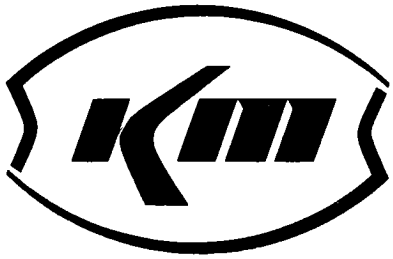
KERR-McGEE CORPORATION



SECOND QUARTER PERFORMANCE REPORT
CHROMIUM MITIGATION PROGRAM
KERR-McGEE CHEMICAL CORPORATION
HENDERSON, NEVADA

JULY 26, 1988

Engineering Services

SECOND QUARTER PERFORMANCE REPORT
CHROMIUM MITIGATION PROGRAM
KERR-McGEE CHEMICAL CORPORATION
HENDERSON, NEVADA

JULY 26, 1988

Submitted in Accordance with:

Chromium Mitigation Program
Consent Order

Prepared by:

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Engineering Services Division
Kerr-McGee Corporation

SECOND QUARTER 1988 PERFORMANCE REPORT
CHROMIUM MITIGATION PROGRAM
KERR-McGEE CHEMICAL CORPORATION
HENDERSON, NEVADA

INTRODUCTION

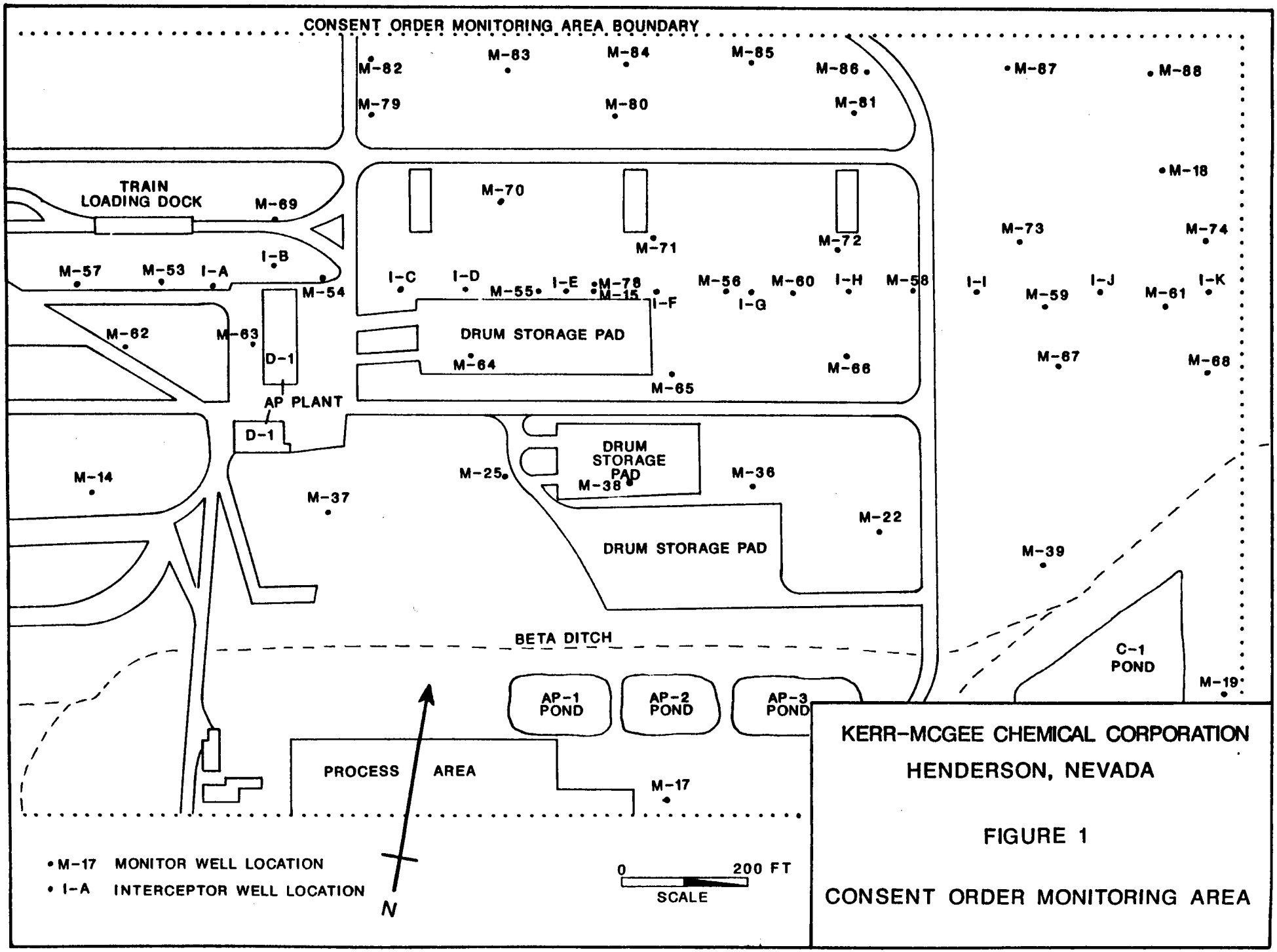
In accordance with the Consent Order for cleanup of chromium contaminated groundwater at the Henderson facility, finalized September 9, 1986, Kerr-McGee Chemical Corporation prepared a recovery system performance report on November 18, 1987, for submission to the Nevada Department of Environmental Protection. The November report noted that discharge of non-contact cooling water into the beta ditch, upgradient from the groundwater interceptor trench, resulted in significant infiltration to the groundwater, which had an adverse effect on the drawdown capability of the groundwater intercept system. Because of this finding, the discharge of cooling water into the beta ditch was discontinued on November 13, 1987. Groundwater elevations have been recorded approximately monthly thereafter; quarterly performance reports have been detailing interception response since that date. This submittal reports results of the chromium mitigation program for the second quarter of 1988.

GROUNDWATER SURFACE CONFIGURATION

Figure 1 describes 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 presents an inventory of all wells installed by Kerr-McGee at this facility. Appendix B lists all groundwater elevations recorded since September 1987 in wells within the consent order area. Water levels are recorded monthly.

Appendix C presents the drawdown data collected during the second quarter, 1988. Figure C-1 illustrates the potentiometric surface within the consent order monitoring area in April, based on data recorded April 19, 1988. Figure C-2 presents a cross-section of the interceptor line, illustrating the drawdown on that date. The drawdown is a result of continuous pumping of the interceptor wells. The static water level shown on Figure C-2 represents the reference elevation recorded on September 14, 1987, just prior to the startup of the groundwater recovery system. Figures C-3 and C-4 present a potentiometric surface map and cross-section for water level data recorded May 18, 1988. Figures C-5 and C-6 present the same data as reflected by measurements taken June 7, 1988.

Groundwater elevations listed in Appendix B clearly show that water levels throughout the consent order monitoring area have continued to decline since the discharge of water to the beta ditch was discontinued in November, 1987. Figures C-1 through C-6


CONSENT ORDER MONITORING AREA BOUNDARY
M-82
M-83
M-84
M-85
M-86
M-87
M-88
M-79
M-80
M-81
M-18
TRAIN LOADING DOCK
M-69
M-70
M-71
M-72
M-73
M-74
I-B
M-57
M-53
I-A
M-54
I-C
I-D
M-55
I-E
M-78
M-15
I-F
M-56
I-G
M-60
I-H
M-58
I-I
M-59
I-J
M-61
I-K
M-62
M-63
D-1
DRUM STORAGE PAD
M-64
M-65
M-66
M-67
M-68
AP PLANT
D-1
M-14
M-25
DRUM STORAGE PAD
M-38
M-36
M-37
M-22
DRUM STORAGE PAD
M-39
BETA DITCH
C-1 POND
M-19
AP-1 POND
AP-2 POND
AP-3 POND
PROCESS AREA
M-17
N
• M-17 MONITOR WELL LOCATION
• I-A INTERCEPTOR WELL LOCATION
0
200 FT
SCALE
KERR-MCGEE CHEMICAL CORPORATION
HENDERSON, NEVADA
FIGURE 1
CONSENT ORDER MONITORING AREA

document the increasing effectiveness of the groundwater interceptor system as groundwater levels throughout the Consent Order Monitoring Area decline.

CONTINUOUS WATER LEVEL RECORDERS

Wells M-78 and M-80 (Figure 1) are equipped with continuous water level recorders. Appendix D consists of copies of the recorder charts obtained during the second quarter of 1988. These charts illustrate the decline in water level that has been continuing since cooling water discharge to the beta ditch was discontinued on November 13, 1987. During the second quarter, water levels declined approximately 2.0 feet in well M-80 (near the recharge trench), and approximately 2.8 feet in well M-78, located in the interceptor line. Continuing declines are being observed at this time.

INTERCEPTOR SYSTEM PERFORMANCE

Figures C-1 through C-6 show increasing drawdown occurring with time in the interceptor area. Drawdown currently exceeds one foot throughout the interceptor area, relative to static levels recorded September 14, 1987. As groundwater elevations decline, drawdown will continue to increase in response to pumping of the interceptor wells. Kerr-McGee will monitor this decline in groundwater elevations, and update the potentiometric surface maps on a monthly basis to evaluate groundwater interception.

IMPACT OF DISPOSAL SYSTEM ON WATER LEVELS

Appendix J of the Consent Order, the Disposal System Contingency Plan, identifies specific monitor wells that are to be utilized to evaluate the impact of the downgradient recharge of treated water into the groundwater. In addition, Kerr-McGee Chemical Corporation identified wells in Appendix J that would be sampled and analyzed for chromium on a quarterly basis. Figure 2 illustrates the location of the Appendix J wells.

Appendix B of this report shows that groundwater elevations in the Appendix J monitor wells downgradient from the disposal system (M-47, M-23, and M-49) have continued to decline. No surface wetting downgradient from the disposal trenches has been observed. KMCC is confident that there exists no undesirable impact to groundwater elevations downgradient from the reinjection of treated water.

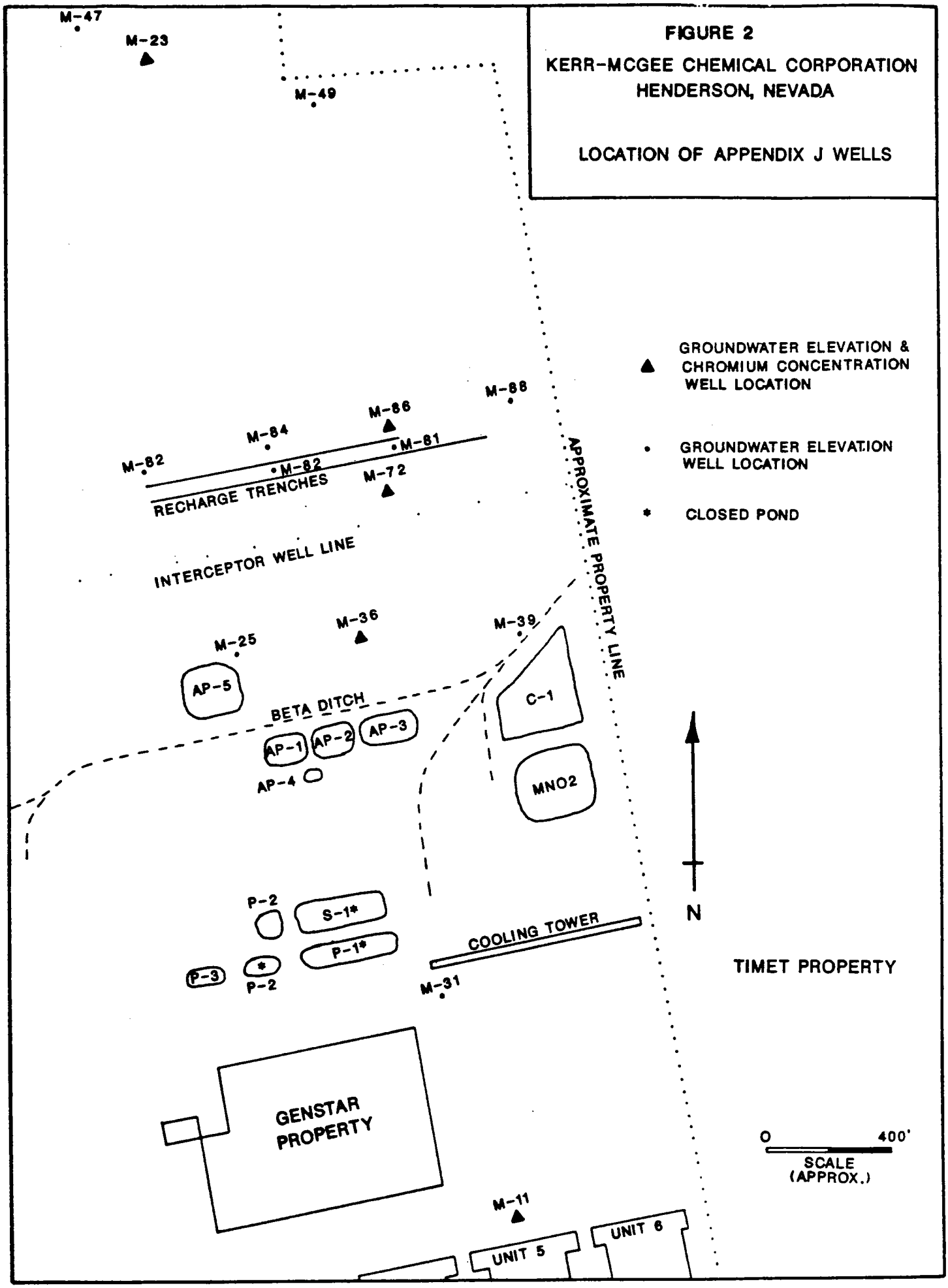


FIGURE 2
KERR-MCGEE CHEMICAL CORPORATION
HENDERSON, NEVADA
LOCATION OF APPENDIX J WELLS
GROUNDWATER ELEVATION & CHROMIUM CONCENTRATION WELL LOCATION
GROUNDWATER ELEVATION WELL LOCATION
CLOSED POND
M-47
M-23
M-49
M-88
M-86
M-84
M-82
M-81
M-82
M-72
RECHARGE TRENCHES
INTERCEPTOR WELL LINE
APPROXIMATE PROPERTY LINE
M-36
M-39
M-25
AP-5
BETA DITCH
AP-1
AP-2
AP-3
AP-4
C-1
MNO2
N
P-2
S-1*
P-1*
P-3
P-2
COOLING TOWER
M-31
TIMET PROPERTY
GENSTAR PROPERTY
0
400'
SCALE (APPROX.)
M-11
UNIT 5
UNIT 6

CHROMIUM TREATMENT SYSTEM EFFECTIVENESS

Since initiation of the groundwater recovery system (September 14, 1987), the discharge from the water treatment plant has been sampled at least three times per week. These samples have been analyzed for total and hexavalent chromium.

