

**KERR-McGEE CORPORATION**



**SEMI-ANNUAL PERFORMANCE REPORT  
CHROMIUM MITIGATION PROGRAM  
KERR-McGEE CHEMICAL CORPORATION  
HENDERSON, NEVADA**

**JANUARY - JUNE 1995**

**July 28, 1995**



**KERR-McGEE CHEMICAL CORPORATION**

POST OFFICE BOX 55 • HENDERSON, NEVADA 89009

July 24, 1995

Mr. Allen Biaggi  
State of Nevada  
Division of Environmental Protection  
333 West Nye Lane  
Carson City, Nevada 89710

Dear Mr. Biaggi:


Subject: First Half 1995 Performance Report  
Chromium Mitigation Program

Enclosed are two copies of the First Half 1995 Semi-Annual Chromium Mitigation Program for the Kerr-McGee Chemical Corporation, Henderson facility.

This report presents groundwater monitoring and treatment results along with information regarding the upgrading of the groundwater treatment plant and recharge trenches.

If you have questions or comments concerning this information, please contact Susan M. Crowley at (702) 651-2234.

Sincerely,

  
Fredrick R. Stater  
Operations Manager

FRS:j

cc: PSCorbett  
SMCrowley  
WJGanus  
RANapier  
TWReed

**SEMI-ANNUAL PERFORMANCE REPORT  
CHROMIUM MITIGATION PROGRAM  
KERR-McGEE CHEMICAL CORPORATION  
HENDERSON, NEVADA**

**JANUARY - JUNE 1995**

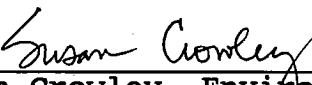
Submitted in Accordance with:

**Chromium Mitigation Program  
Consent Order  
September 9, 1986**

Prepared by:

**Thomas W. Reed  
Hydrology Department  
Kerr-McGee Corporation**

**July 28, 1995**

  
\_\_\_\_\_  
**Susan Crowley, Environmental Engineer  
Kerr-McGee Chemical Corporation  
Henderson, Nevada**

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SEMI-ANNUAL PERFORMANCE REPORT  
CHROMIUM MITIGATION PROGRAM  
KERR-McGEE CHEMICAL CORPORATION  
HENDERSON, NEVADA

## INTRODUCTION

In accordance with the Consent Order for cleanup of chromium contaminated groundwater at the Henderson facility, finalized September 9, 1986, Kerr-McGee Chemical Corporation (KMCC) submits this semi-annual performance report to the Nevada Department of Environmental Protection. This report, covering the period January through June, 1995, summarizes performance data for the groundwater treatment plant and evaluates the effectiveness of the groundwater interception and treatment system installed to carry out the chromium mitigation program.

## GROUNDWATER SURFACE CONFIGURATION

Figure 1 illustrates the Consent Order Monitoring Area as defined in Appendix D of the Consent Order, and shows the locations of all groundwater interceptor and monitor wells installed by KMCC within this area. Appendix A of this report lists monthly groundwater elevations recorded since September 1992 in wells within the Consent Order area. The water table configuration is presented in two formats, potentiometric surface maps and cross-sections for the first half of 1995, reflecting quarterly groundwater level measurements.

Figure 2 shows the potentiometric surface within the consent order monitoring area for the first quarter of 1995. Groundwater elevation data was recorded on March 22, 1995. Figure 3 presents a cross-section of the groundwater interceptor line for the same date. Figures 4 and 5 present the same type map and cross-section for the second quarter of 1995, based on groundwater elevation data recorded on June 29, 1995. The static water level shown on the cross-sections represents the Consent Order reference groundwater elevation, established September 14, 1987, prior to startup of the interception system. Groundwater elevations continue to confirm that water levels in the Consent Order monitoring area have stabilized since the discharge of cooling water to the beta ditch was discontinued in November, 1987.

## CONTINUOUS WATER LEVEL RECORDERS

Wells M-78 and M-80 (Figure 1) are equipped with continuous water level recorders. Appendix B contains copies of the recorder charts generated during the first half of 1995. The charts for M-80 demonstrate gradually increasing water levels in the vicinity of the recharge trench area. These increasing water levels demonstrate the proper functioning of the recharge trenches following reconstruction of the trench system.

## INTERCEPTOR SYSTEM PERFORMANCE

Figures 2 through 5 show the potentiometric surface configuration in the interceptor area during the first half of 1995. Cross-sections show that drawdown consistently exceeded the one foot below reference water level criterion across the entire interceptor well line.

Although the potentiometric surface maps (Figures 2 and 4) do not generally appear to show overlapping drawdown cones along the entire interceptor line, the cross-sections show the majority of interceptor wells are drawn down to the Muddy Creek Clay. Drawdowns to this degree indicate that the alluvial aquifer is locally being depleted of water and that interception of groundwater has been maximized with this recovery system.

Unrelated to the interception program, groundwater levels have declined across the area due to the discontinuation of upgradient water infiltration from the Beta Ditch. Since 1987, the Beta Ditch has been utilized almost exclusively for stormwater flow.

In May, 1990, KMCC began monthly analysis for chromium in several other wells located both upgradient and downgradient from the recharge trench. The data is shown in Table 1, and is presented graphically as Figures 6 and 7. The M-70 series wells presented in Figure 6 are located upgradient from the recharge trench. The M-80 series wells presented in Figure 7 are located downgradient from

the recharge trench. Both the M-70 series wells and the M-80 series wells exhibit a leveling off or decline in chromium concentrations during the first half of 1995. These changes are the result of increased efficiency of the groundwater recovery system and more effective recharge of treated groundwater through the renovated recharge trench system.

Chromium concentrations in the five Consent Order Appendix J wells (see Figure 8) are displayed in Table 3. Figure 9 presents this data graphically. Well M-11 chromium data will resume on a monthly basis in July, 1995. The well was bridged by pump and tubing equipment which has been successfully removed.

KMCC instituted a management program to assure maximization of groundwater removal at the individual well locations along the interceptor line by focusing on those wells showing the highest chromium concentrations. Figure 10 portrays chromium concentration for each interceptor well for the past year. Discharge rates for each well are monitored closely and adjusted to provide maximum recovery of chromium based on the potentiometric surface configuration, chromium concentration, and well production capability. Table 2 lists the pumping rate of each interceptor well for the months of December, 1990 through 1994, as compared to June, 1995. The addition of the four new recovery wells has increased total groundwater recovery to pre-1990 volumes.

## IMPACT OF DISPOSAL SYSTEM ON DOWNGRAIDENT WATER LEVELS

The Disposal Contingency Plan (Appendix J) of the Consent Order identifies specific monitor wells that are to be utilized to evaluate any water level impact from recharge of treated water into the alluvium. Fifteen wells are monitored monthly for groundwater levels. Figure 8 shows the location of these wells. Data presented in Appendix A show that groundwater elevations have stabilized in that portion of the facility downgradient from the recharge system (evidenced by wells M-47, M-23, and M-49), and are lower than in January, 1988.

## CHROMIUM TREATMENT SYSTEM EFFECTIVENESS

The Consent Order specifies the following effluent concentration limits for the treatment plant discharge water:

### Monthly average

Total Chromium	1.7 mg/l
Hexavalent Chromium	0.05 mg/l

### Maximum single value on a composite sample

Total Chromium	3.4 mg/l
Hexavalent Chromium	0.1 mg/l

Table 4 updates the treatment plant feed and discharge chromium concentration data with data for the first half of 1995. Total Chromium and Hexavalent Chromium values for the first half of 1995 did not exceed either the monthly permissible average or the maximum composite sample value.

## RECOVERY/TREATMENT SYSTEM MAINTENANCE

Approximately every twenty days, the electrodes in the treatment plant's electrolytic cells deteriorate to the point they require replacement. During cell replacement, a backup cell is placed in active service in the circuit to maintain groundwater treatment.

Engine hour meters are being used to determine the average number of hours per day individual pumps are running. Six of the interceptor wells utilize a time-marking device that shuts the pump off for a pre-determined amount of time if the well runs dry. If a pump spends a significant amount of time shut down, overall recovery can be increased by decreasing the pump rate, allowing a smaller discharge to occur a greater percentage of the time. Well discharge rates are adjusted periodically, as engine hour meters show either continuous pumping or a low percentage of pumping time.

All interceptor wells are checked for operation each day; flow rates are recorded for each well twice weekly. Flowmeter readings (total volume) are recorded for each time-marking well twice weekly. These records indicate when a pump needs to be replaced or a flow rate adjusted. In addition, other maintenance associated with maintaining treatment plant operations was performed.

## CONCLUSIONS

Discharge chromium concentrations for the treatment facility are below established requirements. No adverse impacts to downgradient groundwater levels have been observed as a result of returning treated groundwater to the near-surface aquifer via the recharge galleries. Chromium concentrations in monitor wells immediately downgradient from the recharge trenches have stabilized or declined indicating that the recharge system is functioning properly. Chromium concentrations in monitor wells immediately downgradient from the groundwater interception wells have also declined or stabilized in response to more efficient capture of the groundwater chromium plume.

## PROPOSED FUTURE ACTIVITIES

KMCC will continue to record water levels in the consent order area on a quarterly basis. Quarterly potentiometric surface maps and cross-sections will be developed. The effect of changing the pumping rates of the interceptor wells will be monitored, and appropriate responses (i.e.- future pump rate adjustments) will be taken to assure optimal drawdown and plume interception.

**FIGURES**

1. 

2. 

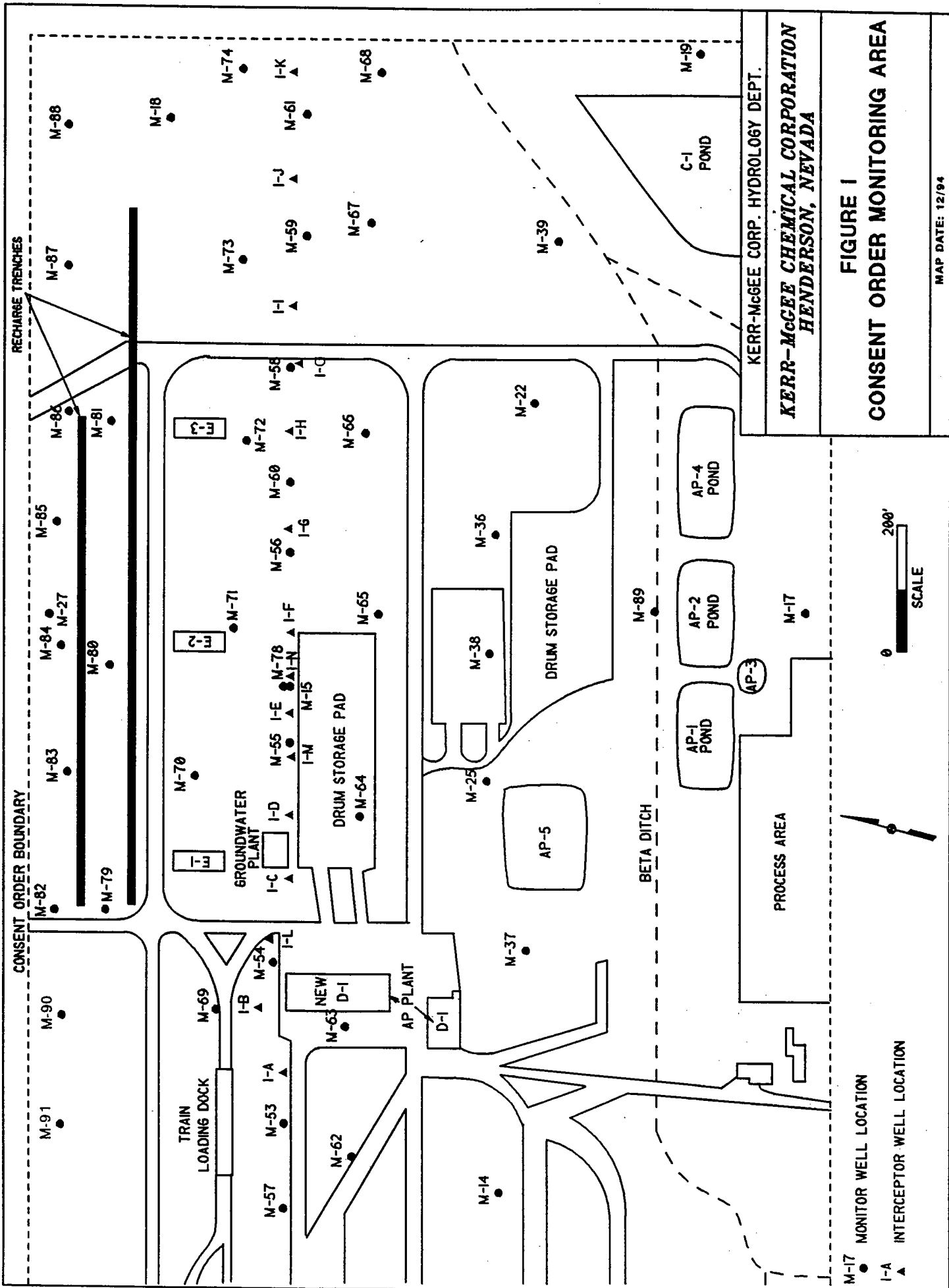
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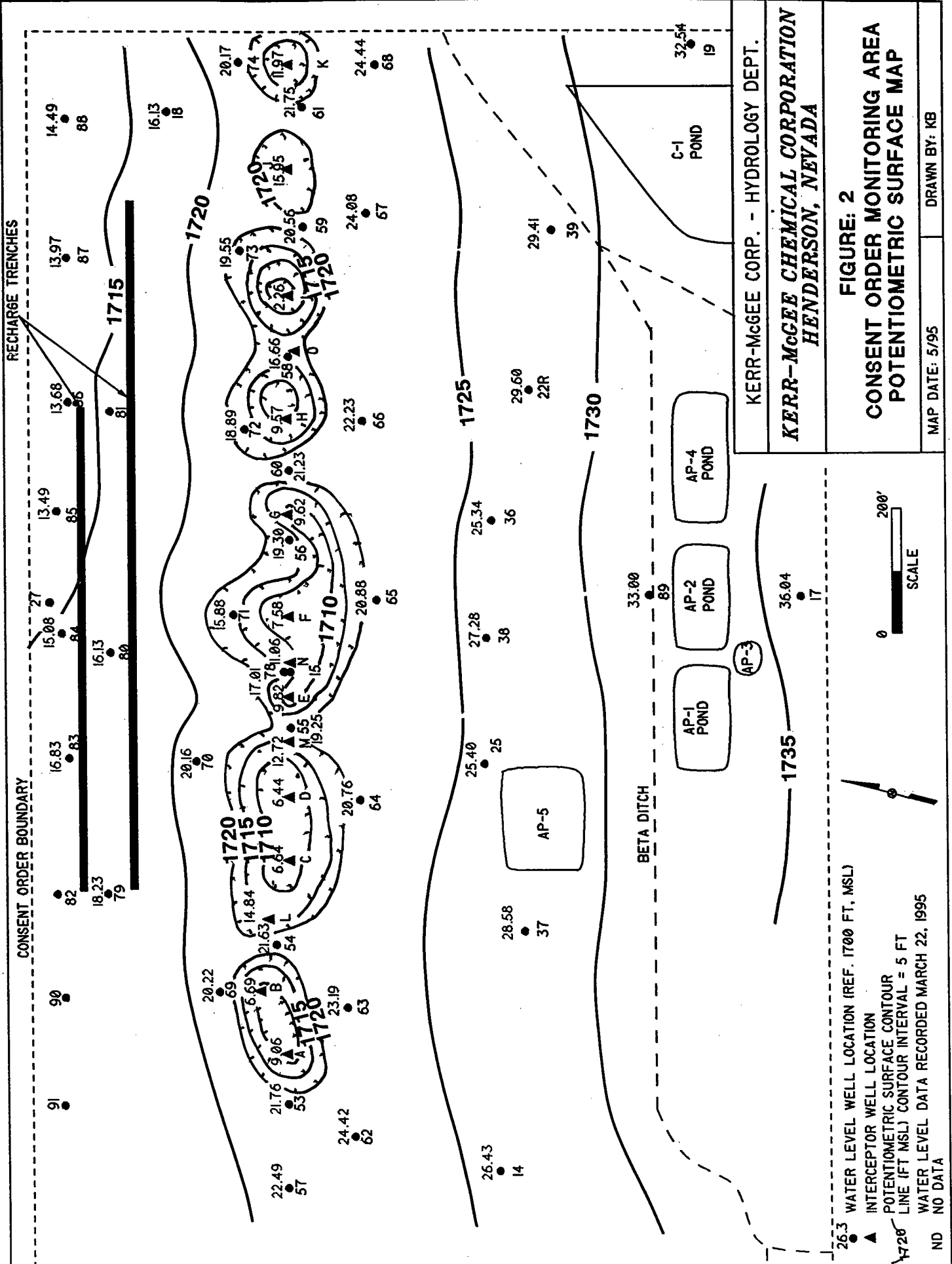
4. 

5. 

6. 

7. 



