33	10.967	7.87	6.266	10.132	1.893	13.271	5.124	7.213
8913.6	3.50	10.764	7.87	6.266	10.132	1.89	13.294	5.124	7.213
8923.6	3.67	10.866	7.87	6.266	10.132	1.89	13.294	5.124	7.213
8933.6	3.83	10.967	7.87	6.266	10.132	1.89	13.271	5.089	7.224
8943.6	4.00	10.967	7.87	6.266	10.132	1.888	13.294	5.089	7.213
8953.6	4.17	11.069	7.847	6.266	10.132	1.888	13.294	5.089	7.224
8963.6	4.33	11.475	7.87	6.266	10.132	1.89	13.317	5.124	7.224
8973.6	4.50	11.678	7.87	6.255	10.132	1.89	13.294	5.089	7.224
8983.6	4.67	11.78	7.847	6.266	10.132	1.89	13.317	5.089	7.224
8993.6	4.83	11.678	7.87	6.255	10.132	1.89	13.294	5.089	7.224
9003.6	5.00	11.678	7.847	6.255	10.132	1.89	13.317	5.089	7.224
9013.6	5.17	11.374	7.847	6.255	10.121	1.89	13.317	5.089	7.224
9023.6	5.33	11.678	7.847	6.266	10.132	1.888	13.317	5.089	7.236
9033.6	5.50	11.577	7.847	6.255	10.132	1.89	13.317	5.089	7.236
9043.6	5.67	11.577	7.847	6.266	10.132	1.893	13.317	5.089	7.224
9053.6	5.83	11.475	7.847	6.255	10.132	1.893	13.34	5.089	7.236
9063.6	6.00	11.678	7.847	6.255	10.132	1.893	13.317	5.089	7.236
9073.6	6.17	11.272	7.847	6.255	10.132	1.895	13.317	5.089	7.236
9083.6	6.33	11.475	7.847	6.266	10.121	1.89	13.34	5.089	7.236
9093.6	6.50	11.272	7.847	6.255	10.132	1.893	13.317	5.089	7.236
9103.6	6.67	11.272	7.847	6.266	10.132	1.89	13.34	5.089	7.236
9113.6	6.83	11.069	7.847	6.255	10.132	1.895	13.34	5.089	7.236
9123.6	7.00	11.069	7.847	6.255	10.132	1.895	13.34	5.089	7.247
9133.6	7.17	10.967	7.847	6.266	10.132	1.89	13.363	5.089	7.247
9143.6	7.33	10.967	7.847	6.266	10.132	1.895	13.363	5.089	7.236
9153.6	7.50	10.866	7.847	6.255	10.132	1.895	13.363	5.089	7.236
9163.6	7.67	11.069	7.847	6.266	10.132	1.893	13.34	5.055	7.236
9173.6	7.83	10.967	7.847	6.255	10.132	1.893	13.34	5.089	7.236
9183.6	8.00	10.866	7.847	6.255	10.132	1.893	13.34	5.089	7.236
9193.6	8.17	10.866	7.847	6.266	10.132	1.895	13.363	5.055	7.236
9203.6	8.33	10.764	7.847	6.255	10.132	1.895	13.34	5.055	7.236
9213.6	8.50	10.561	7.847	6.255	10.132	1.895	13.34	5.055	7.236
9223.6	8.67	10.561	7.847	6.266	10.132	1.893	13.34	5.055	7.236
9233.6	8.83	10.561	7.847	6.255	10.132	1.893	13.34	5.02	7.247
9243.6	9.00	10.358	7.847	6.255	10.132	1.893	13.34	5.055	7.236
9253.6	9.17	10.358	7.847	6.266	10.132	1.89	13.363	5.055	7.236
9263.6	9.33	10.358	7.847	6.255	10.132	1.893	13.34	5.055	7.236
9273.6	9.50	10.257	7.847	6.255	10.132	1.89	13.363	5.055	7.236
9283.6	9.67	10.358	7.847	6.255	10.132	1.893	13.34	5.055	7.236

Time (s)	Elapsed Time (m)	Analogue#01	Analogue#02	Analogue#03	Analogue#04	Analogue#05	Analogue#06	Analogue#07	Analogue#0
		MW-4	MW-15	MW-17	MW-18	MW-28	MW-30	MW-13	MW-29
9293.6	9.83	10.358	7.847	6.255	10.132	1.893	13.363	5.055	7.236
9303.6	10.00	10.46	7.847	6.255	10.132	1.893	13.34	5.055	7.236
9333.6	10.50	10.663	7.847	6.255	10.132	1.893	13.271	4.916	7.224
9363.6	11.00	10.764	7.847	6.255	10.132	1.895	13.248	4.916	7.201
9393.6	11.50	10.967	7.847	6.255	10.132	1.893	13.248	4.881	7.201
9423.6	12.00	11.374	7.847	6.255	10.132	1.895	13.225	4.881	7.189
9453.6	12.50	11.475	7.847	6.255	10.132	1.893	13.225	4.881	7.201
9483.6	13.00	11.374	7.824	6.255	10.132	1.895	13.225	4.847	7.201
9513.6	13.50	11.475	7.824	6.266	10.132	1.893	13.225	4.847	7.189
9543.6	14.00	11.577	7.847	6.255	10.132	1.888	13.248	4.847	7.201
9573.6	14.50	11.475	7.824	6.255	10.132	1.895	13.225	4.847	7.201
9603.6	15.00	11.678	7.824	6.255	10.132	1.895	13.225	4.812	7.201
9633.6	15.50	11.475	7.824	6.255	10.132	1.895	13.225	4.847	7.201
9663.6	16.00	11.577	7.824	6.255	10.132	1.895	13.225	4.812	7.189
9693.6	16.50	11.577	7.824	6.255	10.132	1.895	13.225	4.812	7.189
9723.6	17.00	11.577	7.824	6.255	10.132	1.893	13.225	4.812	7.189
9753.6	17.50	11.577	7.824	6.255	10.132	1.895	13.248	4.812	7.189
9783.6	18.00	11.577	7.824	6.255	10.132	1.89	13.248	4.812	7.201
9813.6	18.50	11.78	7.824	6.255	10.132	1.895	13.248	4.778	7.189
9843.6	19.00	11.678	7.824	6.255	10.132	1.893	13.225	4.812	7.201
9873.6	19.50	11.678	7.824	6.255	10.132	1.893	13.225	4.812	7.201
9903.6	20.00	11.577	7.824	6.255	10.132	1.893	13.248	4.778	7.201
9933.6	20.50	11.577	7.824	6.255	10.132	1.893	13.248	4.812	7.189
9963.6	21.00	11.678	7.824	6.255	10.132	1.893	13.248	4.812	7.201
9993.6	21.50	11.78	7.824	6.255	10.132	1.89	13.271	4.778	7.201
10023.6	22.00	11.678	7.824	6.243	10.132	1.89	13.248	4.778	7.201
10053.6	22.50	11.881	7.824	6.255	10.132	1.888	13.248	4.778	7.201
10083.6	23.00	12.084	7.824	6.255	10.132	1.888	13.248	4.778	7.201
10113.6	23.50	12.186	7.824	6.255	10.132	1.89	13.248	4.778	7.201
10143.6	24.00	12.084	7.824	6.243	10.132	1.888	13.248	4.778	7.201
10173.6	24.50	12.084	7.824	6.255	10.132	1.888	13.248	4.778	7.201
10203.6	25.00	11.881	7.824	6.255	10.132	1.89	13.248	4.778	7.201
10233.6	25.50	11.78	7.824	6.243	10.132	1.893	13.248	4.778	7.201
10263.6	26.00	11.881	7.824	6.243	10.144	1.893	13.248	4.778	7.201
10293.6	26.50	12.186	7.824	6.243	10.144	1.893	13.248	4.778	7.201
10323.6	27.00	11.881	7.824	6.243	10.144	1.89	13.248	4.778	7.201
10353.6	27.50	11.983	7.824	6.243	10.132	1.89	13.271	4.743	7.201
10383.6	28.00	12.084	7.801	6.243	10.144	1.893	13.271	4.778	7.201
10413.6	28.50	11.78	7.801	6.243	10.144	1.89	13.271	4.778	7.213
10443.6	29.00	11.78	7.801	6.243	10.144	1.89	13.248	4.778	7.201
10473.6	29.50	11.881	7.801	6.243	10.144	1.89	13.248	4.778	7.201
10503.6	30.00	12.186	7.801	6.243	10.144	1.893	13.248	4.743	7.201
10533.6	30.50	11.881	7.801	6.243	10.144	1.893	13.248	4.743	7.189
10563.6	31.00	11.78	7.801	6.243	10.132	1.888	13.271	4.743	7.201
10593.6	31.50	12.084	7.801	6.243	10.144	1.89	13.248	4.743	7.189
10623.6	32.00	12.084	7.801	6.243	10.132	1.89	13.271	4.743	7.189
10653.6	32.50	11.678	7.801	6.243	10.144	1.888	13.248	4.743	7.189
10683.6	33.00	11.678	7.801	6.232	10.144	1.888	13.271	4.743	7.201
10713.6	33.50	12.186	7.801	6.243	10.144	1.886	13.271	4.743	7.189
10743.6	34.00	11.983	7.801	6.232	10.132	1.888	13.248	4.708	7.201
10773.6	34.50	11.678	7.801	6.232	10.132	1.886	13.248	4.708	7.201
10803.6	35.00	12.084	7.801	6.232	10.132	1.888	13.271	4.708	7.189
10833.6	35.50	11.78	7.801	6.232	10.132	1.883	13.248	4.708	7.201

Time (s)	Elapsed Time (m)	Analogs	Analogs	Analogs	Analogs	Analogs	Analogs	Analogs	Analogs
		MW-4	MW-15	MW-17	MW-18	MW-28	MW-30	MW-13	MW-29
10863.6	36.00	12.288	7.801	6.232	10.132	1.886	13.248	4.708	7.201
10893.6	36.50	11.78	7.801	6.232	10.132	1.883	13.271	4.708	7.201
10923.6	37.00	11.881	7.801	6.232	10.132	1.883	13.271	4.708	7.201
10953.6	37.50	12.084	7.801	6.232	10.132	1.883	13.271	4.708	7.189
10983.6	38.00	11.78	7.801	6.232	10.132	1.883	13.248	4.708	7.189
11013.6	38.50	12.084	7.801	6.22	10.132	1.883	13.248	4.708	7.189
11043.6	39.00	11.983	7.801	6.232	10.132	1.883	13.271	4.674	7.201
11073.6	39.50	11.881	7.801	6.232	10.132	1.886	13.271	4.708	7.201
11103.6	40.00	11.983	7.801	6.232	10.132	1.881	13.248	4.708	7.201
11133.6	40.50	11.881	7.801	6.22	10.132	1.886	13.271	4.708	7.201
11163.6	41.00	11.78	7.801	6.232	10.132	1.886	13.271	4.674	7.201
11193.6	41.50	11.678	7.801	6.22	10.132	1.883	13.271	4.674	7.201
11223.6	42.00	12.186	7.801	6.22	10.132	1.881	13.248	4.674	7.189
11253.6	42.50	12.084	7.778	6.22	10.132	1.881	13.248	4.708	7.201
11283.6	43.00	11.78	7.801	6.22	10.132	1.881	13.248	4.674	7.201
11313.6	43.50	11.678	7.778	6.22	10.132	1.881	13.271	4.674	7.201
11343.6	44.00	11.881	7.778	6.22	10.132	1.881	13.271	4.674	7.189
11373.6	44.50	11.881	7.778	6.22	10.132	1.879	13.248	4.674	7.189
11403.6	45.00	12.288	7.778	6.22	10.132	1.879	13.271	4.674	7.201
11433.6	45.50	12.084	7.801	6.22	10.132	1.879	13.271	4.708	7.201
11463.6	46.00	11.78	7.778	6.22	10.132	1.876	13.271	4.674	7.189
11493.6	46.50	11.78	7.778	6.22	10.132	1.879	13.271	4.674	7.201
11523.6	47.00	11.881	7.778	6.22	10.121	1.879	13.271	4.674	7.189
11553.6	47.50	12.186	7.778	6.22	10.121	1.876	13.271	4.674	7.201
11583.6	48.00	11.78	7.778	6.22	10.132	1.879	13.271	4.674	7.201
11613.6	48.50	12.084	7.778	6.22	10.132	1.876	13.271	4.674	7.201
11643.6	49.00	11.881	7.778	6.22	10.132	1.876	13.271	4.674	7.201
11673.6	49.50	11.78	7.778	6.209	10.132	1.876	13.271	4.674	7.201
11703.6	50.00	11.983	7.778	6.22	10.132	1.874	13.271	4.674	7.201
11733.6	50.50	11.78	7.778	6.209	10.132	1.874	13.271	4.674	7.201
11763.6	51.00	12.186	7.778	6.22	10.132	1.874	13.271	4.674	7.189
11793.6	51.50	11.983	7.778	6.22	10.132	1.872	13.271	4.674	7.201
11823.6	52.00	12.084	7.778	6.22	10.132	1.074	13.271	4.674	7.201
11853.6	52.50	12.084	7.778	6.22	10.121	1.874	13.271	4.674	7.201
11883.6	53.00	11.678	7.778	6.209	10.121	1.874	13.271	4.674	7.201
11913.6	53.50	11.983	7.778	6.22	10.121	1.872	13.271	4.674	7.201
11943.6	54.00	11.577	7.778	6.22	10.121	1.874	13.271	4.674	7.201
11973.6	54.50	11.78	7.778	6.22	10.121	1.876	13.294	4.674	7.201
12003.6	55.00	11.374	7.778	6.22	10.121	1.879	13.271	4.674	7.201
12033.6	55.50	11.678	7.778	6.22	10.121	1.872	13.271	4.639	7.201
12063.6	56.00	11.78	7.778	6.209	10.121	1.874	13.271	4.674	7.201
12093.6	56.50	11.78	7.778	6.209	10.121	1.876	13.271	4.639	7.201
12123.6	57.00	11.678	7.778	6.22	10.121	1.874	13.271	4.674	7.189
12153.6	57.50	11.272	7.778	6.22	10.109	1.872	13.271	4.674	7.201
12183.6	58.00	11.475	7.778	6.22	10.121	1.874	13.271	4.639	7.201
12213.6	58.50	11.78	7.778	6.209	10.109	1.872	13.271	4.674	7.201
12243.6	59.00	11.475	7.778	6.209	10.121	1.876	13.294	4.674	7.201
12273.6	59.50	11.374	7.778	6.22	10.121	1.876	13.294	4.674	7.213
12303.6	60.50	11.678	7.778	6.22	10.109	1.876	13.248	4.604	7.189
12333.6	61.50	11.374	7.778	6.22	10.121	1.876	13.248	4.639	7.189
12453.6	62.50	11.475	7.778	6.209	10.109	1.876	13.225	4.604	7.178
12513.6	63.50	11.678	7.778	6.209	10.121	1.879	13.248	4.604	7.178
12573.6	64.50	11.78	7.778	6.209	10.121	1.886	13.225	4.604	7.189

Time (s)	Elapsed Time (m)	Analog#01	Analog#02	Analog#03	Analog#04	Analog#05	Analog#06	Analog#07	Analog#0
		MW-4	MW-15	MW-17	MW-18	MW-28	MW-30	MW-13	MW-29
12633.6	65.50	11.881	7.778	6.209	10.121	1.883	13.248	4.604	7.178
12693.6	66.50	11.678	7.778	6.209	10.121	1.879	13.248	4.604	7.178
12753.6	67.50	11.78	7.778	6.209	10.121	1.881	13.248	4.604	7.178
12813.6	68.50	11.475	7.778	6.209	10.121	1.879	13.248	4.604	7.189
12873.6	69.50	11.475	7.778	6.209	10.121	1.876	13.248	4.604	7.178
12933.6	70.50	11.678	7.778	6.209	10.121	1.876	13.248	4.604	7.178
12993.6	71.50	11.78	7.778	6.209	10.121	1.879	13.271	4.604	7.189
13053.6	72.50	11.678	7.778	6.209	10.109	1.876	13.271	4.604	7.178
13113.6	73.50	11.475	7.778	6.209	10.121	1.876	13.248	4.604	7.178
13173.6	74.50	11.374	7.778	6.209	10.121	1.874	13.248	4.57	7.189
13233.6	75.50	11.475	7.778	6.209	10.121	1.874	13.248	4.57	7.189
13293.6	76.50	11.678	7.778	6.209	10.121	1.876	13.248	4.604	7.189
13353.6	77.50	11.678	7.778	6.209	10.121	1.874	13.271	4.57	7.189
13413.6	78.50	11.881	7.778	6.209	10.121	1.874	13.248	4.604	7.189
13473.6	79.50	11.374	7.778	6.209	10.121	1.874	13.271	4.604	7.189
13533.6	80.50	11.272	7.778	6.209	10.121	1.869	13.248	4.604	7.189
13593.6	81.50	11.475	7.778	6.209	10.121	1.867	13.248	4.604	7.189
13653.6	82.50	11.78	7.778	6.209	10.121	1.869	13.271	4.639	7.201
13713.6	83.50	11.78	7.778	6.209	10.121	1.865	13.271	4.604	7.189
13773.6	84.50	11.475	7.778	6.197	10.121	1.867	13.271	4.604	7.189
13833.6	85.50	11.577	7.778	6.209	10.121	1.867	13.271	4.604	7.201
13893.6	86.50	11.881	7.778	6.197	10.121	1.867	13.271	4.604	7.189
13953.6	87.50	11.577	7.778	6.197	10.121	1.865	13.271	4.639	7.189
14013.6	88.50	11.475	7.778	6.197	10.121	1.869	13.271	4.604	7.201
14073.6	89.50	11.475	7.778	6.197	10.121	1.863	13.271	4.604	7.201
14133.6	90.50	11.78	7.778	6.197	10.109	1.865	13.271	4.639	7.189
14193.6	91.50	11.475	7.778	6.197	10.109	1.865	13.294	4.604	7.189
14253.6	92.50	11.78	7.778	6.197	10.121	1.863	13.294	4.639	7.201
14313.6	93.50	11.78	7.778	6.197	10.121	1.863	13.294	4.639	7.201
14373.6	94.50	11.577	7.778	6.197	10.121	1.863	13.294	4.639	7.201
14433.6	95.50	11.881	7.778	6.197	10.121	1.865	13.294	4.604	7.201
14493.6	96.50	12.084	7.778	6.197	10.109	1.86	13.294	4.639	7.201
14553.6	97.50	12.084	7.778	6.185	10.121	1.863	13.317	4.639	7.189
14613.6	98.50	11.983	7.778	6.197	10.121	1.86	13.294	4.639	7.201
14673.6	99.50	12.084	7.778	6.185	10.109	1.86	13.317	4.639	7.213
14733.6	100.50	11.881	7.778	6.197	10.121	1.863	13.317	4.639	7.201
14793.6	101.50	11.78	7.778	6.185	10.109	1.86	13.294	4.639	7.201
14853.6	102.50	11.78	7.778	6.185	10.109	1.858	13.317	4.639	7.201
14913.6	103.50	11.78	7.778	6.185	10.121	1.863	13.317	4.639	7.213
14973.6	104.50	11.881	7.778	6.185	10.109	1.858	13.317	4.639	7.201
15033.6	105.50	11.78	7.778	6.185	10.109	1.86	13.294	4.674	7.213
15093.6	106.50	11.881	7.778	6.185	10.109	1.86	13.317	4.639	7.201
15153.6	107.50	11.881	7.778	6.185	10.121	1.86	13.317	4.674	7.201
15213.6	108.50	11.881	7.778	6.185	10.121	1.86	13.317	4.674	7.213
15273.6	109.50	11.678	7.778	6.185	10.121	1.858	13.317	4.639	7.213
15333.6	110.50	11.78	7.778	6.185	10.121	1.86	13.317	4.674	7.213
15393.6	111.50	11.78	7.778	6.185	10.121	1.858	13.34	4.674	7.213
15453.6	112.50	12.186	7.778	6.185	10.121	1.858	13.34	4.674	7.213
15513.6	113.50	12.084	7.778	6.185	10.121	1.056	13.317	4.674	7.213
15573.6	114.50	12.084	7.778	6.185	10.121	1.856	13.317	4.674	7.213
15633.6	115.50	11.881	7.778	6.185	10.121	1.856	13.34	4.674	7.224
15693.6	116.50	11.881	7.778	6.185	10.121	1.851	13.34	4.708	7.224
15753.6	117.50	11.78	7.778	6.185	10.121	1.858	13.34	4.708	7.224

Time (s)	Elapsed Time (m)	Analogue#01	Analogue#02	Analogue#03	Analogue#04	Analogue#05	Analogue#06	Analogue#07	Analogue#0
		MW-4	MW-15	MW-17	MW-18	MW-28	MW-30	MW-13	MW-29
15813.6	118.50	12.084	7.778	6.185	10.121	1.858	13.363	4.674	7.224
16113.6	123.50	12.186	7.778	6.174	10.109	1.858	13.294	4.639	7.189
16413.6	128.50	11.881	7.778	6.185	10.121	1.856	13.294	4.639	7.189
16713.6	133.50	12.084	7.801	6.174	10.121	1.858	13.271	4.639	7.189
17013.6	138.50	12.084	7.801	6.174	10.121	1.853	13.271	4.604	7.189
17313.6	143.50	11.881	7.801	6.174	10.121	1.856	13.294	4.639	7.201
17613.6	148.50	12.084	7.801	6.162	10.121	1.856	13.294	4.639	7.189
17913.6	153.50	11.678	7.801	6.174	10.121	1.856	13.317	4.639	7.201
18213.6	158.50	11.577	7.801	6.162	10.121	1.851	13.317	4.639	7.213
18513.6	163.50	12.084	7.801	6.174	10.121	1.853	13.317	4.674	7.213
18813.6	168.50	12.084	7.801	6.174	10.132	1.853	13.34	4.674	7.224
19113.6	173.50	11.78	7.801	6.174	10.121	1.856	13.34	4.708	7.224
19413.6	178.50	11.983	7.801	6.162	10.121	1.853	13.363	4.708	7.224
19713.6	183.50	11.577	7.801	6.162	10.121	1.851	13.34	4.708	7.224
20013.6	188.50	12.186	7.801	6.151	10.121	1.853	13.363	4.708	7.236
20313.6	193.50	12.084	7.801	6.162	10.121	1.853	13.386	4.743	7.236
20613.6	198.50	12.084	7.801	6.162	10.121	1.851	13.363	4.743	7.236
20913.6	203.50	11.881	7.801	6.151	10.121	1.853	13.386	4.778	7.247
21213.6	208.50	11.374	7.801	6.151	10.121	1.856	13.409	4.778	7.247
21513.6	213.50	11.577	7.801	6.151	10.121	1.846	13.409	4.778	7.247
21813.6	218.50	11.881	7.801	6.139	10.121	1.851	13.409	4.778	7.247
22113.6	223.50	11.678	7.801	6.139	10.121	1.846	13.409	4.812	7.259
22413.6	228.50	11.881	7.801	6.139	10.121	1.849	13.409	4.812	7.259
22713.6	233.50	11.272	7.801	6.139	10.121	1.851	13.433	4.812	7.27
23013.6	238.50	11.272	7.801	6.139	10.121	1.846	13.433	4.812	7.259
23313.6	243.50	11.678	7.801	6.139	10.121	1.853	13.456	4.812	7.27
23613.6	248.50	11.78	7.801	6.139	10.132	1.851	13.456	4.812	7.282
23913.6	253.50	11.678	7.801	6.139	10.132	1.851	13.456	4.847	7.282
24213.6	258.50	11.577	7.801	6.139	10.132	1.853	13.456	4.847	7.27
24513.6	263.50	11.678	7.801	6.128	10.121	1.853	13.479	4.812	7.282
24813.6	268.50	11.272	7.801	6.128	10.121	1.849	13.479	4.847	7.282
25113.6	273.50	11.374	7.801	6.128	10.132	1.851	13.479	4.847	7.282
25413.6	278.50	11.678	7.801	6.128	10.121	1.851	13.479	4.881	7.282
25713.6	283.50	11.881	7.801	6.116	10.121	1.846	13.479	4.847	7.282
26013.6	288.50	11.577	7.801	6.116	10.132	1.846	13.479	4.881	7.293
26313.6	293.50	11.678	7.801	6.116	10.132	1.851	13.502	4.847	7.293
26613.6	298.50	11.374	7.801	6.116	10.132	1.851	13.502	4.881	7.293
26913.6	303.50	11.577	7.824	6.128	10.132	1.851	13.479	4.847	7.293
27213.6	308.50	11.475	7.824	6.116	10.132	1.856	13.456	4.812	7.282
27513.6	313.50	11.78	7.824	6.128	10.132	1.856	13.502	4.847	7.293
27813.6	318.50	11.678	7.824	6.116	10.132	1.858	13.479	4.881	7.282
28113.6	323.50	11.577	7.824	6.116	10.132	1.858	13.479	4.847	7.293
28413.6	328.50	11.78	7.824	6.116	10.132	1.858	13.479	4.847	7.293
28713.6	333.50	11.475	7.824	6.116	10.132	1.858	13.479	4.847	7.293
29013.6	338.50	11.78	7.824	6.105	10.121	1.858	13.502	4.847	7.282
29313.6	343.50	11.678	7.824	6.105	10.132	1.856	13.502	4.847	7.282
29613.6	348.50	11.881	7.824	6.105	10.132	1.853	13.502	4.847	7.293
29913.6	353.50	11.678	7.801	6.105	10.121	1.853	13.502	4.847	7.293
30213.6	358.50	11.577	7.824	6.105	10.132	1.856	13.502	4.847	7.305
30513.6	363.50	11.881	7.824	6.105	10.132	1.853	13.502	4.847	7.293
30813.6	368.50	11.983	7.824	6.105	10.132	1.86	13.502	4.881	7.305
31113.6	373.50	11.678	7.824	6.105	10.132	1.86	13.525	4.881	7.316
31413.6	378.50	11.881	7.824	6.105	10.144	1.858	13.502	4.881	7.305

Time (s)	Elapsed Time (m)	Analogue#01	Analogue#02	Analogue#03	Analogue#04	Analogue#05	Analogue#06	Analogue#07	Analogue#0
		MW-4	MW-15	MW-17	MW-18	MW-28	MW-30	MW-13	MW-29
31713.6	383.50	12.084	7.824	6.093	10.144	1.858	13.525	4.847	7.305
32013.6	388.50	11.78	7.824	6.093	10.144	1.86	13.525	4.847	7.305
32313.6	393.50	11.678	7.824	6.093	10.132	1.856	13.525	4.847	7.305
32613.6	398.50	12.084	7.824	6.093	10.132	1.858	13.525	4.881	7.305
32913.6	403.50	11.577	7.824	6.093	10.132	1.86	13.525	4.847	7.305
33213.6	408.50	11.881	7.824	6.093	10.132	1.856	13.525	4.881	7.305
33513.6	413.50	11.678	7.824	6.093	10.132	1.858	13.525	4.881	7.305
34413.6	428.50	11.881	7.824	6.082	10.144	1.858	13.502	4.847	7.305
35313.6	443.50	12.084	7.824	6.07	10.132	1.856	13.525	4.812	7.293
36213.6	458.50	12.288	7.824	6.07	10.132	1.858	13.525	4.812	7.293
37113.6	473.50	11.983	7.824	6.059	10.132	1.853	13.525	4.812	7.293
38013.6	488.50	12.084	7.824	6.059	10.132	1.853	13.548	4.847	7.305
38913.6	503.50	12.084	7.824	6.059	10.144	1.856	13.548	4.847	7.305
39813.6	518.50	11.983	7.824	6.047	10.144	1.858	13.548	4.847	7.316
40713.6	533.50	11.983	7.824	6.047	10.144	1.856	13.548	4.847	7.316
41613.6	548.50	12.389	7.824	6.047	10.144	1.853	13.548	4.847	7.316
42513.6	563.50	12.389	7.824	6.035	10.144	1.853	13.571	4.847	7.316
43413.6	578.50	12.084	7.824	6.024	10.132	1.849	13.571	4.881	7.316
44313.6	593.50	12.389	7.824	6.024	10.132	1.849	13.594	4.847	7.328
45213.6	608.50	12.186	7.824	6.012	10.144	1.849	13.594	4.881	7.316
46113.6	623.50	12.288	7.824	6.012	10.144	1.851	13.617	4.881	7.328
47013.6	638.50	12.389	7.824	6.001	10.144	1.851	13.617	4.881	7.328
47913.6	653.50	12.084	7.824	6.001	10.144	1.851	13.64	4.881	7.351
48813.6	668.50	12.186	7.824	6.012	10.144	1.853	13.663	4.916	7.351
49713.6	683.50	11.78	7.824	6.001	10.144	1.853	13.663	4.916	7.351
50613.6	698.50	11.983	7.824	5.989	10.144	1.853	13.663	4.916	7.351
51513.6	713.50	12.084	7.824	5.989	10.144	1.849	13.663	4.916	7.351
52413.6	728.50	11.78	7.824	5.989	10.144	1.849	13.686	4.916	7.351
53313.6	743.50	12.084	7.824	5.978	10.132	1.842	13.686	4.916	7.339
54213.6	758.50	11.78	7.801	5.966	10.132	1.846	13.663	4.881	7.351
55113.6	773.50	12.186	7.824	5.978	10.144	1.846	13.686	4.916	7.351
56013.6	788.50	12.389	7.824	5.978	10.144	1.846	13.686	4.916	7.351
56913.6	803.50	12.288	7.824	5.966	10.132	1.842	13.686	4.916	7.351
57813.6	818.50	12.084	7.824	5.955	10.144	1.844	13.686	4.916	7.363
58713.6	833.50	12.084	7.824	5.955	10.132	1.844	13.686	4.951	7.363
59613.6	848.50	12.084	7.824	5.955	10.132	1.842	13.733	4.951	7.363
60513.6	863.50	12.491	7.824	5.943	10.132	1.844	13.71	4.951	7.363
61413.6	878.50	12.592	7.824	5.943	10.144	1.844	13.733	4.951	7.374
62313.6	893.50	12.897	7.801	5.92	10.132	1.839	13.71	4.951	7.363
63213.6	908.50	12.491	7.801	5.92	10.132	1.83	13.733	4.951	7.363
64113.6	923.50	12.491	7.801	5.908	10.132	1.828	13.733	4.951	7.363
65013.6	938.50	12.897	7.801	5.897	10.132	1.826	13.71	4.951	7.363
65913.6	953.50	12.897	7.801	5.885	10.132	1.83	13.71	4.951	7.363
66813.6	968.50	12.694	7.801	5.885	10.132	1.823	13.71	4.985	7.363
67713.6	983.50	12.491	7.778	5.885	10.132	1.83	13.686	4.951	7.351
68613.6	998.50	12.795	7.801	5.874	10.121	1.828	13.686	4.916	7.351
69513.6	1013.50	12.694	7.778	5.862	10.121	1.835	13.686	4.916	7.339
70413.6	1028.50	12.998	7.778	5.862	10.121	1.83	13.663	4.881	7.328
71313.6	1043.50	12.694	7.778	5.851	10.121	1.83	13.64	4.847	7.339
72213.6	1058.50	12.795	7.755	5.839	10.109	1.826	13.617	4.847	7.316
73113.6	1073.50	12.288	7.778	5.828	10.098	1.826	13.571	4.847	7.305
74013.6	1088.50	12.998	7.755	5.828	10.098	1.835	13.571	4.812	7.305
74913.6	1103.50	12.389	7.755	5.816	10.109	1.826	13.548	4.778	7.293

Time (s)	Elapsed Time (m)	Analogue#01	Analogue#02	Analogue#03	Analogue#04	Analogue#05	Analogue#06	Analogue#07	Analogue#0
		MW-4	MW-15	MW-17	MW-18	MW-28	MW-30	MW-13	MW-29
75813.6	1118.50	12.491	7.732	5.816	10.098	1.828	13.502	4.743	7.282
77071.5	1139.47	12.186	7.709	5.805	10.086	1.826	13.986	5.158	7.455
77971.6	1154.47	12.694	7.732	5.793	10.086	1.809	13.479	4.778	7.27
78871.6	1169.47	12.389	7.732	5.793	10.098	1.821	13.433	4.708	7.259
79771.6	1184.47	12.795	7.709	5.782	10.098	1.812	13.409	4.674	7.224
80671.6	1199.47	12.288	7.732	5.793	10.109	1.828	13.409	4.639	7.236
81571.6	1214.47	12.186	7.709	5.782	10.109	1.821	13.363	4.604	7.213
82471.6	1229.47	12.186	7.709	5.782	10.098	1.816	13.34	4.57	7.213
83371.6	1244.47	12.592	7.709	5.77	10.086	1.823	13.34	4.535	7.213
84271.6	1259.47	12.389	7.709	5.77	10.086	1.819	13.317	4.535	7.189
85171.6	1274.47	12.491	7.686	5.747	10.086	1.814	13.294	4.466	7.166
86071.6	1289.47	11.983	7.686	5.747	10.086	1.821	13.248	4.431	7.155
86971.6	1304.47	12.186	7.686	5.747	10.086	1.814	13.225	4.397	7.143
87871.6	1319.47	11.78	7.686	5.724	10.074	1.821	13.225	4.362	7.143
88771.6	1334.47	12.186	7.663	5.724	10.063	1.819	13.202	4.362	7.143
89671.6	1349.47	11.678	7.663	5.724	10.063	1.816	13.202	4.328	7.132
90571.6	1364.47	12.389	7.663	5.724	10.074	1.814	13.202	4.362	7.132
91471.6	1379.47	11.983	7.663	5.712	10.063	1.809	13.202	4.328	7.12
92371.6	1394.47	12.084	7.639	5.701	10.063	1.807	13.179	4.293	7.12
93271.6	1409.47	12.186	7.663	5.689	10.063	1.807	13.179	4.293	7.12
94171.6	1424.47	12.389	7.686	5.689	10.063	1.807	13.179	4.258	7.109
95071.6	1439.47	11.881	7.663	5.689	10.063	1.805	13.179	4.293	7.12
95971.6	1454.47	11.78	7.686	5.689	10.063	1.8	13.202	4.328	7.12
96871.6	1469.47	12.084	7.686	5.678	10.063	1.8	13.225	4.293	7.12
97771.6	1484.47	12.389	7.686	5.666	10.063	1.798	13.225	4.328	7.12
98671.6	1499.47	11.577	7.686	5.678	10.063	1.803	13.248	4.328	7.132
99571.6	1514.47	11.577	7.686	5.666	10.063	1.798	13.271	4.362	7.143
100471.6	1529.47	12.084	7.686	5.666	10.063	1.793	13.271	4.362	7.143
101371.6	1544.47	11.881	7.686	5.666	10.063	1.789	13.294	4.397	7.155
102271.6	1559.47	11.678	7.709	5.666	10.063	1.791	13.317	4.431	7.166
103171.6	1574.47	11.678	7.709	5.655	10.063	1.784	13.34	4.466	7.166
104071.6	1589.47	11.577	7.709	5.655	10.063	1.789	13.363	4.501	7.178
104971.6	1604.47	11.577	7.709	5.643	10.063	1.789	13.386	4.535	7.189
105871.6	1619.47	12.288	7.709	5.632	10.063	1.786	13.386	4.535	7.189
106771.6	1634.47	12.084	7.709	5.632	10.063	1.784	13.409	4.604	7.213
107671.6	1649.47	11.678	7.709	5.62	10.063	1.786	13.433	4.604	7.213
108571.6	1664.47	11.881	7.709	5.62	10.063	1.782	13.433	4.639	7.224
109471.6	1679.47	12.389	7.709	5.62	10.074	1.791	13.479	4.674	7.236
110371.6	1694.47	12.389	7.709	5.62	10.063	1.793	13.479	4.674	7.236
111271.6	1709.47	12.186	7.709	5.608	10.074	1.796	13.502	4.674	7.247
112171.6	1724.47	12.186	7.709	5.608	10.063	1.791	13.525	4.674	7.259
113071.6	1739.47	11.983	7.709	5.597	10.074	1.793	13.525	4.708	7.247
113971.6	1754.47	12.084	7.709	5.597	10.074	1.789	13.525	4.708	7.259
114871.6	1769.47	11.983	7.709	5.585	10.063	1.796	13.548	4.743	7.27
115771.6	1784.47	12.084	7.709	5.585	10.074	1.791	13.525	4.708	7.259
116671.6	1799.47	12.186	7.732	5.574	10.074	1.791	13.571	4.743	7.282
117571.6	1814.47	11.983	7.732	5.574	10.063	1.793	13.571	4.743	7.27
118471.6	1829.47	11.881	7.709	5.562	10.063	1.793	13.594	4.743	7.282
119371.6	1844.47	11.983	7.709	5.551	10.063	1.791	13.594	4.778	7.293
121171.6	1874.47	11.983	7.709	5.551	10.074	1.791	13.594	4.778	7.282
122971.6	1904.47	12.592	7.709	5.539	10.074	1.796	13.64	4.778	7.305
124771.6	1934.47	12.288	7.732	5.539	10.074	1.796	13.64	4.778	7.305
126571.6	1964.47	12.592	7.732	5.528	10.074	1.796	13.64	4.778	7.305

Time (s)	Elapsed Time (m)	Analog#01	Analog#02	Analog#03	Analog#04	Analog#05	Analog#06	Analog#07	Analog#0
		MW-4	MW-15	MW-17	MW-18	MW-28	MW-30	MW-13	MW-29
128371.6	1994.47	12.288	7.732	5.516	10.074	1.796	13.663	4.812	7.305
130171.6	2024.47	12.491	7.709	5.505	10.074	1.796	13.64	4.778	7.305
131971.6	2054.47	12.084	7.732	5.493	10.074	1.791	13.663	4.812	7.305
133771.6	2084.47	12.389	7.709	5.482	10.074	1.784	13.686	4.847	7.316
135571.6	2114.47	12.389	7.732	5.47	10.074	1.791	13.71	4.812	7.316
137371.6	2144.47	12.389	7.732	5.458	10.074	1.796	13.663	4.778	7.316
139171.6	2174.47	12.186	7.709	5.447	10.063	1.789	13.686	4.812	7.305
140971.6	2204.47	11.983	7.709	5.447	10.074	1.786	13.71	4.812	7.316
142771.6	2234.47	12.491	7.709	5.435	10.063	1.784	13.71	4.812	7.316
144571.6	2264.47	11.983	7.709	5.424	10.063	1.779	13.733	4.812	7.316
146371.6	2294.47	12.084	7.709	5.412	10.063	1.779	13.733	4.847	7.328
148171.6	2324.47	12.491	7.709	5.389	10.074	1.784	13.756	4.847	7.328
149971.6	2354.47	12.389	7.709	5.389	10.063	1.775	13.733	4.847	7.328
151771.6	2384.47	12.186	7.709	5.378	10.063	1.775	13.756	4.881	7.316
153571.6	2414.47	12.389	7.709	5.366	10.063	1.782	13.756	4.847	7.328
155371.6	2444.47	11.983	7.686	5.355	10.063	1.777	13.71	4.812	7.316
157171.6	2474.47	12.288	7.686	5.331	10.051	1.775	13.686	4.812	7.316
158971.6	2504.47	12.389	7.686	5.331	10.063	1.782	13.663	4.778	7.293
160771.6	2534.47	11.881	7.663	5.32	10.051	1.779	13.594	4.708	7.27
162571.6	2564.47	11.678	7.663	5.308	10.04	1.775	13.525	4.674	7.247
164371.6	2594.47	12.084	7.639	5.308	10.051	1.791	13.479	4.639	7.236
166171.6	2624.47	12.084	7.639	5.297	10.04	1.786	13.433	4.604	7.213
167971.6	2654.47	11.78	7.616	5.285	10.028	1.773	13.409	4.535	7.189
169771.6	2684.47	11.78	7.616	5.262	10.028	1.775	13.409	4.501	7.178
171571.6	2714.47	11.475	7.616	5.251	10.028	1.768	13.317	4.431	7.155
173371.6	2744.47	11.983	7.616	5.251	10.028	1.775	13.294	4.362	7.143
175171.6	2774.47	11.374	7.616	5.228	10.017	1.777	13.248	4.328	7.12
176971.6	2804.47	11.374	7.593	5.205	10.005	1.768	13.225	4.258	7.097
178771.6	2834.47	11.78	7.593	5.193	10.005	1.766	13.225	4.258	7.086
180571.6	2864.47	11.577	7.57	5.193	10.005	1.768	13.179	4.189	7.074
182371.6	2894.47	11.475	7.57	5.181	10.005	1.766	13.179	4.189	7.086
183861.6	2919.30	11.069	7.57	5.17	10.005	1.768	13.71	4.743	7.282
183872.6	2919.48	11.475	7.57	5.17	10.005	1.766	13.617	4.674	7.247
183882.6	2919.65	11.678	7.57	5.17	10.005	1.763	13.571	4.639	7.236
183892.6	2919.82	11.577	7.57	5.17	10.005	1.763	13.571	4.639	7.236
183902.6	2919.98	11.577	7.57	5.17	10.005	1.763	13.571	4.639	7.247
183912.6	2920.15	11.374	7.57	5.17	10.005	1.763	13.571	4.639	7.236
183922.6	2920.32	11.374	7.57	5.17	10.005	1.766	13.571	4.639	7.236
183932.6	2920.48	11.272	7.57	5.17	10.005	1.763	13.548	4.639	7.247
183942.6	2920.65	11.272	7.57	5.17	10.005	1.763	13.571	4.639	7.247
183952.6	2920.82	11.171	7.57	5.17	10.005	1.763	13.548	4.639	7.247
183962.6	2920.98	11.171	7.57	5.17	10.005	1.766	13.571	4.639	7.247
183972.6	2921.15	11.069	7.57	5.17	10.005	1.77	13.594	4.674	7.247
183982.6	2921.32	11.069	7.57	5.17	10.005	1.761	13.571	4.639	7.247
183992.6	2921.48	11.272	7.57	5.17	10.005	1.766	13.571	4.674	7.247
184002.6	2921.65	11.171	7.57	5.181	10.005	1.766	13.594	4.639	7.247
184012.6	2921.82	11.171	7.57	5.17	10.005	1.766	13.594	4.674	7.247
184022.6	2921.98	11.374	7.57	5.17	10.005	1.766	13.594	4.639	7.247
184032.6	2922.15	11.577	7.57	5.17	10.005	1.766	13.594	4.674	7.247
184042.6	2922.32	11.577	7.57	5.17	10.005	1.766	13.594	4.674	7.247
184052.6	2922.48	11.475	7.57	5.17	10.005	1.766	13.594	4.639	7.236
184062.6	2922.65	11.577	7.57	5.17	10.005	1.763	13.594	4.674	7.247
184072.6	2922.82	11.374	7.57	5.17	10.005	1.763	13.594	4.639	7.247

Time (s)	Elapsed Time (m)	Analogue#01	Analogue#02	Analogue#03	Analogue#04	Analogue#05	Analogue#06	Analogue#07	Analogue#0
		MW-4	MW-15	MW-17	MW-18	MW-28	MW-30	MW-13	MW-29
184082.6	2922.98	11.374	7.57	5.17	10.005	1.766	13.594	4.639	7.247
184092.6	2923.15	11.272	7.57	5.17	9.994	1.766	13.617	4.674	7.247
184102.6	2923.32	10.764	7.57	5.17	10.005	1.763	13.594	4.674	7.247
184112.6	2923.48	11.171	7.57	5.17	9.994	1.763	13.617	4.639	7.247
184122.6	2923.65	10.967	7.57	5.17	10.005	1.763	13.594	4.639	7.247
184132.6	2923.82	11.069	7.57	5.17	10.005	1.761	13.617	4.674	7.247
184142.6	2923.98	11.069	7.57	5.17	10.005	1.763	13.594	4.674	7.247
184152.6	2924.15	11.171	7.57	5.17	10.005	1.763	13.594	4.639	7.247
184162.6	2924.32	11.171	7.57	5.17	10.005	1.761	13.617	4.674	7.247
184172.6	2924.48	11.374	7.57	5.17	10.005	1.761	13.594	4.639	7.236
184182.6	2924.65	11.475	7.57	5.17	10.005	1.761	13.617	4.674	7.247
184192.6	2924.82	11.374	7.57	5.17	10.005	1.761	13.617	4.674	7.247
184202.6	2924.98	11.475	7.57	5.17	10.005	1.761	13.617	4.674	7.236
184212.6	2925.15	11.374	7.57	5.17	10.005	1.761	13.617	4.674	7.247
184222.6	2925.32	11.272	7.57	5.17	10.005	1.761	13.594	4.674	7.247
184232.6	2925.48	11.272	7.57	5.17	10.005	1.761	13.617	4.674	7.247
184242.6	2925.65	11.171	7.57	5.17	10.005	1.763	13.617	4.674	7.247
184252.6	2925.82	11.272	7.57	5.17	10.005	1.761	13.617	4.674	7.247
184262.6	2925.98	11.272	7.57	5.17	10.005	1.761	13.617	4.674	7.247
184272.6	2926.15	11.069	7.57	5.17	10.005	1.763	13.617	4.674	7.247
184282.6	2926.32	11.069	7.57	5.17	10.005	1.761	13.617	4.674	7.247
184292.6	2926.48	10.764	7.57	5.17	10.005	1.761	13.617	4.674	7.247
184302.6	2926.65	10.764	7.57	5.17	10.005	1.763	13.617	4.674	7.247
184312.6	2926.82	10.764	7.57	5.17	10.005	1.761	13.617	4.674	7.247
184322.6	2926.98	10.764	7.57	5.17	10.005	1.763	13.617	4.674	7.259
184332.6	2927.15	10.967	7.57	5.17	9.994	1.761	13.617	4.674	7.259
184342.6	2927.32	11.171	7.57	5.17	10.005	1.763	13.64	4.674	7.247
184352.6	2927.48	11.272	7.57	5.17	10.005	1.761	13.617	4.674	7.247
184362.6	2927.65	10.967	7.57	5.17	10.005	1.761	13.617	4.674	7.259
184372.6	2927.82	11.069	7.57	5.17	10.005	1.761	13.617	4.674	7.247
184382.6	2927.98	11.272	7.57	5.17	10.005	1.761	13.617	4.674	7.247
184392.6	2928.15	11.272	7.57	5.17	10.005	1.761	13.617	4.674	7.247
184402.6	2928.32	11.272	7.57	5.17	10.005	1.761	13.64	4.674	7.247
184412.6	2928.48	11.374	7.57	5.17	10.005	1.763	13.617	4.674	7.259
184422.6	2928.65	11.272	7.57	5.17	10.005	1.761	13.617	4.674	7.259
184432.6	2928.82	11.374	7.57	5.17	10.005	1.761	13.64	4.674	7.259
184442.6	2928.98	11.272	7.57	5.17	10.005	1.761	13.617	4.708	7.259
184452.6	2929.15	11.272	7.57	5.17	10.005	1.754	13.64	4.674	7.247
184462.6	2929.32	11.171	7.57	5.17	10.005	1.754	13.617	4.674	7.247
184492.6	2929.82	11.171	7.57	5.181	10.005	1.754	13.525	4.639	7.236
184546.7	2930.72	12.491	7.57	5.17	9.994	1.763	13.756	4.778	7.305
184557.6	2930.90	16.654	7.57	5.181	9.994	1.766	13.663	4.708	7.27
184567.6	2931.07	17.06	7.57	5.181	9.994	1.761	13.663	4.708	7.259
184577.6	2931.23	17.264	7.57	5.181	9.994	1.761	13.64	4.708	7.259
184587.6	2931.40	17.264	7.57	5.181	9.994	1.759	13.64	4.708	7.27
184597.6	2931.57	17.365	7.57	5.181	9.994	1.761	13.64	4.708	7.259
184607.6	2931.73	17.365	7.57	5.17	9.994	1.761	13.64	4.708	7.259
184617.6	2931.90	16.959	7.57	5.17	9.994	1.759	13.64	4.708	7.259
184627.6	2932.07	17.162	7.57	5.17	10.005	1.761	13.64	4.743	7.259
184637.6	2932.23	17.264	7.57	5.181	9.994	1.759	13.64	4.743	7.259
184647.6	2932.40	16.959	7.57	5.181	9.994	1.759	13.64	4.743	7.259
184657.6	2932.57	17.568	7.57	5.17	9.994	1.761	13.64	4.778	7.259
184667.6	2932.73	17.365	7.57	5.181	9.994	1.759	13.64	4.778	7.259

Time (s)	Elapsed Time (m)	Analog#								
		MW-4	MW-15	MW-17	MW-18	MW-28	MW-30	MW-13	MW-29	
184677.6	2932.90	17.568	7.593	5.17	9.994	1.761	13.64	4.778	7.259	
184687.6	2933.07	17.365	7.57	5.17	9.994	1.763	13.64	4.778	7.259	
184697.6	2933.23	17.771	7.57	5.17	9.994	1.763	13.64	4.778	7.259	
184707.6	2933.40	17.365	7.57	5.17	9.994	1.761	13.64	4.812	7.259	
184717.6	2933.57	17.06	7.57	5.17	9.994	1.759	13.64	4.812	7.259	
184727.6	2933.73	17.467	7.57	5.17	9.994	1.752	13.64	4.812	7.259	
184737.6	2933.90	17.365	7.57	5.17	9.994	1.759	13.64	4.847	7.259	
184747.6	2934.07	17.365	7.57	5.17	9.994	1.759	13.64	4.847	7.259	
184757.6	2934.23	17.365	7.57	5.17	9.994	1.759	13.64	4.847	7.27	
184767.6	2934.40	17.365	7.57	5.17	9.994	1.761	13.663	4.847	7.259	
184777.6	2934.57	17.06	7.593	5.181	10.005	1.761	13.64	4.847	7.27	
184787.6	2934.73	17.365	7.593	5.181	10.005	1.759	13.64	4.847	7.27	
184797.6	2934.90	17.06	7.593	5.181	10.005	1.763	13.64	4.881	7.259	
184807.6	2935.07	16.857	7.593	5.181	10.005	1.763	13.64	4.881	7.27	
184817.6	2935.23	17.365	7.593	5.17	9.994	1.763	13.64	4.881	7.27	
184827.6	2935.40	17.467	7.593	5.181	9.994	1.763	13.64	4.916	7.27	
184837.6	2935.57	17.365	7.593	5.17	10.005	1.763	13.663	4.916	7.27	
184847.6	2935.73	17.365	7.593	5.181	10.005	1.763	13.64	4.916	7.259	
184857.6	2935.90	17.467	7.593	5.17	10.005	1.763	13.663	4.916	7.27	
184867.6	2936.07	17.365	7.593	5.17	10.005	1.766	13.663	4.916	7.27	
184877.6	2936.23	17.568	7.593	5.17	10.005	1.768	13.663	4.916	7.27	
184887.6	2936.40	17.467	7.593	5.181	10.005	1.766	13.663	4.951	7.27	
184897.6	2936.57	17.568	7.593	5.181	10.005	1.766	13.64	4.951	7.27	
184907.6	2936.73	17.06	7.593	5.17	10.005	1.763	13.64	4.951	7.27	
184917.6	2936.90	17.67	7.593	5.181	10.005	1.766	13.64	4.951	7.27	
184927.6	2937.07	17.568	7.593	5.181	10.005	1.766	13.64	4.951	7.27	
184937.6	2937.23	17.467	7.593	5.181	10.005	1.766	13.64	4.951	7.27	
184947.6	2937.40	17.67	7.593	5.17	10.005	1.763	13.663	4.951	7.27	
184957.6	2937.57	17.06	7.593	5.181	9.994	1.768	13.663	4.951	7.259	
184967.6	2937.73	16.146	7.593	5.181	10.005	1.766	13.663	4.951	7.27	
184977.6	2937.90	16.553	7.593	5.181	10.005	1.766	13.663	4.985	7.27	
184987.6	2938.07	16.654	7.593	5.181	10.005	1.766	13.64	4.951	7.27	
184997.6	2938.23	16.959	7.593	5.17	9.994	1.768	13.663	4.985	7.27	
185007.6	2938.40	16.857	7.593	5.181	9.994	1.766	13.64	4.985	7.27	
185017.6	2938.57	16.654	7.593	5.181	10.005	1.763	13.663	4.985	7.27	
185027.6	2938.73	15.436	7.593	5.181	9.994	1.768	13.663	4.985	7.27	
185037.6	2938.90	16.451	7.616	5.17	10.005	1.766	13.663	4.985	7.27	
185047.6	2939.07	16.553	7.593	5.17	10.005	1.768	13.64	5.02	7.27	
185057.6	2939.23	16.451	7.616	5.181	10.005	1.766	13.663	5.02	7.27	
185067.6	2939.40	16.756	7.616	5.181	10.005	1.766	13.663	5.02	7.27	
185077.6	2939.57	16.553	7.616	5.17	10.005	1.766	13.663	5.02	7.27	
185087.6	2939.73	16.553	7.616	5.181	10.005	1.768	13.64	5.02	7.27	
185097.6	2939.90	16.959	7.616	5.181	10.005	1.768	13.663	5.02	7.27	
185107.6	2940.07	16.553	7.616	5.181	10.005	1.766	13.663	5.02	7.27	
185117.6	2940.23	16.451	7.616	5.181	10.005	1.766	13.663	5.02	7.27	
185127.6	2940.40	16.553	7.616	5.181	10.005	1.763	13.663	5.02	7.27	
185137.6	2940.57	17.162	7.616	5.181	10.005	1.766	13.663	5.055	7.27	
185147.6	2940.73	17.06	7.616	5.181	10.005	1.768	13.663	5.055	7.27	
185177.6	2941.23	17.568	7.616	5.181	10.005	1.766	13.594	5.02	7.247	
185207.6	2941.73	17.873	7.616	5.181	10.005	1.763	13.571	4.985	7.236	
185237.6	2942.23	17.771	7.616	5.181	10.005	1.761	13.548	5.02	7.236	
185267.6	2942.73	17.162	7.616	5.181	10.005	1.763	13.571	5.02	7.236	
185297.6	2943.23	18.076	7.639	5.181	10.005	1.766	13.548	5.02	7.236	

Time (s)	Elapsed Time (m)	Analog#01 Analog#02 Analog#03 Analog#04 Analog#05 Analog#06 Analog#07 Analog#0								
		MW-4	MW-15	MW-17	MW-18	MW-28	MW-30	MW-13	MW-29	
185327.6	2943.73	17.873	7.616	5.181	10.017	1.766	13.548	5.02	7.236	
185357.6	2944.23	18.177	7.616	5.181	10.005	1.768	13.548	5.02	7.236	
185387.6	2944.73	17.974	7.616	5.193	10.017	1.77	13.548	5.02	7.236	
185417.6	2945.23	17.974	7.639	5.193	10.017	1.768	13.548	5.055	7.236	
185447.6	2945.73	18.177	7.639	5.193	10.017	1.768	13.548	5.055	7.236	
185477.6	2946.23	17.974	7.639	5.181	10.005	1.768	13.548	5.055	7.236	
185507.6	2946.73	18.177	7.639	5.181	10.017	1.768	13.548	5.055	7.236	
185537.6	2947.23	17.974	7.639	5.181	10.005	1.768	13.548	5.089	7.236	
185567.6	2947.73	18.381	7.639	5.181	10.005	1.768	13.571	5.089	7.236	
185597.6	2948.23	18.177	7.639	5.181	10.005	1.77	13.571	5.089	7.236	
185627.6	2948.73	18.177	7.639	5.181	10.005	1.766	13.548	5.089	7.236	
185657.6	2949.23	18.279	7.639	5.181	10.005	1.77	13.571	5.089	7.236	
185687.6	2949.73	18.381	7.639	5.181	10.005	1.77	13.571	5.089	7.247	
185717.6	2950.23	18.482	7.639	5.181	10.005	1.77	13.594	5.089	7.236	
185747.6	2950.73	18.381	7.639	5.181	10.017	1.773	13.571	5.089	7.247	
185777.6	2951.23	18.381	7.639	5.193	10.017	1.773	13.571	5.124	7.247	
185807.6	2951.73	18.482	7.663	5.181	10.005	1.775	13.571	5.124	7.247	
185837.6	2952.23	18.381	7.663	5.181	10.005	1.773	13.594	5.124	7.247	
185867.6	2952.73	18.381	7.639	5.181	10.017	1.775	13.571	5.124	7.247	
185897.6	2953.23	18.279	7.663	5.193	10.017	1.775	13.571	5.158	7.247	
185927.6	2953.73	18.482	7.663	5.181	10.017	1.775	13.571	5.158	7.247	
185957.6	2954.23	18.482	7.663	5.181	10.017	1.777	13.594	5.124	7.247	
185987.6	2954.73	18.685	7.663	5.181	10.017	1.777	13.594	5.158	7.259	
186017.6	2955.23	18.584	7.663	5.181	10.017	1.775	13.594	5.158	7.247	
186047.6	2955.73	18.584	7.663	5.193	10.017	1.779	13.594	5.158	7.259	
186077.6	2956.23	18.482	7.663	5.181	10.017	1.777	13.594	5.158	7.259	
186107.6	2956.73	18.685	7.663	5.193	10.017	1.775	13.594	5.158	7.259	
186137.6	2957.23	18.584	7.663	5.193	10.017	1.775	13.594	5.193	7.247	
186167.6	2957.73	18.685	7.663	5.181	10.017	1.779	13.617	5.158	7.259	
186197.6	2958.23	18.482	7.663	5.193	10.028	1.777	13.617	5.193	7.259	
186227.6	2958.73	18.584	7.663	5.193	10.028	1.777	13.617	5.193	7.259	
186257.6	2959.23	18.787	7.663	5.193	10.028	1.777	13.594	5.193	7.259	
186287.6	2959.73	18.584	7.663	5.193	10.028	1.779	13.617	5.193	7.259	
186317.6	2960.23	18.482	7.686	5.193	10.028	1.782	13.617	5.193	7.259	
186347.6	2960.73	18.482	7.686	5.193	10.028	1.779	13.617	5.228	7.27	
186377.6	2961.23	18.584	7.686	5.193	10.028	1.782	13.64	5.228	7.27	
186407.6	2961.73	18.381	7.686	5.193	10.028	1.782	13.594	5.228	7.27	
186437.6	2962.23	18.482	7.686	5.193	10.028	1.779	13.617	5.228	7.27	
186467.6	2962.73	18.787	7.686	5.193	10.028	1.779	13.617	5.228	7.27	
186497.6	2963.23	18.787	7.686	5.193	10.017	1.777	13.617	5.228	7.27	
186527.6	2963.73	18.888	7.686	5.193	10.028	1.777	13.64	5.228	7.27	
186557.6	2964.23	18.787	7.686	5.193	10.028	1.784	13.617	5.228	7.27	
186587.6	2964.73	18.787	7.686	5.193	10.017	1.784	13.64	5.228	7.27	
186617.6	2965.23	18.888	7.686	5.193	10.028	1.784	13.64	5.228	7.27	
186647.6	2965.73	18.584	7.686	5.193	10.028	1.784	13.617	5.228	7.282	
186677.6	2966.23	18.482	7.686	5.193	10.028	1.784	13.64	5.228	7.282	
186707.6	2966.73	18.888	7.686	5.193	10.028	1.782	13.64	5.228	7.27	
186737.6	2967.23	18.787	7.686	5.193	10.028	1.782	13.64	5.262	7.27	
186767.6	2967.73	18.888	7.686	5.193	10.028	1.779	13.64	5.262	7.282	
186797.6	2968.23	18.888	7.686	5.193	10.028	1.782	13.64	5.262	7.282	
186827.6	2968.73	18.685	7.686	5.193	10.017	1.782	13.64	5.262	7.27	
186857.6	2969.23	18.787	7.709	5.193	10.028	1.782	13.64	5.262	7.282	
186887.6	2969.73	18.685	7.709	5.193	10.028	1.779	13.663	5.262	7.282	

Time (s)	Elapsed Time (m)	Analog#01 MW-4	Analog#02 MW-15	Analog#03 MW-17	Analog#04 MW-18	Analog#05 MW-28	Analog#06 MW-30	Analog#07 MW-13	Analog#08 MW-29
186917.6	2970.23	18.787	7.709	5.193	10.028	1.782	13.663	5.262	7.293
186947.6	2970.73	18.888	7.709	5.193	10.028	1.779	13.663	5.297	7.282
186977.6	2971.23	18.888	7.709	5.205	10.028	1.779	13.663	5.297	7.293
187007.6	2971.73	18.584	7.709	5.205	10.04	1.789	13.663	5.297	7.293
187037.6	2972.23	18.787	7.709	5.205	10.04	1.786	13.686	5.297	7.293
187067.6	2972.73	18.787	7.709	5.205	10.04	1.786	13.663	5.297	7.293
187097.6	2973.23	18.99	7.709	5.205	10.04	1.789	13.663	5.297	7.293
187127.6	2973.73	18.99	7.709	5.205	10.04	1.786	13.663	5.297	7.293
187157.6	2974.23	18.99	7.709	5.216	10.04	1.791	13.686	5.297	7.293
187187.6	2974.73	18.685	7.709	5.205	10.04	1.791	13.663	5.297	7.293
187217.6	2975.23	18.888	7.709	5.216	10.04	1.793	13.686	5.331	7.293
187247.6	2975.73	18.584	7.709	5.205	10.04	1.796	13.686	5.297	7.305
187277.6	2976.23	18.584	7.709	5.205	10.04	1.791	13.686	5.331	7.305
187307.6	2976.73	18.99	7.709	5.205	10.051	1.793	13.686	5.331	7.305
187337.6	2977.23	18.888	7.709	5.216	10.04	1.796	13.686	5.331	7.305
187367.6	2977.73	18.584	7.709	5.205	10.04	1.796	13.686	5.331	7.305
187397.6	2978.23	18.685	7.709	5.205	10.04	1.793	13.686	5.331	7.293
187427.6	2978.73	18.787	7.709	5.205	10.04	1.793	13.686	5.331	7.293
187457.6	2979.23	18.787	7.709	5.205	10.04	1.786	13.686	5.331	7.305
187487.6	2979.73	18.888	7.709	5.205	10.04	1.791	13.686	5.331	7.293
187517.6	2980.23	18.888	7.732	5.205	10.04	1.796	13.686	5.331	7.305
187547.6	2980.73	18.685	7.709	5.205	10.04	1.796	13.686	5.331	7.305
187577.6	2981.23	18.787	7.709	5.205	10.04	1.796	13.686	5.366	7.305
187607.6	2981.73	18.685	7.732	5.205	10.04	1.796	13.686	5.366	7.305
187637.6	2982.23	18.685	7.732	5.216	10.04	1.796	13.71	5.331	7.305
187667.6	2982.73	18.99	7.709	5.205	10.04	1.796	13.71	5.331	7.305
187697.6	2983.23	18.888	7.709	5.205	10.051	1.798	13.686	5.331	7.305
187727.6	2983.73	19.091	7.732	5.205	10.04	1.798	13.686	5.366	7.305
187757.6	2984.23	19.091	7.709	5.216	10.04	1.796	13.71	5.366	7.305
187787.6	2984.73	18.685	7.732	5.205	10.051	1.8	13.686	5.366	7.305
187817.6	2985.23	19.193	7.709	5.216	10.04	1.8	13.71	5.366	7.305
187847.6	2985.73	18.888	7.709	5.216	10.051	1.798	13.71	5.366	7.305
187877.6	2986.23	18.888	7.732	5.216	10.04	1.798	13.71	5.366	7.305
187907.6	2986.73	18.787	7.732	5.205	10.04	1.796	13.71	5.366	7.305
187937.6	2987.23	18.888	7.732	5.205	10.04	1.798	13.71	5.366	7.305
187967.6	2987.73	18.99	7.732	5.205	10.04	1.798	13.71	5.366	7.305
187997.6	2988.23	19.193	7.732	5.205	10.04	1.796	13.71	5.366	7.305
188027.6	2988.73	19.193	7.732	5.205	10.04	1.793	13.71	5.366	7.305
188057.6	2989.23	19.193	7.732	5.205	10.04	1.798	13.733	5.366	7.316
188087.6	2989.73	19.193	7.732	5.205	10.051	1.8	13.71	5.366	7.316
188117.6	2990.23	18.787	7.732	5.216	10.04	1.8	13.71	5.401	7.316
188177.6	2991.23	19.295	7.732	5.216	10.051	1.8	13.686	5.366	7.293
188237.6	2992.23	19.091	7.732	5.205	10.051	1.803	13.686	5.331	7.293
188297.6	2993.23	18.99	7.732	5.205	10.051	1.798	13.663	5.366	7.293
188357.6	2994.23	18.99	7.732	5.216	10.051	1.803	13.686	5.366	7.293
188417.6	2995.23	19.396	7.732	5.216	10.051	1.798	13.663	5.366	7.293
188477.6	2996.23	19.396	7.732	5.205	10.04	1.798	13.663	5.331	7.293
188537.6	2997.23	19.091	7.732	5.205	10.04	1.798	13.663	5.331	7.293
188597.6	2998.23	19.498	7.732	5.205	10.051	1.798	13.663	5.366	7.293
188657.6	2999.23	19.396	7.732	5.205	10.04	1.796	13.663	5.366	7.282
188717.6	3000.23	19.193	7.732	5.205	10.04	1.8	13.663	5.366	7.293
188777.6	3001.23	19.193	7.732	5.205	10.051	1.803	13.686	5.401	7.305
188837.6	3002.23	19.599	7.732	5.205	10.04	1.8	13.686	5.366	7.293

Time (s)	Elapsed Time (m)	Analog#01	Analog#02	Analog#03	Analog#04	Analog#05	Analog#06	Analog#07	Analog#0
		MW-4	MW-15	MW-17	MW-18	MW-28	MW-30	MW-13	MW-29
188897.6	3003.23	19.193	7.732	5.205	10.04	1.798	13.686	5.366	7.293
188957.6	3004.23	19.599	7.732	5.205	10.04	1.803	13.686	5.366	7.305
189017.6	3005.23	19.498	7.732	5.205	10.051	1.803	13.686	5.366	7.293
189077.6	3006.23	19.396	7.732	5.205	10.051	1.803	13.686	5.401	7.293
189137.6	3007.23	19.295	7.732	5.205	10.04	1.8	13.71	5.401	7.293
189197.6	3008.23	19.701	7.732	5.205	10.04	1.803	13.686	5.366	7.293
189257.6	3009.23	19.295	7.732	5.193	10.04	1.798	13.71	5.366	7.293
189317.6	3010.23	19.498	7.732	5.205	10.04	1.8	13.686	5.401	7.293
189377.6	3011.23	19.193	7.732	5.205	10.051	1.8	13.686	5.401	7.305
189437.6	3012.23	19.498	7.732	5.205	10.051	1.8	13.686	5.401	7.305
189497.6	3013.23	19.396	7.732	5.205	10.051	1.798	13.71	5.401	7.305
189557.6	3014.23	19.498	7.732	5.205	10.04	1.8	13.71	5.401	7.305
189617.6	3015.23	19.498	7.732	5.205	10.04	1.798	13.686	5.401	7.305
189677.6	3016.23	19.396	7.732	5.205	10.051	1.796	13.71	5.435	7.305
189737.6	3017.23	19.193	7.732	5.205	10.04	1.798	13.686	5.435	7.305
189797.6	3018.23	19.193	7.755	5.205	10.051	1.8	13.71	5.401	7.305
189857.6	3019.23	19.193	7.755	5.205	10.04	1.798	13.71	5.435	7.305
189917.6	3020.23	19.295	7.732	5.205	10.051	1.798	13.71	5.435	7.316
189977.6	3021.23	19.396	7.732	5.205	10.051	1.796	13.71	5.435	7.305
190037.6	3022.23	19.396	7.755	5.205	10.051	1.8	13.686	5.47	7.305
190097.6	3023.23	19.193	7.755	5.205	10.051	1.798	13.71	5.435	7.316
190157.6	3024.23	19.498	7.755	5.205	10.051	1.796	13.71	5.435	7.316
190217.6	3025.23	19.193	7.755	5.205	10.051	1.798	13.71	5.435	7.316
190277.6	3026.23	19.498	7.755	5.205	10.051	1.798	13.71	5.47	7.316
190337.6	3027.23	19.295	7.755	5.205	10.051	1.798	13.733	5.47	7.316
190397.6	3028.23	19.498	7.755	5.205	10.051	1.798	13.733	5.47	7.316
190457.6	3029.23	19.193	7.755	5.205	10.051	1.796	13.733	5.47	7.316
190517.6	3030.23	19.396	7.755	5.205	10.051	1.798	13.71	5.47	7.316
190577.6	3031.23	19.295	7.755	5.205	10.051	1.798	13.733	5.47	7.316
190637.6	3032.23	19.396	7.755	5.205	10.051	1.798	13.756	5.47	7.316
190697.6	3033.23	19.599	7.755	5.205	10.051	1.8	13.756	5.47	7.316
190757.6	3034.23	19.295	7.755	5.205	10.051	1.796	13.733	5.47	7.316
190817.6	3035.23	19.193	7.755	5.205	10.051	1.798	13.756	5.47	7.316
190877.6	3036.23	19.396	7.755	5.216	10.051	1.8	13.756	5.47	7.328
190937.6	3037.23	19.396	7.755	5.205	10.051	1.8	13.756	5.47	7.328
190997.6	3038.23	19.193	7.755	5.205	10.051	1.8	13.756	5.47	7.328
191057.6	3039.23	19.599	7.755	5.205	10.063	1.798	13.756	5.505	7.316
191117.6	3040.23	19.498	7.755	5.205	10.063	1.796	13.756	5.505	7.328
191177.6	3041.23	19.295	7.755	5.205	10.051	1.798	13.756	5.505	7.316
191237.6	3042.23	19.498	7.755	5.205	10.051	1.798	13.779	5.505	7.328
191297.6	3043.23	19.396	7.755	5.205	10.051	1.798	13.779	5.505	7.328
191357.6	3044.23	19.295	7.755	5.205	10.051	1.796	13.779	5.505	7.339
191417.6	3045.23	19.295	7.755	5.205	10.051	1.798	13.756	5.505	7.328
191477.6	3046.23	19.599	7.755	5.205	10.051	1.796	13.779	5.505	7.339
191537.6	3047.23	19.295	7.755	5.205	10.051	1.793	13.779	5.505	7.339
191597.6	3048.23	19.701	7.778	5.193	10.051	1.793	13.779	5.505	7.339
191657.6	3049.23	19.498	7.778	5.193	10.051	1.798	13.802	5.539	7.339
191957.6	3054.23	19.498	7.778	5.205	10.051	1.796	13.733	5.47	7.316
192257.6	3059.23	19.295	7.778	5.205	10.063	1.798	13.686	5.47	7.316
192557.6	3064.23	19.599	7.801	5.216	10.063	1.803	13.71	5.47	7.316
192857.6	3069.23	18.685	7.801	5.216	10.074	1.805	13.71	5.505	7.328
193157.6	3074.23	19.193	7.801	5.216	10.074	1.803	13.71	5.505	7.328
193457.6	3079.23	19.295	7.801	5.216	10.074	1.809	13.71	5.505	7.328

Time (s)	Elapsed		Analog#01	Analog#02	Analog#03	Analog#04	Analog#05	Analog#06	Analog#07	Analog#0
	Time (m)									
			MW-4	MW-15	MW-17	MW-18	MW-28	MW-30	MW-13	MW-29
193757.6	3084.23	18.99	7.801	5.216	10.074	1.807	13.733	5.505	7.328	
194057.6	3089.23	18.685	7.824	5.216	10.074	1.812	13.733	5.505	7.328	
194357.6	3094.23	19.091	7.824	5.216	10.086	1.809	13.756	5.539	7.339	
194657.6	3099.23	19.091	7.824	5.228	10.086	1.809	13.756	5.539	7.339	
194957.6	3104.23	19.295	7.824	5.216	10.086	1.812	13.756	5.574	7.339	
195257.6	3109.23	19.193	7.824	5.228	10.086	1.812	13.779	5.608	7.339	
195557.6	3114.23	19.091	7.847	5.216	10.086	1.812	13.779	5.608	7.351	
195857.6	3119.23	19.295	7.824	5.216	10.086	1.812	13.802	5.608	7.351	
196157.6	3124.23	19.091	7.847	5.216	10.086	1.812	13.802	5.608	7.363	
196457.6	3129.23	19.091	7.824	5.216	10.086	1.812	13.802	5.608	7.363	
196757.6	3134.23	19.193	7.847	5.216	10.086	1.814	13.825	5.643	7.363	
197057.6	3139.23	19.193	7.847	5.216	10.098	1.814	13.825	5.643	7.374	
197357.6	3144.23	18.99	7.847	5.216	10.098	1.812	13.825	5.643	7.374	
197657.6	3149.23	18.99	7.847	5.205	10.086	1.812	13.848	5.643	7.363	
197957.6	3154.23	19.193	7.847	5.205	10.086	1.809	13.848	5.678	7.374	
198257.6	3159.23	18.99	7.847	5.205	10.086	1.809	13.871	5.678	7.374	
198557.6	3164.23	19.193	7.847	5.205	10.086	1.807	13.871	5.678	7.386	
198857.6	3169.23	18.888	7.847	5.205	10.086	1.807	13.871	5.712	7.386	
199157.6	3174.23	19.091	7.847	5.216	10.098	1.807	13.894	5.712	7.386	
199457.6	3179.23	18.99	7.87	5.205	10.098	1.805	13.894	5.712	7.397	
199757.6	3184.23	19.193	7.87	5.205	10.098	1.807	13.894	5.712	7.397	
200057.6	3189.23	19.091	7.87	5.205	10.098	1.809	13.917	5.747	7.397	
200357.6	3194.23	19.193	7.87	5.205	10.098	1.807	13.917	5.747	7.397	
200657.6	3199.23	19.193	7.87	5.205	10.098	1.807	13.917	5.747	7.397	
200957.6	3204.23	19.091	7.87	5.205	10.098	1.807	13.94	5.782	7.409	
201257.6	3209.23	18.99	7.87	5.205	10.098	1.807	13.94	5.782	7.409	
201557.6	3214.23	19.295	7.87	5.205	10.109	1.809	13.963	5.782	7.42	
201857.6	3219.23	18.99	7.87	5.205	10.109	1.809	13.963	5.782	7.42	
202157.6	3224.23	18.482	7.87	5.193	10.109	1.809	13.963	5.816	7.42	
202457.6	3229.23	18.177	7.893	5.205	10.109	1.809	13.94	5.782	7.42	
202757.6	3234.23	18.076	7.893	5.205	10.109	1.812	13.94	5.782	7.409	
203057.6	3239.23	18.279	7.893	5.205	10.109	1.809	13.94	5.782	7.409	
203357.6	3244.23	18.279	7.893	5.205	10.109	1.816	13.94	5.782	7.42	
203657.6	3249.23	18.584	7.893	5.205	10.109	1.814	13.94	5.782	7.409	
203957.6	3254.23	18.584	7.893	5.193	10.109	1.816	13.94	5.782	7.409	
204257.6	3259.23	18.685	7.893	5.193	10.109	1.816	13.94	5.782	7.409	
204557.6	3264.23	18.685	7.893	5.193	10.109	1.812	13.94	5.782	7.397	
204857.6	3269.23	18.584	7.87	5.181	10.098	1.814	13.917	5.782	7.397	
205157.6	3274.23	18.482	7.87	5.181	10.109	1.814	13.917	5.782	7.409	
205457.6	3279.23	18.584	7.893	5.181	10.109	1.812	13.94	5.782	7.397	
205757.6	3284.23	18.482	7.893	5.181	10.109	1.812	13.94	5.782	7.409	
206057.6	3289.23	18.584	7.87	5.181	10.109	1.809	13.917	5.782	7.409	
206357.6	3294.23	18.584	7.893	5.17	10.098	1.809	13.917	5.782	7.397	
206657.6	3299.23	18.685	7.893	5.17	10.098	1.807	13.917	5.782	7.397	
206957.6	3304.23	18.584	7.87	5.17	10.098	1.807	13.917	5.782	7.409	
207257.6	3309.23	18.787	7.87	5.17	10.098	1.809	13.917	5.782	7.409	
207557.6	3314.23	18.584	7.893	5.181	10.109	1.809	13.917	5.816	7.397	
207857.6	3319.23	18.685	7.893	5.181	10.098	1.809	13.917	5.816	7.409	
208157.6	3324.23	18.888	7.893	5.181	10.109	1.809	13.917	5.816	7.409	
208457.6	3329.23	18.584	7.893	5.181	10.109	1.809	13.94	5.782	7.409	
208757.6	3334.23	18.685	7.893	5.181	10.109	1.812	13.94	5.782	7.409	
209057.6	3339.23	18.787	7.893	5.17	10.109	1.809	13.94	5.816	7.409	
209357.6	3344.23	18.787	7.893	5.181	10.109	1.814	13.917	5.816	7.409	

Time (s)	Elapsed Time (m)	Analogs	Analogs	Analogs	Analogs	Analogs	Analogs	Analogs	Analogs
		MW-4	MW-15	MW-17	MW-18	MW-28	MW-30	MW-13	MW-29
210257.6	3359.23	18.482	7.893	5.181	10.109	1.814	13.894	5.782	7.397
211157.6	3374.23	18.685	7.916	5.17	10.109	1.821	13.894	5.782	7.397
212057.6	3389.23	18.787	7.893	5.17	10.121	1.819	13.894	5.782	7.409
212957.6	3404.23	18.584	7.893	5.17	10.121	1.821	13.871	5.782	7.397
213857.6	3419.23	18.787	7.916	5.17	10.121	1.821	13.871	5.816	7.397
214757.6	3434.23	18.685	7.916	5.17	10.121	1.826	13.871	5.782	7.397
215657.6	3449.23	18.888	7.916	5.158	10.121	1.826	13.871	5.782	7.397
216557.6	3464.23	18.685	7.916	5.147	10.121	1.823	13.871	5.782	7.397
217457.6	3479.23	18.787	7.916	5.147	10.121	1.819	13.871	5.782	7.397
218357.6	3494.23	18.787	7.916	5.147	10.121	1.828	13.894	5.782	7.409
219257.6	3509.23	18.685	7.94	5.147	10.132	1.828	13.871	5.816	7.397
220157.6	3524.23	18.685	7.94	5.147	10.132	1.83	13.871	5.816	7.409
221057.6	3539.23	18.787	7.94	5.147	10.132	1.83	13.871	5.816	7.409
221957.6	3554.23	18.685	7.94	5.147	10.144	1.833	13.894	5.816	7.42
222857.6	3569.23	18.584	7.94	5.147	10.144	1.837	13.894	5.816	7.42
223757.6	3584.23	18.787	7.94	5.135	10.144	1.833	13.894	5.816	7.409
224657.6	3599.23	18.888	7.94	5.124	10.132	1.833	13.894	5.816	7.409
225557.6	3614.23	18.787	7.94	5.124	10.132	1.828	13.917	5.851	7.42
226457.6	3629.23	18.888	7.94	5.112	10.132	1.83	13.917	5.851	7.409
227357.6	3644.23	18.888	7.94	5.112	10.132	1.823	13.894	5.851	7.42
228257.6	3659.23	18.787	7.94	5.101	10.132	1.826	13.917	5.851	7.42
229157.6	3674.23	18.888	7.963	5.112	10.144	1.828	13.94	5.851	7.432
230057.6	3689.23	18.99	7.963	5.112	10.144	1.833	13.94	5.885	7.432
230957.6	3704.23	18.685	7.963	5.101	10.144	1.83	13.94	5.885	7.432
231857.6	3719.23	18.99	7.94	5.089	10.132	1.83	13.94	5.885	7.432
232757.6	3734.23	18.888	7.963	5.089	10.144	1.826	13.963	5.885	7.432
233657.6	3749.23	19.091	7.963	5.089	10.144	1.826	13.963	5.92	7.443
234557.6	3764.23	19.193	7.963	5.078	10.144	1.826	13.963	5.92	7.443
235457.6	3779.23	18.888	7.963	5.066	10.132	1.821	13.963	5.92	7.443
236357.6	3794.23	18.99	7.963	5.055	10.144	1.823	13.986	5.92	7.443
237257.6	3809.23	18.888	7.963	5.043	10.144	1.821	13.963	5.955	7.443
238157.6	3824.23	19.295	7.963	5.031	10.132	1.819	13.963	5.955	7.443
239057.6	3839.23	19.193	7.963	5.031	10.144	1.816	13.986	5.955	7.443
239957.6	3854.23	18.99	7.963	5.031	10.144	1.816	13.963	5.955	7.455
240857.6	3869.23	19.193	7.963	5.031	10.144	1.821	13.94	5.989	7.455
241757.6	3884.23	18.99	7.963	5.031	10.144	1.821	13.94	5.92	7.443
242657.6	3899.23	19.091	7.963	5.02	10.144	1.823	13.94	5.92	7.443
243557.6	3914.23	19.091	7.963	5.02	10.144	1.823	13.917	5.92	7.443
244457.6	3929.23	19.193	7.963	5.02	10.144	1.83	13.871	5.92	7.432
245357.6	3944.23	19.091	7.94	5.008	10.144	1.828	13.825	5.851	7.409
246257.6	3959.23	19.193	7.94	4.997	10.132	1.828	13.779	5.816	7.397
247157.6	3974.23	19.091	7.916	4.985	10.132	1.828	13.756	5.782	7.374
248057.6	3989.23	18.787	7.94	4.985	10.132	1.837	13.71	5.747	7.374
248957.6	4004.23	18.99	7.94	4.985	10.132	1.842	13.686	5.712	7.363
249857.6	4019.23	18.787	7.916	4.997	10.132	1.853	13.663	5.712	7.351
250757.6	4034.23	18.787	7.893	4.974	10.121	1.846	13.617	5.678	7.339
251657.6	4049.23	18.685	7.916	4.985	10.132	1.851	13.617	5.678	7.339
252557.6	4064.23	18.888	7.916	4.985	10.132	1.849	13.594	5.678	7.339
253457.6	4079.23	18.787	7.916	4.974	10.144	1.858	13.594	5.643	7.328
254357.6	4094.23	18.888	7.916	4.974	10.132	1.869	13.571	5.643	7.316
255257.6	4109.23	18.99	7.916	4.974	10.144	1.867	13.571	5.643	7.328
256157.6	4124.23	18.99	7.916	4.951	10.121	1.846	13.548	5.574	7.305
257057.6	4139.23	18.787	7.916	4.985	10.155	1.881	13.548	5.608	7.316

Time (s)	Elapsed Time (m)	Analog#01 MW-4	Analog#02 MW-15	Analog#03 MW-17	Analog#04 MW-18	Analog#05 MW-28	Analog#06 MW-30	Analog#07 MW-13	Analog#0 MW-29
257957.6	4154.23	18.99	7.893	4.951	10.132	1.856	13.502	5.608	7.293
258857.6	4169.23	18.99	7.893	4.962	10.132	1.86	13.502	5.574	7.305
259757.6	4184.23	19.091	7.893	4.951	10.132	1.865	13.479	5.574	7.293
260657.6	4199.23	18.888	7.916	4.962	10.144	1.867	13.479	5.574	7.305
261557.6	4214.23	19.091	7.916	4.951	10.132	1.869	13.479	5.574	7.282
262457.6	4229.23	19.091	7.893	4.939	10.132	1.863	13.433	5.539	7.27
263357.6	4244.23	18.99	7.893	4.928	10.132	1.86	13.433	5.539	7.27
264257.6	4259.23	18.99	7.893	4.928	10.132	1.856	13.433	5.539	7.27
265157.6	4274.23	19.091	7.916	4.928	10.132	1.856	13.456	5.539	7.27
266057.6	4289.23	18.888	7.893	4.916	10.132	1.853	13.456	5.539	7.259
266957.6	4304.23	19.091	7.893	4.916	10.132	1.853	13.456	5.539	7.27
267857.6	4319.23	18.888	7.893	4.905	10.121	1.849	13.456	5.539	7.27
268757.6	4334.23	18.99	7.916	4.905	10.132	1.849	13.456	5.574	7.27
269657.6	4349.23	18.99	7.916	4.916	10.144	1.858	13.456	5.539	7.282
270557.6	4364.23	18.99	7.893	4.893	10.132	1.849	13.456	5.574	7.27
271457.6	4379.23	18.787	7.916	4.905	10.121	1.851	13.456	5.574	7.27
272357.6	4394.23	18.787	7.94	4.916	10.132	1.856	13.479	5.574	7.293
273257.6	4409.23	18.685	7.94	4.905	10.144	1.863	13.479	5.574	7.293
274157.6	4424.23	18.99	7.94	4.916	10.144	1.872	13.479	5.574	7.293
275057.6	4439.23	18.584	7.916	4.893	10.121	1.865	13.479	5.574	7.282
275957.6	4454.23	18.584	7.916	4.881	10.121	1.853	13.502	5.574	7.282
276857.6	4469.23	18.482	7.916	4.881	10.132	1.851	13.502	5.574	7.293
277757.6	4484.23	18.482	7.916	4.881	10.121	1.851	13.479	5.608	7.293
278657.6	4499.23	17.974	7.94	4.893	10.144	1.856	13.525	5.608	7.305
279557.6	4514.23	18.685	7.94	4.881	10.132	1.858	13.525	5.608	7.293
280457.6	4529.23	18.685	7.94	4.893	10.144	1.863	13.525	5.643	7.316
281357.6	4544.23	18.685	7.94	4.881	10.144	1.867	13.525	5.608	7.316
282257.6	4559.23	18.685	7.94	4.87	10.144	1.865	13.525	5.608	7.305
283157.6	4574.23	18.685	7.963	4.881	10.155	1.869	13.548	5.608	7.316
284057.6	4589.23	18.584	7.94	4.87	10.144	1.869	13.548	5.608	7.316
284957.6	4604.23	18.685	7.94	4.87	10.155	1.872	13.571	5.643	7.328
285857.6	4619.23	18.685	7.94	4.87	10.144	1.869	13.571	5.608	7.316
286757.6	4634.23	18.584	7.963	4.87	10.155	1.872	13.571	5.643	7.328
287657.6	4649.23	18.787	7.963	4.87	10.167	1.876	13.594	5.678	7.339
288557.6	4664.23	18.787	7.963	4.87	10.155	1.874	13.594	5.643	7.339
289457.6	4679.23	18.685	7.963	4.87	10.167	1.876	13.594	5.643	7.339
290357.6	4694.23	18.787	7.963	4.87	10.167	1.879	13.617	5.678	7.351
291257.6	4709.23	18.787	7.963	4.858	10.167	1.879	13.617	5.678	7.351
292157.6	4724.23	18.685	7.963	4.87	10.167	1.879	13.617	5.678	7.351
293057.6	4739.23	18.787	7.986	4.87	10.167	1.886	13.617	5.712	7.363
293957.6	4754.23	18.787	7.986	4.858	10.167	1.888	13.594	5.643	7.351
294857.6	4769.23	18.685	7.986	4.858	10.178	1.89	13.617	5.678	7.363
295757.6	4784.23	18.584	7.986	4.858	10.178	1.895	13.617	5.678	7.363
296657.6	4799.23	18.787	8.009	4.858	10.19	1.897	13.64	5.712	7.363
300257.6	4859.23	18.888	7.986	4.847	10.178	1.897	13.617	5.712	7.363
302057.6	4889.23	18.888	7.986	4.847	10.178	1.897	13.64	5.712	7.363
303857.6	4919.23	18.787	8.009	4.835	10.178	1.895	13.617	5.712	7.363
305657.6	4949.23	18.888	8.009	4.835	10.19	1.902	13.617	5.712	7.363
307457.6	4979.23	18.787	7.986	4.824	10.19	1.899	13.617	5.712	7.363
309257.6	5009.23	19.091	7.986	4.824	10.19	1.904	13.617	5.643	7.351
311057.6	5039.23	19.193	7.986	4.801	10.178	1.893	13.617	5.643	7.351
312857.6	5069.23	18.888	7.986	4.801	10.178	1.89	13.64	5.678	7.363
314657.6	5099.23	18.685	8.009	4.812	10.201	1.899	13.663	5.712	7.374

Time (s)	Elapsed Time (m)	Analog#									
		Analog#01 MW-4	Analog#02 MW-15	Analog#03 MW-17	Analog#04 MW-18	Analog#05 MW-28	Analog#06 MW-30	Analog#07 MW-13	Analog#08 MW-29	Analog#09	Analog#10
316457.6	5129.23	22.138	7.986	4.778	10.178	1.883	13.617	5.608	7.351		
318257.6	5159.23	23.966	8.009	4.778	10.178	1.881	13.64	5.643	7.363		
320057.6	5189.23	23.153	8.009	4.778	10.178	1.883	13.663	5.678	7.374		
321857.6	5219.23	22.036	8.032	4.766	10.201	1.888	13.71	5.712	7.397		
323657.6	5249.23	21.224	8.032	4.766	10.201	1.888	13.71	5.747	7.397		
325457.6	5279.23	20.818	8.032	4.743	10.201	1.881	13.71	5.747	7.397		
327257.6	5309.23	20.818	8.032	4.743	10.201	1.881	13.756	5.782	7.409		
329057.6	5339.23	21.021	8.009	4.731	10.201	1.881	13.756	5.782	7.42		
330857.6	5369.23	21.63	8.009	4.731	10.19	1.881	13.756	5.782	7.409		
332657.6	5399.23	24.169	7.986	4.708	10.178	1.869	13.756	5.782	7.397		
334457.6	5429.23	22.646	8.032	4.708	10.19	1.872	13.779	5.816	7.409		
336257.6	5459.23	23.56	8.032	4.731	10.201	1.881	13.802	5.851	7.432		
338057.6	5489.23	23.458	8.055	4.731	10.213	1.893	13.802	5.851	7.443		
339857.6	5519.23	23.052	8.032	4.72	10.201	1.886	13.802	5.816	7.432		
341657.6	5549.23	23.255	8.032	4.708	10.201	1.893	13.802	5.816	7.432		
343457.6	5579.23	25.794	8.032	4.685	10.19	1.883	13.779	5.816	7.42		
345257.6	5609.23	23.864	8.032	4.674	10.19	1.872	13.756	5.816	7.42		
*Last Scan at		11	17	13	35	43	90				

Date	Time	Analog# mw-4.....	Analog# ft.....	Analog# mw-11.....	Analog# ft.....	Analog# mw-12.....	Analog# ft.....	Analog# mw-14.....	Analog# ft.....	Analog# mw-33.....	Analog# ft.....	Analog# mw-41.....	Analog# ft.....
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Date Monday November 18, 1991 12:01 PM
 PlotFile C:\UPPUMP\RENTDLO1.PRN
 DataFile C:\UPPUMP\RENTDL

Time of First Log in Specified Window
 33555.671347 0.671347222

Date	Time	Analog# mw-4.....	Analog# ft.....	Analog# mw-11.....	Analog# ft.....	Analog# mw-12.....	Analog# ft.....	Analog# mw-14.....	Analog# ft.....	Analog# mw-33.....	Analog# ft.....	Analog# mw-41.....	Analog# ft.....
13-Nov-91	04:06:44 PM	19.317	-2.8767	19.108	19.397	7.8143	10.229						
13-Nov-91	04:06:54 PM	13.838	-2.8767	19.115	19.39	7.8107	10.229						
13-Nov-91	04:07:04 PM	13.503	-2.8767	19.108	19.339	7.8035	10.236						
13-Nov-91	04:07:14 PM	11.954	-2.8767	19.108	19.289	7.8035	10.236						
13-Nov-91	04:07:24 PM	11.803	-2.8767	19.108	19.238	7.8035	10.236						
13-Nov-91	04:07:34 PM	11.77	-2.8767	19.108	19.209	7.7963	10.236						
13-Nov-91	04:07:44 PM	11.705	-2.8767	19.108	19.18	7.8143	10.243						
13-Nov-91	04:07:54 PM	11.662	-2.8767	19.108	19.166	7.8107	10.236						
13-Nov-91	04:08:04 PM	11.619	-2.8767	19.108	19.151	7.8035	10.236						
13-Nov-91	04:08:14 PM	11.586	-2.8767	19.108	19.137	7.7963	10.236						
13-Nov-91	04:08:24 PM	11.554	-2.8767	19.108	19.122	7.7963	10.243						
13-Nov-91	04:08:34 PM	11.532	-2.8767	19.108	19.108	7.7818	10.236						
13-Nov-91	04:08:44 PM	11.521	-2.8767	19.108	19.101	7.7926	10.236						
13-Nov-91	04:08:54 PM	11.489	-2.8767	19.108	19.094	7.789	10.236						
13-Nov-91	04:09:04 PM	11.51	-2.8767	19.108	19.086	7.7963	10.236						
13-Nov-91	04:09:14 PM	11.499	-2.8767	19.108	19.079	7.789	10.236						
13-Nov-91	04:09:24 PM	11.467	-2.8767	19.094	19.072	7.789	10.236						
13-Nov-91	04:09:34 PM	11.499	-2.8767	19.101	19.065	7.7926	10.236						
13-Nov-91	04:09:44 PM	11.489	-2.8767	19.094	19.058	7.7818	10.236						
13-Nov-91	04:09:54 PM	11.51	-2.8767	19.101	19.05	7.7818	10.229						
13-Nov-91	04:10:04 PM	11.499	-2.8767	19.094	19.05	7.7746	10.236						
13-Nov-91	04:10:14 PM	11.532	-2.8767	19.094	19.036	7.771	10.229						
13-Nov-91	04:10:24 PM	11.51	-2.8767	19.101	19.036	7.7674	10.236						
13-Nov-91	04:10:34 PM	11.554	-2.8767	19.094	19.029	7.7854	10.236						
13-Nov-91	04:10:44 PM	11.619	-2.8767	19.094	19.029	7.7674	10.229						
13-Nov-91	04:10:54 PM	11.662	-2.8767	19.094	19.029	7.7782	10.236						
13-Nov-91	04:11:04 PM	11.781	-2.8767	19.094	19.029	7.7782	10.229						
13-Nov-91	04:11:14 PM	11.933	-2.8767	19.086	19.021	7.7674	10.229						
13-Nov-91	04:11:24 PM	11.943	-2.8767	19.094	19.021	7.771	10.229						
13-Nov-91	04:11:34 PM	11.943	-2.8767	19.086	19.021	7.7818	10.229						
13-Nov-91	04:11:44 PM	11.987	-2.8767	19.086	19	7.7746	10.229						
13-Nov-91	04:11:54 PM	12.008	-2.8767	19.086	19.007	7.7638	10.229						
13-Nov-91	04:12:04 PM	11.976	-2.8767	19.086	19.007	7.7602	10.229						
13-Nov-91	04:12:14 PM	11.998	-2.8767	19.086	19.007	7.771	10.229						
13-Nov-91	04:12:24 PM	11.998	-2.8767	19.086	19.007	7.7529	10.229						
13-Nov-91	04:12:34 PM	11.987	-2.8767	19.086	19.007	7.7674	10.229						
13-Nov-91	04:12:44 PM	11.965	-2.8767	19.079	19.007	7.7638	10.229						
13-Nov-91	04:12:54 PM	11.976	-2.8767	19.079	19.007	7.7674	10.229						
13-Nov-91	04:13:04 PM	11.965	-2.8767	19.079	19	7.7638	10.229						
13-Nov-91	04:13:14 PM	11.965	-2.8767	19.079	19	7.7674	10.229						
13-Nov-91	04:13:24 PM	11.933	-2.8767	19.079	18.993	7.7782	10.229						

Date	Time	Analog# mw-4.....ft.....	Analog# mw-11.....ft.....	Analog# mw-12.....ft.....	Analog# mw-14.....ft.....	Analog# mw-33.....ft.....	Analog# mw-41.....ft.....
13-Nov-91	04:13:34 PM	11.976	-2.8767	19.079	18.993	7.7457	10.222
13-Nov-91	04:13:44 PM	11.943	-2.8767	19.086	18.993	7.7782	10.222
13-Nov-91	04:13:54 PM	11.954	-2.8767	19.065	18.993	7.7565	10.229
13-Nov-91	04:14:04 PM	11.933	-2.8767	19.065	18.993	7.771	10.222
13-Nov-91	04:14:14 PM	11.943	-2.8767	19.072	18.993	7.7493	10.222
13-Nov-91	04:14:24 PM	11.922	-2.8767	19.072	18.985	7.7602	10.229
13-Nov-91	04:14:34 PM	11.943	-2.8767	19.072	18.978	7.7638	10.222
13-Nov-91	04:14:44 PM	11.933	-2.8767	19.072	18.978	7.7674	10.222
13-Nov-91	04:14:54 PM	11.943	-2.8767	19.072	18.978	7.771	10.222
13-Nov-91	04:15:04 PM	11.933	-2.8767	19.072	18.978	7.7674	10.222
13-Nov-91	04:15:14 PM	11.933	-2.8767	19.072	18.978	7.7565	10.222
13-Nov-91	04:15:24 PM	11.933	-2.8767	19.065	18.978	7.7638	10.222
13-Nov-91	04:15:34 PM	11.922	-2.8767	19.065	18.964	7.7602	10.222
13-Nov-91	04:15:44 PM	11.933	-2.8767	19.065	18.985	7.7565	10.215
13-Nov-91	04:15:54 PM	11.9	-2.8767	19.072	18.971	7.7638	10.222
13-Nov-91	04:16:04 PM	11.911	-2.8767	19.072	18.971	7.7493	10.215
13-Nov-91	04:16:14 PM	11.889	-2.8767	19.065	18.978	7.7602	10.215
13-Nov-91	04:16:24 PM	11.9	-2.8767	19.065	18.964	7.7602	10.215
13-Nov-91	04:16:34 PM	11.922	-2.8767	19.065	18.964	7.7602	10.215
13-Nov-91	04:16:44 PM	11.9	-2.8767	19.065	18.964	7.7638	10.215
13-Nov-91	04:17:14 PM	11.9	-2.8767	19.065	18.956	7.7529	10.222
13-Nov-91	04:17:44 PM	11.868	-2.8767	19.065	18.956	7.7529	10.215
13-Nov-91	04:18:14 PM	11.889	-2.8767	19.058	18.956	7.7565	10.215
13-Nov-91	04:18:44 PM	11.857	-2.8767	19.058	18.949	7.7493	10.215
13-Nov-91	04:19:14 PM	11.889	-2.8767	19.058	18.949	7.7638	10.215
13-Nov-91	04:19:44 PM	11.857	-2.8767	19.05	18.942	7.7565	10.215
13-Nov-91	04:20:14 PM	11.868	-2.8767	19.058	18.935	7.7529	10.215
13-Nov-91	04:20:44 PM	11.835	-2.8767	19.05	18.935	7.7421	10.215
13-Nov-91	04:21:14 PM	11.824	-2.8767	19.05	18.935	7.7421	10.215
13-Nov-91	04:21:44 PM	11.824	-2.8767	19.05	18.928	7.7457	10.207
13-Nov-91	04:22:14 PM	11.813	-2.8803	19.043	18.928	7.7529	10.207
13-Nov-91	04:22:44 PM	11.824	-2.8803	19.05	18.92	7.7565	10.207
13-Nov-91	04:23:14 PM	11.813	-2.8767	19.043	18.92	7.7349	10.207
13-Nov-91	04:23:44 PM	11.824	-2.8767	19.043	18.913	7.7493	10.207
13-Nov-91	04:24:14 PM	11.813	-2.8803	19.043	18.913	7.7529	10.207
13-Nov-91	04:24:44 PM	11.803	-2.8767	19.043	18.906	7.7457	10.207
13-Nov-91	04:25:14 PM	11.803	-2.8767	19.036	18.913	7.7493	10.207
13-Nov-91	04:25:44 PM	11.792	-2.8767	19.036	18.906	7.7457	10.2
13-Nov-91	04:26:14 PM	11.803	-2.8767	19.036	18.906	7.7385	10.2
13-Nov-91	04:26:44 PM	11.792	-2.8803	19.036	18.906	7.7349	10.207
13-Nov-91	04:27:14 PM	11.781	-2.8767	19.036	18.906	7.7349	10.2
13-Nov-91	04:27:44 PM	11.813	-2.8803	19.036	18.906	7.7421	10.2
13-Nov-91	04:28:14 PM	11.781	-2.8803	19.036	18.891	7.7385	10.2
13-Nov-91	04:28:44 PM	11.803	-2.8803	19.036	18.891	7.7349	10.2
13-Nov-91	04:29:14 PM	11.803	-2.8803	19.036	18.891	7.7313	10.2
13-Nov-91	04:29:44 PM	11.77	-2.8803	19.036	18.891	7.7277	10.2
13-Nov-91	04:30:14 PM	11.759	-2.8803	19.036	18.891	7.7241	10.193
13-Nov-91	04:30:44 PM	11.781	-2.8767	19.029	18.884	7.7241	10.2
13-Nov-91	04:31:14 PM	11.77	-2.8803	19.029	18.884	7.7241	10.193
13-Nov-91	04:31:44 PM	11.759	-2.8803	19.029	18.877	7.7421	10.193
13-Nov-91	04:32:14 PM	11.759	-2.8803	19.036	18.877	7.7205	10.193
13-Nov-91	04:32:44 PM	11.749	-2.8803	19.029	18.877	7.7277	10.193

Date	Time	Analog# Analog# Analog# Analog# Analog# Analog#					
		mw-4.....ft.....	mw-11.....ft.....	mw-12.....ft.....	mw-14.....ft.....	mw-33.....ft.....	mw-41.....ft.....
13-Nov-91	04:33:14 PM	11.749	-2.8803	19.029	18.877	7.7277	10.193
13-Nov-91	04:33:44 PM	11.759	-2.8803	19.029	18.877	7.7205	10.193
13-Nov-91	04:34:14 PM	11.749	-2.8803	19.029	18.87	7.7241	10.193
13-Nov-91	04:34:44 PM	11.759	-2.8803	19.029	18.87	7.7241	10.193
13-Nov-91	04:35:14 PM	11.738	-2.8803	19.029	18.87	7.7205	10.193
13-Nov-91	04:35:44 PM	11.705	-2.8803	19.021	18.87	7.7277	10.193
13-Nov-91	04:36:14 PM	11.759	-2.8803	19.029	18.863	7.7313	10.193
13-Nov-91	04:36:44 PM	11.738	-2.8803	19.029	18.863	7.7241	10.193
13-Nov-91	04:37:14 PM	11.716	-2.8803	19.029	18.863	7.7241	10.186
13-Nov-91	04:37:44 PM	11.727	-2.8803	19.029	18.863	7.7313	10.193
13-Nov-91	04:38:14 PM	11.749	-2.8803	19.021	18.855	7.7205	10.193
13-Nov-91	04:38:44 PM	11.705	-2.8803	19.021	18.855	7.7205	10.186
13-Nov-91	04:39:14 PM	11.716	-2.8803	19.029	18.855	7.7168	10.193
13-Nov-91	04:39:44 PM	11.738	-2.8767	19.014	18.855	7.7241	10.186
13-Nov-91	04:40:14 PM	11.694	-2.8767	19.021	18.855	7.7205	10.186
13-Nov-91	04:40:44 PM	11.716	-2.8767	19.014	18.848	7.7241	10.178
13-Nov-91	04:41:14 PM	11.738	-2.8803	19.014	18.848	7.7168	10.186
13-Nov-91	04:41:44 PM	11.716	-2.8767	19.014	18.848	7.7205	10.186
13-Nov-91	04:42:14 PM	11.705	-2.8803	19.014	18.841	7.7277	10.178
13-Nov-91	04:42:44 PM	11.727	-2.8767	19.014	18.841	7.7205	10.178
13-Nov-91	04:43:14 PM	11.716	-2.8803	19.014	18.841	7.7132	10.178
13-Nov-91	04:43:44 PM	11.694	-2.8803	19.014	18.841	7.706	10.178
13-Nov-91	04:44:14 PM	11.684	-2.8803	19.014	18.841	7.6988	10.178
13-Nov-91	04:44:44 PM	11.694	-2.8803	19.014	18.834	7.6952	10.178
13-Nov-91	04:45:14 PM	11.716	-2.8803	19.014	18.834	7.7132	10.178
13-Nov-91	04:45:44 PM	11.684	-2.8803	19.014	18.834	7.6988	10.178
13-Nov-91	04:46:14 PM	11.694	-2.8803	19.007	18.834	7.7132	10.178
13-Nov-91	04:46:44 PM	11.694	-2.8767	19.007	18.834	7.6916	10.178
13-Nov-91	04:47:14 PM	11.694	-2.8803	19.007	18.834	7.7096	10.178
13-Nov-91	04:47:44 PM	11.694	-2.8803	19.014	18.834	7.7024	10.186
13-Nov-91	04:48:14 PM	11.673	-2.8803	19.007	18.841	7.6952	10.171
13-Nov-91	04:48:44 PM	11.684	-2.8803	19.007	18.827	7.6988	10.178
13-Nov-91	04:49:14 PM	11.662	-2.8803	19.007	18.819	7.6952	10.178
13-Nov-91	04:49:44 PM	11.684	-2.8767	19.029	18.819	7.706	10.178
13-Nov-91	04:50:14 PM	11.673	-2.8803	19.007	18.819	7.6988	10.178
13-Nov-91	04:50:44 PM	11.662	-2.8803	19.007	18.819	7.6988	10.171
13-Nov-91	04:51:14 PM	11.662	-2.8803	19.007	18.819	7.6988	10.178
13-Nov-91	04:51:44 PM	11.673	-2.8803	19.007	18.819	7.7024	10.171
13-Nov-91	04:52:14 PM	11.662	-2.8767	19.007	18.812	7.688	10.171
13-Nov-91	04:52:44 PM	11.673	-2.8767	19.007	18.812	7.7024	10.178
13-Nov-91	04:53:14 PM	11.662	-2.8803	19.007	18.812	7.706	10.171
13-Nov-91	04:53:44 PM	11.651	-2.8767	19.007	18.812	7.688	10.171
13-Nov-91	04:54:14 PM	11.684	-2.8803	19.007	18.812	7.6844	10.171
13-Nov-91	04:54:44 PM	11.651	-2.8767	19.007	18.805	7.7096	10.171
13-Nov-91	04:55:14 PM	11.651	-2.8803	19.007	18.805	7.6988	10.178
13-Nov-91	04:55:44 PM	11.651	-2.8803	19.007	18.805	7.6916	10.171
13-Nov-91	04:56:14 PM	11.662	-2.8803	19.007	18.805	7.6916	10.171
13-Nov-91	04:56:44 PM	11.651	-2.8803	19.007	18.805	7.688	10.171
13-Nov-91	04:57:14 PM	11.629	-2.8767	19.007	18.805	7.7024	10.171
13-Nov-91	04:57:44 PM	11.629	-2.8803	19	18.812	7.6771	10.171
13-Nov-91	04:58:14 PM	11.673	-2.8767	19.007	18.805	7.6916	10.171
13-Nov-91	04:58:44 PM	11.651	-2.8803	19	18.805	7.8396	10.171

Date	Time	Analog# mw-4.....ft.....	Analog# mw-11.....ft.....	Analog# mw-12.....ft.....	Analog# mw-14.....ft.....	Analog# mw-33.....ft.....	Analog# mw-41.....ft.....
13-Nov-91	04:59:14 PM	11.619	-2.8767	19	18.805	7.836	10.171
13-Nov-91	04:59:44 PM	11.64	-2.8803	19.007	18.805	7.8396	10.171
13-Nov-91	05:00:14 PM	11.651	-2.8767	19	18.805	7.8215	10.171
13-Nov-91	05:00:44 PM	11.651	-2.8803	19	18.805	7.836	10.171
13-Nov-91	05:01:14 PM	11.619	-2.8803	18.993	18.805	7.8251	10.171
13-Nov-91	05:01:44 PM	11.64	-2.8767	19	18.798	7.836	10.171
13-Nov-91	05:02:14 PM	11.64	-2.8803	18.993	18.798	7.8287	10.171
13-Nov-91	05:02:44 PM	11.64	-2.8767	18.993	18.798	7.8323	10.171
13-Nov-91	05:03:14 PM	11.608	-2.8803	18.993	18.798	7.8251	10.171
13-Nov-91	05:03:44 PM	11.629	-2.8803	18.993	18.798	7.8287	10.164
13-Nov-91	05:04:14 PM	11.619	-2.8767	18.993	18.79	7.836	10.171
13-Nov-91	05:04:44 PM	11.619	-2.8803	18.993	18.798	7.8323	10.171
13-Nov-91	05:05:14 PM	11.619	-2.8803	18.993	18.79	7.8323	10.171
13-Nov-91	05:05:44 PM	11.608	-2.8767	18.993	18.798	7.8251	10.171
13-Nov-91	05:06:14 PM	11.608	-2.8767	18.993	18.79	7.8323	10.171
13-Nov-91	05:06:44 PM	11.629	-2.8767	18.993	18.79	7.836	10.171
13-Nov-91	05:07:44 PM	11.619	-2.8803	18.993	18.79	7.8287	10.171
13-Nov-91	05:08:44 PM	11.619	-2.8803	18.993	18.79	7.8287	10.171
13-Nov-91	05:09:44 PM	11.586	-2.8803	18.993	18.79	7.8251	10.171
13-Nov-91	05:10:44 PM	11.619	-2.8767	18.993	18.79	7.8251	10.164
13-Nov-91	05:11:44 PM	11.597	-2.8767	18.993	18.79	7.8251	10.164
13-Nov-91	05:12:44 PM	11.597	-2.8803	18.993	18.79	7.8251	10.164
13-Nov-91	05:13:44 PM	11.619	-2.8803	18.993	18.783	7.8251	10.164
13-Nov-91	05:14:44 PM	11.597	-2.8803	18.993	18.783	7.8179	10.164
13-Nov-91	05:15:44 PM	11.586	-2.8803	18.993	18.783	7.8179	10.157
13-Nov-91	05:16:44 PM	11.586	-2.8767	18.985	18.776	7.8251	10.157
13-Nov-91	05:17:44 PM	11.586	-2.8767	18.993	18.776	7.8215	10.164
13-Nov-91	05:18:44 PM	11.586	-2.8767	18.993	18.783	7.8215	10.157
13-Nov-91	05:19:44 PM	11.597	-2.8767	18.985	18.783	7.8143	10.164
13-Nov-91	05:20:44 PM	11.586	-2.8767	18.985	18.783	7.8215	10.164
13-Nov-91	05:21:44 PM	11.575	-2.8767	18.985	18.776	7.8179	10.157
13-Nov-91	05:22:44 PM	11.586	-2.8767	18.985	18.776	7.8215	10.157
13-Nov-91	05:23:44 PM	11.575	-2.8767	18.985	18.776	7.8179	10.157
13-Nov-91	05:24:44 PM	11.597	-2.8803	18.985	18.776	7.8179	10.157
13-Nov-91	05:25:44 PM	11.575	-2.8767	18.985	18.783	7.8215	10.157
13-Nov-91	05:26:44 PM	11.586	-2.8767	18.985	18.776	7.8215	10.157
13-Nov-91	05:27:44 PM	11.586	-2.8803	18.985	18.776	7.8215	10.157
13-Nov-91	05:28:44 PM	11.586	9.2039	18.993	18.783	7.8179	10.157
13-Nov-91	05:29:44 PM	11.575	9.2003	18.993	18.783	7.8179	10.157
13-Nov-91	05:30:44 PM	11.597	9.2039	18.985	18.776	7.8143	10.157
13-Nov-91	05:31:44 PM	11.564	9.2003	18.993	18.776	7.8107	10.157
13-Nov-91	05:32:44 PM	11.586	9.2003	18.985	18.776	7.8179	10.157
13-Nov-91	05:33:44 PM	11.586	9.2003	18.985	18.776	7.8143	10.157
13-Nov-91	05:34:44 PM	11.564	9.2003	18.985	18.776	7.8143	10.157
13-Nov-91	05:35:44 PM	11.564	9.1967	18.985	18.776	7.8143	10.157
13-Nov-91	05:36:44 PM	11.564	9.1859	18.985	18.776	7.8143	10.157
13-Nov-91	05:37:44 PM	11.564	9.1967	18.985	18.776	7.8107	10.157
13-Nov-91	05:38:44 PM	11.554	9.1967	18.985	18.776	7.8107	10.157
13-Nov-91	05:39:44 PM	11.586	9.1967	18.978	18.776	7.8107	10.157
13-Nov-91	05:40:44 PM	11.564	9.1967	18.985	18.776	7.8143	10.157
13-Nov-91	05:41:44 PM	11.554	9.1967	18.985	18.776	7.8071	10.157
13-Nov-91	05:42:44 PM	11.575	9.1931	18.985	18.776	7.8071	10.157

Date	Time	mw-4	mw-11	mw-12	mw-14	mw-33	mw-41
		ft	ft	ft	ft	ft	ft
13-Nov-91	05:43:44 PM	11.564	9.1931	18.985	18.769	7.8071	10.15
13-Nov-91	05:44:44 PM	11.564	9.1931	18.978	18.762	7.8143	10.15
13-Nov-91	05:45:44 PM	11.554	9.1967	18.978	18.776	7.8107	10.157
13-Nov-91	05:46:44 PM	11.564	9.1931	18.978	18.769	7.8035	10.157
13-Nov-91	05:47:44 PM	11.564	9.1931	18.978	18.769	7.8107	10.15
13-Nov-91	05:48:44 PM	11.554	9.1895	18.978	18.769	7.8107	10.15
13-Nov-91	05:49:44 PM	11.532	9.1931	18.978	18.769	7.8071	10.15
13-Nov-91	05:50:44 PM	11.554	9.1895	18.978	18.769	7.8035	10.15
13-Nov-91	05:51:44 PM	11.543	9.1895	18.978	18.769	7.8071	10.15
13-Nov-91	05:52:44 PM	11.564	9.1895	18.978	18.762	7.8071	10.15
13-Nov-91	05:53:44 PM	11.564	9.1895	18.978	18.762	7.8035	10.15
13-Nov-91	05:54:44 PM	11.554	9.1895	18.978	18.762	7.8179	10.15
13-Nov-91	05:55:44 PM	11.554	9.1931	18.978	18.762	7.7999	10.15
13-Nov-91	05:56:44 PM	11.532	9.1859	18.978	18.762	7.8035	10.15
13-Nov-91	05:57:44 PM	11.554	9.1859	18.978	18.762	7.8035	10.142
13-Nov-91	05:58:44 PM	11.532	9.1859	18.978	18.762	7.8071	10.142
13-Nov-91	05:59:44 PM	11.532	9.1859	18.978	18.762	7.8071	10.142
13-Nov-91	06:00:44 PM	11.532	9.1895	18.978	18.762	7.8071	10.15
13-Nov-91	06:01:44 PM	11.51	9.1859	18.978	18.762	7.7999	10.142
13-Nov-91	06:02:44 PM	11.554	9.1859	18.978	18.762	7.8107	10.142
13-Nov-91	06:03:44 PM	11.554	9.1859	18.978	18.762	7.8143	10.142
13-Nov-91	06:04:44 PM	11.543	9.1895	18.978	18.762	7.8035	10.142
13-Nov-91	06:05:44 PM	11.543	9.1895	18.978	18.762	7.8071	10.142
13-Nov-91	06:06:45 PM	11.532	9.1859	18.978	18.762	7.7999	10.142
13-Nov-91	06:11:44 PM	11.532	9.1823	18.971	18.762	7.8035	10.142
13-Nov-91	06:16:44 PM	11.532	9.1859	18.971	18.762	7.8035	10.142
13-Nov-91	06:21:44 PM	11.532	9.1859	18.971	18.754	7.7999	10.142
13-Nov-91	06:26:44 PM	11.499	9.1859	18.971	18.754	7.7963	10.142
13-Nov-91	06:31:44 PM	11.521	9.1786	18.971	18.754	7.7999	10.142
13-Nov-91	06:36:44 PM	11.499	9.1823	18.971	18.747	7.7999	10.135
13-Nov-91	06:41:44 PM	11.521	9.1823	18.971	18.747	7.7963	10.142
13-Nov-91	06:46:44 PM	11.499	9.175	18.964	18.747	7.7926	10.135
13-Nov-91	06:51:44 PM	11.499	9.1786	18.964	18.747	7.7999	10.135
13-Nov-91	06:56:44 PM	11.489	9.1786	18.964	18.747	7.7926	10.135
13-Nov-91	07:01:44 PM	11.499	9.175	18.964	18.747	7.7963	10.135
13-Nov-91	07:06:44 PM	11.315	9.1714	18.971	18.74	7.7926	10.135
13-Nov-91	07:11:44 PM	11.294	9.1678	18.964	18.733	7.789	10.135
13-Nov-91	07:16:44 PM	11.315	9.1678	18.964	18.733	7.7854	10.135
13-Nov-91	07:21:44 PM	11.315	9.157	18.956	18.733	7.8071	10.135
13-Nov-91	07:26:44 PM	11.294	9.1498	18.956	18.725	7.7999	10.128
13-Nov-91	07:31:44 PM	11.305	9.1534	18.956	18.725	7.7999	10.135
13-Nov-91	07:36:44 PM	11.305	9.1498	18.956	18.718	7.8035	10.128
13-Nov-91	07:41:44 PM	11.283	9.1462	18.956	18.718	7.7963	10.128
13-Nov-91	07:46:44 PM	11.283	9.1425	18.956	18.718	7.7999	10.128
13-Nov-91	07:51:44 PM	11.272	-2.8767	18.949	18.711	7.7963	10.128
13-Nov-91	07:56:44 PM	11.283	9.1462	18.956	18.711	7.789	10.128
13-Nov-91	08:01:44 PM	11.283	9.1498	18.949	18.711	7.789	10.128
13-Nov-91	08:06:44 PM	11.283	9.1498	18.949	18.711	7.7963	10.128
13-Nov-91	08:11:44 PM	11.283	9.157	18.949	18.711	7.7999	10.128
13-Nov-91	08:16:44 PM	11.272	9.1534	18.949	18.718	7.8035	10.128
13-Nov-91	08:21:44 PM	11.272	9.1534	18.949	18.711	7.7926	10.128
13-Nov-91	08:26:44 PM	11.261	9.157	18.949	18.711	7.7963	10.128

Date	Time	Analogue#	Analogue#	Analogue#	Analogue#	Analogue#	Analogue#
		mw-4.....ft.....	mw-11.....ft.....	mw-12.....ft.....	mw-14.....ft.....	mw-33.....ft.....	mw-41.....ft.....
13-Nov-91	08:31:44 PM	11.261	9.1462	18.949	18.704	7.7818	10.121
13-Nov-91	08:36:44 PM	11.261	9.1534	18.949	18.704	7.7926	10.128
13-Nov-91	08:41:44 PM	11.272	9.1534	18.949	18.704	7.7963	10.128
13-Nov-91	08:46:44 PM	11.25	9.1534	18.949	18.704	7.7963	10.128
13-Nov-91	08:51:44 PM	11.25	9.1425	18.949	18.704	7.7854	10.121
13-Nov-91	08:56:44 PM	11.261	9.1425	18.949	18.704	7.789	10.121
13-Nov-91	09:01:44 PM	11.25	9.1462	18.949	18.704	7.7818	10.121
13-Nov-91	09:06:44 PM	11.25	9.1498	18.949	18.704	7.7926	10.121
13-Nov-91	09:11:44 PM	11.25	9.1498	18.949	18.711	7.7926	10.128
13-Nov-91	09:16:44 PM	11.24	9.1498	18.949	18.711	7.7818	10.128
13-Nov-91	09:21:44 PM	11.25	9.1498	18.949	18.711	7.7854	10.128
13-Nov-91	09:26:44 PM	11.261	9.1498	18.949	18.704	7.789	10.128
13-Nov-91	09:31:44 PM	11.24	9.1498	18.956	18.704	7.789	10.128
13-Nov-91	09:36:44 PM	11.229	9.1425	18.956	18.697	7.7854	10.128
13-Nov-91	09:41:44 PM	11.229	9.1425	18.949	18.697	7.7818	10.128
13-Nov-91	09:46:44 PM	11.229	9.1389	18.949	18.689	7.7818	10.121
13-Nov-91	09:51:44 PM	11.25	9.1389	18.949	18.689	7.7746	10.121
13-Nov-91	09:56:44 PM	11.24	9.1353	18.949	18.689	7.7746	10.121
13-Nov-91	10:01:44 PM	11.24	9.1389	18.949	18.689	7.7818	10.128
13-Nov-91	10:06:44 PM	11.24	9.1425	18.949	18.689	7.7782	10.121
13-Nov-91	10:11:44 PM	11.24	9.1389	18.942	18.689	7.7782	10.121
13-Nov-91	10:16:44 PM	11.24	9.1462	18.949	18.697	7.7854	10.128
13-Nov-91	10:21:44 PM	11.229	9.1389	18.949	18.689	7.7782	10.121
13-Nov-91	10:26:44 PM	11.229	9.1425	18.949	18.689	7.7818	10.121
13-Nov-91	10:31:44 PM	11.229	9.1425	18.949	18.689	7.7746	10.121
13-Nov-91	10:36:44 PM	11.229	9.1425	18.949	18.689	7.7854	10.121
13-Nov-91	10:41:44 PM	11.24	9.1317	18.942	18.689	7.771	10.121
13-Nov-91	10:46:44 PM	11.24	9.1353	18.949	18.689	7.771	10.121
13-Nov-91	10:51:44 PM	11.218	9.1317	18.942	18.682	7.771	10.121
13-Nov-91	10:56:44 PM	11.218	9.1317	18.949	18.682	7.771	10.121
13-Nov-91	11:01:44 PM	11.218	9.1353	18.942	18.682	7.7746	10.121
13-Nov-91	11:06:44 PM	11.207	9.1425	18.942	18.682	7.7818	10.121
13-Nov-91	11:21:44 PM	11.207	-2.8767	18.942	18.668	7.7674	10.121
13-Nov-91	11:36:44 PM	11.196	-2.8803	18.935	18.668	7.7602	10.113
13-Nov-91	11:51:44 PM	11.175	-2.8767	18.935	18.66	7.7565	10.113
14-Nov-91	12:06:44 AM	11.185	-2.8767	18.935	18.66	7.7529	10.113
14-Nov-91	12:21:44 AM	11.185	-2.8803	18.935	18.66	7.7602	10.113
14-Nov-91	12:36:44 AM	11.175	-2.8803	18.935	18.66	7.7638	10.113
14-Nov-91	12:51:44 AM	11.185	-2.8803	18.935	18.653	7.7565	10.113
14-Nov-91	01:06:44 AM	11.185	-2.8803	18.935	18.653	7.7565	10.113
14-Nov-91	01:21:44 AM	11.185	-2.8767	18.928	18.646	7.7493	10.113
14-Nov-91	01:36:44 AM	11.164	-2.8803	18.928	18.639	7.7457	10.106
14-Nov-91	01:51:44 AM	11.164	-2.8803	18.92	18.639	7.7457	10.106
14-Nov-91	02:06:44 AM	11.164	-2.8767	18.92	18.632	7.7421	10.099
14-Nov-91	02:21:44 AM	11.164	-2.8803	18.92	18.632	7.7457	10.106
14-Nov-91	02:36:44 AM	11.153	-2.8803	18.92	18.632	7.7385	10.099
14-Nov-91	02:51:44 AM	11.164	-2.8803	18.92	18.632	7.7457	10.099
14-Nov-91	03:06:44 AM	11.164	-2.8803	18.92	18.632	7.7385	10.106
14-Nov-91	03:21:44 AM	11.185	-2.8803	18.92	18.632	7.7421	10.106
14-Nov-91	03:36:44 AM	11.175	-2.8767	18.92	18.632	7.7349	10.106
14-Nov-91	03:51:44 AM	11.175	-2.8803	18.92	18.624	7.7385	10.106
14-Nov-91	04:06:44 AM	11.164	-2.8803	18.92	18.617	7.7277	10.099

Date	Time	Analog# mm-4.....ft.....	Analog# mm-11.....ft.....	Analog# mm-12.....ft.....	Analog# mm-14.....ft.....	Analog# mm-33.....ft.....	Analog# mm-41.....ft.....
14-Nov-91	04:21:44 AM	11.164	-2.8767	18.92	18.61	7.7385	10.099
14-Nov-91	04:36:44 AM	11.164	-2.8803	18.913	18.61	7.7277	10.099
14-Nov-91	04:51:44 AM	11.153	-2.8803	18.906	18.61	7.7277	10.099
14-Nov-91	05:06:44 AM	11.175	-2.8767	18.913	18.61	7.7241	10.099
14-Nov-91	05:21:44 AM	11.164	-2.8767	18.913	18.61	7.7277	10.099
14-Nov-91	05:36:44 AM	11.164	-2.8803	18.913	18.61	7.7205	10.099
14-Nov-91	05:51:44 AM	11.175	-2.8803	18.913	18.603	7.7205	10.099
14-Nov-91	06:06:44 AM	11.164	-2.8767	18.906	18.603	7.7132	10.099
14-Nov-91	06:21:44 AM	11.175	-2.8767	18.913	18.596	7.7132	10.092
14-Nov-91	06:36:44 AM	11.164	-2.8803	18.913	18.596	7.7132	10.092
14-Nov-91	06:51:44 AM	11.142	-2.8803	18.906	18.588	7.4425	10.092
14-Nov-91	07:06:44 AM	11.142	-2.8767	18.906	18.581	7.4498	10.092
14-Nov-91	07:21:44 AM	11.142	-2.8803	18.906	18.581	7.4137	10.085
14-Nov-91	07:36:44 AM	11.153	-2.8767	18.906	18.581	7.4281	10.092
14-Nov-91	07:51:44 AM	11.153	-2.8767	18.899	18.581	7.4137	10.085
14-Nov-91	08:06:44 AM	11.142	-2.8803	18.899	18.574	7.4281	10.085
14-Nov-91	08:21:44 AM	11.142	-2.8767	18.899	18.581	7.4317	10.085
14-Nov-91	08:36:44 AM	11.153	-2.8767	18.899	18.574	7.4281	10.085
14-Nov-91	08:51:44 AM	11.153	-2.8767	18.899	18.574	7.4281	10.092
14-Nov-91	09:06:44 AM	11.131	-2.8767	18.899	18.574	7.4498	10.092
14-Nov-91	09:21:44 AM	11.12	-2.8803	18.906	18.574	7.4389	10.085
14-Nov-91	09:36:44 AM	11.142	-2.8803	18.899	18.574	7.4245	10.077
14-Nov-91	09:51:44 AM	11.142	9.092	18.913	18.567	7.4498	10.092
14-Nov-91	10:06:44 AM	11.099	-2.8803	18.899	18.567	7.4353	10.092
14-Nov-91	10:21:45 AM	11.131	-2.8767	18.899	18.567	7.5003	10.077
14-Nov-91	10:36:44 AM	11.131	-2.8767	18.899	18.567	7.5364	10.092
14-Nov-91	10:51:44 AM	11.131	-2.8767	18.899	18.574	7.5219	10.092
14-Nov-91	11:06:44 AM	11.12	-2.8803	18.906	18.574	7.5183	10.085
14-Nov-91	11:21:44 AM	11.131	-2.8803	18.906	18.567	7.5111	10.092
14-Nov-91	11:36:44 AM	11.131	-2.8767	18.906	18.559	7.5147	10.085
14-Nov-91	11:51:44 AM	11.11	-2.8803	18.906	18.559	7.5075	10.085
14-Nov-91	12:06:44 PM	11.12	-2.8767	18.92	18.567	7.5544	10.099
14-Nov-91	12:21:44 PM	11.12	-2.8767	18.899	18.559	7.5219	10.085
14-Nov-91	12:36:44 PM	11.131	-2.8767	18.906	18.559	7.5219	10.085
14-Nov-91	12:51:44 PM	11.11	-2.8767	18.906	18.559	7.5111	10.092
14-Nov-91	01:06:44 PM	11.099	-2.8803	18.913	18.552	7.5869	10.085
14-Nov-91	01:21:44 PM	11.099	-2.8731	18.899	18.545	7.5183	10.085
14-Nov-91	01:36:44 PM	11.12	-2.8731	18.906	18.552	7.54	10.092
14-Nov-91	01:51:44 PM	11.11	-2.8767	18.913	18.545	7.5436	10.085
14-Nov-91	02:06:44 PM	11.099	-2.8767	18.906	18.545	7.5292	10.085
14-Nov-91	02:21:44 PM	11.088	-2.8767	18.899	18.545	7.5111	10.085
14-Nov-91	02:36:44 PM	11.066	-2.8731	18.906	18.531	7.5147	10.085
14-Nov-91	02:51:44 PM	11.077	-2.8767	18.891	18.538	7.5111	10.077
14-Nov-91	03:06:44 PM	11.012	-2.8767	18.891	18.523	7.5111	10.085
14-Nov-91	03:21:44 PM	11.001	9.0812	18.891	18.531	7.5292	10.077
14-Nov-91	03:36:44 PM	11.001	9.0776	18.899	18.531	7.5003	10.07
14-Nov-91	03:51:44 PM	11.001	9.0776	18.884	18.523	7.4931	10.07
14-Nov-91	04:06:44 PM	11.012	9.0776	18.884	18.523	7.5111	10.063
14-Nov-91	04:21:44 PM	11.001	9.0776	18.891	18.516	7.5003	10.07
14-Nov-91	04:36:44 PM	11.001	9.0704	18.884	18.516	7.4895	10.07
14-Nov-91	04:51:44 PM	11.001	9.0668	18.884	18.516	7.4858	10.063
14-Nov-91	05:06:44 PM	11.001	9.0487	18.884	18.516	7.6374	10.056

