

Mc Kay Drilling, Inc.
Serving Northern Nevada Since 1960
Nevada Contractors Licenses #147170, #22763

2290 Pioneer Dr.
Reno, Nevada 89509
(702) 825-8692
852-1620
826-5365

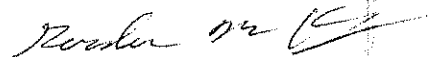
January 11, 1992

Permit Officer
Division of Environmental Protection
Capitol Complex
Carson City, NV 89710

Dear Sirs: RE: Warren Estates

This report is regarding permit #40310, 49057, and 30013.
This report includes July through December of 1991.
The totalizing flow meter readings and the gallons per minute
instantaneous flow measurements were taken, by Gordon McKay.

Sincerely,



ATTACHMENT 1

Weekly measurements of production and injection activities at Warren Estates.

DATE	TIME	TEMP. OF PRODUCED FLUID (°F)	INSTANTANEOUS FLOW MEASUREMENT (gpm)	INJECTION WELL WATER-LEVEL (ft.)	TOTALIZING FLOW METER READING (gal) x 1,000	DATA READ AND RECORDED BY
91						
7-3	12:05	202	220	53	541,956	Gordon
7-8	11:36		215	52	543,494	
7-15	1:06		220	45	546,659	
7-22	1:17		210	43	547,415	
7-29	3:31		220	44	549,676	
8-5	12:32		220	44	551,474	
8-12	11:35		210	45	553,637	
8-19	12:15		215	45	555,669	
8-26	1:03		220	46	557,874	
9-2	12:15		220	47	560,047	
9-9	3:30		220	44	562,278	
9-16	12:38		210	54	564,403	
9-23	2:25		215	48	566,571	
9-30	2:00		220	50	568,766	
10-7	1:07		200	48	570,937	
10-14	11:15		200	53	573,145	
10-21	11:03		210	53	575,573	
10-28	12:30		290	73	578,554	
11-4	12:10		290	72	581,890	
11-11	1:05		280	71	585,224	
11-18	12:14		240	74	587,560	
11-25	1:08		240	76	589,747	
12-2	1:36		220	81	591,928	
12-9	1:20		240	79	594,143	
12-16	1:50		250	78	596,359	
12-23	1:35		220	77	598,560	
12-30	11:44		220	79	600,739	

Sierra Environmental Monitoring Inc.
 47 Glen Carran Circle
 Sparks, NV 89431
 (702)354-3868

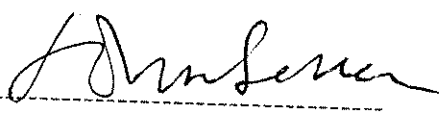
Laboratory
 Analysis Report

Date : 1/02/92
 Invoice #: 5547
 Client # : WAR-163
 Name : Warren Estates
 Address : P.O. Box 915
 City : Rancho Santa Fe State: CA Zip: 92067
 Taken by : McKay - Gordon McKay

Page: 1

Sample	Collection		ALKALINITY	CONDUCTIVITY	pH	TOTAL DISSOL.	ARSENIC	BORON	CALCIUM
	Date	Time	MG/L CaCO3	UMHO/CM	IS.U.	MG/L	MG/L	MG/L	MG/L
PRODUCTION WELL	12/02/91	11:55	1678	1400	8.20	11,056	0.23	1.1	51

Sample	Collection		MAGNESIUM	POTASSIUM	SODIUM	CHLORIDE	FLUORIDE	SILICA	SULFATE
	Date	Time	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
PRODUCTION WELL	12/02/91	11:55	0.14	9.5	286	55	4.5	78	546

