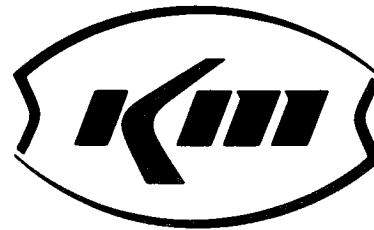


# **KERR-MCGEE CORPORATION**

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

January 27, 1992



Environmental Technology

JAN 30 '92

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

**JULY - DECEMBER 1991**

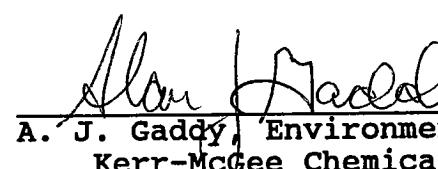
Submitted in Accordance with:

Chromium Mitigation Program  
Consent Order  
September 9, 1986

Prepared by:

Steven R. Lower  
Regional Hydrologist  
Environmental Technology Department  
Technology Division  
Kerr-McGee Corporation

**JANUARY 27, 1992**

  
A. J. Gaddy, Environmental Engineer  
Kerr-McGee Chemical Corporation  
Henderson, Nevada

## **TABLE OF CONTENTS**

INTRODUCTION . . . . .	1
GROUNDWATER SURFACE CONFIGURATION . . . . .	2
CONTINUOUS WATER LEVEL RECORDERS . . . . .	4
INTERCEPTOR SYSTEM PERFORMANCE . . . . .	5
IMPACT OF DISPOSAL SYSTEM ON DOWNGRADIENT WATER LEVELS . .	12
CHROMIUM TREATMENT SYSTEM EFFECTIVENESS . . . . .	13
ADDITIONAL WORK PERFORMED . . . . .	16
PROPOSED FUTURE ACTIVITIES . . . . .	18
CONCLUSIONS . . . . .	19
APPENDIX A- GROUNDWATER ELEVATIONS	
APPENDIX B- POTENTIOMETRIC SURFACE MAPS	
INTERCEPTOR AREA CROSS SECTIONS	
APPENDIX C- CONTINUOUS WATER LEVEL RECORDER CHARTS	
APPENDIX D- CHROMIUM CONCENTRATIONS IN	
APPENDIX J WELLS AND INTERCEPTOR WELLS	

## ***LIST OF FIGURES***

FIGURE 1- CONSENT ORDER MONITORING AREA . . . . .	3
FIGURE 2- LOCATION OF APPENDIX J WELLS . . . . .	6

## ***LIST OF TABLES***

TABLE 1- TOTAL CHROMIUM CONCENTRATIONS IN APPENDIX J WELLS. .	8
TABLE 2- TOTAL CHROMIUM CONCENTRATIONS IN SELECTED GROUNDWATER MONITOR WELLS . . . . .	10
TABLE 3- INTERCEPTOR WELL DISCHARGE RATES . . . . .	11
TABLE 4- GROUNDWATER TREATMENT ANALYSIS . . . . .	14

***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 July through December, 1991, 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 lists monthly groundwater elevations recorded since January 1988 in wells within the Consent Order area. Appendix B presents the water table configuration in two formats, potentiometric surface maps and cross-sections for the second half of 1991, reflecting quarterly groundwater level measurements.

Figure B-1 in Appendix B illustrates the potentiometric surface within the consent order monitoring area for the third quarter of 1991. Groundwater elevation data was recorded on September 25, 1991. Figure B-2 presents a cross-section of the groundwater interceptor line for the same date. Figures B-3 and B-4 present the same type maps for the fourth quarter of 1991, based on groundwater elevation data recorded December 11, 1991. 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 (Appendix A) 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. Figures B-1 through B-4 show that groundwater interception has been optimized with the existing groundwater interception system.



## **CONTINUOUS WATER LEVEL RECORDERS**

Wells M-78 and M-80 (Figure 1) are equipped with continuous water level recorders. Appendix C contains copies of the recorder charts generated during the second half of 1991. The current hydrologic configuration has stabilized throughout both the interception and recharge areas.

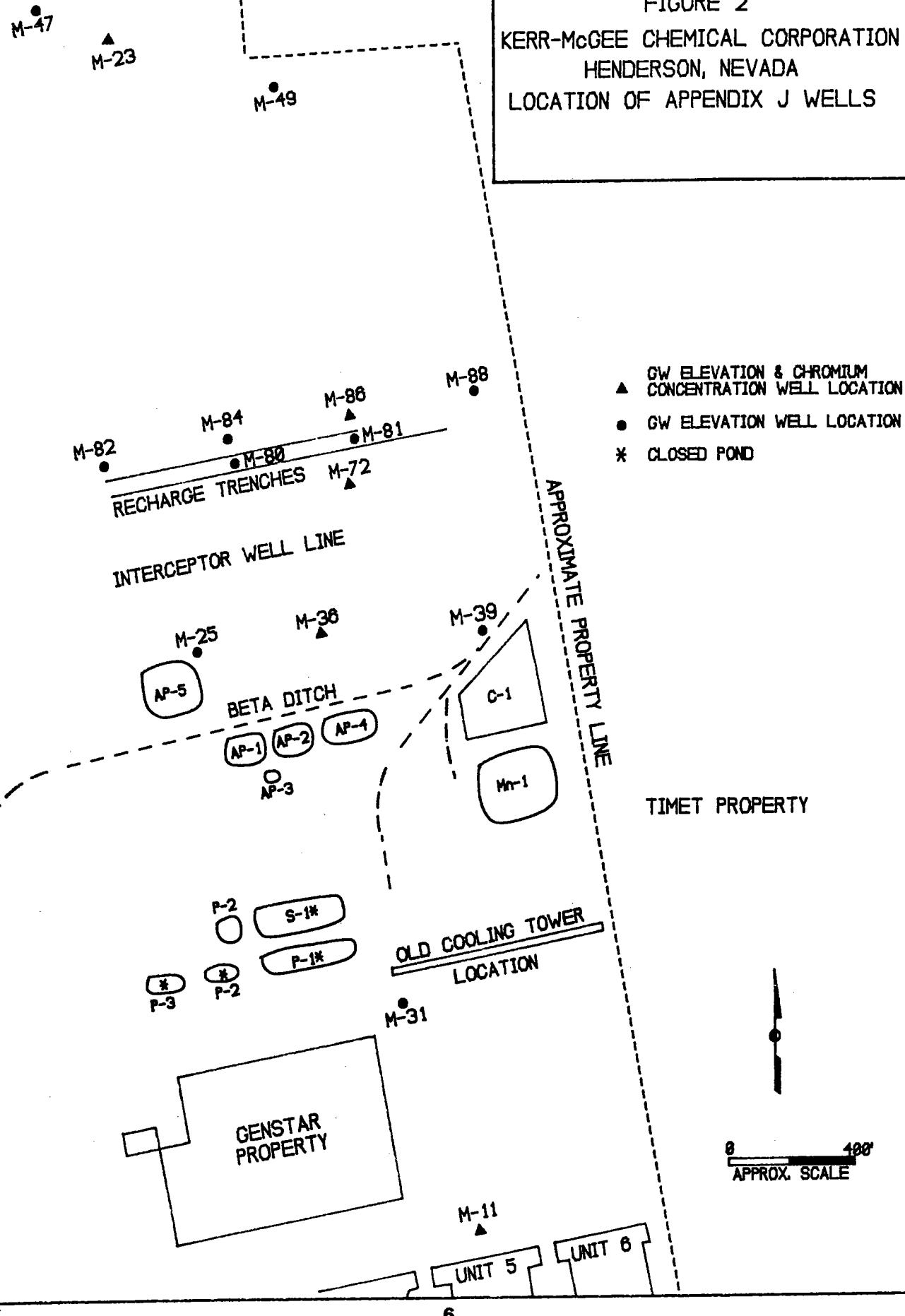
## **INTERCEPTOR SYSTEM PERFORMANCE**

Appendix B Figures B-1 through B-4 show the potentiometric surface configuration in the interceptor area during the second half of 1991. 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 B-1 and B-3) do not appear to show overlapping drawdown cones along the interceptor line, the cross-sections show that all 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. Groundwater flow through the interceptor line would be minimal and be rapidly diluted. The result is that the downgradient recharge meets the release concentration limits at the recharge line.

The effectiveness of the groundwater interception and treatment system in reducing chromium levels in the groundwater is demonstrated by review of chemical analyses of groundwater samples taken from downgradient monitor wells (M-86 and M-23). Concentrations have consistently decreased downgradient of the recharge area. KMCC is monitoring chromium concentrations in five wells specified in Appendix J of the Consent Order. These wells are located both up and downgradient from the plume interceptor

FIGURE 2  
KERR-MCGEE CHEMICAL CORPORATION  
HENDERSON, NEVADA  
LOCATION OF APPENDIX J WELLS



line (Figure 2). Hexavalent chromium concentrations in the five Appendix J wells sampled and analyzed for chromium are displayed in Table 1. Figure D-1 in Appendix D portrays this data graphically.

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 D-2 portrays historical chromium concentration for each interceptor well. 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, measured in December, 1990.

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 3, and is presented graphically as Figures D-3 and D-4. The M-70 series wells presented in Figure D-3 are located upgradient from the recharge trench. The M-80 series wells presented in Figure D-4 are located downgradient from the recharge trench. These data show that, with the exception of well M-86, the groundwater interception and treatment system is reducing chromium concentrations in groundwater to well below discharge criteria.

**TABLE 1**  
**TOTAL CHROMIUM CONCENTRATION (mg/l)**  
**IN APPENDIX J WELLS**

MONTH	M-11	M-36	WELL #		
			M-72	M-86	M-23
DEC 1987	46.00	0.47	1.20	0.83	5.40
JAN 1988	20.00	0.65	1.20	0.40	5.50
FEB 1988	17.00	0.75	1.10	0.35	5.40
MAR 1988	55.00	1.00	1.10	0.17	5.10
APR 1988	55.00	1.80	1.00	0.29	5.00
MAY 1988	44.00	2.20	1.00	0.21	5.40
JUN 1988	44.00	2.50	1.00	0.21	5.40
JUL 1988	43.00	2.80	0.89	0.18	5.00
AUG 1988	39.00	2.80	0.91	0.21	5.10
SEP 1988	46.00	2.60	0.82	0.30	5.00
OCT 1988	46.00	8.80	1.00	0.31	4.60
NOV 1988	40.00	12.40	1.20	0.20	4.80
DEC 1988	54.00	2.90	1.40	0.12	4.90
JAN 1989	6.70	2.90	1.40	0.31	4.60
FEB 1989	40.00	3.10	1.20	0.06	4.10
MAR 1989	42.00	3.80	1.40	0.19	3.80
APR 1989	43.00	3.50	1.40	0.42	3.30
MAY 1989	44.00	3.60	1.40	0.27	3.20
JUN 1989	35.00	3.90	1.16	0.20	2.70
JUL 1989	34.00	4.00	1.28	0.13	2.70
AUG 1989	36.00	4.20	1.40	0.38	2.70
SEP 1989	35.00	3.80	1.30	0.17	2.30
OCT 1989	35.00	4.30	1.60	0.12	2.40
NOV 1989	33.00	4.00	1.80	0.13	2.30
DEC 1989	35.00	4.40	1.90	0.14	2.10

M-11 is 2500 ft. upgradient of the interceptor line.

M-36 is 550 ft. upgradient of the interceptor line.

M-72 is between the interceptor line and the recharge trenches.

M-86 is immediately downgradient of the recharge trenches.

M-23 is 1350 ft. downgradient of the recharge trenches.

**TABLE 1**  
**TOTAL CHROMIUM CONCENTRATION (mg/l)**  
**IN APPENDIX J WELLS (cont.)**

MONTH	M-11	M-36	M-72	WELL #	
				M-86	M-23
JAN 1990	34.00	4.50	2.60	0.14	2.00
FEB 1990	32.00	4.90	2.90	0.10	2.00
MAR 1990	31.00	5.00	3.00	0.25	1.80
APR 1990	30.00	5.10	3.20	0.12	1.70
MAY 1990	34.00	4.90	3.50	0.07	1.60
JUN 1990	33.00	5.10	3.50	0.06	1.50
JUL 1990	34.00	5.50	4.30	0.04	1.50
AUG 1990	37.00	5.20	4.60	0.19	1.40
SEP 1990	36.00	5.50	5.00	0.21	1.40
OCT 1990	36.00	5.40	5.30	0.12	1.30
NOV 1990	38.00	5.40	5.30	0.14	1.40
DEC 1990	37.00	5.50	5.30	0.13	1.30
JAN 1991	41.00	5.50	5.70	0.13	1.20
FEB 1991	42.00	11.60	6.20	0.20	1.10
MAR 1991	44.00	5.70	6.20	0.27	1.10
APR 1991	43.00	5.80	6.40	0.29	1.10
MAY 1991	36.00	5.40	6.40	0.32	1.00
JUN 1991	36.00	5.40	6.40	0.32	1.00
JUL 1991	42.00	5.60	5.50	0.46	0.94
AUG 1991	43.00	6.00	6.20	0.92	1.10
SEP 1991	41.00	6.20	6.60	1.80	1.30
OCT 1991	40.00	6.00	6.40	2.60	1.30
NOV 1991	40.00	6.20	6.60	3.40	1.30
DEC 1991	38.00	6.00	7.00	3.30	1.30

M-11 is 2500 ft. upgradient of the interceptor line.