Date	Time	mw-4	mw-11	mw-12	mw-14	mw-33	mw-41
		ft	ft	ft	ft	ft	ft
14-Nov-91	05:21:44 PM	10.991	9.0487	18.877	18.509	7.6519	10.056
14-Nov-91	05:36:44 PM	10.969	9.0415	18.877	18.502	7.6555	10.056
14-Nov-91	05:51:44 PM	10.969	9.0451	18.877	18.509	7.6519	10.056
14-Nov-91	06:06:44 PM	10.969	9.0487	18.877	18.509	7.6627	10.049
14-Nov-91	06:21:44 PM	11.001	9.0415	18.877	18.502	7.6483	10.049
14-Nov-91	06:36:44 PM	10.969	9.0451	18.87	18.502	7.6447	10.056
14-Nov-91	06:51:44 PM	10.969	9.0415	18.877	18.494	7.6483	10.049
14-Nov-91	07:06:44 PM	10.947	9.0343	18.87	18.494	7.641	10.049
14-Nov-91	07:21:44 PM	10.969	9.0307	18.87	18.494	7.641	10.041
14-Nov-91	07:36:44 PM	10.947	9.0379	18.87	18.494	7.6302	10.041
14-Nov-91	07:51:44 PM	10.926	9.0379	18.863	18.487	7.641	10.049
14-Nov-91	08:06:44 PM	10.936	9.0379	18.87	18.494	7.641	10.049
14-Nov-91	08:21:44 PM	10.947	9.0343	18.87	18.487	7.6338	10.049
14-Nov-91	08:36:44 PM	10.936	9.0343	18.87	18.487	7.6374	10.041
14-Nov-91	08:51:44 PM	10.926	9.0343	18.87	18.487	7.641	10.041
14-Nov-91	09:06:44 PM	10.904	9.0234	18.863	18.487	7.6338	10.049
14-Nov-91	09:21:44 PM	10.926	9.0307	18.863	18.48	7.6338	10.049
14-Nov-91	09:36:44 PM	10.904	9.027	18.863	18.48	7.6266	10.041
14-Nov-91	09:51:44 PM	10.915	9.027	18.863	18.473	7.6266	10.034
14-Nov-91	10:06:44 PM	10.893	9.0198	18.863	18.473	7.6194	10.034
14-Nov-91	10:21:44 PM	10.915	9.027	18.863	18.473	7.623	10.034
14-Nov-91	10:36:44 PM	10.915	9.0234	18.863	18.473	7.623	10.034
14-Nov-91	10:51:44 PM	10.915	9.0162	18.863	18.466	7.6158	10.034
14-Nov-91	11:06:44 PM	10.904	9.0126	18.848	18.466	7.6122	10.041
14-Nov-91	11:36:44 PM	10.904	9.0018	18.855	18.466	7.6338	10.034
15-Nov-91	12:06:44 AM	10.893	9.0162	18.863	18.466	7.623	10.034
15-Nov-91	12:36:44 AM	10.882	9.0162	18.855	18.466	7.6158	10.034
15-Nov-91	01:06:44 AM	10.871	9.0162	18.863	18.458	7.6086	10.041
15-Nov-91	01:36:44 AM	10.871	9.009	18.855	18.451	7.6086	10.027
15-Nov-91	02:06:44 AM	10.861	9.0126	18.848	18.451	7.6122	10.034
15-Nov-91	02:36:44 AM	10.861	9.009	18.855	18.444	7.6013	10.027
15-Nov-91	03:06:44 AM	10.85	9.009	18.848	18.451	7.6013	10.034
15-Nov-91	03:36:44 AM	10.85	8.9982	18.848	18.451	7.605	10.041
15-Nov-91	04:06:44 AM	10.817	9.0054	18.848	18.437	7.5941	10.027
15-Nov-91	04:36:44 AM	10.839	8.991	18.848	18.429	7.5833	10.027
15-Nov-91	05:06:44 AM	10.85	8.991	18.841	18.429	7.5905	10.027
15-Nov-91	05:36:44 AM	10.85	8.9946	18.841	18.429	7.5905	10.027
15-Nov-91	06:06:44 AM	10.828	8.9873	18.841	18.422	7.5869	10.02
15-Nov-91	06:36:44 AM	10.839	8.9693	18.834	18.422	7.6555	10.02
15-Nov-91	07:06:44 AM	10.839	9.0018	18.834	18.429	7.3812	10.02
15-Nov-91	07:36:44 AM	10.817	9.0018	18.834	18.429	7.3884	10.02
15-Nov-91	08:06:44 AM	10.817	-2.8803	18.827	18.415	7.3992	10.012
15-Nov-91	08:36:44 AM	10.828	9.0018	18.834	18.429	7.4028	10.02
15-Nov-91	09:06:44 AM	10.839	8.991	18.834	18.422	7.3956	10.02
15-Nov-91	09:36:44 AM	10.817	8.9982	18.834	18.422	7.4064	10.027
15-Nov-91	10:06:44 AM	10.817	9.0054	18.834	18.429	7.3956	10.027
15-Nov-91	10:36:44 AM	10.806	8.9982	18.841	18.422	7.3956	10.027
15-Nov-91	11:06:44 AM	10.828	9.0198	18.848	18.429	7.41	10.027
15-Nov-91	11:36:44 AM	10.785	8.991	18.848	18.415	7.4028	10.027
15-Nov-91	12:06:44 PM	10.785	8.991	18.841	18.415	7.392	10.027
15-Nov-91	12:36:44 PM	10.817	9.0054	18.848	18.415	7.4064	10.034
15-Nov-91	01:06:44 PM	10.806	9.0162	18.848	18.422	7.4173	10.034

Date	Time	Analogue#	Analogue#	Analogue#	Analogue#	Analogue#	Analogue#
		mw-4.....ft.....	mw-11.....ft.....	mw-12.....ft.....	mw-14.....ft.....	mw-33.....ft.....	mw-41.....ft.....
15-Nov-91	01:36:44 PM	10.785	9.009	18.841	18.415	7.4137	10.027
15-Nov-91	02:06:44 PM	10.796	9.0018	18.841	18.408	7.3992	10.027
15-Nov-91	02:36:44 PM	10.774	8.9982	18.848	18.408	7.392	10.027
15-Nov-91	03:06:44 PM	10.752	8.9982	18.834	18.393	7.4245	10.02
15-Nov-91	03:36:44 PM	10.742	8.9946	18.834	18.401	7.4028	10.012
15-Nov-91	04:06:44 PM	10.752	8.9982	18.834	18.401	7.4028	10.02
15-Nov-91	04:45:18 PM	10.731	8.991	18.827	18.386	7.4064	10.012
15-Nov-91	04:45:24 PM	10.742	8.991	18.827	18.386	7.4028	10.02
15-Nov-91	04:45:28 PM	10.752	8.991	18.827	18.393	7.3848	10.02
15-Nov-91	04:45:34 PM	10.742	8.991	18.827	18.386	7.392	10.02
15-Nov-91	04:45:38 PM	10.731	8.991	18.834	18.386	7.392	10.012
15-Nov-91	04:45:44 PM	10.742	8.991	18.827	18.386	7.3812	10.012
15-Nov-91	04:45:48 PM	10.731	8.991	18.834	18.386	7.392	10.012
15-Nov-91	04:45:53 PM	10.742	8.991	18.827	18.386	7.3884	10.02
15-Nov-91	04:45:59 PM	10.742	8.9873	18.834	18.386	7.3884	10.02
15-Nov-91	04:46:03 PM	10.752	8.9946	18.834	18.386	7.3812	10.02
15-Nov-91	04:46:09 PM	10.742	8.9873	18.834	18.386	7.3992	10.012
15-Nov-91	04:46:13 PM	10.763	8.9873	18.834	18.386	7.392	10.02
15-Nov-91	04:46:19 PM	10.742	8.9946	18.827	18.386	7.3848	10.012
15-Nov-91	04:46:23 PM	10.731	8.9946	18.827	18.386	7.392	10.012
15-Nov-91	04:46:28 PM	10.742	8.991	18.834	18.429	7.3848	10.012
15-Nov-91	04:46:34 PM	10.731	8.9946	18.834	18.408	7.3812	10.012
15-Nov-91	04:46:38 PM	10.763	8.9946	18.834	18.401	7.3884	10.02
15-Nov-91	04:46:44 PM	10.731	8.9946	18.827	18.393	7.4028	10.012
15-Nov-91	04:46:48 PM	10.742	8.9946	18.834	18.401	7.4064	10.012
15-Nov-91	04:46:54 PM	10.752	8.991	18.834	18.415	7.4028	10.012
15-Nov-91	04:46:58 PM	10.752	8.9946	18.827	18.393	7.4209	10.012
15-Nov-91	04:47:03 PM	10.731	8.9946	18.834	18.357	7.3884	10.02
15-Nov-91	04:47:09 PM	10.752	8.9982	18.834	18.372	7.3884	10.02
15-Nov-91	04:47:13 PM	10.742	8.9982	18.827	18.372	7.3848	10.02
15-Nov-91	04:47:19 PM	10.752	9.0018	18.834	18.379	7.3848	10.012
15-Nov-91	04:47:23 PM	10.72	8.9982	18.834	18.386	7.3848	10.02
15-Nov-91	04:47:29 PM	10.731	8.9982	18.827	18.386	7.3884	10.02
15-Nov-91	04:47:33 PM	10.731	8.9946	18.834	18.386	7.3848	10.012
15-Nov-91	04:47:38 PM	10.731	8.9982	18.834	18.393	7.3956	10.02
15-Nov-91	04:47:44 PM	10.742	8.9946	18.834	18.386	7.3992	10.02
15-Nov-91	04:47:48 PM	10.752	8.9946	18.834	18.386	7.3884	10.012
15-Nov-91	04:47:54 PM	10.742	8.9982	18.827	18.386	7.3884	10.02
15-Nov-91	04:47:58 PM	10.742	9.0054	18.834	18.393	7.4028	10.012
15-Nov-91	04:48:04 PM	10.742	8.9982	18.834	18.393	7.392	10.012
15-Nov-91	04:48:08 PM	10.742	8.9946	18.834	18.379	7.3992	10.02
15-Nov-91	04:48:13 PM	10.763	8.9946	18.834	18.393	7.3992	10.012
15-Nov-91	04:48:19 PM	10.742	8.9946	18.827	18.386	7.3776	10.012
15-Nov-91	04:48:23 PM	10.742	8.9946	18.834	18.386	7.392	10.012
15-Nov-91	04:48:29 PM	10.742	8.9946	18.834	18.393	7.3884	10.02
15-Nov-91	04:48:33 PM	10.742	8.9946	18.834	18.386	7.4028	10.02
15-Nov-91	04:48:39 PM	10.742	8.9946	18.827	18.386	7.4064	10.012
15-Nov-91	04:48:43 PM	10.731	8.9946	18.834	18.386	7.4064	10.012
15-Nov-91	04:48:48 PM	10.742	8.9946	18.834	18.386	7.3992	10.012
15-Nov-91	04:48:54 PM	10.742	8.991	18.834	18.386	7.3992	10.02
15-Nov-91	04:48:58 PM	10.731	8.991	18.827	18.386	7.4064	10.012
15-Nov-91	04:49:04 PM	10.731	8.991	18.827	18.386	7.392	10.012

Date	Time	Analogue#	Analogue#	Analogue#	Analogue#	Analogue#	Analogue#
		mw-4.....ft.....	mw-11.....ft.....	mw-12.....ft.....	mw-14.....ft.....	mw-33.....ft.....	mw-41.....ft.....
15-Nov-91	04:49:08 PM	10.742	8.9946	18.827	18.386	7.3884	10.012
15-Nov-91	04:49:14 PM	10.731	8.991	18.827	18.386	7.3956	10.012
15-Nov-91	04:49:18 PM	10.742	8.991	18.827	18.386	7.3956	10.012
15-Nov-91	04:49:23 PM	10.742	8.991	18.827	18.393	7.4064	10.012
15-Nov-91	04:49:29 PM	10.752	8.991	18.834	18.386	7.3812	10.012
15-Nov-91	04:49:33 PM	10.752	8.991	18.834	18.386	7.392	10.012
15-Nov-91	04:49:39 PM	10.731	8.9946	18.827	18.386	7.4028	10.012
15-Nov-91	04:49:43 PM	10.752	8.991	18.827	18.386	7.4028	10.012
15-Nov-91	04:49:49 PM	10.731	8.991	18.827	18.386	7.3956	10.012
15-Nov-91	04:49:53 PM	10.742	8.9946	18.834	18.386	7.3956	10.012
15-Nov-91	04:49:58 PM	10.731	8.9982	18.827	18.386	7.3956	10.012
15-Nov-91	04:50:04 PM	10.731	8.9946	18.827	18.386	7.3992	10.012
15-Nov-91	04:50:08 PM	10.731	8.9946	18.827	18.386	7.392	10.012
15-Nov-91	04:50:14 PM	10.731	8.9946	18.827	18.386	7.4028	10.012
15-Nov-91	04:50:18 PM	10.752	8.9946	18.834	18.386	7.392	10.012
15-Nov-91	04:50:24 PM	10.742	8.991	18.834	18.386	7.3776	10.012
15-Nov-91	04:50:28 PM	10.742	8.991	18.834	18.386	7.3992	10.012
15-Nov-91	04:50:33 PM	10.742	8.9946	18.834	18.386	7.3884	10.012
15-Nov-91	04:50:39 PM	10.742	8.9946	18.834	18.386	7.3703	10.012
15-Nov-91	04:50:43 PM	10.752	8.9946	18.834	18.386	7.3992	10.02
15-Nov-91	04:50:49 PM	10.731	8.9946	18.827	18.386	7.392	10.02
15-Nov-91	04:50:53 PM	10.731	8.9982	18.834	18.386	7.392	10.012
15-Nov-91	04:50:59 PM	10.763	8.9946	18.834	18.386	7.3812	10.012
15-Nov-91	04:51:03 PM	10.742	8.9946	18.834	18.386	7.392	10.012
15-Nov-91	04:51:08 PM	10.752	8.9946	18.827	18.386	7.4028	10.012
15-Nov-91	04:51:14 PM	10.752	8.9946	18.834	18.386	7.4028	10.012
15-Nov-91	04:51:18 PM	10.752	8.9982	18.834	18.386	7.3956	10.012
15-Nov-91	04:51:24 PM	10.742	8.9946	18.834	18.386	7.3848	10.02
15-Nov-91	04:51:28 PM	10.742	8.9946	18.827	18.386	7.3992	10.012
15-Nov-91	04:51:34 PM	10.742	8.9982	18.827	18.386	7.3992	10.012
15-Nov-91	04:51:38 PM	10.742	8.9982	18.827	18.393	7.3992	10.012
15-Nov-91	04:51:43 PM	10.752	8.9946	18.834	18.393	7.4064	10.012
15-Nov-91	04:51:49 PM	10.742	8.9946	18.827	18.386	7.392	10.012
15-Nov-91	04:51:53 PM	10.742	8.9946	18.827	18.393	7.3992	10.012
15-Nov-91	04:51:59 PM	10.742	8.9946	18.827	18.386	7.3848	10.012
15-Nov-91	04:52:03 PM	10.731	8.9982	18.834	18.393	7.4064	10.012
15-Nov-91	04:52:09 PM	10.752	9.0018	18.834	18.393	7.4064	10.012
15-Nov-91	04:52:13 PM	10.742	8.9982	18.827	18.401	7.392	10.02
15-Nov-91	04:52:18 PM	10.742	8.9982	18.827	18.393	7.4028	10.012
15-Nov-91	04:52:24 PM	10.742	8.9982	18.834	18.386	7.3992	10.012
15-Nov-91	04:52:28 PM	10.752	9.0018	18.827	18.386	7.3992	10.012
15-Nov-91	04:52:34 PM	10.742	8.9946	18.834	18.386	7.4028	10.012
15-Nov-91	04:52:38 PM	10.752	8.9982	18.827	18.393	7.4028	10.012
15-Nov-91	04:52:44 PM	10.742	8.9982	18.827	18.386	7.3992	10.012
15-Nov-91	04:52:48 PM	10.742	8.9946	18.827	18.386	7.3812	10.02
15-Nov-91	04:52:53 PM	10.752	8.9946	18.834	18.393	7.3956	10.012
15-Nov-91	04:52:59 PM	10.742	8.9946	18.834	18.386	7.4064	10.012
15-Nov-91	04:53:03 PM	10.752	8.9946	18.827	18.386	7.392	10.012
15-Nov-91	04:53:09 PM	10.752	8.991	18.827	18.386	7.3884	10.012
15-Nov-91	04:53:13 PM	10.742	8.991	18.827	18.386	7.3956	10.012
15-Nov-91	04:53:19 PM	10.731	8.991	18.834	18.386	7.3992	10.012
15-Nov-91	04:53:23 PM	10.763	8.991	18.827	18.386	7.3992	10.012

Date	Time	Analog#	Analog#	Analog#	Analog#	Analog#	Analog#
		mm-4..... ft.....	mm-11..... ft.....	mm-12..... ft.....	mm-14..... ft.....	mm-33..... ft.....	mm-41..... ft.....
15-Nov-91	04:53:28 PM	10.742	8.991	18.834	18.386	7.392	10.012
15-Nov-91	04:53:34 PM	10.742	8.991	18.834	18.386	7.4028	10.012
15-Nov-91	04:53:38 PM	10.752	8.9946	18.827	18.386	7.4028	10.012
15-Nov-91	04:53:44 PM	10.763	8.991	18.827	18.386	7.4064	10.012
15-Nov-91	04:53:48 PM	10.752	8.9946	18.834	18.386	7.392	10.012
15-Nov-91	04:53:54 PM	10.731	8.991	18.834	18.386	7.3776	10.012
15-Nov-91	04:53:58 PM	10.752	8.991	18.827	18.386	7.3884	10.012
15-Nov-91	04:54:03 PM	10.731	8.9946	18.827	18.386	7.3812	10.012
15-Nov-91	04:54:09 PM	10.752	8.991	18.827	18.386	7.392	10.012
15-Nov-91	04:54:13 PM	10.752	8.991	18.827	18.386	7.3884	10.005
15-Nov-91	04:54:19 PM	10.72	8.991	18.834	18.393	7.3992	10.012
15-Nov-91	04:54:23 PM	10.742	8.991	18.827	18.386	7.3848	10.02
15-Nov-91	04:54:29 PM	10.731	8.9946	18.827	18.386	7.3956	10.012
15-Nov-91	04:54:33 PM	10.742	8.991	18.834	18.386	7.392	10.012
15-Nov-91	04:54:38 PM	10.742	8.991	18.834	18.386	7.3848	10.02
15-Nov-91	04:54:44 PM	10.763	8.991	18.827	18.393	7.3956	10.012
15-Nov-91	04:54:48 PM	10.742	8.9946	18.827	18.386	7.4028	10.012
15-Nov-91	04:54:54 PM	10.742	8.9946	18.827	18.393	7.392	10.012
15-Nov-91	04:55:44 PM	10.731	8.9946	18.834	18.386	7.3956	10.012
15-Nov-91	04:55:50 PM	10.742	8.991	18.827	18.386	7.3884	10.012
15-Nov-91	04:55:54 PM	10.742	8.991	18.834	18.393	7.41	10.012
15-Nov-91	04:55:59 PM	10.731	8.9946	18.834	18.386	7.3992	10.012
15-Nov-91	04:56:05 PM	10.752	8.9873	18.834	18.386	7.3884	10.02
15-Nov-91	04:56:09 PM	10.731	8.9837	18.827	18.386	7.3848	10.02
15-Nov-91	04:56:15 PM	10.731	8.9837	18.827	18.386	7.392	10.012
15-Nov-91	04:56:19 PM	10.742	8.9801	18.834	18.393	7.3848	10.012
15-Nov-91	04:56:25 PM	10.731	8.9801	18.834	18.386	7.3812	10.012
15-Nov-91	04:56:29 PM	10.731	8.9801	18.834	18.386	7.374	10.02
15-Nov-91	04:56:34 PM	10.742	8.9801	18.834	18.386	7.374	10.012
15-Nov-91	04:56:40 PM	10.731	8.9801	18.827	18.393	7.392	10.012
15-Nov-91	04:56:44 PM	10.752	8.9801	18.827	18.386	7.3812	10.012
15-Nov-91	04:56:50 PM	10.731	8.9801	18.827	18.386	7.3884	10.012
15-Nov-91	04:56:54 PM	10.742	8.9801	18.827	18.386	7.3848	10.012
15-Nov-91	04:57:00 PM	10.742	8.9837	18.827	18.386	7.3812	10.012
15-Nov-91	04:57:04 PM	10.742	8.9837	18.827	18.386	7.392	10.012
15-Nov-91	04:57:09 PM	10.731	8.9801	18.827	18.386	7.3884	10.012
15-Nov-91	04:57:15 PM	10.72	8.9837	18.834	18.386	7.3884	10.012
15-Nov-91	04:57:19 PM	10.742	8.9837	18.827	18.386	7.3848	10.012
15-Nov-91	04:57:25 PM	10.742	8.9873	18.827	18.386	7.3992	10.012
15-Nov-91	04:57:29 PM	15.365	8.991	18.834	18.393	7.3776	10.012
15-Nov-91	04:57:35 PM	16.708	8.991	18.834	18.408	7.392	10.012
15-Nov-91	04:57:39 PM	17.325	8.9873	18.834	18.437	7.4028	10.012
15-Nov-91	04:57:44 PM	17.639	8.991	18.834	18.466	7.3956	10.012
15-Nov-91	04:57:50 PM	17.791	8.991	18.834	18.487	7.392	10.012
15-Nov-91	04:57:54 PM	17.888	8.991	18.834	18.509	7.4028	10.012
15-Nov-91	04:58:00 PM	17.964	8.991	18.834	18.531	7.41	10.005
15-Nov-91	04:58:04 PM	18.007	8.991	18.834	18.538	7.4064	10.012
15-Nov-91	04:58:10 PM	18.05	8.9946	18.834	18.567	7.3992	10.005
15-Nov-91	04:58:14 PM	18.094	8.991	18.834	18.574	7.4028	10.005
15-Nov-91	04:58:19 PM	18.137	8.991	18.834	18.574	7.392	10.005
15-Nov-91	04:58:25 PM	18.159	8.9873	18.834	18.588	7.3848	10.005
15-Nov-91	04:58:29 PM	18.18	8.9873	18.834	18.596	7.392	9.998

Date	Time	Analog#					
		mw-4.....ft.....	mw-11.....ft.....	mw-12.....ft.....	mw-14.....ft.....	mw-33.....ft.....	mw-41.....ft.....
15-Nov-91	04:58:35 PM	18.202	8.9873	18.834	18.603	7.3812	9.998
15-Nov-91	04:58:39 PM	18.224	8.991	18.834	18.61	7.3812	10.005
15-Nov-91	04:58:45 PM	18.245	8.9873	18.834	18.617	7.3812	10.012
15-Nov-91	04:58:49 PM	18.267	8.9873	18.834	18.617	7.3812	10.005
15-Nov-91	04:58:54 PM	18.289	8.9873	18.834	18.624	7.3812	10.005
15-Nov-91	04:59:00 PM	18.3	8.991	18.834	18.632	7.374	10.005
15-Nov-91	04:59:04 PM	18.31	8.991	18.834	18.639	7.3776	10.005
15-Nov-91	04:59:10 PM	18.321	8.9873	18.834	18.646	7.3812	10.012
15-Nov-91	04:59:14 PM	18.332	8.9873	18.834	18.646	7.3812	10.005
15-Nov-91	04:59:20 PM	18.354	8.9873	18.834	18.646	7.3812	10.005
15-Nov-91	04:59:24 PM	18.365	8.9837	18.834	18.653	7.3667	10.012
15-Nov-91	04:59:29 PM	18.375	8.9873	18.841	18.66	7.3667	10.012
15-Nov-91	04:59:35 PM	18.375	8.9873	18.834	18.66	7.3631	10.012
15-Nov-91	04:59:39 PM	18.386	8.991	18.841	18.668	7.3776	10.012
15-Nov-91	04:59:45 PM	18.397	8.9873	18.834	18.668	7.3776	10.012
15-Nov-91	04:59:49 PM	18.397	8.991	18.841	18.675	7.3776	10.012
15-Nov-91	04:59:55 PM	18.408	8.991	18.841	18.682	7.3956	10.012
15-Nov-91	04:59:59 PM	18.408	8.991	18.841	18.682	7.4137	10.012
15-Nov-91	05:00:04 PM	18.419	8.9946	18.841	18.689	7.4028	10.012
15-Nov-91	05:00:10 PM	18.429	8.9982	18.841	18.689	7.3992	10.012
15-Nov-91	05:00:14 PM	18.44	8.9982	18.841	18.697	7.3848	10.012
15-Nov-91	05:00:20 PM	18.44	8.9946	18.841	18.704	7.3956	10.012
15-Nov-91	05:00:24 PM	18.44	8.9982	18.841	18.704	7.4028	10.012
15-Nov-91	05:00:30 PM	18.451	9.0018	18.841	18.704	7.4028	10.012
15-Nov-91	05:00:34 PM	18.462	9.0018	18.848	18.704	7.41	10.012
15-Nov-91	05:00:39 PM	18.462	9.0018	18.848	18.711	7.41	10.012
15-Nov-91	05:00:45 PM	18.462	9.0018	18.848	18.711	7.41	10.012
15-Nov-91	05:00:49 PM	18.473	9.0018	18.841	18.711	7.3956	10.012
15-Nov-91	05:00:55 PM	18.473	9.0054	18.848	18.718	7.4173	10.012
15-Nov-91	05:00:59 PM	18.484	9.0018	18.848	18.718	7.4209	10.012
15-Nov-91	05:01:05 PM	18.484	9.0054	18.848	18.718	7.41	10.012
15-Nov-91	05:01:09 PM	18.494	9.0054	18.848	18.725	7.4317	10.012
15-Nov-91	05:01:14 PM	18.494	9.009	18.848	18.725	7.4317	10.012
15-Nov-91	05:01:20 PM	18.505	9.0054	18.848	18.74	7.4173	10.012
15-Nov-91	05:01:24 PM	18.494	9.009	18.848	18.74	7.4353	10.012
15-Nov-91	05:01:30 PM	18.505	9.0126	18.848	18.733	7.4317	10.012
15-Nov-91	05:01:34 PM	18.505	9.009	18.848	18.733	7.4209	10.012
15-Nov-91	05:01:40 PM	18.505	9.0126	18.848	18.733	7.4353	10.012
15-Nov-91	05:01:44 PM	18.516	9.009	18.848	18.74	7.4317	10.012
15-Nov-91	05:01:49 PM	18.516	9.0126	18.848	18.747	7.4281	10.012
15-Nov-91	05:01:55 PM	18.516	9.0126	18.848	18.747	7.4245	10.02
15-Nov-91	05:01:59 PM	18.527	9.0126	18.848	18.747	7.4209	10.012
15-Nov-91	05:02:05 PM	18.527	9.0126	18.855	18.747	7.4317	10.012
15-Nov-91	05:02:09 PM	18.527	9.0126	18.848	18.747	7.4245	10.012
15-Nov-91	05:02:15 PM	18.527	9.0126	18.855	18.747	7.4317	10.02
15-Nov-91	05:02:19 PM	18.538	9.0126	18.855	18.747	7.4317	10.012
15-Nov-91	05:02:24 PM	18.538	9.0126	18.855	18.747	7.4281	10.012
15-Nov-91	05:02:30 PM	18.549	9.0126	18.855	18.762	7.4389	10.012
15-Nov-91	05:02:34 PM	18.549	9.0126	18.855	18.754	7.4173	10.012
15-Nov-91	05:02:40 PM	18.549	9.0162	18.855	18.762	7.41	10.012
15-Nov-91	05:02:44 PM	18.549	9.0162	18.855	18.762	7.4137	10.012
15-Nov-91	05:02:49 PM	18.549	9.0162	18.855	18.762	7.4173	10.012

Date	Time	Analog#					
		mw-4.....ft.....	mw-11.....ft.....	mw-12.....ft.....	mw-14.....ft.....	mw-33.....ft.....	mw-41.....ft.....
15-Nov-91	05:02:55 PM	18.549	9.0126	18.863	18.762	7.4028	10.012
15-Nov-91	05:02:59 PM	18.559	9.0234	18.863	18.769	7.4209	10.02
15-Nov-91	05:03:05 PM	18.559	9.0198	18.855	18.762	7.4245	10.012
15-Nov-91	05:03:09 PM	18.57	9.0198	18.855	18.762	7.4281	10.012
15-Nov-91	05:03:15 PM	18.559	9.0162	18.855	18.776	7.4245	10.012
15-Nov-91	05:03:19 PM	18.57	9.0198	18.855	18.776	7.4317	10.012
15-Nov-91	05:03:24 PM	18.57	9.0198	18.863	18.762	7.4064	10.02
15-Nov-91	05:03:30 PM	18.57	9.0162	18.863	18.762	7.4028	10.012
15-Nov-91	05:03:34 PM	18.57	9.0126	18.863	18.769	7.4137	10.02
15-Nov-91	05:03:40 PM	18.57	9.0162	18.863	18.776	7.4173	10.012
15-Nov-91	05:03:44 PM	18.581	9.0162	18.863	18.776	7.4137	10.012
15-Nov-91	05:03:50 PM	18.581	9.0162	18.863	18.776	7.41	10.012
15-Nov-91	05:03:54 PM	18.581	9.0162	18.863	18.776	7.4137	10.012
15-Nov-91	05:03:59 PM	18.592	9.0198	18.863	18.776	7.4209	10.02
15-Nov-91	05:04:05 PM	18.581	9.0162	18.863	18.776	7.41	10.02
15-Nov-91	05:04:09 PM	18.592	9.0162	18.863	18.783	7.4245	10.012
15-Nov-91	05:04:15 PM	18.592	9.0162	18.863	18.783	7.4137	10.012
15-Nov-91	05:04:19 PM	18.592	9.0198	18.863	18.79	7.4281	10.012
15-Nov-91	05:04:25 PM	18.592	9.0198	18.87	18.783	7.4137	10.012
15-Nov-91	05:04:29 PM	18.592	9.0198	18.863	18.79	7.4173	10.02
15-Nov-91	05:04:34 PM	18.592	9.0162	18.87	18.783	7.4173	10.02
15-Nov-91	05:04:40 PM	18.592	9.0234	18.863	18.79	7.4245	10.02
15-Nov-91	05:04:44 PM	18.603	9.0162	18.863	18.79	7.4209	10.02
15-Nov-91	05:04:50 PM	18.603	9.0234	18.87	18.79	7.4245	10.02
15-Nov-91	05:04:54 PM	18.603	9.0198	18.87	18.79	7.4173	10.02
15-Nov-91	05:05:00 PM	18.603	9.0198	18.87	18.798	7.4389	10.02
15-Nov-91	05:05:04 PM	18.603	9.0198	18.87	18.798	7.4245	10.02
15-Nov-91	05:05:09 PM	18.614	9.0198	18.877	18.798	7.4245	10.02
15-Nov-91	05:05:15 PM	18.614	9.0198	18.863	18.798	7.4281	10.02
15-Nov-91	05:05:19 PM	18.614	9.0234	18.863	18.798	7.4425	10.02
15-Nov-91	05:05:25 PM	18.614	9.009	18.863	18.798	7.605	10.02
15-Nov-91	05:05:29 PM	18.614	9.009	18.863	18.805	7.605	10.02
15-Nov-91	05:05:35 PM	18.614	9.0126	18.87	18.798	7.6013	10.027
15-Nov-91	05:05:39 PM	18.614	9.0126	18.863	18.805	7.605	10.012
15-Nov-91	05:05:44 PM	18.614	9.0126	18.87	18.805	7.6013	10.027
15-Nov-91	05:06:14 PM	18.624	9.0162	18.87	18.805	7.6194	10.02
15-Nov-91	05:06:44 PM	18.624	9.009	18.87	18.819	7.6158	10.027
15-Nov-91	05:07:14 PM	18.635	9.009	18.877	18.812	7.6158	10.027
15-Nov-91	05:07:44 PM	18.635	9.009	18.877	18.834	7.6194	10.027
15-Nov-91	05:08:14 PM	18.646	9.0162	18.877	18.827	7.623	10.027
15-Nov-91	05:08:44 PM	18.657	9.0162	18.877	18.834	7.6158	10.027
15-Nov-91	05:09:14 PM	18.668	9.0162	18.884	18.841	7.6194	10.027
15-Nov-91	05:09:44 PM	18.668	9.0234	18.891	18.834	7.623	10.027
15-Nov-91	05:10:14 PM	18.668	9.027	18.877	18.841	7.6266	10.034
15-Nov-91	05:10:44 PM	18.679	9.0307	18.884	18.841	7.6302	10.034
15-Nov-91	05:11:14 PM	18.679	9.027	18.891	18.848	7.6194	10.034
15-Nov-91	05:11:44 PM	18.679	9.027	18.891	18.855	7.6086	10.034
15-Nov-91	05:12:14 PM	18.689	9.0307	18.891	18.855	7.6194	10.034
15-Nov-91	05:12:44 PM	18.689	9.027	18.891	18.863	7.6086	10.034
15-Nov-91	05:13:14 PM	18.689	9.0198	18.891	18.855	7.6158	10.034
15-Nov-91	05:13:44 PM	18.7	9.0162	18.891	18.863	7.6013	10.034
15-Nov-91	05:14:14 PM	18.7	9.0126	18.891	18.863	7.605	10.034

Date	Time	Analogue#	Analogue#	Analogue#	Analogue#	Analogue#	Analogue#
		mw-4.....ft.....	mw-11.....ft.....	mw-12.....ft.....	mw-14.....ft.....	mw-33.....ft.....	mw-41.....ft.....
15-Nov-91	05:14:44 PM	18.7	9.0198	18.899	18.863	7.6122	10.034
15-Nov-91	05:15:14 PM	18.7	9.0234	18.891	18.863	7.6194	10.041
15-Nov-91	05:15:44 PM	18.7	9.0234	18.891	18.87	7.6158	10.041
15-Nov-91	05:16:14 PM	18.711	9.027	18.891	18.87	7.6194	10.041
15-Nov-91	05:16:44 PM	18.722	9.027	18.891	18.877	7.6194	10.041
15-Nov-91	05:17:14 PM	18.722	9.027	18.899	18.877	7.623	10.041
15-Nov-91	05:17:44 PM	18.722	9.027	18.899	18.877	7.6266	10.041
15-Nov-91	05:18:14 PM	18.722	9.0307	18.899	18.891	7.6266	10.041
15-Nov-91	05:18:44 PM	18.722	9.0307	18.899	18.877	7.6266	10.041
15-Nov-91	05:19:14 PM	18.722	9.0307	18.899	18.891	7.6266	10.041
15-Nov-91	05:19:44 PM	18.733	9.0379	18.906	18.891	7.6374	10.041
15-Nov-91	05:20:14 PM	18.733	9.0343	18.899	18.891	7.6447	10.041
15-Nov-91	05:20:44 PM	18.733	9.0343	18.899	18.891	7.6338	10.041
15-Nov-91	05:21:14 PM	18.733	9.0415	18.899	18.891	7.641	10.041
15-Nov-91	05:21:44 PM	18.733	9.0343	18.906	18.899	7.641	10.041
15-Nov-91	05:22:14 PM	18.743	9.0415	18.899	18.899	7.6483	10.049
15-Nov-91	05:22:44 PM	18.743	9.0415	18.906	18.899	7.6519	10.049
15-Nov-91	05:23:14 PM	18.743	9.0415	18.906	18.906	7.6483	10.049
15-Nov-91	05:23:44 PM	18.754	9.0451	18.906	18.906	7.6555	10.056
15-Nov-91	05:24:14 PM	18.754	9.0523	18.906	18.906	7.6591	10.056
15-Nov-91	05:24:44 PM	18.754	9.0523	18.906	18.913	7.6591	10.056
15-Nov-91	05:25:14 PM	18.754	9.0559	18.906	18.913	7.6591	10.056
15-Nov-91	05:25:44 PM	18.765	9.0668	18.906	18.913	7.6663	10.056
15-Nov-91	05:26:14 PM	18.765	9.0668	18.906	18.92	7.6483	10.056
15-Nov-91	05:26:44 PM	18.765	9.0559	18.913	18.92	7.6447	10.056
15-Nov-91	05:27:14 PM	18.765	9.0559	18.913	18.92	7.6483	10.056
15-Nov-91	05:27:44 PM	18.765	9.0523	18.913	18.92	7.6555	10.056
15-Nov-91	05:28:14 PM	18.765	9.0595	18.913	18.92	7.6555	10.056
15-Nov-91	05:28:44 PM	18.776	9.0559	18.906	18.928	7.6555	10.056
15-Nov-91	05:29:14 PM	18.765	9.0487	18.913	18.92	7.6483	10.056
15-Nov-91	05:29:44 PM	18.776	9.0487	18.913	18.928	7.641	10.056
15-Nov-91	05:30:14 PM	18.776	9.0523	18.913	18.928	7.641	10.056
15-Nov-91	05:30:44 PM	18.776	9.0487	18.92	18.928	7.6447	10.056
15-Nov-91	05:31:14 PM	18.787	9.0487	18.913	18.935	7.6374	10.056
15-Nov-91	05:31:44 PM	18.787	9.0523	18.92	18.935	7.6483	10.056
15-Nov-91	05:32:14 PM	18.787	9.0487	18.913	18.935	7.6374	10.056
15-Nov-91	05:32:44 PM	18.787	9.0451	18.92	18.935	7.6447	10.063
15-Nov-91	05:33:14 PM	18.787	9.0487	18.92	18.935	7.641	10.063
15-Nov-91	05:33:44 PM	18.787	9.0487	18.92	18.935	7.6483	10.063
15-Nov-91	05:34:14 PM	18.787	9.0451	18.92	18.942	7.6447	10.063
15-Nov-91	05:34:44 PM	18.787	9.0487	18.92	18.942	7.6374	10.056
15-Nov-91	05:35:14 PM	18.787	9.0451	18.92	18.942	7.6483	10.056
15-Nov-91	05:35:44 PM	18.798	9.0487	18.92	18.942	7.6338	10.063
15-Nov-91	05:36:14 PM	18.798	9.0559	18.92	18.949	7.6483	10.063
15-Nov-91	05:36:44 PM	18.798	9.0523	18.92	18.949	7.6519	10.063
15-Nov-91	05:37:14 PM	18.808	9.0523	18.92	18.949	7.6447	10.07
15-Nov-91	05:37:44 PM	18.798	9.0487	18.928	18.956	7.6519	10.063
15-Nov-91	05:38:14 PM	18.808	9.0595	18.928	18.956	7.6555	10.063
15-Nov-91	05:38:44 PM	18.808	9.0595	18.92	18.956	7.6447	10.063
15-Nov-91	05:39:14 PM	18.808	9.0631	18.928	18.956	7.6519	10.063
15-Nov-91	05:39:44 PM	18.808	9.0704	18.928	18.964	7.6663	10.07
15-Nov-91	05:40:14 PM	18.808	9.0704	18.928	18.964	7.6627	10.07

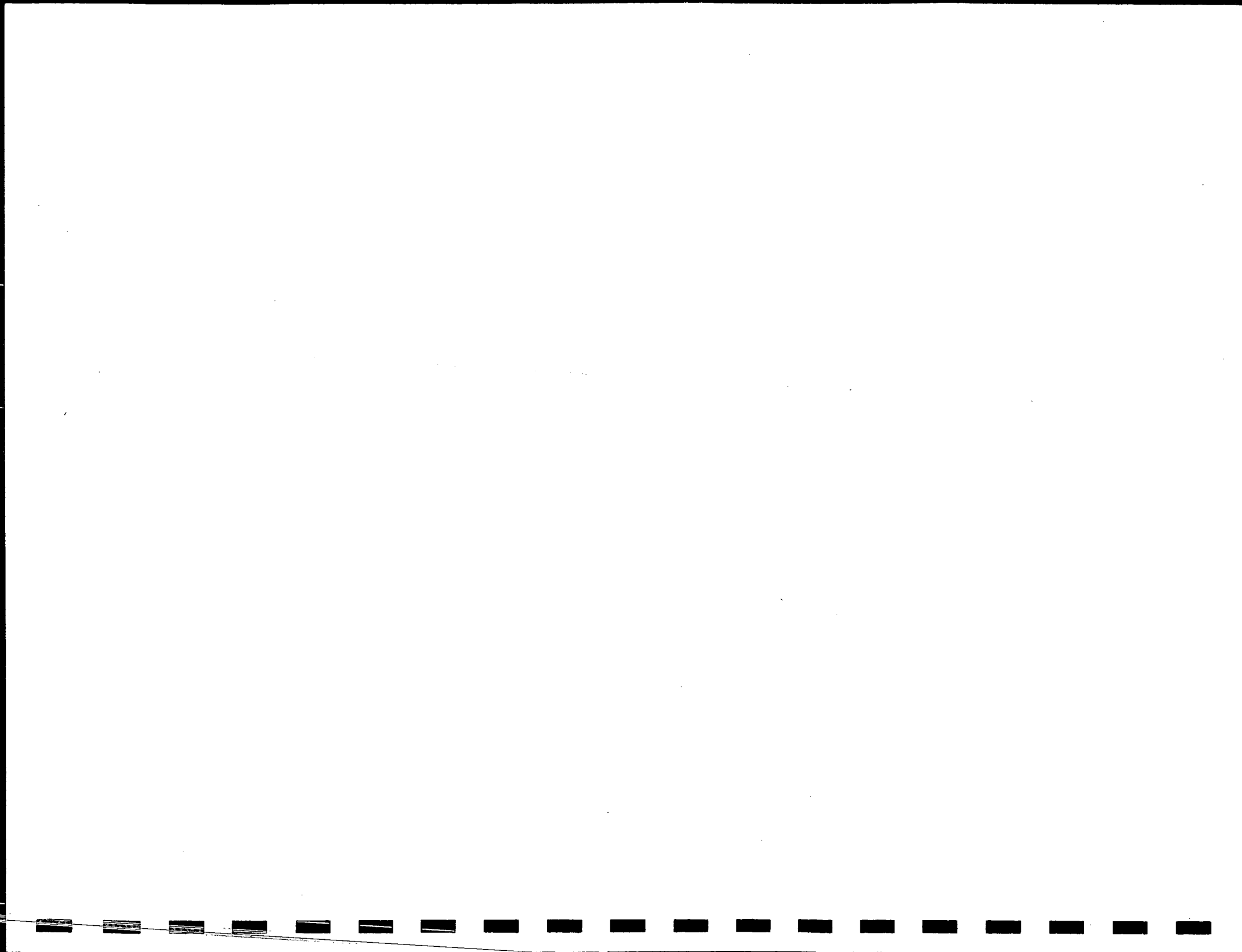
Date	Time	Analog#					
		mw-4.....ft.....	mw-11.....ft.....	mw-12.....ft.....	mw-14.....ft.....	mw-33.....ft.....	mw-41.....ft.....
15-Nov-91	05:40:44 PM	18.808	9.0704	18.935	18.964	7.6663	10.07
15-Nov-91	05:41:14 PM	18.808	9.0631	18.935	18.964	7.6555	10.07
15-Nov-91	05:41:44 PM	18.808	9.0668	18.92	18.964	7.6555	10.07
15-Nov-91	05:42:14 PM	18.819	9.0668	18.935	18.964	7.6627	10.07
15-Nov-91	05:42:44 PM	18.819	9.0704	18.935	18.964	7.6699	10.07
15-Nov-91	05:43:14 PM	18.819	9.074	18.935	18.964	7.6735	10.07
15-Nov-91	05:43:44 PM	18.819	9.0776	18.935	18.971	7.6663	10.07
15-Nov-91	05:44:14 PM	18.819	9.074	18.935	18.964	7.6663	10.07
15-Nov-91	05:44:44 PM	18.819	9.0776	18.935	18.964	7.6699	10.07
15-Nov-91	05:45:14 PM	18.819	9.0776	18.928	18.964	7.6663	10.07
15-Nov-91	05:45:44 PM	18.819	9.0776	18.935	18.964	7.6699	10.07
15-Nov-91	05:46:14 PM	18.819	9.0776	18.935	18.964	7.6699	10.07
15-Nov-91	05:46:44 PM	18.819	9.074	18.935	18.964	7.6699	10.07
15-Nov-91	05:47:14 PM	18.819	9.074	18.935	18.964	7.6735	10.07
15-Nov-91	05:47:44 PM	18.819	9.074	18.935	18.971	7.6699	10.07
15-Nov-91	05:48:14 PM	18.819	9.074	18.935	18.971	7.6771	10.07
15-Nov-91	05:48:44 PM	18.819	9.0776	18.935	18.971	7.6771	10.07
15-Nov-91	05:49:14 PM	18.819	9.0812	18.935	18.971	7.6771	10.07
15-Nov-91	05:49:44 PM	18.819	9.0812	18.935	18.971	7.6699	10.07
15-Nov-91	05:50:14 PM	18.819	9.0776	18.935	18.971	7.6699	10.07
15-Nov-91	05:50:44 PM	18.819	9.0812	18.935	18.971	7.6735	10.077
15-Nov-91	05:51:14 PM	18.83	9.0848	18.935	18.971	7.6808	10.07
15-Nov-91	05:51:44 PM	18.83	9.0848	18.935	18.978	7.6808	10.077
15-Nov-91	05:52:14 PM	18.83	9.0884	18.935	18.978	7.6844	10.07
15-Nov-91	05:52:44 PM	18.83	9.0848	18.935	18.971	7.6771	10.077
15-Nov-91	05:53:14 PM	18.83	9.0776	18.935	18.978	7.6735	10.07
15-Nov-91	05:53:44 PM	18.83	9.0776	18.935	18.978	7.6735	10.077
15-Nov-91	05:54:14 PM	18.83	9.0812	18.935	18.978	7.6735	10.077
15-Nov-91	05:54:44 PM	18.83	9.0812	18.935	18.978	7.6735	10.077
15-Nov-91	05:55:14 PM	18.841	9.0812	18.935	18.978	7.6699	10.07
15-Nov-91	05:55:45 PM	18.83	9.0776	18.935	18.978	7.6699	10.07
15-Nov-91	05:56:44 PM	18.83	9.0812	18.942	18.978	7.6771	10.07
15-Nov-91	05:57:44 PM	18.841	9.0884	18.935	18.978	7.6735	10.07
15-Nov-91	05:58:44 PM	18.841	9.0884	18.935	18.978	7.6808	10.07
15-Nov-91	05:59:44 PM	18.841	9.0956	18.935	18.978	7.6771	10.077
15-Nov-91	06:00:44 PM	18.841	9.0956	18.942	18.985	7.6916	10.07
15-Nov-91	06:01:44 PM	18.852	9.0956	18.942	18.985	7.706	10.077
15-Nov-91	06:02:44 PM	18.852	9.092	18.935	18.985	7.6988	10.077
15-Nov-91	06:03:44 PM	18.852	9.0848	18.942	18.985	7.6952	10.077
15-Nov-91	06:04:44 PM	18.852	9.0884	18.942	18.985	7.6916	10.077
15-Nov-91	06:05:44 PM	18.841	9.0848	18.942	18.993	7.6916	10.077
15-Nov-91	06:06:44 PM	18.852	9.092	18.942	18.993	7.6952	10.077
15-Nov-91	06:07:44 PM	18.852	9.0884	18.935	18.993	7.688	10.077
15-Nov-91	06:08:44 PM	18.852	9.092	18.942	18.993	7.6952	10.077
15-Nov-91	06:09:44 PM	18.852	9.0848	18.942	18.993	7.6844	10.07
15-Nov-91	06:10:44 PM	18.852	9.0884	18.942	18.993	7.688	10.077
15-Nov-91	06:11:44 PM	18.852	9.0956	18.942	18.993	7.6916	10.077
15-Nov-91	06:12:44 PM	18.852	9.0992	18.949	18.993	7.7024	10.077
15-Nov-91	06:13:44 PM	18.852	9.0956	18.942	18.993	7.7024	10.077
15-Nov-91	06:14:44 PM	18.852	9.092	18.942	18.993	7.6952	10.07
15-Nov-91	06:15:44 PM	18.852	9.0884	18.942	18.993	7.6844	10.077
15-Nov-91	06:16:44 PM	18.852	-2.8767	18.935	18.993	7.6916	10.077

Date	Time	Analog#					
		mm-4.....ft.....	mm-11.....ft.....	mm-12.....ft.....	mm-14.....ft.....	mm-33.....ft.....	mm-41.....ft.....
15-Nov-91	06:17:44 PM	18.852	9.092	18.942	18.993	7.6952	10.077
15-Nov-91	06:18:44 PM	18.852	-2.8767	18.942	18.985	7.6988	10.077
15-Nov-91	06:19:44 PM	18.852	9.0956	18.949	18.993	7.6952	10.077
15-Nov-91	06:20:44 PM	18.852	9.0992	18.942	19	7.7024	10.077
15-Nov-91	06:21:44 PM	18.863	9.0992	18.949	19	7.6952	10.077
15-Nov-91	06:22:44 PM	18.863	9.0992	18.942	19	7.706	10.077
15-Nov-91	06:23:44 PM	18.863	9.1028	18.949	19	7.6988	10.077
15-Nov-91	06:24:44 PM	18.863	9.0992	18.949	19.007	7.706	10.077
15-Nov-91	06:25:44 PM	18.873	9.1065	18.949	19.007	7.7096	10.077
15-Nov-91	06:26:44 PM	18.863	9.1065	18.949	19.007	7.706	10.077
15-Nov-91	06:27:44 PM	18.873	9.1101	18.949	19.007	7.7096	10.077
15-Nov-91	06:28:44 PM	18.873	9.1173	18.949	19.007	7.7168	10.077
15-Nov-91	06:29:44 PM	18.863	-2.8767	18.942	19.007	7.7132	10.077
15-Nov-91	06:30:44 PM	18.863	-2.8767	18.942	19.007	7.7168	10.077
15-Nov-91	06:31:44 PM	18.873	-2.8803	18.942	19.007	7.7096	10.085
15-Nov-91	06:32:44 PM	18.863	-2.8803	18.942	19.007	7.7168	10.077
15-Nov-91	06:33:44 PM	18.863	-2.8767	18.942	19.007	7.7168	10.085
15-Nov-91	06:34:44 PM	18.873	-2.8803	18.942	19.007	7.7168	10.085
15-Nov-91	06:35:44 PM	18.873	-2.8767	18.942	19.007	7.7205	10.077
15-Nov-91	06:36:44 PM	18.863	-2.8767	18.942	19.014	7.7132	10.077
15-Nov-91	06:37:44 PM	18.873	-2.8767	18.942	19.007	7.7132	10.077
15-Nov-91	06:38:44 PM	18.873	-2.8767	18.942	19.014	7.7168	10.077
15-Nov-91	06:39:44 PM	18.873	-2.8767	18.942	19.014	7.7168	10.077
15-Nov-91	06:40:44 PM	18.884	-2.8767	18.942	19.014	7.7168	10.077
15-Nov-91	06:41:44 PM	18.884	-2.8767	18.942	19.014	7.7205	10.077
15-Nov-91	06:42:44 PM	18.884	-2.8767	18.949	19.021	7.7205	10.077
15-Nov-91	06:43:44 PM	18.884	-2.8767	18.942	19.021	7.7205	10.085
15-Nov-91	06:44:44 PM	18.884	-2.8767	18.949	19.021	7.7205	10.085
15-Nov-91	06:45:44 PM	18.873	-2.8767	18.942	19.021	7.7168	10.085
15-Nov-91	06:46:44 PM	18.884	-2.8767	18.942	19.021	7.7096	10.077
15-Nov-91	06:47:44 PM	18.873	-2.8767	18.942	19.021	7.7168	10.085
15-Nov-91	06:48:44 PM	18.884	-2.8767	18.949	19.021	7.7205	10.085
15-Nov-91	06:49:44 PM	18.873	-2.8767	18.942	19.014	7.7168	10.085
15-Nov-91	06:50:44 PM	18.884	-2.8767	18.942	19.021	7.7132	10.077
15-Nov-91	06:51:44 PM	18.884	-2.8767	18.942	19.021	7.706	10.077
15-Nov-91	06:52:44 PM	18.884	-2.8767	18.942	19.021	7.706	10.085
15-Nov-91	06:53:44 PM	18.895	-2.8767	18.942	19.021	7.706	10.085
15-Nov-91	06:54:44 PM	18.895	-2.8767	18.942	19.029	7.7096	10.085
15-Nov-91	06:55:44 PM	18.895	-2.8767	18.949	19.021	7.7168	10.085
15-Nov-91	07:00:44 PM	18.895	-2.8767	18.949	19.029	7.7132	10.085
15-Nov-91	07:05:44 PM	18.895	-2.8767	18.949	19.036	7.7096	10.085
15-Nov-91	07:10:44 PM	18.917	-2.8767	18.949	19.043	7.7205	10.085
15-Nov-91	07:15:44 PM	18.917	-2.8767	18.949	19.05	7.7241	10.085
15-Nov-91	07:20:44 PM	18.917	-2.8803	18.949	19.05	7.7205	10.085
15-Nov-91	07:25:44 PM	18.938	9.1389	18.956	19.065	7.7241	10.092
15-Nov-91	07:30:44 PM	18.938	9.1425	18.964	19.065	7.7168	10.092
15-Nov-91	07:35:44 PM	18.938	9.1425	18.964	19.072	7.7277	10.099
15-Nov-91	07:40:44 PM	18.938	9.1425	18.964	19.072	7.7313	10.099
15-Nov-91	07:45:44 PM	18.96	9.1353	18.964	19.079	7.7205	10.099
15-Nov-91	07:50:44 PM	18.949	9.1462	18.964	19.079	7.7385	10.099
15-Nov-91	07:55:44 PM	18.96	9.1534	18.964	19.079	7.7385	10.099
15-Nov-91	08:00:44 PM	18.96	9.157	18.971	19.086	7.7493	10.099

Date	Time	Analog# MW-4..... ft.....	Analog# MW-11..... ft.....	Analog# MW-12..... ft.....	Analog# MW-14..... ft.....	Analog# MW-33..... ft.....	Analog# MW-41..... ft.....
15-Nov-91	08:05:44 PM	18.96	9.1498	18.964	19.086	7.7385	10.099
15-Nov-91	08:10:44 PM	18.96	9.1462	18.971	19.094	7.7349	10.099
15-Nov-91	08:15:44 PM	18.96	9.157	18.964	19.086	7.7421	10.099
15-Nov-91	08:20:44 PM	18.96	9.1534	18.971	19.094	7.7421	10.099
15-Nov-91	08:25:44 PM	18.971	9.1606	18.971	19.094	7.7457	10.099
15-Nov-91	08:30:44 PM	18.982	9.1642	18.978	19.094	7.7457	10.099
15-Nov-91	08:35:44 PM	18.971	9.157	18.971	19.094	7.7457	10.099
15-Nov-91	08:40:44 PM	18.971	9.1534	18.971	19.094	7.7493	10.099
15-Nov-91	08:45:44 PM	18.971	9.157	18.971	19.101	7.7565	10.099
15-Nov-91	08:50:44 PM	18.971	9.1498	18.971	19.094	7.7385	10.099
15-Nov-91	08:55:44 PM	18.982	9.1606	18.971	19.101	7.7565	10.099
15-Nov-91	09:00:44 PM	18.982	9.1642	18.971	19.108	7.7638	10.099
15-Nov-91	09:05:44 PM	18.993	9.1678	18.971	19.108	7.7565	10.099
15-Nov-91	09:10:44 PM	18.993	9.1678	18.971	19.108	7.7529	10.099
15-Nov-91	09:15:44 PM	18.993	9.1678	18.971	19.115	7.7602	10.106
15-Nov-91	09:20:44 PM	18.993	9.1642	18.978	19.108	7.7493	10.099
15-Nov-91	09:25:44 PM	19.003	9.1606	18.978	19.115	7.7493	10.099
15-Nov-91	09:30:44 PM	19.003	9.175	18.978	19.122	7.7638	10.106
15-Nov-91	09:35:44 PM	19.003	9.175	18.978	19.122	7.7674	10.106
15-Nov-91	09:40:44 PM	19.003	9.175	18.978	19.122	7.7674	10.106
15-Nov-91	09:45:44 PM	19.003	9.1786	18.978	19.122	7.7565	10.106
15-Nov-91	09:50:44 PM	19.003	9.1606	18.978	19.122	7.7818	10.106
15-Nov-91	09:55:44 PM	19.003	9.1642	18.978	19.13	7.789	10.106
15-Nov-91	10:00:44 PM	19.014	9.1678	18.978	19.13	7.7926	10.106
15-Nov-91	10:05:44 PM	19.014	9.1642	18.978	19.137	7.7854	10.106
15-Nov-91	10:10:44 PM	19.014	9.1714	18.985	19.137	7.7999	10.113
15-Nov-91	10:15:44 PM	19.025	9.175	18.985	19.137	7.7963	10.113
15-Nov-91	10:20:44 PM	19.025	9.1714	18.985	19.137	7.7999	10.113
15-Nov-91	10:25:44 PM	19.025	9.175	18.985	19.137	7.7963	10.113
15-Nov-91	10:30:44 PM	19.025	9.1714	18.985	19.137	7.789	10.113
15-Nov-91	10:35:44 PM	19.014	9.1642	18.985	19.137	7.7818	10.113
15-Nov-91	10:40:44 PM	19.025	9.1642	18.985	19.137	7.7926	10.113
15-Nov-91	10:45:44 PM	19.025	9.1642	18.978	19.137	7.789	10.106
15-Nov-91	10:50:44 PM	19.025	9.1714	18.978	19.144	7.7926	10.106
15-Nov-91	10:55:44 PM	19.025	9.175	18.985	19.144	7.7999	10.106
15-Nov-91	11:00:44 PM	19.025	9.1642	18.978	19.137	7.789	10.106
15-Nov-91	11:05:44 PM	19.025	9.1714	18.978	19.144	7.789	10.106
15-Nov-91	11:10:44 PM	19.025	9.1714	18.978	19.144	7.789	10.106
15-Nov-91	11:15:44 PM	19.036	9.175	18.985	19.151	7.8035	10.106
15-Nov-91	11:20:44 PM	19.025	9.175	18.978	19.151	7.7999	10.106
15-Nov-91	11:25:44 PM	19.036	9.1714	18.978	19.151	7.7963	10.106
15-Nov-91	11:30:44 PM	19.047	9.1823	18.985	19.151	7.8035	10.106
15-Nov-91	11:35:44 PM	19.047	9.1823	18.985	19.159	7.8035	10.113
15-Nov-91	11:40:44 PM	19.047	9.1786	18.985	19.166	7.8107	10.106
15-Nov-91	11:45:44 PM	19.058	9.1786	18.985	19.166	7.7999	10.113
15-Nov-91	11:50:44 PM	19.047	9.1823	18.985	19.159	7.8107	10.113
15-Nov-91	11:55:45 PM	19.058	9.1859	18.985	19.166	7.8107	10.113
16-Nov-91	12:10:44 AM	19.058	9.1823	18.985	19.166	7.8107	10.113
16-Nov-91	12:25:44 AM	19.058	9.1931	18.993	19.173	7.8179	10.113
16-Nov-91	12:40:44 AM	19.058	9.1895	18.993	19.18	7.8107	10.121
16-Nov-91	12:55:44 AM	19.058	9.1931	18.993	19.18	7.8179	10.121
16-Nov-91	01:10:44 AM	19.068	9.2075	19	19.187	7.8287	10.121

Date	Time	Analog#					
		MW-4.....ft.....	MW-11.....ft.....	MW-12.....ft.....	MW-14.....ft.....	MW-33.....ft.....	MW-41.....ft.....
16-Nov-91	01:25:44 AM	19.068	9.1967	18.993	19.187	7.8215	10.121
16-Nov-91	01:40:44 AM	19.068	9.2003	19	19.187	7.8251	10.121
16-Nov-91	01:55:44 AM	19.068	9.2003	19	19.187	7.8215	10.121
16-Nov-91	02:10:44 AM	19.079	9.2039	18.993	19.195	7.8251	10.121
16-Nov-91	02:25:44 AM	19.09	9.2075	19	19.202	7.8323	10.128
16-Nov-91	02:40:44 AM	19.09	9.2183	19.007	19.209	7.8432	10.128
16-Nov-91	02:55:44 AM	19.09	9.2183	19.007	19.209	7.8396	10.128
16-Nov-91	03:10:44 AM	19.101	9.222	19.007	19.216	7.8468	10.135
16-Nov-91	03:25:44 AM	19.101	9.2256	19.014	19.216	7.8468	10.135
16-Nov-91	03:40:44 AM	19.101	9.222	19.014	19.216	7.8468	10.142
16-Nov-91	03:55:44 AM	19.101	9.222	19.014	19.216	7.8396	10.135
16-Nov-91	04:10:44 AM	19.101	9.2147	19.014	19.209	7.8396	10.135
16-Nov-91	04:25:44 AM	19.101	9.222	19.007	19.209	7.8432	10.135
16-Nov-91	04:40:44 AM	19.101	9.2183	19.007	19.216	7.8504	10.128
16-Nov-91	04:55:44 AM	19.112	9.2183	19.007	19.216	7.8468	10.128
16-Nov-91	05:10:44 AM	19.112	9.2256	19.007	19.224	7.8504	10.135
16-Nov-91	05:25:44 AM	19.112	9.2256	19.007	19.231	7.8504	10.128
16-Nov-91	05:40:44 AM	19.112	9.2292	19.014	19.231	7.854	10.135
16-Nov-91	05:55:44 AM	19.122	9.2292	19.007	19.224	7.854	10.135
16-Nov-91	06:10:44 AM	19.112	9.2183	19.007	19.224	7.8432	10.128
16-Nov-91	06:25:44 AM	19.122	9.2256	19.007	19.238	7.8468	10.128
16-Nov-91	06:40:44 AM	19.122	9.2328	19.014	19.238	7.8576	10.135
16-Nov-91	06:55:44 AM	19.112	9.24	19.007	19.224	7.6302	10.128
16-Nov-91	07:10:44 AM	19.122	9.2436	19.007	19.238	7.6338	10.128
16-Nov-91	07:25:44 AM	19.122	9.2364	19.007	19.224	7.605	10.128
16-Nov-91	07:40:44 AM	19.112	9.2328	19.007	19.224	7.6086	10.128
16-Nov-91	07:55:44 AM	19.122	9.2328	19.007	19.231	7.6158	10.128
16-Nov-91	08:10:44 AM	19.122	9.24	19.007	19.238	7.6555	10.128
16-Nov-91	08:25:44 AM	19.133	9.2364	19.007	19.238	7.6591	10.128
16-Nov-91	08:40:44 AM	19.133	9.24	19.007	19.238	7.6663	10.135
16-Nov-91	08:55:44 AM	19.144	9.2472	19.014	19.252	7.6627	10.135
16-Nov-91	09:10:44 AM	19.144	9.2472	19.014	19.252	7.6591	10.142
16-Nov-91	09:25:44 AM	19.155	9.258	19.021	19.26	7.641	10.142
16-Nov-91	09:40:44 AM	19.144	9.2544	19.021	19.26	7.6555	10.142
16-Nov-91	09:55:44 AM	19.155	9.258	19.021	19.26	7.6591	10.142
16-Nov-91	10:10:44 AM	19.155	9.258	19.029	19.26	7.6302	10.15
16-Nov-91	10:25:44 AM	19.155	9.2617	19.029	19.267	7.6302	10.15
16-Nov-91	10:40:44 AM	19.166	9.2689	19.029	19.274	7.641	10.15
16-Nov-91	10:55:44 AM	19.166	9.2653	19.036	19.281	7.6627	10.164
16-Nov-91	11:10:44 AM	19.166	9.2617	19.036	19.274	7.6519	10.157
16-Nov-91	11:25:44 AM	19.166	9.2689	19.036	19.274	7.6302	10.157
16-Nov-91	11:40:44 AM	19.187	9.2869	19.043	19.296	7.6591	10.157
16-Nov-91	11:55:44 AM	19.187	9.2833	19.043	19.303	7.6194	10.171
16-Nov-91	12:10:44 PM	19.198	9.2725	19.05	19.31	7.8901	10.171
16-Nov-91	12:25:44 PM	19.198	9.2941	19.058	19.31	7.6591	10.178
16-Nov-91	12:40:44 PM	19.198	9.3266	19.065	19.317	7.688	10.186
16-Nov-91	12:55:44 PM	19.209	9.323	19.065	19.317	7.6771	10.186
16-Nov-91	01:10:44 PM	19.198	9.2978	19.065	19.303	7.6663	10.186
16-Nov-91	01:25:44 PM	19.187	9.2978	19.065	19.303	7.6699	10.186
16-Nov-91	01:40:44 PM	19.198	9.305	19.058	19.303	7.6808	10.178
16-Nov-91	01:55:44 PM	19.198	9.305	19.058	19.31	7.6663	10.178
16-Nov-91	02:10:44 PM	19.209	9.3086	19.065	19.317	7.688	10.186

Date	Time	Analog# mw-4.....ft.....	Analog# mw-11.....ft.....	Analog# mw-12.....ft.....	Analog# mw-14.....ft.....	Analog# mw-33.....ft.....	Analog# mw-41.....ft.....
16-Nov-91	02:25:44 PM	19.209	9.3086	19.065	19.317	7.6699	10.186
16-Nov-91	02:40:44 PM	19.198	9.3014	19.065	19.303	7.6663	10.178
16-Nov-91	02:55:44 PM	19.198	9.305	19.058	19.303	7.6663	10.178
16-Nov-91	03:10:44 PM	19.198	9.305	19.058	19.31	7.6771	10.178
16-Nov-91	03:25:44 PM	19.209	9.3122	19.058	19.317	7.6699	10.178
16-Nov-91	03:40:44 PM	19.198	9.305	19.058	19.31	7.6555	10.178
16-Nov-91	03:55:44 PM	19.198	9.3014	19.058	19.31	7.6591	10.171
16-Nov-91	04:10:44 PM	19.198	9.3014	19.058	19.31	7.6771	10.171
16-Nov-91	04:25:44 PM	19.198	9.305	19.058	19.31	7.6735	10.171
16-Nov-91	04:40:44 PM	19.198	9.2978	19.058	19.31	7.6519	10.178
16-Nov-91	04:55:44 PM	19.198	9.305	19.05	19.31	7.6735	10.171
16-Nov-91	05:10:44 PM	19.209	9.2941	19.058	19.317	7.9118	10.171
16-Nov-91	05:25:44 PM	19.231	9.3014	19.065	19.332	7.9226	10.186
16-Nov-91	05:40:44 PM	19.209	9.2905	19.065	19.325	7.9118	10.186
16-Nov-91	05:55:44 PM	19.22	9.2941	19.065	19.325	7.919	10.186
16-Nov-91	06:10:44 PM	19.198	9.2833	19.058	19.31	7.9045	10.178
16-Nov-91	06:25:44 PM	19.198	9.2869	19.05	19.31	7.9081	10.171
16-Nov-91	06:40:44 PM	19.198	9.2833	19.05	19.31	7.9009	10.171
16-Nov-91	06:55:44 PM	19.198	9.2869	19.043	19.31	7.9081	10.164
16-Nov-91	07:10:44 PM	19.231	9.305	19.058	19.339	7.9226	10.178
16-Nov-91	07:25:44 PM	19.22	9.2941	19.058	19.325	7.9154	10.178
16-Nov-91	07:40:44 PM	19.242	9.3122	19.065	19.346	7.937	10.178
16-Nov-91	07:55:44 PM	19.22	9.2941	19.065	19.325	7.919	10.178
16-Nov-91	08:10:44 PM	19.22	9.2978	19.065	19.332	7.919	10.178
16-Nov-91	08:25:44 PM	19.231	9.305	19.065	19.346	7.9334	10.186
16-Nov-91	08:40:44 PM	19.22	9.3014	19.065	19.332	7.919	10.186
16-Nov-91	08:55:44 PM	19.22	9.305	19.065	19.339	7.9226	10.186
16-Nov-91	09:10:44 PM	19.22	9.305	19.065	19.332	7.9298	10.186
16-Nov-91	09:25:44 PM	19.231	9.3122	19.072	19.346	7.9298	10.193
16-Nov-91	09:40:44 PM	19.242	9.3122	19.072	19.346	7.9298	10.193
16-Nov-91	09:55:44 PM	19.242	9.3158	19.072	19.353	7.9298	10.193
16-Nov-91	10:10:44 PM	19.242	9.3122	19.072	19.346	7.9334	10.193
16-Nov-91	10:25:44 PM	19.242	9.3122	19.072	19.346	7.9298	10.2
16-Nov-91	10:40:44 PM	19.242	9.3158	19.079	19.346	7.9298	10.2
16-Nov-91	10:55:44 PM	19.242	9.3194	19.079	19.353	7.9334	10.2
16-Nov-91	11:10:44 PM	19.252	9.3375	19.086	19.353	7.9587	10.207
16-Nov-91	11:25:44 PM	19.252	9.3194	19.079	19.361	7.9442	10.2
16-Nov-91	11:40:44 PM	19.252	9.3266	19.086	19.361	7.9442	10.207
16-Nov-91	11:55:45 PM	19.252	9.3266	19.086	19.368	7.9442	10.215
17-Nov-91	12:25:44 AM	19.263	9.3338	19.094	19.368	7.9515	10.215
17-Nov-91	12:55:44 AM	19.263	9.3338	19.101	19.368	7.9515	10.215
17-Nov-91	01:25:44 AM	19.252	9.3338	19.094	19.361	7.9478	10.215
17-Nov-91	01:55:44 AM	19.252	9.3338	19.094	19.361	7.9551	10.215
17-Nov-91	02:25:44 AM	19.263	9.3338	19.101	19.368	7.9515	10.215
17-Nov-91	02:55:44 AM	19.263	9.3375	19.101	19.368	7.9551	10.215
17-Nov-91	03:25:44 AM	19.263	9.3411	19.094	19.368	7.9659	10.215
17-Nov-91	03:55:44 AM	19.252	9.3302	19.094	19.361	7.9659	10.207
17-Nov-91	04:25:44 AM	19.252	9.3266	19.086	19.361	7.9623	10.2
17-Nov-91	04:55:44 AM	19.263	9.3375	19.094	19.368	7.9659	10.207
17-Nov-91	05:25:44 AM	19.252	9.3302	19.086	19.361	7.9839	10.207
17-Nov-91	05:55:44 AM	19.242	9.3194	19.086	19.353	7.9767	10.2
17-Nov-91	06:25:44 AM	19.263	9.3302	19.086	19.368	7.9875	10.2



Date	Time	Analog# mw-4..... ft.....	Analog# mw-11..... ft.....	Analog# mw-12..... ft.....	Analog# mw-14..... ft.....	Analog# mw-33..... ft.....	Analog# mw-41..... ft.....
17-Nov-91	06:55:44 AM	19.263	9.3447	19.094	19.368	7.9154	10.207
17-Nov-91	07:25:44 AM	19.263	9.3411	19.094	19.375	7.9009	10.215
17-Nov-91	07:55:44 AM	19.263	9.3411	19.094	19.368	7.8829	10.207
17-Nov-91	08:25:44 AM	19.263	9.3411	19.086	19.368	7.8793	10.207
17-Nov-91	08:55:44 AM	19.263	9.3411	19.086	19.368	7.872	10.207
17-Nov-91	09:25:44 AM	19.263	9.3411	19.086	19.368	7.8865	10.2
17-Nov-91	09:55:44 AM	19.242	9.3302	19.079	19.361	7.919	10.193
17-Nov-91	10:25:44 AM	19.263	9.3447	19.079	19.375	7.9262	10.2
17-Nov-91	10:55:44 AM	19.263	9.3375	19.086	19.375	7.919	10.207
17-Nov-91	11:25:44 AM	19.274	9.3194	19.094	19.382	7.9226	10.215
17-Nov-91	11:55:44 AM	19.274	9.3555	19.101	19.382	7.9262	10.215
17-Nov-91	12:25:44 PM	19.285	9.3555	19.101	19.397	7.9262	10.215
17-Nov-91	12:55:44 PM	19.274	9.3447	19.101	19.382	7.9442	10.215
17-Nov-91	01:25:44 PM	19.285	9.3302	19.101	19.39	7.9262	10.215
17-Nov-91	01:55:44 PM	19.274	9.3447	19.108	19.382	7.9118	10.215
17-Nov-91	02:25:44 PM	19.274	9.3338	19.101	19.375	7.8865	10.215

UPRR SACRAMENTO
MW-4 DATALOGGER DATA
November, 1991

PUMPING					RECOVERY				
Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)

UPRR SACRAMENTO
MW-4 DATALOGGER DATA
November, 1991

PUMPING					RECOVERY				
Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)
13-Nov-91	04:06:44 PM	19.317	0.00	0.00	15-Nov-91	04:57:25 PM	10.742	0.00	8.58
13-Nov-91	04:06:54 PM	13.838	0.17	5.48	15-Nov-91	04:57:29 PM	15.365	0.08	3.95
13-Nov-91	04:07:04 PM	13.503	0.33	5.81	15-Nov-91	04:57:35 PM	16.708	0.17	2.61
13-Nov-91	04:07:14 PM	11.954	0.50	7.36	15-Nov-91	04:57:39 PM	17.325	0.24	1.99
13-Nov-91	04:07:24 PM	11.803	0.67	7.51	15-Nov-91	04:57:44 PM	17.639	0.33	1.68
13-Nov-91	04:07:34 PM	11.77	0.83	7.55	15-Nov-91	04:57:50 PM	17.791	0.42	1.53
13-Nov-91	04:07:44 PM	11.705	1.00	7.61	15-Nov-91	04:57:54 PM	17.888	0.50	1.43
13-Nov-91	04:07:54 PM	11.662	1.17	7.66	15-Nov-91	04:58:00 PM	17.964	0.58	1.35
13-Nov-91	04:08:04 PM	11.619	1.33	7.70	15-Nov-91	04:58:04 PM	18.007	0.66	1.31
13-Nov-91	04:08:14 PM	11.586	1.50	7.73	15-Nov-91	04:58:10 PM	18.05	0.75	1.27
13-Nov-91	04:08:24 PM	11.554	1.67	7.76	15-Nov-91	04:58:14 PM	18.094	0.83	1.22
13-Nov-91	04:08:34 PM	11.532	1.83	7.79	15-Nov-91	04:58:19 PM	18.137	0.91	1.18
13-Nov-91	04:08:44 PM	11.521	2.00	7.80	15-Nov-91	04:58:25 PM	18.159	1.00	1.16
13-Nov-91	04:08:54 PM	11.489	2.17	7.83	15-Nov-91	04:58:29 PM	18.18	1.08	1.14
13-Nov-91	04:09:04 PM	11.51	2.33	7.81	15-Nov-91	04:58:35 PM	18.202	1.17	1.11
13-Nov-91	04:09:14 PM	11.499	2.50	7.82	15-Nov-91	04:58:39 PM	18.224	1.24	1.09
13-Nov-91	04:09:24 PM	11.467	2.67	7.85	15-Nov-91	04:58:45 PM	18.245	1.33	1.07
13-Nov-91	04:09:34 PM	11.499	2.83	7.82	15-Nov-91	04:58:49 PM	18.267	1.41	1.05
13-Nov-91	04:09:44 PM	11.489	3.00	7.83	15-Nov-91	04:58:54 PM	18.289	1.49	1.03
13-Nov-91	04:09:54 PM	11.51	3.17	7.81	15-Nov-91	04:59:00 PM	18.3	1.58	1.02
13-Nov-91	04:10:04 PM	11.499	3.33	7.82	15-Nov-91	04:59:04 PM	18.31	1.66	1.01
13-Nov-91	04:10:14 PM	11.532	3.50	7.79	15-Nov-91	04:59:10 PM	18.321	1.75	1.00
13-Nov-91	04:10:24 PM	11.51	3.67	7.81	15-Nov-91	04:59:14 PM	18.332	1.83	0.98
13-Nov-91	04:10:34 PM	11.554	3.83	7.76	15-Nov-91	04:59:20 PM	18.354	1.92	0.96
13-Nov-91	04:10:44 PM	11.619	4.00	7.70	15-Nov-91	04:59:24 PM	18.365	1.99	0.95
13-Nov-91	04:10:54 PM	11.662	4.17	7.66	15-Nov-91	04:59:29 PM	18.375	2.08	0.94
13-Nov-91	04:11:04 PM	11.781	4.33	7.54	15-Nov-91	04:59:35 PM	18.375	2.17	0.94
13-Nov-91	04:11:14 PM	11.933	4.50	7.38	15-Nov-91	04:59:39 PM	18.386	2.24	0.93
13-Nov-91	04:11:24 PM	11.943	4.67	7.37	15-Nov-91	04:59:45 PM	18.397	2.33	0.92
13-Nov-91	04:11:34 PM	11.943	4.83	7.37	15-Nov-91	04:59:49 PM	18.397	2.41	0.92
13-Nov-91	04:11:44 PM	11.987	5.00	7.33	15-Nov-91	04:59:55 PM	18.408	2.50	0.91
13-Nov-91	04:11:54 PM	12.008	5.17	7.31	15-Nov-91	04:59:59 PM	18.408	2.58	0.91
13-Nov-91	04:12:04 PM	11.976	5.33	7.34	15-Nov-91	05:00:04 PM	18.419	2.66	0.90
13-Nov-91	04:12:14 PM	11.998	5.50	7.32	15-Nov-91	05:00:10 PM	18.429	2.75	0.89
13-Nov-91	04:12:24 PM	11.998	5.67	7.32	15-Nov-91	05:00:14 PM	18.44	2.83	0.88
13-Nov-91	04:12:34 PM	11.987	5.83	7.33	15-Nov-91	05:00:20 PM	18.44	2.92	0.88
13-Nov-91	04:12:44 PM	11.965	6.00	7.35	15-Nov-91	05:00:24 PM	18.44	3.00	0.88
13-Nov-91	04:12:54 PM	11.976	6.17	7.34	15-Nov-91	05:00:30 PM	18.451	3.08	0.87
13-Nov-91	04:13:04 PM	11.965	6.33	7.35	15-Nov-91	05:00:34 PM	18.462	3.16	0.86
13-Nov-91	04:13:14 PM	11.965	6.50	7.35	15-Nov-91	05:00:39 PM	18.462	3.24	0.86

UPRR SACRAMENTO
MW-4 DATALOGGER DATA
November, 1991

PUMPING					RECOVERY				
Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)
13-Nov-91	04:13:24 PM	11.933	6.67	7.38	15-Nov-91	05:00:45 PM	18.462	3.33	0.86
13-Nov-91	04:13:34 PM	11.976	6.83	7.34	15-Nov-91	05:00:49 PM	18.473	3.41	0.84
13-Nov-91	04:13:44 PM	11.943	7.00	7.37	15-Nov-91	05:00:55 PM	18.473	3.50	0.84
13-Nov-91	04:13:54 PM	11.954	7.17	7.36	15-Nov-91	05:00:59 PM	18.484	3.58	0.83
13-Nov-91	04:14:04 PM	11.933	7.33	7.38	15-Nov-91	05:01:05 PM	18.484	3.67	0.83
13-Nov-91	04:14:14 PM	11.943	7.50	7.37	15-Nov-91	05:01:09 PM	18.494	3.75	0.82
13-Nov-91	04:14:24 PM	11.922	7.67	7.40	15-Nov-91	05:01:14 PM	18.494	3.83	0.82
13-Nov-91	04:14:34 PM	11.943	7.83	7.37	15-Nov-91	05:01:20 PM	18.505	3.92	0.81
13-Nov-91	04:14:44 PM	11.933	8.00	7.38	15-Nov-91	05:01:24 PM	18.494	3.99	0.82
13-Nov-91	04:14:54 PM	11.943	8.17	7.37	15-Nov-91	05:01:30 PM	18.505	4.08	0.81
13-Nov-91	04:15:04 PM	11.933	8.33	7.38	15-Nov-91	05:01:34 PM	18.505	4.16	0.81
13-Nov-91	04:15:14 PM	11.933	8.50	7.38	15-Nov-91	05:01:40 PM	18.505	4.25	0.81
13-Nov-91	04:15:24 PM	11.933	8.67	7.38	15-Nov-91	05:01:44 PM	18.516	4.33	0.80
13-Nov-91	04:15:34 PM	11.922	8.83	7.40	15-Nov-91	05:01:49 PM	18.516	4.41	0.80
13-Nov-91	04:15:44 PM	11.933	9.00	7.38	15-Nov-91	05:01:55 PM	18.516	4.50	0.80
13-Nov-91	04:15:54 PM	11.9	9.17	7.42	15-Nov-91	05:01:59 PM	18.527	4.58	0.79
13-Nov-91	04:16:04 PM	11.911	9.33	7.41	15-Nov-91	05:02:05 PM	18.527	4.67	0.79
13-Nov-91	04:16:14 PM	11.889	9.50	7.43	15-Nov-91	05:02:09 PM	18.527	4.74	0.79
13-Nov-91	04:16:24 PM	11.9	9.67	7.42	15-Nov-91	05:02:15 PM	18.527	4.84	0.79
13-Nov-91	04:16:34 PM	11.922	9.83	7.40	15-Nov-91	05:02:19 PM	18.538	4.91	0.78
13-Nov-91	04:16:44 PM	11.9	10.00	7.42	15-Nov-91	05:02:24 PM	18.538	5.00	0.78
13-Nov-91	04:17:14 PM	11.9	10.50	7.42	15-Nov-91	05:02:30 PM	18.549	5.08	0.77
13-Nov-91	04:17:44 PM	11.868	11.00	7.45	15-Nov-91	05:02:34 PM	18.549	5.16	0.77
13-Nov-91	04:18:14 PM	11.889	11.50	7.43	15-Nov-91	05:02:40 PM	18.549	5.25	0.77
13-Nov-91	04:18:44 PM	11.857	12.00	7.46	15-Nov-91	05:02:44 PM	18.549	5.33	0.77
13-Nov-91	04:19:14 PM	11.889	12.50	7.43	15-Nov-91	05:02:49 PM	18.549	5.41	0.77
13-Nov-91	04:19:44 PM	11.857	13.00	7.46	15-Nov-91	05:02:55 PM	18.549	5.50	0.77
13-Nov-91	04:20:14 PM	11.868	13.50	7.45	15-Nov-91	05:02:59 PM	18.559	5.58	0.76
13-Nov-91	04:20:44 PM	11.835	14.00	7.48	15-Nov-91	05:03:05 PM	18.559	5.67	0.76
13-Nov-91	04:21:14 PM	11.824	14.50	7.49	15-Nov-91	05:03:09 PM	18.57	5.74	0.75
13-Nov-91	04:21:44 PM	11.824	15.00	7.49	15-Nov-91	05:03:15 PM	18.559	5.83	0.76
13-Nov-91	04:22:14 PM	11.813	15.50	7.50	15-Nov-91	05:03:19 PM	18.57	5.91	0.75
13-Nov-91	04:22:44 PM	11.824	16.00	7.49	15-Nov-91	05:03:24 PM	18.57	5.99	0.75
13-Nov-91	04:23:14 PM	11.813	16.50	7.50	15-Nov-91	05:03:30 PM	18.57	6.08	0.75
13-Nov-91	04:23:44 PM	11.824	17.00	7.49	15-Nov-91	05:03:34 PM	18.57	6.16	0.75
13-Nov-91	04:24:14 PM	11.813	17.50	7.50	15-Nov-91	05:03:40 PM	18.57	6.25	0.75
13-Nov-91	04:24:44 PM	11.803	18.00	7.51	15-Nov-91	05:03:44 PM	18.581	6.33	0.74
13-Nov-91	04:25:14 PM	11.803	18.50	7.51	15-Nov-91	05:03:50 PM	18.581	6.42	0.74
13-Nov-91	04:25:44 PM	11.792	19.00	7.53	15-Nov-91	05:03:54 PM	18.581	6.49	0.74
13-Nov-91	04:26:14 PM	11.803	19.50	7.51	15-Nov-91	05:03:59 PM	18.592	6.58	0.73
13-Nov-91	04:26:44 PM	11.792	20.00	7.53	15-Nov-91	05:04:05 PM	18.581	6.67	0.74
13-Nov-91	04:27:14 PM	11.781	20.50	7.54	15-Nov-91	05:04:09 PM	18.592	6.74	0.73
13-Nov-91	04:27:44 PM	11.813	21.00	7.50	15-Nov-91	05:04:15 PM	18.592	6.83	0.73
13-Nov-91	04:28:14 PM	11.781	21.50	7.54	15-Nov-91	05:04:19 PM	18.592	6.91	0.73
13-Nov-91	04:28:44 PM	11.803	22.00	7.51	15-Nov-91	05:04:25 PM	18.592	7.00	0.73
13-Nov-91	04:29:14 PM	11.803	22.50	7.51	15-Nov-91	05:04:29 PM	18.592	7.08	0.73
13-Nov-91	04:29:44 PM	11.77	23.00	7.55	15-Nov-91	05:04:34 PM	18.592	7.16	0.73
13-Nov-91	04:30:14 PM	11.759	23.50	7.56	15-Nov-91	05:04:40 PM	18.592	7.25	0.73

UPRR SACRAMENTO
 MW-4 DATALOGGER DATA
 November, 1991

PUMPING				RECOVERY					
Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)
13-Nov-91	04:30:44 PM	11.781	24.00	7.54	15-Nov-91	05:04:44 PM	18.603	7.33	0.71
13-Nov-91	04:31:14 PM	11.777	24.50	7.55	15-Nov-91	05:04:50 PM	18.603	7.42	0.71
13-Nov-91	04:31:44 PM	11.759	25.00	7.56	15-Nov-91	05:04:54 PM	18.603	7.50	0.71
13-Nov-91	04:32:14 PM	11.759	25.50	7.56	15-Nov-91	05:05:00 PM	18.603	7.58	0.71
13-Nov-91	04:32:44 PM	11.749	26.00	7.57	15-Nov-91	05:05:04 PM	18.603	7.66	0.71
13-Nov-91	04:33:14 PM	11.749	26.50	7.57	15-Nov-91	05:05:09 PM	18.614	7.74	0.70
13-Nov-91	04:33:44 PM	11.759	27.00	7.56	15-Nov-91	05:05:15 PM	18.614	7.83	0.70
13-Nov-91	04:34:14 PM	11.749	27.50	7.57	15-Nov-91	05:05:19 PM	18.614	7.91	0.70
13-Nov-91	04:34:44 PM	11.759	28.00	7.56	15-Nov-91	05:05:25 PM	18.614	8.00	0.70
13-Nov-91	04:35:14 PM	11.738	28.50	7.58	15-Nov-91	05:05:29 PM	18.614	8.08	0.70
13-Nov-91	04:35:44 PM	11.705	29.00	7.61	15-Nov-91	05:05:35 PM	18.614	8.17	0.70
13-Nov-91	04:36:14 PM	11.759	29.50	7.56	15-Nov-91	05:05:39 PM	18.614	8.25	0.70
13-Nov-91	04:36:44 PM	11.738	30.00	7.58	15-Nov-91	05:05:44 PM	18.614	8.33	0.70
13-Nov-91	04:37:14 PM	11.716	30.50	7.60	15-Nov-91	05:06:14 PM	18.624	8.83	0.69
13-Nov-91	04:37:44 PM	11.727	31.00	7.59	15-Nov-91	05:06:44 PM	18.624	9.33	0.69
13-Nov-91	04:38:14 PM	11.749	31.50	7.57	15-Nov-91	05:07:14 PM	18.635	9.83	0.68
13-Nov-91	04:38:44 PM	11.705	32.00	7.61	15-Nov-91	05:07:44 PM	18.635	10.33	0.68
13-Nov-91	04:39:14 PM	11.716	32.50	7.60	15-Nov-91	05:08:14 PM	18.646	10.83	0.67
13-Nov-91	04:39:44 PM	11.738	33.00	7.58	15-Nov-91	05:08:44 PM	18.657	11.33	0.66
13-Nov-91	04:40:14 PM	11.694	33.50	7.62	15-Nov-91	05:09:14 PM	18.668	11.83	0.65
13-Nov-91	04:40:44 PM	11.716	34.00	7.60	15-Nov-91	05:09:44 PM	18.668	12.33	0.65
13-Nov-91	04:41:14 PM	11.738	34.50	7.58	15-Nov-91	05:10:14 PM	18.668	12.83	0.65
13-Nov-91	04:41:44 PM	11.716	35.00	7.60	15-Nov-91	05:10:44 PM	18.679	13.33	0.64
13-Nov-91	04:42:14 PM	11.705	35.50	7.61	15-Nov-91	05:11:14 PM	18.679	13.83	0.64
13-Nov-91	04:42:44 PM	11.727	36.00	7.59	15-Nov-91	05:11:44 PM	18.679	14.33	0.64
13-Nov-91	04:43:14 PM	11.716	36.50	7.60	15-Nov-91	05:12:14 PM	18.689	14.83	0.63
13-Nov-91	04:43:44 PM	11.694	37.00	7.62	15-Nov-91	05:12:44 PM	18.689	15.33	0.63
13-Nov-91	04:44:14 PM	11.684	37.50	7.63	15-Nov-91	05:13:14 PM	18.689	15.83	0.63
13-Nov-91	04:44:44 PM	11.694	38.00	7.62	15-Nov-91	05:13:44 PM	18.7	16.33	0.62
13-Nov-91	04:45:14 PM	11.716	38.50	7.60	15-Nov-91	05:14:14 PM	18.7	16.83	0.62
13-Nov-91	04:45:44 PM	11.684	39.00	7.63	15-Nov-91	05:14:44 PM	18.7	17.33	0.62
13-Nov-91	04:46:14 PM	11.694	39.50	7.62	15-Nov-91	05:15:14 PM	18.7	17.83	0.62
13-Nov-91	04:46:44 PM	11.694	40.00	7.62	15-Nov-91	05:15:44 PM	18.7	18.33	0.62
13-Nov-91	04:47:14 PM	11.694	40.50	7.62	15-Nov-91	05:16:14 PM	18.711	18.83	0.61
13-Nov-91	04:47:44 PM	11.694	41.00	7.62	15-Nov-91	05:16:44 PM	18.722	19.33	0.59
13-Nov-91	04:48:14 PM	11.673	41.50	7.64	15-Nov-91	05:17:14 PM	18.722	19.83	0.59
13-Nov-91	04:48:44 PM	11.684	42.00	7.63	15-Nov-91	05:17:44 PM	18.722	20.33	0.59
13-Nov-91	04:49:14 PM	11.662	42.50	7.66	15-Nov-91	05:18:14 PM	18.722	20.83	0.59
13-Nov-91	04:49:44 PM	11.684	43.00	7.63	15-Nov-91	05:18:44 PM	18.722	21.33	0.59
13-Nov-91	04:50:14 PM	11.673	43.50	7.64	15-Nov-91	05:19:14 PM	18.722	21.83	0.59
13-Nov-91	04:50:44 PM	11.662	44.00	7.66	15-Nov-91	05:19:44 PM	18.733	22.33	0.58
13-Nov-91	04:51:14 PM	11.662	44.50	7.66	15-Nov-91	05:20:14 PM	18.733	22.83	0.58
13-Nov-91	04:51:44 PM	11.673	45.00	7.64	15-Nov-91	05:20:44 PM	18.733	23.33	0.58
13-Nov-91	04:52:14 PM	11.662	45.50	7.66	15-Nov-91	05:21:14 PM	18.733	23.83	0.58
13-Nov-91	04:52:44 PM	11.673	46.00	7.64	15-Nov-91	05:21:44 PM	18.733	24.33	0.58
13-Nov-91	04:53:14 PM	11.662	46.50	7.66	15-Nov-91	05:22:14 PM	18.743	24.83	0.57
13-Nov-91	04:53:44 PM	11.651	47.00	7.67	15-Nov-91	05:22:44 PM	18.743	25.33	0.57
13-Nov-91	04:54:14 PM	11.684	47.50	7.63	15-Nov-91	05:23:14 PM	18.743	25.83	0.57

UPRR SACRAMENTO
 MW-4 DATALOGGER DATA
 November, 1991

PUMPING					RECOVERY				
Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)
13-Nov-91	04:54:44 PM	11.651	48.00	7.67	15-Nov-91	05:23:44 PM	18.754	26.33	0.56
13-Nov-91	04:55:14 PM	11.651	48.50	7.67	15-Nov-91	05:24:14 PM	18.754	26.83	0.56
13-Nov-91	04:55:44 PM	11.651	49.00	7.67	15-Nov-91	05:24:44 PM	18.754	27.33	0.56
13-Nov-91	04:56:14 PM	11.662	49.50	7.66	15-Nov-91	05:25:14 PM	18.754	27.83	0.56
13-Nov-91	04:56:44 PM	11.651	50.00	7.67	15-Nov-91	05:25:44 PM	18.765	28.33	0.55
13-Nov-91	04:57:14 PM	11.629	50.50	7.69	15-Nov-91	05:26:14 PM	18.765	28.83	0.55
13-Nov-91	04:57:44 PM	11.629	51.00	7.69	15-Nov-91	05:26:44 PM	18.765	29.33	0.55
13-Nov-91	04:58:14 PM	11.673	51.50	7.64	15-Nov-91	05:27:14 PM	18.765	29.83	0.55
13-Nov-91	04:58:44 PM	11.651	52.00	7.67	15-Nov-91	05:27:44 PM	18.765	30.33	0.55
13-Nov-91	04:59:14 PM	11.619	52.50	7.70	15-Nov-91	05:28:14 PM	18.765	30.83	0.55
13-Nov-91	04:59:44 PM	11.64	53.00	7.68	15-Nov-91	05:28:44 PM	18.776	31.33	0.54
13-Nov-91	05:00:14 PM	11.651	53.50	7.67	15-Nov-91	05:29:14 PM	18.765	31.83	0.55
13-Nov-91	05:00:44 PM	11.651	54.00	7.67	15-Nov-91	05:29:44 PM	18.776	32.33	0.54
13-Nov-91	05:01:14 PM	11.619	54.50	7.70	15-Nov-91	05:30:14 PM	18.776	32.83	0.54
13-Nov-91	05:01:44 PM	11.64	55.00	7.68	15-Nov-91	05:30:44 PM	18.776	33.33	0.54
13-Nov-91	05:02:14 PM	11.64	55.50	7.68	15-Nov-91	05:31:14 PM	18.787	33.83	0.53
13-Nov-91	05:02:44 PM	11.64	56.00	7.68	15-Nov-91	05:31:44 PM	18.787	34.33	0.53
13-Nov-91	05:03:14 PM	11.608	56.50	7.71	15-Nov-91	05:32:14 PM	18.787	34.83	0.53
13-Nov-91	05:03:44 PM	11.629	57.00	7.69	15-Nov-91	05:32:44 PM	18.787	35.33	0.53
13-Nov-91	05:04:14 PM	11.619	57.50	7.70	15-Nov-91	05:33:14 PM	18.787	35.83	0.53
13-Nov-91	05:04:44 PM	11.619	58.00	7.70	15-Nov-91	05:33:44 PM	18.787	36.33	0.53
13-Nov-91	05:05:14 PM	11.619	58.50	7.70	15-Nov-91	05:34:14 PM	18.787	36.83	0.53
13-Nov-91	05:05:44 PM	11.608	59.00	7.71	15-Nov-91	05:34:44 PM	18.787	37.33	0.53
13-Nov-91	05:06:14 PM	11.608	59.50	7.71	15-Nov-91	05:35:14 PM	18.787	37.83	0.53
13-Nov-91	05:06:44 PM	11.629	60.00	7.69	15-Nov-91	05:35:44 PM	18.798	38.33	0.52
13-Nov-91	05:07:14 PM	11.619	61.00	7.70	15-Nov-91	05:36:14 PM	18.798	38.83	0.52
13-Nov-91	05:08:44 PM	11.619	62.00	7.70	15-Nov-91	05:36:44 PM	18.798	39.33	0.52
13-Nov-91	05:09:44 PM	11.586	63.00	7.73	15-Nov-91	05:37:14 PM	18.808	39.83	0.51
13-Nov-91	05:10:44 PM	11.619	64.00	7.70	15-Nov-91	05:37:44 PM	18.798	40.33	0.52
13-Nov-91	05:11:44 PM	11.597	65.00	7.72	15-Nov-91	05:38:14 PM	18.808	40.83	0.51
13-Nov-91	05:12:44 PM	11.597	66.00	7.72	15-Nov-91	05:38:44 PM	18.808	41.33	0.51
13-Nov-91	05:13:44 PM	11.619	67.00	7.70	15-Nov-91	05:39:14 PM	18.808	41.83	0.51
13-Nov-91	05:14:44 PM	11.597	68.00	7.72	15-Nov-91	05:39:44 PM	18.808	42.33	0.51
13-Nov-91	05:15:44 PM	11.586	69.00	7.73	15-Nov-91	05:40:14 PM	18.808	42.83	0.51
13-Nov-91	05:16:44 PM	11.586	70.00	7.73	15-Nov-91	05:40:44 PM	18.808	43.33	0.51
13-Nov-91	05:17:44 PM	11.586	71.00	7.73	15-Nov-91	05:41:14 PM	18.808	43.83	0.51
13-Nov-91	05:18:44 PM	11.586	72.00	7.73	15-Nov-91	05:41:44 PM	18.808	44.33	0.51
13-Nov-91	05:19:44 PM	11.597	73.00	7.72	15-Nov-91	05:42:14 PM	18.819	44.83	0.50
13-Nov-91	05:20:44 PM	11.586	74.00	7.73	15-Nov-91	05:42:44 PM	18.819	45.33	0.50
13-Nov-91	05:21:44 PM	11.575	75.00	7.74	15-Nov-91	05:43:14 PM	18.819	45.83	0.50
13-Nov-91	05:22:44 PM	11.586	76.00	7.73	15-Nov-91	05:43:44 PM	18.819	46.33	0.50
13-Nov-91	05:23:44 PM	11.575	77.00	7.74	15-Nov-91	05:44:14 PM	18.819	46.83	0.50
13-Nov-91	05:24:44 PM	11.597	78.00	7.72	15-Nov-91	05:44:44 PM	18.819	47.33	0.50
13-Nov-91	05:25:44 PM	11.575	79.00	7.74	15-Nov-91	05:45:14 PM	18.819	47.83	0.50
13-Nov-91	05:26:44 PM	11.586	80.00	7.73	15-Nov-91	05:45:44 PM	18.819	48.33	0.50
13-Nov-91	05:27:44 PM	11.586	81.00	7.73	15-Nov-91	05:46:14 PM	18.819	48.83	0.50
13-Nov-91	05:28:44 PM	11.586	82.00	7.73	15-Nov-91	05:46:44 PM	18.819	49.33	0.50
13-Nov-91	05:29:44 PM	11.575	83.00	7.74	15-Nov-91	05:47:14 PM	18.819	49.83	0.50

UPRR SACRAMENTO
MW-4 DATALOGGER DATA
November, 1991

PUMPING					RECOVERY				
Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)
13-Nov-91	05:30:44 PM	11.597	84.00	7.72	15-Nov-91	05:47:44 PM	18.819	50.33	0.50
13-Nov-91	05:31:44 PM	11.564	85.00	7.75	15-Nov-91	05:48:14 PM	18.819	50.83	0.50
13-Nov-91	05:32:44 PM	11.586	86.00	7.73	15-Nov-91	05:48:44 PM	18.819	51.33	0.50
13-Nov-91	05:33:44 PM	11.586	87.00	7.73	15-Nov-91	05:49:14 PM	18.819	51.83	0.50
13-Nov-91	05:34:44 PM	11.564	88.00	7.75	15-Nov-91	05:49:44 PM	18.819	52.33	0.50
13-Nov-91	05:35:44 PM	11.564	89.00	7.75	15-Nov-91	05:50:14 PM	18.819	52.83	0.50
13-Nov-91	05:36:44 PM	11.564	90.00	7.75	15-Nov-91	05:50:44 PM	18.819	53.33	0.50
13-Nov-91	05:37:44 PM	11.564	91.00	7.75	15-Nov-91	05:51:14 PM	18.83	53.83	0.49
13-Nov-91	05:38:44 PM	11.554	92.00	7.76	15-Nov-91	05:51:44 PM	18.83	54.33	0.49
13-Nov-91	05:39:44 PM	11.586	93.00	7.73	15-Nov-91	05:52:14 PM	18.83	54.83	0.49
13-Nov-91	05:40:44 PM	11.564	94.00	7.75	15-Nov-91	05:52:44 PM	18.83	55.33	0.49
13-Nov-91	05:41:44 PM	11.554	95.00	7.76	15-Nov-91	05:53:14 PM	18.83	55.83	0.49
13-Nov-91	05:42:44 PM	11.575	96.00	7.74	15-Nov-91	05:53:44 PM	18.83	56.33	0.49
13-Nov-91	05:43:44 PM	11.564	97.00	7.75	15-Nov-91	05:54:14 PM	18.83	56.83	0.49
13-Nov-91	05:44:44 PM	11.564	98.00	7.75	15-Nov-91	05:54:44 PM	18.83	57.33	0.49
13-Nov-91	05:45:44 PM	11.554	99.00	7.76	15-Nov-91	05:55:14 PM	18.841	57.83	0.48
13-Nov-91	05:46:44 PM	11.564	100.00	7.75	15-Nov-91	05:55:45 PM	18.83	58.33	0.49
13-Nov-91	05:47:44 PM	11.564	101.00	7.75	15-Nov-91	05:56:44 PM	18.83	59.33	0.49
13-Nov-91	05:48:44 PM	11.554	102.00	7.76	15-Nov-91	05:57:44 PM	18.841	60.33	0.48
13-Nov-91	05:49:44 PM	11.532	103.00	7.79	15-Nov-91	05:58:44 PM	18.841	61.33	0.48
13-Nov-91	05:50:44 PM	11.554	104.00	7.76	15-Nov-91	05:59:44 PM	18.841	62.33	0.48
13-Nov-91	05:51:44 PM	11.543	105.00	7.77	15-Nov-91	06:00:44 PM	18.841	63.33	0.48
13-Nov-91	05:52:44 PM	11.564	106.00	7.75	15-Nov-91	06:01:44 PM	18.852	64.33	0.46
13-Nov-91	05:53:44 PM	11.564	107.00	7.75	15-Nov-91	06:02:44 PM	18.852	65.33	0.46
13-Nov-91	05:54:44 PM	11.554	108.00	7.76	15-Nov-91	06:03:44 PM	18.852	66.33	0.46
13-Nov-91	05:55:44 PM	11.554	109.00	7.76	15-Nov-91	06:04:44 PM	18.852	67.33	0.46
13-Nov-91	05:56:44 PM	11.532	110.00	7.79	15-Nov-91	06:05:44 PM	18.841	68.33	0.48
13-Nov-91	05:57:44 PM	11.554	111.00	7.76	15-Nov-91	06:06:44 PM	18.852	69.33	0.46
13-Nov-91	05:58:44 PM	11.532	112.00	7.79	15-Nov-91	06:07:44 PM	18.852	70.33	0.46
13-Nov-91	05:59:44 PM	11.532	113.00	7.79	15-Nov-91	06:08:44 PM	18.852	71.33	0.46
13-Nov-91	06:00:44 PM	11.532	114.00	7.79	15-Nov-91	06:09:44 PM	18.852	72.33	0.46
13-Nov-91	06:01:44 PM	11.51	115.00	7.81	15-Nov-91	06:10:44 PM	18.852	73.33	0.46
13-Nov-91	06:02:44 PM	11.554	116.00	7.76	15-Nov-91	06:11:44 PM	18.852	74.33	0.46
13-Nov-91	06:03:44 PM	11.554	117.00	7.76	15-Nov-91	06:12:44 PM	18.852	75.33	0.46
13-Nov-91	06:04:44 PM	11.543	118.00	7.77	15-Nov-91	06:13:44 PM	18.852	76.33	0.46
13-Nov-91	06:05:44 PM	11.543	119.00	7.77	15-Nov-91	06:14:44 PM	18.852	77.33	0.46
13-Nov-91	06:06:45 PM	11.532	120.00	7.79	15-Nov-91	06:15:44 PM	18.852	78.33	0.46
13-Nov-91	06:11:44 PM	11.532	125.00	7.79	15-Nov-91	06:16:44 PM	18.852	79.33	0.46
13-Nov-91	06:16:44 PM	11.532	130.00	7.79	15-Nov-91	06:17:44 PM	18.852	80.33	0.46
13-Nov-91	06:21:44 PM	11.532	135.00	7.79	15-Nov-91	06:18:44 PM	18.852	81.33	0.46
13-Nov-91	06:26:44 PM	11.499	140.00	7.82	15-Nov-91	06:19:44 PM	18.852	82.33	0.46
13-Nov-91	06:31:44 PM	11.521	145.00	7.80	15-Nov-91	06:20:44 PM	18.852	83.33	0.46
13-Nov-91	06:36:44 PM	11.499	150.00	7.82	15-Nov-91	06:21:44 PM	18.863	84.33	0.45
13-Nov-91	06:41:44 PM	11.521	155.00	7.80	15-Nov-91	06:22:44 PM	18.863	85.33	0.45
13-Nov-91	06:46:44 PM	11.499	160.00	7.82	15-Nov-91	06:23:44 PM	18.863	86.33	0.45
13-Nov-91	06:51:44 PM	11.499	165.00	7.82	15-Nov-91	06:24:44 PM	18.863	87.33	0.45
13-Nov-91	06:56:44 PM	11.489	170.00	7.83	15-Nov-91	06:25:44 PM	18.873	88.33	0.44
13-Nov-91	07:01:44 PM	11.499	175.00	7.82	15-Nov-91	06:26:44 PM	18.863	89.33	0.45

UPRR SACRAMENTO
MW-4 DATALOGGER DATA
November, 1991

PUMPING					RECOVERY				
Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)
13-Nov-91	07:06:44 PM	11.315	180.00	8.00	15-Nov-91	06:27:44 PM	18.873	90.33	0.44
13-Nov-91	07:11:44 PM	11.294	185.00	8.02	15-Nov-91	06:28:44 PM	18.873	91.33	0.44
13-Nov-91	07:16:44 PM	11.315	190.00	8.00	15-Nov-91	06:29:44 PM	18.863	92.33	0.45
13-Nov-91	07:21:44 PM	11.315	195.00	8.00	15-Nov-91	06:30:44 PM	18.863	93.33	0.45
13-Nov-91	07:26:44 PM	11.294	200.00	8.02	15-Nov-91	06:31:44 PM	18.873	94.33	0.44
13-Nov-91	07:31:44 PM	11.305	205.00	8.01	15-Nov-91	06:32:44 PM	18.863	95.33	0.45
13-Nov-91	07:36:44 PM	11.305	210.00	8.01	15-Nov-91	06:33:44 PM	18.863	96.33	0.45
13-Nov-91	07:41:44 PM	11.283	215.00	8.03	15-Nov-91	06:34:44 PM	18.873	97.33	0.44
13-Nov-91	07:46:44 PM	11.283	220.00	8.03	15-Nov-91	06:35:44 PM	18.873	98.33	0.44
13-Nov-91	07:51:44 PM	11.272	225.00	8.05	15-Nov-91	06:36:44 PM	18.863	99.33	0.45
13-Nov-91	07:56:44 PM	11.283	230.00	8.03	15-Nov-91	06:37:44 PM	18.873	100.33	0.44
13-Nov-91	08:01:44 PM	11.283	235.00	8.03	15-Nov-91	06:38:44 PM	18.873	101.33	0.44
13-Nov-91	08:06:44 PM	11.283	240.00	8.03	15-Nov-91	06:39:44 PM	18.873	102.33	0.44
13-Nov-91	08:11:44 PM	11.283	245.00	8.03	15-Nov-91	06:40:44 PM	18.884	103.33	0.43
13-Nov-91	08:16:44 PM	11.272	250.00	8.05	15-Nov-91	06:41:44 PM	18.884	104.33	0.43
13-Nov-91	08:21:44 PM	11.272	255.00	8.05	15-Nov-91	06:42:44 PM	18.884	105.33	0.43
13-Nov-91	08:26:44 PM	11.261	260.00	8.06	15-Nov-91	06:43:44 PM	18.884	106.33	0.43
13-Nov-91	08:31:44 PM	11.261	265.00	8.06	15-Nov-91	06:44:44 PM	18.884	107.33	0.43
13-Nov-91	08:36:44 PM	11.261	270.00	8.06	15-Nov-91	06:45:44 PM	18.873	108.33	0.44
13-Nov-91	08:41:44 PM	11.272	275.00	8.05	15-Nov-91	06:46:44 PM	18.884	109.33	0.43
13-Nov-91	08:46:44 PM	11.25	280.00	8.07	15-Nov-91	06:47:44 PM	18.873	110.33	0.44
13-Nov-91	08:51:44 PM	11.25	285.00	8.07	15-Nov-91	06:48:44 PM	18.884	111.33	0.43
13-Nov-91	08:56:44 PM	11.261	290.00	8.06	15-Nov-91	06:49:44 PM	18.873	112.33	0.44
13-Nov-91	09:01:44 PM	11.25	295.00	8.07	15-Nov-91	06:50:44 PM	18.884	113.33	0.43
13-Nov-91	09:06:44 PM	11.25	300.00	8.07	15-Nov-91	06:51:44 PM	18.884	114.33	0.43
13-Nov-91	09:11:44 PM	11.25	305.00	8.07	15-Nov-91	06:52:44 PM	18.884	115.33	0.43
13-Nov-91	09:16:44 PM	11.24	310.00	8.08	15-Nov-91	06:53:44 PM	18.895	116.33	0.42
13-Nov-91	09:21:44 PM	11.25	315.00	8.07	15-Nov-91	06:54:44 PM	18.895	117.33	0.42
13-Nov-91	09:26:44 PM	11.261	320.00	8.06	15-Nov-91	06:55:44 PM	18.895	118.33	0.42
13-Nov-91	09:31:44 PM	11.24	325.00	8.08	15-Nov-91	07:00:44 PM	18.895	123.33	0.42
13-Nov-91	09:36:44 PM	11.229	330.00	8.09	15-Nov-91	07:05:44 PM	18.895	128.33	0.42
13-Nov-91	09:41:44 PM	11.229	335.00	8.09	15-Nov-91	07:10:44 PM	18.917	133.33	0.40
13-Nov-91	09:46:44 PM	11.229	340.00	8.09	15-Nov-91	07:15:44 PM	18.917	138.33	0.40
13-Nov-91	09:51:44 PM	11.25	345.00	8.07	15-Nov-91	07:20:44 PM	18.917	143.33	0.40
13-Nov-91	09:56:44 PM	11.24	350.00	8.08	15-Nov-91	07:25:44 PM	18.938	148.33	0.38
13-Nov-91	10:01:44 PM	11.24	355.00	8.08	15-Nov-91	07:30:44 PM	18.938	153.33	0.38
13-Nov-91	10:06:44 PM	11.24	360.00	8.08	15-Nov-91	07:35:44 PM	18.938	158.33	0.38
13-Nov-91	10:11:44 PM	11.24	365.00	8.08	15-Nov-91	07:40:44 PM	18.938	163.33	0.38
13-Nov-91	10:16:44 PM	11.24	370.00	8.08	15-Nov-91	07:45:44 PM	18.96	168.33	0.36
13-Nov-91	10:21:44 PM	11.229	375.00	8.09	15-Nov-91	07:50:44 PM	18.949	173.33	0.37
13-Nov-91	10:26:44 PM	11.229	380.00	8.09	15-Nov-91	07:55:44 PM	18.96	178.33	0.36
13-Nov-91	10:31:44 PM	11.229	385.00	8.09	15-Nov-91	08:00:44 PM	18.96	183.33	0.36
13-Nov-91	10:36:44 PM	11.229	390.00	8.09	15-Nov-91	08:05:44 PM	18.96	188.33	0.36
13-Nov-91	10:41:44 PM	11.24	395.00	8.08	15-Nov-91	08:10:44 PM	18.96	193.33	0.36
13-Nov-91	10:46:44 PM	11.24	400.00	8.08	15-Nov-91	08:15:44 PM	18.96	198.33	0.36
13-Nov-91	10:51:44 PM	11.218	405.00	8.10	15-Nov-91	08:20:44 PM	18.96	203.33	0.36
13-Nov-91	10:56:44 PM	11.218	410.00	8.10	15-Nov-91	08:25:44 PM	18.971	208.33	0.35
13-Nov-91	11:01:44 PM	11.218	415.00	8.10	15-Nov-91	08:30:44 PM	18.982	213.33	0.34

UPRR SACRAMENTO
MW-4 DATALOGGER DATA
November, 1991

PUMPING					RECOVERY				
Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)
13-Nov-91	11:06:44 PM	11.207	420.00	8.11	15-Nov-91	08:35:44 PM	18.971	218.33	0.35
13-Nov-91	11:21:44 PM	11.207	435.00	8.11	15-Nov-91	08:40:44 PM	18.971	223.33	0.35
13-Nov-91	11:36:44 PM	11.196	450.00	8.12	15-Nov-91	08:45:44 PM	18.971	228.33	0.35
13-Nov-91	11:51:44 PM	11.175	465.00	8.14	15-Nov-91	08:50:44 PM	18.971	233.33	0.35
14-Nov-91	12:06:44 AM	11.185	480.00	8.13	15-Nov-91	08:55:44 PM	18.982	238.33	0.34
14-Nov-91	12:21:44 AM	11.185	495.00	8.13	15-Nov-91	09:00:44 PM	18.982	243.33	0.34
14-Nov-91	12:36:44 AM	11.175	510.00	8.14	15-Nov-91	09:05:44 PM	18.993	248.33	0.32
14-Nov-91	12:51:44 AM	11.185	525.00	8.13	15-Nov-91	09:10:44 PM	18.993	253.33	0.32
14-Nov-91	01:06:44 AM	11.185	540.00	8.13	15-Nov-91	09:15:44 PM	18.993	258.33	0.32
14-Nov-91	01:21:44 AM	11.185	555.00	8.13	15-Nov-91	09:20:44 PM	18.993	263.33	0.32
14-Nov-91	01:36:44 AM	11.164	570.00	8.15	15-Nov-91	09:25:44 PM	19.003	268.33	0.31
14-Nov-91	01:51:44 AM	11.164	585.00	8.15	15-Nov-91	09:30:44 PM	19.003	273.33	0.31
14-Nov-91	02:06:44 AM	11.164	600.00	8.15	15-Nov-91	09:35:44 PM	19.003	278.33	0.31
14-Nov-91	02:21:44 AM	11.164	615.00	8.15	15-Nov-91	09:40:44 PM	19.003	283.33	0.31
14-Nov-91	02:36:44 AM	11.153	630.00	8.16	15-Nov-91	09:45:44 PM	19.003	288.33	0.31
14-Nov-91	02:51:44 AM	11.164	645.00	8.15	15-Nov-91	09:50:44 PM	19.003	293.33	0.31
14-Nov-91	03:06:44 AM	11.164	660.00	8.15	15-Nov-91	09:55:44 PM	19.003	298.33	0.31
14-Nov-91	03:21:44 AM	11.185	675.00	8.13	15-Nov-91	10:00:44 PM	19.014	303.33	0.30
14-Nov-91	03:36:44 AM	11.175	690.00	8.14	15-Nov-91	10:05:44 PM	19.014	308.33	0.30
14-Nov-91	03:51:44 AM	11.175	705.00	8.14	15-Nov-91	10:10:44 PM	19.014	313.33	0.30
14-Nov-91	04:06:44 AM	11.164	720.00	8.15	15-Nov-91	10:15:44 PM	19.025	318.33	0.29
14-Nov-91	04:21:44 AM	11.164	735.00	8.15	15-Nov-91	10:20:44 PM	19.025	323.33	0.29
14-Nov-91	04:36:44 AM	11.164	750.00	8.15	15-Nov-91	10:25:44 PM	19.025	328.33	0.29
14-Nov-91	04:51:44 AM	11.153	765.00	8.16	15-Nov-91	10:30:44 PM	19.025	333.33	0.29
14-Nov-91	05:06:44 AM	11.175	780.00	8.14	15-Nov-91	10:35:44 PM	19.014	338.33	0.30
14-Nov-91	05:21:44 AM	11.164	795.00	8.15	15-Nov-91	10:40:44 PM	19.025	343.33	0.29
14-Nov-91	05:36:44 AM	11.164	810.00	8.15	15-Nov-91	10:45:44 PM	19.025	348.33	0.29
14-Nov-91	05:51:44 AM	11.175	825.00	8.14	15-Nov-91	10:50:44 PM	19.025	353.33	0.29
14-Nov-91	06:06:44 AM	11.164	840.00	8.15	15-Nov-91	10:55:44 PM	19.025	358.33	0.29
14-Nov-91	06:21:44 AM	11.175	855.00	8.14	15-Nov-91	11:00:44 PM	19.025	363.33	0.29
14-Nov-91	06:36:44 AM	11.164	870.00	8.15	15-Nov-91	11:05:44 PM	19.025	368.33	0.29
14-Nov-91	06:51:44 AM	11.142	885.00	8.18	15-Nov-91	11:10:44 PM	19.025	373.33	0.29
14-Nov-91	07:06:44 AM	11.142	900.00	8.18	15-Nov-91	11:15:44 PM	19.036	378.33	0.28
14-Nov-91	07:21:44 AM	11.142	915.00	8.18	15-Nov-91	11:20:44 PM	19.025	383.33	0.29
14-Nov-91	07:36:44 AM	11.153	930.00	8.16	15-Nov-91	11:25:44 PM	19.036	388.33	0.28
14-Nov-91	07:51:44 AM	11.153	945.00	8.16	15-Nov-91	11:30:44 PM	19.047	393.33	0.27
14-Nov-91	08:06:44 AM	11.142	960.00	8.18	15-Nov-91	11:35:44 PM	19.047	398.33	0.27
14-Nov-91	08:21:44 AM	11.142	975.00	8.18	15-Nov-91	11:40:44 PM	19.047	403.33	0.27
14-Nov-91	08:36:44 AM	11.153	990.00	8.16	15-Nov-91	11:45:44 PM	19.058	408.33	0.26
14-Nov-91	08:51:44 AM	11.153	1005.00	8.16	15-Nov-91	11:50:44 PM	19.047	413.33	0.27
14-Nov-91	09:06:44 AM	11.131	1020.00	8.19	15-Nov-91	11:55:45 PM	19.058	418.33	0.26
14-Nov-91	09:21:44 AM	11.12	1035.00	8.20	16-Nov-91	12:10:44 AM	19.058	433.33	0.26
14-Nov-91	09:36:44 AM	11.142	1050.00	8.18	16-Nov-91	12:25:44 AM	19.058	448.33	0.26
14-Nov-91	09:51:44 AM	11.142	1065.00	8.18	16-Nov-91	12:40:44 AM	19.058	463.33	0.26
14-Nov-91	10:06:44 AM	11.099	1080.00	8.22	16-Nov-91	12:55:44 AM	19.058	478.33	0.26
14-Nov-91	10:21:45 AM	11.131	1095.00	8.19	16-Nov-91	01:10:44 AM	19.068	493.33	0.25
14-Nov-91	10:36:44 AM	11.131	1110.00	8.19	16-Nov-91	01:25:44 AM	19.068	508.33	0.25
14-Nov-91	10:51:44 AM	11.131	1125.00	8.19	16-Nov-91	01:40:44 AM	19.068	523.33	0.25

UPRR SACRAMENTO
MW-4 DATALOGGER DATA
November, 1991

PUMPING					RECOVERY				
Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)
14-Nov-91	11:06:44 AM	11.12	1140.00	8.20	16-Nov-91	01:55:44 AM	19.068	538.33	0.25
14-Nov-91	11:21:44 AM	11.131	1155.00	8.19	16-Nov-91	02:10:44 AM	19.079	553.33	0.24
14-Nov-91	11:36:44 AM	11.131	1170.00	8.19	16-Nov-91	02:25:44 AM	19.09	568.33	0.23
14-Nov-91	11:51:44 AM	11.11	1185.00	8.21	16-Nov-91	02:40:44 AM	19.09	583.33	0.23
14-Nov-91	12:06:44 PM	11.12	1200.00	8.20	16-Nov-91	02:55:44 AM	19.09	598.33	0.23
14-Nov-91	12:21:44 PM	11.12	1215.00	8.20	16-Nov-91	03:10:44 AM	19.101	613.33	0.22
14-Nov-91	12:36:44 PM	11.131	1230.00	8.19	16-Nov-91	03:25:44 AM	19.101	628.33	0.22
14-Nov-91	12:51:44 PM	11.11	1245.00	8.21	16-Nov-91	03:40:44 AM	19.101	643.33	0.22
14-Nov-91	01:06:44 PM	11.099	1260.00	8.22	16-Nov-91	03:55:44 AM	19.101	658.33	0.22
14-Nov-91	01:21:44 PM	11.099	1275.00	8.22	16-Nov-91	04:10:44 AM	19.101	673.33	0.22
14-Nov-91	01:36:44 PM	11.12	1290.00	8.20	16-Nov-91	04:25:44 AM	19.101	688.33	0.22
14-Nov-91	01:51:44 PM	11.11	1305.00	8.21	16-Nov-91	04:40:44 AM	19.101	703.33	0.22
14-Nov-91	02:06:44 PM	11.099	1320.00	8.22	16-Nov-91	04:55:44 AM	19.112	718.33	0.21
14-Nov-91	02:21:44 PM	11.088	1335.00	8.23	16-Nov-91	05:10:44 AM	19.112	733.33	0.21
14-Nov-91	02:36:44 PM	11.066	1350.00	8.25	16-Nov-91	05:25:44 AM	19.112	748.33	0.21
14-Nov-91	02:51:44 PM	11.077	1365.00	8.24	16-Nov-91	05:40:44 AM	19.112	763.33	0.21
14-Nov-91	03:06:44 PM	11.012	1380.00	8.31	16-Nov-91	05:55:44 AM	19.122	778.33	0.20
14-Nov-91	03:21:44 PM	11.001	1395.00	8.32	16-Nov-91	06:10:44 AM	19.112	793.33	0.21
14-Nov-91	03:36:44 PM	11.001	1410.00	8.32	16-Nov-91	06:25:44 AM	19.122	808.33	0.20
14-Nov-91	03:51:44 PM	11.001	1425.00	8.32	16-Nov-91	06:40:44 AM	19.122	823.33	0.20
14-Nov-91	04:06:44 PM	11.012	1440.00	8.31	16-Nov-91	06:55:44 AM	19.112	838.33	0.21
14-Nov-91	04:21:44 PM	11.001	1455.00	8.32	16-Nov-91	07:10:44 AM	19.122	853.33	0.20
14-Nov-91	04:36:44 PM	11.001	1470.00	8.32	16-Nov-91	07:25:44 AM	19.122	868.33	0.20
14-Nov-91	04:51:44 PM	11.001	1485.00	8.32	16-Nov-91	07:40:44 AM	19.112	883.33	0.21
14-Nov-91	05:06:44 PM	11.001	1500.00	8.32	16-Nov-91	07:55:44 AM	19.122	898.33	0.20
14-Nov-91	05:21:44 PM	10.991	1515.00	8.33	16-Nov-91	08:10:44 AM	19.122	913.33	0.20
14-Nov-91	05:36:44 PM	10.969	1530.00	8.35	16-Nov-91	08:25:44 AM	19.133	928.33	0.18
14-Nov-91	05:51:44 PM	10.969	1545.00	8.35	16-Nov-91	08:40:44 AM	19.133	943.33	0.18
14-Nov-91	06:06:44 PM	10.969	1560.00	8.35	16-Nov-91	08:55:44 AM	19.144	958.33	0.17
14-Nov-91	06:21:44 PM	11.001	1575.00	8.32	16-Nov-91	09:10:44 AM	19.144	973.33	0.17
14-Nov-91	06:36:44 PM	10.969	1590.00	8.35	16-Nov-91	09:25:44 AM	19.155	988.33	0.16
14-Nov-91	06:51:44 PM	10.969	1605.00	8.35	16-Nov-91	09:40:44 AM	19.144	1003.33	0.17
14-Nov-91	07:06:44 PM	10.947	1620.00	8.37	16-Nov-91	09:55:44 AM	19.155	1018.33	0.16
14-Nov-91	07:21:44 PM	10.969	1635.00	8.35	16-Nov-91	10:10:44 AM	19.155	1033.33	0.16
14-Nov-91	07:36:44 PM	10.947	1650.00	8.37	16-Nov-91	10:25:44 AM	19.155	1048.33	0.16
14-Nov-91	07:51:44 PM	10.926	1665.00	8.39	16-Nov-91	10:40:44 AM	19.166	1063.33	0.15
14-Nov-91	08:06:44 PM	10.936	1680.00	8.38	16-Nov-91	10:55:44 AM	19.166	1078.33	0.15
14-Nov-91	08:21:44 PM	10.947	1695.00	8.37	16-Nov-91	11:10:44 AM	19.166	1093.33	0.15
14-Nov-91	08:36:44 PM	10.936	1710.00	8.38	16-Nov-91	11:25:44 AM	19.166	1108.33	0.15
14-Nov-91	08:51:44 PM	10.926	1725.00	8.39	16-Nov-91	11:40:44 AM	19.187	1123.33	0.13
14-Nov-91	09:06:44 PM	10.904	1740.00	8.41	16-Nov-91	11:55:44 AM	19.187	1138.33	0.13
14-Nov-91	09:21:44 PM	10.926	1755.00	8.39	16-Nov-91	12:10:44 PM	19.198	1153.33	0.12
14-Nov-91	09:36:44 PM	10.904	1770.00	8.41	16-Nov-91	12:25:44 PM	19.198	1168.33	0.12
14-Nov-91	09:51:44 PM	10.915	1785.00	8.40	16-Nov-91	12:40:44 PM	19.198	1183.33	0.12
14-Nov-91	10:06:44 PM	10.893	1800.00	8.42	16-Nov-91	12:55:44 PM	19.209	1198.33	0.11
14-Nov-91	10:21:44 PM	10.915	1815.00	8.40	16-Nov-91	01:10:44 PM	19.198	1213.33	0.12
14-Nov-91	10:36:44 PM	10.915	1830.00	8.40	16-Nov-91	01:25:44 PM	19.187	1228.33	0.13
14-Nov-91	10:51:44 PM	10.915	1845.00	8.40	16-Nov-91	01:40:44 PM	19.198	1243.33	0.12