The Consent Order specifies the following concentration limits for the discharge water: Total Chromium 1.7 mg/l and Hexavalent Chromium 0.05 mg/l as a monthly average; Total Chromium 3.4 and Hexavalent Chromium 0.1 mg/l as a maximum single value on composite samples. Two consecutive monthly values exceeding these limits triggers implementation of the Treatment System Contingency Plan.

During the first quarter, 1988, physical modifications to the treatment plant were made to increase its efficiency and reliability. An additional electrolytic cell was added to the treatment plant to preclude shutdown during cleaning and replacement of electrodes.

Table 1 lists treatment plant feed and discharge flow data for the period April 1, 1988 through June 30, 1988. Table 1 reports excessive hexavalent chromium values during the week of April 1 through April 8. This value for hexavalent chromium exceeds the measured value for total chromium. Review of the results revealed that the hexavalent chromium standard formulated for that test had too great a concentration, resulting in greater concentrations in

TABLE 1
GROUNDWATER TREATMENT ANALYSIS
CHROMIUM MITIGATION PROGRAM
HENDERSON, NEVADA

WEEK OF	VOLUME TREATED (M gal.)	FEED CHROMIUM (mg/l)	TREATED EFFLUENT TOTAL (mg/l)	HEXAVALENT (mg/l)
Apr. 1 - Apr. 8	1090	2.66	0.13	0.28*
Apr. 9 - Apr. 15	1023	2.94	0.07	0.036
Apr. 16 - Apr. 22	1038	3.01	0.038	0.010
Apr. 23 - Apr. 29	1052	2.90	0.038	0.005
April, 1988 Average		2.88	0.069	0.083*
Apr. 30 - May 6	1021	2.14	0.036	0.0032
May 7 - May 13	973	2.73	0.030	0.0034
May 14 - May 20	981	2.93	0.53	0.44
May 21 - May 27	1030	2.95	0.02	0.002
May, 1988 Average		2.69	0.154	0.112
May 28 - June 3	1002	3.05	0.0175	0.0015
June 4 - June 10	1000	3.00	0.024	0.0026
June 11 - June 17	1055	2.62	0.020	0.002
June 18 - June 24	1008	2.70	0.020	0.0024
June 25 - July 1	1001	2.24	0.020	0.002
June, 1988 Average		2.72	0.020	0.0021

* Excessive values are addressed in the text.

the sample results. This errant value also caused the April average to exceed allowable limits. Therefore, based on the values for total chromium, and previous experience regarding efficiency of the treatment system, KMCC is confident that the hexavalent chromium values for this period was within permit limits. One excessive value is noted during the week of May 14 through May 20, 1988.

An independent analysis of the effectiveness of the groundwater treatment system in reducing chromium levelsin the groundwater is provided in the Appendix wells located downgradient from the intercepted groundwater plume. The first set of analytical data was obtained from these wells during a December 22, 1988 sampling event. Hexavalent chromium levels in the five wells specified for sampling for chromium concentration in Appendix J of the Consent Order are displayed in Table 2.

Hexavalent chromium levels will be monitored quarterly and presented graphically to aid in evaluating the influence of the treatment system on downgradient groundwater quality. Figures 3 and 4 depict graphically the chromium concentrations in these five groundwater monitor wells.

TABLE 2
TOTAL CHROMIUM CONCENTRATION
IN CONSENT ORDER APPENDIX J WELLS
KERR-McGEE CHEMICAL CORPORATION
HENDERSON, NEVADA

WELL	TOTAL CHROMIUM (ppm) Apr. 88	May 88	June 88
M-11	55.0	46.0	44.0
M-36	1.8	2.2	2.5
M-72	1.0	1.0	1.0
M-86	0.29	0.21	0.21
M-23	5.0	5.4	5.4

(Well locations are shown on Figure 2)

FIGURE 3

KERR-MCGEE CHEMICAL CORPORATION
HENDERSON, NEVADA
TOTAL CHROMIUM CONCENTRATION
APPENDIX J WELLS

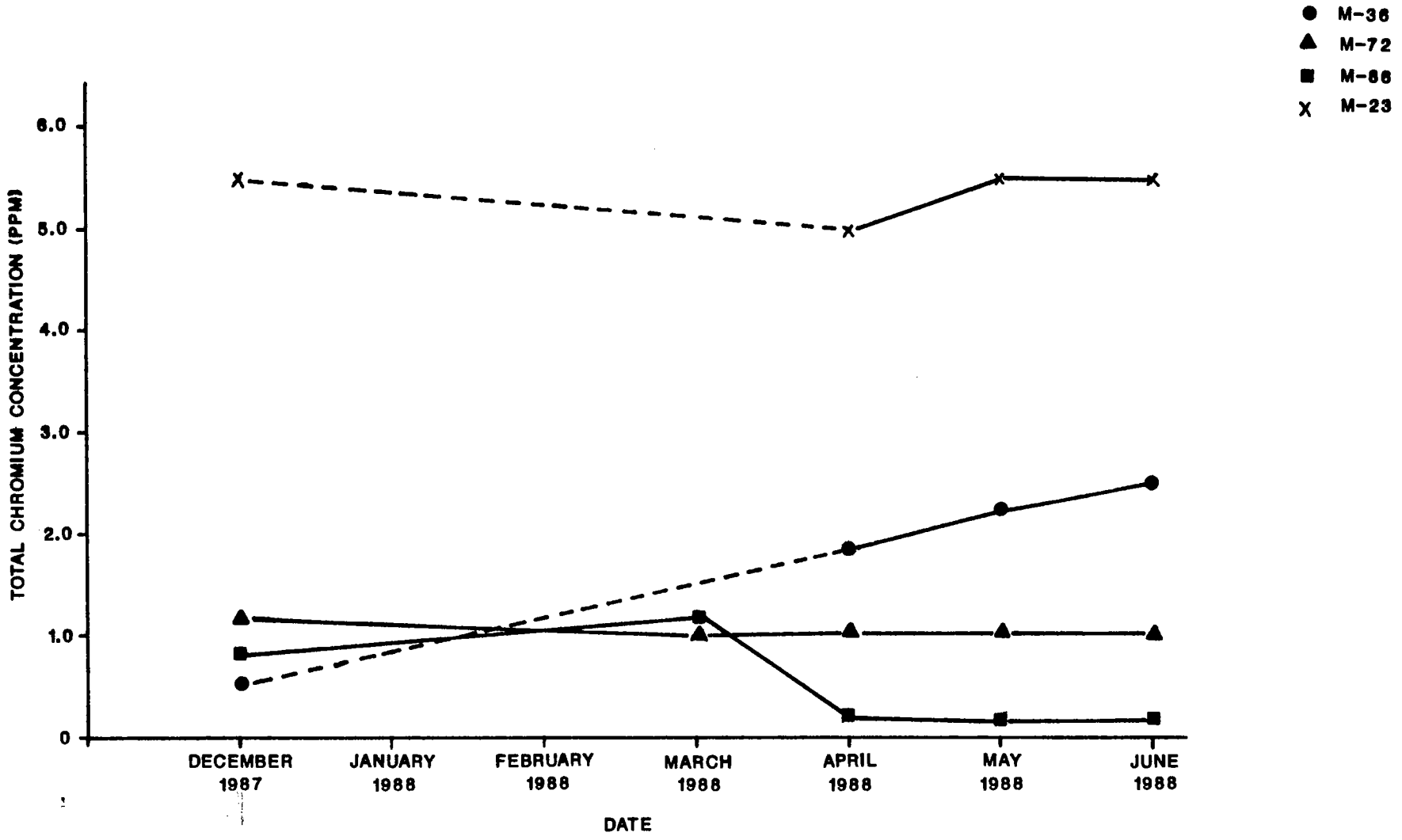
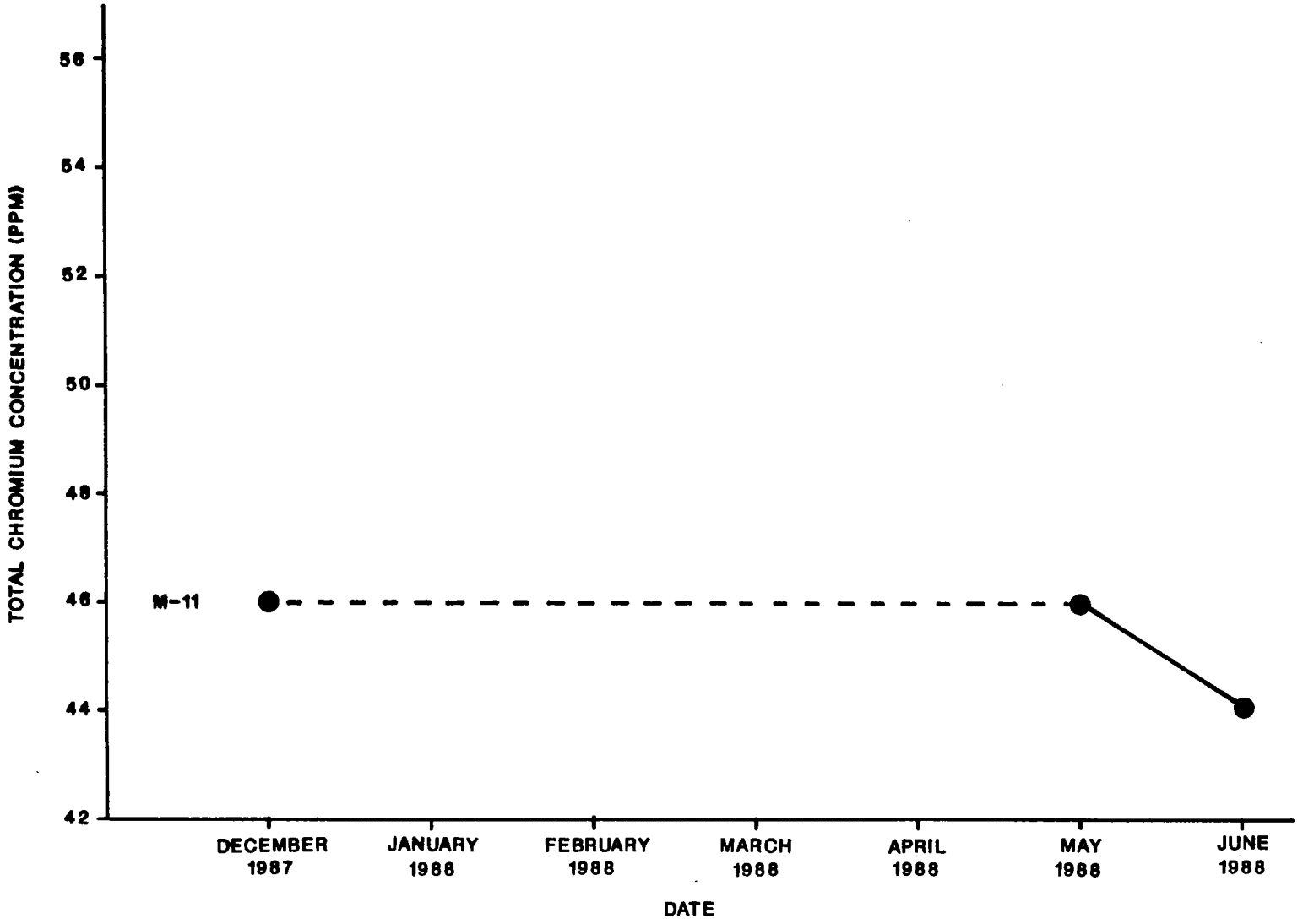


FIGURE 4

KERR-MCGEE CHEMICAL CORPORATION
HENDERSON, NEVADA
TOTAL CHROMIUM CONCENTRATION
APPENDIX J WELLS



CONCLUSIONS

Kerr-McGee Chemical Corporation continues to monitor declining regional (facility-wide) water levels in the interceptor system area. Monthly water elevations will be recorded, and groundwater control development will be monitored. KMCC is confident that groundwater interception and control effectiveness will continue to increase.

Treatment facility discharge concentrations have consistently remained below discharge limits. No further design modifications to the treatment plant facility are contemplated at this time, other than those that will facilitate maintenance.

No adverse impacts to downgradient groundwater elevations have been observed as a result of returning treated groundwater to the near surface aquifer via the recharge trenches.

