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

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name
14080013527

7. If Unit or CA, Agreement Designation
NMNM71098

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

8. Well Name and No.
Barber Gas Com Lease

2. Name of Operator
ARCO Permian

9. API Well No.
30-025-~~06022~~ 06029

3. Address and Telephone No.
P.O. Box 1089, Eunice, NM 88231 505-394-1649

10. Field and Pool, or exploratory Area
Eumont Yates SRQ Gas

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Barber Gas Com #1 - UL: E,990 FWL,1650 FNL,SEC. 8,T20S,R37E
#3 - UL: H, 1650 FNL, 330 FEL, SEC. 7, T20S, R37E #4 - UL: L,660 FWL,2310 FSL,SEC. 8,T20S,R37E

11. County or Parish, State
Lea nm

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

TYPE OF SUBMISSION	TYPE OF ACTION	
☒ Notice of Intent	☐ Abandonment	☐ Change of Plans
☐ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☐ Other	☒ 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:
BARBER GAS COM LEASE BWPD: 245

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: EME SWD SYSTEM M-9
OPERATOR: RICE OPERATING COMPANY
LOCATION OF DISPOSAL SITE: 100 FSL, 250 FWL, SEC. 9, T20S, R37E
WATER IS TRUCKED AND INJECTED INTO EME SWD SYSTEM M-9.

SEE ATTACHED FOR CONDITIONS OF APPROVAL

RECEIVED
2000 MAR 27 P 3:42
BUREAU OF LAND MGMT.
ROSWELL RESOURCE AREA

14. I hereby certify that the foregoing is true and correct
Signed [signature] Title Administrative Assisstant Date 3/24/00

(This space for Federal or State office use)
Approved by (ORIG. SGD.) ALEXIS C. SWOBODA Title PETROLEUM ENGINEER Date 3/31/2000
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

* See Instruction on Reverse Side

BAKER HUGHES
Baker Petrolite

Water Analysis Report by Baker Petrolite

ARCO PERMIAN
BARBER UNIT
BATTERY
WATER TANK

Account Manager
RON MATTHEWS

Summary	
Sampling Date	3/1/00
Analysis Date	3/14/00
Analyst	JOANNA RAGAN
TDS (mg/l or g/m³)	39132
Density (g/cm³ or tonne/m³)	1.031
Anion/Cation Ratio	1.00
Carbon Dioxide	60 PPM
Oxygen	

Analysis of Sample 108008 @ 75°F

Anions	mg/l	meq/l	Cations	mg/l	meq/l
Chloride	**21433**	**605**	**Sodium**	**11210**	**488**
Bicarbonate	**110**	**1.80**	**Magnesium**	**918**	**75.5**
Carbonate	**0.00**	**0.00**	**Calcium**	**1904**	**95.0**
Sulfate	**3075**	**64.0**	**Strontium**	**36.0**	**0.82**
Phosphate	N/A	N/A	**Barium**	**0.05**	**0.00**
Borate	N/A	N/A	**Iron**	**0.70**	**0.03**
Silicate	N/A	N/A	Potassium	445	11.4
			Aluminum	N/A	N/A
Hydrogen Sulfide		80 PPM	Chromium	N/A	N/A
			Copper	N/A	N/A
pH at time of sampling		6.60	Lead	N/A	N/A
pH at time of analysis			Manganese	N/A	N/A
pH used in Calculations		**6.60**	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 $CaSO_4 \cdot 2H_2O$		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.	-0.37		0.05	151	-0.00		0.09	4.84	0.36	0.02	0.25
100	0.	-0.25		0.03	85.7	0.04	95.1	0.09	4.85	0.20	0.01	0.32
120	0.	-0.13		0.02	52.1	0.11	238	0.10	5.38	0.06	0.00	0.40
140	0.	-0.00		0.02	45.8	0.20	404	0.12	6.30	-0.05		0.48

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.

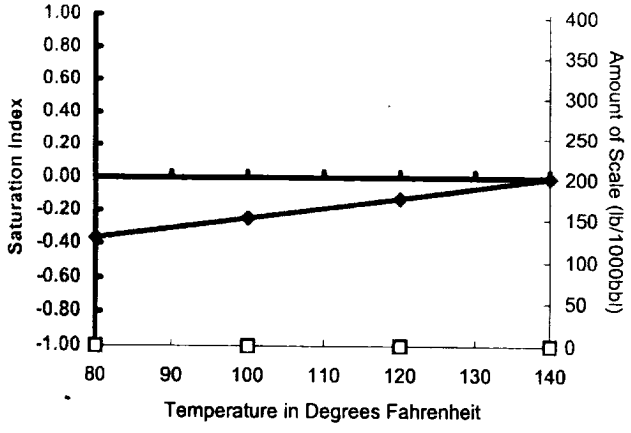
Note 3: The reported CO_2 pressure is actually the calculated CO_2 fugacity. It is usually nearly the same as the CO_2 partial pressure.