UPRR SACRAMENTO
 MW-4 DATALOGGER DATA
 November, 1991

PUMPING					RECOVERY				
Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)
14-Nov-91	11:06:44 PM	10.904	1860.00	8.41	16-Nov-91	01:55:44 PM	19.198	1258.33	0.12
14-Nov-91	11:36:44 PM	10.904	1890.00	8.41	16-Nov-91	02:10:44 PM	19.209	1273.33	0.11
15-Nov-91	12:06:44 AM	10.893	1920.00	8.42	16-Nov-91	02:25:44 PM	19.209	1288.33	0.11
15-Nov-91	12:36:44 AM	10.882	1950.00	8.44	16-Nov-91	02:40:44 PM	19.198	1303.33	0.12
15-Nov-91	01:06:44 AM	10.871	1980.00	8.45	16-Nov-91	02:55:44 PM	19.198	1318.33	0.12
15-Nov-91	01:36:44 AM	10.871	2010.00	8.45	16-Nov-91	03:10:44 PM	19.198	1333.33	0.12
15-Nov-91	02:06:44 AM	10.861	2040.00	8.46	16-Nov-91	03:25:44 PM	19.209	1348.33	0.11
15-Nov-91	02:36:44 AM	10.861	2070.00	8.46	16-Nov-91	03:40:44 PM	19.198	1363.33	0.12
15-Nov-91	03:06:44 AM	10.85	2100.00	8.47	16-Nov-91	03:55:44 PM	19.198	1378.33	0.12
15-Nov-91	03:36:44 AM	10.85	2130.00	8.47	16-Nov-91	04:10:44 PM	19.198	1393.33	0.12
15-Nov-91	04:06:44 AM	10.817	2160.00	8.50	16-Nov-91	04:25:44 PM	19.198	1408.33	0.12
15-Nov-91	04:36:44 AM	10.839	2190.00	8.48	16-Nov-91	04:40:44 PM	19.198	1423.33	0.12
15-Nov-91	05:06:44 AM	10.85	2220.00	8.47	16-Nov-91	04:55:44 PM	19.198	1438.33	0.12
15-Nov-91	05:36:44 AM	10.85	2250.00	8.47	16-Nov-91	05:10:44 PM	19.209	1453.33	0.11
15-Nov-91	06:06:44 AM	10.828	2280.00	8.49	16-Nov-91	05:25:44 PM	19.231	1468.33	0.09
15-Nov-91	06:36:44 AM	10.839	2310.00	8.48	16-Nov-91	05:40:44 PM	19.209	1483.33	0.11
15-Nov-91	07:06:44 AM	10.839	2340.00	8.48	16-Nov-91	05:55:44 PM	19.22	1498.33	0.10
15-Nov-91	07:36:44 AM	10.817	2370.00	8.50	16-Nov-91	06:10:44 PM	19.198	1513.33	0.12
15-Nov-91	08:06:44 AM	10.817	2400.00	8.50	16-Nov-91	06:25:44 PM	19.198	1528.33	0.12
15-Nov-91	08:36:44 AM	10.828	2430.00	8.49	16-Nov-91	06:40:44 PM	19.198	1543.33	0.12
15-Nov-91	09:06:44 AM	10.839	2460.00	8.48	16-Nov-91	06:55:44 PM	19.198	1558.33	0.12
15-Nov-91	09:36:44 AM	10.817	2490.00	8.50	16-Nov-91	07:10:44 PM	19.231	1573.33	0.09
15-Nov-91	10:06:44 AM	10.817	2520.00	8.50	16-Nov-91	07:25:44 PM	19.22	1588.33	0.10
15-Nov-91	10:36:44 AM	10.806	2550.00	8.51	16-Nov-91	07:40:44 PM	19.242	1603.33	0.07
15-Nov-91	11:06:44 AM	10.828	2580.00	8.49	16-Nov-91	07:55:44 PM	19.22	1618.33	0.10
15-Nov-91	11:36:44 AM	10.785	2610.00	8.53	16-Nov-91	08:10:44 PM	19.22	1633.33	0.10
15-Nov-91	12:06:44 PM	10.785	2640.00	8.53	16-Nov-91	08:25:44 PM	19.231	1648.33	0.09
15-Nov-91	12:36:44 PM	10.817	2670.00	8.50	16-Nov-91	08:40:44 PM	19.22	1663.33	0.10
15-Nov-91	01:06:44 PM	10.806	2700.00	8.51	16-Nov-91	08:55:44 PM	19.22	1678.33	0.10
15-Nov-91	01:36:44 PM	10.785	2730.00	8.53	16-Nov-91	09:10:44 PM	19.22	1693.33	0.10
15-Nov-91	02:06:44 PM	10.796	2760.00	8.52	16-Nov-91	09:25:44 PM	19.231	1708.33	0.09
15-Nov-91	02:36:44 PM	10.774	2790.00	8.54	16-Nov-91	09:40:44 PM	19.242	1723.33	0.07
15-Nov-91	03:06:44 PM	10.752	2820.00	8.57	16-Nov-91	09:55:44 PM	19.242	1738.33	0.07
15-Nov-91	03:36:44 PM	10.742	2850.00	8.58	16-Nov-91	10:10:44 PM	19.242	1753.33	0.07
15-Nov-91	04:06:44 PM	10.752	2880.00	8.57	16-Nov-91	10:25:44 PM	19.242	1768.33	0.07
15-Nov-91	04:45:18 PM	10.731	2918.56	8.59	16-Nov-91	10:40:44 PM	19.242	1783.33	0.07
15-Nov-91	04:45:24 PM	10.742	2918.65	8.58	16-Nov-91	10:55:44 PM	19.242	1798.33	0.07
15-Nov-91	04:45:28 PM	10.752	2918.73	8.57	16-Nov-91	11:10:44 PM	19.252	1813.33	0.07
15-Nov-91	04:45:34 PM	10.742	2918.82	8.58	16-Nov-91	11:25:44 PM	19.252	1828.33	0.07
15-Nov-91	04:45:38 PM	10.731	2918.90	8.59	16-Nov-91	11:40:44 PM	19.252	1843.33	0.07
15-Nov-91	04:45:44 PM	10.742	2918.99	8.58	16-Nov-91	11:55:45 PM	19.252	1858.33	0.07
15-Nov-91	04:45:48 PM	10.731	2919.07	8.59	17-Nov-91	12:25:44 AM	19.263	1888.33	0.05
15-Nov-91	04:45:53 PM	10.742	2919.15	8.58	17-Nov-91	12:55:44 AM	19.263	1918.33	0.05
15-Nov-91	04:45:59 PM	10.742	2919.24	8.58	17-Nov-91	01:25:44 AM	19.252	1948.33	0.07
15-Nov-91	04:46:03 PM	10.752	2919.32	8.57	17-Nov-91	01:55:44 AM	19.252	1978.33	0.07
15-Nov-91	04:46:09 PM	10.742	2919.41	8.58	17-Nov-91	02:25:44 AM	19.263	2008.33	0.05
15-Nov-91	04:46:13 PM	10.763	2919.48	8.55	17-Nov-91	02:55:44 AM	19.263	2038.33	0.05
15-Nov-91	04:46:19 PM	10.742	2919.57	8.58	17-Nov-91	03:25:44 AM	19.263	2068.33	0.05

UPRR SACRAMENTO
 MW-4 DATALOGGER DATA
 November, 1991

PUMPING					RECOVERY				
Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)
15-Nov-91	04:46:23 PM	10.731	2919.65	8.59	17-Nov-91	03:55:44 AM	19.252	2098.33	0.07
15-Nov-91	04:46:28 PM	10.742	2919.73	8.58	17-Nov-91	04:25:44 AM	19.252	2128.33	0.07
15-Nov-91	04:46:34 PM	10.731	2919.82	8.59	17-Nov-91	04:55:44 AM	19.263	2158.33	0.05
15-Nov-91	04:46:38 PM	10.763	2919.90	8.55	17-Nov-91	05:25:44 AM	19.252	2188.33	0.07
15-Nov-91	04:46:44 PM	10.731	2919.99	8.59	17-Nov-91	05:55:44 AM	19.242	2218.33	0.07
15-Nov-91	04:46:48 PM	10.742	2920.07	8.58	17-Nov-91	06:25:44 AM	19.263	2248.33	0.05
15-Nov-91	04:46:54 PM	10.752	2920.16	8.57	17-Nov-91	06:55:44 AM	19.263	2278.33	0.05
15-Nov-91	04:46:58 PM	10.752	2920.23	8.57	17-Nov-91	07:25:44 AM	19.263	2308.33	0.05
15-Nov-91	04:47:03 PM	10.731	2920.32	8.59	17-Nov-91	07:55:44 AM	19.263	2338.33	0.05
15-Nov-91	04:47:09 PM	10.752	2920.40	8.57	17-Nov-91	08:25:44 AM	19.263	2368.33	0.05
15-Nov-91	04:47:13 PM	10.742	2920.48	8.58	17-Nov-91	08:55:44 AM	19.263	2398.33	0.05
15-Nov-91	04:47:19 PM	10.752	2920.57	8.57	17-Nov-91	09:25:44 AM	19.263	2428.33	0.05
15-Nov-91	04:47:23 PM	10.72	2920.65	8.60	17-Nov-91	09:55:44 AM	19.242	2458.33	0.07
15-Nov-91	04:47:29 PM	10.731	2920.74	8.59	17-Nov-91	10:25:44 AM	19.263	2488.33	0.05
15-Nov-91	04:47:33 PM	10.731	2920.82	8.59	17-Nov-91	10:55:44 AM	19.263	2518.33	0.05
15-Nov-91	04:47:38 PM	10.731	2920.90	8.59	17-Nov-91	11:25:44 AM	19.274	2548.33	0.04
15-Nov-91	04:47:44 PM	10.742	2920.99	8.58	17-Nov-91	11:55:44 AM	19.274	2578.33	0.04
15-Nov-91	04:47:48 PM	10.752	2921.07	8.57	17-Nov-91	12:25:44 PM	19.285	2608.33	0.03
15-Nov-91	04:47:54 PM	10.742	2921.16	8.58	17-Nov-91	12:55:44 PM	19.274	2638.33	0.04
15-Nov-91	04:47:58 PM	10.742	2921.23	8.58	17-Nov-91	01:25:44 PM	19.285	2668.33	0.03
15-Nov-91	04:48:04 PM	10.742	2921.32	8.58	17-Nov-91	01:55:44 PM	19.274	2698.33	0.04
15-Nov-91	04:48:08 PM	10.742	2921.40	8.58	17-Nov-91	02:25:44 PM	19.274	2728.33	0.04
15-Nov-91	04:48:13 PM	10.763	2921.48	8.55					
15-Nov-91	04:48:19 PM	10.742	2921.57	8.58					
15-Nov-91	04:48:23 PM	10.742	2921.65	8.58					
15-Nov-91	04:48:29 PM	10.742	2921.74	8.58					
15-Nov-91	04:48:33 PM	10.742	2921.82	8.58					
15-Nov-91	04:48:39 PM	10.742	2921.91	8.58					
15-Nov-91	04:48:43 PM	10.731	2921.98	8.59					
15-Nov-91	04:48:48 PM	10.742	2922.07	8.58					
15-Nov-91	04:48:54 PM	10.742	2922.16	8.58					
15-Nov-91	04:48:58 PM	10.731	2922.23	8.59					
15-Nov-91	04:49:04 PM	10.731	2922.32	8.59					
15-Nov-91	04:49:08 PM	10.742	2922.40	8.58					
15-Nov-91	04:49:14 PM	10.731	2922.49	8.59					
15-Nov-91	04:49:18 PM	10.742	2922.57	8.58					
15-Nov-91	04:49:23 PM	10.742	2922.65	8.58					
15-Nov-91	04:49:29 PM	10.752	2922.74	8.57					
15-Nov-91	04:49:33 PM	10.752	2922.82	8.57					
15-Nov-91	04:49:39 PM	10.731	2922.90	8.59					
15-Nov-91	04:49:43 PM	10.752	2922.98	8.57					
15-Nov-91	04:49:49 PM	10.731	2923.07	8.59					
15-Nov-91	04:49:53 PM	10.742	2923.15	8.58					
15-Nov-91	04:49:58 PM	10.731	2923.23	8.59					
15-Nov-91	04:50:04 PM	10.731	2923.32	8.59					
15-Nov-91	04:50:08 PM	10.731	2923.40	8.59					
15-Nov-91	04:50:14 PM	10.731	2923.49	8.59					
15-Nov-91	04:50:18 PM	10.752	2923.57	8.57					

UPRR SACRAMENTO
 MW-4 DATALOGGER DATA
 November, 1991

PUMPING					RECOVERY				
Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)
15-Nov-91	04:50:24 PM	10.742	2923.66	8.58					
15-Nov-91	04:50:28 PM	10.742	2923.73	8.58					
15-Nov-91	04:50:33 PM	10.742	2923.82	8.58					
15-Nov-91	04:50:39 PM	10.742	2923.91	8.58					
15-Nov-91	04:50:43 PM	10.752	2923.98	8.57					
15-Nov-91	04:50:49 PM	10.731	2924.07	8.59					
15-Nov-91	04:50:53 PM	10.731	2924.15	8.59					
15-Nov-91	04:50:59 PM	10.763	2924.24	8.55					
15-Nov-91	04:51:03 PM	10.742	2924.32	8.58					
15-Nov-91	04:51:08 PM	10.752	2924.40	8.57					
15-Nov-91	04:51:14 PM	10.752	2924.49	8.57					
15-Nov-91	04:51:18 PM	10.752	2924.57	8.57					
15-Nov-91	04:51:24 PM	10.742	2924.66	8.58					
15-Nov-91	04:51:28 PM	10.742	2924.73	8.58					
15-Nov-91	04:51:34 PM	10.742	2924.82	8.58					
15-Nov-91	04:51:38 PM	10.742	2924.90	8.58					
15-Nov-91	04:51:43 PM	10.752	2924.98	8.57					
15-Nov-91	04:51:49 PM	10.742	2925.07	8.58					
15-Nov-91	04:51:53 PM	10.742	2925.15	8.58					
15-Nov-91	04:51:59 PM	10.742	2925.24	8.58					
15-Nov-91	04:52:03 PM	10.731	2925.32	8.59					
15-Nov-91	04:52:09 PM	10.752	2925.40	8.57					
15-Nov-91	04:52:13 PM	10.742	2925.48	8.58					
15-Nov-91	04:52:18 PM	10.742	2925.57	8.58					
15-Nov-91	04:52:24 PM	10.742	2925.66	8.58					
15-Nov-91	04:52:28 PM	10.752	2925.73	8.57					
15-Nov-91	04:52:34 PM	10.742	2925.82	8.58					
15-Nov-91	04:52:38 PM	10.752	2925.90	8.57					
15-Nov-91	04:52:44 PM	10.742	2925.99	8.58					
15-Nov-91	04:52:48 PM	10.742	2926.07	8.58					
15-Nov-91	04:52:53 PM	10.752	2926.15	8.57					
15-Nov-91	04:52:59 PM	10.742	2926.24	8.58					
15-Nov-91	04:53:03 PM	10.752	2926.32	8.57					
15-Nov-91	04:53:09 PM	10.752	2926.41	8.57					
15-Nov-91	04:53:13 PM	10.742	2926.48	8.58					
15-Nov-91	04:53:19 PM	10.731	2926.57	8.59					
15-Nov-91	04:53:23 PM	10.763	2926.65	8.55					
15-Nov-91	04:53:28 PM	10.742	2926.73	8.58					
15-Nov-91	04:53:34 PM	10.742	2926.82	8.58					
15-Nov-91	04:53:38 PM	10.752	2926.90	8.57					
15-Nov-91	04:53:44 PM	10.763	2926.99	8.55					
15-Nov-91	04:53:48 PM	10.752	2927.06	8.57					
15-Nov-91	04:53:54 PM	10.731	2927.15	8.59					
15-Nov-91	04:53:58 PM	10.752	2927.23	8.57					
15-Nov-91	04:54:03 PM	10.731	2927.32	8.59					
15-Nov-91	04:54:09 PM	10.752	2927.40	8.57					
15-Nov-91	04:54:13 PM	10.752	2927.48	8.57					
15-Nov-91	04:54:19 PM	10.72	2927.57	8.60					

UPRR SACRAMENTO
 MW-4 DATALOGGER DATA
 November, 1991

PUMPING					RECOVERY				
Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)
15-Nov-91	04:54:23 PM	10.742	2927.65	8.58					
15-Nov-91	04:54:29 PM	10.731	2927.74	8.59					
15-Nov-91	04:54:33 PM	10.742	2927.82	8.58					
15-Nov-91	04:54:38 PM	10.742	2927.90	8.58					
15-Nov-91	04:54:44 PM	10.763	2927.99	8.55					
15-Nov-91	04:54:48 PM	10.742	2928.07	8.58					
15-Nov-91	04:54:54 PM	10.742	2928.16	8.58					
15-Nov-91	04:55:44 PM	10.731	2929.00	8.59					
15-Nov-91	04:55:50 PM	10.742	2929.09	8.58					
15-Nov-91	04:55:54 PM	10.742	2929.17	8.58					
15-Nov-91	04:55:59 PM	10.731	2929.25	8.59					
15-Nov-91	04:56:05 PM	10.752	2929.34	8.57					
15-Nov-91	04:56:09 PM	10.731	2929.42	8.59					
15-Nov-91	04:56:15 PM	10.731	2929.51	8.59					
15-Nov-91	04:56:19 PM	10.742	2929.58	8.58					
15-Nov-91	04:56:25 PM	10.731	2929.67	8.59					
15-Nov-91	04:56:29 PM	10.731	2929.75	8.59					
15-Nov-91	04:56:34 PM	10.742	2929.83	8.58					
15-Nov-91	04:56:40 PM	10.731	2929.92	8.59					
15-Nov-91	04:56:44 PM	10.752	2930.00	8.57					
15-Nov-91	04:56:50 PM	10.731	2930.09	8.59					
15-Nov-91	04:56:54 PM	10.742	2930.17	8.58					
15-Nov-91	04:57:00 PM	10.742	2930.26	8.58					
15-Nov-91	04:57:04 PM	10.742	2930.33	8.58					
15-Nov-91	04:57:09 PM	10.731	2930.42	8.59					
15-Nov-91	04:57:15 PM	10.72	2930.51	8.60					
15-Nov-91	04:57:19 PM	10.742	2930.58	8.58					

UPRR SACRAMENTO
 MW-11 DATALOGGER DATA
 November, 1991

PUMPING

RECOVERY

Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
						16-Nov-91	06:25:44 AM	9.2256	808.33	0.11	70
						16-Nov-91	06:40:44 AM	9.2328	823.33	0.10	69
						16-Nov-91	06:55:44 AM	9.24	838.33	0.09	68
						16-Nov-91	07:10:44 AM	9.2436	853.33	0.09	67
						16-Nov-91	07:25:44 AM	9.2364	868.33	0.10	66
						16-Nov-91	07:40:44 AM	9.2328	883.33	0.10	64
						16-Nov-91	07:55:44 AM	9.2328	898.33	0.10	63
						16-Nov-91	08:10:44 AM	9.24	913.33	0.09	62
						16-Nov-91	08:25:44 AM	9.2364	928.33	0.10	61
						16-Nov-91	08:40:44 AM	9.24	943.33	0.09	60
						16-Nov-91	08:55:44 AM	9.2472	958.33	0.09	59
						16-Nov-91	09:10:44 AM	9.2472	973.33	0.09	58
						16-Nov-91	09:25:44 AM	9.258	988.33	0.08	58
						16-Nov-91	09:40:44 AM	9.2544	1003.33	0.08	57
						16-Nov-91	09:55:44 AM	9.258	1018.33	0.08	56
						16-Nov-91	10:10:44 AM	9.258	1033.33	0.08	55
						16-Nov-91	10:25:44 AM	9.2617	1048.33	0.07	54
						16-Nov-91	10:40:44 AM	9.2689	1063.33	0.07	54
						16-Nov-91	10:55:44 AM	9.2653	1078.33	0.07	53
						16-Nov-91	11:10:44 AM	9.2617	1093.33	0.07	52
						16-Nov-91	11:25:44 AM	9.2689	1108.33	0.07	51
						16-Nov-91	11:40:44 AM	9.2869	1123.33	0.05	51
						16-Nov-91	11:55:44 AM	9.2833	1138.33	0.05	50
						16-Nov-91	12:10:44 PM	9.2725	1153.33	0.06	49
						16-Nov-91	12:25:44 PM	9.2941	1168.33	0.04	49
						16-Nov-91	12:40:44 PM	9.3266	1183.33	0.01	48
						16-Nov-91	12:55:44 PM	9.323	1198.33	0.01	47
						16-Nov-91	01:10:44 PM	9.2978	1213.33	0.04	47
						16-Nov-91	01:25:44 PM	9.2978	1228.33	0.04	46
						16-Nov-91	01:40:44 PM	9.305	1243.33	0.03	46
						16-Nov-91	01:55:44 PM	9.305	1258.33	0.03	45
						16-Nov-91	02:10:44 PM	9.3086	1273.33	0.03	45
						16-Nov-91	02:25:44 PM	9.3086	1288.33	0.03	44
						16-Nov-91	02:40:44 PM	9.3014	1303.33	0.03	44
						16-Nov-91	02:55:44 PM	9.305	1318.33	0.03	43
						16-Nov-91	03:10:44 PM	9.305	1333.33	0.03	43
						16-Nov-91	03:25:44 PM	9.3122	1348.33	0.02	42
						16-Nov-91	03:40:44 PM	9.305	1363.33	0.03	42
						16-Nov-91	03:55:44 PM	9.3014	1378.33	0.03	41
						16-Nov-91	04:10:44 PM	9.3014	1393.33	0.03	41
						16-Nov-91	04:25:44 PM	9.305	1408.33	0.03	40
						16-Nov-91	04:40:44 PM	9.2978	1423.33	0.04	40
						16-Nov-91	04:55:44 PM	9.305	1438.33	0.03	40
						16-Nov-91	05:10:44 PM	9.2941	1453.33	0.04	39
						16-Nov-91	05:25:44 PM	9.3014	1468.33	0.03	39
						16-Nov-91	05:40:44 PM	9.2905	1483.33	0.04	38

UPRR SACRAMENTO
 MW-11 DATALOGGER DATA
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RECOVERY

Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
						16-Nov-91	05:55:44 PM	9.2941	1498.33	0.04	38
						16-Nov-91	06:10:44 PM	9.2833	1513.33	0.05	38
						16-Nov-91	06:25:44 PM	9.2869	1528.33	0.05	37
						16-Nov-91	06:40:44 PM	9.2833	1543.33	0.05	37
						16-Nov-91	06:55:44 PM	9.2869	1558.33	0.05	37
						16-Nov-91	07:10:44 PM	9.305	1573.33	0.03	36
						16-Nov-91	07:25:44 PM	9.2941	1588.33	0.04	36
						16-Nov-91	07:40:44 PM	9.3122	1603.33	0.02	35
						16-Nov-91	07:55:44 PM	9.2941	1618.33	0.04	35
						16-Nov-91	08:10:44 PM	9.2978	1633.33	0.04	35
						16-Nov-91	08:25:44 PM	9.305	1648.33	0.03	35
						16-Nov-91	08:40:44 PM	9.3014	1663.33	0.03	34
						16-Nov-91	08:55:44 PM	9.305	1678.33	0.03	34
						16-Nov-91	09:10:44 PM	9.305	1693.33	0.03	34
						16-Nov-91	09:25:44 PM	9.3122	1708.33	0.02	33
						16-Nov-91	09:40:44 PM	9.3122	1723.33	0.02	33
						16-Nov-91	09:55:44 PM	9.3158	1738.33	0.02	33
						16-Nov-91	10:10:44 PM	9.3122	1753.33	0.02	32
						16-Nov-91	10:25:44 PM	9.3122	1768.33	0.02	32
						16-Nov-91	10:40:44 PM	9.3158	1783.33	0.02	32
						16-Nov-91	10:55:44 PM	9.3194	1798.33	0.01	32
						16-Nov-91	11:10:44 PM	9.3375	1813.33	0.00	31
						16-Nov-91	11:25:44 PM	9.3194	1828.33	0.01	31
						16-Nov-91	11:40:44 PM	9.3266	1843.33	0.01	31
						16-Nov-91	11:55:45 PM	9.3266	1858.33	0.01	31
						17-Nov-91	12:25:44 AM	9.3338	1888.33	0.00	30
						17-Nov-91	12:55:44 AM	9.3338	1918.33	0.00	30
						17-Nov-91	01:25:44 AM	9.3338	1948.33	0.00	29
						17-Nov-91	01:55:44 AM	9.3338	1978.33	0.00	29
						17-Nov-91	02:25:44 AM	9.3338	2008.33	0.00	28
						17-Nov-91	02:55:44 AM	9.3375	2038.33	0.00	28
						17-Nov-91	03:25:44 AM	9.3411	2068.33	-0.01	28
						17-Nov-91	03:55:44 AM	9.3302	2098.33	0.00	27
						17-Nov-91	04:25:44 AM	9.3266	2128.33	0.01	27
						17-Nov-91	04:55:44 AM	9.3375	2158.33	0.00	26
						17-Nov-91	05:25:44 AM	9.3302	2188.33	0.00	26
						17-Nov-91	05:55:44 AM	9.3194	2218.33	0.01	26
						17-Nov-91	06:25:44 AM	9.3302	2248.33	0.00	25
						17-Nov-91	06:55:44 AM	9.3447	2278.33	-0.01	25
						17-Nov-91	07:25:44 AM	9.3411	2308.33	-0.01	25
						17-Nov-91	07:55:44 AM	9.3411	2338.33	-0.01	24
						17-Nov-91	08:25:44 AM	9.3411	2368.33	-0.01	24
						17-Nov-91	08:55:44 AM	9.3411	2398.33	-0.01	24
						17-Nov-91	09:25:44 AM	9.3411	2428.33	-0.01	23
						17-Nov-91	09:55:44 AM	9.3302	2458.33	0.00	23
						17-Nov-91	10:25:44 AM	9.3447	2488.33	-0.01	23

UPRR SACRAMENTO
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Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
						17-Nov-91	10:55:44 AM	9.3375	2518.33	0.00	23
						17-Nov-91	11:25:44 AM	9.3194	2548.33	0.01	22
						17-Nov-91	11:55:44 AM	9.3555	2578.33	-0.02	22
						17-Nov-91	12:25:44 PM	9.3555	2608.33	-0.02	22
						17-Nov-91	12:55:44 PM	9.3447	2638.33	-0.01	22
						17-Nov-91	01:25:44 PM	9.3302	2668.33	0.00	21
						17-Nov-91	01:55:44 PM	9.3447	2698.33	-0.01	21
						17-Nov-91	02:25:44 PM	9.3338	2728.33	0.00	21

UPRR SACRAMENTO
MW-12 DATALOGGER DATA
November, 1991

PUMPING

DRAWDOWN

Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
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UPRR SACRAMENTO
MW-12 DATALOGGER DATA
November, 1991

PUMPING

DRAWDOWN

Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
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13-Nov-91	04:06:44	PM	19.11	0.00	0.00	--	15-Nov-91	04:57:25	PM	18.83	0.00	0.28	--
13-Nov-91	04:06:54	PM	19.12	0.17	-0.01	5876	15-Nov-91	04:57:29	PM	18.83	0.08	0.27	12623
13-Nov-91	04:07:04	PM	19.11	0.33	0.00	2938	15-Nov-91	04:57:35	PM	18.83	0.17	0.27	5876
13-Nov-91	04:07:14	PM	19.11	0.50	0.00	1964	15-Nov-91	04:57:39	PM	18.83	0.24	0.27	4010
13-Nov-91	04:07:24	PM	19.11	0.67	0.00	1472	15-Nov-91	04:57:44	PM	18.83	0.33	0.27	2990
13-Nov-91	04:07:34	PM	19.11	0.83	0.00	1177	15-Nov-91	04:57:50	PM	18.83	0.42	0.27	2359
13-Nov-91	04:07:44	PM	19.11	1.00	0.00	981	15-Nov-91	04:57:54	PM	18.83	0.50	0.27	1982
13-Nov-91	04:07:54	PM	19.11	1.17	0.00	842	15-Nov-91	04:58:00	PM	18.83	0.58	0.27	1683
13-Nov-91	04:08:04	PM	19.11	1.33	0.00	736	15-Nov-91	04:58:04	PM	18.83	0.66	0.27	1485
13-Nov-91	04:08:14	PM	19.11	1.50	0.00	654	15-Nov-91	04:58:10	PM	18.83	0.75	0.27	1308
13-Nov-91	04:08:24	PM	19.11	1.67	0.00	589	15-Nov-91	04:58:14	PM	18.83	0.83	0.27	1185
13-Nov-91	04:08:34	PM	19.11	1.83	0.00	535	15-Nov-91	04:58:19	PM	18.83	0.91	0.27	1077
13-Nov-91	04:08:44	PM	19.11	2.00	0.00	491	15-Nov-91	04:58:25	PM	18.83	1.00	0.27	982
13-Nov-91	04:08:54	PM	19.11	2.17	0.00	453	15-Nov-91	04:58:29	PM	18.83	1.08	0.27	910
13-Nov-91	04:09:04	PM	19.11	2.33	0.00	421	15-Nov-91	04:58:35	PM	18.83	1.17	0.27	842
13-Nov-91	04:09:14	PM	19.11	2.50	0.00	393	15-Nov-91	04:58:39	PM	18.83	1.24	0.27	789
13-Nov-91	04:09:24	PM	19.09	2.67	0.01	368	15-Nov-91	04:58:45	PM	18.83	1.33	0.27	736
13-Nov-91	04:09:34	PM	19.10	2.83	0.01	346	15-Nov-91	04:58:49	PM	18.83	1.41	0.27	696
13-Nov-91	04:09:44	PM	19.09	3.00	0.01	327	15-Nov-91	04:58:54	PM	18.83	1.49	0.27	657
13-Nov-91	04:09:54	PM	19.10	3.17	0.01	310	15-Nov-91	04:59:00	PM	18.83	1.58	0.27	620
13-Nov-91	04:10:04	PM	19.09	3.33	0.01	294	15-Nov-91	04:59:04	PM	18.83	1.66	0.27	591
13-Nov-91	04:10:14	PM	19.09	3.50	0.01	280	15-Nov-91	04:59:10	PM	18.83	1.75	0.27	561
13-Nov-91	04:10:24	PM	19.10	3.67	0.01	268	15-Nov-91	04:59:14	PM	18.83	1.83	0.27	537
13-Nov-91	04:10:34	PM	19.09	3.83	0.01	256	15-Nov-91	04:59:20	PM	18.83	1.92	0.27	512
13-Nov-91	04:10:44	PM	19.09	4.00	0.01	245	15-Nov-91	04:59:24	PM	18.83	1.99	0.27	492
13-Nov-91	04:10:54	PM	19.09	4.17	0.01	236	15-Nov-91	04:59:29	PM	18.84	2.08	0.27	472
13-Nov-91	04:11:04	PM	19.09	4.33	0.01	227	15-Nov-91	04:59:35	PM	18.83	2.17	0.27	453
13-Nov-91	04:11:14	PM	19.09	4.50	0.02	218	15-Nov-91	04:59:39	PM	18.84	2.24	0.27	437
13-Nov-91	04:11:24	PM	19.09	4.67	0.01	210	15-Nov-91	04:59:45	PM	18.83	2.33	0.27	421
13-Nov-91	04:11:34	PM	19.09	4.83	0.02	203	15-Nov-91	04:59:49	PM	18.84	2.41	0.27	407
13-Nov-91	04:11:44	PM	19.09	5.00	0.02	196	15-Nov-91	04:59:55	PM	18.84	2.50	0.27	393
13-Nov-91	04:11:54	PM	19.09	5.17	0.02	190	15-Nov-91	04:59:59	PM	18.84	2.58	0.27	381
13-Nov-91	04:12:04	PM	19.09	5.33	0.02	184	15-Nov-91	05:00:04	PM	18.84	2.66	0.27	369
13-Nov-91	04:12:14	PM	19.09	5.50	0.02	178	15-Nov-91	05:00:10	PM	18.84	2.75	0.27	357
13-Nov-91	04:12:24	PM	19.09	5.67	0.02	173	15-Nov-91	05:00:14	PM	18.84	2.83	0.27	347
13-Nov-91	04:12:34	PM	19.09	5.83	0.02	168	15-Nov-91	05:00:20	PM	18.84	2.92	0.27	337

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Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
13-Nov-91	04:12:44 PM	19.08	6.00	0.03	164	15-Nov-91	05:00:24 PM	18.84	3.00	0.27	328
13-Nov-91	04:12:54 PM	19.08	6.17	0.03	159	15-Nov-91	05:00:30 PM	18.84	3.08	0.27	318
13-Nov-91	04:13:04 PM	19.08	6.33	0.03	155	15-Nov-91	05:00:34 PM	18.85	3.16	0.26	311
13-Nov-91	04:13:14 PM	19.08	6.50	0.03	151	15-Nov-91	05:00:39 PM	18.85	3.24	0.26	303
13-Nov-91	04:13:24 PM	19.08	6.67	0.03	147	15-Nov-91	05:00:45 PM	18.85	3.33	0.26	294
13-Nov-91	04:13:34 PM	19.08	6.83	0.03	144	15-Nov-91	05:00:49 PM	18.84	3.41	0.27	288
13-Nov-91	04:13:44 PM	19.09	7.00	0.02	140	15-Nov-91	05:00:55 PM	18.85	3.50	0.26	281
13-Nov-91	04:13:54 PM	19.07	7.17	0.04	137	15-Nov-91	05:00:59 PM	18.85	3.58	0.26	274
13-Nov-91	04:14:04 PM	19.07	7.33	0.04	134	15-Nov-91	05:01:05 PM	18.85	3.67	0.26	268
13-Nov-91	04:14:14 PM	19.07	7.50	0.04	131	15-Nov-91	05:01:09 PM	18.85	3.75	0.26	262
13-Nov-91	04:14:24 PM	19.07	7.67	0.04	128	15-Nov-91	05:01:14 PM	18.85	3.83	0.26	256
13-Nov-91	04:14:34 PM	19.07	7.83	0.04	125	15-Nov-91	05:01:20 PM	18.85	3.92	0.26	251
13-Nov-91	04:14:44 PM	19.07	8.00	0.04	123	15-Nov-91	05:01:24 PM	18.85	3.99	0.26	246
13-Nov-91	04:14:54 PM	19.07	8.17	0.04	120	15-Nov-91	05:01:30 PM	18.85	4.08	0.26	240
13-Nov-91	04:15:04 PM	19.07	8.33	0.04	118	15-Nov-91	05:01:34 PM	18.85	4.16	0.26	236
13-Nov-91	04:15:14 PM	19.07	8.50	0.04	115	15-Nov-91	05:01:40 PM	18.85	4.25	0.26	231
13-Nov-91	04:15:24 PM	19.07	8.67	0.04	113	15-Nov-91	05:01:44 PM	18.85	4.33	0.26	227
13-Nov-91	04:15:34 PM	19.07	8.83	0.04	111	15-Nov-91	05:01:49 PM	18.85	4.41	0.26	222
13-Nov-91	04:15:44 PM	19.07	9.00	0.04	109	15-Nov-91	05:01:55 PM	18.85	4.50	0.26	218
13-Nov-91	04:15:54 PM	19.07	9.17	0.04	107	15-Nov-91	05:01:59 PM	18.85	4.58	0.26	214
13-Nov-91	04:16:04 PM	19.07	9.33	0.04	105	15-Nov-91	05:02:05 PM	18.86	4.67	0.25	210
13-Nov-91	04:16:14 PM	19.07	9.50	0.04	103	15-Nov-91	05:02:09 PM	18.85	4.74	0.26	207
13-Nov-91	04:16:24 PM	19.07	9.67	0.04	102	15-Nov-91	05:02:15 PM	18.86	4.84	0.25	203
13-Nov-91	04:16:34 PM	19.07	9.83	0.04	100	15-Nov-91	05:02:19 PM	18.86	4.91	0.25	200
13-Nov-91	04:16:44 PM	19.07	10.00	0.04	98	15-Nov-91	05:02:24 PM	18.86	5.00	0.25	196
13-Nov-91	04:17:14 PM	19.07	10.50	0.04	93	15-Nov-91	05:02:30 PM	18.86	5.08	0.25	193
13-Nov-91	04:17:44 PM	19.07	11.00	0.04	89	15-Nov-91	05:02:34 PM	18.86	5.16	0.25	190
13-Nov-91	04:18:14 PM	19.06	11.50	0.05	85	15-Nov-91	05:02:40 PM	18.86	5.25	0.25	187
13-Nov-91	04:18:44 PM	19.06	12.00	0.05	82	15-Nov-91	05:02:44 PM	18.86	5.33	0.25	184
13-Nov-91	04:19:14 PM	19.06	12.50	0.05	79	15-Nov-91	05:02:49 PM	18.86	5.41	0.25	181
13-Nov-91	04:19:44 PM	19.05	13.00	0.06	76	15-Nov-91	05:02:55 PM	18.86	5.50	0.25	178
13-Nov-91	04:20:14 PM	19.06	13.50	0.05	73	15-Nov-91	05:02:59 PM	18.86	5.58	0.25	176
13-Nov-91	04:20:44 PM	19.05	14.00	0.06	70	15-Nov-91	05:03:05 PM	18.86	5.67	0.25	173
13-Nov-91	04:21:14 PM	19.05	14.50	0.06	68	15-Nov-91	05:03:09 PM	18.86	5.74	0.25	171
13-Nov-91	04:21:44 PM	19.05	15.00	0.06	65	15-Nov-91	05:03:15 PM	18.86	5.83	0.25	168
13-Nov-91	04:22:14 PM	19.04	15.50	0.07	63	15-Nov-91	05:03:19 PM	18.86	5.91	0.25	166
13-Nov-91	04:22:44 PM	19.05	16.00	0.06	61	15-Nov-91	05:03:24 PM	18.86	5.99	0.25	164
13-Nov-91	04:23:14 PM	19.04	16.50	0.07	59	15-Nov-91	05:03:30 PM	18.86	6.08	0.25	161
13-Nov-91	04:23:44 PM	19.04	17.00	0.07	58	15-Nov-91	05:03:34 PM	18.86	6.16	0.25	159
13-Nov-91	04:24:14 PM	19.04	17.50	0.07	56	15-Nov-91	05:03:40 PM	18.86	6.25	0.25	157
13-Nov-91	04:24:44 PM	19.04	18.00	0.07	55	15-Nov-91	05:03:44 PM	18.86	6.33	0.25	155
13-Nov-91	04:25:14 PM	19.04	18.50	0.07	53	15-Nov-91	05:03:50 PM	18.86	6.42	0.25	153
13-Nov-91	04:25:44 PM	19.04	19.00	0.07	52	15-Nov-91	05:03:54 PM	18.86	6.49	0.25	151
13-Nov-91	04:26:14 PM	19.04	19.50	0.07	50	15-Nov-91	05:03:59 PM	18.86	6.58	0.25	149
13-Nov-91	04:26:44 PM	19.04	20.00	0.07	49	15-Nov-91	05:04:05 PM	18.86	6.67	0.25	147
13-Nov-91	04:27:14 PM	19.04	20.50	0.07	48	15-Nov-91	05:04:09 PM	18.86	6.74	0.25	146

UPRR SACRAMENTO
MW-12 DATALOGGER DATA
November, 1991

PUMPING						DRAWDOWN					
Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
13-Nov-91	04:27:44 PM	19.04	21.00	0.07	47	15-Nov-91	05:04:15 PM	18.86	6.83	0.25	144
13-Nov-91	04:28:14 PM	19.04	21.50	0.07	46	15-Nov-91	05:04:19 PM	18.86	6.91	0.25	142
13-Nov-91	04:28:44 PM	19.04	22.00	0.07	45	15-Nov-91	05:04:25 PM	18.87	7.00	0.24	140
13-Nov-91	04:29:14 PM	19.04	22.50	0.07	44	15-Nov-91	05:04:29 PM	18.86	7.08	0.25	139
13-Nov-91	04:29:44 PM	19.04	23.00	0.07	43	15-Nov-91	05:04:34 PM	18.87	7.16	0.24	137
13-Nov-91	04:30:14 PM	19.04	23.50	0.07	42	15-Nov-91	05:04:40 PM	18.86	7.25	0.25	135
13-Nov-91	04:30:44 PM	19.03	24.00	0.08	41	15-Nov-91	05:04:44 PM	18.86	7.33	0.25	134
13-Nov-91	04:31:14 PM	19.03	24.50	0.08	40	15-Nov-91	05:04:50 PM	18.87	7.42	0.24	132
13-Nov-91	04:31:44 PM	19.03	25.00	0.08	39	15-Nov-91	05:04:54 PM	18.87	7.50	0.24	131
13-Nov-91	04:32:14 PM	19.04	25.50	0.07	38	15-Nov-91	05:05:00 PM	18.87	7.58	0.24	129
13-Nov-91	04:32:44 PM	19.03	26.00	0.08	38	15-Nov-91	05:05:04 PM	18.87	7.66	0.24	128
13-Nov-91	04:33:14 PM	19.03	26.50	0.08	37	15-Nov-91	05:05:09 PM	18.88	7.74	0.23	127
13-Nov-91	04:33:44 PM	19.03	27.00	0.08	36	15-Nov-91	05:05:15 PM	18.86	7.83	0.25	125
13-Nov-91	04:34:14 PM	19.03	27.50	0.08	36	15-Nov-91	05:05:19 PM	18.86	7.91	0.25	124
13-Nov-91	04:34:44 PM	19.03	28.00	0.08	35	15-Nov-91	05:05:25 PM	18.86	8.00	0.25	123
13-Nov-91	04:35:14 PM	19.03	28.50	0.08	34	15-Nov-91	05:05:29 PM	18.86	8.08	0.25	122
13-Nov-91	04:35:44 PM	19.02	29.00	0.09	34	15-Nov-91	05:05:35 PM	18.87	8.17	0.24	120
13-Nov-91	04:36:14 PM	19.03	29.50	0.08	33	15-Nov-91	05:05:39 PM	18.86	8.25	0.25	119
13-Nov-91	04:36:44 PM	19.03	30.00	0.08	33	15-Nov-91	05:05:44 PM	18.87	8.33	0.24	118
13-Nov-91	04:37:14 PM	19.03	30.50	0.08	32	15-Nov-91	05:06:14 PM	18.87	8.83	0.24	111
13-Nov-91	04:37:44 PM	19.03	31.00	0.08	32	15-Nov-91	05:06:44 PM	18.87	9.33	0.24	105
13-Nov-91	04:38:14 PM	19.02	31.50	0.09	31	15-Nov-91	05:07:14 PM	18.88	9.83	0.23	100
13-Nov-91	04:38:44 PM	19.02	32.00	0.09	31	15-Nov-91	05:07:44 PM	18.88	10.33	0.23	95
13-Nov-91	04:39:14 PM	19.03	32.50	0.08	30	15-Nov-91	05:08:14 PM	18.88	10.83	0.23	91
13-Nov-91	04:39:44 PM	19.01	33.00	0.09	30	15-Nov-91	05:08:44 PM	18.88	11.33	0.23	87
13-Nov-91	04:40:14 PM	19.02	33.50	0.09	29	15-Nov-91	05:09:14 PM	18.88	11.83	0.22	83
13-Nov-91	04:40:44 PM	19.01	34.00	0.09	29	15-Nov-91	05:09:44 PM	18.89	12.33	0.22	80
13-Nov-91	04:41:14 PM	19.01	34.50	0.09	28	15-Nov-91	05:10:14 PM	18.88	12.83	0.23	77
13-Nov-91	04:41:44 PM	19.01	35.00	0.09	28	15-Nov-91	05:10:44 PM	18.88	13.33	0.22	74
13-Nov-91	04:42:14 PM	19.01	35.50	0.09	28	15-Nov-91	05:11:14 PM	18.89	13.83	0.22	71
13-Nov-91	04:42:44 PM	19.01	36.00	0.09	27	15-Nov-91	05:11:44 PM	18.89	14.33	0.22	69
13-Nov-91	04:43:14 PM	19.01	36.50	0.09	27	15-Nov-91	05:12:14 PM	18.89	14.83	0.22	66
13-Nov-91	04:43:44 PM	19.01	37.00	0.09	27	15-Nov-91	05:12:44 PM	18.89	15.33	0.22	64
13-Nov-91	04:44:14 PM	19.01	37.50	0.09	26	15-Nov-91	05:13:14 PM	18.89	15.83	0.22	62
13-Nov-91	04:44:44 PM	19.01	38.00	0.09	26	15-Nov-91	05:13:44 PM	18.89	16.33	0.22	60
13-Nov-91	04:45:14 PM	19.01	38.50	0.09	25	15-Nov-91	05:14:14 PM	18.89	16.83	0.22	58
13-Nov-91	04:45:44 PM	19.01	39.00	0.09	25	15-Nov-91	05:14:44 PM	18.90	17.33	0.21	57
13-Nov-91	04:46:14 PM	19.01	39.50	0.10	25	15-Nov-91	05:15:14 PM	18.89	17.83	0.22	55
13-Nov-91	04:46:44 PM	19.01	40.00	0.10	25	15-Nov-91	05:15:44 PM	18.89	18.33	0.22	54
13-Nov-91	04:47:14 PM	19.01	40.50	0.10	24	15-Nov-91	05:16:14 PM	18.89	18.83	0.22	52
13-Nov-91	04:47:44 PM	19.01	41.00	0.09	24	15-Nov-91	05:16:44 PM	18.89	19.33	0.22	51
13-Nov-91	04:48:14 PM	19.01	41.50	0.10	24	15-Nov-91	05:17:14 PM	18.90	19.83	0.21	50
13-Nov-91	04:48:44 PM	19.01	42.00	0.10	23	15-Nov-91	05:17:44 PM	18.90	20.33	0.21	48
13-Nov-91	04:49:14 PM	19.01	42.50	0.10	23	15-Nov-91	05:18:14 PM	18.90	20.83	0.21	47
13-Nov-91	04:49:44 PM	19.03	43.00	0.08	23	15-Nov-91	05:18:44 PM	18.90	21.33	0.21	46
13-Nov-91	04:50:14 PM	19.01	43.50	0.10	23	15-Nov-91	05:19:14 PM	18.90	21.83	0.21	45

UPRR SACRAMENTO
MW-12 DATALOGGER DATA
November, 1991

PUMPING

DRAWDOWN

PUMPING					DRAWDOWN						
Date	Time	Head	Elapsed Time (min.)	Drawdown r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown r ² /t (ft ² /min)		
13-Nov-91	04:50:44 PM	19.01	44.00	0.10	22	15-Nov-91	05:19:44 PM	18.91	22.33	0.20	44
13-Nov-91	04:51:14 PM	19.01	44.50	0.10	22	15-Nov-91	05:20:14 PM	18.90	22.83	0.21	43
13-Nov-91	04:51:44 PM	19.01	45.00	0.10	22	15-Nov-91	05:20:44 PM	18.90	23.33	0.21	42
13-Nov-91	04:52:14 PM	19.01	45.50	0.10	22	15-Nov-91	05:21:14 PM	18.90	23.83	0.21	41
13-Nov-91	04:52:44 PM	19.01	46.00	0.10	21	15-Nov-91	05:21:44 PM	18.91	24.33	0.20	40
13-Nov-91	04:53:14 PM	19.01	46.50	0.10	21	15-Nov-91	05:22:14 PM	18.90	24.83	0.21	40
13-Nov-91	04:53:44 PM	19.01	47.00	0.10	21	15-Nov-91	05:22:44 PM	18.91	25.33	0.20	39
13-Nov-91	04:54:14 PM	19.01	47.50	0.10	21	15-Nov-91	05:23:14 PM	18.91	25.83	0.20	38
13-Nov-91	04:54:44 PM	19.01	48.00	0.10	20	15-Nov-91	05:23:44 PM	18.91	26.33	0.20	37
13-Nov-91	04:55:14 PM	19.01	48.50	0.10	20	15-Nov-91	05:24:14 PM	18.91	26.83	0.20	37
13-Nov-91	04:55:44 PM	19.01	49.00	0.10	20	15-Nov-91	05:24:44 PM	18.91	27.33	0.20	36
13-Nov-91	04:56:14 PM	19.01	49.50	0.10	20	15-Nov-91	05:25:14 PM	18.91	27.83	0.20	35
13-Nov-91	04:56:44 PM	19.01	50.00	0.10	20	15-Nov-91	05:25:44 PM	18.91	28.33	0.20	35
13-Nov-91	04:57:14 PM	19.01	50.50	0.10	19	15-Nov-91	05:26:14 PM	18.91	28.83	0.20	34
13-Nov-91	04:57:44 PM	19.00	51.00	0.11	19	15-Nov-91	05:26:44 PM	18.91	29.33	0.20	33
13-Nov-91	04:58:14 PM	19.01	51.50	0.10	19	15-Nov-91	05:27:14 PM	18.91	29.83	0.20	33
13-Nov-91	04:58:44 PM	19.00	52.00	0.11	19	15-Nov-91	05:27:44 PM	18.91	30.33	0.20	32
13-Nov-91	04:59:14 PM	19.00	52.50	0.11	19	15-Nov-91	05:28:14 PM	18.91	30.83	0.20	32
13-Nov-91	04:59:44 PM	19.01	53.00	0.10	19	15-Nov-91	05:28:44 PM	18.91	31.33	0.20	31
13-Nov-91	05:00:14 PM	19.00	53.50	0.11	18	15-Nov-91	05:29:14 PM	18.91	31.83	0.20	31
13-Nov-91	05:00:44 PM	19.00	54.00	0.11	18	15-Nov-91	05:29:44 PM	18.91	32.33	0.20	30
13-Nov-91	05:01:14 PM	18.99	54.50	0.12	18	15-Nov-91	05:30:14 PM	18.91	32.83	0.20	30
13-Nov-91	05:01:44 PM	19.00	55.00	0.11	18	15-Nov-91	05:30:44 PM	18.92	33.33	0.19	29
13-Nov-91	05:02:14 PM	18.99	55.50	0.12	18	15-Nov-91	05:31:14 PM	18.91	33.83	0.20	29
13-Nov-91	05:02:44 PM	18.99	56.00	0.12	18	15-Nov-91	05:31:44 PM	18.92	34.33	0.19	29
13-Nov-91	05:03:14 PM	18.99	56.50	0.12	17	15-Nov-91	05:32:14 PM	18.91	34.83	0.20	28
13-Nov-91	05:03:44 PM	18.99	57.00	0.12	17	15-Nov-91	05:32:44 PM	18.92	35.33	0.19	28
13-Nov-91	05:04:14 PM	18.99	57.50	0.12	17	15-Nov-91	05:33:14 PM	18.92	35.83	0.19	27
13-Nov-91	05:04:44 PM	18.99	58.00	0.12	17	15-Nov-91	05:33:44 PM	18.92	36.33	0.19	27
13-Nov-91	05:05:14 PM	18.99	58.50	0.12	17	15-Nov-91	05:34:14 PM	18.92	36.83	0.19	27
13-Nov-91	05:05:44 PM	18.99	59.00	0.12	17	15-Nov-91	05:34:44 PM	18.92	37.33	0.19	26
13-Nov-91	05:06:14 PM	18.99	59.50	0.12	16	15-Nov-91	05:35:14 PM	18.92	37.83	0.19	26
13-Nov-91	05:06:44 PM	18.99	60.00	0.12	16	15-Nov-91	05:35:44 PM	18.92	38.33	0.19	26
13-Nov-91	05:07:44 PM	18.99	61.00	0.12	16	15-Nov-91	05:36:14 PM	18.92	38.83	0.19	25
13-Nov-91	05:08:44 PM	18.99	62.00	0.12	16	15-Nov-91	05:36:44 PM	18.92	39.33	0.19	25
13-Nov-91	05:09:44 PM	18.99	63.00	0.12	16	15-Nov-91	05:37:14 PM	18.92	39.83	0.19	25
13-Nov-91	05:10:44 PM	18.99	64.00	0.12	15	15-Nov-91	05:37:44 PM	18.93	40.33	0.18	24
13-Nov-91	05:11:44 PM	18.99	65.00	0.12	15	15-Nov-91	05:38:14 PM	18.93	40.83	0.18	24
13-Nov-91	05:12:44 PM	18.99	66.00	0.12	15	15-Nov-91	05:38:44 PM	18.92	41.33	0.19	24
13-Nov-91	05:13:44 PM	18.99	67.00	0.12	15	15-Nov-91	05:39:14 PM	18.93	41.83	0.18	23
13-Nov-91	05:14:44 PM	18.99	68.00	0.12	14	15-Nov-91	05:39:44 PM	18.93	42.33	0.18	23
13-Nov-91	05:15:44 PM	18.99	69.00	0.12	14	15-Nov-91	05:40:14 PM	18.93	42.83	0.18	23
13-Nov-91	05:16:44 PM	18.99	70.00	0.12	14	15-Nov-91	05:40:44 PM	18.94	43.33	0.17	23
13-Nov-91	05:17:44 PM	18.99	71.00	0.12	14	15-Nov-91	05:41:14 PM	18.94	43.83	0.17	22
13-Nov-91	05:18:44 PM	18.99	72.00	0.12	14	15-Nov-91	05:41:44 PM	18.92	44.33	0.19	22
13-Nov-91	05:19:44 PM	18.99	73.00	0.12	13	15-Nov-91	05:42:14 PM	18.94	44.83	0.17	22

UPRR SACRAMENTO
MW-12 DATALOGGER DATA
November, 1991

PUMPING

DRAWDOWN

PUMPING					DRAWDOWN						
Date	Time	Head	Elapsed Time (min.)	Drawdown r ² /t (feet) (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown r ² /t (feet) (ft ² /min)		
13-Nov-91	05:20:44 PM	18.99	74.00	0.12	13	15-Nov-91	05:42:44 PM	18.94	45.33	0.17	22
13-Nov-91	05:21:44 PM	18.99	75.00	0.12	13	15-Nov-91	05:43:14 PM	18.94	45.83	0.17	21
13-Nov-91	05:22:44 PM	18.99	76.00	0.12	13	15-Nov-91	05:43:44 PM	18.94	46.33	0.17	21
13-Nov-91	05:23:44 PM	18.99	77.00	0.12	13	15-Nov-91	05:44:14 PM	18.94	46.83	0.17	21
13-Nov-91	05:24:44 PM	18.99	78.00	0.12	13	15-Nov-91	05:44:44 PM	18.94	47.33	0.17	21
13-Nov-91	05:25:44 PM	18.99	79.00	0.12	12	15-Nov-91	05:45:14 PM	18.93	47.83	0.18	21
13-Nov-91	05:26:44 PM	18.99	80.00	0.12	12	15-Nov-91	05:45:44 PM	18.94	48.33	0.17	20
13-Nov-91	05:27:44 PM	18.99	81.00	0.12	12	15-Nov-91	05:46:14 PM	18.94	48.83	0.17	20
13-Nov-91	05:28:44 PM	18.99	82.00	0.12	12	15-Nov-91	05:46:44 PM	18.94	49.33	0.17	20
13-Nov-91	05:29:44 PM	18.99	83.00	0.12	12	15-Nov-91	05:47:14 PM	18.94	49.83	0.17	20
13-Nov-91	05:30:44 PM	18.99	84.00	0.12	12	15-Nov-91	05:47:44 PM	18.94	50.33	0.17	20
13-Nov-91	05:31:44 PM	18.99	85.00	0.12	12	15-Nov-91	05:48:14 PM	18.94	50.83	0.17	19
13-Nov-91	05:32:44 PM	18.99	86.00	0.12	11	15-Nov-91	05:48:44 PM	18.94	51.33	0.17	19
13-Nov-91	05:33:44 PM	18.99	87.00	0.12	11	15-Nov-91	05:49:14 PM	18.94	51.83	0.17	19
13-Nov-91	05:34:44 PM	18.99	88.00	0.12	11	15-Nov-91	05:49:44 PM	18.94	52.33	0.17	19
13-Nov-91	05:35:44 PM	18.99	89.00	0.12	11	15-Nov-91	05:50:14 PM	18.94	52.83	0.17	19
13-Nov-91	05:36:44 PM	18.99	90.00	0.12	11	15-Nov-91	05:50:44 PM	18.94	53.33	0.17	18
13-Nov-91	05:37:44 PM	18.99	91.00	0.12	11	15-Nov-91	05:51:14 PM	18.94	53.83	0.17	18
13-Nov-91	05:38:44 PM	18.99	92.00	0.12	11	15-Nov-91	05:51:44 PM	18.94	54.33	0.17	18
13-Nov-91	05:39:44 PM	18.98	93.00	0.13	11	15-Nov-91	05:52:14 PM	18.94	54.83	0.17	18
13-Nov-91	05:40:44 PM	18.99	94.00	0.12	10	15-Nov-91	05:52:44 PM	18.94	55.33	0.17	18
13-Nov-91	05:41:44 PM	18.99	95.00	0.12	10	15-Nov-91	05:53:14 PM	18.94	55.83	0.17	18
13-Nov-91	05:42:44 PM	18.99	96.00	0.12	10	15-Nov-91	05:53:44 PM	18.94	56.33	0.17	17
13-Nov-91	05:43:44 PM	18.99	97.00	0.12	10	15-Nov-91	05:54:14 PM	18.94	56.83	0.17	17
13-Nov-91	05:44:44 PM	18.98	98.00	0.13	10	15-Nov-91	05:54:44 PM	18.94	57.33	0.17	17
13-Nov-91	05:45:44 PM	18.98	99.00	0.13	10	15-Nov-91	05:55:14 PM	18.94	57.83	0.17	17
13-Nov-91	05:46:44 PM	18.98	100.00	0.13	10	15-Nov-91	05:55:45 PM	18.94	58.33	0.17	17
13-Nov-91	05:47:44 PM	18.98	101.00	0.13	10	15-Nov-91	05:56:44 PM	18.94	59.33	0.17	17
13-Nov-91	05:48:44 PM	18.98	102.00	0.13	10	15-Nov-91	05:57:44 PM	18.94	60.33	0.17	16
13-Nov-91	05:49:44 PM	18.98	103.00	0.13	10	15-Nov-91	05:58:44 PM	18.94	61.33	0.17	16
13-Nov-91	05:50:44 PM	18.98	104.00	0.13	9	15-Nov-91	05:59:44 PM	18.94	62.33	0.17	16
13-Nov-91	05:51:44 PM	18.98	105.00	0.13	9	15-Nov-91	06:00:44 PM	18.94	63.33	0.17	15
13-Nov-91	05:52:44 PM	18.98	106.00	0.13	9	15-Nov-91	06:01:44 PM	18.94	64.33	0.17	15
13-Nov-91	05:53:44 PM	18.98	107.00	0.13	9	15-Nov-91	06:02:44 PM	18.94	65.33	0.17	15
13-Nov-91	05:54:44 PM	18.98	108.00	0.13	9	15-Nov-91	06:03:44 PM	18.94	66.33	0.17	15
13-Nov-91	05:55:44 PM	18.98	109.00	0.13	9	15-Nov-91	06:04:44 PM	18.94	67.33	0.17	15
13-Nov-91	05:56:44 PM	18.98	110.00	0.13	9	15-Nov-91	06:05:44 PM	18.94	68.33	0.17	14
13-Nov-91	05:57:44 PM	18.98	111.00	0.13	9	15-Nov-91	06:06:44 PM	18.94	69.33	0.17	14
13-Nov-91	05:58:44 PM	18.98	112.00	0.13	9	15-Nov-91	06:07:44 PM	18.94	70.33	0.17	14
13-Nov-91	05:59:44 PM	18.98	113.00	0.13	9	15-Nov-91	06:08:44 PM	18.94	71.33	0.17	14
13-Nov-91	06:00:44 PM	18.98	114.00	0.13	9	15-Nov-91	06:09:44 PM	18.94	72.33	0.17	14
13-Nov-91	06:01:44 PM	18.98	115.00	0.13	9	15-Nov-91	06:10:44 PM	18.94	73.33	0.17	13
13-Nov-91	06:02:44 PM	18.98	116.00	0.13	8	15-Nov-91	06:11:44 PM	18.94	74.33	0.17	13
13-Nov-91	06:03:44 PM	18.98	117.00	0.13	8	15-Nov-91	06:12:44 PM	18.95	75.33	0.16	13
13-Nov-91	06:04:44 PM	18.98	118.00	0.13	8	15-Nov-91	06:13:44 PM	18.94	76.33	0.17	13
13-Nov-91	06:05:44 PM	18.98	119.00	0.13	8	15-Nov-91	06:14:44 PM	18.94	77.33	0.17	13

UPRR SACRAMENTO
 MW-12 DATALOGGER DATA
 November, 1991

PUMPING

DRAWDOWN

PUMPING					DRAWDOWN						
Date	Time	Head	Elapsed Time (min.)	Drawdown r ² /t (feet) (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown r ² /t (feet) (ft ² /min)		
13-Nov-91	06:06:45 PM	18.98	120.00	0.13	8	15-Nov-91	06:15:44 PM	18.94	78.33	0.17	13
13-Nov-91	06:11:44 PM	18.97	125.00	0.14	8	15-Nov-91	06:16:44 PM	18.94	79.33	0.17	12
13-Nov-91	06:16:44 PM	18.97	130.00	0.14	8	15-Nov-91	06:17:44 PM	18.94	80.33	0.17	12
13-Nov-91	06:21:44 PM	18.97	135.00	0.14	7	15-Nov-91	06:18:44 PM	18.94	81.33	0.17	12
13-Nov-91	06:26:44 PM	18.97	140.00	0.14	7	15-Nov-91	06:19:44 PM	18.95	82.33	0.16	12
13-Nov-91	06:31:44 PM	18.97	145.00	0.14	7	15-Nov-91	06:20:44 PM	18.94	83.33	0.17	12
13-Nov-91	06:36:44 PM	18.97	150.00	0.14	7	15-Nov-91	06:21:44 PM	18.95	84.33	0.16	12
13-Nov-91	06:41:44 PM	18.97	155.00	0.14	6	15-Nov-91	06:22:44 PM	18.94	85.33	0.17	12
13-Nov-91	06:46:44 PM	18.96	160.00	0.14	6	15-Nov-91	06:23:44 PM	18.95	86.33	0.16	11
13-Nov-91	06:51:44 PM	18.96	165.00	0.14	6	15-Nov-91	06:24:44 PM	18.95	87.33	0.16	11
13-Nov-91	06:56:44 PM	18.96	170.00	0.14	6	15-Nov-91	06:25:44 PM	18.95	88.33	0.16	11
13-Nov-91	07:01:44 PM	18.96	175.00	0.14	6	15-Nov-91	06:26:44 PM	18.95	89.33	0.16	11
13-Nov-91	07:06:44 PM	18.97	180.00	0.14	5	15-Nov-91	06:27:44 PM	18.95	90.33	0.16	11
13-Nov-91	07:11:44 PM	18.96	185.00	0.14	5	15-Nov-91	06:28:44 PM	18.95	91.33	0.16	11
13-Nov-91	07:16:44 PM	18.96	190.00	0.14	5	15-Nov-91	06:29:44 PM	18.94	92.33	0.17	11
13-Nov-91	07:21:44 PM	18.96	195.00	0.15	5	15-Nov-91	06:30:44 PM	18.94	93.33	0.17	11
13-Nov-91	07:26:44 PM	18.96	200.00	0.15	5	15-Nov-91	06:31:44 PM	18.94	94.33	0.17	10
13-Nov-91	07:31:44 PM	18.96	205.00	0.15	5	15-Nov-91	06:32:44 PM	18.94	95.33	0.17	10
13-Nov-91	07:36:44 PM	18.96	210.00	0.15	5	15-Nov-91	06:33:44 PM	18.94	96.33	0.17	10
13-Nov-91	07:41:44 PM	18.96	215.00	0.15	5	15-Nov-91	06:34:44 PM	18.94	97.33	0.17	10
13-Nov-91	07:46:44 PM	18.96	220.00	0.15	4	15-Nov-91	06:35:44 PM	18.94	98.33	0.17	10
13-Nov-91	07:51:44 PM	18.95	225.00	0.16	4	15-Nov-91	06:36:44 PM	18.94	99.33	0.17	10
13-Nov-91	07:56:44 PM	18.96	230.00	0.15	4	15-Nov-91	06:37:44 PM	18.94	100.33	0.17	10
13-Nov-91	08:01:44 PM	18.95	235.00	0.16	4	15-Nov-91	06:38:44 PM	18.94	101.33	0.17	10
13-Nov-91	08:06:44 PM	18.95	240.00	0.16	4	15-Nov-91	06:39:44 PM	18.94	102.33	0.17	10
13-Nov-91	08:11:44 PM	18.95	245.00	0.16	4	15-Nov-91	06:40:44 PM	18.94	103.33	0.17	9
13-Nov-91	08:16:44 PM	18.95	250.00	0.16	4	15-Nov-91	06:41:44 PM	18.94	104.33	0.17	9
13-Nov-91	08:21:44 PM	18.95	255.00	0.16	4	15-Nov-91	06:42:44 PM	18.95	105.33	0.16	9
13-Nov-91	08:26:44 PM	18.95	260.00	0.16	4	15-Nov-91	06:43:44 PM	18.94	106.33	0.17	9
13-Nov-91	08:31:44 PM	18.95	265.00	0.16	4	15-Nov-91	06:44:44 PM	18.95	107.33	0.16	9
13-Nov-91	08:36:44 PM	18.95	270.00	0.16	4	15-Nov-91	06:45:44 PM	18.94	108.33	0.17	9
13-Nov-91	08:41:44 PM	18.95	275.00	0.16	4	15-Nov-91	06:46:44 PM	18.94	109.33	0.17	9
13-Nov-91	08:46:44 PM	18.95	280.00	0.16	4	15-Nov-91	06:47:44 PM	18.94	110.33	0.17	9
13-Nov-91	08:51:44 PM	18.95	285.00	0.16	3	15-Nov-91	06:48:44 PM	18.95	111.33	0.16	9
13-Nov-91	08:56:44 PM	18.95	290.00	0.16	3	15-Nov-91	06:49:44 PM	18.94	112.33	0.17	9
13-Nov-91	09:01:44 PM	18.95	295.00	0.16	3	15-Nov-91	06:50:44 PM	18.94	113.33	0.17	9
13-Nov-91	09:06:44 PM	18.95	300.00	0.16	3	15-Nov-91	06:51:44 PM	18.94	114.33	0.17	9
13-Nov-91	09:11:44 PM	18.95	305.00	0.16	3	15-Nov-91	06:52:44 PM	18.94	115.33	0.17	9
13-Nov-91	09:16:44 PM	18.95	310.00	0.16	3	15-Nov-91	06:53:44 PM	18.94	116.33	0.17	8
13-Nov-91	09:21:44 PM	18.95	315.00	0.16	3	15-Nov-91	06:54:44 PM	18.94	117.33	0.17	8
13-Nov-91	09:26:44 PM	18.95	320.00	0.16	3	15-Nov-91	06:55:44 PM	18.95	118.33	0.16	8
13-Nov-91	09:31:44 PM	18.96	325.00	0.15	3	15-Nov-91	07:00:44 PM	18.95	123.33	0.16	8
13-Nov-91	09:36:44 PM	18.96	330.00	0.15	3	15-Nov-91	07:05:44 PM	18.95	128.33	0.16	8
13-Nov-91	09:41:44 PM	18.95	335.00	0.16	3	15-Nov-91	07:10:44 PM	18.95	133.33	0.16	7
13-Nov-91	09:46:44 PM	18.95	340.00	0.16	3	15-Nov-91	07:15:44 PM	18.95	138.33	0.16	7
13-Nov-91	09:51:44 PM	18.95	345.00	0.16	3	15-Nov-91	07:20:44 PM	18.95	143.33	0.16	7

UPRR SACRAMENTO
 MW-12 DATALOGGER DATA
 November, 1991

PUMPING

DRAWDOWN

PUMPING					DRAWDOWN						
Date	Time	Head	Elapsed Time (min.)	Drawdown r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown r ² /t (ft ² /min)		
13-Nov-91	09:56:44 PM	18.95	350.00	0.16	3	15-Nov-91	07:25:44 PM	18.96	148.33	0.15	7
13-Nov-91	10:01:44 PM	18.95	355.00	0.16	3	15-Nov-91	07:30:44 PM	18.96	153.33	0.14	6
13-Nov-91	10:06:44 PM	18.95	360.00	0.16	3	15-Nov-91	07:35:44 PM	18.96	158.33	0.14	6
13-Nov-91	10:11:44 PM	18.94	365.00	0.17	3	15-Nov-91	07:40:44 PM	18.96	163.33	0.14	6
13-Nov-91	10:16:44 PM	18.95	370.00	0.16	3	15-Nov-91	07:45:44 PM	18.96	168.33	0.14	6
13-Nov-91	10:21:44 PM	18.95	375.00	0.16	3	15-Nov-91	07:50:44 PM	18.96	173.33	0.14	6
13-Nov-91	10:26:44 PM	18.95	380.00	0.16	3	15-Nov-91	07:55:44 PM	18.96	178.33	0.14	6
13-Nov-91	10:31:44 PM	18.95	385.00	0.16	3	15-Nov-91	08:00:44 PM	18.97	183.33	0.14	5
13-Nov-91	10:36:44 PM	18.95	390.00	0.16	3	15-Nov-91	08:05:44 PM	18.96	188.33	0.14	5
13-Nov-91	10:41:44 PM	18.94	395.00	0.17	2	15-Nov-91	08:10:44 PM	18.97	193.33	0.14	5
13-Nov-91	10:46:44 PM	18.95	400.00	0.16	2	15-Nov-91	08:15:44 PM	18.96	198.33	0.14	5
13-Nov-91	10:51:44 PM	18.94	405.00	0.17	2	15-Nov-91	08:20:44 PM	18.97	203.33	0.14	5
13-Nov-91	10:56:44 PM	18.95	410.00	0.16	2	15-Nov-91	08:25:44 PM	18.97	208.33	0.14	5
13-Nov-91	11:01:44 PM	18.94	415.00	0.17	2	15-Nov-91	08:30:44 PM	18.98	213.33	0.13	5
13-Nov-91	11:06:44 PM	18.94	420.00	0.17	2	15-Nov-91	08:35:44 PM	18.97	218.33	0.14	4
13-Nov-91	11:21:44 PM	18.94	435.00	0.17	2	15-Nov-91	08:40:44 PM	18.97	223.33	0.14	4
13-Nov-91	11:36:44 PM	18.94	450.00	0.17	2	15-Nov-91	08:45:44 PM	18.97	228.33	0.14	4
13-Nov-91	11:51:44 PM	18.94	465.00	0.17	2	15-Nov-91	08:50:44 PM	18.97	233.33	0.14	4
14-Nov-91	12:06:44 AM	18.94	480.00	0.17	2	15-Nov-91	08:55:44 PM	18.97	238.33	0.14	4
14-Nov-91	12:21:44 AM	18.94	495.00	0.17	2	15-Nov-91	09:00:44 PM	18.97	243.33	0.14	4
14-Nov-91	12:36:44 AM	18.94	510.00	0.17	2	15-Nov-91	09:05:44 PM	18.97	248.33	0.14	4
14-Nov-91	12:51:44 AM	18.94	525.00	0.17	2	15-Nov-91	09:10:44 PM	18.97	253.33	0.14	4
14-Nov-91	01:06:44 AM	18.94	540.00	0.17	2	15-Nov-91	09:15:44 PM	18.97	258.33	0.14	4
14-Nov-91	01:21:44 AM	18.93	555.00	0.18	2	15-Nov-91	09:20:44 PM	18.98	263.33	0.13	4
14-Nov-91	01:36:44 AM	18.93	570.00	0.18	2	15-Nov-91	09:25:44 PM	18.98	268.33	0.13	4
14-Nov-91	01:51:44 AM	18.92	585.00	0.19	2	15-Nov-91	09:30:44 PM	18.98	273.33	0.13	4
14-Nov-91	02:06:44 AM	18.92	600.00	0.19	2	15-Nov-91	09:35:44 PM	18.98	278.33	0.13	4
14-Nov-91	02:21:44 AM	18.92	615.00	0.19	2	15-Nov-91	09:40:44 PM	18.98	283.33	0.13	3
14-Nov-91	02:36:44 AM	18.92	630.00	0.19	2	15-Nov-91	09:45:44 PM	18.98	288.33	0.13	3
14-Nov-91	02:51:44 AM	18.92	645.00	0.19	2	15-Nov-91	09:50:44 PM	18.98	293.33	0.13	3
14-Nov-91	03:06:44 AM	18.92	660.00	0.19	1	15-Nov-91	09:55:44 PM	18.98	298.33	0.13	3
14-Nov-91	03:21:44 AM	18.92	675.00	0.19	1	15-Nov-91	10:00:44 PM	18.98	303.33	0.13	3
14-Nov-91	03:36:44 AM	18.92	690.00	0.19	1	15-Nov-91	10:05:44 PM	18.98	308.33	0.13	3
14-Nov-91	03:51:44 AM	18.92	705.00	0.19	1	15-Nov-91	10:10:44 PM	18.99	313.33	0.12	3
14-Nov-91	04:06:44 AM	18.92	720.00	0.19	1	15-Nov-91	10:15:44 PM	18.99	318.33	0.12	3
14-Nov-91	04:21:44 AM	18.92	735.00	0.19	1	15-Nov-91	10:20:44 PM	18.99	323.33	0.12	3
14-Nov-91	04:36:44 AM	18.91	750.00	0.20	1	15-Nov-91	10:25:44 PM	18.99	328.33	0.12	3
14-Nov-91	04:51:44 AM	18.91	765.00	0.20	1	15-Nov-91	10:30:44 PM	18.99	333.33	0.12	3
14-Nov-91	05:06:44 AM	18.91	780.00	0.20	1	15-Nov-91	10:35:44 PM	18.99	338.33	0.12	3
14-Nov-91	05:21:44 AM	18.91	795.00	0.20	1	15-Nov-91	10:40:44 PM	18.99	343.33	0.12	3
14-Nov-91	05:36:44 AM	18.91	810.00	0.20	1	15-Nov-91	10:45:44 PM	18.98	348.33	0.13	3
14-Nov-91	05:51:44 AM	18.91	825.00	0.20	1	15-Nov-91	10:50:44 PM	18.98	353.33	0.13	3
14-Nov-91	06:06:44 AM	18.91	840.00	0.20	1	15-Nov-91	10:55:44 PM	18.99	358.33	0.12	3
14-Nov-91	06:21:44 AM	18.91	855.00	0.20	1	15-Nov-91	11:00:44 PM	18.98	363.33	0.13	3
14-Nov-91	06:36:44 AM	18.91	870.00	0.20	1	15-Nov-91	11:05:44 PM	18.98	368.33	0.13	3
14-Nov-91	06:51:44 AM	18.91	885.00	0.20	1	15-Nov-91	11:10:44 PM	18.98	373.33	0.13	3

UPRR SACRAMENTO
 MW-12 DATALOGGER DATA
 November, 1991

PUMPING

DRAWDOWN

Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
14-Nov-91	07:06:44 AM	18.91	900.00	0.20	1	15-Nov-91	11:15:44 PM	18.99	378.33	0.12	3
14-Nov-91	07:21:44 AM	18.91	915.00	0.20	1	15-Nov-91	11:20:44 PM	18.98	383.33	0.13	3
14-Nov-91	07:36:44 AM	18.91	930.00	0.20	1	15-Nov-91	11:25:44 PM	18.98	388.33	0.13	3
14-Nov-91	07:51:44 AM	18.90	945.00	0.21	1	15-Nov-91	11:30:44 PM	18.99	393.33	0.12	2
14-Nov-91	08:06:44 AM	18.90	960.00	0.21	1	15-Nov-91	11:35:44 PM	18.99	398.33	0.12	2
14-Nov-91	08:21:44 AM	18.90	975.00	0.21	1	15-Nov-91	11:40:44 PM	18.99	403.33	0.12	2
14-Nov-91	08:36:44 AM	18.90	990.00	0.21	1	15-Nov-91	11:45:44 PM	18.99	408.33	0.12	2
14-Nov-91	08:51:44 AM	18.90	1005.00	0.21	1	15-Nov-91	11:50:44 PM	18.99	413.33	0.12	2
14-Nov-91	09:06:44 AM	18.90	1020.00	0.21	1	15-Nov-91	11:55:45 PM	18.99	418.33	0.12	2
14-Nov-91	09:21:44 AM	18.91	1035.00	0.20	1	16-Nov-91	12:10:44 AM	18.99	433.33	0.12	2
14-Nov-91	09:36:44 AM	18.90	1050.00	0.21	1	16-Nov-91	12:25:44 AM	18.99	448.33	0.12	2
14-Nov-91	09:51:44 AM	18.91	1065.00	0.20	1	16-Nov-91	12:40:44 AM	18.99	463.33	0.12	2
14-Nov-91	10:06:44 AM	18.90	1080.00	0.21	1	16-Nov-91	12:55:44 AM	18.99	478.33	0.12	2
14-Nov-91	10:21:45 AM	18.90	1095.00	0.21	1	16-Nov-91	01:10:44 AM	19.00	493.33	0.11	2
14-Nov-91	10:36:44 AM	18.90	1110.00	0.21	1	16-Nov-91	01:25:44 AM	18.99	508.33	0.12	2
14-Nov-91	10:51:44 AM	18.90	1125.00	0.21	1	16-Nov-91	01:40:44 AM	19.00	523.33	0.11	2
14-Nov-91	11:06:44 AM	18.91	1140.00	0.20	1	16-Nov-91	01:55:44 AM	19.00	538.33	0.11	2
14-Nov-91	11:21:44 AM	18.91	1155.00	0.20	1	16-Nov-91	02:10:44 AM	18.99	553.33	0.12	2
14-Nov-91	11:36:44 AM	18.91	1170.00	0.20	1	16-Nov-91	02:25:44 AM	19.00	568.33	0.11	2
14-Nov-91	11:51:44 AM	18.91	1185.00	0.20	1	16-Nov-91	02:40:44 AM	19.01	583.33	0.10	2
14-Nov-91	12:06:44 PM	18.92	1200.00	0.19	1	16-Nov-91	02:55:44 AM	19.01	598.33	0.10	2
14-Nov-91	12:21:44 PM	18.90	1215.00	0.21	1	16-Nov-91	03:10:44 AM	19.01	613.33	0.10	2
14-Nov-91	12:36:44 PM	18.91	1230.00	0.20	1	16-Nov-91	03:25:44 AM	19.01	628.33	0.09	2
14-Nov-91	12:51:44 PM	18.91	1245.00	0.20	1	16-Nov-91	03:40:44 AM	19.01	643.33	0.09	2
14-Nov-91	01:06:44 PM	18.91	1260.00	0.20	1	16-Nov-91	03:55:44 AM	19.01	658.33	0.09	1
14-Nov-91	01:21:44 PM	18.90	1275.00	0.21	1	16-Nov-91	04:10:44 AM	19.01	673.33	0.09	1
14-Nov-91	01:36:44 PM	18.91	1290.00	0.20	1	16-Nov-91	04:25:44 AM	19.01	688.33	0.10	1
14-Nov-91	01:51:44 PM	18.91	1305.00	0.20	1	16-Nov-91	04:40:44 AM	19.01	703.33	0.10	1
14-Nov-91	02:06:44 PM	18.91	1320.00	0.20	1	16-Nov-91	04:55:44 AM	19.01	718.33	0.10	1
14-Nov-91	02:21:44 PM	18.90	1335.00	0.21	1	16-Nov-91	05:10:44 AM	19.01	733.33	0.10	1
14-Nov-91	02:36:44 PM	18.91	1350.00	0.20	1	16-Nov-91	05:25:44 AM	19.01	748.33	0.10	1
14-Nov-91	02:51:44 PM	18.89	1365.00	0.22	1	16-Nov-91	05:40:44 AM	19.01	763.33	0.09	1
14-Nov-91	03:06:44 PM	18.89	1380.00	0.22	1	16-Nov-91	05:55:44 AM	19.01	778.33	0.10	1
14-Nov-91	03:21:44 PM	18.89	1395.00	0.22	1	16-Nov-91	06:10:44 AM	19.01	793.33	0.10	1
14-Nov-91	03:36:44 PM	18.90	1410.00	0.21	1	16-Nov-91	06:25:44 AM	19.01	808.33	0.10	1
14-Nov-91	03:51:44 PM	18.88	1425.00	0.22	1	16-Nov-91	06:40:44 AM	19.01	823.33	0.09	1
14-Nov-91	04:06:44 PM	18.88	1440.00	0.22	1	16-Nov-91	06:55:44 AM	19.01	838.33	0.10	1
14-Nov-91	04:21:44 PM	18.89	1455.00	0.22	1	16-Nov-91	07:10:44 AM	19.01	853.33	0.10	1
14-Nov-91	04:36:44 PM	18.88	1470.00	0.22	1	16-Nov-91	07:25:44 AM	19.01	868.33	0.10	1
14-Nov-91	04:51:44 PM	18.88	1485.00	0.22	1	16-Nov-91	07:40:44 AM	19.01	883.33	0.10	1
14-Nov-91	05:06:44 PM	18.88	1500.00	0.22	1	16-Nov-91	07:55:44 AM	19.01	898.33	0.10	1
14-Nov-91	05:21:44 PM	18.88	1515.00	0.23	1	16-Nov-91	08:10:44 AM	19.01	913.33	0.10	1
14-Nov-91	05:36:44 PM	18.88	1530.00	0.23	1	16-Nov-91	08:25:44 AM	19.01	928.33	0.10	1
14-Nov-91	05:51:44 PM	18.88	1545.00	0.23	1	16-Nov-91	08:40:44 AM	19.01	943.33	0.10	1
14-Nov-91	06:06:44 PM	18.88	1560.00	0.23	1	16-Nov-91	08:55:44 AM	19.01	958.33	0.09	1
14-Nov-91	06:21:44 PM	18.88	1575.00	0.23	1	16-Nov-91	09:10:44 AM	19.01	973.33	0.09	1

UPRR SACRAMENTO
 MW-12 DATALOGGER DATA
 November, 1991

PUMPING

DRAWDOWN

Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
14-Nov-91	06:36:44 PM	18.87	1590.00	0.24	1	16-Nov-91	09:25:44 AM	19.02	988.33	0.09	1
14-Nov-91	06:51:44 PM	18.88	1605.00	0.23	1	16-Nov-91	09:40:44 AM	19.02	1003.33	0.09	1
14-Nov-91	07:06:44 PM	18.87	1620.00	0.24	1	16-Nov-91	09:55:44 AM	19.02	1018.33	0.09	1
14-Nov-91	07:21:44 PM	18.87	1635.00	0.24	1	16-Nov-91	10:10:44 AM	19.03	1033.33	0.08	1
14-Nov-91	07:36:44 PM	18.87	1650.00	0.24	1	16-Nov-91	10:25:44 AM	19.03	1048.33	0.08	1
14-Nov-91	07:51:44 PM	18.86	1665.00	0.25	1	16-Nov-91	10:40:44 AM	19.03	1063.33	0.08	1
14-Nov-91	08:06:44 PM	18.87	1680.00	0.24	1	16-Nov-91	10:55:44 AM	19.04	1078.33	0.07	1
14-Nov-91	08:21:44 PM	18.87	1695.00	0.24	1	16-Nov-91	11:10:44 AM	19.04	1093.33	0.07	1
14-Nov-91	08:36:44 PM	18.87	1710.00	0.24	1	16-Nov-91	11:25:44 AM	19.04	1108.33	0.07	1
14-Nov-91	08:51:44 PM	18.87	1725.00	0.24	1	16-Nov-91	11:40:44 AM	19.04	1123.33	0.07	1
14-Nov-91	09:06:44 PM	18.86	1740.00	0.25	1	16-Nov-91	11:55:44 AM	19.04	1138.33	0.07	1
14-Nov-91	09:21:44 PM	18.86	1755.00	0.25	1	16-Nov-91	12:10:44 PM	19.05	1153.33	0.06	1
14-Nov-91	09:36:44 PM	18.86	1770.00	0.25	1	16-Nov-91	12:25:44 PM	19.06	1168.33	0.05	1
14-Nov-91	09:51:44 PM	18.86	1785.00	0.25	1	16-Nov-91	12:40:44 PM	19.07	1183.33	0.04	1
14-Nov-91	10:06:44 PM	18.86	1800.00	0.25	1	16-Nov-91	12:55:44 PM	19.07	1198.33	0.04	1
14-Nov-91	10:21:44 PM	18.86	1815.00	0.25	1	16-Nov-91	01:10:44 PM	19.07	1213.33	0.04	1
14-Nov-91	10:36:44 PM	18.86	1830.00	0.25	1	16-Nov-91	01:25:44 PM	19.07	1228.33	0.04	1
14-Nov-91	10:51:44 PM	18.86	1845.00	0.25	1	16-Nov-91	01:40:44 PM	19.06	1243.33	0.05	1
14-Nov-91	11:06:44 PM	18.85	1860.00	0.26	1	16-Nov-91	01:55:44 PM	19.06	1258.33	0.05	1
14-Nov-91	11:36:44 PM	18.86	1890.00	0.25	1	16-Nov-91	02:10:44 PM	19.07	1273.33	0.04	1
15-Nov-91	12:06:44 AM	18.86	1920.00	0.25	1	16-Nov-91	02:25:44 PM	19.07	1288.33	0.04	1
15-Nov-91	12:36:44 AM	18.86	1950.00	0.25	1	16-Nov-91	02:40:44 PM	19.07	1303.33	0.04	1
15-Nov-91	01:06:44 AM	18.86	1980.00	0.25	0	16-Nov-91	02:55:44 PM	19.06	1318.33	0.05	1
15-Nov-91	01:36:44 AM	18.86	2010.00	0.25	0	16-Nov-91	03:10:44 PM	19.06	1333.33	0.05	1
15-Nov-91	02:06:44 AM	18.85	2040.00	0.26	0	16-Nov-91	03:25:44 PM	19.06	1348.33	0.05	1
15-Nov-91	02:36:44 AM	18.86	2070.00	0.25	0	16-Nov-91	03:40:44 PM	19.06	1363.33	0.05	1
15-Nov-91	03:06:44 AM	18.85	2100.00	0.26	0	16-Nov-91	03:55:44 PM	19.06	1378.33	0.05	1
15-Nov-91	03:36:44 AM	18.85	2130.00	0.26	0	16-Nov-91	04:10:44 PM	19.06	1393.33	0.05	1
15-Nov-91	04:06:44 AM	18.85	2160.00	0.26	0	16-Nov-91	04:25:44 PM	19.06	1408.33	0.05	1
15-Nov-91	04:36:44 AM	18.85	2190.00	0.26	0	16-Nov-91	04:40:44 PM	19.06	1423.33	0.05	1
15-Nov-91	05:06:44 AM	18.84	2220.00	0.27	0	16-Nov-91	04:55:44 PM	19.05	1438.33	0.06	1
15-Nov-91	05:36:44 AM	18.84	2250.00	0.27	0	16-Nov-91	05:10:44 PM	19.06	1453.33	0.05	1
15-Nov-91	06:06:44 AM	18.84	2280.00	0.27	0	16-Nov-91	05:25:44 PM	19.07	1468.33	0.04	1
15-Nov-91	06:36:44 AM	18.83	2310.00	0.27	0	16-Nov-91	05:40:44 PM	19.07	1483.33	0.04	1
15-Nov-91	07:06:44 AM	18.83	2340.00	0.27	0	16-Nov-91	05:55:44 PM	19.07	1498.33	0.04	1
15-Nov-91	07:36:44 AM	18.83	2370.00	0.27	0	16-Nov-91	06:10:44 PM	19.06	1513.33	0.05	1
15-Nov-91	08:06:44 AM	18.83	2400.00	0.28	0	16-Nov-91	06:25:44 PM	19.05	1528.33	0.06	1
15-Nov-91	08:36:44 AM	18.83	2430.00	0.27	0	16-Nov-91	06:40:44 PM	19.05	1543.33	0.06	1
15-Nov-91	09:06:44 AM	18.83	2460.00	0.27	0	16-Nov-91	06:55:44 PM	19.04	1558.33	0.07	1
15-Nov-91	09:36:44 AM	18.83	2490.00	0.27	0	16-Nov-91	07:10:44 PM	19.06	1573.33	0.05	1
15-Nov-91	10:06:44 AM	18.83	2520.00	0.27	0	16-Nov-91	07:25:44 PM	19.06	1588.33	0.05	1
15-Nov-91	10:36:44 AM	18.84	2550.00	0.27	0	16-Nov-91	07:40:44 PM	19.07	1603.33	0.04	1
15-Nov-91	11:06:44 AM	18.85	2580.00	0.26	0	16-Nov-91	07:55:44 PM	19.07	1618.33	0.04	1
15-Nov-91	11:36:44 AM	18.85	2610.00	0.26	0	16-Nov-91	08:10:44 PM	19.07	1633.33	0.04	1
15-Nov-91	12:06:44 PM	18.84	2640.00	0.27	0	16-Nov-91	08:25:44 PM	19.07	1648.33	0.04	1
15-Nov-91	12:36:44 PM	18.85	2670.00	0.26	0	16-Nov-91	08:40:44 PM	19.07	1663.33	0.04	1

UPRR SACRAMENTO
 MW-12 DATALOGGER DATA
 November, 1991

PUMPING

DRAWDOWN

Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
15-Nov-91	01:06:44 PM	18.85	2700.00	0.26	0	16-Nov-91	08:55:44 PM	19.07	1678.33	0.04	1
15-Nov-91	01:36:44 PM	18.84	2730.00	0.27	0	16-Nov-91	09:10:44 PM	19.07	1693.33	0.04	1
15-Nov-91	02:06:44 PM	18.84	2760.00	0.27	0	16-Nov-91	09:25:44 PM	19.07	1708.33	0.04	1
15-Nov-91	02:36:44 PM	18.85	2790.00	0.26	0	16-Nov-91	09:40:44 PM	19.07	1723.33	0.04	1
15-Nov-91	03:06:44 PM	18.83	2820.00	0.27	0	16-Nov-91	09:55:44 PM	19.07	1738.33	0.04	1
15-Nov-91	03:36:44 PM	18.83	2850.00	0.27	0	16-Nov-91	10:10:44 PM	19.07	1753.33	0.04	1
15-Nov-91	04:06:44 PM	18.83	2880.00	0.27	0	16-Nov-91	10:25:44 PM	19.07	1768.33	0.04	1
15-Nov-91	04:45:18 PM	18.83	2918.56	0.28	0	16-Nov-91	10:40:44 PM	19.08	1783.33	0.03	1
15-Nov-91	04:45:24 PM	18.83	2918.65	0.28	0	16-Nov-91	10:55:44 PM	19.08	1798.33	0.03	1
15-Nov-91	04:45:28 PM	18.83	2918.73	0.28	0	16-Nov-91	11:10:44 PM	19.09	1813.33	0.02	1
15-Nov-91	04:45:34 PM	18.83	2918.82	0.28	0	16-Nov-91	11:25:44 PM	19.08	1828.33	0.03	1
15-Nov-91	04:45:38 PM	18.83	2918.90	0.27	0	16-Nov-91	11:40:44 PM	19.09	1843.33	0.02	1
15-Nov-91	04:45:44 PM	18.83	2918.99	0.28	0	16-Nov-91	11:55:45 PM	19.09	1858.33	0.02	1
15-Nov-91	04:45:48 PM	18.83	2919.07	0.27	0	17-Nov-91	12:25:44 AM	19.09	1888.33	0.01	1
15-Nov-91	04:45:53 PM	18.83	2919.15	0.28	0	17-Nov-91	12:55:44 AM	19.10	1918.33	0.01	1
15-Nov-91	04:45:59 PM	18.83	2919.24	0.27	0	17-Nov-91	01:25:44 AM	19.09	1948.33	0.01	1
15-Nov-91	04:46:03 PM	18.83	2919.32	0.27	0	17-Nov-91	01:55:44 AM	19.09	1978.33	0.01	0
15-Nov-91	04:46:09 PM	18.83	2919.41	0.27	0	17-Nov-91	02:25:44 AM	19.10	2008.33	0.01	0
15-Nov-91	04:46:13 PM	18.83	2919.48	0.27	0	17-Nov-91	02:55:44 AM	19.10	2038.33	0.01	0
15-Nov-91	04:46:19 PM	18.83	2919.57	0.28	0	17-Nov-91	03:25:44 AM	19.09	2068.33	0.01	0
15-Nov-91	04:46:23 PM	18.83	2919.65	0.28	0	17-Nov-91	03:55:44 AM	19.09	2098.33	0.01	0
15-Nov-91	04:46:28 PM	18.83	2919.73	0.27	0	17-Nov-91	04:25:44 AM	19.09	2128.33	0.02	0
15-Nov-91	04:46:34 PM	18.83	2919.82	0.27	0	17-Nov-91	04:55:44 AM	19.09	2158.33	0.01	0
15-Nov-91	04:46:38 PM	18.83	2919.90	0.27	0	17-Nov-91	05:25:44 AM	19.09	2188.33	0.02	0
15-Nov-91	04:46:44 PM	18.83	2919.99	0.28	0	17-Nov-91	05:55:44 AM	19.09	2218.33	0.02	0
15-Nov-91	04:46:48 PM	18.83	2920.07	0.27	0	17-Nov-91	06:25:44 AM	19.09	2248.33	0.02	0
15-Nov-91	04:46:54 PM	18.83	2920.16	0.27	0	17-Nov-91	06:55:44 AM	19.09	2278.33	0.01	0
15-Nov-91	04:46:58 PM	18.83	2920.23	0.28	0	17-Nov-91	07:25:44 AM	19.09	2308.33	0.01	0
15-Nov-91	04:47:03 PM	18.83	2920.32	0.27	0	17-Nov-91	07:55:44 AM	19.09	2338.33	0.01	0
15-Nov-91	04:47:09 PM	18.83	2920.40	0.27	0	17-Nov-91	08:25:44 AM	19.09	2368.33	0.02	0
15-Nov-91	04:47:13 PM	18.83	2920.48	0.28	0	17-Nov-91	08:55:44 AM	19.09	2398.33	0.02	0
15-Nov-91	04:47:19 PM	18.83	2920.57	0.27	0	17-Nov-91	09:25:44 AM	19.09	2428.33	0.02	0
15-Nov-91	04:47:23 PM	18.83	2920.65	0.27	0	17-Nov-91	09:55:44 AM	19.08	2458.33	0.03	0
15-Nov-91	04:47:29 PM	18.83	2920.74	0.28	0	17-Nov-91	10:25:44 AM	19.08	2488.33	0.03	0
15-Nov-91	04:47:33 PM	18.83	2920.82	0.27	0	17-Nov-91	10:55:44 AM	19.09	2518.33	0.02	0
15-Nov-91	04:47:38 PM	18.83	2920.90	0.27	0	17-Nov-91	11:25:44 AM	19.09	2548.33	0.01	0
15-Nov-91	04:47:44 PM	18.83	2920.99	0.27	0	17-Nov-91	11:55:44 AM	19.10	2578.33	0.01	0
15-Nov-91	04:47:48 PM	18.83	2921.07	0.27	0	17-Nov-91	12:25:44 PM	19.10	2608.33	0.01	0
15-Nov-91	04:47:54 PM	18.83	2921.16	0.28	0	17-Nov-91	12:55:44 PM	19.10	2638.33	0.01	0
15-Nov-91	04:47:58 PM	18.83	2921.23	0.27	0	17-Nov-91	01:25:44 PM	19.10	2668.33	0.01	0
15-Nov-91	04:48:04 PM	18.83	2921.32	0.27	0	17-Nov-91	01:55:44 PM	19.11	2698.33	0.00	0
15-Nov-91	04:48:08 PM	18.83	2921.40	0.27	0	17-Nov-91	02:25:44 PM	19.10	2728.33	0.01	0
15-Nov-91	04:48:13 PM	18.83	2921.48	0.27	0						
15-Nov-91	04:48:19 PM	18.83	2921.57	0.28	0						
15-Nov-91	04:48:23 PM	18.83	2921.65	0.27	0						
15-Nov-91	04:48:29 PM	18.83	2921.74	0.27	0						

UPRR SACRAMENTO
MW-12 DATALOGGER DATA
November, 1991

PUMPING

DRAWDOWN

PUMPING						DRAWDOWN					
Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
15-Nov-91	04:48:33 PM	18.83	2921.82	0.27	0						
15-Nov-91	04:48:39 PM	18.83	2921.91	0.28	0						
15-Nov-91	04:48:43 PM	18.83	2921.98	0.27	0						
15-Nov-91	04:48:48 PM	18.83	2922.07	0.27	0						
15-Nov-91	04:48:54 PM	18.83	2922.16	0.27	0						
15-Nov-91	04:48:58 PM	18.83	2922.23	0.28	0						
15-Nov-91	04:49:04 PM	18.83	2922.32	0.28	0						
15-Nov-91	04:49:08 PM	18.83	2922.40	0.28	0						
15-Nov-91	04:49:14 PM	18.83	2922.49	0.28	0						
15-Nov-91	04:49:18 PM	18.83	2922.57	0.28	0						
15-Nov-91	04:49:23 PM	18.83	2922.65	0.28	0						
15-Nov-91	04:49:29 PM	18.83	2922.74	0.27	0						
15-Nov-91	04:49:33 PM	18.83	2922.82	0.27	0						
15-Nov-91	04:49:39 PM	18.83	2922.90	0.28	0						
15-Nov-91	04:49:43 PM	18.83	2922.98	0.28	0						
15-Nov-91	04:49:49 PM	18.83	2923.07	0.28	0						
15-Nov-91	04:49:53 PM	18.83	2923.15	0.27	0						
15-Nov-91	04:49:58 PM	18.83	2923.23	0.28	0						
15-Nov-91	04:50:04 PM	18.83	2923.32	0.28	0						
15-Nov-91	04:50:08 PM	18.83	2923.40	0.28	0						
15-Nov-91	04:50:14 PM	18.83	2923.49	0.28	0						
15-Nov-91	04:50:18 PM	18.83	2923.57	0.27	0						
15-Nov-91	04:50:24 PM	18.83	2923.66	0.27	0						
15-Nov-91	04:50:28 PM	18.83	2923.73	0.27	0						
15-Nov-91	04:50:33 PM	18.83	2923.82	0.27	0						
15-Nov-91	04:50:39 PM	18.83	2923.91	0.27	0						
15-Nov-91	04:50:43 PM	18.83	2923.98	0.27	0						
15-Nov-91	04:50:49 PM	18.83	2924.07	0.28	0						
15-Nov-91	04:50:53 PM	18.83	2924.15	0.27	0						
15-Nov-91	04:50:59 PM	18.83	2924.24	0.27	0						
15-Nov-91	04:51:03 PM	18.83	2924.32	0.27	0						
15-Nov-91	04:51:08 PM	18.83	2924.40	0.28	0						
15-Nov-91	04:51:14 PM	18.83	2924.49	0.27	0						
15-Nov-91	04:51:18 PM	18.83	2924.57	0.27	0						
15-Nov-91	04:51:24 PM	18.83	2924.66	0.27	0						
15-Nov-91	04:51:28 PM	18.83	2924.73	0.28	0						
15-Nov-91	04:51:34 PM	18.83	2924.82	0.28	0						
15-Nov-91	04:51:38 PM	18.83	2924.90	0.28	0						
15-Nov-91	04:51:43 PM	18.83	2924.98	0.27	0						
15-Nov-91	04:51:49 PM	18.83	2925.07	0.28	0						
15-Nov-91	04:51:53 PM	18.83	2925.15	0.28	0						
15-Nov-91	04:51:59 PM	18.83	2925.24	0.28	0						
15-Nov-91	04:52:03 PM	18.83	2925.32	0.27	0						
15-Nov-91	04:52:09 PM	18.83	2925.40	0.27	0						
15-Nov-91	04:52:13 PM	18.83	2925.48	0.28	0						
15-Nov-91	04:52:18 PM	18.83	2925.57	0.28	0						

UPRR SACRAMENTO
 MW-12 DATALOGGER DATA
 November, 1991

PUMPING

DRAWDOWN

PUMPING					DRAWDOWN						
Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
15-Nov-91	04:52:24 PM	18.83	2925.66	0.27	0						
15-Nov-91	04:52:28 PM	18.83	2925.73	0.28	0						
15-Nov-91	04:52:34 PM	18.83	2925.82	0.27	0						
15-Nov-91	04:52:38 PM	18.83	2925.90	0.28	0						
15-Nov-91	04:52:44 PM	18.83	2925.99	0.28	0						
15-Nov-91	04:52:48 PM	18.83	2926.07	0.28	0						
15-Nov-91	04:52:53 PM	18.83	2926.15	0.27	0						
15-Nov-91	04:52:59 PM	18.83	2926.24	0.27	0						
15-Nov-91	04:53:03 PM	18.83	2926.32	0.28	0						
15-Nov-91	04:53:09 PM	18.83	2926.41	0.28	0						
15-Nov-91	04:53:13 PM	18.83	2926.48	0.28	0						
15-Nov-91	04:53:19 PM	18.83	2926.57	0.27	0						
15-Nov-91	04:53:23 PM	18.83	2926.65	0.28	0						
15-Nov-91	04:53:28 PM	18.83	2926.73	0.27	0						
15-Nov-91	04:53:34 PM	18.83	2926.82	0.27	0						
15-Nov-91	04:53:38 PM	18.83	2926.90	0.28	0						
15-Nov-91	04:53:44 PM	18.83	2926.99	0.28	0						
15-Nov-91	04:53:48 PM	18.83	2927.06	0.27	0						
15-Nov-91	04:53:54 PM	18.83	2927.15	0.27	0						
15-Nov-91	04:53:58 PM	18.83	2927.23	0.28	0						
15-Nov-91	04:54:03 PM	18.83	2927.32	0.28	0						
15-Nov-91	04:54:09 PM	18.83	2927.40	0.28	0						
15-Nov-91	04:54:13 PM	18.83	2927.48	0.28	0						
15-Nov-91	04:54:19 PM	18.83	2927.57	0.27	0						
15-Nov-91	04:54:23 PM	18.83	2927.65	0.28	0						
15-Nov-91	04:54:29 PM	18.83	2927.74	0.28	0						
15-Nov-91	04:54:33 PM	18.83	2927.82	0.27	0						
15-Nov-91	04:54:38 PM	18.83	2927.90	0.27	0						
15-Nov-91	04:54:44 PM	18.83	2927.99	0.28	0						
15-Nov-91	04:54:48 PM	18.83	2928.07	0.28	0						
15-Nov-91	04:54:54 PM	18.83	2928.16	0.28	0						
15-Nov-91	04:55:44 PM	18.83	2929.00	0.27	0						
15-Nov-91	04:55:50 PM	18.83	2929.09	0.28	0						
15-Nov-91	04:55:54 PM	18.83	2929.17	0.27	0						
15-Nov-91	04:55:59 PM	18.83	2929.25	0.27	0						
15-Nov-91	04:56:05 PM	18.83	2929.34	0.27	0						
15-Nov-91	04:56:09 PM	18.83	2929.42	0.28	0						
15-Nov-91	04:56:15 PM	18.83	2929.51	0.28	0						
15-Nov-91	04:56:19 PM	18.83	2929.58	0.27	0						
15-Nov-91	04:56:25 PM	18.83	2929.67	0.27	0						
15-Nov-91	04:56:29 PM	18.83	2929.75	0.27	0						
15-Nov-91	04:56:34 PM	18.83	2929.83	0.27	0						
15-Nov-91	04:56:40 PM	18.83	2929.92	0.28	0						
15-Nov-91	04:56:44 PM	18.83	2930.00	0.28	0						
15-Nov-91	04:56:50 PM	18.83	2930.09	0.28	0						
15-Nov-91	04:56:54 PM	18.83	2930.17	0.28	0						

UPRR SACRAMENTO
 MW-12 DATALOGGER DATA
 November, 1991

PUMPING

DRAWDOWN

Date	Time	Head	PUMPING			Date	Time	Head	DRAWDOWN		
			Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)				Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
15-Nov-91	04:57:00 PM	18.83	2930.26	0.28	0						
15-Nov-91	04:57:04 PM	18.83	2930.33	0.28	0						
15-Nov-91	04:57:09 PM	18.83	2930.42	0.28	0						
15-Nov-91	04:57:15 PM	18.83	2930.51	0.27	0						
15-Nov-91	04:57:19 PM	18.83	2930.58	0.28	0						

UPRR SACRAMENTO
MW-13 DATALOGGER DATA
November, 1991

PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)

UPRR SACRAMENTO
MW-13 DATALOGGER DATA
November, 1991

PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
5.366	0.00	0.00	--	4.778	2930.72	0.00	0.59	--
5.297	0.17	0.07	8523	4.708	2930.90	0.18	0.66	7819
5.228	0.33	0.14	4262	4.708	2931.07	0.35	0.66	4078
5.228	0.50	0.14	2841	4.708	2931.23	0.51	0.66	2758
5.228	0.67	0.14	2131	4.708	2931.40	0.68	0.66	2084
5.228	0.83	0.14	1705	4.708	2931.57	0.85	0.66	1675
5.228	1.00	0.14	1421	4.708	2931.73	1.01	0.66	1400
5.228	1.17	0.14	1218	4.708	2931.90	1.18	0.66	1202
5.193	1.33	0.17	1065	4.743	2932.07	1.35	0.62	1054
5.193	1.50	0.17	947	4.743	2932.23	1.51	0.62	938
5.193	1.67	0.17	852	4.743	2932.40	1.68	0.62	845
5.193	1.83	0.17	775	4.778	2932.57	1.85	0.59	769
5.158	2.00	0.21	710	4.778	2932.73	2.01	0.59	705
5.193	2.17	0.17	656	4.778	2932.90	2.18	0.59	651
5.158	2.33	0.21	609	4.778	2933.07	2.35	0.59	605
5.158	2.50	0.21	568	4.778	2933.23	2.51	0.59	565
5.158	2.67	0.21	533	4.812	2933.40	2.68	0.55	530
5.158	2.83	0.21	501	4.812	2933.57	2.85	0.55	499
5.124	3.00	0.24	474	4.812	2933.73	3.01	0.55	471
5.124	3.17	0.24	449	4.847	2933.90	3.18	0.52	446
5.124	3.33	0.24	426	4.847	2934.07	3.35	0.52	424
5.124	3.50	0.24	406	4.847	2934.23	3.51	0.52	404
5.124	3.67	0.24	387	4.847	2934.40	3.68	0.52	386
5.089	3.83	0.28	371	4.847	2934.57	3.85	0.52	369
5.089	4.00	0.28	355	4.847	2934.73	4.01	0.52	354
5.089	4.17	0.28	341	4.881	2934.90	4.18	0.48	340
5.124	4.33	0.24	328	4.881	2935.07	4.35	0.48	327
5.089	4.50	0.28	316	4.881	2935.23	4.51	0.48	315
5.089	4.67	0.28	304	4.916	2935.40	4.68	0.45	303
5.089	4.83	0.28	294	4.916	2935.57	4.85	0.45	293
5.089	5.00	0.28	284	4.916	2935.73	5.01	0.45	283
5.089	5.17	0.28	275	4.916	2935.90	5.18	0.45	274
5.089	5.33	0.28	266	4.916	2936.07	5.35	0.45	266
5.089	5.50	0.28	258	4.916	2936.23	5.51	0.45	258
5.089	5.67	0.28	251	4.951	2936.40	5.68	0.42	250
5.089	5.83	0.28	244	4.951	2936.57	5.85	0.42	243

UPRR SACRAMENTO
 MW-13 DATALOGGER DATA
 November, 1991

PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
5.089	6.00	0.28	237	4.951	2936.73	6.01	0.42	236
5.089	6.17	0.28	230	4.951	2936.90	6.18	0.42	230
5.089	6.33	0.28	224	4.951	2937.07	6.35	0.42	224
5.089	6.50	0.28	219	4.951	2937.23	6.51	0.42	218
5.089	6.67	0.28	213	4.951	2937.40	6.68	0.42	213
5.089	6.83	0.28	208	4.951	2937.57	6.85	0.42	207
5.089	7.00	0.28	203	4.951	2937.73	7.01	0.42	203
5.089	7.17	0.28	198	4.985	2937.90	7.18	0.38	198
5.089	7.33	0.28	194	4.951	2938.07	7.35	0.42	193
5.089	7.50	0.28	189	4.985	2938.23	7.51	0.38	189
5.055	7.67	0.31	185	4.985	2938.40	7.68	0.38	185
5.089	7.83	0.28	181	4.985	2938.57	7.85	0.38	181
5.089	8.00	0.28	178	4.985	2938.73	8.01	0.38	177
5.055	8.17	0.31	174	4.985	2938.90	8.18	0.38	174
5.055	8.33	0.31	170	5.02	2939.07	8.35	0.35	170
5.055	8.50	0.31	167	5.02	2939.23	8.51	0.35	167
5.055	8.67	0.31	164	5.02	2939.40	8.68	0.35	164
5.02	8.83	0.35	161	5.02	2939.57	8.85	0.35	161
5.055	9.00	0.31	158	5.02	2939.73	9.01	0.35	158
5.055	9.17	0.31	155	5.02	2939.90	9.18	0.35	155
5.055	9.33	0.31	152	5.02	2940.07	9.35	0.35	152
5.055	9.50	0.31	150	5.02	2940.23	9.51	0.35	149
5.055	9.67	0.31	147	5.02	2940.40	9.68	0.35	147
5.055	9.83	0.31	144	5.055	2940.57	9.85	0.31	144
5.055	10.00	0.31	142	5.055	2940.73	10.01	0.31	142
4.916	10.50	0.45	135	5.02	2941.23	10.51	0.35	135
4.916	11.00	0.45	129	4.985	2941.73	11.01	0.38	129
4.881	11.50	0.48	124	5.02	2942.23	11.51	0.35	123
4.881	12.00	0.48	118	5.02	2942.73	12.01	0.35	118
4.881	12.50	0.48	114	5.02	2943.23	12.51	0.35	114
4.847	13.00	0.52	109	5.02	2943.73	13.01	0.35	109
4.847	13.50	0.52	105	5.02	2944.23	13.51	0.35	105
4.847	14.00	0.52	101	5.02	2944.73	14.01	0.35	101
4.847	14.50	0.52	98	5.055	2945.23	14.51	0.31	98
4.812	15.00	0.55	95	5.055	2945.73	15.01	0.31	95
4.847	15.50	0.52	92	5.055	2946.23	15.51	0.31	92
4.812	16.00	0.55	89	5.055	2946.73	16.01	0.31	89
4.812	16.50	0.55	86	5.089	2947.23	16.51	0.28	86
4.812	17.00	0.55	84	5.089	2947.73	17.01	0.28	83
4.812	17.50	0.55	81	5.089	2948.23	17.51	0.28	81
4.812	18.00	0.55	79	5.089	2948.73	18.01	0.28	79
4.778	18.50	0.59	77	5.089	2949.23	18.51	0.28	77
4.812	19.00	0.55	75	5.089	2949.73	19.01	0.28	75
4.812	19.50	0.55	73	5.089	2950.23	19.51	0.28	73
4.778	20.00	0.59	71	5.089	2950.73	20.01	0.28	71
4.812	20.50	0.55	69	5.124	2951.23	20.51	0.24	69

UPRR SACRAMENTO
MW-13 DATALOGGER DATA
November, 1991

PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
4.812	21.00	0.55	68	5.124	2951.73	21.01	0.24	68
4.778	21.50	0.59	66	5.124	2952.23	21.51	0.24	66
4.778	22.00	0.59	65	5.124	2952.73	22.01	0.24	65
4.778	22.50	0.59	63	5.158	2953.23	22.51	0.21	63
4.778	23.00	0.59	62	5.158	2953.73	23.01	0.21	62
4.778	23.50	0.59	60	5.124	2954.23	23.51	0.24	60
4.778	24.00	0.59	59	5.158	2954.73	24.01	0.21	59
4.778	24.50	0.59	58	5.158	2955.23	24.51	0.21	58
4.778	25.00	0.59	57	5.158	2955.73	25.01	0.21	57
4.778	25.50	0.59	56	5.158	2956.23	25.51	0.21	56
4.778	26.00	0.59	55	5.158	2956.73	26.01	0.21	55
4.778	26.50	0.59	54	5.193	2957.23	26.51	0.17	54
4.778	27.00	0.59	53	5.158	2957.73	27.01	0.21	53
4.743	27.50	0.62	52	5.193	2958.23	27.51	0.17	52
4.778	28.00	0.59	51	5.193	2958.73	28.01	0.17	51
4.778	28.50	0.59	50	5.193	2959.23	28.51	0.17	50
4.778	29.00	0.59	49	5.193	2959.73	29.01	0.17	49
4.778	29.50	0.59	48	5.193	2960.23	29.51	0.17	48
4.743	30.00	0.62	47	5.228	2960.73	30.01	0.14	47
4.743	30.50	0.62	47	5.228	2961.23	30.51	0.14	47
4.743	31.00	0.62	46	5.228	2961.73	31.01	0.14	46
4.743	31.50	0.62	45	5.228	2962.23	31.51	0.14	45
4.743	32.00	0.62	44	5.228	2962.73	32.01	0.14	44
4.743	32.50	0.62	44	5.228	2963.23	32.51	0.14	44
4.743	33.00	0.62	43	5.228	2963.73	33.01	0.14	43
4.743	33.50	0.62	42	5.228	2964.23	33.51	0.14	42
4.708	34.00	0.66	42	5.228	2964.73	34.01	0.14	42
4.708	34.50	0.66	41	5.228	2965.23	34.51	0.14	41
4.708	35.00	0.66	41	5.228	2965.73	35.01	0.14	41
4.708	35.50	0.66	40	5.228	2966.23	35.51	0.14	40
4.708	36.00	0.66	39	5.228	2966.73	36.01	0.14	39
4.708	36.50	0.66	39	5.262	2967.23	36.51	0.10	39
4.708	37.00	0.66	38	5.262	2967.73	37.01	0.10	38
4.708	37.50	0.66	38	5.262	2968.23	37.51	0.10	38
4.708	38.00	0.66	37	5.262	2968.73	38.01	0.10	37
4.708	38.50	0.66	37	5.262	2969.23	38.51	0.10	37
4.674	39.00	0.69	36	5.262	2969.73	39.01	0.10	36
4.708	39.50	0.66	36	5.262	2970.23	39.51	0.10	36
4.708	40.00	0.66	36	5.297	2970.73	40.01	0.07	36
4.708	40.50	0.66	35	5.297	2971.23	40.51	0.07	35
4.674	41.00	0.69	35	5.297	2971.73	41.01	0.07	35
4.674	41.50	0.69	34	5.297	2972.23	41.51	0.07	34
4.674	42.00	0.69	34	5.297	2972.73	42.01	0.07	34
4.708	42.50	0.66	33	5.297	2973.23	42.51	0.07	33
4.674	43.00	0.69	33	5.297	2973.73	43.01	0.07	33
4.674	43.50	0.69	33	5.297	2974.23	43.51	0.07	33

UPRR SACRAMENTO
 MW-13 DATALOGGER DATA
 November, 1991

PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
4.674	44.00	0.69	32	5.297	2974.73	44.01	0.07	32
4.674	44.50	0.69	32	5.331	2975.23	44.51	0.03	32
4.674	45.00	0.69	32	5.297	2975.73	45.01	0.07	32
4.708	45.50	0.66	31	5.331	2976.23	45.51	0.03	31
4.674	46.00	0.69	31	5.331	2976.73	46.01	0.03	31
4.674	46.50	0.69	31	5.331	2977.23	46.51	0.03	31
4.674	47.00	0.69	30	5.331	2977.73	47.01	0.03	30
4.674	47.50	0.69	30	5.331	2978.23	47.51	0.03	30
4.674	48.00	0.69	30	5.331	2978.73	48.01	0.03	30
4.674	48.50	0.69	29	5.331	2979.23	48.51	0.03	29
4.674	49.00	0.69	29	5.331	2979.73	49.01	0.03	29
4.674	49.50	0.69	29	5.331	2980.23	49.51	0.03	29
4.674	50.00	0.69	28	5.331	2980.73	50.01	0.03	28
4.674	50.50	0.69	28	5.366	2981.23	50.51	0.00	28
4.674	51.00	0.69	28	5.366	2981.73	51.01	0.00	28
4.674	51.50	0.69	28	5.331	2982.23	51.51	0.03	28
4.674	52.00	0.69	27	5.331	2982.73	52.01	0.03	27
4.674	52.50	0.69	27	5.331	2983.23	52.51	0.03	27
4.674	53.00	0.69	27	5.366	2983.73	53.01	0.00	27
4.674	53.50	0.69	27	5.366	2984.23	53.51	0.00	27
4.674	54.00	0.69	26	5.366	2984.73	54.01	0.00	26
4.674	54.50	0.69	26	5.366	2985.23	54.51	0.00	26
4.674	55.00	0.69	26	5.366	2985.73	55.01	0.00	26
4.639	55.50	0.73	26	5.366	2986.23	55.51	0.00	26
4.674	56.00	0.69	25	5.366	2986.73	56.01	0.00	25
4.639	56.50	0.73	25	5.366	2987.23	56.51	0.00	25
4.674	57.00	0.69	25	5.366	2987.73	57.01	0.00	25
4.674	57.50	0.69	25	5.366	2988.23	57.51	0.00	25
4.639	58.00	0.73	24	5.366	2988.73	58.01	0.00	24
4.674	58.50	0.69	24	5.366	2989.23	58.51	0.00	24
4.674	59.00	0.69	24	5.366	2989.73	59.01	0.00	24
4.674	59.50	0.69	24	5.401	2990.23	59.51	-0.04	24
4.604	60.50	0.76	23	5.366	2991.23	60.51	0.00	23
4.639	61.50	0.73	23	5.331	2992.23	61.51	0.03	23
4.604	62.50	0.76	23	5.366	2993.23	62.51	0.00	23
4.604	63.50	0.76	22	5.366	2994.23	63.51	0.00	22
4.604	64.50	0.76	22	5.366	2995.23	64.51	0.00	22
4.604	65.50	0.76	22	5.331	2996.23	65.51	0.03	22
4.604	66.50	0.76	21	5.331	2997.23	66.51	0.03	21
4.604	67.50	0.76	21	5.366	2998.23	67.51	0.00	21
4.604	68.50	0.76	21	5.366	2999.23	68.51	0.00	21
4.604	69.50	0.76	20	5.366	3000.23	69.51	0.00	20
4.604	70.50	0.76	20	5.401	3001.23	70.51	-0.04	20
4.604	71.50	0.76	20	5.366	3002.23	71.51	0.00	20
4.604	72.50	0.76	20	5.366	3003.23	72.51	0.00	20
4.604	73.50	0.76	19	5.366	3004.23	73.51	0.00	19

UPRR SACRAMENTO
MW-13 DATALOGGER DATA
November, 1991

PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
4.57	74.50	0.80	19	5.366	3005.23	74.51	0.00	19
4.57	75.50	0.80	19	5.401	3006.23	75.51	-0.04	19
4.604	76.50	0.76	19	5.401	3007.23	76.51	-0.04	19
4.57	77.50	0.80	18	5.366	3008.23	77.51	0.00	18
4.604	78.50	0.76	18	5.366	3009.23	78.51	0.00	18
4.604	79.50	0.76	18	5.401	3010.23	79.51	-0.04	18
4.604	80.50	0.76	18	5.401	3011.23	80.51	-0.04	18
4.604	81.50	0.76	17	5.401	3012.23	81.51	-0.04	17
4.639	82.50	0.73	17	5.401	3013.23	82.51	-0.04	17
4.604	83.50	0.76	17	5.401	3014.23	83.51	-0.04	17
4.604	84.50	0.76	17	5.401	3015.23	84.51	-0.04	17
4.604	85.50	0.76	17	5.435	3016.23	85.51	-0.07	17
4.604	86.50	0.76	16	5.435	3017.23	86.51	-0.07	16
4.639	87.50	0.73	16	5.401	3018.23	87.51	-0.04	16
4.604	88.50	0.76	16	5.435	3019.23	88.51	-0.07	16
4.604	89.50	0.76	16	5.435	3020.23	89.51	-0.07	16
4.639	90.50	0.73	16	5.435	3021.23	90.51	-0.07	16
4.604	91.50	0.76	16	5.47	3022.23	91.51	-0.10	16
4.639	92.50	0.73	15	5.435	3023.23	92.51	-0.07	15
4.639	93.50	0.73	15	5.435	3024.23	93.51	-0.07	15
4.639	94.50	0.73	15	5.435	3025.23	94.51	-0.07	15
4.604	95.50	0.76	15	5.47	3026.23	95.51	-0.10	15
4.639	96.50	0.73	15	5.47	3027.23	96.51	-0.10	15
4.639	97.50	0.73	15	5.47	3028.23	97.51	-0.10	15
4.639	98.50	0.73	14	5.47	3029.23	98.51	-0.10	14
4.639	99.50	0.73	14	5.47	3030.23	99.51	-0.10	14
4.639	100.50	0.73	14	5.47	3031.23	100.51	-0.10	14
4.639	101.50	0.73	14	5.47	3032.23	101.51	-0.10	14
4.639	102.50	0.73	14	5.47	3033.23	102.51	-0.10	14
4.639	103.50	0.73	14	5.47	3034.23	103.51	-0.10	14
4.639	104.50	0.73	14	5.47	3035.23	104.51	-0.10	14
4.674	105.50	0.69	13	5.47	3036.23	105.51	-0.10	13
4.639	106.50	0.73	13	5.47	3037.23	106.51	-0.10	13
4.674	107.50	0.69	13	5.47	3038.23	107.51	-0.10	13
4.674	108.50	0.69	13	5.505	3039.23	108.51	-0.14	13
4.639	109.50	0.73	13	5.505	3040.23	109.51	-0.14	13
4.674	110.50	0.69	13	5.505	3041.23	110.51	-0.14	13
4.674	111.50	0.69	13	5.505	3042.23	111.51	-0.14	13
4.674	112.50	0.69	13	5.505	3043.23	112.51	-0.14	13
4.674	113.50	0.69	13	5.505	3044.23	113.51	-0.14	13
4.674	114.50	0.69	12	5.505	3045.23	114.51	-0.14	12
4.674	115.50	0.69	12	5.505	3046.23	115.51	-0.14	12
4.708	116.50	0.66	12	5.505	3047.23	116.51	-0.14	12
4.708	117.50	0.66	12	5.505	3048.23	117.51	-0.14	12
4.674	118.50	0.69	12	5.539	3049.23	118.51	-0.17	12
4.639	123.50	0.73	12	5.47	3054.23	123.51	-0.10	12