APPENDIX A

MONITOR WELL INVENTORY

APPENDIX A
KERR-McGEE CHEMICAL CORPORATION
HENDERSON, NEVADA
WELL INVENTORY

WELL NO.	PURPOSE	DATE INSTALLED	WELL DEPTH FT. FROM TOC	CASING TYPE	SCREEN SIZE/TYPE	SCREENED INTERVAL (TOC)	GRAVEL PACK INTERVAL (TOC)	ELEVATION TOC (MSL)	ELEVATION TOP OF MUDDY CREEK	REMARKS
HR-1	RECOVERY WELL	9-30-86	47.0	6 IN. PVC	.020/SLOT	13.6-43.6	11.6-47.0	1751.07	1720.5	RENAMED I-H
HR-2	RECOVERY WELL	10-1-86	47.0	6 IN. PVC	.020/SLOT	17.8-44.8	14.3-47.0	1750.69	1721.5	RENAMED I-B
HR-3	RECOVERY WELL	10-1-86	47.0	6 IN. PVC	.020/SLOT	15.8-44.8	10.7-47.0	1750.54	1719.0	RENAMED I-D
HR-4	RECOVERY WELL	9-30-86	50.0	6 IN. PVC	.020/SLOT	11.7-43.7	11.0-50.0	1747.58	1714.8	RENAMED I-F
HR-5	RECOVERY WELL	12-11-86	42.5	6 IN. PVC	.020/SLOT	21.2-40.8	6.0-42.5	1751.06	1722.0	RENAMED I-A
HR-6	RECOVERY WELL	12-11-86	44.5	6 IN. PVC	.020/SLOT	13.1-42.5	10.4-44.5	1750.44	1720.8	RENAMED I-C
HR-7	RECOVERY WELL	12-11-86	49.0	6 IN. PVC	.020/SLOT	14.2-43.5	10.2-49.0	1750.22	1718.7	RENAMED I-E
HR-8	RECOVERY WELL	12-12-86	43.5	6 IN. PVC	.020/SLOT	9.5-39.1	7.0-43.5	1750.42	1719.4	RENAMED I-G
HR-9	RECOVERY WELL	12-10-86	45.0	6 IN. PVC	.020/SLOT	11.3-40.6	8.4-45.0	1743.36	1713.7	RENAMED I-I
HR-10	RECOVERY WELL	12-9-86	45.0	6 IN. PVC	.020/SLOT	11.2-40.6	8.7-45.0	1747.95	1716.9	RENAMED I-J
HR-11	RECOVERY WELL	12-12-86	43.0	6 IN. PVC	.020/SLOT	6.7-35.6	6.0-43.0	1743.97	1717.1	RENAMED I-K
I-A	RECOVERY WELL	12-11-86	42.7	6 IN. PVC	.020/SLOT	21.4-41.0	6.2-42.7	1751.06	1722.0	WAS HR-5
I-B	RECOVERY WELL	10-01-86	47.1	6 IN. PVC	.020/SLOT	17.9-44.9	14.4-47.1	1750.69	1721.5	WAS HR-2
I-C	RECOVERY WELL	12-11-86	44.4	6 IN. PVC	.020/SLOT	13.2-42.6	10.5-44.6	1750.44	1720.8	WAS HR-6
I-D	RECOVERY WELL	10-01-86	47.5	6 IN. PVC	.020/SLOT	16.3-45.3	11.2-47.5	1750.54	1719.0	WAS HR-3
I-E	RECOVERY WELL	12-11-86	49.0	6 IN. PVC	.020/SLOT	14.2-43.5	10.2-49.0	1750.22	1718.7	WAS HR-7
I-F	RECOVERY WELL	9-30-86	50.5	6 IN. PVC	.020/SLOT	12.2-44.2	11.5-50.5	1747.58	1714.8	WAS HR-4
I-G	RECOVERY WELL	12-12-86	44.3	6 IN. PVC	.020/SLOT	10.3-39.9	7.8-44.3	1750.42	1719.4	WAS HR-8
I-H	RECOVERY WELL	9-30-86	47.5	6 IN. PVC	.020/SLOT	14.1-44.1	12.1-47.5	1751.07	1720.5	WAS HR-1
I-I	RECOVERY WELL	12-10-86	45.5	6 IN. PVC	.020/SLOT	11.8-41.1	8.9-45.5	1743.36	1713.7	WAS HR-9
I-J	RECOVERY WELL	12-09-86	46.0	6 IN. PVC	.020/SLOT	12.2-41.6	9.7-46.0	1747.95	1716.9	WAS HR-10
I-K	RECOVERY WELL	12-12-86	44.1	6 IN. PVC	.020/SLOT	7.8-36.7	7.1-44.1	1743.97	1717.1	WAS HR-11

EXPLANATION:
TOC - TOP OF CASING
MSL - MEAN SEA LEVEL

NOTE: WHEN PUMPS WERE INSTALLED IN RECOVERY (INTERCEPTOR) WELLS, WELLS WERE RENAMED AND SANITARY SEALS WERE INSTALLED. TOC ELEVATION CHANGED WHEN SANITARY SEALS WERE INSTALLED. TOC-BASED MEASUREMENTS CHANGED CORRESPONDINGLY.

APPENDIX A
KERR-McGEE CHEMICAL CORPORATION
HENDERSON, NEVADA
WELL INVENTORY

WELL NO.	PURPOSE	DATE INSTALLED	WELL DEPTH FT. FROM TOC	CASING TYPE	SCREEN SIZE/TYPE	SCREENED INTERVAL (TOC)	GRAVEL PACK INTERVAL (TOC)	ELEVATION TOC (MSL)	ELEVATION TOP OF MUDDY CREEK	REMARKS
M-1	UPGDNT TO P&S PONDS	11-81	45.38	5 IN. STEEL	.040/SLOT	34.8-44.8	34.3-51.3	1798.68	1751	YIELD 1/2 GPM
M-2	DWNGDNT TO P&S PONDS	11-81	40.69	5 IN. STEEL	.040/SLOT	31.4-41.4	29.4-45.4	1781.20	1739	YIELD 15 GPM
M-3	DWNGDNT TO P&S PONDS	11-81	40.44	5 IN. STEEL	.040/SLOT	30.7-40.7	28.7-45.7	1780.46	1739	YIELD 15 GPM
M-4	DWNGDNT TO P&S PONDS	11-81	41.34	5 IN. STEEL	.040/SLOT	31.4-41.4	29.4-47.4	1780.41	1744	YIELD 3 GPM
M-5	UPGDNT HAZ WST FILL	6-1-82	40.25	5 IN. STEEL	.040/SLOT	29.8-39.8	28.9-43.9	1747.86	1721	
M-6	DWNGDNT HAZ WST FILL	6-2-82	35.90	5 IN. STEEL	.040/SLOT	26.1-36.1	26.1-44.1	1729.15	1696	
M-7	DWNGDNT HAZ WST FILL	6-3-82	35.23	5 IN. STEEL	.040/SLOT	26.0-36.0	24.0-38.0	1729.81	1699	
M-8	DWNGDNT TO P&S PONDS	6-14-82	40.96	5 IN. STEEL	.040/SLOT	31.2-41.2	29.2-46.2	1782.06	1735	
M-9	DWNGDNT TO P&S PONDS	6-15-82	39.83	5 IN. STEEL	.040/SLOT	30.4-40.4	28.4-45.4	1780.30	1744	
M-10	UPGDNT FROM PLANT	5-83	69.45	5 IN. STEEL	.090/SLOT	45.1-65.1	38.1-77.1	1834.76	1795	
M-11	DWNGDNT FROM UNIT 5	5-83	*58.0	5 IN. STEEL	.090/SLOT	35.2-55.2	27.2-62.2	1813.46	1775	
M-12	DWNGDNT FROM UNIT 4	5-83	49.90	5 IN. STEEL	.090/SLOT	39.5-49.5	34.5-67.5	1816.18	1778	
M-13	DWNGDNT FROM UNIT 3	5-83	54.76	5 IN. STEEL	.090/SLOT	29.9-49.9	26.9-56.9	1815.21	1775	
M-14	DWNGDNT FROM AP POND	5-83	39.24	2 IN. PVC	.020/SLOT	24.4-39.4	20.4-39.4	1758.83	1728	
M-15	DWNGDNT FROM AP POND	5-83	42.55	2 IN. PVC	.020/SLOT	28.4-43.4	22.4-43.4	1749.36	1713	TOC- WELL WIZARD
M-16	DWNGDNT FROM AP POND	5-83	*37.0	2 IN. PVC	.020/SLOT	*22- 37	*16-37		1729	DESTROYED
M-17	UPGDNT FROM AP PONDS	5-83	37.00	2 IN. PVC	.020/SLOT	29.8-44.8	20.8-44.8	1769.54	1712	
M-18		8-10-83	29.80	2 IN. PVC	.020/SLOT	16.1-26.1	10.1-30.1	1738.28	1712	
M-19		8-10-83	41.20	2 IN. PVC	.020/SLOT	17.8-37.8	16.3-45.3	1766.26	1729	TOC- WELL WIZARD
M-20		8-11-83	46.55	2 IN. PVC	.020/SLOT	25.4-45.4	20.0-50.0	1798.21	1756	
M-21		8-11-83	44.74	2 IN. PVC	.020/SLOT	22.2-42.2	20.2-47.2	1790.50	1751	
M-22		8-11-83	36.70	2 IN. PVC	.020/SLOT	13.1-33.1	13.3-39.3	1757.76	1726	TOC- WELL WIZARD
M-23		8-11-83	44.47	2 IN. PVC	.020/SLOT	9.4-37.4	8.6-45.6	1712.78	1672	TOC- WELL WIZARD
M-24		5-14-84	42.69	2 IN. PVC	.020/SLOT	27.2-42.2		1788.54	1750	
M-25	AP-5 MONITOR WELL	5-14-84	41.47	2 IN. PVC	.020/SLOT	28.0-43.0		1757.82	1727	TOC- WELL WIZARD
M-26		5-14-84	37 G.E.	2 IN. PVC	.020/SLOT				1729	

EXPLANATION:
TOC - TOP OF CASING
MSL - MEAN SEA LEVEL

APPENDIX A
KERR-McGEE CHEMICAL CORPORATION
HENDERSON, NEVADA
WELL INVENTORY

WELL NO.	PURPOSE	DATE INSTALLED	WELL DEPTH FT. FROM TOC	CASING TYPE	SCREEN SIZE/TYPE	SCREENED INTERVAL (TOC)	GRAVEL PACK INTERVAL (TOC)	ELEVATION TOC (MSL)	ELEVATION TOP OF MUDDY CREEK	REMARKS
M-27		5-14-84	30.92	2 IN. PVC	.020/SLOT	21.8-36.8		1740.47	<1699	
M-28	UNIT 6 MONITOR WELL	7-23-84	47.61	2 IN. PVC	.010/SLOT	29.8-49.8	30.8-48.8	1810.68	1780	
M-29	UNIT 6 MONITOR WELL	7-13-84	41.74	2 IN. PVC	.010/SLOT	22.4-39.4	15.4-42.8	1806.60	1785	
M-30	UNIT 6 MONITOR WELL	7-17-84	43.32	2 IN. PVC	.010/SLOT	32.0-44.7	31.8-44.8	1811.27	1786	
M-31	CR PLUME MONITOR	6-85	47.60	2 IN. PVC	.010/SLOT	32.4-47.4		1788.06	1748	
M-32	CR PLUME MONITOR	6-85	46.76	2 IN. PVC	.010/SLOT	31.9-46.9		1787.48	1752	
M-33	CR PLUME MONITOR	6-85	46.78	2 IN. PVC	.010/SLOT	32.0-47.0		1786.98	1750	
M-34	CR PLUME MONITOR	6-85	41.83	2 IN. PVC	.010/SLOT	26.9-41.9		1776.10	1739	
M-35	CR PLUME MONITOR	6-85	42.33	2 IN. PVC	.010/SLOT	26.9-41.9		1775.01	1740	
M-36	CR PLUME MONITOR	6-85	37.85	2 IN. PVC	.010/SLOT	22.9-37.9		1757.94	1728	
M-37	CR PLUME MONITOR	6-85	37.18	2 IN. PVC	.010/SLOT	22.2-37.2		1759.28	1730	
M-38	CR PLUME MONITOR	6-85	37.44	2 IN. PVC	.010/SLOT	22.6-37.6		1757.94	1728	
M-39	CR PLUME MONITOR	6-85	42.60	2 IN. PVC	.010/SLOT	22.6-37.6		1759.31	1723	
M-40	CR PLUME MONITOR	6-85	47.40	2 IN. PVC	.010/SLOT	32.4-47.4		1797.89	1764	
M-41	CR PLUME MONITOR	7-85	37.52	2 IN. PVC	.010/SLOT	7.6-37.6		1695.60	1669	
M-42	CR PLUME MONITOR	7-85	37.02	2 IN. PVC	.010/SLOT	4.4-34.4		1696.24	1668	
M-43	CR PLUME MONITOR	7-85	37.56	2 IN. PVC	.010/SLOT	4.9-34.9		1696.16	1669	
M-44	CR PLUME MONITOR	7-85	37.65	2 IN. PVC	.010/SLOT	5.1-35.1		1696.74	1674	
M-45	CR PLUME MONITOR	7-85	36.59	2 IN. PVC	.010/SLOT	4.2-34.2		1697.13	1668	
M-46	CR PLUME MONITOR	7-85	46.89	2 IN. PVC	.010/SLOT	4.2-44.2		1716.08	1672	
M-47	CR PLUME MONITOR	7-85	42.59	2 IN. PVC	.010/SLOT	0.1-40.0		1716.51	1672	
M-48	CR PLUME MONITOR	7-85	38.59	2 IN. PVC	.010/SLOT	6.1-36.1		1719.05	1685	
M-49	CR PLUME MONITOR	7-85	46.50	2 IN. PVC	.010/SLOT	4.0-44.0		1718.78	1680	
M-50	CR PLUME MONITOR	7-85	62.15	2 IN. PVC	.010/SLOT	39.6-59.6		1793.87	1751	
M-51	CR PLUME MONITOR	7-85	36.62	2 IN. PVC	.010/SLOT	3.9-33.9		1695.34	1667	
M-52	CR PLUME MONITOR	7-85	47.38	2 IN. PVC	.010/SLOT	34.5-44.5		1798.70	1764	

