

**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 1994

Div. of Minerals

January 11, 1994

Permit Officer  
Division of Environmental Protection  
Bureau of Water Pollution Control/UIC  
333 W. Nye Lane  
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 1993.  
The totalizing flow meter readings and the gallons per minute  
instantaneous flow measurements were taken, by Gordon McKay.  
After injecting into #1 well for the MIT, our flow meter readings  
were low. A gate valve was opened to allow the water to flow  
into #1 well and it washed out the valve. A new valve was ordered.  
This valve does not affect our readings when we pump from the #2  
well. We started pumping from #2 well 10-11-93 .

Sincerely,

*Gordon McKay*

*K. Tolp*  
*K. Tolp*  
*J*



Laboratory  
Analysis Report

Sierra  
Environmental  
Monitoring, Inc.

WARREN ESTATES  
P.O. BOX 915  
RANCHO SANTE FE CA 92067

Date : 1/05/94  
Client : WAR-163  
Taken by: MCKAY DRILLING - GORDON  
Report : 9652  
PO# :

Sample	Collected		ALKALINITY	CONDUCTIVITY	PH	TOTAL DISSOL.	NITRATE-N	ARSENIC
	Date	Time	MG/L CAC03	UMHO/CM	S.U.	SOLIDS MG/L	MG/L	MG/L
WELL #1 - PRODUCTION WELL	12/13/93	14:45	69B	1,430	8.34	1,071	<0.1N	0.13
Sample	Collected		BORON	CALCIUM	IRON	LITHIUM	MAGNESIUM	MANGANESE
	Date	Time	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
WELL #1 - PRODUCTION WELL	12/13/93	14:45	2.1	30	<0.02	0.2	0.1	0.02
Sample	Collected		POTASSIUM	SODIUM	CHLORIDE	FLUORIDE	SILICA	SULFATE
	Date	Time	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
WELL #1 - PRODUCTION WELL	12/13/93	14:45	13	278	52	4.8	115	560

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.

