

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons Division
811 S. 1st Street
Artesia, NM 88210-2834

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)

UL: F, 1980' FNL & 1320' FWL
SEC. 6, T21S, R22E

5. Lease Designation and Serial No.

NM88085

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Sweet Thing Fed Ut 1

9. API Well No.

30-015-28130

10. Field and Pool, or exploratory Area

Little Box Canyon - Morrow

11. County or Parish, State

Eddy 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 FOLLOWING LEASE:
SWEET THING FEDERAL UNIT #1

THE FOLLOWING INFORMATION IS FURNISHED TO HANDLE, STORE OR DISPOSE OF WATER
PRODUCED FROM OIL AND GAS WELLS ON SAID FEDERAL LEASES AS FOLLOWS:

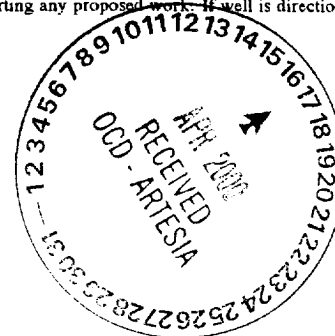
THIS LEASE DISPOSES WATER TO:

SWD SYSTEM: MYRTLE MYRA SWD SYSTEM

OPERATOR: HUGHES SERVICES

LOCATION OF DISPOSAL SITE: 100 FSL, 250 FWL, SEC. 9, T20S, R37E

WATER IS TRUCKED TO SWD LOCATION.



SEE ATTACHED FOR
CONDITIONS OF APPROVAL

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

Signed

Alexis C. Swoboda

Title Administrative Assistant

Date 4/7/00

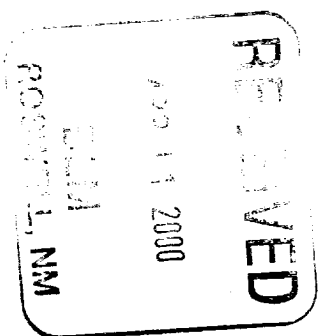
(This space for Federal or State use)

(ORIG. SGD.) ALEXIS C. SWOBODA

PETROLEUM ENGINEER

Date APR 14 2000

Conditions of approval, if any:



Water Analysis Report by Baker Petrolite

ARCO PERMIAN
SWEET THING FEDERAL
WELL #UT 1
WELLHEAD

Account Manager
RON MATTHEWS

Summary		Analysis of Sample 108004 @ 75°F					
Sampling Date	3/1/00	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date	3/14/00	Chloride	30967	873	Sodium	16649	724
Analyst	JOANNA RAGAN	Bicarbonate	100	1.64	Magnesium	376	30.9
		Carbonate	0.00	0.00	Calcium	2154	107
TDS (mg/l or g/m ³)	50769.7	Sulfate	31.0	0.65	Strontium	259	5.91
Density (g/cm ³ or tonne/m ³)	1.039	Phosphate	N/A	N/A	Barium	3.50	0.05
Anion/Cation Ratio	1.00	Borate	N/A	N/A	Iron	122	4.37
		Silicate	N/A	N/A	Potassium	108	2.76
Carbon Dioxide	125 PPM				Aluminum	N/A	N/A
Oxygen		Hydrogen Sulfide		0 PPM	Chromium	N/A	N/A
					Copper	N/A	N/A
		pH at time of sampling		6.50	Lead	N/A	N/A
		pH at time of analysis			Manganese	N/A	N/A
		pH used in Calculations		6.50	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.	-0.44		-1.93		-1.98		-1.04		0.19	0.69	0.27
100	0.	-0.33		-1.96		-1.94		-1.05		0.02	0.10	0.35
120	0.	-0.22		-1.98		-1.88		-1.04		-0.12		0.43
140	0.	-0.10		-2.00		-1.80		-1.02		-0.25		0.52

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.

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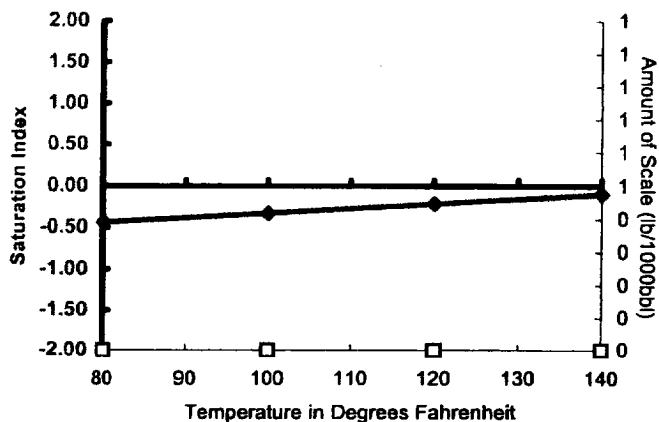
BLM