EXPLANATION:
TOC - TOP OF CASING
MSL - MEAN SEA LEVEL

APPENDIX A
KERR-McGEE CHEMICAL CORPORATION
HENDERSON, NEVADA
WELL INVENTORY

WELL NO.	PURPOSE	DATE INSTALLED	WELL DEPTH FT. FROM TOC	CASING TYPE	SCREEN SIZE/TYPE	SCREENED INTERVAL (TOC)	GRAVEL PACK INTERVAL (TOC)	ELEVATION TOC (MSL)	ELEVATION TOP OF MUDDY CREEK	REMARKS
M-53	INT'CPT MONITOR	9-27-86	41.0	2 IN. PVC	.010/SLOT	20.8-40.7	19.0-41.0	1751.56	1727.6	
M-54	INT'CPT MONITOR	9-29-86	46.0	2 IN. PVC	.010/SLOT	14.8-44.7	13.0-46.0	1748.93	1718.9	
M-55	INT'CPT MONITOR	9-29-86	45.0	2 IN. PVC	.010/SLOT	14.6-44.4	13.0-45.0	1749.35	1718.3	
M-56	INT'CPT MONITOR	9-28-86	40.0	2 IN. PVC	.010/SLOT	15.1-40.0	13.0-40.0	1746.60	1725.1	
M-57	INT'CPT MONITOR	9-30-86	41.0	2 IN. PVC	.010/SLOT	20.8-40.1	18.0-41.0	1752.29	1727.3	
M-58	INT'CPT MONITOR	9-30-86	45.0	2 IN. PVC	.010/SLOT	15.0-44.8	13.0-45.0	1749.25	1719.7	
M-59	INT'CPT MONITOR	9-28-86	40.0	2 IN. PVC	.010/SLOT	5.0-39.8	4.0-40.0	1743.01	1718.5	
M-60	INT'CPT MONITOR	12-10-86	43.0	2 IN. PVC	.010/SLOT	17.8-42.8	16.0-43.0	1750.13	1722.6	
M-61	INT'CPT MONITOR	12-9-86	41.0	2 IN. PVC	.010/SLOT	9.3-39.0	7.5-41.0	1745.55	1719.0	
M-62	INT'CPT MONITOR	12-17-86	33.0	2 IN. PVC	.010/SLOT	18.1-33.0	16.0-33.0	1752.92	1729.8	
M-63	INT'CPT MONITOR	12-18-86	40.0	2 IN. PVC	.010/SLOT	19.6-39.6	18.0-40.0	1750.59	1723.3	
M-64	INT'CPT MONITOR	12-19-86	38.0	2 IN. PVC	.010/SLOT	12.7-37.5	11.0-38.0	1749.76	1727.0	
M-65	INT'CPT MONITOR	12-16-86	40.0	2 IN. PVC	.010/SLOT	14.4-39.2	13.0-40.0	1752.88		
M-66	INT'CPT MONITOR	12-15-86	43.0	2 IN. PVC	.010/SLOT	17.5-42.5	16.0-43.0	1752.33	1727.7	
M-67	INT'CPT MONITOR	12-12-86	38.0	2 IN. PVC	.010/SLOT	7.8-37.6	6.0-38.0	1744.98	1740.5	
M-68	INT'CPT MONITOR	12-11-86	41.0	2 IN. PVC	.010/SLOT	11.2-41.0	10.2-41.0	1747.44	1720.9	
M-69	INT'CPT MONITOR	12-17-86	40.0	2 IN. PVC	.010/SLOT	19.9-39.5	18.0-40.0	1748.77	1717.3	
M-70	INT'CPT MONITOR	12-16-86	41.0	2 IN. PVC	.010/SLOT	15.3-40.2	14.0-41.0	1746.96	1714.5	
M-71	INT'CPT MONITOR	12-16-86	43.0	2 IN. PVC	.010/SLOT	17.5-42.2	16.0-43.0	1745.88	1711.2	
M-72	INT'CPT MONITOR	12-16-86	36.0	2 IN. PVC	.010/SLOT	10.1-35.0	9.0-36.0	1745.49	1719.0	
M-73	INT'CPT MONITOR	12-15-86	36.0	2 IN. PVC	.010/SLOT	11.0-36.0	9.0-36.0	1740.05	1694.7	
M-74	INT'CPT MONITOR	12-11-86	39.0	2 IN. PVC	.010/SLOT	9.2-39.0	8.0-39.0	1743.42	1717.4	
M-75	DWNGDNT TO P&S PONDS	8-20-87	53.9	2 IN. PVC	.010/SLOT	37.0-51.7	33.4-53.9			M-3 REPLACEMENT
M-76	DWNGDNT TO P&S PONDS	8-20-87	54.6	2 IN. PVC	.010/SLOT	37.8-52.5	37.0-54.6			M-4 REPLACEMENT
M-77		8-20-87	47.8	2 IN. PVC	.010/SLOT	30.9-45.6	29.6-47.8			M-20 REPLACEMENT
M-78	WTR LVL RECORDER	8-26-87	43.6	4 IN. PVC	.010/SLOT	21.5-41.5	14.0-43.6	1751.01		TOC- STEEL PLATE
M-79	RECHARGE MONITOR	8-21-87	37.6	2 IN. PVC	.010/SLOT	10.8-35.4	9.0-37.6	1742.93		

EXPLANATION:
TOC - TOP OF CASING
MSL - MEAN SEA LEVEL

APPENDIX A
KERR-McGEE CHEMICAL CORPORATION
HENDERSON, NEVADA
WELL INVENTORY

WELL NO.	PURPOSE	DATE INSTALLED	WELL DEPTH FT. FROM TOC	CASING TYPE	SCREEN SIZE/TYPE	SCREENED INTERVAL (TOC)	GRAVEL PACK INTERVAL (TOC)	ELEVATION TOC (MSL)	ELEVATION TOP OF MUDDY CREEK	REMARKS
M-80	WTR LVL RECORDER	8-26-87	43.7	4 IN. PVC	.010/SLOT	11.5-41.5	9.2-43.7	1745.73		TOC- STEEL PLATE
M-81	RECHARGE MONITOR	8-21-87	42.9	2 IN. PVC	.010/SLOT	11.2-40.7	8.6-42.9	1743.73		
M-82	RECHARGE MONITOR	8-24-87	33.3	2 IN. PVC	.010/SLOT	11.1-31.1	10.0-33.3	1739.38		
M-83	RECHARGE MONITOR	8-24-87	42.5	2 IN. PVC	.010/SLOT	10.8-40.3	10.0-42.5	1740.83		
M-84	RECHARGE MONITOR	8-24-87	36.6	2 IN. PVC	.010/SLOT	11.8-34.1	8.5-36.6	1739.63		
M-85	RECHARGE MONITOR	8-25-87	37.1	2 IN. PVC	.010/SLOT	10.4-34.9	9.2-37.1	1741.19		
M-86	RECHARGE MONITOR	8-25-87	43.0	2 IN. PVC	.010/SLOT	11.3-40.8	9.9-43.0	1742.73		
M-87	RECHARGE MONITOR	8-25-87	41.0	2 IN. PVC	.010/SLOT	9.3-38.3	8.6-41.0	1742.27		
M-88	RECHARGE MONITOR	8-26-87	39.0	2 IN. PVC	.010/SLOT	7.3-36.8	6.6-39.0	1737.99		
M-6A	DWNGDNT LANDFILL	12-18-86	46.0	2 IN. PVC	.010/SLOT	26.8-41.5	24.0-46.0			
M-7A	DWNGDNT LANDFILL	12-18-86	39.0	2 IN. PVC	.010/SLOT	20.1-35.1	18.0-39.0			

EXPLANATION:
TOC - TOP OF CASING
MSL - MEAN SEA LEVEL

APPENDIX B

GROUNDWATER ELEVATIONS

APPENDIX B
KERR-McGEE CHEMICAL CORPORATION
HENDERSON, NEVADA FACILITY
GROUNDWATER ELEVATIONS

	M-11		M-14		M-15		M-17		M-18	
TOC--->	1813.46		1758.83		1749.69		1769.54		1738.28	
	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.
14-Sep-87			29.42	1729.41	23.23	1726.46	28.56	1740.98	10.65	1727.63
19-Oct-87			28.89	1729.94	22.36	1727.33			11.00	1727.28
29-Oct-87			28.77	1730.06	22.15	1727.54	27.89	1741.65	10.93	1727.35
09-Nov-87			28.58	1730.25	21.84	1727.85	27.43	1742.11	10.17	1728.11
16-Dec-87	44.84	1768.62	28.26	1730.57	22.35	1727.34	30.58	1738.96	11.24	1727.04
20-Jan-88	44.78	1768.68	28.56	1730.27	23.29	1726.40	30.64	1738.90	11.73	1726.55
05-Feb-88	44.78	1768.68	28.70	1730.13	23.59	1726.10	31.12	1738.42	11.87	1726.41
01-Mar-88	44.76	1768.70	29.36	1729.47	24.03	1725.66	31.72	1737.82	12.13	1726.15
19-Apr-88	45.17	1768.29	30.14	1728.69	24.62	1725.07	32.42	1737.12	12.73	1725.55
18-May-88	45.13	1768.33	30.48	1728.35	25.05	1724.64	32.90	1736.64	13.08	1725.20
07-Jun-88	45.39	1768.07	30.67	1728.16	25.24	1724.45	33.03	1736.51	13.30	1724.98

	M-19		M-22		M-23		M-25		M-27	
TOC--->	1766.55		1758.13		1712.78		1758.15		1740.47	
	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.
14-Sep-87	25.18	1741.37	20.50	1737.63			25.69	1732.46	18.28	1726.19
19-Oct-87			20.37	1737.76			24.66	1733.49	14.80	1729.67
29-Oct-87	24.94	1741.61	20.66	1737.47			24.72	1733.43	14.74	1729.73
09-Nov-87	24.41	1742.14	20.10	1738.03			24.50	1733.65	14.39	1730.08
16-Dec-87	26.61	1739.94	22.68	1735.45			25.73	1732.42	14.30	1730.17
20-Jan-88	27.60	1738.95	23.78	1734.35			26.63	1731.52	15.36	1729.11
05-Feb-88	27.88	1738.67	24.20	1733.93	14.58	1698.20	27.07	1731.08	15.70	1728.77
01-Mar-88	28.36	1738.19	24.65	1733.48	14.52	1698.26	27.66	1730.49	15.88	1728.59
19-Apr-88	28.92	1737.63	25.25	1732.88	14.67	1698.11	28.33	1729.82	16.45	1728.02
18-May-88	29.34	1737.21	25.61	1732.52	14.94	1697.84	28.75	1729.40	16.95	1727.52
07-Jun-88	29.64	1736.91	26.19	1731.94	15.05	1697.73	29.00	1729.15	17.21	1727.26

	M-31		M-36		M-37		M-38		M-39	
TOC--->	1788.39		1757.94		1759.28		1757.88		1759.31	
	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.
14-Sep-87			23.67	1734.27	26.39	1732.89	24.35	1733.53	20.00	1739.31
19-Oct-87			22.93	1735.01	25.57	1733.71	23.36	1734.52	20.17	1739.14
29-Oct-87			23.15	1734.79	25.50	1733.78	23.66	1734.22	20.42	1738.89
09-Nov-87			22.81	1735.13	25.27	1734.01	23.38	1734.50	19.77	1739.54
16-Dec-87			24.52	1733.42	26.17	1733.11	24.94	1732.94	22.92	1736.39
20-Jan-88	39.34	1749.05	25.62	1732.32	26.98	1732.30	26.04	1731.84	23.80	1735.51
05-Feb-88	39.53	1748.86	25.95	1731.99	27.28	1732.00	26.37	1731.51	24.32	1734.99
01-Mar-88	39.68	1748.71	26.50	1731.44	27.87	1731.41	26.99	1730.89	24.81	1734.50
19-Apr-88	40.08	1748.31	27.14	1730.80	28.62	1730.66	27.60	1730.28	25.42	1733.89
18-May-88	40.36	1748.03	27.50	1730.44	28.90	1730.38	28.00	1729.88	25.83	1733.48
07-Jun-88	40.50	1747.89	27.73	1730.21	29.16	1730.12	28.27	1729.61	26.07	1733.24

APPENDIX B
KERR-McGEE CHEMICAL CORPORATION
HENDERSON, NEVADA FACILITY
GROUNDWATER ELEVATIONS

	M-46		M-47		M-49		M-53		M-54	
TOC--->	1716.08		1716.51		1718.78		1751.56		1748.93	
	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.
14-Sep-87							25.79	1725.77	22.15	1726.78
19-Oct-87							25.69	1725.87	21.88	1727.05
29-Oct-87							25.53	1726.03	21.70	1727.23
09-Nov-87							25.25	1726.31	21.38	1727.55
16-Dec-87	12.34	1703.74	13.20	1703.31	12.56	1706.22	25.25	1726.31	21.63	1727.30
20-Jan-88	12.61	1703.47	13.08	1703.43	12.53	1706.25	25.60	1725.96	22.14	1726.79
05-Feb-88	12.55	1703.53	13.04	1703.47	12.49	1706.29	25.73	1725.83	22.31	1726.62
01-Mar-88			13.00	1703.51	12.47	1706.31	26.21	1725.35	22.88	1726.05
19-Apr-88			13.10	1703.41	12.60	1706.18	26.75	1724.81	23.50	1725.43
18-May-88			13.29	1703.22	12.94	1705.84	27.09	1724.47	23.60	1725.33
07-Jun-88			13.47	1703.04	13.09	1705.69	27.25	1724.31	23.83	1725.10

	M-55		M-56		M-57		M-58		M-59	
TOC--->	1749.35		1749.60		1752.29		1749.25		1743.01	
	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.
14-Sep-87	22.72	1726.63	21.86	1727.74	26.91	1725.38	18.87	1730.38	11.80	1731.21
19-Oct-87	22.27	1727.08	21.41	1728.19	26.61	1725.68	18.92	1730.33	12.49	1730.52
29-Oct-87	22.05	1727.30	21.32	1728.28	26.49	1725.80	18.95	1730.30	12.52	1730.49
09-Nov-87	21.83	1727.52	21.05	1728.55	26.28	1726.01	18.63	1730.62	12.01	1731.00
16-Dec-87	22.51	1726.84	21.72	1727.88	26.22	1726.07	19.81	1729.44	13.54	1729.47
20-Jan-88	23.27	1726.08	22.48	1727.12	26.44	1725.85	20.58	1728.67	14.22	1728.79
05-Feb-88	23.74	1725.61	22.87	1726.73	26.67	1725.62	20.8	1728.45	14.48	1728.53
01-Mar-88	24.15	1725.20	23.35	1726.25	27.10	1725.19	21.09	1728.16	14.86	1728.15
19-Apr-88	24.75	1724.60	24.04	1725.56	27.58	1724.71	21.67	1727.58	15.54	1727.47
18-May-88	25.05	1724.30	24.57	1725.03	27.88	1724.41	22.12	1727.13	15.83	1727.18
07-Jun-88	25.27	1724.08	24.68	1724.92	27.97	1724.32	22.35	1726.90	16.08	1726.93

