

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

M. Oil Cons. Division
1625 N. French Dr.
Hobbs, NM 88240

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
ARCO Permian

3. Address and Telephone No.

P.O. Box 1089, Eunice, NM 88231

505-394-1649

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEC. 23, TOWNSHIP 25S, RANGE 37E

UL: N, 2310 FWL, 660 FSL

5. Lease Designation and Serial No.

NM-90798

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
EL PASO FEDERAL #2

9. API Well No.
30-025-22961

10. Field and Pool, or exploratory Area
JUSTIS BLINEBRY

11. County or Parish, State

LEA NM

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☒ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

ARCO PERMIAN REQUESTS PERMISSION TO DISPOSE OF WATER FROM THE EL PASO FEDERAL LEASE.
THE FOLLOWING INFORMATION IS FURNISHED TO HANDLE, STORE OR DISPOSE OF WATER
PRODUCED FROM OIL AND GAS WELLS ON SAID FEDERAL LEASES AS FOLLOWS:

BWPD: 57

THIS LEASE DISPOSES WATER TO:

SWD SYSTEM: JUSTIS SWD SYSTEM N-26

OPERATOR: RICE ENGINEERING

LOCATION OF DISPOSAL SITE: UL: B, SEC. 12, T25S, R37E, LEA COUNTY, NM

WATER IS COLLECTED AT LEASE TANK BATTERY

SEE INSTRUCTIONS FOR
COMPLETION AND APPROVAL

14. I hereby certify that the foregoing is true and correct

Signed

Alexis C. Swoboda

Title Administrative Assistant

Date 2/28/00

(This space for Federal or State official use)

(ORIG. SGD.) ALEXIS C. SWOBODA

PETROLEUM ENGINEER

MAR 03 2000

Approved by

Title

Date

Conditions of approval, if any:

GW

Water Analysis Report by Baker Petrolite

ARCO

EL PASO FEDERAL
WELL #1
WELLHEAD

Account Manager
RON MATTHEWS

Summary		Analysis of Sample 131919 @ 75°F					
Sampling Date	12/12/99	Anions	<i>mg/l</i>	<i>meq/l</i>	Cations	<i>mg/l</i>	<i>meq/l</i>
Analysis Date	12/22/99	Chloride	81664	2303	Sodium	48235	2098
Analyst	JOANNA RAGAN	Bicarbonate	900	14.8	Magnesium	913	75.1
		Carbonate	0.00	0.00	Calcium	3808	190
TDS (mg/l or g/m ³)	139691	Sulfate	3265	68.0	Strontium	83.0	1.89
Density (g/cm ³ or tonne/m ³)	1.094	Phosphate	N/A	N/A	Barium	0.10	0.00
Anion/Cation Ratio	1.00	Borate	N/A	N/A	Iron	0.40	0.01
		Silicate	N/A	N/A	Potassium	822	21.0
Carbon Dioxide	800 PPM				Aluminum	N/A	N/A
Oxygen				POSITIVE	Chromium	N/A	N/A
					Copper	N/A	N/A
		pH at time of sampling		6.80	Lead	N/A	N/A
		pH at time of analysis			Manganese	N/A	N/A
		pH used in Calculations		6.80	Nickel	N/A	N/A

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000bbl										
Temp.	Gauge Press.	Calcite CaCO ₃		Gypsum CaSO ₄ · 2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		CO ₂ Press.
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0.	1.01	106	0.07	215	0.06	162	0.14	15.2	0.33	0.03	1.07
100	0.	1.09	116	0.01	19.3	0.07	171	0.12	13.1	0.14	0.02	1.38
120	0.	1.16	127	-0.04		0.10	239	0.11	12.0	-0.03		1.75
140	0.	1.23	137	-0.08		0.15	350	0.11	11.9	-0.17		2.17

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

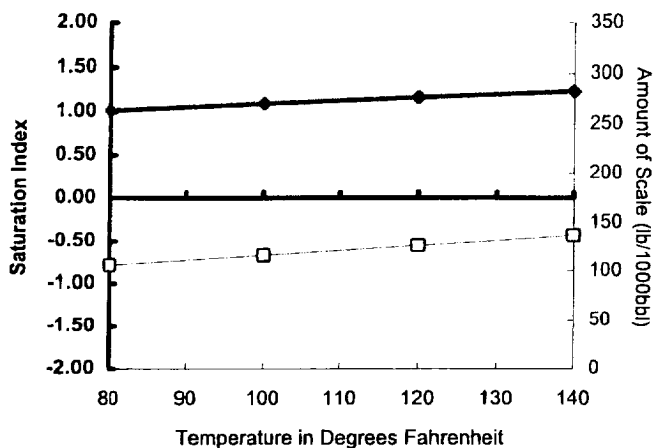
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: The reported CO₂ pressure is actually the calculated CO₂ fugacity. It is usually nearly the same as the CO₂ partial pressure.