ROSWELL, NM

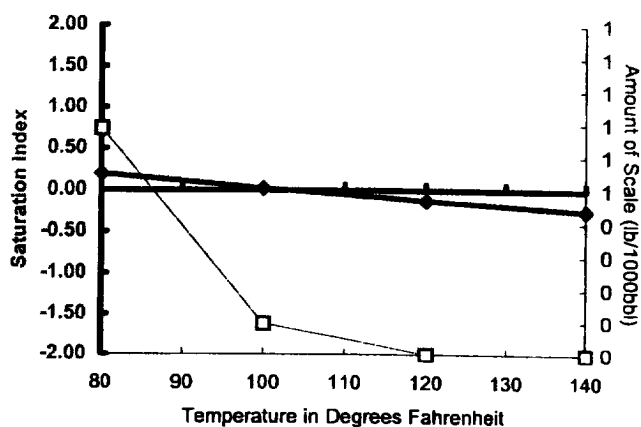
Scale Predictions from Baker Petrolite

Analysis of Sample 108004 @ 75°F for ARCO PERMIAN, Mar/14/00

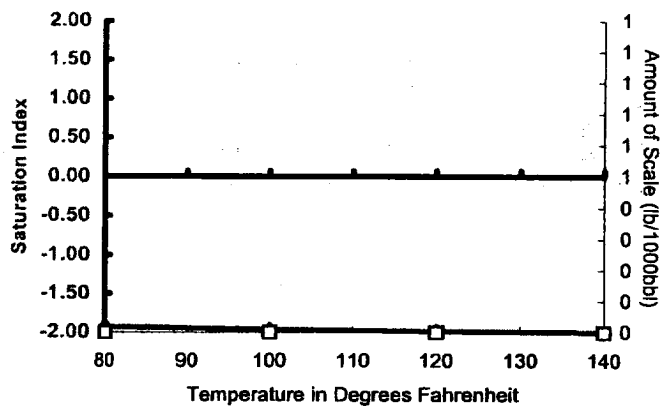
Calcite - CaCO_3



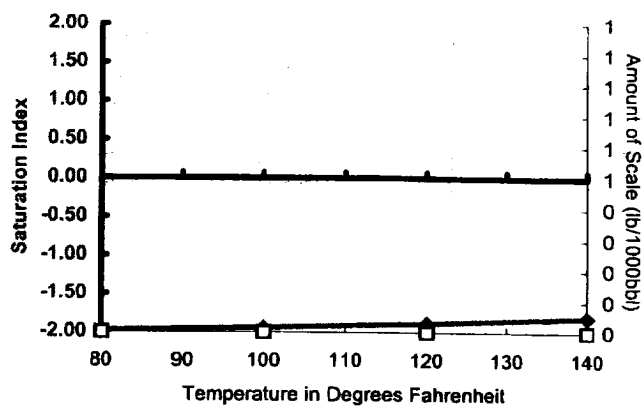
Barite - BaSO_4



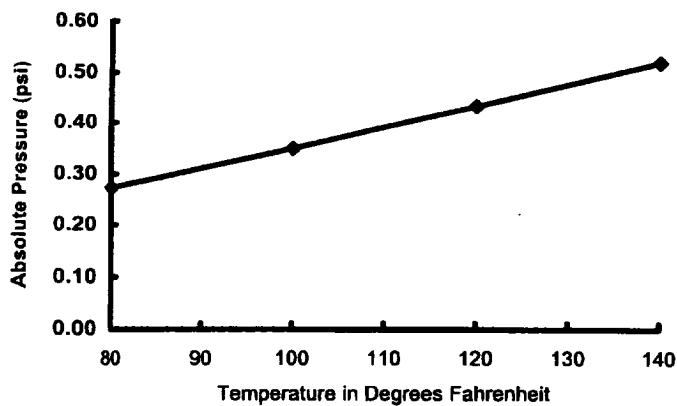
Gypsum - $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$



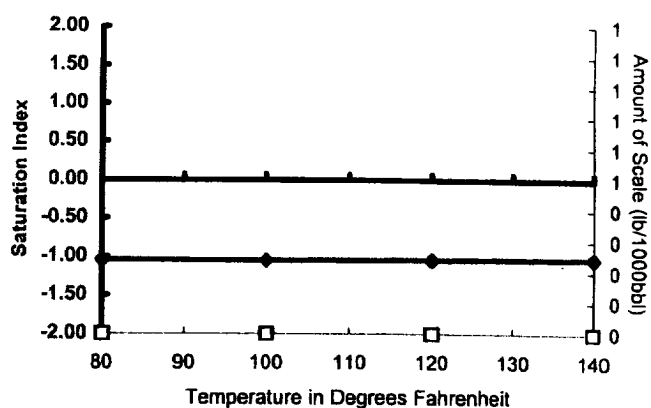
Anhydrite - CaSO_4



Carbon Dioxide Partial Pressure



Celestite - SrSO_4



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ROSWEIL, NM