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PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
4.639	128.50	0.73	11	5.47	3059.23	128.51	-0.10	11
4.639	133.50	0.73	11	5.47	3064.23	133.51	-0.10	11
4.604	138.50	0.76	10	5.505	3069.23	138.51	-0.14	10
4.639	143.50	0.73	10	5.505	3074.23	143.51	-0.14	10
4.639	148.50	0.73	10	5.505	3079.23	148.51	-0.14	10
4.639	153.50	0.73	9	5.505	3084.23	153.51	-0.14	9
4.639	158.50	0.73	9	5.505	3089.23	158.51	-0.14	9
4.674	163.50	0.69	9	5.539	3094.23	163.51	-0.17	9
4.674	168.50	0.69	8	5.539	3099.23	168.51	-0.17	8
4.708	173.50	0.66	8	5.574	3104.23	173.51	-0.21	8
4.708	178.50	0.66	8	5.608	3109.23	178.51	-0.24	8
4.708	183.50	0.66	8	5.608	3114.23	183.51	-0.24	8
4.708	188.50	0.66	8	5.608	3119.23	188.51	-0.24	8
4.743	193.50	0.62	7	5.608	3124.23	193.51	-0.24	7
4.743	198.50	0.62	7	5.608	3129.23	198.51	-0.24	7
4.778	203.50	0.59	7	5.643	3134.23	203.51	-0.28	7
4.778	208.50	0.59	7	5.643	3139.23	208.51	-0.28	7
4.778	213.50	0.59	7	5.643	3144.23	213.51	-0.28	7
4.778	218.50	0.59	7	5.643	3149.23	218.51	-0.28	7
4.812	223.50	0.55	6	5.678	3154.23	223.51	-0.31	6
4.812	228.50	0.55	6	5.678	3159.23	228.51	-0.31	6
4.812	233.50	0.55	6	5.678	3164.23	233.51	-0.31	6
4.812	238.50	0.55	6	5.712	3169.23	238.51	-0.35	6
4.812	243.50	0.55	6	5.712	3174.23	243.51	-0.35	6
4.812	248.50	0.55	6	5.712	3179.23	248.51	-0.35	6
4.847	253.50	0.52	6	5.712	3184.23	253.51	-0.35	6
4.847	258.50	0.52	5	5.747	3189.23	258.51	-0.38	5
4.812	263.50	0.55	5	5.747	3194.23	263.51	-0.38	5
4.847	268.50	0.52	5	5.747	3199.23	268.51	-0.38	5
4.847	273.50	0.52	5	5.782	3204.23	273.51	-0.42	5
4.881	278.50	0.48	5	5.782	3209.23	278.51	-0.42	5
4.847	283.50	0.52	5	5.782	3214.23	283.51	-0.42	5
4.881	288.50	0.48	5	5.782	3219.23	288.51	-0.42	5
4.847	293.50	0.52	5	5.816	3224.23	293.51	-0.45	5
4.881	298.50	0.48	5	5.782	3229.23	298.51	-0.42	5
4.847	303.50	0.52	5	5.782	3234.23	303.51	-0.42	5
4.812	308.50	0.55	5	5.782	3239.23	308.51	-0.42	5
4.847	313.50	0.52	5	5.782	3244.23	313.51	-0.42	5
4.881	318.50	0.48	4	5.782	3249.23	318.51	-0.42	4
4.847	323.50	0.52	4	5.782	3254.23	323.51	-0.42	4
4.847	328.50	0.52	4	5.782	3259.23	328.51	-0.42	4
4.847	333.50	0.52	4	5.782	3264.23	333.51	-0.42	4
4.847	338.50	0.52	4	5.782	3269.23	338.51	-0.42	4
4.847	343.50	0.52	4	5.782	3274.23	343.51	-0.42	4
4.847	348.50	0.52	4	5.782	3279.23	348.51	-0.42	4
4.847	353.50	0.52	4	5.782	3284.23	353.51	-0.42	4

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PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
4.847	358.50	0.52	4	5.782	3289.23	358.51	-0.42	4
4.847	363.50	0.52	4	5.782	3294.23	363.51	-0.42	4
4.881	368.50	0.48	4	5.782	3299.23	368.51	-0.42	4
4.881	373.50	0.48	4	5.782	3304.23	373.51	-0.42	4
4.881	378.50	0.48	4	5.782	3309.23	378.51	-0.42	4
4.847	383.50	0.52	4	5.816	3314.23	383.51	-0.45	4
4.847	388.50	0.52	4	5.816	3319.23	388.51	-0.45	4
4.847	393.50	0.52	4	5.816	3324.23	393.51	-0.45	4
4.881	398.50	0.48	4	5.782	3329.23	398.51	-0.42	4
4.847	403.50	0.52	4	5.782	3334.23	403.51	-0.42	4
4.881	408.50	0.48	3	5.816	3339.23	408.51	-0.45	3
4.881	413.50	0.48	3	5.816	3344.23	413.51	-0.45	3
4.847	428.50	0.52	3	5.782	3359.23	428.51	-0.42	3
4.812	443.50	0.55	3	5.782	3374.23	443.51	-0.42	3
4.812	458.50	0.55	3	5.782	3389.23	458.51	-0.42	3
4.812	473.50	0.55	3	5.782	3404.23	473.51	-0.42	3
4.847	488.50	0.52	3	5.816	3419.23	488.51	-0.45	3
4.847	503.50	0.52	3	5.782	3434.23	503.51	-0.42	3
4.847	518.50	0.52	3	5.782	3449.23	518.51	-0.42	3
4.847	533.50	0.52	3	5.782	3464.23	533.51	-0.42	3
4.847	548.50	0.52	3	5.782	3479.23	548.51	-0.42	3
4.847	563.50	0.52	3	5.782	3494.23	563.51	-0.42	3
4.881	578.50	0.48	2	5.816	3509.23	578.51	-0.45	2
4.847	593.50	0.52	2	5.816	3524.23	593.51	-0.45	2
4.881	608.50	0.48	2	5.816	3539.23	608.51	-0.45	2
4.881	623.50	0.48	2	5.816	3554.23	623.51	-0.45	2
4.881	638.50	0.48	2	5.816	3569.23	638.51	-0.45	2
4.881	653.50	0.48	2	5.816	3584.23	653.51	-0.45	2
4.916	668.50	0.45	2	5.816	3599.23	668.52	-0.45	2
4.916	683.50	0.45	2	5.851	3614.23	683.52	-0.49	2
4.916	698.50	0.45	2	5.851	3629.23	698.52	-0.49	2
4.916	713.50	0.45	2	5.851	3644.23	713.52	-0.49	2
4.916	728.50	0.45	2	5.851	3659.23	728.52	-0.49	2
4.916	743.50	0.45	2	5.851	3674.23	743.52	-0.49	2
4.881	758.50	0.48	2	5.885	3689.23	758.52	-0.52	2
4.916	773.50	0.45	2	5.885	3704.23	773.52	-0.52	2
4.916	788.50	0.45	2	5.885	3719.23	788.52	-0.52	2
4.916	803.50	0.45	2	5.885	3734.23	803.52	-0.52	2
4.916	818.50	0.45	2	5.92	3749.23	818.52	-0.55	2
4.951	833.50	0.42	2	5.92	3764.23	833.52	-0.55	2
4.951	848.50	0.42	2	5.92	3779.23	848.52	-0.55	2
4.951	863.50	0.42	2	5.92	3794.23	863.52	-0.55	2
4.951	878.50	0.42	2	5.955	3809.23	878.52	-0.59	2
4.951	893.50	0.42	2	5.955	3824.23	893.52	-0.59	2
4.951	908.50	0.42	2	5.955	3839.23	908.52	-0.59	2
4.951	923.50	0.42	2	5.955	3854.23	923.52	-0.59	2

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PUMPING				RECOVERY				
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4.951	938.50	0.42	2	5.989	3869.23	938.52	-0.62	2
4.951	953.50	0.42	1	5.92	3884.23	953.52	-0.55	1
4.985	968.50	0.38	1	5.92	3899.23	968.52	-0.55	1
4.951	983.50	0.42	1	5.92	3914.23	983.52	-0.55	1
4.916	998.50	0.45	1	5.92	3929.23	998.52	-0.55	1
4.916	1013.50	0.45	1	5.851	3944.23	1013.52	-0.49	1
4.881	1028.50	0.48	1	5.816	3959.23	1028.52	-0.45	1
4.847	1043.50	0.52	1	5.782	3974.23	1043.52	-0.42	1
4.847	1058.50	0.52	1	5.747	3989.23	1058.52	-0.38	1
4.847	1073.50	0.52	1	5.712	4004.23	1073.52	-0.35	1
4.812	1088.50	0.55	1	5.712	4019.23	1088.52	-0.35	1
4.778	1103.50	0.59	1	5.678	4034.23	1103.52	-0.31	1
4.743	1118.50	0.62	1	5.678	4049.23	1118.52	-0.31	1
5.158	1139.47	0.21	1	5.678	4064.23	1133.52	-0.31	1
4.778	1154.47	0.59	1	5.643	4079.23	1148.52	-0.28	1
4.708	1169.47	0.66	1	5.643	4094.23	1163.52	-0.28	1
4.674	1184.47	0.69	1	5.643	4109.23	1178.52	-0.28	1
4.639	1199.47	0.73	1	5.574	4124.23	1193.52	-0.21	1
4.604	1214.47	0.76	1	5.608	4139.23	1208.52	-0.24	1
4.57	1229.47	0.80	1	5.608	4154.23	1223.52	-0.24	1
4.535	1244.47	0.83	1	5.574	4169.23	1238.52	-0.21	1
4.535	1259.47	0.83	1	5.574	4184.23	1253.52	-0.21	1
4.466	1274.47	0.90	1	5.574	4199.23	1268.52	-0.21	1
4.431	1289.47	0.93	1	5.574	4214.23	1283.52	-0.21	1
4.397	1304.47	0.97	1	5.539	4229.23	1298.51	-0.17	1
4.362	1319.47	1.00	1	5.539	4244.23	1313.51	-0.17	1
4.362	1334.47	1.00	1	5.539	4259.23	1328.51	-0.17	1
4.328	1349.47	1.04	1	5.539	4274.23	1343.51	-0.17	1
4.362	1364.47	1.00	1	5.539	4289.23	1358.51	-0.17	1
4.328	1379.47	1.04	1	5.539	4304.23	1373.51	-0.17	1
4.293	1394.47	1.07	1	5.539	4319.23	1388.51	-0.17	1
4.293	1409.47	1.07	1	5.574	4334.23	1403.51	-0.21	1
4.258	1424.47	1.11	1	5.539	4349.23	1418.51	-0.17	1
4.293	1439.47	1.07	1	5.574	4364.23	1433.51	-0.21	1
4.328	1454.47	1.04	1	5.574	4379.23	1448.51	-0.21	1
4.293	1469.47	1.07	1	5.574	4394.23	1463.51	-0.21	1
4.328	1484.47	1.04	1	5.574	4409.23	1478.51	-0.21	1
4.328	1499.47	1.04	1	5.574	4424.23	1493.51	-0.21	1
4.362	1514.47	1.00	1	5.574	4439.23	1508.51	-0.21	1
4.362	1529.47	1.00	1	5.574	4454.23	1523.51	-0.21	1
4.397	1544.47	0.97	1	5.574	4469.23	1538.51	-0.21	1
4.431	1559.47	0.93	1	5.608	4484.23	1553.51	-0.24	1
4.466	1574.47	0.90	1	5.608	4499.23	1568.51	-0.24	1
4.501	1589.47	0.86	1	5.608	4514.23	1583.51	-0.24	1
4.535	1604.47	0.83	1	5.643	4529.23	1598.51	-0.28	1
4.535	1619.47	0.83	1	5.608	4544.23	1613.51	-0.24	1

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PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
4.604	1634.47	0.76	1	5.608	4559.23	1628.51	-0.24	1
4.604	1649.47	0.76	1	5.608	4574.23	1643.51	-0.24	1
4.639	1664.47	0.73	1	5.608	4589.23	1658.51	-0.24	1
4.674	1679.47	0.69	1	5.643	4604.23	1673.51	-0.28	1
4.674	1694.47	0.69	1	5.608	4619.23	1688.51	-0.24	1
4.674	1709.47	0.69	1	5.643	4634.23	1703.51	-0.28	1
4.674	1724.47	0.69	1	5.678	4649.23	1718.51	-0.31	1
4.708	1739.47	0.66	1	5.643	4664.23	1733.51	-0.28	1
4.708	1754.47	0.66	1	5.643	4679.23	1748.51	-0.28	1
4.743	1769.47	0.62	1	5.678	4694.23	1763.51	-0.31	1
4.708	1784.47	0.66	1	5.678	4709.23	1778.51	-0.31	1
4.743	1799.47	0.62	1	5.678	4724.23	1793.51	-0.31	1
4.743	1814.47	0.62	1	5.712	4739.23	1793.51	-0.35	1
4.743	1829.47	0.62	1	5.643	4754.23	1823.51	-0.28	1
4.778	1844.47	0.59	1	5.678	4769.23	1838.51	-0.31	1
4.778	1874.47	0.59	1	5.678	4799.23	1868.51	-0.31	1
4.778	1904.47	0.59	1	5.712	4829.23	1898.51	-0.35	1
4.778	1934.47	0.59	1	5.712	4859.23	1928.51	-0.35	1
4.778	1964.47	0.59	1	5.712	4889.23	1958.51	-0.35	1
4.812	1994.47	0.55	1	5.712	4919.23	1988.51	-0.35	1
4.778	2024.47	0.59	1	5.712	4949.23	2018.51	-0.35	1
4.812	2054.47	0.55	1	5.712	4979.23	2048.51	-0.35	1
4.847	2084.47	0.52	1	5.643	5009.23	2078.51	-0.28	1
4.812	2114.47	0.55	1	5.643	5039.23	2108.51	-0.28	1
4.778	2144.47	0.59	1	5.678	5069.23	2138.51	-0.31	1
4.812	2174.47	0.55	1	5.712	5099.23	2168.51	-0.35	1
4.812	2204.47	0.55	1	5.608	5129.23	2198.51	-0.24	1
4.812	2234.47	0.55	1	5.643	5159.23	2228.51	-0.28	1
4.812	2264.47	0.55	1	5.678	5189.23	2258.51	-0.31	1
4.847	2294.47	0.52	1	5.712	5219.23	2288.51	-0.35	1
4.847	2324.47	0.52	1	5.747	5249.23	2318.51	-0.38	1
4.847	2354.47	0.52	1	5.747	5279.23	2348.51	-0.38	1
4.881	2384.47	0.48	1	5.782	5309.23	2378.51	-0.42	1
4.847	2414.47	0.52	1	5.782	5339.23	2408.51	-0.42	1
4.812	2444.47	0.55	1	5.782	5369.23	2438.51	-0.42	1
4.812	2474.47	0.55	1	5.782	5399.23	2468.51	-0.42	1
4.778	2504.47	0.59	1	5.816	5429.23	2498.51	-0.45	1
4.708	2534.47	0.66	1	5.851	5459.23	2528.51	-0.49	1
4.674	2564.47	0.69	1	5.851	5489.23	2558.51	-0.49	1
4.639	2594.47	0.73	1	5.816	5519.23	2588.51	-0.45	1
4.604	2624.47	0.76	1	5.816	5549.23	2618.51	-0.45	1
4.535	2654.47	0.83	1	5.816	5579.23	2648.51	-0.45	1
4.501	2684.47	0.86	1	5.816	5609.23	2678.51	-0.45	1
4.431	2714.47	0.93	1					
4.362	2744.47	1.00	1					
4.328	2774.47	1.04	1					

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PUMPING

RECOVERY

Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
4.258	2804.47	1.11	1					
4.258	2834.47	1.11	1					
4.189	2864.47	1.18	0					
4.189	2894.47	1.18	0					
4.743	2919.30	0.62	0					
4.674	2919.48	0.69	0					
4.639	2919.65	0.73	0					
4.639	2919.82	0.73	0					
4.639	2919.98	0.73	0					
4.639	2920.15	0.73	0					
4.639	2920.32	0.73	0					
4.639	2920.48	0.73	0					
4.639	2920.65	0.73	0					
4.639	2920.82	0.73	0					
4.639	2920.98	0.73	0					
4.674	2921.15	0.69	0					
4.639	2921.32	0.73	0					
4.674	2921.48	0.69	0					
4.639	2921.65	0.73	0					
4.674	2921.82	0.69	0					
4.639	2921.98	0.73	0					
4.674	2922.15	0.69	0					
4.674	2922.32	0.69	0					
4.639	2922.48	0.73	0					
4.674	2922.65	0.69	0					
4.639	2922.82	0.73	0					
4.639	2922.98	0.73	0					
4.674	2923.15	0.69	0					
4.674	2923.32	0.69	0					
4.639	2923.48	0.73	0					
4.639	2923.65	0.73	0					
4.674	2923.82	0.69	0					
4.674	2923.98	0.69	0					
4.639	2924.15	0.73	0					
4.674	2924.32	0.69	0					
4.639	2924.48	0.73	0					
4.674	2924.65	0.69	0					
4.674	2924.82	0.69	0					
4.674	2924.98	0.69	0					
4.674	2925.15	0.69	0					
4.674	2925.32	0.69	0					
4.674	2925.48	0.69	0					
4.674	2925.65	0.69	0					
4.674	2925.82	0.69	0					
4.674	2925.98	0.69	0					
4.674	2926.15	0.69	0					

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UPRR SACRAMENTO
 MW-13 DATALOGGER DATA
 November, 1991

PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
4.674	2926.32	0.69	0					
4.674	2926.48	0.69	0					
4.674	2926.65	0.69	0					
4.674	2926.82	0.69	0					
4.674	2926.98	0.69	0					
4.674	2927.15	0.69	0					
4.674	2927.32	0.69	0					
4.674	2927.48	0.69	0					
4.674	2927.65	0.69	0					
4.674	2927.82	0.69	0					
4.674	2927.98	0.69	0					
4.674	2928.15	0.69	0					
4.674	2928.32	0.69	0					
4.674	2928.48	0.69	0					
4.674	2928.65	0.69	0					
4.674	2928.82	0.69	0					
4.708	2928.98	0.66	0					
4.674	2929.15	0.69	0					
4.674	2929.32	0.69	0					
4.639	2929.82	0.73	0					

UPRR SACRAMENTO
MW-14 DATALOGGER DATA
November, 1991

PUMPING

RECOVERY

Date	Time	Head	Elapsed			Date	Time	Head	Elapsed		
			Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)				Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)

UPRR SACRAMENTO
MW-14 DATALOGGER DATA
November, 1991

PUMPING

RECOVERY

Date	Time	Head	Elapsed			Date	Time	Head	Elapsed		
			Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)				Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)

13-Nov-91	04:06:44	PM 19.397	0.00	0.00	--	15-Nov-91	04:57:25	PM 18.386	0.00	1.01	--
13-Nov-91	04:06:54	PM 19.39	0.17	0.01	28428	15-Nov-91	04:57:29	PM 18.393	0.08	1.00	61067
13-Nov-91	04:07:04	PM 19.339	0.33	0.06	14214	15-Nov-91	04:57:35	PM 18.408	0.17	0.99	28428
13-Nov-91	04:07:14	PM 19.289	0.50	0.11	9503	15-Nov-91	04:57:39	PM 18.437	0.24	0.96	19398
13-Nov-91	04:07:24	PM 19.238	0.67	0.16	7122	15-Nov-91	04:57:44	PM 18.466	0.33	0.93	14463
13-Nov-91	04:07:34	PM 19.209	0.83	0.19	5695	15-Nov-91	04:57:50	PM 18.487	0.42	0.91	11410
13-Nov-91	04:07:44	PM 19.18	1.00	0.22	4745	15-Nov-91	04:57:54	PM 18.509	0.50	0.89	9586
13-Nov-91	04:07:54	PM 19.166	1.17	0.23	4071	15-Nov-91	04:58:00	PM 18.531	0.58	0.87	8142
13-Nov-91	04:08:04	PM 19.151	1.33	0.25	3561	15-Nov-91	04:58:04	PM 18.538	0.66	0.86	7184
13-Nov-91	04:08:14	PM 19.137	1.50	0.26	3165	15-Nov-91	04:58:10	PM 18.567	0.75	0.83	6329
13-Nov-91	04:08:24	PM 19.122	1.67	0.27	2848	15-Nov-91	04:58:14	PM 18.574	0.83	0.82	5735
13-Nov-91	04:08:34	PM 19.108	1.83	0.29	2590	15-Nov-91	04:58:19	PM 18.574	0.91	0.82	5210
13-Nov-91	04:08:44	PM 19.101	2.00	0.30	2374	15-Nov-91	04:58:25	PM 18.588	1.00	0.81	4752
13-Nov-91	04:08:54	PM 19.094	2.17	0.30	2191	15-Nov-91	04:58:29	PM 18.596	1.08	0.80	4403
13-Nov-91	04:09:04	PM 19.086	2.33	0.31	2034	15-Nov-91	04:58:35	PM 18.603	1.17	0.79	4071
13-Nov-91	04:09:14	PM 19.079	2.50	0.32	1900	15-Nov-91	04:58:39	PM 18.61	1.24	0.79	3817
13-Nov-91	04:09:24	PM 19.072	2.67	0.32	1781	15-Nov-91	04:58:45	PM 18.617	1.33	0.78	3561
13-Nov-91	04:09:34	PM 19.065	2.83	0.33	1676	15-Nov-91	04:58:49	PM 18.617	1.41	0.78	3365
13-Nov-91	04:09:44	PM 19.058	3.00	0.34	1582	15-Nov-91	04:58:54	PM 18.624	1.49	0.77	3177
13-Nov-91	04:09:54	PM 19.05	3.17	0.35	1500	15-Nov-91	04:59:00	PM 18.632	1.58	0.76	3001
13-Nov-91	04:10:04	PM 19.05	3.33	0.35	1424	15-Nov-91	04:59:04	PM 18.639	1.66	0.76	2858
13-Nov-91	04:10:14	PM 19.036	3.50	0.36	1356	15-Nov-91	04:59:10	PM 18.646	1.75	0.75	2714
13-Nov-91	04:10:24	PM 19.036	3.67	0.36	1295	15-Nov-91	04:59:14	PM 18.646	1.83	0.75	2597
13-Nov-91	04:10:34	PM 19.029	3.83	0.37	1239	15-Nov-91	04:59:20	PM 18.646	1.92	0.75	2478
13-Nov-91	04:10:44	PM 19.029	4.00	0.37	1187	15-Nov-91	04:59:24	PM 18.653	1.99	0.74	2381
13-Nov-91	04:10:54	PM 19.029	4.17	0.37	1139	15-Nov-91	04:59:29	PM 18.66	2.08	0.74	2285
13-Nov-91	04:11:04	PM 19.029	4.33	0.37	1096	15-Nov-91	04:59:35	PM 18.66	2.17	0.74	2191
13-Nov-91	04:11:14	PM 19.021	4.50	0.38	1055	15-Nov-91	04:59:39	PM 18.668	2.24	0.73	2115
13-Nov-91	04:11:24	PM 19.021	4.67	0.38	1017	15-Nov-91	04:59:45	PM 18.668	2.33	0.73	2036
13-Nov-91	04:11:34	PM 19.021	4.83	0.38	982	15-Nov-91	04:59:49	PM 18.675	2.41	0.72	1969
13-Nov-91	04:11:44	PM 19.007	5.00	0.40	950	15-Nov-91	04:59:55	PM 18.682	2.50	0.72	1900
13-Nov-91	04:11:54	PM 19.007	5.17	0.39	919	15-Nov-91	04:59:59	PM 18.682	2.58	0.72	1842
13-Nov-91	04:12:04	PM 19.007	5.33	0.39	890	15-Nov-91	05:00:04	PM 18.689	2.66	0.71	1784
13-Nov-91	04:12:14	PM 19.007	5.50	0.39	863	15-Nov-91	05:00:10	PM 18.689	2.75	0.71	1727
13-Nov-91	04:12:24	PM 19.007	5.67	0.39	838	15-Nov-91	05:00:14	PM 18.697	2.83	0.70	1679
13-Nov-91	04:12:34	PM 19.007	5.83	0.39	814	15-Nov-91	05:00:20	PM 18.704	2.92	0.69	1628

UPRR SACRAMENTO
MW-14 DATALOGGER DATA
November, 1991

PUMPING

RECOVERY

Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r^2/t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r^2/t (ft ² /min)
13-Nov-91	04:12:44 PM	19.007	6.00	0.39	791	15-Nov-91	05:00:24 PM	18.704	3.00	0.69	1585
13-Nov-91	04:12:54 PM	19.007	6.17	0.39	770	15-Nov-91	05:00:30 PM	18.704	3.08	0.69	1540
13-Nov-91	04:13:04 PM	19	6.33	0.40	750	15-Nov-91	05:00:34 PM	18.704	3.16	0.69	1502
13-Nov-91	04:13:14 PM	19	6.50	0.40	731	15-Nov-91	05:00:39 PM	18.711	3.24	0.69	1464
13-Nov-91	04:13:24 PM	18.993	6.67	0.40	712	15-Nov-91	05:00:45 PM	18.711	3.33	0.69	1424
13-Nov-91	04:13:34 PM	18.993	6.83	0.40	695	15-Nov-91	05:00:49 PM	18.711	3.41	0.69	1392
13-Nov-91	04:13:44 PM	18.993	7.00	0.40	678	15-Nov-91	05:00:55 PM	18.718	3.50	0.68	1357
13-Nov-91	04:13:54 PM	18.993	7.17	0.40	663	15-Nov-91	05:00:59 PM	18.718	3.58	0.68	1327
13-Nov-91	04:14:04 PM	18.993	7.33	0.40	647	15-Nov-91	05:01:05 PM	18.718	3.67	0.68	1295
13-Nov-91	04:14:14 PM	18.993	7.50	0.40	633	15-Nov-91	05:01:09 PM	18.725	3.75	0.67	1268
13-Nov-91	04:14:24 PM	18.985	7.67	0.41	619	15-Nov-91	05:01:14 PM	18.725	3.83	0.67	1241
13-Nov-91	04:14:34 PM	18.978	7.83	0.42	606	15-Nov-91	05:01:20 PM	18.74	3.92	0.66	1212
13-Nov-91	04:14:44 PM	18.978	8.00	0.42	594	15-Nov-91	05:01:24 PM	18.74	3.99	0.66	1189
13-Nov-91	04:14:54 PM	18.978	8.17	0.42	581	15-Nov-91	05:01:30 PM	18.733	4.08	0.66	1163
13-Nov-91	04:15:04 PM	18.978	8.33	0.42	570	15-Nov-91	05:01:34 PM	18.733	4.16	0.66	1141
13-Nov-91	04:15:14 PM	18.978	8.50	0.42	559	15-Nov-91	05:01:40 PM	18.733	4.25	0.66	1117
13-Nov-91	04:15:24 PM	18.978	8.67	0.42	548	15-Nov-91	05:01:44 PM	18.74	4.33	0.66	1097
13-Nov-91	04:15:34 PM	18.964	8.83	0.43	538	15-Nov-91	05:01:49 PM	18.747	4.41	0.65	1076
13-Nov-91	04:15:44 PM	18.985	9.00	0.41	528	15-Nov-91	05:01:55 PM	18.747	4.50	0.65	1055
13-Nov-91	04:15:54 PM	18.971	9.17	0.43	518	15-Nov-91	05:01:59 PM	18.747	4.58	0.65	1037
13-Nov-91	04:16:04 PM	18.971	9.33	0.43	509	15-Nov-91	05:02:05 PM	18.747	4.67	0.65	1017
13-Nov-91	04:16:14 PM	18.978	9.50	0.42	500	15-Nov-91	05:02:09 PM	18.747	4.74	0.65	1001
13-Nov-91	04:16:24 PM	18.964	9.67	0.43	491	15-Nov-91	05:02:15 PM	18.747	4.84	0.65	981
13-Nov-91	04:16:34 PM	18.964	9.83	0.43	483	15-Nov-91	05:02:19 PM	18.747	4.91	0.65	967
13-Nov-91	04:16:44 PM	18.964	10.00	0.43	475	15-Nov-91	05:02:24 PM	18.747	5.00	0.65	951
13-Nov-91	04:17:14 PM	18.956	10.50	0.44	452	15-Nov-91	05:02:30 PM	18.762	5.08	0.63	934
13-Nov-91	04:17:44 PM	18.956	11.00	0.44	432	15-Nov-91	05:02:34 PM	18.754	5.16	0.64	920
13-Nov-91	04:18:14 PM	18.956	11.50	0.44	413	15-Nov-91	05:02:40 PM	18.762	5.25	0.63	904
13-Nov-91	04:18:44 PM	18.949	12.00	0.45	396	15-Nov-91	05:02:44 PM	18.762	5.33	0.63	891
13-Nov-91	04:19:14 PM	18.949	12.50	0.45	380	15-Nov-91	05:02:49 PM	18.762	5.41	0.63	877
13-Nov-91	04:19:44 PM	18.942	13.00	0.45	365	15-Nov-91	05:02:55 PM	18.762	5.50	0.63	863
13-Nov-91	04:20:14 PM	18.935	13.50	0.46	352	15-Nov-91	05:02:59 PM	18.769	5.58	0.63	851
13-Nov-91	04:20:44 PM	18.935	14.00	0.46	339	15-Nov-91	05:03:05 PM	18.762	5.67	0.63	838
13-Nov-91	04:21:14 PM	18.935	14.50	0.46	327	15-Nov-91	05:03:09 PM	18.762	5.74	0.63	827
13-Nov-91	04:21:44 PM	18.928	15.00	0.47	317	15-Nov-91	05:03:15 PM	18.776	5.83	0.62	814
13-Nov-91	04:22:14 PM	18.928	15.50	0.47	306	15-Nov-91	05:03:19 PM	18.776	5.91	0.62	803
13-Nov-91	04:22:44 PM	18.92	16.00	0.48	297	15-Nov-91	05:03:24 PM	18.762	5.99	0.63	792
13-Nov-91	04:23:14 PM	18.92	16.50	0.48	288	15-Nov-91	05:03:30 PM	18.762	6.08	0.63	781
13-Nov-91	04:23:44 PM	18.913	17.00	0.48	279	15-Nov-91	05:03:34 PM	18.769	6.16	0.63	771
13-Nov-91	04:24:14 PM	18.913	17.50	0.48	271	15-Nov-91	05:03:40 PM	18.776	6.25	0.62	760
13-Nov-91	04:24:44 PM	18.906	18.00	0.49	264	15-Nov-91	05:03:44 PM	18.776	6.33	0.62	750
13-Nov-91	04:25:14 PM	18.913	18.50	0.48	257	15-Nov-91	05:03:50 PM	18.776	6.42	0.62	740
13-Nov-91	04:25:44 PM	18.906	19.00	0.49	250	15-Nov-91	05:03:54 PM	18.776	6.49	0.62	731
13-Nov-91	04:26:14 PM	18.906	19.50	0.49	244	15-Nov-91	05:03:59 PM	18.776	6.58	0.62	722
13-Nov-91	04:26:44 PM	18.906	20.00	0.49	237	15-Nov-91	05:04:05 PM	18.776	6.67	0.62	712
13-Nov-91	04:27:14 PM	18.906	20.50	0.49	232	15-Nov-91	05:04:09 PM	18.783	6.74	0.61	704

UPRR SACRAMENTO
MW-14 DATALOGGER DATA
November, 1991

PUMPING					RECOVERY						
Date	Time	Head	Elapsed Time (min.)	Drawdown r ² /t (feet) (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown r ² /t (feet) (ft ² /min)		
13-Nov-91	04:27:44 PM	18.906	21.00	0.49	226	15-Nov-91	05:04:15 PM	18.783	6.83	0.61	695
13-Nov-91	04:28:14 PM	18.891	21.50	0.51	221	15-Nov-91	05:04:19 PM	18.79	6.91	0.61	687
13-Nov-91	04:28:44 PM	18.891	22.00	0.51	216	15-Nov-91	05:04:25 PM	18.783	7.00	0.61	678
13-Nov-91	04:29:14 PM	18.891	22.50	0.51	211	15-Nov-91	05:04:29 PM	18.79	7.08	0.61	671
13-Nov-91	04:29:44 PM	18.891	23.00	0.51	206	15-Nov-91	05:04:34 PM	18.783	7.16	0.61	663
13-Nov-91	04:30:14 PM	18.891	23.50	0.51	202	15-Nov-91	05:04:40 PM	18.79	7.25	0.61	655
13-Nov-91	04:30:44 PM	18.884	24.00	0.51	198	15-Nov-91	05:04:44 PM	18.79	7.33	0.61	648
13-Nov-91	04:31:14 PM	18.884	24.50	0.51	194	15-Nov-91	05:04:50 PM	18.79	7.42	0.61	640
13-Nov-91	04:31:44 PM	18.877	25.00	0.52	190	15-Nov-91	05:04:54 PM	18.79	7.50	0.61	634
13-Nov-91	04:32:14 PM	18.877	25.50	0.52	186	15-Nov-91	05:05:00 PM	18.798	7.58	0.60	626
13-Nov-91	04:32:44 PM	18.877	26.00	0.52	183	15-Nov-91	05:05:04 PM	18.798	7.66	0.60	620
13-Nov-91	04:33:14 PM	18.877	26.50	0.52	179	15-Nov-91	05:05:09 PM	18.798	7.74	0.60	613
13-Nov-91	04:33:44 PM	18.877	27.00	0.52	176	15-Nov-91	05:05:15 PM	18.798	7.83	0.60	606
13-Nov-91	04:34:14 PM	18.87	27.50	0.53	173	15-Nov-91	05:05:19 PM	18.798	7.91	0.60	600
13-Nov-91	04:34:44 PM	18.87	28.00	0.53	170	15-Nov-91	05:05:25 PM	18.798	8.00	0.60	594
13-Nov-91	04:35:14 PM	18.87	28.50	0.53	167	15-Nov-91	05:05:29 PM	18.805	8.08	0.59	588
13-Nov-91	04:35:44 PM	18.87	29.00	0.53	164	15-Nov-91	05:05:35 PM	18.798	8.17	0.60	581
13-Nov-91	04:36:14 PM	18.863	29.50	0.53	161	15-Nov-91	05:05:39 PM	18.805	8.25	0.59	576
13-Nov-91	04:36:44 PM	18.863	30.00	0.53	158	15-Nov-91	05:05:44 PM	18.805	8.33	0.59	570
13-Nov-91	04:37:14 PM	18.863	30.50	0.53	156	15-Nov-91	05:06:14 PM	18.805	8.83	0.59	538
13-Nov-91	04:37:44 PM	18.863	31.00	0.53	153	15-Nov-91	05:06:44 PM	18.819	9.33	0.58	509
13-Nov-91	04:38:14 PM	18.855	31.50	0.54	151	15-Nov-91	05:07:14 PM	18.812	9.83	0.58	483
13-Nov-91	04:38:44 PM	18.855	32.00	0.54	148	15-Nov-91	05:07:44 PM	18.834	10.33	0.56	460
13-Nov-91	04:39:14 PM	18.855	32.50	0.54	146	15-Nov-91	05:08:14 PM	18.827	10.83	0.57	439
13-Nov-91	04:39:44 PM	18.855	33.00	0.54	144	15-Nov-91	05:08:44 PM	18.834	11.33	0.56	419
13-Nov-91	04:40:14 PM	18.855	33.50	0.54	142	15-Nov-91	05:09:14 PM	18.841	11.83	0.56	401
13-Nov-91	04:40:44 PM	18.848	34.00	0.55	140	15-Nov-91	05:09:44 PM	18.834	12.33	0.56	385
13-Nov-91	04:41:14 PM	18.848	34.50	0.55	138	15-Nov-91	05:10:14 PM	18.841	12.83	0.56	370
13-Nov-91	04:41:44 PM	18.848	35.00	0.55	136	15-Nov-91	05:10:44 PM	18.841	13.33	0.56	356
13-Nov-91	04:42:14 PM	18.841	35.50	0.56	134	15-Nov-91	05:11:14 PM	18.848	13.83	0.55	343
13-Nov-91	04:42:44 PM	18.841	36.00	0.56	132	15-Nov-91	05:11:44 PM	18.855	14.33	0.54	331
13-Nov-91	04:43:14 PM	18.841	36.50	0.56	130	15-Nov-91	05:12:14 PM	18.855	14.83	0.54	320
13-Nov-91	04:43:44 PM	18.841	37.00	0.56	128	15-Nov-91	05:12:44 PM	18.863	15.33	0.53	310
13-Nov-91	04:44:14 PM	18.841	37.50	0.56	127	15-Nov-91	05:13:14 PM	18.855	15.83	0.54	300
13-Nov-91	04:44:44 PM	18.834	38.00	0.56	125	15-Nov-91	05:13:44 PM	18.863	16.33	0.53	291
13-Nov-91	04:45:14 PM	18.834	38.50	0.56	123	15-Nov-91	05:14:14 PM	18.863	16.83	0.53	282
13-Nov-91	04:45:44 PM	18.834	39.00	0.56	122	15-Nov-91	05:14:44 PM	18.863	17.33	0.53	274
13-Nov-91	04:46:14 PM	18.834	39.50	0.56	120	15-Nov-91	05:15:14 PM	18.863	17.83	0.53	266
13-Nov-91	04:46:44 PM	18.834	40.00	0.56	119	15-Nov-91	05:15:44 PM	18.87	18.33	0.53	259
13-Nov-91	04:47:14 PM	18.834	40.50	0.56	117	15-Nov-91	05:16:14 PM	18.87	18.83	0.53	252
13-Nov-91	04:47:44 PM	18.834	41.00	0.56	116	15-Nov-91	05:16:44 PM	18.877	19.33	0.52	246
13-Nov-91	04:48:14 PM	18.841	41.50	0.56	114	15-Nov-91	05:17:14 PM	18.877	19.83	0.52	239
13-Nov-91	04:48:44 PM	18.827	42.00	0.57	113	15-Nov-91	05:17:44 PM	18.877	20.33	0.52	234
13-Nov-91	04:49:14 PM	18.819	42.50	0.58	112	15-Nov-91	05:18:14 PM	18.891	20.83	0.51	228
13-Nov-91	04:49:44 PM	18.819	43.00	0.58	110	15-Nov-91	05:18:44 PM	18.877	21.33	0.52	223
13-Nov-91	04:50:14 PM	18.819	43.50	0.58	109	15-Nov-91	05:19:14 PM	18.891	21.83	0.51	218

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PUMPING						RECOVERY					
Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
13-Nov-91	04:50:44 PM	18.819	44.00	0.58	108	15-Nov-91	05:19:44 PM	18.891	22.33	0.51	213
13-Nov-91	04:51:14 PM	18.819	44.50	0.58	107	15-Nov-91	05:20:14 PM	18.891	22.83	0.51	208
13-Nov-91	04:51:44 PM	18.819	45.00	0.58	106	15-Nov-91	05:20:44 PM	18.891	23.33	0.51	204
13-Nov-91	04:52:14 PM	18.812	45.50	0.58	104	15-Nov-91	05:21:14 PM	18.891	23.83	0.51	199
13-Nov-91	04:52:44 PM	18.812	46.00	0.58	103	15-Nov-91	05:21:44 PM	18.899	24.33	0.50	195
13-Nov-91	04:53:14 PM	18.812	46.50	0.58	102	15-Nov-91	05:22:14 PM	18.899	24.83	0.50	191
13-Nov-91	04:53:44 PM	18.812	47.00	0.58	101	15-Nov-91	05:22:44 PM	18.899	25.33	0.50	187
13-Nov-91	04:54:14 PM	18.812	47.50	0.58	100	15-Nov-91	05:23:14 PM	18.906	25.83	0.49	184
13-Nov-91	04:54:44 PM	18.805	48.00	0.59	99	15-Nov-91	05:23:44 PM	18.906	26.33	0.49	180
13-Nov-91	04:55:14 PM	18.805	48.50	0.59	98	15-Nov-91	05:24:14 PM	18.906	26.83	0.49	177
13-Nov-91	04:55:44 PM	18.805	49.00	0.59	97	15-Nov-91	05:24:44 PM	18.913	27.33	0.48	174
13-Nov-91	04:56:14 PM	18.805	49.50	0.59	96	15-Nov-91	05:25:14 PM	18.913	27.83	0.48	171
13-Nov-91	04:56:44 PM	18.805	50.00	0.59	95	15-Nov-91	05:25:44 PM	18.913	28.33	0.48	168
13-Nov-91	04:57:14 PM	18.805	50.50	0.59	94	15-Nov-91	05:26:14 PM	18.92	28.83	0.48	165
13-Nov-91	04:57:44 PM	18.812	51.00	0.58	93	15-Nov-91	05:26:44 PM	18.92	29.33	0.48	162
13-Nov-91	04:58:14 PM	18.805	51.50	0.59	92	15-Nov-91	05:27:14 PM	18.92	29.83	0.48	159
13-Nov-91	04:58:44 PM	18.805	52.00	0.59	91	15-Nov-91	05:27:44 PM	18.92	30.33	0.48	157
13-Nov-91	04:59:14 PM	18.805	52.50	0.59	90	15-Nov-91	05:28:14 PM	18.92	30.83	0.48	154
13-Nov-91	04:59:44 PM	18.805	53.00	0.59	90	15-Nov-91	05:28:44 PM	18.928	31.33	0.47	152
13-Nov-91	05:00:14 PM	18.805	53.50	0.59	89	15-Nov-91	05:29:14 PM	18.92	31.83	0.48	149
13-Nov-91	05:00:44 PM	18.805	54.00	0.59	88	15-Nov-91	05:29:44 PM	18.928	32.33	0.47	147
13-Nov-91	05:01:14 PM	18.805	54.50	0.59	87	15-Nov-91	05:30:14 PM	18.928	32.83	0.47	145
13-Nov-91	05:01:44 PM	18.798	55.00	0.60	86	15-Nov-91	05:30:44 PM	18.928	33.33	0.47	142
13-Nov-91	05:02:14 PM	18.798	55.50	0.60	86	15-Nov-91	05:31:14 PM	18.935	33.83	0.46	140
13-Nov-91	05:02:44 PM	18.798	56.00	0.60	85	15-Nov-91	05:31:44 PM	18.935	34.33	0.46	138
13-Nov-91	05:03:14 PM	18.798	56.50	0.60	84	15-Nov-91	05:32:14 PM	18.935	34.83	0.46	136
13-Nov-91	05:03:44 PM	18.798	57.00	0.60	83	15-Nov-91	05:32:44 PM	18.935	35.33	0.46	134
13-Nov-91	05:04:14 PM	18.79	57.50	0.61	83	15-Nov-91	05:33:14 PM	18.935	35.83	0.46	133
13-Nov-91	05:04:44 PM	18.798	58.00	0.60	82	15-Nov-91	05:33:44 PM	18.935	36.33	0.46	131
13-Nov-91	05:05:14 PM	18.79	58.50	0.61	81	15-Nov-91	05:34:14 PM	18.942	36.83	0.45	129
13-Nov-91	05:05:44 PM	18.798	59.00	0.60	80	15-Nov-91	05:34:44 PM	18.942	37.33	0.45	127
13-Nov-91	05:06:14 PM	18.79	59.50	0.61	80	15-Nov-91	05:35:14 PM	18.942	37.83	0.45	126
13-Nov-91	05:06:44 PM	18.79	60.00	0.61	79	15-Nov-91	05:35:44 PM	18.942	38.33	0.45	124
13-Nov-91	05:07:44 PM	18.79	61.00	0.61	78	15-Nov-91	05:36:14 PM	18.949	38.83	0.45	122
13-Nov-91	05:08:44 PM	18.79	62.00	0.61	77	15-Nov-91	05:36:44 PM	18.949	39.33	0.45	121
13-Nov-91	05:09:44 PM	18.79	63.00	0.61	75	15-Nov-91	05:37:14 PM	18.949	39.83	0.45	119
13-Nov-91	05:10:44 PM	18.79	64.00	0.61	74	15-Nov-91	05:37:44 PM	18.956	40.33	0.44	118
13-Nov-91	05:11:44 PM	18.79	65.00	0.61	73	15-Nov-91	05:38:14 PM	18.956	40.83	0.44	116
13-Nov-91	05:12:44 PM	18.79	66.00	0.61	72	15-Nov-91	05:38:44 PM	18.956	41.33	0.44	115
13-Nov-91	05:13:44 PM	18.783	67.00	0.61	71	15-Nov-91	05:39:14 PM	18.956	41.83	0.44	114
13-Nov-91	05:14:44 PM	18.783	68.00	0.61	70	15-Nov-91	05:39:44 PM	18.964	42.33	0.43	112
13-Nov-91	05:15:44 PM	18.783	69.00	0.61	69	15-Nov-91	05:40:14 PM	18.964	42.83	0.43	111
13-Nov-91	05:16:44 PM	18.776	70.00	0.62	68	15-Nov-91	05:40:44 PM	18.964	43.33	0.43	110
13-Nov-91	05:17:44 PM	18.776	71.00	0.62	67	15-Nov-91	05:41:14 PM	18.964	43.83	0.43	108
13-Nov-91	05:18:44 PM	18.783	72.00	0.61	66	15-Nov-91	05:41:44 PM	18.964	44.33	0.43	107
13-Nov-91	05:19:44 PM	18.783	73.00	0.61	65	15-Nov-91	05:42:14 PM	18.964	44.83	0.43	106

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PUMPING						RECOVERY					
Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
13-Nov-91	05:20:44 PM	18.783	74.00	0.61	64	15-Nov-91	05:42:44 PM	18.964	45.33	0.43	105
13-Nov-91	05:21:44 PM	18.776	75.00	0.62	63	15-Nov-91	05:43:14 PM	18.964	45.83	0.43	104
13-Nov-91	05:22:44 PM	18.776	76.00	0.62	62	15-Nov-91	05:43:44 PM	18.971	46.33	0.43	103
13-Nov-91	05:23:44 PM	18.776	77.00	0.62	62	15-Nov-91	05:44:14 PM	18.964	46.83	0.43	101
13-Nov-91	05:24:44 PM	18.776	78.00	0.62	61	15-Nov-91	05:44:44 PM	18.964	47.33	0.43	100
13-Nov-91	05:25:44 PM	18.783	79.00	0.61	60	15-Nov-91	05:45:14 PM	18.964	47.83	0.43	99
13-Nov-91	05:26:44 PM	18.776	80.00	0.62	59	15-Nov-91	05:45:44 PM	18.964	48.33	0.43	98
13-Nov-91	05:27:44 PM	18.776	81.00	0.62	59	15-Nov-91	05:46:14 PM	18.964	48.83	0.43	97
13-Nov-91	05:28:44 PM	18.783	82.00	0.61	58	15-Nov-91	05:46:44 PM	18.964	49.33	0.43	96
13-Nov-91	05:29:44 PM	18.783	83.00	0.61	57	15-Nov-91	05:47:14 PM	18.964	49.83	0.43	95
13-Nov-91	05:30:44 PM	18.776	84.00	0.62	57	15-Nov-91	05:47:44 PM	18.971	50.33	0.43	94
13-Nov-91	05:31:44 PM	18.776	85.00	0.62	56	15-Nov-91	05:48:14 PM	18.971	50.83	0.43	93
13-Nov-91	05:32:44 PM	18.776	86.00	0.62	55	15-Nov-91	05:48:44 PM	18.971	51.33	0.43	93
13-Nov-91	05:33:44 PM	18.776	87.00	0.62	55	15-Nov-91	05:49:14 PM	18.971	51.83	0.43	92
13-Nov-91	05:34:44 PM	18.776	88.00	0.62	54	15-Nov-91	05:49:44 PM	18.971	52.33	0.43	91
13-Nov-91	05:35:44 PM	18.776	89.00	0.62	53	15-Nov-91	05:50:14 PM	18.971	52.83	0.43	90
13-Nov-91	05:36:44 PM	18.776	90.00	0.62	53	15-Nov-91	05:50:44 PM	18.971	53.33	0.43	89
13-Nov-91	05:37:44 PM	18.776	91.00	0.62	52	15-Nov-91	05:51:14 PM	18.971	53.83	0.43	88
13-Nov-91	05:38:44 PM	18.776	92.00	0.62	52	15-Nov-91	05:51:44 PM	18.978	54.33	0.42	87
13-Nov-91	05:39:44 PM	18.776	93.00	0.62	51	15-Nov-91	05:52:14 PM	18.978	54.83	0.42	87
13-Nov-91	05:40:44 PM	18.776	94.00	0.62	51	15-Nov-91	05:52:44 PM	18.971	55.33	0.43	86
13-Nov-91	05:41:44 PM	18.776	95.00	0.62	50	15-Nov-91	05:53:14 PM	18.978	55.83	0.42	85
13-Nov-91	05:42:44 PM	18.776	96.00	0.62	49	15-Nov-91	05:53:44 PM	18.978	56.33	0.42	84
13-Nov-91	05:43:44 PM	18.769	97.00	0.63	49	15-Nov-91	05:54:14 PM	18.978	56.83	0.42	84
13-Nov-91	05:44:44 PM	18.762	98.00	0.63	48	15-Nov-91	05:54:44 PM	18.978	57.33	0.42	83
13-Nov-91	05:45:44 PM	18.776	99.00	0.62	48	15-Nov-91	05:55:14 PM	18.978	57.83	0.42	82
13-Nov-91	05:46:44 PM	18.769	100.00	0.63	47	15-Nov-91	05:55:45 PM	18.978	58.33	0.42	81
13-Nov-91	05:47:44 PM	18.769	101.00	0.63	47	15-Nov-91	05:56:44 PM	18.978	59.33	0.42	80
13-Nov-91	05:48:44 PM	18.769	102.00	0.63	47	15-Nov-91	05:57:44 PM	18.978	60.33	0.42	79
13-Nov-91	05:49:44 PM	18.769	103.00	0.63	46	15-Nov-91	05:58:44 PM	18.978	61.33	0.42	77
13-Nov-91	05:50:44 PM	18.769	104.00	0.63	46	15-Nov-91	05:59:44 PM	18.978	62.33	0.42	76
13-Nov-91	05:51:44 PM	18.769	105.00	0.63	45	15-Nov-91	06:00:44 PM	18.985	63.33	0.41	75
13-Nov-91	05:52:44 PM	18.762	106.00	0.63	45	15-Nov-91	06:01:44 PM	18.985	64.33	0.41	74
13-Nov-91	05:53:44 PM	18.762	107.00	0.63	44	15-Nov-91	06:02:44 PM	18.985	65.33	0.41	73
13-Nov-91	05:54:44 PM	18.762	108.00	0.63	44	15-Nov-91	06:03:44 PM	18.985	66.33	0.41	72
13-Nov-91	05:55:44 PM	18.762	109.00	0.63	44	15-Nov-91	06:04:44 PM	18.985	67.33	0.41	71
13-Nov-91	05:56:44 PM	18.762	110.00	0.63	43	15-Nov-91	06:05:44 PM	18.993	68.33	0.40	69
13-Nov-91	05:57:44 PM	18.762	111.00	0.63	43	15-Nov-91	06:06:44 PM	18.993	69.33	0.40	68
13-Nov-91	05:58:44 PM	18.762	112.00	0.63	42	15-Nov-91	06:07:44 PM	18.993	70.33	0.40	68
13-Nov-91	05:59:44 PM	18.762	113.00	0.63	42	15-Nov-91	06:08:44 PM	18.993	71.33	0.40	67
13-Nov-91	06:00:44 PM	18.762	114.00	0.63	42	15-Nov-91	06:09:44 PM	18.993	72.33	0.40	66
13-Nov-91	06:01:44 PM	18.762	115.00	0.63	41	15-Nov-91	06:10:44 PM	18.993	73.33	0.40	65
13-Nov-91	06:02:44 PM	18.762	116.00	0.63	41	15-Nov-91	06:11:44 PM	18.993	74.33	0.40	64
13-Nov-91	06:03:44 PM	18.762	117.00	0.63	41	15-Nov-91	06:12:44 PM	18.993	75.33	0.40	63
13-Nov-91	06:04:44 PM	18.762	118.00	0.63	40	15-Nov-91	06:13:44 PM	18.993	76.33	0.40	62
13-Nov-91	06:05:44 PM	18.762	119.00	0.63	40	15-Nov-91	06:14:44 PM	18.993	77.33	0.40	61

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Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
13-Nov-91	06:06:45 PM	18.762	120.00	0.63	40	15-Nov-91	06:15:44 PM	18.993	78.33	0.40	61
13-Nov-91	06:11:44 PM	18.762	125.00	0.63	38	15-Nov-91	06:16:44 PM	18.993	79.33	0.40	60
13-Nov-91	06:16:44 PM	18.762	130.00	0.63	37	15-Nov-91	06:17:44 PM	18.993	80.33	0.40	59
13-Nov-91	06:21:44 PM	18.754	135.00	0.64	35	15-Nov-91	06:18:44 PM	18.985	81.33	0.41	58
13-Nov-91	06:26:44 PM	18.754	140.00	0.64	34	15-Nov-91	06:19:44 PM	18.993	82.33	0.40	58
13-Nov-91	06:31:44 PM	18.754	145.00	0.64	33	15-Nov-91	06:20:44 PM	19	83.33	0.40	57
13-Nov-91	06:36:44 PM	18.747	150.00	0.65	32	15-Nov-91	06:21:44 PM	19	84.33	0.40	56
13-Nov-91	06:41:44 PM	18.747	155.00	0.65	31	15-Nov-91	06:22:44 PM	19	85.33	0.40	56
13-Nov-91	06:46:44 PM	18.747	160.00	0.65	30	15-Nov-91	06:23:44 PM	19	86.33	0.40	55
13-Nov-91	06:51:44 PM	18.747	165.00	0.65	29	15-Nov-91	06:24:44 PM	19.007	87.33	0.39	54
13-Nov-91	06:56:44 PM	18.747	170.00	0.65	28	15-Nov-91	06:25:44 PM	19.007	88.33	0.39	54
13-Nov-91	07:01:44 PM	18.747	175.00	0.65	27	15-Nov-91	06:26:44 PM	19.007	89.33	0.39	53
13-Nov-91	07:06:44 PM	18.74	180.00	0.66	26	15-Nov-91	06:27:44 PM	19.007	90.33	0.39	53
13-Nov-91	07:11:44 PM	18.733	185.00	0.66	26	15-Nov-91	06:28:44 PM	19.007	91.33	0.39	52
13-Nov-91	07:16:44 PM	18.733	190.00	0.66	25	15-Nov-91	06:29:44 PM	19.007	92.33	0.39	51
13-Nov-91	07:21:44 PM	18.733	195.00	0.66	24	15-Nov-91	06:30:44 PM	19.007	93.33	0.39	51
13-Nov-91	07:26:44 PM	18.725	200.00	0.67	24	15-Nov-91	06:31:44 PM	19.007	94.33	0.39	50
13-Nov-91	07:31:44 PM	18.725	205.00	0.67	23	15-Nov-91	06:32:44 PM	19.007	95.33	0.39	50
13-Nov-91	07:36:44 PM	18.718	210.00	0.68	23	15-Nov-91	06:33:44 PM	19.007	96.33	0.39	49
13-Nov-91	07:41:44 PM	18.718	215.00	0.68	22	15-Nov-91	06:34:44 PM	19.007	97.33	0.39	49
13-Nov-91	07:46:44 PM	18.718	220.00	0.68	22	15-Nov-91	06:35:44 PM	19.007	98.33	0.39	48
13-Nov-91	07:51:44 PM	18.711	225.00	0.69	21	15-Nov-91	06:36:44 PM	19.014	99.33	0.38	48
13-Nov-91	07:56:44 PM	18.711	230.00	0.69	21	15-Nov-91	06:37:44 PM	19.007	100.33	0.39	47
13-Nov-91	08:01:44 PM	18.711	235.00	0.69	20	15-Nov-91	06:38:44 PM	19.014	101.33	0.38	47
13-Nov-91	08:06:44 PM	18.711	240.00	0.69	20	15-Nov-91	06:39:44 PM	19.014	102.33	0.38	46
13-Nov-91	08:11:44 PM	18.711	245.00	0.69	19	15-Nov-91	06:40:44 PM	19.014	103.33	0.38	46
13-Nov-91	08:16:44 PM	18.718	250.00	0.68	19	15-Nov-91	06:41:44 PM	19.014	104.33	0.38	46
13-Nov-91	08:21:44 PM	18.711	255.00	0.69	19	15-Nov-91	06:42:44 PM	19.021	105.33	0.38	45
13-Nov-91	08:26:44 PM	18.711	260.00	0.69	18	15-Nov-91	06:43:44 PM	19.021	106.33	0.38	45
13-Nov-91	08:31:44 PM	18.704	265.00	0.69	18	15-Nov-91	06:44:44 PM	19.021	107.33	0.38	44
13-Nov-91	08:36:44 PM	18.704	270.00	0.69	18	15-Nov-91	06:45:44 PM	19.021	108.33	0.38	44
13-Nov-91	08:41:44 PM	18.704	275.00	0.69	17	15-Nov-91	06:46:44 PM	19.021	109.33	0.38	43
13-Nov-91	08:46:44 PM	18.704	280.00	0.69	17	15-Nov-91	06:47:44 PM	19.021	110.33	0.38	43
13-Nov-91	08:51:44 PM	18.704	285.00	0.69	17	15-Nov-91	06:48:44 PM	19.021	111.33	0.38	43
13-Nov-91	08:56:44 PM	18.704	290.00	0.69	16	15-Nov-91	06:49:44 PM	19.014	112.33	0.38	42
13-Nov-91	09:01:44 PM	18.704	295.00	0.69	16	15-Nov-91	06:50:44 PM	19.021	113.33	0.38	42
13-Nov-91	09:06:44 PM	18.704	300.00	0.69	16	15-Nov-91	06:51:44 PM	19.021	114.33	0.38	42
13-Nov-91	09:11:44 PM	18.711	305.00	0.69	16	15-Nov-91	06:52:44 PM	19.021	115.33	0.38	41
13-Nov-91	09:16:44 PM	18.711	310.00	0.69	15	15-Nov-91	06:53:44 PM	19.021	116.33	0.38	41
13-Nov-91	09:21:44 PM	18.711	315.00	0.69	15	15-Nov-91	06:54:44 PM	19.029	117.33	0.37	40
13-Nov-91	09:26:44 PM	18.704	320.00	0.69	15	15-Nov-91	06:55:44 PM	19.021	118.33	0.38	40
13-Nov-91	09:31:44 PM	18.704	325.00	0.69	15	15-Nov-91	07:00:44 PM	19.029	123.33	0.37	39
13-Nov-91	09:36:44 PM	18.697	330.00	0.70	14	15-Nov-91	07:05:44 PM	19.036	128.33	0.36	37
13-Nov-91	09:41:44 PM	18.697	335.00	0.70	14	15-Nov-91	07:10:44 PM	19.043	133.33	0.35	36
13-Nov-91	09:46:44 PM	18.689	340.00	0.71	14	15-Nov-91	07:15:44 PM	19.05	138.33	0.35	34
13-Nov-91	09:51:44 PM	18.689	345.00	0.71	14	15-Nov-91	07:20:44 PM	19.05	143.33	0.35	33

UPRR SACRAMENTO
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PUMPING

RECOVERY

PUMPING					RECOVERY					
Date	Time	Head	Elapsed Time (min.)	Drawdown r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown r ² /t (ft ² /min)	
13-Nov-91	09:56:44 PM	18.689	350.00	0.71	14	15-Nov-91 07:25:44 PM	19.065	148.33	0.33	32
13-Nov-91	10:01:44 PM	18.689	355.00	0.71	13	15-Nov-91 07:30:44 PM	19.065	153.33	0.33	31
13-Nov-91	10:06:44 PM	18.689	360.00	0.71	13	15-Nov-91 07:35:44 PM	19.072	158.33	0.32	30
13-Nov-91	10:11:44 PM	18.689	365.00	0.71	13	15-Nov-91 07:40:44 PM	19.072	163.33	0.32	29
13-Nov-91	10:16:44 PM	18.697	370.00	0.70	13	15-Nov-91 07:45:44 PM	19.079	168.33	0.32	28
13-Nov-91	10:21:44 PM	18.689	375.00	0.71	13	15-Nov-91 07:50:44 PM	19.079	173.33	0.32	27
13-Nov-91	10:26:44 PM	18.689	380.00	0.71	12	15-Nov-91 07:55:44 PM	19.079	178.33	0.32	27
13-Nov-91	10:31:44 PM	18.689	385.00	0.71	12	15-Nov-91 08:00:44 PM	19.086	183.33	0.31	26
13-Nov-91	10:36:44 PM	18.689	390.00	0.71	12	15-Nov-91 08:05:44 PM	19.086	188.33	0.31	25
13-Nov-91	10:41:44 PM	18.689	395.00	0.71	12	15-Nov-91 08:10:44 PM	19.094	193.33	0.30	25
13-Nov-91	10:46:44 PM	18.689	400.00	0.71	12	15-Nov-91 08:15:44 PM	19.086	198.33	0.31	24
13-Nov-91	10:51:44 PM	18.682	405.00	0.72	12	15-Nov-91 08:20:44 PM	19.094	203.33	0.30	23
13-Nov-91	10:56:44 PM	18.682	410.00	0.72	12	15-Nov-91 08:25:44 PM	19.094	208.33	0.30	23
13-Nov-91	11:01:44 PM	18.682	415.00	0.72	11	15-Nov-91 08:30:44 PM	19.094	213.33	0.30	22
13-Nov-91	11:06:44 PM	18.682	420.00	0.72	11	15-Nov-91 08:35:44 PM	19.094	218.33	0.30	22
13-Nov-91	11:21:44 PM	18.668	435.00	0.73	11	15-Nov-91 08:40:44 PM	19.094	223.33	0.30	21
13-Nov-91	11:36:44 PM	18.668	450.00	0.73	11	15-Nov-91 08:45:44 PM	19.101	228.33	0.30	21
13-Nov-91	11:51:44 PM	18.66	465.00	0.74	10	15-Nov-91 08:50:44 PM	19.094	233.33	0.30	20
14-Nov-91	12:06:44 AM	18.66	480.00	0.74	10	15-Nov-91 08:55:44 PM	19.101	238.33	0.30	20
14-Nov-91	12:21:44 AM	18.66	495.00	0.74	10	15-Nov-91 09:00:44 PM	19.108	243.33	0.29	20
14-Nov-91	12:36:44 AM	18.66	510.00	0.74	9	15-Nov-91 09:05:44 PM	19.108	248.33	0.29	19
14-Nov-91	12:51:44 AM	18.653	525.00	0.74	9	15-Nov-91 09:10:44 PM	19.108	253.33	0.29	19
14-Nov-91	01:06:44 AM	18.653	540.00	0.74	9	15-Nov-91 09:15:44 PM	19.115	258.33	0.28	18
14-Nov-91	01:21:44 AM	18.646	555.00	0.75	9	15-Nov-91 09:20:44 PM	19.108	263.33	0.29	18
14-Nov-91	01:36:44 AM	18.639	570.00	0.76	8	15-Nov-91 09:25:44 PM	19.115	268.33	0.28	18
14-Nov-91	01:51:44 AM	18.639	585.00	0.76	8	15-Nov-91 09:30:44 PM	19.122	273.33	0.27	17
14-Nov-91	02:06:44 AM	18.632	600.00	0.76	8	15-Nov-91 09:35:44 PM	19.122	278.33	0.27	17
14-Nov-91	02:21:44 AM	18.632	615.00	0.76	8	15-Nov-91 09:40:44 PM	19.122	283.33	0.27	17
14-Nov-91	02:36:44 AM	18.632	630.00	0.76	8	15-Nov-91 09:45:44 PM	19.122	288.33	0.27	16
14-Nov-91	02:51:44 AM	18.632	645.00	0.76	7	15-Nov-91 09:50:44 PM	19.122	293.33	0.27	16
14-Nov-91	03:06:44 AM	18.632	660.00	0.76	7	15-Nov-91 09:55:44 PM	19.13	298.33	0.27	16
14-Nov-91	03:21:44 AM	18.632	675.00	0.76	7	15-Nov-91 10:00:44 PM	19.13	303.33	0.27	16
14-Nov-91	03:36:44 AM	18.632	690.00	0.76	7	15-Nov-91 10:05:44 PM	19.137	308.33	0.26	15
14-Nov-91	03:51:44 AM	18.624	705.00	0.77	7	15-Nov-91 10:10:44 PM	19.137	313.33	0.26	15
14-Nov-91	04:06:44 AM	18.617	720.00	0.78	7	15-Nov-91 10:15:44 PM	19.137	318.33	0.26	15
14-Nov-91	04:21:44 AM	18.61	735.00	0.79	6	15-Nov-91 10:20:44 PM	19.137	323.33	0.26	15
14-Nov-91	04:36:44 AM	18.61	750.00	0.79	6	15-Nov-91 10:25:44 PM	19.137	328.33	0.26	14
14-Nov-91	04:51:44 AM	18.61	765.00	0.79	6	15-Nov-91 10:30:44 PM	19.137	333.33	0.26	14
14-Nov-91	05:06:44 AM	18.61	780.00	0.79	6	15-Nov-91 10:35:44 PM	19.137	338.33	0.26	14
14-Nov-91	05:21:44 AM	18.61	795.00	0.79	6	15-Nov-91 10:40:44 PM	19.137	343.33	0.26	14
14-Nov-91	05:36:44 AM	18.61	810.00	0.79	6	15-Nov-91 10:45:44 PM	19.137	348.33	0.26	14
14-Nov-91	05:51:44 AM	18.603	825.00	0.79	6	15-Nov-91 10:50:44 PM	19.144	353.33	0.25	13
14-Nov-91	06:06:44 AM	18.603	840.00	0.79	6	15-Nov-91 10:55:44 PM	19.144	358.33	0.25	13
14-Nov-91	06:21:44 AM	18.596	855.00	0.80	6	15-Nov-91 11:00:44 PM	19.137	363.33	0.26	13
14-Nov-91	06:36:44 AM	18.596	870.00	0.80	5	15-Nov-91 11:05:44 PM	19.144	368.33	0.25	13
14-Nov-91	06:51:44 AM	18.588	885.00	0.81	5	15-Nov-91 11:10:44 PM	19.144	373.33	0.25	13

UPRR SACRAMENTO
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PUMPING

RECOVERY

Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
14-Nov-91	07:06:44 AM	18.581	900.00	0.82	5	15-Nov-91	11:15:44 PM	19.151	378.33	0.25	13
14-Nov-91	07:21:44 AM	18.581	915.00	0.82	5	15-Nov-91	11:20:44 PM	19.151	383.33	0.25	12
14-Nov-91	07:36:44 AM	18.581	930.00	0.82	5	15-Nov-91	11:25:44 PM	19.151	388.33	0.25	12
14-Nov-91	07:51:44 AM	18.581	945.00	0.82	5	15-Nov-91	11:30:44 PM	19.151	393.33	0.25	12
14-Nov-91	08:06:44 AM	18.574	960.00	0.82	5	15-Nov-91	11:35:44 PM	19.159	398.33	0.24	12
14-Nov-91	08:21:44 AM	18.581	975.00	0.82	5	15-Nov-91	11:40:44 PM	19.166	403.33	0.23	12
14-Nov-91	08:36:44 AM	18.574	990.00	0.82	5	15-Nov-91	11:45:44 PM	19.166	408.33	0.23	12
14-Nov-91	08:51:44 AM	18.574	1005.00	0.82	5	15-Nov-91	11:50:44 PM	19.159	413.33	0.24	11
14-Nov-91	09:06:44 AM	18.574	1020.00	0.82	5	15-Nov-91	11:55:45 PM	19.166	418.33	0.23	11
14-Nov-91	09:21:44 AM	18.574	1035.00	0.82	5	16-Nov-91	12:10:44 AM	19.166	433.33	0.23	11
14-Nov-91	09:36:44 AM	18.574	1050.00	0.82	5	16-Nov-91	12:25:44 AM	19.173	448.33	0.22	11
14-Nov-91	09:51:44 AM	18.567	1065.00	0.83	4	16-Nov-91	12:40:44 AM	19.18	463.33	0.22	10
14-Nov-91	10:06:44 AM	18.567	1080.00	0.83	4	16-Nov-91	12:55:44 AM	19.18	478.33	0.22	10
14-Nov-91	10:21:45 AM	18.567	1095.00	0.83	4	16-Nov-91	01:10:44 AM	19.187	493.33	0.21	10
14-Nov-91	10:36:44 AM	18.567	1110.00	0.83	4	16-Nov-91	01:25:44 AM	19.187	508.33	0.21	9
14-Nov-91	10:51:44 AM	18.574	1125.00	0.82	4	16-Nov-91	01:40:44 AM	19.187	523.33	0.21	9
14-Nov-91	11:06:44 AM	18.574	1140.00	0.82	4	16-Nov-91	01:55:44 AM	19.187	538.33	0.21	9
14-Nov-91	11:21:44 AM	18.567	1155.00	0.83	4	16-Nov-91	02:10:44 AM	19.195	553.33	0.20	9
14-Nov-91	11:36:44 AM	18.559	1170.00	0.84	4	16-Nov-91	02:25:44 AM	19.202	568.33	0.19	8
14-Nov-91	11:51:44 AM	18.559	1185.00	0.84	4	16-Nov-91	02:40:44 AM	19.209	583.33	0.19	8
14-Nov-91	12:06:44 PM	18.567	1200.00	0.83	4	16-Nov-91	02:55:44 AM	19.209	598.33	0.19	8
14-Nov-91	12:21:44 PM	18.559	1215.00	0.84	4	16-Nov-91	03:10:44 AM	19.216	613.33	0.18	8
14-Nov-91	12:36:44 PM	18.559	1230.00	0.84	4	16-Nov-91	03:25:44 AM	19.216	628.33	0.18	8
14-Nov-91	12:51:44 PM	18.559	1245.00	0.84	4	16-Nov-91	03:40:44 AM	19.216	643.33	0.18	7
14-Nov-91	01:06:44 PM	18.552	1260.00	0.84	4	16-Nov-91	03:55:44 AM	19.216	658.33	0.18	7
14-Nov-91	01:21:44 PM	18.545	1275.00	0.85	4	16-Nov-91	04:10:44 AM	19.209	673.33	0.19	7
14-Nov-91	01:36:44 PM	18.552	1290.00	0.84	4	16-Nov-91	04:25:44 AM	19.209	688.33	0.19	7
14-Nov-91	01:51:44 PM	18.545	1305.00	0.85	4	16-Nov-91	04:40:44 AM	19.216	703.33	0.18	7
14-Nov-91	02:06:44 PM	18.545	1320.00	0.85	4	16-Nov-91	04:55:44 AM	19.216	718.33	0.18	7
14-Nov-91	02:21:44 PM	18.545	1335.00	0.85	4	16-Nov-91	05:10:44 AM	19.224	733.33	0.17	6
14-Nov-91	02:36:44 PM	18.531	1350.00	0.87	4	16-Nov-91	05:25:44 AM	19.231	748.33	0.17	6
14-Nov-91	02:51:44 PM	18.538	1365.00	0.86	3	16-Nov-91	05:40:44 AM	19.231	763.33	0.17	6
14-Nov-91	03:06:44 PM	18.523	1380.00	0.87	3	16-Nov-91	05:55:44 AM	19.224	778.33	0.17	6
14-Nov-91	03:21:44 PM	18.531	1395.00	0.87	3	16-Nov-91	06:10:44 AM	19.224	793.33	0.17	6
14-Nov-91	03:36:44 PM	18.531	1410.00	0.87	3	16-Nov-91	06:25:44 AM	19.238	808.33	0.16	6
14-Nov-91	03:51:44 PM	18.523	1425.00	0.87	3	16-Nov-91	06:40:44 AM	19.238	823.33	0.16	6
14-Nov-91	04:06:44 PM	18.523	1440.00	0.87	3	16-Nov-91	06:55:44 AM	19.224	838.33	0.17	6
14-Nov-91	04:21:44 PM	18.516	1455.00	0.88	3	16-Nov-91	07:10:44 AM	19.238	853.33	0.16	6
14-Nov-91	04:36:44 PM	18.516	1470.00	0.88	3	16-Nov-91	07:25:44 AM	19.224	868.33	0.17	5
14-Nov-91	04:51:44 PM	18.516	1485.00	0.88	3	16-Nov-91	07:40:44 AM	19.224	883.33	0.17	5
14-Nov-91	05:06:44 PM	18.516	1500.00	0.88	3	16-Nov-91	07:55:44 AM	19.231	898.33	0.17	5
14-Nov-91	05:21:44 PM	18.509	1515.00	0.89	3	16-Nov-91	08:10:44 AM	19.238	913.33	0.16	5
14-Nov-91	05:36:44 PM	18.502	1530.00	0.89	3	16-Nov-91	08:25:44 AM	19.238	928.33	0.16	5
14-Nov-91	05:51:44 PM	18.509	1545.00	0.89	3	16-Nov-91	08:40:44 AM	19.238	943.33	0.16	5
14-Nov-91	06:06:44 PM	18.509	1560.00	0.89	3	16-Nov-91	08:55:44 AM	19.252	958.33	0.14	5
14-Nov-91	06:21:44 PM	18.502	1575.00	0.89	3	16-Nov-91	09:10:44 AM	19.252	973.33	0.14	5

UPRR SACRAMENTO
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PUMPING

RECOVERY

PUMPING						RECOVERY					
Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
14-Nov-91	06:36:44 PM	18.502	1590.00	0.89	3	16-Nov-91	09:25:44 AM	19.26	988.33	0.14	5
14-Nov-91	06:51:44 PM	18.494	1605.00	0.90	3	16-Nov-91	09:40:44 AM	19.26	1003.33	0.14	5
14-Nov-91	07:06:44 PM	18.494	1620.00	0.90	3	16-Nov-91	09:55:44 AM	19.26	1018.33	0.14	5
14-Nov-91	07:21:44 PM	18.494	1635.00	0.90	3	16-Nov-91	10:10:44 AM	19.26	1033.33	0.14	5
14-Nov-91	07:36:44 PM	18.494	1650.00	0.90	3	16-Nov-91	10:25:44 AM	19.267	1048.33	0.13	5
14-Nov-91	07:51:44 PM	18.487	1665.00	0.91	3	16-Nov-91	10:40:44 AM	19.274	1063.33	0.12	4
14-Nov-91	08:06:44 PM	18.494	1680.00	0.90	3	16-Nov-91	10:55:44 AM	19.281	1078.33	0.12	4
14-Nov-91	08:21:44 PM	18.487	1695.00	0.91	3	16-Nov-91	11:10:44 AM	19.274	1093.33	0.12	4
14-Nov-91	08:36:44 PM	18.487	1710.00	0.91	3	16-Nov-91	11:25:44 AM	19.274	1108.33	0.12	4
14-Nov-91	08:51:44 PM	18.487	1725.00	0.91	3	16-Nov-91	11:40:44 AM	19.296	1123.33	0.10	4
14-Nov-91	09:06:44 PM	18.487	1740.00	0.91	3	16-Nov-91	11:55:44 AM	19.303	1138.33	0.09	4
14-Nov-91	09:21:44 PM	18.48	1755.00	0.92	3	16-Nov-91	12:10:44 PM	19.31	1153.33	0.09	4
14-Nov-91	09:36:44 PM	18.48	1770.00	0.92	3	16-Nov-91	12:25:44 PM	19.31	1168.33	0.09	4
14-Nov-91	09:51:44 PM	18.473	1785.00	0.92	3	16-Nov-91	12:40:44 PM	19.317	1183.33	0.08	4
14-Nov-91	10:06:44 PM	18.473	1800.00	0.92	3	16-Nov-91	12:55:44 PM	19.317	1198.33	0.08	4
14-Nov-91	10:21:44 PM	18.473	1815.00	0.92	3	16-Nov-91	01:10:44 PM	19.303	1213.33	0.09	4
14-Nov-91	10:36:44 PM	18.473	1830.00	0.92	3	16-Nov-91	01:25:44 PM	19.303	1228.33	0.09	4
14-Nov-91	10:51:44 PM	18.466	1845.00	0.93	3	16-Nov-91	01:40:44 PM	19.303	1243.33	0.09	4
14-Nov-91	11:06:44 PM	18.466	1860.00	0.93	3	16-Nov-91	01:55:44 PM	19.31	1258.33	0.09	4
14-Nov-91	11:36:44 PM	18.466	1890.00	0.93	3	16-Nov-91	02:10:44 PM	19.317	1273.33	0.08	4
15-Nov-91	12:06:44 AM	18.466	1920.00	0.93	2	16-Nov-91	02:25:44 PM	19.317	1288.33	0.08	4
15-Nov-91	12:36:44 AM	18.466	1950.00	0.93	2	16-Nov-91	02:40:44 PM	19.303	1303.33	0.09	4
15-Nov-91	01:06:44 AM	18.458	1980.00	0.94	2	16-Nov-91	02:55:44 PM	19.303	1318.33	0.09	4
15-Nov-91	01:36:44 AM	18.451	2010.00	0.95	2	16-Nov-91	03:10:44 PM	19.31	1333.33	0.09	4
15-Nov-91	02:06:44 AM	18.451	2040.00	0.95	2	16-Nov-91	03:25:44 PM	19.317	1348.33	0.08	4
15-Nov-91	02:36:44 AM	18.444	2070.00	0.95	2	16-Nov-91	03:40:44 PM	19.31	1363.33	0.09	3
15-Nov-91	03:06:44 AM	18.451	2100.00	0.95	2	16-Nov-91	03:55:44 PM	19.31	1378.33	0.09	3
15-Nov-91	03:36:44 AM	18.451	2130.00	0.95	2	16-Nov-91	04:10:44 PM	19.31	1393.33	0.09	3
15-Nov-91	04:06:44 AM	18.437	2160.00	0.96	2	16-Nov-91	04:25:44 PM	19.31	1408.33	0.09	3
15-Nov-91	04:36:44 AM	18.429	2190.00	0.97	2	16-Nov-91	04:40:44 PM	19.31	1423.33	0.09	3
15-Nov-91	05:06:44 AM	18.429	2220.00	0.97	2	16-Nov-91	04:55:44 PM	19.31	1438.33	0.09	3
15-Nov-91	05:36:44 AM	18.429	2250.00	0.97	2	16-Nov-91	05:10:44 PM	19.317	1453.33	0.08	3
15-Nov-91	06:06:44 AM	18.422	2280.00	0.97	2	16-Nov-91	05:25:44 PM	19.332	1468.33	0.06	3
15-Nov-91	06:36:44 AM	18.422	2310.00	0.97	2	16-Nov-91	05:40:44 PM	19.325	1483.33	0.07	3
15-Nov-91	07:06:44 AM	18.429	2340.00	0.97	2	16-Nov-91	05:55:44 PM	19.325	1498.33	0.07	3
15-Nov-91	07:36:44 AM	18.429	2370.00	0.97	2	16-Nov-91	06:10:44 PM	19.31	1513.33	0.09	3
15-Nov-91	08:06:44 AM	18.415	2400.00	0.98	2	16-Nov-91	06:25:44 PM	19.31	1528.33	0.09	3
15-Nov-91	08:36:44 AM	18.429	2430.00	0.97	2	16-Nov-91	06:40:44 PM	19.31	1543.33	0.09	3
15-Nov-91	09:06:44 AM	18.422	2460.00	0.97	2	16-Nov-91	06:55:44 PM	19.31	1558.33	0.09	3
15-Nov-91	09:36:44 AM	18.422	2490.00	0.97	2	16-Nov-91	07:10:44 PM	19.339	1573.33	0.06	3
15-Nov-91	10:06:44 AM	18.429	2520.00	0.97	2	16-Nov-91	07:25:44 PM	19.325	1588.33	0.07	3
15-Nov-91	10:36:44 AM	18.422	2550.00	0.97	2	16-Nov-91	07:40:44 PM	19.346	1603.33	0.05	3
15-Nov-91	11:06:44 AM	18.429	2580.00	0.97	2	16-Nov-91	07:55:44 PM	19.325	1618.33	0.07	3
15-Nov-91	11:36:44 AM	18.415	2610.00	0.98	2	16-Nov-91	08:10:44 PM	19.332	1633.33	0.06	3
15-Nov-91	12:06:44 PM	18.415	2640.00	0.98	2	16-Nov-91	08:25:44 PM	19.346	1648.33	0.05	3
15-Nov-91	12:36:44 PM	18.415	2670.00	0.98	2	16-Nov-91	08:40:44 PM	19.332	1663.33	0.06	3

UPRR SACRAMENTO
MW-14 DATALOGGER DATA
November, 1991

PUMPING						RECOVERY					
Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
15-Nov-91	01:06:44 PM	18.422	2700.00	0.97	2	16-Nov-91	08:55:44 PM	19.339	1678.33	0.06	3
15-Nov-91	01:36:44 PM	18.415	2730.00	0.98	2	16-Nov-91	09:10:44 PM	19.332	1693.33	0.06	3
15-Nov-91	02:06:44 PM	18.408	2760.00	0.99	2	16-Nov-91	09:25:44 PM	19.346	1708.33	0.05	3
15-Nov-91	02:36:44 PM	18.408	2790.00	0.99	2	16-Nov-91	09:40:44 PM	19.346	1723.33	0.05	3
15-Nov-91	03:06:44 PM	18.393	2820.00	1.00	2	16-Nov-91	09:55:44 PM	19.353	1738.33	0.04	3
15-Nov-91	03:36:44 PM	18.401	2850.00	1.00	2	16-Nov-91	10:10:44 PM	19.346	1753.33	0.05	3
15-Nov-91	04:06:44 PM	18.401	2880.00	1.00	2	16-Nov-91	10:25:44 PM	19.346	1768.33	0.05	3
15-Nov-91	04:45:18 PM	18.386	2918.56	1.01	2	16-Nov-91	10:40:44 PM	19.346	1783.33	0.05	3
15-Nov-91	04:45:24 PM	18.386	2918.65	1.01	2	16-Nov-91	10:55:44 PM	19.353	1798.33	0.04	3
15-Nov-91	04:45:28 PM	18.393	2918.73	1.00	2	16-Nov-91	11:10:44 PM	19.353	1813.33	0.04	3
15-Nov-91	04:45:34 PM	18.386	2918.82	1.01	2	16-Nov-91	11:25:44 PM	19.361	1828.33	0.04	3
15-Nov-91	04:45:38 PM	18.386	2918.90	1.01	2	16-Nov-91	11:40:44 PM	19.361	1843.33	0.04	3
15-Nov-91	04:45:44 PM	18.386	2918.99	1.01	2	16-Nov-91	11:55:45 PM	19.368	1858.33	0.03	3
15-Nov-91	04:45:48 PM	18.386	2919.07	1.01	2	17-Nov-91	12:25:44 AM	19.368	1888.33	0.03	3
15-Nov-91	04:45:53 PM	18.386	2919.15	1.01	2	17-Nov-91	12:55:44 AM	19.368	1918.33	0.03	2
15-Nov-91	04:45:59 PM	18.386	2919.24	1.01	2	17-Nov-91	01:25:44 AM	19.361	1948.33	0.04	2
15-Nov-91	04:46:03 PM	18.386	2919.32	1.01	2	17-Nov-91	01:55:44 AM	19.361	1978.33	0.04	2
15-Nov-91	04:46:09 PM	18.386	2919.41	1.01	2	17-Nov-91	02:25:44 AM	19.368	2008.33	0.03	2
15-Nov-91	04:46:13 PM	18.386	2919.48	1.01	2	17-Nov-91	02:55:44 AM	19.368	2038.33	0.03	2
15-Nov-91	04:46:19 PM	18.386	2919.57	1.01	2	17-Nov-91	03:25:44 AM	19.368	2068.33	0.03	2
15-Nov-91	04:46:23 PM	18.386	2919.65	1.01	2	17-Nov-91	03:55:44 AM	19.361	2098.33	0.04	2
15-Nov-91	04:46:28 PM	18.429	2919.73	0.97	2	17-Nov-91	04:25:44 AM	19.361	2128.33	0.04	2
15-Nov-91	04:46:34 PM	18.408	2919.82	0.99	2	17-Nov-91	04:55:44 AM	19.368	2158.33	0.03	2
15-Nov-91	04:46:38 PM	18.401	2919.90	1.00	2	17-Nov-91	05:25:44 AM	19.361	2188.33	0.04	2
15-Nov-91	04:46:44 PM	18.393	2919.99	1.00	2	17-Nov-91	05:55:44 AM	19.353	2218.33	0.04	2
15-Nov-91	04:46:48 PM	18.401	2920.07	1.00	2	17-Nov-91	06:25:44 AM	19.368	2248.33	0.03	2
15-Nov-91	04:46:54 PM	18.415	2920.16	0.98	2	17-Nov-91	06:55:44 AM	19.368	2278.33	0.03	2
15-Nov-91	04:46:58 PM	18.393	2920.23	1.00	2	17-Nov-91	07:25:44 AM	19.375	2308.33	0.02	2
15-Nov-91	04:47:03 PM	18.357	2920.32	1.04	2	17-Nov-91	07:55:44 AM	19.368	2338.33	0.03	2
15-Nov-91	04:47:09 PM	18.372	2920.40	1.02	2	17-Nov-91	08:25:44 AM	19.368	2368.33	0.03	2
15-Nov-91	04:47:13 PM	18.372	2920.48	1.02	2	17-Nov-91	08:55:44 AM	19.368	2398.33	0.03	2
15-Nov-91	04:47:19 PM	18.379	2920.57	1.02	2	17-Nov-91	09:25:44 AM	19.368	2428.33	0.03	2
15-Nov-91	04:47:23 PM	18.386	2920.65	1.01	2	17-Nov-91	09:55:44 AM	19.361	2458.33	0.04	2
15-Nov-91	04:47:29 PM	18.386	2920.74	1.01	2	17-Nov-91	10:25:44 AM	19.375	2488.33	0.02	2
15-Nov-91	04:47:33 PM	18.386	2920.82	1.01	2	17-Nov-91	10:55:44 AM	19.375	2518.33	0.02	2
15-Nov-91	04:47:38 PM	18.393	2920.90	1.00	2	17-Nov-91	11:25:44 AM	19.382	2548.33	0.01	2
15-Nov-91	04:47:44 PM	18.386	2920.99	1.01	2	17-Nov-91	11:55:44 AM	19.382	2578.33	0.01	2
15-Nov-91	04:47:48 PM	18.386	2921.07	1.01	2	17-Nov-91	12:25:44 PM	19.397	2608.33	0.00	2
15-Nov-91	04:47:54 PM	18.386	2921.16	1.01	2	17-Nov-91	12:55:44 PM	19.382	2638.33	0.01	2
15-Nov-91	04:47:58 PM	18.393	2921.23	1.00	2	17-Nov-91	01:25:44 PM	19.39	2668.33	0.01	2
15-Nov-91	04:48:04 PM	18.393	2921.32	1.00	2	17-Nov-91	01:55:44 PM	19.382	2698.33	0.01	2
15-Nov-91	04:48:08 PM	18.379	2921.40	1.02	2	17-Nov-91	02:25:44 PM	19.375	2728.33	0.02	2
15-Nov-91	04:48:13 PM	18.393	2921.48	1.00	2						
15-Nov-91	04:48:19 PM	18.386	2921.57	1.01	2						
15-Nov-91	04:48:23 PM	18.386	2921.65	1.01	2						
15-Nov-91	04:48:29 PM	18.393	2921.74	1.00	2						

UPRR SACRAMENTO
 MW-14 DATALOGGER DATA
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PUMPING

RECOVERY

PUMPING						RECOVERY					
Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
15-Nov-91	04:48:33 PM	18.386	2921.82	1.01	2						
15-Nov-91	04:48:39 PM	18.386	2921.91	1.01	2						
15-Nov-91	04:48:43 PM	18.386	2921.98	1.01	2						
15-Nov-91	04:48:48 PM	18.386	2922.07	1.01	2						
15-Nov-91	04:48:54 PM	18.386	2922.16	1.01	2						
15-Nov-91	04:48:58 PM	18.386	2922.23	1.01	2						
15-Nov-91	04:49:04 PM	18.386	2922.32	1.01	2						
15-Nov-91	04:49:08 PM	18.386	2922.40	1.01	2						
15-Nov-91	04:49:14 PM	18.386	2922.49	1.01	2						
15-Nov-91	04:49:18 PM	18.386	2922.57	1.01	2						
15-Nov-91	04:49:23 PM	18.393	2922.65	1.00	2						
15-Nov-91	04:49:29 PM	18.386	2922.74	1.01	2						
15-Nov-91	04:49:33 PM	18.386	2922.82	1.01	2						
15-Nov-91	04:49:39 PM	18.386	2922.90	1.01	2						
15-Nov-91	04:49:43 PM	18.386	2922.98	1.01	2						
15-Nov-91	04:49:49 PM	18.386	2923.07	1.01	2						
15-Nov-91	04:49:53 PM	18.386	2923.15	1.01	2						
15-Nov-91	04:49:58 PM	18.386	2923.23	1.01	2						
15-Nov-91	04:50:04 PM	18.386	2923.32	1.01	2						
15-Nov-91	04:50:08 PM	18.386	2923.40	1.01	2						
15-Nov-91	04:50:14 PM	18.386	2923.49	1.01	2						
15-Nov-91	04:50:18 PM	18.386	2923.57	1.01	2						
15-Nov-91	04:50:24 PM	18.386	2923.66	1.01	2						
15-Nov-91	04:50:28 PM	18.386	2923.73	1.01	2						
15-Nov-91	04:50:33 PM	18.386	2923.82	1.01	2						
15-Nov-91	04:50:39 PM	18.386	2923.91	1.01	2						
15-Nov-91	04:50:43 PM	18.386	2923.98	1.01	2						
15-Nov-91	04:50:49 PM	18.386	2924.07	1.01	2						
15-Nov-91	04:50:53 PM	18.386	2924.15	1.01	2						
15-Nov-91	04:50:59 PM	18.386	2924.24	1.01	2						
15-Nov-91	04:51:03 PM	18.386	2924.32	1.01	2						
15-Nov-91	04:51:08 PM	18.386	2924.40	1.01	2						
15-Nov-91	04:51:14 PM	18.386	2924.49	1.01	2						
15-Nov-91	04:51:18 PM	18.386	2924.57	1.01	2						
15-Nov-91	04:51:24 PM	18.386	2924.66	1.01	2						
15-Nov-91	04:51:28 PM	18.386	2924.73	1.01	2						
15-Nov-91	04:51:34 PM	18.386	2924.82	1.01	2						
15-Nov-91	04:51:38 PM	18.393	2924.90	1.00	2						
15-Nov-91	04:51:43 PM	18.393	2924.98	1.00	2						
15-Nov-91	04:51:49 PM	18.386	2925.07	1.01	2						
15-Nov-91	04:51:53 PM	18.393	2925.15	1.00	2						
15-Nov-91	04:51:59 PM	18.386	2925.24	1.01	2						
15-Nov-91	04:52:03 PM	18.393	2925.32	1.00	2						
15-Nov-91	04:52:09 PM	18.393	2925.40	1.00	2						
15-Nov-91	04:52:13 PM	18.401	2925.48	1.00	2						
15-Nov-91	04:52:18 PM	18.393	2925.57	1.00	2						

UPRR SACRAMENTO
 MW-14 DATALOGGER DATA
 November, 1991

PUMPING

RECOVERY

Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
15-Nov-91	04:52:24 PM	18.386	2925.66	1.01	2						
15-Nov-91	04:52:28 PM	18.386	2925.73	1.01	2						
15-Nov-91	04:52:34 PM	18.386	2925.82	1.01	2						
15-Nov-91	04:52:38 PM	18.393	2925.90	1.00	2						
15-Nov-91	04:52:44 PM	18.386	2925.99	1.01	2						
15-Nov-91	04:52:48 PM	18.386	2926.07	1.01	2						
15-Nov-91	04:52:53 PM	18.393	2926.15	1.00	2						
15-Nov-91	04:52:59 PM	18.386	2926.24	1.01	2						
15-Nov-91	04:53:03 PM	18.386	2926.32	1.01	2						
15-Nov-91	04:53:09 PM	18.386	2926.41	1.01	2						
15-Nov-91	04:53:13 PM	18.386	2926.48	1.01	2						
15-Nov-91	04:53:19 PM	18.386	2926.57	1.01	2						
15-Nov-91	04:53:23 PM	18.386	2926.65	1.01	2						
15-Nov-91	04:53:28 PM	18.386	2926.73	1.01	2						
15-Nov-91	04:53:34 PM	18.386	2926.82	1.01	2						
15-Nov-91	04:53:38 PM	18.386	2926.90	1.01	2						
15-Nov-91	04:53:44 PM	18.386	2926.99	1.01	2						
15-Nov-91	04:53:48 PM	18.386	2927.06	1.01	2						
15-Nov-91	04:53:54 PM	18.386	2927.15	1.01	2						
15-Nov-91	04:53:58 PM	18.386	2927.23	1.01	2						
15-Nov-91	04:54:03 PM	18.386	2927.32	1.01	2						
15-Nov-91	04:54:09 PM	18.386	2927.40	1.01	2						
15-Nov-91	04:54:13 PM	18.386	2927.48	1.01	2						
15-Nov-91	04:54:19 PM	18.393	2927.57	1.00	2						
15-Nov-91	04:54:23 PM	18.386	2927.65	1.01	2						
15-Nov-91	04:54:29 PM	18.386	2927.74	1.01	2						
15-Nov-91	04:54:33 PM	18.386	2927.82	1.01	2						
15-Nov-91	04:54:38 PM	18.386	2927.90	1.01	2						
15-Nov-91	04:54:44 PM	18.393	2927.99	1.00	2						
15-Nov-91	04:54:48 PM	18.386	2928.07	1.01	2						
15-Nov-91	04:54:54 PM	18.393	2928.16	1.00	2						
15-Nov-91	04:55:44 PM	18.386	2929.00	1.01	2						
15-Nov-91	04:55:50 PM	18.386	2929.09	1.01	2						
15-Nov-91	04:55:54 PM	18.393	2929.17	1.00	2						
15-Nov-91	04:55:59 PM	18.386	2929.25	1.01	2						
15-Nov-91	04:56:05 PM	18.386	2929.34	1.01	2						
15-Nov-91	04:56:09 PM	18.386	2929.42	1.01	2						
15-Nov-91	04:56:15 PM	18.386	2929.51	1.01	2						
15-Nov-91	04:56:19 PM	18.393	2929.58	1.00	2						
15-Nov-91	04:56:25 PM	18.386	2929.67	1.01	2						
15-Nov-91	04:56:29 PM	18.386	2929.75	1.01	2						
15-Nov-91	04:56:34 PM	18.386	2929.83	1.01	2						
15-Nov-91	04:56:40 PM	18.393	2929.92	1.00	2						
15-Nov-91	04:56:44 PM	18.386	2930.00	1.01	2						
15-Nov-91	04:56:50 PM	18.386	2930.09	1.01	2						
15-Nov-91	04:56:54 PM	18.386	2930.17	1.01	2						

UPRR SACRAMENTO
MW-14 DATALOGGER DATA
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PUMPING

RECOVERY

Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
15-Nov-91	04:57:00 PM	18.386	2930.26	1.01	2						
15-Nov-91	04:57:04 PM	18.386	2930.33	1.01	2						
15-Nov-91	04:57:09 PM	18.386	2930.42	1.01	2						
15-Nov-91	04:57:15 PM	18.386	2930.51	1.01	2						
15-Nov-91	04:57:19 PM	18.386	2930.58	1.01	2						

UPRR SACRAMENTO
MW-15 DATALOGGER DATA
November, 1991

PUMPING

RECOVERY

Head	Elapsed	Drawdown	r ² /t	Head	Total	Recovery	Drawdown	r ² /t
	Time				Elapsed	Elapsed		
(min.)	(min.)	(feet)	(ft ² /min)	(min.)	(min.)	(min.)	(feet)	(ft ² /min)

UPRR SACRAMENTO
MW-15 DATALOGGER DATA
November, 1991

PUMPING

RECOVERY

Head	Elapsed	Drawdown	r ² /t	Head	Total	Recovery	Drawdown	r ² /t
	Time				Elapsed	Elapsed		
(min.)	(min.)	(feet)	(ft ² /min)	(min.)	(min.)	(min.)	(feet)	(ft ² /min)

7.87	0.00	0.00	ERR	7.57	2930.72	0.00	0.30	--
7.87	0.17	0.00	ERR	7.57	2930.90	0.18	0.30	221428
7.87	0.33	0.00	ERR	7.57	2931.07	0.35	0.30	115481
7.87	0.50	0.00	ERR	7.57	2931.23	0.51	0.30	78109
7.87	0.67	0.00	ERR	7.57	2931.40	0.68	0.30	59011
7.87	0.83	0.00	ERR	7.57	2931.57	0.85	0.30	47418
7.87	1.00	0.00	ERR	7.57	2931.73	1.01	0.30	39632
7.87	1.17	0.00	ERR	7.57	2931.90	1.18	0.30	34042
7.87	1.33	0.00	ERR	7.57	2932.07	1.35	0.30	29834
7.87	1.50	0.00	ERR	7.57	2932.23	1.51	0.30	26552
7.87	1.67	0.00	ERR	7.57	2932.40	1.68	0.30	23920
7.87	1.83	0.00	ERR	7.57	2932.57	1.85	0.30	21763
7.87	2.00	0.00	ERR	7.57	2932.73	2.01	0.30	19963
7.87	2.17	0.00	ERR	7.593	2932.90	2.18	0.28	18438
7.87	2.33	0.00	ERR	7.57	2933.07	2.35	0.30	17130
7.87	2.50	0.00	ERR	7.57	2933.23	2.51	0.30	15994
7.87	2.67	0.00	ERR	7.57	2933.40	2.68	0.30	15000
7.87	2.83	0.00	ERR	7.57	2933.57	2.85	0.30	14123
7.87	3.00	0.00	ERR	7.57	2933.73	3.01	0.30	13342
7.87	3.17	0.00	ERR	7.57	2933.90	3.18	0.30	12643
7.87	3.33	0.00	ERR	7.57	2934.07	3.35	0.30	12014
7.87	3.50	0.00	ERR	7.57	2934.23	3.51	0.30	11444
7.87	3.67	0.00	ERR	7.57	2934.40	3.68	0.30	10926
7.87	3.83	0.00	ERR	7.593	2934.57	3.85	0.28	10453
7.87	4.00	0.00	ERR	7.593	2934.73	4.01	0.28	10019
7.847	4.17	0.02	1748957	7.593	2934.90	4.18	0.28	9620
7.87	4.33	0.00	ERR	7.593	2935.07	4.35	0.28	9251
7.87	4.50	0.00	ERR	7.593	2935.23	4.51	0.28	8909
7.847	4.67	0.02	1748957	7.593	2935.40	4.68	0.28	8592
7.87	4.83	0.00	ERR	7.593	2935.57	4.85	0.28	8297
7.847	5.00	0.02	1748957	7.593	2935.73	5.01	0.28	8021
7.847	5.17	0.02	1748957	7.593	2935.90	5.18	0.28	7763
7.847	5.33	0.02	1748957	7.593	2936.07	5.35	0.28	7521
7.847	5.50	0.02	1748957	7.593	2936.23	5.51	0.28	7294

UPRR SACRAMENTO
 MW-15 DATALOGGER DATA
 November, 1991

PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
7.847	5.67	0.02	1748957	7.593	2936.40	5.68	0.28	7080
7.847	5.83	0.02	1748957	7.593	2936.57	5.85	0.28	6878
7.847	6.00	0.02	1748957	7.593	2936.73	6.01	0.28	6688
7.847	6.17	0.02	1748957	7.593	2936.90	6.18	0.28	6507
7.847	6.33	0.02	1748957	7.593	2937.07	6.35	0.28	6336
7.847	6.50	0.02	1748957	7.593	2937.23	6.51	0.28	6174
7.847	6.67	0.02	1748957	7.593	2937.40	6.68	0.28	6020
7.847	6.83	0.02	1748957	7.593	2937.57	6.85	0.28	5874
7.847	7.00	0.02	1748957	7.593	2937.73	7.01	0.28	5734
7.847	7.17	0.02	1748957	7.593	2937.90	7.18	0.28	5601
7.847	7.33	0.02	1748957	7.593	2938.07	7.35	0.28	5474
7.847	7.50	0.02	1748957	7.593	2938.23	7.51	0.28	5353
7.847	7.67	0.02	1748957	7.593	2938.40	7.68	0.28	5237
7.847	7.83	0.02	1748957	7.593	2938.57	7.85	0.28	5125
7.847	8.00	0.02	1748957	7.593	2938.73	8.01	0.28	5019
7.847	8.17	0.02	1748957	7.616	2938.90	8.18	0.25	4917
7.847	8.33	0.02	1748957	7.593	2939.07	8.35	0.28	4818
7.847	8.50	0.02	1748957	7.616	2939.23	8.51	0.25	4724
7.847	8.67	0.02	1748957	7.616	2939.40	8.68	0.25	4633
7.847	8.83	0.02	1748957	7.616	2939.57	8.85	0.25	4546
7.847	9.00	0.02	1748957	7.616	2939.73	9.01	0.25	4462
7.847	9.17	0.02	1748957	7.616	2939.90	9.18	0.25	4381
7.847	9.33	0.02	1748957	7.616	2940.07	9.35	0.25	4303
7.847	9.50	0.02	1748957	7.616	2940.23	9.51	0.25	4228
7.847	9.67	0.02	1748957	7.616	2940.40	9.68	0.25	4155
7.847	9.83	0.02	1748957	7.616	2940.57	9.85	0.25	4085
7.847	10.00	0.02	1748957	7.616	2940.73	10.01	0.25	4017
7.847	10.50	0.02	1748957	7.616	2941.23	10.51	0.25	3826
7.847	11.00	0.02	1748957	7.616	2941.73	11.01	0.25	3652
7.847	11.50	0.02	1748957	7.616	2942.23	11.51	0.25	3493
7.847	12.00	0.02	1748957	7.616	2942.73	12.01	0.25	3348
7.847	12.50	0.02	1748957	7.639	2943.23	12.51	0.23	3214
7.824	13.00	0.05	874478	7.616	2943.73	13.01	0.25	3091
7.824	13.50	0.05	874478	7.616	2944.23	13.51	0.25	2976
7.847	14.00	0.02	1748957	7.616	2944.73	14.01	0.25	2870
7.824	14.50	0.05	874478	7.639	2945.23	14.51	0.23	2771
7.824	15.00	0.05	874478	7.639	2945.73	15.01	0.23	2679
7.824	15.50	0.05	874478	7.639	2946.23	15.51	0.23	2593
7.824	16.00	0.05	874478	7.639	2946.73	16.01	0.23	2512
7.824	16.50	0.05	874478	7.639	2947.23	16.51	0.23	2436
7.824	17.00	0.05	874478	7.639	2947.73	17.01	0.23	2364
7.824	17.50	0.05	874478	7.639	2948.23	17.51	0.23	2297
7.824	18.00	0.05	874478	7.639	2948.73	18.01	0.23	2233
7.824	18.50	0.05	874478	7.639	2949.23	18.51	0.23	2173
7.824	19.00	0.05	874478	7.639	2949.73	19.01	0.23	2115

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PUMPING

RECOVERY

Head	PUMPING			RECOVERY				
	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
7.824	19.50	0.05	8744.78	7.639	2950.23	19.51	0.23	2061
7.824	20.00	0.05	8744.78	7.639	2950.73	20.01	0.23	2010
7.824	20.50	0.05	8744.78	7.639	2951.23	20.51	0.23	1961
7.824	21.00	0.05	8744.78	7.663	2951.73	21.01	0.21	1914
7.824	21.50	0.05	8744.78	7.663	2952.23	21.51	0.21	1870
7.824	22.00	0.05	8744.78	7.639	2952.73	22.01	0.23	1827
7.824	22.50	0.05	8744.78	7.663	2953.23	22.51	0.21	1787
7.824	23.00	0.05	8744.78	7.663	2953.73	23.01	0.21	1748
7.824	23.50	0.05	8744.78	7.663	2954.23	23.51	0.21	1711
7.824	24.00	0.05	8744.78	7.663	2954.73	24.01	0.21	1675
7.824	24.50	0.05	8744.78	7.663	2955.23	24.51	0.21	1641
7.824	25.00	0.05	8744.78	7.663	2955.73	25.01	0.21	1608
7.824	25.50	0.05	8744.78	7.663	2956.23	25.51	0.21	1577
7.824	26.00	0.05	8744.78	7.663	2956.73	26.01	0.21	1546
7.824	26.50	0.05	8744.78	7.663	2957.23	26.51	0.21	1517
7.824	27.00	0.05	8744.78	7.663	2957.73	27.01	0.21	1489
7.824	27.50	0.05	8744.78	7.663	2958.23	27.51	0.21	1462
7.801	28.00	0.07	582986	7.663	2958.73	28.01	0.21	1436
7.801	28.50	0.07	582986	7.663	2959.23	28.51	0.21	1411
7.801	29.00	0.07	582986	7.663	2959.73	29.01	0.21	1386
7.801	29.50	0.07	582986	7.686	2960.23	29.51	0.18	1363
7.801	30.00	0.07	582986	7.686	2960.73	30.01	0.18	1340
7.801	30.50	0.07	582986	7.686	2961.23	30.51	0.18	1318
7.801	31.00	0.07	582986	7.686	2961.73	31.01	0.18	1297
7.801	31.50	0.07	582986	7.686	2962.23	31.51	0.18	1276
7.801	32.00	0.07	582986	7.686	2962.73	32.01	0.18	1256
7.801	32.50	0.07	582986	7.686	2963.23	32.51	0.18	1237
7.801	33.00	0.07	582986	7.686	2963.73	33.01	0.18	1218
7.801	33.50	0.07	582986	7.686	2964.23	33.51	0.18	1200
7.801	34.00	0.07	582986	7.686	2964.73	34.01	0.18	1183
7.801	34.50	0.07	582986	7.686	2965.23	34.51	0.18	1165
7.801	35.00	0.07	582986	7.686	2965.73	35.01	0.18	1149
7.801	35.50	0.07	582986	7.686	2966.23	35.51	0.18	1133
7.801	36.00	0.07	582986	7.686	2966.73	36.01	0.18	1117
7.801	36.50	0.07	582986	7.686	2967.23	36.51	0.18	1102
7.801	37.00	0.07	582986	7.686	2967.73	37.01	0.18	1087
7.801	37.50	0.07	582986	7.686	2968.23	37.51	0.18	1072
7.801	38.00	0.07	582986	7.686	2968.73	38.01	0.18	1058
7.801	38.50	0.07	582986	7.709	2969.23	38.51	0.16	1044
7.801	39.00	0.07	582986	7.709	2969.73	39.01	0.16	1031
7.801	39.50	0.07	582986	7.709	2970.23	39.51	0.16	1018
7.801	40.00	0.07	582986	7.709	2970.73	40.01	0.16	1005
7.801	40.50	0.07	582986	7.709	2971.23	40.51	0.16	993
7.801	41.00	0.07	582986	7.709	2971.73	41.01	0.16	981
7.801	41.50	0.07	582986	7.709	2972.23	41.51	0.16	969

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PUMPING

RECOVERY

Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
7.801	42.00	0.07	582986	7.709	2972.73	42.01	0.16	957
7.778	42.50	0.09	437239	7.709	2973.23	42.51	0.16	946
7.801	43.00	0.07	582986	7.709	2973.73	43.01	0.16	935
7.778	43.50	0.09	437239	7.709	2974.23	43.51	0.16	924
7.778	44.00	0.09	437239	7.709	2974.73	44.01	0.16	914
7.778	44.50	0.09	437239	7.709	2975.23	44.51	0.16	904
7.778	45.00	0.09	437239	7.709	2975.73	45.01	0.16	894
7.801	45.50	0.07	582986	7.709	2976.23	45.51	0.16	884
7.778	46.00	0.09	437239	7.709	2976.73	46.01	0.16	874
7.778	46.50	0.09	437239	7.709	2977.23	46.51	0.16	865
7.778	47.00	0.09	437239	7.709	2977.73	47.01	0.16	856
7.778	47.50	0.09	437239	7.709	2978.23	47.51	0.16	847
7.778	48.00	0.09	437239	7.709	2978.73	48.01	0.16	838
7.778	48.50	0.09	437239	7.709	2979.23	48.51	0.16	829
7.778	49.00	0.09	437239	7.709	2979.73	49.01	0.16	821
7.778	49.50	0.09	437239	7.732	2980.23	49.51	0.14	812
7.778	50.00	0.09	437239	7.709	2980.73	50.01	0.16	804
7.778	50.50	0.09	437239	7.709	2981.23	50.51	0.16	796
7.778	51.00	0.09	437239	7.732	2981.73	51.01	0.14	789
7.778	51.50	0.09	437239	7.732	2982.23	51.51	0.14	781
7.778	52.00	0.09	437239	7.709	2982.73	52.01	0.16	773
7.778	52.50	0.09	437239	7.709	2983.23	52.51	0.16	766
7.778	53.00	0.09	437239	7.732	2983.73	53.01	0.14	759
7.778	53.50	0.09	437239	7.709	2984.23	53.51	0.16	752
7.778	54.00	0.09	437239	7.732	2984.73	54.01	0.14	745
7.778	54.50	0.09	437239	7.709	2985.23	54.51	0.16	738
7.778	55.00	0.09	437239	7.709	2985.73	55.01	0.16	731
7.778	55.50	0.09	437239	7.732	2986.23	55.51	0.14	725
7.778	56.00	0.09	437239	7.732	2986.73	56.01	0.14	718
7.778	56.50	0.09	437239	7.732	2987.23	56.51	0.14	712
7.778	57.00	0.09	437239	7.732	2987.73	57.01	0.14	706
7.778	57.50	0.09	437239	7.732	2988.23	57.51	0.14	699
7.778	58.00	0.09	437239	7.732	2988.73	58.01	0.14	693
7.778	58.50	0.09	437239	7.732	2989.23	58.51	0.14	687
7.778	59.00	0.09	437239	7.732	2989.73	59.01	0.14	682
7.778	59.50	0.09	437239	7.732	2990.23	59.51	0.14	676
7.778	60.50	0.09	437239	7.732	2991.23	60.51	0.14	665
7.778	61.50	0.09	437239	7.732	2992.23	61.51	0.14	654
7.778	62.50	0.09	437239	7.732	2993.23	62.51	0.14	643
7.778	63.50	0.09	437239	7.732	2994.23	63.51	0.14	633
7.778	64.50	0.09	437239	7.732	2995.23	64.51	0.14	624
7.778	65.50	0.09	437239	7.732	2996.23	65.51	0.14	614
7.778	66.50	0.09	437239	7.732	2997.23	66.51	0.14	605
7.778	67.50	0.09	437239	7.732	2998.23	67.51	0.14	596
7.778	68.50	0.09	437239	7.732	2999.23	68.51	0.14	587

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PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
7.778	69.50	0.09	437239	7.732	3000.23	69.51	0.14	579
7.778	70.50	0.09	437239	7.732	3001.23	70.51	0.14	570
7.778	71.50	0.09	437239	7.732	3002.23	71.51	0.14	562
7.778	72.50	0.09	437239	7.732	3003.23	72.51	0.14	555
7.778	73.50	0.09	437239	7.732	3004.23	73.51	0.14	547
7.778	74.50	0.09	437239	7.732	3005.23	74.51	0.14	540
7.778	75.50	0.09	437239	7.732	3006.23	75.51	0.14	533
7.778	76.50	0.09	437239	7.732	3007.23	76.51	0.14	526
7.778	77.50	0.09	437239	7.732	3008.23	77.51	0.14	519
7.778	78.50	0.09	437239	7.732	3009.23	78.51	0.14	512
7.778	79.50	0.09	437239	7.732	3010.23	79.51	0.14	506
7.778	80.50	0.09	437239	7.732	3011.23	80.51	0.14	500
7.778	81.50	0.09	437239	7.732	3012.23	81.51	0.14	493
7.778	82.50	0.09	437239	7.732	3013.23	82.51	0.14	487
7.778	83.50	0.09	437239	7.732	3014.23	83.51	0.14	482
7.778	84.50	0.09	437239	7.732	3015.23	84.51	0.14	476
7.778	85.50	0.09	437239	7.732	3016.23	85.51	0.14	470
7.778	86.50	0.09	437239	7.732	3017.23	86.51	0.14	465
7.778	87.50	0.09	437239	7.755	3018.23	87.51	0.12	460
7.778	88.50	0.09	437239	7.755	3019.23	88.51	0.12	454
7.778	89.50	0.09	437239	7.732	3020.23	89.51	0.14	449
7.778	90.50	0.09	437239	7.732	3021.23	90.51	0.14	444
7.778	91.50	0.09	437239	7.755	3022.23	91.51	0.12	440
7.778	92.50	0.09	437239	7.755	3023.23	92.51	0.12	435
7.778	93.50	0.09	437239	7.755	3024.23	93.51	0.12	430
7.778	94.50	0.09	437239	7.755	3025.23	94.51	0.12	426
7.778	95.50	0.09	437239	7.755	3026.23	95.51	0.12	421
7.778	96.50	0.09	437239	7.755	3027.23	96.51	0.12	417
7.778	97.50	0.09	437239	7.755	3028.23	97.51	0.12	413
7.778	98.50	0.09	437239	7.755	3029.23	98.51	0.12	408
7.778	99.50	0.09	437239	7.755	3030.23	99.51	0.12	404
7.778	100.50	0.09	437239	7.755	3031.23	100.51	0.12	400
7.778	101.50	0.09	437239	7.755	3032.23	101.51	0.12	396
7.778	102.50	0.09	437239	7.755	3033.23	102.51	0.12	392
7.778	103.50	0.09	437239	7.755	3034.23	103.51	0.12	389
7.778	104.50	0.09	437239	7.755	3035.23	104.51	0.12	385
7.778	105.50	0.09	437239	7.755	3036.23	105.51	0.12	381
7.778	106.50	0.09	437239	7.755	3037.23	106.51	0.12	378
7.778	107.50	0.09	437239	7.755	3038.23	107.51	0.12	374
7.778	108.50	0.09	437239	7.755	3039.23	108.51	0.12	371
7.778	109.50	0.09	437239	7.755	3040.23	109.51	0.12	367
7.778	110.50	0.09	437239	7.755	3041.23	110.51	0.12	364
7.778	111.50	0.09	437239	7.755	3042.23	111.51	0.12	361
7.778	112.50	0.09	437239	7.755	3043.23	112.51	0.12	358
7.778	113.50	0.09	437239	7.755	3044.23	113.51	0.12	354

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PUMPING

RECOVERY

Head	PUMPING			RECOVERY				
	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	
7.778	114.50	0.09	437239	7.755	3045.23	114.51	0.12	351
7.778	115.50	0.09	437239	7.755	3046.23	115.51	0.12	348
7.778	116.50	0.09	437239	7.755	3047.23	116.51	0.12	345
7.778	117.50	0.09	437239	7.778	3048.23	117.51	0.09	342
7.778	118.50	0.09	437239	7.778	3049.23	118.51	0.09	339
7.778	123.50	0.09	437239	7.778	3054.23	123.51	0.09	326
7.778	128.50	0.09	437239	7.778	3059.23	128.51	0.09	313
7.801	133.50	0.07	582986	7.801	3064.23	133.51	0.07	301
7.801	138.50	0.07	582986	7.801	3069.23	138.51	0.07	290
7.801	143.50	0.07	582986	7.801	3074.23	143.51	0.07	280
7.801	148.50	0.07	582986	7.801	3079.23	148.51	0.07	271
7.801	153.50	0.07	582986	7.801	3084.23	153.51	0.07	262
7.801	158.50	0.07	582986	7.824	3089.23	158.51	0.05	254
7.801	163.50	0.07	582986	7.824	3094.23	163.51	0.05	246
7.801	168.50	0.07	582986	7.824	3099.23	168.51	0.05	239
7.801	173.50	0.07	582986	7.824	3104.23	173.51	0.05	232
7.801	178.50	0.07	582986	7.824	3109.23	178.51	0.05	225
7.801	183.50	0.07	582986	7.847	3114.23	183.51	0.02	219
7.801	188.50	0.07	582986	7.824	3119.23	188.51	0.05	213
7.801	193.50	0.07	582986	7.847	3124.23	193.51	0.02	208
7.801	198.50	0.07	582986	7.824	3129.23	198.51	0.05	203
7.801	203.50	0.07	582986	7.847	3134.23	203.51	0.02	198
7.801	208.50	0.07	582986	7.847	3139.23	208.51	0.02	193
7.801	213.50	0.07	582986	7.847	3144.23	213.51	0.02	188
7.801	218.50	0.07	582986	7.847	3149.23	218.51	0.02	184
7.801	223.50	0.07	582986	7.847	3154.23	223.51	0.02	180
7.801	228.50	0.07	582986	7.847	3159.23	228.51	0.02	176
7.801	233.50	0.07	582986	7.847	3164.23	233.51	0.02	172
7.801	238.50	0.07	582986	7.847	3169.23	238.51	0.02	169
7.801	243.50	0.07	582986	7.847	3174.23	243.51	0.02	165
7.801	248.50	0.07	582986	7.87	3179.23	248.51	0.00	162
7.801	253.50	0.07	582986	7.87	3184.23	253.51	0.00	159
7.801	258.50	0.07	582986	7.87	3189.23	258.51	0.00	156
7.801	263.50	0.07	582986	7.87	3194.23	263.51	0.00	153
7.801	268.50	0.07	582986	7.87	3199.23	268.51	0.00	150
7.801	273.50	0.07	582986	7.87	3204.23	273.51	0.00	147
7.801	278.50	0.07	582986	7.87	3209.23	278.51	0.00	144
7.801	283.50	0.07	582986	7.87	3214.23	283.51	0.00	142
7.801	288.50	0.07	582986	7.87	3219.23	288.51	0.00	139
7.801	293.50	0.07	582986	7.87	3224.23	293.51	0.00	137
7.801	298.50	0.07	582986	7.893	3229.23	298.51	-0.02	135
7.824	303.50	0.05	874478	7.893	3234.23	303.51	-0.02	133
7.824	308.50	0.05	874478	7.893	3239.23	308.51	-0.02	130
7.824	313.50	0.05	874478	7.893	3244.23	313.51	-0.02	128
7.824	318.50	0.05	874478	7.893	3249.23	318.51	-0.02	126

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PUMPING RECOVERY

PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
7.824	323.50	0.05	874478	7.893	3254.23	323.51	-0.02	124
7.824	328.50	0.05	874478	7.893	3259.23	328.51	-0.02	122
7.824	333.50	0.05	874478	7.893	3264.23	333.51	-0.02	121
7.824	338.50	0.05	874478	7.87	3269.23	338.51	0.00	119
7.824	343.50	0.05	874478	7.87	3274.23	343.51	0.00	117
7.824	348.50	0.05	874478	7.893	3279.23	348.51	-0.02	115
7.801	353.50	0.07	582986	7.893	3284.23	353.51	-0.02	114
7.824	358.50	0.05	874478	7.87	3289.23	358.51	0.00	112
7.824	363.50	0.05	874478	7.893	3294.23	363.51	-0.02	111
7.824	368.50	0.05	874478	7.893	3299.23	368.51	-0.02	109
7.824	373.50	0.05	874478	7.87	3304.23	373.51	0.00	108
7.824	378.50	0.05	874478	7.87	3309.23	378.51	0.00	106
7.824	383.50	0.05	874478	7.893	3314.23	383.51	-0.02	105
7.824	388.50	0.05	874478	7.893	3319.23	388.51	-0.02	104
7.824	393.50	0.05	874478	7.893	3324.23	393.51	-0.02	102
7.824	398.50	0.05	874478	7.893	3329.23	398.51	-0.02	101
7.824	403.50	0.05	874478	7.893	3334.23	403.51	-0.02	100
7.824	408.50	0.05	874478	7.893	3339.23	408.51	-0.02	98
7.824	413.50	0.05	874478	7.893	3344.23	413.51	-0.02	97
7.824	428.50	0.05	874478	7.893	3359.23	428.51	-0.02	94
7.824	443.50	0.05	874478	7.916	3374.23	443.51	-0.05	91
7.824	458.50	0.05	874478	7.893	3389.23	458.51	-0.02	88
7.824	473.50	0.05	874478	7.893	3404.23	473.51	-0.02	85
7.824	488.50	0.05	874478	7.916	3419.23	488.51	-0.05	82
7.824	503.50	0.05	874478	7.916	3434.23	503.51	-0.05	80
7.824	518.50	0.05	874478	7.916	3449.23	518.51	-0.05	78
7.824	533.50	0.05	874478	7.916	3464.23	533.51	-0.05	75
7.824	548.50	0.05	874478	7.916	3479.23	548.51	-0.05	73
7.824	563.50	0.05	874478	7.916	3494.23	563.51	-0.05	71
7.824	578.50	0.05	874478	7.94	3509.23	578.51	-0.07	70
7.824	593.50	0.05	874478	7.94	3524.23	593.51	-0.07	68
7.824	608.50	0.05	874478	7.94	3539.23	608.51	-0.07	66
7.824	623.50	0.05	874478	7.94	3554.23	623.51	-0.07	65
7.824	638.50	0.05	874478	7.94	3569.23	638.51	-0.07	63
7.824	653.50	0.05	874478	7.94	3584.23	653.51	-0.07	62
7.824	668.50	0.05	874478	7.94	3599.23	668.52	-0.07	60
7.824	683.50	0.05	874478	7.94	3614.23	683.52	-0.07	59
7.824	698.50	0.05	874478	7.94	3629.23	698.52	-0.07	58
7.824	713.50	0.05	874478	7.94	3644.23	713.52	-0.07	56
7.824	728.50	0.05	874478	7.94	3659.23	728.52	-0.07	55
7.824	743.50	0.05	874478	7.963	3674.23	743.52	-0.09	54
7.801	758.50	0.07	582986	7.963	3689.23	758.52	-0.09	53
7.824	773.50	0.05	874478	7.963	3704.23	773.52	-0.09	52
7.824	788.50	0.05	874478	7.94	3719.23	788.52	-0.07	51
7.824	803.50	0.05	874478	7.963	3734.23	803.52	-0.09	50

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PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
7.824	818.50	0.05	874478	7.963	3749.23	818.52	-0.09	49
7.824	833.50	0.05	874478	7.963	3764.23	833.52	-0.09	48
7.824	848.50	0.05	874478	7.963	3779.23	848.52	-0.09	47
7.824	863.50	0.05	874478	7.963	3794.23	863.52	-0.09	47
7.824	878.50	0.05	874478	7.963	3809.23	878.52	-0.09	46
7.801	893.50	0.07	582986	7.963	3824.23	893.52	-0.09	45
7.801	908.50	0.07	582986	7.963	3839.23	908.52	-0.09	44
7.801	923.50	0.07	582986	7.963	3854.23	923.52	-0.09	44
7.801	938.50	0.07	582986	7.963	3869.23	938.52	-0.09	43
7.801	953.50	0.07	582986	7.963	3884.23	953.52	-0.09	42
7.801	968.50	0.07	582986	7.963	3899.23	968.52	-0.09	42
7.778	983.50	0.09	437239	7.963	3914.23	983.52	-0.09	41
7.801	998.50	0.07	582986	7.963	3929.23	998.52	-0.09	40
7.778	1013.50	0.09	437239	7.94	3944.23	1013.52	-0.07	40
7.778	1028.50	0.09	437239	7.94	3959.23	1028.52	-0.07	39
7.778	1043.50	0.09	437239	7.916	3974.23	1043.52	-0.05	39
7.755	1058.50	0.12	349791	7.94	3989.23	1058.52	-0.07	38
7.778	1073.50	0.09	437239	7.94	4004.23	1073.52	-0.07	37
7.755	1088.50	0.12	349791	7.916	4019.23	1088.52	-0.05	37
7.755	1103.50	0.12	349791	7.893	4034.23	1103.52	-0.02	36
7.732	1118.50	0.14	291493	7.916	4049.23	1118.52	-0.05	36
7.709	1139.47	0.16	249851	7.916	4064.23	1133.52	-0.05	35
7.732	1154.47	0.14	291493	7.916	4079.23	1148.52	-0.05	35
7.732	1169.47	0.14	291493	7.916	4094.23	1163.52	-0.05	35
7.709	1184.47	0.16	249851	7.916	4109.23	1178.52	-0.05	34
7.732	1199.47	0.14	291493	7.916	4124.23	1193.52	-0.05	34
7.709	1214.47	0.16	249851	7.916	4139.23	1208.52	-0.05	33
7.709	1229.47	0.16	249851	7.893	4154.23	1223.52	-0.02	33
7.709	1244.47	0.16	249851	7.893	4169.23	1238.52	-0.02	32
7.709	1259.47	0.16	249851	7.893	4184.23	1253.52	-0.02	32
7.686	1274.47	0.18	218620	7.916	4199.23	1268.52	-0.05	32
7.686	1289.47	0.18	218620	7.916	4214.23	1283.52	-0.05	31
7.686	1304.47	0.18	218620	7.893	4229.23	1298.51	-0.02	31
7.686	1319.47	0.18	218620	7.893	4244.23	1313.51	-0.02	31
7.663	1334.47	0.21	194329	7.893	4259.23	1328.51	-0.02	30
7.663	1349.47	0.21	194329	7.916	4274.23	1343.51	-0.05	30
7.663	1364.47	0.21	194329	7.893	4289.23	1358.51	-0.02	30
7.663	1379.47	0.21	194329	7.893	4304.23	1373.51	-0.02	29
7.639	1394.47	0.23	174139	7.893	4319.23	1388.51	-0.02	29
7.663	1409.47	0.21	194329	7.916	4334.23	1403.51	-0.05	29
7.686	1424.47	0.18	218620	7.916	4349.23	1418.51	-0.05	28
7.663	1439.47	0.21	194329	7.893	4364.23	1433.51	-0.02	28
7.686	1454.47	0.18	218620	7.916	4379.23	1448.51	-0.05	28
7.686	1469.47	0.18	218620	7.94	4394.23	1463.51	-0.07	27
7.686	1484.47	0.18	218620	7.94	4409.23	1478.51	-0.07	27

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PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
7.686	1499.47	0.18	218620	7.94	4424.23	1493.51	-0.07	27
7.686	1514.47	0.18	218620	7.916	4439.23	1508.51	-0.05	27
7.686	1529.47	0.18	218620	7.916	4454.23	1523.51	-0.05	26
7.686	1544.47	0.18	218620	7.916	4469.23	1538.51	-0.05	26
7.709	1559.47	0.16	249851	7.916	4484.23	1553.51	-0.05	26
7.709	1574.47	0.16	249851	7.94	4499.23	1568.51	-0.07	26
7.709	1589.47	0.16	249851	7.94	4514.23	1583.51	-0.07	25
7.709	1604.47	0.16	249851	7.94	4529.23	1598.51	-0.07	25
7.709	1619.47	0.16	249851	7.94	4544.23	1613.51	-0.07	25
7.709	1634.47	0.16	249851	7.94	4559.23	1628.51	-0.07	25
7.709	1649.47	0.16	249851	7.963	4574.23	1643.51	-0.09	24
7.709	1664.47	0.16	249851	7.94	4589.23	1658.51	-0.07	24
7.709	1679.47	0.16	249851	7.94	4604.23	1673.51	-0.07	24
7.709	1694.47	0.16	249851	7.94	4619.23	1688.51	-0.07	24
7.709	1709.47	0.16	249851	7.963	4634.23	1703.51	-0.09	24
7.709	1724.47	0.16	249851	7.963	4649.23	1718.51	-0.09	23
7.709	1739.47	0.16	249851	7.963	4664.23	1733.51	-0.09	23
7.709	1754.47	0.16	249851	7.963	4679.23	1748.51	-0.09	23
7.709	1769.47	0.16	249851	7.963	4694.23	1763.51	-0.09	23
7.709	1784.47	0.16	249851	7.963	4709.23	1778.51	-0.09	23
7.732	1799.47	0.14	291493	7.963	4724.23	1793.51	-0.09	22
7.732	1814.47	0.14	291493	7.986	4739.23	1808.51	-0.12	22
7.709	1829.47	0.16	249851	7.986	4754.23	1823.51	-0.12	22
7.709	1844.47	0.16	249851	7.986	4769.23	1838.51	-0.12	22
7.709	1874.47	0.16	249851	7.986	4799.23	1868.51	-0.12	22
7.709	1904.47	0.16	249851	8.009	4829.23	1898.51	-0.14	21
7.732	1934.47	0.14	291493	7.986	4859.23	1928.51	-0.12	21
7.732	1964.47	0.14	291493	7.986	4889.23	1958.51	-0.12	21
7.732	1994.47	0.14	291493	8.009	4919.23	1988.51	-0.14	20
7.709	2024.47	0.16	249851	8.009	4949.23	2018.51	-0.14	20
7.732	2054.47	0.14	291493	7.986	4979.23	2048.51	-0.12	20
7.709	2084.47	0.16	249851	7.986	5009.23	2078.51	-0.12	19
7.732	2114.47	0.14	291493	7.986	5039.23	2108.51	-0.12	19
7.732	2144.47	0.14	291493	7.986	5069.23	2138.51	-0.12	19
7.709	2174.47	0.16	249851	8.009	5099.23	2168.51	-0.14	19
7.709	2204.47	0.16	249851	7.986	5129.23	2198.51	-0.12	18
7.709	2234.47	0.16	249851	8.009	5159.23	2228.51	-0.14	18
7.709	2264.47	0.16	249851	8.009	5189.23	2258.51	-0.14	18
7.709	2294.47	0.16	249851	8.032	5219.23	2288.51	-0.16	18
7.709	2324.47	0.16	249851	8.032	5249.23	2318.51	-0.16	17
7.709	2354.47	0.16	249851	8.032	5279.23	2348.51	-0.16	17
7.709	2384.47	0.16	249851	8.032	5309.23	2378.51	-0.16	17
7.709	2414.47	0.16	249851	8.009	5339.23	2408.51	-0.14	17
7.686	2444.47	0.18	218620	8.009	5369.23	2438.51	-0.14	16
7.686	2474.47	0.18	218620	7.986	5399.23	2468.51	-0.12	16

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PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
7.686	2504.47	0.18	218620	8.032	5429.23	2498.51	-0.16	16
7.663	2534.47	0.21	194329	8.032	5459.23	2528.51	-0.16	16
7.663	2564.47	0.21	194329	8.055	5489.23	2558.51	-0.18	16
7.639	2594.47	0.23	174139	8.032	5519.23	2588.51	-0.16	16
7.639	2624.47	0.23	174139	8.032	5549.23	2618.51	-0.16	15
7.616	2654.47	0.25	158370	8.032	5579.23	2648.51	-0.16	15
7.616	2684.47	0.25	158370	8.032	5609.23	2678.51	-0.16	15
7.616	2714.47	0.25	158370					
7.616	2744.47	0.25	158370					
7.616	2774.47	0.25	158370					
7.593	2804.47	0.28	145220					
7.593	2834.47	0.28	145220					
7.57	2864.47	0.30	134087					
7.57	2894.47	0.30	134087					
7.57	2919.30	0.30	134087					
7.57	2919.48	0.30	134087					
7.57	2919.65	0.30	134087					
7.57	2919.82	0.30	134087					
7.57	2919.98	0.30	134087					
7.57	2920.15	0.30	134087					
7.57	2920.32	0.30	134087					
7.57	2920.48	0.30	134087					
7.57	2920.65	0.30	134087					
7.57	2920.82	0.30	134087					
7.57	2920.98	0.30	134087					
7.57	2921.15	0.30	134087					
7.57	2921.32	0.30	134087					
7.57	2921.48	0.30	134087					
7.57	2921.65	0.30	134087					
7.57	2921.82	0.30	134087					
7.57	2921.98	0.30	134087					
7.57	2922.15	0.30	134087					
7.57	2922.32	0.30	134087					
7.57	2922.48	0.30	134087					
7.57	2922.65	0.30	134087					
7.57	2922.82	0.30	134087					
7.57	2922.98	0.30	134087					
7.57	2923.15	0.30	134087					
7.57	2923.32	0.30	134087					
7.57	2923.48	0.30	134087					
7.57	2923.65	0.30	134087					
7.57	2923.82	0.30	134087					
7.57	2923.98	0.30	134087					
7.57	2924.15	0.30	134087					
7.57	2924.32	0.30	134087					

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PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
7.57	2924.48	0.30	134087					
7.57	2924.65	0.30	134087					
7.57	2924.82	0.30	134087					
7.57	2924.98	0.30	134087					
7.57	2925.15	0.30	134087					
7.57	2925.32	0.30	134087					
7.57	2925.48	0.30	134087					
7.57	2925.65	0.30	134087					
7.57	2925.82	0.30	134087					
7.57	2925.98	0.30	134087					
7.57	2926.15	0.30	134087					
7.57	2926.32	0.30	134087					
7.57	2926.48	0.30	134087					
7.57	2926.65	0.30	134087					
7.57	2926.82	0.30	134087					
7.57	2926.98	0.30	134087					
7.57	2927.15	0.30	134087					
7.57	2927.32	0.30	134087					
7.57	2927.48	0.30	134087					
7.57	2927.65	0.30	134087					
7.57	2927.82	0.30	134087					
7.57	2927.98	0.30	134087					
7.57	2928.15	0.30	134087					
7.57	2928.32	0.30	134087					
7.57	2928.48	0.30	134087					
7.57	2928.65	0.30	134087					
7.57	2928.82	0.30	134087					
7.57	2928.98	0.30	134087					
7.57	2929.15	0.30	134087					
7.57	2929.32	0.30	134087					
7.57	2929.82	0.30	134087					

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PUMPING

RECOVERY

Head	Elapsed	Drawdown	r ² /t (ft ² /min)	Head	Total	Recovery	Drawdown	r ² /t (ft ² /min)
	Time (min.)				Elapsed Time (min.)	Elapsed Time (min.)		