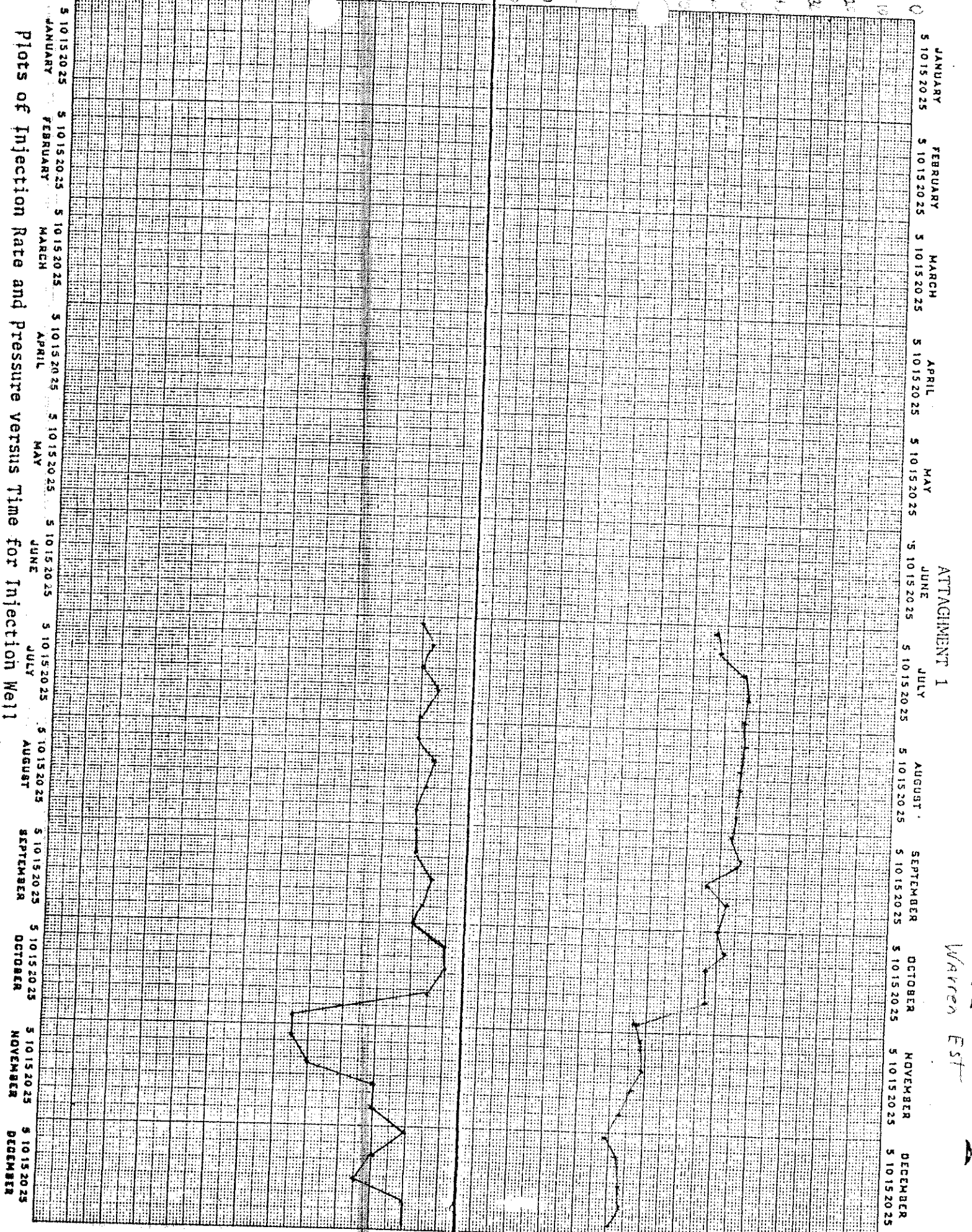
Approved By: 

This report is applicable only to the sample received by the laboratory. The liability of the laboratory is limited to the amount paid for this report. This report is for the exclusive use of the client to whom it is addressed and upon the condition that the client assumes all liability for the further distribution of the report or its contents.

Injection Rate-units 6 PM

Injection Pressure-units

Depth in feet



Plots of Injection Rate and Pressure versus Time for Injection Well 1

ATTACHMENT 1

Warren Est

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2290 Pioneer Dr.
Reno, Nevada 89509
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826-5365

RECEIVED

JUL 15 1991

Dept. of Minerals

July 11, 1991

Permit Officer
Division of Environmental Protection
Capitol Complex
Carson City, NV 89710

Dear Sirs:

RE: Warren Estates

This report is regarding permit #40310, 49057, and 30013.
This report includes January through June of 1991.
The totalizing flow meter readings and the gallons per minute
instantaneous flow measurements were taken, by Gordon McKay.

Sincerely,

Gordon McKay

Sierra Environmental Monitoring Inc.
 47 Glen Carran Circle
 Sparks, NV 89431
 (702)356-3868

Laboratory
 Analysis Report

Page: 1

Date : 6/12/91
 Invoice #: 4597
 Client #: WAR-163 PO#:
 Name : Warren Estates
 Address : P.O. Box 915
 City : Rancho Sante Fe State: CA Zip: 92067
 Taken by : Goodon

Sample	Collection		CONDUCTIVITY	pH	TOTAL DISSOL.	ARSENIC	FLUORIDE		
	Date	Time	UMHO/CM	IS.U.	MG/L	MG/L	MG/L		
PRODUCTION WELL	6/09/91	15:00	1400	8.0	1036	0.16	4.7		

Approved By: *[Signature]*

ATTACHMENT 1



Plots of Injection Rate and Pressure versus Time for Injection Well

ATTACHMENT 1

Weekly measurements of production and injection activities at Warren Estates.

DATE	TIME	TEMP. OF PRODUCED FLUID (°F)	INSTANTANEOUS FLOW MEASUREMENT (opp)	INJECTION WELL WATER-LEVEL (ft.)	TOTALIZING FLOW METER READINGS (gal)X1,000	DATA READ AND RECORDED BY
1-7-91	2:03	202	220	75	487,020	Gordon
1-14-91	11:38	202	225	73	489,155	
1-21-91	1:36	202	220	78	491,351	}
1-28-91	12:48	201	180	105	493,385	
2-4-91	11:33	201	200	107	495,078	
2-11-91	11:30	200	195	100	496,644	
2-18-91	12:20	200	180	99	498,409	Steve
2-25-91	12:36	200	190	98	500,155	Gordon
3-4-91	2:04	200	200	100	501,905	
3-11-91	11:46	200	190	101	503,622	}
3-18-91	12:30	200	200	101	505,425	
3-25-91	12:40	200	180	100	507,221	
4-1-91	1:50	200	185	103	509,009	
4-8-91	11:35	200	200	95	510,775	Steve
4-15-91	12:32	200	205	92	512,609	Gordon
4-22-91	1:03	200	190	91	514,437	
4-29-91	12:25	200	205	95	516,752	}
5-6-91	11:30	200	200	93	519,090	
5-13-91	11:59	200	205	95	521,948	
5-20-91	11:40	200	290	96	524,919	
5-27-91	11:35	200	300	100	528,069	
6-3-91	2:45	200	290	100	531,275	
6-10-91	11:50	200	280	95	534,341	
6-17-91	11:35	200	290	91	537,425	
6-24-91	12:00	200	210	59	539,775	