	M-60		M-61		M-62		M-63		M-64	
TOC--->	1750.13		1745.55		1752.92		1750.59		1749.76	
	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.
14-Sep-87	21.08	1729.05	12.53	1733.02	25.67	1727.25	22.52	1728.07	22.21	1727.55
19-Oct-87	20.66	1729.47	14.34	1731.21	25.39	1727.53	22.32	1728.27	21.84	1727.92
29-Oct-87	20.63	1729.50	14.25	1731.30	25.28	1727.64	22.17	1728.42	21.69	1728.07
09-Nov-87	20.38	1729.75	13.38	1732.17	25.01	1727.91	21.85	1728.74	21.51	1728.25
16-Dec-87	21.16	1728.97	15.82	1729.73	25.00	1727.92	22.13	1728.46	22.17	1727.59
20-Jan-88	22.06	1728.07	16.60	1728.95	25.51	1727.41	22.54	1728.05	22.91	1726.85
05-Feb-88	22.38	1727.75	17.12	1728.43	25.74	1727.18	22.78	1727.81	23.15	1726.61
01-Mar-88	22.80	1727.33	17.34	1728.21	26.18	1726.74	23.43	1727.16	23.87	1725.89
19-Apr-88	23.54	1726.59	17.81	1727.74	26.77	1726.15	24.08	1726.51	24.52	1725.24
18-May-88	23.82	1726.31	18.16	1727.39	27.05	1725.87	24.40	1726.19	24.74	1725.02
07-Jun-88	24.01	1726.12	18.35	1727.20	27.25	1725.67	24.55	1726.04	25.00	1724.76

APPENDIX B
KERR-McGEE CHEMICAL CORPORATION
HENDERSON, NEVADA FACILITY
GROUNDWATER ELEVATIONS

	M-65		M-66		M-67		M-68		M-69	
TOC--->	1752.88		1752.33		1744.98		1747.44		1748.77	
	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.
14-Sep-87	24.03	1728.85	20.82	1731.51	11.45	1733.53	10.96	1736.48	24.04	1724.73
19-Oct-87	23.63	1729.25	20.72	1731.61	12.17	1732.81	12.60	1734.84	23.98	1724.79
29-Oct-87	23.56	1729.32	20.78	1731.55	12.26	1732.72	12.39	1735.05	23.85	1724.92
09-Nov-87	23.26	1729.62	20.49	1731.84	11.66	1733.32	11.38	1736.06	23.44	1725.33
16-Dec-87	24.09	1728.79	21.82	1730.51	13.72	1731.26	15.27	1732.17	23.39	1725.38
20-Jan-88	24.97	1727.91	22.69	1729.64	14.59	1730.39	16.12	1731.32	23.61	1725.16
05-Feb-88	25.24	1727.64	22.97	1729.36	14.90	1730.08	16.53	1730.91	23.84	1724.93
01-Mar-88	25.89	1726.99	23.54	1728.79	15.33	1729.65	16.96	1730.48	24.31	1724.46
19-Apr-88	26.58	1726.30	23.92	1728.41	15.81	1729.17	17.50	1729.94	24.82	1723.95
18-May-88	27.00	1725.88	24.33	1728.00	16.18	1728.80	17.84	1729.60	25.07	1723.70
07-Jun-88	27.24	1725.64	24.52	1727.81	16.44	1728.54	18.08	1729.36	25.34	1723.43

	M-70		M-71		M-72		M-73		M-74	
TOC--->	1746.96		1745.88		1745.49		1740.05		1743.42	
	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.
14-Sep-87	21.47	1725.49	20.42	1725.46	17.12	1728.37	10.71	1729.34	12.44	1730.98
19-Oct-87	21.03	1725.93	18.50	1727.38	16.06	1729.43	10.85	1729.20	13.82	1729.60
29-Oct-87	20.77	1726.19	18.48	1727.40	16.04	1729.45	10.84	1729.21	13.69	1729.73
09-Nov-87	20.45	1726.51	18.15	1727.73	15.66	1729.83	10.30	1729.75	13.81	1729.61
16-Dec-87	21.00	1725.96	16.20	1729.68	16.43	1729.06	11.41	1728.64	14.71	1728.71
20-Jan-88	21.61	1725.35	19.37	1726.51	17.22	1728.27	12.02	1728.03	15.40	1728.02
05-Feb-88	21.97	1724.99	19.77	1726.11	17.46	1728.03	12.27	1727.78	15.63	1727.79
01-Mar-88	22.53	1724.43	20.11	1725.77	17.77	1727.72	12.50	1727.55	16.00	1727.42
19-Apr-88	23.10	1723.86	20.75	1725.13	18.31	1727.18	13.12	1726.93	16.56	1726.86
18-May-88	23.34	1723.62	21.30	1724.58	18.73	1726.76	13.55	1726.50	16.80	1726.62
07-Jun-88	23.55	1723.41	21.55	1724.33	18.97	1726.52	13.82	1726.23	17.05	1726.37

	M-78		M-79		M-80		M-81		M-82	
TOC--->	1751.01		1742.93		1745.73		1743.73		1739.38	
	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.
14-Sep-87	24.88	1726.13	20.02	1722.91	22.67	1723.06	18.70	1725.03	17.64	1721.74
19-Oct-87	24.01	1727.00	19.22	1723.71	18.44	1727.29	14.64	1729.09	16.76	1722.62
29-Oct-87	23.80	1727.21	19.02	1723.91	18.53	1727.20	14.37	1729.36	16.59	1722.79
09-Nov-87			18.25	1724.68	18.21	1727.52	13.94	1729.79	15.98	1723.40
16-Dec-87	24.00	1727.01	17.66	1725.27	18.05	1727.68	14.00	1729.73	15.58	1723.80
20-Jan-88	24.94	1726.07	17.54	1725.39	20.80	1724.93	15.13	1728.60	15.74	1723.64
05-Feb-88	25.24	1725.77	17.88	1725.05	21.23	1724.50	15.18	1728.55	15.98	1723.40
01-Mar-88	25.68	1725.33	18.37	1724.56	19.72	1726.01	15.46	1728.27	16.37	1723.01
19-Apr-88	24.75	1726.26	18.87	1724.06	20.41	1725.32	16.08	1727.65	16.85	1722.53
18-May-88	26.23	1724.78	19.47	1723.46	21.05	1724.68	16.80	1726.93	17.28	1722.10
07-Jun-88	26.23	1724.78	19.70	1723.23	21.20	1724.53	17.11	1726.62	17.47	1721.91

APPENDIX B
KERR-McGEE CHEMICAL CORPORATION
HENDERSON, NEVADA FACILITY
GROUNDWATER ELEVATIONS

	M-83		M-84		M-85		M-86		M-87		M-88	
TOC--->	1740.83		1739.63		1741.19		1742.73		1742.27		1737.99	
	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.
14-Sep-87	18.86	1721.97	17.24	1722.39	18.44	1722.75	18.37	1724.36	17.12	1725.15	13.05	1724.94
19-Oct-87	16.47	1724.36	13.85	1725.78	14.63	1726.56	15.33	1727.40	16.06	1726.21	13.87	1724.12
29-Oct-87	16.03	1724.80	13.80	1725.83	14.49	1726.70	16.18	1726.55	15.92	1726.35	13.79	1724.20
09-Nov-87	15.85	1724.98	14.46	1725.17	14.11	1727.08	14.65	1728.08	15.13	1727.14	12.15	1725.84
16-Dec-87	15.73	1725.10	14.37	1725.26	14.04	1727.15	14.83	1727.90	15.62	1726.65	12.59	1725.40
20-Jan-88	16.52	1724.31	14.42	1725.21	15.14	1726.05	15.71	1727.02	16.10	1726.17	13.02	1724.97
05-Feb-88	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	17.05	1723.78	15.00	1724.63	15.63	1725.56	16.00	1726.73	16.32	1725.95	13.41	1724.58
19-Apr-88	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	18.00	1722.83	16.00	1723.63	16.80	1724.39	16.23	1726.50	17.31	1724.96	14.41	1723.58
07-Jun-88	18.24	1722.59	16.32	1723.31	17.11	1724.08	17.50	1725.23	17.63	1724.64	14.57	1723.42

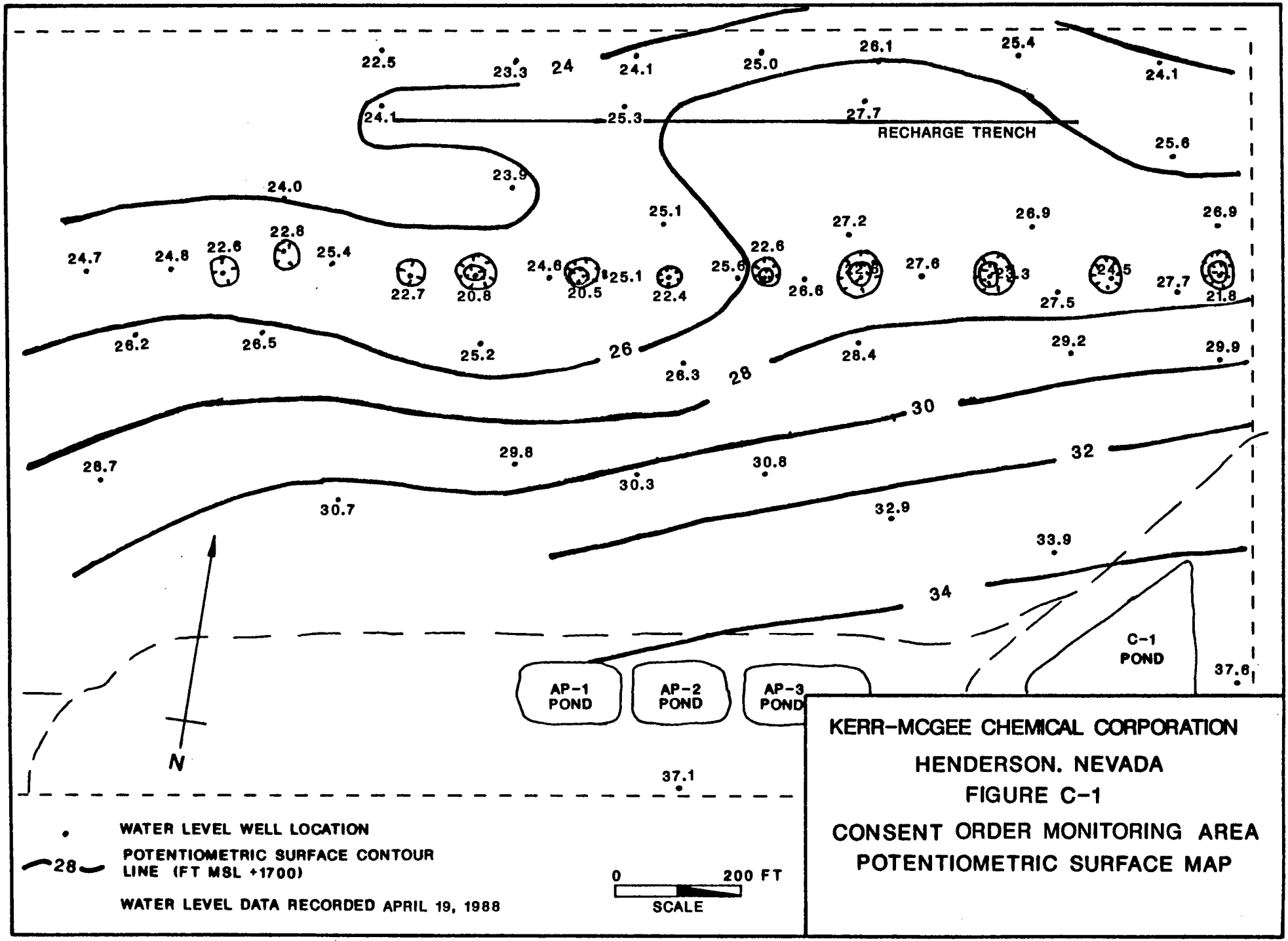
	I-A		I-B		I-C		I-D		I-E		I-F	
TOC--->	1751.06		1750.69		1750.44		1750.54		1750.22		1747.58	
	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.
14-Sep-87	25.06	1726.00	24.98	1725.71	23.86	1726.58	24.36	1726.18	23.53	1726.69	20.73	1726.85
19-Oct-87	27.18	1723.88	26.73	1723.96	24.58	1725.86	26.48	1724.06	36.80	1713.42	22.99	1724.59
29-Oct-87	27.01	1724.05	26.45	1724.24	24.33	1726.11	26.20	1724.34	35.80	1714.42	22.99	1724.59
09-Nov-87												
16-Dec-87	26.45	1724.61	26.49	1724.20	25.55	1724.89	27.66	1722.88	45.58	1704.64	23.17	1724.41
20-Jan-88	26.63	1724.43	26.66	1724.03	26.06	1724.38	28.29	1722.25	45.76	1704.46	23.81	1723.77
05-Feb-88	25.42	1725.64	25.40	1725.29	26.46	1723.98	28.72	1721.82	46.20	1704.02	23.99	1723.59
01-Mar-88	27.70	1723.36	27.38	1723.31	26.99	1723.45	29.16	1721.38	45.68	1704.54	24.55	1723.03
19-Apr-88	28.42	1722.64	27.89	1722.80	27.75	1722.69	29.79	1720.75	29.69	1720.53	25.21	1722.37
18-May-88	28.83	1722.23	28.07	1722.62	26.03	1724.41	30.06	1720.48	32.22	1718.00	25.74	1721.84
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

	I-G		I-H		I-I		I-J		I-K	
TOC--->	1750.42		1751.07		1743.36		1747.95		1743.97	
	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.	DTW	ELEV.
14-Sep-87	22.13	1728.29	21.12	1729.95	12.67	1730.69	16.08	1731.87	10.21	1733.76
19-Oct-87	23.63	1726.79	24.90	1726.17	15.35	1728.01	20.51	1727.44	17.15	1726.82
29-Oct-87	24.19	1726.23	24.96	1726.11	15.48	1727.88	20.52	1727.43	16.89	1727.08
09-Nov-87										
16-Dec-87	24.59	1725.83	27.10	1723.97	17.63	1725.73	21.75	1726.20	19.92	1724.05
20-Jan-88	25.62	1724.80	30.07	1721.00	18.65	1724.71	22.62	1725.33	21.48	1722.49
05-Feb-88	26.06	1724.36	33.08	1717.99	18.87	1724.49	22.90	1725.05	22.75	1721.22
01-Mar-88	26.59	1723.83	33.20	1717.87	19.30	1724.06	23.39	1724.56	24.02	1719.95
19-Apr-88	27.83	1722.59	28.54	1722.53	20.02	1723.34	23.50	1724.45	22.17	1721.80
18-May-88	29.13	1721.29	30.12	1720.95	20.30	1723.06	23.62	1724.33	22.79	1721.18
07-Jun-88	37.40	1713.02	30.85	1720.22	19.80	1723.56	23.87	1724.08	25.20	1718.77