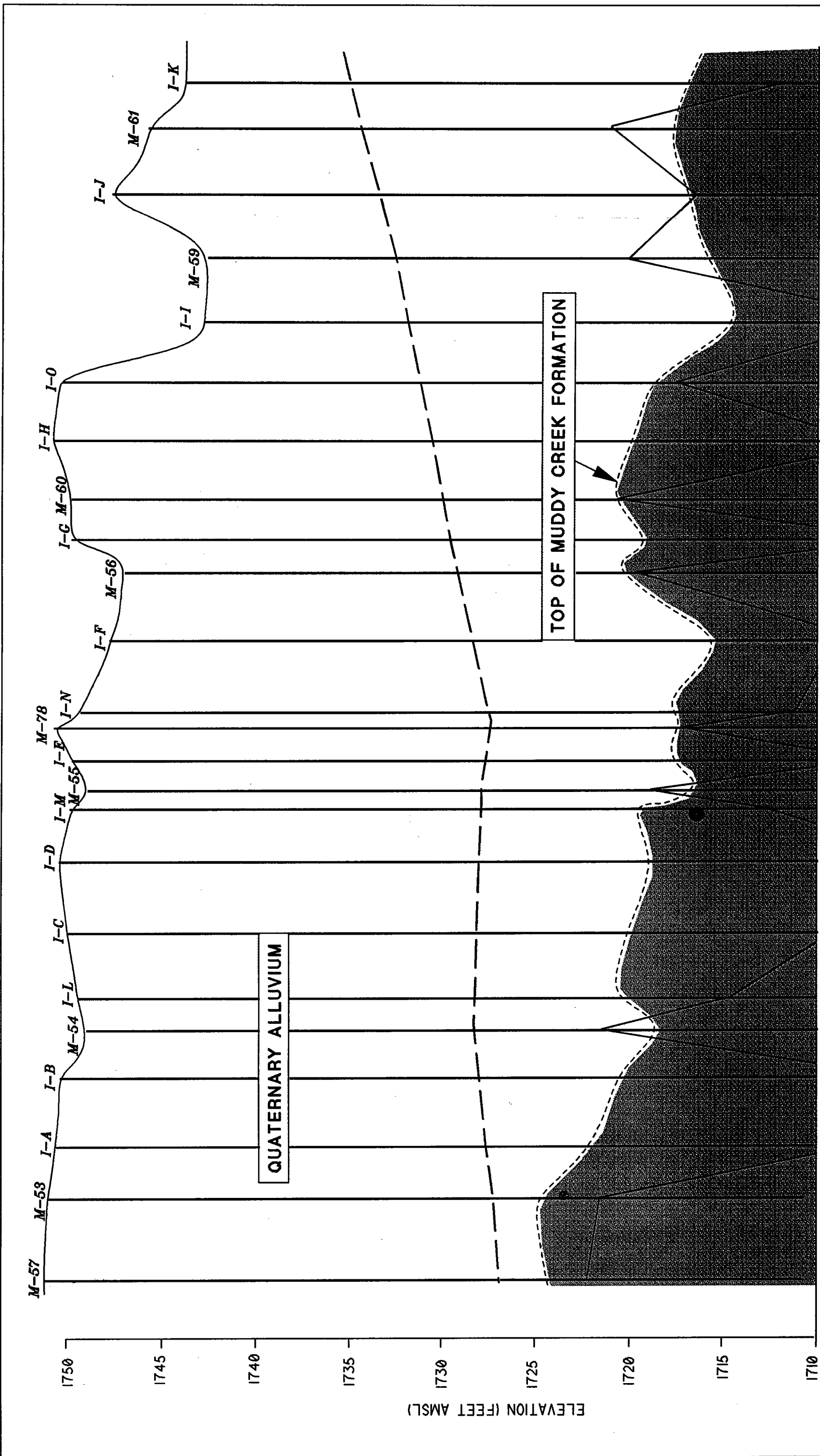


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**KERR-McGEE CHEMICAL CORPORATION**  
**HENDERSON, NEVADA**

**FIGURE: 2**  
**CONSENT ORDER MONITORING AREA**  
**POTENTIOMETRIC SURFACE MAP**

MAP DATE: 5/95  
 DRAWN BY: KB

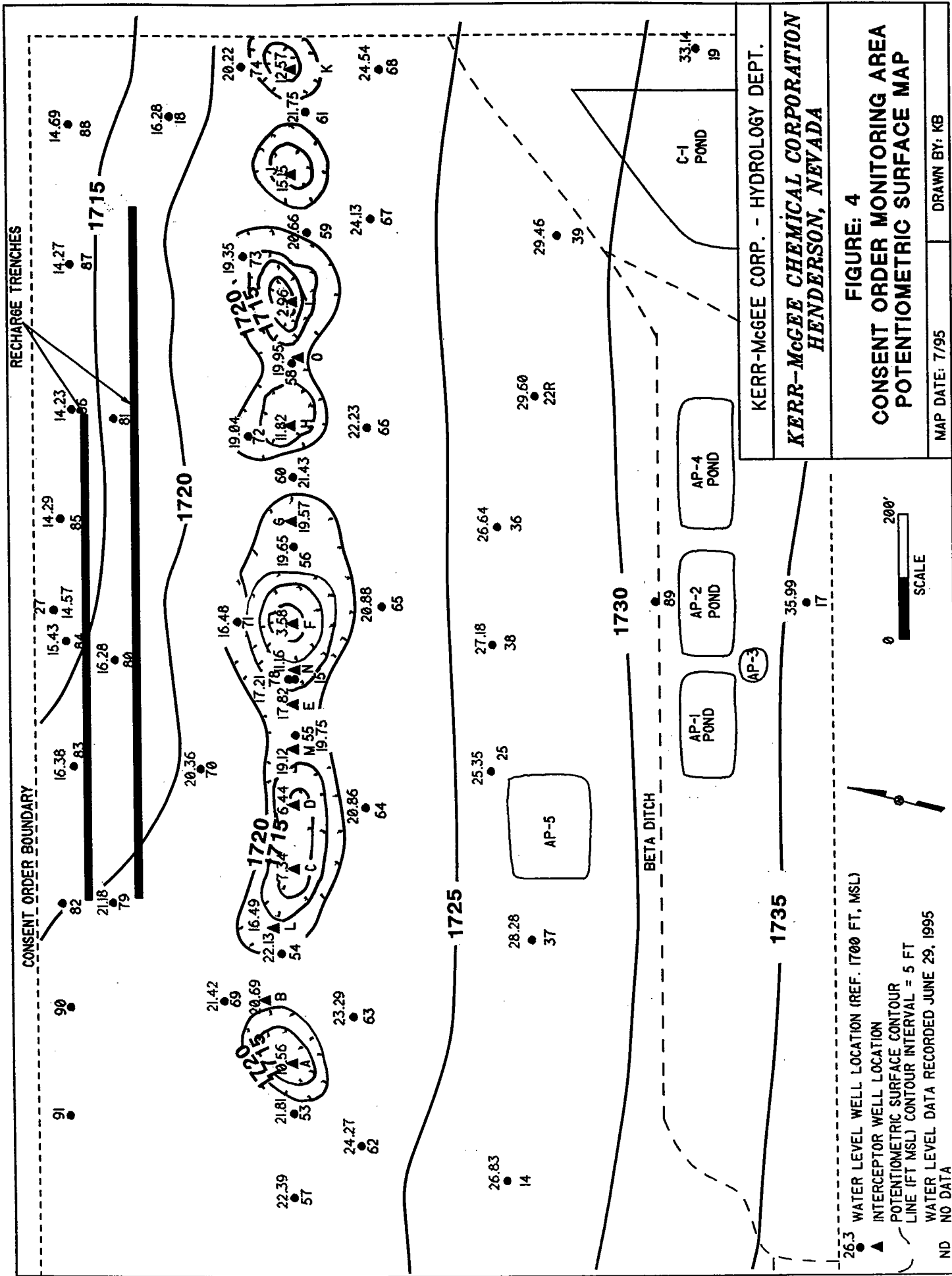
26.3 WATER LEVEL WELL LOCATION (REF. 1700 FT. MSL)  
 ▲ INTERCEPTOR WELL LOCATION  
 POTENTIOMETRIC SURFACE CONTOUR  
 LINE (FT MSL) CONTOUR INTERVAL = 5 FT  
 WATER LEVEL DATA RECORDED MARCH 22, 1995  
 ND NO DATA



**FIGURE 3:  
GROUNDWATER INTERCEPTOR  
CROSS-SECTION - 3-22-95**

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MAP DATE: 5/95      DRAWN BY: KB

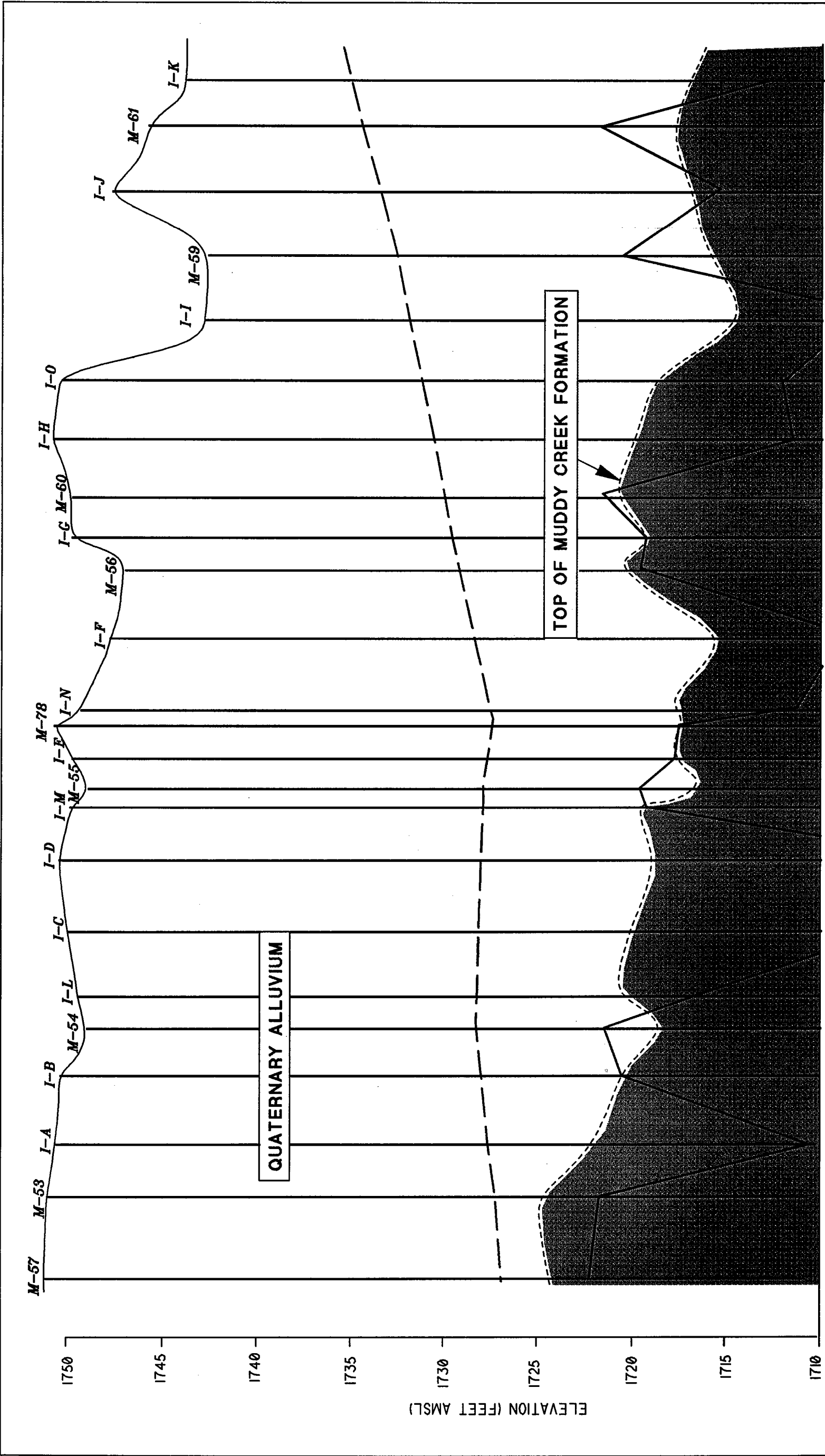


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**FIGURE: 4**  
**CONSENT ORDER MONITORING AREA**  
**POTENTIOMETRIC SURFACE MAP**

MAP DATE: 7/95  
 DRAWN BY: KB

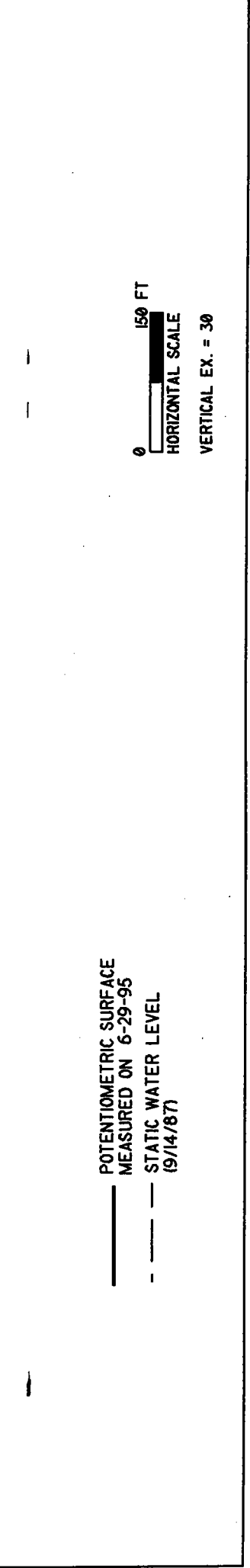
26.3 WATER LEVEL WELL LOCATION (REF. 1700 FT, MSL)  
 ▲ INTERCEPTOR WELL LOCATION  
 --- POTENTIOMETRIC SURFACE CONTOUR  
 LINE (FT MSL) CONTOUR INTERVAL = 5 FT  
 WATER LEVEL DATA RECORDED JUNE 29, 1995  
 ND NO DATA