M-36 is 550 ft. upgradient of the interceptor line.

M-72 is between the interceptor line and the recharge trenches.

M-86 is immediately downgradient of the recharge trenches.

M-23 is 1350 ft. downgradient of the recharge trenches.

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

WELL #	SEP. 1987	DEC. 1988	DEC. 1989	DEC. 1990	DEC. 1991
I-A	2.0	3.0	3.0	2.1	2.5
I-B	2.0	3.0	2.9	2.0	2.0
I-C*	2.5	8.8	5.5	3.8	3.8
I-D*	20.0	18.0	8.0	1.2	1.0
I-E*	5.0	2.4	5.2	1.2	1.4
I-F*	30.0	26.0	13.4	12.6	11.7
I-G	7.0	5.0	4.0	3.1	1.1
I-H*	8.0	3.0	7.8	2.0	1.4
I-I	15.0	15.0	16.0	9.5	7.1
I-J	10.0	8.0	8.0	5.8	4.6
I-K	10.0	8.2	7.5	4.9	4.3
TOTAL	111.5	100.4	81.3	48.2	40.9

\* - Wells containing relatively high chromium concentrations (see Figure D-6 in Appendix D).

**TABLE 3**  
**TOTAL CHROMIUM CONCENTRATION (mg/l)**  
**IN SELECTED GROUNDWATER MONITOR WELLS**

DATE	M-71	M-73	M-84	M-88
MAY 1990	0.22	0.65	0.78	0.28
JUL 1990	0.18	0.64	0.78	0.28
AUG 1990	0.18	0.64	0.31	0.30
SEP 1990	0.19	0.64	0.21	0.33
OCT 1990	0.24	0.68	0.07	0.34
NOV 1990	0.24	0.69	0.14	0.36
DEC 1990	0.27	0.74	0.12	0.38
JAN 1991	0.30	0.67	0.09	0.32
FEB 1991	0.39	0.71	0.22	0.45
MAR 1991	0.44	0.71	0.23	0.38
APR 1991	0.59	0.72	0.27	0.43
MAY 1991	5.50	0.73	0.34	0.43
JUN 1991	6.88	0.73	0.34	0.43
JUL 1991	7.0	0.83	0.14	0.43
AUG 1991	9.8	0.84	0.24	0.55
SEP 1991	10.0	0.94	0.24	0.40
OCT 1991	10.2	0.90	0.29	0.61
NOV 1991	10.2	0.94	0.44	0.56
DEC 1991	11.2	0.97	0.45	0.58

## ***IMPACT OF DISPOSAL SYSTEM ON DOWNGRADIENT WATER LEVELS***

Appendix J of the Consent Order, the Disposal System Contingency Plan, identifies specific monitor wells that are to be utilized to evaluate any impact from recharge of treated water into the alluvium. Fifteen wells are monitored monthly for groundwater levels. Kerr-McGee Chemical Corporation selected 5 of these wells in Appendix J of the Consent Order for quarterly chromium analysis. These wells have been sampled and analyzed monthly. Figure 2 illustrates the location of the Consent Order Appendix J wells.

Appendix A of this report shows that groundwater elevations have stabilized in that portion of the facility that lies downgradient from the recharge system (evidenced by wells M-47, M-23, and M-49), and are lower than in January, 1988. No surface wetting downgradient from the recharge trenches has been observed. KMCC is confident that no undesirable impact to groundwater levels exists downgradient from the recharge trench.

## **CHROMIUM TREATMENT SYSTEM EFFECTIVENESS**

The Consent Order specifies the following effluent concentration limits for the treatment plant discharge water: Total Chromium 1.7 mg/l and Hexavalent Chromium 0.05 mg/l as a monthly average; Total Chromium 3.4 mg/l and Hexavalent Chromium 0.1 mg/l as a maximum single value on a composite sample.

Table 4 lists treatment plant feed and discharge chromium concentration data for January through June, 1991. Hexavalent Chromium in December 1991 exceeded the 0.1 mg/l limit.

**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

*TABLE 4 (cont.)*  
**GROUNDWATER TREATMENT ANALYSIS**

WEEK OF	VOLUME TREATED (M gal.)	FEED CHROMIUM (mg/l)	TREATED TOTAL (mg/l)	EFFLUENT HEXAVALENT (mg/l)
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	00.065	0.0475
Dec. 23 - Dec. 31	329	4.70	0.153	0.0517
Dec., 1991 Average	318	4.61	0.191	0.1493

## **ADDITIONAL WORK PERFORMED**

Approximately every twenty days, the electrodes in the treatment plant's electrolytic cells deteriorate to the point they require replacement. During the second half of 1991, electrodes were replaced July 3, August 6, September 9, October 11, November 6, and December 6, 1991. Each time, the cell that was on standby replaced the disconnected cell in the treatment circuit.

Several interceptor wells were replaced during the second half of 1991. Interceptor well I-K was replaced in June. Interceptor well I-H was replaced in July. Interceptor wells I-K and I-H were replaced again in August. Interceptor wells I-C and I-I were replaced in September. Interceptor well I-D was replaced in October.

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, recovery can be increased by decreasing the pump rate, allowing 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 flowrate adjusted. In addition, other maintenance associated with maintaining treatment plant operations were performed.

Electronic pressure transducers were placed in wells 53, 54, 55, 56, 58, 59, 60, 61, and 78 in October 1991. A telephone-addressable datalogger will record the pressure head in each of the wells at a regular interval and convert the pressure head to groundwater elevation. KMCC anticipates that this format of groundwater elevation monitoring will provide more accurate data and will replace the continuous water level recorder currently used in well M-78. This water level monitoring system will also yield the same data as the current monthly manual recording of groundwater elevations throughout the consent order monitoring area. Provisions for discontinuing the use of the continuous water level recorder are given in Section 6 of the Consent Order.

## ***PROPOSED FUTURE ACTIVITIES***

KMCC will continue to record all water levels in the consent order area on a quarterly basis. Quarterly potentiometric surface maps and cross-sections will be developed, and the water level recorders on monitor wells M-78 and M-80 will continue to operate.

In addition, the KMCC is developing a program to address the increasing Chromium concentrations reported in the recharge trench areas. This program may include additional subsurface investigations.

## CONCLUSIONS

KMCC is confident that the groundwater interception and treatment systems have been maximized to provide system efficiency. The effect of changing the pumping rates of the interceptor wells will continue to be monitored, and appropriate responses (i.e.- future pump rate adjustments) will be taken to assure optimal drawdown and concentrated plume area interception.

Discharge chromium concentrations for the treatment facility are below established requirements. Groundwater samples obtained from monitor wells downgradient of the recharge trenches show that groundwater is being remediated. 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 trenches. No other design modifications to the treatment plant facility are contemplated at this time.

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

**KERR-MCGEE CHEMICAL CORPORATION**  
**HENDERSON, NEVADA FACILITY**  
**GROUNDWATER ELEVATIONS**

TOC-->	M-11			M-14			M-15			M-17			M-18			M-19			M-22R			M-23			M-25			M-27		
	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.		
20-Jan-88	44.73	1768.68	28.36	1758.83	30.64	1758.90	23.39	1758.40	31.12	1758.42	11.87	1726.41	27.88	1738.67	27.60	1738.95	14.58	1698.20	27.07	1731.08	15.70	1724.77	15.36	1731.52	15.23	1723.11				
05-Feb-88	44.73	1768.68	28.70	1750.13	23.59	1726.10	24.33	1725.66	31.72	1737.82	12.13	1726.15	28.36	1738.19	14.52	1698.26	27.66	1730.49	15.88	1724.59	15.23	1731.52	15.08	1724.02						
01-Mar-88	44.76	1768.70	29.36	1759.47	24.62	1725.66	24.52	1725.07	32.42	1737.12	12.73	1725.55	28.92	1737.63	14.67	1698.11	28.33	1729.82	16.45	1724.02	15.23	1731.52	15.08	1724.77						
19-Apr-88	45.17	1768.29	30.14	1728.69	25.05	1724.64	32.90	1736.64	13.08	1725.20	29.34	1727.21	15.05	1697.73	29.00	1729.15	17.21	1723.26	15.23	1731.52	15.08	1724.77								
18-May-88	45.13	1768.33	30.48	1728.35	25.24	1724.45	33.03	1736.51	13.30	1724.98	29.64	1736.91	15.29	1697.49	29.60	1728.55	17.52	1722.95	15.23	1731.52	15.08	1724.77								
07-Jun-88	45.39	1768.07	30.67	1728.16	25.33	1723.86	33.96	1735.58	13.73	1724.55	29.98	1736.57	15.73	1697.05	29.65	1728.50	17.67	1722.80	15.23	1731.52	15.08	1724.77								
14-Jul-88	46.16	1767.30	31.06	1727.77	25.83	1723.86	34.18	1735.36	13.91	1724.37	29.24	1737.31	15.73	1697.33	30.10	1728.05	16.66	1723.51	15.23	1731.52	15.08	1724.77								
06-Aug-88	46.20	1767.26	31.36	1727.47	25.94	1723.75	34.30	1735.24	13.40	1724.88	29.75	1736.80	15.50	1697.28	30.15	1728.00	18.30	1722.17	15.23	1731.52	15.08	1724.77								
03-Sep-88	46.12	1767.34	31.32	1727.51	25.95	1723.74	34.30	1735.14	14.30	1723.98	29.70	1736.85	15.55	1697.23	30.70	1727.45	18.60	1721.87	15.23	1731.52	15.08	1724.77								
10-Oct-88	45.40	1768.06	31.50	1727.33	26.00	1723.69	34.40	1735.14	14.40	1723.88	29.90	1736.65	16.85	1695.93	30.70	1727.45	19.30	1721.17	15.23	1731.52	15.08	1724.77								
26-Nov-88	41.65	1771.81	31.65	1727.18	27.10	1722.59	34.30	1735.24	14.00	1724.28	30.40	1736.15	26.90	1731.78	17.70	1727.20	18.75	1721.72	15.23	1731.52	15.08	1724.77								
15-Dec-88	46.10	1767.36	37.70	1721.13	30.18	1719.51	33.75	1735.79	14.00	1724.28	30.60	1735.95	26.90	1731.78	15.10	1697.68	30.95	1727.20	18.75	1721.72	15.23	1731.52	15.08	1724.77						
19-Jan-89	46.15	1767.31	31.80	1727.03	25.05	1724.64	34.75	1734.79	14.50	1722.48	30.60	1735.95	27.15	1731.55	32.10	1726.05	19.75	1720.72	15.23	1731.52	15.08	1724.77								
23-Feb-89	45.27	1768.19	32.15	1726.68	23.35	1721.34	35.00	1734.54	15.35	1722.93	30.80	1735.75	27.75	1730.93	32.10	1726.05	19.75	1720.72	15.23	1731.52	15.08	1724.77								
23-Mar-89	45.90	1767.56	32.20	1726.63	24.40	1721.29	35.10	1734.44	15.70	1722.58	31.00	1735.55	27.85	1730.83	32.20	1725.95	19.65	1720.82	15.23	1731.52	15.08	1724.77								
23-Apr-89	46.10	1767.36	32.30	1726.53	24.40	1721.29	35.10	1734.44	15.85	1722.43	31.00	1735.55	27.95	1730.83	32.00	1726.15	19.80	1720.67	15.23	1731.52	15.08	1724.77								
09-May-89	44.95	1768.51	32.40	1726.43	27.30	1721.89	35.20	1734.54	16.00	1722.29	31.00	1735.55	27.95	1730.73	16.00	1696.78	32.30	1726.05	19.75	1720.72	15.23	1731.52	15.08	1724.77						
01-Jun-89	45.50	1767.96	32.50	1726.33	28.50	1721.19	35.25	1734.29	16.25	1722.03	31.30	1735.25	28.05	1730.63	16.10	1696.68	32.30	1726.05	19.85	1720.62	15.23	1731.52	15.08	1724.77						
03-Jul-89	45.00	1768.46	32.60	1726.23	27.60	1722.09	35.35	1734.19	16.55	1721.73	31.45	1735.10	29.35	1729.35	16.20	1696.58	32.10	1726.05	19.85	1720.62	15.23	1731.52	15.08	1724.77						
16-Aug-89	46.00	1767.46	32.70	1726.13	28.30	1721.39	35.50	1734.04	16.85	1721.43	34.55	1732.00	28.30	1730.36	21.70	1691.06	36.00	1722.15	20.25	1720.22	15.23	1731.52	15.08	1724.77						
12-Sep-89	45.30	1768.16	32.55	1726.28	28.55	1721.14	35.35	1733.99	16.80	1721.48	36.80	1729.75	23.60	1730.06	21.90	1690.88	32.65	1725.50	20.50	1719.97	15.23	1731.52	15.08	1724.77						
25-Oct-89	45.00	1768.46	32.60	1726.23	28.40	1721.29	35.35	1734.19	17.10	1721.18	31.60	1734.95	28.55	1730.13	21.30	1691.48	32.50	1725.35	20.75	1719.77	15.23	1731.52	15.08	1724.77						
17-Nov-89	44.10	1769.36	32.00	1726.83	30.00	1719.69	35.15	1734.39	17.10	1721.18	31.20	1735.35	28.70	1729.98	16.85	1695.93	32.80	1725.35	21.10	1719.37	15.23	1731.52	15.08	1724.77						
07-Dec-89	45.00	1768.46	32.85	1725.98	28.30	1721.39	35.35	1734.19	17.25	1721.03	31.85	1734.70	28.65	1730.03	16.95	1695.83	32.55	1725.35	20.80	1719.67	15.23	1731.52	15.08	1724.77						
12-Jan-90	45.05	1768.41	32.95	1725.88	28.40	1721.29	35.55	1733.99	17.55	1720.73	31.70	1734.85	28.90	1729.78	17.10	1695.68	32.75	1725.40	21.00	1719.47	15.23	1731.52	15.08	1724.77						
23-Feb-90	45.30	1768.16	32.90	1725.93	28.50	1721.19	35.40	1734.64	17.60	1720.68	31.15	1735.11	28.00	1729.68	17.10	1695.68	32.90	1725.25	21.10	1719.37	15.23	1731.52	15.08	1724.77						
11-Jul-90	44.60	1768.86	33.45	1725.38	29.45	1720.24	37.00	1732.54	18.20	1720.68	32.20	1734.06	28.60	1730.08	16.65	1696.13	33.30	1724.45	22.05	1718.42	15.23	1731.52	15.08	1724.77						
11-Aug-90	44.70	1768.76	33.50	1725.33	30.20	1719.49	36.15	1733.39	18.40	1719.86	32.40	1733.86	28.70	1729.98	16.70	1696.08	33.70	1724.45	22.30	1718.17	15.23	1731.52	15.08	1724.77						
02-Nov-90	44.90	1768.56	33.70	1725.13	31.00	1718.69	36.10	1733.44	18.75	1719.53	32.90	1733.36	29.05	1729.63	16.35	1694.43	34.10	1724.05	23.50	1716.97	15.23	1731.52	15.08	1724.77						
15-Feb-91	44.50	1768.96	33.65	1725.18	31.40	1718.29	35.70	1733.84	19.50	1718.78	33.35	1732.91	29.70	1728.98	18.85	1693.93	33.90	1724.25	24.40	1716.07	15.23	1731.52	15.08	1724.77						
28-Jun-91	44.00	1769.46	33.65	1725.18	31.45	1717.84	36.20	1733.34	19.90	1718.38	34.50	1731.76	29.45	1729.23	19.35	1693.43	34.00	1724.15	25.00	1715.47	15.23	1731.52	15.08	1724.77						
25-Sep-91	43.60	1769.86	33.45	1725.38	31.80	1717.89	broken		20.45	1717.83	34.00	1732.26	29.70	1728.98	19.35	1692.93	33.25	1724.90	25.55	1714.92	15.23	1731.52	15.08	1724.77						
11-Dec-91	43.15	1770.31	33.10	1725.73	32.00	1717.69	broken		20.80	1717.48	33.80	1732.46	29.80	1728.88	20.10	1692.68	33.60	1724.55	25.75	1714.72	15.23	1731.52	15.08	1724.77						