UPRR SACRAMENTO
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November, 1991

PUMPING

RECOVERY

Head	Elapsed	Drawdown	r ² /t (ft ² /min)	Head	Total	Recovery	Drawdown	r ² /t (ft ² /min)
	Time (min.)				Elapsed Time (min.)	Elapsed Time (min.)		

6.278	0.00	0.00	--	5.17	2930.72	0.00	1.11	--
6.278	0.17	0.00	617412	5.181	2930.90	0.18	1.10	566433
6.278	0.33	0.00	308706	5.181	2931.07	0.35	1.10	295412
6.278	0.50	0.00	205804	5.181	2931.23	0.51	1.10	199810
6.278	0.67	0.00	154353	5.181	2931.40	0.68	1.10	150956
6.278	0.83	0.00	123482	5.181	2931.57	0.85	1.10	121299
6.266	1.00	0.01	102902	5.17	2931.73	1.01	1.11	101381
6.266	1.17	0.01	88202	5.17	2931.90	1.18	1.11	87082
6.278	1.33	0.00	77177	5.17	2932.07	1.35	1.11	76318
6.278	1.50	0.00	68601	5.181	2932.23	1.51	1.10	67922
6.278	1.67	0.00	61741	5.181	2932.40	1.68	1.10	61190
6.266	1.83	0.01	56128	5.17	2932.57	1.85	1.11	55673
6.266	2.00	0.01	51451	5.181	2932.73	2.01	1.10	51068
6.266	2.17	0.01	47493	5.17	2932.90	2.18	1.11	47167
6.266	2.33	0.01	44101	5.17	2933.07	2.35	1.11	43819
6.266	2.50	0.01	41161	5.17	2933.23	2.51	1.11	40915
6.266	2.67	0.01	38588	5.17	2933.40	2.68	1.11	38372
6.266	2.83	0.01	36318	5.17	2933.57	2.85	1.11	36127
6.266	3.00	0.01	34301	5.17	2933.73	3.01	1.11	34130
6.266	3.17	0.01	32495	5.17	2933.90	3.18	1.11	32342
6.266	3.33	0.01	30871	5.17	2934.07	3.35	1.11	30732
6.266	3.50	0.01	29401	5.17	2934.23	3.51	1.11	29275
6.266	3.67	0.01	28064	5.17	2934.40	3.68	1.11	27950
6.266	3.83	0.01	26844	5.181	2934.57	3.85	1.10	26739
6.266	4.00	0.01	25726	5.181	2934.73	4.01	1.10	25629
6.266	4.17	0.01	24696	5.181	2934.90	4.18	1.10	24608
6.266	4.33	0.01	23747	5.181	2935.07	4.35	1.10	23665
6.255	4.50	0.02	22867	5.17	2935.23	4.51	1.11	22791
6.266	4.67	0.01	22050	5.181	2935.40	4.68	1.10	21980
6.255	4.83	0.02	21290	5.17	2935.57	4.85	1.11	21224
6.255	5.00	0.02	20580	5.181	2935.73	5.01	1.10	20519
6.255	5.17	0.02	19917	5.17	2935.90	5.18	1.11	19859
6.266	5.33	0.01	19294	5.17	2936.07	5.35	1.11	19240
6.255	5.50	0.02	18709	5.17	2936.23	5.51	1.11	18659

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6.266	5.67	0.01	18159	5.181	2936.40	5.68	1.10	18111
6.255	5.83	0.02	17640	5.181	2936.57	5.85	1.10	17595
6.255	6.00	0.02	17150	5.17	2936.73	6.01	1.11	17108
6.255	6.17	0.02	16687	5.181	2936.90	6.18	1.10	16646
6.266	6.33	0.01	16248	5.181	2937.07	6.35	1.10	16209
6.255	6.50	0.02	15831	5.181	2937.23	6.51	1.10	15795
6.266	6.67	0.01	15435	5.17	2937.40	6.68	1.11	15401
6.255	6.83	0.02	15059	5.181	2937.57	6.85	1.10	15026
6.255	7.00	0.02	14700	5.181	2937.73	7.01	1.10	14669
6.266	7.17	0.01	14358	5.181	2937.90	7.18	1.10	14328
6.266	7.33	0.01	14032	5.181	2938.07	7.35	1.10	14003
6.255	7.50	0.02	13720	5.17	2938.23	7.51	1.11	13693
6.266	7.67	0.01	13422	5.181	2938.40	7.68	1.10	13396
6.255	7.83	0.02	13136	5.181	2938.57	7.85	1.10	13111
6.255	8.00	0.02	12863	5.181	2938.73	8.01	1.10	12839
6.266	8.17	0.01	12600	5.17	2938.90	8.18	1.11	12577
6.255	8.33	0.02	12348	5.17	2939.07	8.35	1.11	12326
6.255	8.50	0.02	12106	5.181	2939.23	8.51	1.10	12085
6.266	8.67	0.01	11873	5.181	2939.40	8.68	1.10	11853
6.255	8.83	0.02	11649	5.17	2939.57	8.85	1.11	11630
6.255	9.00	0.02	11434	5.181	2939.73	9.01	1.10	11415
6.266	9.17	0.01	11226	5.181	2939.90	9.18	1.10	11207
6.255	9.33	0.02	11025	5.181	2940.07	9.35	1.10	11008
6.255	9.50	0.02	10832	5.181	2940.23	9.51	1.10	10815
6.255	9.67	0.02	10645	5.181	2940.40	9.68	1.10	10629
6.255	9.83	0.02	10465	5.181	2940.57	9.85	1.10	10449
6.255	10.00	0.02	10290	5.181	2940.73	10.07	1.10	10275
6.255	10.50	0.02	9800	5.181	2941.23	10.51	1.10	9786
6.255	11.00	0.02	9355	5.181	2941.73	11.01	1.10	9342
6.255	11.50	0.02	8948	5.181	2942.23	11.51	1.10	8936
6.255	12.00	0.02	8575	5.181	2942.73	12.01	1.10	8564
6.255	12.50	0.02	8232	5.181	2943.23	12.51	1.10	8222
6.255	13.00	0.02	7916	5.181	2943.73	13.01	1.10	7906
6.266	13.50	0.01	7622	5.181	2944.23	13.51	1.10	7614
6.255	14.00	0.02	7350	5.193	2944.73	14.01	1.09	7342
6.255	14.50	0.02	7097	5.193	2945.23	14.51	1.09	7089
6.255	15.00	0.02	6860	5.193	2945.73	15.01	1.09	6853
6.255	15.50	0.02	6639	5.181	2946.23	15.51	1.10	6632
6.255	16.00	0.02	6431	5.181	2946.73	16.01	1.10	6425
6.255	16.50	0.02	6236	5.181	2947.23	16.51	1.10	6231
6.255	17.00	0.02	6053	5.181	2947.73	17.01	1.10	6048
6.255	17.50	0.02	5880	5.181	2948.23	17.51	1.10	5875
6.255	18.00	0.02	5717	5.181	2948.73	18.01	1.10	5712
6.255	18.50	0.02	5562	5.181	2949.23	18.51	1.10	5558
6.255	19.00	0.02	5416	5.181	2949.73	19.01	1.10	5412

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6.255	19.50	0.02	5277	5.181	2950.23	19.51	1.10	5273
6.255	20.00	0.02	5145	5.181	2950.73	20.01	1.10	5141
6.255	20.50	0.02	5020	5.193	2951.23	20.51	1.09	5016
6.255	21.00	0.02	4900	5.181	2951.73	21.01	1.10	4897
6.255	21.50	0.02	4786	5.181	2952.23	21.51	1.10	4783
6.243	22.00	0.03	4677	5.181	2952.73	22.01	1.10	4674
6.255	22.50	0.02	4573	5.193	2953.23	22.51	1.09	4570
6.255	23.00	0.02	4474	5.181	2953.73	23.01	1.10	4471
6.255	23.50	0.02	4379	5.181	2954.23	23.51	1.10	4376
6.243	24.00	0.03	4288	5.181	2954.73	24.01	1.10	4285
6.255	24.50	0.02	4200	5.181	2955.23	24.51	1.10	4198
6.255	25.00	0.02	4116	5.193	2955.73	25.01	1.09	4114
6.243	25.50	0.03	4035	5.181	2956.23	25.51	1.10	4033
6.243	26.00	0.03	3958	5.193	2956.73	26.01	1.09	3955
6.243	26.50	0.03	3883	5.193	2957.23	26.51	1.09	3881
6.243	27.00	0.03	3811	5.181	2957.73	27.01	1.10	3809
6.243	27.50	0.03	3742	5.193	2958.23	27.51	1.09	3740
6.243	28.00	0.03	3675	5.193	2958.73	28.01	1.09	3673
6.243	28.50	0.03	3611	5.193	2959.23	28.51	1.09	3609
6.243	29.00	0.03	3548	5.193	2959.73	29.01	1.09	3547
6.243	29.50	0.03	3488	5.193	2960.23	29.51	1.09	3486
6.243	30.00	0.03	3430	5.193	2960.73	30.01	1.09	3428
6.243	30.50	0.03	3374	5.193	2961.23	30.51	1.09	3372
6.243	31.00	0.03	3319	5.193	2961.73	31.01	1.09	3318
6.243	31.50	0.03	3267	5.193	2962.23	31.51	1.09	3265
6.243	32.00	0.03	3216	5.193	2962.73	32.01	1.09	3214
6.243	32.50	0.03	3166	5.193	2963.23	32.51	1.09	3165
6.232	33.00	0.05	3118	5.193	2963.73	33.01	1.09	3117
6.243	33.50	0.03	3072	5.193	2964.23	33.51	1.09	3070
6.232	34.00	0.05	3027	5.193	2964.73	34.01	1.09	3025
6.232	34.50	0.05	2983	5.193	2965.23	34.51	1.09	2981
6.232	35.00	0.05	2940	5.193	2965.73	35.01	1.09	2939
6.232	35.50	0.05	2899	5.193	2966.23	35.51	1.09	2897
6.232	36.00	0.05	2858	5.193	2966.73	36.01	1.09	2857
6.232	36.50	0.05	2819	5.193	2967.23	36.51	1.09	2818
6.232	37.00	0.05	2781	5.193	2967.73	37.01	1.09	2780
6.232	37.50	0.05	2744	5.193	2968.23	37.51	1.09	2743
6.232	38.00	0.05	2708	5.193	2968.73	38.01	1.09	2707
6.22	38.50	0.06	2673	5.193	2969.23	38.51	1.09	2672
6.232	39.00	0.05	2639	5.193	2969.73	39.01	1.09	2637
6.232	39.50	0.05	2605	5.193	2970.23	39.51	1.09	2604
6.232	40.00	0.05	2573	5.193	2970.73	40.01	1.09	2572
6.22	40.50	0.06	2541	5.205	2971.23	40.51	1.07	2540
6.232	41.00	0.05	2510	5.205	2971.73	41.01	1.07	2509
6.22	41.50	0.06	2480	5.205	2972.23	41.51	1.07	2479

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6.22	42.00	0.06	2450	5.205	2972.73	42.01	1.07	2449
6.22	42.50	0.06	2421	5.205	2973.23	42.51	1.07	2420
6.22	43.00	0.06	2393	5.205	2973.73	43.01	1.07	2392
6.22	43.50	0.06	2366	5.216	2974.23	43.51	1.06	2365
6.22	44.00	0.06	2339	5.205	2974.73	44.01	1.07	2338
6.22	44.50	0.06	2312	5.216	2975.23	44.51	1.06	2312
6.22	45.00	0.06	2287	5.205	2975.73	45.01	1.07	2286
6.22	45.50	0.06	2262	5.205	2976.23	45.51	1.07	2261
6.22	46.00	0.06	2237	5.205	2976.73	46.01	1.07	2236
6.22	46.50	0.06	2213	5.216	2977.23	46.51	1.06	2212
6.22	47.00	0.06	2189	5.205	2977.73	47.01	1.07	2189
6.22	47.50	0.06	2166	5.205	2978.23	47.51	1.07	2166
6.22	48.00	0.06	2144	5.205	2978.73	48.01	1.07	2143
6.22	48.50	0.06	2122	5.205	2979.23	48.51	1.07	2121
6.22	49.00	0.06	2100	5.205	2979.73	49.01	1.07	2099
6.209	49.50	0.07	2079	5.205	2980.23	49.51	1.07	2078
6.22	50.00	0.06	2058	5.205	2980.73	50.01	1.07	2057
6.209	50.50	0.07	2038	5.205	2981.23	50.51	1.07	2037
6.22	51.00	0.06	2018	5.205	2981.73	51.01	1.07	2017
6.22	51.50	0.06	1998	5.216	2982.23	51.51	1.06	1998
6.22	52.00	0.06	1979	5.205	2982.73	52.01	1.07	1978
6.22	52.50	0.06	1960	5.205	2983.23	52.51	1.07	1959
6.209	53.00	0.07	1942	5.205	2983.73	53.01	1.07	1941
6.22	53.50	0.06	1923	5.216	2984.23	53.51	1.06	1923
6.22	54.00	0.06	1906	5.205	2984.73	54.01	1.07	1905
6.22	54.50	0.06	1888	5.216	2985.23	54.51	1.06	1888
6.22	55.00	0.06	1871	5.216	2985.73	55.01	1.06	1870
6.22	55.50	0.06	1854	5.216	2986.23	55.51	1.06	1854
6.209	56.00	0.07	1838	5.205	2986.73	56.01	1.07	1837
6.209	56.50	0.07	1821	5.205	2987.23	56.51	1.07	1821
6.22	57.00	0.06	1805	5.205	2987.73	57.01	1.07	1805
6.22	57.50	0.06	1790	5.205	2988.23	57.51	1.07	1789
6.22	58.00	0.06	1774	5.205	2988.73	58.01	1.07	1774
6.209	58.50	0.07	1759	5.205	2989.23	58.51	1.07	1759
6.209	59.00	0.07	1744	5.205	2989.73	59.01	1.07	1744
6.22	59.50	0.06	1729	5.216	2990.23	59.51	1.06	1729
6.22	60.50	0.06	1701	5.216	2991.23	60.51	1.06	1700
6.22	61.50	0.06	1673	5.205	2992.23	61.51	1.07	1673
6.209	62.50	0.07	1646	5.205	2993.23	62.51	1.07	1646
6.209	63.50	0.07	1621	5.216	2994.23	63.51	1.06	1620
6.209	64.50	0.07	1595	5.216	2995.23	64.51	1.06	1595
6.209	65.50	0.07	1571	5.205	2996.23	65.51	1.07	1571
6.209	66.50	0.07	1547	5.205	2997.23	66.51	1.07	1547
6.209	67.50	0.07	1524	5.205	2998.23	67.51	1.07	1524
6.209	68.50	0.07	1502	5.205	2999.23	68.51	1.07	1502

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6.209	69.50	0.07	1481	5.205	3000.23	69.51	1.07	1480
6.209	70.50	0.07	1460	5.205	3001.23	70.51	1.07	1459
6.209	71.50	0.07	1439	5.205	3002.23	71.51	1.07	1439
6.209	72.50	0.07	1419	5.205	3003.23	72.51	1.07	1419
6.209	73.50	0.07	1400	5.205	3004.23	73.51	1.07	1400
6.209	74.50	0.07	1381	5.205	3005.23	74.51	1.07	1381
6.209	75.50	0.07	1363	5.205	3006.23	75.51	1.07	1363
6.209	76.50	0.07	1345	5.205	3007.23	76.51	1.07	1345
6.209	77.50	0.07	1328	5.205	3008.23	77.51	1.07	1328
6.209	78.50	0.07	1311	5.193	3009.23	78.51	1.09	1311
6.209	79.50	0.07	1294	5.205	3010.23	79.51	1.07	1294
6.209	80.50	0.07	1278	5.205	3011.23	80.51	1.07	1278
6.209	81.50	0.07	1263	5.205	3012.23	81.51	1.07	1262
6.209	82.50	0.07	1247	5.205	3013.23	82.51	1.07	1247
6.209	83.50	0.07	1232	5.205	3014.23	83.51	1.07	1232
6.197	84.50	0.08	1218	5.205	3015.23	84.51	1.07	1218
6.209	85.50	0.07	1204	5.205	3016.23	85.51	1.07	1203
6.197	86.50	0.08	1190	5.205	3017.23	86.51	1.07	1189
6.197	87.50	0.08	1176	5.205	3018.23	87.51	1.07	1176
6.197	88.50	0.08	1163	5.205	3019.23	88.51	1.07	1163
6.197	89.50	0.08	1150	5.205	3020.23	89.51	1.07	1150
6.197	90.50	0.08	1137	5.205	3021.23	90.51	1.07	1137
6.197	91.50	0.08	1125	5.205	3022.23	91.51	1.07	1124
6.197	92.50	0.08	1112	5.205	3023.23	92.51	1.07	1112
6.197	93.50	0.08	1101	5.205	3024.23	93.51	1.07	1100
6.197	94.50	0.08	1089	5.205	3025.23	94.51	1.07	1089
6.197	95.50	0.08	1078	5.205	3026.23	95.51	1.07	1077
6.197	96.50	0.08	1066	5.205	3027.23	96.51	1.07	1066
6.185	97.50	0.09	1055	5.205	3028.23	97.51	1.07	1055
6.197	98.50	0.08	1045	5.205	3029.23	98.51	1.07	1045
6.185	99.50	0.09	1034	5.205	3030.23	99.51	1.07	1034
6.197	100.50	0.08	1024	5.205	3031.23	100.51	1.07	1024
6.185	101.50	0.09	1014	5.205	3032.23	101.51	1.07	1014
6.185	102.50	0.09	1004	5.205	3033.23	102.51	1.07	1004
6.185	103.50	0.09	994	5.205	3034.23	103.51	1.07	994
6.185	104.50	0.09	985	5.205	3035.23	104.51	1.07	985
6.185	105.50	0.09	975	5.216	3036.23	105.51	1.06	975
6.185	106.50	0.09	966	5.205	3037.23	106.51	1.07	966
6.185	107.50	0.09	957	5.205	3038.23	107.51	1.07	957
6.185	108.50	0.09	948	5.205	3039.23	108.51	1.07	948
6.185	109.50	0.09	940	5.205	3040.23	109.51	1.07	940
6.185	110.50	0.09	931	5.205	3041.23	110.51	1.07	931
6.185	111.50	0.09	923	5.205	3042.23	111.51	1.07	923
6.185	112.50	0.09	915	5.205	3043.23	112.51	1.07	915
6.185	113.50	0.09	907	5.205	3044.23	113.51	1.07	907

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6.185	114.50	0.09	899	5.205	3045.23	114.51	1.07	899
6.185	115.50	0.09	891	5.205	3046.23	115.51	1.07	891
6.185	116.50	0.09	883	5.205	3047.23	116.51	1.07	883
6.185	117.50	0.09	876	5.193	3048.23	117.51	1.09	876
6.185	118.50	0.09	868	5.193	3049.23	118.51	1.09	868
6.174	123.50	0.10	833	5.205	3054.23	123.51	1.07	833
6.185	128.50	0.09	801	5.205	3059.23	128.51	1.07	801
6.174	133.50	0.10	771	5.216	3064.23	133.51	1.06	771
6.174	138.50	0.10	743	5.216	3069.23	138.51	1.06	743
6.174	143.50	0.10	717	5.216	3074.23	143.51	1.06	717
6.162	148.50	0.12	693	5.216	3079.23	148.51	1.06	693
6.174	153.50	0.10	670	5.216	3084.23	153.51	1.06	670
6.162	158.50	0.12	649	5.216	3089.23	158.51	1.06	649
6.174	163.50	0.10	629	5.216	3094.23	163.51	1.06	629
6.174	168.50	0.10	611	5.228	3099.23	168.51	1.05	611
6.174	173.50	0.10	593	5.216	3104.23	173.51	1.06	593
6.162	178.50	0.12	576	5.228	3109.23	178.51	1.05	576
6.162	183.50	0.12	561	5.216	3114.23	183.51	1.06	561
6.151	188.50	0.13	546	5.216	3119.23	188.51	1.06	546
6.162	193.50	0.12	532	5.216	3124.23	193.51	1.06	532
6.162	198.50	0.12	518	5.216	3129.23	198.51	1.06	518
6.151	203.50	0.13	506	5.216	3134.23	203.51	1.06	506
6.151	208.50	0.13	494	5.216	3139.23	208.51	1.06	493
6.151	213.50	0.13	482	5.216	3144.23	213.51	1.06	482
6.139	218.50	0.14	471	5.205	3149.23	218.51	1.07	471
6.139	223.50	0.14	460	5.205	3154.23	223.51	1.07	460
6.139	228.50	0.14	450	5.205	3159.23	228.51	1.07	450
6.139	233.50	0.14	441	5.205	3164.23	233.51	1.07	441
6.139	238.50	0.14	431	5.205	3169.23	238.51	1.07	431
6.139	243.50	0.14	423	5.216	3174.23	243.51	1.06	423
6.139	248.50	0.14	414	5.205	3179.23	248.51	1.07	414
6.139	253.50	0.14	406	5.205	3184.23	253.51	1.07	406
6.139	258.50	0.14	398	5.205	3189.23	258.51	1.07	398
6.128	263.50	0.15	391	5.205	3194.23	263.51	1.07	390
6.128	268.50	0.15	383	5.205	3199.23	268.51	1.07	383
6.128	273.50	0.15	376	5.205	3204.23	273.51	1.07	376
6.128	278.50	0.15	369	5.205	3209.23	278.51	1.07	369
6.116	283.50	0.16	363	5.205	3214.23	283.51	1.07	363
6.116	288.50	0.16	357	5.205	3219.23	288.51	1.07	357
6.116	293.50	0.16	351	5.193	3224.23	293.51	1.09	351
6.116	298.50	0.16	345	5.205	3229.23	298.51	1.07	345
6.128	303.50	0.15	339	5.205	3234.23	303.51	1.07	339
6.116	308.50	0.16	334	5.205	3239.23	308.51	1.07	334
6.128	313.50	0.15	328	5.205	3244.23	313.51	1.07	328
6.116	318.50	0.16	323	5.205	3249.23	318.51	1.07	323

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PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
6.116	323.50	0.16	318	5.193	3254.23	323.51	1.09	318
6.116	328.50	0.16	313	5.193	3259.23	328.51	1.09	313
6.116	333.50	0.16	309	5.193	3264.23	333.51	1.09	309
6.105	338.50	0.17	304	5.181	3269.23	338.51	1.10	304
6.105	343.50	0.17	300	5.181	3274.23	343.51	1.10	300
6.105	348.50	0.17	295	5.181	3279.23	348.51	1.10	295
6.105	353.50	0.17	291	5.181	3284.23	353.51	1.10	291
6.105	358.50	0.17	287	5.181	3289.23	358.51	1.10	287
6.105	363.50	0.17	283	5.17	3294.23	363.51	1.11	283
6.105	368.50	0.17	279	5.17	3299.23	368.51	1.11	279
6.105	373.50	0.17	276	5.17	3304.23	373.51	1.11	275
6.105	378.50	0.17	272	5.17	3309.23	378.51	1.11	272
6.093	383.50	0.18	268	5.181	3314.23	383.51	1.10	268
6.093	388.50	0.18	265	5.181	3319.23	388.51	1.10	265
6.093	393.50	0.18	262	5.181	3324.23	393.51	1.10	261
6.093	398.50	0.18	258	5.181	3329.23	398.51	1.10	258
6.093	403.50	0.18	255	5.181	3334.23	403.51	1.10	255
6.093	408.50	0.18	252	5.17	3339.23	408.51	1.11	252
6.093	413.50	0.18	249	5.181	3344.23	413.51	1.10	249
6.082	428.50	0.20	240	5.181	3359.23	428.51	1.10	240
6.07	443.50	0.21	232	5.17	3374.23	443.51	1.11	232
6.07	458.50	0.21	224	5.17	3389.23	458.51	1.11	224
6.059	473.50	0.22	217	5.17	3404.23	473.51	1.11	217
6.059	488.50	0.22	211	5.17	3419.23	488.51	1.11	211
6.059	503.50	0.22	204	5.17	3434.23	503.51	1.11	204
6.047	518.50	0.23	198	5.158	3449.23	518.51	1.12	198
6.047	533.50	0.23	193	5.147	3464.23	533.51	1.13	193
6.047	548.50	0.23	188	5.147	3479.23	548.51	1.13	188
6.035	563.50	0.24	183	5.147	3494.23	563.51	1.13	183
6.024	578.50	0.25	178	5.147	3509.23	578.51	1.13	178
6.024	593.50	0.25	173	5.147	3524.23	593.51	1.13	173
6.012	608.50	0.27	169	5.147	3539.23	608.51	1.13	169
6.012	623.50	0.27	165	5.147	3554.23	623.51	1.13	165
6.001	638.50	0.28	161	5.147	3569.23	638.51	1.13	161
6.001	653.50	0.28	157	5.135	3584.23	653.51	1.14	157
6.012	668.50	0.27	154	5.124	3599.23	668.52	1.15	154
6.001	683.50	0.28	151	5.124	3614.23	683.52	1.15	151
5.989	698.50	0.29	147	5.112	3629.23	698.52	1.17	147
5.989	713.50	0.29	144	5.112	3644.23	713.52	1.17	144
5.989	728.50	0.29	141	5.101	3659.23	728.52	1.18	141
5.978	743.50	0.30	138	5.112	3674.23	743.52	1.17	138
5.966	758.50	0.31	136	5.112	3689.23	758.52	1.17	136
5.978	773.50	0.30	133	5.101	3704.23	773.52	1.18	133
5.978	788.50	0.30	131	5.089	3719.23	788.52	1.19	131
5.966	803.50	0.31	128	5.089	3734.23	803.52	1.19	128

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5.955	818.50	0.32	126	5.089	3749.23	818.52	1.19	126
5.955	833.50	0.32	123	5.078	3764.23	833.52	1.20	123
5.955	848.50	0.32	121	5.066	3779.23	848.52	1.21	121
5.943	863.50	0.34	119	5.055	3794.23	863.52	1.22	119
5.943	878.50	0.34	117	5.043	3809.23	878.52	1.23	117
5.92	893.50	0.36	115	5.031	3824.23	893.52	1.25	115
5.92	908.50	0.36	113	5.031	3839.23	908.52	1.25	113
5.908	923.50	0.37	111	5.031	3854.23	923.52	1.25	111
5.897	938.50	0.38	110	5.031	3869.23	938.52	1.25	110
5.885	953.50	0.39	108	5.031	3884.23	953.52	1.25	108
5.885	968.50	0.39	106	5.02	3899.23	968.52	1.26	106
5.885	983.50	0.39	105	5.02	3914.23	983.52	1.26	105
5.874	998.50	0.40	103	5.02	3929.23	998.52	1.26	103
5.862	1013.50	0.42	102	5.008	3944.23	1013.52	1.27	102
5.862	1028.50	0.42	100	4.997	3959.23	1028.52	1.28	100
5.851	1043.50	0.43	99	4.985	3974.23	1043.52	1.29	99
5.839	1058.50	0.44	97	4.985	3989.23	1058.52	1.29	97
5.828	1073.50	0.45	96	4.985	4004.23	1073.52	1.29	96
5.828	1088.50	0.45	95	4.997	4019.23	1088.52	1.28	95
5.816	1103.50	0.46	93	4.974	4034.23	1103.52	1.30	93
5.816	1118.50	0.46	92	4.985	4049.23	1118.52	1.29	92
5.805	1139.47	0.47	90	4.985	4064.23	1133.52	1.29	91
5.793	1154.47	0.48	89	4.974	4079.23	1148.52	1.30	90
5.793	1169.47	0.48	88	4.974	4094.23	1163.52	1.30	88
5.782	1184.47	0.50	87	4.974	4109.23	1178.52	1.30	87
5.793	1199.47	0.48	86	4.951	4124.23	1193.52	1.33	86
5.782	1214.47	0.50	85	4.985	4139.23	1208.52	1.29	85
5.782	1229.47	0.50	84	4.951	4154.23	1223.52	1.33	84
5.77	1244.47	0.51	83	4.962	4169.23	1238.52	1.32	83
5.77	1259.47	0.51	82	4.951	4184.23	1253.52	1.33	82
5.747	1274.47	0.53	81	4.962	4199.23	1268.52	1.32	81
5.747	1289.47	0.53	80	4.951	4214.23	1283.52	1.33	80
5.747	1304.47	0.53	79	4.939	4229.23	1298.51	1.34	79
5.724	1319.47	0.55	78	4.928	4244.23	1313.51	1.35	78
5.724	1334.47	0.55	77	4.928	4259.23	1328.51	1.35	77
5.724	1349.47	0.55	76	4.928	4274.23	1343.51	1.35	77
5.724	1364.47	0.55	75	4.916	4289.23	1358.51	1.36	76
5.712	1379.47	0.57	75	4.916	4304.23	1373.51	1.36	75
5.701	1394.47	0.58	74	4.905	4319.23	1388.51	1.37	74
5.689	1409.47	0.59	73	4.905	4334.23	1403.51	1.37	73
5.689	1424.47	0.59	72	4.916	4349.23	1418.51	1.36	73
5.689	1439.47	0.59	71	4.893	4364.23	1433.51	1.39	72
5.689	1454.47	0.59	71	4.905	4379.23	1448.51	1.37	71
5.678	1469.47	0.60	70	4.916	4394.23	1463.51	1.36	70
5.666	1484.47	0.61	69	4.905	4409.23	1478.51	1.37	70

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5.678	1499.47	0.60	69	4.916	4424.23	1493.51	1.36	69
5.666	1514.47	0.61	68	4.893	4439.23	1508.51	1.39	68
5.666	1529.47	0.61	67	4.881	4454.23	1523.51	1.40	68
5.666	1544.47	0.61	67	4.881	4469.23	1538.51	1.40	67
5.666	1559.47	0.61	66	4.881	4484.23	1553.51	1.40	66
5.655	1574.47	0.62	65	4.893	4499.23	1568.51	1.39	66
5.655	1589.47	0.62	65	4.881	4514.23	1583.51	1.40	65
5.643	1604.47	0.63	64	4.893	4529.23	1598.51	1.39	64
5.632	1619.47	0.65	64	4.881	4544.23	1613.51	1.40	64
5.632	1634.47	0.65	63	4.87	4559.23	1628.51	1.41	63
5.62	1649.47	0.66	62	4.881	4574.23	1643.51	1.40	63
5.62	1664.47	0.66	62	4.87	4589.23	1658.51	1.41	62
5.62	1679.47	0.66	61	4.87	4604.23	1673.51	1.41	61
5.62	1694.47	0.66	61	4.87	4619.23	1688.51	1.41	61
5.608	1709.47	0.67	60	4.87	4634.23	1703.51	1.41	60
5.608	1724.47	0.67	60	4.87	4649.23	1718.51	1.41	60
5.597	1739.47	0.68	59	4.87	4664.23	1733.51	1.41	59
5.597	1754.47	0.68	59	4.87	4679.23	1748.51	1.41	59
5.585	1769.47	0.69	58	4.87	4694.23	1763.51	1.41	58
5.585	1784.47	0.69	58	4.858	4709.23	1778.51	1.42	58
5.574	1799.47	0.70	57	4.87	4724.23	1793.51	1.41	57
5.574	1814.47	0.70	57	4.87	4739.23	1808.51	1.41	57
5.562	1829.47	0.72	56	4.858	4754.23	1823.51	1.42	56
5.551	1844.47	0.73	56	4.858	4769.23	1838.51	1.42	56
5.551	1874.47	0.73	55	4.858	4799.23	1868.51	1.42	55
5.539	1904.47	0.74	54	4.858	4829.23	1898.51	1.42	54
5.539	1934.47	0.74	53	4.847	4859.23	1928.51	1.43	53
5.528	1964.47	0.75	52	4.847	4889.23	1958.51	1.43	53
5.516	1994.47	0.76	52	4.835	4919.23	1988.51	1.44	52
5.505	2024.47	0.77	51	4.835	4949.23	2018.51	1.44	51
5.493	2054.47	0.78	50	4.824	4979.23	2048.51	1.45	50
5.482	2084.47	0.80	49	4.824	5009.23	2078.51	1.45	50
5.47	2114.47	0.81	49	4.801	5039.23	2108.51	1.48	49
5.458	2144.47	0.82	48	4.801	5069.23	2138.51	1.48	48
5.447	2174.47	0.83	47	4.812	5099.23	2168.51	1.47	47
5.447	2204.47	0.83	47	4.778	5129.23	2198.51	1.50	47
5.435	2234.47	0.84	46	4.778	5159.23	2228.51	1.50	46
5.424	2264.47	0.85	45	4.778	5189.23	2258.51	1.50	46
5.412	2294.47	0.87	45	4.766	5219.23	2288.51	1.51	45
5.389	2324.47	0.89	44	4.766	5249.23	2318.51	1.51	44
5.389	2354.47	0.89	44	4.743	5279.23	2348.51	1.53	44
5.378	2384.47	0.90	43	4.743	5309.23	2378.51	1.53	43
5.366	2414.47	0.91	43	4.731	5339.23	2408.51	1.55	43
5.355	2444.47	0.92	42	4.731	5369.23	2438.51	1.55	42
5.331	2474.47	0.95	42	4.708	5399.23	2468.51	1.57	42

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5.331	2504.47	0.95	41	4.708	5429.23	2498.51	1.57	41
5.32	2534.47	0.96	41	4.731	5459.23	2528.51	1.55	41
5.308	2564.47	0.97	40	4.731	5489.23	2558.51	1.55	40
5.308	2594.47	0.97	40	4.72	5519.23	2588.51	1.56	40
5.297	2624.47	0.98	39	4.708	5549.23	2618.51	1.57	39
5.285	2654.47	0.99	39	4.685	5579.23	2648.51	1.59	39
5.262	2684.47	1.02	38	4.674	5609.23	2678.51	1.60	38
5.251	2714.47	1.03	38					
5.251	2744.47	1.03	37					
5.228	2774.47	1.05	37					
5.205	2804.47	1.07	37					
5.193	2834.47	1.09	36					
5.193	2864.47	1.09	36					
5.181	2894.47	1.10	36					
5.17	2919.30	1.11	35					
5.17	2919.48	1.11	35					
5.17	2919.65	1.11	35					
5.17	2919.82	1.11	35					
5.17	2919.98	1.11	35					
5.17	2920.15	1.11	35					
5.17	2920.32	1.11	35					
5.17	2920.48	1.11	35					
5.17	2920.65	1.11	35					
5.17	2920.82	1.11	35					
5.17	2920.98	1.11	35					
5.17	2921.15	1.11	35					
5.17	2921.32	1.11	35					
5.17	2921.48	1.11	35					
5.181	2921.65	1.10	35					
5.17	2921.82	1.11	35					
5.17	2921.98	1.11	35					
5.17	2922.15	1.11	35					
5.17	2922.32	1.11	35					
5.17	2922.48	1.11	35					
5.17	2922.65	1.11	35					
5.17	2922.82	1.11	35					
5.17	2922.98	1.11	35					
5.17	2923.15	1.11	35					
5.17	2923.32	1.11	35					
5.17	2923.48	1.11	35					
5.17	2923.65	1.11	35					
5.17	2923.82	1.11	35					
5.17	2923.98	1.11	35					
5.17	2924.15	1.11	35					
5.17	2924.32	1.11	35					

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PUMPING				RECOVERY			
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown r ² /t (feet) (ft ² /min)
5.17	2924.48	1.11	35				
5.17	2924.65	1.11	35				
5.17	2924.82	1.11	35				
5.17	2924.98	1.11	35				
5.17	2925.15	1.11	35				
5.17	2925.32	1.11	35				
5.17	2925.48	1.11	35				
5.17	2925.65	1.11	35				
5.17	2925.82	1.11	35				
5.17	2925.98	1.11	35				
5.17	2926.15	1.11	35				
5.17	2926.32	1.11	35				
5.17	2926.48	1.11	35				
5.17	2926.65	1.11	35				
5.17	2926.82	1.11	35				
5.17	2926.98	1.11	35				
5.17	2927.15	1.11	35				
5.17	2927.32	1.11	35				
5.17	2927.48	1.11	35				
5.17	2927.65	1.11	35				
5.17	2927.82	1.11	35				
5.17	2927.98	1.11	35				
5.17	2928.15	1.11	35				
5.17	2928.32	1.11	35				
5.17	2928.48	1.11	35				
5.17	2928.65	1.11	35				
5.17	2928.82	1.11	35				
5.17	2928.98	1.11	35				
5.17	2929.15	1.11	35				
5.17	2929.32	1.11	35				
5.181	2929.82	1.10	35				

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PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)

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PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
10.132	0.00	0.00	--	9.994	2930.72	0.00	0.14	--
10.144	0.17	-0.01	729324	9.994	2930.90	0.18	0.14	669105
10.144	0.33	-0.01	364662	9.994	2931.07	0.35	0.14	348959
10.144	0.50	-0.01	243108	9.994	2931.23	0.51	0.14	236027
10.144	0.67	-0.01	182331	9.994	2931.40	0.68	0.14	178319
10.144	0.83	-0.01	145865	9.994	2931.57	0.85	0.14	143286
10.144	1.00	-0.01	121554	9.994	2931.73	1.01	0.14	119758
10.144	1.17	-0.01	104189	9.994	2931.90	1.18	0.14	102867
10.144	1.33	-0.01	91166	10.005	2932.07	1.35	0.13	90151
10.144	1.50	-0.01	81036	9.994	2932.23	1.51	0.14	80234
10.132	1.67	0.00	72932	9.994	2932.40	1.68	0.14	72282
10.132	1.83	0.00	66302	9.994	2932.57	1.85	0.14	65764
10.132	2.00	0.00	60777	9.994	2932.73	2.01	0.14	60325
10.132	2.17	0.00	56102	9.994	2932.90	2.18	0.14	55716
10.132	2.33	0.00	52095	9.994	2933.07	2.35	0.14	51762
10.132	2.50	0.00	48622	9.994	2933.23	2.51	0.14	48332
10.132	2.67	0.00	45583	9.994	2933.40	2.68	0.14	45328
10.132	2.83	0.00	42901	9.994	2933.57	2.85	0.14	42675
10.132	3.00	0.00	40518	9.994	2933.73	3.01	0.14	40316
10.132	3.17	0.00	38385	9.994	2933.90	3.18	0.14	38205
10.132	3.33	0.00	36466	9.994	2934.07	3.35	0.14	36303
10.132	3.50	0.00	34730	9.994	2934.23	3.51	0.14	34582
10.132	3.67	0.00	33151	9.994	2934.40	3.68	0.14	33016
10.132	3.83	0.00	31710	10.005	2934.57	3.85	0.13	31586
10.132	4.00	0.00	30389	10.005	2934.73	4.01	0.13	30275
10.132	4.17	0.00	29173	10.005	2934.90	4.18	0.13	29068
10.132	4.33	0.00	28051	10.005	2935.07	4.35	0.13	27954
10.132	4.50	0.00	27012	9.994	2935.23	4.51	0.14	26922
10.132	4.67	0.00	26047	9.994	2935.40	4.68	0.14	25964
10.132	4.83	0.00	25149	10.005	2935.57	4.85	0.13	25071
10.132	5.00	0.00	24311	10.005	2935.73	5.01	0.13	24238
10.121	5.17	0.01	23527	10.005	2935.90	5.18	0.13	23458
10.132	5.33	0.00	22791	10.005	2936.07	5.35	0.13	22727
10.132	5.50	0.00	22101	10.005	2936.23	5.51	0.13	22041

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PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
10.132	5.67	0.00	21451	10.005	2936.40	5.68	0.13	21394
10.132	5.83	0.00	20838	10.005	2936.57	5.85	0.13	20784
10.132	6.00	0.00	20259	10.005	2936.73	6.01	0.13	20208
10.132	6.17	0.00	19711	10.005	2936.90	6.18	0.13	19664
10.121	6.33	0.01	19193	10.005	2937.07	6.35	0.13	19147
10.132	6.50	0.00	18701	10.005	2937.23	6.51	0.13	18658
10.132	6.67	0.00	18233	10.005	2937.40	6.68	0.13	18192
10.132	6.83	0.00	17788	9.994	2937.57	6.85	0.14	17749
10.132	7.00	0.00	17365	10.005	2937.73	7.01	0.13	17328
10.132	7.17	0.00	16961	10.005	2937.90	7.18	0.13	16926
10.132	7.33	0.00	16576	10.005	2938.07	7.35	0.13	16542
10.132	7.50	0.00	16207	9.994	2938.23	7.51	0.14	16175
10.132	7.67	0.00	15855	9.994	2938.40	7.68	0.14	15824
10.132	7.83	0.00	15518	10.005	2938.57	7.85	0.13	15488
10.132	8.00	0.00	15194	9.994	2938.73	8.01	0.14	15166
10.132	8.17	0.00	14884	10.005	2938.90	8.18	0.13	14857
10.132	8.33	0.00	14586	10.005	2939.07	8.35	0.13	14560
10.132	8.50	0.00	14300	10.005	2939.23	8.51	0.13	14275
10.132	8.67	0.00	14025	10.005	2939.40	8.68	0.13	14001
10.132	8.83	0.00	13761	10.005	2939.57	8.85	0.13	13738
10.132	9.00	0.00	13506	10.005	2939.73	9.01	0.13	13484
10.132	9.17	0.00	13260	10.005	2939.90	9.18	0.13	13239
10.132	9.33	0.00	13024	10.005	2940.07	9.35	0.13	13003
10.132	9.50	0.00	12795	10.005	2940.23	9.51	0.13	12775
10.132	9.67	0.00	12575	10.005	2940.40	9.68	0.13	12555
10.132	9.83	0.00	12361	10.005	2940.57	9.85	0.13	12343
10.132	10.00	0.00	12155	10.005	2940.73	10.01	0.13	12137
10.132	10.50	0.00	11577	10.005	2941.23	10.51	0.13	11560
10.132	11.00	0.00	11050	10.005	2941.73	11.01	0.13	11035
10.132	11.50	0.00	10570	10.005	2942.23	11.51	0.13	10556
10.132	12.00	0.00	10130	10.005	2942.73	12.01	0.13	10117
10.132	12.50	0.00	9724	10.005	2943.23	12.51	0.13	9713
10.132	13.00	0.00	9350	10.017	2943.73	13.01	0.12	9340
10.132	13.50	0.00	9004	10.005	2944.23	13.51	0.13	8994
10.132	14.00	0.00	8682	10.017	2944.73	14.01	0.12	8673
10.132	14.50	0.00	8383	10.017	2945.23	14.51	0.12	8374
10.132	15.00	0.00	8104	10.017	2945.73	15.01	0.12	8096
10.132	15.50	0.00	7842	10.005	2946.23	15.51	0.13	7835
10.132	16.00	0.00	7597	10.017	2946.73	16.01	0.12	7590
10.132	16.50	0.00	7367	10.005	2947.23	16.51	0.13	7360
10.132	17.00	0.00	7150	10.005	2947.73	17.01	0.13	7144
10.132	17.50	0.00	6946	10.005	2948.23	17.51	0.13	6940
10.132	18.00	0.00	6753	10.005	2948.73	18.01	0.13	6747
10.132	18.50	0.00	6570	10.005	2949.23	18.51	0.13	6565
10.132	19.00	0.00	6398	10.005	2949.73	19.01	0.13	6393

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PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
10.132	19.50	0.00	6234	10.005	2950.23	19.51	0.13	6229
10.132	20.00	0.00	6078	10.017	2950.73	20.01	0.12	6073
10.132	20.50	0.00	5929	10.017	2951.23	20.51	0.12	5925
10.132	21.00	0.00	5788	10.005	2951.73	21.01	0.13	5784
10.132	21.50	0.00	5654	10.005	2952.23	21.51	0.13	5650
10.132	22.00	0.00	5525	10.017	2952.73	22.01	0.12	5521
10.132	22.50	0.00	5402	10.017	2953.23	22.51	0.12	5399
10.132	23.00	0.00	5285	10.017	2953.73	23.01	0.12	5282
10.132	23.50	0.00	5173	10.017	2954.23	23.51	0.12	5169
10.132	24.00	0.00	5065	10.017	2954.73	24.01	0.12	5062
10.132	24.50	0.00	4961	10.017	2955.23	24.51	0.12	4958
10.132	25.00	0.00	4862	10.017	2955.73	25.01	0.12	4859
10.132	25.50	0.00	4767	10.017	2956.23	25.51	0.12	4764
10.144	26.00	-0.01	4675	10.017	2956.73	26.01	0.12	4672
10.144	26.50	-0.01	4587	10.017	2957.23	26.51	0.12	4584
10.144	27.00	-0.01	4502	10.017	2957.73	27.01	0.12	4500
10.132	27.50	0.00	4420	10.028	2958.23	27.51	0.10	4418
10.144	28.00	-0.01	4341	10.028	2958.73	28.01	0.10	4339
10.144	28.50	-0.01	4265	10.028	2959.23	28.51	0.10	4263
10.144	29.00	-0.01	4192	10.028	2959.73	29.01	0.10	4189
10.144	29.50	-0.01	4120	10.028	2960.23	29.51	0.10	4118
10.144	30.00	-0.01	4052	10.028	2960.73	30.01	0.10	4050
10.144	30.50	-0.01	3985	10.028	2961.23	30.51	0.10	3983
10.132	31.00	0.00	3921	10.028	2961.73	31.01	0.10	3919
10.144	31.50	-0.01	3859	10.028	2962.23	31.51	0.10	3857
10.132	32.00	0.00	3799	10.028	2962.73	32.01	0.10	3797
10.144	32.50	-0.01	3740	10.017	2963.23	32.51	0.12	3738
10.144	33.00	-0.01	3683	10.028	2963.73	33.01	0.10	3682
10.144	33.50	-0.01	3628	10.028	2964.23	33.51	0.10	3627
10.132	34.00	0.00	3575	10.017	2964.73	34.01	0.12	3574
10.132	34.50	0.00	3523	10.028	2965.23	34.51	0.10	3522
10.132	35.00	0.00	3473	10.028	2965.73	35.01	0.10	3471
10.132	35.50	0.00	3424	10.028	2966.23	35.51	0.10	3423
10.132	36.00	0.00	3377	10.028	2966.73	36.01	0.10	3375
10.132	36.50	0.00	3330	10.028	2967.23	36.51	0.10	3329
10.132	37.00	0.00	3285	10.028	2967.73	37.01	0.10	3284
10.132	37.50	0.00	3241	10.028	2968.23	37.51	0.10	3240
10.132	38.00	0.00	3199	10.017	2968.73	38.01	0.12	3198
10.132	38.50	0.00	3157	10.028	2969.23	38.51	0.10	3156
10.132	39.00	0.00	3117	10.028	2969.73	39.01	0.10	3116
10.132	39.50	0.00	3077	10.028	2970.23	39.51	0.10	3076
10.132	40.00	0.00	3039	10.028	2970.73	40.01	0.10	3038
10.132	40.50	0.00	3001	10.028	2971.23	40.51	0.10	3000
10.132	41.00	0.00	2965	10.04	2971.73	41.01	0.09	2964
10.132	41.50	0.00	2929	10.04	2972.23	41.51	0.09	2928

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PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
10.132	42.00	0.00	2894	10.04	2972.73	42.01	0.09	2893
10.132	42.50	0.00	2860	10.04	2973.23	42.51	0.09	2859
10.132	43.00	0.00	2827	10.04	2973.73	43.01	0.09	2826
10.132	43.50	0.00	2794	10.04	2974.23	43.51	0.09	2793
10.132	44.00	0.00	2763	10.04	2974.73	44.01	0.09	2762
10.132	44.50	0.00	2732	10.04	2975.23	44.51	0.09	2731
10.132	45.00	0.00	2701	10.04	2975.73	45.01	0.09	2700
10.132	45.50	0.00	2672	10.04	2976.23	45.51	0.09	2671
10.132	46.00	0.00	2642	10.051	2976.73	46.01	0.08	2642
10.132	46.50	0.00	2614	10.04	2977.23	46.51	0.09	2613
10.121	47.00	0.01	2586	10.04	2977.73	47.01	0.09	2585
10.121	47.50	0.01	2559	10.04	2978.23	47.51	0.09	2558
10.132	48.00	0.00	2532	10.04	2978.73	48.01	0.09	2532
10.132	48.50	0.00	2506	10.04	2979.23	48.51	0.09	2505
10.132	49.00	0.00	2481	10.04	2979.73	49.01	0.09	2480
10.132	49.50	0.00	2456	10.04	2980.23	49.51	0.09	2455
10.132	50.00	0.00	2431	10.04	2980.73	50.01	0.09	2430
10.132	50.50	0.00	2407	10.04	2981.23	50.51	0.09	2406
10.132	51.00	0.00	2383	10.04	2981.73	51.01	0.09	2383
10.132	51.50	0.00	2360	10.04	2982.23	51.51	0.09	2360
10.132	52.00	0.00	2338	10.04	2982.73	52.01	0.09	2337
10.121	52.50	0.01	2315	10.051	2983.23	52.51	0.08	2315
10.121	53.00	0.01	2293	10.04	2983.73	53.01	0.09	2293
10.121	53.50	0.01	2272	10.04	2984.23	53.51	0.09	2271
10.121	54.00	0.01	2251	10.051	2984.73	54.01	0.08	2250
10.121	54.50	0.01	2230	10.04	2985.23	54.51	0.09	2230
10.121	55.00	0.01	2210	10.051	2985.73	55.01	0.08	2209
10.121	55.50	0.01	2190	10.04	2986.23	55.51	0.09	2190
10.121	56.00	0.01	2171	10.04	2986.73	56.01	0.09	2170
10.121	56.50	0.01	2151	10.04	2987.23	56.51	0.09	2151
10.121	57.00	0.01	2133	10.04	2987.73	57.01	0.09	2132
10.109	57.50	0.02	2114	10.04	2988.23	57.51	0.09	2113
10.121	58.00	0.01	2096	10.04	2988.73	58.01	0.09	2095
10.109	58.50	0.02	2078	10.04	2989.23	58.51	0.09	2077
10.121	59.00	0.01	2060	10.051	2989.73	59.01	0.08	2060
10.121	59.50	0.01	2043	10.04	2990.23	59.51	0.09	2042
10.109	60.50	0.02	2009	10.051	2991.23	60.51	0.08	2009
10.121	61.50	0.01	1976	10.051	2992.23	61.51	0.08	1976
10.109	62.50	0.02	1945	10.051	2993.23	62.51	0.08	1944
10.121	63.50	0.01	1914	10.051	2994.23	63.51	0.08	1914
10.121	64.50	0.01	1885	10.051	2995.23	64.51	0.08	1884
10.121	65.50	0.01	1856	10.04	2996.23	65.51	0.09	1855
10.121	66.50	0.01	1828	10.04	2997.23	66.51	0.09	1827
10.121	67.50	0.01	1801	10.051	2998.23	67.51	0.08	1800
10.121	68.50	0.01	1775	10.04	2999.23	68.51	0.09	1774

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RECOVERY

Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
7.224	5.67	0.02	18559	7.27	2936.40	5.68	-0.02	18510
7.236	5.83	0.01	18028	7.27	2936.57	5.85	-0.02	17982
7.236	6.00	0.01	17528	7.27	2936.73	6.01	-0.02	17484
7.236	6.17	0.01	17054	7.27	2936.90	6.18	-0.02	17012
7.236	6.33	0.01	16605	7.27	2937.07	6.35	-0.02	16566
7.236	6.50	0.01	16179	7.27	2937.23	6.51	-0.02	16142
7.236	6.67	0.01	15775	7.27	2937.40	6.68	-0.02	15739
7.236	6.83	0.01	15390	7.259	2937.57	6.85	-0.01	15356
7.247	7.00	0.00	15024	7.27	2937.73	7.01	-0.02	14991
7.247	7.17	0.00	14674	7.27	2937.90	7.18	-0.02	14644
7.236	7.33	0.01	14341	7.27	2938.07	7.35	-0.02	14311
7.236	7.50	0.01	14022	7.27	2938.23	7.51	-0.02	13994
7.236	7.67	0.01	13717	7.27	2938.40	7.68	-0.02	13690
7.236	7.83	0.01	13425	7.27	2938.57	7.85	-0.02	13400
7.236	8.00	0.01	13146	7.27	2938.73	8.01	-0.02	13121
7.236	8.17	0.01	12877	7.27	2938.90	8.18	-0.02	12854
7.236	8.33	0.01	12620	7.27	2939.07	8.35	-0.02	12597
7.236	8.50	0.01	12372	7.27	2939.23	8.51	-0.02	12351
7.236	8.67	0.01	12134	7.27	2939.40	8.68	-0.02	12113
7.247	8.83	0.00	11905	7.27	2939.57	8.85	-0.02	11885
7.236	9.00	0.01	11685	7.27	2939.73	9.01	-0.02	11666
7.236	9.17	0.01	11473	7.27	2939.90	9.18	-0.02	11454
7.236	9.33	0.01	11268	7.27	2940.07	9.35	-0.02	11250
7.236	9.50	0.01	11070	7.27	2940.23	9.51	-0.02	11053
7.236	9.67	0.01	10879	7.27	2940.40	9.68	-0.02	10862
7.236	9.83	0.01	10695	7.27	2940.57	9.85	-0.02	10678
7.236	10.00	0.01	10517	7.27	2940.73	10.01	-0.02	10501
7.224	10.50	0.02	10016	7.247	2941.23	10.51	0.00	10001
7.201	11.00	0.05	9560	7.236	2941.73	11.01	0.01	9547
7.201	11.50	0.05	9145	7.236	2942.23	11.51	0.01	9133
7.189	12.00	0.06	8764	7.236	2942.73	12.01	0.01	8753
7.201	12.50	0.05	8413	7.236	2943.23	12.51	0.01	8403
7.201	13.00	0.05	8090	7.236	2943.73	13.01	0.01	8080
7.189	13.50	0.06	7790	7.236	2944.23	13.51	0.01	7781
7.201	14.00	0.05	7512	7.236	2944.73	14.01	0.01	7504
7.201	14.50	0.05	7253	7.236	2945.23	14.51	0.01	7245
7.201	15.00	0.05	7011	7.236	2945.73	15.01	0.01	7004
7.201	15.50	0.05	6785	7.236	2946.23	15.51	0.01	6778
7.189	16.00	0.06	6573	7.236	2946.73	16.01	0.01	6567
7.189	16.50	0.06	6374	7.236	2947.23	16.51	0.01	6368
7.189	17.00	0.06	6186	7.236	2947.73	17.01	0.01	6181
7.189	17.50	0.06	6009	7.236	2948.23	17.51	0.01	6004
7.201	18.00	0.05	5843	7.236	2948.73	18.01	0.01	5838
7.189	18.50	0.06	5685	7.236	2949.23	18.51	0.01	5680
7.201	19.00	0.05	5535	7.247	2949.73	19.01	0.00	5531

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Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
7.201	19.50	0.05	5393	7.236	2950.23	19.51	0.01	5389
7.201	20.00	0.05	5258	7.247	2950.73	20.01	0.00	5254
7.189	20.50	0.06	5130	7.247	2951.23	20.51	0.00	5126
7.201	21.00	0.05	5008	7.247	2951.73	21.01	0.00	5004
7.201	21.50	0.05	4891	7.247	2952.23	21.51	0.00	4888
7.201	22.00	0.05	4780	7.247	2952.73	22.01	0.00	4777
7.201	22.50	0.05	4674	7.247	2953.23	22.51	0.00	4671
7.201	23.00	0.05	4572	7.247	2953.73	23.01	0.00	4569
7.201	23.50	0.05	4475	7.247	2954.23	23.51	0.00	4472
7.201	24.00	0.05	4382	7.259	2954.73	24.01	-0.01	4379
7.201	24.50	0.05	4292	7.247	2955.23	24.51	0.00	4290
7.201	25.00	0.05	4207	7.259	2955.73	25.01	-0.01	4204
7.201	25.50	0.05	4124	7.259	2956.23	25.51	-0.01	4122
7.201	26.00	0.05	4045	7.259	2956.73	26.01	-0.01	4042
7.201	26.50	0.05	3968	7.247	2957.23	26.51	0.00	3966
7.201	27.00	0.05	3895	7.259	2957.73	27.01	-0.01	3893
7.201	27.50	0.05	3824	7.259	2958.23	27.51	-0.01	3822
7.201	28.00	0.05	3756	7.259	2958.73	28.01	-0.01	3754
7.213	28.50	0.03	3690	7.259	2959.23	28.51	-0.01	3688
7.201	29.00	0.05	3626	7.259	2959.73	29.01	-0.01	3625
7.201	29.50	0.05	3565	7.259	2960.23	29.51	-0.01	3563
7.201	30.00	0.05	3506	7.27	2960.73	30.01	-0.02	3504
7.189	30.50	0.06	3448	7.27	2961.23	30.51	-0.02	3446
7.201	31.00	0.05	3392	7.27	2961.73	31.01	-0.02	3391
7.189	31.50	0.06	3339	7.27	2962.23	31.51	-0.02	3337
7.189	32.00	0.06	3286	7.27	2962.73	32.01	-0.02	3285
7.189	32.50	0.06	3236	7.27	2963.23	32.51	-0.02	3234
7.201	33.00	0.05	3187	7.27	2963.73	33.01	-0.02	3185
7.189	33.50	0.06	3139	7.27	2964.23	33.51	-0.02	3138
7.201	34.00	0.05	3093	7.27	2964.73	34.01	-0.02	3092
7.201	34.50	0.05	3048	7.27	2965.23	34.51	-0.02	3047
7.189	35.00	0.06	3005	7.282	2965.73	35.01	-0.04	3003
7.201	35.50	0.05	2962	7.282	2966.23	35.51	-0.04	2961
7.201	36.00	0.05	2921	7.27	2966.73	36.01	-0.02	2920
7.201	36.50	0.05	2881	7.27	2967.23	36.51	-0.02	2880
7.201	37.00	0.05	2842	7.282	2967.73	37.01	-0.04	2841
7.189	37.50	0.06	2804	7.282	2968.23	37.51	-0.04	2803
7.189	38.00	0.06	2768	7.27	2968.73	38.01	-0.02	2766
7.189	38.50	0.06	2732	7.282	2969.23	38.51	-0.04	2730
7.201	39.00	0.05	2697	7.282	2969.73	39.01	-0.04	2696
7.201	39.50	0.05	2662	7.293	2970.23	39.51	-0.05	2661
7.201	40.00	0.05	2629	7.282	2970.73	40.01	-0.04	2628
7.201	40.50	0.05	2597	7.293	2971.23	40.51	-0.05	2596
7.201	41.00	0.05	2565	7.293	2971.73	41.01	-0.05	2564
7.201	41.50	0.05	2534	7.293	2972.23	41.51	-0.05	2533

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7.189	42.00	0.06	2504	7.293	2972.73	42.01	-0.05	2503
7.201	42.50	0.05	2474	7.293	2973.23	42.51	-0.05	2474
7.201	43.00	0.05	2446	7.293	2973.73	43.01	-0.05	2445
7.201	43.50	0.05	2418	7.293	2974.23	43.51	-0.05	2417
7.189	44.00	0.06	2390	7.293	2974.73	44.01	-0.05	2389
7.189	44.50	0.06	2363	7.293	2975.23	44.51	-0.05	2362
7.201	45.00	0.05	2337	7.305	2975.73	45.01	-0.06	2336
7.201	45.50	0.05	2311	7.305	2976.23	45.51	-0.06	2311
7.189	46.00	0.06	2286	7.305	2976.73	46.01	-0.06	2285
7.201	46.50	0.05	2262	7.305	2977.23	46.51	-0.06	2261
7.189	47.00	0.06	2238	7.305	2977.73	47.01	-0.06	2237
7.201	47.50	0.05	2214	7.293	2978.23	47.51	-0.05	2213
7.201	48.00	0.05	2191	7.293	2978.73	48.01	-0.05	2190
7.201	48.50	0.05	2168	7.305	2979.23	48.51	-0.06	2168
7.201	49.00	0.05	2146	7.293	2979.73	49.01	-0.05	2146
7.201	49.50	0.05	2125	7.305	2980.23	49.51	-0.06	2124
7.201	50.00	0.05	2103	7.305	2980.73	50.01	-0.06	2103
7.201	50.50	0.05	2082	7.305	2981.23	50.51	-0.06	2082
7.189	51.00	0.06	2062	7.305	2981.73	51.01	-0.06	2061
7.201	51.50	0.05	2042	7.305	2982.23	51.51	-0.06	2041
7.201	52.00	0.05	2022	7.305	2982.73	52.01	-0.06	2022
7.201	52.50	0.05	2003	7.305	2983.23	52.51	-0.06	2003
7.201	53.00	0.05	1984	7.305	2983.73	53.01	-0.06	1984
7.201	53.50	0.05	1966	7.305	2984.23	53.51	-0.06	1965
7.201	54.00	0.05	1948	7.305	2984.73	54.01	-0.06	1947
7.201	54.50	0.05	1930	7.305	2985.23	54.51	-0.06	1929
7.201	55.00	0.05	1912	7.305	2985.73	55.01	-0.06	1912
7.201	55.50	0.05	1895	7.305	2986.23	55.51	-0.06	1894
7.201	56.00	0.05	1878	7.305	2986.73	56.01	-0.06	1877
7.201	56.50	0.05	1861	7.305	2987.23	56.51	-0.06	1861
7.189	57.00	0.06	1845	7.305	2987.73	57.01	-0.06	1845
7.201	57.50	0.05	1829	7.305	2988.23	57.51	-0.06	1828
7.201	58.00	0.05	1813	7.305	2988.73	58.01	-0.06	1813
7.201	58.50	0.05	1798	7.316	2989.23	58.51	-0.07	1797
7.201	59.00	0.05	1782	7.316	2989.73	59.01	-0.07	1782
7.213	59.50	0.03	1767	7.316	2990.23	59.51	-0.07	1767
7.189	60.50	0.06	1738	7.293	2991.23	60.51	-0.05	1738
7.189	61.50	0.06	1710	7.293	2992.23	61.51	-0.05	1710
7.178	62.50	0.07	1683	7.293	2993.23	62.51	-0.05	1682
7.178	63.50	0.07	1656	7.293	2994.23	63.51	-0.05	1656
7.189	64.50	0.06	1630	7.293	2995.23	64.51	-0.05	1630
7.178	65.50	0.07	1606	7.293	2996.23	65.51	-0.05	1605
7.178	66.50	0.07	1581	7.293	2997.23	66.51	-0.05	1581
7.178	67.50	0.07	1558	7.293	2998.23	67.51	-0.05	1558
7.189	68.50	0.06	1535	7.282	2999.23	68.51	-0.04	1535

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7.178	69.50	0.07	1513	7.293	3000.23	69.51	-0.05	1513
7.178	70.50	0.07	1492	7.305	3001.23	70.51	-0.06	1491
7.189	71.50	0.06	1471	7.293	3002.23	71.51	-0.05	1471
7.178	72.50	0.07	1451	7.293	3003.23	72.51	-0.05	1450
7.178	73.50	0.07	1431	7.305	3004.23	73.51	-0.06	1431
7.189	74.50	0.06	1412	7.293	3005.23	74.51	-0.05	1411
7.189	75.50	0.06	1393	7.293	3006.23	75.51	-0.05	1393
7.189	76.50	0.06	1375	7.293	3007.23	76.51	-0.05	1374
7.189	77.50	0.06	1357	7.293	3008.23	77.51	-0.05	1357
7.189	78.50	0.06	1340	7.293	3009.23	78.51	-0.05	1339
7.189	79.50	0.06	1323	7.293	3010.23	79.51	-0.05	1323
7.189	80.50	0.06	1306	7.305	3011.23	80.51	-0.06	1306
7.189	81.50	0.06	1290	7.305	3012.23	81.51	-0.06	1290
7.201	82.50	0.05	1275	7.305	3013.23	82.51	-0.06	1274
7.189	83.50	0.06	1259	7.305	3014.23	83.51	-0.06	1259
7.189	84.50	0.06	1245	7.305	3015.23	84.51	-0.06	1244
7.201	85.50	0.05	1230	7.305	3016.23	85.51	-0.06	1230
7.189	86.50	0.06	1216	7.305	3017.23	86.51	-0.06	1216
7.189	87.50	0.06	1202	7.305	3018.23	87.51	-0.06	1202
7.201	88.50	0.05	1188	7.305	3019.23	88.51	-0.06	1188
7.201	89.50	0.05	1175	7.316	3020.23	89.51	-0.07	1175
7.189	90.50	0.06	1162	7.305	3021.23	90.51	-0.06	1162
7.189	91.50	0.06	1149	7.305	3022.23	91.51	-0.06	1149
7.201	92.50	0.05	1137	7.316	3023.23	92.51	-0.07	1137
7.201	93.50	0.05	1125	7.316	3024.23	93.51	-0.07	1125
7.201	94.50	0.05	1113	7.316	3025.23	94.51	-0.07	1113
7.201	95.50	0.05	1101	7.316	3026.23	95.51	-0.07	1101
7.201	96.50	0.05	1090	7.316	3027.23	96.51	-0.07	1090
7.189	97.50	0.06	1079	7.316	3028.23	97.51	-0.07	1078
7.201	98.50	0.05	1068	7.316	3029.23	98.51	-0.07	1068
7.213	99.50	0.03	1057	7.316	3030.23	99.51	-0.07	1057
7.201	100.50	0.05	1046	7.316	3031.23	100.51	-0.07	1046
7.201	101.50	0.05	1036	7.316	3032.23	101.51	-0.07	1036
7.201	102.50	0.05	1026	7.316	3033.23	102.51	-0.07	1026
7.213	103.50	0.03	1016	7.316	3034.23	103.51	-0.07	1016
7.201	104.50	0.05	1006	7.316	3035.23	104.51	-0.07	1006
7.213	105.50	0.03	997	7.328	3036.23	105.51	-0.08	997
7.201	106.50	0.05	987	7.328	3037.23	106.51	-0.08	987
7.201	107.50	0.05	978	7.328	3038.23	107.51	-0.08	978
7.213	108.50	0.03	969	7.316	3039.23	108.51	-0.07	969
7.213	109.50	0.03	960	7.328	3040.23	109.51	-0.08	960
7.213	110.50	0.03	952	7.316	3041.23	110.51	-0.07	952
7.213	111.50	0.03	943	7.328	3042.23	111.51	-0.08	943
7.213	112.50	0.03	935	7.328	3043.23	112.51	-0.08	935
7.213	113.50	0.03	927	7.339	3044.23	113.51	-0.09	926

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7.213	114.50	0.03	918	7.328	3045.23	114.51	-0.08	918
7.224	115.50	0.02	911	7.339	3046.23	115.51	-0.09	910
7.224	116.50	0.02	903	7.339	3047.23	116.51	-0.09	903
7.224	117.50	0.02	895	7.339	3048.23	117.51	-0.09	895
7.224	118.50	0.02	887	7.339	3049.23	118.51	-0.09	887
7.189	123.50	0.06	852	7.316	3054.23	123.51	-0.07	851
7.189	128.50	0.06	818	7.316	3059.23	128.51	-0.07	818
7.189	133.50	0.06	788	7.316	3064.23	133.51	-0.07	788
7.189	138.50	0.06	759	7.328	3069.23	138.51	-0.08	759
7.201	143.50	0.05	733	7.328	3074.23	143.51	-0.08	733
7.189	148.50	0.06	708	7.328	3079.23	148.51	-0.08	708
7.201	153.50	0.05	685	7.328	3084.23	153.51	-0.08	685
7.213	158.50	0.03	664	7.328	3089.23	158.51	-0.08	663
7.213	163.50	0.03	643	7.339	3094.23	163.51	-0.09	643
7.224	168.50	0.02	624	7.339	3099.23	168.51	-0.09	624
7.224	173.50	0.02	606	7.339	3104.23	173.51	-0.09	606
7.224	178.50	0.02	589	7.339	3109.23	178.51	-0.09	589
7.224	183.50	0.02	573	7.351	3114.23	183.51	-0.10	573
7.236	188.50	0.01	558	7.351	3119.23	188.51	-0.10	558
7.236	193.50	0.01	543	7.363	3124.23	193.51	-0.12	543
7.236	198.50	0.01	530	7.363	3129.23	198.51	-0.12	530
7.247	203.50	0.00	517	7.363	3134.23	203.51	-0.12	517
7.247	208.50	0.00	504	7.374	3139.23	208.51	-0.13	504
7.247	213.50	0.00	493	7.374	3144.23	213.51	-0.13	493
7.247	218.50	0.00	481	7.363	3149.23	218.51	-0.12	481
7.259	223.50	-0.01	471	7.374	3154.23	223.51	-0.13	471
7.259	228.50	-0.01	460	7.374	3159.23	228.51	-0.13	460
7.27	233.50	-0.02	450	7.386	3164.23	233.51	-0.14	450
7.259	238.50	-0.01	441	7.386	3169.23	238.51	-0.14	441
7.27	243.50	-0.02	432	7.386	3174.23	243.51	-0.14	432
7.282	248.50	-0.04	423	7.397	3179.23	248.51	-0.15	423
7.282	253.50	-0.04	415	7.397	3184.23	253.51	-0.15	415
7.27	258.50	-0.02	407	7.397	3189.23	258.51	-0.15	407
7.282	263.50	-0.04	399	7.397	3194.23	263.51	-0.15	399
7.282	268.50	-0.04	392	7.397	3199.23	268.51	-0.15	392
7.282	273.50	-0.04	385	7.409	3204.23	273.51	-0.16	384
7.282	278.50	-0.04	378	7.409	3209.23	278.51	-0.16	378
7.282	283.50	-0.04	371	7.42	3214.23	283.51	-0.17	371
7.293	288.50	-0.05	365	7.42	3219.23	288.51	-0.17	365
7.293	293.50	-0.05	358	7.42	3224.23	293.51	-0.17	358
7.293	298.50	-0.05	352	7.42	3229.23	298.51	-0.17	352
7.293	303.50	-0.05	347	7.409	3234.23	303.51	-0.16	346
7.282	308.50	-0.04	341	7.409	3239.23	308.51	-0.16	341
7.293	313.50	-0.05	335	7.42	3244.23	313.51	-0.17	335
7.282	318.50	-0.04	330	7.409	3249.23	318.51	-0.16	330

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7.293	323.50	-0.05	325	7.409	3254.23	323.51	-0.16	325
7.293	328.50	-0.05	320	7.409	3259.23	328.51	-0.16	320
7.293	333.50	-0.05	315	7.397	3264.23	333.51	-0.15	315
7.282	338.50	-0.04	311	7.397	3269.23	338.51	-0.15	311
7.282	343.50	-0.04	306	7.409	3274.23	343.51	-0.16	306
7.293	348.50	-0.05	302	7.397	3279.23	348.51	-0.15	302
7.293	353.50	-0.05	297	7.409	3284.23	353.51	-0.16	297
7.305	358.50	-0.06	293	7.409	3289.23	358.51	-0.16	293
7.293	363.50	-0.05	289	7.397	3294.23	363.51	-0.15	289
7.305	368.50	-0.06	285	7.397	3299.23	368.51	-0.15	285
7.316	373.50	-0.07	282	7.409	3304.23	373.51	-0.16	282
7.305	378.50	-0.06	278	7.409	3309.23	378.51	-0.16	278
7.305	383.50	-0.06	274	7.397	3314.23	383.51	-0.15	274
7.305	388.50	-0.06	271	7.409	3319.23	388.51	-0.16	271
7.305	393.50	-0.06	267	7.409	3324.23	393.51	-0.16	267
7.305	398.50	-0.06	264	7.409	3329.23	398.51	-0.16	264
7.305	403.50	-0.06	261	7.409	3334.23	403.51	-0.16	261
7.305	408.50	-0.06	257	7.409	3339.23	408.51	-0.16	257
7.305	413.50	-0.06	254	7.409	3344.23	413.51	-0.16	254
7.305	428.50	-0.06	245	7.397	3359.23	428.51	-0.15	245
7.293	443.50	-0.05	237	7.397	3374.23	443.51	-0.15	237
7.293	458.50	-0.05	229	7.409	3389.23	458.51	-0.16	229
7.293	473.50	-0.05	222	7.397	3404.23	473.51	-0.15	222
7.305	488.50	-0.06	215	7.397	3419.23	488.51	-0.15	215
7.305	503.50	-0.06	209	7.397	3434.23	503.51	-0.15	209
7.316	518.50	-0.07	203	7.397	3449.23	518.51	-0.15	203
7.316	533.50	-0.07	197	7.397	3464.23	533.51	-0.15	197
7.316	548.50	-0.07	192	7.397	3479.23	548.51	-0.15	192
7.316	563.50	-0.07	187	7.409	3494.23	563.51	-0.16	187
7.316	578.50	-0.07	182	7.397	3509.23	578.51	-0.15	182
7.328	593.50	-0.08	177	7.409	3524.23	593.51	-0.16	177
7.316	608.50	-0.07	173	7.409	3539.23	608.51	-0.16	173
7.328	623.50	-0.08	169	7.42	3554.23	623.51	-0.17	169
7.328	638.50	-0.08	165	7.42	3569.23	638.51	-0.17	165
7.351	653.50	-0.10	161	7.409	3584.23	653.51	-0.16	161
7.351	668.50	-0.10	157	7.409	3599.23	668.52	-0.16	157
7.351	683.50	-0.10	154	7.42	3614.23	683.52	-0.17	154
7.351	698.50	-0.10	151	7.409	3629.23	698.52	-0.16	151
7.351	713.50	-0.10	147	7.42	3644.23	713.52	-0.17	147
7.351	728.50	-0.10	144	7.42	3659.23	728.52	-0.17	144
7.339	743.50	-0.09	141	7.432	3674.23	743.52	-0.19	141
7.351	758.50	-0.10	139	7.432	3689.23	758.52	-0.19	139
7.351	773.50	-0.10	136	7.432	3704.23	773.52	-0.19	136
7.351	788.50	-0.10	133	7.432	3719.23	788.52	-0.19	133
7.351	803.50	-0.10	131	7.432	3734.23	803.52	-0.19	131

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RECOVERY

Head	PUMPING			Head	RECOVERY			
	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)		Total Elapsed Time (min.)	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
7.363	818.50	-0.12	128	7.443	3749.23	818.52	-0.20	128
7.363	833.50	-0.12	126	7.443	3764.23	833.52	-0.20	126
7.363	848.50	-0.12	124	7.443	3779.23	848.52	-0.20	124
7.363	863.50	-0.12	122	7.443	3794.23	863.52	-0.20	122
7.374	878.50	-0.13	120	7.443	3809.23	878.52	-0.20	120
7.363	893.50	-0.12	118	7.443	3824.23	893.52	-0.20	118
7.363	908.50	-0.12	116	7.443	3839.23	908.52	-0.20	116
7.363	923.50	-0.12	114	7.455	3854.23	923.52	-0.21	114
7.363	938.50	-0.12	112	7.455	3869.23	938.52	-0.21	112
7.363	953.50	-0.12	110	7.443	3884.23	953.52	-0.20	110
7.363	968.50	-0.12	109	7.443	3899.23	968.52	-0.20	109
7.351	983.50	-0.10	107	7.443	3914.23	983.52	-0.20	107
7.351	998.50	-0.10	105	7.432	3929.23	998.52	-0.19	105
7.339	1013.50	-0.09	104	7.409	3944.23	1013.52	-0.16	104
7.328	1028.50	-0.08	102	7.397	3959.23	1028.52	-0.15	102
7.339	1043.50	-0.09	101	7.374	3974.23	1043.52	-0.13	101
7.316	1058.50	-0.07	99	7.374	3989.23	1058.52	-0.13	99
7.305	1073.50	-0.06	98	7.363	4004.23	1073.52	-0.12	98
7.305	1088.50	-0.06	97	7.351	4019.23	1088.52	-0.10	97
7.293	1103.50	-0.05	95	7.339	4034.23	1103.52	-0.09	95
7.282	1118.50	-0.04	94	7.339	4049.23	1118.52	-0.09	94
7.455	1139.47	-0.21	92	7.339	4064.23	1133.52	-0.09	93
7.27	1154.47	-0.02	91	7.328	4079.23	1148.52	-0.08	92
7.259	1169.47	-0.01	90	7.316	4094.23	1163.52	-0.07	90
7.224	1184.47	0.02	89	7.328	4109.23	1178.52	-0.08	89
7.236	1199.47	0.01	88	7.305	4124.23	1193.52	-0.06	88
7.213	1214.47	0.03	87	7.316	4139.23	1208.52	-0.07	87
7.213	1229.47	0.03	86	7.293	4154.23	1223.52	-0.05	86
7.213	1244.47	0.03	85	7.305	4169.23	1238.52	-0.06	85
7.189	1259.47	0.06	83	7.293	4184.23	1253.52	-0.05	84
7.166	1274.47	0.08	83	7.305	4199.23	1268.52	-0.06	83
7.155	1289.47	0.09	82	7.282	4214.23	1283.52	-0.04	82
7.143	1304.47	0.10	81	7.27	4229.23	1298.51	-0.02	81
7.143	1319.47	0.10	80	7.27	4244.23	1313.51	-0.02	80
7.143	1334.47	0.10	79	7.27	4259.23	1328.51	-0.02	79
7.132	1349.47	0.12	78	7.27	4274.23	1343.51	-0.02	78
7.132	1364.47	0.12	77	7.259	4289.23	1358.51	-0.01	77
7.12	1379.47	0.13	76	7.27	4304.23	1373.51	-0.02	77
7.12	1394.47	0.13	75	7.27	4319.23	1388.51	-0.02	76
7.12	1409.47	0.13	75	7.27	4334.23	1403.51	-0.02	75
7.109	1424.47	0.14	74	7.282	4349.23	1418.51	-0.04	74
7.12	1439.47	0.13	73	7.27	4364.23	1433.51	-0.02	73
7.12	1454.47	0.13	72	7.27	4379.23	1448.51	-0.02	73
7.12	1469.47	0.13	72	7.293	4394.23	1463.51	-0.05	72
7.12	1484.47	0.13	71	7.293	4409.23	1478.51	-0.05	71

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7.132	1499.47	0.12		70	7.293	4424.23	1493.51	-0.05
7.143	1514.47	0.10		69	7.282	4439.23	1508.51	-0.04
7.143	1529.47	0.10		69	7.282	4454.23	1523.51	-0.04
7.155	1544.47	0.09		68	7.293	4469.23	1538.51	-0.05
7.166	1559.47	0.08		67	7.293	4484.23	1553.51	-0.05
7.166	1574.47	0.08		67	7.305	4499.23	1568.51	-0.06
7.178	1589.47	0.07		66	7.293	4514.23	1583.51	-0.05
7.189	1604.47	0.06		66	7.316	4529.23	1598.51	-0.07
7.189	1619.47	0.06		65	7.316	4544.23	1613.51	-0.07
7.213	1634.47	0.03		64	7.305	4559.23	1628.51	-0.06
7.213	1649.47	0.03		64	7.316	4574.23	1643.51	-0.07
7.224	1664.47	0.02		63	7.316	4589.23	1658.51	-0.07
7.236	1679.47	0.01		63	7.328	4604.23	1673.51	-0.08
7.236	1694.47	0.01		62	7.316	4619.23	1688.51	-0.07
7.247	1709.47	0.00		62	7.328	4634.23	1703.51	-0.08
7.259	1724.47	-0.01		61	7.339	4649.23	1718.51	-0.09
7.247	1739.47	0.00		60	7.339	4664.23	1733.51	-0.09
7.259	1754.47	-0.01		60	7.339	4679.23	1748.51	-0.09
7.27	1769.47	-0.02		59	7.351	4694.23	1763.51	-0.10
7.259	1784.47	-0.01		59	7.351	4709.23	1778.51	-0.10
7.282	1799.47	-0.04		58	7.351	4724.23	1793.51	-0.10
7.27	1814.47	-0.02		58	7.363	4739.23	1808.51	-0.12
7.282	1829.47	-0.04		57	7.351	4754.23	1823.51	-0.10
7.293	1844.47	-0.05		57	7.363	4769.23	1838.51	-0.12
7.282	1874.47	-0.04		56	7.363	4799.23	1868.51	-0.12
7.305	1904.47	-0.06		55	7.363	4829.23	1898.51	-0.12
7.305	1934.47	-0.06		54	7.363	4859.23	1928.51	-0.12
7.305	1964.47	-0.06		54	7.363	4889.23	1958.51	-0.12
7.305	1994.47	-0.06		53	7.363	4919.23	1988.51	-0.12
7.305	2024.47	-0.06		52	7.363	4949.23	2018.51	-0.12
7.305	2054.47	-0.06		51	7.363	4979.23	2048.51	-0.12
7.316	2084.47	-0.07		50	7.351	5009.23	2078.51	-0.10
7.316	2114.47	-0.07		50	7.351	5039.23	2108.51	-0.10
7.316	2144.47	-0.07		49	7.363	5069.23	2138.51	-0.12
7.305	2174.47	-0.06		48	7.374	5099.23	2168.51	-0.13
7.316	2204.47	-0.07		48	7.351	5129.23	2198.51	-0.10
7.316	2234.47	-0.07		47	7.363	5159.23	2228.51	-0.12
7.316	2264.47	-0.07		46	7.374	5189.23	2258.51	-0.13
7.328	2294.47	-0.08		46	7.397	5219.23	2288.51	-0.15
7.328	2324.47	-0.08		45	7.397	5249.23	2318.51	-0.15
7.328	2354.47	-0.08		45	7.397	5279.23	2348.51	-0.15
7.316	2384.47	-0.07		44	7.409	5309.23	2378.51	-0.16
7.328	2414.47	-0.08		44	7.42	5339.23	2408.51	-0.17
7.316	2444.47	-0.07		43	7.409	5369.23	2438.51	-0.16
7.316	2474.47	-0.07		43	7.397	5399.23	2468.51	-0.15

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7.293	2504.47	-0.05		42	7.409	5429.23	2498.51	-0.16	42
7.27	2534.47	-0.02		41	7.432	5459.23	2528.51	-0.19	42
7.247	2564.47	0.00		41	7.443	5489.23	2558.51	-0.20	41
7.236	2594.47	0.01		41	7.432	5519.23	2588.51	-0.19	41
7.213	2624.47	0.03		40	7.432	5549.23	2618.51	-0.19	40
7.189	2654.47	0.06		40	7.42	5579.23	2648.51	-0.17	40
7.178	2684.47	0.07		39	7.42	5609.23	2678.51	-0.17	39
7.155	2714.47	0.09		39					
7.143	2744.47	0.10		38					
7.12	2774.47	0.13		38					
7.097	2804.47	0.15		37					
7.086	2834.47	0.16		37					
7.074	2864.47	0.17		37					
7.086	2894.47	0.16		36					
7.282	2919.30	-0.04		36					
7.247	2919.48	0.00		36					
7.236	2919.65	0.01		36					
7.236	2919.82	0.01		36					
7.247	2919.98	0.00		36					
7.236	2920.15	0.01		36					
7.236	2920.32	0.01		36					
7.247	2920.48	0.00		36					
7.247	2920.65	0.00		36					
7.247	2920.82	0.00		36					
7.247	2920.98	0.00		36					
7.247	2921.15	0.00		36					
7.247	2921.32	0.00		36					
7.247	2921.48	0.00		36					
7.247	2921.65	0.00		36					
7.247	2921.82	0.00		36					
7.247	2921.98	0.00		36					
7.247	2922.15	0.00		36					
7.247	2922.32	0.00		36					
7.236	2922.48	0.01		36					
7.247	2922.65	0.00		36					
7.247	2922.82	0.00		36					
7.247	2922.98	0.00		36					
7.247	2923.15	0.00		36					
7.247	2923.32	0.00		36					
7.247	2923.48	0.00		36					
7.247	2923.65	0.00		36					
7.247	2923.82	0.00		36					
7.247	2923.98	0.00		36					
7.247	2924.15	0.00		36					
7.247	2924.32	0.00		36					

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7.236	2924.48	0.01	36					
7.247	2924.65	0.00	36					
7.247	2924.82	0.00	36					
7.236	2924.98	0.01	36					
7.247	2925.15	0.00	36					
7.247	2925.32	0.00	36					
7.247	2925.48	0.00	36					
7.247	2925.65	0.00	36					
7.247	2925.82	0.00	36					
7.247	2925.98	0.00	36					
7.247	2926.15	0.00	36					
7.247	2926.32	0.00	36					
7.247	2926.48	0.00	36					
7.247	2926.65	0.00	36					
7.247	2926.82	0.00	36					
7.259	2926.98	-0.01	36					
7.259	2927.15	-0.01	36					
7.247	2927.32	0.00	36					
7.247	2927.48	0.00	36					
7.259	2927.65	-0.01	36					
7.247	2927.82	0.00	36					
7.247	2927.98	0.00	36					
7.247	2928.15	0.00	36					
7.247	2928.32	0.00	36					
7.259	2928.48	-0.01	36					
7.259	2928.65	-0.01	36					
7.259	2928.82	-0.01	36					
7.259	2928.98	-0.01	36					
7.247	2929.15	0.00	36					
7.247	2929.32	0.00	36					
7.236	2929.82	0.01	36					

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PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)

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PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
13.363	0.00	0.00	--	13.756	2930.72	0.00	-0.39	--
13.271	0.17	0.09	642654	13.663	2930.90	0.18	-0.30	589591
13.271	0.33	0.09	321327	13.663	2931.07	0.35	-0.30	307490
13.248	0.50	0.12	214218	13.64	2931.23	0.51	-0.28	207979
13.248	0.67	0.12	160664	13.64	2931.40	0.68	-0.28	157128
13.248	0.83	0.12	128531	13.64	2931.57	0.85	-0.28	126258
13.248	1.00	0.12	107109	13.64	2931.73	1.01	-0.28	105526
13.248	1.17	0.12	91808	13.64	2931.90	1.18	-0.28	90642
13.248	1.33	0.12	80332	13.64	2932.07	1.35	-0.28	79438
13.248	1.50	0.12	71406	13.64	2932.23	1.51	-0.28	70699
13.271	1.67	0.09	64265	13.64	2932.40	1.68	-0.28	63692
13.248	1.83	0.12	58423	13.64	2932.57	1.85	-0.28	57949
13.271	2.00	0.09	53555	13.64	2932.73	2.01	-0.28	53156
13.271	2.17	0.09	49435	13.64	2932.90	2.18	-0.28	49095
13.271	2.33	0.09	45904	13.64	2933.07	2.35	-0.28	45611
13.271	2.50	0.09	42844	13.64	2933.23	2.51	-0.28	42588
13.271	2.67	0.09	40166	13.64	2933.40	2.68	-0.28	39941
13.271	2.83	0.09	37803	13.64	2933.57	2.85	-0.28	37604
13.271	3.00	0.09	35703	13.64	2933.73	3.01	-0.28	35525
13.271	3.17	0.09	33824	13.64	2933.90	3.18	-0.28	33664
13.271	3.33	0.09	32133	13.64	2934.07	3.35	-0.28	31989
13.294	3.50	0.07	30603	13.64	2934.23	3.51	-0.28	30472
13.294	3.67	0.07	29212	13.663	2934.40	3.68	-0.30	29093
13.271	3.83	0.09	27941	13.64	2934.57	3.85	-0.28	27833
13.294	4.00	0.07	26777	13.64	2934.73	4.01	-0.28	26677
13.294	4.17	0.07	25706	13.64	2934.90	4.18	-0.28	25614
13.317	4.33	0.05	24717	13.64	2935.07	4.35	-0.28	24632
13.294	4.50	0.07	23802	13.64	2935.23	4.51	-0.28	23723
13.317	4.67	0.05	22952	13.64	2935.40	4.68	-0.28	22878
13.294	4.83	0.07	22160	13.663	2935.57	4.85	-0.30	22092
13.317	5.00	0.05	21422	13.64	2935.73	5.01	-0.28	21358
13.317	5.17	0.05	20731	13.663	2935.90	5.18	-0.30	20671
13.317	5.33	0.05	20083	13.663	2936.07	5.35	-0.30	20027
13.317	5.50	0.05	19474	13.663	2936.23	5.51	-0.30	19421

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PUMPING				RECOVERY				
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13.317	5.67	0.05	18902	13.663	2936.40	5.68	-0.30	18852
13.34	5.83	0.02	18362	13.64	2936.57	5.85	-0.28	18314
13.317	6.00	0.05	17852	13.64	2936.73	6.01	-0.28	17807
13.317	6.17	0.05	17369	13.64	2936.90	6.18	-0.28	17327
13.34	6.33	0.02	16912	13.64	2937.07	6.35	-0.28	16872
13.317	6.50	0.05	16478	13.64	2937.23	6.51	-0.28	16440
13.34	6.67	0.02	16066	13.663	2937.40	6.68	-0.30	16030
13.34	6.83	0.02	15674	13.663	2937.57	6.85	-0.30	15640
13.34	7.00	0.02	15301	13.663	2937.73	7.01	-0.30	15269
13.363	7.17	0.00	14945	13.663	2937.90	7.18	-0.30	14914
13.363	7.33	0.00	14606	13.64	2938.07	7.35	-0.28	14576
13.363	7.50	0.00	14281	13.663	2938.23	7.51	-0.30	14253
13.34	7.67	0.02	13971	13.64	2938.40	7.68	-0.28	13943
13.34	7.83	0.02	13673	13.663	2938.57	7.85	-0.30	13647
13.34	8.00	0.02	13389	13.663	2938.73	8.01	-0.30	13364
13.363	8.17	0.00	13115	13.663	2938.90	8.18	-0.30	13091
13.34	8.33	0.02	12853	13.64	2939.07	8.35	-0.28	12830
13.34	8.50	0.02	12601	13.663	2939.23	8.51	-0.30	12579
13.34	8.67	0.02	12359	13.663	2939.40	8.68	-0.30	12337
13.34	8.83	0.02	12126	13.663	2939.57	8.85	-0.30	12105
13.34	9.00	0.02	11901	13.64	2939.73	9.01	-0.28	11881
13.363	9.17	0.00	11685	13.663	2939.90	9.18	-0.30	11666
13.34	9.33	0.02	11476	13.663	2940.07	9.35	-0.30	11458
13.363	9.50	0.00	11275	13.663	2940.23	9.51	-0.30	11257
13.34	9.67	0.02	11080	13.663	2940.40	9.68	-0.30	11063
13.363	9.83	0.00	10892	13.663	2940.57	9.85	-0.30	10876
13.34	10.00	0.02	10711	13.663	2940.73	10.01	-0.30	10695
13.271	10.50	0.09	10201	13.594	2941.23	10.51	-0.23	10186
13.248	11.00	0.12	9737	13.571	2941.73	11.01	-0.21	9724
13.248	11.50	0.12	9314	13.548	2942.23	11.51	-0.19	9302
13.225	12.00	0.14	8926	13.571	2942.73	12.01	-0.21	8915
13.225	12.50	0.14	8569	13.548	2943.23	12.51	-0.19	8558
13.225	13.00	0.14	8239	13.548	2943.73	13.01	-0.19	8230
13.225	13.50	0.14	7934	13.548	2944.23	13.51	-0.19	7925
13.248	14.00	0.12	7651	13.548	2944.73	14.01	-0.19	7642
13.225	14.50	0.14	7387	13.548	2945.23	14.51	-0.19	7379
13.225	15.00	0.14	7141	13.548	2945.73	15.01	-0.19	7133
13.225	15.50	0.14	6910	13.548	2946.23	15.51	-0.19	6904
13.225	16.00	0.14	6694	13.548	2946.73	16.01	-0.19	6688
13.225	16.50	0.14	6491	13.548	2947.23	16.51	-0.19	6486
13.225	17.00	0.14	6301	13.571	2947.73	17.01	-0.21	6295
13.248	17.50	0.12	6121	13.571	2948.23	17.51	-0.21	6115
13.248	18.00	0.12	5951	13.548	2948.73	18.01	-0.19	5946
13.248	18.50	0.12	5790	13.571	2949.23	18.51	-0.21	5785
13.225	19.00	0.14	5637	13.571	2949.73	19.01	-0.21	5633

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13.225	19.50	0.14	5493	13.594	2950.23	19.51	-0.23	5489
13.248	20.00	0.12	5355	13.571	2950.73	20.01	-0.21	5351
13.248	20.50	0.12	5225	13.571	2951.23	20.51	-0.21	5221
13.248	21.00	0.12	5100	13.571	2951.73	21.01	-0.21	5097
13.271	21.50	0.09	4982	13.594	2952.23	21.51	-0.23	4978
13.248	22.00	0.12	4869	13.571	2952.73	22.01	-0.21	4865
13.248	22.50	0.12	4760	13.571	2953.23	22.51	-0.21	4757
13.248	23.00	0.12	4657	13.571	2953.73	23.01	-0.21	4654
13.248	23.50	0.12	4558	13.594	2954.23	23.51	-0.23	4555
13.248	24.00	0.12	4463	13.594	2954.73	24.01	-0.23	4460
13.248	24.50	0.12	4372	13.594	2955.23	24.51	-0.23	4369
13.248	25.00	0.12	4284	13.594	2955.73	25.01	-0.23	4282
13.248	25.50	0.12	4200	13.594	2956.23	25.51	-0.23	4198
13.248	26.00	0.12	4120	13.594	2956.73	26.01	-0.23	4117
13.248	26.50	0.12	4042	13.594	2957.23	26.51	-0.23	4040
13.248	27.00	0.12	3967	13.617	2957.73	27.01	-0.25	3965
13.271	27.50	0.09	3895	13.617	2958.23	27.51	-0.25	3893
13.271	28.00	0.09	3825	13.617	2958.73	28.01	-0.25	3823
13.271	28.50	0.09	3758	13.594	2959.23	28.51	-0.23	3756
13.248	29.00	0.12	3693	13.617	2959.73	29.01	-0.25	3692
13.248	29.50	0.12	3631	13.617	2960.23	29.51	-0.25	3629
13.248	30.00	0.12	3570	13.617	2960.73	30.01	-0.25	3569
13.248	30.50	0.12	3512	13.64	2961.23	30.51	-0.28	3510
13.271	31.00	0.09	3455	13.594	2961.73	31.01	-0.23	3453
13.248	31.50	0.12	3400	13.617	2962.23	31.51	-0.25	3399
13.271	32.00	0.09	3347	13.617	2962.73	32.01	-0.25	3346
13.248	32.50	0.12	3296	13.617	2963.23	32.51	-0.25	3294
13.271	33.00	0.09	3246	13.64	2963.73	33.01	-0.28	3244
13.271	33.50	0.09	3197	13.617	2964.23	33.51	-0.25	3196
13.248	34.00	0.12	3150	13.64	2964.73	34.01	-0.28	3149
13.248	34.50	0.12	3105	13.64	2965.23	34.51	-0.28	3103
13.271	35.00	0.09	3060	13.617	2965.73	35.01	-0.25	3059
13.248	35.50	0.12	3017	13.64	2966.23	35.51	-0.28	3016
13.248	36.00	0.12	2975	13.64	2966.73	36.01	-0.28	2974
13.271	36.50	0.09	2934	13.64	2967.23	36.51	-0.28	2933
13.271	37.00	0.09	2895	13.64	2967.73	37.01	-0.28	2894
13.271	37.50	0.09	2856	13.64	2968.23	37.51	-0.28	2855
13.248	38.00	0.12	2819	13.64	2968.73	38.01	-0.28	2818
13.248	38.50	0.12	2782	13.64	2969.23	38.51	-0.28	2781
13.271	39.00	0.09	2746	13.663	2969.73	39.01	-0.30	2745
13.271	39.50	0.09	2712	13.663	2970.23	39.51	-0.30	2711
13.248	40.00	0.12	2678	13.663	2970.73	40.01	-0.30	2677
13.271	40.50	0.09	2645	13.663	2971.23	40.51	-0.30	2644
13.271	41.00	0.09	2612	13.663	2971.73	41.01	-0.30	2611
13.271	41.50	0.09	2581	13.686	2972.23	41.51	-0.32	2580

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Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
13.248	42.00	0.12	2550	13.663	2972.73	42.01	-0.30	2549
13.248	42.50	0.12	2520	13.663	2973.23	42.51	-0.30	2519
13.248	43.00	0.12	2491	13.663	2973.73	43.01	-0.30	2490
13.271	43.50	0.09	2462	13.686	2974.23	43.51	-0.32	2461
13.271	44.00	0.09	2434	13.663	2974.73	44.01	-0.30	2433
13.248	44.50	0.12	2407	13.686	2975.23	44.51	-0.32	2406
13.271	45.00	0.09	2380	13.686	2975.73	45.01	-0.32	2379
13.271	45.50	0.09	2354	13.686	2976.23	45.51	-0.32	2353
13.271	46.00	0.09	2328	13.686	2976.73	46.01	-0.32	2328
13.271	46.50	0.09	2303	13.686	2977.23	46.51	-0.32	2303
13.271	47.00	0.09	2279	13.686	2977.73	47.01	-0.32	2278
13.271	47.50	0.09	2255	13.686	2978.23	47.51	-0.32	2254
13.271	48.00	0.09	2231	13.686	2978.73	48.01	-0.32	2231
13.271	48.50	0.09	2208	13.686	2979.23	48.51	-0.32	2208
13.271	49.00	0.09	2186	13.686	2979.73	49.01	-0.32	2185
13.271	49.50	0.09	2164	13.686	2980.23	49.51	-0.32	2163
13.271	50.00	0.09	2142	13.686	2980.73	50.01	-0.32	2142
13.271	50.50	0.09	2121	13.686	2981.23	50.51	-0.32	2120
13.271	51.00	0.09	2100	13.686	2981.73	51.01	-0.32	2100
13.271	51.50	0.09	2080	13.71	2982.23	51.51	-0.35	2079
13.271	52.00	0.09	2060	13.71	2982.73	52.01	-0.35	2059
13.271	52.50	0.09	2040	13.686	2983.23	52.51	-0.32	2040
13.271	53.00	0.09	2021	13.686	2983.73	53.01	-0.32	2020
13.271	53.50	0.09	2002	13.71	2984.23	53.51	-0.35	2001
13.271	54.00	0.09	1984	13.686	2984.73	54.01	-0.32	1983
13.294	54.50	0.07	1965	13.71	2985.23	54.51	-0.35	1965
13.271	55.00	0.09	1947	13.71	2985.73	55.01	-0.35	1947
13.271	55.50	0.09	1930	13.71	2986.23	55.51	-0.35	1929
13.271	56.00	0.09	1913	13.71	2986.73	56.01	-0.35	1912
13.271	56.50	0.09	1896	13.71	2987.23	56.51	-0.35	1895
13.271	57.00	0.09	1879	13.71	2987.73	57.01	-0.35	1879
13.271	57.50	0.09	1863	13.71	2988.23	57.51	-0.35	1862
13.271	58.00	0.09	1847	13.71	2988.73	58.01	-0.35	1846
13.271	58.50	0.09	1831	13.733	2989.23	58.51	-0.37	1830
13.294	59.00	0.07	1815	13.71	2989.73	59.01	-0.35	1815
13.294	59.50	0.07	1800	13.71	2990.23	59.51	-0.35	1800
13.248	60.50	0.12	1770	13.686	2991.23	60.51	-0.32	1770
13.248	61.50	0.12	1742	13.686	2992.23	61.51	-0.32	1741
13.225	62.50	0.14	1714	13.663	2993.23	62.51	-0.30	1713
13.248	63.50	0.12	1687	13.686	2994.23	63.51	-0.32	1686
13.225	64.50	0.14	1661	13.663	2995.23	64.51	-0.30	1660
13.248	65.50	0.12	1635	13.663	2996.23	65.51	-0.30	1635
13.248	66.50	0.12	1611	13.663	2997.23	66.51	-0.30	1610
13.248	67.50	0.12	1587	13.663	2998.23	67.51	-0.30	1586
13.248	68.50	0.12	1564	13.663	2999.23	68.51	-0.30	1563

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13.248	69.50	0.12	1541	13.663	3000.23	69.51	-0.30	1541
13.248	70.50	0.12	1519	13.686	3001.23	70.51	-0.32	1519
13.271	71.50	0.09	1498	13.686	3002.23	71.51	-0.32	1498
13.271	72.50	0.09	1477	13.686	3003.23	72.51	-0.32	1477
13.248	73.50	0.12	1457	13.686	3004.23	73.51	-0.32	1457
13.248	74.50	0.12	1438	13.686	3005.23	74.51	-0.32	1437
13.248	75.50	0.12	1419	13.686	3006.23	75.51	-0.32	1418
13.248	76.50	0.12	1400	13.71	3007.23	76.51	-0.35	1400
13.271	77.50	0.09	1382	13.686	3008.23	77.51	-0.32	1382
13.248	78.50	0.12	1364	13.71	3009.23	78.51	-0.35	1364
13.271	79.50	0.09	1347	13.686	3010.23	79.51	-0.32	1347
13.248	80.50	0.12	1331	13.686	3011.23	80.51	-0.32	1330
13.248	81.50	0.12	1314	13.686	3012.23	81.51	-0.32	1314
13.271	82.50	0.09	1298	13.71	3013.23	82.51	-0.35	1298
13.271	83.50	0.09	1283	13.71	3014.23	83.51	-0.35	1283
13.271	84.50	0.09	1268	13.686	3015.23	84.51	-0.32	1267
13.271	85.50	0.09	1253	13.71	3016.23	85.51	-0.35	1253
13.271	86.50	0.09	1238	13.686	3017.23	86.51	-0.32	1238
13.271	87.50	0.09	1224	13.71	3018.23	87.51	-0.35	1224
13.271	88.50	0.09	1210	13.71	3019.23	88.51	-0.35	1210
13.271	89.50	0.09	1197	13.71	3020.23	89.51	-0.35	1197
13.271	90.50	0.09	1184	13.71	3021.23	90.51	-0.35	1183
13.294	91.50	0.07	1171	13.686	3022.23	91.51	-0.32	1170
13.294	92.50	0.07	1158	13.71	3023.23	92.51	-0.35	1158
13.294	93.50	0.07	1146	13.71	3024.23	93.51	-0.35	1145
13.294	94.50	0.07	1133	13.71	3025.23	94.51	-0.35	1133
13.294	95.50	0.07	1122	13.71	3026.23	95.51	-0.35	1121
13.294	96.50	0.07	1110	13.733	3027.23	96.51	-0.37	1110
13.317	97.50	0.05	1099	13.733	3028.23	97.51	-0.37	1098
13.294	98.50	0.07	1087	13.733	3029.23	98.51	-0.37	1087
13.317	99.50	0.05	1076	13.71	3030.23	99.51	-0.35	1076
13.317	100.50	0.05	1066	13.733	3031.23	100.51	-0.37	1066
13.294	101.50	0.07	1055	13.756	3032.23	101.51	-0.39	1055
13.317	102.50	0.05	1045	13.756	3033.23	102.51	-0.39	1045
13.317	103.50	0.05	1035	13.733	3034.23	103.51	-0.37	1035
13.317	104.50	0.05	1025	13.756	3035.23	104.51	-0.39	1025
13.294	105.50	0.07	1015	13.756	3036.23	105.51	-0.39	1015
13.317	106.50	0.05	1006	13.756	3037.23	106.51	-0.39	1006
13.317	107.50	0.05	996	13.756	3038.23	107.51	-0.39	996
13.317	108.50	0.05	987	13.756	3039.23	108.51	-0.39	987
13.317	109.50	0.05	978	13.756	3040.23	109.51	-0.39	978
13.317	110.50	0.05	969	13.756	3041.23	110.51	-0.39	969
13.34	111.50	0.02	961	13.779	3042.23	111.51	-0.42	960
13.34	112.50	0.02	952	13.779	3043.23	112.51	-0.42	952
13.317	113.50	0.05	944	13.779	3044.23	113.51	-0.42	944

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13.317	114.50	0.05	935	13.756	3045.23	114.51	-0.39	935
13.34	115.50	0.02	927	13.779	3046.23	115.51	-0.42	927
13.34	116.50	0.02	919	13.779	3047.23	116.51	-0.42	919
13.34	117.50	0.02	912	13.779	3048.23	117.51	-0.42	911
13.363	118.50	0.00	904	13.802	3049.23	118.51	-0.44	904
13.294	123.50	0.07	867	13.733	3054.23	123.51	-0.37	867
13.294	128.50	0.07	834	13.686	3059.23	128.51	-0.32	833
13.271	133.50	0.09	802	13.71	3064.23	133.51	-0.35	802
13.271	138.50	0.09	773	13.71	3069.23	138.51	-0.35	773
13.294	143.50	0.07	746	13.71	3074.23	143.51	-0.35	746
13.294	148.50	0.07	721	13.71	3079.23	148.51	-0.35	721
13.317	153.50	0.05	698	13.733	3084.23	153.51	-0.37	698
13.317	158.50	0.05	676	13.733	3089.23	158.51	-0.37	676
13.317	163.50	0.05	655	13.756	3094.23	163.51	-0.39	655
13.34	168.50	0.02	636	13.756	3099.23	168.51	-0.39	636
13.34	173.50	0.02	617	13.756	3104.23	173.51	-0.39	617
13.363	178.50	0.00	600	13.779	3109.23	178.51	-0.42	600
13.34	183.50	0.02	584	13.779	3114.23	183.51	-0.42	584
13.363	188.50	0.00	568	13.802	3119.23	188.51	-0.44	568
13.386	193.50	-0.02	554	13.802	3124.23	193.51	-0.44	553
13.363	198.50	0.00	540	13.802	3129.23	198.51	-0.44	540
13.386	203.50	-0.02	526	13.825	3134.23	203.51	-0.46	526
13.409	208.50	-0.05	514	13.825	3139.23	208.51	-0.46	514
13.409	213.50	-0.05	502	13.825	3144.23	213.51	-0.46	502
13.409	218.50	-0.05	490	13.848	3149.23	218.51	-0.49	490
13.409	223.50	-0.05	479	13.848	3154.23	223.51	-0.49	479
13.409	228.50	-0.05	469	13.871	3159.23	228.51	-0.51	469
13.433	233.50	-0.07	459	13.871	3164.23	233.51	-0.51	459
13.433	238.50	-0.07	449	13.871	3169.23	238.51	-0.51	449
13.456	243.50	-0.09	440	13.894	3174.23	243.51	-0.53	440
13.456	248.50	-0.09	431	13.894	3179.23	248.51	-0.53	431
13.456	253.50	-0.09	423	13.894	3184.23	253.51	-0.53	422
13.456	258.50	-0.09	414	13.917	3189.23	258.51	-0.55	414
13.479	263.50	-0.12	406	13.917	3194.23	263.51	-0.55	406
13.479	268.50	-0.12	399	13.917	3199.23	268.51	-0.55	399
13.479	273.50	-0.12	392	13.94	3204.23	273.51	-0.58	392
13.479	278.50	-0.12	385	13.94	3209.23	278.51	-0.58	385
13.479	283.50	-0.12	378	13.963	3214.23	283.51	-0.60	378
13.479	288.50	-0.12	371	13.963	3219.23	288.51	-0.60	371
13.502	293.50	-0.14	365	13.963	3224.23	293.51	-0.60	365
13.502	298.50	-0.14	359	13.94	3229.23	298.51	-0.58	359
13.479	303.50	-0.12	353	13.94	3234.23	303.51	-0.58	353
13.456	308.50	-0.09	347	13.94	3239.23	308.51	-0.58	347
13.502	313.50	-0.14	342	13.94	3244.23	313.51	-0.58	342
13.479	318.50	-0.12	336	13.94	3249.23	318.51	-0.58	336

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13.479	323.50	-0.12	331	13.94	3254.23	323.51	-0.58	331
13.479	328.50	-0.12	326	13.94	3259.23	328.51	-0.58	326
13.479	333.50	-0.12	321	13.94	3264.23	333.51	-0.58	321
13.502	338.50	-0.14	316	13.917	3269.23	338.51	-0.55	316
13.502	343.50	-0.14	312	13.917	3274.23	343.51	-0.55	312
13.502	348.50	-0.14	307	13.94	3279.23	348.51	-0.58	307
13.502	353.50	-0.14	303	13.94	3284.23	353.51	-0.58	303
13.502	358.50	-0.14	299	13.917	3289.23	358.51	-0.55	299
13.502	363.50	-0.14	295	13.917	3294.23	363.51	-0.55	295
13.502	368.50	-0.14	291	13.917	3299.23	368.51	-0.55	291
13.525	373.50	-0.16	287	13.917	3304.23	373.51	-0.55	287
13.502	378.50	-0.14	283	13.917	3309.23	378.51	-0.55	283
13.525	383.50	-0.16	279	13.917	3314.23	383.51	-0.55	279
13.525	388.50	-0.16	276	13.917	3319.23	388.51	-0.55	276
13.525	393.50	-0.16	272	13.917	3324.23	393.51	-0.55	272
13.525	398.50	-0.16	269	13.94	3329.23	398.51	-0.58	269
13.525	403.50	-0.16	265	13.94	3334.23	403.51	-0.58	265
13.525	408.50	-0.16	262	13.94	3339.23	408.51	-0.58	262
13.525	413.50	-0.16	259	13.917	3344.23	413.51	-0.55	259
13.502	428.50	-0.14	250	13.894	3359.23	428.51	-0.53	250
13.525	443.50	-0.16	242	13.894	3374.23	443.51	-0.53	242
13.525	458.50	-0.16	234	13.894	3389.23	458.51	-0.53	234
13.525	473.50	-0.16	226	13.871	3404.23	473.51	-0.51	226
13.548	488.50	-0.19	219	13.871	3419.23	488.51	-0.51	219
13.548	503.50	-0.19	213	13.871	3434.23	503.51	-0.51	213
13.548	518.50	-0.19	207	13.871	3449.23	518.51	-0.51	207
13.548	533.50	-0.19	201	13.871	3464.23	533.51	-0.51	201
13.548	548.50	-0.19	195	13.871	3479.23	548.51	-0.51	195
13.571	563.50	-0.21	190	13.894	3494.23	563.51	-0.53	190
13.571	578.50	-0.21	185	13.871	3509.23	578.51	-0.51	185
13.594	593.50	-0.23	180	13.871	3524.23	593.51	-0.51	180
13.594	608.50	-0.23	176	13.871	3539.23	608.51	-0.51	176
13.617	623.50	-0.25	172	13.894	3554.23	623.51	-0.53	172
13.617	638.50	-0.25	168	13.894	3569.23	638.51	-0.53	168
13.64	653.50	-0.28	164	13.894	3584.23	653.51	-0.53	164
13.663	668.50	-0.30	160	13.894	3599.23	668.52	-0.53	160
13.663	683.50	-0.30	157	13.917	3614.23	683.52	-0.55	157
13.663	698.50	-0.30	153	13.917	3629.23	698.52	-0.55	153
13.663	713.50	-0.30	150	13.894	3644.23	713.52	-0.53	150
13.686	728.50	-0.32	147	13.917	3659.23	728.52	-0.55	147
13.686	743.50	-0.32	144	13.94	3674.23	743.52	-0.58	144
13.663	758.50	-0.30	141	13.94	3689.23	758.52	-0.58	141
13.686	773.50	-0.32	138	13.94	3704.23	773.52	-0.58	138
13.686	788.50	-0.32	136	13.94	3719.23	788.52	-0.58	136
13.686	803.50	-0.32	133	13.963	3734.23	803.52	-0.60	133

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PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
13.686	818.50	-0.32	131	13.963	3749.23	818.52	-0.60	131
13.686	833.50	-0.32	129	13.963	3764.23	833.52	-0.60	129
13.733	848.50	-0.37	126	13.963	3779.23	848.52	-0.60	126
13.71	863.50	-0.35	124	13.986	3794.23	863.52	-0.62	124
13.733	878.50	-0.37	122	13.963	3809.23	878.52	-0.60	122
13.71	893.50	-0.35	120	13.963	3824.23	893.52	-0.60	120
13.733	908.50	-0.37	118	13.986	3839.23	908.52	-0.62	118
13.733	923.50	-0.37	116	13.963	3854.23	923.52	-0.60	116
13.71	938.50	-0.35	114	13.94	3869.23	938.52	-0.58	114
13.71	953.50	-0.35	112	13.94	3884.23	953.52	-0.58	112
13.71	968.50	-0.35	111	13.94	3899.23	968.52	-0.58	111
13.686	983.50	-0.32	109	13.917	3914.23	983.52	-0.55	109
13.686	998.50	-0.32	107	13.871	3929.23	998.52	-0.51	107
13.686	1013.50	-0.32	106	13.825	3944.23	1013.52	-0.46	106
13.663	1028.50	-0.30	104	13.779	3959.23	1028.52	-0.42	104
13.64	1043.50	-0.28	103	13.756	3974.23	1043.52	-0.39	103
13.617	1058.50	-0.25	101	13.71	3989.23	1058.52	-0.35	101
13.571	1073.50	-0.21	100	13.686	4004.23	1073.52	-0.32	100
13.571	1088.50	-0.21	98	13.663	4019.23	1088.52	-0.30	98
13.548	1103.50	-0.19	97	13.617	4034.23	1103.52	-0.25	97
13.502	1118.50	-0.14	96	13.617	4049.23	1118.52	-0.25	96
13.986	1139.47	-0.62	94	13.594	4064.23	1133.52	-0.23	94
13.479	1154.47	-0.12	93	13.594	4079.23	1148.52	-0.23	93
13.433	1169.47	-0.07	92	13.571	4094.23	1163.52	-0.21	92
13.409	1184.47	-0.05	90	13.571	4109.23	1178.52	-0.21	91
13.409	1199.47	-0.05	89	13.548	4124.23	1193.52	-0.19	90
13.363	1214.47	0.00	88	13.548	4139.23	1208.52	-0.19	89
13.34	1229.47	0.02	87	13.502	4154.23	1223.52	-0.14	88
13.34	1244.47	0.02	86	13.502	4169.23	1238.52	-0.14	86
13.317	1259.47	0.05	85	13.479	4184.23	1253.52	-0.12	85
13.294	1274.47	0.07	84	13.479	4199.23	1268.52	-0.12	84
13.248	1289.47	0.12	83	13.479	4214.23	1283.52	-0.12	83
13.225	1304.47	0.14	82	13.433	4229.23	1298.51	-0.07	82
13.225	1319.47	0.14	81	13.433	4244.23	1313.51	-0.07	82
13.202	1334.47	0.16	80	13.433	4259.23	1328.51	-0.07	81
13.202	1349.47	0.16	79	13.456	4274.23	1343.51	-0.09	80
13.202	1364.47	0.16	78	13.456	4289.23	1358.51	-0.09	79
13.202	1379.47	0.16	78	13.456	4304.23	1373.51	-0.09	78
13.179	1394.47	0.18	77	13.456	4319.23	1388.51	-0.09	77
13.179	1409.47	0.18	76	13.456	4334.23	1403.51	-0.09	76
13.179	1424.47	0.18	75	13.456	4349.23	1418.51	-0.09	76
13.179	1439.47	0.18	74	13.456	4364.23	1433.51	-0.09	75
13.202	1454.47	0.16	74	13.456	4379.23	1448.51	-0.09	74
13.225	1469.47	0.14	73	13.479	4394.23	1463.51	-0.12	73
13.225	1484.47	0.14	72	13.479	4409.23	1478.51	-0.12	72

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RECOVERY

Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
13.248	1499.47	0.12	71	13.479	4424.23	1493.51	-0.12	72
13.271	1514.47	0.09	71	13.479	4439.23	1508.51	-0.12	71
13.271	1529.47	0.09	70	13.502	4454.23	1523.51	-0.14	70
13.294	1544.47	0.07	69	13.502	4469.23	1538.51	-0.14	70
13.317	1559.47	0.05	69	13.479	4484.23	1553.51	-0.12	69
13.34	1574.47	0.02	68	13.525	4499.23	1568.51	-0.16	68
13.363	1589.47	0.00	67	13.525	4514.23	1583.51	-0.16	68
13.386	1604.47	-0.02	67	13.525	4529.23	1598.51	-0.16	67
13.386	1619.47	-0.02	66	13.525	4544.23	1613.51	-0.16	66
13.409	1634.47	-0.05	66	13.525	4559.23	1628.51	-0.16	66
13.433	1649.47	-0.07	65	13.548	4574.23	1643.51	-0.19	65
13.433	1664.47	-0.07	64	13.548	4589.23	1658.51	-0.19	65
13.479	1679.47	-0.12	64	13.571	4604.23	1673.51	-0.21	64
13.479	1694.47	-0.12	63	13.571	4619.23	1688.51	-0.21	63
13.502	1709.47	-0.14	63	13.571	4634.23	1703.51	-0.21	63
13.525	1724.47	-0.16	62	13.594	4649.23	1718.51	-0.23	62
13.525	1739.47	-0.16	62	13.594	4664.23	1733.51	-0.23	62
13.525	1754.47	-0.16	61	13.594	4679.23	1748.51	-0.23	61
13.548	1769.47	-0.19	61	13.617	4694.23	1763.51	-0.25	61
13.525	1784.47	-0.16	60	13.617	4709.23	1778.51	-0.25	60
13.571	1799.47	-0.21	60	13.617	4724.23	1793.51	-0.25	60
13.571	1814.47	-0.21	59	13.617	4739.23	1808.51	-0.25	59
13.594	1829.47	-0.23	59	13.594	4754.23	1823.51	-0.23	59
13.594	1844.47	-0.23	58	13.617	4769.23	1838.51	-0.25	58
13.594	1874.47	-0.23	57	13.617	4799.23	1868.51	-0.25	57
13.64	1904.47	-0.28	56	13.64	4829.23	1898.51	-0.28	56
13.64	1934.47	-0.28	55	13.617	4859.23	1928.51	-0.25	56
13.64	1964.47	-0.28	55	13.64	4889.23	1958.51	-0.28	55
13.663	1994.47	-0.30	54	13.617	4919.23	1988.51	-0.25	54
13.64	2024.47	-0.28	53	13.617	4949.23	2018.51	-0.25	53
13.663	2054.47	-0.30	52	13.617	4979.23	2048.51	-0.25	52
13.686	2084.47	-0.32	51	13.617	5009.23	2078.51	-0.25	52
13.71	2114.47	-0.35	51	13.617	5039.23	2108.51	-0.25	51
13.663	2144.47	-0.30	50	13.64	5069.23	2138.51	-0.28	50
13.686	2174.47	-0.32	49	13.663	5099.23	2168.51	-0.30	49
13.71	2204.47	-0.35	49	13.617	5129.23	2198.51	-0.25	49
13.71	2234.47	-0.35	48	13.64	5159.23	2228.51	-0.28	48
13.733	2264.47	-0.37	47	13.663	5189.23	2258.51	-0.30	47
13.733	2294.47	-0.37	47	13.71	5219.23	2288.51	-0.35	47
13.756	2324.47	-0.39	46	13.71	5249.23	2318.51	-0.35	46
13.733	2354.47	-0.37	45	13.71	5279.23	2348.51	-0.35	46
13.756	2384.47	-0.39	45	13.756	5309.23	2378.51	-0.39	45
13.756	2414.47	-0.39	44	13.756	5339.23	2408.51	-0.39	44
13.71	2444.47	-0.35	44	13.756	5369.23	2438.51	-0.39	44
13.686	2474.47	-0.32	43	13.756	5399.23	2468.51	-0.39	43

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PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
13.663	2504.47	-0.30	43	13.779	5429.23	2498.51	-0.42	43
13.594	2534.47	-0.23	42	13.802	5459.23	2528.51	-0.44	42
13.525	2564.47	-0.16	42	13.802	5489.23	2558.51	-0.44	42
13.479	2594.47	-0.12	41	13.802	5519.23	2588.51	-0.44	41
13.433	2624.47	-0.07	41	13.802	5549.23	2618.51	-0.44	41
13.409	2654.47	-0.05	40	13.779	5579.23	2648.51	-0.42	40
13.409	2684.47	-0.05	40	13.756	5609.23	2678.51	-0.39	40
13.317	2714.47	0.05	39					
13.294	2744.47	0.07	39					
13.248	2774.47	0.12	39					
13.225	2804.47	0.14	38					
13.225	2834.47	0.14	38					
13.179	2864.47	0.18	37					
13.179	2894.47	0.18	37					
13.71	2919.30	-0.35	37					
13.617	2919.48	-0.25	37					
13.571	2919.65	-0.21	37					
13.571	2919.82	-0.21	37					
13.571	2919.98	-0.21	37					
13.571	2920.15	-0.21	37					
13.571	2920.32	-0.21	37					
13.548	2920.48	-0.19	37					
13.571	2920.65	-0.21	37					
13.548	2920.82	-0.19	37					
13.571	2920.98	-0.21	37					
13.594	2921.15	-0.23	37					
13.571	2921.32	-0.21	37					
13.571	2921.48	-0.21	37					
13.594	2921.65	-0.23	37					
13.594	2921.82	-0.23	37					
13.594	2921.98	-0.23	37					
13.594	2922.15	-0.23	37					
13.594	2922.32	-0.23	37					
13.594	2922.48	-0.23	37					
13.594	2922.65	-0.23	37					
13.594	2922.82	-0.23	37					
13.594	2922.98	-0.23	37					
13.617	2923.15	-0.25	37					
13.594	2923.32	-0.23	37					
13.617	2923.48	-0.25	37					
13.594	2923.65	-0.23	37					
13.617	2923.82	-0.25	37					
13.594	2923.98	-0.23	37					
13.594	2924.15	-0.23	37					
13.617	2924.32	-0.25	37					