**FIGURE 5:  
GROUNDWATER INTERCEPTOR  
CROSS-SECTION - 6-29-95**

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**KERR-McGEE CHEMICAL CORPORATION**  
 HENDERSON, NEVADA

MAP DATE: 7/95 | DRAWN BY: KB



**FIGURE 6: UPGRADIENT MONITOR WELLS**  
 KMCC HENDERSON, NEVADA FACILITY

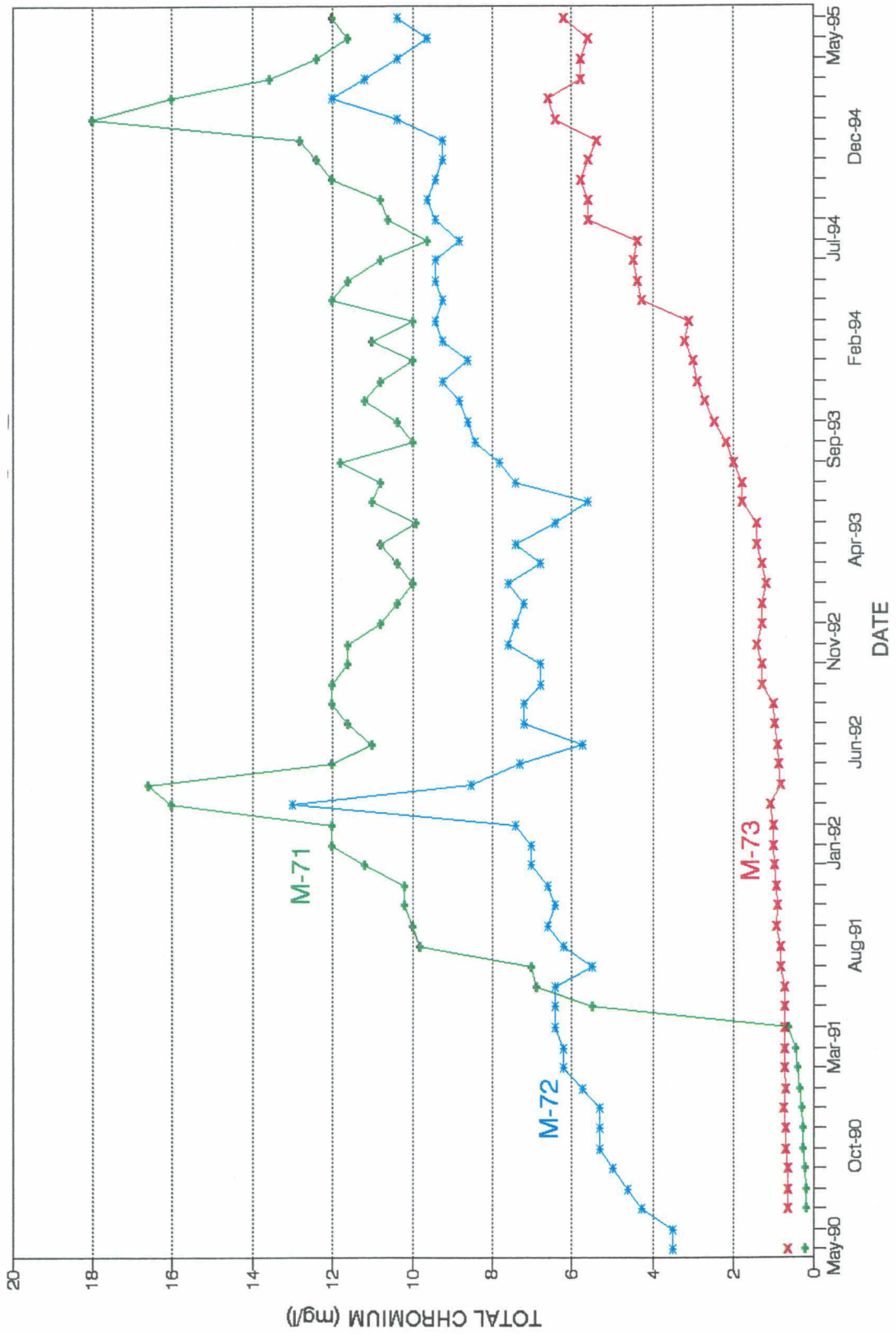


FIGURE 7: DOWNGRADIENT MONITOR WELLS  
KMCC HENDERSON, NEVADA FACILITY

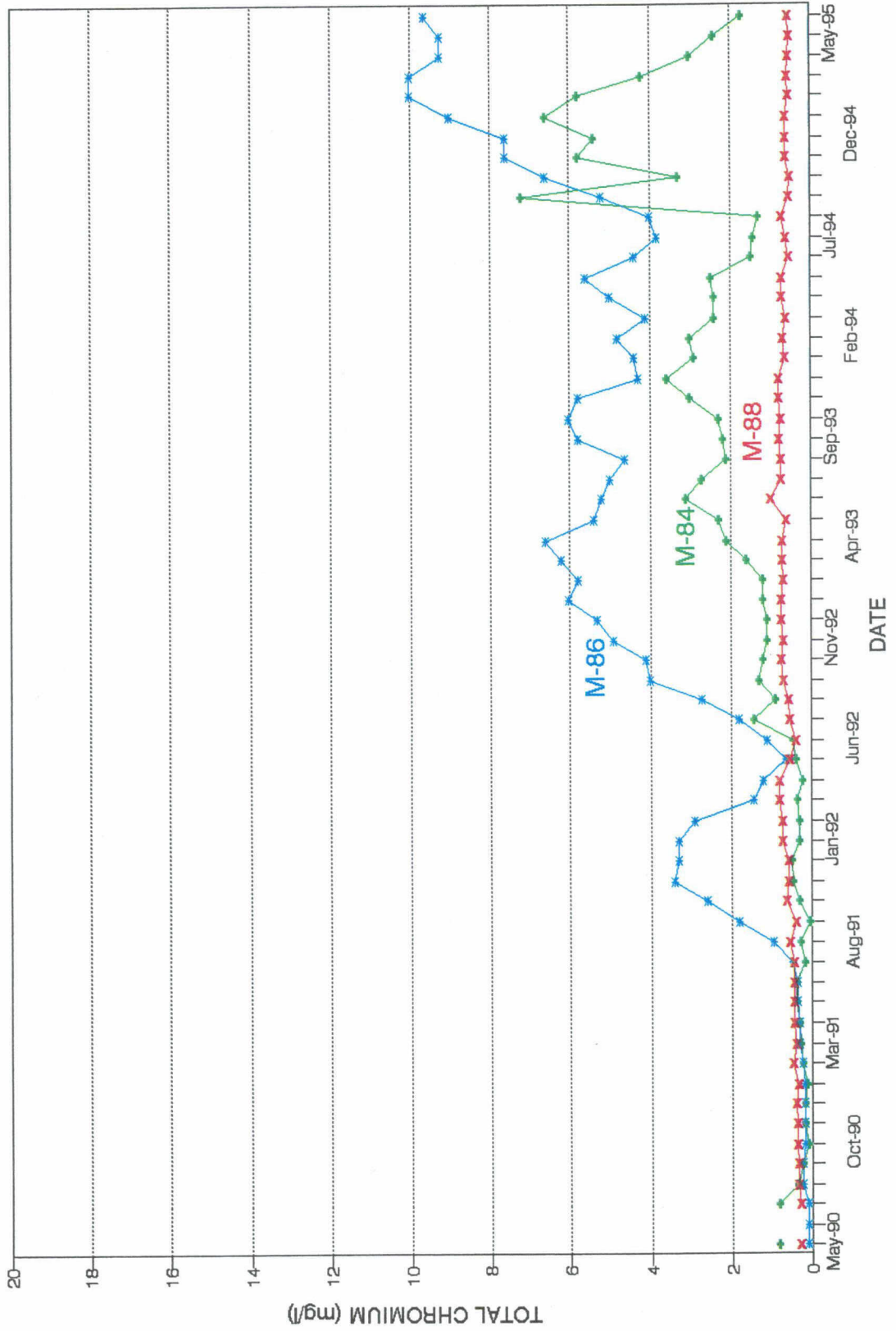
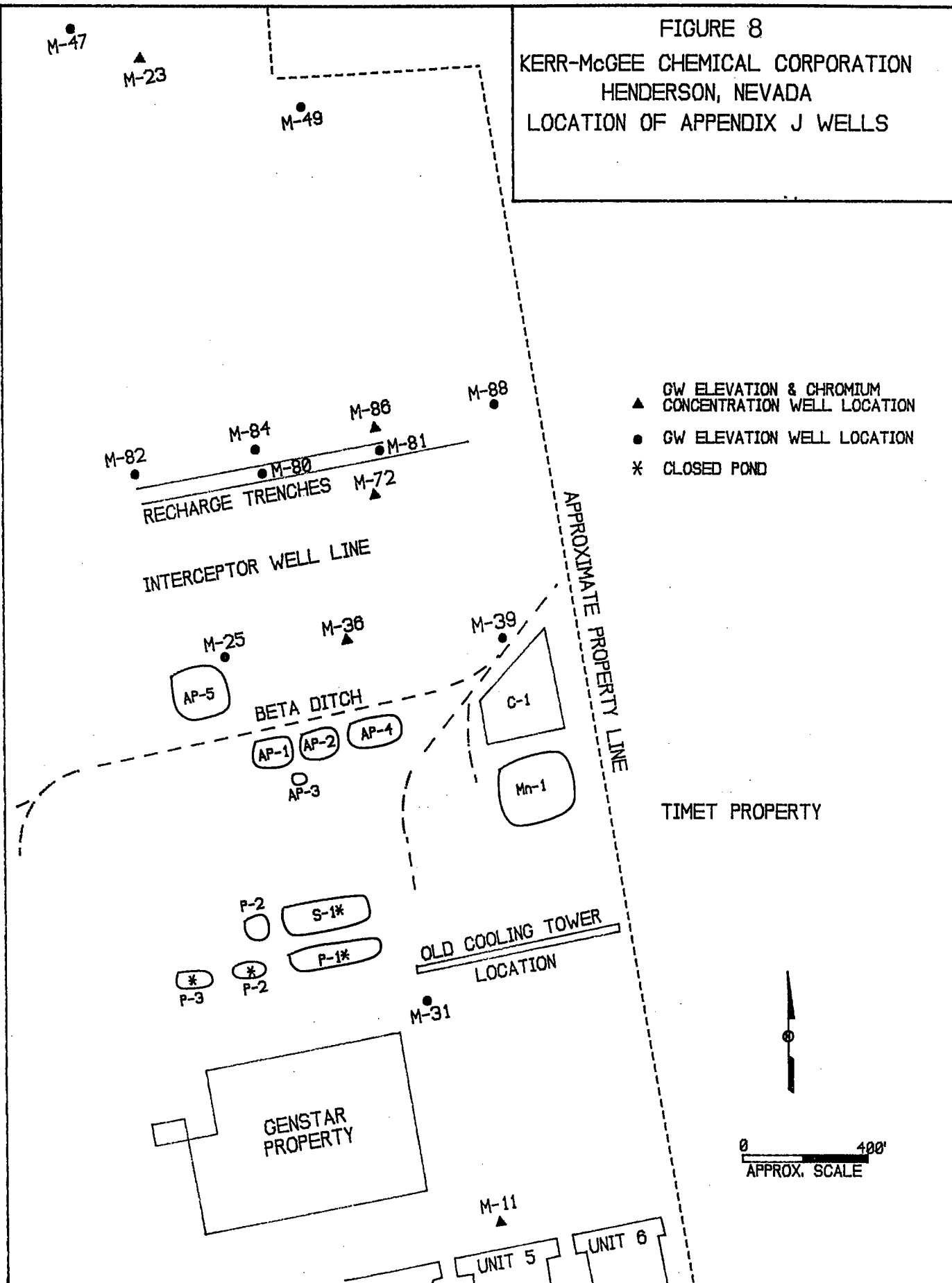


FIGURE 8  
 KERR-McGEE CHEMICAL CORPORATION  
 HENDERSON, NEVADA  
 LOCATION OF APPENDIX J WELLS



- ▲ GW ELEVATION & CHROMIUM CONCENTRATION WELL LOCATION
- GW ELEVATION WELL LOCATION
- \* CLOSED POND

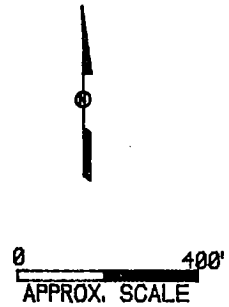
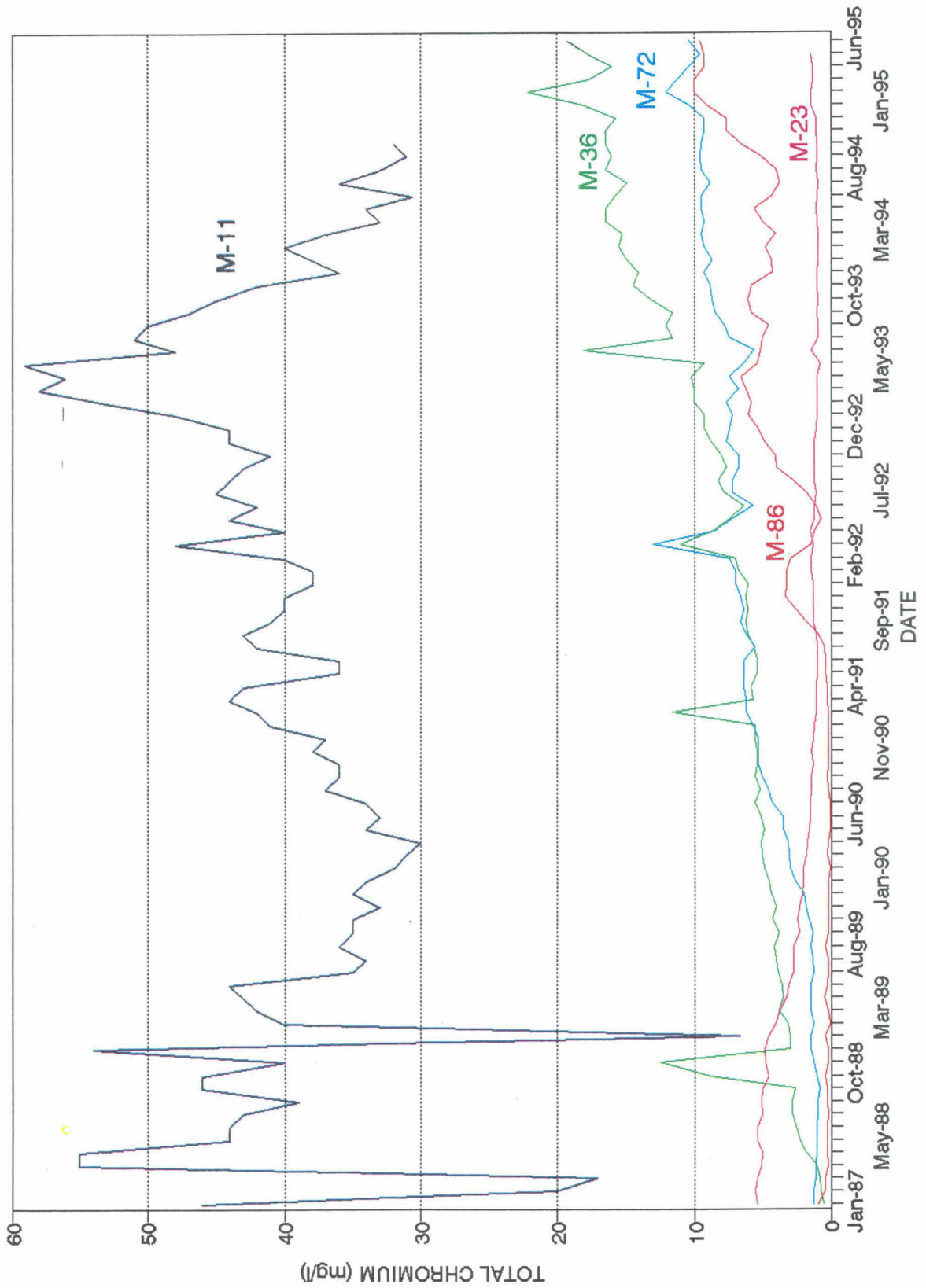


FIGURE 9: APPENDIX J WELLS  
KMCC HENDERSON, NEVADA FACILITY



**FIGURE 10: INTERCEPTOR LINE GRAPH**  
KMCC HENDERSON, NEVADA FACILITY

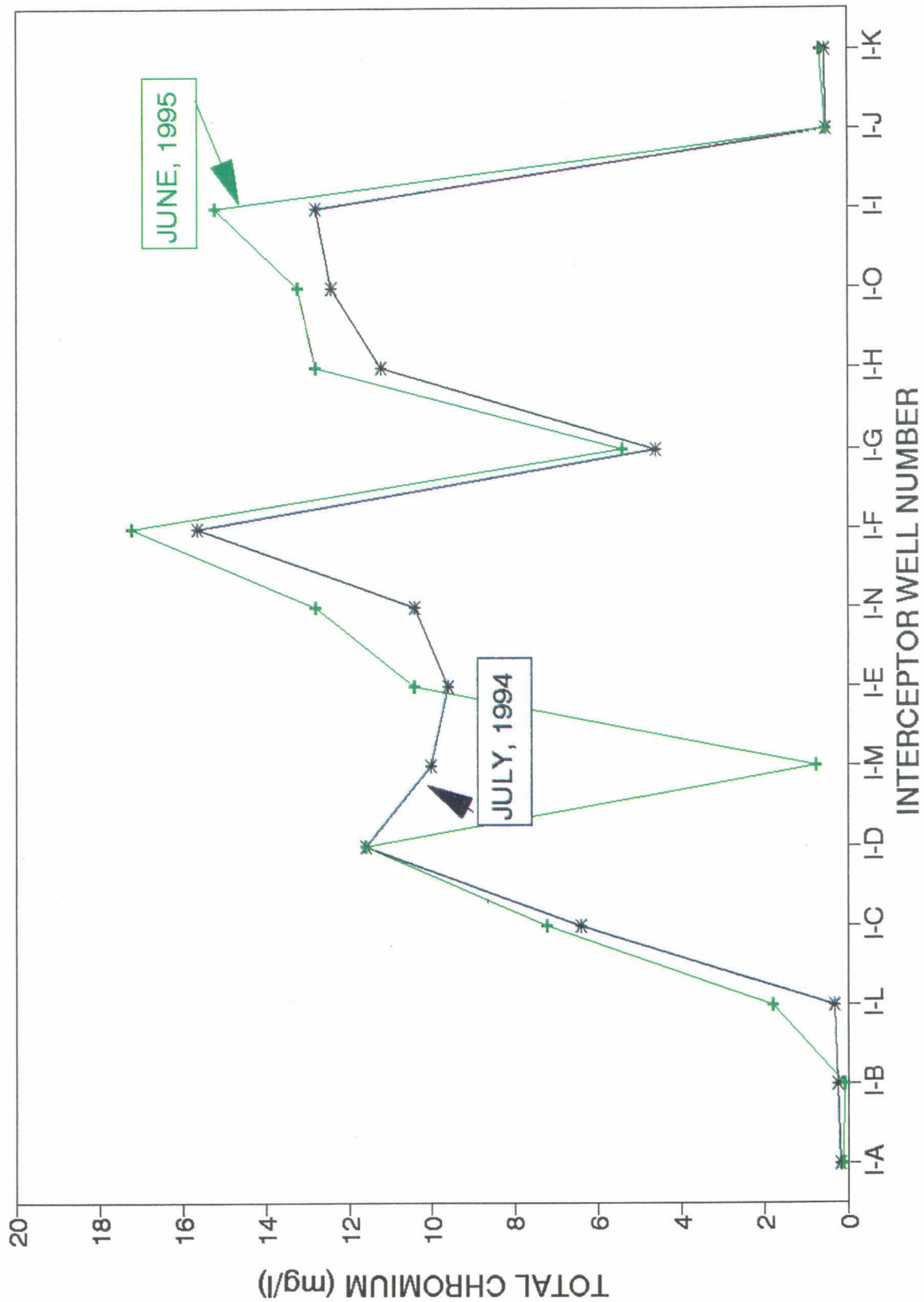




TABLE 1

TOTAL CHROMIUM (mg/l)  
 IN SELECTED MONITOR WELLS  
 KMCC HENDERSON NEVADA

DATE	WELL #			
	M-71	M-73	M-84	M-88
Jul-91	7.00	0.83	0.14	0.43
Aug-91	9.80	0.84	0.24	0.55
Sep-91	10.00	0.94	0.02	0.40
Oct-91	10.20	0.90	0.29	0.61
Nov-91	10.20	0.94	0.44	0.56
Dec-91	11.20	0.97	0.45	0.58
Jan-92	12.00	1.00	0.27	0.72
Feb-92	12.00	1.00	0.29	0.70
Mar-92	16.00	1.10	0.30	0.80
Apr-92	16.60	0.84	0.21	0.80
May-92	12.00	0.87	0.34	0.55
Jun-92	11.00	0.89	0.43	0.39
Jul-92	11.60	0.96	1.40	0.53
Aug-92	12.00	1.00	0.87	0.56
Sep-92	12.00	1.30	1.30	0.69
Oct-92	11.60	1.30	1.20	0.76
Nov-92	11.60	1.40	1.10	0.68
Dec-92	10.80	1.30	1.10	0.75
Jan-93	10.40	1.30	1.20	0.74
Feb-93	10.00	1.20	1.20	0.69
Mar-93	10.40	1.30	1.60	0.70
Apr-93	10.80	1.40	2.10	0.72
May-93	9.90	1.40	2.30	0.59
Jun-93	11.00	1.80	3.10	1.00

TABLE 1(cont.)

TOTAL CHROMIUM (mg/l)  
 IN SELECTED MONITOR WELLS  
 KMCC HENDERSON NEVADA

DATE	WELL #			
	M-71	M-73	M-84	M-88
Jul-93	10.80	1.80	2.70	0.74
Aug-93	11.80	2.00	2.10	0.75
Sep-93	10.00	2.20	2.20	0.80
Oct-93	10.40	2.50	2.30	0.74
Nov-93	11.20	2.70	3.00	0.80
Dec-93	10.80	2.90	3.60	0.79
Jan-94	10.00	3.00	2.90	0.65
Feb-94	11.00	3.20	3.00	0.67
Mar-94	10.00	3.10	2.40	0.59
Apr-94	12.00	4.30	2.40	0.71
May-94	11.60	4.40	2.50	0.70
Jun-94	10.80	4.50	1.50	0.54
Jul-94	9.60	4.40	1.40	0.62
Aug-94	10.60	5.60	1.30	0.71
Sep-94	10.80	5.60	7.20	0.53
Oct-94	12.00	5.80	3.30	0.50
Nov-94	12.40	5.60	5.80	0.60
Dec-94	12.80	5.40	5.40	0.62
Jan-95	18.00	6.40	6.60	0.60
Feb-95	16.00	6.60	5.80	0.52
Mar-95	13.60	5.80	4.20	0.57
Apr-95	12.40	5.80	3.00	0.52
May-95	11.60	5.60	2.40	0.48
Jun-95	12.00	6.20	1.70	0.52

**TABLE 2**  
**INTERCEPTOR WELL DISCHARGE RATES**  
**DISCHARGE RATE (GPM)**

WELL #	DEC. 1990	DEC. 1991	DEC. 1992	DEC. 1993	DEC. 1994	JUNE 1995
I-A	2.1	2.5	2.4	2.7	2.7	2.8
I-B	2.0	2.0	1.9	2.2	2.3	2.2
I-C	3.8	3.8	3.8	4.0	1.1	3.8
I-D	1.2	1.0	1.0	1.0	0.7	1.5
I-E	1.2	1.4	1.0	2.0	0.8	0.5
I-F	12.6	11.7	6.2	6.3	4.2	8.5
I-G	3.1	1.1	0.3	0.3	0.2	0.1
I-H*	2.0	1.4	1.2	2.1	0.7	0.9
I-I	9.5	7.1	6.7	6.5	5.8	7.1
I-J	5.8	4.6	4.5	4.5	3.9	4.4
I-K	<u>4.9</u>	<u>4.3</u>	<u>3.9</u>	<u>3.9</u>	3.0	3.2
I-L					1.7	2.2
I-M					2.7	2.3
I-N					1.7	3.3
I-O					<u>0.3</u>	<u>0.8</u>
TOTAL	48.2	40.9	32.9	35.5	31.5	43.6

TABLE 3

TOTAL CHROMIUM CONCENTRATION (mg/l)  
 IN APPENDIX J WELLS  
 KERR-McGEE CHEMICAL CORPORATION  
 HENDERSON, NEVADA

DATE	WELL #				
	M-11	M-23	M-36	M-72	M-86
Jul-89	34.00	2.70	4.00	1.28	0.13
Aug-89	36.00	2.70	4.20	1.40	0.38
Sep-89	35.00	2.30	3.80	1.30	0.17
Oct-89	35.00	2.40	4.30	1.60	0.12
Nov-89	33.00	2.30	4.00	1.80	0.13
Dec-89	35.00	2.10	4.40	1.90	0.14
Jan-90	34.00	2.00	4.50	2.60	0.14
Feb-90	32.00	2.00	4.90	2.90	0.10
Mar-90	31.00	1.80	5.00	3.00	0.25
Apr-90	30.00	1.70	5.10	3.20	0.12
May-90	34.00	1.60	4.90	3.50	0.07
Jun-90	33.00	1.50	5.10	3.50	0.06
Jul-90	34.00	1.50	5.50	4.30	0.04
Aug-90	37.00	1.40	5.20	4.60	0.19
Sep-90	36.00	1.40	5.50	5.00	0.21
Oct-90	36.00	1.30	5.40	5.30	0.12
Nov-90	38.00	1.40	5.40	5.30	0.14
Dec-90	37.00	1.30	5.50	5.30	0.13
Jan-91	41.00	1.20	5.50	5.70	0.13
Feb-91	42.00	1.10	11.60	6.20	0.20
Mar-91	44.00	1.10	5.70	6.20	0.27
Apr-91	43.00	1.10	5.80	6.40	0.29
May-91	36.00	1.00	5.40	6.40	0.32
Jun-91	36.00	1.00	5.40	6.40	0.32
Jul-91	42.00	0.94	5.60	5.50	0.46
Aug-91	43.00	1.10	6.00	6.20	0.92
Sep-91	41.00	1.30	6.20	6.60	1.80
Oct-91	40.00	1.30	6.00	6.40	2.60
Nov-91	40.00	1.30	6.20	6.60	3.40
Dec-91	38.00	1.30	6.00	7.00	3.30
Jan-92	38.00	1.40	6.80	7.00	3.30
Feb-92	40.00	1.40	7.00	7.40	2.90
Mar-92	48.00	1.30	11.00	13.00	1.40
Apr-92	40.00	1.50	8.60	8.50	1.20
May-92	44.00	1.20	7.40	7.30	0.62
Jun-92	42.00	1.20	6.40	5.70	1.10

TABLE 3(cont.)