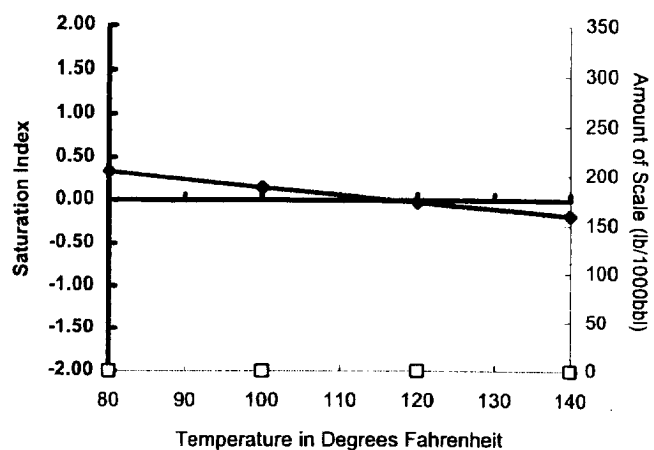
Scale Predictions from Baker Petrolite

Analysis of Sample 131919 @ 75°F for ARCO, Dec/22/99

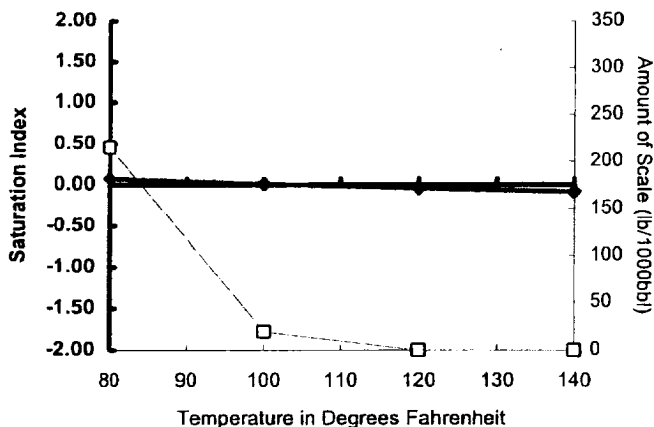
Calcite - CaCO_3



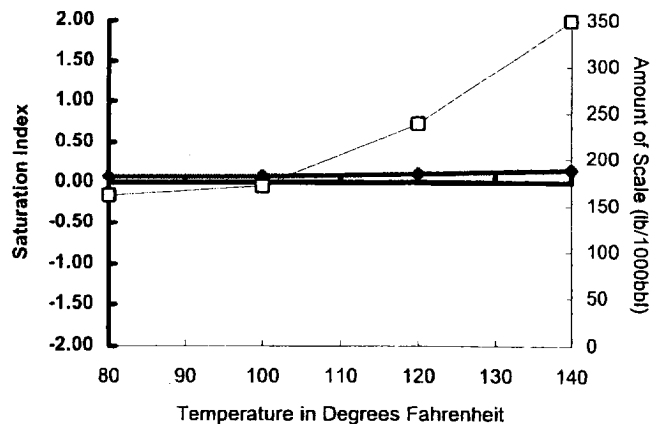
Barite - BaSO_4



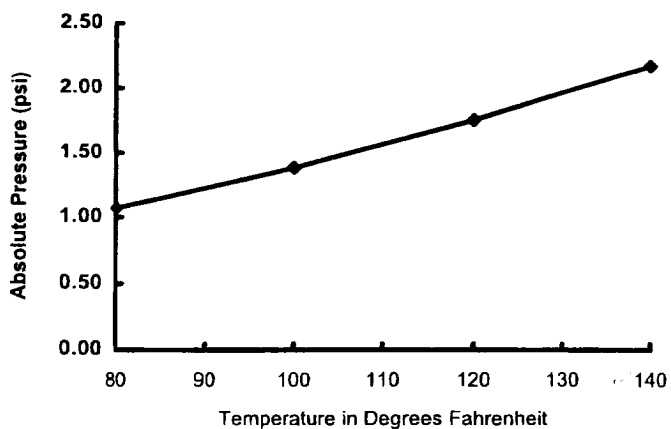
Gypsum - $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$



Anhydrite - CaSO_4



Carbon Dioxide Partial Pressure



Celestite - SrSO_4