William F. Pillsbury  
President

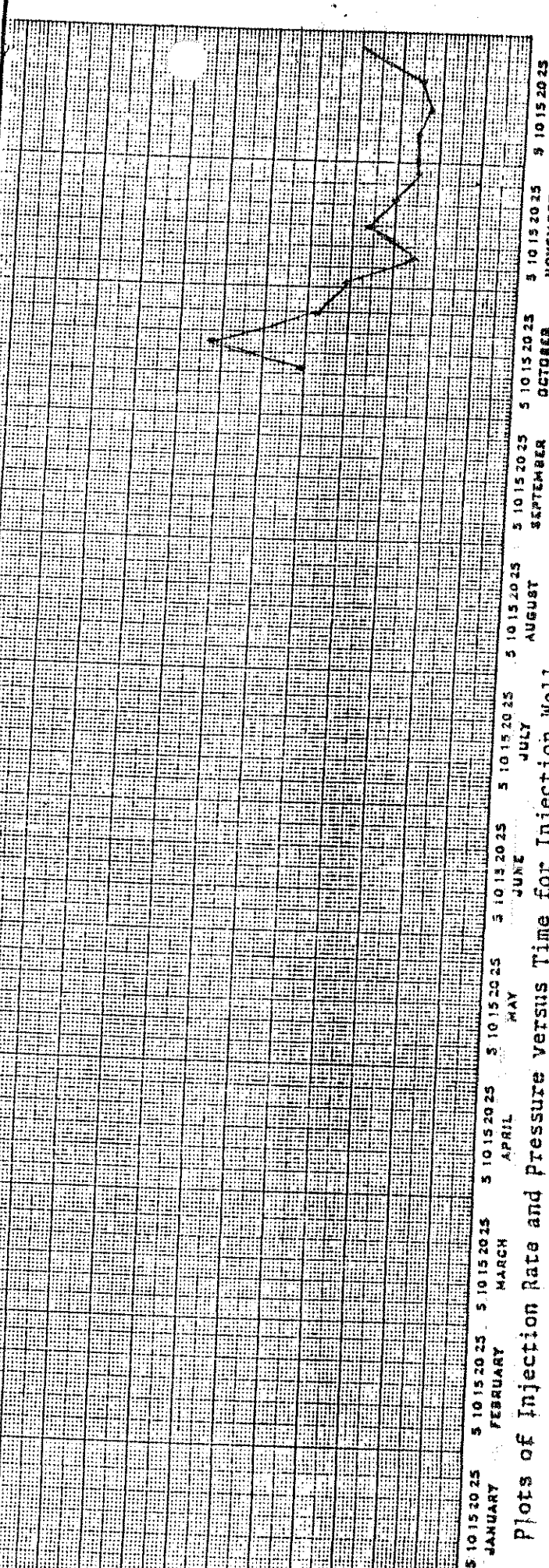
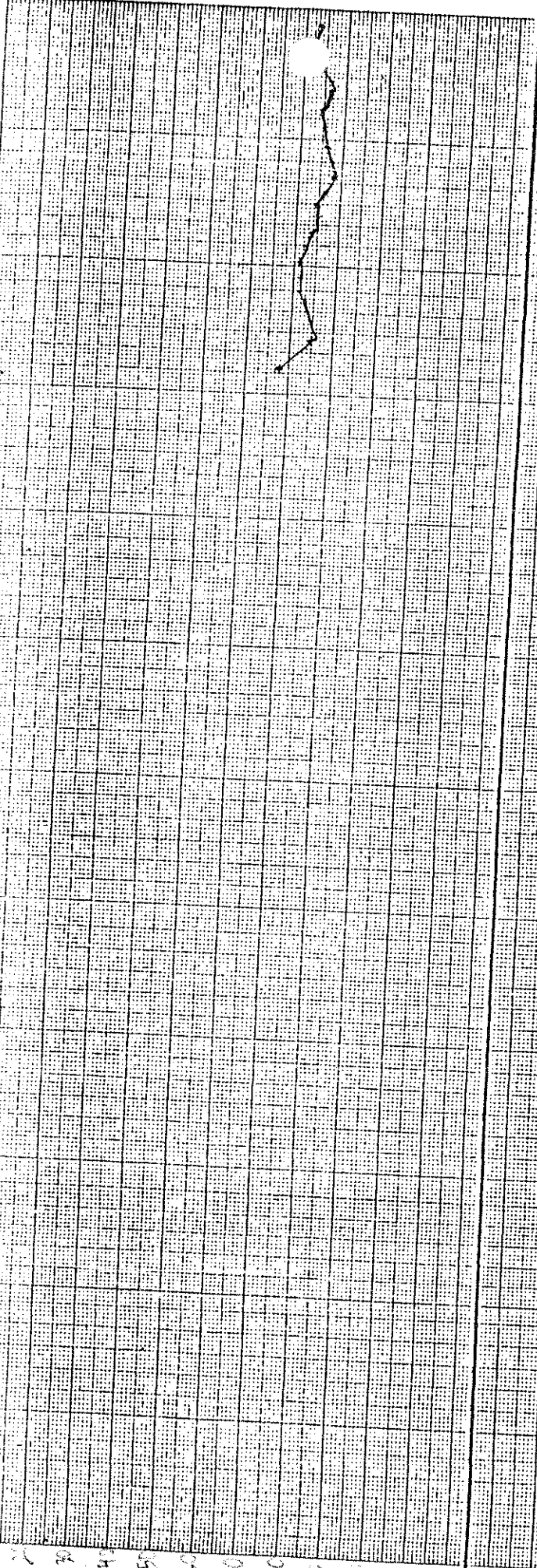
47 Glen Carran Circle  
Sparks, Nevada 89431  
Phone (702) 356-3868  
FAX (702) 356-8037