TOTAL CHROMIUM CONCENTRATION (mg/l)  
 IN APPENDIX J WELLS  
 KERR-McGEE CHEMICAL CORPORATION  
 HENDERSON, NEVADA

DATE	WELL #				
	M-11	M-23	M-36	M-72	M-86
Jul-92	45.00	1.10	7.80	7.20	1.80
Aug-92	44.00	1.20	8.20	7.20	2.70
Sep-92	43.00	1.20	7.60	6.80	4.00
Oct-92	41.00	1.20	8.00	6.80	4.10
Nov-92	44.00	1.20	8.70	7.60	4.90
Dec-92	44.00	1.10	9.20	7.40	5.30
Jan-93	48.00	1.00	9.20	7.20	6.00
Feb-93	53.00	0.99	10.00	7.60	5.80
Mar-93	58.00	0.97	10.00	6.80	6.20
Apr-93	56.00	0.98	10.20	7.40	6.60
May-93	59.00	0.82	9.20	6.40	5.40
Jun-93	48.00	1.40	18.00	5.60	5.20
Jul-93	51.00	0.87	11.60	7.40	5.00
Aug-93	50.00	0.89	12.00	7.80	4.60
Sep-93	47.00	0.93	11.60	8.40	5.80
Oct-93	45.00	0.89	13.20	8.60	6.00
Nov-93	42.00	0.98	14.40	8.80	5.80
Dec-93	36.00	0.94	14.00	9.20	4.30
Jan-94	38.00	0.90	14.80	8.60	4.40
Feb-94	40.00	0.88	15.40	9.20	4.80
Mar-94	37.00	0.91	15.20	9.40	4.10
Apr-94	33.00	1.00	16.40	9.20	5.00
May-94	34.00	1.10	16.40	9.40	5.60
Jun-94	30.60	1.00	15.80	9.40	4.40
Jul-94	36.00	0.90	14.80	8.80	3.80
Aug-94	33.00	1.08	16.40	9.40	4.00
Sep-94	31.00	0.96	16.00	9.60	5.20
Oct-94	32.00	1.00	16.40	9.40	6.60
Nov-94		1.10	16.40	9.20	7.60
Dec-94		1.10	15.60	9.20	7.60
Jan-95		1.40	18.00	10.40	9.00
Feb-95		1.40	22.00	12.00	10.00
Mar-95		1.30	17.60	11.20	10.00
Apr-95		1.30	16.00	10.40	9.20
May-95		1.40	17.60	9.60	9.20
Jun-95		1.50	19.20	10.40	9.60

**TABLE 4**  
**GROUNDWATER TREATMENT ANALYSIS**

WEEK OF	VOLUME TREATED (M gal.)	FEED CHROMIUM (mg/l)	TREATED TOTAL (mg/l)	EFFLUENT HEXAVALENT (mg/l)
Jul. 1 - Jul. 7	392	no sample	1.26	0.027
Jul. 8 - Jul. 14	346	4.21	0.192	0.0018
Jul. 15 - Jul. 21	345	4.45	0.042	0.0072
Jul. 22 - Jul. 28	340	4.25	0.026	0.0022
July, 1991 Average	356	4.30	0.380	0.0096
Jul. 29 - Aug. 4	314	4.70	0.035	0.0015
Aug. 5 - Aug. 11	332	4.60	0.272	0.0126
Aug. 12 - Aug. 18	348	3.70	0.056	0.0038
Aug. 19 - Aug. 25	335	3.30	0.023	0.0023
Aug. 26 - Sep. 1	372	4.00	0.030	0.0023
August, 1991 Average	344	4.06	0.083	0.0045
Sept. 2 - Sept. 8	362	4.50	0.360	0.388
Sept. 9 - Sept. 15	352	4.10	0.084	0.0084
Sept. 16 - Sept. 22	338	3.90	0.044	0.0156
Sept. 23 - Sept. 29	333	3.75	0.024	0.0022
Sept., 1991 Average	346	4.06	0.128	0.1036
Sept. 29 - Oct. 6	348	4.35	0.028	0.0042
Oct. 7 - Oct. 13	357	4.10	0.030	0.0030
Oct. 14 - Oct. 20	349	4.00	0.023	0.0017
Oct. 21 - Oct. 27	302	4.00	0.045	0.011
Oct. 28 - Nov. 3	336	3.65	0.120	0.224
October, 1991 Average	339	4.12	0.049	0.0484
Nov. 4 - Nov. 10	317	4.60	0.037	0.010
Nov. 11 - Nov. 17	336	4.70	0.368	0.363
Nov. 18 - Nov. 24	353	4.35	0.030	0.002
Nov. 25 - Dec. 1	344	4.00	0.050	0.003
Nov., 1991 Average	338	4.41	0.121	0.0945
Dec. 2 - Dec. 8.	303	4.50	0.063	0.017
Dec. 9 - Dec. 15	305	5.15	0.484	0.481
Dec. 16 - Dec. 22	336	4.10	0.065	0.0475
Dec. 23 - Dec. 31	329	4.70	0.153	0.0517
Dec., 1991 Average	318	4.61	0.191	0.1493

TABLE 4 cont'd  
GROUNDWATER TREATMENT ANALYSIS

WEEK OF	VOLUME TREATED (M gal.)	FEED CHROMIUM (mg/l)	TREATED TOTAL (mg/l)	EFFLUENT HEXAVALENT (mg/l)
Jan. 1 - Jan. 5	195	4.3	0.033	0.0040
Jan. 6 - Jan. 12	331	4.6	0.134	0.0148
Jan. 13 - Jan. 19	332	4.4	0.232	0.0070
Jan. 20 - Jan. 26	323	3.90	0.028	0.0034
Jan. 27 - Feb. 2	238	4.2	0.0044	0.0038
Jan., 1992 Average	283	4.28	0.0942	0.0066
Feb. 3 - Feb. 9	343	6.1	0.040	0.0023
Feb. 10 - Feb. 16	336	3.35	0.030	0.0016
Feb. 17 - Feb. 23	338	4.35	0.117	0.182
Feb. 24 - Mar. 1	344	4.05	0.026	0.0010
Feb., 1992 Average	340	4.46	0.053	0.0467
Mar. 2 - Mar. 8	340	4.25	0.036	0.0050
Mar. 9 - Mar. 15	352	4.75	0.026	0.0010
Mar. 16 - Mar. 22	369	4.90	0.020	0.0043
Mar. 23 - Mar. 29	366	4.50	0.036	0.0118
Mar., 1992 Average	356	4.6	0.0295	0.0221
Mar. 30 - Apr. 5	360	4.10	0.024	0.0026
Apr. 6 - Apr. 12	378	3.90	0.022	0.010
Apr. 13 - Apr. 19	409	4.45	0.015	0.0055
Apr. 20 - Apr. 26	399	4.55	0.018	0.0028
Apr. 27 - May 3	347	5.5	0.016	0.0052
Apr., 1992 Average	378	4.5	0.019	0.0034
May 4 - May 10	341	5.55	0.014	0.0116
May 11 - May 17	354	4.65	0.063	0.112
May 18 - May 24	338	5.35	0.228	0.103
May 25 - May 31	323	5.25	0.151	0.002
May, 1992 Average	339	5.2	0.114	0.0572
Jun. 1 - Jun. 7	314	4.7	0.010	0.0020
Jun. 8 - Jun. 14	429	4.35	0.0636	0.0035
Jun. 15 - Jun. 21	456	4.15	0.0638	0.1085
Jun. 22 - Jun. 28	447	4.5	0.0436	0.0734
June, 1992 Average	412	4.425	0.0453	0.0224

**TABLE 4 cont'd**  
**GROUNDWATER TREATMENT ANALYSES**

WEEK OF	VOLUME TREATED (M gal.)	FEED CHROMIUM (mg/l)	TREATED TOTAL (mg/l)	EFFLUENT HEXAVALENT (mg/l)
Jun. 29 - Jul.5	401	5.70	0.615	0.1600
Jul. 6 - Jul 12	453	5.20	0.191	0.0050
Jul. 13 - Jul. 19	443	5.15	0.051	0.0160
Jul. 20 - Jul.26	382	4.40	0.020	0.0034
Jul. 27 - Aug.2	421	2.10	0.078	0.0178
July 1992 Average	340	4.50	0.191	0.0786
Aug. 3 - Aug.9	333	5.40	0.045	0.025
Aug. 10 - Aug.16	425	4.90	0.050	0.0084
Aug. 17 - Aug.23	313	7.20	0.055	0.0240
Aug. 24 - Aug. 30	409	5.50	0.042	0.0052
August 1992 Average	370	5.75	0.048	0.0157
Aug. 31 - Sept. 6	388	5.70	0.298	0.2842
Sept. 7 - Sept 13	253	7.10	0.028	0.0013
Sept. 14 - Sept 20	409	4.50	0.026	0.0080
Sept. 21 - Sept 27	425	4.40	0.063	0.0022
Sept. 28 - Oct. 4	362	4.60	0.187	0.0093
Sept. 1992 Average	367	4.86	0.120	0.0610
Oct. 5 - Oct. 11	345	3.09	2.005	1.1840
Oct. 12 - Oct. 18	333	4.70	0.030	0.0045
Oct. 19 - Oct. 25	357	4.65	0.022	0.0012
Oct. 26 - Nov. 1	360	4.95	0.045	0.0030
October 1992 Average	349	4.55	0.526	0.2993
Nov. 2 - Nov. 8	353	4.95	0.114	0.0058
Nov. 9 - Nov. 15	339	5.10	0.030	0.0118
Nov. 16 - Nov. 22	344	5.00	0.126	0.0332
Nov. 23 - Nov. 29	331	4.60	0.253	0.1473
November 1992 Average	341	4.91	0.131	0.0495
Nov. 30 - Dec. 6	328	4.80	0.909	0.0014
Dec. 7 - Dec. 13	317	4.40	0.206	0.0500
Dec. 14 - Dec. 20	317	4.60	0.018	0.0030
Dec. 21 - Dec. 27	318	3.90	0.059	0.0330
Dec. 1992 Average	320	4.43	0.093	0.0219

TABLE 4 cont'd  
GROUNDWATER TREATMENT ANALYSES

WEEK OF	VOLUME TREATED (M gal.)	FEED CHROMIUM (mg/l)	TREATED TOTAL (mg/l)	EFFLUENT HEXAVALENT (mg/l)
Dec. 28 - Jan. 3	274	4.4	0.09	0.008
Jan. 4 - Jan. 10	309	4.6	0.05	0.002
Jan. 11 - Jan. 17	314	4.9	0.003	0.002
Jan. 18 - Jan. 24	242	4.8	0.19	0.003
Jan. 25 - Jan. 31	293	5.0	0.44	0.014
Jan. 1993 Average	286	4.7	0.16	0.006
Feb. 1 - Feb. 7	320	4.8	0.04	0.002
Feb. 8 - Feb. 14	333	5.9	0.51	0.046
Feb. 15 - Feb. 21	352	4.5	0.024	0.004
Feb. 22 - Feb. 28	304	4.3	0.025	0.002
Feb. 1993 Average	327	4.9	0.15	0.014
Mar. 1 - Mar. 7	368	4.4	0.68	0.05
Mar. 8 - Mar. 14	365	5.3	0.10	0.003
Mar. 15 - Mar. 21	374	4.9	0.22	0.014
Mar. 22 - Mar. 28	386	5.5	0.17	0.03
Mar. 1993 Average	373	5.0	0.29	0.02
Mar. 29 - Apr. 4	368	5.7	0.058	0.004
Apr. 5 - Apr. 11	329	5.3	0.020	0.001
Apr. 12 - Apr. 18	374	5.3	0.020	0.001
Apr. 19 - Apr. 25	388	5.9	0.038	0.003
Apr. 26 - May 2	369	5.0	0.03	0.003
Apr. 1993 Average	366	5.4	0.03	0.002
May 3 - May 9	387	5.2	0.18	0.005
May 10 - May 16	377	5.3	0.03	0.005
May 17 - May 23	364	5.9	0.07	0.008
May 24 - May 30	362	6.5	0.22	0.04
May 1993 Average	373	5.7	0.13	0.015
May 31 - Jun. 6	337	6.0	0.06	0.04
Jun. 7 - Jun. 13	288	5.9	0.17	0.002
Jun. 14 - Jun. 20	294	7.6	0.04	0.026
Jun. 21 - Jun. 27	322	5.7	0.03	0.004
Jun. 1993 Average	310	6.3	0.075	0.018

TABLE 4 cont'd  
GROUNDWATER TREATMENT ANALYSES

WEEK OF	VOLUME TREATED (M gal.)	FEED CHROMIUM (mg/l)	TREATED TOTAL (mg/l)	EFFLUENT HEXAVALENT (mg/l)
Jun. 28 - Jul.4	316	5.50	0.150	0.0070
Jul. 5 - Jul.11	277	5.70	0.009	0.0020
Jul. 12 - Jul.18	347	5.00	0.024	0.0030
Jul. 19 - Jul.25	358	5.00	0.025	0.0030
Jul. 26 - Aug.1	436	5.30	0.270	0.0500
July 1993 Average	347	5.30	0.096	0.0130
Aug. 2 - Aug.8	351	5.70	0.240	0.0330
Aug. 9 - Aug.15	365	5.20	0.026	0.0020
Aug. 16 - Aug.22	341	5.70	0.058	0.0030
Aug. 23 - Aug.29	285	5.60	0.120	0.0120
August 1993 Average	336	5.60	0.110	0.0130
Aug. 30 - Sept. 5	343	5.10	0.110	0.0110
Sept. 6 - Sept. 12	326	4.80	0.170	0.0040
Sept. 13 - Sept 19	331	5.00	0.023	0.0010
Sept. 20 - Sept 26	317	5.00	0.068	0.0080
Sept. 27 - Oct. 3	362	4.90	0.014	0.0020
Sept. 1993 Average	336	5.00	0.077	0.0050
Oct. 4 - Oct. 10	509	5.00	0.032	0.0020
Oct. 11 - Oct. 17	352	5.60	0.024	0.0110
Oct. 18 - Oct. 24	337	5.30	0.014	0.0010
Oct. 25 - Oct. 31	322	5.20	0.022	0.0050
October 1993 Average	380	5.28	0.023	0.0050
Nov. 1 - Nov. 7	278	6.00	0.051	0.0050
Nov. 8 - Nov. 14	274	6.60	0.560	0.0500
Nov. 15 - Nov. 21	294	6.30	0.028	0.0090
Nov. 22 - Nov. 28	256	5.00	0.025	0.0020
November 1993 Average	276	5.90	0.170	0.0170
Nov. 29 - Dec. 5	280	5.60	0.063	0.0050
Dec. 6 - Dec. 12	257	6.20	0.020	0.0070
Dec. 13 - Dec. 19	215	6.80	0.990	0.0050
Dec. 20 - Dec. 26	265	6.20	0.260	0.0210
Dec. 27 - Jan. 2	245	6.20	0.050	0.0080
Dec. 1993 Average	252	6.20	0.280	0.0090

TABLE 4 cont'd  
GROUNDWATER TREATMENT ANALYSES

WEEK OF	VOLUME TREATED (M gal.)	FEED CHROMIUM (mg/l)	TREATED TOTAL (mg/l)	EFFLUENT HEXAVALENT (mg/l)
Jan. 3 - Jan. 9	259	9.3	0.01	0.002
Jan. 10 - Jan. 16	273	5.7	0.03	0.005
Jan. 17 - Jan. 23	298	5.8	0.06	0.01
Jan. 24 - Jan. 30	287	5.9	0.09	0.03
Jan. 1994 Average	279	6.7	0.05	0.011
Jan. 31 - Feb. 6	294	5.8	0.53	0.05
Feb. 7 - Feb. 13	266	6.1	0.06	0.02
Feb. 14 - Feb. 20	276	5.9	0.03	0.006
Feb. 21 - Feb. 27	285	5.7	0.019	0.008
Feb. 28 - Mar. 6	252	5.7	0.024	0.003
Feb. 1994 Average	275	5.8	0.13	0.017
Mar. 7 - Mar. 13	273	5.3	0.14	0.045
Mar. 14 - Mar. 20	243	5.3	0.06	0.024
Mar. 21 - Mar. 27	212	5.3	0.02	0.005
Mar. 28 - Apr. 3	232	5.1	0.03	0.01
Mar. 1994 Average	240	5.3	0.06	0.021
Apr. 4 - Apr. 10	253	6.5	0.075	0.028
Apr. 11 - Apr. 17	257	6.4	0.046	0.021
Apr. 18 - Apr. 24	254	6.6	0.020	0.005
Apr. 25 - May 1	271	6.6	0.038	0.018
Apr. 1994 Average	259	6.5	0.045	0.018
May 2 - May 8	270	6.6	0.065	0.008
May 9 - May 15	287	7.1	0.13	0.045
May 16 - May 22	296	6.8	0.47	0.027
May 23 - May 29	294	7.1	0.099	0.018
May 1994 Average	287	6.9	0.19	0.025
May 30 - Jun. 5	288	7.3	0.23	0.048
Jun. 6 - Jun. 12	294	7.9	0.06	0.008
Jun. 13 - Jun. 19	296	7.2	0.34	0.032
Jun. 20 - Jun. 26	288	6.9	0.018	0.009
Jun. 1994 Average	292	7.3	0.16	0.024

