

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

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JAN 12 1993

Dept. of Minerals

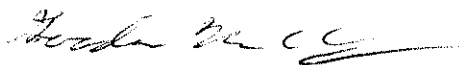
January 4, 1993

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 1992.
The totalizing flow meter readings and the gallons per minute
instantaneous flow measurements were taken, by Gordon McKay.

Sincerely,



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

Laboratory
 Analysis Report

Date : 12/22/92
 Invoice #: 7568
 Client #: WAR-163 PO#: _____
 Name : Warren Estates
 Address : P.O. Box 915
 City : Rancho Sante Fe State: CA Zip: 92067
 Taken by : Gordon McKay

Page: 1

Sample	Collection		ALKALINITY	CONDUCTIVITY	pH	TOTAL DISSOL.	ARSENIC	BORON	CALCIUM
	Date	Time	MG/L	CAC03UMHO/CM	IS.U.	MG/L	MG/L	MG/L	MG/L
PRODUCTION WELL	12/03/92	9:00	20.66B	1,450	8.37	1,018	0.14	2.2	28.9

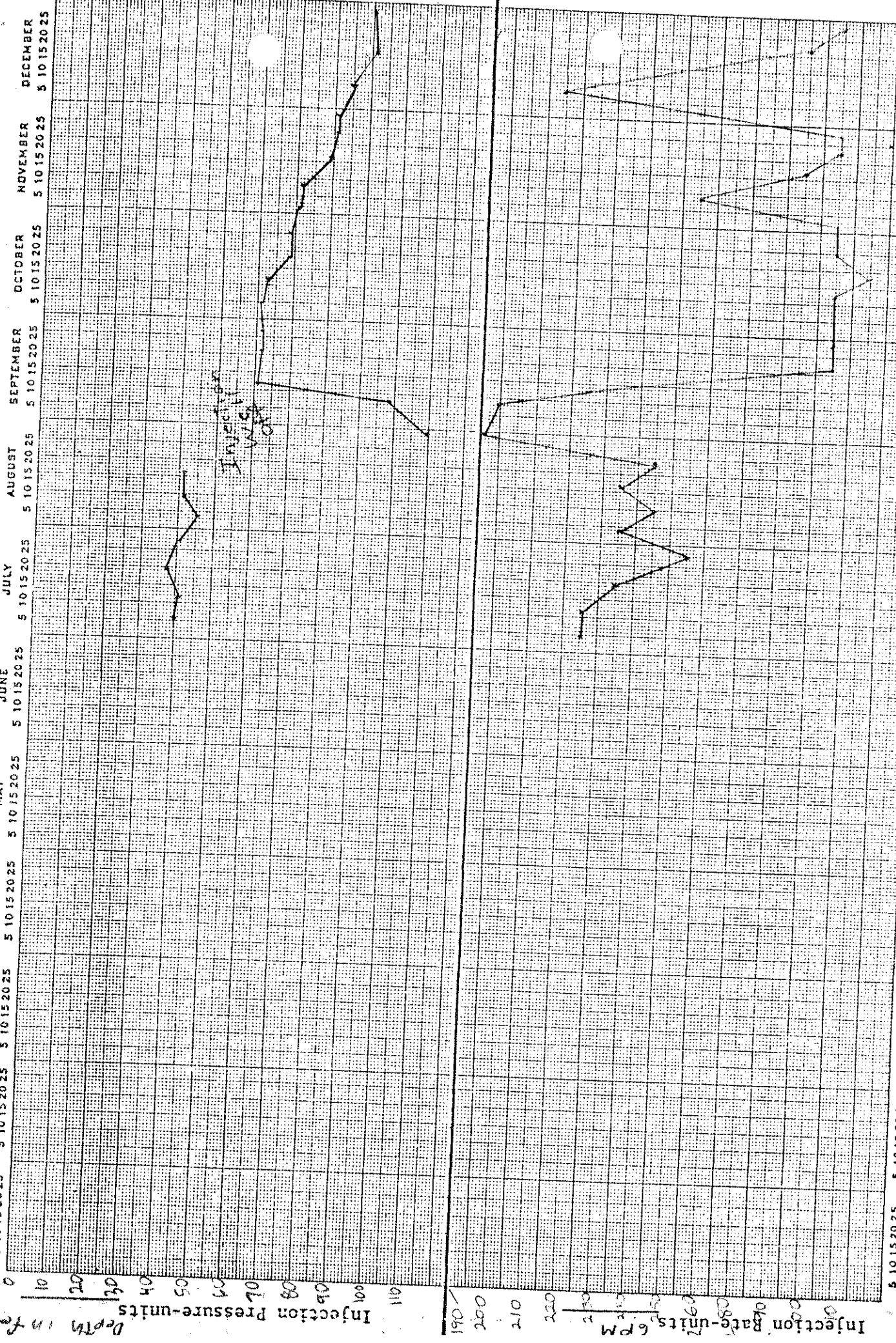
Sample	Collection		MAGNESIUM	POTASSIUM	SODIUM	CHLORIDE	FLUORIDE	SILICA	SULFATE
	Date	Time	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
PRODUCTION WELL	12/03/92	9:00	0.1	10.2	310	57	5.0	98	535