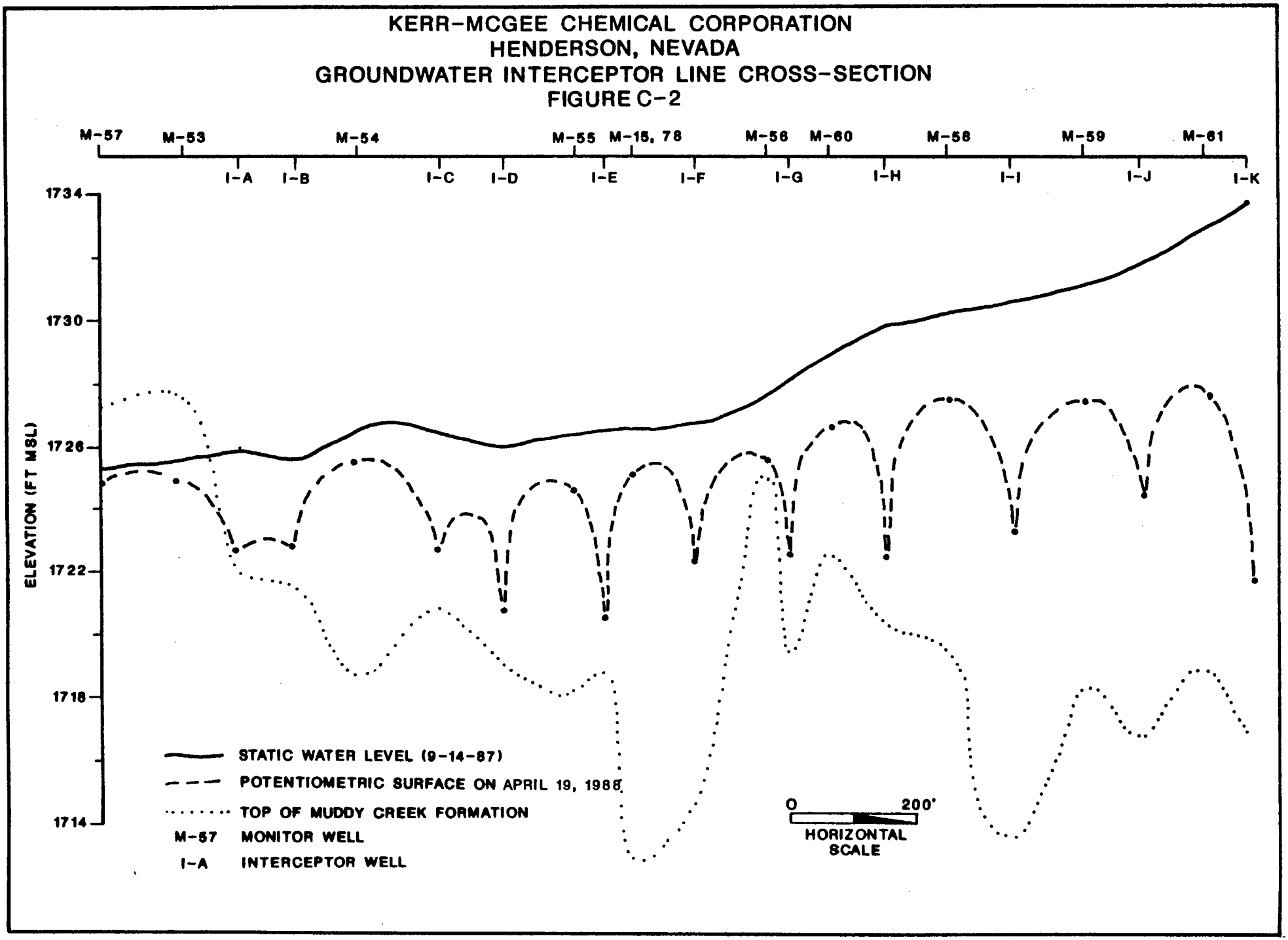
APPENDIX C

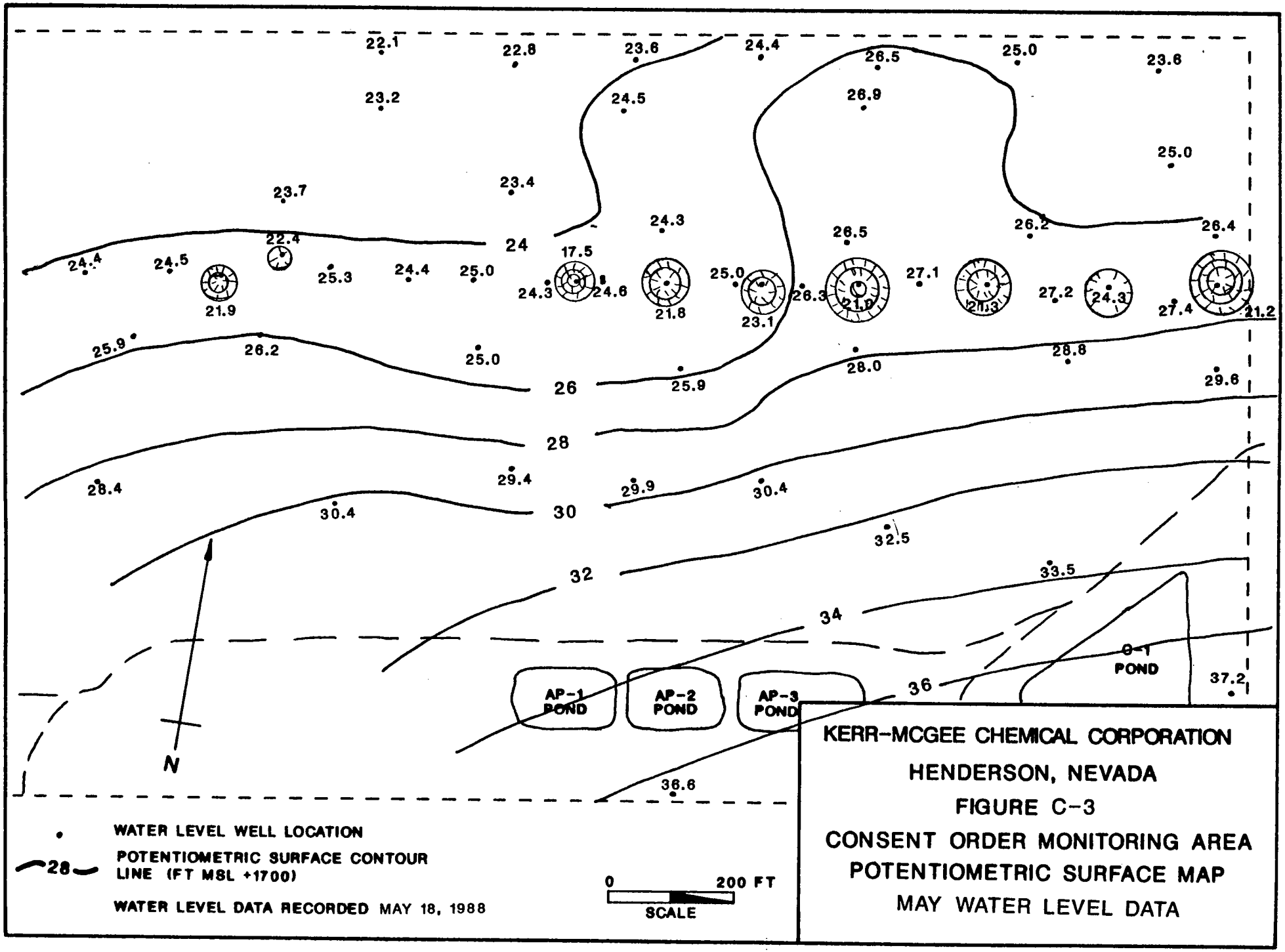
POTENTIOMETRIC SURFACE MAPS

INTERCEPTOR AREA CROSS-SECTIONS

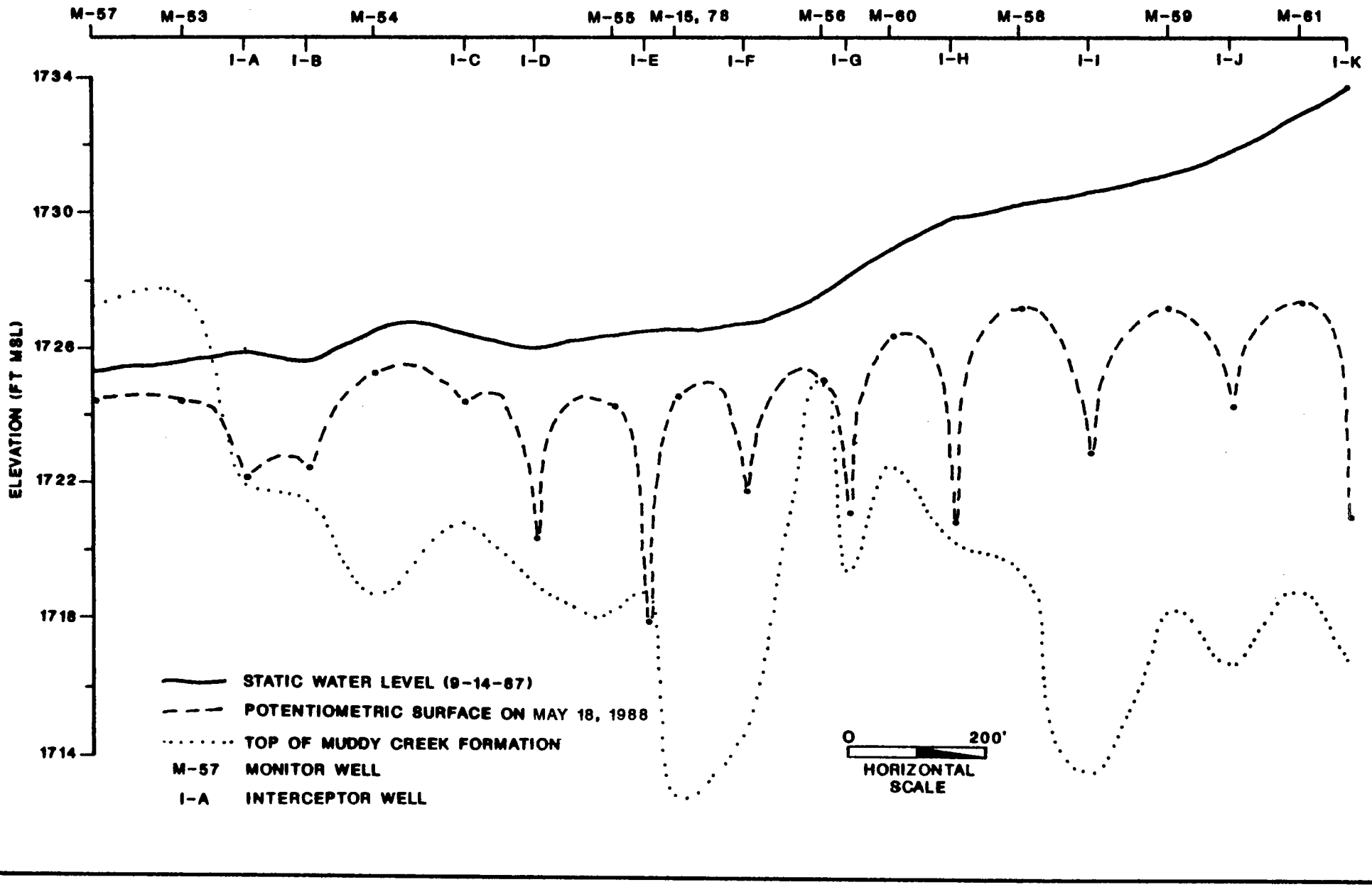

22.5
23.3
24
24.1
25.0
26.1
25.4
24.1
24.1
25.3
27.7
RECHARGE TRENCH
25.6
23.9
24.0
25.1
27.2
26.9
26.9
22.8
24.7
24.8
22.6
25.4
22.6
24.6
25.1
25.6
27.6
27.7
22.7
20.8
20.5
22.4
26.6
27.5
21.8
26.2
26.5
25.2
26
26.3
28
28.4
29.2
29.9
30
28.7
29.8
30.8
32
30.3
30.7
32.9
33.9
34
C-1
POND
37.6
AP-1
POND
AP-2
POND
AP-3
POND
N
37.1
WATER LEVEL WELL LOCATION
28
POTENTIOMETRIC SURFACE CONTOUR
LINE (FT MSL +1700)
WATER LEVEL DATA RECORDED APRIL 19, 1988
0
200 FT
SCALE
KERR-MCGEE CHEMICAL CORPORATION
HENDERSON. NEVADA
FIGURE C-1
CONSENT ORDER MONITORING AREA
POTENTIOMETRIC SURFACE MAP