**KERR-McGEE CHEMICAL CORPORATION**  
**HENDERSON, NEVADA FACILITY**  
**GROUNDWATER ELEVATIONS**

TOC-->	M-31		M-36		M-37		M-38		M-39		M-47		M-49		M-53		M-54		M-55	
	DTW	ELEV.																		
20-Jan-88	39.34	1788.39	25.62	1749.03	26.38	1733.32	26.38	1731.84	23.80	1735.51	13.08	1703.43	12.33	1706.25	25.56	1725.96	22.14	1726.79	23.27	1726.08
05-Feb-88	39.53	1748.86	25.95	1731.99	27.28	1732.00	26.37	1731.51	24.32	1734.99	13.04	1703.47	12.49	1706.29	25.73	1725.83	22.31	1726.82	23.74	1725.61
01-Mar-88	39.68	1748.71	26.50	1731.44	27.57	1731.41	26.99	1730.89	24.81	1734.50	13.00	1703.51	12.47	1706.31	26.21	1725.35	22.88	1726.05	24.15	1725.20
19-Apr-88	40.08	1748.31	27.14	1730.80	28.62	1730.66	27.60	1730.28	25.42	1733.89	13.10	1703.41	12.60	1706.18	26.75	1724.81	23.50	1725.43	24.75	1724.60
18-May-88	40.36	1748.03	27.50	1730.44	28.90	1730.38	28.00	1729.88	25.83	1733.48	13.29	1703.22	12.94	1705.84	27.09	1724.47	23.60	1725.33	25.05	1724.30
07-Jun-88	40.50	1747.89	27.73	1730.21	29.16	1730.12	28.27	1729.61	26.07	1733.24	13.47	1703.04	13.09	1705.69	27.25	1724.31	23.83	1725.10	25.27	1724.08
14-Jul-88	40.70	1747.69	28.60	1729.34	29.60	1729.68	28.75	1729.13	26.50	1732.81	13.72	1702.79	13.35	1705.43	27.60	1723.96	24.50	1724.43	25.78	1723.57
06-Aug-88	40.93	1747.86	28.45	1729.49	29.36	1729.42	28.94	1728.94	26.77	1732.54	14.07	1702.44	13.81	1704.97	27.94	1723.62	24.52	1724.41	25.91	1723.44
03-Sep-88	40.52	1747.87	29.50	1728.44	29.80	1729.48	29.20	1728.68	26.71	1732.60	13.72	1702.79	13.35	1705.35	28.12	1723.44	24.48	1724.45	26.20	1723.15
10-Oct-88	40.15	1748.24	28.80	1729.14	30.10	1729.18	29.50	1728.38	26.80	1732.51	13.65	1702.86	13.60	1705.18	28.30	1723.26	24.90	1724.03	26.40	1722.95
26-Nov-88	40.30	1748.09	29.00	1728.94	29.90	1728.56	29.30	1729.34	26.90	1732.41	13.80	1702.71	13.10	1705.68	28.10	1723.46	25.10	1723.83	26.80	1722.55
15-Dec-88	39.83	1748.56	29.40	1728.54	31.90	1727.33	29.70	1728.18	26.75	1732.56	13.75	1702.76	13.75	1705.03	28.60	1722.96	26.60	1720.33	26.75	1720.60
19-Jan-89	40.15	1748.24	26.60	1731.34	30.40	1728.84	29.90	1727.98	26.85	1732.46	14.10	1702.41	14.10	1704.68	28.35	1722.71	24.45	1724.45	24.20	1725.15
23-Feb-89	40.47	1747.92	29.80	1728.14	30.65	1728.63	32.70	1725.18	27.65	1731.66	14.45	1702.06	14.23	1704.55	28.90	1722.66	25.90	1723.03	27.30	1721.55
23-Mar-89	40.80	1747.59	30.50	1727.44	30.70	1728.53	30.30	1727.58	27.45	1731.46	14.65	1701.86	14.30	1704.45	29.40	1731.16	26.30	1722.63	26.80	1722.55
23-Apr-89	40.50	1747.59	30.30	1727.64	31.75	1727.53	30.40	1727.48	27.90	1731.41	14.70	1701.81	14.40	1704.36	29.40	1722.16	26.40	1722.53	27.45	1721.50
09-May-89	39.90	1748.49	30.20	1727.74	30.70	1728.53	30.40	1727.48	28.05	1731.26	14.80	1701.71	14.50	1704.28	29.75	1721.81	26.40	1722.53	27.85	1721.50
01-Jun-89	40.35	1748.04	30.35	1727.59	14.60	1744.63	30.45	1727.43	28.20	1731.11	14.60	1701.91	14.65	1704.13	29.75	1721.81	26.60	1722.35	27.90	1721.45
03-Jul-89	40.30	1748.09	31.70	1726.24	30.80	1728.48	30.40	1727.48	28.30	1731.01	15.00	1701.51	14.60	1704.18	30.00	1721.56	26.55	1722.38	27.45	1721.50
16-Aug-89	41.00	1747.39	30.50	1727.44	30.90	1728.38	30.65	1727.23	28.30	1731.01	20.50	1696.01	20.25	1698.53	30.10	1721.46	26.75	1722.18	28.20	1721.15
12-Sep-89	40.35	1747.84	30.70	1727.24	30.90	1728.58	30.65	1727.23	28.50	1730.81	19.50	1697.01	20.30	1698.48	30.10	1721.46	26.75	1722.18	28.35	1721.00
25-Oct-89	39.20	1747.19	30.80	1727.14	31.00	1728.28	30.55	1727.35	28.50	1730.81	26.50	1690.01	26.50	1698.18	30.35	1721.21	27.25	1721.68	28.45	1720.90
17-Nov-89	39.80	1748.59	30.40	1727.54	31.00	1728.48	30.55	1727.33	28.75	1730.56	15.80	1700.71	15.35	1703.43	29.00	1722.56	27.10	1721.83	28.30	1721.05
07-Dec-89	40.25	1748.14	30.55	1727.39	31.05	1728.23	30.60	1727.28	28.60	1730.71	15.70	1700.81	15.50	1703.28	30.50	1721.06	27.40	1721.53	28.45	1720.90
12-Jan-90	41.05	1747.34	30.60	1727.34	31.10	1728.18	30.65	1727.23	28.75	1730.56	15.85	1700.66	15.65	1703.13	30.60	1720.96	28.50	1720.43	28.55	1720.80
23-Feb-90	40.75	1747.64	31.50	1726.44	31.20	1728.08	30.70	1727.18	28.50	1730.81	15.80	1700.71	15.65	1703.13	30.65	1720.91	27.60	1721.33	28.65	1720.70
11-Jul-90	41.10	1747.29	32.20	1725.74	31.60	1727.63	31.10	1726.78	29.30	1730.01	16.35	1700.16	16.05	1702.73	31.05	1720.51	28.30	1720.63	29.45	1719.90
11-Aug-90	41.15	1747.24	32.00	1725.94	31.70	1727.58	31.10	1726.78	29.45	1729.86	16.35	1700.16	16.10	1702.68	31.15	1720.41	28.35	1720.58	29.70	1719.65
02-Nov-90	41.30	1747.09	32.00	1725.94	31.90	1727.38	31.25	1726.63	29.50	1729.81	16.80	1699.71	16.75	1702.03	31.40	1720.16	28.65	1720.28	30.25	1719.10
15-Feb-91	41.60	1746.79	32.40	1725.54	31.70	1727.58	31.30	1726.58	30.10	1729.21	17.50	1699.01	17.45	1701.33	31.45	1720.11	28.80	1720.53	30.65	1718.70
28-Jun-91	41.25	1747.14	30.80	1727.14	31.71	1727.57	31.40	1726.48	30.35	1728.96	18.85	1697.66	17.85	1700.93	31.50	1720.06	29.05	1719.88	31.05	1718.30
25-Sep-91	40.60	1747.79	32.00	1725.94	31.00	1728.28	31.35	1726.53	30.65	1728.66	18.30	1698.21	18.50	1700.28	31.25	1720.31	28.25	1720.68	30.60	1718.75
11-Dec-91	40.10	1748.29	33.00	1724.94	31.25	1728.03	31.25	1726.51	30.80	1728.51	18.65	1697.86	18.80	1699.98	31.15	1720.41	28.35	1720.58	30.80	1718.55