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.

ATTACHMENT 17

JANUARY 5 10 15 20 25 FEBRUARY 5 10 15 20 25 MARCH 5 10 15 20 25 APRIL 5 10 15 20 25 MAY 5 10 15 20 25 JUNE 5 10 15 20 25 JULY 5 10 15 20 25 AUGUST 5 10 15 20 25 SEPTEMBER 5 10 15 20 25 OCTOBER 5 10 15 20 25 NOVEMBER 5 10 15 20 25 DECEMBER 5 10 15 20 25



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Plots of Injection Rate and Pressure versus Time

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 READINGS (gal) x 1,000	DATA READ AND RECORDED BY
7-6-92	12:40	208	220	40	667,319	Gordon Metcalf
7-13	11:50	202	220	41	668,232	
7-20	12:25	202	230	38	670,361	
7-27	12:21	202	250	41	672,657	
8-3	12:00	202	230	46	674,963	
8-10	1:00	202	240	42	677,274	
8-17	12:15	202	230	42	679,573	
8-24	1:02	202	240	injection Well off	682,473	
8-31	2:10	200	190	110	684,606	
9-7	3:20	200	195	97	686,129	
9-14	11:20	202	220	injection Well on 61	687,064	
9-21	1:34	202	300	62	690,126	
9-28	12:20	202	300	62	693,221	
10-5	6:01	202	300	61	696,270	
10-12	4:20	202	300	63	699,284	
10-19	5:10	202	310	65	702,365	
10-25	1:15	202	300	69	705,355	
11-2	2:45	202	300	71	708,449	
11-9	11:50	202	250	72	711,453	
11-16	10:45	202	290	80	714,462	
11-23	8:01	202	300	81	717,437	
11-29	4:30	202	300	81	720,640	
12-7	2:00	202	210	85	723,628	
12-14	2:05	202	300	87	726,734	
12-21	1:05	202	290	91	729,883	
12-28	12:10	202	300	90	733,053	

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Reno, Nevada 89509
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July 11, 1992

Permit Officer
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Capitol Complex
Carson City, NV 89710

Dear Sirs: RE: Warren Estates

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The totalizing flow meter readings and the gallons per minute
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Sincerely,

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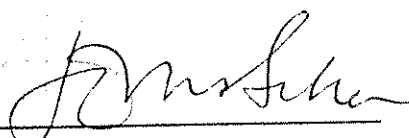
Laboratory
 Analysis Report

Page: 1

Date : 6/24/92
 Invoice #: 6628
 Client # : WAR-163 PO#:
 Name : Warren Estates
 Address : P.O. Box 915
 City : Rancho Sante Fe State: CA Zip: 92067
 Taken by : Gordon

Sample	Collection		CONDUCTIVITY	pH	TOTAL	ARSENIC	FLUORIDE		
	Date	Time	UMHO/CM	IS.U.	DISSOL.	MG/L	MG/L		
PRODUCTION WELL	6/08/92	14:30	11425	8.22	1,013	0.12	4.3		