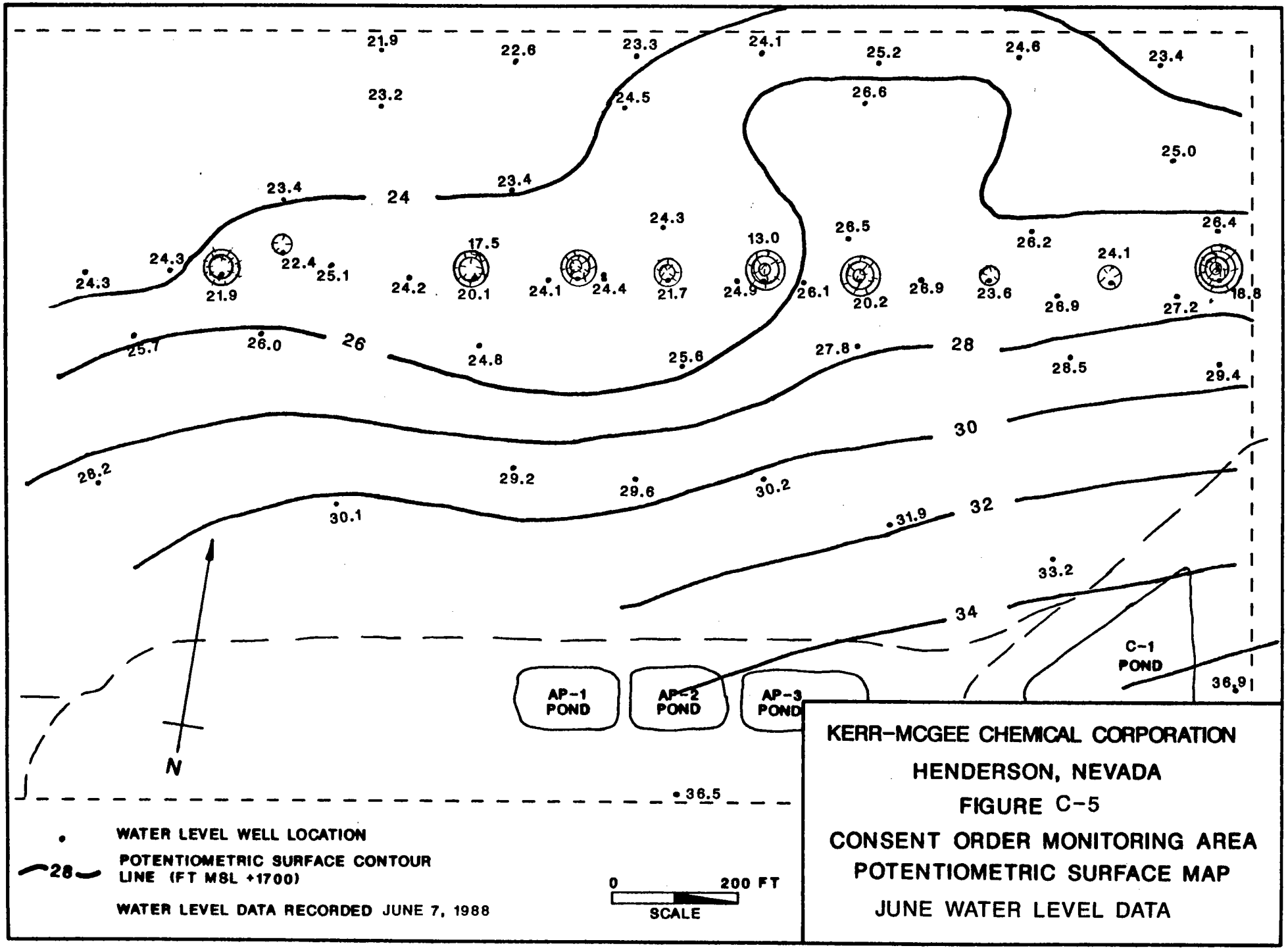
KERR-MCGEE CHEMICAL CORPORATION
HENDERSON, NEVADA
GROUNDWATER INTERCEPTOR LINE CROSS-SECTION
FIGURE C-2



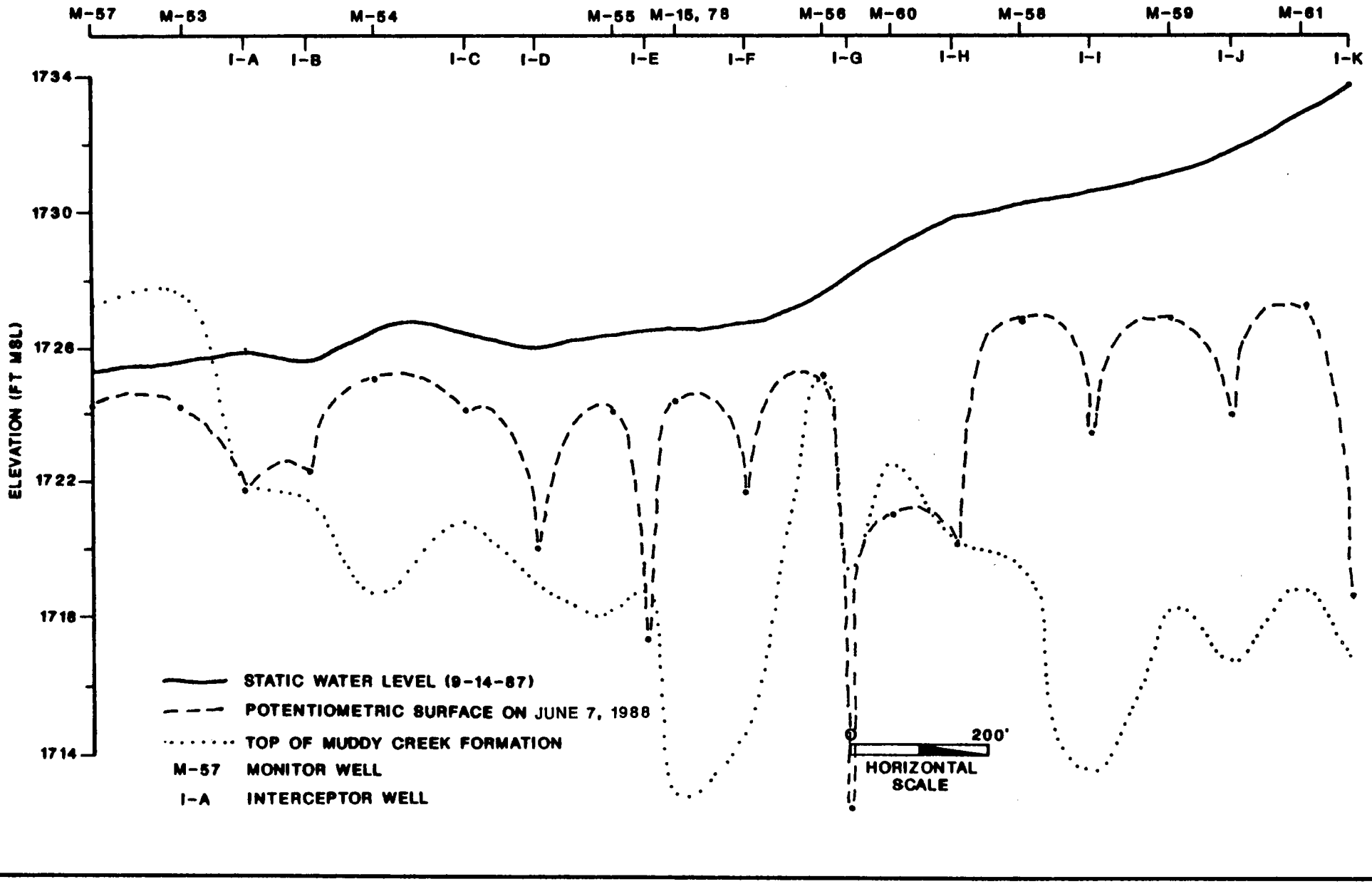

22.1
22.8
23.6
24.4
26.5
25.0
23.6
23.2
24.5
26.9
25.0
23.7
23.4
24.3
26.5
26.2
26.4
24
22.4
17.5
24.4
24.5
25.3
24.4
25.0
24.3
24.6
25.0
26.3
27.1
27.2
24.3
27.4
21.2
21.9
21.8
23.1
25.9
26.2
25.0
25.9
28.0
28.8
29.6
26
28
28.4
29.4
29.9
30.4
30
30.4
32.5
32
33.5
34
36
37.2
AP-1 POND
AP-2 POND
AP-3 POND
O-1 POND
36.6
N
WATER LEVEL WELL LOCATION
28
POTENTIOMETRIC SURFACE CONTOUR LINE (FT MSL +1700)
WATER LEVEL DATA RECORDED MAY 18, 1988
0
200 FT
SCALE
KERR-MCGEE CHEMICAL CORPORATION
HENDERSON, NEVADA
FIGURE C-3
CONSENT ORDER MONITORING AREA
POTENTIOMETRIC SURFACE MAP
MAY WATER LEVEL DATA

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



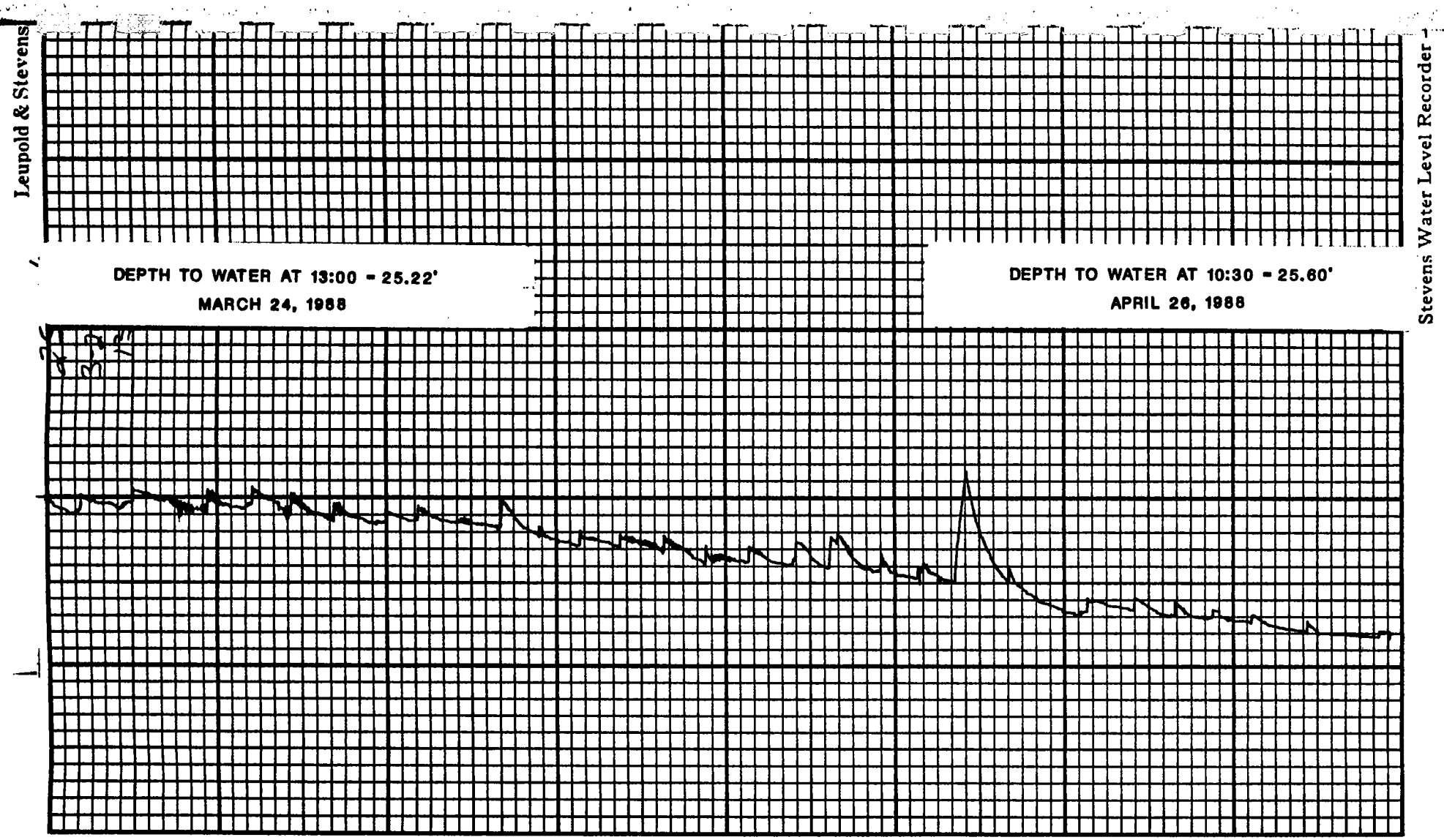

21.9
22.6
23.3
24.1
25.2
24.6
23.4
23.2
24.5
26.6
25.0
23.4
24
23.4
24.3
26.5
26.4
13.0
17.5
24.3
22.4
25.1
24.1
26.2
24.3
24.2
24.1
24.4
21.7
24.9
26.1
20.2
26.9
23.6
26.9
27.2
18.8
21.9
20.1
25.7
26.0
26
24.8
25.6
27.8
28
28.5
29.4
30
28.2
29.2
29.6
30.2
30.1
31.9
32
33.2
34
C-1
POND
36.9
AP-1
POND
AP-2
POND
AP-3
POND
N
36.5
WATER LEVEL WELL LOCATION
28
POTENTIOMETRIC SURFACE CONTOUR
LINE (FT MSL +1700)
WATER LEVEL DATA RECORDED JUNE 7, 1988
0
200 FT
SCALE
KERR-MCGEE CHEMICAL CORPORATION
HENDERSON, NEVADA
FIGURE C-5
CONSENT ORDER MONITORING AREA
POTENTIOMETRIC SURFACE MAP
JUNE WATER LEVEL DATA