BAKER HUGHES
Baker Petrolite

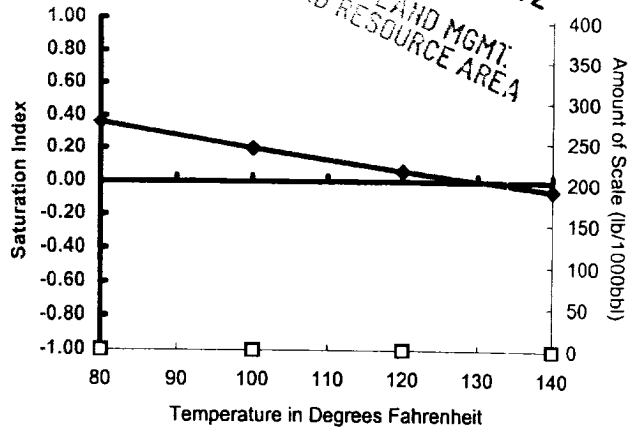
Scale Predictions from Baker Petrolite

Analysis of Sample 108008 @ 75°F for ARCO PERMIAN , Mar/14/00

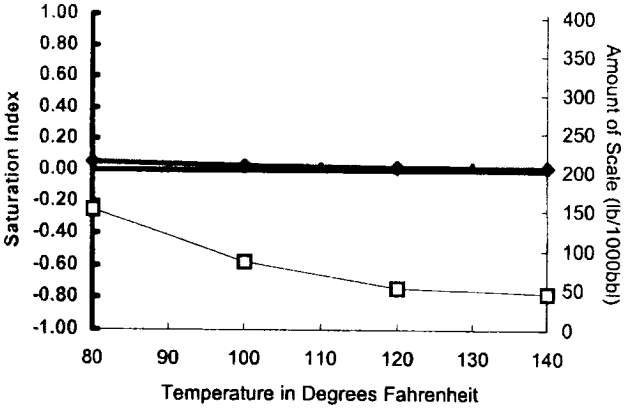
Calcite - $CaCO_3$



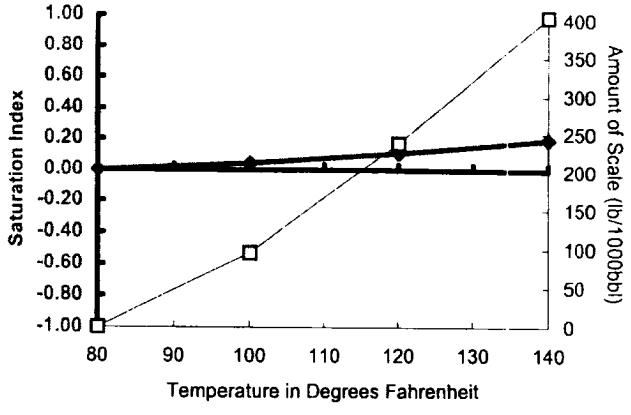
Barite - $BaSO_4$



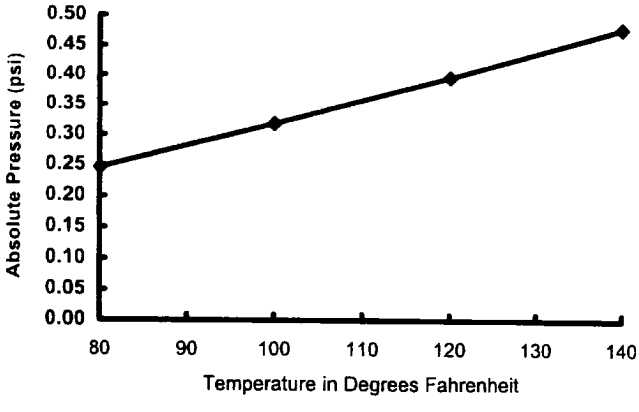
Gypsum - $CaSO_4 \cdot 2H_2O$



Anhydrite - $CaSO_4$



Carbon Dioxide Partial Pressure



Celestite - $SrSO_4$