Approved By: _____



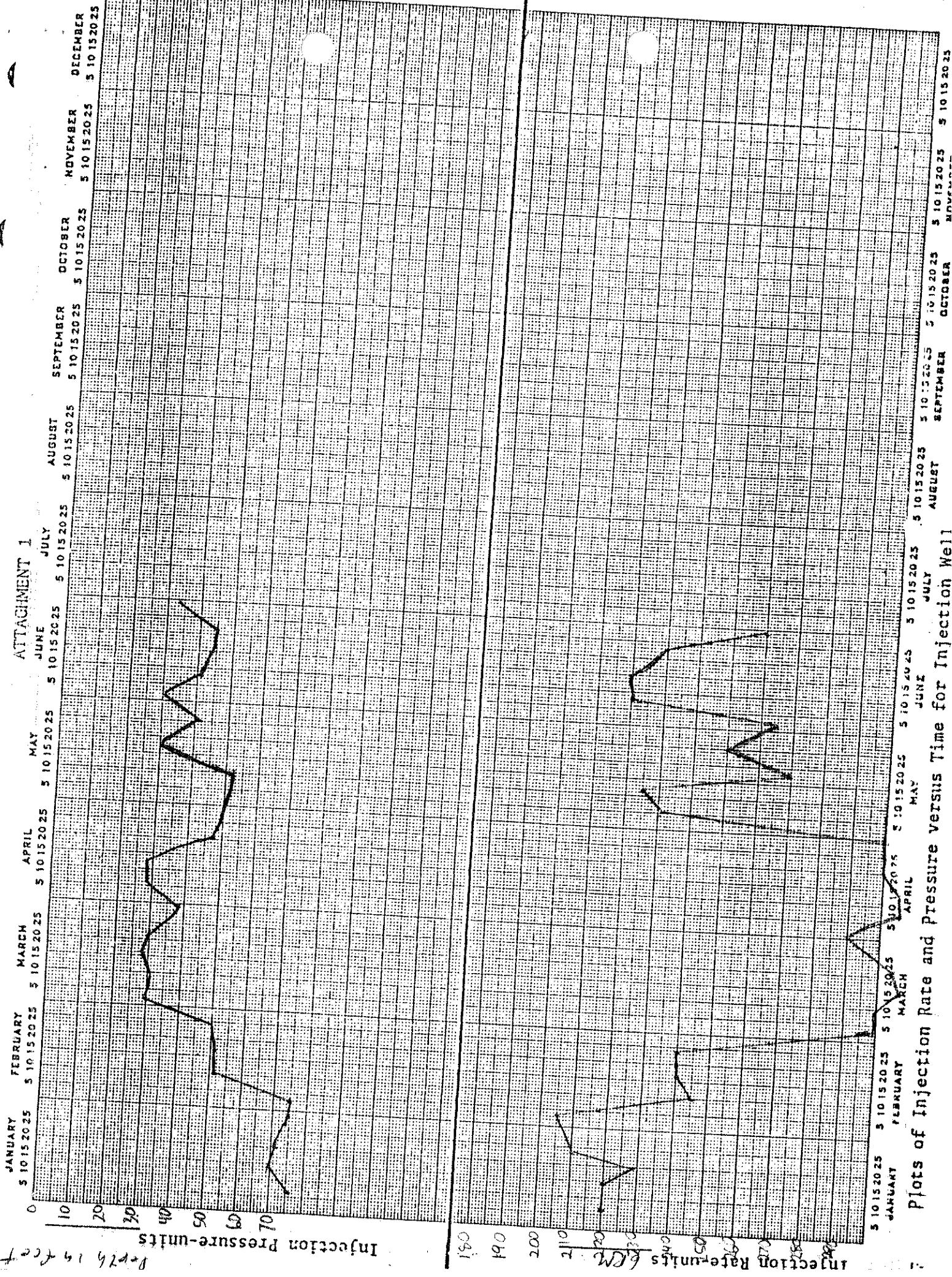
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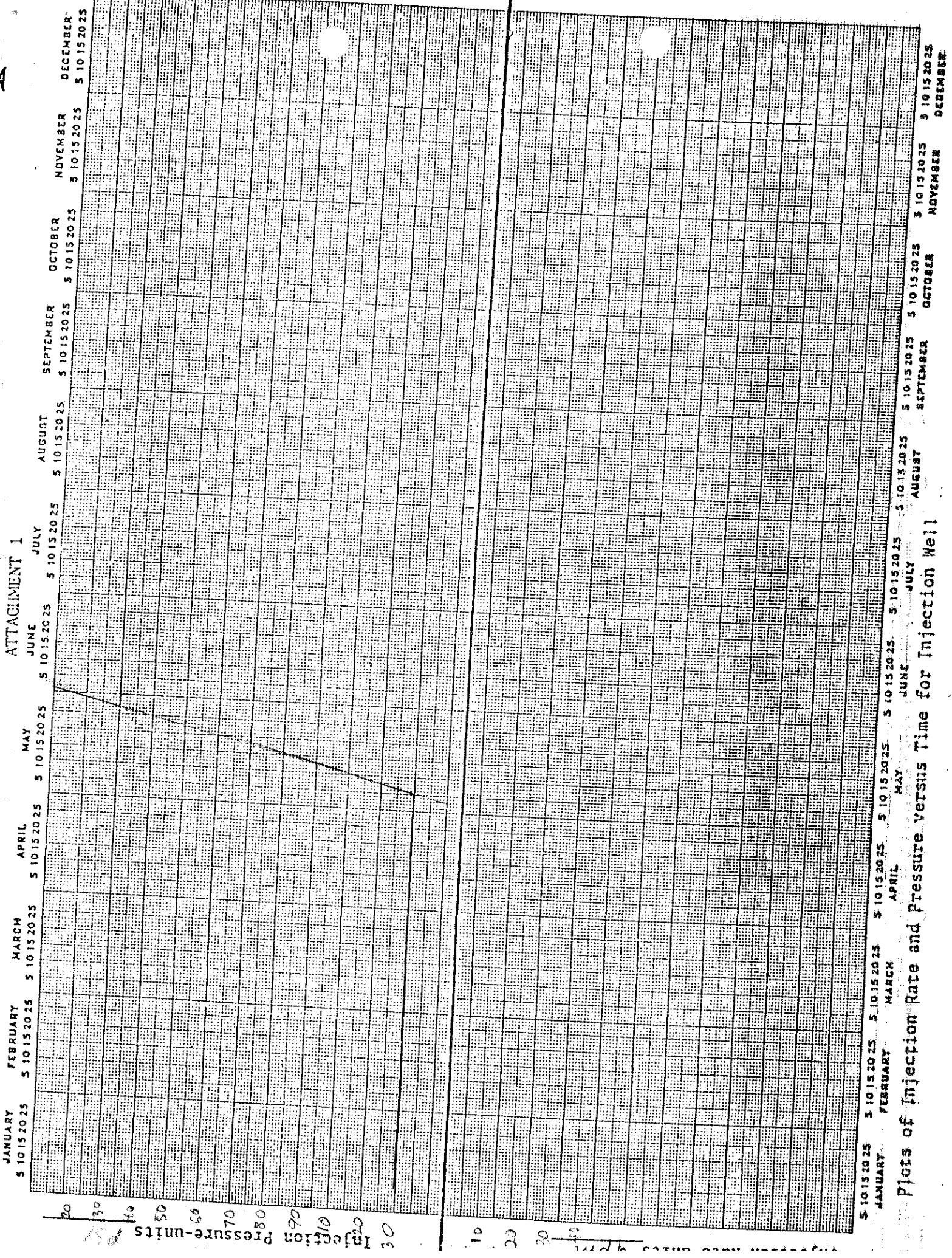
DATE	TIME	TEMP. OF PRODUCED FLUID (°F)	INSTANTANEOUS FLOW MEASUREMENT (gpm)	INJECTION WELL WATER-LEVEL (ft.)	TOTALIZING FLOW METER READING (gal) x 1,000	DATA READ AND RECORDED BY
1-6-92	12:20	202	220	75'	602,947	Gordon
1-13-92	12:46	202	220	70'	605,148	
1-20-92	10:01	202	230	71'	607,299	
1-27-92	11:48	202	210	74'	609,487	
2-3-92	2:28	202	205	75'	611,683	
2-10-92	3:01	206	245	51'	613,914	
2-17	1:20	206	240	51'	616,223	
2-24	1:25	206	240	50'	618,558	
3-2	11:40	206	300	30'	621,485	
3-9	12:00	206	300	31'	624,457	
3-16	11:48	206	310	29'	627,454	
3-23	1:19	206	305	30'	630,453	
3-30	4:30	206	290	38'	633,461	
4-6	1:25	206	310	28'	636,332	
4-13	1:35	206	310	28'	639,274	
4-20	12:30	206	300	48'	642,239	
4-27	2:10	202	300	50'	644,582	
5-4	12:35	202	230	51'	646,879	
5-11	2:20	202	225	52'	648,829	
5-18	12:30	206	270	32'	651,236	
5-25	12:10	206	250	42'	653,710	
6-1	12:16	206	265	31'	656,127	
6-8	2:00	202	220	41'	658,438	
6-15	5:30	204	220	44'	660,724	
6-22	3:58	205	230	45'	662,893	
6-29	11:22	206	260	34'	665,100	

ATTACHMENT 1



Plots of Injection Rate and Pressure versus Time for Injection Well

ATTACHMENT 1



Plots of Injection Rate and Pressure versus Time for Injection Well