John C. Seher  
Chemist

WATER LOG

ATTACHMENT 1

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



Plots of Injection Rate and Pressure versus Time for Injection Well

Depth in feet

Injection Rate-units

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
7-5	1:30	206	310		138	Gordon
	1:05	206	320		1,609	}
	2:00	206	330		1,955	
	12:41	206	330		2,299	
	12:15	206	75	101	2,995	Stover
	11:15	206	80	100	3,647	Gordon
	10:47	206	160	77	4,867	}
	8:41	206	260	74	6,389	
	11:05	206	160	71	7,835	
	8:10	206	180	71	9,521	
	4:02	206	170	72	10,765	
	2:15	206	190	63	12,128	
	10:36	206	160	51	13,350	
	1:26	206	140	33	14,468	
	3:30	206	310	68	17,745	
	11:20	206	265	75	21,041	
	12:28	206	315	72	24,452	
	1:10	206	330	71	27,891	
	2:15	206	360	74	31,322	
	1:20	206	340	75	34,735	
	2:35	206	350	77	38,212	
	2:40	206	360	76	41,815	
	12:42	206	360	75	45,500	
	12:01	206	365	76	49,232	
	2:34	206	360	72	52,337	
	1:18	206	330	73	55,587	

injecting into # for M

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JUL 26 1993

Dept. of Minerals

July 11, 1993

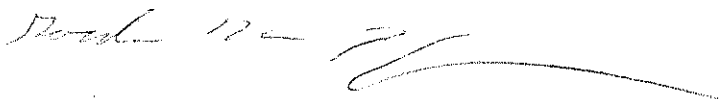
Permit Officer  
Division of Environmental Protection  
Capitol Complex  
Carson City, NV 89710

Dear Sirs:

RE: Warren Estates

This report is regarding permit #40310, 49057, and 30013. This report includes January through June of 1993. The totalizing flow meter readings and the gallons per minute instantaneous flow measurements were taken, by Gordon McKay. The flow meter stopped working in March. It was sent back to the manufacturer for repairs and reinstalled April 26. The meter was still malfunctioning and returned to the manufacture. The meter was again installed and is not working. A new meter was ordered 6-14-93. This meter should arrive in July.

Sincerely,



Sierra Environmental Monitoring, Inc.  
47 Glen Carran Circle  
Sparks, NV 89431  
Phone #: (702)356-3868  
Fax #: (702)356-8037

Laboratory  
Analysis Report

Date : 6/17/93  
Report # : 8412  
Client # : WAR-163 PO#:   
Name : Warren Estates  
Address : P.O. Box 915  
City : Rancho Sante Fe State: CA Zip: 92067  
Taken by : Gordon McKay