KERR-MCGEE CHEMICAL CORPORATION  
HENDERSON, NEVADA FACILITY  
GROUNDWATER ELEVATIONS

TOC-->	M-56		M-57		M-58		M-59		M-60		M-61		M-62		M-63		M-64		M-65	
	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.
20-Jan-88	22.48	1727.12	28.44	1752.29	20.58	1725.35	1743.01	1750.13	22.36	1728.79	16.60	1728.95	25.51	1727.41	22.54	1728.05	22.91	1728.76	24.97	1727.91
05-Feb-88	22.87	1726.73	26.67	1725.62	20.80	1722.45	14.45	1728.53	22.38	1727.75	17.12	1728.43	25.74	1727.18	22.78	1727.81	23.15	1726.61	25.24	1727.64
01-Mar-88	23.35	1726.25	27.10	1725.19	21.09	1728.16	14.86	1728.15	22.80	1727.33	17.34	1728.21	26.18	1726.74	23.43	1727.16	23.87	1725.89	25.89	1726.99
19-Apr-88	24.04	1725.56	27.58	1724.71	21.67	1727.58	15.54	1727.47	23.54	1726.59	17.81	1727.74	26.77	1726.15	24.08	1726.51	24.52	1725.24	26.58	1726.30
18-May-88	24.57	1725.03	27.85	1724.41	22.12	1727.13	15.83	1727.18	23.82	1726.31	18.16	1727.39	27.05	1725.87	24.40	1726.19	24.74	1725.02	27.00	1725.88
07-Jun-88	24.68	1724.92	27.97	1724.32	22.35	1726.90	16.08	1726.93	24.01	1726.12	18.35	1727.20	27.25	1725.67	24.55	1726.04	25.00	1724.76	27.24	1725.64
14-Jul-88	25.14	1724.46	28.32	1723.97	22.90	1726.35	16.57	1726.44	24.48	1725.65	18.78	1726.77	27.63	1725.29	24.88	1725.71	25.50	1724.26	27.45	1725.03
06-Aug-88	25.33	1724.27	26.61	1723.68	23.24	1726.01	16.78	1726.23	24.69	1725.44	19.05	1726.50	27.99	1724.93	25.20	1725.39	25.66	1724.10	27.97	1724.91
03-Sep-88	25.30	1724.30	26.62	1723.67	23.15	1726.10	16.57	1726.44	20.80	1729.33	16.50	1729.05	28.10	1724.82	25.30	1725.29	25.80	1723.96	28.25	1724.63
10-Oct-88	25.65	1723.95	27.75	1723.54	23.30	1725.95	16.60	1726.41	25.00	1725.13	19.20	1726.35	28.10	1724.82	25.15	1725.44	25.90	1723.86	28.65	1724.23
26-Nov-88	25.80	1723.80	24.85	1723.44	23.30	1725.95	16.90	1726.11	25.00	1725.95	19.60	1726.72	28.20	1725.39	25.20	1724.72	26.20	1723.56	28.90	1723.98
15-Dec-88	31.00	1718.60	29.10	1723.19	26.90	1722.35	17.30	1725.71	26.40	1723.13	19.25	1726.30	28.60	1724.32	31.50	1719.09	29.45	1720.31	26.75	1726.13
19-Jan-89	26.50	1723.10	29.10	1723.19	24.10	1725.15	17.70	1725.31	25.00	1725.13	19.70	1725.85	28.75	1724.17	25.85	1724.74	26.65	1723.11	30.00	1722.88
23-Feb-89	26.95	1722.65	29.40	1722.89	24.75	1724.50	18.40	1724.61	26.15	1723.98	22.50	1723.05	28.80	1724.12	26.15	1724.44	27.35	1722.41	30.40	1722.48
23-Mar-89	27.00	1722.60	29.60	1722.69	25.00	1724.25	18.60	1724.41	26.30	1723.83	20.60	1724.95	29.00	1723.92	26.55	1724.04	27.40	1722.36	30.30	1722.58
23-Apr-89	27.15	1722.45	29.65	1722.64	24.95	1724.30	18.80	1724.21	26.40	1723.73	20.70	1724.85	29.10	1723.82	26.40	1724.19	27.50	1722.26	30.55	1722.33
09-May-89	26.60	1722.00	29.30	1722.49	25.10	1724.15	18.70	1724.31	26.40	1723.73	20.60	1724.95	29.25	1723.67	26.65	1723.94	27.45	1722.31	30.35	1722.53
01-Jun-89	27.15	1722.45	29.45	1722.44	25.50	1723.75	19.10	1723.91	26.60	1723.53	21.05	1724.50	29.30	1723.62	26.70	1723.89	27.60	1722.16	30.40	1722.48
03-Jul-89	27.15	1722.45	30.00	1722.29	25.75	1723.50	19.40	1723.61	26.70	1723.43	21.35	1724.20	29.30	1723.62	26.65	1723.94	27.50	1722.26	30.55	1722.33
16-Aug-89	27.60	1722.00	30.15	1722.14	25.80	1723.45	19.55	1723.46	26.95	1723.18	21.50	1724.05	29.55	1723.64	27.95	1723.94	27.30	1721.96	30.95	1721.93
12-Sep-89	27.70	1721.90	30.15	1722.14	25.90	1723.35	19.50	1723.51	27.05	1723.08	20.80	1724.75	29.55	1723.37	27.40	1723.69	27.90	1721.86	31.10	1721.73
25-Oct-89	27.65	1721.95	30.25	1722.04	26.10	1723.15	19.65	1723.36	27.15	1722.98	21.75	1724.80	29.70	1723.22	27.15	1723.44	28.05	1721.71	29.60	1722.28
17-Nov-89	27.20	1722.40	31.00	1721.29	26.10	1723.15	19.50	1723.51	26.90	1723.23	21.40	1724.15	30.20	1722.72	27.10	1723.49	28.00	1721.49	30.70	1722.18
07-Dec-89	27.75	1721.45	30.40	1721.89	26.15	1723.10	19.90	1723.11	27.30	1722.83	21.85	1723.70	29.45	1723.07	27.30	1723.64	27.30	1721.66	30.70	1722.18
12-Jan-90	27.65	1721.95	30.50	1721.79	26.30	1722.95	20.15	1722.86	27.30	1722.83	22.15	1723.40	29.95	1722.97	27.40	1723.19	28.20	1721.56	30.75	1722.13
23-Feb-90	28.00	1721.60	30.55	1721.74	26.40	1722.85	20.05	1722.96	27.15	1722.83	21.45	1723.70	30.00	1722.92	27.50	1723.09	28.35	1721.41	30.95	1721.93
11-Jul-90	28.60	1721.00	30.90	1721.39	26.95	1722.30	20.60	1722.41	28.15	1721.96	22.55	1723.00	30.40	1722.52	28.00	1722.59	29.00	1720.76	30.70	1721.08
11-Aug-90	28.95	1720.65	31.05	1721.24	27.10	1722.15	20.75	1722.26	28.25	1721.86	22.70	1722.85	30.50	1722.42	28.10	1722.49	29.10	1720.66	32.40	1720.48
02-Nov-90	29.40	1720.20	31.30	1720.99	27.40	1721.05	21.00	1722.01	26.60	1721.53	23.00	1722.55	30.75	1722.17	28.30	1722.29	29.45	1720.31	32.90	1719.98
15-Feb-91	29.90	1719.70	31.30	1720.99	27.85	1721.40	21.50	1721.51	29.10	1721.03	23.45	1722.10	30.75	1722.17	28.30	1722.29	29.50	1720.26	33.10	1719.76
28-Jun-91	30.40	1719.20	31.30	1720.99	28.20	1721.05	21.75	1721.26	29.50	1720.63	23.65	1721.90	30.80	1722.12	28.40	1722.19	29.85	1719.91	33.30	1719.58
25-Sep-91	30.60	1719.00	31.10	1721.19	28.60	1720.65	21.80	1721.21	29.90	1720.23	23.75	1721.80	30.45	1722.47	27.90	1722.69	29.15	1720.61	33.10	1719.78
11-Dec-91	30.85	1718.75	30.90	1721.39	28.80	1720.45	22.40	1721.20	30.00	1720.13	24.35	1721.20	30.30	1722.62	27.80	1722.79	29.35	1720.41	33.35	1719.59

**KERR-McGEE CHEMICAL CORPORATION  
HENDERSON, NEVADA FACILITY**  
**GROUNDWATER ELEVATIONS**

TOC-->	M-66		M-67		M-68		M-69		M-70		M-71		M-72		M-73		M-74		M-75	
	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.
20-Jan-88	22.69	1729.64	14.59	1744.98	1747.44	1748.77	1749.56	1746.96	1746.77	23.61	1725.35	19.37	1726.51	1722.16	1725.35	1728.03	15.40	1728.02	24.94	1728.07
05-Feb-88	22.97	1729.36	14.90	1729.08	16.53	1729.91	23.84	1724.93	21.97	1726.11	19.77	1726.11	17.46	1728.03	12.27	1727.78	15.63	1727.79	25.24	1725.77
01-Mar-88	23.54	1728.79	15.33	1729.65	16.96	1730.48	24.31	1724.46	22.53	1724.43	20.11	1725.77	17.77	1727.72	12.50	1727.55	16.00	1727.42	25.68	1725.33
19-Apr-88	23.92	1728.41	15.81	1729.17	17.50	1729.94	24.82	1725.95	23.10	1723.86	20.75	1725.13	18.31	1727.18	13.12	1726.93	16.56	1726.86	24.75	1726.26
18-May-88	24.33	1728.00	16.18	1728.80	17.84	1729.60	25.07	1723.70	23.34	1723.62	21.30	1724.58	18.73	1726.76	13.55	1726.50	16.80	1726.62	26.23	1724.78
07-Jun-88	24.52	1727.81	16.44	1728.54	18.06	1729.36	25.34	1723.45	23.55	1723.41	21.55	1724.33	18.97	1726.52	13.82	1726.23	17.05	1726.57	26.23	1724.78
14-Jul-88	25.05	1727.28	16.93	1728.05	18.46	1728.98	24.54	1724.23	23.95	1723.01	22.04	1723.84	19.49	1726.00	14.30	1725.75	17.47	1725.95	26.80	1724.21
06-Aug-88	25.20	1727.13	17.20	1727.78	18.76	1728.68	26.02	1722.75	24.26	1722.70	22.25	1723.63	19.40	1726.69	14.51	1725.54	17.71	1725.71	26.97	1724.04
03-Sep-88	25.35	1726.98	17.00	1727.98	17.95	1729.49	25.90	1722.87	24.40	1722.56	22.15	1723.73	19.70	1725.79	14.30	1725.75	17.00	1726.82	27.10	1723.91
10-Oct-88	25.40	1726.93	17.10	1727.88	16.80	1730.64	26.00	1722.77	24.80	1722.16	22.80	1723.08	20.25	1725.24	14.85	1725.20	18.00	1725.42	27.62	1723.39
26-Nov-88	25.70	1726.63	17.80	1727.18	19.00	1728.44	26.25	1722.52	25.35	1721.61	23.20	1722.68	20.10	1725.39	15.00	1725.05	18.30	1725.12	23.20	1727.81
15-Dec-88	25.95	1726.34	17.60	1727.38	18.75	1728.69	29.55	1719.22	26.65	1720.31	24.10	1721.78	21.55	1723.94	14.60	1725.45	17.90	1725.52	26.65	1722.36
19-Jan-89	26.10	1726.23	18.00	1726.86	19.00	1728.44	26.00	1722.77	25.55	1721.41	24.10	1721.78	20.00	1725.49	14.70	1725.35	18.00	1725.42	29.05	1721.96
23-Feb-89	26.70	1725.83	18.45	1726.63	19.40	1728.04	26.50	1722.77	25.90	1722.16	24.75	1721.13	21.40	1724.69	16.30	1723.75	18.90	1724.52	29.40	1721.61
23-Mar-89	26.90	1725.63	18.70	1726.32	19.85	1727.59	28.35	1720.42	26.00	1720.96	24.65	1721.23	21.70	1723.45	19.30	1724.12	29.40	1721.61	29.50	1721.51
23-Apr-89	27.00	1725.33	18.80	1726.18	20.00	1727.44	27.40	1721.37	26.00	1720.96	24.70	1721.18	21.80	1723.69	16.30	1723.25	19.40	1724.02	29.50	1722.36
09-May-89	27.15	1725.18	18.80	1726.18	20.15	1727.29	27.70	1721.07	26.10	1720.86	24.65	1721.23	22.00	1723.49	16.30	1723.25	19.50	1723.92	29.40	1721.61
01-Jun-89	27.35	1724.98	19.10	1725.88	20.35	1727.69	27.75	1721.02	26.15	1720.81	24.70	1721.18	22.20	1723.29	17.10	1722.95	19.75	1723.67	29.40	1721.61
03-Jul-89	27.35	1724.78	19.35	1725.63	20.60	1726.84	27.95	1720.82	26.15	1720.81	24.75	1721.13	22.55	1722.94	17.50	1722.55	20.00	1723.42	29.50	1721.51
16-Aug-89	27.70	1724.63	19.45	1725.53	20.70	1726.74	28.20	1720.57	26.35	1720.61	25.25	1720.63	22.65	1722.94	17.60	1722.45	20.25	1723.17	30.05	1720.96
12-Sep-89	27.75	1724.58	19.45	1725.53	20.30	1727.14	28.00	1720.77	26.55	1720.41	25.50	1720.36	22.85	1722.64	17.70	1722.35	19.80	1723.62	30.10	1720.91
25-Oct-89	19.55	1725.43	20.85	1726.59	20.85	1726.59	23.65	1720.12	26.90	1720.81	24.70	1721.18	22.20	1723.29	17.10	1722.15	19.75	1722.67	29.30	1721.21
17-Nov-89	19.40	1725.58	20.85	1726.59	20.00	1726.59	23.00	1720.77	25.80	1721.16	25.00	1721.81	22.55	1722.88	23.80	1722.02	20.40	1722.40	30.20	1720.81
07-Dec-89	27.68	1724.73	19.65	1725.33	21.00	1726.44	24.95	1719.82	26.85	1720.11	25.25	1720.63	23.15	1722.34	18.05	1722.06	20.65	1722.77	29.00	1722.01
12-Jan-90	27.75	1724.58	20.00	1724.98	21.20	1726.24	29.30	1719.67	27.00	1719.36	25.25	1720.48	23.50	1722.19	18.30	1721.75	20.95	1722.47	30.00	1721.01
23-Feb-90	27.80	1724.58	19.75	1725.23	20.70	1726.74	29.30	1719.47	27.10	1719.36	25.40	1720.48	23.50	1721.99	18.35	1721.70	20.75	1722.67	30.10	1720.91
11-Jul-90	28.40	1723.93	20.40	1724.58	21.70	1725.74	30.15	1718.62	27.90	1719.06	26.45	1719.43	24.15	1721.34	18.90	1721.15	21.45	1721.97	31.40	1719.61
11-Aug-90	28.50	1723.83	20.55	1724.43	21.85	1725.59	30.25	1718.52	27.90	1719.06	27.30	1718.58	24.30	1721.19	19.10	1720.95	21.65	1721.77	31.60	1719.41
02-Nov-90	28.80	1723.53	20.70	1724.28	22.15	1725.29	30.75	1718.02	28.30	1718.66	28.30	1717.58	24.70	1720.79	19.40	1720.65	21.95	1721.47	32.45	1718.56
15-Feb-91	29.10	1723.23	21.20	1723.78	22.70	1724.74	31.05	1717.72	29.00	1717.96	29.00	1716.88	25.40	1720.09	19.90	1720.15	22.50	1720.92	32.90	1718.11
28-Jun-91	29.55	1722.73	21.45	1723.53	22.90	1724.54	31.35	1717.42	29.60	1717.36	29.50	1716.38	25.75	1719.74	20.20	1719.45	22.80	1720.62	33.30	1717.71
25-Sep-91	29.85	1722.43	21.55	1723.43	23.25	1724.19	30.75	1718.02	28.90	1718.06	29.90	1715.98	26.35	1719.14	20.20	1719.05	23.55	1720.32	33.30	1717.71
11-Dec-91	30.00	1722.33	22.00	1722.98	23.65	1723.79	30.65	1718.12	29.00	1717.96	30.05	1715.83	26.75	1718.74	21.00	1719.05	23.55	1719.87	33.45	1717.56