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RECOVERY

PUMPING				RECOVERY			
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	r ² /t (ft ² /min)
13.594	2924.48	-0.23	37				
13.617	2924.65	-0.25	37				
13.617	2924.82	-0.25	37				
13.617	2924.98	-0.25	37				
13.617	2925.15	-0.25	37				
13.594	2925.32	-0.23	37				
13.617	2925.48	-0.25	37				
13.617	2925.65	-0.25	37				
13.617	2925.82	-0.25	37				
13.617	2925.98	-0.25	37				
13.617	2926.15	-0.25	37				
13.617	2926.32	-0.25	37				
13.617	2926.48	-0.25	37				
13.617	2926.65	-0.25	37				
13.617	2926.82	-0.25	37				
13.617	2926.98	-0.25	37				
13.617	2927.15	-0.25	37				
13.64	2927.32	-0.28	37				
13.617	2927.48	-0.25	37				
13.617	2927.65	-0.25	37				
13.617	2927.82	-0.25	37				
13.617	2927.98	-0.25	37				
13.617	2928.15	-0.25	37				
13.64	2928.32	-0.28	37				
13.617	2928.48	-0.25	37				
13.617	2928.65	-0.25	37				
13.64	2928.82	-0.28	37				
13.617	2928.98	-0.25	37				
13.64	2929.15	-0.28	37				
13.617	2929.32	-0.25	37				
13.525	2929.82	-0.16	37				

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RECOVERY

Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
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MW-33 DATALOGGER DATA
November, 1991

PUMPING

RECOVERY

Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
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13-Nov-91	04:06:44 PM	7.8143	0.00	0.00	--	15-Nov-91	04:57:25 PM	7.3992	0.00	0.42	--
13-Nov-91	04:06:54 PM	7.8107	0.17	0.00	338022	15-Nov-91	04:57:29 PM	7.3776	0.08	0.44	726122
13-Nov-91	04:07:04 PM	7.8035	0.33	0.01	169011	15-Nov-91	04:57:35 PM	7.392	0.17	0.42	338022
13-Nov-91	04:07:14 PM	7.8035	0.50	0.01	112999	15-Nov-91	04:57:39 PM	7.4028	0.24	0.41	230651
13-Nov-91	04:07:24 PM	7.8035	0.67	0.01	84688	15-Nov-91	04:57:44 PM	7.3956	0.33	0.42	171976
13-Nov-91	04:07:34 PM	7.7963	0.83	0.02	67721	15-Nov-91	04:57:50 PM	7.392	0.42	0.42	135677
13-Nov-91	04:07:44 PM	7.8143	1.00	0.00	56418	15-Nov-91	04:57:54 PM	7.4028	0.50	0.41	113984
13-Nov-91	04:07:54 PM	7.8107	1.17	0.00	48408	15-Nov-91	04:58:00 PM	7.41	0.58	0.40	96816
13-Nov-91	04:08:04 PM	7.8035	1.33	0.01	42344	15-Nov-91	04:58:04 PM	7.4064	0.66	0.41	85426
13-Nov-91	04:08:14 PM	7.7963	1.50	0.02	37630	15-Nov-91	04:58:10 PM	7.3992	0.75	0.42	75260
13-Nov-91	04:08:24 PM	7.7963	1.67	0.02	33861	15-Nov-91	04:58:14 PM	7.4028	0.83	0.41	68192
13-Nov-91	04:08:34 PM	7.7818	1.83	0.03	30802	15-Nov-91	04:58:19 PM	7.392	0.91	0.42	61944
13-Nov-91	04:08:44 PM	7.7926	2.00	0.02	28229	15-Nov-91	04:58:25 PM	7.3848	1.00	0.43	56499
13-Nov-91	04:08:54 PM	7.789	2.17	0.03	26054	15-Nov-91	04:58:29 PM	7.392	1.08	0.42	52351
13-Nov-91	04:09:04 PM	7.7963	2.33	0.02	24189	15-Nov-91	04:58:35 PM	7.3812	1.17	0.43	48408
13-Nov-91	04:09:14 PM	7.789	2.50	0.03	22587	15-Nov-91	04:58:39 PM	7.3812	1.24	0.43	45383
13-Nov-91	04:09:24 PM	7.789	2.67	0.03	21172	15-Nov-91	04:58:45 PM	7.3812	1.33	0.43	42344
13-Nov-91	04:09:34 PM	7.7926	2.83	0.02	19924	15-Nov-91	04:58:49 PM	7.3812	1.41	0.43	40011
13-Nov-91	04:09:44 PM	7.7818	3.00	0.03	18815	15-Nov-91	04:58:54 PM	7.3812	1.49	0.43	37775
13-Nov-91	04:09:54 PM	7.7818	3.17	0.03	17831	15-Nov-91	04:59:00 PM	7.374	1.58	0.44	35678
13-Nov-91	04:10:04 PM	7.7746	3.33	0.04	16938	15-Nov-91	04:59:04 PM	7.3776	1.66	0.44	33978
13-Nov-91	04:10:14 PM	7.771	3.50	0.04	16129	15-Nov-91	04:59:10 PM	7.3812	1.75	0.43	32272
13-Nov-91	04:10:24 PM	7.7674	3.67	0.05	15395	15-Nov-91	04:59:14 PM	7.3812	1.83	0.43	30874
13-Nov-91	04:10:34 PM	7.7854	3.83	0.03	14730	15-Nov-91	04:59:20 PM	7.3812	1.92	0.43	29460
13-Nov-91	04:10:44 PM	7.7674	4.00	0.05	14115	15-Nov-91	04:59:24 PM	7.3667	1.99	0.45	28311
13-Nov-91	04:10:54 PM	7.7782	4.17	0.04	13549	15-Nov-91	04:59:29 PM	7.3667	2.08	0.45	27173
13-Nov-91	04:11:04 PM	7.7782	4.33	0.04	13031	15-Nov-91	04:59:35 PM	7.3631	2.17	0.45	26054
13-Nov-91	04:11:14 PM	7.7674	4.50	0.05	12547	15-Nov-91	04:59:39 PM	7.3776	2.24	0.44	25151
13-Nov-91	04:11:24 PM	7.771	4.67	0.04	12098	15-Nov-91	04:59:45 PM	7.3776	2.33	0.44	24204
13-Nov-91	04:11:34 PM	7.7818	4.83	0.03	11680	15-Nov-91	04:59:49 PM	7.3776	2.41	0.44	23409
13-Nov-91	04:11:44 PM	7.7746	5.00	0.04	11293	15-Nov-91	04:59:55 PM	7.3956	2.50	0.42	22587
13-Nov-91	04:11:54 PM	7.7638	5.17	0.05	10928	15-Nov-91	04:59:59 PM	7.4137	2.58	0.40	21905
13-Nov-91	04:12:04 PM	7.7602	5.33	0.05	10586	15-Nov-91	05:00:04 PM	7.4028	2.66	0.41	21218
13-Nov-91	04:12:14 PM	7.771	5.50	0.04	10265	15-Nov-91	05:00:10 PM	7.3992	2.75	0.42	20529
13-Nov-91	04:12:24 PM	7.7529	5.67	0.06	9965	15-Nov-91	05:00:14 PM	7.3848	2.83	0.43	19965
13-Nov-91	04:12:34 PM	7.7674	5.83	0.05	9679	15-Nov-91	05:00:20 PM	7.3956	2.92	0.42	19363

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Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
13-Nov-91	04:12:44 PM	7.7638	6.00	0.05	9410	15-Nov-91	05:00:24 PM	7.4028	3.00	0.41	18851
13-Nov-91	04:12:54 PM	7.7674	6.17	0.05	9155	15-Nov-91	05:00:30 PM	7.4028	3.08	0.41	18314
13-Nov-91	04:13:04 PM	7.7638	6.33	0.05	8916	15-Nov-91	05:00:34 PM	7.41	3.16	0.40	17864
13-Nov-91	04:13:14 PM	7.7674	6.50	0.05	8686	15-Nov-91	05:00:39 PM	7.41	3.24	0.40	17404
13-Nov-91	04:13:24 PM	7.7782	6.67	0.04	8469	15-Nov-91	05:00:45 PM	7.41	3.33	0.40	16938
13-Nov-91	04:13:34 PM	7.7457	6.83	0.07	8262	15-Nov-91	05:00:49 PM	7.3956	3.41	0.42	16552
13-Nov-91	04:13:44 PM	7.7782	7.00	0.04	8066	15-Nov-91	05:00:55 PM	7.4173	3.50	0.40	16136
13-Nov-91	04:13:54 PM	7.7565	7.17	0.06	7878	15-Nov-91	05:00:59 PM	7.4209	3.58	0.39	15779
13-Nov-91	04:14:04 PM	7.771	7.33	0.04	7699	15-Nov-91	05:01:05 PM	7.41	3.67	0.40	15401
13-Nov-91	04:14:14 PM	7.7493	7.50	0.07	7527	15-Nov-91	05:01:09 PM	7.4317	3.75	0.38	15075
13-Nov-91	04:14:24 PM	7.7602	7.67	0.05	7365	15-Nov-91	05:01:14 PM	7.4317	3.83	0.38	14752
13-Nov-91	04:14:34 PM	7.7638	7.83	0.05	7208	15-Nov-91	05:01:20 PM	7.4173	3.92	0.40	14416
13-Nov-91	04:14:44 PM	7.7674	8.00	0.05	7057	15-Nov-91	05:01:24 PM	7.4353	3.99	0.38	14135
13-Nov-91	04:14:54 PM	7.771	8.17	0.04	6913	15-Nov-91	05:01:30 PM	7.4317	4.08	0.38	13826
13-Nov-91	04:15:04 PM	7.7674	8.33	0.05	6776	15-Nov-91	05:01:34 PM	7.4209	4.16	0.39	13568
13-Nov-91	04:15:14 PM	7.7565	8.50	0.06	6642	15-Nov-91	05:01:40 PM	7.4353	4.25	0.38	13287
13-Nov-91	04:15:24 PM	7.7638	8.67	0.05	6514	15-Nov-91	05:01:44 PM	7.4317	4.33	0.38	13044
13-Nov-91	04:15:34 PM	7.7602	8.83	0.05	6392	15-Nov-91	05:01:49 PM	7.4281	4.41	0.39	12797
13-Nov-91	04:15:44 PM	7.7565	9.00	0.06	6274	15-Nov-91	05:01:55 PM	7.4245	4.50	0.39	12547
13-Nov-91	04:15:54 PM	7.7638	9.17	0.05	6159	15-Nov-91	05:01:59 PM	7.4209	4.58	0.39	12334
13-Nov-91	04:16:04 PM	7.7493	9.33	0.07	6049	15-Nov-91	05:02:05 PM	7.4317	4.67	0.38	12098
13-Nov-91	04:16:14 PM	7.7602	9.50	0.05	5944	15-Nov-91	05:02:09 PM	7.4245	4.74	0.39	11900
13-Nov-91	04:16:24 PM	7.7602	9.67	0.05	5841	15-Nov-91	05:02:15 PM	7.4317	4.84	0.38	11670
13-Nov-91	04:16:34 PM	7.7602	9.83	0.05	5742	15-Nov-91	05:02:19 PM	7.4317	4.91	0.38	11499
13-Nov-91	04:16:44 PM	7.7638	10.00	0.05	5646	15-Nov-91	05:02:24 PM	7.4281	5.00	0.39	11303
13-Nov-91	04:17:14 PM	7.7529	10.50	0.06	5377	15-Nov-91	05:02:30 PM	7.4389	5.08	0.38	11108
13-Nov-91	04:17:44 PM	7.7529	11.00	0.06	5133	15-Nov-91	05:02:34 PM	7.4173	5.16	0.40	10940
13-Nov-91	04:18:14 PM	7.7565	11.50	0.06	4910	15-Nov-91	05:02:40 PM	7.41	5.25	0.40	10754
13-Nov-91	04:18:44 PM	7.7493	12.00	0.07	4705	15-Nov-91	05:02:44 PM	7.4137	5.33	0.40	10597
13-Nov-91	04:19:14 PM	7.7638	12.50	0.05	4517	15-Nov-91	05:02:49 PM	7.4173	5.41	0.40	10434
13-Nov-91	04:19:44 PM	7.7565	13.00	0.06	4343	15-Nov-91	05:02:55 PM	7.4028	5.50	0.41	10267
13-Nov-91	04:20:14 PM	7.7529	13.50	0.06	4182	15-Nov-91	05:02:59 PM	7.4209	5.58	0.39	10121
13-Nov-91	04:20:44 PM	7.7421	14.00	0.07	4033	15-Nov-91	05:03:05 PM	7.4245	5.67	0.39	9965
13-Nov-91	04:21:14 PM	7.7421	14.50	0.07	3894	15-Nov-91	05:03:09 PM	7.4281	5.74	0.39	9830
13-Nov-91	04:21:44 PM	7.7457	15.00	0.07	3764	15-Nov-91	05:03:15 PM	7.4245	5.83	0.39	9679
13-Nov-91	04:22:14 PM	7.7529	15.50	0.06	3643	15-Nov-91	05:03:19 PM	7.4317	5.91	0.38	9552
13-Nov-91	04:22:44 PM	7.7565	16.00	0.06	3529	15-Nov-91	05:03:24 PM	7.4064	5.99	0.41	9419
13-Nov-91	04:23:14 PM	7.7349	16.50	0.08	3422	15-Nov-91	05:03:30 PM	7.4028	6.08	0.41	9283
13-Nov-91	04:23:44 PM	7.7493	17.00	0.07	3321	15-Nov-91	05:03:34 PM	7.4137	6.16	0.40	9163
13-Nov-91	04:24:14 PM	7.7529	17.50	0.06	3226	15-Nov-91	05:03:40 PM	7.4173	6.25	0.40	9035
13-Nov-91	04:24:44 PM	7.7457	18.00	0.07	3137	15-Nov-91	05:03:44 PM	7.4137	6.33	0.40	8922
13-Nov-91	04:25:14 PM	7.7493	18.50	0.07	3052	15-Nov-91	05:03:50 PM	7.41	6.42	0.40	8800
13-Nov-91	04:25:44 PM	7.7457	19.00	0.07	2972	15-Nov-91	05:03:54 PM	7.4137	6.49	0.40	8694
13-Nov-91	04:26:14 PM	7.7385	19.50	0.08	2895	15-Nov-91	05:03:59 PM	7.4209	6.58	0.39	8584
13-Nov-91	04:26:44 PM	7.7349	20.00	0.08	2823	15-Nov-91	05:04:05 PM	7.41	6.67	0.40	8469
13-Nov-91	04:27:14 PM	7.7349	20.50	0.08	2754	15-Nov-91	05:04:09 PM	7.4245	6.74	0.39	8371

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13-Nov-91	04:27:44 PM	7.7421	21.00	0.07	2689	15-Nov-91	05:04:15 PM	7.4137	6.83	0.40	8264
13-Nov-91	04:28:14 PM	7.7385	21.50	0.08	2626	15-Nov-91	05:04:19 PM	7.4281	6.91	0.39	8169
13-Nov-91	04:28:44 PM	7.7349	22.00	0.08	2566	15-Nov-91	05:04:25 PM	7.4137	7.00	0.40	8066
13-Nov-91	04:29:14 PM	7.7313	22.50	0.08	2509	15-Nov-91	05:04:29 PM	7.4173	7.08	0.40	7978
13-Nov-91	04:29:44 PM	7.7277	23.00	0.09	2455	15-Nov-91	05:04:34 PM	7.4173	7.16	0.40	7885
13-Nov-91	04:30:14 PM	7.7241	23.50	0.09	2403	15-Nov-91	05:04:40 PM	7.4245	7.25	0.39	7788
13-Nov-91	04:30:44 PM	7.7241	24.00	0.09	2353	15-Nov-91	05:04:44 PM	7.4209	7.33	0.39	7705
13-Nov-91	04:31:14 PM	7.7241	24.50	0.09	2305	15-Nov-91	05:04:50 PM	7.4245	7.42	0.39	7614
13-Nov-91	04:31:44 PM	7.7421	25.00	0.07	2259	15-Nov-91	05:04:54 PM	7.4173	7.50	0.40	7533
13-Nov-91	04:32:14 PM	7.7205	25.50	0.09	2214	15-Nov-91	05:05:00 PM	7.4389	7.58	0.38	7446
13-Nov-91	04:32:44 PM	7.7277	26.00	0.09	2172	15-Nov-91	05:05:04 PM	7.4245	7.66	0.39	7370
13-Nov-91	04:33:14 PM	7.7277	26.50	0.09	2131	15-Nov-91	05:05:09 PM	7.4245	7.74	0.39	7291
13-Nov-91	04:33:44 PM	7.7205	27.00	0.09	2091	15-Nov-91	05:05:15 PM	7.4281	7.83	0.39	7208
13-Nov-91	04:34:14 PM	7.7241	27.50	0.09	2053	15-Nov-91	05:05:19 PM	7.4425	7.91	0.37	7137
13-Nov-91	04:34:44 PM	7.7241	28.00	0.09	2016	15-Nov-91	05:05:25 PM	7.605	8.00	0.21	7059
13-Nov-91	04:35:14 PM	7.7205	28.50	0.09	1981	15-Nov-91	05:05:29 PM	7.605	8.08	0.21	6989
13-Nov-91	04:35:44 PM	7.7277	29.00	0.09	1947	15-Nov-91	05:05:35 PM	7.6013	8.17	0.21	6914
13-Nov-91	04:36:14 PM	7.7313	29.50	0.08	1914	15-Nov-91	05:05:39 PM	7.605	8.25	0.21	6848
13-Nov-91	04:36:44 PM	7.7241	30.00	0.09	1882	15-Nov-91	05:05:44 PM	7.6013	8.33	0.21	6780
13-Nov-91	04:37:14 PM	7.7241	30.50	0.09	1851	15-Nov-91	05:06:14 PM	7.6194	8.83	0.19	6395
13-Nov-91	04:37:44 PM	7.7313	31.00	0.08	1821	15-Nov-91	05:06:44 PM	7.6158	9.33	0.20	6053
13-Nov-91	04:38:14 PM	7.7205	31.50	0.09	1792	15-Nov-91	05:07:14 PM	7.6158	9.83	0.20	5745
13-Nov-91	04:38:44 PM	7.7205	32.00	0.09	1764	15-Nov-91	05:07:44 PM	7.6194	10.33	0.19	5467
13-Nov-91	04:39:14 PM	7.7168	32.50	0.10	1737	15-Nov-91	05:08:14 PM	7.623	10.83	0.19	5214
13-Nov-91	04:39:44 PM	7.7241	33.00	0.09	1711	15-Nov-91	05:08:44 PM	7.6158	11.33	0.20	4984
13-Nov-91	04:40:14 PM	7.7205	33.50	0.09	1685	15-Nov-91	05:09:14 PM	7.6194	11.83	0.19	4774
13-Nov-91	04:40:44 PM	7.7241	34.00	0.09	1661	15-Nov-91	05:09:44 PM	7.623	12.33	0.19	4580
13-Nov-91	04:41:14 PM	7.7168	34.50	0.10	1637	15-Nov-91	05:10:14 PM	7.6266	12.83	0.19	4402
13-Nov-91	04:41:44 PM	7.7205	35.00	0.09	1613	15-Nov-91	05:10:44 PM	7.6302	13.33	0.18	4236
13-Nov-91	04:42:14 PM	7.7277	35.50	0.09	1591	15-Nov-91	05:11:14 PM	7.6194	13.83	0.19	4083
13-Nov-91	04:42:44 PM	7.7205	36.00	0.09	1568	15-Nov-91	05:11:44 PM	7.6086	14.33	0.21	3941
13-Nov-91	04:43:14 PM	7.7132	36.50	0.10	1547	15-Nov-91	05:12:14 PM	7.6194	14.83	0.19	3808
13-Nov-91	04:43:44 PM	7.706	37.00	0.11	1526	15-Nov-91	05:12:44 PM	7.6086	15.33	0.21	3683
13-Nov-91	04:44:14 PM	7.6988	37.50	0.12	1506	15-Nov-91	05:13:14 PM	7.6158	15.83	0.20	3567
13-Nov-91	04:44:44 PM	7.6952	38.00	0.12	1486	15-Nov-91	05:13:44 PM	7.6013	16.33	0.21	3458
13-Nov-91	04:45:14 PM	7.7132	38.50	0.10	1467	15-Nov-91	05:14:14 PM	7.605	16.83	0.21	3355
13-Nov-91	04:45:44 PM	7.6988	39.00	0.12	1448	15-Nov-91	05:14:44 PM	7.6122	17.33	0.20	3259
13-Nov-91	04:46:14 PM	7.7132	39.50	0.10	1429	15-Nov-91	05:15:14 PM	7.6194	17.83	0.19	3167
13-Nov-91	04:46:44 PM	7.6916	40.00	0.12	1412	15-Nov-91	05:15:44 PM	7.6158	18.33	0.20	3081
13-Nov-91	04:47:14 PM	7.7096	40.50	0.10	1394	15-Nov-91	05:16:14 PM	7.6194	18.83	0.19	2999
13-Nov-91	04:47:44 PM	7.7024	41.00	0.11	1377	15-Nov-91	05:16:44 PM	7.6194	19.33	0.19	2921
13-Nov-91	04:48:14 PM	7.6952	41.50	0.12	1361	15-Nov-91	05:17:14 PM	7.623	19.83	0.19	2848
13-Nov-91	04:48:44 PM	7.6988	42.00	0.12	1344	15-Nov-91	05:17:44 PM	7.6266	20.33	0.19	2778
13-Nov-91	04:49:14 PM	7.6952	42.50	0.12	1329	15-Nov-91	05:18:14 PM	7.6266	20.83	0.19	2711
13-Nov-91	04:49:44 PM	7.706	43.00	0.11	1313	15-Nov-91	05:18:44 PM	7.6266	21.33	0.19	2647
13-Nov-91	04:50:14 PM	7.6988	43.50	0.12	1298	15-Nov-91	05:19:14 PM	7.6266	21.83	0.19	2587

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Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
13-Nov-91	04:50:44 PM	7.6988	44.00	0.12	1283	15-Nov-91	05:19:44 PM	7.6374	22.33	0.18	2529
13-Nov-91	04:51:14 PM	7.6988	44.50	0.12	1269	15-Nov-91	05:20:14 PM	7.6447	22.83	0.17	2473
13-Nov-91	04:51:44 PM	7.7024	45.00	0.11	1255	15-Nov-91	05:20:44 PM	7.6338	23.33	0.18	2420
13-Nov-91	04:52:14 PM	7.688	45.50	0.13	1241	15-Nov-91	05:21:14 PM	7.641	23.83	0.17	2370
13-Nov-91	04:52:44 PM	7.7024	46.00	0.11	1227	15-Nov-91	05:21:44 PM	7.641	24.33	0.17	2321
13-Nov-91	04:53:14 PM	7.706	46.50	0.11	1214	15-Nov-91	05:22:14 PM	7.6483	24.83	0.17	2274
13-Nov-91	04:53:44 PM	7.688	47.00	0.13	1201	15-Nov-91	05:22:44 PM	7.6519	25.33	0.16	2229
13-Nov-91	04:54:14 PM	7.6844	47.50	0.13	1189	15-Nov-91	05:23:14 PM	7.6483	25.83	0.17	2186
13-Nov-91	04:54:44 PM	7.7096	48.00	0.10	1176	15-Nov-91	05:23:44 PM	7.6555	26.33	0.16	2145
13-Nov-91	04:55:14 PM	7.6988	48.50	0.12	1164	15-Nov-91	05:24:14 PM	7.6591	26.83	0.16	2105
13-Nov-91	04:55:44 PM	7.6916	49.00	0.12	1152	15-Nov-91	05:24:44 PM	7.6591	27.33	0.16	2066
13-Nov-91	04:56:14 PM	7.6916	49.50	0.12	1141	15-Nov-91	05:25:14 PM	7.6591	27.83	0.16	2029
13-Nov-91	04:56:44 PM	7.688	50.00	0.13	1129	15-Nov-91	05:25:44 PM	7.6663	28.33	0.15	1993
13-Nov-91	04:57:14 PM	7.7024	50.50	0.11	1118	15-Nov-91	05:26:14 PM	7.6483	28.83	0.17	1959
13-Nov-91	04:57:44 PM	7.6771	51.00	0.14	1107	15-Nov-91	05:26:44 PM	7.6447	29.33	0.17	1925
13-Nov-91	04:58:14 PM	7.6916	51.50	0.12	1096	15-Nov-91	05:27:14 PM	7.6483	29.83	0.17	1893
13-Nov-91	04:58:44 PM	7.8396	52.00	-0.03	1086	15-Nov-91	05:27:44 PM	7.6555	30.33	0.16	1862
13-Nov-91	04:59:14 PM	7.836	52.50	-0.02	1075	15-Nov-91	05:28:14 PM	7.6555	30.83	0.16	1832
13-Nov-91	04:59:44 PM	7.8396	53.00	-0.03	1065	15-Nov-91	05:28:44 PM	7.6555	31.33	0.16	1802
13-Nov-91	05:00:14 PM	7.8215	53.50	-0.01	1055	15-Nov-91	05:29:14 PM	7.6483	31.83	0.17	1774
13-Nov-91	05:00:44 PM	7.836	54.00	-0.02	1046	15-Nov-91	05:29:44 PM	7.641	32.33	0.17	1747
13-Nov-91	05:01:14 PM	7.8251	54.50	-0.01	1036	15-Nov-91	05:30:14 PM	7.641	32.83	0.17	1720
13-Nov-91	05:01:44 PM	7.836	55.00	-0.02	1027	15-Nov-91	05:30:44 PM	7.6447	33.33	0.17	1694
13-Nov-91	05:02:14 PM	7.8287	55.50	-0.01	1017	15-Nov-91	05:31:14 PM	7.6374	33.83	0.18	1669
13-Nov-91	05:02:44 PM	7.8323	56.00	-0.02	1008	15-Nov-91	05:31:44 PM	7.6483	34.33	0.17	1645
13-Nov-91	05:03:14 PM	7.8251	56.50	-0.01	999	15-Nov-91	05:32:14 PM	7.6374	34.83	0.18	1621
13-Nov-91	05:03:44 PM	7.8287	57.00	-0.01	991	15-Nov-91	05:32:44 PM	7.6447	35.33	0.17	1598
13-Nov-91	05:04:14 PM	7.836	57.50	-0.02	982	15-Nov-91	05:33:14 PM	7.641	35.83	0.17	1576
13-Nov-91	05:04:44 PM	7.8323	58.00	-0.02	973	15-Nov-91	05:33:44 PM	7.6483	36.33	0.17	1554
13-Nov-91	05:05:14 PM	7.8323	58.50	-0.02	965	15-Nov-91	05:34:14 PM	7.6447	36.83	0.17	1533
13-Nov-91	05:05:44 PM	7.8251	59.00	-0.01	957	15-Nov-91	05:34:44 PM	7.6374	37.33	0.18	1513
13-Nov-91	05:06:14 PM	7.8323	59.50	-0.02	949	15-Nov-91	05:35:14 PM	7.6483	37.83	0.17	1493
13-Nov-91	05:06:44 PM	7.836	60.00	-0.02	941	15-Nov-91	05:35:44 PM	7.6338	38.33	0.18	1473
13-Nov-91	05:07:44 PM	7.8287	61.00	-0.01	926	15-Nov-91	05:36:14 PM	7.6483	38.83	0.17	1454
13-Nov-91	05:08:44 PM	7.8287	62.00	-0.01	911	15-Nov-91	05:36:44 PM	7.6519	39.33	0.16	1436
13-Nov-91	05:09:44 PM	7.8251	63.00	-0.01	896	15-Nov-91	05:37:14 PM	7.6447	39.83	0.17	1418
13-Nov-91	05:10:44 PM	7.8251	64.00	-0.01	882	15-Nov-91	05:37:44 PM	7.6519	40.33	0.16	1400
13-Nov-91	05:11:44 PM	7.8251	65.00	-0.01	869	15-Nov-91	05:38:14 PM	7.6555	40.83	0.16	1383
13-Nov-91	05:12:44 PM	7.8251	66.00	-0.01	855	15-Nov-91	05:38:44 PM	7.6447	41.33	0.17	1366
13-Nov-91	05:13:44 PM	7.8251	67.00	-0.01	843	15-Nov-91	05:39:14 PM	7.6519	41.83	0.16	1350
13-Nov-91	05:14:44 PM	7.8179	68.00	0.00	830	15-Nov-91	05:39:44 PM	7.6663	42.33	0.15	1334
13-Nov-91	05:15:44 PM	7.8179	69.00	0.00	818	15-Nov-91	05:40:14 PM	7.6627	42.83	0.15	1318
13-Nov-91	05:16:44 PM	7.8251	70.00	-0.01	807	15-Nov-91	05:40:44 PM	7.6663	43.33	0.15	1303
13-Nov-91	05:17:44 PM	7.8215	71.00	-0.01	795	15-Nov-91	05:41:14 PM	7.6555	43.83	0.16	1288
13-Nov-91	05:18:44 PM	7.8215	72.00	-0.01	784	15-Nov-91	05:41:44 PM	7.6555	44.33	0.16	1274
13-Nov-91	05:19:44 PM	7.8143	73.00	0.00	773	15-Nov-91	05:42:14 PM	7.6627	44.83	0.15	1260

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PUMPING

RECOVERY

Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
13-Nov-91	05:20:44 PM	7.8215	74.00	-0.01	763	15-Nov-91	05:42:44 PM	7.6699	45.33	0.14	1246
13-Nov-91	05:21:44 PM	7.8179	75.00	0.00	753	15-Nov-91	05:43:14 PM	7.6735	45.83	0.14	1232
13-Nov-91	05:22:44 PM	7.8215	76.00	-0.01	743	15-Nov-91	05:43:44 PM	7.6663	46.33	0.15	1219
13-Nov-91	05:23:44 PM	7.8179	77.00	0.00	733	15-Nov-91	05:44:14 PM	7.6663	46.83	0.15	1206
13-Nov-91	05:24:44 PM	7.8179	78.00	0.00	724	15-Nov-91	05:44:44 PM	7.6699	47.33	0.14	1193
13-Nov-91	05:25:44 PM	7.8215	79.00	-0.01	715	15-Nov-91	05:45:14 PM	7.6663	47.83	0.15	1181
13-Nov-91	05:26:44 PM	7.8215	80.00	-0.01	706	15-Nov-91	05:45:44 PM	7.6699	48.33	0.14	1168
13-Nov-91	05:27:44 PM	7.8215	81.00	-0.01	697	15-Nov-91	05:46:14 PM	7.6699	48.83	0.14	1156
13-Nov-91	05:28:44 PM	7.8179	82.00	0.00	689	15-Nov-91	05:46:44 PM	7.6699	49.33	0.14	1145
13-Nov-91	05:29:44 PM	7.8179	83.00	0.00	680	15-Nov-91	05:47:14 PM	7.6735	49.83	0.14	1133
13-Nov-91	05:30:44 PM	7.8143	84.00	0.00	672	15-Nov-91	05:47:44 PM	7.6699	50.33	0.14	1122
13-Nov-91	05:31:44 PM	7.8107	85.00	0.00	664	15-Nov-91	05:48:14 PM	7.6771	50.83	0.14	1111
13-Nov-91	05:32:44 PM	7.8179	86.00	0.00	657	15-Nov-91	05:48:44 PM	7.6771	51.33	0.14	1100
13-Nov-91	05:33:44 PM	7.8143	87.00	0.00	649	15-Nov-91	05:49:14 PM	7.6771	51.83	0.14	1089
13-Nov-91	05:34:44 PM	7.8143	88.00	0.00	642	15-Nov-91	05:49:44 PM	7.6699	52.33	0.14	1079
13-Nov-91	05:35:44 PM	7.8143	89.00	0.00	634	15-Nov-91	05:50:14 PM	7.6699	52.83	0.14	1069
13-Nov-91	05:36:44 PM	7.8143	90.00	0.00	627	15-Nov-91	05:50:44 PM	7.6735	53.33	0.14	1059
13-Nov-91	05:37:44 PM	7.8107	91.00	0.00	620	15-Nov-91	05:51:14 PM	7.6808	53.83	0.13	1049
13-Nov-91	05:38:44 PM	7.8107	92.00	0.00	614	15-Nov-91	05:51:44 PM	7.6808	54.33	0.13	1039
13-Nov-91	05:39:44 PM	7.8107	93.00	0.00	607	15-Nov-91	05:52:14 PM	7.6844	54.83	0.13	1030
13-Nov-91	05:40:44 PM	7.8143	94.00	0.00	601	15-Nov-91	05:52:44 PM	7.6771	55.33	0.14	1021
13-Nov-91	05:41:44 PM	7.8071	95.00	0.01	594	15-Nov-91	05:53:14 PM	7.6735	55.83	0.14	1011
13-Nov-91	05:42:44 PM	7.8071	96.00	0.01	588	15-Nov-91	05:53:44 PM	7.6735	56.33	0.14	1002
13-Nov-91	05:43:44 PM	7.8071	97.00	0.01	582	15-Nov-91	05:54:14 PM	7.6735	56.83	0.14	994
13-Nov-91	05:44:44 PM	7.8143	98.00	0.00	576	15-Nov-91	05:54:44 PM	7.6735	57.33	0.14	985
13-Nov-91	05:45:44 PM	7.8107	99.00	0.00	570	15-Nov-91	05:55:14 PM	7.6699	57.83	0.14	976
13-Nov-91	05:46:44 PM	7.8035	100.00	0.01	565	15-Nov-91	05:55:45 PM	7.6699	58.33	0.14	968
13-Nov-91	05:47:44 PM	7.8107	101.00	0.00	559	15-Nov-91	05:56:44 PM	7.6771	59.33	0.14	952
13-Nov-91	05:48:44 PM	7.8107	102.00	0.00	554	15-Nov-91	05:57:44 PM	7.6735	60.33	0.14	936
13-Nov-91	05:49:44 PM	7.8071	103.00	0.01	548	15-Nov-91	05:58:44 PM	7.6808	61.33	0.13	921
13-Nov-91	05:50:44 PM	7.8035	104.00	0.01	543	15-Nov-91	05:59:44 PM	7.6771	62.33	0.14	906
13-Nov-91	05:51:44 PM	7.8071	105.00	0.01	538	15-Nov-91	06:00:44 PM	7.6916	63.33	0.12	892
13-Nov-91	05:52:44 PM	7.8071	106.00	0.01	533	15-Nov-91	06:01:44 PM	7.706	64.33	0.11	878
13-Nov-91	05:53:44 PM	7.8035	107.00	0.01	528	15-Nov-91	06:02:44 PM	7.6988	65.33	0.12	864
13-Nov-91	05:54:44 PM	7.8179	108.00	0.00	523	15-Nov-91	06:03:44 PM	7.6952	66.33	0.12	851
13-Nov-91	05:55:44 PM	7.7999	109.00	0.01	518	15-Nov-91	06:04:44 PM	7.6916	67.33	0.12	839
13-Nov-91	05:56:44 PM	7.8035	110.00	0.01	513	15-Nov-91	06:05:44 PM	7.6916	68.33	0.12	826
13-Nov-91	05:57:44 PM	7.8035	111.00	0.01	509	15-Nov-91	06:06:44 PM	7.6952	69.33	0.12	814
13-Nov-91	05:58:44 PM	7.8071	112.00	0.01	504	15-Nov-91	06:07:44 PM	7.688	70.33	0.13	803
13-Nov-91	05:59:44 PM	7.8071	113.00	0.01	500	15-Nov-91	06:08:44 PM	7.6952	71.33	0.12	792
13-Nov-91	06:00:44 PM	7.8071	114.00	0.01	495	15-Nov-91	06:09:44 PM	7.6844	72.33	0.13	781
13-Nov-91	06:01:44 PM	7.7999	115.00	0.01	491	15-Nov-91	06:10:44 PM	7.688	73.33	0.13	770
13-Nov-91	06:02:44 PM	7.8107	116.00	0.00	487	15-Nov-91	06:11:44 PM	7.6916	74.33	0.12	760
13-Nov-91	06:03:44 PM	7.8143	117.00	0.00	483	15-Nov-91	06:12:44 PM	7.7024	75.33	0.11	750
13-Nov-91	06:04:44 PM	7.8035	118.00	0.01	478	15-Nov-91	06:13:44 PM	7.7024	76.33	0.11	740
13-Nov-91	06:05:44 PM	7.8071	119.00	0.01	474	15-Nov-91	06:14:44 PM	7.6952	77.33	0.12	730

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RECOVERY

PUMPING						RECOVERY					
Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
13-Nov-91	06:06:45 PM	7.7999	120.00	0.01	471	15-Nov-91	06:15:44 PM	7.6844	78.33	0.13	721
13-Nov-91	06:11:44 PM	7.8035	125.00	0.01	452	15-Nov-91	06:16:44 PM	7.6916	79.33	0.12	712
13-Nov-91	06:16:44 PM	7.8035	130.00	0.01	434	15-Nov-91	06:17:44 PM	7.6952	80.33	0.12	703
13-Nov-91	06:21:44 PM	7.7999	135.00	0.01	418	15-Nov-91	06:18:44 PM	7.6988	81.33	0.12	694
13-Nov-91	06:26:44 PM	7.7963	140.00	0.02	403	15-Nov-91	06:19:44 PM	7.6952	82.33	0.12	686
13-Nov-91	06:31:44 PM	7.7999	145.00	0.01	389	15-Nov-91	06:20:44 PM	7.7024	83.33	0.11	678
13-Nov-91	06:36:44 PM	7.7999	150.00	0.01	376	15-Nov-91	06:21:44 PM	7.6952	84.33	0.12	670
13-Nov-91	06:41:44 PM	7.7963	155.00	0.02	364	15-Nov-91	06:22:44 PM	7.706	85.33	0.11	662
13-Nov-91	06:46:44 PM	7.7926	160.00	0.02	353	15-Nov-91	06:23:44 PM	7.6988	86.33	0.12	654
13-Nov-91	06:51:44 PM	7.7999	165.00	0.01	342	15-Nov-91	06:24:44 PM	7.706	87.33	0.11	647
13-Nov-91	06:56:44 PM	7.7926	170.00	0.02	332	15-Nov-91	06:25:44 PM	7.7096	88.33	0.10	639
13-Nov-91	07:01:44 PM	7.7963	175.00	0.02	323	15-Nov-91	06:26:44 PM	7.706	89.33	0.11	632
13-Nov-91	07:06:44 PM	7.7926	180.00	0.02	314	15-Nov-91	06:27:44 PM	7.7096	90.33	0.10	625
13-Nov-91	07:11:44 PM	7.789	185.00	0.03	305	15-Nov-91	06:28:44 PM	7.7168	91.33	0.10	618
13-Nov-91	07:16:44 PM	7.7854	190.00	0.03	297	15-Nov-91	06:29:44 PM	7.7132	92.33	0.10	612
13-Nov-91	07:21:44 PM	7.8071	195.00	0.01	290	15-Nov-91	06:30:44 PM	7.7168	93.33	0.10	605
13-Nov-91	07:26:44 PM	7.7999	200.00	0.01	282	15-Nov-91	06:31:44 PM	7.7096	94.33	0.10	599
13-Nov-91	07:31:44 PM	7.7999	205.00	0.01	275	15-Nov-91	06:32:44 PM	7.7168	95.33	0.10	592
13-Nov-91	07:36:44 PM	7.8035	210.00	0.01	269	15-Nov-91	06:33:44 PM	7.7168	96.33	0.10	586
13-Nov-91	07:41:44 PM	7.7963	215.00	0.02	263	15-Nov-91	06:34:44 PM	7.7168	97.33	0.10	580
13-Nov-91	07:46:44 PM	7.7999	220.00	0.01	257	15-Nov-91	06:35:44 PM	7.7205	98.33	0.09	574
13-Nov-91	07:51:44 PM	7.7963	225.00	0.02	251	15-Nov-91	06:36:44 PM	7.7132	99.33	0.10	568
13-Nov-91	07:56:44 PM	7.789	230.00	0.03	245	15-Nov-91	06:37:44 PM	7.7132	100.33	0.10	563
13-Nov-91	08:01:44 PM	7.789	235.00	0.03	240	15-Nov-91	06:38:44 PM	7.7168	101.33	0.10	557
13-Nov-91	08:06:44 PM	7.7963	240.00	0.02	235	15-Nov-91	06:39:44 PM	7.7168	102.33	0.10	552
13-Nov-91	08:11:44 PM	7.7999	245.00	0.01	230	15-Nov-91	06:40:44 PM	7.7168	103.33	0.10	546
13-Nov-91	08:16:44 PM	7.8035	250.00	0.01	226	15-Nov-91	06:41:44 PM	7.7205	104.33	0.09	541
13-Nov-91	08:21:44 PM	7.7926	255.00	0.02	221	15-Nov-91	06:42:44 PM	7.7205	105.33	0.09	536
13-Nov-91	08:26:44 PM	7.7963	260.00	0.02	217	15-Nov-91	06:43:44 PM	7.7205	106.33	0.09	531
13-Nov-91	08:31:44 PM	7.7818	265.00	0.03	213	15-Nov-91	06:44:44 PM	7.7205	107.33	0.09	526
13-Nov-91	08:36:44 PM	7.7926	270.00	0.02	209	15-Nov-91	06:45:44 PM	7.7168	108.33	0.10	521
13-Nov-91	08:41:44 PM	7.7963	275.00	0.02	205	15-Nov-91	06:46:44 PM	7.7096	109.33	0.10	516
13-Nov-91	08:46:44 PM	7.7963	280.00	0.02	202	15-Nov-91	06:47:44 PM	7.7168	110.33	0.10	512
13-Nov-91	08:51:44 PM	7.7854	285.00	0.03	198	15-Nov-91	06:48:44 PM	7.7205	111.33	0.09	507
13-Nov-91	08:56:44 PM	7.789	290.00	0.03	195	15-Nov-91	06:49:44 PM	7.7168	112.33	0.10	503
13-Nov-91	09:01:44 PM	7.7818	295.00	0.03	191	15-Nov-91	06:50:44 PM	7.7132	113.33	0.10	498
13-Nov-91	09:06:44 PM	7.7926	300.00	0.02	188	15-Nov-91	06:51:44 PM	7.706	114.33	0.11	494
13-Nov-91	09:11:44 PM	7.7926	305.00	0.02	185	15-Nov-91	06:52:44 PM	7.706	115.33	0.11	490
13-Nov-91	09:16:44 PM	7.7818	310.00	0.03	182	15-Nov-91	06:53:44 PM	7.706	116.33	0.11	485
13-Nov-91	09:21:44 PM	7.7854	315.00	0.03	179	15-Nov-91	06:54:44 PM	7.7096	117.33	0.10	481
13-Nov-91	09:26:44 PM	7.789	320.00	0.03	176	15-Nov-91	06:55:44 PM	7.7168	118.33	0.10	477
13-Nov-91	09:31:44 PM	7.789	325.00	0.03	174	15-Nov-91	07:00:44 PM	7.7132	123.33	0.10	458
13-Nov-91	09:36:44 PM	7.7854	330.00	0.03	171	15-Nov-91	07:05:44 PM	7.7096	128.33	0.10	440
13-Nov-91	09:41:44 PM	7.7818	335.00	0.03	169	15-Nov-91	07:10:44 PM	7.7205	133.33	0.09	423
13-Nov-91	09:46:44 PM	7.7818	340.00	0.03	166	15-Nov-91	07:15:44 PM	7.7241	138.33	0.09	408
13-Nov-91	09:51:44 PM	7.7746	345.00	0.04	164	15-Nov-91	07:20:44 PM	7.7205	143.33	0.09	394

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Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
13-Nov-91	09:56:44 PM	7.7746	350.00	0.04	161	15-Nov-91	07:25:44 PM	7.7241	148.33	0.09	381
13-Nov-91	10:01:44 PM	7.7818	355.00	0.03	159	15-Nov-91	07:30:44 PM	7.7168	153.33	0.10	368
13-Nov-91	10:06:44 PM	7.7782	360.00	0.04	157	15-Nov-91	07:35:44 PM	7.7277	158.33	0.09	357
13-Nov-91	10:11:44 PM	7.7782	365.00	0.04	155	15-Nov-91	07:40:44 PM	7.7313	163.33	0.08	346
13-Nov-91	10:16:44 PM	7.7854	370.00	0.03	153	15-Nov-91	07:45:44 PM	7.7205	168.33	0.09	335
13-Nov-91	10:21:44 PM	7.7782	375.00	0.04	151	15-Nov-91	07:50:44 PM	7.7385	173.33	0.08	326
13-Nov-91	10:26:44 PM	7.7818	380.00	0.03	149	15-Nov-91	07:55:44 PM	7.7385	178.33	0.08	317
13-Nov-91	10:31:44 PM	7.7746	385.00	0.04	147	15-Nov-91	08:00:44 PM	7.7493	183.33	0.07	308
13-Nov-91	10:36:44 PM	7.7854	390.00	0.03	145	15-Nov-91	08:05:44 PM	7.7385	188.33	0.08	300
13-Nov-91	10:41:44 PM	7.771	395.00	0.04	143	15-Nov-91	08:10:44 PM	7.7349	193.33	0.08	292
13-Nov-91	10:46:44 PM	7.771	400.00	0.04	141	15-Nov-91	08:15:44 PM	7.7421	198.33	0.07	285
13-Nov-91	10:51:44 PM	7.771	405.00	0.04	139	15-Nov-91	08:20:44 PM	7.7421	203.33	0.07	278
13-Nov-91	10:56:44 PM	7.771	410.00	0.04	138	15-Nov-91	08:25:44 PM	7.7457	208.33	0.07	271
13-Nov-91	11:01:44 PM	7.7746	415.00	0.04	136	15-Nov-91	08:30:44 PM	7.7457	213.33	0.07	265
13-Nov-91	11:06:44 PM	7.7818	420.00	0.03	134	15-Nov-91	08:35:44 PM	7.7457	218.33	0.07	259
13-Nov-91	11:21:44 PM	7.7674	435.00	0.05	130	15-Nov-91	08:40:44 PM	7.7493	223.33	0.07	253
13-Nov-91	11:36:44 PM	7.7602	450.00	0.05	125	15-Nov-91	08:45:44 PM	7.7565	228.33	0.06	247
13-Nov-91	11:51:44 PM	7.7565	465.00	0.06	121	15-Nov-91	08:50:44 PM	7.7385	233.33	0.08	242
14-Nov-91	12:06:44 AM	7.7529	480.00	0.06	118	15-Nov-91	08:55:44 PM	7.7565	238.33	0.06	237
14-Nov-91	12:21:44 AM	7.7602	495.00	0.05	114	15-Nov-91	09:00:44 PM	7.7638	243.33	0.05	232
14-Nov-91	12:36:44 AM	7.7638	510.00	0.05	111	15-Nov-91	09:05:44 PM	7.7565	248.33	0.06	227
14-Nov-91	12:51:44 AM	7.7565	525.00	0.06	108	15-Nov-91	09:10:44 PM	7.7529	253.33	0.06	223
14-Nov-91	01:06:44 AM	7.7565	540.00	0.06	105	15-Nov-91	09:15:44 PM	7.7602	258.33	0.05	219
14-Nov-91	01:21:44 AM	7.7493	555.00	0.07	102	15-Nov-91	09:20:44 PM	7.7493	263.33	0.07	214
14-Nov-91	01:36:44 AM	7.7457	570.00	0.07	99	15-Nov-91	09:25:44 PM	7.7493	268.33	0.07	210
14-Nov-91	01:51:44 AM	7.7457	585.00	0.07	97	15-Nov-91	09:30:44 PM	7.7638	273.33	0.05	207
14-Nov-91	02:06:44 AM	7.7421	600.00	0.07	94	15-Nov-91	09:35:44 PM	7.7674	278.33	0.05	203
14-Nov-91	02:21:44 AM	7.7457	615.00	0.07	92	15-Nov-91	09:40:44 PM	7.7674	283.33	0.05	199
14-Nov-91	02:36:44 AM	7.7385	630.00	0.08	90	15-Nov-91	09:45:44 PM	7.7565	288.33	0.06	196
14-Nov-91	02:51:44 AM	7.7457	645.00	0.07	88	15-Nov-91	09:50:44 PM	7.7818	293.33	0.03	192
14-Nov-91	03:06:44 AM	7.7385	660.00	0.08	86	15-Nov-91	09:55:44 PM	7.789	298.33	0.03	189
14-Nov-91	03:21:44 AM	7.7421	675.00	0.07	84	15-Nov-91	10:00:44 PM	7.7926	303.33	0.02	186
14-Nov-91	03:36:44 AM	7.7349	690.00	0.08	82	15-Nov-91	10:05:44 PM	7.7854	308.33	0.03	183
14-Nov-91	03:51:44 AM	7.7385	705.00	0.08	80	15-Nov-91	10:10:44 PM	7.7999	313.33	0.01	180
14-Nov-91	04:06:44 AM	7.7277	720.00	0.09	78	15-Nov-91	10:15:44 PM	7.7963	318.33	0.02	177
14-Nov-91	04:21:44 AM	7.7385	735.00	0.08	77	15-Nov-91	10:20:44 PM	7.7999	323.33	0.01	175
14-Nov-91	04:36:44 AM	7.7277	750.00	0.09	75	15-Nov-91	10:25:44 PM	7.7963	328.33	0.02	172
14-Nov-91	04:51:44 AM	7.7277	765.00	0.09	74	15-Nov-91	10:30:44 PM	7.789	333.33	0.03	169
14-Nov-91	05:06:44 AM	7.7241	780.00	0.09	72	15-Nov-91	10:35:44 PM	7.7818	338.33	0.03	167
14-Nov-91	05:21:44 AM	7.7277	795.00	0.09	71	15-Nov-91	10:40:44 PM	7.7926	343.33	0.02	164
14-Nov-91	05:36:44 AM	7.7205	810.00	0.09	70	15-Nov-91	10:45:44 PM	7.789	348.33	0.03	162
14-Nov-91	05:51:44 AM	7.7205	825.00	0.09	68	15-Nov-91	10:50:44 PM	7.7926	353.33	0.02	160
14-Nov-91	06:06:44 AM	7.7132	840.00	0.10	67	15-Nov-91	10:55:44 PM	7.7999	358.33	0.01	158
14-Nov-91	06:21:44 AM	7.7132	855.00	0.10	66	15-Nov-91	11:00:44 PM	7.789	363.33	0.03	155
14-Nov-91	06:36:44 AM	7.7132	870.00	0.10	65	15-Nov-91	11:05:44 PM	7.789	368.33	0.03	153
14-Nov-91	06:51:44 AM	7.4425	885.00	0.37	64	15-Nov-91	11:10:44 PM	7.789	373.33	0.03	151

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Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
14-Nov-91	07:06:44 AM	7.4498	900.00	0.36	63	15-Nov-91	11:15:44 PM	7.8035	378.33	0.01	149
14-Nov-91	07:21:44 AM	7.4137	915.00	0.40	62	15-Nov-91	11:20:44 PM	7.7999	383.33	0.01	147
14-Nov-91	07:36:44 AM	7.4281	930.00	0.39	61	15-Nov-91	11:25:44 PM	7.7963	388.33	0.02	145
14-Nov-91	07:51:44 AM	7.4137	945.00	0.40	60	15-Nov-91	11:30:44 PM	7.8035	393.33	0.01	144
14-Nov-91	08:06:44 AM	7.4281	960.00	0.39	59	15-Nov-91	11:35:44 PM	7.8035	398.33	0.01	142
14-Nov-91	08:21:44 AM	7.4317	975.00	0.38	58	15-Nov-91	11:40:44 PM	7.8107	403.33	0.00	140
14-Nov-91	08:36:44 AM	7.4281	990.00	0.39	57	15-Nov-91	11:45:44 PM	7.7999	408.33	0.01	138
14-Nov-91	08:51:44 AM	7.4281	1005.00	0.39	56	15-Nov-91	11:50:44 PM	7.8107	413.33	0.00	137
14-Nov-91	09:06:44 AM	7.4498	1020.00	0.36	55	15-Nov-91	11:55:45 PM	7.8107	418.33	0.00	135
14-Nov-91	09:21:44 AM	7.4389	1035.00	0.38	55	16-Nov-91	12:10:44 AM	7.8107	433.33	0.00	130
14-Nov-91	09:36:44 AM	7.4245	1050.00	0.39	54	16-Nov-91	12:25:44 AM	7.8179	448.33	0.00	126
14-Nov-91	09:51:44 AM	7.4498	1065.00	0.36	53	16-Nov-91	12:40:44 AM	7.8107	463.33	0.00	122
14-Nov-91	10:06:44 AM	7.4353	1080.00	0.38	52	16-Nov-91	12:55:44 AM	7.8179	478.33	0.00	118
14-Nov-91	10:21:45 AM	7.5003	1095.00	0.31	52	16-Nov-91	01:10:44 AM	7.8287	493.33	-0.01	114
14-Nov-91	10:36:44 AM	7.5364	1110.00	0.28	51	16-Nov-91	01:25:44 AM	7.8215	508.33	-0.01	111
14-Nov-91	10:51:44 AM	7.5219	1125.00	0.29	50	16-Nov-91	01:40:44 AM	7.8251	523.33	-0.01	108
14-Nov-91	11:06:44 AM	7.5183	1140.00	0.30	50	16-Nov-91	01:55:44 AM	7.8215	538.33	-0.01	105
14-Nov-91	11:21:44 AM	7.5111	1155.00	0.30	49	16-Nov-91	02:10:44 AM	7.8251	553.33	-0.01	102
14-Nov-91	11:36:44 AM	7.5147	1170.00	0.30	48	16-Nov-91	02:25:44 AM	7.8323	568.33	-0.02	99
14-Nov-91	11:51:44 AM	7.5075	1185.00	0.31	48	16-Nov-91	02:40:44 AM	7.8432	583.33	-0.03	97
14-Nov-91	12:06:44 PM	7.5544	1200.00	0.26	47	16-Nov-91	02:55:44 AM	7.8396	598.33	-0.03	94
14-Nov-91	12:21:44 PM	7.5219	1215.00	0.29	46	16-Nov-91	03:10:44 AM	7.8468	613.33	-0.03	92
14-Nov-91	12:36:44 PM	7.5219	1230.00	0.29	46	16-Nov-91	03:25:44 AM	7.8468	628.33	-0.03	90
14-Nov-91	12:51:44 PM	7.5111	1245.00	0.30	45	16-Nov-91	03:40:44 AM	7.8468	643.33	-0.03	88
14-Nov-91	01:06:44 PM	7.5869	1260.00	0.23	45	16-Nov-91	03:55:44 AM	7.8396	658.33	-0.03	86
14-Nov-91	01:21:44 PM	7.5183	1275.00	0.30	44	16-Nov-91	04:10:44 AM	7.8396	673.33	-0.03	84
14-Nov-91	01:36:44 PM	7.54	1290.00	0.27	44	16-Nov-91	04:25:44 AM	7.8432	688.33	-0.03	82
14-Nov-91	01:51:44 PM	7.5436	1305.00	0.27	43	16-Nov-91	04:40:44 AM	7.8504	703.33	-0.04	80
14-Nov-91	02:06:44 PM	7.5292	1320.00	0.29	43	16-Nov-91	04:55:44 AM	7.8468	718.33	-0.03	79
14-Nov-91	02:21:44 PM	7.5111	1335.00	0.30	42	16-Nov-91	05:10:44 AM	7.8504	733.33	-0.04	77
14-Nov-91	02:36:44 PM	7.5147	1350.00	0.30	42	16-Nov-91	05:25:44 AM	7.8504	748.33	-0.04	75
14-Nov-91	02:51:44 PM	7.5111	1365.00	0.30	41	16-Nov-91	05:40:44 AM	7.854	763.33	-0.04	74
14-Nov-91	03:06:44 PM	7.5111	1380.00	0.30	41	16-Nov-91	05:55:44 AM	7.854	778.33	-0.04	73
14-Nov-91	03:21:44 PM	7.5292	1395.00	0.29	40	16-Nov-91	06:10:44 AM	7.8432	793.33	-0.03	71
14-Nov-91	03:36:44 PM	7.5003	1410.00	0.31	40	16-Nov-91	06:25:44 AM	7.8468	808.33	-0.03	70
14-Nov-91	03:51:44 PM	7.4931	1425.00	0.32	40	16-Nov-91	06:40:44 AM	7.8576	823.33	-0.04	69
14-Nov-91	04:06:44 PM	7.5111	1440.00	0.30	39	16-Nov-91	06:55:44 AM	7.6302	838.33	0.18	67
14-Nov-91	04:21:44 PM	7.5003	1455.00	0.31	39	16-Nov-91	07:10:44 AM	7.6338	853.33	0.18	66
14-Nov-91	04:36:44 PM	7.4895	1470.00	0.32	38	16-Nov-91	07:25:44 AM	7.605	868.33	0.21	65
14-Nov-91	04:51:44 PM	7.4858	1485.00	0.33	38	16-Nov-91	07:40:44 AM	7.6086	883.33	0.21	64
14-Nov-91	05:06:44 PM	7.6374	1500.00	0.18	38	16-Nov-91	07:55:44 AM	7.6158	898.33	0.20	63
14-Nov-91	05:21:44 PM	7.6519	1515.00	0.16	37	16-Nov-91	08:10:44 AM	7.6555	913.33	0.16	62
14-Nov-91	05:36:44 PM	7.6555	1530.00	0.16	37	16-Nov-91	08:25:44 AM	7.6591	928.33	0.16	61
14-Nov-91	05:51:44 PM	7.6519	1545.00	0.16	37	16-Nov-91	08:40:44 AM	7.6663	943.33	0.15	60
14-Nov-91	06:06:44 PM	7.6627	1560.00	0.15	36	16-Nov-91	08:55:44 AM	7.6627	958.33	0.15	59
14-Nov-91	06:21:44 PM	7.6483	1575.00	0.17	36	16-Nov-91	09:10:44 AM	7.6591	973.33	0.16	58

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14-Nov-91	06:36:44 PM	7.6447	1590.00	0.17		36	16-Nov-91	09:25:44 AM	7.641	988.33	0.17	57
14-Nov-91	06:51:44 PM	7.6483	1605.00	0.17		35	16-Nov-91	09:40:44 AM	7.6555	1003.33	0.16	56
14-Nov-91	07:06:44 PM	7.641	1620.00	0.17		35	16-Nov-91	09:55:44 AM	7.6591	1018.33	0.16	55
14-Nov-91	07:21:44 PM	7.641	1635.00	0.17		35	16-Nov-91	10:10:44 AM	7.6302	1033.33	0.18	55
14-Nov-91	07:36:44 PM	7.6302	1650.00	0.18		34	16-Nov-91	10:25:44 AM	7.6302	1048.33	0.18	54
14-Nov-91	07:51:44 PM	7.641	1665.00	0.17		34	16-Nov-91	10:40:44 AM	7.641	1063.33	0.17	53
14-Nov-91	08:06:44 PM	7.641	1680.00	0.17		34	16-Nov-91	10:55:44 AM	7.6627	1078.33	0.15	52
14-Nov-91	08:21:44 PM	7.6338	1695.00	0.18		33	16-Nov-91	11:10:44 AM	7.6519	1093.33	0.16	52
14-Nov-91	08:36:44 PM	7.6374	1710.00	0.18		33	16-Nov-91	11:25:44 AM	7.6302	1108.33	0.18	51
14-Nov-91	08:51:44 PM	7.641	1725.00	0.17		33	16-Nov-91	11:40:44 AM	7.6591	1123.33	0.16	50
14-Nov-91	09:06:44 PM	7.6338	1740.00	0.18		32	16-Nov-91	11:55:44 AM	7.6194	1138.33	0.19	50
14-Nov-91	09:21:44 PM	7.6338	1755.00	0.18		32	16-Nov-91	12:10:44 PM	7.8901	1153.33	-0.08	49
14-Nov-91	09:36:44 PM	7.6266	1770.00	0.19		32	16-Nov-91	12:25:44 PM	7.6591	1168.33	0.16	48
14-Nov-91	09:51:44 PM	7.6266	1785.00	0.19		32	16-Nov-91	12:40:44 PM	7.688	1183.33	0.13	48
14-Nov-91	10:06:44 PM	7.6194	1800.00	0.19		31	16-Nov-91	12:55:44 PM	7.6771	1198.33	0.14	47
14-Nov-91	10:21:44 PM	7.623	1815.00	0.19		31	16-Nov-91	01:10:44 PM	7.6663	1213.33	0.15	47
14-Nov-91	10:36:44 PM	7.623	1830.00	0.19		31	16-Nov-91	01:25:44 PM	7.6699	1228.33	0.14	46
14-Nov-91	10:51:44 PM	7.6158	1845.00	0.20		31	16-Nov-91	01:40:44 PM	7.6808	1243.33	0.13	45
14-Nov-91	11:06:44 PM	7.6122	1860.00	0.20		30	16-Nov-91	01:55:44 PM	7.6663	1258.33	0.15	45
14-Nov-91	11:36:44 PM	7.6338	1890.00	0.18		30	16-Nov-91	02:10:44 PM	7.688	1273.33	0.13	44
15-Nov-91	12:06:44 AM	7.623	1920.00	0.19		29	16-Nov-91	02:25:44 PM	7.6699	1288.33	0.14	44
15-Nov-91	12:36:44 AM	7.6158	1950.00	0.20		29	16-Nov-91	02:40:44 PM	7.6663	1303.33	0.15	43
15-Nov-91	01:06:44 AM	7.6086	1980.00	0.21		29	16-Nov-91	02:55:44 PM	7.6663	1318.33	0.15	43
15-Nov-91	01:36:44 AM	7.6086	2010.00	0.21		28	16-Nov-91	03:10:44 PM	7.6771	1333.33	0.14	42
15-Nov-91	02:06:44 AM	7.6122	2040.00	0.20		28	16-Nov-91	03:25:44 PM	7.6699	1348.33	0.14	42
15-Nov-91	02:36:44 AM	7.6013	2070.00	0.21		27	16-Nov-91	03:40:44 PM	7.6555	1363.33	0.16	41
15-Nov-91	03:06:44 AM	7.6013	2100.00	0.21		27	16-Nov-91	03:55:44 PM	7.6591	1378.33	0.16	41
15-Nov-91	03:36:44 AM	7.605	2130.00	0.21		27	16-Nov-91	04:10:44 PM	7.6771	1393.33	0.14	41
15-Nov-91	04:06:44 AM	7.5941	2160.00	0.22		26	16-Nov-91	04:25:44 PM	7.6735	1408.33	0.14	40
15-Nov-91	04:36:44 AM	7.5833	2190.00	0.23		26	16-Nov-91	04:40:44 PM	7.6519	1423.33	0.16	40
15-Nov-91	05:06:44 AM	7.5905	2220.00	0.22		25	16-Nov-91	04:55:44 PM	7.6735	1438.33	0.14	39
15-Nov-91	05:36:44 AM	7.5905	2250.00	0.22		25	16-Nov-91	05:10:44 PM	7.9118	1453.33	-0.10	39
15-Nov-91	06:06:44 AM	7.5869	2280.00	0.23		25	16-Nov-91	05:25:44 PM	7.9226	1468.33	-0.11	38
15-Nov-91	06:36:44 AM	7.6555	2310.00	0.16		24	16-Nov-91	05:40:44 PM	7.9118	1483.33	-0.10	38
15-Nov-91	07:06:44 AM	7.3812	2340.00	0.43		24	16-Nov-91	05:55:44 PM	7.919	1498.33	-0.10	38
15-Nov-91	07:36:44 AM	7.3884	2370.00	0.43		24	16-Nov-91	06:10:44 PM	7.9045	1513.33	-0.09	37
15-Nov-91	08:06:44 AM	7.3992	2400.00	0.42		24	16-Nov-91	06:25:44 PM	7.9081	1528.33	-0.09	37
15-Nov-91	08:36:44 AM	7.4028	2430.00	0.41		23	16-Nov-91	06:40:44 PM	7.9009	1543.33	-0.09	37
15-Nov-91	09:06:44 AM	7.3956	2460.00	0.42		23	16-Nov-91	06:55:44 PM	7.9081	1558.33	-0.09	36
15-Nov-91	09:36:44 AM	7.4064	2490.00	0.41		23	16-Nov-91	07:10:44 PM	7.9226	1573.33	-0.11	36
15-Nov-91	10:06:44 AM	7.3956	2520.00	0.42		22	16-Nov-91	07:25:44 PM	7.9154	1588.33	-0.10	36
15-Nov-91	10:36:44 AM	7.3956	2550.00	0.42		22	16-Nov-91	07:40:44 PM	7.937	1603.33	-0.12	35
15-Nov-91	11:06:44 AM	7.41	2580.00	0.40		22	16-Nov-91	07:55:44 PM	7.919	1618.33	-0.10	35
15-Nov-91	11:36:44 AM	7.4028	2610.00	0.41		22	16-Nov-91	08:10:44 PM	7.919	1633.33	-0.10	35
15-Nov-91	12:06:44 PM	7.392	2640.00	0.42		21	16-Nov-91	08:25:44 PM	7.9334	1648.33	-0.12	34
15-Nov-91	12:36:44 PM	7.4064	2670.00	0.41		21	16-Nov-91	08:40:44 PM	7.919	1663.33	-0.10	34

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Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	
15-Nov-91	01:06:44 PM	7.4173	2700.00	0.40		21	16-Nov-91	08:55:44 PM	7.9226	1678.33	-0.11	34
15-Nov-91	01:36:44 PM	7.4137	2730.00	0.40		21	16-Nov-91	09:10:44 PM	7.9298	1693.33	-0.12	33
15-Nov-91	02:06:44 PM	7.3992	2760.00	0.42		20	16-Nov-91	09:25:44 PM	7.9298	1708.33	-0.12	33
15-Nov-91	02:36:44 PM	7.392	2790.00	0.42		20	16-Nov-91	09:40:44 PM	7.9298	1723.33	-0.12	33
15-Nov-91	03:06:44 PM	7.4245	2820.00	0.39		20	16-Nov-91	09:55:44 PM	7.9298	1738.33	-0.12	32
15-Nov-91	03:36:44 PM	7.4028	2850.00	0.41		20	16-Nov-91	10:10:44 PM	7.9334	1753.33	-0.12	32
15-Nov-91	04:06:44 PM	7.4028	2880.00	0.41		20	16-Nov-91	10:25:44 PM	7.9298	1768.33	-0.12	32
15-Nov-91	04:45:18 PM	7.4064	2918.56	0.41		19	16-Nov-91	10:40:44 PM	7.9298	1783.33	-0.12	32
15-Nov-91	04:45:24 PM	7.4028	2918.65	0.41		19	16-Nov-91	10:55:44 PM	7.9334	1798.33	-0.12	31
15-Nov-91	04:45:28 PM	7.3848	2918.73	0.43		19	16-Nov-91	11:10:44 PM	7.9587	1813.33	-0.14	31
15-Nov-91	04:45:34 PM	7.392	2918.82	0.42		19	16-Nov-91	11:25:44 PM	7.9442	1828.33	-0.13	31
15-Nov-91	04:45:38 PM	7.392	2918.90	0.42		19	16-Nov-91	11:40:44 PM	7.9442	1843.33	-0.13	31
15-Nov-91	04:45:44 PM	7.3812	2918.99	0.43		19	16-Nov-91	11:55:45 PM	7.9442	1858.33	-0.13	30
15-Nov-91	04:45:48 PM	7.392	2919.07	0.42		19	17-Nov-91	12:25:44 AM	7.9515	1888.33	-0.14	30
15-Nov-91	04:45:53 PM	7.3884	2919.15	0.43		19	17-Nov-91	12:55:44 AM	7.9515	1918.33	-0.14	29
15-Nov-91	04:45:59 PM	7.3884	2919.24	0.43		19	17-Nov-91	01:25:44 AM	7.9478	1948.33	-0.13	29
15-Nov-91	04:46:03 PM	7.3812	2919.32	0.43		19	17-Nov-91	01:55:44 AM	7.9551	1978.33	-0.14	29
15-Nov-91	04:46:09 PM	7.3992	2919.41	0.42		19	17-Nov-91	02:25:44 AM	7.9515	2008.33	-0.14	28
15-Nov-91	04:46:13 PM	7.392	2919.48	0.42		19	17-Nov-91	02:55:44 AM	7.9551	2038.33	-0.14	28
15-Nov-91	04:46:19 PM	7.3848	2919.57	0.43		19	17-Nov-91	03:25:44 AM	7.9659	2068.33	-0.15	27
15-Nov-91	04:46:23 PM	7.392	2919.65	0.42		19	17-Nov-91	03:55:44 AM	7.9659	2098.33	-0.15	27
15-Nov-91	04:46:28 PM	7.3848	2919.73	0.43		19	17-Nov-91	04:25:44 AM	7.9623	2128.33	-0.15	27
15-Nov-91	04:46:34 PM	7.3812	2919.82	0.43		19	17-Nov-91	04:55:44 AM	7.9659	2158.33	-0.15	26
15-Nov-91	04:46:38 PM	7.3884	2919.90	0.43		19	17-Nov-91	05:25:44 AM	7.9839	2188.33	-0.17	26
15-Nov-91	04:46:44 PM	7.4028	2919.99	0.41		19	17-Nov-91	05:55:44 AM	7.9767	2218.33	-0.16	25
15-Nov-91	04:46:48 PM	7.4064	2920.07	0.41		19	17-Nov-91	06:25:44 AM	7.9875	2248.33	-0.17	25
15-Nov-91	04:46:54 PM	7.4028	2920.16	0.41		19	17-Nov-91	06:55:44 AM	7.9154	2278.33	-0.10	25
15-Nov-91	04:46:58 PM	7.4209	2920.23	0.39		19	17-Nov-91	07:25:44 AM	7.9009	2308.33	-0.09	24
15-Nov-91	04:47:03 PM	7.3884	2920.32	0.43		19	17-Nov-91	07:55:44 AM	7.8829	2338.33	-0.07	24
15-Nov-91	04:47:09 PM	7.3884	2920.40	0.43		19	17-Nov-91	08:25:44 AM	7.8793	2368.33	-0.06	24
15-Nov-91	04:47:13 PM	7.3848	2920.48	0.43		19	17-Nov-91	08:55:44 AM	7.872	2398.33	-0.06	24
15-Nov-91	04:47:19 PM	7.3848	2920.57	0.43		19	17-Nov-91	09:25:44 AM	7.8865	2428.33	-0.07	23
15-Nov-91	04:47:23 PM	7.3848	2920.65	0.43		19	17-Nov-91	09:55:44 AM	7.919	2458.33	-0.10	23
15-Nov-91	04:47:29 PM	7.3884	2920.74	0.43		19	17-Nov-91	10:25:44 AM	7.9262	2488.33	-0.11	23
15-Nov-91	04:47:33 PM	7.3848	2920.82	0.43		19	17-Nov-91	10:55:44 AM	7.919	2518.33	-0.10	22
15-Nov-91	04:47:38 PM	7.3956	2920.90	0.42		19	17-Nov-91	11:25:44 AM	7.9226	2548.33	-0.11	22
15-Nov-91	04:47:44 PM	7.3992	2920.99	0.42		19	17-Nov-91	11:55:44 AM	7.9262	2578.33	-0.11	22
15-Nov-91	04:47:48 PM	7.3884	2921.07	0.43		19	17-Nov-91	12:25:44 PM	7.9262	2608.33	-0.11	22
15-Nov-91	04:47:54 PM	7.3884	2921.16	0.43		19	17-Nov-91	12:55:44 PM	7.9442	2638.33	-0.13	21
15-Nov-91	04:47:58 PM	7.4028	2921.23	0.41		19	17-Nov-91	01:25:44 PM	7.9262	2668.33	-0.11	21
15-Nov-91	04:48:04 PM	7.392	2921.32	0.42		19	17-Nov-91	01:55:44 PM	7.9118	2698.33	-0.10	21
15-Nov-91	04:48:08 PM	7.3992	2921.40	0.42		19	17-Nov-91	02:25:44 PM	7.8865	2728.33	-0.07	21
15-Nov-91	04:48:13 PM	7.3992	2921.48	0.42		19						
15-Nov-91	04:48:19 PM	7.3776	2921.57	0.44		19						
15-Nov-91	04:48:23 PM	7.392	2921.65	0.42		19						
15-Nov-91	04:48:29 PM	7.3884	2921.74	0.43		19						

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RECOVERY

Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
15-Nov-91	04:48:33 PM	7.4028	2921.82	0.41	19						
15-Nov-91	04:48:39 PM	7.4064	2921.91	0.41	19						
15-Nov-91	04:48:43 PM	7.4064	2921.98	0.41	19						
15-Nov-91	04:48:48 PM	7.3992	2922.07	0.42	19						
15-Nov-91	04:48:54 PM	7.3992	2922.16	0.42	19						
15-Nov-91	04:48:58 PM	7.4064	2922.23	0.41	19						
15-Nov-91	04:49:04 PM	7.392	2922.32	0.42	19						
15-Nov-91	04:49:08 PM	7.3884	2922.40	0.43	19						
15-Nov-91	04:49:14 PM	7.3956	2922.49	0.42	19						
15-Nov-91	04:49:18 PM	7.3956	2922.57	0.42	19						
15-Nov-91	04:49:23 PM	7.4064	2922.65	0.41	19						
15-Nov-91	04:49:29 PM	7.3812	2922.74	0.43	19						
15-Nov-91	04:49:33 PM	7.392	2922.82	0.42	19						
15-Nov-91	04:49:39 PM	7.4028	2922.90	0.41	19						
15-Nov-91	04:49:43 PM	7.4028	2922.98	0.41	19						
15-Nov-91	04:49:49 PM	7.3956	2923.07	0.42	19						
15-Nov-91	04:49:53 PM	7.3956	2923.15	0.42	19						
15-Nov-91	04:49:58 PM	7.3956	2923.23	0.42	19						
15-Nov-91	04:50:04 PM	7.3992	2923.32	0.42	19						
15-Nov-91	04:50:08 PM	7.392	2923.40	0.42	19						
15-Nov-91	04:50:14 PM	7.4028	2923.49	0.41	19						
15-Nov-91	04:50:18 PM	7.392	2923.57	0.42	19						
15-Nov-91	04:50:24 PM	7.3776	2923.66	0.44	19						
15-Nov-91	04:50:28 PM	7.3992	2923.73	0.42	19						
15-Nov-91	04:50:33 PM	7.3884	2923.82	0.43	19						
15-Nov-91	04:50:39 PM	7.3703	2923.91	0.44	19						
15-Nov-91	04:50:43 PM	7.3992	2923.98	0.42	19						
15-Nov-91	04:50:49 PM	7.392	2924.07	0.42	19						
15-Nov-91	04:50:53 PM	7.392	2924.15	0.42	19						
15-Nov-91	04:50:59 PM	7.3812	2924.24	0.43	19						
15-Nov-91	04:51:03 PM	7.392	2924.32	0.42	19						
15-Nov-91	04:51:08 PM	7.4028	2924.40	0.41	19						
15-Nov-91	04:51:14 PM	7.4028	2924.49	0.41	19						
15-Nov-91	04:51:18 PM	7.3956	2924.57	0.42	19						
15-Nov-91	04:51:24 PM	7.3848	2924.66	0.43	19						
15-Nov-91	04:51:28 PM	7.3992	2924.73	0.42	19						
15-Nov-91	04:51:34 PM	7.3992	2924.82	0.42	19						
15-Nov-91	04:51:38 PM	7.3992	2924.90	0.42	19						
15-Nov-91	04:51:43 PM	7.4064	2924.98	0.41	19						
15-Nov-91	04:51:49 PM	7.392	2925.07	0.42	19						
15-Nov-91	04:51:53 PM	7.3992	2925.15	0.42	19						
15-Nov-91	04:51:59 PM	7.3848	2925.24	0.43	19						
15-Nov-91	04:52:03 PM	7.4064	2925.32	0.41	19						
15-Nov-91	04:52:09 PM	7.4064	2925.40	0.41	19						
15-Nov-91	04:52:13 PM	7.392	2925.48	0.42	19						
15-Nov-91	04:52:18 PM	7.4028	2925.57	0.41	19						

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PUMPING							RECOVERY					
Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)		Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
15-Nov-91	04:52:24	PM 7.3992	2925.66	0.42		19						
15-Nov-91	04:52:28	PM 7.3992	2925.73	0.42		19						
15-Nov-91	04:52:34	PM 7.4028	2925.82	0.41		19						
15-Nov-91	04:52:38	PM 7.4028	2925.90	0.41		19						
15-Nov-91	04:52:44	PM 7.3992	2925.99	0.42		19						
15-Nov-91	04:52:48	PM 7.3812	2926.07	0.43		19						
15-Nov-91	04:52:53	PM 7.3956	2926.15	0.42		19						
15-Nov-91	04:52:59	PM 7.4064	2926.24	0.41		19						
15-Nov-91	04:53:03	PM 7.392	2926.32	0.42		19						
15-Nov-91	04:53:09	PM 7.3884	2926.41	0.43		19						
15-Nov-91	04:53:13	PM 7.3956	2926.48	0.42		19						
15-Nov-91	04:53:19	PM 7.3992	2926.57	0.42		19						
15-Nov-91	04:53:23	PM 7.3992	2926.65	0.42		19						
15-Nov-91	04:53:28	PM 7.392	2926.73	0.42		19						
15-Nov-91	04:53:34	PM 7.4028	2926.82	0.41		19						
15-Nov-91	04:53:38	PM 7.4028	2926.90	0.41		19						
15-Nov-91	04:53:44	PM 7.4064	2926.99	0.41		19						
15-Nov-91	04:53:48	PM 7.392	2927.06	0.42		19						
15-Nov-91	04:53:54	PM 7.3776	2927.15	0.44		19						
15-Nov-91	04:53:58	PM 7.3884	2927.23	0.43		19						
15-Nov-91	04:54:03	PM 7.3812	2927.32	0.43		19						
15-Nov-91	04:54:09	PM 7.392	2927.40	0.42		19						
15-Nov-91	04:54:13	PM 7.3884	2927.48	0.43		19						
15-Nov-91	04:54:19	PM 7.3992	2927.57	0.42		19						
15-Nov-91	04:54:23	PM 7.3848	2927.65	0.43		19						
15-Nov-91	04:54:29	PM 7.3956	2927.74	0.42		19						
15-Nov-91	04:54:33	PM 7.392	2927.82	0.42		19						
15-Nov-91	04:54:38	PM 7.3848	2927.90	0.43		19						
15-Nov-91	04:54:44	PM 7.3956	2927.99	0.42		19						
15-Nov-91	04:54:48	PM 7.4028	2928.07	0.41		19						
15-Nov-91	04:54:54	PM 7.392	2928.16	0.42		19						
15-Nov-91	04:55:44	PM 7.3956	2929.00	0.42		19						
15-Nov-91	04:55:50	PM 7.3884	2929.09	0.43		19						
15-Nov-91	04:55:54	PM 7.41	2929.17	0.40		19						
15-Nov-91	04:55:59	PM 7.3992	2929.25	0.42		19						
15-Nov-91	04:56:05	PM 7.3884	2929.34	0.43		19						
15-Nov-91	04:56:09	PM 7.3848	2929.42	0.43		19						
15-Nov-91	04:56:15	PM 7.392	2929.51	0.42		19						
15-Nov-91	04:56:19	PM 7.3848	2929.58	0.43		19						
15-Nov-91	04:56:25	PM 7.3812	2929.67	0.43		19						
15-Nov-91	04:56:29	PM 7.374	2929.75	0.44		19						
15-Nov-91	04:56:34	PM 7.374	2929.83	0.44		19						
15-Nov-91	04:56:40	PM 7.392	2929.92	0.42		19						
15-Nov-91	04:56:44	PM 7.3812	2930.00	0.43		19						
15-Nov-91	04:56:50	PM 7.3884	2930.09	0.43		19						
15-Nov-91	04:56:54	PM 7.3848	2930.17	0.43		19						

UPRR SACRAMENTO
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RECOVERY

Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
15-Nov-91	04:57:00 PM	7.3812	2930.26	0.43	19						
15-Nov-91	04:57:04 PM	7.392	2930.33	0.42	19						
15-Nov-91	04:57:09 PM	7.3884	2930.42	0.43	19						
15-Nov-91	04:57:15 PM	7.3884	2930.51	0.43	19						
15-Nov-91	04:57:19 PM	7.3848	2930.58	0.43	19						

UPRR SACRAMENTO
MW-41 DATALOGGER DATA
November, 1991

PUMPING

RECOVERY

Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
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November, 1991

PUMPING

RECOVERY

Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
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13-Nov-91	04:06:44	PM 10.229	0.00	0.00	--	15-Nov-91	04:57:25	PM 10.012	0.00	0.22	--
13-Nov-91	04:06:54	PM 10.229	0.17	0.00	1591	15-Nov-91	04:57:29	PM 10.012	0.08	0.22	3417
13-Nov-91	04:07:04	PM 10.236	0.33	-0.01	795	15-Nov-91	04:57:35	PM 10.012	0.17	0.22	1591
13-Nov-91	04:07:14	PM 10.236	0.50	-0.01	532	15-Nov-91	04:57:39	PM 10.012	0.24	0.22	1085
13-Nov-91	04:07:24	PM 10.236	0.67	-0.01	399	15-Nov-91	04:57:44	PM 10.012	0.33	0.22	809
13-Nov-91	04:07:34	PM 10.236	0.83	-0.01	319	15-Nov-91	04:57:50	PM 10.012	0.42	0.22	638
13-Nov-91	04:07:44	PM 10.243	1.00	-0.01	265	15-Nov-91	04:57:54	PM 10.012	0.50	0.22	536
13-Nov-91	04:07:54	PM 10.236	1.17	-0.01	228	15-Nov-91	04:58:00	PM 10.005	0.58	0.22	456
13-Nov-91	04:08:04	PM 10.236	1.33	-0.01	199	15-Nov-91	04:58:04	PM 10.012	0.66	0.22	402
13-Nov-91	04:08:14	PM 10.236	1.50	-0.01	177	15-Nov-91	04:58:10	PM 10.005	0.75	0.22	354
13-Nov-91	04:08:24	PM 10.243	1.67	-0.01	159	15-Nov-91	04:58:14	PM 10.005	0.83	0.22	321
13-Nov-91	04:08:34	PM 10.236	1.83	-0.01	145	15-Nov-91	04:58:19	PM 10.005	0.91	0.22	291
13-Nov-91	04:08:44	PM 10.236	2.00	-0.01	133	15-Nov-91	04:58:25	PM 10.005	1.00	0.22	266
13-Nov-91	04:08:54	PM 10.236	2.17	-0.01	123	15-Nov-91	04:58:29	PM 9.998	1.08	0.23	246
13-Nov-91	04:09:04	PM 10.236	2.33	-0.01	114	15-Nov-91	04:58:35	PM 9.998	1.17	0.23	228
13-Nov-91	04:09:14	PM 10.236	2.50	-0.01	106	15-Nov-91	04:58:39	PM 10.005	1.24	0.22	214
13-Nov-91	04:09:24	PM 10.236	2.67	-0.01	100	15-Nov-91	04:58:45	PM 10.012	1.33	0.22	199
13-Nov-91	04:09:34	PM 10.236	2.83	-0.01	94	15-Nov-91	04:58:49	PM 10.005	1.41	0.22	188
13-Nov-91	04:09:44	PM 10.236	3.00	-0.01	89	15-Nov-91	04:58:54	PM 10.005	1.49	0.22	178
13-Nov-91	04:09:54	PM 10.229	3.17	0.00	84	15-Nov-91	04:59:00	PM 10.005	1.58	0.22	168
13-Nov-91	04:10:04	PM 10.236	3.33	-0.01	80	15-Nov-91	04:59:04	PM 10.005	1.66	0.22	160
13-Nov-91	04:10:14	PM 10.229	3.50	0.00	76	15-Nov-91	04:59:10	PM 10.012	1.75	0.22	152
13-Nov-91	04:10:24	PM 10.236	3.67	-0.01	72	15-Nov-91	04:59:14	PM 10.005	1.83	0.22	145
13-Nov-91	04:10:34	PM 10.236	3.83	-0.01	69	15-Nov-91	04:59:20	PM 10.005	1.92	0.22	139
13-Nov-91	04:10:44	PM 10.229	4.00	0.00	66	15-Nov-91	04:59:24	PM 10.012	1.99	0.22	133
13-Nov-91	04:10:54	PM 10.236	4.17	-0.01	64	15-Nov-91	04:59:29	PM 10.012	2.08	0.22	128
13-Nov-91	04:11:04	PM 10.229	4.33	0.00	61	15-Nov-91	04:59:35	PM 10.012	2.17	0.22	123
13-Nov-91	04:11:14	PM 10.229	4.50	0.00	59	15-Nov-91	04:59:39	PM 10.012	2.24	0.22	118
13-Nov-91	04:11:24	PM 10.229	4.67	0.00	57	15-Nov-91	04:59:45	PM 10.012	2.33	0.22	114
13-Nov-91	04:11:34	PM 10.229	4.83	0.00	55	15-Nov-91	04:59:49	PM 10.012	2.41	0.22	110
13-Nov-91	04:11:44	PM 10.229	5.00	0.00	53	15-Nov-91	04:59:55	PM 10.012	2.50	0.22	106
13-Nov-91	04:11:54	PM 10.229	5.17	0.00	51	15-Nov-91	04:59:59	PM 10.012	2.58	0.22	103
13-Nov-91	04:12:04	PM 10.229	5.33	0.00	50	15-Nov-91	05:00:04	PM 10.012	2.66	0.22	100
13-Nov-91	04:12:14	PM 10.229	5.50	0.00	48	15-Nov-91	05:00:10	PM 10.012	2.75	0.22	97
13-Nov-91	04:12:24	PM 10.229	5.67	0.00	47	15-Nov-91	05:00:14	PM 10.012	2.83	0.22	94
13-Nov-91	04:12:34	PM 10.229	5.83	0.00	46	15-Nov-91	05:00:20	PM 10.012	2.92	0.22	91

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RECOVERY

Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	
13-Nov-91	04:12:44 PM	10.229	6.00	0.00		44	15-Nov-91	05:00:24 PM	10.012	3.00	0.22	89
13-Nov-91	04:12:54 PM	10.229	6.17	0.00		43	15-Nov-91	05:00:30 PM	10.012	3.08	0.22	86
13-Nov-91	04:13:04 PM	10.229	6.33	0.00		42	15-Nov-91	05:00:34 PM	10.012	3.16	0.22	84
13-Nov-91	04:13:14 PM	10.229	6.50	0.00		41	15-Nov-91	05:00:39 PM	10.012	3.24	0.22	82
13-Nov-91	04:13:24 PM	10.229	6.67	0.00		40	15-Nov-91	05:00:45 PM	10.012	3.33	0.22	80
13-Nov-91	04:13:34 PM	10.222	6.83	0.01		39	15-Nov-91	05:00:49 PM	10.012	3.41	0.22	78
13-Nov-91	04:13:44 PM	10.222	7.00	0.01		38	15-Nov-91	05:00:55 PM	10.012	3.50	0.22	76
13-Nov-91	04:13:54 PM	10.229	7.17	0.00		37	15-Nov-91	05:00:59 PM	10.012	3.58	0.22	74
13-Nov-91	04:14:04 PM	10.222	7.33	0.01		36	15-Nov-91	05:01:05 PM	10.012	3.67	0.22	72
13-Nov-91	04:14:14 PM	10.222	7.50	0.01		35	15-Nov-91	05:01:09 PM	10.012	3.75	0.22	71
13-Nov-91	04:14:24 PM	10.229	7.67	0.00		35	15-Nov-91	05:01:14 PM	10.012	3.83	0.22	69
13-Nov-91	04:14:34 PM	10.222	7.83	0.01		34	15-Nov-91	05:01:20 PM	10.012	3.92	0.22	68
13-Nov-91	04:14:44 PM	10.222	8.00	0.01		33	15-Nov-91	05:01:24 PM	10.012	3.99	0.22	67
13-Nov-91	04:14:54 PM	10.222	8.17	0.01		33	15-Nov-91	05:01:30 PM	10.012	4.08	0.22	65
13-Nov-91	04:15:04 PM	10.222	8.33	0.01		32	15-Nov-91	05:01:34 PM	10.012	4.16	0.22	64
13-Nov-91	04:15:14 PM	10.222	8.50	0.01		31	15-Nov-91	05:01:40 PM	10.012	4.25	0.22	63
13-Nov-91	04:15:24 PM	10.222	8.67	0.01		31	15-Nov-91	05:01:44 PM	10.012	4.33	0.22	61
13-Nov-91	04:15:34 PM	10.222	8.83	0.01		30	15-Nov-91	05:01:49 PM	10.012	4.41	0.22	60
13-Nov-91	04:15:44 PM	10.215	9.00	0.01		30	15-Nov-91	05:01:55 PM	10.02	4.50	0.21	59
13-Nov-91	04:15:54 PM	10.222	9.17	0.01		29	15-Nov-91	05:01:59 PM	10.012	4.58	0.22	58
13-Nov-91	04:16:04 PM	10.215	9.33	0.01		28	15-Nov-91	05:02:05 PM	10.012	4.67	0.22	57
13-Nov-91	04:16:14 PM	10.215	9.50	0.01		28	15-Nov-91	05:02:09 PM	10.012	4.74	0.22	56
13-Nov-91	04:16:24 PM	10.215	9.67	0.01		27	15-Nov-91	05:02:15 PM	10.02	4.84	0.21	55
13-Nov-91	04:16:34 PM	10.215	9.83	0.01		27	15-Nov-91	05:02:19 PM	10.012	4.91	0.22	54
13-Nov-91	04:16:44 PM	10.215	10.00	0.01		27	15-Nov-91	05:02:24 PM	10.012	5.00	0.22	53
13-Nov-91	04:17:14 PM	10.222	10.50	0.01		25	15-Nov-91	05:02:30 PM	10.012	5.08	0.22	52
13-Nov-91	04:17:44 PM	10.215	11.00	0.01		24	15-Nov-91	05:02:34 PM	10.012	5.16	0.22	51
13-Nov-91	04:18:14 PM	10.215	11.50	0.01		23	15-Nov-91	05:02:40 PM	10.012	5.25	0.22	51
13-Nov-91	04:18:44 PM	10.215	12.00	0.01		22	15-Nov-91	05:02:44 PM	10.012	5.33	0.22	50
13-Nov-91	04:19:14 PM	10.215	12.50	0.01		21	15-Nov-91	05:02:49 PM	10.012	5.41	0.22	49
13-Nov-91	04:19:44 PM	10.215	13.00	0.01		20	15-Nov-91	05:02:55 PM	10.012	5.50	0.22	48
13-Nov-91	04:20:14 PM	10.215	13.50	0.01		20	15-Nov-91	05:02:59 PM	10.02	5.58	0.21	48
13-Nov-91	04:20:44 PM	10.215	14.00	0.01		19	15-Nov-91	05:03:05 PM	10.012	5.67	0.22	47
13-Nov-91	04:21:14 PM	10.215	14.50	0.01		18	15-Nov-91	05:03:09 PM	10.012	5.74	0.22	46
13-Nov-91	04:21:44 PM	10.207	15.00	0.02		18	15-Nov-91	05:03:15 PM	10.012	5.83	0.22	46
13-Nov-91	04:22:14 PM	10.207	15.50	0.02		17	15-Nov-91	05:03:19 PM	10.012	5.91	0.22	45
13-Nov-91	04:22:44 PM	10.207	16.00	0.02		17	15-Nov-91	05:03:24 PM	10.02	5.99	0.21	44
13-Nov-91	04:23:14 PM	10.207	16.50	0.02		16	15-Nov-91	05:03:30 PM	10.012	6.08	0.22	44
13-Nov-91	04:23:44 PM	10.207	17.00	0.02		16	15-Nov-91	05:03:34 PM	10.02	6.16	0.21	43
13-Nov-91	04:24:14 PM	10.207	17.50	0.02		15	15-Nov-91	05:03:40 PM	10.012	6.25	0.22	43
13-Nov-91	04:24:44 PM	10.207	18.00	0.02		15	15-Nov-91	05:03:44 PM	10.012	6.33	0.22	42
13-Nov-91	04:25:14 PM	10.207	18.50	0.02		14	15-Nov-91	05:03:50 PM	10.012	6.42	0.22	41
13-Nov-91	04:25:44 PM	10.2	19.00	0.03		14	15-Nov-91	05:03:54 PM	10.012	6.49	0.22	41
13-Nov-91	04:26:14 PM	10.2	19.50	0.03		14	15-Nov-91	05:03:59 PM	10.02	6.58	0.21	40
13-Nov-91	04:26:44 PM	10.207	20.00	0.02		13	15-Nov-91	05:04:05 PM	10.02	6.67	0.21	40
13-Nov-91	04:27:14 PM	10.2	20.50	0.03		13	15-Nov-91	05:04:09 PM	10.012	6.74	0.22	39

UPRR SACRAMENTO
MW-41 DATALOGGER DATA
November, 1991

PUMPING

RECOVERY

PUMPING					RECOVERY					
Date	Time	Head	Elapsed Time (min.)	Drawdown r ² /t (feet) (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown r ² /t (feet) (ft ² /min)	
13-Nov-91	04:27:44 PM	10.2	21.00	0.03	13	15-Nov-91 05:04:15 PM	10.012	6.83	0.22	39
13-Nov-91	04:28:14 PM	10.2	21.50	0.03	12	15-Nov-91 05:04:19 PM	10.012	6.91	0.22	38
13-Nov-91	04:28:44 PM	10.2	22.00	0.03	12	15-Nov-91 05:04:25 PM	10.012	7.00	0.22	38
13-Nov-91	04:29:14 PM	10.2	22.50	0.03	12	15-Nov-91 05:04:29 PM	10.02	7.08	0.21	38
13-Nov-91	04:29:44 PM	10.2	23.00	0.03	12	15-Nov-91 05:04:34 PM	10.02	7.16	0.21	37
13-Nov-91	04:30:14 PM	10.193	23.50	0.04	11	15-Nov-91 05:04:40 PM	10.02	7.25	0.21	37
13-Nov-91	04:30:44 PM	10.2	24.00	0.03	11	15-Nov-91 05:04:44 PM	10.02	7.33	0.21	36
13-Nov-91	04:31:14 PM	10.193	24.50	0.04	11	15-Nov-91 05:04:50 PM	10.02	7.42	0.21	36
13-Nov-91	04:31:44 PM	10.193	25.00	0.04	11	15-Nov-91 05:04:54 PM	10.02	7.50	0.21	35
13-Nov-91	04:32:14 PM	10.193	25.50	0.04	10	15-Nov-91 05:05:00 PM	10.02	7.58	0.21	35
13-Nov-91	04:32:44 PM	10.193	26.00	0.04	10	15-Nov-91 05:05:04 PM	10.02	7.66	0.21	35
13-Nov-91	04:33:14 PM	10.193	26.50	0.04	10	15-Nov-91 05:05:09 PM	10.02	7.74	0.21	34
13-Nov-91	04:33:44 PM	10.193	27.00	0.04	10	15-Nov-91 05:05:15 PM	10.02	7.83	0.21	34
13-Nov-91	04:34:14 PM	10.193	27.50	0.04	10	15-Nov-91 05:05:19 PM	10.02	7.91	0.21	34
13-Nov-91	04:34:44 PM	10.193	28.00	0.04	9	15-Nov-91 05:05:25 PM	10.02	8.00	0.21	33
13-Nov-91	04:35:14 PM	10.193	28.50	0.04	9	15-Nov-91 05:05:29 PM	10.02	8.08	0.21	33
13-Nov-91	04:35:44 PM	10.193	29.00	0.04	9	15-Nov-91 05:05:35 PM	10.027	8.17	0.20	33
13-Nov-91	04:36:14 PM	10.193	29.50	0.04	9	15-Nov-91 05:05:39 PM	10.012	8.25	0.22	32
13-Nov-91	04:36:44 PM	10.193	30.00	0.04	9	15-Nov-91 05:05:44 PM	10.027	8.33	0.20	32
13-Nov-91	04:37:14 PM	10.186	30.50	0.04	9	15-Nov-91 05:06:14 PM	10.02	8.83	0.21	30
13-Nov-91	04:37:44 PM	10.193	31.00	0.04	9	15-Nov-91 05:06:44 PM	10.027	9.33	0.20	28
13-Nov-91	04:38:14 PM	10.193	31.50	0.04	8	15-Nov-91 05:07:14 PM	10.027	9.83	0.20	27
13-Nov-91	04:38:44 PM	10.186	32.00	0.04	8	15-Nov-91 05:07:44 PM	10.027	10.33	0.20	26
13-Nov-91	04:39:14 PM	10.193	32.50	0.04	8	15-Nov-91 05:08:14 PM	10.027	10.83	0.20	25
13-Nov-91	04:39:44 PM	10.186	33.00	0.04	8	15-Nov-91 05:08:44 PM	10.027	11.33	0.20	23
13-Nov-91	04:40:14 PM	10.186	33.50	0.04	8	15-Nov-91 05:09:14 PM	10.027	11.83	0.20	22
13-Nov-91	04:40:44 PM	10.178	34.00	0.05	8	15-Nov-91 05:09:44 PM	10.027	12.33	0.20	22
13-Nov-91	04:41:14 PM	10.186	34.50	0.04	8	15-Nov-91 05:10:14 PM	10.034	12.83	0.19	21
13-Nov-91	04:41:44 PM	10.186	35.00	0.04	8	15-Nov-91 05:10:44 PM	10.034	13.33	0.19	20
13-Nov-91	04:42:14 PM	10.178	35.50	0.05	7	15-Nov-91 05:11:14 PM	10.034	13.83	0.19	19
13-Nov-91	04:42:44 PM	10.178	36.00	0.05	7	15-Nov-91 05:11:44 PM	10.034	14.33	0.19	19
13-Nov-91	04:43:14 PM	10.178	36.50	0.05	7	15-Nov-91 05:12:14 PM	10.034	14.83	0.19	18
13-Nov-91	04:43:44 PM	10.178	37.00	0.05	7	15-Nov-91 05:12:44 PM	10.034	15.33	0.19	17
13-Nov-91	04:44:14 PM	10.178	37.50	0.05	7	15-Nov-91 05:13:14 PM	10.034	15.83	0.19	17
13-Nov-91	04:44:44 PM	10.178	38.00	0.05	7	15-Nov-91 05:13:44 PM	10.034	16.33	0.19	16
13-Nov-91	04:45:14 PM	10.178	38.50	0.05	7	15-Nov-91 05:14:14 PM	10.034	16.83	0.19	16
13-Nov-91	04:45:44 PM	10.178	39.00	0.05	7	15-Nov-91 05:14:44 PM	10.034	17.33	0.19	15
13-Nov-91	04:46:14 PM	10.178	39.50	0.05	7	15-Nov-91 05:15:14 PM	10.041	17.83	0.19	15
13-Nov-91	04:46:44 PM	10.178	40.00	0.05	7	15-Nov-91 05:15:44 PM	10.041	18.33	0.19	14
13-Nov-91	04:47:14 PM	10.178	40.50	0.05	7	15-Nov-91 05:16:14 PM	10.041	18.83	0.19	14
13-Nov-91	04:47:44 PM	10.186	41.00	0.04	6	15-Nov-91 05:16:44 PM	10.041	19.33	0.19	14
13-Nov-91	04:48:14 PM	10.171	41.50	0.06	6	15-Nov-91 05:17:14 PM	10.041	19.83	0.19	13
13-Nov-91	04:48:44 PM	10.178	42.00	0.05	6	15-Nov-91 05:17:44 PM	10.041	20.33	0.19	13
13-Nov-91	04:49:14 PM	10.178	42.50	0.05	6	15-Nov-91 05:18:14 PM	10.041	20.83	0.19	13
13-Nov-91	04:49:44 PM	10.178	43.00	0.05	6	15-Nov-91 05:18:44 PM	10.041	21.33	0.19	12
13-Nov-91	04:50:14 PM	10.178	43.50	0.05	6	15-Nov-91 05:19:14 PM	10.041	21.83	0.19	12

UPRR SACRAMENTO
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PUMPING					RECOVERY						
Date	Time	Head	Elapsed Time (min.)	Drawdown r ² /t (feet) (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown r ² /t (feet) (ft ² /min)		
13-Nov-91	04:50:44 PM	10.171	44.00	0.06	6	15-Nov-91	05:19:44 PM	10.041	22.33	0.19	12
13-Nov-91	04:51:14 PM	10.178	44.50	0.05	6	15-Nov-91	05:20:14 PM	10.041	22.83	0.19	12
13-Nov-91	04:51:44 PM	10.171	45.00	0.06	6	15-Nov-91	05:20:44 PM	10.041	23.33	0.19	11
13-Nov-91	04:52:14 PM	10.171	45.50	0.06	6	15-Nov-91	05:21:14 PM	10.041	23.83	0.19	11
13-Nov-91	04:52:44 PM	10.178	46.00	0.05	6	15-Nov-91	05:21:44 PM	10.041	24.33	0.19	11
13-Nov-91	04:53:14 PM	10.171	46.50	0.06	6	15-Nov-91	05:22:14 PM	10.049	24.83	0.18	11
13-Nov-91	04:53:44 PM	10.171	47.00	0.06	6	15-Nov-91	05:22:44 PM	10.049	25.33	0.18	10
13-Nov-91	04:54:14 PM	10.171	47.50	0.06	6	15-Nov-91	05:23:14 PM	10.049	25.83	0.18	10
13-Nov-91	04:54:44 PM	10.171	48.00	0.06	6	15-Nov-91	05:23:44 PM	10.056	26.33	0.17	10
13-Nov-91	04:55:14 PM	10.178	48.50	0.05	5	15-Nov-91	05:24:14 PM	10.056	26.83	0.17	10
13-Nov-91	04:55:44 PM	10.171	49.00	0.06	5	15-Nov-91	05:24:44 PM	10.056	27.33	0.17	10
13-Nov-91	04:56:14 PM	10.171	49.50	0.06	5	15-Nov-91	05:25:14 PM	10.056	27.83	0.17	10
13-Nov-91	04:56:44 PM	10.171	50.00	0.06	5	15-Nov-91	05:25:44 PM	10.056	28.33	0.17	9
13-Nov-91	04:57:14 PM	10.171	50.50	0.06	5	15-Nov-91	05:26:14 PM	10.056	28.83	0.17	9
13-Nov-91	04:57:44 PM	10.171	51.00	0.06	5	15-Nov-91	05:26:44 PM	10.056	29.33	0.17	9
13-Nov-91	04:58:14 PM	10.171	51.50	0.06	5	15-Nov-91	05:27:14 PM	10.056	29.83	0.17	9
13-Nov-91	04:58:44 PM	10.171	52.00	0.06	5	15-Nov-91	05:27:44 PM	10.056	30.33	0.17	9
13-Nov-91	04:59:14 PM	10.171	52.50	0.06	5	15-Nov-91	05:28:14 PM	10.056	30.83	0.17	9
13-Nov-91	04:59:44 PM	10.171	53.00	0.06	5	15-Nov-91	05:28:44 PM	10.056	31.33	0.17	8
13-Nov-91	05:00:14 PM	10.171	53.50	0.06	5	15-Nov-91	05:29:14 PM	10.056	31.83	0.17	8
13-Nov-91	05:00:44 PM	10.171	54.00	0.06	5	15-Nov-91	05:29:44 PM	10.056	32.33	0.17	8
13-Nov-91	05:01:14 PM	10.171	54.50	0.06	5	15-Nov-91	05:30:14 PM	10.056	32.83	0.17	8
13-Nov-91	05:01:44 PM	10.171	55.00	0.06	5	15-Nov-91	05:30:44 PM	10.056	33.33	0.17	8
13-Nov-91	05:02:14 PM	10.171	55.50	0.06	5	15-Nov-91	05:31:14 PM	10.056	33.83	0.17	8
13-Nov-91	05:02:44 PM	10.171	56.00	0.06	5	15-Nov-91	05:31:44 PM	10.056	34.33	0.17	8
13-Nov-91	05:03:14 PM	10.171	56.50	0.06	5	15-Nov-91	05:32:14 PM	10.056	34.83	0.17	8
13-Nov-91	05:03:44 PM	10.164	57.00	0.06	5	15-Nov-91	05:32:44 PM	10.063	35.33	0.17	8
13-Nov-91	05:04:14 PM	10.171	57.50	0.06	5	15-Nov-91	05:33:14 PM	10.063	35.83	0.17	7
13-Nov-91	05:04:44 PM	10.171	58.00	0.06	5	15-Nov-91	05:33:44 PM	10.063	36.33	0.17	7
13-Nov-91	05:05:14 PM	10.171	58.50	0.06	5	15-Nov-91	05:34:14 PM	10.063	36.83	0.17	7
13-Nov-91	05:05:44 PM	10.171	59.00	0.06	5	15-Nov-91	05:34:44 PM	10.056	37.33	0.17	7
13-Nov-91	05:06:14 PM	10.171	59.50	0.06	4	15-Nov-91	05:35:14 PM	10.056	37.83	0.17	7
13-Nov-91	05:06:44 PM	10.171	60.00	0.06	4	15-Nov-91	05:35:44 PM	10.063	38.33	0.17	7
13-Nov-91	05:07:14 PM	10.171	61.00	0.06	4	15-Nov-91	05:36:14 PM	10.063	38.83	0.17	7
13-Nov-91	05:08:44 PM	10.171	62.00	0.06	4	15-Nov-91	05:36:44 PM	10.063	39.33	0.17	7
13-Nov-91	05:09:44 PM	10.171	63.00	0.06	4	15-Nov-91	05:37:14 PM	10.07	39.83	0.16	7
13-Nov-91	05:10:44 PM	10.164	64.00	0.06	4	15-Nov-91	05:37:44 PM	10.063	40.33	0.17	7
13-Nov-91	05:11:44 PM	10.164	65.00	0.06	4	15-Nov-91	05:38:14 PM	10.063	40.83	0.17	7
13-Nov-91	05:12:44 PM	10.164	66.00	0.06	4	15-Nov-91	05:38:44 PM	10.063	41.33	0.17	6
13-Nov-91	05:13:44 PM	10.164	67.00	0.06	4	15-Nov-91	05:39:14 PM	10.063	41.83	0.17	6
13-Nov-91	05:14:44 PM	10.164	68.00	0.06	4	15-Nov-91	05:39:44 PM	10.07	42.33	0.16	6
13-Nov-91	05:15:44 PM	10.157	69.00	0.07	4	15-Nov-91	05:40:14 PM	10.07	42.83	0.16	6
13-Nov-91	05:16:44 PM	10.157	70.00	0.07	4	15-Nov-91	05:40:44 PM	10.07	43.33	0.16	6
13-Nov-91	05:17:44 PM	10.164	71.00	0.06	4	15-Nov-91	05:41:14 PM	10.07	43.83	0.16	6
13-Nov-91	05:18:44 PM	10.157	72.00	0.07	4	15-Nov-91	05:41:44 PM	10.07	44.33	0.16	6
13-Nov-91	05:19:44 PM	10.164	73.00	0.06	4	15-Nov-91	05:42:14 PM	10.07	44.83	0.16	6

UPRR SACRAMENTO
MW-41 DATALOGGER DATA
November, 1991

PUMPING					RECOVERY						
Date	Time	Head	Elapsed Time (min.)	Drawdown r ² /t (feet) (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown r ² /t (feet) (ft ² /min)		
13-Nov-91	05:20:44 PM	10.164	74.00	0.06	4	15-Nov-91	05:42:44 PM	10.07	45.33	0.16	6
13-Nov-91	05:21:44 PM	10.157	75.00	0.07	4	15-Nov-91	05:43:14 PM	10.07	45.83	0.16	6
13-Nov-91	05:22:44 PM	10.157	76.00	0.07	3	15-Nov-91	05:43:44 PM	10.07	46.33	0.16	6
13-Nov-91	05:23:44 PM	10.157	77.00	0.07	3	15-Nov-91	05:44:14 PM	10.07	46.83	0.16	6
13-Nov-91	05:24:44 PM	10.157	78.00	0.07	3	15-Nov-91	05:44:44 PM	10.07	47.33	0.16	6
13-Nov-91	05:25:44 PM	10.157	79.00	0.07	3	15-Nov-91	05:45:14 PM	10.07	47.83	0.16	6
13-Nov-91	05:26:44 PM	10.157	80.00	0.07	3	15-Nov-91	05:45:44 PM	10.07	48.33	0.16	5
13-Nov-91	05:27:44 PM	10.157	81.00	0.07	3	15-Nov-91	05:46:14 PM	10.07	48.83	0.16	5
13-Nov-91	05:28:44 PM	10.157	82.00	0.07	3	15-Nov-91	05:46:44 PM	10.07	49.33	0.16	5
13-Nov-91	05:29:44 PM	10.157	83.00	0.07	3	15-Nov-91	05:47:14 PM	10.07	49.83	0.16	5
13-Nov-91	05:30:44 PM	10.157	84.00	0.07	3	15-Nov-91	05:47:44 PM	10.07	50.33	0.16	5
13-Nov-91	05:31:44 PM	10.157	85.00	0.07	3	15-Nov-91	05:48:14 PM	10.07	50.83	0.16	5
13-Nov-91	05:32:44 PM	10.157	86.00	0.07	3	15-Nov-91	05:48:44 PM	10.07	51.33	0.16	5
13-Nov-91	05:33:44 PM	10.157	87.00	0.07	3	15-Nov-91	05:49:14 PM	10.07	51.83	0.16	5
13-Nov-91	05:34:44 PM	10.157	88.00	0.07	3	15-Nov-91	05:49:44 PM	10.07	52.33	0.16	5
13-Nov-91	05:35:44 PM	10.157	89.00	0.07	3	15-Nov-91	05:50:14 PM	10.07	52.83	0.16	5
13-Nov-91	05:36:44 PM	10.157	90.00	0.07	3	15-Nov-91	05:50:44 PM	10.077	53.33	0.15	5
13-Nov-91	05:37:44 PM	10.157	91.00	0.07	3	15-Nov-91	05:51:14 PM	10.07	53.83	0.16	5
13-Nov-91	05:38:44 PM	10.157	92.00	0.07	3	15-Nov-91	05:51:44 PM	10.077	54.33	0.15	5
13-Nov-91	05:39:44 PM	10.157	93.00	0.07	3	15-Nov-91	05:52:14 PM	10.07	54.83	0.16	5
13-Nov-91	05:40:44 PM	10.157	94.00	0.07	3	15-Nov-91	05:52:44 PM	10.077	55.33	0.15	5
13-Nov-91	05:41:44 PM	10.157	95.00	0.07	3	15-Nov-91	05:53:14 PM	10.07	55.83	0.16	5
13-Nov-91	05:42:44 PM	10.157	96.00	0.07	3	15-Nov-91	05:53:44 PM	10.077	56.33	0.15	5
13-Nov-91	05:43:44 PM	10.15	97.00	0.08	3	15-Nov-91	05:54:14 PM	10.077	56.83	0.15	5
13-Nov-91	05:44:44 PM	10.15	98.00	0.08	3	15-Nov-91	05:54:44 PM	10.077	57.33	0.15	5
13-Nov-91	05:45:44 PM	10.157	99.00	0.07	3	15-Nov-91	05:55:14 PM	10.07	57.83	0.16	5
13-Nov-91	05:46:44 PM	10.157	100.00	0.07	3	15-Nov-91	05:55:45 PM	10.07	58.33	0.16	5
13-Nov-91	05:47:44 PM	10.15	101.00	0.08	3	15-Nov-91	05:56:44 PM	10.07	59.33	0.16	4
13-Nov-91	05:48:44 PM	10.15	102.00	0.08	3	15-Nov-91	05:57:44 PM	10.07	60.33	0.16	4
13-Nov-91	05:49:44 PM	10.15	103.00	0.08	3	15-Nov-91	05:58:44 PM	10.07	61.33	0.16	4
13-Nov-91	05:50:44 PM	10.15	104.00	0.08	3	15-Nov-91	05:59:44 PM	10.077	62.33	0.15	4
13-Nov-91	05:51:44 PM	10.15	105.00	0.08	3	15-Nov-91	06:00:44 PM	10.07	63.33	0.16	4
13-Nov-91	05:52:44 PM	10.15	106.00	0.08	3	15-Nov-91	06:01:44 PM	10.077	64.33	0.15	4
13-Nov-91	05:53:44 PM	10.15	107.00	0.08	2	15-Nov-91	06:02:44 PM	10.077	65.33	0.15	4
13-Nov-91	05:54:44 PM	10.15	108.00	0.08	2	15-Nov-91	06:03:44 PM	10.077	66.33	0.15	4
13-Nov-91	05:55:44 PM	10.15	109.00	0.08	2	15-Nov-91	06:04:44 PM	10.077	67.33	0.15	4
13-Nov-91	05:56:44 PM	10.15	110.00	0.08	2	15-Nov-91	06:05:44 PM	10.077	68.33	0.15	4
13-Nov-91	05:57:44 PM	10.142	111.00	0.09	2	15-Nov-91	06:06:44 PM	10.077	69.33	0.15	4
13-Nov-91	05:58:44 PM	10.142	112.00	0.09	2	15-Nov-91	06:07:44 PM	10.077	70.33	0.15	4
13-Nov-91	05:59:44 PM	10.142	113.00	0.09	2	15-Nov-91	06:08:44 PM	10.077	71.33	0.15	4
13-Nov-91	06:00:44 PM	10.15	114.00	0.08	2	15-Nov-91	06:09:44 PM	10.07	72.33	0.16	4
13-Nov-91	06:01:44 PM	10.142	115.00	0.09	2	15-Nov-91	06:10:44 PM	10.077	73.33	0.15	4
13-Nov-91	06:02:44 PM	10.142	116.00	0.09	2	15-Nov-91	06:11:44 PM	10.077	74.33	0.15	4
13-Nov-91	06:03:44 PM	10.142	117.00	0.09	2	15-Nov-91	06:12:44 PM	10.077	75.33	0.15	4
13-Nov-91	06:04:44 PM	10.142	118.00	0.09	2	15-Nov-91	06:13:44 PM	10.077	76.33	0.15	3
13-Nov-91	06:05:44 PM	10.142	119.00	0.09	2	15-Nov-91	06:14:44 PM	10.07	77.33	0.16	3

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RECOVERY

Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
13-Nov-91	06:06:45 PM	10.142	120.00	0.09	2	15-Nov-91	06:15:44 PM	10.077	78.33	0.15	3
13-Nov-91	06:11:44 PM	10.142	125.00	0.09	2	15-Nov-91	06:16:44 PM	10.077	79.33	0.15	3
13-Nov-91	06:16:44 PM	10.142	130.00	0.09	2	15-Nov-91	06:17:44 PM	10.077	80.33	0.15	3
13-Nov-91	06:21:44 PM	10.142	135.00	0.09	2	15-Nov-91	06:18:44 PM	10.077	81.33	0.15	3
13-Nov-91	06:26:44 PM	10.142	140.00	0.09	2	15-Nov-91	06:19:44 PM	10.077	82.33	0.15	3
13-Nov-91	06:31:44 PM	10.142	145.00	0.09	2	15-Nov-91	06:20:44 PM	10.077	83.33	0.15	3
13-Nov-91	06:36:44 PM	10.135	150.00	0.09	2	15-Nov-91	06:21:44 PM	10.077	84.33	0.15	3
13-Nov-91	06:41:44 PM	10.142	155.00	0.09	2	15-Nov-91	06:22:44 PM	10.077	85.33	0.15	3
13-Nov-91	06:46:44 PM	10.135	160.00	0.09	2	15-Nov-91	06:23:44 PM	10.077	86.33	0.15	3
13-Nov-91	06:51:44 PM	10.135	165.00	0.09	2	15-Nov-91	06:24:44 PM	10.077	87.33	0.15	3
13-Nov-91	06:56:44 PM	10.135	170.00	0.09	2	15-Nov-91	06:25:44 PM	10.077	88.33	0.15	3
13-Nov-91	07:01:44 PM	10.135	175.00	0.09	2	15-Nov-91	06:26:44 PM	10.077	89.33	0.15	3
13-Nov-91	07:06:44 PM	10.135	180.00	0.09	1	15-Nov-91	06:27:44 PM	10.077	90.33	0.15	3
13-Nov-91	07:11:44 PM	10.135	185.00	0.09	1	15-Nov-91	06:28:44 PM	10.077	91.33	0.15	3
13-Nov-91	07:16:44 PM	10.135	190.00	0.09	1	15-Nov-91	06:29:44 PM	10.077	92.33	0.15	3
13-Nov-91	07:21:44 PM	10.135	195.00	0.09	1	15-Nov-91	06:30:44 PM	10.077	93.33	0.15	3
13-Nov-91	07:26:44 PM	10.128	200.00	0.10	1	15-Nov-91	06:31:44 PM	10.085	94.33	0.14	3
13-Nov-91	07:31:44 PM	10.135	205.00	0.09	1	15-Nov-91	06:32:44 PM	10.077	95.33	0.15	3
13-Nov-91	07:36:44 PM	10.128	210.00	0.10	1	15-Nov-91	06:33:44 PM	10.085	96.33	0.14	3
13-Nov-91	07:41:44 PM	10.128	215.00	0.10	1	15-Nov-91	06:34:44 PM	10.085	97.33	0.14	3
13-Nov-91	07:46:44 PM	10.128	220.00	0.10	1	15-Nov-91	06:35:44 PM	10.077	98.33	0.15	3
13-Nov-91	07:51:44 PM	10.128	225.00	0.10	1	15-Nov-91	06:36:44 PM	10.077	99.33	0.15	3
13-Nov-91	07:56:44 PM	10.128	230.00	0.10	1	15-Nov-91	06:37:44 PM	10.077	100.33	0.15	3
13-Nov-91	08:01:44 PM	10.128	235.00	0.10	1	15-Nov-91	06:38:44 PM	10.077	101.33	0.15	3
13-Nov-91	08:06:44 PM	10.128	240.00	0.10	1	15-Nov-91	06:39:44 PM	10.077	102.33	0.15	3
13-Nov-91	08:11:44 PM	10.128	245.00	0.10	1	15-Nov-91	06:40:44 PM	10.077	103.33	0.15	3
13-Nov-91	08:16:44 PM	10.128	250.00	0.10	1	15-Nov-91	06:41:44 PM	10.077	104.33	0.15	3
13-Nov-91	08:21:44 PM	10.128	255.00	0.10	1	15-Nov-91	06:42:44 PM	10.077	105.33	0.15	3
13-Nov-91	08:26:44 PM	10.128	260.00	0.10	1	15-Nov-91	06:43:44 PM	10.085	106.33	0.14	2
13-Nov-91	08:31:44 PM	10.121	265.00	0.11	1	15-Nov-91	06:44:44 PM	10.085	107.33	0.14	2
13-Nov-91	08:36:44 PM	10.128	270.00	0.10	1	15-Nov-91	06:45:44 PM	10.085	108.33	0.14	2
13-Nov-91	08:41:44 PM	10.128	275.00	0.10	1	15-Nov-91	06:46:44 PM	10.077	109.33	0.15	2
13-Nov-91	08:46:44 PM	10.128	280.00	0.10	1	15-Nov-91	06:47:44 PM	10.085	110.33	0.14	2
13-Nov-91	08:51:44 PM	10.121	285.00	0.11	1	15-Nov-91	06:48:44 PM	10.085	111.33	0.14	2
13-Nov-91	08:56:44 PM	10.121	290.00	0.11	1	15-Nov-91	06:49:44 PM	10.085	112.33	0.14	2
13-Nov-91	09:01:44 PM	10.121	295.00	0.11	1	15-Nov-91	06:50:44 PM	10.077	113.33	0.15	2
13-Nov-91	09:06:44 PM	10.121	300.00	0.11	1	15-Nov-91	06:51:44 PM	10.077	114.33	0.15	2
13-Nov-91	09:11:44 PM	10.128	305.00	0.10	1	15-Nov-91	06:52:44 PM	10.085	115.33	0.14	2
13-Nov-91	09:16:44 PM	10.128	310.00	0.10	1	15-Nov-91	06:53:44 PM	10.085	116.33	0.14	2
13-Nov-91	09:21:44 PM	10.128	315.00	0.10	1	15-Nov-91	06:54:44 PM	10.085	117.33	0.14	2
13-Nov-91	09:26:44 PM	10.128	320.00	0.10	1	15-Nov-91	06:55:44 PM	10.085	118.33	0.14	2
13-Nov-91	09:31:44 PM	10.128	325.00	0.10	1	15-Nov-91	07:00:44 PM	10.085	123.33	0.14	2
13-Nov-91	09:36:44 PM	10.128	330.00	0.10	1	15-Nov-91	07:05:44 PM	10.085	128.33	0.14	2
13-Nov-91	09:41:44 PM	10.128	335.00	0.10	1	15-Nov-91	07:10:44 PM	10.085	133.33	0.14	2
13-Nov-91	09:46:44 PM	10.121	340.00	0.11	1	15-Nov-91	07:15:44 PM	10.085	138.33	0.14	2
13-Nov-91	09:51:44 PM	10.121	345.00	0.11	1	15-Nov-91	07:20:44 PM	10.085	143.33	0.14	2

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Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
13-Nov-91	09:56:44 PM	10.121	350.00	0.11	1	15-Nov-91	07:25:44 PM	10.092	148.33	0.14	2
13-Nov-91	10:01:44 PM	10.128	355.00	0.10	1	15-Nov-91	07:30:44 PM	10.092	153.33	0.14	2
13-Nov-91	10:06:44 PM	10.121	360.00	0.11	1	15-Nov-91	07:35:44 PM	10.099	158.33	0.13	2
13-Nov-91	10:11:44 PM	10.121	365.00	0.11	1	15-Nov-91	07:40:44 PM	10.099	163.33	0.13	2
13-Nov-91	10:16:44 PM	10.128	370.00	0.10	1	15-Nov-91	07:45:44 PM	10.099	168.33	0.13	2
13-Nov-91	10:21:44 PM	10.121	375.00	0.11	1	15-Nov-91	07:50:44 PM	10.099	173.33	0.13	2
13-Nov-91	10:26:44 PM	10.121	380.00	0.11	1	15-Nov-91	07:55:44 PM	10.099	178.33	0.13	1
13-Nov-91	10:31:44 PM	10.121	385.00	0.11	1	15-Nov-91	08:00:44 PM	10.099	183.33	0.13	1
13-Nov-91	10:36:44 PM	10.121	390.00	0.11	1	15-Nov-91	08:05:44 PM	10.099	188.33	0.13	1
13-Nov-91	10:41:44 PM	10.121	395.00	0.11	1	15-Nov-91	08:10:44 PM	10.099	193.33	0.13	1
13-Nov-91	10:46:44 PM	10.121	400.00	0.11	1	15-Nov-91	08:15:44 PM	10.099	198.33	0.13	1
13-Nov-91	10:51:44 PM	10.121	405.00	0.11	1	15-Nov-91	08:20:44 PM	10.099	203.33	0.13	1
13-Nov-91	10:56:44 PM	10.121	410.00	0.11	1	15-Nov-91	08:25:44 PM	10.099	208.33	0.13	1
13-Nov-91	11:01:44 PM	10.121	415.00	0.11	1	15-Nov-91	08:30:44 PM	10.099	213.33	0.13	1
13-Nov-91	11:06:44 PM	10.121	420.00	0.11	1	15-Nov-91	08:35:44 PM	10.099	218.33	0.13	1
13-Nov-91	11:21:44 PM	10.121	435.00	0.11	1	15-Nov-91	08:40:44 PM	10.099	223.33	0.13	1
13-Nov-91	11:36:44 PM	10.113	450.00	0.12	1	15-Nov-91	08:45:44 PM	10.099	228.33	0.13	1
13-Nov-91	11:51:44 PM	10.113	465.00	0.12	1	15-Nov-91	08:50:44 PM	10.099	233.33	0.13	1
14-Nov-91	12:06:44 AM	10.113	480.00	0.12	1	15-Nov-91	08:55:44 PM	10.099	238.33	0.13	1
14-Nov-91	12:21:44 AM	10.113	495.00	0.12	1	15-Nov-91	09:00:44 PM	10.099	243.33	0.13	1
14-Nov-91	12:36:44 AM	10.113	510.00	0.12	1	15-Nov-91	09:05:44 PM	10.099	248.33	0.13	1
14-Nov-91	12:51:44 AM	10.113	525.00	0.12	1	15-Nov-91	09:10:44 PM	10.099	253.33	0.13	1
14-Nov-91	01:06:44 AM	10.113	540.00	0.12	0	15-Nov-91	09:15:44 PM	10.106	258.33	0.12	1
14-Nov-91	01:21:44 AM	10.113	555.00	0.12	0	15-Nov-91	09:20:44 PM	10.099	263.33	0.13	1
14-Nov-91	01:36:44 AM	10.106	570.00	0.12	0	15-Nov-91	09:25:44 PM	10.099	268.33	0.13	1
14-Nov-91	01:51:44 AM	10.106	585.00	0.12	0	15-Nov-91	09:30:44 PM	10.106	273.33	0.12	1
14-Nov-91	02:06:44 AM	10.099	600.00	0.13	0	15-Nov-91	09:35:44 PM	10.106	278.33	0.12	1
14-Nov-91	02:21:44 AM	10.106	615.00	0.12	0	15-Nov-91	09:40:44 PM	10.106	283.33	0.12	1
14-Nov-91	02:36:44 AM	10.099	630.00	0.13	0	15-Nov-91	09:45:44 PM	10.106	288.33	0.12	1
14-Nov-91	02:51:44 AM	10.099	645.00	0.13	0	15-Nov-91	09:50:44 PM	10.106	293.33	0.12	1
14-Nov-91	03:06:44 AM	10.106	660.00	0.12	0	15-Nov-91	09:55:44 PM	10.106	298.33	0.12	1
14-Nov-91	03:21:44 AM	10.106	675.00	0.12	0	15-Nov-91	10:00:44 PM	10.106	303.33	0.12	1
14-Nov-91	03:36:44 AM	10.106	690.00	0.12	0	15-Nov-91	10:05:44 PM	10.106	308.33	0.12	1
14-Nov-91	03:51:44 AM	10.106	705.00	0.12	0	15-Nov-91	10:10:44 PM	10.113	313.33	0.12	1
14-Nov-91	04:06:44 AM	10.099	720.00	0.13	0	15-Nov-91	10:15:44 PM	10.113	318.33	0.12	1
14-Nov-91	04:21:44 AM	10.099	735.00	0.13	0	15-Nov-91	10:20:44 PM	10.113	323.33	0.12	1
14-Nov-91	04:36:44 AM	10.099	750.00	0.13	0	15-Nov-91	10:25:44 PM	10.113	328.33	0.12	1
14-Nov-91	04:51:44 AM	10.099	765.00	0.13	0	15-Nov-91	10:30:44 PM	10.113	333.33	0.12	1
14-Nov-91	05:06:44 AM	10.099	780.00	0.13	0	15-Nov-91	10:35:44 PM	10.113	338.33	0.12	1
14-Nov-91	05:21:44 AM	10.099	795.00	0.13	0	15-Nov-91	10:40:44 PM	10.113	343.33	0.12	1
14-Nov-91	05:36:44 AM	10.099	810.00	0.13	0	15-Nov-91	10:45:44 PM	10.106	348.33	0.12	1
14-Nov-91	05:51:44 AM	10.099	825.00	0.13	0	15-Nov-91	10:50:44 PM	10.106	353.33	0.12	1
14-Nov-91	06:06:44 AM	10.099	840.00	0.13	0	15-Nov-91	10:55:44 PM	10.106	358.33	0.12	1
14-Nov-91	06:21:44 AM	10.092	855.00	0.14	0	15-Nov-91	11:00:44 PM	10.106	363.33	0.12	1
14-Nov-91	06:36:44 AM	10.092	870.00	0.14	0	15-Nov-91	11:05:44 PM	10.106	368.33	0.12	1
14-Nov-91	06:51:44 AM	10.092	885.00	0.14	0	15-Nov-91	11:10:44 PM	10.106	373.33	0.12	1