TABLE 4 cont'd  
GROUNDWATER TREATMENT ANALYSES

WEEK OF	VOLUME TREATED (M gal.)	FEED CHROMIUM (mg/l)	TREATED TOTAL (mg/l)	EFFLUENT HEXAVALENT (mg/l)
Jun. 27 - Jul.3	289	7.60	0.090	0.050
Jul. 4 - Jul.10	301	6.40	0.020	0.010
Jul. 11 - Jul.17	271	7.60	0.030	0.010
Jul. 18 - Jul.24	340	7.60	0.010	0.010
Jul. 25 - Jul.31	319	7.90	0.040	0.010
July 1994 Average	304	7.40	0.038	0.018
Aug. 1 - Aug.7	317	10.60	0.070	0.040
Aug. 8 - Aug.14	340	8.20	0.150	0.020
Aug. 15 - Aug.21	327	7.40	0.010	0.010
Aug. 22 - Aug.28	312	8.90	0.170	0.010
Aug. 29 - Sept. 4	300	6.80	0.040	0.010
August 1994 Average	319	8.38	0.088	0.018
Sept. 5 - Sept 11	301	7.20	0.490	0.030
Sept. 12 - Sept 18	267	8.70	0.020	0.010
Sept. 19 - Sept 25	277	8.60	0.020	0.010
Sept. 26 - Oct. 2	264	7.40	0.220	0.040
Sept. 1994 Average	277	7.97	0.188	0.022
Oct. 3 - Oct. 9	256	4.10	0.180	0.040
Oct. 10 - Oct. 16	316	6.50	0.150	0.020
Oct. 17 - Oct. 23	297	6.00	0.120	0.030
Oct. 24 - Oct. 30	282	8.20	0.040	0.010
October 1994 Average	288	6.20	0.123	0.025
Oct. 31 - Nov. 6	274	7.60	0.020	0.010
Nov. 7 - Nov. 13	287	7.90	0.030	0.010
Nov. 14 - Nov. 20	330	6.70	0.220	0.030
Nov. 21 - Nov. 27	308	7.20	0.700	0.040
November 1994 Average	300	7.40	0.242	0.022
Nov. 28 - Dec. 4	326	6.70	0.020	0.010
Dec. 5 - Dec. 11		6.20	0.020	0.0070
Dec. 12 - Dec. 18		6.80	0.990	0.0050
Dec. 19 - Dec. 25		6.20	0.260	0.0210
Dec. 26 - Jan. 1		6.20	0.050	0.0080
Dec. 1994 Average		6.20	0.280	0.0090

TABLE 4 cont'd  
GROUNDWATER TREATMENT ANALYSES

WEEK OF	VOLUME TREATED (M gal.)	FEED CHROMIUM (mg/l)	TREATED TOTAL (mg/l)	EFFLUENT HEXAVALENT (mg/l)
Jan. 2 - Jan. 8	342	6.8	0.01	0.002
Jan. 9 - Jan. 15	300	7.6	0.23	0.03
Jan. 16 - Jan. 22	355	7.8	0.74	0.01
Jan. 23 - Jan. 29	351	7.8	0.18	0.03
Jan. 1995 Average	337	7.5	0.29	0.02
Jan. 30 - Feb. 5	385	8.0	0.03	0.01
Feb. 6 - Feb. 12	405	7.8	0.12	0.01
Feb. 13 - Feb. 19	471	8.2	0.61	0.03
Feb. 20 - Feb. 26	359	8.0	0.05	0.01
Feb. 27 - Mar. 6	398	8.0	0.44	0.02
Feb. 1995 Average	404	8.0	0.25	0.02
Mar. 7 - Mar. 12	444	8.8	0.21	0.03
Mar. 13 - Mar. 19	413	8.1	0.40	0.01
Mar. 20 - Mar. 26	412	7.8	0.29	0.02
Mar. 27 - Apr. 2	426	7.9	0.08	0.01
Mar. 1995 Average	424	8.2	0.25	0.02
Apr. 3 - Apr. 9	329	8.5	0.16	0.01
Apr. 10 - Apr. 16	430	7.5	0.02	0.01
Apr. 17 - Apr. 23	397	8.3	0.26	0.05
Apr. 24 - Apr. 30	471	8.0	0.06	0.01
Apr. 1995 Average	407	8.1	0.13	0.02
May 1 - May 7	434	8.8	0.81	0.05
May 8 - May 14	425	8.0	0.78	0.05
May 15 - May 21	432	8.7	0.29	0.02
May 22 - May 28	509	8.6	0.07	0.01
May 1995 Average	450	8.5	0.49	0.03
May 29 - Jun. 4	377	8.9	0.22	0.03
Jun. 5 - Jun. 11	419	8.6	0.19	0.04
Jun. 12 - Jun. 18	411	8.6	0.59	0.04
Jun. 19 - Jun. 25	407	8.6	0.74	0.02
Jun. 26 - Jul. 2	421	8.8	0.14	0.04
Jun. 1995 Average	407	8.7	0.38	0.03



**APPENDIX A**  
**GROUNDWATER ELEVATIONS**

KERR-McGEE CHEMICAL CORPORATION  
 HENDERSON, NEVADA FACILITY  
 GROUNDWATER ELEVATIONS

TOC-->	M-11 DTW ELEV.	M-14 DTW ELEV.	M-15 DTW ELEV.	M-17 DTW ELEV.	M-18 DTW ELEV.	M-19 DTW ELEV.	M-22R DTW ELEV.	M-23 DTW ELEV.	M-25 DTW ELEV.	M-27 DTW ELEV.
16-Sep-92	44.25	32.95	31.60	36.00	21.00	34.50	29.70	19.70	33.10	25.60
01-Dec-92	44.15	33.30	32.25	36.15	21.10	34.00	29.90	20.15	33.40	26.00
28-Jan-93	43.60	32.90	32.25	36.00	21.10	34.50	29.95	20.20	33.35	26.00
19-Feb-93	47.30	32.90	32.25	35.80	20.40	33.20	29.60	19.10	33.15	26.10
03-Mar-93	43.75	32.90	32.25	35.60	20.40	34.00	29.55	20.65	33.00	26.10
29-Apr-93	44.00	31.77	31.27	35.70	21.10	34.50	29.65	19.50	32.90	25.57
28-May-93	44.05	31.77	31.27	35.75	21.10	35.00	22.70	19.70	33.00	25.57
22-Jun-93	44.45	31.77	31.27	34.79	21.10	33.20	22.70	19.94	33.26	25.57
28-Jul-93	44.40	31.77	31.27	35.00	21.10	33.00	22.70	19.94	33.05	25.57
31-Aug-93	44.20	31.77	31.27	36.00	21.70	33.80	29.70	20.40	33.20	25.80
23-Sep-93	44.15	31.70	32.20	35.15	21.70	33.00	29.80	20.50	33.20	25.80
27-Oct-93	43.95	31.70	32.20	35.20	21.70	33.80	29.80	20.50	33.20	25.80
18-Nov-93	43.75	32.45	32.55	35.70	21.85	32.80	30.75	20.75	33.00	25.70
15-Dec-93	43.20	32.45	32.55	35.05	21.85	32.90	30.75	20.75	33.45	25.70
14-Jan-94	43.00	33.50	32.90	35.00	22.15	33.00	29.95	21.00	33.40	25.80
22-Feb-94	42.65	33.50	32.90	34.70	22.15	32.80	29.85	21.15	33.30	25.80
21-Mar-94	42.45	32.40	32.15	34.65	22.20	34.00	29.70	21.40	33.30	-DRY-
26-Apr-94	42.40	32.40	32.15	34.65	22.20	34.00	29.70	21.35	33.30	out
19-May-94	42.45	32.40	32.15	34.40	22.20	30.70	29.50	21.40	33.10	out
23-Jun-94	42.50	32.40	32.15	34.10	22.20	34.80	29.35	21.55	33.30	out
20-Jul-94	42.85	32.60	32.15	34.45	22.20	34.80	29.70	21.65	33.25	out
23-Aug-94	42.95	32.60	32.15	33.65	22.20	34.00	29.70	21.70	33.20	out
30-Sep-94	42.90	33.50	33.55	34.85	22.50	34.00	29.85	22.40	33.30	out
18-Oct-94	42.85	33.50	33.55	34.90	22.50	34.00	29.85	21.85	33.45	out
16-Nov-94	out	33.50	33.55	34.80	22.50	34.00	out	22.00	33.80	out
02-Dec-94	42.65	33.50	33.55	34.65	22.50	34.50	30.10	22.00	33.45	out
27-Jan-95	out	33.50	33.55	34.20	22.50	33.90	29.15	21.90	33.00	out
16-Feb-95	out	33.50	33.55	33.60	22.50	34.00	28.80	21.75	33.50	out
22-Mar-95	42.65	32.40	32.00	33.50	22.15	34.00	28.75	21.80	32.75	25.90
25-Apr-95	out	33.50	33.55	33.50	22.15	33.90	28.75	21.85	32.65	25.90
18-May-95	out	33.40	33.60	33.40	22.00	33.25	28.75	21.90	32.80	25.90
29-Jun-95	41.65	32.00	31.60	33.55	22.00	33.40	28.75	21.85	32.80	25.90

KERR-McGEE CHEMICAL CORPORATION  
HENDERSON, NEVADA FACILITY  
GROUNDWATER ELEVATIONS

TOC-->	M-31 DTW ELEV.	M-36 DTW ELEV.	M-37 DTW ELEV.	M-38 DTW ELEV.	M-39 DTW ELEV.	M-47 DTW ELEV.	M-49 DTW ELEV.	M-53 DTW ELEV.	M-54 DTW ELEV.	M-55 DTW ELEV.										
16-Sep-92	41.15	1747.24	32.50	1725.44	21.55	1728.14	31.35	1726.53	30.80	1728.51	18.30	1698.21	30.80	1700.08	30.60	1720.96	27.70	1721.23	29.80	1719.55
01-Dec-92	41.10	1747.29	32.30	1725.64	31.80	1717.89	31.35	1726.53	30.95	1728.36	18.60	1697.91	30.95	1700.08	31.00	1720.56	28.25	1720.68	30.55	1718.80
28-Jan-93	40.10	1748.29	33.00	1724.94					30.95	1728.36	18.75	1697.76								
19-Feb-93	39.90	1748.49	32.00	1725.94	31.30	1727.98	31.20	1726.68	30.40	1728.91	18.10	1698.41	30.40	1700.38	30.35	1721.21	27.80	1721.13	30.50	1718.85
03-Mar-93	40.35	1748.04	32.00	1725.94					30.35	1728.96	18.10	1698.41								
29-Apr-93	40.90	1747.49	32.00	1725.94	31.09	1728.19	30.88	1727.00	30.65	1728.66	17.95	1698.56	30.70	1728.61	30.70	1728.61	26.69	1722.24	29.30	1720.05
28-May-93	41.00	1747.39	32.00	1725.94					30.45	1728.86	18.33	1698.18	30.45	1728.86	18.43	1700.35	26.69	1722.24	29.30	1720.05
01-Jun-93	41.10	1747.29	32.20	1725.74					30.70	1728.61	18.65	1697.86	30.70	1728.61	18.43	1700.35	26.69	1722.24	29.30	1720.05
28-Jul-93	40.70	1747.69	32.20	1725.74	31.20	1728.08	31.20	1726.68	31.10	1728.21	18.80	1697.71	31.10	1728.21	19.00	1699.78	26.80	1722.13	30.45	1718.90
31-Aug-93	41.20	1747.19	32.40	1725.54					30.95	1728.36	18.90	1697.61	30.95	1728.36	18.80	1699.78	26.80	1722.13	30.45	1718.90
23-Sep-93	41.15	1747.24	32.20	1725.74					31.10	1728.21	19.00	1697.51	31.10	1728.21	19.00	1699.78	26.80	1722.13	30.45	1718.90
27-Oct-93	41.20	1747.19	32.25	1725.69	31.50	1727.78	31.25	1726.63	31.65	1727.66	19.10	1697.41	31.65	1727.66	19.10	1699.78	26.80	1722.13	30.45	1718.90
18-Nov-93	41.20	1747.19	32.20	1725.74					31.15	1728.11	19.35	1697.21	31.15	1728.11	19.35	1699.78	26.80	1722.13	30.45	1718.90
15-Dec-93	40.15	1748.24	32.30	1725.64	31.50	1727.78	31.25	1726.63	31.20	1728.11	19.35	1697.21	31.20	1728.11	19.35	1699.78	26.80	1722.13	30.45	1718.90
14-Jan-94	40.00	1748.39	32.00	1725.94					31.20	1728.11	19.35	1697.21	31.20	1728.11	19.35	1699.78	26.80	1722.13	30.45	1718.90
22-Feb-94	39.65	1748.74	32.10	1725.84	31.45	1727.83	31.00	1726.88	31.00	1728.31	19.60	1696.91	31.00	1728.31	19.60	1699.78	26.80	1722.13	30.45	1718.90
21-Mar-94	39.70	1748.69	32.40	1725.54					31.00	1728.31	19.75	1696.76	31.00	1728.31	19.75	1699.78	26.80	1722.13	30.45	1718.90
26-Apr-94	39.35	1749.04	32.40	1725.54					30.70	1728.61	19.80	1696.71	30.70	1728.61	19.80	1699.78	26.80	1722.13	30.45	1718.90
19-May-94	39.55	1748.84	32.50	1725.44	31.00	1728.28	30.65	1727.23	30.45	1728.86	20.00	1696.51	30.45	1728.86	20.00	1699.78	26.80	1722.13	30.45	1718.90
23-Jun-94	39.70	1748.69	32.10	1725.84					30.95	1728.36	19.95	1696.56	30.95	1728.36	19.95	1699.78	26.80	1722.13	30.45	1718.90
20-Jul-94	39.30	1749.09	32.80	1725.14					31.05	1728.26	20.00	1696.51	31.05	1728.26	20.00	1699.78	26.80	1722.13	30.45	1718.90
23-Aug-94	39.00	1749.39	32.80	1725.14	31.10	1728.18	30.65	1727.23	31.15	1728.16	20.20	1696.31	31.15	1728.16	20.20	1699.78	26.80	1722.13	30.45	1718.90
30-Sep-94	38.55	1749.84	32.90	1725.04					31.00	1728.31	20.30	1696.21	31.00	1728.31	20.30	1699.78	26.80	1722.13	30.45	1718.90
18-Oct-94	38.00	1750.39	32.00	1725.94					31.00	1728.31	20.40	1696.11	31.00	1728.31	20.40	1699.78	26.80	1722.13	30.45	1718.90
16-Nov-94	37.95	1750.44			31.67	1727.61	31.10	1726.78	30.95	1728.36	20.35	1696.16	30.95	1728.36	20.35	1699.78	26.80	1722.13	30.45	1718.90
02-Dec-94	37.40	1750.99	31.75	1726.19					30.30	1729.51	20.20	1696.31	30.30	1729.51	20.20	1699.78	26.80	1722.13	30.45	1718.90
27-Jan-95	36.30	1752.09	32.50	1725.44					29.80	1729.51	20.00	1696.51	29.80	1729.51	20.00	1699.78	26.80	1722.13	30.45	1718.90
16-Feb-95	36.30	1752.09	32.60	1725.34					29.90	1729.41	19.15	1697.36	29.90	1729.41	19.15	1699.78	26.80	1722.13	30.45	1718.90
22-Mar-95	36.50	1751.89	32.60	1725.34	30.70	1728.58	30.60	1727.28	29.80	1729.51	20.25	1696.26	29.80	1729.51	20.25	1699.78	26.80	1722.13	30.45	1718.90
25-Apr-95	33.60	1754.79	32.60	1725.34					29.75	1729.56	20.30	1696.21	29.75	1729.56	20.30	1699.78	26.80	1722.13	30.45	1718.90
18-May-95	33.60	1754.79	32.60	1725.34					29.85	1729.46	20.30	1696.21	29.85	1729.46	20.30	1699.78	26.80	1722.13	30.45	1718.90
29-Jun-95	37.75	1750.64	31.30	1726.64	31.00	1728.28	30.70	1727.18	29.85	1729.46	20.30	1696.21	29.85	1729.46	20.30	1699.78	26.80	1722.13	30.45	1718.90

KERR-McGEE CHEMICAL CORPORATION  
HENDERSON, NEVADA FACILITY  
GROUNDWATER ELEVATIONS

TOC-->	M-56 1749.60 DTW ELEV.	M-57 1752.29 DTW ELEV.	M-58 1749.25 DTW ELEV.	M-59 1743.01 DTW ELEV.	M-60 1750.13 DTW ELEV.	M-61 1745.55 DTW ELEV.	M-62 1752.92 DTW ELEV.	M-63 1750.59 DTW ELEV.	M-64 1749.76 DTW ELEV.	M-65 1752.88 DTW ELEV.
16-Sep-92	30.90 1718.70	30.45 1721.84	28.90 1720.35	22.45 1720.56	30.00 1720.13	24.30 1721.25	30.00 1722.92	27.60 1722.99	28.85 1720.91	33.25 1719.63
01-Dec-92	31.30 1718.30	30.80 1721.49	29.15 1720.10	22.60 1720.41	30.30 1719.83	24.40 1721.15	30.35 1722.57	28.00 1722.59	29.35 1720.41	33.50 1719.38
03-Mar-93	31.05 1718.55	30.40 1721.89	28.65 1720.60	22.10 1720.91	29.85 1720.28	23.70 1721.85	29.90 1723.02	27.50 1723.09	29.15 1720.61	33.25 1719.63
01-Jun-93	29.91 1719.69	29.52 1722.77	28.81 1720.44	21.96 1721.05	28.67 1721.46	23.39 1722.16	28.34 1724.58	27.51 1723.08	28.71 1721.05	32.00 1720.88
28-Jul-93										
31-Aug-93										
23-Sep-93	30.60 1719.00	29.10 1723.19	29.35 1719.90	22.50 1720.51	29.25 1720.88	24.05 1721.50	28.10 1724.82	27.10 1723.49	29.40 1720.56	32.45 1720.43
27-Oct-93										
18-Nov-93										
15-Dec-93	30.65 1718.95	30.00 1722.29	29.45 1719.80	22.60 1720.41	29.40 1720.73	24.10 1721.45	28.60 1724.32	27.85 1722.74	29.70 1720.06	32.50 1720.38
14-Jan-94										
22-Feb-94										
21-Mar-94	30.80 1718.80	30.50 1721.79	29.50 1719.75	22.75 1720.26	29.30 1720.83	24.30 1721.25	29.30 1723.62	28.10 1722.49	29.70 1720.06	32.45 1720.43
26-Apr-94										
19-May-94										
23-Jun-94	30.65 1718.95	30.50 1721.79	29.35 1719.90	22.55 1720.46	29.10 1721.03	24.00 1721.55	29.20 1723.72	28.00 1722.59	29.60 1720.16	32.20 1720.68
20-Jul-94										
23-Aug-94										
30-Sep-94	30.60 1719.00	30.10 1722.19	29.40 1719.85	22.55 1720.46	29.20 1720.93	24.10 1721.45	29.30 1723.62	28.00 1722.59	29.60 1720.16	32.30 1720.58
18-Oct-94										
16-Nov-94										
02-Dec-94	30.75 1718.85	30.10 1722.19	30.00 1719.25	22.90 1720.11	29.30 1720.83	24.10 1721.45	29.00 1723.92	27.90 1722.69	30.10 1719.66	32.30 1720.58
27-Jan-95										
16-Feb-95										
22-Mar-95	30.30 1719.30	29.80 1722.49	29.40 1719.85	22.45 1720.56	28.90 1721.23	23.80 1721.75	28.50 1724.42	27.40 1723.19	29.00 1720.76	32.00 1720.88
25-Apr-95										
18-May-95										
29-Jun-95	29.95 1719.65	29.90 1722.39	29.30 1719.95	22.55 1720.66	28.70 1721.43	23.80 1721.75	28.65 1724.27	27.30 1723.29	28.90 1720.86	32.00 1720.88