**KERR-MCGEE CHEMICAL CORPORATION**  
**HENDERSON, NEVADA FACILITY**  
**GROUNDWATER ELEVATIONS**

TOC-->	M-30			M-31			M-32			M-33			M-34			M-35			M-36			M-37		
	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.																		
20-Jan-88	17.54	1725.39	20.86	1725.93	15.13	1726.50	15.74	1726.64	16.52	1724.31	14.42	1725.21	15.14	1726.05	15.71	1727.02	16.10	1728.17	13.02	1724.97				
05-Feb-88	17.58	1725.05	21.23	1724.50	15.18	1726.55	15.98	1723.40	16.64	1724.19	14.82	1724.81	15.36	1725.83	15.96	1726.77	16.15	1726.12	13.19	1724.80				
01-Mar-88	18.37	1724.56	19.72	1726.01	15.46	1726.27	16.37	1723.01	17.05	1724.78	15.00	1724.63	15.63	1725.56	16.00	1726.73	16.32	1725.95	13.41	1724.58				
19-Apr-88	18.87	1724.06	20.41	1725.32	16.08	1727.65	16.85	1722.53	17.54	1723.29	15.56	1724.07	16.23	1724.96	16.62	1726.11	16.87	1725.40	13.93	1724.06				
18-May-88	19.47	1723.46	21.05	1724.68	16.80	1726.93	17.28	1722.10	18.00	1722.83	16.00	1723.63	16.80	1724.39	16.23	1726.50	17.31	1724.94	14.41	1723.58				
07-Jun-88	19.70	1723.23	21.20	1724.53	17.11	1726.62	17.47	1721.91	18.24	1722.59	16.32	1723.31	17.11	1724.08	17.50	1725.23	17.63	1724.64	14.57	1723.42				
14-Jul-88	20.00	1722.93	21.50	1724.23	17.55	1726.18	17.67	1721.71	18.45	1722.36	16.62	1723.01	17.42	1723.77	17.93	1724.80	18.15	1726.12	14.97	1723.02				
06-Aug-88	20.42	1722.51	21.53	1724.20	17.79	1725.94	18.07	1721.31	19.00	1721.83	17.93	1722.60	17.80	1723.39	18.21	1724.52	18.20	1726.07	15.08	1722.91				
03-Sep-88	20.10	1722.83	21.02	1724.71	17.40	1726.93	17.50	1721.88	17.87	1722.96	15.80	1723.83	16.90	1724.29	17.74	1724.99	17.80	1724.47	14.56	1723.43				
10-Oct-88	20.50	1722.43	22.50	1723.23	18.15	1725.54	18.30	1721.06	19.20	1721.63	17.30	1722.33	18.30	1722.89	18.90	1723.83	18.60	1723.67	15.60	1722.39				
26-Nov-88	20.75	1722.18	23.10	1717.63	17.75	1725.96	18.50	1720.85	19.30	1721.53	17.95	1721.68	18.35	1722.84	18.10	1724.63	18.25	1724.02	15.75	1722.24				
15-Dec-88	22.45	1720.46	23.60	1722.13	18.25	1725.48	23.40	1715.96	24.10	1716.73	23.80	1715.83	19.05	1722.14	18.55	1724.18	18.85	1722.42	15.60	1722.39				
19-Jan-89	20.15	1722.76	23.50	1722.23	18.80	1724.93	17.90	1721.48	19.85	1720.96	18.30	1721.33	19.10	1722.09	16.30	1725.43	19.35	1722.92	15.30	1722.69				
23-Feb-89	20.20	1722.73	23.83	1721.90	19.90	1723.43	18.70	1723.43	19.20	1721.63	17.30	1722.33	18.30	1722.89	18.90	1723.83	18.60	1723.67	15.60	1722.39				
23-Mar-89	21.20	1721.73	23.85	1721.85	20.00	1723.73	18.85	1720.53	20.30	1720.53	18.75	1720.88	19.35	1721.68	20.15	1722.84	18.10	1724.63	18.25	1722.42				
23-Apr-89	21.25	1721.63	23.90	1721.83	19.80	1723.93	18.70	1720.68	20.20	1720.63	18.75	1720.88	19.45	1721.74	20.15	1722.58	20.75	1721.52	17.10	1722.89				
09-May-89	21.45	1721.08	24.00	1721.73	20.35	1723.38	19.30	1720.68	20.45	1720.38	18.90	1720.73	19.75	1721.44	20.60	1722.13	20.70	1721.57	17.25	1722.74				
01-Jun-89	22.00	1720.93	23.85	1721.88	20.50	1723.88	20.40	1720.68	20.25	1720.58	18.77	1720.86	19.60	1721.59	20.15	1722.58	20.45	1717.92	16.70	1721.29				
03-Jul-89	22.25	1720.68	24.10	1721.63	20.55	1723.88	20.00	1721.73	20.85	1720.53	20.30	1720.88	19.55	1721.64	21.50	1721.23	20.60	1721.67	17.90	1720.99				
16-Aug-89	22.50	1720.43	24.50	1721.23	21.00	1722.73	19.85	1719.53	20.75	1720.08	19.30	1720.33	20.15	1721.04	21.00	1721.73	21.70	1720.57	18.10	1719.89				
12-Sep-89	22.85	1720.08	24.70	1721.03	21.40	1722.35	20.15	1719.23	21.00	1719.83	19.55	1720.08	20.50	1720.69	21.50	1721.23	21.95	1720.32	18.20	1719.79				
25-Oct-89	23.00	1719.93	25.10	1720.63	21.70	1722.83	20.35	1719.93	21.40	1719.45	19.80	1719.83	20.75	1720.44	21.65	1721.08	21.20	1721.07	17.55	1720.44				
17-Nov-89	23.00	1719.93	24.50	1721.23	22.00	1721.73	20.00	1719.38	21.90	1718.93	20.00	1719.63	20.50	1720.54	20.50	1722.23	21.20	1721.07	17.55	1720.44				
03-Dec-89	23.15	1719.78	25.15	1720.58	21.75	1721.94	20.50	1719.88	21.55	1719.93	19.90	1719.73	20.70	1720.49	21.00	1721.73	21.75	1720.98	22.45	1719.82				
12-Jan-90	23.35	1719.58	25.25	1720.48	22.00	1721.79	20.70	1718.68	21.65	1719.18	20.05	1719.58	20.85	1720.34	22.00	1720.73	22.65	1719.82	18.10	1719.14				
23-Feb-90	23.15	1719.78	25.30	1720.48	22.10	1721.63	20.80	1718.58	21.40	1719.45	19.80	1719.83	20.75	1720.44	21.65	1721.08	22.35	1719.92	18.40	1719.04				
11-Jul-90	24.50	1718.13	26.15	1719.58	23.10	1720.63	22.80	1718.03	21.10	1718.53	22.10	1719.09	22.90	1719.83	23.40	1718.87	19.50	1719.49						
11-Aug-90	24.60	1718.33	26.45	1719.26	22.95	1720.78	22.00	1717.38	22.65	1717.96	21.35	1718.28	22.20	1718.99	22.80	1719.85	23.60	1718.67	19.75	1718.24				
02-Nov-90	24.90	1718.03	27.70	1718.93	24.35	1719.38	22.30	1717.08	23.40	1717.43	22.35	1717.28	23.85	1717.34	24.00	1718.73	24.10	1718.17	20.05	1717.94				
15-Feb-91	26.00	1716.93	28.45	1717.28	25.25	1718.48	23.35	1716.03	24.45	1716.38	23.35	1716.28	24.75	1716.44	25.00	1717.73	24.85	1717.42	21.00	1716.99				
28-Jun-91	26.15	1716.78	29.20	1716.53	26.00	1717.73	23.50	1715.88	25.15	1715.68	24.00	1715.63	25.50	1715.89	25.70	1717.03	25.25	1717.02	21.40	1716.59				
25-Sep-91	25.55	1717.38	29.35	1715.88	27.25	1716.48	23.00	1716.38	24.70	1716.13	24.40	1716.23	26.40	1714.79	27.00	1715.73	26.35	1715.92	22.45	1715.54				
11-Dec-91	33.50	1709.43	29.30	1715.93	27.35	1716.38	22.65	1716.73	24.70	1716.13	24.40	1715.23	26.40	1714.79	27.00	1715.73	26.35	1715.92	22.45	1715.54				

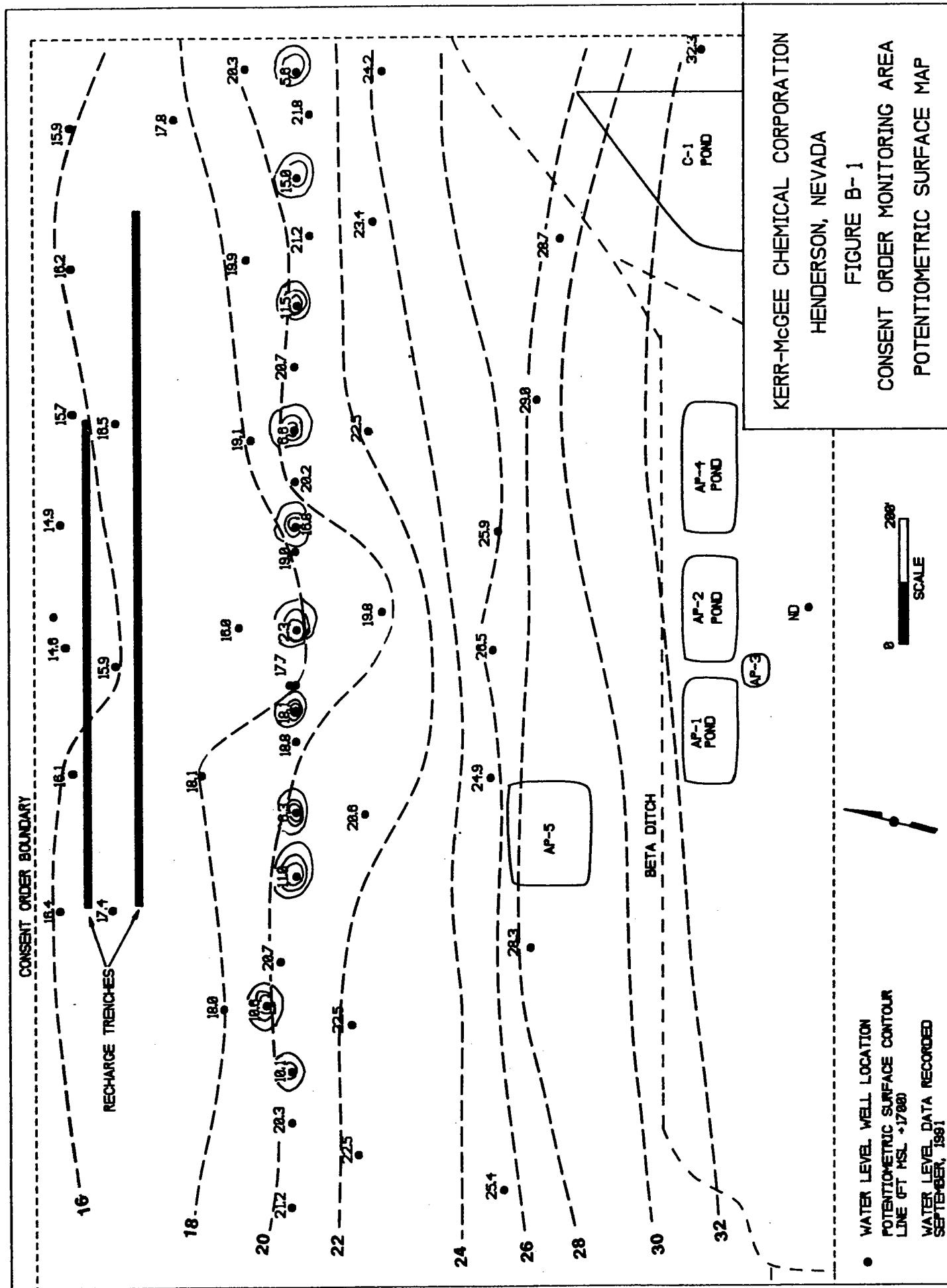
KERR-MCGEE CHEMICAL CORPORATION  
HENDERSON, NEVADA FACILITY  
GROUNDWATER ELEVATIONS