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Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
14-Nov-91	07:06:44 AM	10.092	900.00	0.14	0	15-Nov-91	11:15:44 PM	10.106	378.33	0.12	1
14-Nov-91	07:21:44 AM	10.085	915.00	0.14	0	15-Nov-91	11:20:44 PM	10.106	383.33	0.12	1
14-Nov-91	07:36:44 AM	10.092	930.00	0.14	0	15-Nov-91	11:25:44 PM	10.106	388.33	0.12	1
14-Nov-91	07:51:44 AM	10.085	945.00	0.14	0	15-Nov-91	11:30:44 PM	10.106	393.33	0.12	1
14-Nov-91	08:06:44 AM	10.085	960.00	0.14	0	15-Nov-91	11:35:44 PM	10.113	398.33	0.12	1
14-Nov-91	08:21:44 AM	10.085	975.00	0.14	0	15-Nov-91	11:40:44 PM	10.106	403.33	0.12	1
14-Nov-91	08:36:44 AM	10.085	990.00	0.14	0	15-Nov-91	11:45:44 PM	10.113	408.33	0.12	1
14-Nov-91	08:51:44 AM	10.092	1005.00	0.14	0	15-Nov-91	11:50:44 PM	10.113	413.33	0.12	1
14-Nov-91	09:06:44 AM	10.092	1020.00	0.14	0	15-Nov-91	11:55:45 PM	10.113	418.33	0.12	1
14-Nov-91	09:21:44 AM	10.085	1035.00	0.14	0	16-Nov-91	12:10:44 AM	10.113	433.33	0.12	1
14-Nov-91	09:36:44 AM	10.077	1050.00	0.15	0	16-Nov-91	12:25:44 AM	10.113	448.33	0.12	1
14-Nov-91	09:51:44 AM	10.092	1065.00	0.14	0	16-Nov-91	12:40:44 AM	10.121	463.33	0.11	1
14-Nov-91	10:06:44 AM	10.092	1080.00	0.14	0	16-Nov-91	12:55:44 AM	10.121	478.33	0.11	1
14-Nov-91	10:21:45 AM	10.077	1095.00	0.15	0	16-Nov-91	01:10:44 AM	10.121	493.33	0.11	1
14-Nov-91	10:36:44 AM	10.092	1110.00	0.14	0	16-Nov-91	01:25:44 AM	10.121	508.33	0.11	1
14-Nov-91	10:51:44 AM	10.092	1125.00	0.14	0	16-Nov-91	01:40:44 AM	10.121	523.33	0.11	1
14-Nov-91	11:06:44 AM	10.085	1140.00	0.14	0	16-Nov-91	01:55:44 AM	10.121	538.33	0.11	0
14-Nov-91	11:21:44 AM	10.092	1155.00	0.14	0	16-Nov-91	02:10:44 AM	10.121	553.33	0.11	0
14-Nov-91	11:36:44 AM	10.085	1170.00	0.14	0	16-Nov-91	02:25:44 AM	10.128	568.33	0.10	0
14-Nov-91	11:51:44 AM	10.085	1185.00	0.14	0	16-Nov-91	02:40:44 AM	10.128	583.33	0.10	0
14-Nov-91	12:06:44 PM	10.099	1200.00	0.13	0	16-Nov-91	02:55:44 AM	10.128	598.33	0.10	0
14-Nov-91	12:21:44 PM	10.085	1215.00	0.14	0	16-Nov-91	03:10:44 AM	10.135	613.33	0.09	0
14-Nov-91	12:36:44 PM	10.085	1230.00	0.14	0	16-Nov-91	03:25:44 AM	10.135	628.33	0.09	0
14-Nov-91	12:51:44 PM	10.092	1245.00	0.14	0	16-Nov-91	03:40:44 AM	10.142	643.33	0.09	0
14-Nov-91	01:06:44 PM	10.085	1260.00	0.14	0	16-Nov-91	03:55:44 AM	10.135	658.33	0.09	0
14-Nov-91	01:21:44 PM	10.085	1275.00	0.14	0	16-Nov-91	04:10:44 AM	10.135	673.33	0.09	0
14-Nov-91	01:36:44 PM	10.092	1290.00	0.14	0	16-Nov-91	04:25:44 AM	10.135	688.33	0.09	0
14-Nov-91	01:51:44 PM	10.085	1305.00	0.14	0	16-Nov-91	04:40:44 AM	10.128	703.33	0.10	0
14-Nov-91	02:06:44 PM	10.085	1320.00	0.14	0	16-Nov-91	04:55:44 AM	10.128	718.33	0.10	0
14-Nov-91	02:21:44 PM	10.085	1335.00	0.14	0	16-Nov-91	05:10:44 AM	10.135	733.33	0.09	0
14-Nov-91	02:36:44 PM	10.085	1350.00	0.14	0	16-Nov-91	05:25:44 AM	10.128	748.33	0.10	0
14-Nov-91	02:51:44 PM	10.077	1365.00	0.15	0	16-Nov-91	05:40:44 AM	10.135	763.33	0.09	0
14-Nov-91	03:06:44 PM	10.085	1380.00	0.14	0	16-Nov-91	05:55:44 AM	10.135	778.33	0.09	0
14-Nov-91	03:21:44 PM	10.077	1395.00	0.15	0	16-Nov-91	06:10:44 AM	10.128	793.33	0.10	0
14-Nov-91	03:36:44 PM	10.07	1410.00	0.16	0	16-Nov-91	06:25:44 AM	10.128	808.33	0.10	0
14-Nov-91	03:51:44 PM	10.07	1425.00	0.16	0	16-Nov-91	06:40:44 AM	10.135	823.33	0.09	0
14-Nov-91	04:06:44 PM	10.063	1440.00	0.17	0	16-Nov-91	06:55:44 AM	10.128	838.33	0.10	0
14-Nov-91	04:21:44 PM	10.07	1455.00	0.16	0	16-Nov-91	07:10:44 AM	10.128	853.33	0.10	0
14-Nov-91	04:36:44 PM	10.07	1470.00	0.16	0	16-Nov-91	07:25:44 AM	10.128	868.33	0.10	0
14-Nov-91	04:51:44 PM	10.063	1485.00	0.17	0	16-Nov-91	07:40:44 AM	10.128	883.33	0.10	0
14-Nov-91	05:06:44 PM	10.056	1500.00	0.17	0	16-Nov-91	07:55:44 AM	10.128	898.33	0.10	0
14-Nov-91	05:21:44 PM	10.056	1515.00	0.17	0	16-Nov-91	08:10:44 AM	10.128	913.33	0.10	0
14-Nov-91	05:36:44 PM	10.056	1530.00	0.17	0	16-Nov-91	08:25:44 AM	10.128	928.33	0.10	0
14-Nov-91	05:51:44 PM	10.056	1545.00	0.17	0	16-Nov-91	08:40:44 AM	10.135	943.33	0.09	0
14-Nov-91	06:06:44 PM	10.049	1560.00	0.18	0	16-Nov-91	08:55:44 AM	10.135	958.33	0.09	0
14-Nov-91	06:21:44 PM	10.049	1575.00	0.18	0	16-Nov-91	09:10:44 AM	10.142	973.33	0.09	0

UPRR SACRAMENTO
MW-41 DATALOGGER DATA
November, 1991

PUMPING

RECOVERY

Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
14-Nov-91	06:36:44 PM	10.056	1590.00	0.17	0	16-Nov-91	09:25:44 AM	10.142	988.33	0.09	0
14-Nov-91	06:51:44 PM	10.049	1605.00	0.18	0	16-Nov-91	09:40:44 AM	10.142	1003.33	0.09	0
14-Nov-91	07:06:44 PM	10.049	1620.00	0.18	0	16-Nov-91	09:55:44 AM	10.142	1018.33	0.09	0
14-Nov-91	07:21:44 PM	10.041	1635.00	0.19	0	16-Nov-91	10:10:44 AM	10.15	1033.33	0.08	0
14-Nov-91	07:36:44 PM	10.041	1650.00	0.19	0	16-Nov-91	10:25:44 AM	10.15	1048.33	0.08	0
14-Nov-91	07:51:44 PM	10.049	1665.00	0.18	0	16-Nov-91	10:40:44 AM	10.15	1063.33	0.08	0
14-Nov-91	08:06:44 PM	10.049	1680.00	0.18	0	16-Nov-91	10:55:44 AM	10.164	1078.33	0.06	0
14-Nov-91	08:21:44 PM	10.049	1695.00	0.18	0	16-Nov-91	11:10:44 AM	10.157	1093.33	0.07	0
14-Nov-91	08:36:44 PM	10.041	1710.00	0.19	0	16-Nov-91	11:25:44 AM	10.157	1108.33	0.07	0
14-Nov-91	08:51:44 PM	10.041	1725.00	0.19	0	16-Nov-91	11:40:44 AM	10.157	1123.33	0.07	0
14-Nov-91	09:06:44 PM	10.049	1740.00	0.18	0	16-Nov-91	11:55:44 AM	10.171	1138.33	0.06	0
14-Nov-91	09:21:44 PM	10.049	1755.00	0.18	0	16-Nov-91	12:10:44 PM	10.171	1153.33	0.06	0
14-Nov-91	09:36:44 PM	10.041	1770.00	0.19	0	16-Nov-91	12:25:44 PM	10.178	1168.33	0.05	0
14-Nov-91	09:51:44 PM	10.034	1785.00	0.19	0	16-Nov-91	12:40:44 PM	10.186	1183.33	0.04	0
14-Nov-91	10:06:44 PM	10.034	1800.00	0.19	0	16-Nov-91	12:55:44 PM	10.186	1198.33	0.04	0
14-Nov-91	10:21:44 PM	10.034	1815.00	0.19	0	16-Nov-91	01:10:44 PM	10.186	1213.33	0.04	0
14-Nov-91	10:36:44 PM	10.034	1830.00	0.19	0	16-Nov-91	01:25:44 PM	10.186	1228.33	0.04	0
14-Nov-91	10:51:44 PM	10.034	1845.00	0.19	0	16-Nov-91	01:40:44 PM	10.178	1243.33	0.05	0
14-Nov-91	11:06:44 PM	10.041	1860.00	0.19	0	16-Nov-91	01:55:44 PM	10.178	1258.33	0.05	0
14-Nov-91	11:36:44 PM	10.034	1890.00	0.19	0	16-Nov-91	02:10:44 PM	10.186	1273.33	0.04	0
15-Nov-91	12:06:44 AM	10.034	1920.00	0.19	0	16-Nov-91	02:25:44 PM	10.186	1288.33	0.04	0
15-Nov-91	12:36:44 AM	10.034	1950.00	0.19	0	16-Nov-91	02:40:44 PM	10.178	1303.33	0.05	0
15-Nov-91	01:06:44 AM	10.041	1980.00	0.19	0	16-Nov-91	02:55:44 PM	10.178	1318.33	0.05	0
15-Nov-91	01:36:44 AM	10.027	2010.00	0.20	0	16-Nov-91	03:10:44 PM	10.178	1333.33	0.05	0
15-Nov-91	02:06:44 AM	10.034	2040.00	0.19	0	16-Nov-91	03:25:44 PM	10.178	1348.33	0.05	0
15-Nov-91	02:36:44 AM	10.027	2070.00	0.20	0	16-Nov-91	03:40:44 PM	10.178	1363.33	0.05	0
15-Nov-91	03:06:44 AM	10.034	2100.00	0.19	0	16-Nov-91	03:55:44 PM	10.171	1378.33	0.06	0
15-Nov-91	03:36:44 AM	10.041	2130.00	0.19	0	16-Nov-91	04:10:44 PM	10.171	1393.33	0.06	0
15-Nov-91	04:06:44 AM	10.027	2160.00	0.20	0	16-Nov-91	04:25:44 PM	10.171	1408.33	0.06	0
15-Nov-91	04:36:44 AM	10.027	2190.00	0.20	0	16-Nov-91	04:40:44 PM	10.178	1423.33	0.05	0
15-Nov-91	05:06:44 AM	10.027	2220.00	0.20	0	16-Nov-91	04:55:44 PM	10.171	1438.33	0.06	0
15-Nov-91	05:36:44 AM	10.027	2250.00	0.20	0	16-Nov-91	05:10:44 PM	10.171	1453.33	0.06	0
15-Nov-91	06:06:44 AM	10.02	2280.00	0.21	0	16-Nov-91	05:25:44 PM	10.186	1468.33	0.04	0
15-Nov-91	06:36:44 AM	10.02	2310.00	0.21	0	16-Nov-91	05:40:44 PM	10.186	1483.33	0.04	0
15-Nov-91	07:06:44 AM	10.02	2340.00	0.21	0	16-Nov-91	05:55:44 PM	10.186	1498.33	0.04	0
15-Nov-91	07:36:44 AM	10.02	2370.00	0.21	0	16-Nov-91	06:10:44 PM	10.178	1513.33	0.05	0
15-Nov-91	08:06:44 AM	10.012	2400.00	0.22	0	16-Nov-91	06:25:44 PM	10.171	1528.33	0.06	0
15-Nov-91	08:36:44 AM	10.02	2430.00	0.21	0	16-Nov-91	06:40:44 PM	10.171	1543.33	0.06	0
15-Nov-91	09:06:44 AM	10.02	2460.00	0.21	0	16-Nov-91	06:55:44 PM	10.164	1558.33	0.06	0
15-Nov-91	09:36:44 AM	10.027	2490.00	0.20	0	16-Nov-91	07:10:44 PM	10.178	1573.33	0.05	0
15-Nov-91	10:06:44 AM	10.027	2520.00	0.20	0	16-Nov-91	07:25:44 PM	10.178	1588.33	0.05	0
15-Nov-91	10:36:44 AM	10.027	2550.00	0.20	0	16-Nov-91	07:40:44 PM	10.178	1603.33	0.05	0
15-Nov-91	11:06:44 AM	10.027	2580.00	0.20	0	16-Nov-91	07:55:44 PM	10.178	1618.33	0.05	0
15-Nov-91	11:36:44 AM	10.027	2610.00	0.20	0	16-Nov-91	08:10:44 PM	10.178	1633.33	0.05	0
15-Nov-91	12:06:44 PM	10.027	2640.00	0.20	0	16-Nov-91	08:25:44 PM	10.186	1648.33	0.04	0
15-Nov-91	12:36:44 PM	10.034	2670.00	0.19	0	16-Nov-91	08:40:44 PM	10.186	1663.33	0.04	0

UPRR SACRAMENTO
MW-41 DATALOGGER DATA
November, 1991

PUMPING					RECOVERY						
Date	Time	Head	Elapsed Time (min.)	Drawdown r ² /t (feet) (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown r ² /t (feet) (ft ² /min)		
15-Nov-91	01:06:44 PM	10.034	2700.00	0.19	0	16-Nov-91	08:55:44 PM	10.186	1678.33	0.04	0
15-Nov-91	01:36:44 PM	10.027	2730.00	0.20	0	16-Nov-91	09:10:44 PM	10.186	1693.33	0.04	0
15-Nov-91	02:06:44 PM	10.027	2760.00	0.20	0	16-Nov-91	09:25:44 PM	10.193	1708.33	0.04	0
15-Nov-91	02:36:44 PM	10.027	2790.00	0.20	0	16-Nov-91	09:40:44 PM	10.193	1723.33	0.04	0
15-Nov-91	03:06:44 PM	10.02	2820.00	0.21	0	16-Nov-91	09:55:44 PM	10.193	1738.33	0.04	0
15-Nov-91	03:36:44 PM	10.012	2850.00	0.22	0	16-Nov-91	10:10:44 PM	10.193	1753.33	0.04	0
15-Nov-91	04:06:44 PM	10.02	2880.00	0.21	0	16-Nov-91	10:25:44 PM	10.2	1768.33	0.03	0
15-Nov-91	04:45:18 PM	10.012	2918.56	0.22	0	16-Nov-91	10:40:44 PM	10.2	1783.33	0.03	0
15-Nov-91	04:45:24 PM	10.02	2918.65	0.21	0	16-Nov-91	10:55:44 PM	10.2	1798.33	0.03	0
15-Nov-91	04:45:28 PM	10.02	2918.73	0.21	0	16-Nov-91	11:10:44 PM	10.207	1813.33	0.02	0
15-Nov-91	04:45:34 PM	10.02	2918.82	0.21	0	16-Nov-91	11:25:44 PM	10.2	1828.33	0.03	0
15-Nov-91	04:45:38 PM	10.012	2918.90	0.22	0	16-Nov-91	11:40:44 PM	10.207	1843.33	0.02	0
15-Nov-91	04:45:44 PM	10.012	2918.99	0.22	0	16-Nov-91	11:55:45 PM	10.215	1858.33	0.01	0
15-Nov-91	04:45:48 PM	10.012	2919.07	0.22	0	17-Nov-91	12:25:44 AM	10.215	1888.33	0.01	0
15-Nov-91	04:45:53 PM	10.02	2919.15	0.21	0	17-Nov-91	12:55:44 AM	10.215	1918.33	0.01	0
15-Nov-91	04:45:59 PM	10.02	2919.24	0.21	0	17-Nov-91	01:25:44 AM	10.215	1948.33	0.01	0
15-Nov-91	04:46:03 PM	10.02	2919.32	0.21	0	17-Nov-91	01:55:44 AM	10.215	1978.33	0.01	0
15-Nov-91	04:46:09 PM	10.012	2919.41	0.22	0	17-Nov-91	02:25:44 AM	10.215	2008.33	0.01	0
15-Nov-91	04:46:13 PM	10.02	2919.48	0.21	0	17-Nov-91	02:55:44 AM	10.215	2038.33	0.01	0
15-Nov-91	04:46:19 PM	10.012	2919.57	0.22	0	17-Nov-91	03:25:44 AM	10.215	2068.33	0.01	0
15-Nov-91	04:46:23 PM	10.012	2919.65	0.22	0	17-Nov-91	03:55:44 AM	10.207	2098.33	0.02	0
15-Nov-91	04:46:28 PM	10.012	2919.73	0.22	0	17-Nov-91	04:25:44 AM	10.2	2128.33	0.03	0
15-Nov-91	04:46:34 PM	10.012	2919.82	0.22	0	17-Nov-91	04:55:44 AM	10.207	2158.33	0.02	0
15-Nov-91	04:46:38 PM	10.02	2919.90	0.21	0	17-Nov-91	05:25:44 AM	10.207	2188.33	0.02	0
15-Nov-91	04:46:44 PM	10.012	2919.99	0.22	0	17-Nov-91	05:55:44 AM	10.2	2218.33	0.03	0
15-Nov-91	04:46:48 PM	10.012	2920.07	0.22	0	17-Nov-91	06:25:44 AM	10.2	2248.33	0.03	0
15-Nov-91	04:46:54 PM	10.012	2920.16	0.22	0	17-Nov-91	06:55:44 AM	10.207	2278.33	0.02	0
15-Nov-91	04:46:58 PM	10.012	2920.23	0.22	0	17-Nov-91	07:25:44 AM	10.215	2308.33	0.01	0
15-Nov-91	04:47:03 PM	10.02	2920.32	0.21	0	17-Nov-91	07:55:44 AM	10.207	2338.33	0.02	0
15-Nov-91	04:47:09 PM	10.02	2920.40	0.21	0	17-Nov-91	08:25:44 AM	10.207	2368.33	0.02	0
15-Nov-91	04:47:13 PM	10.02	2920.48	0.21	0	17-Nov-91	08:55:44 AM	10.207	2398.33	0.02	0
15-Nov-91	04:47:19 PM	10.012	2920.57	0.22	0	17-Nov-91	09:25:44 AM	10.2	2428.33	0.03	0
15-Nov-91	04:47:23 PM	10.02	2920.65	0.21	0	17-Nov-91	09:55:44 AM	10.193	2458.33	0.04	0
15-Nov-91	04:47:29 PM	10.02	2920.74	0.21	0	17-Nov-91	10:25:44 AM	10.2	2488.33	0.03	0
15-Nov-91	04:47:33 PM	10.012	2920.82	0.22	0	17-Nov-91	10:55:44 AM	10.207	2518.33	0.02	0
15-Nov-91	04:47:38 PM	10.02	2920.90	0.21	0	17-Nov-91	11:25:44 AM	10.215	2548.33	0.01	0
15-Nov-91	04:47:44 PM	10.02	2920.99	0.21	0	17-Nov-91	11:55:44 AM	10.215	2578.33	0.01	0
15-Nov-91	04:47:48 PM	10.012	2921.07	0.22	0	17-Nov-91	12:25:44 PM	10.215	2608.33	0.01	0
15-Nov-91	04:47:54 PM	10.02	2921.16	0.21	0	17-Nov-91	12:55:44 PM	10.215	2638.33	0.01	0
15-Nov-91	04:47:58 PM	10.012	2921.23	0.22	0	17-Nov-91	01:25:44 PM	10.215	2668.33	0.01	0
15-Nov-91	04:48:04 PM	10.012	2921.32	0.22	0	17-Nov-91	01:55:44 PM	10.215	2698.33	0.01	0
15-Nov-91	04:48:08 PM	10.02	2921.40	0.21	0	17-Nov-91	02:25:44 PM	10.215	2728.33	0.01	0
15-Nov-91	04:48:13 PM	10.012	2921.48	0.22	0						
15-Nov-91	04:48:19 PM	10.012	2921.57	0.22	0						
15-Nov-91	04:48:23 PM	10.012	2921.65	0.22	0						
15-Nov-91	04:48:29 PM	10.02	2921.74	0.21	0						

UPRR SACRAMENTO
 MW-41 DATALOGGER DATA
 November, 1991

PUMPING

RECOVERY

Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
15-Nov-91	04:48:33 PM	10.02	2921.82	0.21	0						
15-Nov-91	04:48:39 PM	10.012	2921.91	0.22	0						
15-Nov-91	04:48:43 PM	10.012	2921.98	0.22	0						
15-Nov-91	04:48:48 PM	10.012	2922.07	0.22	0						
15-Nov-91	04:48:54 PM	10.02	2922.16	0.21	0						
15-Nov-91	04:48:58 PM	10.012	2922.23	0.22	0						
15-Nov-91	04:49:04 PM	10.012	2922.32	0.22	0						
15-Nov-91	04:49:08 PM	10.012	2922.40	0.22	0						
15-Nov-91	04:49:14 PM	10.012	2922.49	0.22	0						
15-Nov-91	04:49:18 PM	10.012	2922.57	0.22	0						
15-Nov-91	04:49:23 PM	10.012	2922.65	0.22	0						
15-Nov-91	04:49:29 PM	10.012	2922.74	0.22	0						
15-Nov-91	04:49:33 PM	10.012	2922.82	0.22	0						
15-Nov-91	04:49:39 PM	10.012	2922.90	0.22	0						
15-Nov-91	04:49:43 PM	10.012	2922.98	0.22	0						
15-Nov-91	04:49:49 PM	10.012	2923.07	0.22	0						
15-Nov-91	04:49:53 PM	10.012	2923.15	0.22	0						
15-Nov-91	04:49:58 PM	10.012	2923.23	0.22	0						
15-Nov-91	04:50:04 PM	10.012	2923.32	0.22	0						
15-Nov-91	04:50:08 PM	10.012	2923.40	0.22	0						
15-Nov-91	04:50:14 PM	10.012	2923.49	0.22	0						
15-Nov-91	04:50:18 PM	10.012	2923.57	0.22	0						
15-Nov-91	04:50:24 PM	10.012	2923.66	0.22	0						
15-Nov-91	04:50:28 PM	10.012	2923.73	0.22	0						
15-Nov-91	04:50:33 PM	10.012	2923.82	0.22	0						
15-Nov-91	04:50:39 PM	10.012	2923.91	0.22	0						
15-Nov-91	04:50:43 PM	10.02	2923.98	0.21	0						
15-Nov-91	04:50:49 PM	10.02	2924.07	0.21	0						
15-Nov-91	04:50:53 PM	10.012	2924.15	0.22	0						
15-Nov-91	04:50:59 PM	10.012	2924.24	0.22	0						
15-Nov-91	04:51:03 PM	10.012	2924.32	0.22	0						
15-Nov-91	04:51:08 PM	10.012	2924.40	0.22	0						
15-Nov-91	04:51:14 PM	10.012	2924.49	0.22	0						
15-Nov-91	04:51:18 PM	10.012	2924.57	0.22	0						
15-Nov-91	04:51:24 PM	10.02	2924.66	0.21	0						
15-Nov-91	04:51:28 PM	10.012	2924.73	0.22	0						
15-Nov-91	04:51:34 PM	10.012	2924.82	0.22	0						
15-Nov-91	04:51:38 PM	10.012	2924.90	0.22	0						
15-Nov-91	04:51:43 PM	10.012	2924.98	0.22	0						
15-Nov-91	04:51:49 PM	10.012	2925.07	0.22	0						
15-Nov-91	04:51:53 PM	10.012	2925.15	0.22	0						
15-Nov-91	04:51:59 PM	10.012	2925.24	0.22	0						
15-Nov-91	04:52:03 PM	10.012	2925.32	0.22	0						
15-Nov-91	04:52:09 PM	10.012	2925.40	0.22	0						
15-Nov-91	04:52:13 PM	10.02	2925.48	0.21	0						
15-Nov-91	04:52:18 PM	10.012	2925.57	0.22	0						

UPRR SACRAMENTO
MW-41 DATALOGGER DATA
November, 1991

PUMPING

RECOVERY

Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
15-Nov-91	04:52:24 PM	10.012	2925.66	0.22	0						
15-Nov-91	04:52:28 PM	10.012	2925.73	0.22	0						
15-Nov-91	04:52:34 PM	10.012	2925.82	0.22	0						
15-Nov-91	04:52:38 PM	10.012	2925.90	0.22	0						
15-Nov-91	04:52:44 PM	10.012	2925.99	0.22	0						
15-Nov-91	04:52:48 PM	10.02	2926.07	0.21	0						
15-Nov-91	04:52:53 PM	10.012	2926.15	0.22	0						
15-Nov-91	04:52:59 PM	10.012	2926.24	0.22	0						
15-Nov-91	04:53:03 PM	10.012	2926.32	0.22	0						
15-Nov-91	04:53:09 PM	10.012	2926.41	0.22	0						
15-Nov-91	04:53:13 PM	10.012	2926.48	0.22	0						
15-Nov-91	04:53:19 PM	10.012	2926.57	0.22	0						
15-Nov-91	04:53:23 PM	10.012	2926.65	0.22	0						
15-Nov-91	04:53:28 PM	10.012	2926.73	0.22	0						
15-Nov-91	04:53:34 PM	10.012	2926.82	0.22	0						
15-Nov-91	04:53:38 PM	10.012	2926.90	0.22	0						
15-Nov-91	04:53:44 PM	10.012	2926.99	0.22	0						
15-Nov-91	04:53:48 PM	10.012	2927.06	0.22	0						
15-Nov-91	04:53:54 PM	10.012	2927.15	0.22	0						
15-Nov-91	04:53:58 PM	10.012	2927.23	0.22	0						
15-Nov-91	04:54:03 PM	10.012	2927.32	0.22	0						
15-Nov-91	04:54:09 PM	10.012	2927.40	0.22	0						
15-Nov-91	04:54:13 PM	10.005	2927.48	0.22	0						
15-Nov-91	04:54:19 PM	10.012	2927.57	0.22	0						
15-Nov-91	04:54:23 PM	10.02	2927.65	0.21	0						
15-Nov-91	04:54:29 PM	10.012	2927.74	0.22	0						
15-Nov-91	04:54:33 PM	10.012	2927.82	0.22	0						
15-Nov-91	04:54:38 PM	10.02	2927.90	0.21	0						
15-Nov-91	04:54:44 PM	10.012	2927.99	0.22	0						
15-Nov-91	04:54:48 PM	10.012	2928.07	0.22	0						
15-Nov-91	04:54:54 PM	10.012	2928.16	0.22	0						
15-Nov-91	04:55:44 PM	10.012	2929.00	0.22	0						
15-Nov-91	04:55:50 PM	10.012	2929.09	0.22	0						
15-Nov-91	04:55:54 PM	10.012	2929.17	0.22	0						
15-Nov-91	04:55:59 PM	10.012	2929.25	0.22	0						
15-Nov-91	04:56:05 PM	10.02	2929.34	0.21	0						
15-Nov-91	04:56:09 PM	10.02	2929.42	0.21	0						
15-Nov-91	04:56:15 PM	10.012	2929.51	0.22	0						
15-Nov-91	04:56:19 PM	10.012	2929.58	0.22	0						
15-Nov-91	04:56:25 PM	10.012	2929.67	0.22	0						
15-Nov-91	04:56:29 PM	10.02	2929.75	0.21	0						
15-Nov-91	04:56:34 PM	10.012	2929.83	0.22	0						
15-Nov-91	04:56:40 PM	10.012	2929.92	0.22	0						
15-Nov-91	04:56:44 PM	10.012	2930.00	0.22	0						
15-Nov-91	04:56:50 PM	10.012	2930.09	0.22	0						
15-Nov-91	04:56:54 PM	10.012	2930.17	0.22	0						

UPRR SACRAMENTO
MW-18 DATALOGGER DATA
November, 1991

PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
10.121	69.50	0.01	1749	10.04	3000.23	69.51	0.09	1749
10.121	70.50	0.01	1724	10.051	3001.23	70.51	0.08	1724
10.121	71.50	0.01	1700	10.04	3002.23	71.51	0.09	1700
10.109	72.50	0.02	1677	10.04	3003.23	72.51	0.09	1676
10.121	73.50	0.01	1654	10.04	3004.23	73.51	0.09	1653
10.121	74.50	0.01	1632	10.051	3005.23	74.51	0.08	1631
10.121	75.50	0.01	1610	10.051	3006.23	75.51	0.08	1610
10.121	76.50	0.01	1589	10.04	3007.23	76.51	0.09	1589
10.121	77.50	0.01	1568	10.04	3008.23	77.51	0.09	1568
10.121	78.50	0.01	1548	10.04	3009.23	78.51	0.09	1548
10.121	79.50	0.01	1529	10.04	3010.23	79.51	0.09	1529
10.121	80.50	0.01	1510	10.051	3011.23	80.51	0.08	1510
10.121	81.50	0.01	1491	10.051	3012.23	81.51	0.08	1491
10.121	82.50	0.01	1473	10.051	3013.23	82.51	0.08	1473
10.121	83.50	0.01	1456	10.04	3014.23	83.51	0.09	1455
10.121	84.50	0.01	1439	10.04	3015.23	84.51	0.09	1438
10.121	85.50	0.01	1422	10.051	3016.23	85.51	0.08	1421
10.121	86.50	0.01	1405	10.04	3017.23	86.51	0.09	1405
10.121	87.50	0.01	1389	10.051	3018.23	87.51	0.08	1389
10.121	88.50	0.01	1373	10.04	3019.23	88.51	0.09	1373
10.121	89.50	0.01	1358	10.051	3020.23	89.51	0.08	1358
10.109	90.50	0.02	1343	10.051	3021.23	90.51	0.08	1343
10.109	91.50	0.02	1328	10.051	3022.23	91.51	0.08	1328
10.121	92.50	0.01	1314	10.051	3023.23	92.51	0.08	1314
10.121	93.50	0.01	1300	10.051	3024.23	93.51	0.08	1300
10.121	94.50	0.01	1286	10.051	3025.23	94.51	0.08	1286
10.121	95.50	0.01	1273	10.051	3026.23	95.51	0.08	1273
10.109	96.50	0.02	1260	10.051	3027.23	96.51	0.08	1259
10.121	97.50	0.01	1247	10.051	3028.23	97.51	0.08	1247
10.121	98.50	0.01	1234	10.051	3029.23	98.51	0.08	1234
10.109	99.50	0.02	1222	10.051	3030.23	99.51	0.08	1221
10.121	100.50	0.01	1209	10.051	3031.23	100.51	0.08	1209
10.109	101.50	0.02	1198	10.051	3032.23	101.51	0.08	1197
10.109	102.50	0.02	1186	10.051	3033.23	102.51	0.08	1186
10.121	103.50	0.01	1174	10.051	3034.23	103.51	0.08	1174
10.109	104.50	0.02	1163	10.051	3035.23	104.51	0.08	1163
10.109	105.50	0.02	1152	10.051	3036.23	105.51	0.08	1152
10.109	106.50	0.02	1141	10.051	3037.23	106.51	0.08	1141
10.121	107.50	0.01	1131	10.051	3038.23	107.51	0.08	1131
10.121	108.50	0.01	1120	10.063	3039.23	108.51	0.07	1120
10.121	109.50	0.01	1110	10.063	3040.23	109.51	0.07	1110
10.121	110.50	0.01	1100	10.051	3041.23	110.51	0.08	1100
10.121	111.50	0.01	1090	10.051	3042.23	111.51	0.08	1090
10.121	112.50	0.01	1080	10.051	3043.23	112.51	0.08	1080
10.121	113.50	0.01	1071	10.051	3044.23	113.51	0.08	1071

UPRR SACRAMENTO
 MW-18 DATALOGGER DATA
 November, 1991

PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
10.121	114.50	0.01	1062	10.051	3045.23	114.51	0.08	1061
10.121	115.50	0.01	1052	10.051	3046.23	115.51	0.08	1052
10.121	116.50	0.01	1043	10.051	3047.23	116.51	0.08	1043
10.121	117.50	0.01	1035	10.051	3048.23	117.51	0.08	1034
10.121	118.50	0.01	1026	10.051	3049.23	118.51	0.08	1026
10.109	123.50	0.02	984	10.051	3054.23	123.51	0.08	984
10.121	128.50	0.01	946	10.063	3059.23	128.51	0.07	946
10.121	133.50	0.01	911	10.063	3064.23	133.51	0.07	910
10.121	138.50	0.01	878	10.074	3069.23	138.51	0.06	878
10.121	143.50	0.01	847	10.074	3074.23	143.51	0.06	847
10.121	148.50	0.01	819	10.074	3079.23	148.51	0.06	818
10.121	153.50	0.01	792	10.074	3084.23	153.51	0.06	792
10.121	158.50	0.01	767	10.074	3089.23	158.51	0.06	767
10.121	163.50	0.01	743	10.086	3094.23	163.51	0.05	743
10.132	168.50	0.00	721	10.086	3099.23	168.51	0.05	721
10.121	173.50	0.01	701	10.086	3104.23	173.51	0.05	701
10.121	178.50	0.01	681	10.086	3109.23	178.51	0.05	681
10.121	183.50	0.01	662	10.086	3114.23	183.51	0.05	662
10.121	188.50	0.01	645	10.086	3119.23	188.51	0.05	645
10.121	193.50	0.01	628	10.086	3124.23	193.51	0.05	628
10.121	198.50	0.01	612	10.086	3129.23	198.51	0.05	612
10.121	203.50	0.01	597	10.086	3134.23	203.51	0.05	597
10.121	208.50	0.01	583	10.098	3139.23	208.51	0.03	583
10.121	213.50	0.01	569	10.098	3144.23	213.51	0.03	569
10.121	218.50	0.01	556	10.086	3149.23	218.51	0.05	556
10.121	223.50	0.01	544	10.086	3154.23	223.51	0.05	544
10.121	228.50	0.01	532	10.086	3159.23	228.51	0.05	532
10.121	233.50	0.01	521	10.086	3164.23	233.51	0.05	521
10.121	238.50	0.01	510	10.086	3169.23	238.51	0.05	510
10.121	243.50	0.01	499	10.098	3174.23	243.51	0.03	499
10.132	248.50	0.00	489	10.098	3179.23	248.51	0.03	489
10.132	253.50	0.00	480	10.098	3184.23	253.51	0.03	479
10.132	258.50	0.00	470	10.098	3189.23	258.51	0.03	470
10.121	263.50	0.01	461	10.098	3194.23	263.51	0.03	461
10.121	268.50	0.01	453	10.098	3199.23	268.51	0.03	453
10.132	273.50	0.00	444	10.098	3204.23	273.51	0.03	444
10.121	278.50	0.01	436	10.098	3209.23	278.51	0.03	436
10.121	283.50	0.01	429	10.109	3214.23	283.51	0.02	429
10.132	288.50	0.00	421	10.109	3219.23	288.51	0.02	421
10.132	293.50	0.00	414	10.109	3224.23	293.51	0.02	414
10.132	298.50	0.00	407	10.109	3229.23	298.51	0.02	407
10.132	303.50	0.00	401	10.109	3234.23	303.51	0.02	400
10.132	308.50	0.00	394	10.109	3239.23	308.51	0.02	394
10.132	313.50	0.00	388	10.109	3244.23	313.51	0.02	388
10.132	318.50	0.00	382	10.109	3249.23	318.51	0.02	382

UPRR SACRAMENTO
 MW-18 DATALOGGER DATA
 November, 1991

PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
10.132	323.50	0.00	376	10.109	3254.23	323.51	0.02	376
10.132	328.50	0.00	370	10.109	3259.23	328.51	0.02	370
10.132	333.50	0.00	364	10.109	3264.23	333.51	0.02	364
10.121	338.50	0.01	359	10.098	3269.23	338.51	0.03	359
10.132	343.50	0.00	354	10.109	3274.23	343.51	0.02	354
10.132	348.50	0.00	349	10.109	3279.23	348.51	0.02	349
10.121	353.50	0.01	344	10.109	3284.23	353.51	0.02	344
10.132	358.50	0.00	339	10.109	3289.23	358.51	0.02	339
10.132	363.50	0.00	334	10.098	3294.23	363.51	0.03	334
10.132	368.50	0.00	330	10.098	3299.23	368.51	0.03	330
10.132	373.50	0.00	325	10.098	3304.23	373.51	0.03	325
10.144	378.50	-0.01	321	10.098	3309.23	378.51	0.03	321
10.144	383.50	-0.01	317	10.109	3314.23	383.51	0.02	317
10.144	388.50	-0.01	313	10.098	3319.23	388.51	0.03	313
10.132	393.50	0.00	309	10.109	3324.23	393.51	0.02	309
10.132	398.50	0.00	305	10.109	3329.23	398.51	0.02	305
10.132	403.50	0.00	301	10.109	3334.23	403.51	0.02	301
10.132	408.50	0.00	298	10.109	3339.23	408.51	0.02	298
10.132	413.50	0.00	294	10.109	3344.23	413.51	0.02	294
10.144	428.50	-0.01	284	10.109	3359.23	428.51	0.02	284
10.132	443.50	0.00	274	10.109	3374.23	443.51	0.02	274
10.132	458.50	0.00	265	10.121	3389.23	458.51	0.01	265
10.132	473.50	0.00	257	10.121	3404.23	473.51	0.01	257
10.132	488.50	0.00	249	10.121	3419.23	488.51	0.01	249
10.144	503.50	-0.01	241	10.121	3434.23	503.51	0.01	241
10.144	518.50	-0.01	234	10.121	3449.23	518.51	0.01	234
10.144	533.50	-0.01	228	10.121	3464.23	533.51	0.01	228
10.144	548.50	-0.01	222	10.121	3479.23	548.51	0.01	222
10.144	563.50	-0.01	216	10.121	3494.23	563.51	0.01	216
10.132	578.50	0.00	210	10.132	3509.23	578.51	0.00	210
10.132	593.50	0.00	205	10.132	3524.23	593.51	0.00	205
10.144	608.50	-0.01	200	10.132	3539.23	608.51	0.00	200
10.144	623.50	-0.01	195	10.144	3554.23	623.51	-0.01	195
10.144	638.50	-0.01	190	10.144	3569.23	638.51	-0.01	190
10.144	653.50	-0.01	186	10.144	3584.23	653.51	-0.01	186
10.144	668.50	-0.01	182	10.132	3599.23	668.52	0.00	182
10.144	683.50	-0.01	178	10.132	3614.23	683.52	0.00	178
10.144	698.50	-0.01	174	10.132	3629.23	698.52	0.00	174
10.144	713.50	-0.01	170	10.132	3644.23	713.52	0.00	170
10.144	728.50	-0.01	167	10.132	3659.23	728.52	0.00	167
10.132	743.50	0.00	163	10.144	3674.23	743.52	-0.01	163
10.132	758.50	0.00	160	10.144	3689.23	758.52	-0.01	160
10.144	773.50	-0.01	157	10.144	3704.23	773.52	-0.01	157
10.144	788.50	-0.01	154	10.132	3719.23	788.52	0.00	154
10.132	803.50	0.00	151	10.144	3734.23	803.52	-0.01	151

UPRR SACRAMENTO
 MW-18 DATALOGGER DATA
 November, 1991

PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
10.144	818.50	-0.01	149	10.144	3749.23	818.52	-0.01	149
10.132	833.50	0.00	146	10.144	3764.23	833.52	-0.01	146
10.132	848.50	0.00	143	10.132	3779.23	848.52	0.00	143
10.132	863.50	0.00	141	10.144	3794.23	863.52	-0.01	141
10.144	878.50	-0.01	138	10.144	3809.23	878.52	-0.01	138
10.132	893.50	0.00	136	10.132	3824.23	893.52	0.00	136
10.132	908.50	0.00	134	10.144	3839.23	908.52	-0.01	134
10.132	923.50	0.00	132	10.144	3854.23	923.52	-0.01	132
10.132	938.50	0.00	130	10.144	3869.23	938.52	-0.01	130
10.132	953.50	0.00	127	10.144	3884.23	953.52	-0.01	127
10.132	968.50	0.00	126	10.144	3899.23	968.52	-0.01	126
10.132	983.50	0.00	124	10.144	3914.23	983.52	-0.01	124
10.121	998.50	0.01	122	10.144	3929.23	998.52	-0.01	122
10.121	1013.50	0.01	120	10.144	3944.23	1013.52	-0.01	120
10.121	1028.50	0.01	118	10.132	3959.23	1028.52	0.00	118
10.121	1043.50	0.01	116	10.132	3974.23	1043.52	0.00	116
10.109	1058.50	0.02	115	10.132	3989.23	1058.52	0.00	115
10.098	1073.50	0.03	113	10.132	4004.23	1073.52	0.00	113
10.098	1088.50	0.03	112	10.132	4019.23	1088.52	0.00	112
10.109	1103.50	0.02	110	10.121	4034.23	1103.52	0.01	110
10.098	1118.50	0.03	109	10.132	4049.23	1118.52	0.00	109
10.086	1139.47	0.05	107	10.132	4064.23	1133.52	0.00	107
10.086	1154.47	0.05	105	10.144	4079.23	1148.52	-0.01	106
10.098	1169.47	0.03	104	10.132	4094.23	1163.52	0.00	104
10.098	1184.47	0.03	103	10.144	4109.23	1178.52	-0.01	103
10.109	1199.47	0.02	101	10.121	4124.23	1193.52	0.01	102
10.109	1214.47	0.02	100	10.155	4139.23	1208.52	-0.02	101
10.098	1229.47	0.03	99	10.132	4154.23	1223.52	0.00	99
10.086	1244.47	0.05	98	10.132	4169.23	1238.52	0.00	98
10.086	1259.47	0.05	97	10.132	4184.23	1253.52	0.00	97
10.086	1274.47	0.05	95	10.144	4199.23	1268.52	-0.01	96
10.086	1289.47	0.05	94	10.132	4214.23	1283.52	0.00	95
10.086	1304.47	0.05	93	10.132	4229.23	1298.51	0.00	94
10.074	1319.47	0.06	92	10.132	4244.23	1313.51	0.00	93
10.063	1334.47	0.07	91	10.132	4259.23	1328.51	0.00	91
10.063	1349.47	0.07	90	10.132	4274.23	1343.51	0.00	90
10.074	1364.47	0.06	89	10.132	4289.23	1358.51	0.00	89
10.063	1379.47	0.07	88	10.132	4304.23	1373.51	0.00	88
10.063	1394.47	0.07	87	10.121	4319.23	1388.51	0.01	88
10.063	1409.47	0.07	86	10.132	4334.23	1403.51	0.00	87
10.063	1424.47	0.07	85	10.144	4349.23	1418.51	-0.01	86
10.063	1439.47	0.07	84	10.132	4364.23	1433.51	0.00	85
10.063	1454.47	0.07	84	10.121	4379.23	1448.51	0.01	84
10.063	1469.47	0.07	83	10.132	4394.23	1463.51	0.00	83
10.063	1484.47	0.07	82	10.144	4409.23	1478.51	-0.01	82

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RECOVERY

Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
10.063	1499.47	0.07	81	10.144	4424.23	1493.51	-0.01	81
10.063	1514.47	0.07	80	10.121	4439.23	1508.51	0.01	81
10.063	1529.47	0.07	79	10.121	4454.23	1523.51	0.01	80
10.063	1544.47	0.07	79	10.132	4469.23	1538.51	0.00	79
10.063	1559.47	0.07	78	10.121	4484.23	1553.51	0.01	78
10.063	1574.47	0.07	77	10.144	4499.23	1568.51	-0.01	77
10.063	1589.47	0.07	76	10.132	4514.23	1583.51	0.00	77
10.063	1604.47	0.07	76	10.144	4529.23	1598.51	-0.01	76
10.063	1619.47	0.07	75	10.144	4544.23	1613.51	-0.01	76
10.063	1634.47	0.07	74	10.144	4559.23	1628.51	-0.01	75
10.063	1649.47	0.07	74	10.155	4574.23	1643.51	-0.02	74
10.063	1664.47	0.07	73	10.144	4589.23	1658.51	-0.01	73
10.074	1679.47	0.06	72	10.155	4604.23	1673.51	-0.02	73
10.063	1694.47	0.07	72	10.144	4619.23	1688.51	-0.01	72
10.074	1709.47	0.06	71	10.155	4634.23	1703.51	-0.02	71
10.063	1724.47	0.07	70	10.167	4649.23	1718.51	-0.04	71
10.074	1739.47	0.06	70	10.155	4664.23	1733.51	-0.02	70
10.074	1754.47	0.06	69	10.167	4679.23	1748.51	-0.04	70
10.063	1769.47	0.07	69	10.167	4694.23	1763.51	-0.04	69
10.074	1784.47	0.06	68	10.167	4709.23	1778.51	-0.04	68
10.074	1799.47	0.06	68	10.167	4724.23	1793.51	-0.04	68
10.063	1814.47	0.07	67	10.167	4739.23	1808.51	-0.04	67
10.063	1829.47	0.07	66	10.167	4754.23	1823.51	-0.04	67
10.063	1844.47	0.07	66	10.178	4769.23	1838.51	-0.05	66
10.074	1874.47	0.06	65	10.178	4799.23	1868.51	-0.05	65
10.074	1904.47	0.06	64	10.19	4829.23	1898.51	-0.06	64
10.074	1934.47	0.06	63	10.178	4859.23	1928.51	-0.05	63
10.074	1964.47	0.06	62	10.178	4889.23	1958.51	-0.05	62
10.074	1994.47	0.06	61	10.178	4919.23	1988.51	-0.05	61
10.074	2024.47	0.06	60	10.19	4949.23	2018.51	-0.06	60
10.074	2054.47	0.06	59	10.19	4979.23	2048.51	-0.06	59
10.074	2084.47	0.06	58	10.19	5009.23	2078.51	-0.06	58
10.074	2114.47	0.06	57	10.178	5039.23	2108.51	-0.05	58
10.074	2144.47	0.06	57	10.178	5069.23	2138.51	-0.05	57
10.063	2174.47	0.07	56	10.201	5099.23	2168.51	-0.07	56
10.074	2204.47	0.06	55	10.178	5129.23	2198.51	-0.05	55
10.063	2234.47	0.07	54	10.178	5159.23	2228.51	-0.05	55
10.063	2264.47	0.07	54	10.178	5189.23	2258.51	-0.05	54
10.063	2294.47	0.07	53	10.201	5219.23	2288.51	-0.07	53
10.074	2324.47	0.06	52	10.201	5249.23	2318.51	-0.07	52
10.063	2354.47	0.07	52	10.201	5279.23	2348.51	-0.07	52
10.063	2384.47	0.07	51	10.201	5309.23	2378.51	-0.07	51
10.063	2414.47	0.07	50	10.201	5339.23	2408.51	-0.07	50
10.063	2444.47	0.07	50	10.19	5369.23	2438.51	-0.06	50
10.051	2474.47	0.08	49	10.178	5399.23	2468.51	-0.05	49

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PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
10.063	2504.47	0.07	49	10.19	5429.23	2498.51	-0.06	49
10.051	2534.47	0.08	48	10.201	5459.23	2528.51	-0.07	48
10.04	2564.47	0.09	47	10.213	5489.23	2558.51	-0.08	48
10.051	2594.47	0.08	47	10.201	5519.23	2588.51	-0.07	47
10.04	2624.47	0.09	46	10.201	5549.23	2618.51	-0.07	46
10.028	2654.47	0.10	46	10.19	5579.23	2648.51	-0.06	46
10.028	2684.47	0.10	45	10.19	5609.23	2678.51	-0.06	45
10.028	2714.47	0.10	45					
10.028	2744.47	0.10	44					
10.017	2774.47	0.12	44					
10.005	2804.47	0.13	43					
10.005	2834.47	0.13	43					
10.005	2864.47	0.13	42					
10.005	2894.47	0.13	42					
10.005	2919.30	0.13	42					
10.005	2919.48	0.13	42					
10.005	2919.65	0.13	42					
10.005	2919.82	0.13	42					
10.005	2919.98	0.13	42					
10.005	2920.15	0.13	42					
10.005	2920.32	0.13	42					
10.005	2920.48	0.13	42					
10.005	2920.65	0.13	42					
10.005	2920.82	0.13	42					
10.005	2920.98	0.13	42					
10.005	2921.15	0.13	42					
10.005	2921.32	0.13	42					
10.005	2921.48	0.13	42					
10.005	2921.65	0.13	42					
10.005	2921.82	0.13	42					
10.005	2921.98	0.13	42					
10.005	2922.15	0.13	42					
10.005	2922.32	0.13	42					
10.005	2922.48	0.13	42					
10.005	2922.65	0.13	42					
10.005	2922.82	0.13	42					
10.005	2922.98	0.13	42					
9.994	2923.15	0.14	42					
10.005	2923.32	0.13	42					
9.994	2923.48	0.14	42					
10.005	2923.65	0.13	42					
10.005	2923.82	0.13	42					
10.005	2923.98	0.13	42					
10.005	2924.15	0.13	42					
10.005	2924.32	0.13	42					

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PUMPING				RECOVERY			
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet) r ² /t (ft ² /min)
10.005	2924.48	0.13	42				
10.005	2924.65	0.13	42				
10.005	2924.82	0.13	42				
10.005	2924.98	0.13	42				
10.005	2925.15	0.13	42				
10.005	2925.32	0.13	42				
10.005	2925.48	0.13	42				
10.005	2925.65	0.13	42				
10.005	2925.82	0.13	42				
10.005	2925.98	0.13	42				
10.005	2926.15	0.13	42				
10.005	2926.32	0.13	42				
10.005	2926.48	0.13	42				
10.005	2926.65	0.13	42				
10.005	2926.82	0.13	42				
10.005	2926.98	0.13	42				
9.994	2927.15	0.14	42				
10.005	2927.32	0.13	42				
10.005	2927.48	0.13	42				
10.005	2927.65	0.13	42				
10.005	2927.82	0.13	42				
10.005	2927.98	0.13	42				
10.005	2928.15	0.13	42				
10.005	2928.32	0.13	42				
10.005	2928.48	0.13	42				
10.005	2928.65	0.13	42				
10.005	2928.82	0.13	42				
10.005	2928.98	0.13	42				
10.005	2929.15	0.13	41				
10.005	2929.32	0.13	41				
10.005	2929.82	0.13	41				

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PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)

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November, 1991

PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
1.893	0.00	0.00	--	1.763	2930.72	0.00	0.13	--
1.899	0.17	-0.01	696720	1.766	2930.90	0.18	0.13	639193
1.897	0.33	0.00	348360	1.761	2931.07	0.35	0.13	333359
1.897	0.50	0.00	232240	1.761	2931.23	0.51	0.13	225476
1.895	0.67	0.00	174180	1.759	2931.40	0.68	0.13	170347
1.899	0.83	-0.01	139344	1.761	2931.57	0.85	0.13	136880
1.897	1.00	0.00	116120	1.761	2931.73	1.01	0.13	114404
1.897	1.17	0.00	99531	1.759	2931.90	1.18	0.13	98268
1.897	1.33	0.00	87090	1.761	2932.07	1.35	0.13	86121
1.895	1.50	0.00	77413	1.759	2932.23	1.51	0.13	76647
1.895	1.67	0.00	69672	1.759	2932.40	1.68	0.13	69051
1.89	1.83	0.00	63338	1.761	2932.57	1.85	0.13	62824
1.89	2.00	0.00	58060	1.759	2932.73	2.01	0.13	57628
1.89	2.17	0.00	53594	1.761	2932.90	2.18	0.13	53225
1.893	2.33	0.00	49766	1.763	2933.07	2.35	0.13	49448
1.893	2.50	0.00	46448	1.763	2933.23	2.51	0.13	46171
1.893	2.67	0.00	43545	1.761	2933.40	2.68	0.13	43301
1.886	2.83	0.01	40984	1.759	2933.57	2.85	0.13	40768
1.895	3.00	0.00	38707	1.752	2933.73	3.01	0.14	38514
1.893	3.17	0.00	36669	1.759	2933.90	3.18	0.13	36497
1.893	3.33	0.00	34836	1.759	2934.07	3.35	0.13	34680
1.89	3.50	0.00	33177	1.759	2934.23	3.51	0.13	33036
1.89	3.67	0.00	31669	1.761	2934.40	3.68	0.13	31540
1.89	3.83	0.00	30292	1.761	2934.57	3.85	0.13	30174
1.888	4.00	0.01	29030	1.759	2934.73	4.01	0.13	28922
1.888	4.17	0.01	27869	1.763	2934.90	4.18	0.13	27769
1.89	4.33	0.00	26797	1.763	2935.07	4.35	0.13	26704
1.89	4.50	0.00	25804	1.763	2935.23	4.51	0.13	25719
1.89	4.67	0.00	24883	1.763	2935.40	4.68	0.13	24803
1.89	4.83	0.00	24025	1.763	2935.57	4.85	0.13	23950
1.89	5.00	0.00	23224	1.763	2935.73	5.01	0.13	23155
1.89	5.17	0.00	22475	1.763	2935.90	5.18	0.13	22410
1.888	5.33	0.01	21773	1.766	2936.07	5.35	0.13	21711
1.89	5.50	0.00	21113	1.768	2936.23	5.51	0.13	21055

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1.893	5.67	0.00	20492	1.766	2936.40	5.68	0.13	20438
1.893	5.83	0.00	19906	1.766	2936.57	5.85	0.13	19855
1.893	6.00	0.00	19353	1.763	2936.73	6.01	0.13	19305
1.895	6.17	0.00	18830	1.766	2936.90	6.18	0.13	18785
1.89	6.33	0.00	18335	1.766	2937.07	6.35	0.13	18291
1.893	6.50	0.00	17865	1.766	2937.23	6.51	0.13	17823
1.89	6.67	0.00	17418	1.763	2937.40	6.68	0.13	17379
1.895	6.83	0.00	16993	1.768	2937.57	6.85	0.13	16956
1.895	7.00	0.00	16589	1.766	2937.73	7.01	0.13	16553
1.89	7.17	0.00	16203	1.766	2937.90	7.18	0.13	16169
1.895	7.33	0.00	15835	1.766	2938.07	7.35	0.13	15802
1.895	7.50	0.00	15483	1.768	2938.23	7.51	0.13	15452
1.893	7.67	0.00	15146	1.766	2938.40	7.68	0.13	15117
1.893	7.83	0.00	14824	1.763	2938.57	7.85	0.13	14795
1.893	8.00	0.00	14515	1.768	2938.73	8.01	0.13	14488
1.895	8.17	0.00	14219	1.766	2938.90	8.18	0.13	14193
1.895	8.33	0.00	13934	1.768	2939.07	8.35	0.13	13909
1.895	8.50	0.00	13661	1.766	2939.23	8.51	0.13	13637
1.893	8.67	0.00	13398	1.766	2939.40	8.68	0.13	13375
1.893	8.83	0.00	13146	1.766	2939.57	8.85	0.13	13123
1.893	9.00	0.00	12902	1.768	2939.73	9.01	0.13	12881
1.89	9.17	0.00	12668	1.768	2939.90	9.18	0.13	12647
1.893	9.33	0.00	12441	1.766	2940.07	9.35	0.13	12421
1.89	9.50	0.00	12223	1.766	2940.23	9.51	0.13	12204
1.893	9.67	0.00	12012	1.763	2940.40	9.68	0.13	11994
1.893	9.83	0.00	11809	1.766	2940.57	9.85	0.13	11791
1.893	10.00	0.00	11612	1.768	2940.73	10.01	0.13	11595
1.893	10.50	0.00	11059	1.766	2941.23	10.51	0.13	11043
1.895	11.00	0.00	10556	1.763	2941.73	11.01	0.13	10542
1.893	11.50	0.00	10097	1.761	2942.23	11.51	0.13	10084
1.895	12.00	0.00	9677	1.763	2942.73	12.01	0.13	9665
1.893	12.50	0.00	9290	1.766	2943.23	12.51	0.13	9278
1.895	13.00	0.00	8932	1.766	2943.73	13.01	0.13	8922
1.893	13.50	0.00	8601	1.768	2944.23	13.51	0.13	8592
1.888	14.00	0.01	8294	1.77	2944.73	14.01	0.12	8285
1.895	14.50	0.00	8008	1.768	2945.23	14.51	0.13	8000
1.895	15.00	0.00	7741	1.768	2945.73	15.01	0.13	7734
1.895	15.50	0.00	7492	1.768	2946.23	15.51	0.13	7484
1.895	16.00	0.00	7258	1.768	2946.73	16.01	0.13	7251
1.895	16.50	0.00	7038	1.768	2947.23	16.51	0.13	7031
1.893	17.00	0.00	6831	1.768	2947.73	17.01	0.13	6825
1.895	17.50	0.00	6635	1.77	2948.23	17.51	0.12	6630
1.89	18.00	0.00	6451	1.766	2948.73	18.01	0.13	6446
1.895	18.50	0.00	6277	1.77	2949.23	18.51	0.12	6272
1.893	19.00	0.00	6112	1.77	2949.73	19.01	0.12	6107

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PUMPING				RECOVERY				
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1.893	19.50	0.00	5955	1.77	2950.23	19.51	0.12	5950
1.893	20.00	0.00	5806	1.773	2950.73	20.01	0.12	5802
1.893	20.50	0.00	5664	1.773	2951.23	20.51	0.12	5660
1.893	21.00	0.00	5530	1.775	2951.73	21.01	0.12	5526
1.89	21.50	0.00	5401	1.773	2952.23	21.51	0.12	5397
1.89	22.00	0.00	5278	1.775	2952.73	22.01	0.12	5275
1.888	22.50	0.01	5161	1.775	2953.23	22.51	0.12	5157
1.888	23.00	0.01	5049	1.775	2953.73	23.01	0.12	5045
1.89	23.50	0.00	4941	1.777	2954.23	23.51	0.12	4938
1.888	24.00	0.01	4838	1.777	2954.73	24.01	0.12	4835
1.888	24.50	0.01	4740	1.775	2955.23	24.51	0.12	4737
1.89	25.00	0.00	4645	1.779	2955.73	25.01	0.11	4642
1.893	25.50	0.00	4554	1.777	2956.23	25.51	0.12	4551
1.893	26.00	0.00	4466	1.775	2956.73	26.01	0.12	4464
1.893	26.50	0.00	4382	1.775	2957.23	26.51	0.12	4379
1.89	27.00	0.00	4301	1.779	2957.73	27.01	0.11	4298
1.89	27.50	0.00	4223	1.777	2958.23	27.51	0.12	4220
1.893	28.00	0.00	4147	1.777	2958.73	28.01	0.12	4145
1.89	28.50	0.00	4074	1.777	2959.23	28.51	0.12	4072
1.89	29.00	0.00	4004	1.779	2959.73	29.01	0.11	4002
1.89	29.50	0.00	3936	1.782	2960.23	29.51	0.11	3934
1.893	30.00	0.00	3871	1.779	2960.73	30.01	0.11	3869
1.893	30.50	0.00	3807	1.782	2961.23	30.51	0.11	3805
1.888	31.00	0.01	3746	1.782	2961.73	31.01	0.11	3744
1.89	31.50	0.00	3686	1.779	2962.23	31.51	0.11	3685
1.89	32.00	0.00	3629	1.779	2962.73	32.01	0.11	3627
1.888	32.50	0.01	3573	1.777	2963.23	32.51	0.12	3571
1.888	33.00	0.01	3519	1.777	2963.73	33.01	0.12	3517
1.886	33.50	0.01	3466	1.784	2964.23	33.51	0.11	3465
1.888	34.00	0.01	3415	1.784	2964.73	34.01	0.11	3414
1.886	34.50	0.01	3366	1.784	2965.23	34.51	0.11	3364
1.888	35.00	0.01	3318	1.784	2965.73	35.01	0.11	3316
1.883	35.50	0.01	3271	1.784	2966.23	35.51	0.11	3270
1.886	36.00	0.01	3226	1.782	2966.73	36.01	0.11	3224
1.883	36.50	0.01	3181	1.782	2967.23	36.51	0.11	3180
1.883	37.00	0.01	3138	1.779	2967.73	37.01	0.11	3137
1.883	37.50	0.01	3097	1.782	2968.23	37.51	0.11	3095
1.883	38.00	0.01	3056	1.782	2968.73	38.01	0.11	3055
1.883	38.50	0.01	3016	1.782	2969.23	38.51	0.11	3015
1.883	39.00	0.01	2977	1.779	2969.73	39.01	0.11	2976
1.886	39.50	0.01	2940	1.782	2970.23	39.51	0.11	2939
1.881	40.00	0.01	2903	1.779	2970.73	40.01	0.11	2902
1.886	40.50	0.01	2867	1.779	2971.23	40.51	0.11	2866
1.886	41.00	0.01	2832	1.789	2971.73	41.01	0.10	2831
1.883	41.50	0.01	2798	1.786	2972.23	41.51	0.11	2797

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PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
1.881	42.00	0.01	2765	1.786	2972.73	42.01	0.11	2764
1.881	42.50	0.01	2732	1.789	2973.23	42.51	0.10	2731
1.881	43.00	0.01	2700	1.786	2973.73	43.01	0.11	2700
1.881	43.50	0.01	2669	1.791	2974.23	43.51	0.10	2669
1.881	44.00	0.01	2639	1.791	2974.73	44.01	0.10	2638
1.879	44.50	0.01	2609	1.793	2975.23	44.51	0.10	2609
1.879	45.00	0.01	2580	1.796	2975.73	45.01	0.10	2580
1.879	45.50	0.01	2552	1.791	2976.23	45.51	0.10	2551
1.876	46.00	0.02	2524	1.793	2976.73	46.01	0.10	2524
1.879	46.50	0.01	2497	1.796	2977.23	46.51	0.10	2496
1.879	47.00	0.01	2471	1.796	2977.73	47.01	0.10	2470
1.876	47.50	0.02	2445	1.793	2978.23	47.51	0.10	2444
1.879	48.00	0.01	2419	1.793	2978.73	48.01	0.10	2418
1.876	48.50	0.02	2394	1.786	2979.23	48.51	0.11	2393
1.876	49.00	0.02	2370	1.791	2979.73	49.01	0.10	2369
1.876	49.50	0.02	2346	1.796	2980.23	49.51	0.10	2345
1.874	50.00	0.02	2322	1.796	2980.73	50.01	0.10	2322
1.874	50.50	0.02	2299	1.796	2981.23	50.51	0.10	2299
1.874	51.00	0.02	2277	1.796	2981.73	51.01	0.10	2276
1.872	51.50	0.02	2255	1.796	2982.23	51.51	0.10	2254
1.874	52.00	0.02	2233	1.796	2982.73	52.01	0.10	2232
1.874	52.50	0.02	2212	1.798	2983.23	52.51	0.09	2211
1.874	53.00	0.02	2191	1.798	2983.73	53.01	0.09	2190
1.872	53.50	0.02	2170	1.796	2984.23	53.51	0.10	2170
1.874	54.00	0.02	2150	1.8	2984.73	54.01	0.09	2150
1.876	54.50	0.02	2131	1.8	2985.23	54.51	0.09	2130
1.879	55.00	0.01	2111	1.798	2985.73	55.01	0.09	2111
1.872	55.50	0.02	2092	1.798	2986.23	55.51	0.09	2092
1.874	56.00	0.02	2074	1.796	2986.73	56.01	0.10	2073
1.876	56.50	0.02	2055	1.798	2987.23	56.51	0.09	2055
1.874	57.00	0.02	2037	1.798	2987.73	57.01	0.09	2037
1.872	57.50	0.02	2019	1.796	2988.23	57.51	0.10	2019
1.874	58.00	0.02	2002	1.793	2988.73	58.01	0.10	2002
1.872	58.50	0.02	1985	1.798	2989.23	58.51	0.09	1984
1.876	59.00	0.02	1968	1.8	2989.73	59.01	0.09	1968
1.876	59.50	0.02	1952	1.8	2990.23	59.51	0.09	1951
1.876	60.50	0.02	1919	1.8	2991.23	60.51	0.09	1919
1.876	61.50	0.02	1888	1.803	2992.23	61.51	0.09	1888
1.876	62.50	0.02	1858	1.798	2993.23	62.51	0.09	1857
1.879	63.50	0.01	1829	1.803	2994.23	63.51	0.09	1828
1.886	64.50	0.01	1800	1.798	2995.23	64.51	0.09	1800
1.883	65.50	0.01	1773	1.798	2996.23	65.51	0.09	1772
1.879	66.50	0.01	1746	1.798	2997.23	66.51	0.09	1746
1.881	67.50	0.01	1720	1.798	2998.23	67.51	0.09	1720
1.879	68.50	0.01	1695	1.796	2999.23	68.51	0.10	1695

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PUMPING				RECOVERY				
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1.876	69.50	0.02	1671	1.8	3000.23	69.51	0.09	1670
1.876	70.50	0.02	1647	1.803	3001.23	70.51	0.09	1647
1.879	71.50	0.01	1624	1.8	3002.23	71.51	0.09	1624
1.876	72.50	0.02	1602	1.798	3003.23	72.51	0.09	1601
1.876	73.50	0.02	1580	1.803	3004.23	73.51	0.09	1580
1.874	74.50	0.02	1559	1.803	3005.23	74.51	0.09	1558
1.874	75.50	0.02	1538	1.803	3006.23	75.51	0.09	1538
1.876	76.50	0.02	1518	1.8	3007.23	76.51	0.09	1518
1.874	77.50	0.02	1498	1.803	3008.23	77.51	0.09	1498
1.874	78.50	0.02	1479	1.798	3009.23	78.51	0.09	1479
1.874	79.50	0.02	1461	1.8	3010.23	79.51	0.09	1460
1.869	80.50	0.02	1442	1.8	3011.23	80.51	0.09	1442
1.867	81.50	0.03	1425	1.8	3012.23	81.51	0.09	1425
1.869	82.50	0.02	1408	1.798	3013.23	82.51	0.09	1407
1.865	83.50	0.03	1391	1.8	3014.23	83.51	0.09	1390
1.867	84.50	0.03	1374	1.798	3015.23	84.51	0.09	1374
1.867	85.50	0.03	1358	1.796	3016.23	85.51	0.10	1358
1.867	86.50	0.03	1342	1.798	3017.23	86.51	0.09	1342
1.865	87.50	0.03	1327	1.8	3018.23	87.51	0.09	1327
1.869	88.50	0.02	1312	1.798	3019.23	88.51	0.09	1312
1.863	89.50	0.03	1297	1.798	3020.23	89.51	0.09	1297
1.865	90.50	0.03	1283	1.796	3021.23	90.51	0.10	1283
1.865	91.50	0.03	1269	1.8	3022.23	91.51	0.09	1269
1.863	92.50	0.03	1255	1.798	3023.23	92.51	0.09	1255
1.863	93.50	0.03	1242	1.796	3024.23	93.51	0.10	1242
1.863	94.50	0.03	1229	1.798	3025.23	94.51	0.09	1229
1.865	95.50	0.03	1216	1.798	3026.23	95.51	0.09	1216
1.86	96.50	0.03	1203	1.798	3027.23	96.51	0.09	1203
1.863	97.50	0.03	1191	1.798	3028.23	97.51	0.09	1191
1.86	98.50	0.03	1179	1.796	3029.23	98.51	0.10	1179
1.86	99.50	0.03	1167	1.798	3030.23	99.51	0.09	1167
1.863	100.50	0.03	1155	1.798	3031.23	100.51	0.09	1155
1.86	101.50	0.03	1144	1.798	3032.23	101.51	0.09	1144
1.858	102.50	0.03	1133	1.8	3033.23	102.51	0.09	1133
1.863	103.50	0.03	1122	1.796	3034.23	103.51	0.10	1122
1.858	104.50	0.03	1111	1.798	3035.23	104.51	0.09	1111
1.86	105.50	0.03	1101	1.8	3036.23	105.51	0.09	1101
1.86	106.50	0.03	1090	1.8	3037.23	106.51	0.09	1090
1.86	107.50	0.03	1080	1.8	3038.23	107.51	0.09	1080
1.86	108.50	0.03	1070	1.798	3039.23	108.51	0.09	1070
1.858	109.50	0.03	1060	1.796	3040.23	109.51	0.10	1060
1.86	110.50	0.03	1051	1.798	3041.23	110.51	0.09	1051
1.858	111.50	0.03	1041	1.798	3042.23	111.51	0.09	1041
1.858	112.50	0.03	1032	1.798	3043.23	112.51	0.09	1032
1.856	113.50	0.04	1023	1.796	3044.23	113.51	0.10	1023

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PUMPING				RECOVERY				
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1.856	114.50	0.04	1014	1.798	3045.23	114.51	0.09	1014
1.856	115.50	0.04	1005	1.796	3046.23	115.51	0.10	1005
1.851	116.50	0.04	997	1.793	3047.23	116.51	0.10	997
1.858	117.50	0.03	988	1.793	3048.23	117.51	0.10	988
1.858	118.50	0.03	980	1.798	3049.23	118.51	0.09	980
1.858	123.50	0.03	940	1.796	3054.23	123.51	0.10	940
1.856	128.50	0.04	904	1.798	3059.23	128.51	0.09	904
1.858	133.50	0.03	870	1.803	3064.23	133.51	0.09	870
1.853	138.50	0.04	838	1.805	3069.23	138.51	0.09	838
1.856	143.50	0.04	809	1.803	3074.23	143.51	0.09	809
1.856	148.50	0.04	782	1.809	3079.23	148.51	0.08	782
1.856	153.50	0.04	756	1.807	3084.23	153.51	0.09	756
1.851	158.50	0.04	733	1.812	3089.23	158.51	0.08	733
1.853	163.50	0.04	710	1.809	3094.23	163.51	0.08	710
1.853	168.50	0.04	689	1.809	3099.23	168.51	0.08	689
1.856	173.50	0.04	669	1.812	3104.23	173.51	0.08	669
1.853	178.50	0.04	651	1.812	3109.23	178.51	0.08	650
1.851	183.50	0.04	633	1.812	3114.23	183.51	0.08	633
1.853	188.50	0.04	616	1.812	3119.23	188.51	0.08	616
1.853	193.50	0.04	600	1.812	3124.23	193.51	0.08	600
1.851	198.50	0.04	585	1.812	3129.23	198.51	0.08	585
1.853	203.50	0.04	571	1.814	3134.23	203.51	0.08	571
1.856	208.50	0.04	557	1.814	3139.23	208.51	0.08	557
1.846	213.50	0.05	544	1.812	3144.23	213.51	0.08	544
1.851	218.50	0.04	531	1.812	3149.23	218.51	0.08	531
1.846	223.50	0.05	520	1.809	3154.23	223.51	0.08	520
1.849	228.50	0.04	508	1.809	3159.23	228.51	0.08	508
1.851	233.50	0.04	497	1.807	3164.23	233.51	0.09	497
1.846	238.50	0.05	487	1.807	3169.23	238.51	0.09	487
1.853	243.50	0.04	477	1.807	3174.23	243.51	0.09	477
1.851	248.50	0.04	467	1.805	3179.23	248.51	0.09	467
1.851	253.50	0.04	458	1.807	3184.23	253.51	0.09	458
1.853	258.50	0.04	449	1.809	3189.23	258.51	0.08	449
1.853	263.50	0.04	441	1.807	3194.23	263.51	0.09	441
1.849	268.50	0.04	432	1.807	3199.23	268.51	0.09	432
1.851	273.50	0.04	425	1.807	3204.23	273.51	0.09	425
1.851	278.50	0.04	417	1.807	3209.23	278.51	0.09	417
1.846	283.50	0.05	410	1.809	3214.23	283.51	0.08	410
1.846	288.50	0.05	402	1.809	3219.23	288.51	0.08	402
1.851	293.50	0.04	396	1.809	3224.23	293.51	0.08	396
1.851	298.50	0.04	389	1.809	3229.23	298.51	0.08	389
1.851	303.50	0.04	383	1.812	3234.23	303.51	0.08	383
1.856	308.50	0.04	376	1.809	3239.23	308.51	0.08	376
1.856	313.50	0.04	370	1.816	3244.23	313.51	0.08	370
1.858	318.50	0.03	365	1.814	3249.23	318.51	0.08	365

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PUMPING				RECOVERY				
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1.858	323.50	0.03	359	1.816	3254.23	323.51	0.08	359
1.858	328.50	0.03	353	1.816	3259.23	328.51	0.08	353
1.858	333.50	0.03	348	1.812	3264.23	333.51	0.08	348
1.858	338.50	0.03	343	1.814	3269.23	338.51	0.08	343
1.856	343.50	0.04	338	1.814	3274.23	343.51	0.08	338
1.853	348.50	0.04	333	1.812	3279.23	348.51	0.08	333
1.853	353.50	0.04	328	1.812	3284.23	353.51	0.08	328
1.856	358.50	0.04	324	1.809	3289.23	358.51	0.08	324
1.853	363.50	0.04	319	1.809	3294.23	363.51	0.08	319
1.86	368.50	0.03	315	1.807	3299.23	368.51	0.09	315
1.86	373.50	0.03	311	1.807	3304.23	373.51	0.09	311
1.858	378.50	0.03	307	1.809	3309.23	378.51	0.08	307
1.858	383.50	0.03	303	1.809	3314.23	383.51	0.08	303
1.86	388.50	0.03	299	1.809	3319.23	388.51	0.08	299
1.856	393.50	0.04	295	1.809	3324.23	393.51	0.08	295
1.858	398.50	0.03	291	1.809	3329.23	398.51	0.08	291
1.86	403.50	0.03	288	1.812	3334.23	403.51	0.08	288
1.856	408.50	0.04	284	1.809	3339.23	408.51	0.08	284
1.858	413.50	0.03	281	1.814	3344.23	413.51	0.08	281
1.858	428.50	0.03	271	1.814	3359.23	428.51	0.08	271
1.856	443.50	0.04	262	1.821	3374.23	443.51	0.07	262
1.858	458.50	0.03	253	1.819	3389.23	458.51	0.07	253
1.853	473.50	0.04	245	1.821	3404.23	473.51	0.07	245
1.853	478.50	0.04	238	1.821	3419.23	478.51	0.07	238
1.856	503.50	0.04	231	1.826	3434.23	503.51	0.07	231
1.858	518.50	0.03	224	1.826	3449.23	518.51	0.07	224
1.856	533.50	0.04	218	1.823	3464.23	533.51	0.07	218
1.853	548.50	0.04	212	1.819	3479.23	548.51	0.07	212
1.853	563.50	0.04	206	1.828	3494.23	563.51	0.06	206
1.849	578.50	0.04	201	1.828	3509.23	578.51	0.06	201
1.849	593.50	0.04	196	1.83	3524.23	593.51	0.06	196
1.849	608.50	0.04	191	1.83	3539.23	608.51	0.06	191
1.851	623.50	0.04	186	1.833	3554.23	623.51	0.06	186
1.851	638.50	0.04	182	1.837	3569.23	638.51	0.06	182
1.851	653.50	0.04	178	1.833	3584.23	653.51	0.06	178
1.853	668.50	0.04	174	1.833	3599.23	668.52	0.06	174
1.853	683.50	0.04	170	1.828	3614.23	683.52	0.06	170
1.853	698.50	0.04	166	1.83	3629.23	698.52	0.06	166
1.849	713.50	0.04	163	1.823	3644.23	713.52	0.07	163
1.849	728.50	0.04	159	1.826	3659.23	728.52	0.07	159
1.842	743.50	0.05	156	1.828	3674.23	743.52	0.06	156
1.846	758.50	0.05	153	1.833	3689.23	758.52	0.06	153
1.846	773.50	0.05	150	1.83	3704.23	773.52	0.06	150
1.846	788.50	0.05	147	1.83	3719.23	788.52	0.06	147
1.842	803.50	0.05	145	1.826	3734.23	803.52	0.07	145

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1.844	818.50	0.05	142	1.826	3749.23	818.52	0.07	142
1.844	833.50	0.05	139	1.826	3764.23	833.52	0.07	139
1.842	848.50	0.05	137	1.821	3779.23	848.52	0.07	137
1.844	863.50	0.05	134	1.823	3794.23	863.52	0.07	134
1.844	878.50	0.05	132	1.821	3809.23	878.52	0.07	132
1.839	893.50	0.05	130	1.819	3824.23	893.52	0.07	130
1.83	908.50	0.06	128	1.816	3839.23	908.52	0.08	128
1.828	923.50	0.06	126	1.816	3854.23	923.52	0.08	126
1.826	938.50	0.07	124	1.821	3869.23	938.52	0.07	124
1.83	953.50	0.06	122	1.821	3884.23	953.52	0.07	122
1.823	968.50	0.07	120	1.823	3899.23	968.52	0.07	120
1.83	983.50	0.06	118	1.823	3914.23	983.52	0.07	118
1.828	998.50	0.06	116	1.83	3929.23	998.52	0.06	116
1.835	1013.50	0.06	115	1.828	3944.23	1013.52	0.06	115
1.83	1028.50	0.06	113	1.828	3959.23	1028.52	0.06	113
1.83	1043.50	0.06	111	1.828	3974.23	1043.52	0.06	111
1.826	1058.50	0.07	110	1.837	3989.23	1058.52	0.06	110
1.826	1073.50	0.07	108	1.842	4004.23	1073.52	0.05	108
1.835	1088.50	0.06	107	1.853	4019.23	1088.52	0.04	107
1.826	1103.50	0.07	105	1.846	4034.23	1103.52	0.05	105
1.828	1118.50	0.06	104	1.851	4049.23	1118.52	0.04	104
1.826	1139.47	0.07	102	1.849	4064.23	1133.52	0.04	102
1.809	1154.47	0.08	101	1.858	4079.23	1148.52	0.03	101
1.821	1169.47	0.07	99	1.869	4094.23	1163.52	0.02	100
1.812	1184.47	0.08	98	1.867	4109.23	1178.52	0.03	99
1.828	1199.47	0.06	97	1.846	4124.23	1193.52	0.05	97
1.821	1214.47	0.07	96	1.881	4139.23	1208.52	0.01	96
1.816	1229.47	0.08	94	1.856	4154.23	1223.52	0.04	95
1.823	1244.47	0.07	93	1.86	4169.23	1238.52	0.03	94
1.819	1259.47	0.07	92	1.865	4184.23	1253.52	0.03	93
1.814	1274.47	0.08	91	1.867	4199.23	1268.52	0.03	92
1.821	1289.47	0.07	90	1.869	4214.23	1283.52	0.02	90
1.814	1304.47	0.08	89	1.863	4229.23	1298.51	0.03	89
1.821	1319.47	0.07	88	1.86	4244.23	1313.51	0.03	88
1.819	1334.47	0.07	87	1.856	4259.23	1328.51	0.04	87
1.816	1349.47	0.08	86	1.856	4274.23	1343.51	0.04	86
1.814	1364.47	0.08	85	1.853	4289.23	1358.51	0.04	85
1.809	1379.47	0.08	84	1.853	4304.23	1373.51	0.04	85
1.807	1394.47	0.09	83	1.849	4319.23	1388.51	0.04	84
1.807	1409.47	0.09	82	1.849	4334.23	1403.51	0.04	83
1.807	1424.47	0.09	82	1.858	4349.23	1418.51	0.03	82
1.805	1439.47	0.09	81	1.849	4364.23	1433.51	0.04	81
1.8	1454.47	0.09	80	1.851	4379.23	1448.51	0.04	80
1.8	1469.47	0.09	79	1.856	4394.23	1463.51	0.04	79
1.798	1484.47	0.09	78	1.863	4409.23	1478.51	0.03	79

UPRR SACRAMENTO
 MW-28 DATALOGGER DATA
 November, 1991

PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
1.803	1499.47	0.09	77	1.872	4424.23	1493.51	0.02	78
1.798	1514.47	0.09	77	1.865	4439.23	1508.51	0.03	77
1.793	1529.47	0.10	76	1.853	4454.23	1523.51	0.04	76
1.789	1544.47	0.10	75	1.851	4469.23	1538.51	0.04	75
1.791	1559.47	0.10	74	1.851	4484.23	1553.51	0.04	75
1.784	1574.47	0.11	74	1.856	4499.23	1568.51	0.04	74
1.789	1589.47	0.10	73	1.858	4514.23	1583.51	0.03	73
1.789	1604.47	0.10	72	1.863	4529.23	1598.51	0.03	73
1.786	1619.47	0.11	72	1.867	4544.23	1613.51	0.03	72
1.784	1634.47	0.11	71	1.865	4559.23	1628.51	0.03	71
1.786	1649.47	0.11	70	1.869	4574.23	1643.51	0.02	71
1.782	1664.47	0.11	70	1.869	4589.23	1658.51	0.02	70
1.791	1679.47	0.10	69	1.872	4604.23	1673.51	0.02	69
1.793	1694.47	0.10	69	1.869	4619.23	1688.51	0.02	69
1.796	1709.47	0.10	68	1.872	4634.23	1703.51	0.02	68
1.791	1724.47	0.10	67	1.876	4649.23	1718.51	0.02	68
1.793	1739.47	0.10	67	1.874	4664.23	1733.51	0.02	67
1.789	1754.47	0.10	66	1.876	4679.23	1748.51	0.02	66
1.796	1769.47	0.10	66	1.879	4694.23	1763.51	0.01	66
1.791	1784.47	0.10	65	1.879	4709.23	1778.51	0.01	65
1.791	1799.47	0.10	65	1.879	4724.23	1793.51	0.01	65
1.793	1814.47	0.10	64	1.886	4739.23	1808.51	0.01	64
1.793	1829.47	0.10	63	1.888	4754.23	1823.51	0.01	64
1.791	1844.47	0.10	63	1.89	4769.23	1838.51	0.00	63
1.791	1874.47	0.10	62	1.895	4799.23	1868.51	0.00	62
1.796	1904.47	0.10	61	1.897	4829.23	1898.51	0.00	61
1.796	1934.47	0.10	60	1.897	4859.23	1928.51	0.00	60
1.796	1964.47	0.10	59	1.897	4889.23	1958.51	0.00	59
1.796	1994.47	0.10	58	1.895	4919.23	1988.51	0.00	58
1.796	2024.47	0.10	57	1.902	4949.23	2018.51	-0.01	58
1.791	2054.47	0.10	57	1.899	4979.23	2048.51	-0.01	57
1.784	2084.47	0.11	56	1.904	5009.23	2078.51	-0.01	56
1.791	2114.47	0.10	55	1.893	5039.23	2108.51	0.00	55
1.796	2144.47	0.10	54	1.89	5069.23	2138.51	0.00	54
1.789	2174.47	0.10	53	1.899	5099.23	2168.51	-0.01	54
1.786	2204.47	0.11	53	1.883	5129.23	2198.51	0.01	53
1.784	2234.47	0.11	52	1.881	5159.23	2228.51	0.01	52
1.779	2264.47	0.11	51	1.883	5189.23	2258.51	0.01	51
1.779	2294.47	0.11	51	1.888	5219.23	2288.51	0.01	51
1.784	2324.47	0.11	50	1.888	5249.23	2318.51	0.01	50
1.775	2354.47	0.12	49	1.881	5279.23	2348.51	0.01	49
1.775	2384.47	0.12	49	1.881	5309.23	2378.51	0.01	49
1.782	2414.47	0.11	48	1.881	5339.23	2408.51	0.01	48
1.777	2444.47	0.12	48	1.881	5369.23	2438.51	0.01	48
1.775	2474.47	0.12	47	1.869	5399.23	2468.51	0.02	47

UPRR SACRAMENTO
 MW-28 DATALOGGER DATA
 November, 1991

PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
1.782	2504.47	0.11	46	1.872	5429.23	2498.51	0.02	46
1.779	2534.47	0.11	46	1.881	5459.23	2528.51	0.01	46
1.775	2564.47	0.12	45	1.893	5489.23	2558.51	0.00	45
1.791	2594.47	0.10	45	1.886	5519.23	2588.51	0.01	45
1.786	2624.47	0.11	44	1.893	5549.23	2618.51	0.00	44
1.773	2654.47	0.12	44	1.883	5579.23	2648.51	0.01	44
1.775	2684.47	0.12	43	1.872	5609.23	2678.51	0.02	43
1.768	2714.47	0.13	43					
1.775	2744.47	0.12	42					
1.777	2774.47	0.12	42					
1.768	2804.47	0.13	41					
1.766	2834.47	0.13	41					
1.768	2864.47	0.13	41					
1.766	2894.47	0.13	40					
1.768	2919.30	0.13	40					
1.766	2919.48	0.13	40					
1.763	2919.65	0.13	40					
1.763	2919.82	0.13	40					
1.763	2919.98	0.13	40					
1.763	2920.15	0.13	40					
1.766	2920.32	0.13	40					
1.763	2920.48	0.13	40					
1.763	2920.65	0.13	40					
1.763	2920.82	0.13	40					
1.766	2920.98	0.13	40					
1.77	2921.15	0.12	40					
1.761	2921.32	0.13	40					
1.766	2921.48	0.13	40					
1.766	2921.65	0.13	40					
1.766	2921.82	0.13	40					
1.766	2921.98	0.13	40					
1.766	2922.15	0.13	40					
1.766	2922.32	0.13	40					
1.766	2922.48	0.13	40					
1.763	2922.65	0.13	40					
1.763	2922.82	0.13	40					
1.766	2922.98	0.13	40					
1.766	2923.15	0.13	40					
1.763	2923.32	0.13	40					
1.763	2923.48	0.13	40					
1.763	2923.65	0.13	40					
1.761	2923.82	0.13	40					
1.763	2923.98	0.13	40					
1.763	2924.15	0.13	40					
1.761	2924.32	0.13	40					

UPRR SACRAMENTO
 MW-28 DATALOGGER DATA
 November, 1991

PUMPING				RECOVERY				
Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Recovery Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
1.761	2924.48	0.13	40					
1.761	2924.65	0.13	40					
1.761	2924.82	0.13	40					
1.761	2924.98	0.13	40					
1.761	2925.15	0.13	40					
1.761	2925.32	0.13	40					
1.761	2925.48	0.13	40					
1.763	2925.65	0.13	40					
1.761	2925.82	0.13	40					
1.761	2925.98	0.13	40					
1.763	2926.15	0.13	40					
1.761	2926.32	0.13	40					
1.761	2926.48	0.13	40					
1.763	2926.65	0.13	40					
1.761	2926.82	0.13	40					
1.763	2926.98	0.13	40					
1.761	2927.15	0.13	40					
1.763	2927.32	0.13	40					
1.761	2927.48	0.13	40					
1.761	2927.65	0.13	40					
1.761	2927.82	0.13	40					
1.761	2927.98	0.13	40					
1.761	2928.15	0.13	40					
1.761	2928.32	0.13	40					
1.763	2928.48	0.13	40					
1.761	2928.65	0.13	40					
1.761	2928.82	0.13	40					
1.761	2928.98	0.13	40					
1.754	2929.15	0.14	40					
1.754	2929.32	0.14	40					
1.754	2929.82	0.14	40					

UPRR SACRAMENTO
MW-29 DATALOGGER DATA
November, 1991

PUMPING

RECOVERY

Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
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UPRR SACRAMENTO
MW-29 DATALOGGER DATA
November, 1991

PUMPING

RECOVERY

Head	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)	Head	Total Elapsed Time (min.)	Elapsed Time (min.)	Drawdown (feet)	r ² /t (ft ² /min)
7.247	0.00	0.00	--	7.305	2930.72	0.00	-0.06	--
7.213	0.17	0.03	630990	7.27	2930.90	0.18	-0.02	578890
7.213	0.33	0.03	315495	7.259	2931.07	0.35	-0.01	301909
7.201	0.50	0.05	210330	7.259	2931.23	0.51	-0.01	204204
7.201	0.67	0.05	157748	7.27	2931.40	0.68	-0.02	154276
7.201	0.83	0.05	126198	7.259	2931.57	0.85	-0.01	123967
7.213	1.00	0.03	105165	7.259	2931.73	1.01	-0.01	103611
7.201	1.17	0.05	90141	7.259	2931.90	1.18	-0.01	88997
7.213	1.33	0.03	78874	7.259	2932.07	1.35	-0.01	77996
7.213	1.50	0.03	70110	7.259	2932.23	1.51	-0.01	69416
7.213	1.67	0.03	63099	7.259	2932.40	1.68	-0.01	62536
7.213	1.83	0.03	57363	7.259	2932.57	1.85	-0.01	56897
7.213	2.00	0.03	52583	7.259	2932.73	2.01	-0.01	52191
7.213	2.17	0.03	48538	7.259	2932.90	2.18	-0.01	48204
7.213	2.33	0.03	45071	7.259	2933.07	2.35	-0.01	44783
7.213	2.50	0.03	42066	7.259	2933.23	2.51	-0.01	41815
7.224	2.67	0.02	39437	7.259	2933.40	2.68	-0.01	39216
7.213	2.83	0.03	37117	7.259	2933.57	2.85	-0.01	36922
7.224	3.00	0.02	35055	7.259	2933.73	3.01	-0.01	34881
7.213	3.17	0.03	33210	7.259	2933.90	3.18	-0.01	33053
7.213	3.33	0.03	31550	7.259	2934.07	3.35	-0.01	31408
7.213	3.50	0.03	30047	7.27	2934.23	3.51	-0.02	29919
7.213	3.67	0.03	28681	7.259	2934.40	3.68	-0.01	28565
7.224	3.83	0.02	27434	7.27	2934.57	3.85	-0.02	27327
7.213	4.00	0.03	26291	7.27	2934.73	4.01	-0.02	26193
7.224	4.17	0.02	25240	7.259	2934.90	4.18	-0.01	25149
7.224	4.33	0.02	24269	7.27	2935.07	4.35	-0.02	24185
7.224	4.50	0.02	23370	7.27	2935.23	4.51	-0.02	23292
7.224	4.67	0.02	22535	7.27	2935.40	4.68	-0.02	22463
7.224	4.83	0.02	21758	7.27	2935.57	4.85	-0.02	21691
7.224	5.00	0.02	21033	7.259	2935.73	5.01	-0.01	20970
7.224	5.17	0.02	20355	7.27	2935.90	5.18	-0.02	20296
7.236	5.33	0.01	19718	7.27	2936.07	5.35	-0.02	19663
7.236	5.50	0.01	19121	7.27	2936.23	5.51	-0.02	19069

UPRR SACRAMENTO
MW-41 DATALOGGER DATA
November, 1991

PUMPING

RECOVERY

Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r^2/t (ft ² /min)	Date	Time	Head	Elapsed Time (min.)	Drawdown (feet)	r^2/t (ft ² /min)
15-Nov-91	04:57:00 PM	10.012	2930.26	0.22	0						
15-Nov-91	04:57:04 PM	10.012	2930.33	0.22	0						
15-Nov-91	04:57:09 PM	10.012	2930.42	0.22	0						
15-Nov-91	04:57:15 PM	10.012	2930.51	0.22	0						
15-Nov-91	04:57:19 PM	10.012	2930.58	0.22	0						