KERR-McGEE CHEMICAL CORPORATION  
HENDERSON, NEVADA FACILITY  
GROUNDWATER ELEVATIONS

TOC ->	M-66 DTW ELEV.	M-67 DTW ELEV.	M-68 DTW ELEV.	M-69 DTW ELEV.	M-70 DTW ELEV.	M-71 DTW ELEV.	M-72 DTW ELEV.	M-73 DTW ELEV.	M-74 DTW ELEV.	M-78 DTW ELEV.										
16-Sep-92	30.00	1722.33	22.00	1722.98	23.70	1723.74	29.60	1719.17	27.55	1719.41	30.00	1715.88	26.70	1718.59	21.00	1719.05	23.70	1719.72	33.15	1717.86
01-Dec-92	30.10	1722.23	22.15	1722.83	23.70	1723.74	30.20	1718.57	28.40	1718.56	30.60	1715.28	27.00	1718.29	21.20	1718.85	23.70	1719.72	33.85	1717.16
28-Jan-93			22.10	1722.88	23.65	1723.79							27.35	1717.94						
19-Feb-93			21.50	1723.48	22.60	1724.84							26.55	1718.74						
08-Mar-93	29.80	1722.53	21.60	1723.38	22.90	1724.54	28.80	1719.97	28.65	1718.31	30.35	1715.53	26.50	1718.79	21.00	1719.05	22.95	1720.47	33.45	1717.56
29-Apr-93			22.00	1722.98	23.55	1723.89							26.90	1718.39						
28-May-93			22.00	1722.98	23.75	1723.69							26.70	1718.59						
01-Jun-93	30.12	1722.21	20.70	1724.28	23.58	1723.86	27.49	1721.28	26.34	1720.62	29.20	1716.68	25.72	1719.57	20.07	1719.98	22.52	1720.90	30.33	1720.68
28-Jul-93			20.85	1724.13	23.00	1724.44							26.90	1718.39	19.95	1720.10				
31-Aug-93			21.10	1723.88	24.00	1723.44							26.10	1719.19	20.30	1719.75				
23-Sep-93	30.65	1721.68	21.15	1723.83	23.20	1724.24	26.35	1722.42	27.95	1719.01	30.00	1715.88	26.30	1718.99	20.40	1719.65	23.15	1720.27	34.30	1716.71
27-Oct-93			21.40	1723.58	23.80	1723.64							26.30	1718.99	20.60	1719.45				
18-Nov-93			22.65	1722.33	23.55	1723.89							30.20	1715.68	20.60	1719.45				
15-Dec-93	30.80	1721.53	21.40	1723.58	23.50	1723.94	28.70	1720.07	28.10	1718.86	30.40	1715.48	26.35	1718.94	20.75	1719.30	24.40	1719.02	34.40	1716.61
14-Jan-94			21.50	1723.48	23.60	1723.84							30.45	1715.43	20.80	1719.25				
22-Feb-94			21.45	1723.53	23.70	1723.74							30.70	1715.18	20.60	1719.25				
21-Mar-94	30.70	1721.63	21.40	1723.58	23.30	1724.14	29.45	1719.32	28.50	1718.46	30.50	1715.38	26.60	1718.69	20.80	1719.25	23.50	1719.92	34.70	1716.31
26-Apr-94			21.40	1723.58	23.50	1723.94							30.35	1715.53	20.85	1719.20				
19-May-94	30.40	1721.93	21.35	1723.63	23.50	1723.94	29.70	1719.07	28.70	1718.26	30.40	1715.48	26.40	1718.89	20.80	1719.25	23.45	1719.97	34.40	1716.61
23-Jun-94			21.15	1723.83	23.45	1723.94							31.55	1714.33	20.95	1719.10				
20-Jul-94			21.40	1723.58	23.65	1723.79							30.50	1715.38	20.80	1719.05				
23-Aug-94	30.50	1721.83	21.70	1723.28	23.75	1723.69	29.70	1719.07	28.70	1718.26	31.10	1714.78	27.40	1717.89	21.10	1718.95	23.50	1719.92	34.60	1716.41
30-Sep-94			21.55	1723.43	23.65	1723.79							30.50	1715.38	21.00	1719.05				
18-Oct-94			21.60	1723.38	23.55	1723.89							31.40	1714.48	21.20	1718.85				
16-Nov-94			21.50	1723.48	23.65	1723.79	27.95	1720.82	28.80	1718.16	31.50	1714.38	27.05	1718.24	21.20	1718.85	23.75	1719.67	35.40	1715.61
02-Dec-94	30.80	1721.53	21.50	1723.48	23.65	1723.79							31.35	1714.53	21.00	1719.05				
27-Jan-95			21.05	1723.93	22.65	1724.79							30.90	1714.98	20.85	1719.20				
16-Feb-95			21.00	1723.98	22.90	1724.54							30.00	1715.88	20.50	1719.55	23.25	1720.17	34.00	1717.01
22-Mar-95	30.10	1722.23	20.90	1724.08	23.00	1724.44	28.55	1720.22	26.80	1720.16	30.00	1715.88	26.40	1718.89	20.70	1719.35				
25-Apr-95			20.75	1724.23	22.70	1724.74							29.15	1716.73	20.60	1719.45				
18-May-95			20.80	1724.18	22.80	1724.64							29.75	1716.13	20.60	1719.45				
29-Jun-95	30.00	1722.33	20.85	1724.13	22.90	1724.54	27.35	1721.42	26.60	1720.36	29.40	1716.48	26.25	1719.04	20.70	1719.35	23.20	1720.22	33.80	1717.21

KERR-McGEE CHEMICAL CORPORATION  
HENDERSON, NEVADA FACILITY  
GROUNDWATER ELEVATIONS

TOC-->	M-79 1742.93 DTW ELEV.	M-80 1745.73 DTW ELEV.	M-81 1743.73 DTW ELEV.	M-82 1739.38 DTW ELEV.	M-83 1740.83 DTW ELEV.	M-84 1739.63 DTW ELEV.	M-85 1741.19 DTW ELEV.	M-86 1742.73 DTW ELEV.	M-87 1742.27 DTW ELEV.	M-88 1737.99 DTW ELEV.								
16-Sep-92	24.45	1718.48	28.00	1715.73	21.90	1717.48	22.90	1717.93	25.00	1714.63	26.70	1714.49	27.75	1714.98	26.70	1715.57	22.65	1715.34
01-Dec-92	24.10	1718.83	28.45	1715.28	21.60	1717.78	23.90	1716.93	24.85	1714.78	27.20	1713.99	28.00	1714.73	27.00	1715.27	22.85	1715.14
28-Jan-93													28.60	1714.13				
19-Feb-93	22.45	1720.48	28.50	1715.23	21.80	1717.58	22.55	1718.28	24.90	1714.73	27.00	1714.19	27.50	1715.23	26.50	1715.77	22.20	1715.79
03-Mar-93													28.10	1714.63				
29-Apr-93													26.95	1715.78				
28-May-93	24.27	1718.66	27.60	1716.13	21.59	1717.79	23.36	1717.47	24.61	1715.02	26.07	1715.12	27.10	1715.63	26.67	1715.60	22.12	1715.87
01-Jun-93									25.25	1714.38			28.00	1714.73			22.10	1715.89
28-Jul-93									24.75	1714.88			27.60	1715.13			22.45	1715.54
31-Aug-93	24.25	1718.68	28.00	1715.73	21.50	1717.88	28.40	1712.43	25.00	1714.63	27.45	1713.74	27.80	1714.93	27.55	1714.72	22.55	1715.44
23-Sep-93									25.45	1714.18			28.20	1714.53			22.85	1715.14
27-Oct-93									25.85	1713.78			27.00	1715.73			22.85	1715.14
18-Nov-93	25.55	1717.38	29.00	1714.73	22.80	1716.58	25.35	1715.48	25.50	1714.13	27.50	1713.69	27.80	1714.93	27.60	1714.67	23.00	1714.99
15-Dec-93									25.68	1713.95								
14-Jan-94									25.85	1713.78								
22-Feb-94	26.20	1716.73	29.35	1714.38	23.35	1716.03	25.90	1714.93	25.80	1713.83	28.00	1713.19	28.50	1714.23	28.00	1714.27	23.25	1714.74
21-Mar-94									25.70	1713.93								
26-Apr-94									25.25	1714.38								
19-May-94									25.40	1714.23								
23-Jun-94	26.60	1716.33	29.00	1714.73	23.75	1715.63	26.20	1714.63	25.50	1714.13	27.55	1713.64	28.20	1714.53	28.00	1714.27	23.40	1714.59
20-Jul-94									25.50	1714.08			28.10	1714.63			23.45	1714.54
23-Aug-94									25.55	1714.08			27.80	1714.93			23.45	1714.54
30-Sep-94	26.80	1716.13	29.50	1714.23	23.90	1715.48	26.60	1714.23	26.60	1713.03	27.80	1713.39	29.00	1713.73	28.00	1714.27	23.60	1714.39
18-Oct-94									26.90	1712.73			29.30	1713.43			23.70	1714.29
16-Nov-94	25.70	1717.23	out	1712.83	out	1715.68	26.15	1714.68	27.10	1712.53	29.10	1712.09	29.50	1713.23	28.60	1713.67	23.70	1714.29
02-Dec-94									26.90	1712.73			29.55	1713.18			23.75	1714.24
27-Jan-95									25.70	1713.93			29.50	1713.23			23.65	1714.34
16-Feb-95									26.10	1713.53			29.35	1713.38			23.55	1714.44
22-Mar-95	24.70	1718.23	out	1716.13	out	1716.83	24.00	1716.83	24.55	1715.08	27.70	1713.49	29.05	1713.68	28.30	1713.97	23.50	1714.49
25-Apr-95									24.30	1715.33			28.55	1714.18			23.30	1714.69
18-May-95									24.95	1714.68			28.60	1714.13			23.30	1714.69
29-Jun-95	21.75	1721.18	out	1716.28	out	1716.38	24.45	1716.38	24.20	1715.43	26.90	1714.29	28.50	1714.23	28.00	1714.27	23.30	1714.69

KERR-McGEE CHEMICAL CORPORATION  
 HENDERSON, NEVADA FACILITY  
 GROUNDWATER ELEVATIONS

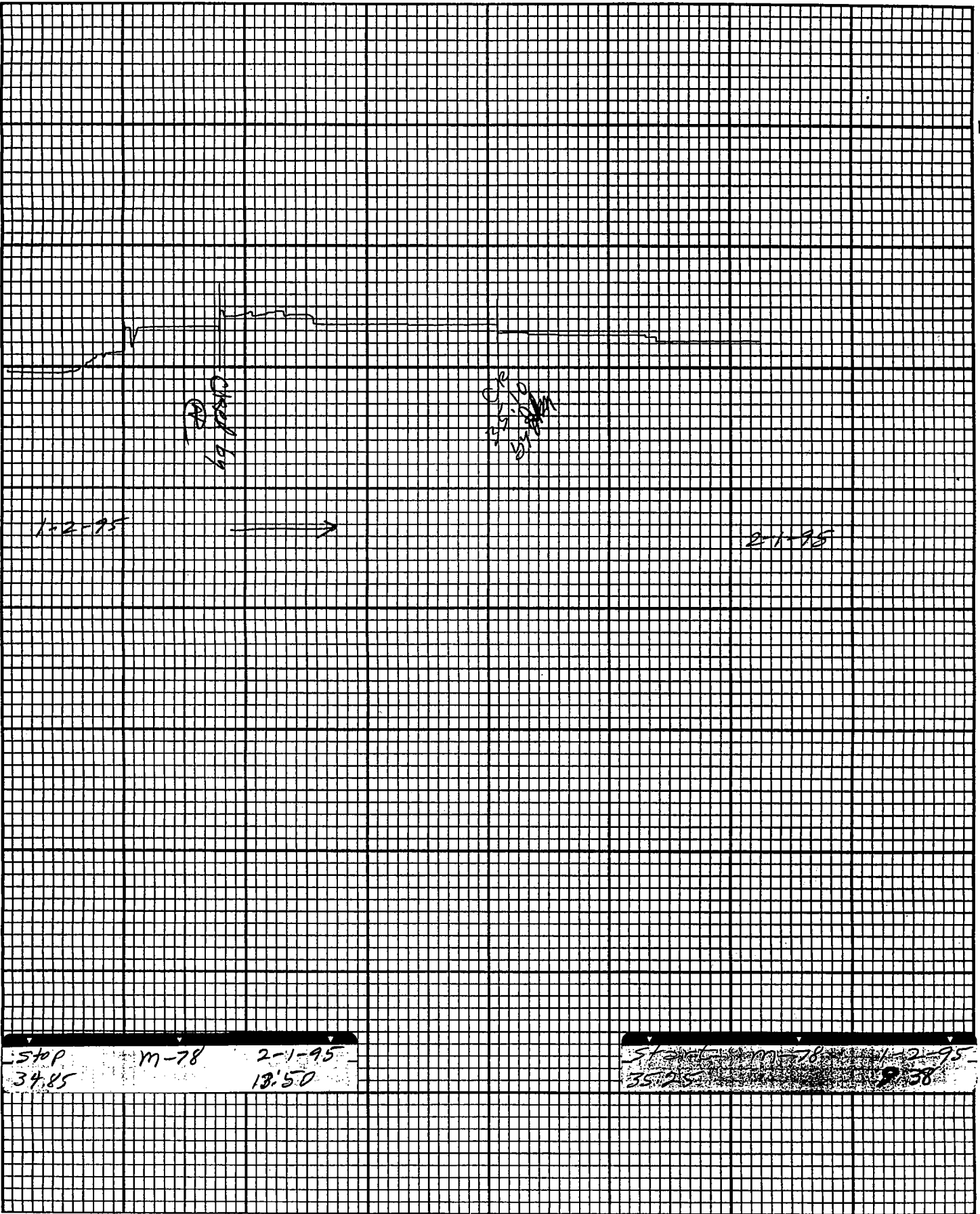
TOC-->	I-A		I-B		I-C		I-D		I-E		I-F		I-G		I-H	
	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.
16-Sep-92	41.00	1710.06	33.10	1717.59	32.85	1717.59	44.00	1706.54	38.00	1712.22	40.00	1707.58	41.00	1709.42	44.40	1706.67
01-Dec-92	41.00	1710.06	36.80	1713.89	37.20	1713.24	44.10	1706.44	43.80	1706.42	44.70	1702.88	38.80	1711.62	44.50	1706.57
28-Jan-93	42.00	1709.06	44.10	1706.59	43.20	1707.24	32.00	1718.54	40.00	1710.22	45.10	1702.48	42.00	1708.42	44.55	1706.52
19-Feb-93	41.00	1710.06	37.80	1712.89	43.90	1706.54	44.00	1706.54	44.00	1706.22	45.00	1702.58	41.00	1709.42	32.90	1718.17
03-Mar-93	40.80	1710.26	35.10	1715.59	40.10	1710.34	42.00	1708.54	33.20	1717.02	44.20	1703.38	42.00	1708.42	44.60	1706.47
29-Apr-93	35.50	1715.56	32.80	1717.89	39.80	1710.64	36.00	1714.54	32.40	1717.82	45.00	1702.58	40.00	1710.42	42.00	1709.07
28-May-93	38.00	1713.06	33.00	1717.69	33.80	1716.64	38.00	1712.54	32.00	1718.22	44.40	1703.18	30.80	1719.62	36.90	1714.17
22-Jun-93	36.11	1714.95	33.62	1717.07	30.35	1720.09	44.10	1706.44	32.80	1717.42	44.72	1702.86	40.10	1710.32	35.25	1715.82
28-Jul-93	40.10	1710.96	38.60	1712.09	40.40	1710.04	44.10	1706.44	39.00	1711.22	40.70	1706.88	40.10	1710.32	38.50	1712.57
31-Aug-93	42.00	1709.06	44.10	1706.59	43.90	1706.54	44.10	1706.44	37.30	1712.92	45.00	1702.58	40.60	1709.82	45.00	1706.07
23-Sep-93	41.00	1710.06	44.00	1706.69	38.10	1712.34	44.20	1706.34	37.40	1712.82	45.15	1702.43	40.55	1709.87	42.80	1708.27
27-Oct-93	41.00	1710.06	43.60	1707.09	38.90	1711.54	44.10	1706.44	43.00	1707.22	45.00	1702.58	40.70	1709.72	38.00	1713.07
18-Nov-93	42.20	1708.86	43.30	1707.39	30.60	1719.84	44.10	1706.44	32.20	1718.02	45.00	1702.58	40.60	1709.82	44.00	1707.07
15-Dec-93	42.00	1709.06	44.00	1706.69	42.00	1708.44	44.30	1706.24	44.20	1706.02	45.00	1702.58	40.00	1710.42	43.00	1708.07
14-Jan-94	41.10	1709.96	44.00	1706.69	36.00	1714.44	44.10	1706.44	43.85	1706.37	45.00	1702.58	39.00	1711.42	39.30	1711.77
22-Feb-94	32.60	1718.46	42.80	1707.89	43.30	1707.14	44.10	1706.44	44.10	1706.12	45.00	1702.58	40.60	1709.82	41.40	1709.67
21-Mar-94	41.00	1710.06	43.00	1707.69	31.20	1719.24	44.10	1706.44	42.90	1707.32	44.00	1703.58	40.60	1709.82	31.70	1719.37
26-Apr-94	41.00	1710.06	43.80	1706.89	41.80	1708.64	44.20	1706.34	44.30	1705.92	45.00	1702.58	40.60	1709.82	31.80	1719.27
19-May-94	43.00	1708.06	44.15	1706.54	39.70	1716.74	44.10	1706.44	45.15	1705.07	45.05	1702.53	40.55	1709.87	39.70	1711.37
29-Jun-94	42.00	1709.06	42.00	1708.69	36.00	1714.44	44.00	1706.54	38.30	1711.92	45.00	1702.58	40.50	1709.92	31.75	1719.32
20-Jul-94	41.10	1709.96	40.30	1710.39	38.20	1712.24	44.10	1706.44	44.00	1706.22	44.90	1702.68	40.10	1710.32	33.10	1717.97
23-Aug-94	42.10	1708.96	43.60	1707.09	44.00	1706.44	44.15	1706.39	45.10	1705.12	45.00	1702.58	40.55	1709.87	39.50	1711.57
30-Sep-94	41.00	1710.06	43.00	1707.69	33.40	1717.04	32.70	1717.84	34.60	1715.62	45.00	1702.58	40.50	1709.92	32.30	1718.77
18-Oct-94	42.00	1709.06	43.00	1707.69	32.40	1718.04	36.00	1714.54	40.00	1710.22	45.00	1702.58	41.90	1708.52	32.20	1718.87
16-Nov-94	41.00	1710.06	44.00	1706.69	32.70	1717.74	42.50	1708.04	40.00	1710.22	44.60	1702.98	39.00	1711.42	43.00	1708.07
02-Dec-94	42.00	1709.06	44.20	1706.49	32.00	1718.44	44.10	1706.44	38.70	1711.52	45.00	1702.58	40.50	1709.92	40.55	1710.52
17-Jan-95	42.00	1709.06	44.20	1706.59	36.00	1714.44	44.15	1706.39	43.40	1706.82	35.60	1711.98	42.00	1708.42	39.40	1711.67
16-Feb-95	42.00	1709.06	44.10	1706.59	35.40	1715.04	44.15	1706.39	42.50	1707.72	44.80	1702.78	39.90	1710.52	38.50	1712.57
22-Mar-95	42.00	1709.06	44.00	1706.69	43.80	1706.64	44.10	1706.44	40.40	1709.82	40.00	1707.58	40.80	1709.62	41.50	1709.57
25-Apr-95	42.00	1709.06	43.00	1707.69	31.00	1719.44	44.10	1706.44	33.00	1717.22	30.80	1716.78	30.60	1719.82	39.70	1711.37
18-May-95	42.00	1709.06	43.10	1707.59	43.90	1706.54	44.10	1706.44	32.90	1717.32	44.25	1703.33	30.85	1719.57	44.50	1706.57
29-Jun-95	40.50	1710.56	30.00	1720.69	43.10	1707.34	44.10	1706.44	32.40	1717.82	44.00	1703.58	30.85	1719.57	39.25	1711.82