TOC-->	I-A		I-B		I-C		I-D		I-E		I-F		I-G		I-H		I-I		I-J		I-K	
	DTW	ELEV.	DTW	ELEV.																		
20-Jan-88	25.63	1724.43	25.65	1725.05	25.65	1725.35	25.75	1725.25	25.76	1724.46	25.81	1723.77	25.82	1723.60	25.87	1723.71	25.82	1723.33	25.86	1722.49		
05-Feb-88	25.42	1725.64	25.40	1725.59	26.46	1723.96	26.72	1721.82	26.80	1704.02	21.99	1723.59	26.96	1724.36	33.06	1717.99	18.87	1723.86	22.75	1721.22		
01-Mar-88	27.70	1723.34	27.36	1723.31	26.99	1724.65	29.16	1721.36	45.68	1704.54	24.55	1723.03	26.59	1723.43	33.20	1717.67	19.39	1724.06	23.39	1718.85		
19-Apr-88	28.42	1722.64	27.89	1722.80	27.75	1722.69	28.79	1720.75	29.69	1720.53	25.21	1722.37	27.83	1722.59	26.54	1722.53	20.02	1722.34	23.50	1724.45		
19-May-88	24.83	1722.23	25.67	1722.62	26.69	1724.41	30.65	1720.46	32.22	1718.00	25.14	1721.84	29.13	1721.29	30.12	1720.96	26.30	1722.06	23.62	1724.33		
07-Jun-88	29.12	1721.94	28.30	1722.39	26.25	1724.19	30.43	1720.11	32.76	1717.46	25.87	1721.71	37.40	1713.02	30.85	1724.22	19.80	1724.54	23.87	1724.86		
14-Jul-88	28.69	1721.37	27.62	1723.67	26.37	1724.07	33.12	1717.42	34.66	1715.62	24.50	1721.06	37.50	1712.92	32.97	1718.10	21.40	1721.56	25.90	1718.97		
06-Aug-88	28.80	1721.26	28.94	1721.75	26.49	1721.96	32.06	1718.46	33.10	1717.12	26.62	1720.98	38.01	1712.41	31.45	1719.62	21.48	1721.86	24.65	1723.30		
08-Sep-88	31.10	1719.96	28.90	1721.79	26.69	1723.84	35.19	1715.44	32.70	1717.52	24.75	1720.83	40.50	1709.92	38.80	1712.27	21.12	1722.24	23.54	1724.41		
16-Oct-88	24.75	1724.31	27.50	1722.89	26.89	1723.64	27.35	1723.19	29.00	1721.22	26.90	1720.78	30.30	1720.12	27.90	1723.17	20.25	1723.11	24.00	1723.95		
26-Nov-88	25.60	1725.46	29.40	1721.29	36.29	1716.24	32.20	1716.34	36.10	1712.12	27.80	1719.78	27.50	1722.92	26.70	1724.37	21.60	1721.76	25.60	1722.35		
13-Dec-88	30.00	1721.06	29.65	1721.94	37.75	1712.69	45.40	1705.14	41.50	1708.72	33.65	1713.93	40.65	1708.77	34.90	1716.17	21.60	1721.76	26.70	1721.25		
19-Jan-89	28.10	1722.96	27.70	1722.99	42.90	1707.54	39.55	1718.99	49.65	1709.57	28.20	1719.38	37.00	1713.42	25.40	1721.42	26.60	1721.95	22.95	1721.02		
23-Feb-89	28.20	1722.86	28.00	1722.89	44.10	1706.34	44.55	1705.99	45.70	1704.52	31.00	1716.58	28.00	1722.42	31.00	1720.97	26.00	1715.36	26.57	1721.36		
23-Mar-89	31.00	1720.06	30.40	1720.69	41.00	1709.44	32.20	1710.34	30.80	1710.42	23.10	1718.46	29.00	1721.42	30.60	1720.67	24.00	1718.56	25.20	1722.75		
23-Apr-89	30.70	1720.36	28.60	1721.69	25.90	1721.54	40.60	1710.54	35.70	1714.52	28.90	1717.68	28.00	1722.42	22.00	1723.07	29.80	1713.54	24.00	1723.95		
09-May-89	38.70	1721.34	28.60	1721.84	37.20	1713.34	39.10	1711.12	29.00	1718.58	27.60	1722.82	42.00	1709.67	28.40	1714.56	22.60	1721.76	34.50	1713.47		
01-Jun-89	29.25	1721.81	28.00	1721.44	39.40	1711.14	40.35	1709.67	28.00	1716.58	27.90	1722.52	28.90	1722.17	27.80	1715.56	24.80	1721.15	34.50	1713.47		
03-Jul-89	29.30	1721.76	28.10	1721.34	43.30	1710.24	42.90	1707.32	28.10	1718.48	27.95	1722.47	28.80	1722.27	28.80	1715.56	24.00	1719.95	24.30	1720.77		
16-Aug-89	30.30	1720.76	28.60	1720.69	41.00	1709.44	32.20	1710.34	30.80	1710.42	23.10	1718.46	29.00	1721.42	30.60	1720.67	31.00	1713.54	24.00	1723.95		
12-Sep-89	30.70	1720.36	28.60	1721.69	25.90	1721.54	40.60	1710.54	35.70	1714.52	28.90	1717.68	28.00	1722.42	30.60	1723.07	29.80	1713.54	24.00	1723.95		
25-Oct-89	31.25	1719.51	42.00	1709.69	43.35	1706.59	44.20	1704.34	36.25	1713.97	28.75	1716.83	30.25	1720.97	28.65	1722.42	26.80	1721.42	26.30	1721.65		
17-Nov-89	32.00	1719.66	41.00	1709.69	42.00	1706.44	31.95	1718.59	37.00	1713.22	29.00	1718.58	32.80	1719.22	31.85	1716.36	24.20	1723.75	32.60	1711.37		
07-Dec-89	42.00	1708.66	40.00	1702.69	50.00	1700.44	31.60	1718.94	39.00	1711.22	28.80	1718.76	37.00	1713.42	43.30	1707.77	24.10	1715.25	34.10	1709.57		
12-Jan-90	44.00	1707.06	36.00	1714.69	34.20	1714.24	44.20	1704.34	34.95	1715.72	28.85	1716.73	35.00	1715.42	37.45	1713.62	30.45	1719.97	27.35	1720.42		
23-Feb-90	44.00	1707.06	48.00	1702.69	44.00	1706.44	34.85	1713.69	42.00	1716.22	29.00	1718.58	35.10	1715.32	44.50	1706.57	32.90	1716.45	36.20	1711.75		
11-Jul-90	46.00	1705.66	47.00	1703.69	37.20	1713.24	34.20	1716.34	40.00	1716.92	44.60	1702.96	35.65	1714.77	44.50	1706.57	37.00	1709.57	37.00	1709.57		
11-Aug-90	44.15	1706.91	48.00	1702.69	42.00	1706.44	44.05	1706.39	45.30	1704.92	45.10	1702.46	30.70	1719.72	33.45	1711.62	34.50	1712.85	48.00	1699.95		
02-Nov-90	43.05	1708.01	40.00	1710.69	33.90	1714.54	44.15	1706.39	45.85	1704.37	42.40	1722.82	42.60	1708.47	34.00	1708.36	39.00	1708.95	33.00	1708.57		
15-Feb-91	41.10	1709.96	42.65	1706.64	44.00	1706.44	44.15	1706.39	45.25	1704.97	44.50	1703.06	40.50	1709.92	40.10	1710.97	31.00	1712.34	36.30	1708.65		
28-Jun-91	41.00	1710.06	42.10	1708.59	44.10	1706.34	44.15	1706.39	38.00	1712.22	42.00	1704.78	39.50	1710.92	44.55	1706.52	32.00	1711.36	42.10	1710.97		
25-Sep-91	41.00	1710.06	40.10	1710.59	39.40	1711.04	44.20	1706.34	32.15	1718.67	45.00	1702.58	33.60	1716.82	44.50	1706.57	33.00	1711.46	38.00	1708.97		
11-Dec-91	42.10	1708.96	43.00	1707.49	42.25	1706.19	44.20	1706.34	42.80	1707.42	43.00	1704.58	37.00	1713.42	37.25	1712.07	42.00	1701.34	37.25	1701.70		