Appendix B

APPENDIX B
PLOTS AND SAMPLE CALCULATIONS

SAC28.037

STEP DRAWDOWN

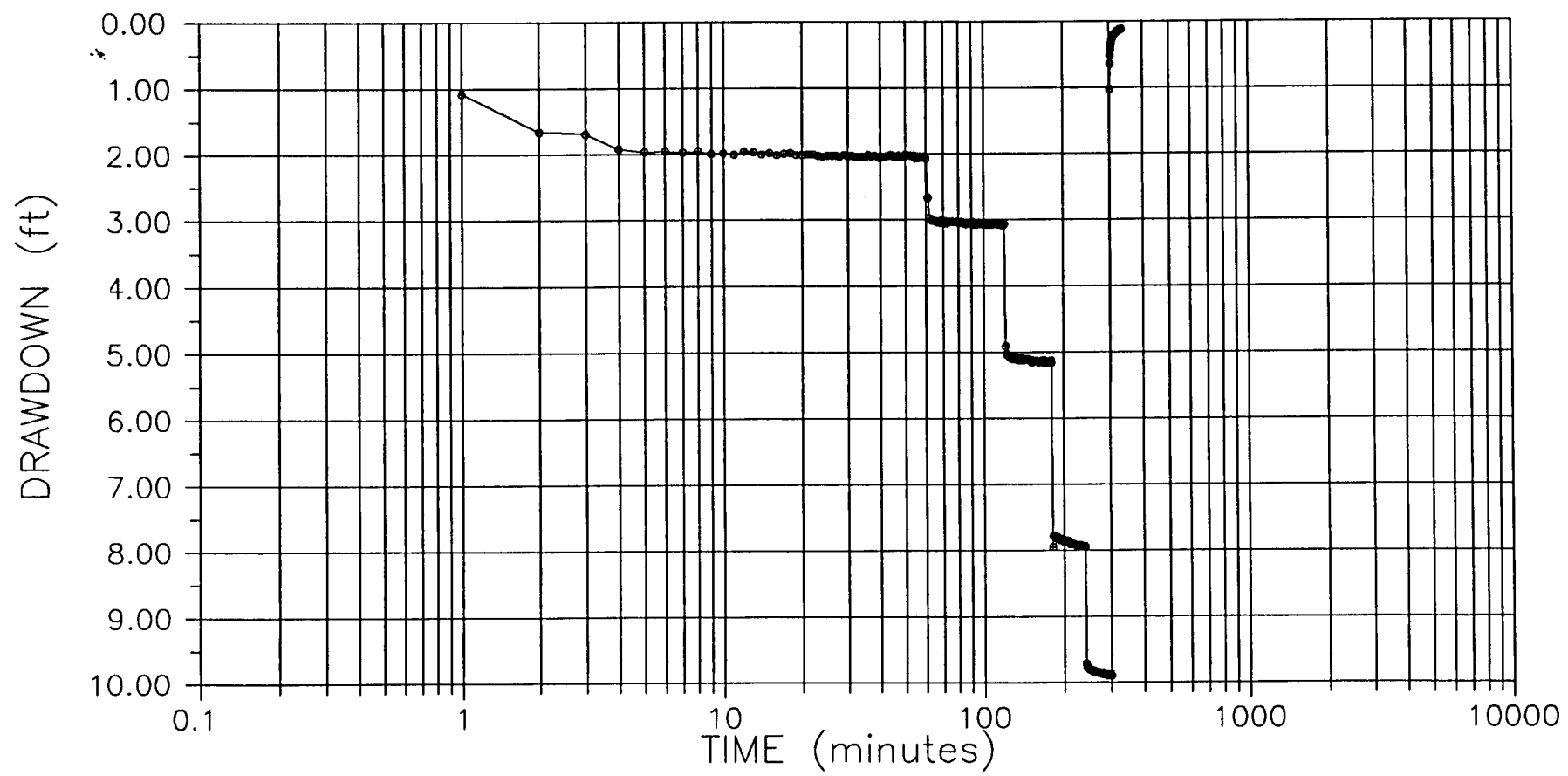


FIGURE B-1

MW-4 DATALOGGER DATA

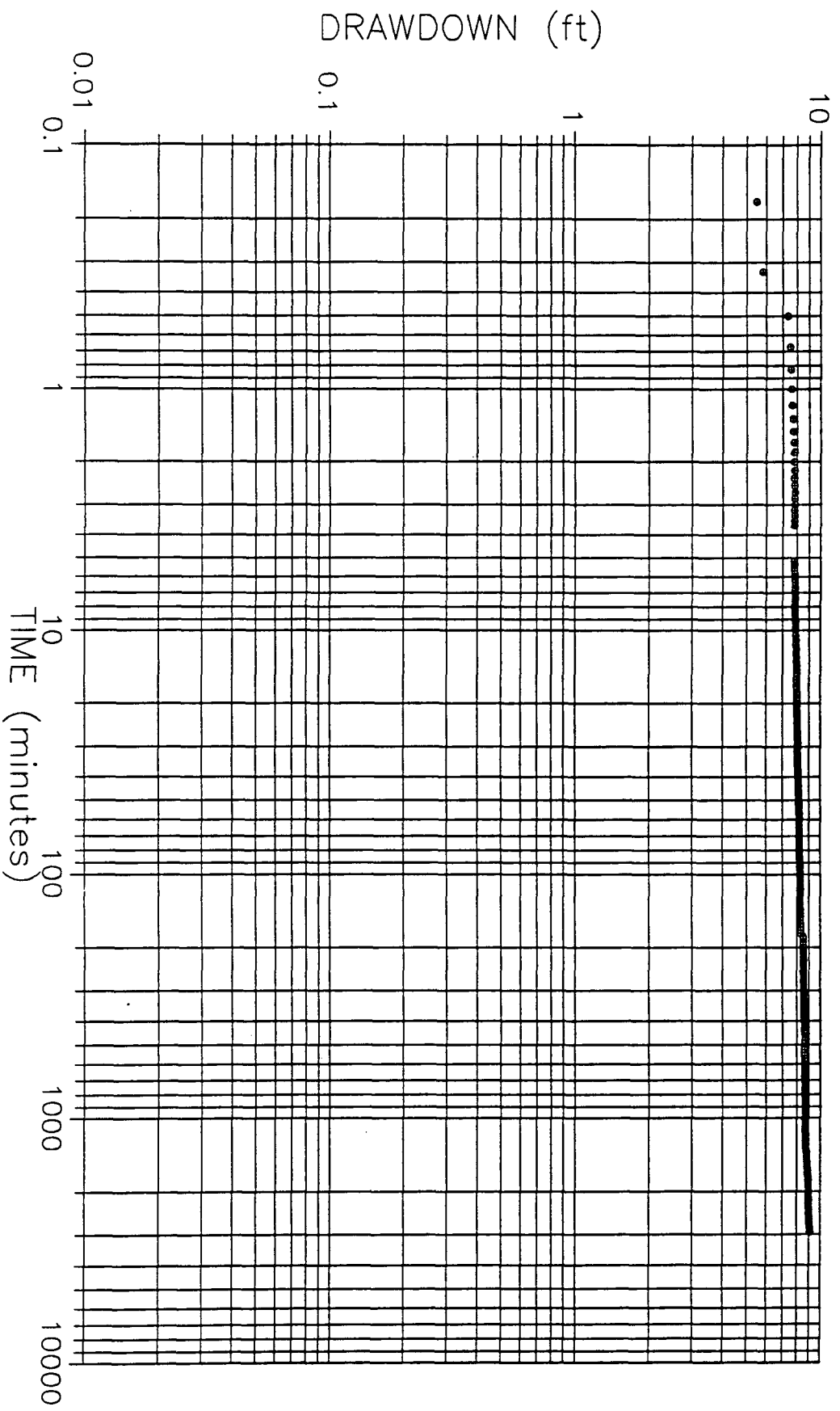


FIGURE B-2

MW-4 DATALOGGER DATA

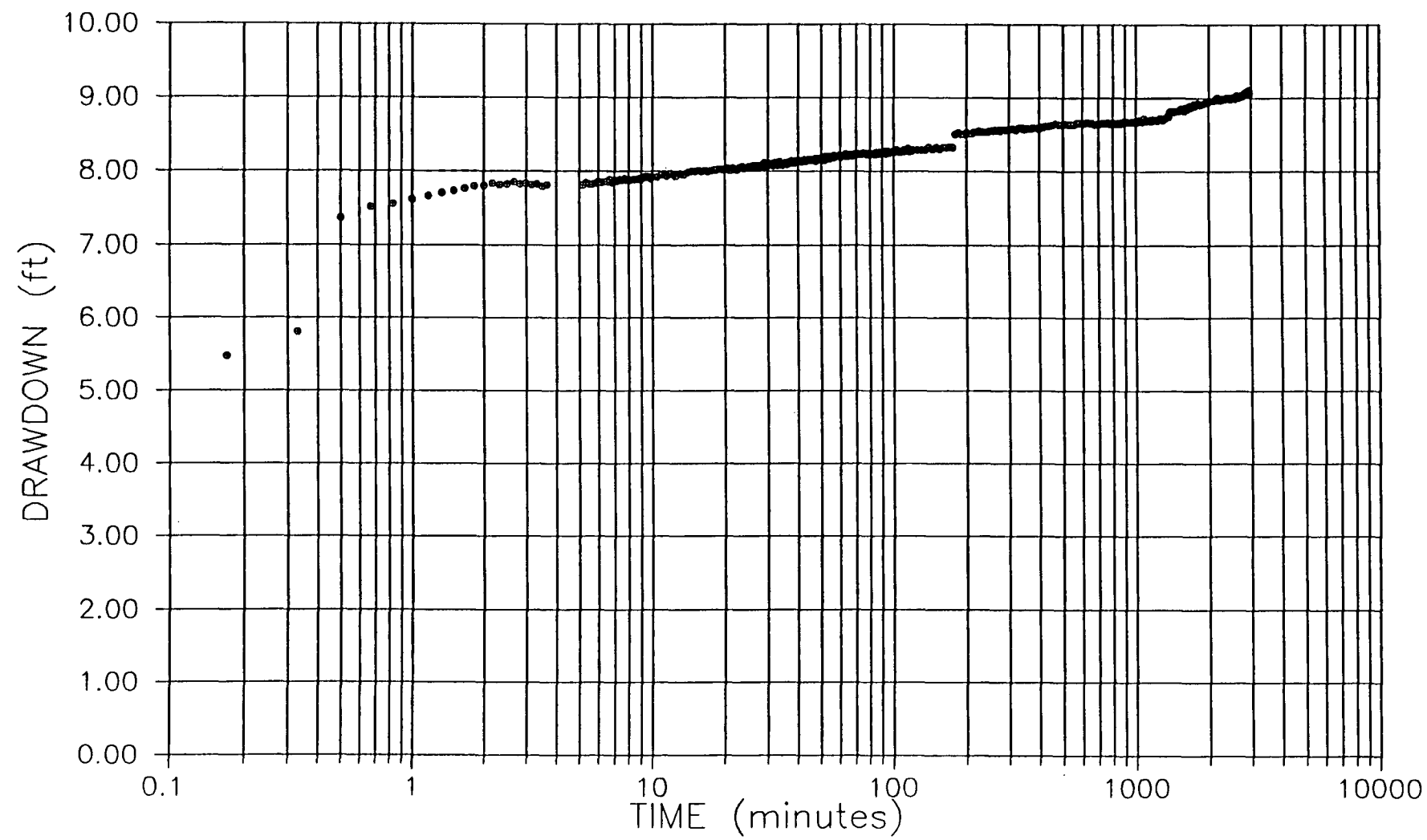


FIGURE B-3

MW-11 HAND DATA

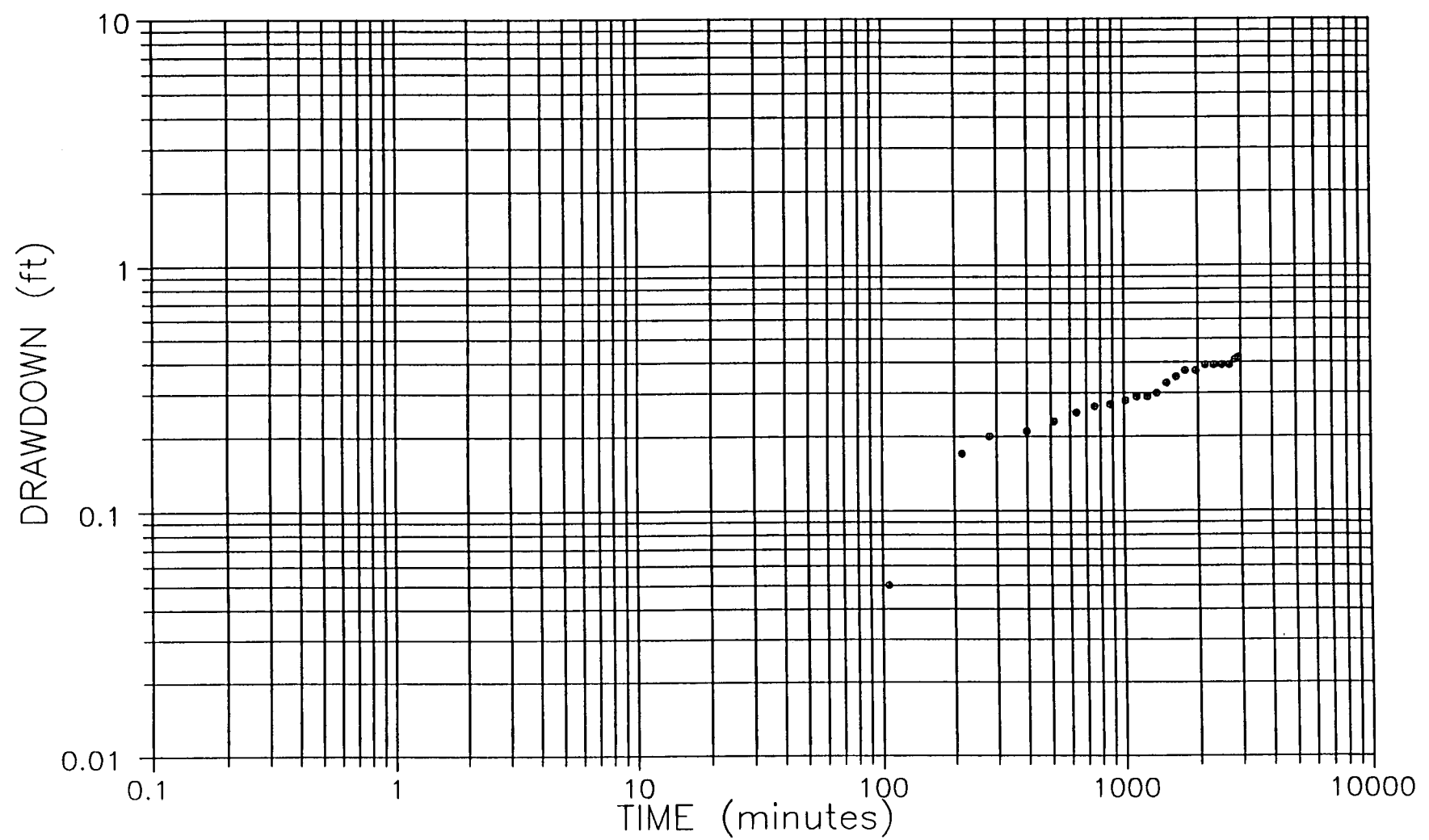


FIGURE B-4

MW-11 DATALOGGER DATA

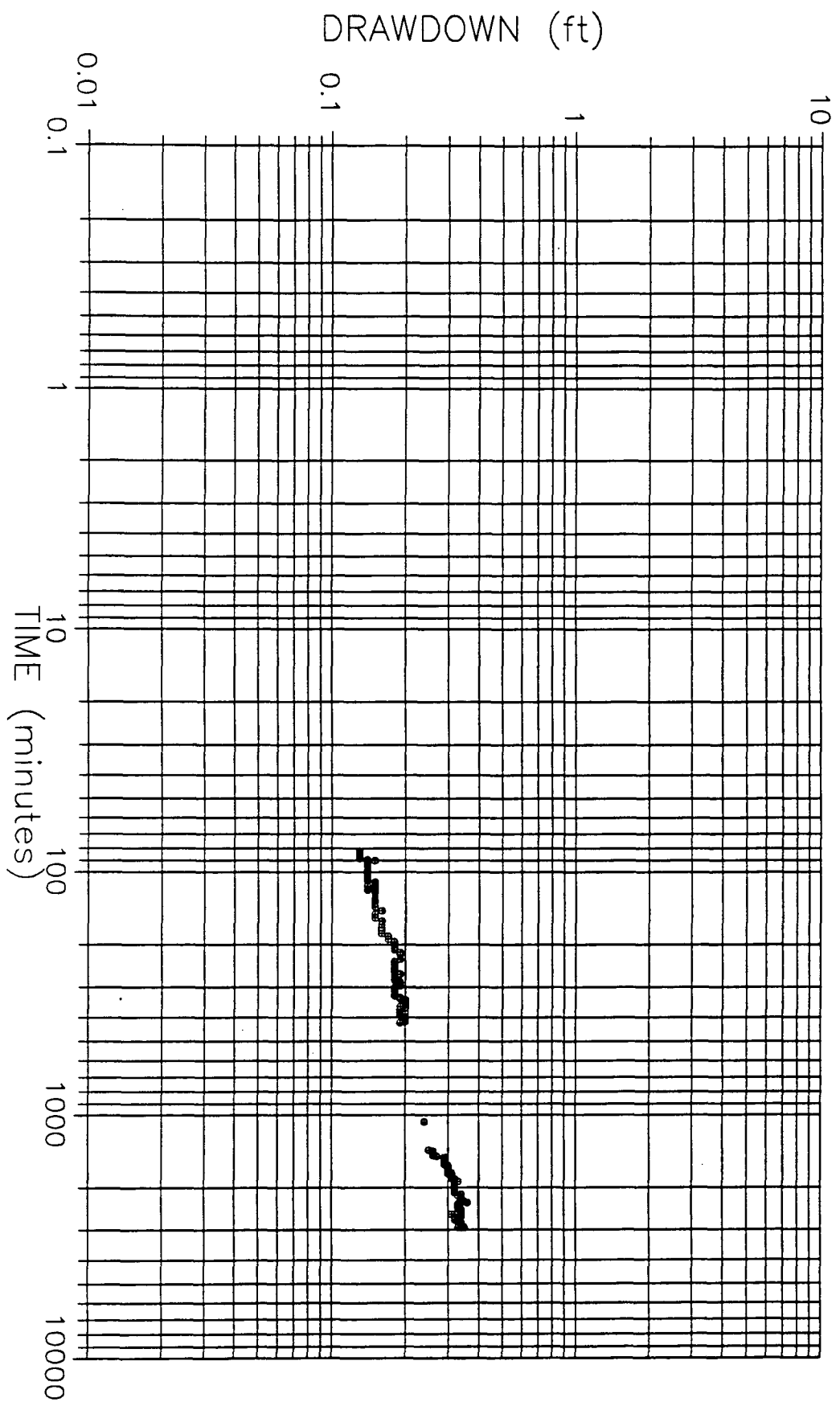


FIGURE B-5

MW-12 HAND DATA

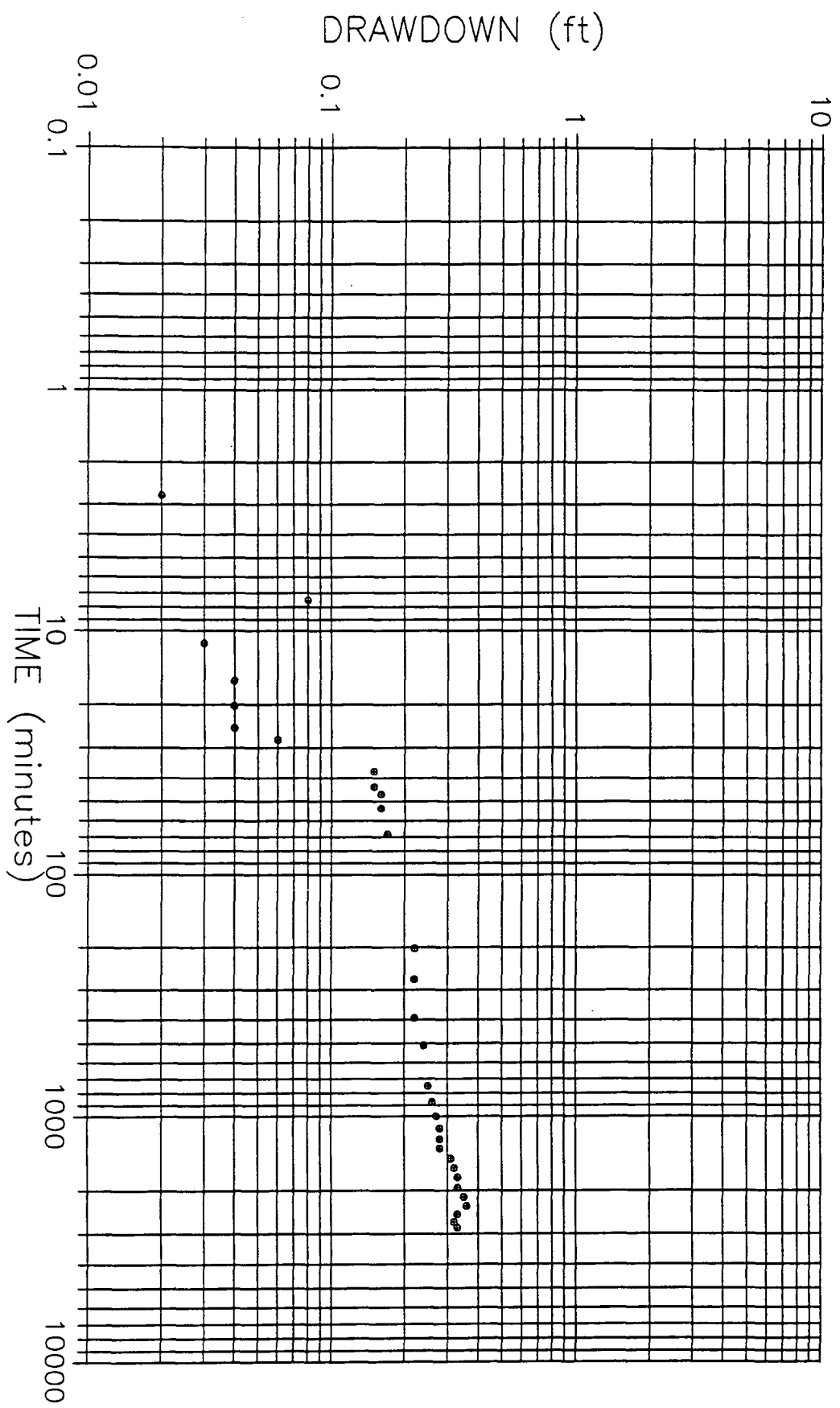


FIGURE B-6

MW-12 DATALOGGER DATA

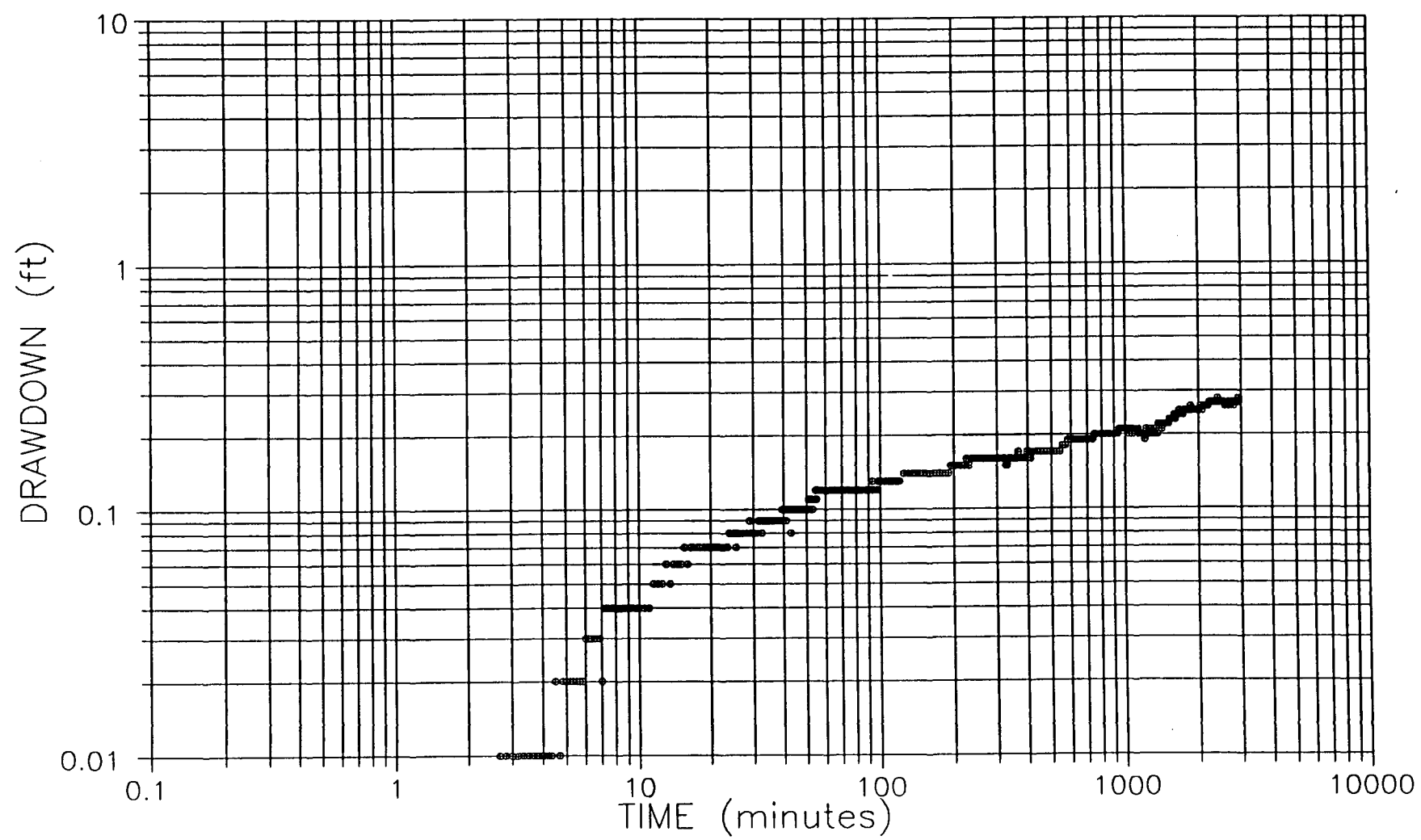


FIGURE B-7

MW-13 HAND DATA

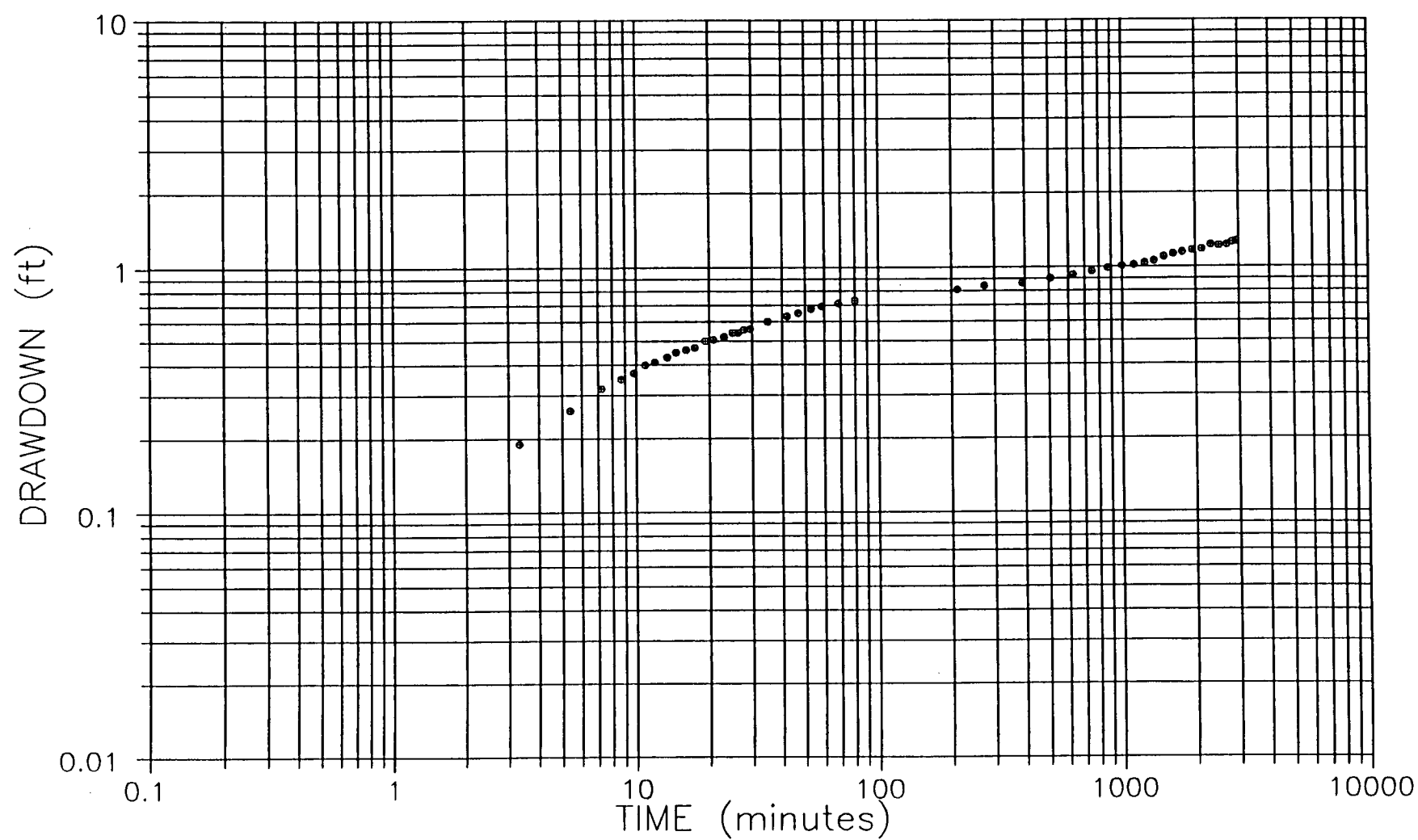


FIGURE B-8

MW-13 DATALOGGER DATA

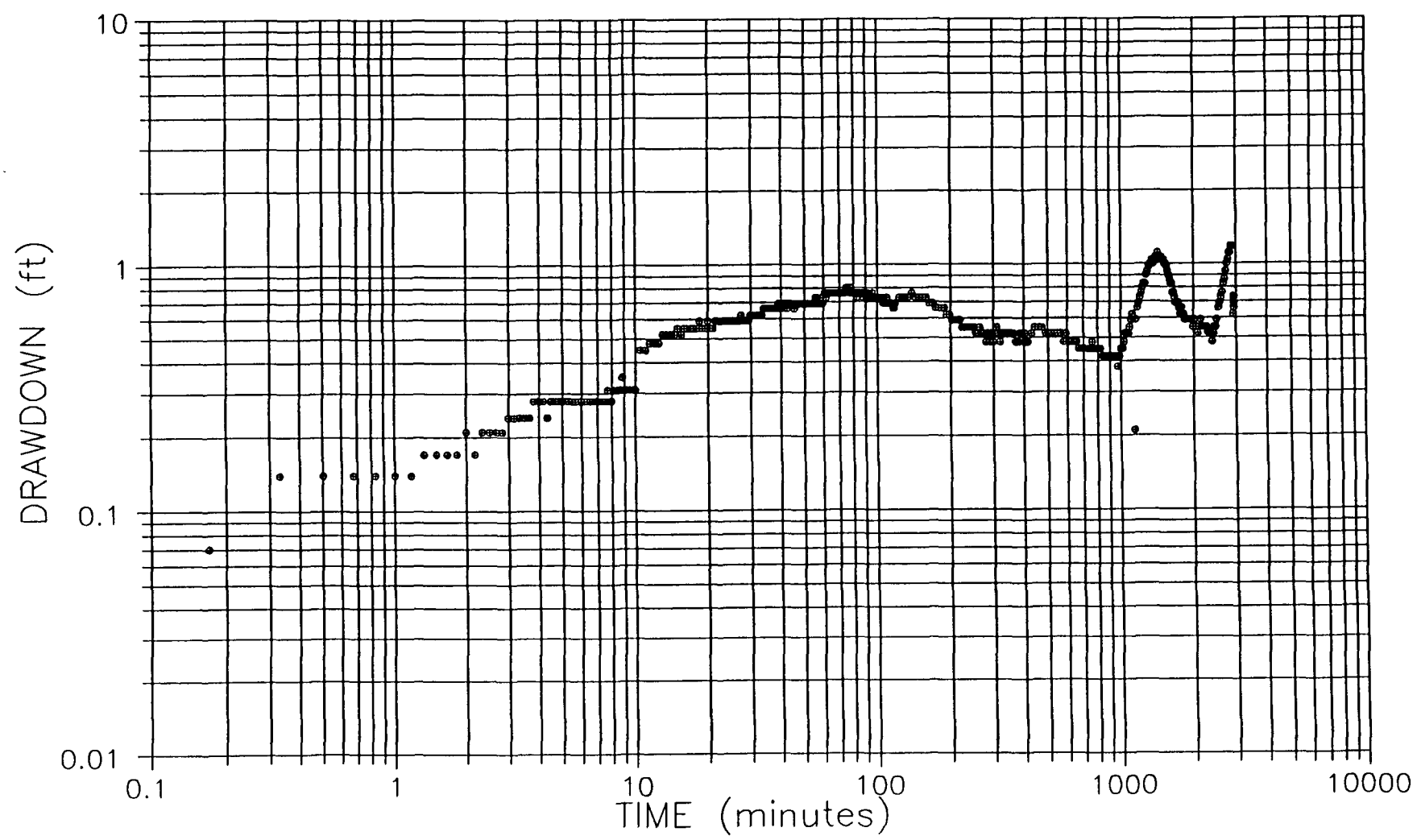


FIGURE B-9

MW-13 HAND DATA SEMI-LOG

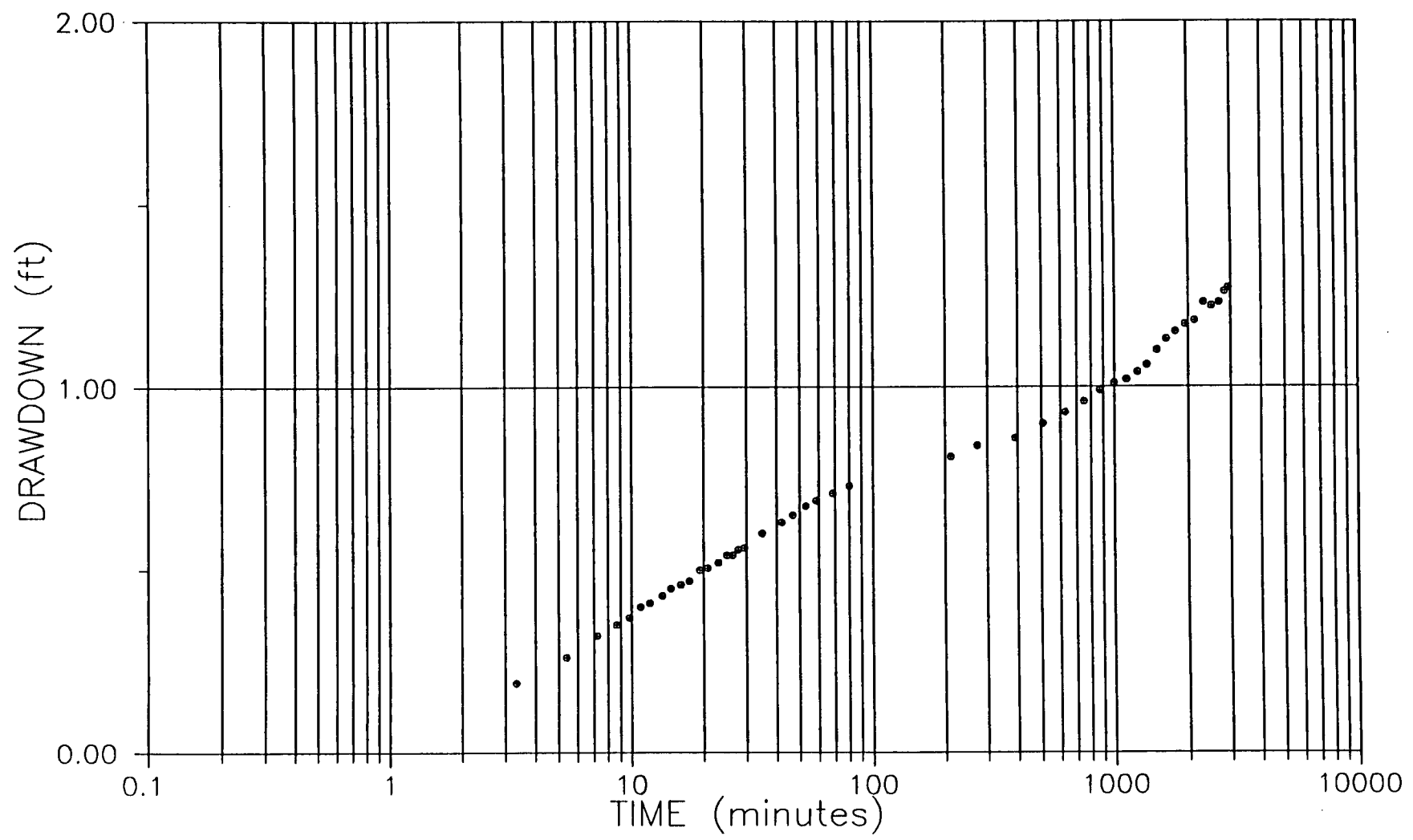


FIGURE B-10

MW-14 HAND DATA

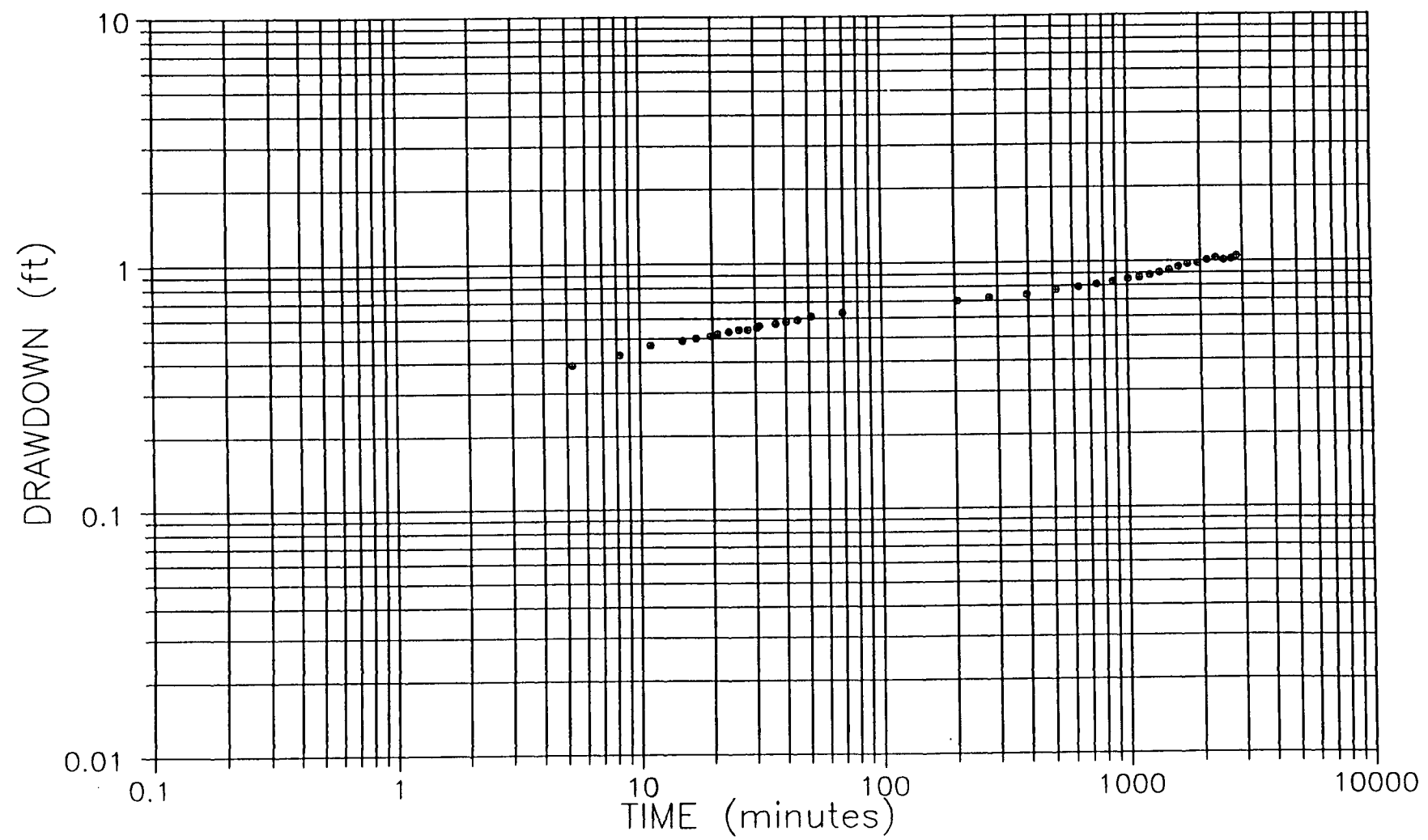


FIGURE B-11

MW-14 DATA LOGGER

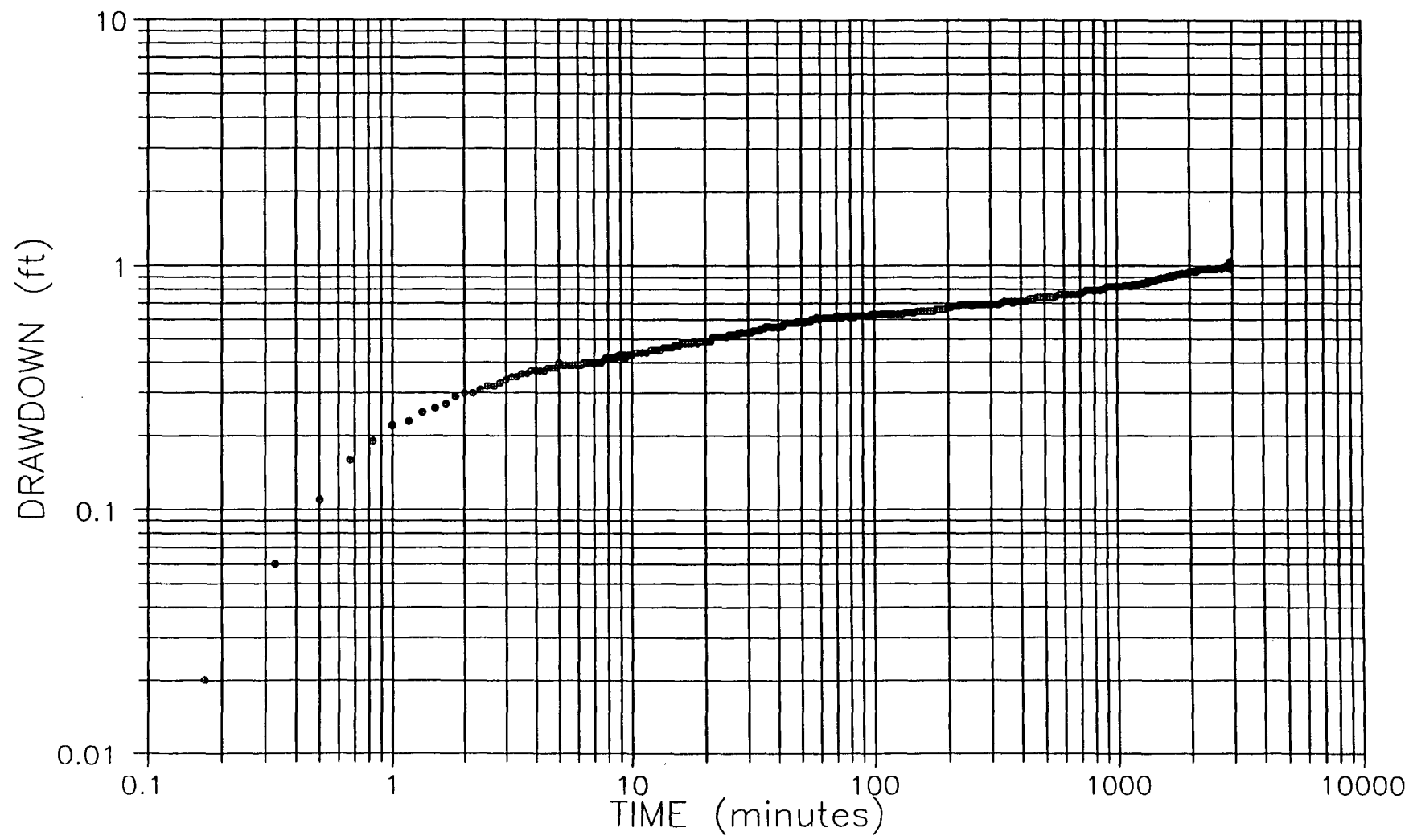


FIGURE B-12

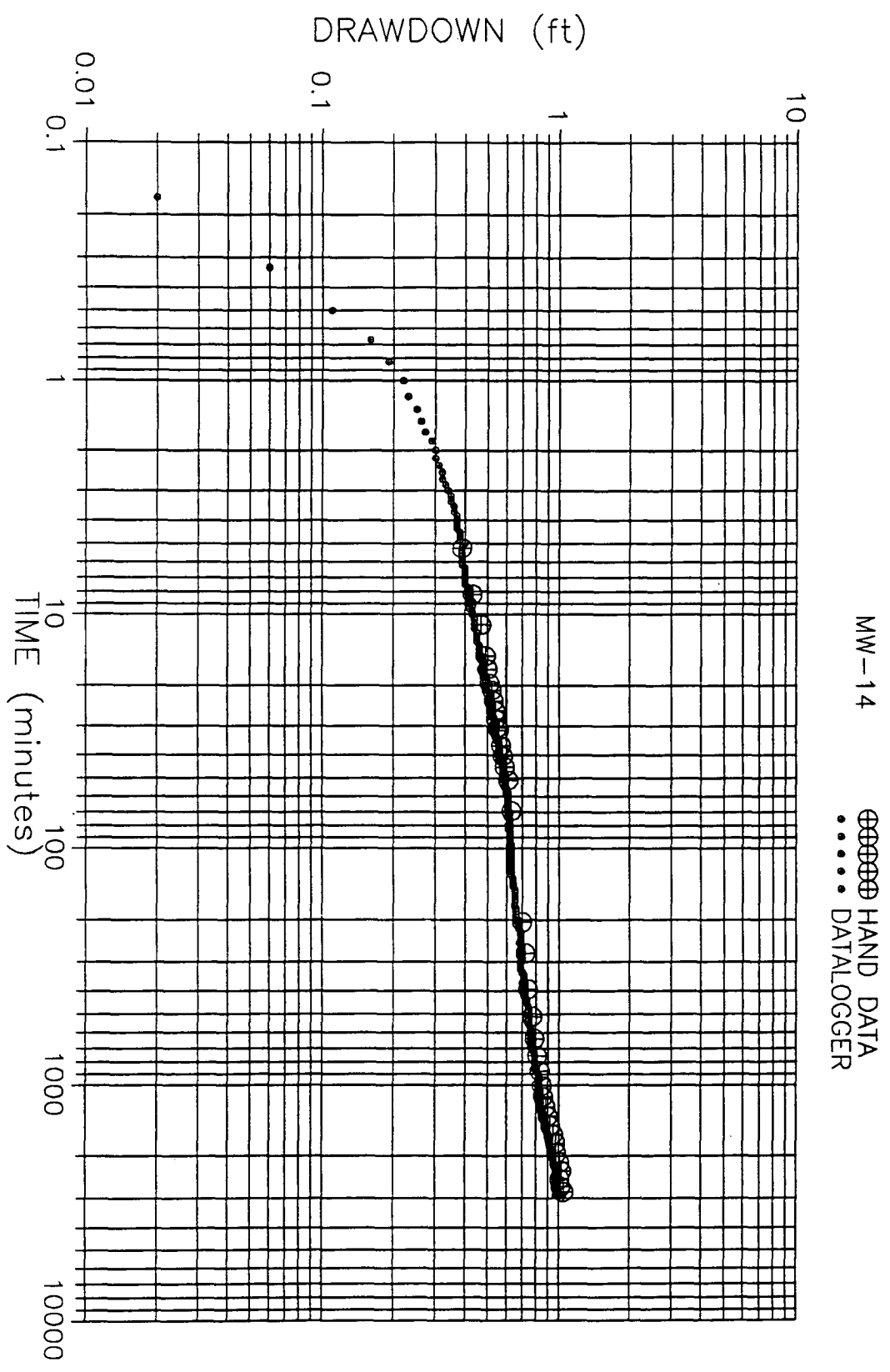


FIGURE B-13

MW-15 HAND DATA

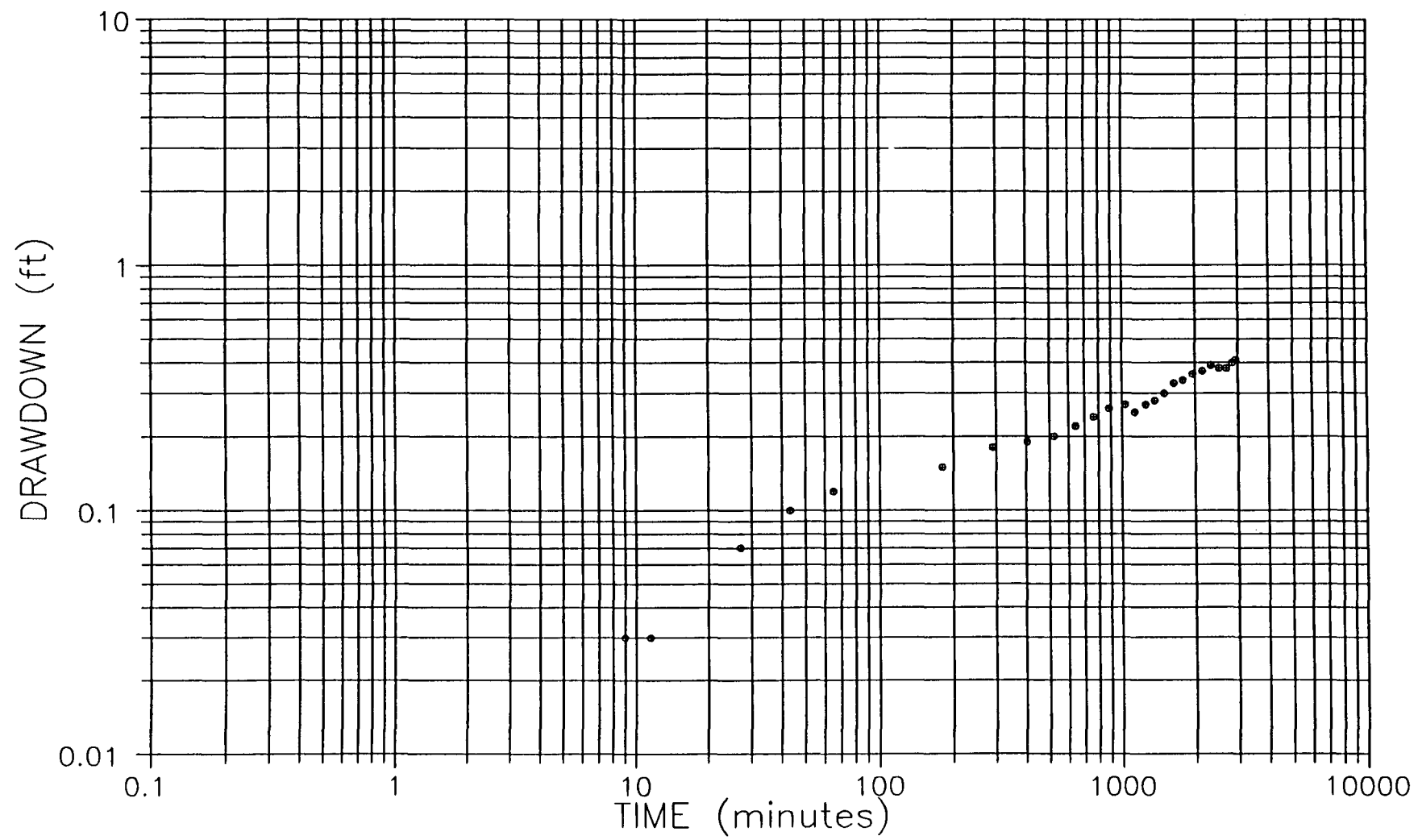


FIGURE B-14

MW-15 DATALOGGER DATA

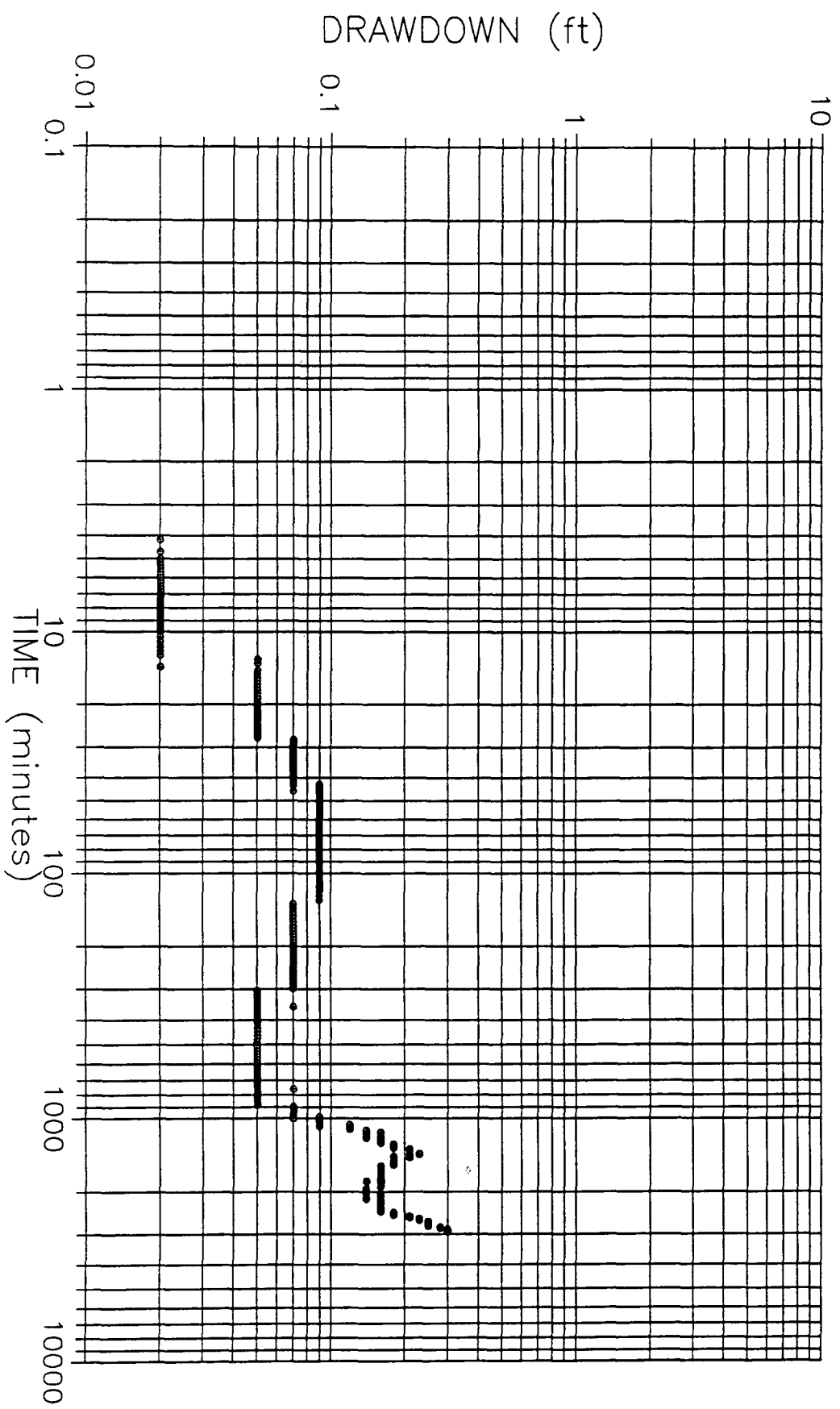


FIGURE B-15

MW-15 HAND DATA

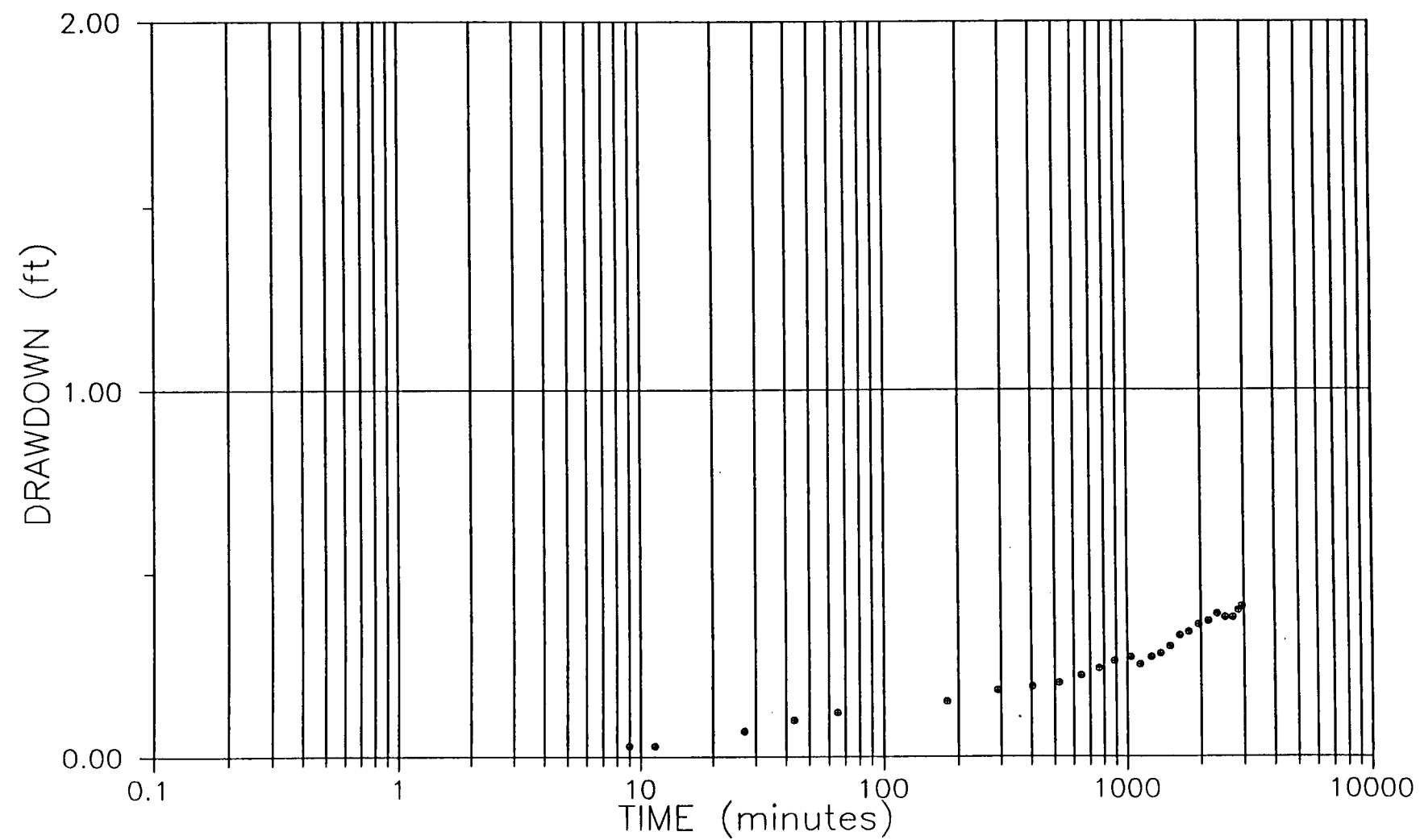


FIGURE B-16

MW-16 HAND DATA

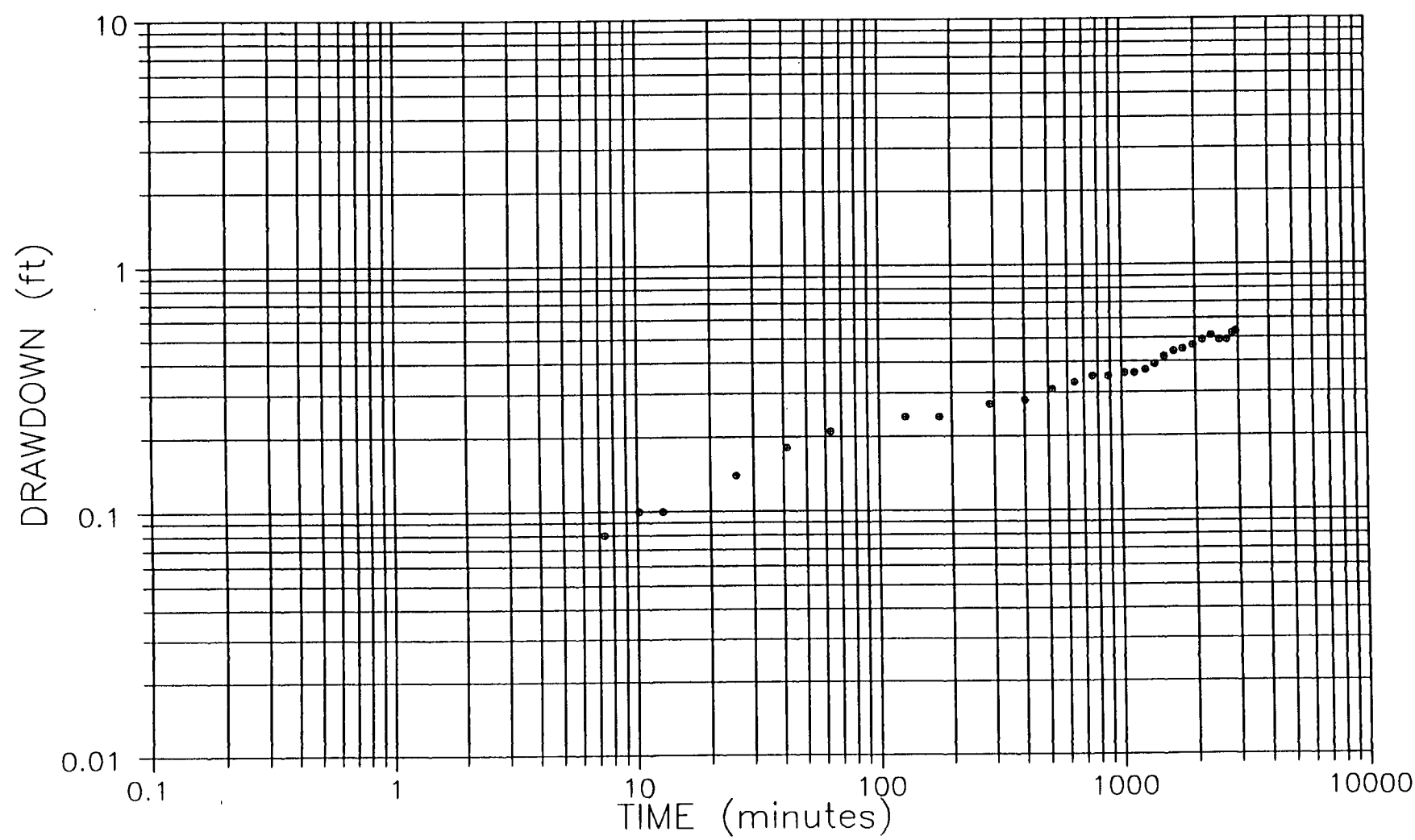


FIGURE B-17

MW-16 HAND DATA

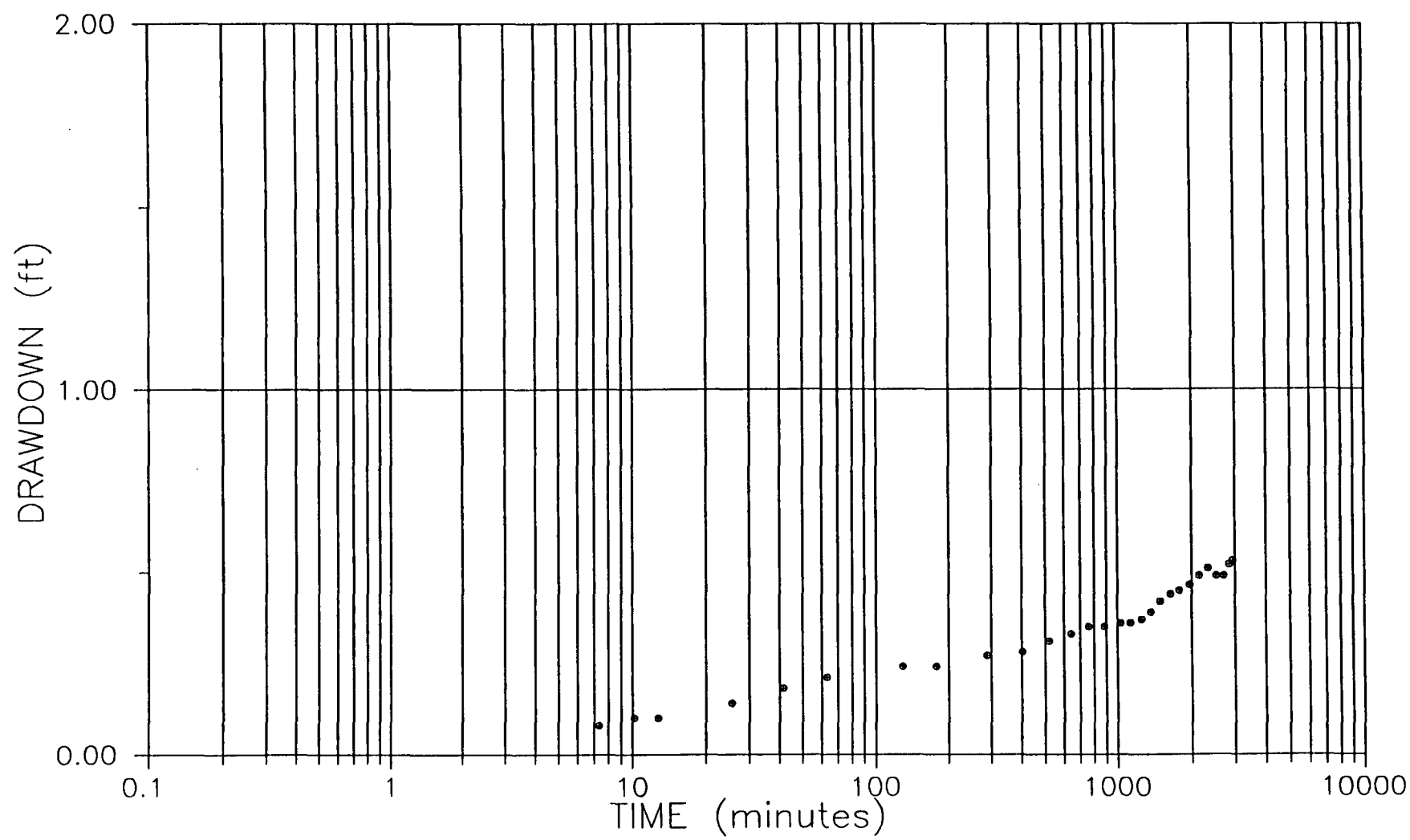


FIGURE B-18

MW-17 HAND DATA

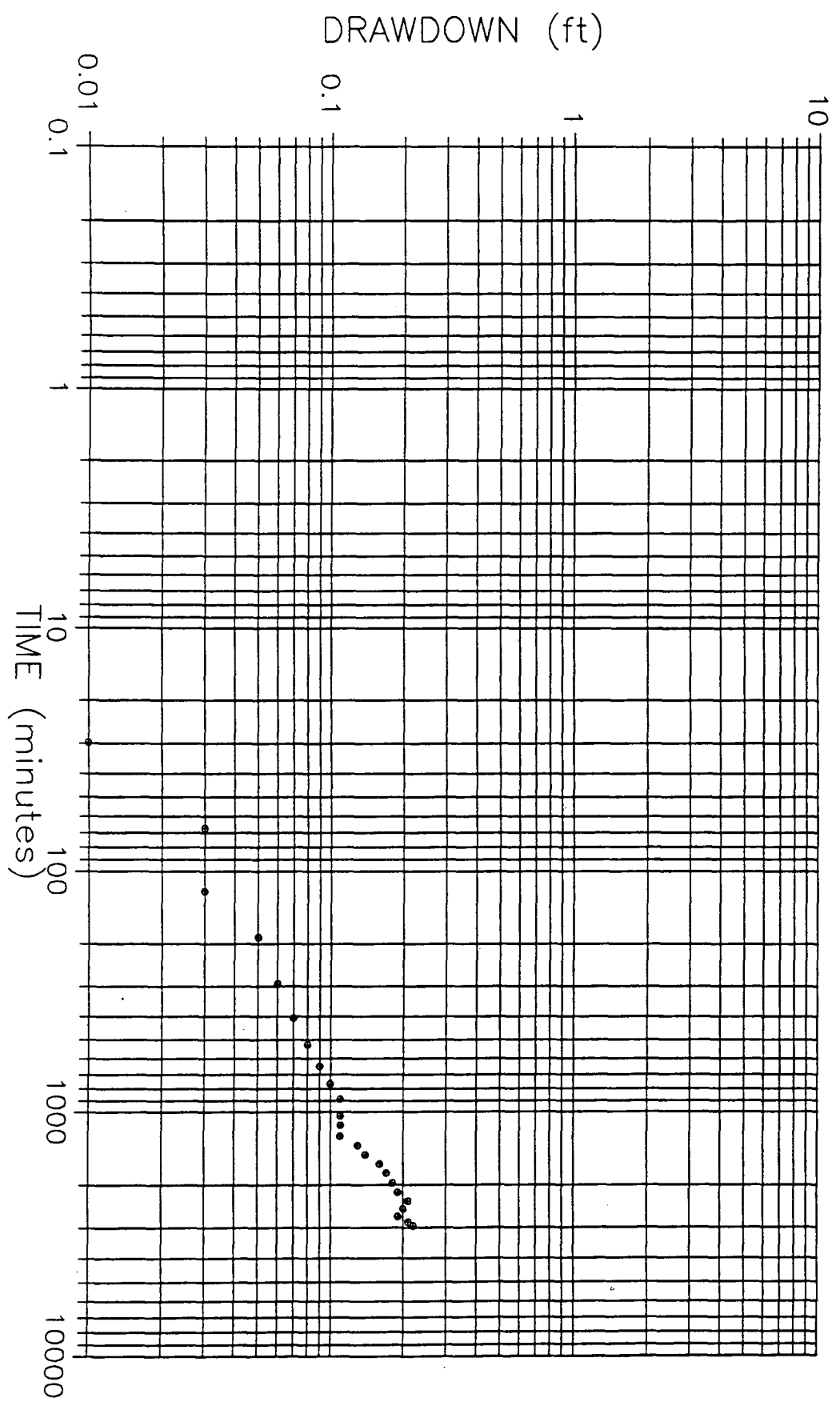


FIGURE B-19

MW-17 DATALOGGER DATA

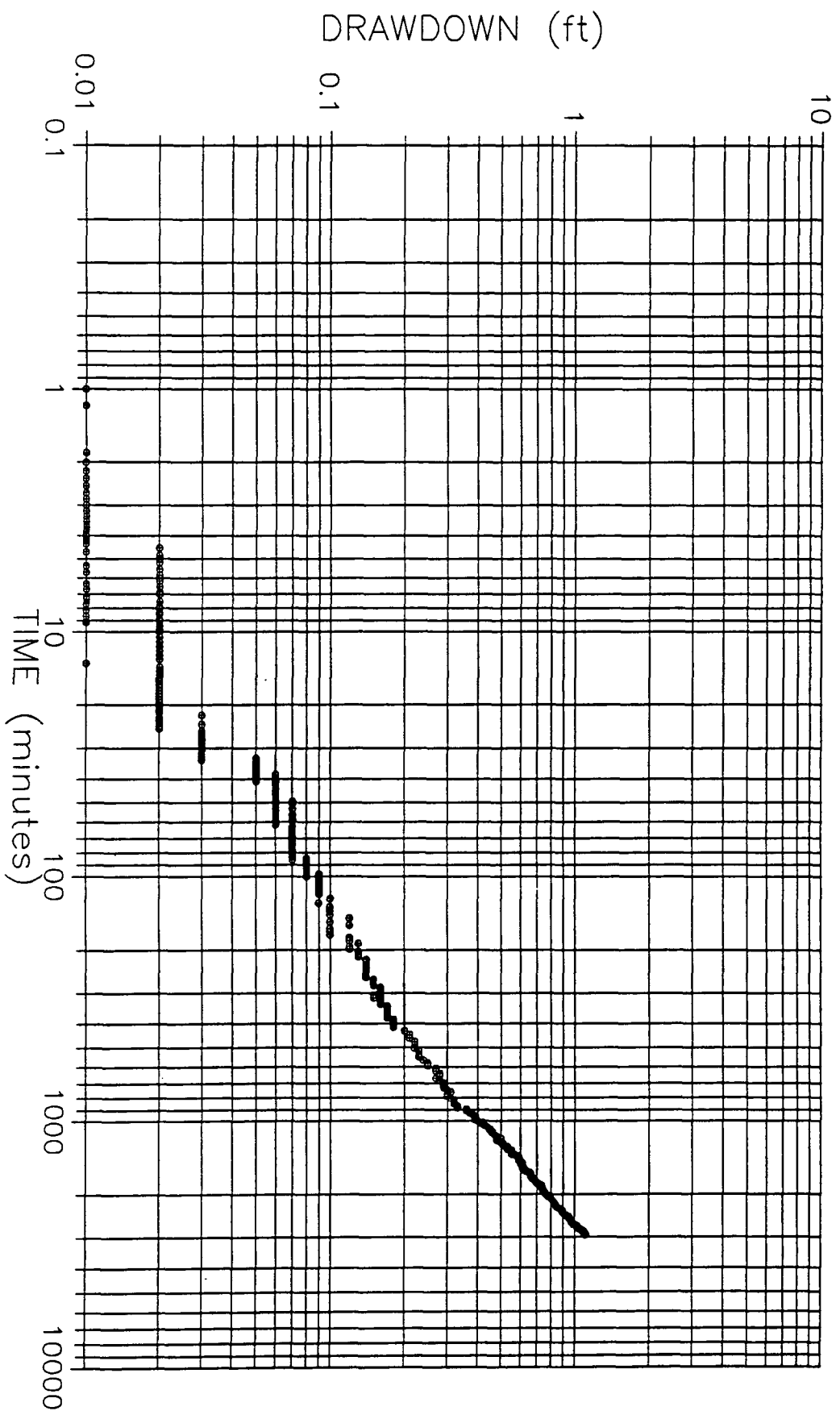


FIGURE B-20

MW-17 HAND DATA

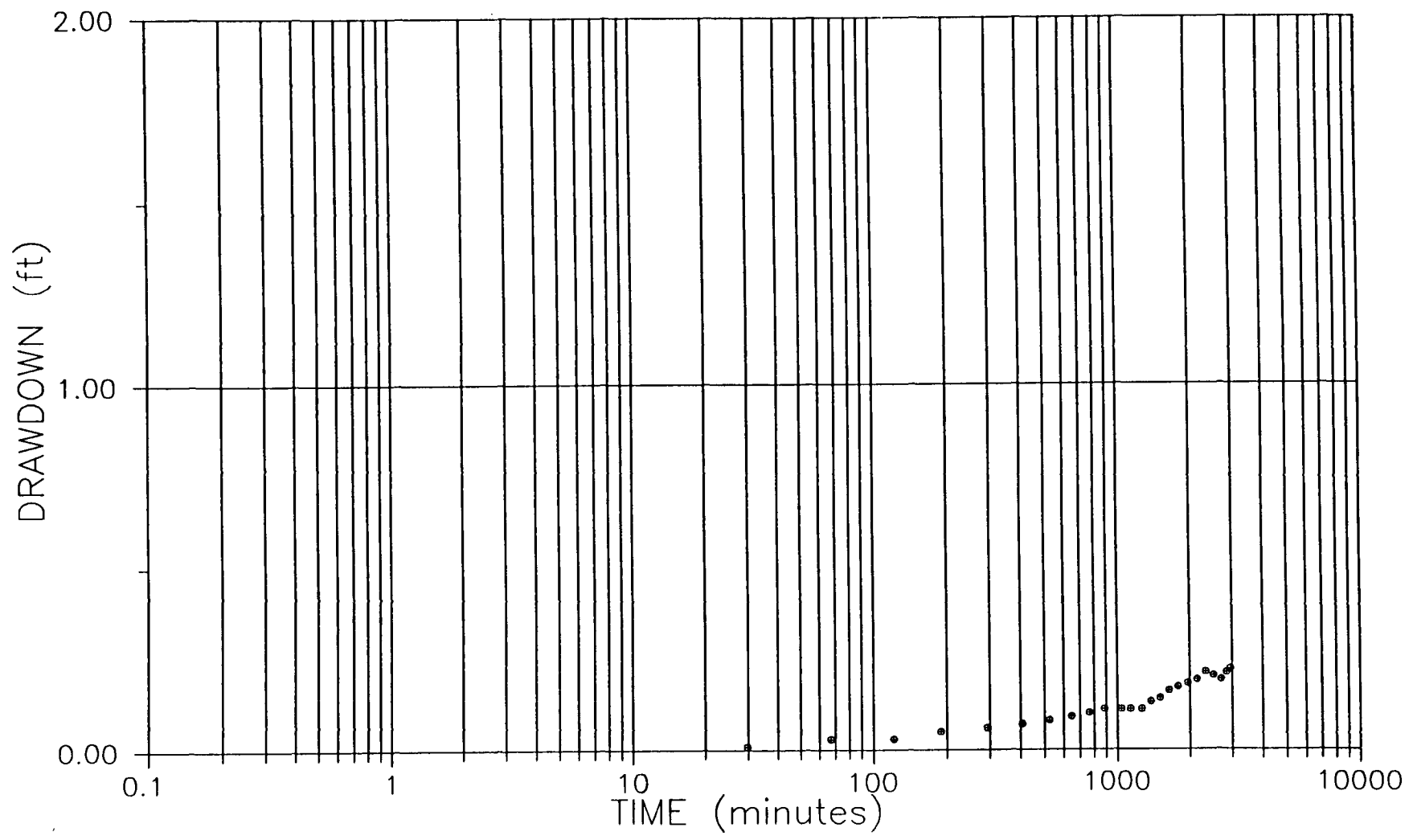


FIGURE B-21

MW-18 HAND DATA

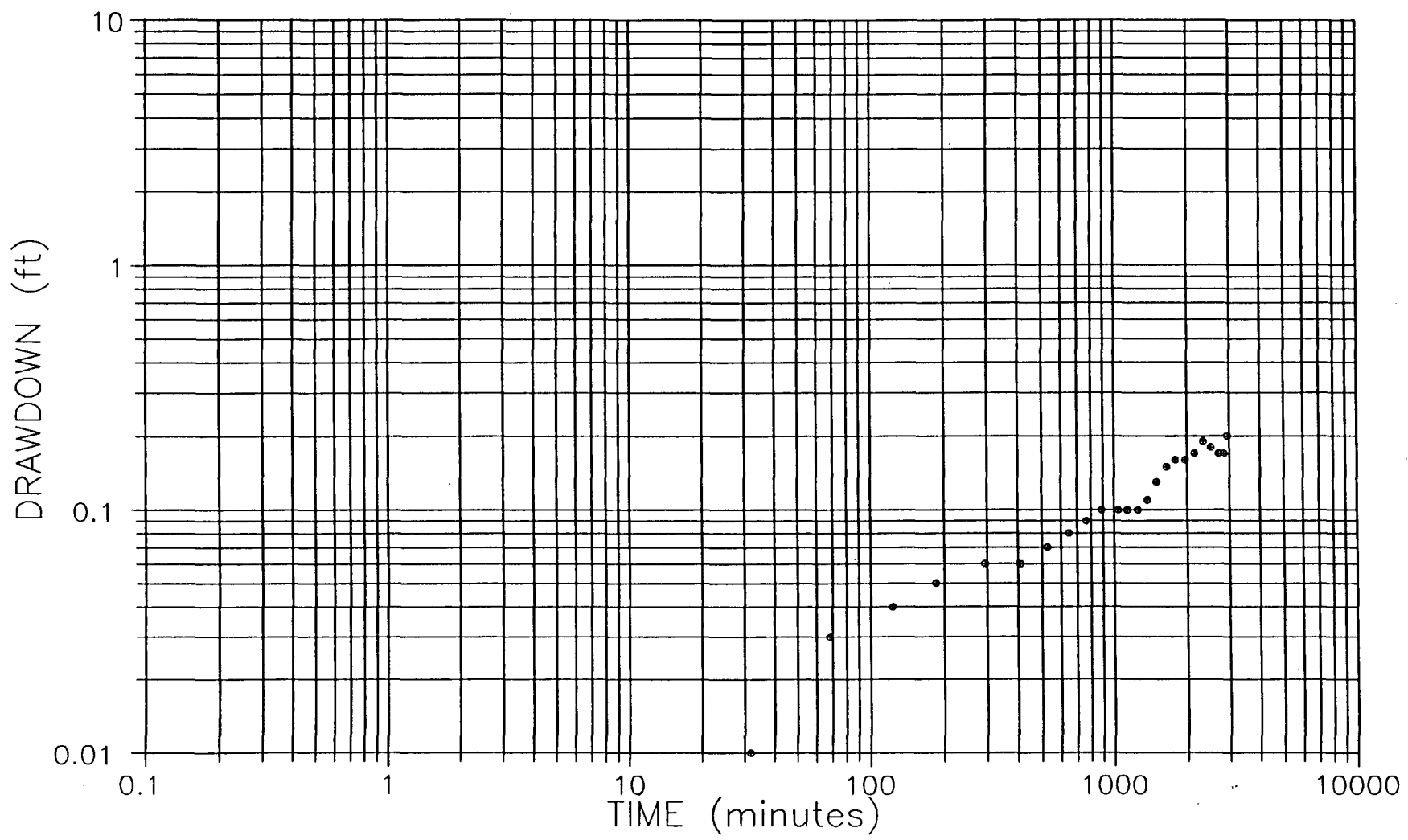


FIGURE B-22

MW-18 DATALOGGER DATA

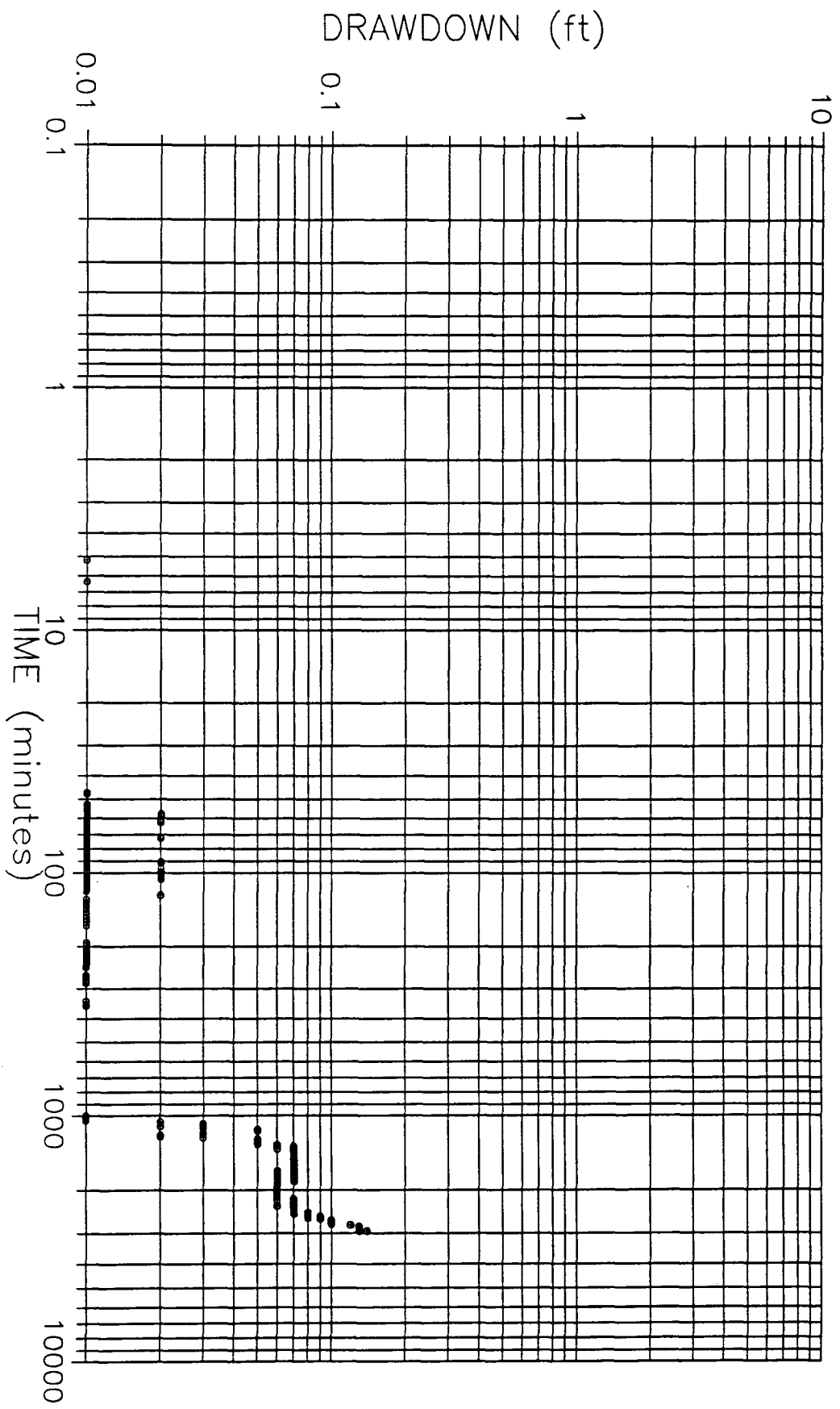


FIGURE B-23

MW-28 HAND DATA

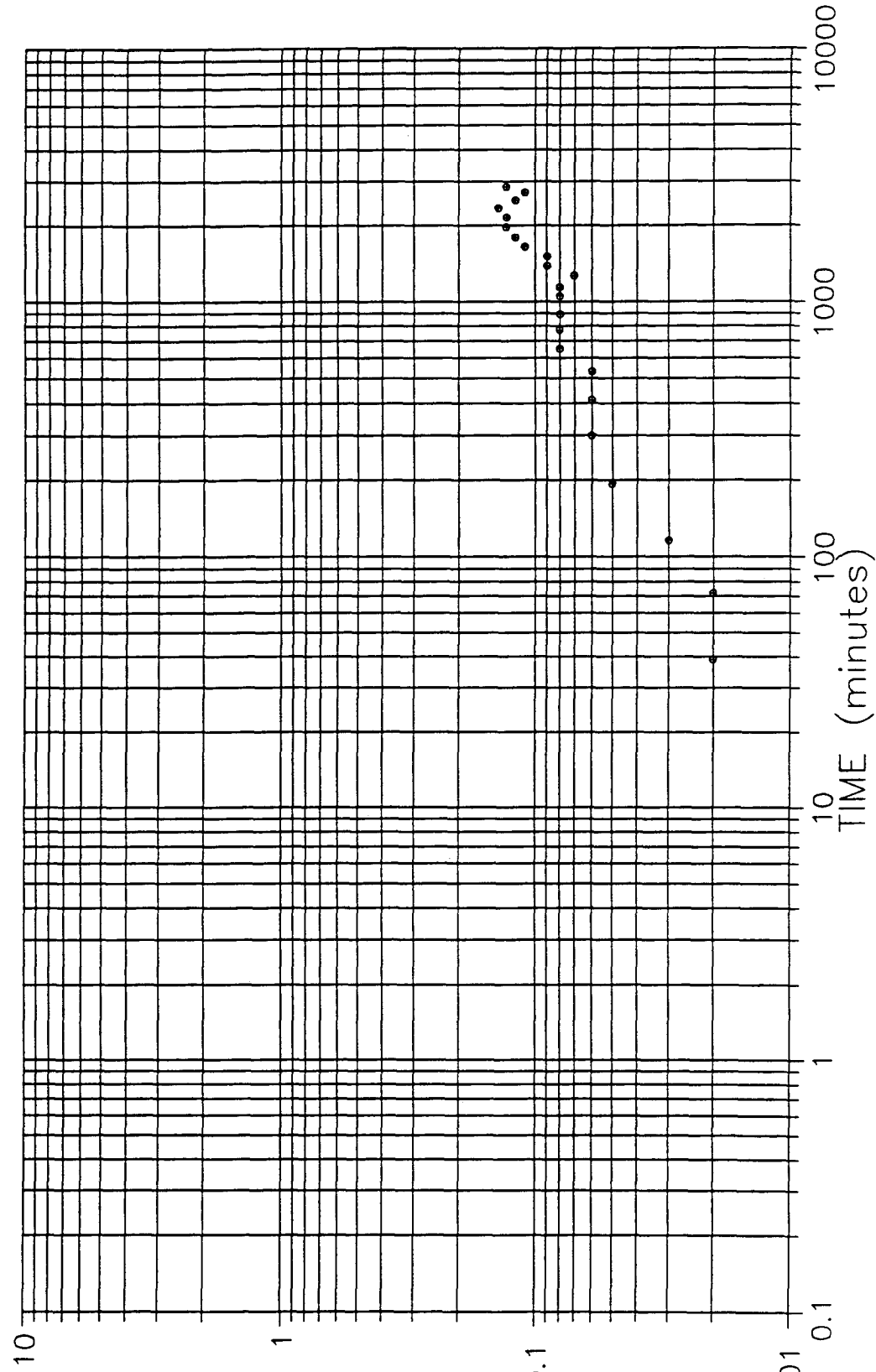


FIGURE B-24

MW-28 DATALOGGER DATA

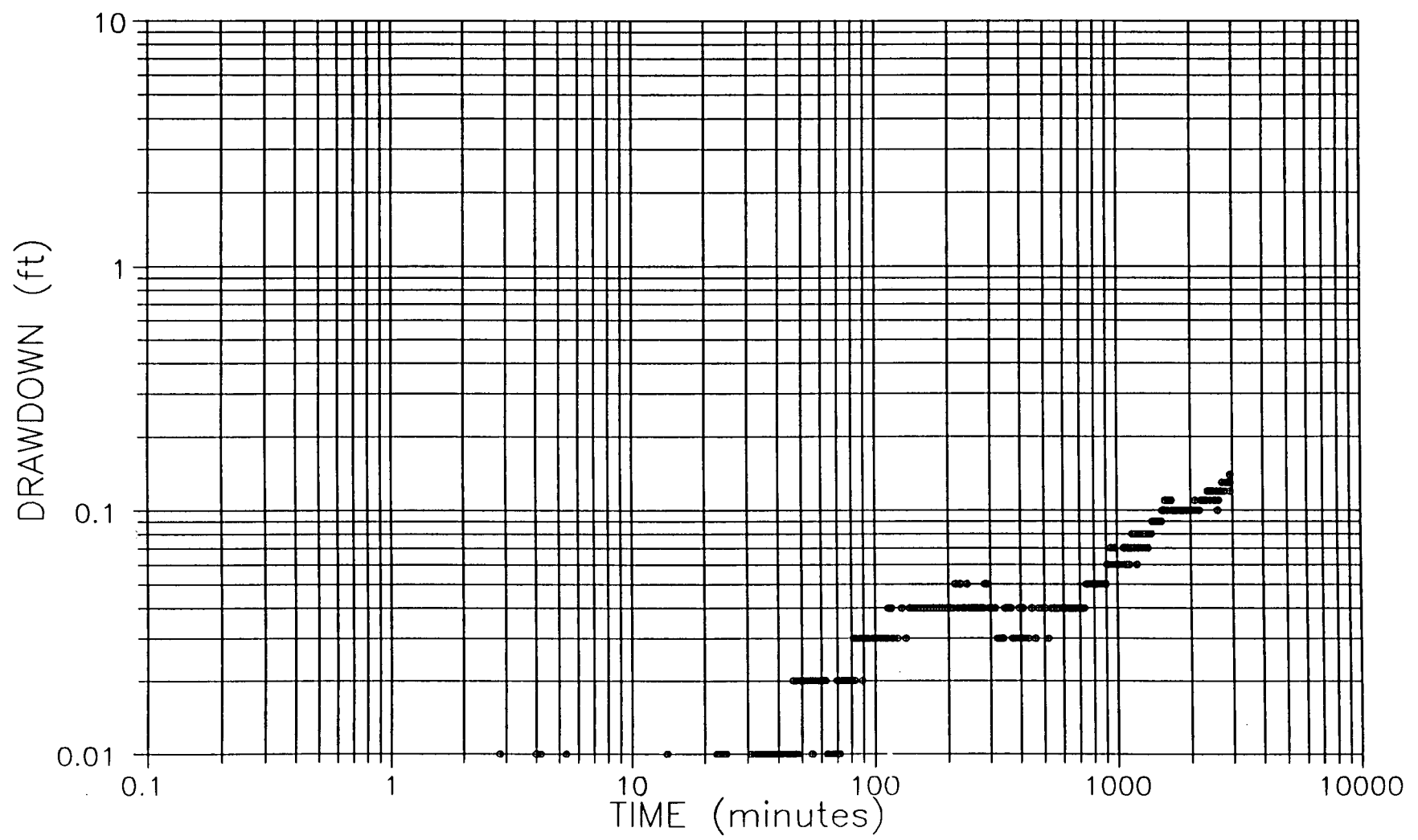


FIGURE B-25

MW-29 HAND DATA

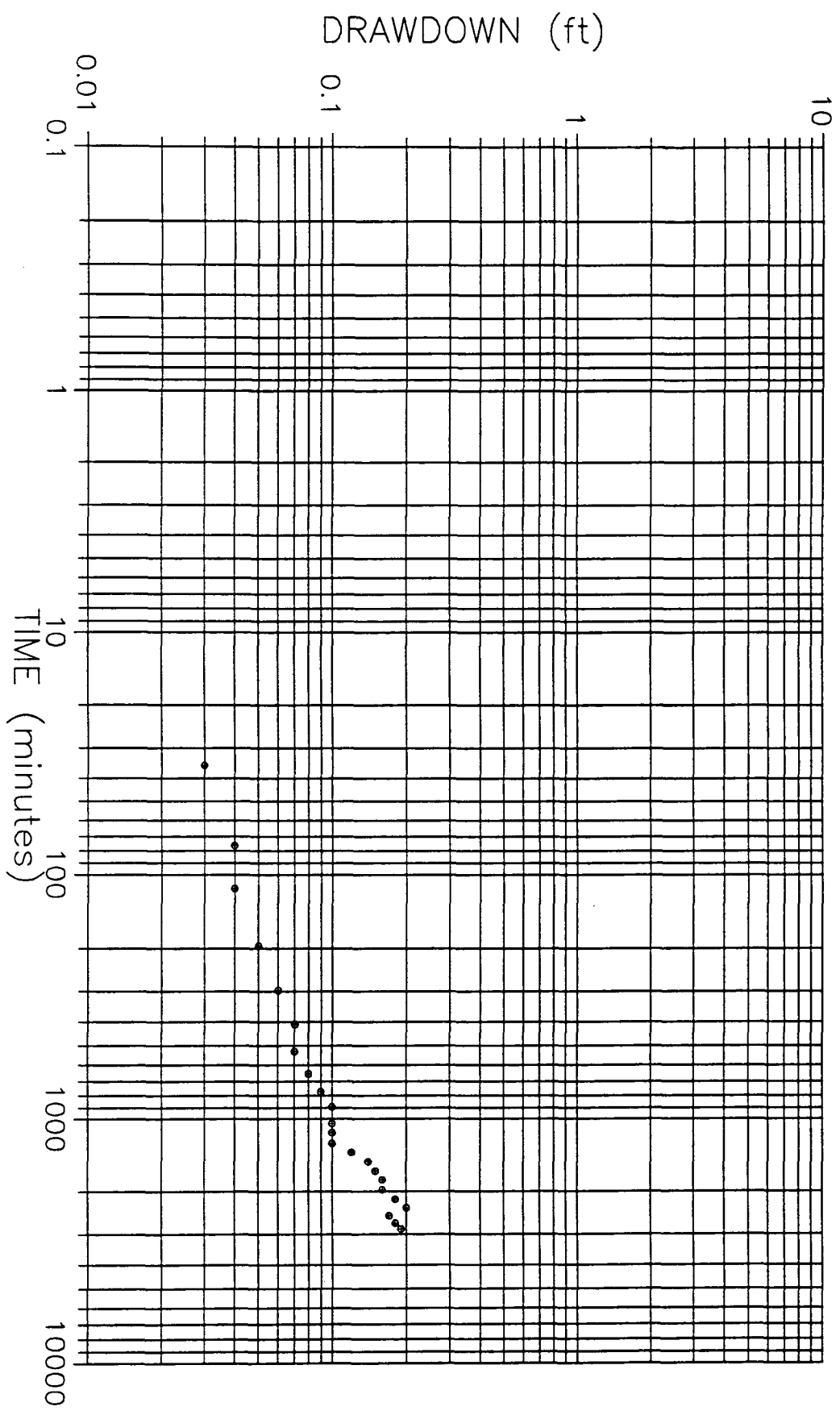


FIGURE B-26

MW-29 DATALOGGER DATA

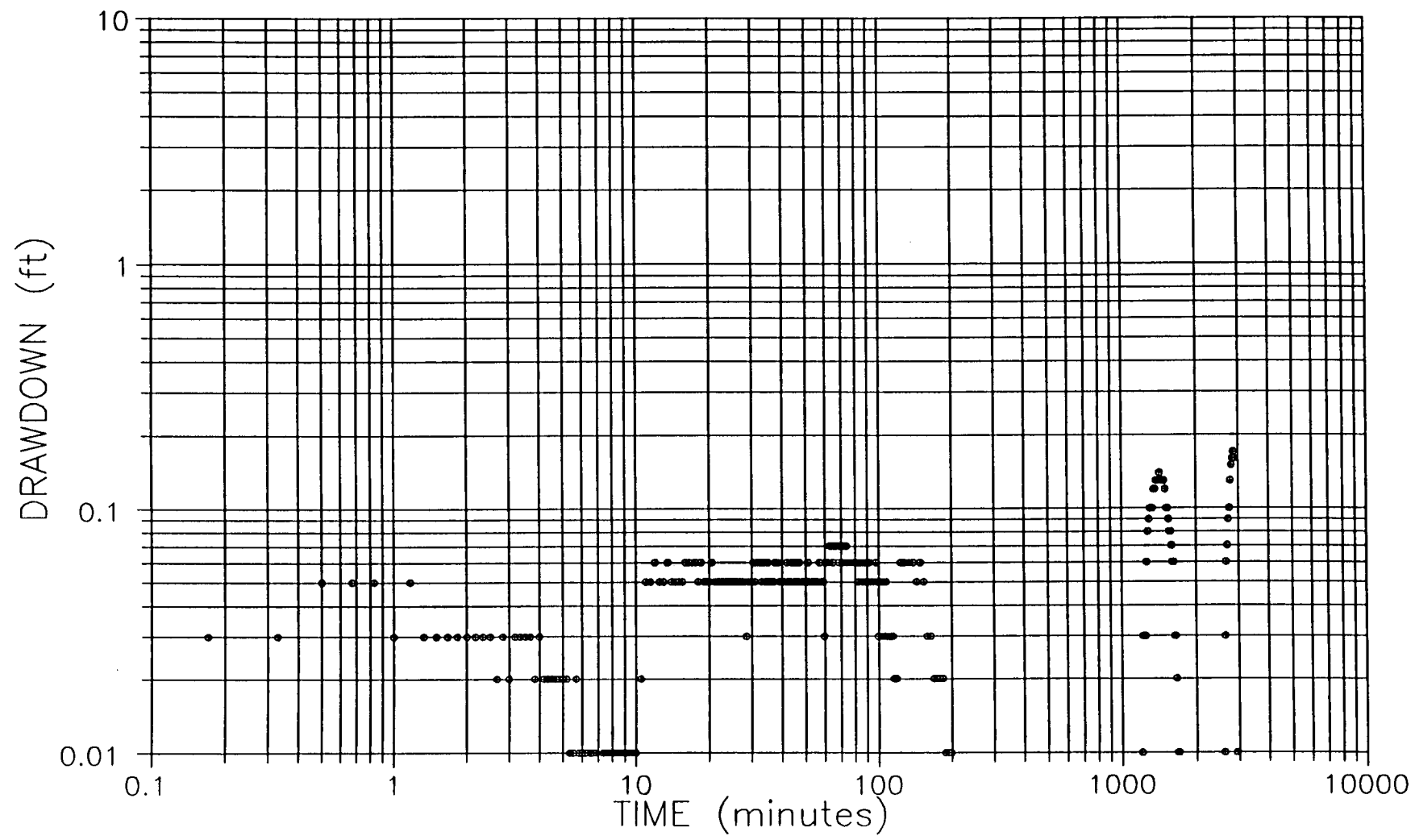


FIGURE B-27

MW-30 HAND DATA

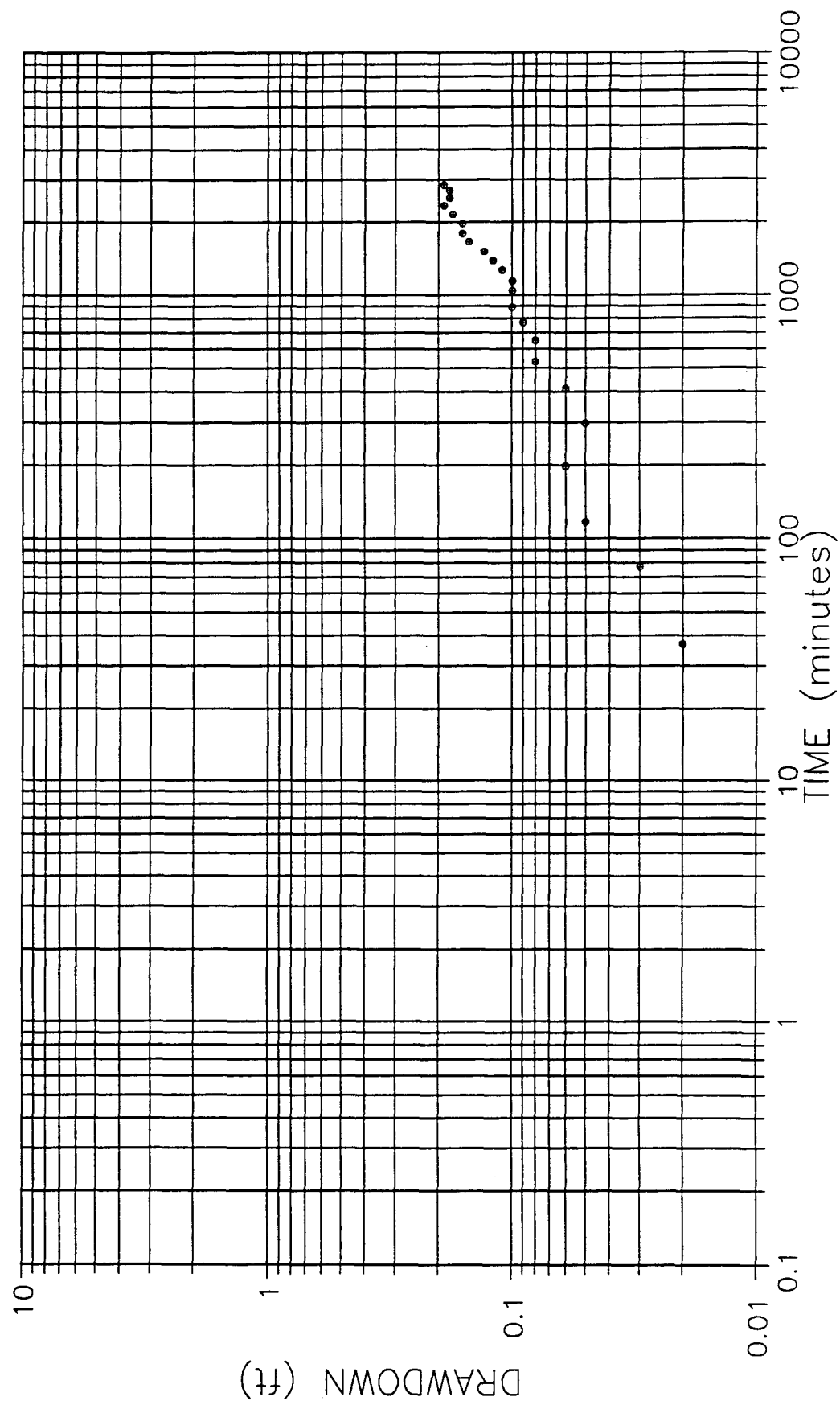


FIGURE B-28

MW-30 DATALOGGER DATA

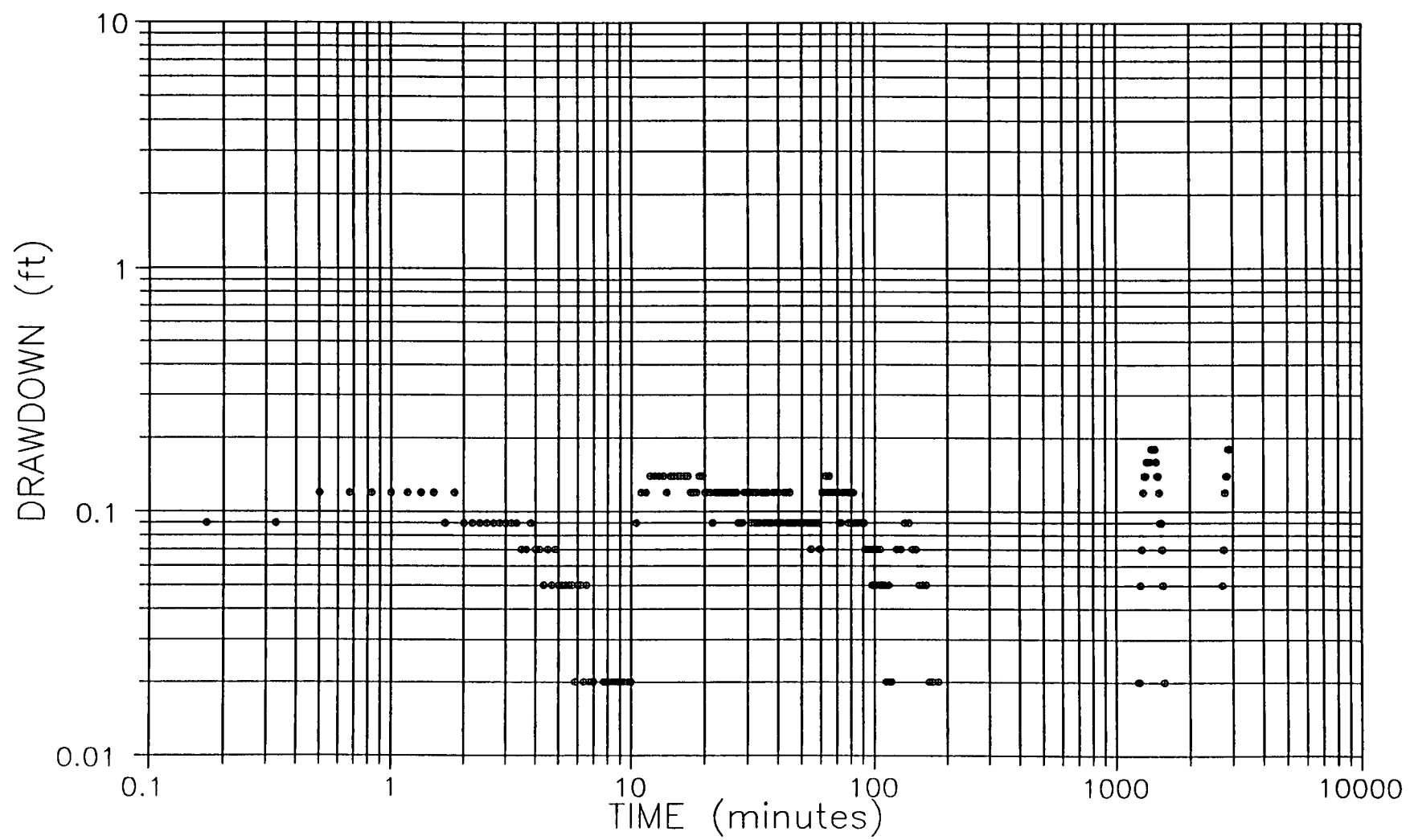


FIGURE B-29

MW-33 HAND DATA

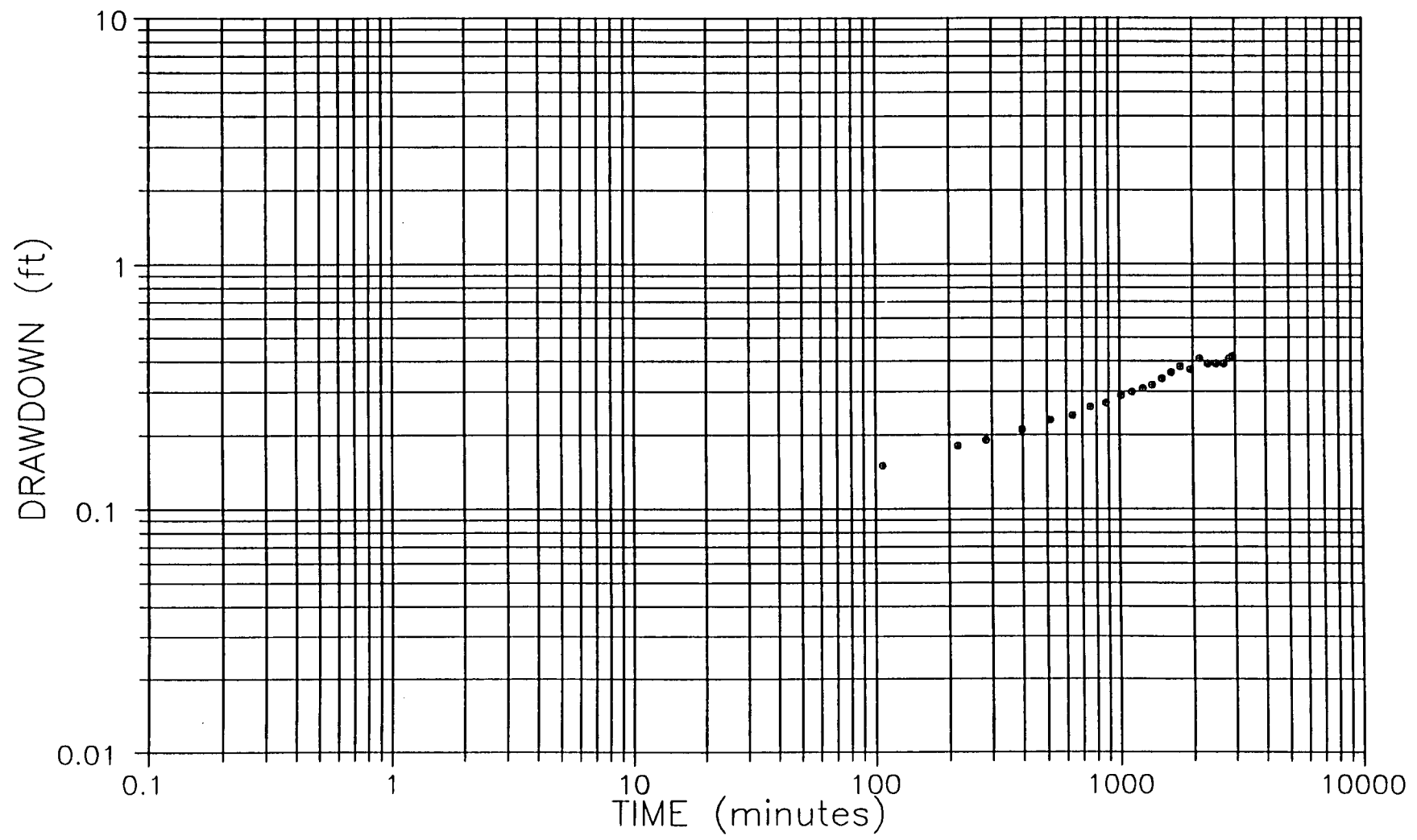


FIGURE B-30

MW-33 DATALOGGER

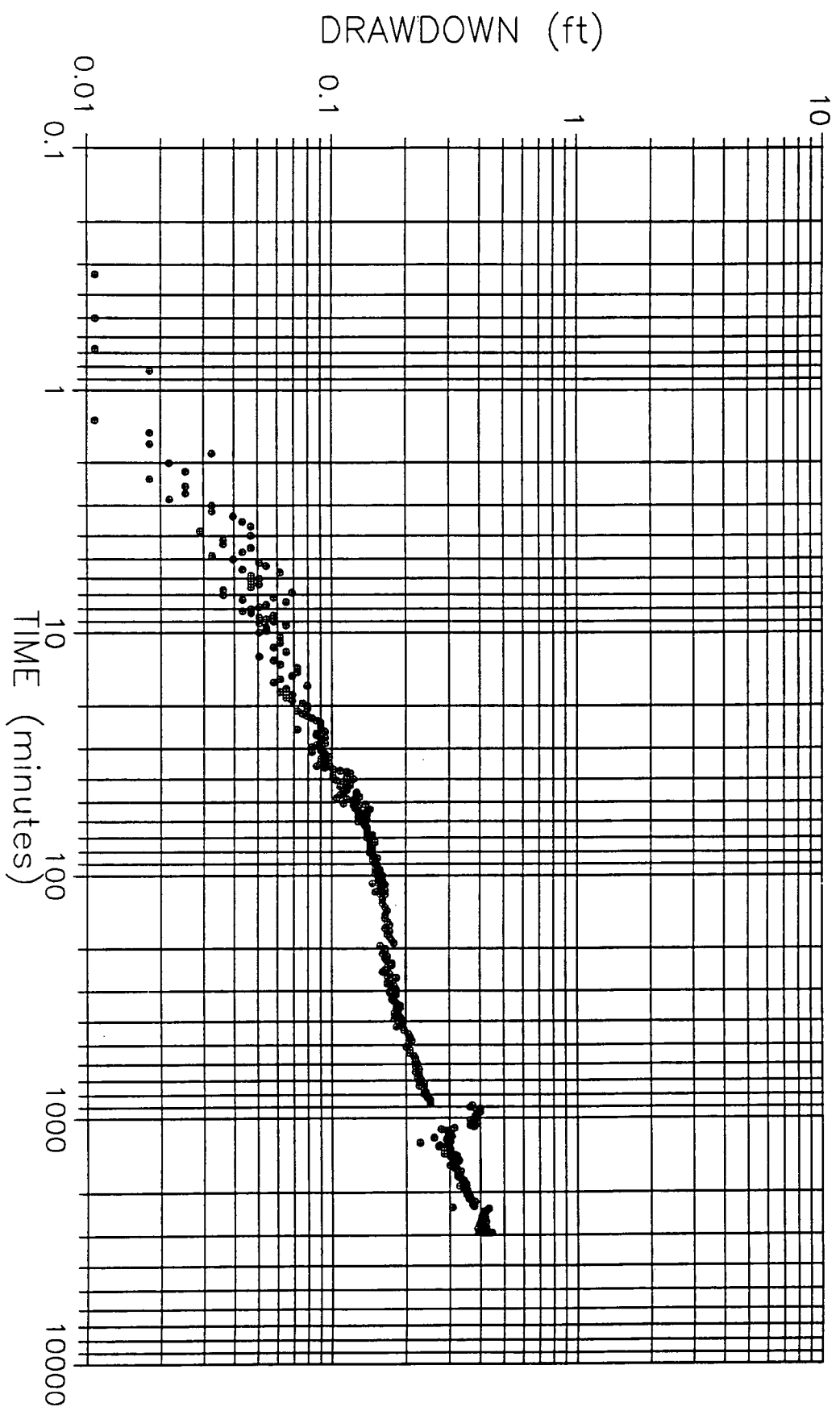


FIGURE B-31

MW-41 HAND DATA

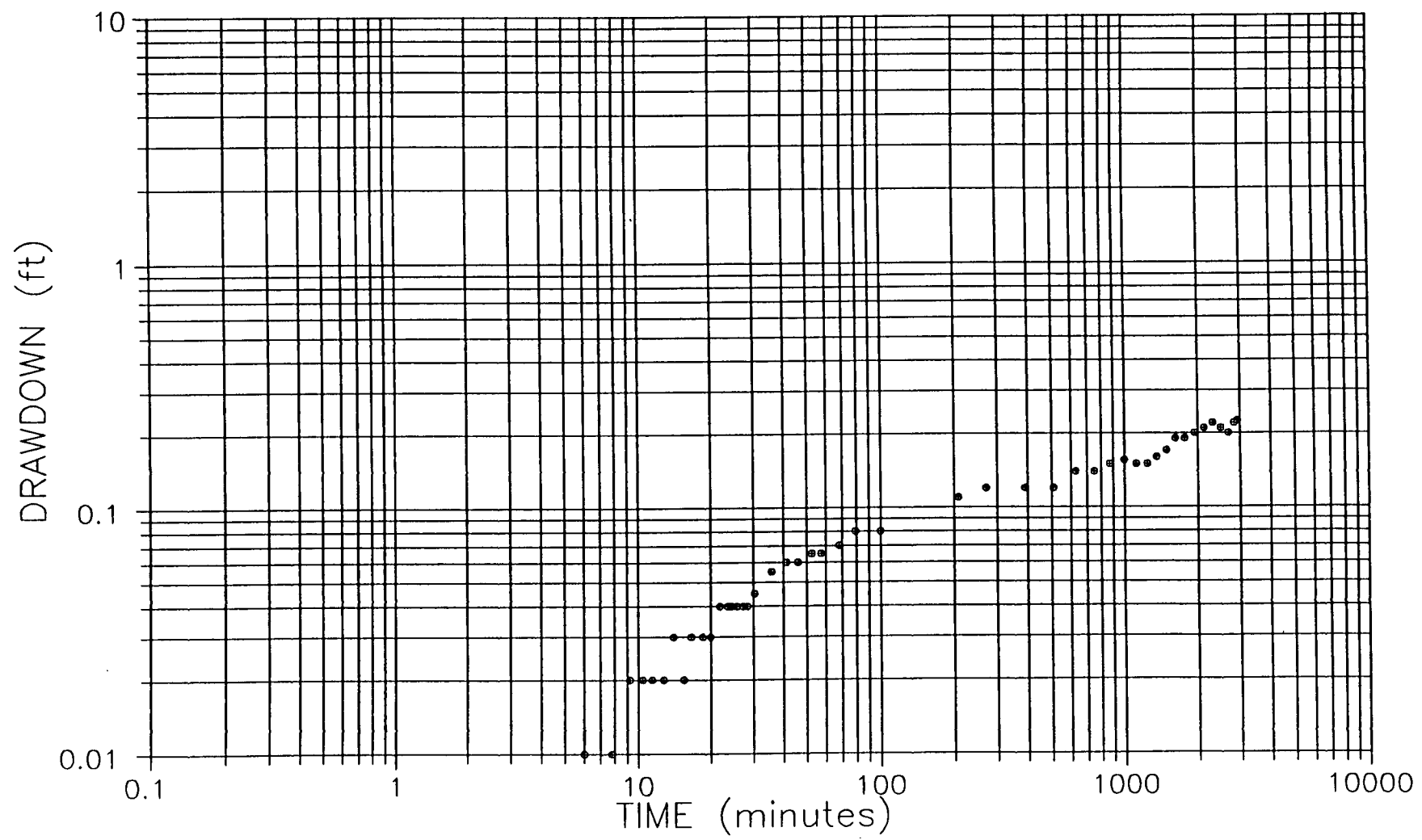


FIGURE B-32

MW-41 DATALOGGER DATA

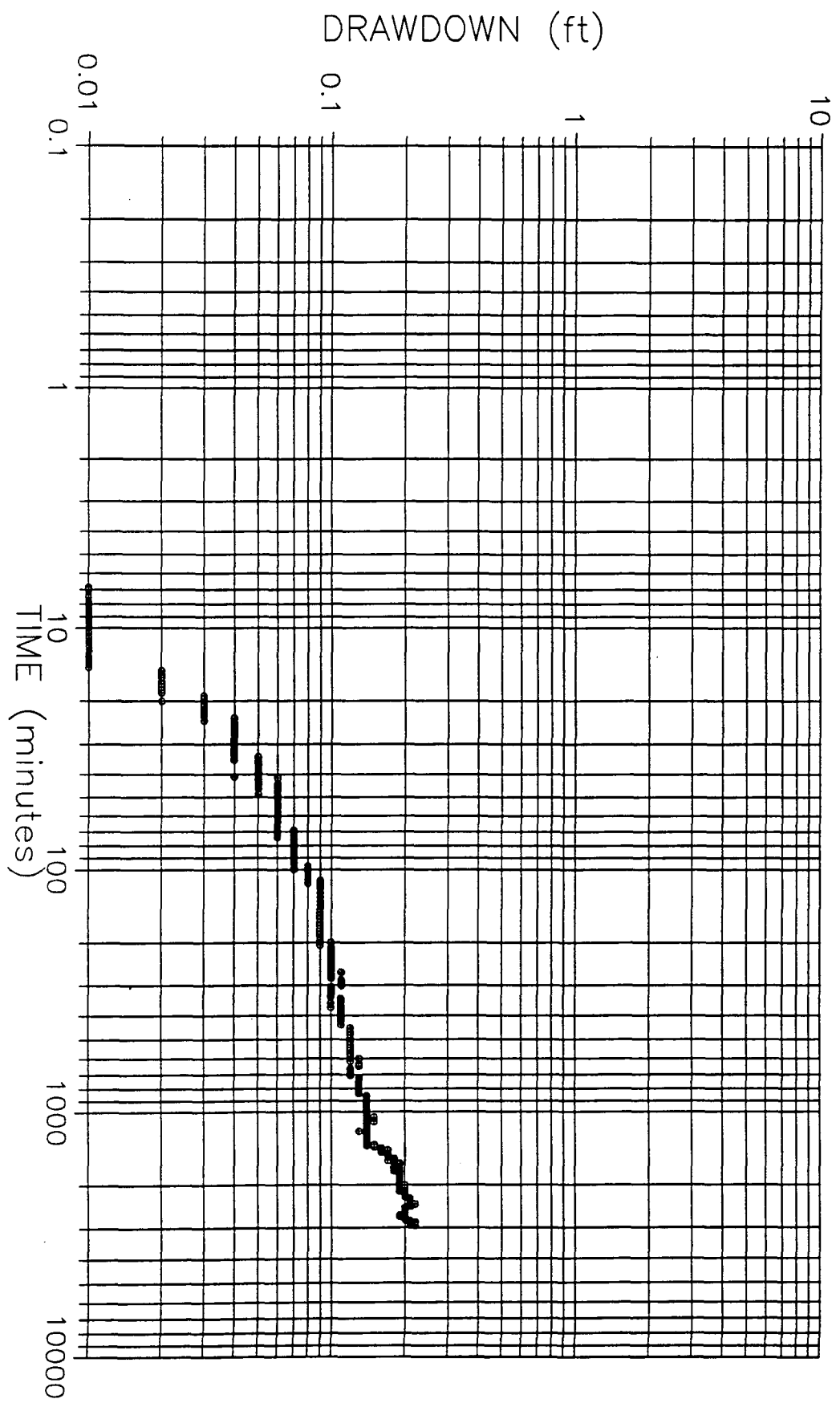


FIGURE B-33

DRAWDOWN VS. DISTANCE FROM PUMPED WELL

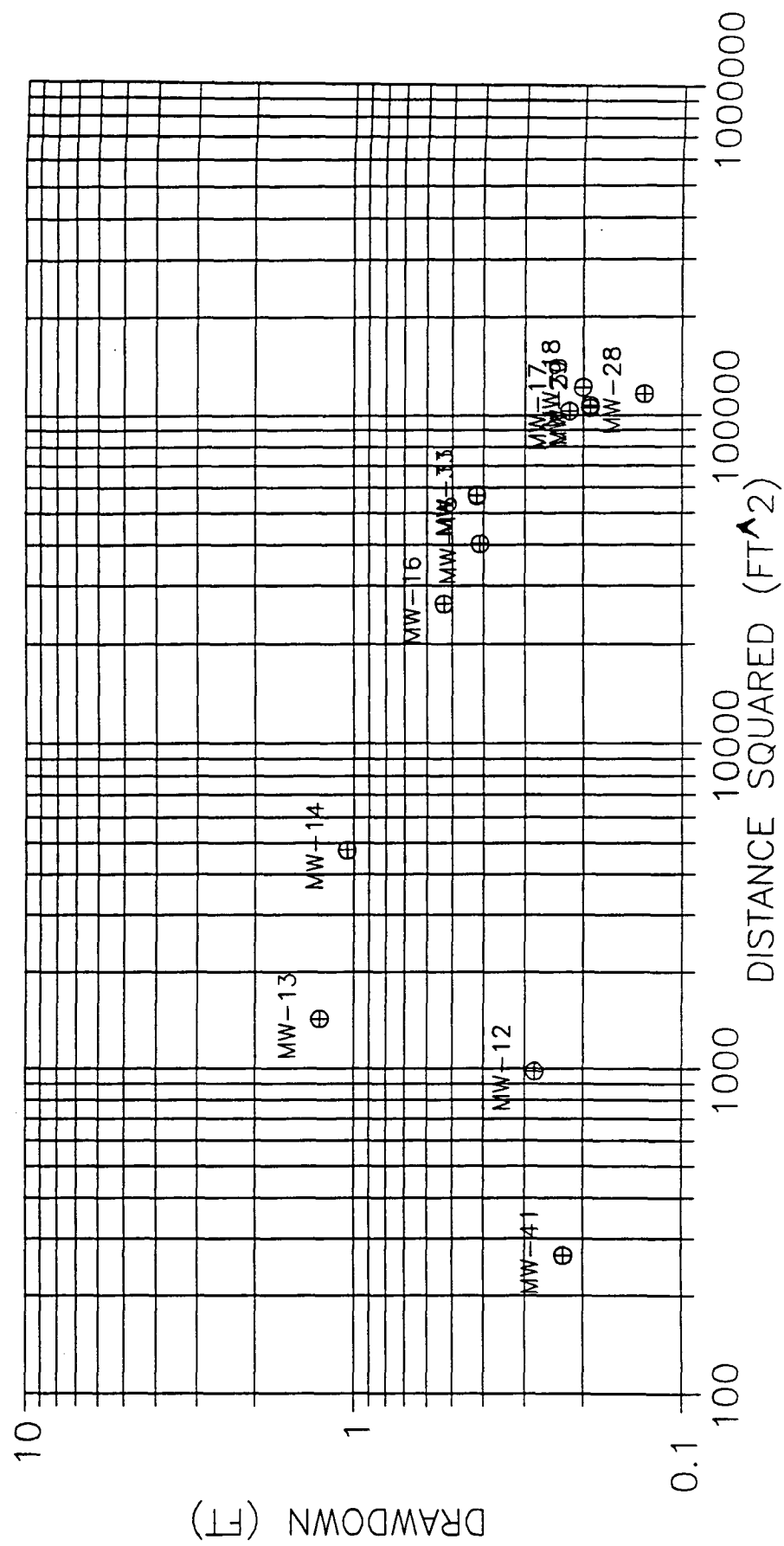


FIGURE B-34

DISTANCE VS. TIME OF FIRST RESPONSE

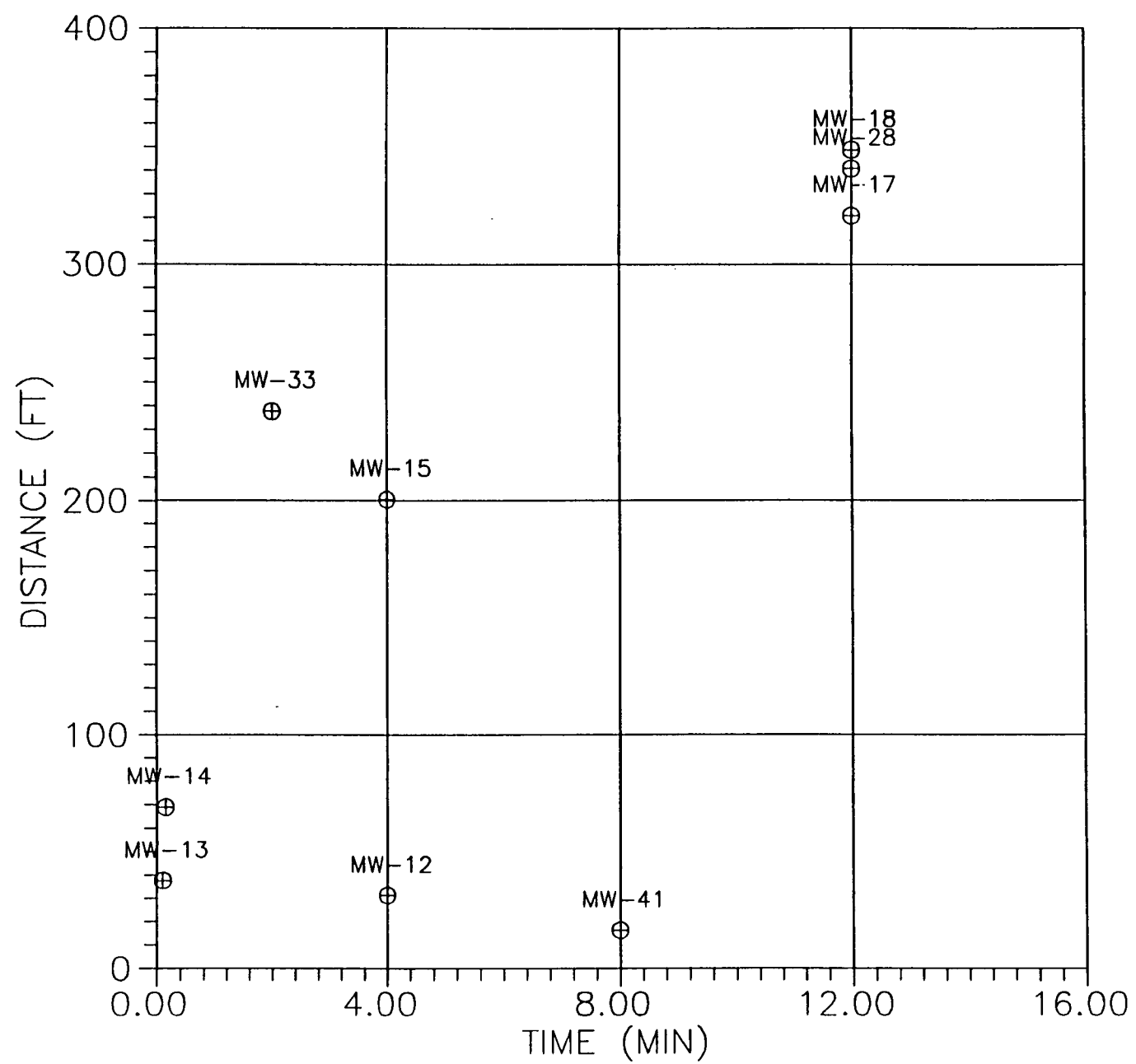


FIGURE B-35

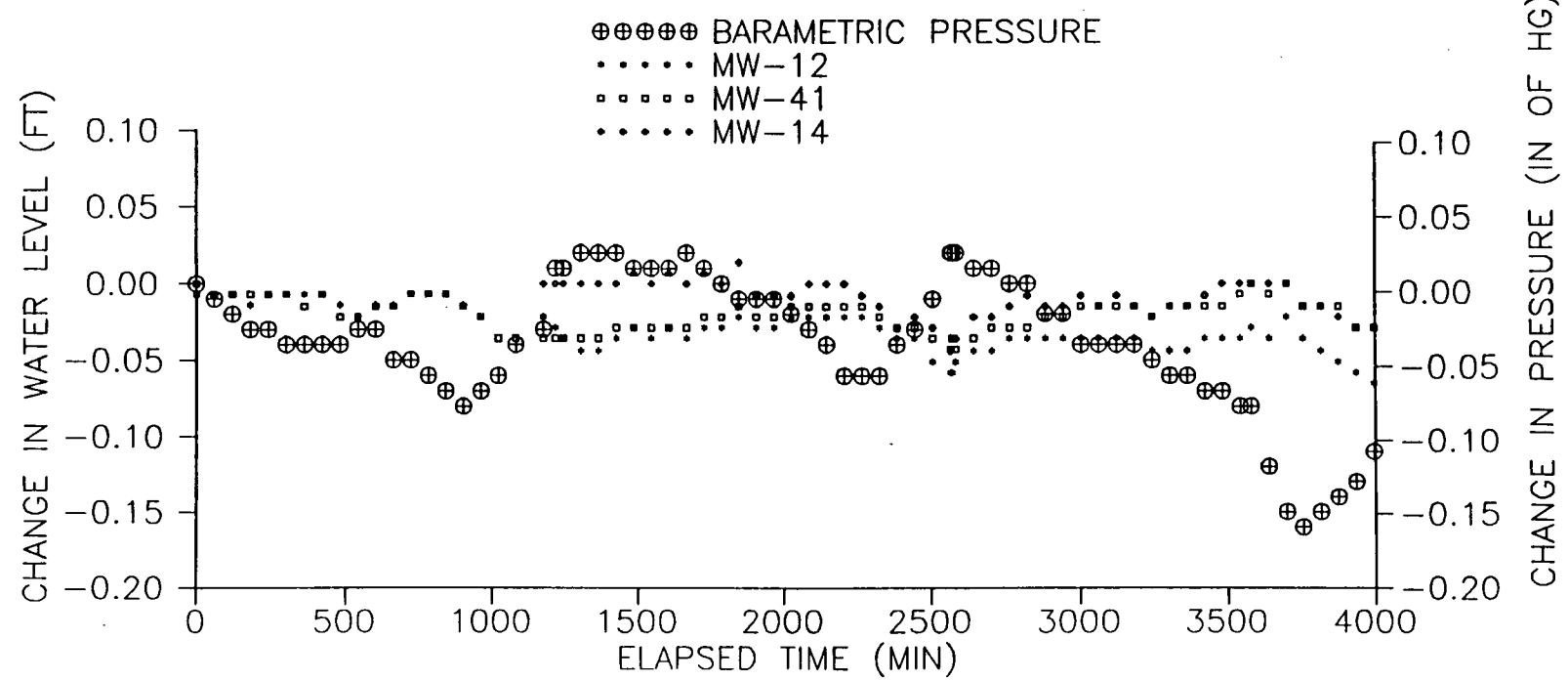


FIGURE B-36

MW-18 Drawdown and Atmospheric Pressure
During Pumping

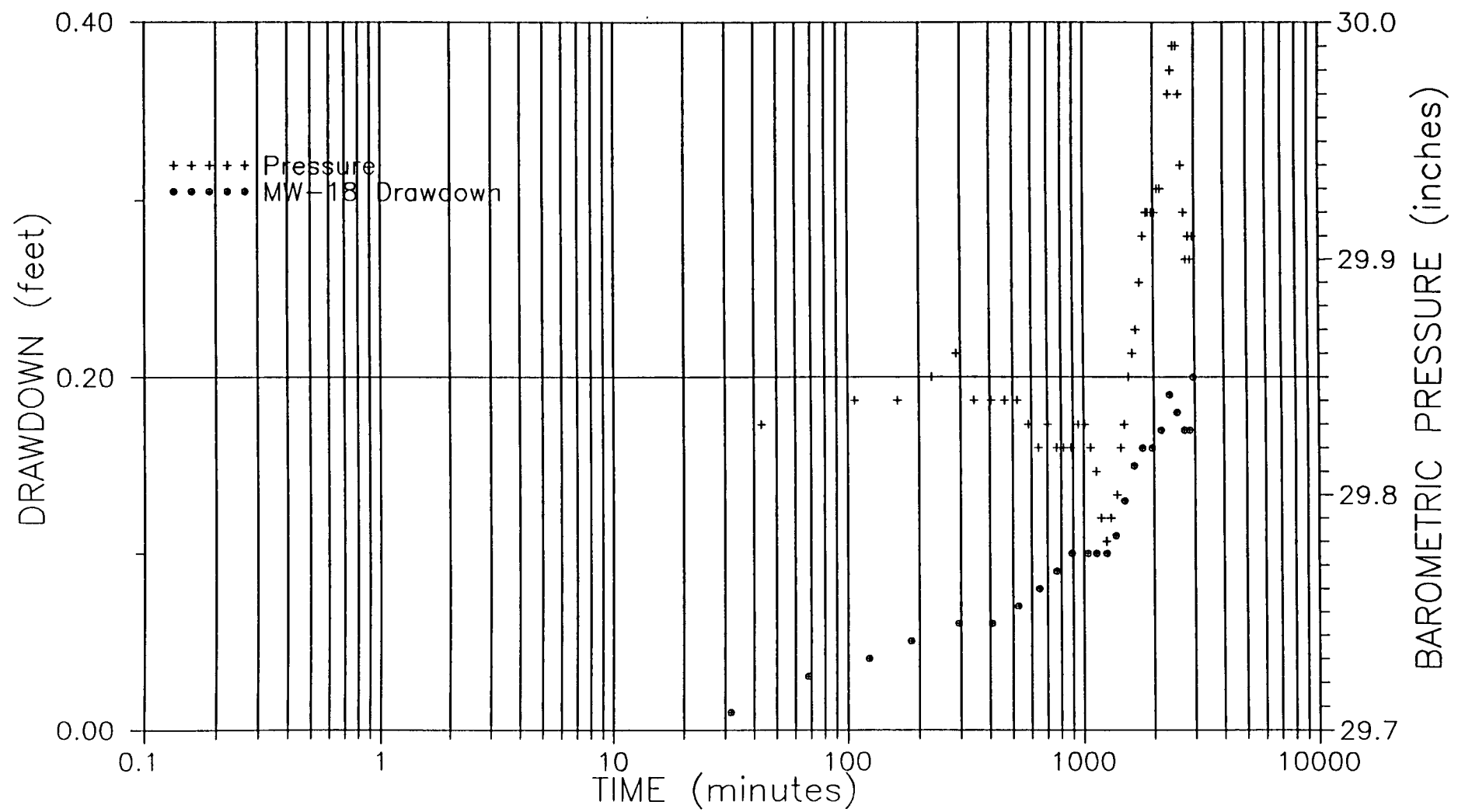


FIGURE B-37

MW-16 HAND DATA
UPRR Sacramento
MW-4 Pump Test

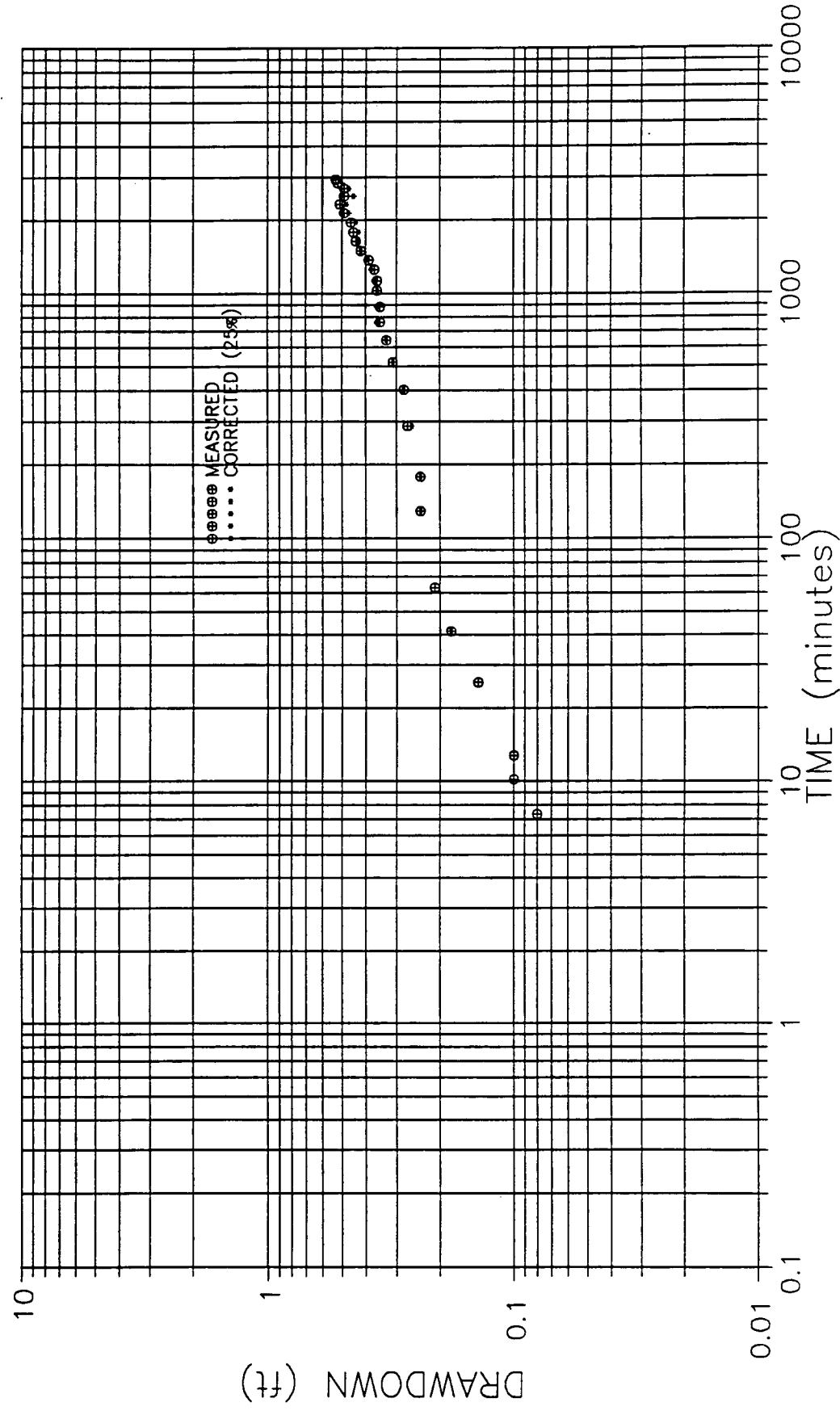


FIGURE B-38

MW-18 HAND DATA
UPRR Sacramento
MW-4 Pump Test

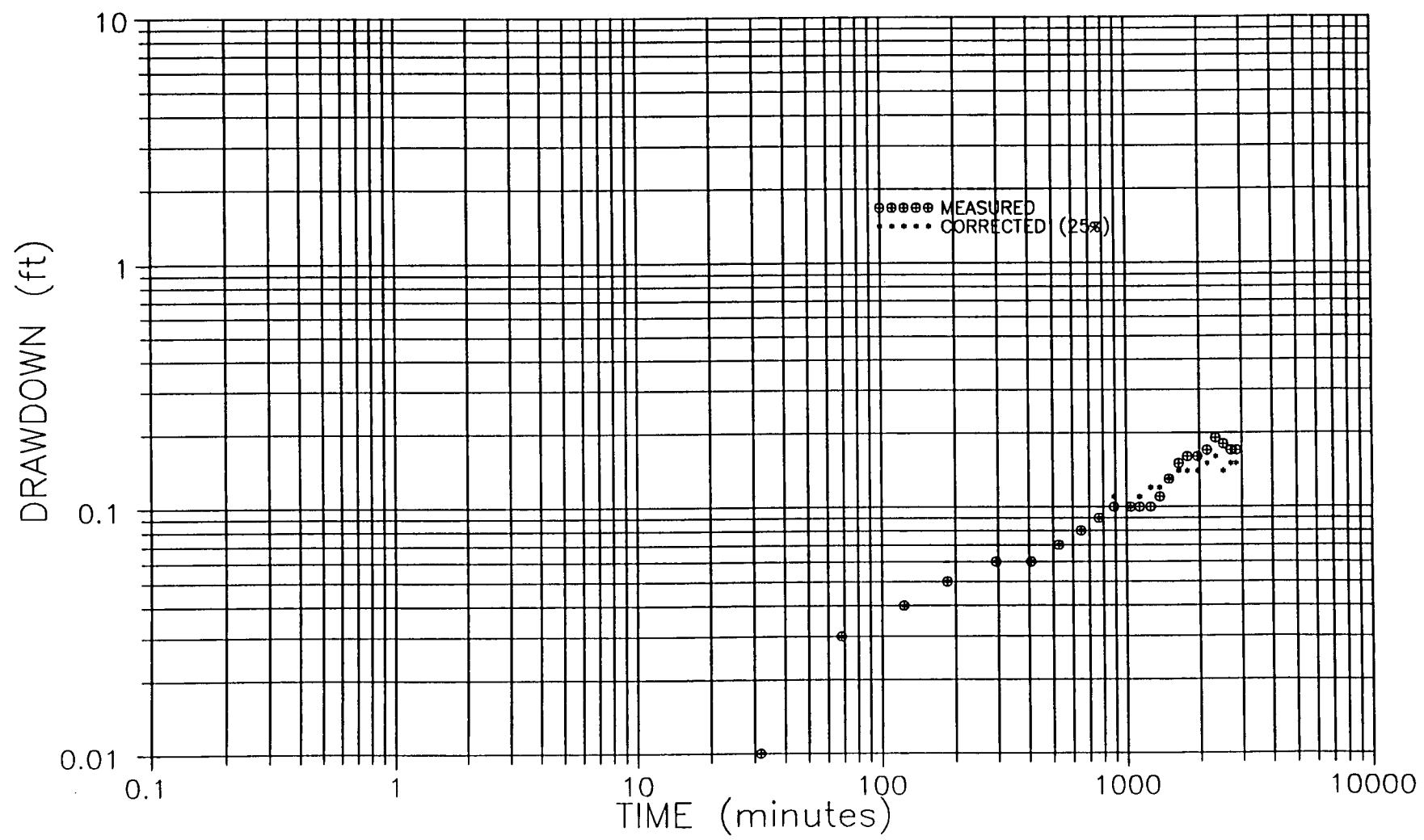


FIGURE B-39

MW-29 HAND DATA
UPRR Sacramento
MW-4 Pump Test

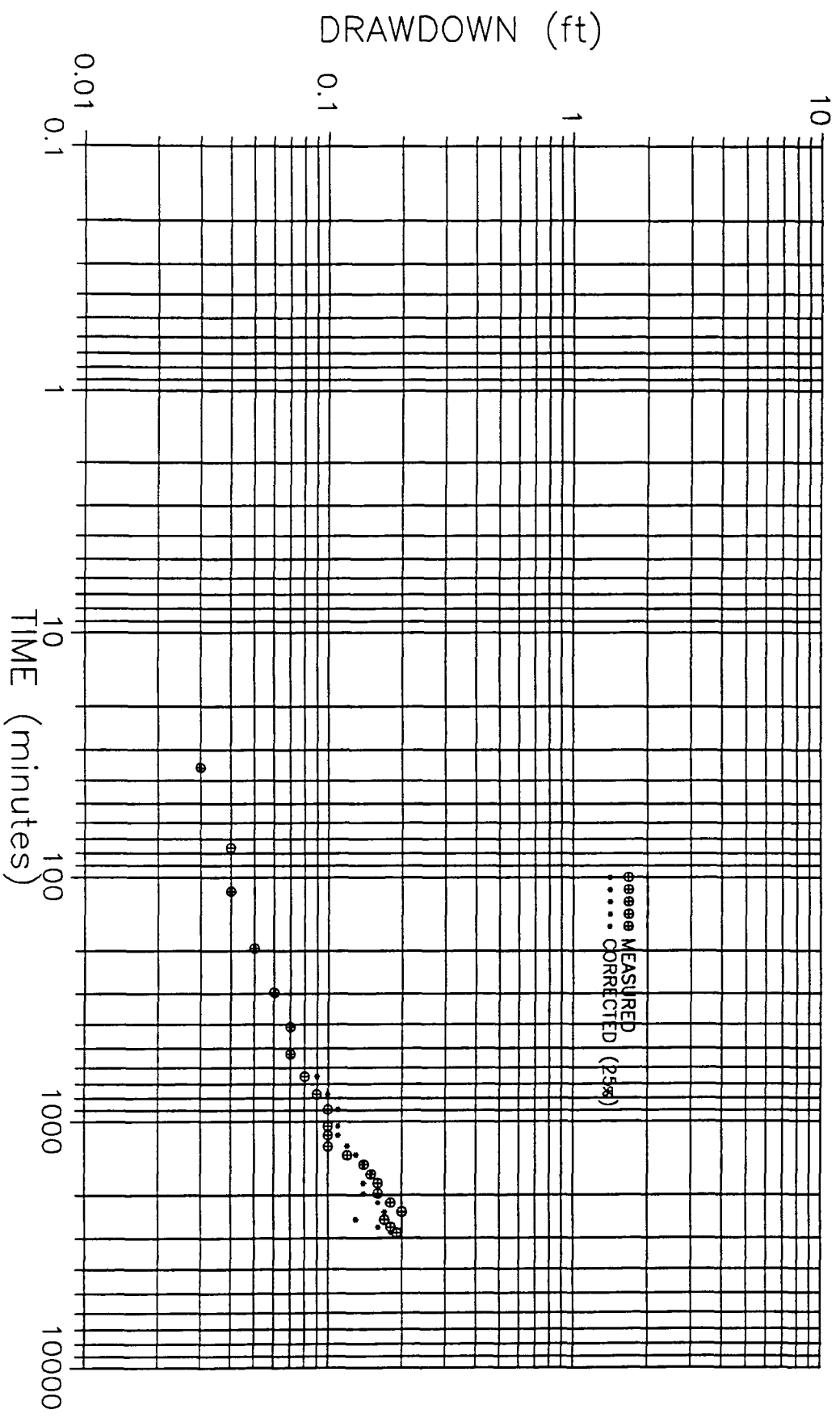


FIGURE B-40

MW-33 HAND DATA
UPRR Sacramento
MW-4 Pump Test

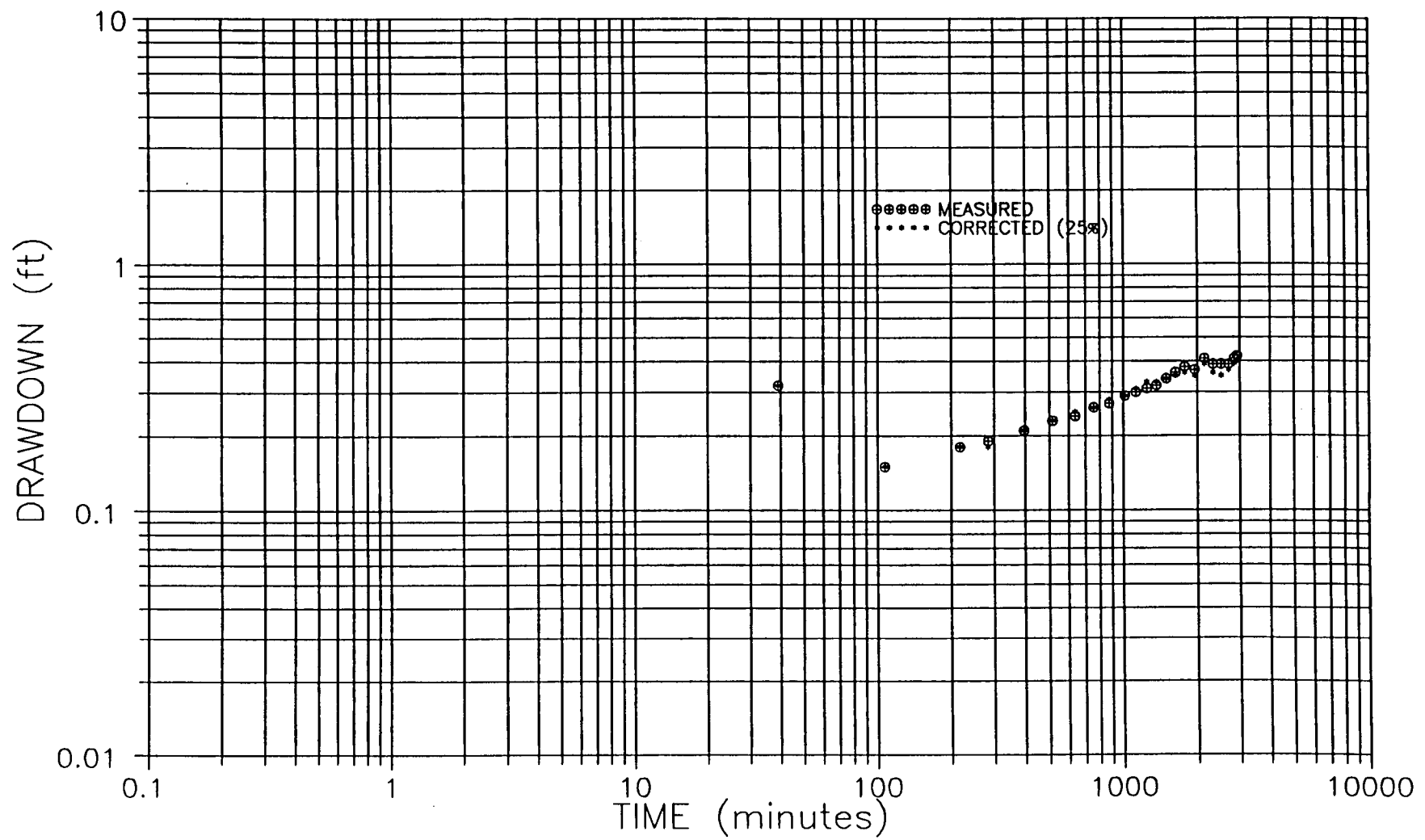


FIGURE B-41

FILE 00173-064-044SUBJECT PUMP TESTSHEET 1 OF 2MW-13 (RICKETT)EARLY MATCH POINT

$$1/u_A = 1$$

$$r/D = 0.3$$

$$W(u_A, r/D) = 1.0$$

$$t = 1.3 \text{ minutes}$$

$$s = 0.26 \text{ feet}$$

GIVEN

$$Q = 60 \text{ gpm}$$

$$= 0.1337 \text{ ft}^3/\text{sec}$$

$$r = 37.7 \text{ ft}$$

$$r^2 = 1421 \text{ feet}^2$$

$$b = 23 \text{ feet}$$

$$T = \frac{Q W(u_A, r/D)}{4\pi s}$$

$$= \frac{(0.1337)(\text{ft}^3/\text{sec})(1)}{4\pi (0.26 \text{ ft})} = 0.041 \text{ ft}^2/\text{sec}$$

$$S = \frac{4u_A T t}{r^2} = \frac{(4)(1)(0.041 \text{ ft}^2/\text{sec})(1.3 \text{ min})}{1421 \text{ ft}^2} \times \frac{60 \text{ sec}}{\text{min}}$$

$$= 0.009$$

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FILE 00173-064-044SUBJECT IP Pump TESTSHEET 2 OF 4MW-13 (cont)LATE MATCH POINT

$$y/u_y = 100$$

$$W(u_{ay}, r/D) = 1$$

$$s = 0.25 \text{ feet}$$

$$t = 1150 \text{ min.}$$

$$T = \frac{Q W(u_{ay}, r/D)}{4 \pi S}$$

$$= \frac{(0.1337 \text{ ft}^3/\text{sec})(1)}{4(\pi)(0.26 \text{ ft})} = 0.041 \text{ ft}^2/\text{sec}$$

$$S_u^2 = \frac{4 u_y T t}{r^2} = \frac{(4)(0.01)(0.041 \text{ ft}^2/\text{sec})(1150 \text{ min})}{1421 \text{ ft}^2} \times 60 \frac{\text{sec}}{\text{min}}$$

$$= 0.08$$

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MW-13 (cont)

DELAY INDEX

$$\alpha = \frac{(r/D)^2 / u_y}{4t} = \frac{(0.3)^2 (100)}{4(1150 \text{ min})}$$

$$= 0.0196 \text{ min}^{-1}$$

$$1/\alpha = 511 \text{ min}$$

ANISOTROPY (K_{VERT} vs K_{HORIZ})

Given

$$\frac{D}{T} = \frac{r^2 K_v}{b^2 K_h} \Rightarrow K_v = \frac{(r/D) K_h b^2}{r^2}$$

$$K_h = T/b = \frac{0.041 \text{ ft}^2/\text{sec}}{23 \text{ ft}} = 0.0018 \text{ ft}/\text{sec}$$

$$K_v = \frac{(0.3)(0.0018 \text{ ft}/\text{sec})(23 \text{ ft}^2)}{1421 \text{ ft}^2} = 0.0002 \text{ ft}/\text{sec}$$

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SUMMARY MW-13

$$T = 0.041 \text{ ft}^2/\text{sec}$$

$$K = T/b = \frac{0.041 \text{ ft}^2/\text{sec}}{23 \text{ ft}} = 0.0018 \text{ ft}/\text{sec}$$

$$= 0.0018 \text{ ft}/\text{sec} \times 12 \text{ in}/\text{ft} \times 2.54 \text{ cm}/\text{in}$$

$$= 0.055 \text{ cm}/\text{sec}$$

$$S_y = 0.08$$

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MW-18 (THEIS TYPE CURVE)

GIVEN

$$Q = 60 \text{ gpm} = 0.1337 \text{ ft}^3/\text{sec}$$

$$60 \frac{\text{gal}}{\text{min}} \times \frac{1}{7.48} \frac{\text{ft}^3}{\text{gal}} \times \frac{1}{60} \frac{\text{min}}{\text{sec}} = 0.1337 \frac{\text{ft}^3}{\text{sec}}$$

$$r = \text{distance from pumped well} = 348.6 \text{ ft}$$

$$r^2 = (348.6)^2 = 121554 \text{ ft}^2$$

$$b = \text{aquifer thickness} = 23 \text{ ft.}$$

MATCH POINT (using data > 900 minutes)

$$W(u) = 1$$

$$u = 1$$

$$s = 0.09 \text{ ft}$$

$$t = 190 \text{ min}$$

$$T = \frac{Q (W(u))}{4 \pi s} = \frac{(0.1337)(1)}{(4 \pi)(0.09)} = 0.118 \text{ ft}^2/\text{sec}$$

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$$K = T/b = \frac{0.118 \text{ ft}^2/\text{sec}}{23} = 0.0051 \text{ ft}/\text{sec}$$

$$= 0.0051 \frac{\text{ft}}{\text{sec}} \times \frac{12 \text{ in}}{\text{ft}} \times \frac{2.54 \text{ cm}}{\text{in}}$$

$$\approx 0.16 \text{ cm}/\text{sec}$$

$$S = \frac{4uTt}{r^2} = \frac{(4)(1)(0.118 \text{ ft}^2/\text{sec})(190 \text{ mm}) \times 60 \frac{\text{sec}}{\text{min}}}{121554 \text{ ft}^2}$$

$$\approx 0.044$$

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THEIM EQUATION

USING MW-14 and MW-17

Given

$$Q = 60 \text{ gpm} = 0.1337 \text{ ft}^3/\text{sec}$$

$$h_2 = \text{height of aquifer at MW-17} = 23' - 0.22' = 22.78 \text{ f}$$

$$h_1 = \text{" " " " at MW-14} = 23' - 1.05' = 21.95 \text{ f}$$

$$r_2 = 321 \text{ ft} = \text{distance from pumped well to MW-17}$$

$$r_1 = 69 \text{ ft} = \text{distance from pumped well to MW-14}$$

$$K = \frac{Q \ln(r_2/r_1)}{2\pi (h_2 - h_1)(h_2 + h_1)/2}$$

$$= \frac{(0.1337 \text{ ft}^3/\text{sec}) (\ln(\frac{321}{69}))}{2\pi (22.78 - 21.95)(22.78 + 21.95)/2}$$

$$= \frac{0.2055 \text{ ft}^3/\text{sec}}{2\pi (0.83 \text{ ft})(22.365 \text{ ft})} = 0.00176 \text{ ft}/\text{sec}$$

$$= \boxed{0.054 \text{ cm}/\text{sec}}$$

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