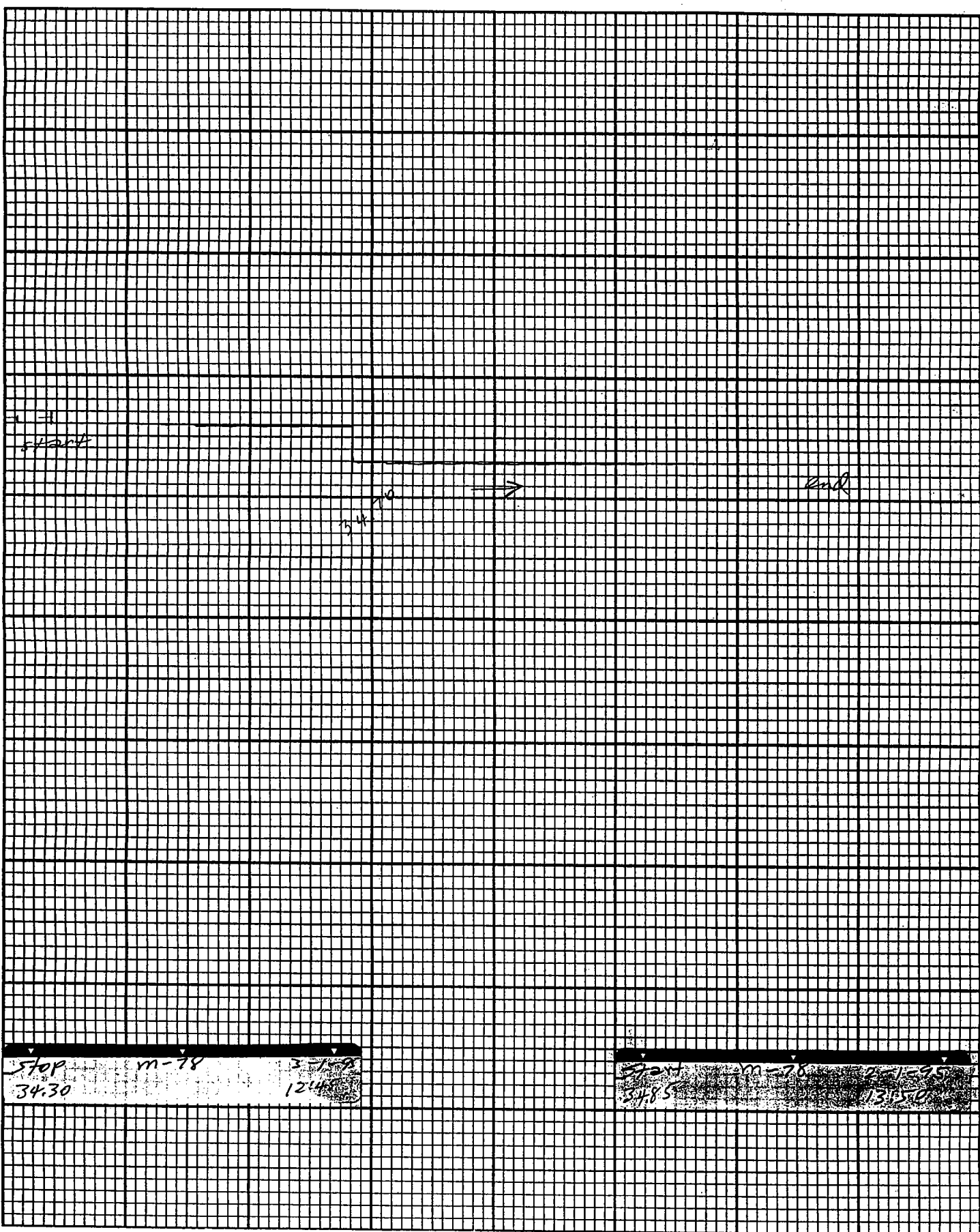
KERR-McGEE CHEMICAL CORPORATION  
 HENDERSON, NEVADA FACILITY

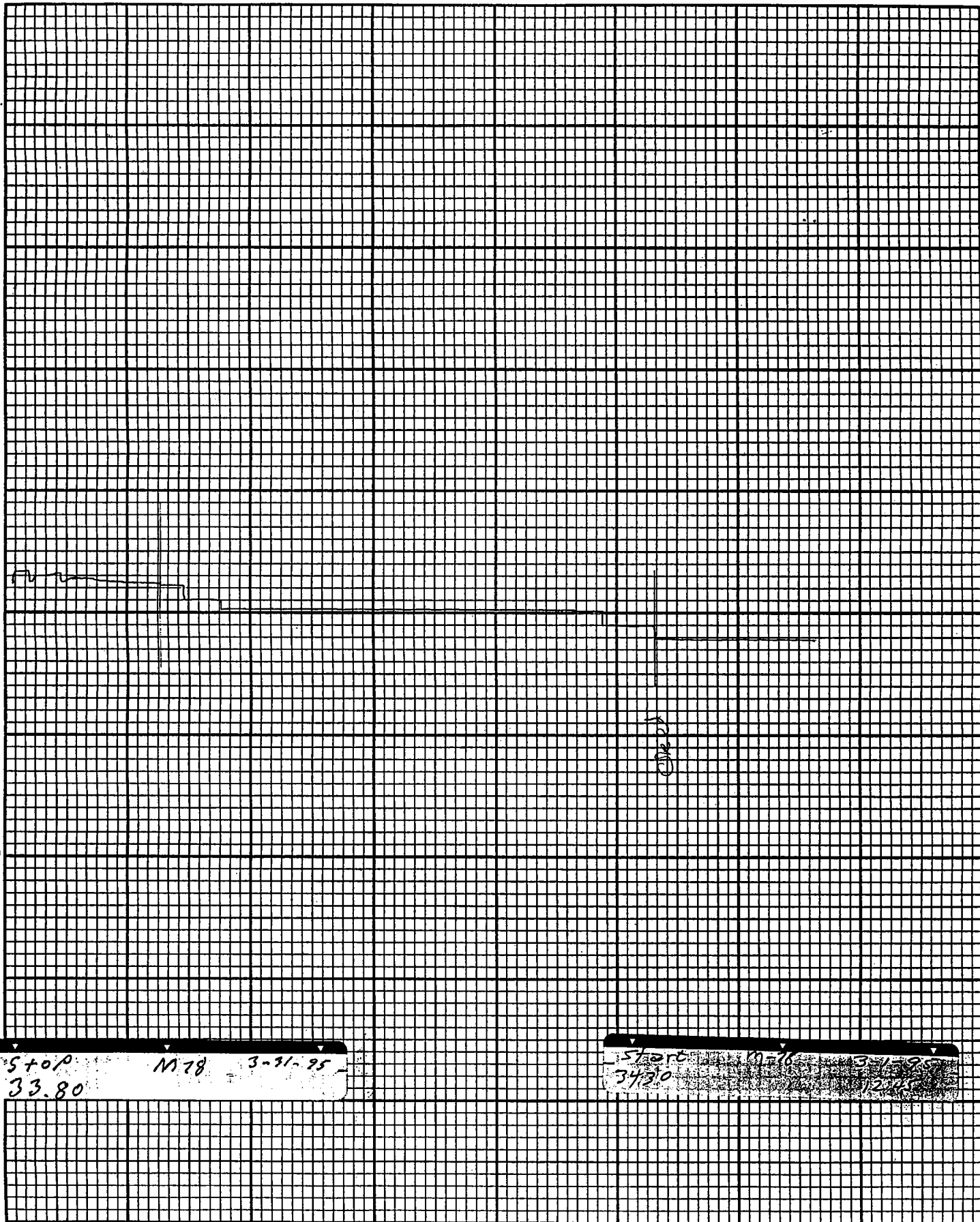
GROUNDWATER ELEVATIONS

TOC-->	I-I		I-J		I-K		I-L		I-M		I-N		I-O	
	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.
16-Sep-92	28.00	1715.56	40.00	1707.95	34.00	1709.97								
01-Dec-92	39.70	1703.66	38.90	1709.05	36.00	1707.97								
28-Jan-93	38.80	1704.56	42.00	1705.95	38.00	1705.97								
19-Feb-93	40.10	1703.26	38.90	1709.05	33.95	1710.02								
03-Mar-93	28.00	1715.56	37.75	1710.20	30.00	1713.97								
29-Apr-93	41.70	1701.66	40.40	1707.55	37.30	1706.67								
28-May-93	41.00	1702.56	42.10	1705.85	36.60	1707.37								
22-Jun-93	32.78	1710.58	33.60	1714.35	34.20	1709.77								
28-Jul-93	38.00	1705.36	36.00	1711.95	35.60	1708.37								
31-Aug-93	41.00	1702.36	42.00	1705.95	36.20	1707.77								
23-Sep-93	39.90	1703.46	41.20	1706.75	36.40	1707.57								
27-Oct-93	41.65	1701.71	42.00	1705.95	36.85	1707.12								
18-Nov-93	42.00	1701.36	42.00	1705.95	30.55	1713.42								
15-Dec-93	41.80	1701.56	42.00	1705.95	36.00	1707.97								
14-Jan-94	41.70	1701.66	42.00	1705.95	33.00	1710.97								
22-Feb-94	41.80	1701.56	41.80	1706.15	31.00	1712.97								
21-Mar-94	41.70	1701.66	42.00	1705.95	36.00	1707.97								
26-Apr-94	41.70	1701.66	42.20	1705.75	42.00	1701.97								
19-May-94	41.75	1701.61	41.95	1706.00	36.80	1707.17								
23-Jun-94	42.10	1701.26	40.10	1707.85	36.80	1707.17								
20-Jul-94	42.10	1701.26	42.00	1705.95	36.60	1707.37	30.35	1719.14	33.30	1717.42	31.20	1718.06	34.10	1716.56
23-Aug-94	41.70	1701.66	42.00	1705.95	36.80	1707.17	30.30	1719.19	36.20	1714.52	33.20	1716.06	41.50	1709.16
30-Sep-94	41.70	1701.66	41.00	1706.95	36.80	1707.17	39.00	1710.49	41.60	1709.12	38.00	1711.26	38.50	1712.16
18-Oct-94	40.00	1703.36	42.00	1705.95	36.80	1707.17	38.00	1711.49	41.40	1709.32	39.00	1710.26	31.40	1719.26
16-Nov-94	41.70	1701.66	40.00	1707.95	35.00	1708.97	38.70	1710.79	41.60	1709.12	38.00	1711.26	40.40	1710.26
02-Dec-94	41.80	1701.56	41.80	1706.15	36.00	1707.97	37.20	1712.29	41.60	1709.12	38.00	1711.26	35.00	1715.66
27-Jan-95	40.10	1703.26	33.90	1714.05	26.20	1717.77	39.20	1710.29	41.40	1709.32	38.50	1710.76	40.65	1710.01
16-Feb-95	41.00	1702.56	34.25	1713.70	36.90	1707.07	39.60	1709.89	41.60	1709.12	38.20	1711.06	31.00	1719.66
22-Mar-95	41.10	1702.26	32.00	1715.95	32.00	1711.97	34.65	1714.84	38.00	1712.72	38.20	1711.06	34.00	1716.66
25-Apr-95	41.00	1702.56	40.00	1707.95	34.00	1709.97	37.00	1712.49	41.60	1709.12	38.50	1710.96	32.80	1717.86
18-May-95	41.00	1702.56	37.95	1710.00	29.00	1714.97	34.00	1715.49	37.50	1713.22	37.50	1711.76	30.60	1720.06
29-Jun-95	40.40	1702.96	32.80	1715.15	31.40	1712.57	33.00	1716.49	31.60	1719.12	38.10	1711.16	38.50	1712.16