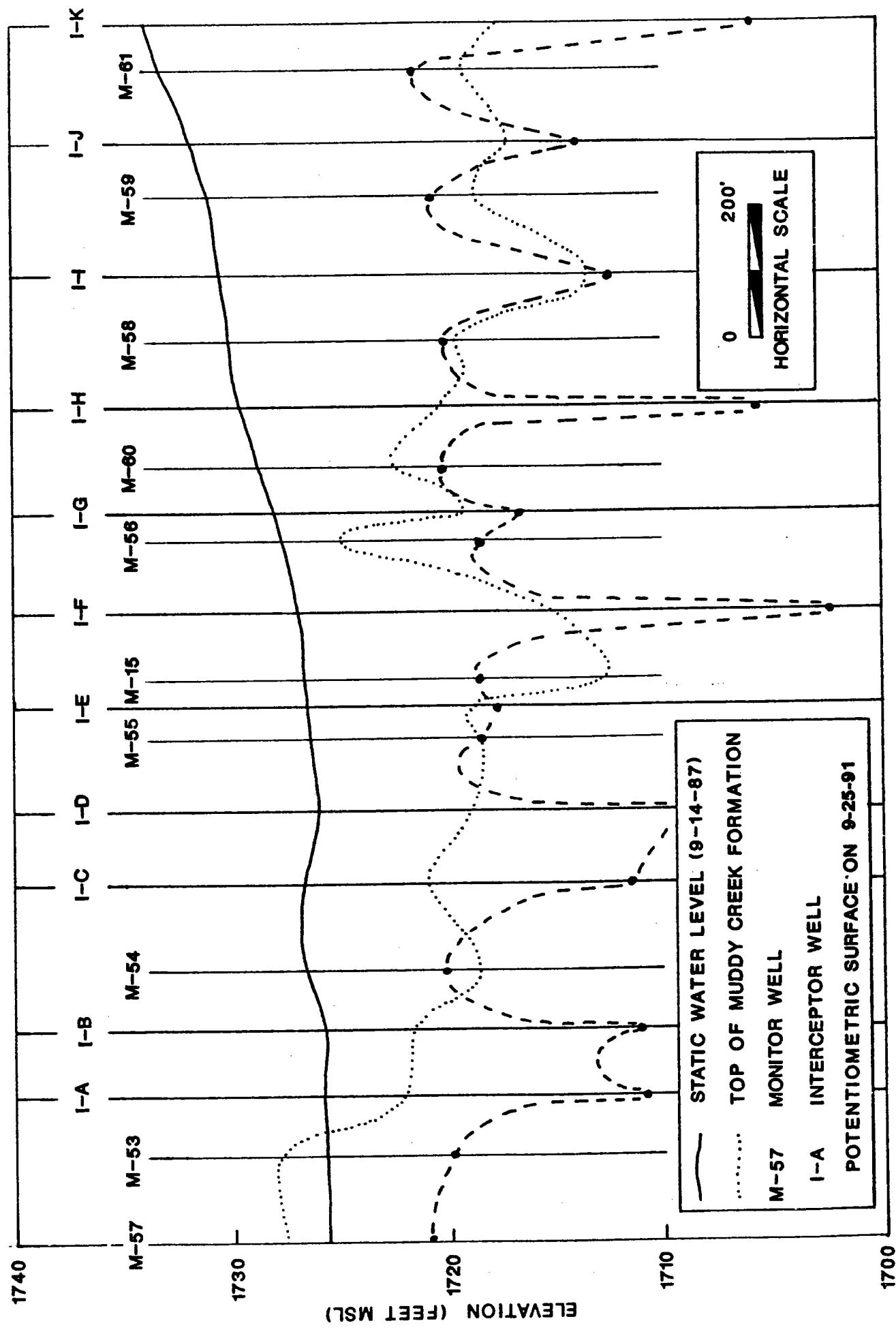
***APPENDIX B***

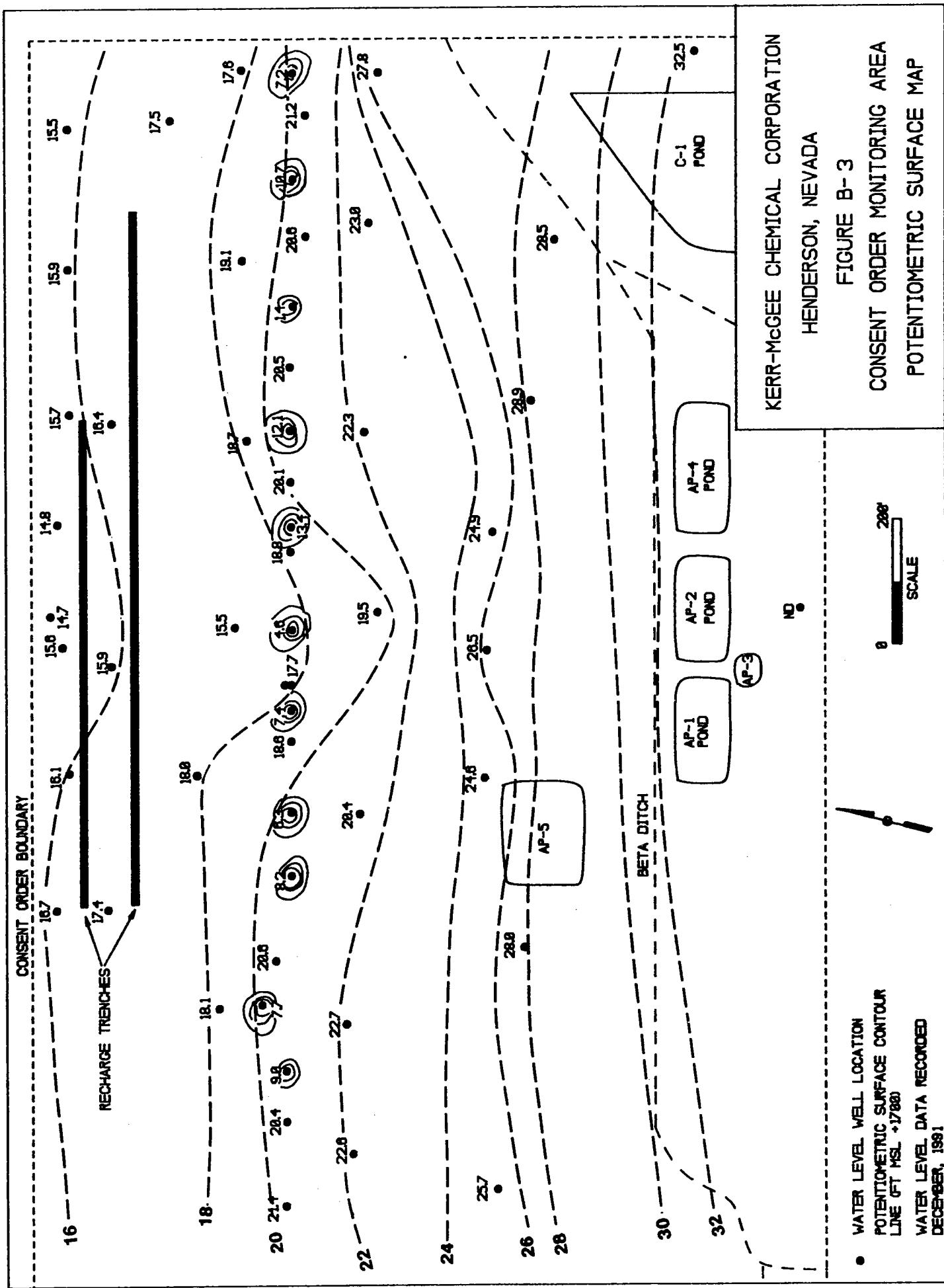
***POTENTIOMETRIC SURFACE MAPS***

***INTERCEPTOR AREA CROSS-SECTIONS***



KERR-MCGEE CHEMICAL CORPORATION - HENDERSON, NEVADA  
 GROUNDWATER INTERCEPTOR LINE CROSS-SECTION  
 FIGURE B-2





WATER LEVEL WELL LOCATION  
POTENTIOMETRIC SURFACE CONTOUR  
LINE (FT MSL +1780)  
WATER LEVEL DATA RECORDED  
DECEMBER, 1981

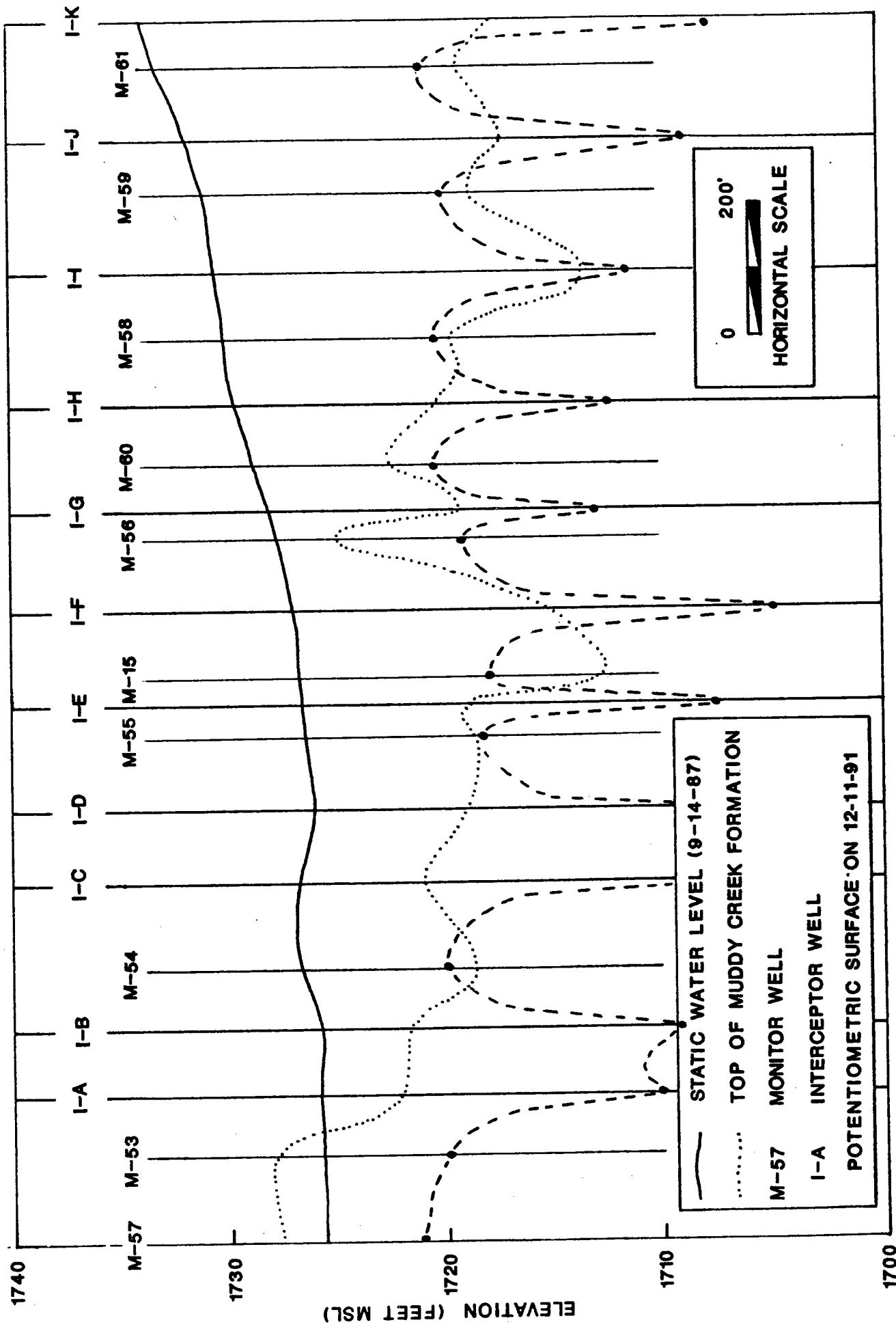
**FIGURE B-3**  
**CONSENT ORDER MONITORING AREA**  
**POTENTIOMETRIC SURFACE MAP**

KERR-MCGEE CHEMICAL CORPORATION  
HENDERSON, NEVADA

**FIGURE B-3**

**FIGURE B- 3**  
**ORDER MONITORING AREA**

KERR-MCGEE CHEMICAL CORPORATION - HENDERSON, NEVADA  
GROUNDWATER INTERCEPTOR LINE CROSS-SECTION  
**FIGURE B-4**



***APPENDIX C***  
***CONTINUOUS WATER LEVEL RECORDER CHARTS***

**CONTINUOUS WATER LEVEL RECORDER CHART**

**WELL M-78**

**10-9-91 TO 11-1-91**

DEPTH TO WATER AT 9:32 - 33.35  
OCTOBER 9, 1991

DEPTH TO WATER AT 16:00 - 33.30  
NOVEMBER 1, 1991

CONTINUOUS WATER LEVEL RECORDER CHART

WELL M-78

6-28-91 TO 8-31-91

Chart P-1

Water Level Recorder - Type P

DEPTH TO WATER AT 15:30 - 33.20  
JUNE 28, 1991

DEPTH TO WATER AT 7:50 - 33.45  
AUGUST 31, 1991

**CONTINUOUS WATER LEVEL RECORDER CHART**

**WELL M-78**

**8-31-91 TO 10-9-91**

DEPTH TO WATER AT 7:50 - 33.45  
AUGUST 31, 1991

DEPTH TO WATER AT 9:32 - 33.35  
OCTOBER 9, 1991

Printed in U.S.A.

Lieupoll & Stevens, Inc.

Chart F-1

Stevens Water Level Recorder —



**CONTINUOUS WATER LEVEL RECORDER CHART**

**WELL M-78**

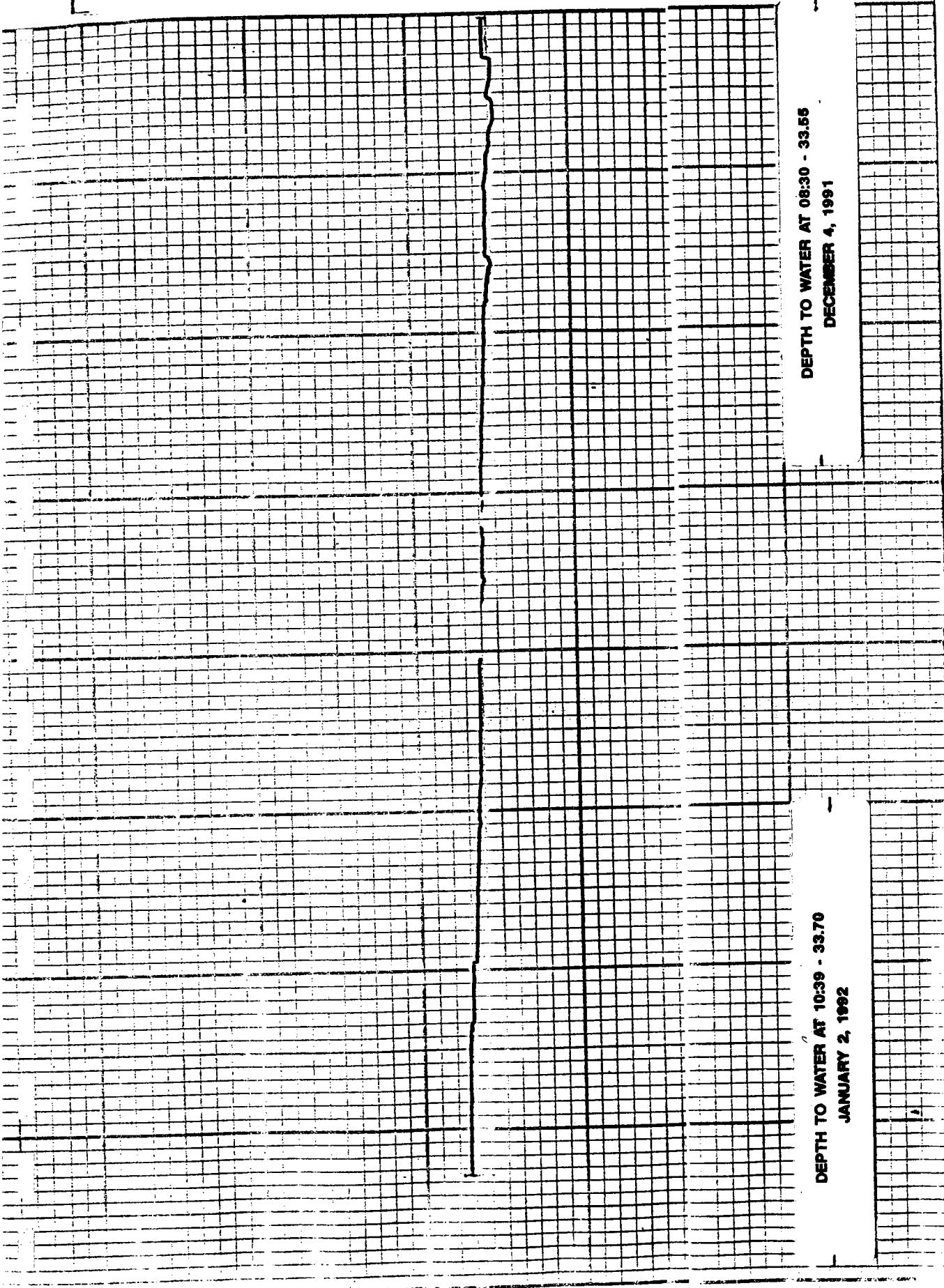
**11-1-91 TO 12-4-91**

**DEPTH TO WATER AT 16:00 - 33.30  
NOVEMBER 1, 1991**

**DEPTH TO WATER AT 08:30 - 33.55  
DECEMBER 4, 1991**

Leupold & Steve

Printed in U.S.A.



