

McKay
Drilling & Pump Service, Inc.

Serving Northern Nevada Since 1960
Nevada Contractors License #14170
• Reno, Nevada 89509

(702) 825-8692
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826-5365

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FEB 0 0 1989

DEPT OF MINERALS

January 15, 1989

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 ~~1988~~ 1988.
The totalizing flow meter readings and the gallons per minute
instantaneous flow measurements were taken, by Gordon McKay.

Sincerely,

Gordon McKay



SIERRA ENVIRONMENTAL MONITORING

WATER QUALITY ANALYSIS RECORD

PROJECT NAME							
Warren Properties - Warren Estates			J.N. WAR-163				
P.O. Box 915 Rancho Sante Fe, CA 92607							
SAMPLE IDENTIFICATION			PARAMETER	PARAMETER	PARAMETER	PARAMETER	PARAMETER
Sample Collection Date	Time	Station ID.	pH	Alkalinity Bicarbonate mg/l	Total Dissolved Solids	Fluoride	Arsenic
MON DAY YE	0-2400		UNITS S.U.	UNITS CaCO ₃	UNITS mg/l	UNITS mg/l	UNITS mg/l
1-3-89	09:10	Product Well #1	8.0	69	1011	4.9	0.29
			Boron	Silica	Sulfate	Chloride	Conductivity
			Units: mg/l	Units: mg/l	Units: mg/l	Units: mg/l	umho Units: /cm
1-3-89	09:10	Product Well #1	2.1	106	486	55	1420
			Sodium	Potassium	Calcium	Magnesium	
			Units: mg/l	Units: mg/l	Units: mg/l	Units: mg/l	
1-3-89	09:10	Product Well #1	270	10.5	45	0.2	

SAMPLES BY: McKay Drilling - G. McKay
 ANALYSIS BY: SEM - G.Gross/S.Poole/J.Mantravadi

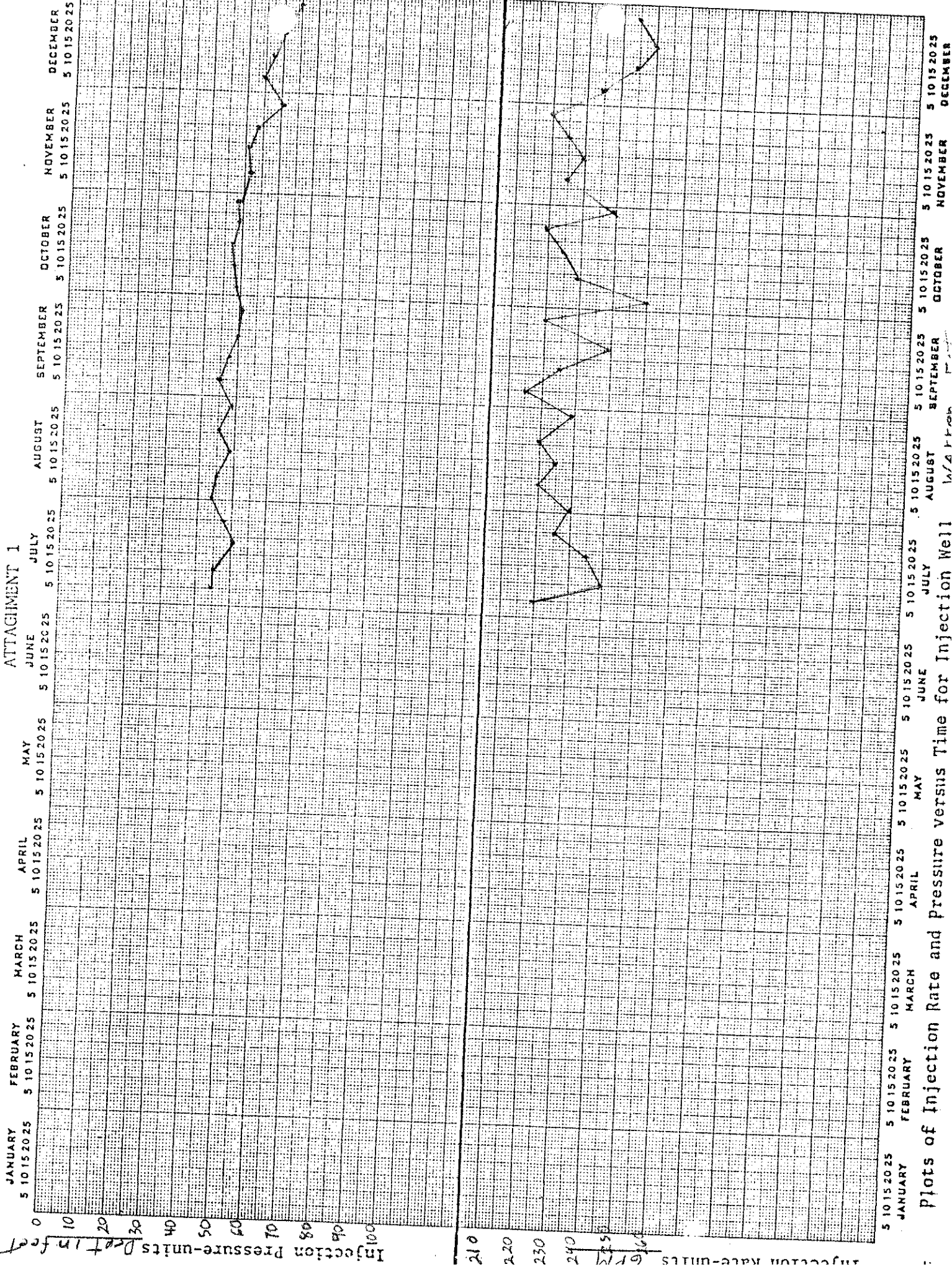
APPROVED BY:

ATTACHMENT 1

Weekly measurements of production and injection activities at Warren Estates.

DATE	TIME	TEMP. OF PRODUCED FLUID (°F)	INSTANTANEOUS FLOW MEASUREMENT (cpm)	INJECTION WELL WATER-LEVEL (ft.)	TOTALIZING FLOW METER READINGS (gal)	DATA READ AND RECORDED BY
7-11-88	12:16	2:02	220	45	185,753,000	
7-11-88	11:45	2:02	240	46	187,730,000	
7-18-88	12:06	2:02	235	51	190,032,000	
7-25	12:00	2:02	225	47	192,321,000	
8-1	12:25	2:02	230	47	194,641,000	
8-8	12:30	2:02	220	45	196,954,000	
8-15	11:50	2:02	225	48	199,264,000	
8-22	12:55	2:02	220	46	201,579,000	
8-29	11:35	2:02	230	48	203,866,000	
9-5	1:45	2:02	215	45	206,546,000	
9-12	1:20	2:01	225	47	208,511,000	
9-19	12:00	2:02	240	50	210,820,000	
9-26	1:05	2:02	220	51	213,540,000	
10-3	12:30	2:02	250	49	215,468,000	
10-10	12:00	2:02	230	48	217,789,000	
10-17	12:00	2:02	225	47	220,125,000	
10-24	12:45	2:02	220	48	222,445,000	
10-31	12:40	2:02	240	49	224,757,000	
11-7	12:50	2:02	229	53	227,129,000	
11-14	12:30	2:02	230	51	229,473,000	
11-21	12:20	2:02	225	50	231,702,000	
11-28	12:00	2:02	220	50	234,171,000	
12-5	12:20	2:02	235	55	236,538,000	
12-12	12:35	2:03	245	57	238,896,000	
12-19	11:25	2:02	250	60	241,189,000	
12-26	11:36	2:02	245	65	243,532,000	

ATTACHMENT 1



Plots of Injection Rate and Pressure versus Time for Injection Well

1/24/2025



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SIERRA ENVIRONMENTAL MONITORING

DEPT OF MINERALS

WATER QUALITY ANALYSIS RECORD

PROJECT NAME Warren Estates - Warren Properties J.N. WAR - 163

P. O. Box 915 Rancho Sante Fe, CA 92607

SAMPLE IDENTIFICATION			PARAMETER	PARAMETER	PARAMETER	PARAMETER	PARAMETER
Sample Collection Date	Time	Station ID.	pH	Alkalinity, Bicarbonate mg/l	Total Diss. Solids mg/l	Fluoride mg/l	Arsenic mg/l
MON DAY YR	0-2400		UNITS S. U.	UNITS CaCO ₃	UNITS mg/l	UNITS mg/l	UNITS mg/l
01-04-88	12:30	Product. Well #1	8.1	62	904	4.2	0.12
			Boron	Silica	Sulfate	Chloride	Conductivity
			Units: mg/l	Units: mg/l	Units: mg/l	Units: mg/l	Units: $\frac{\mu\text{mho}}{\text{cm}}$
01-04-88	12:30	Product Well #1	3.1	78	410	45	1,390
			Sodium	Potassium	Calcium	Magnesium	
			Units: mg/l	Units: mg/l	Units: mg/l	Units: mg/l	
01-04-88	12:30	Product. Well #1	215	9.0	23	0.1	

SAMPLES BY: Mc Kay Drilling - G. Mc Kay

ANALYSIS BY: SEM - J. Seher - G. Gross - J. Seher APPROVED BY: *J. Seher*