**APPENDIX B**  
**CONTINUOUS WATER LEVEL RECORDER CHARTS**





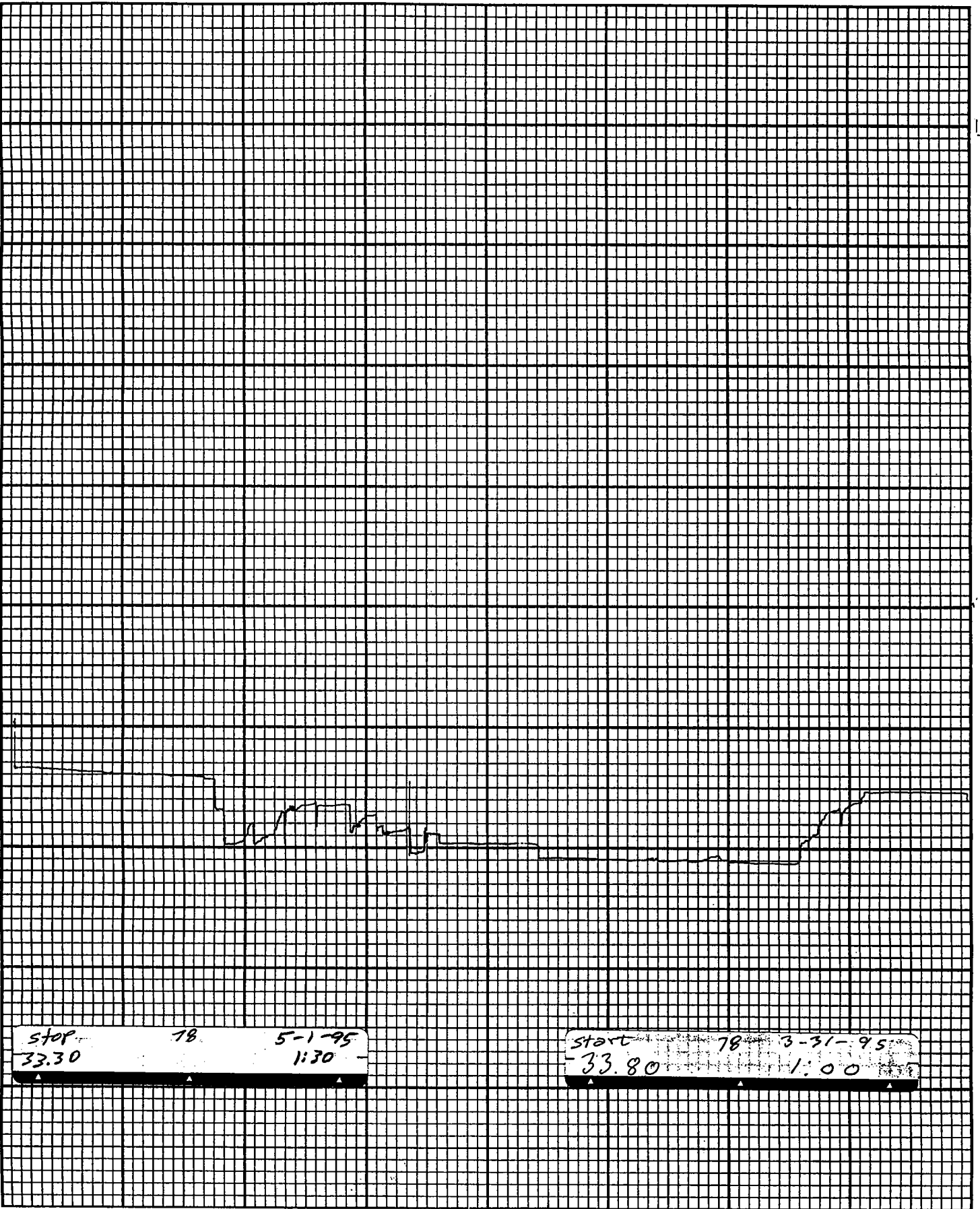


NO. 20

STOP M 18 3-31-95  
33.80

STOP M 18 3-31-95  
34.20 12.15

Stevens Water Level Recorder — Type F

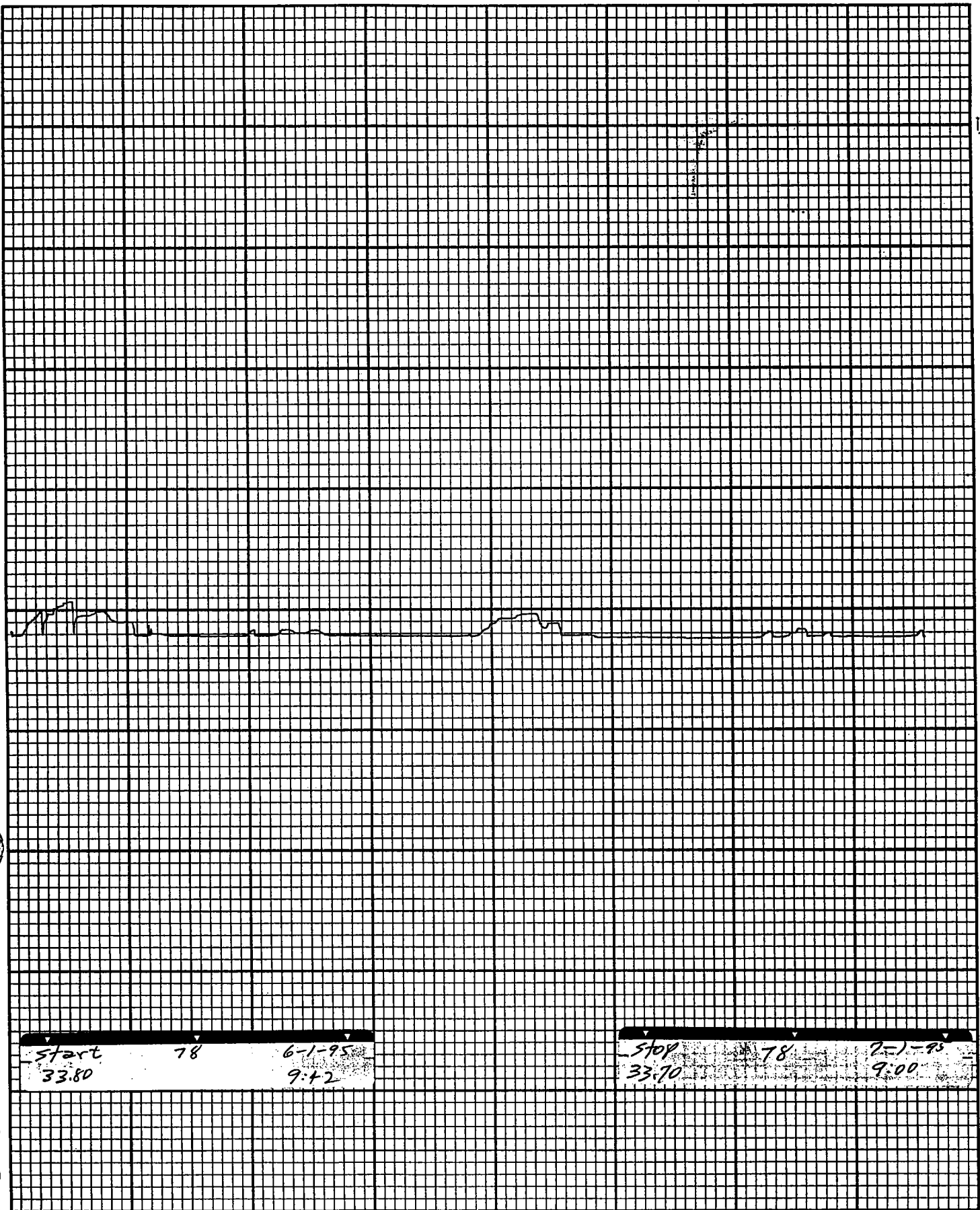


stop 18 5-1-95  
33.30 1:30

start 78 3-31-95  
33.80 1:00

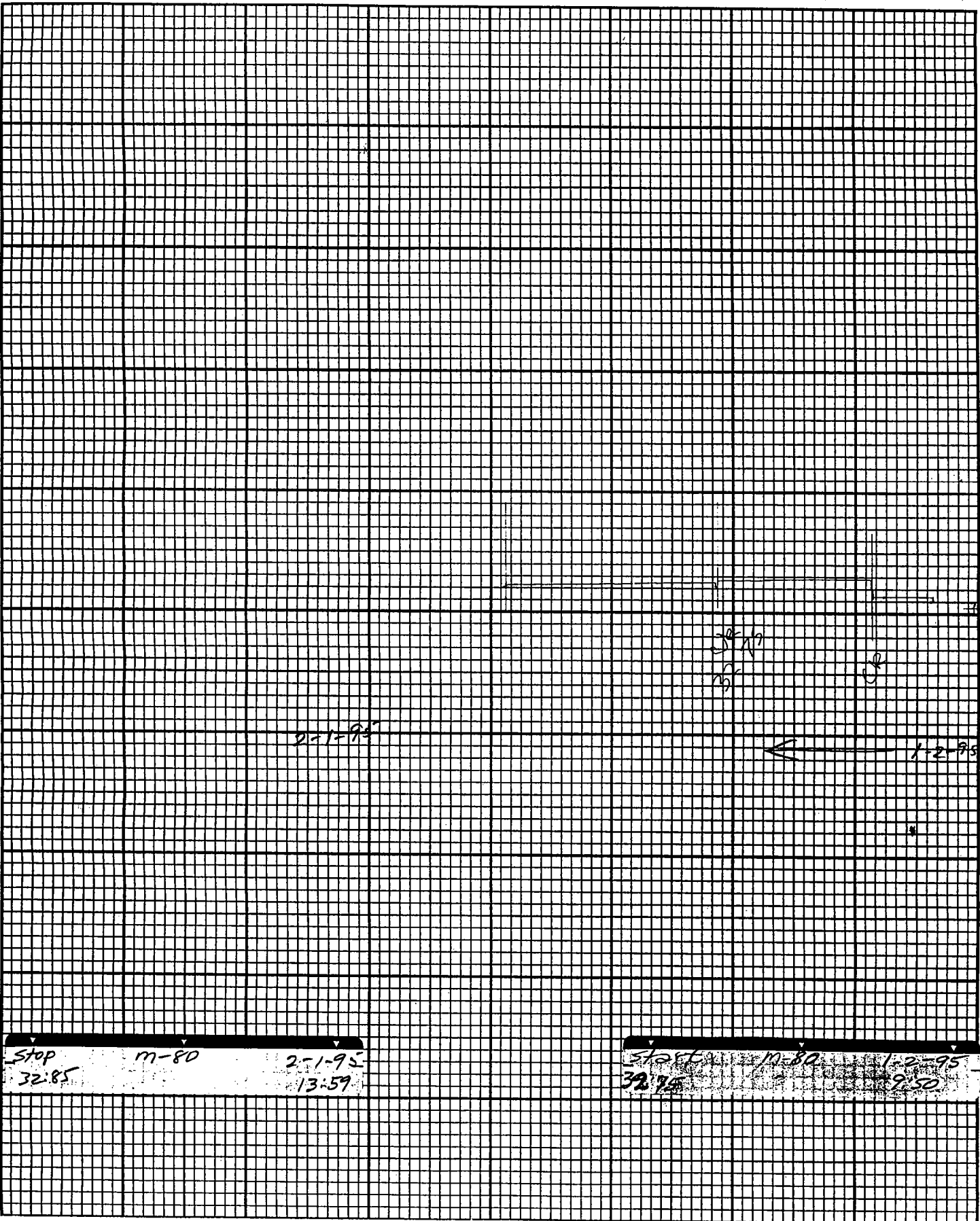
Chart F-1





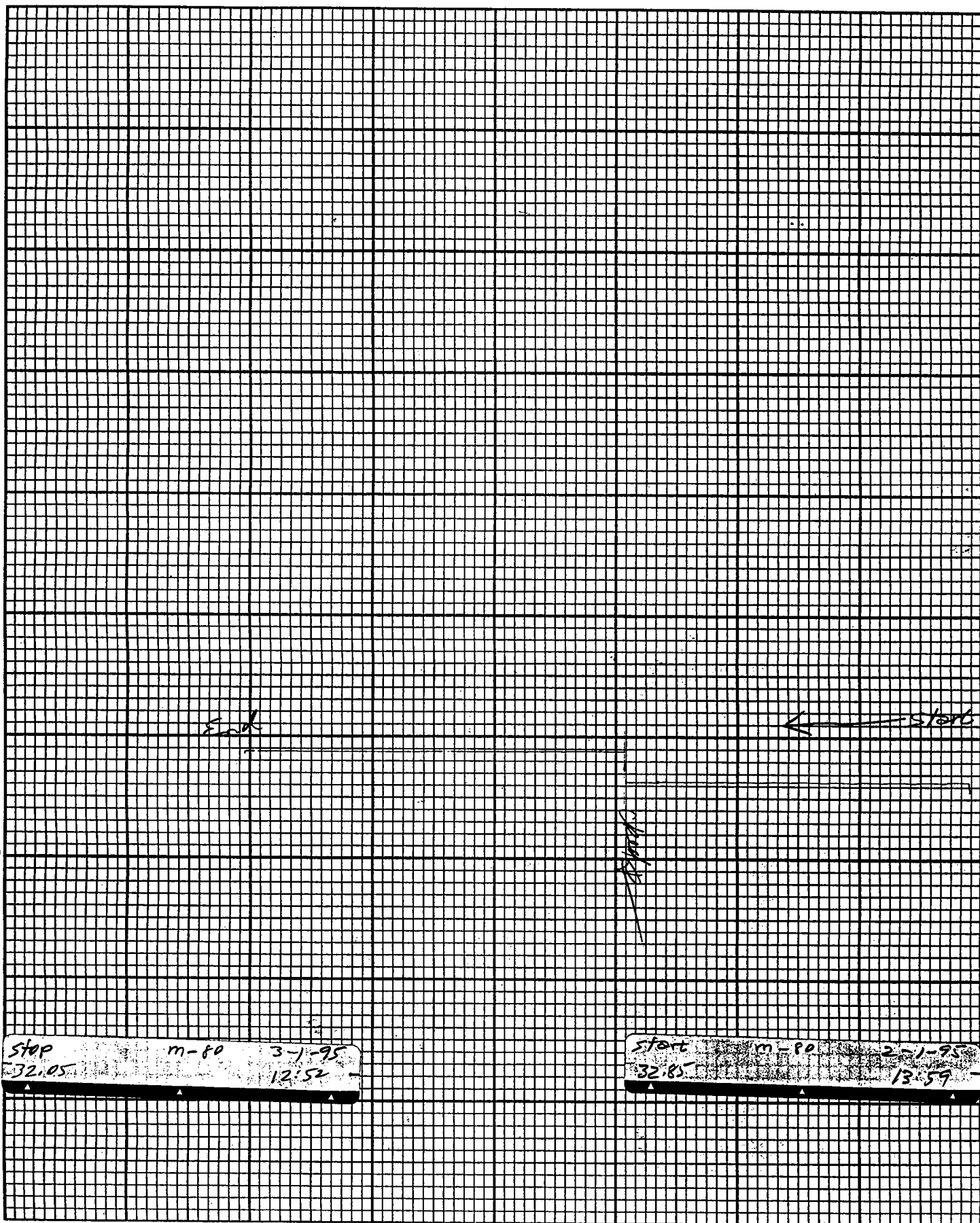
start 78 6-1-95  
33.80 9:42

stop 78 7-1-95  
33.70 9:00



STOP m-80 2-1-95  
32.85 13.59

START m-80 1-2-95  
39.75 9.50



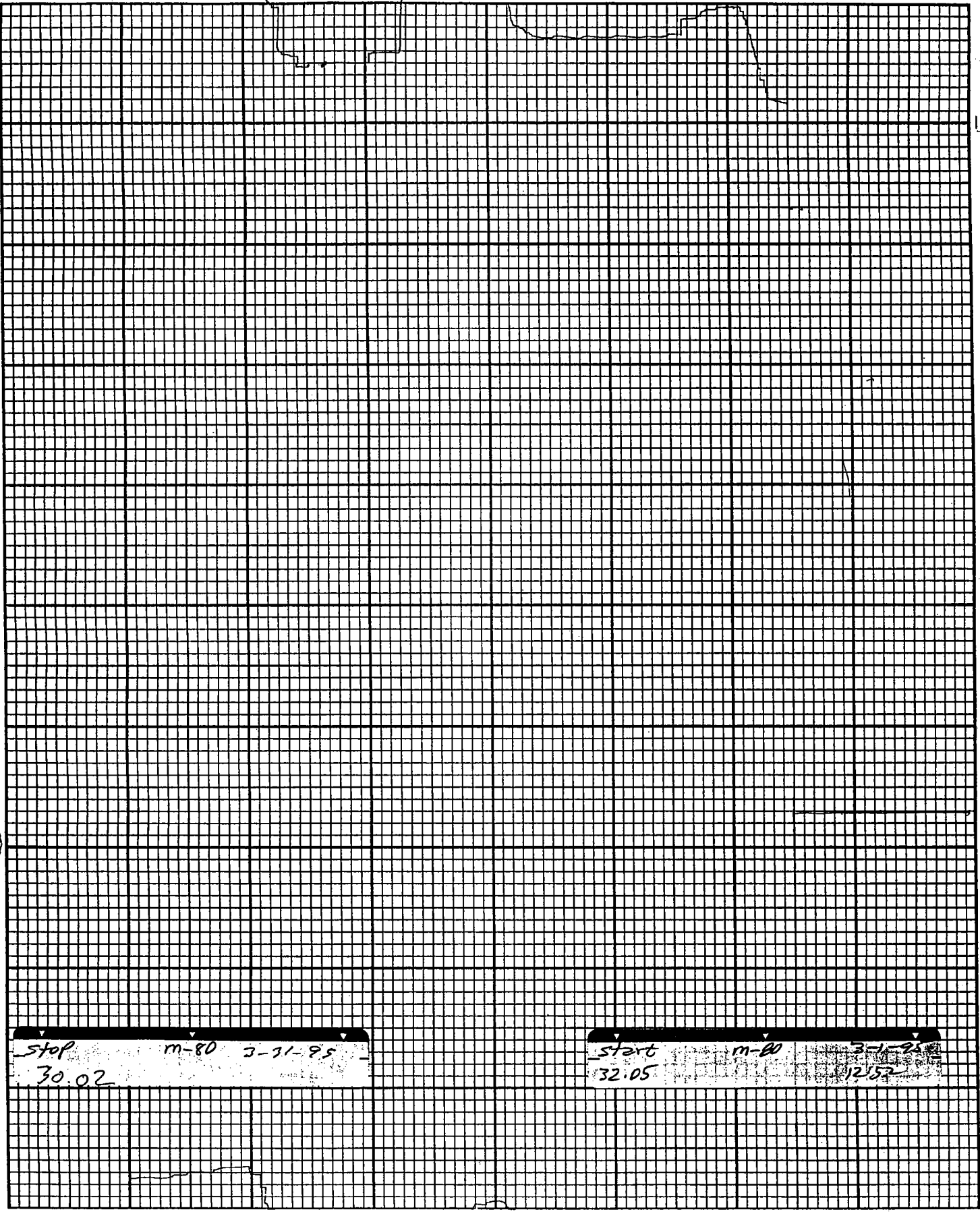
end

start

start

stop 32.05 m-80 3-1-95 12:52

start 32.85 m-80 2-1-95 13:59



stop m-80 3-31-85  
30.02

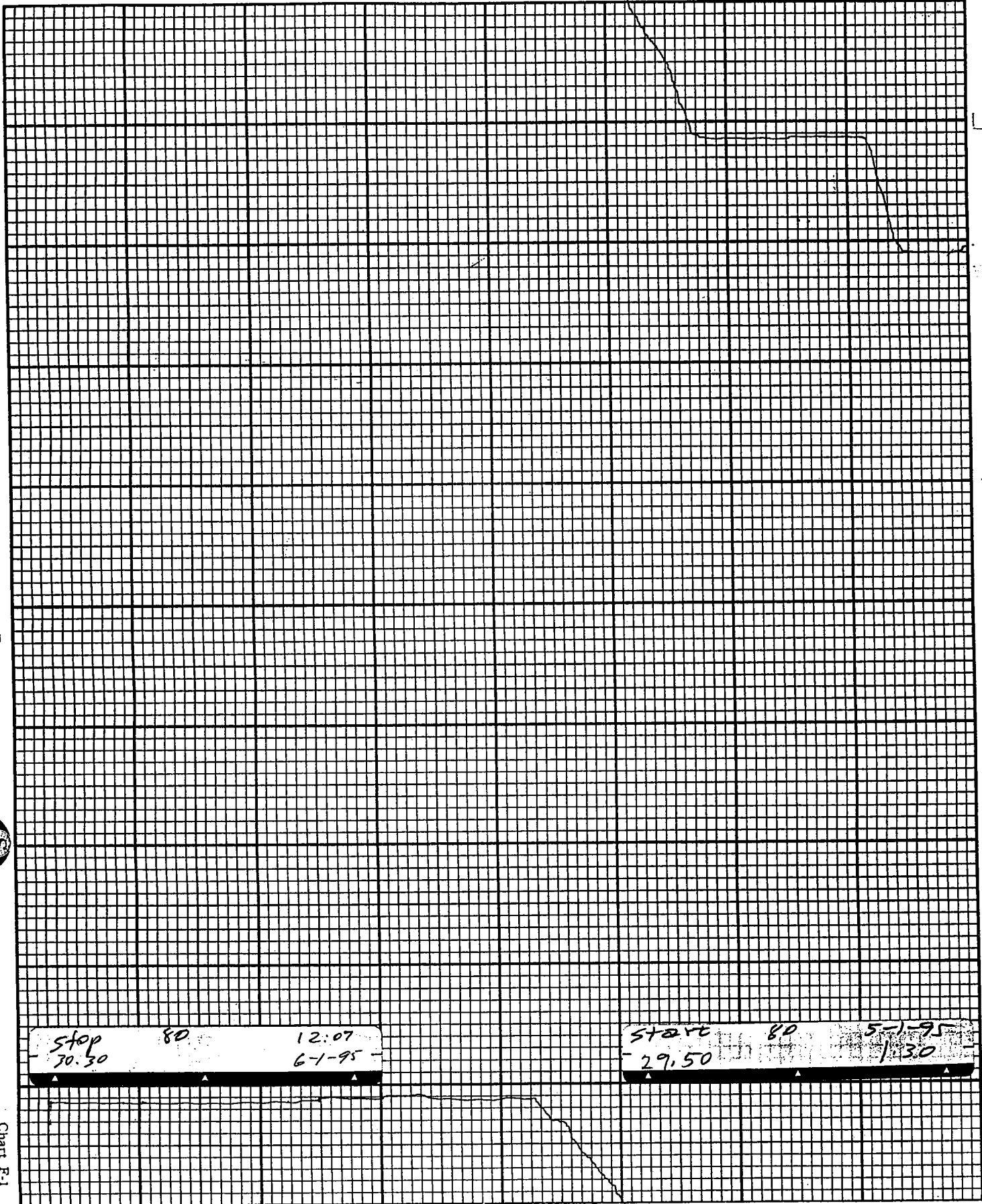
start m-80 3-31-85  
32.05





STOP 80  
29.50  
~~5-1-95~~  
5-1-95  
1:30

START 80  
30.02  
3-31-95  
1:00





STOP 30.0 80 7-1-95 9:00

START 30.30 80 6-1-95 12:09