KERR-MCGEE CHEMICAL CORPORATION
HENDERSON, NEVADA
GROUNDWATER INTERCEPTOR LINE CROSS-SECTION
FIGURE C-6



APPENDIX D

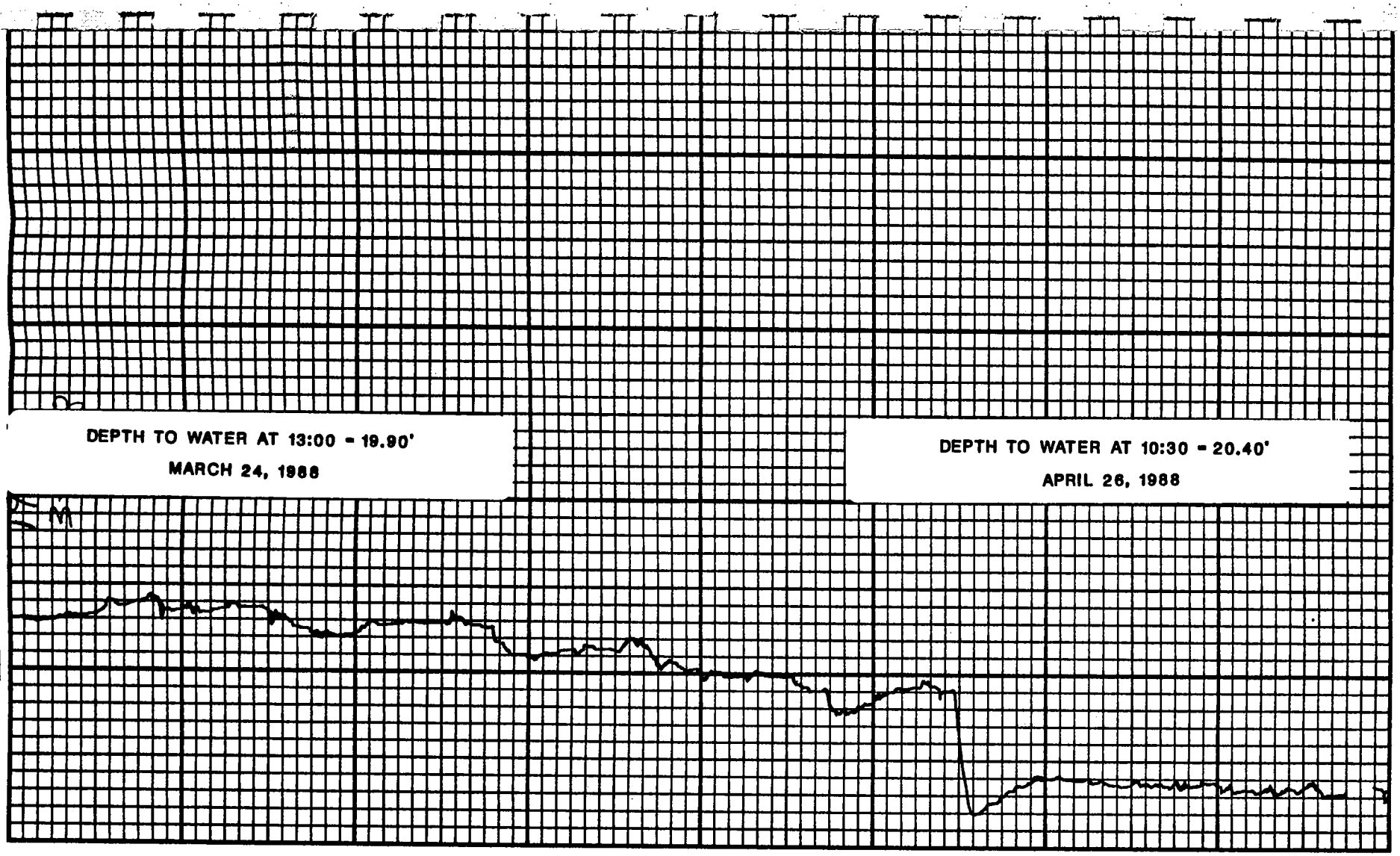
CONTINUOUS WATER LEVEL RECORDER CHARTS



CONTINUOUS WATER LEVEL RECORDER CHART

WELL M-78

3-24-88 TO 4-26-88

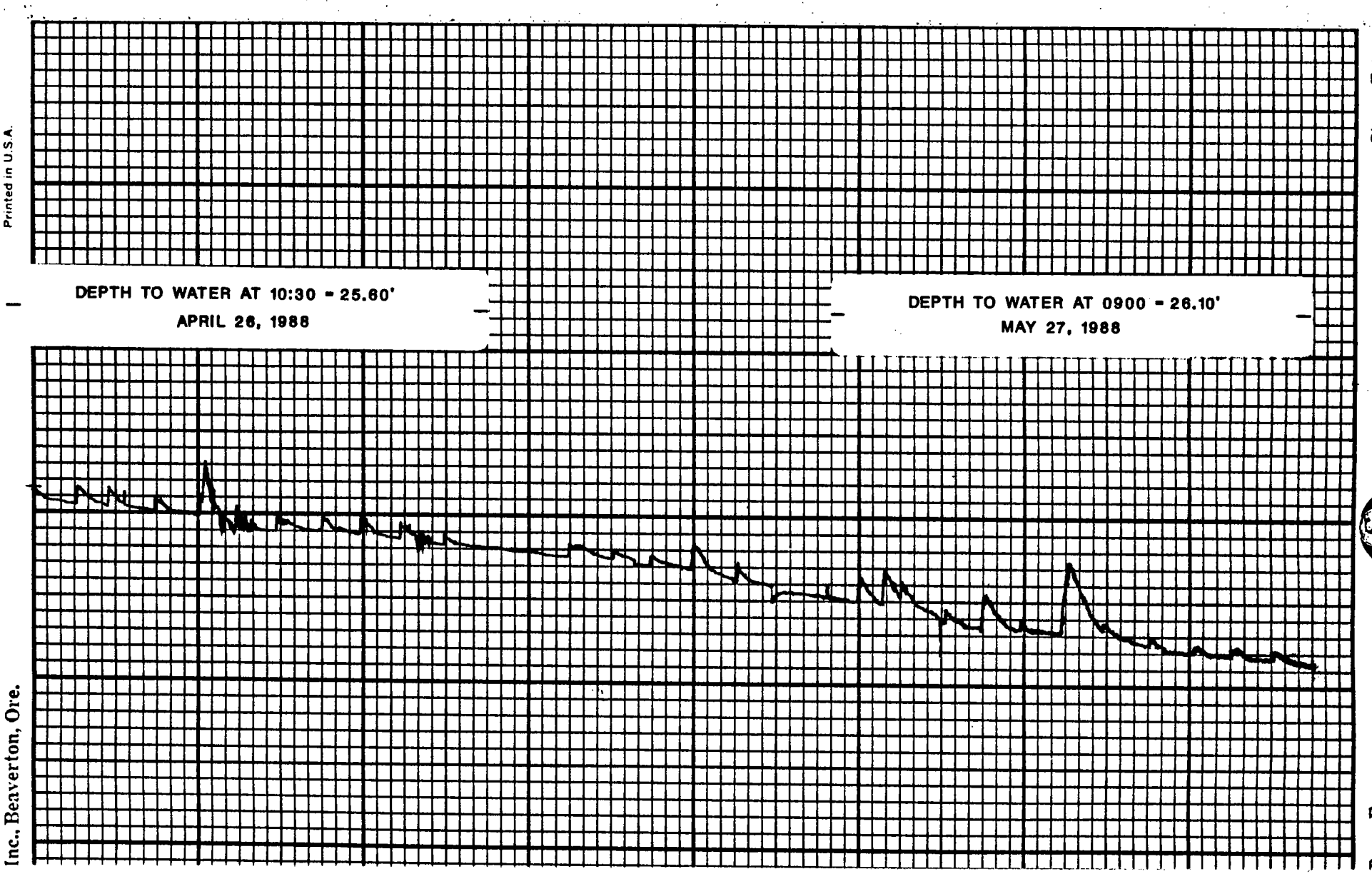


CONTINUOUS WATER LEVEL RECORDER CHART

WELL M-80

3-24-88 TO 4-26-88

CONTINUOUS WATER LEVEL RECORDER CHART
WELL M-78
4-26-88 TO 5-27-88



Printed in U.S.A.

Chart F-1

Inc., Beaverton, Ore.

Type F

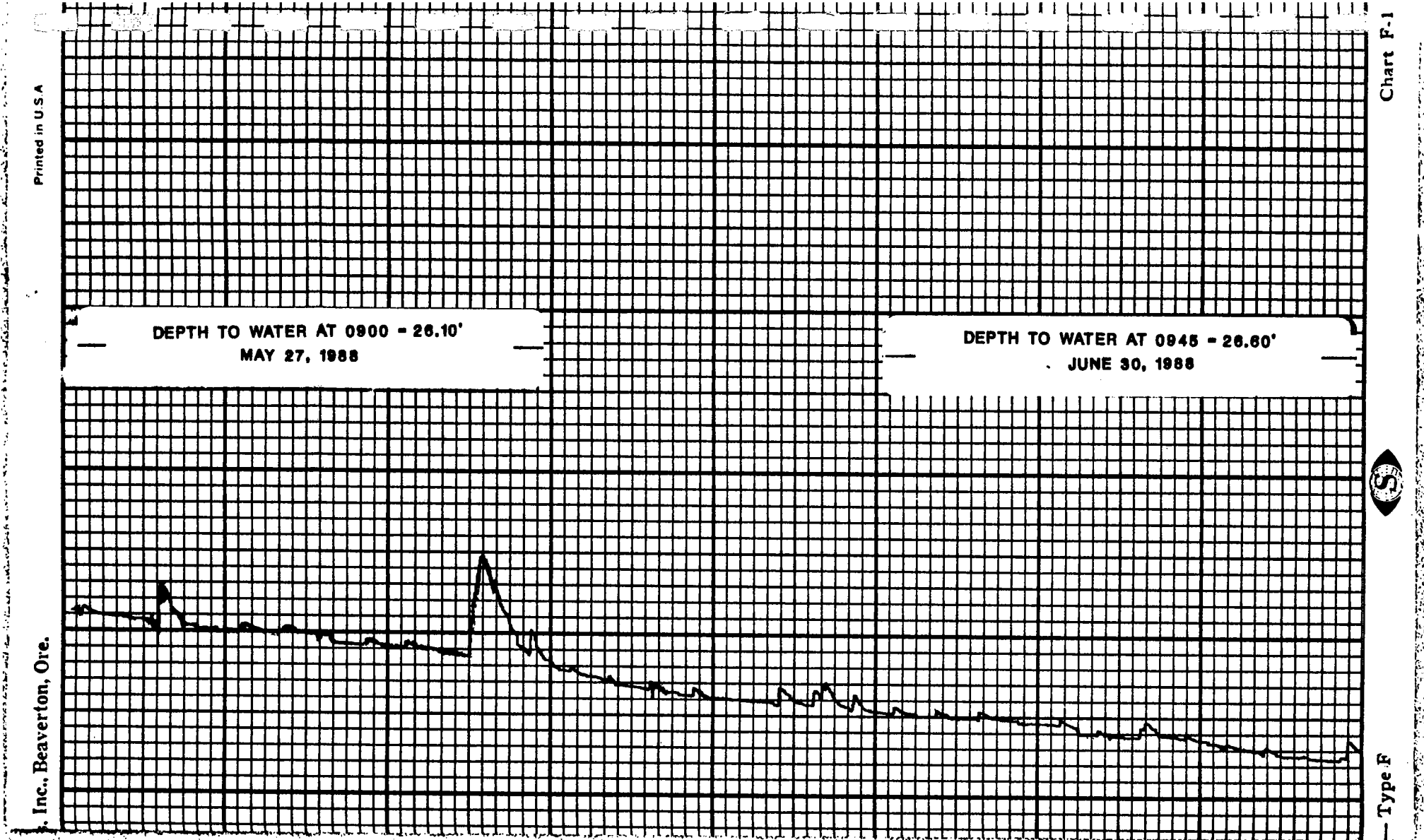
CONTINUOUS WATER LEVEL RECORDER CHART
WELL M-80
4-26-88 TO 5-27-88

Printed in U.S.A.

Chart F-1

Inc., Beaverton, Ore.

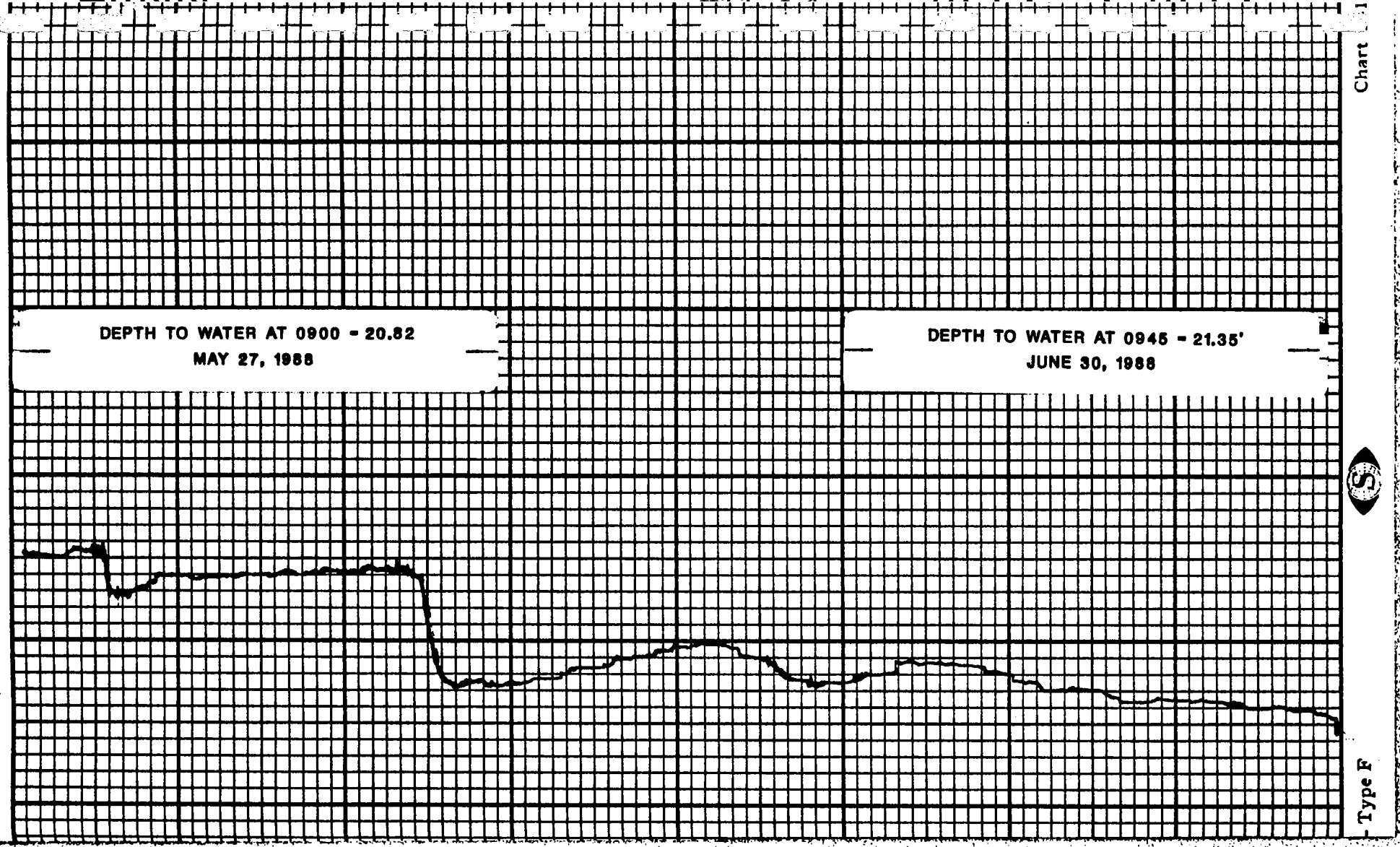
Type F



CONTINUOUS WATER LEVEL RECORDER CHART

WELL M-78

5-27-88 TO 6-30-88



CONTINUOUS WATER LEVEL RECORDER CHART

WELL M-80

5-27-88 TO 6-30-88