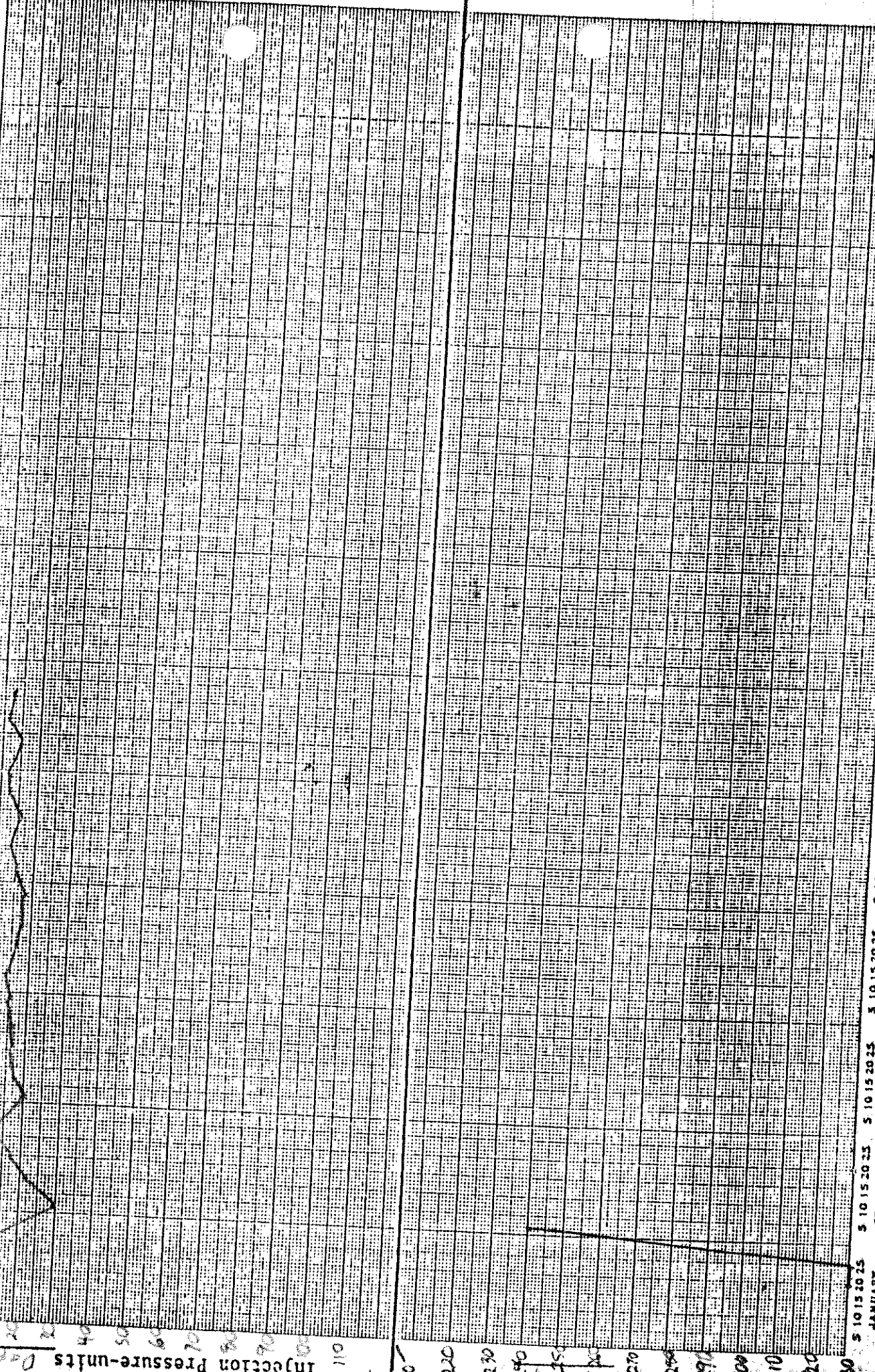
Page: 1

Sample	Collection		CONDUCTIVI	pH	TOTAL	ARSENIC	FLOURIDE		
	Date	Time	TY UMHO/CM	S.U.	DISSOL. MG/L	MG/L	MG/L		
PRODUCTION WELL	6/02/93	15:45	1,400	8.30	1,039	0.30	4.9		

Approved By: *Jamie L. ...*

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Injection Pressure-units

Plots of Injection Rate and Pressure versus Time for Injection Well

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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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
93						
1-4	12:20	206	meter out	15	735,616	Gordon
1-11	1:00	206	meter out	13	meter out	}
1-20	3:32	206	330	14	0	
1-25	12:50	206	330	14	1,842	
2-1	12:20	206	240	29	4,419	
2-8	2:20	206	meter wrong	21	6,797	
2-15	12:40	206		16	9,095	
2-22	11:45	206		11	11,543	
3-1	1:25	206		20	13,691	
3-8	5:15	206		17	15,546	
3-15	12:40	206		16	meter out	
3-22	1:21	206		16		
3-29	2:35	206		15		
4-5	1:58	206		14		
4-12	2:11	206		16		
4-19	1:05	206		17		
4-26	2:05	206		17	19,312	
5-3	1:55	206		15	19,817	
5-10	11:50	206		14	20,098	
5-17	12:20	206		16	20,123	
5-24	2:05	206		13	meter out	
5-30	1:43	206		13		
6-7	11:49	206		15		
6-14	1:30	206		12		
6-21	2:00	206		13		