CONTINUOUS WATER LEVEL RECORDER CHART

WELL M-78

12-4-91 TO 1-2-92

**CONTINUOUS WATER LEVEL RECORDER CHART**

**WELL M-80**

**6-28-91 TO 8-31-91**

DEPTH TO WATER AT 15:30 - 29.15  
JUNE 28, 1991

DEPTH TO WATER AT 8:15 - 29.85  
AUGUST 31, 1991

Chart F-1

Level Recorder - Type F



**CONTINUOUS WATER LEVEL RECORDER CHART**

**WELL M-80**

**10-9-91 TO 11-1-91**

**DEPTH TO WATER AT 8:15 - 29.85  
AUGUST 31, 1991**

**DEPTH TO WATER AT 9:24 - 29.85  
OCTOBER 9, 1991**

**Chart F-1**

**Stevens Water Level F**

**CONTINUOUS WATER LEVEL RECORDER CHART**

**WELL M-80  
10-9-91 TO 11-1-91**

**DEPTH TO WATER AT 9:24 - 29.85  
OCTOBER 9, 1991**

**DEPTH TO WATER AT 16:00 - 29.90  
NOVEMBER 1, 1991**

**CONTINUOUS WATER LEVEL RECORDER CHART**

**WELL M-80**

**11-1-91 TO 12-4-91**

**DEPTH TO WATER AT 16:00 - 29.90  
NOVEMBER 1, 1991**

**DEPTH TO WATER AT 08:30 - 29.90  
DECEMBER 4, 1991**

**CONTINUOUS WATER LEVEL RECORDER CHART**

**WELL M-80**

**12-4-91 TO 1-2-92**

**DEPTH TO WATER AT 0830 - 29.90  
DECEMBER 4, 1991**

**DEPTH TO WATER AT 1039 - 29.84  
JANUARY 2, 1992**

**U.S. GLOBE**

***APPENDIX D***

***CHROMIUM CONCENTRATIONS IN***

***MONITOR WELLS AND INTERCEPTOR WELLS***

FIGURE D-1  
APPENDIX J WELL CHROMIUM CONCENTRATION

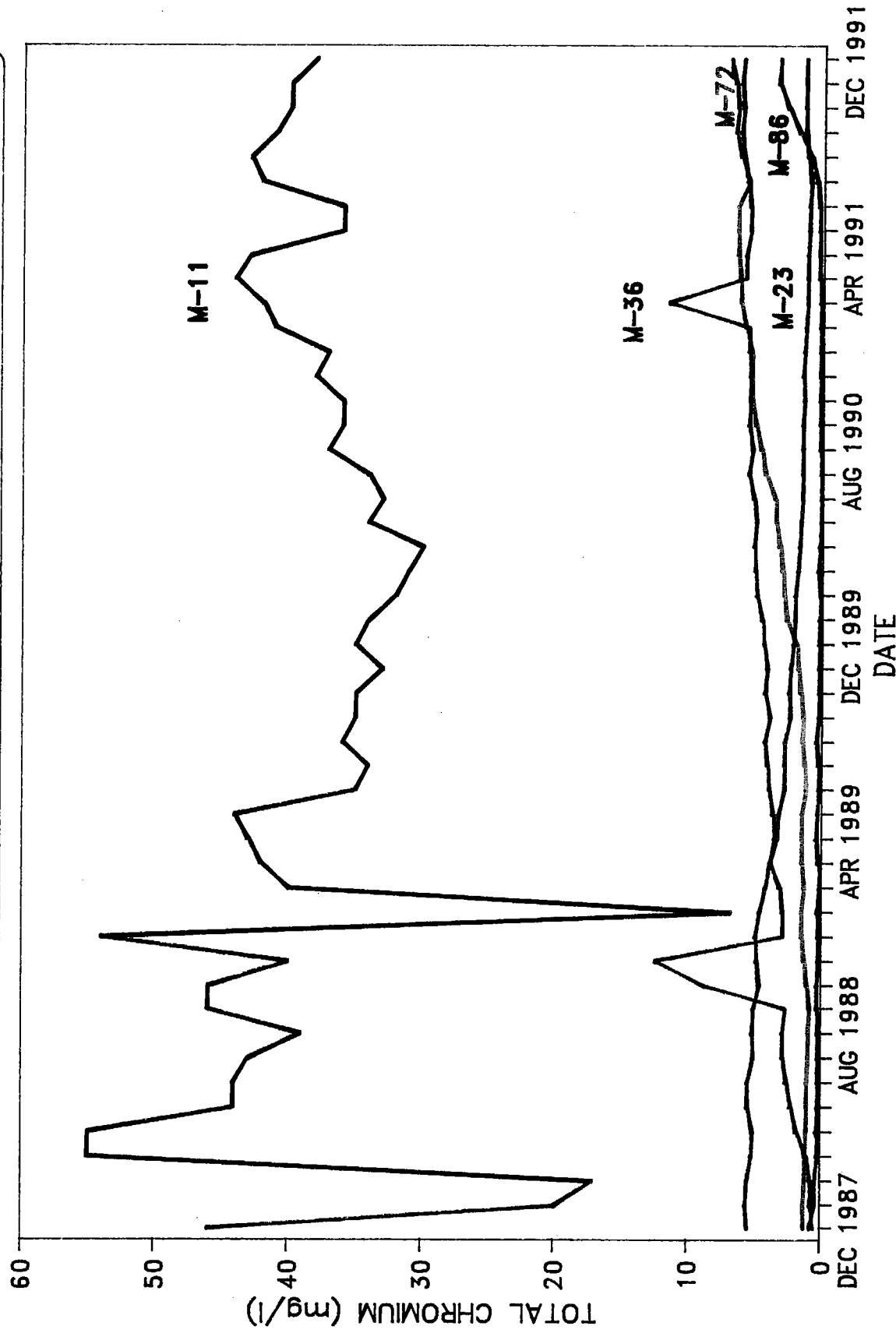
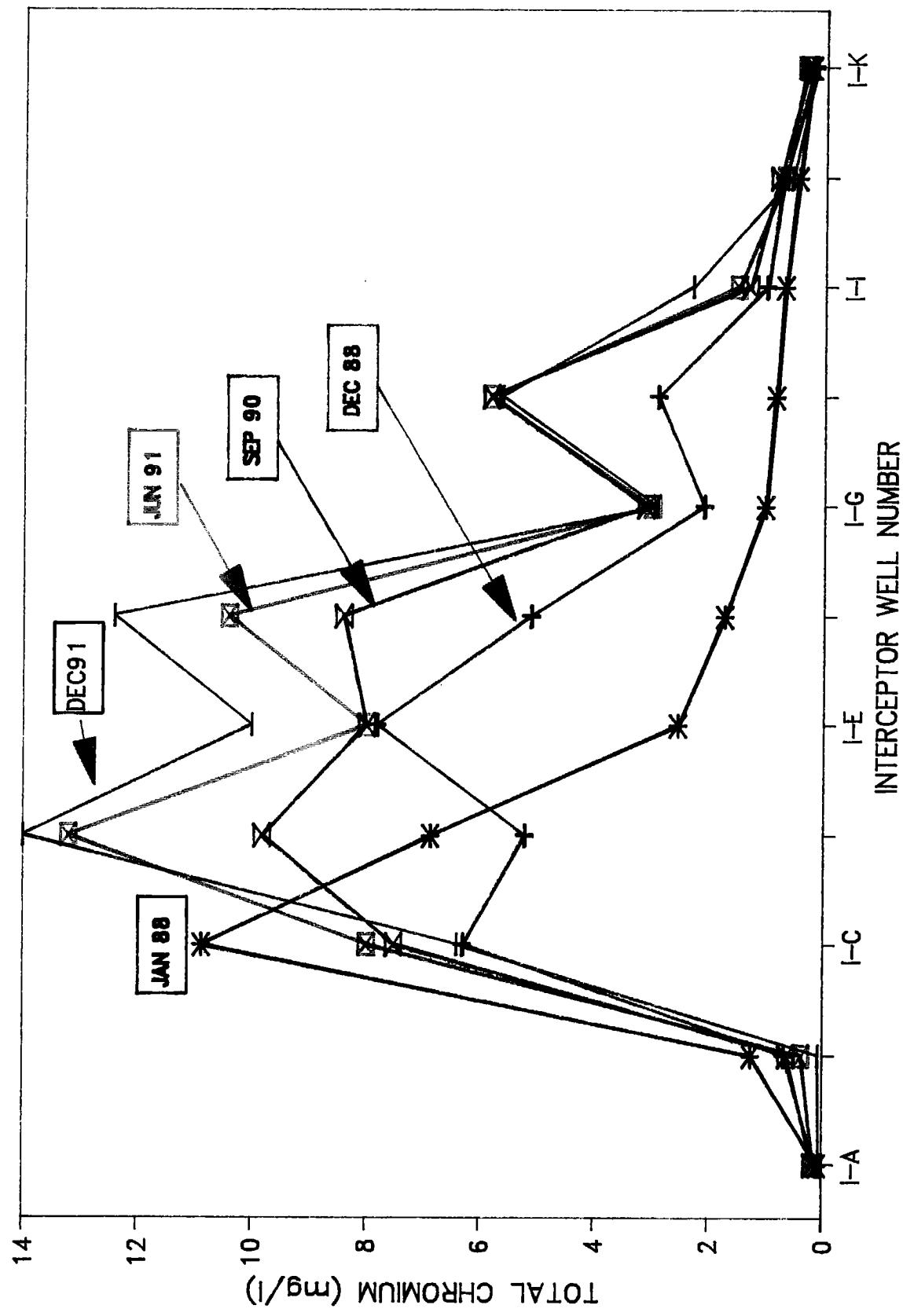
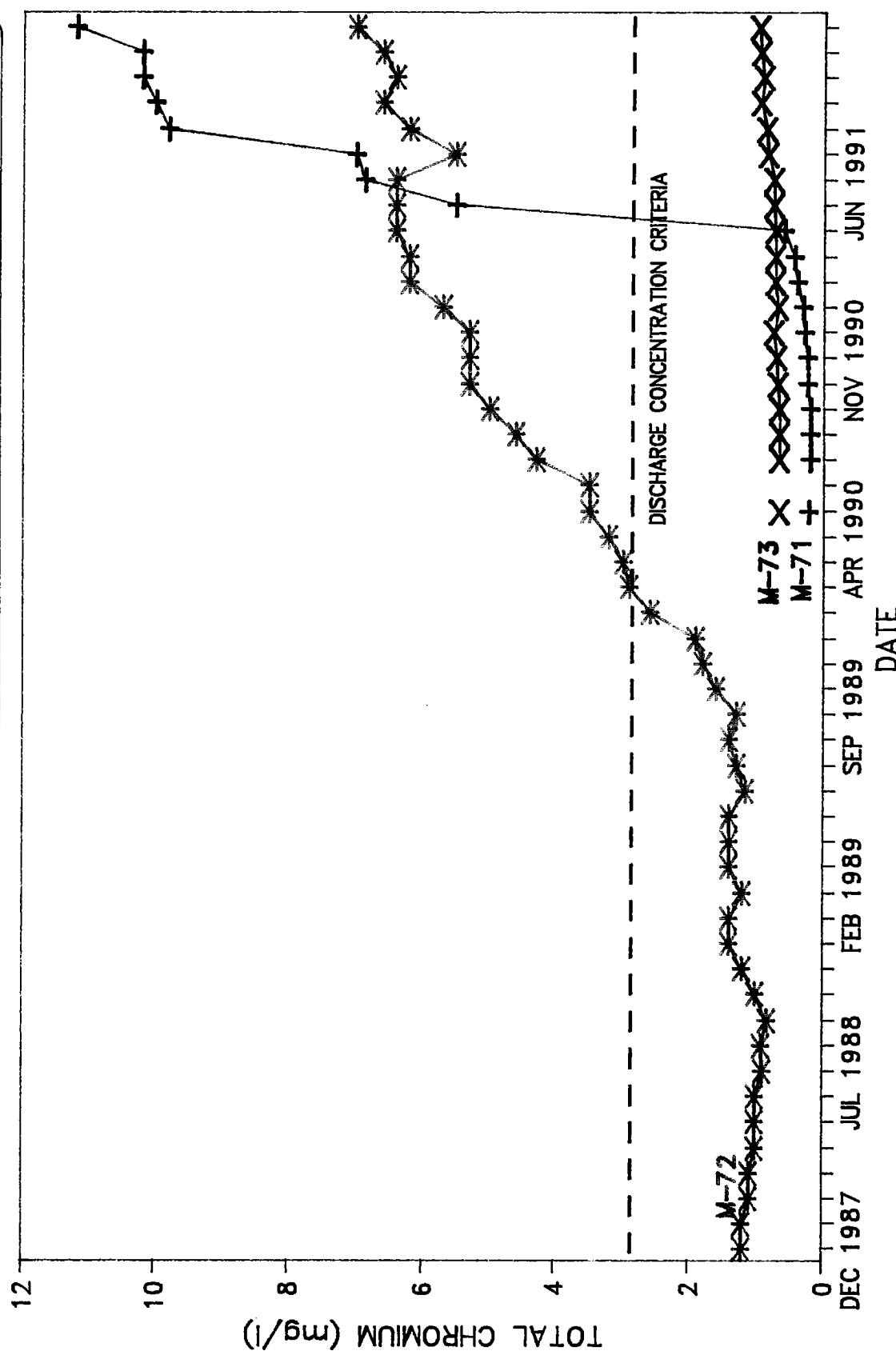


FIGURE D-2  
INTERCEPTOR LINE CHROMIUM CONCENTRATION



**FIGURE D-3**  
**MONITOR WELL CHROMIUM CONCENTRATION**



**FIGURE D-4**  
**MONITOR WELL CHROMIUM CONCENTRATION**

