

N.M. OIL CONS. COMMISSION  
P.O. BOX 1980  
HOBBS, NEW MEXICO 88240  
4-14-94

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

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Pogo Producing Company

3. Address and Telephone No.

P. O. Box 10340, Midland, TX 79702-7340 (915)682-6822

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

330' FNL & 330' FEL, Section 28, T22S, R32E

5. Lease Designation and Serial No.

NM-69377

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Red Tank 28 Federal #1

9. API Well No.

30-025-31661

10. Field and Pool, or Exploratory Area

W. Red Tank Delaware

11. County or Parish, State

Lea County, 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.)

Pogo respectfully request permission to dispose of off-lease produced water from the above well via 6" poly line into the Red Tank 28 Federal #3 SWD located NW/4, NE/4, Section 28, T22S, R32E, Lea County. The Red Tank 28 Federal #3 SWD is an approved disposal well per Administrative Order SWD-526 (Attached).

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BUREAU OF LAND MGMT.  
HOBBS, NM.

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

Signed

Title Senior Operations Engineer Date April 7, 1994

(This space for Federal or State office use)

Orig. Signed by Shannon J. Shaw

Title Petroleum Engineer

Date 5/12/94

Approved by  
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

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MAY 11 1964

**OGD ROBB  
OFFICE**



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Carlsbad Resource Area Headquarters

P. O. Box 1778

Carlsbad, New Mexico 88220

April 7, 1994

OPERATOR: Pogo Producing Company Lease No. NM-67377

WELL NO. & NAME Red Tank 28 Federal #1

LOCATION: NE 1/4 NE 1/4, Sec. 28, T. 22 S., R. 32 E., Eddy County, N.M.  
Lea

The check list below indicates the information needed before your Waste or Salt Water Disposal method can be approved:

Brushy Canyon/Bone Spring Name(s) of formation(s) producing water on the lease.

39 Total BBLS

Amount of water produced from each formation in barrels per day.

Attached

A water analysis of produced water from each zone shown in at least the total dissolved solids, ph, and the concentrations of chlorides and sulfates.

500 BBL F.G. Tank

How water is stored on the lease.

6" Poly Line

How water is moved to disposal facility.

Pogo Producing Co.  
Red Tank 28 Fed. #3 SWD

Operator's name, well name and location, by 1/4, section, township and range, of the disposal facility. If the disposal facility is an approved disposal system, the operator's name and the name of the disposal system should suffice.

Supervisory Petroleum Engineer Technician

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**UCD HODGINS  
OFFICE**

PETROLITE

Petrolite Corporation  
510 West Texas  
Arlington, NM 88210-2041

(505) 746-3588  
Fax (505) 746-3580

## TRETOLITE DIVISION

Reply to:  
P.O. Box FF  
Arlington, NM  
88211-7531

## WATER ANALYSIS REPORT

Company : POGO PRODUCING  
Address : MIDLAND, TX  
Lease : RT 28  
Well : #1  
Sample Pt. : WELLHEAD

Date : 3/24/94  
Date Sampled : 3/23/94  
Analysis No. : 633

ANALYSIS		mg/L	meq/L
-----		----	-----
1. pH	5.4		
2. H <sub>2</sub> S	NEG		
3. Specific Gravity	1.150		
4. Total Dissolved Solids		194824.6	
5. Suspended Solids		NR	
6. Dissolved Oxygen		NR	
7. Dissolved CO <sub>2</sub>		NR	
8. Oil In Water		NR	
9. Phenolphthalein Alkalinity (CaCO <sub>3</sub> )			
10. Methyl Orange Alkalinity (CaCO <sub>3</sub> )			
11. Bicarbonate	HCO <sub>3</sub>	122.0	HCO <sub>3</sub> 2.0
12. Chloride	Cl	119280.0	Cl 3164.7
13. Sulfate	SO <sub>4</sub>	200.0	SO <sub>4</sub> 4.2
14. Calcium	Ca	6600.0	Ca 129.3
15. Magnesium	Mg	1461.7	Mg 120.3
16. Sodium (calculated)	Na	67160.9	Na 2921.3
17. Iron	Fe	NR	
18. Barium	Ba	NR	
19. Strontium	Sr	NR	
20. Total Hardness (CaCO <sub>3</sub> )		22500.0	

## PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter				Compound      Equiv wt X meq/L = mg/L			
329	*Ca <-----	*HCO3	2	Ca(HCO3)2	81.0	2.0	162
120	/----->			CaSO4	68.1	4.2	283
	*Mg <-----	*SO4	4	CaCl2	55.5	320.2	17933
	<-----/			Mg(HCO3)2	73.2		
2921	*Na <-----	*Cl	3365	MgSO4	60.2		
				MgCl2	47.6	120.3	5725
Saturation Values Dist. Water 20 C				NaHCO3	84.0		
CaCO3		13 mg/L		Na2SO4	71.0		
CaSO4 * 2H2O		2090 mg/L		NaCl	58.4	2921.3	170721
BaSO4		2.4 mg/L					

REMARKS:

Petrolite Oilfield Chemicals Group

Respectfully submitted,  
A. MILLER

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MAY 1 1967

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OFFICE

SCALE TENDENCY REPORT  
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Company : POGO PRODUCING  
Address : MIDLAND, TX  
Lease : RT 28  
Well : #1  
Sample Pt. : WELLHEAD

Date : 3/24/94  
Date Sampled : 3/23/94  
Analysis No. : 633  
Analyst : A. MILLER

STABILITY INDEX CALCULATIONS  
(Stiff-Davis Method)  
CaCO<sub>3</sub> Scaling Tendency

S.I. = -0.9 at 60 deg. F or 16 deg. C  
S.I. = -0.9 at 80 deg. F or 27 deg. C  
S.I. = -0.8 at 100 deg. F or 38 deg. C  
S.I. = -0.8 at 120 deg. F or 49 deg. C  
S.I. = -0.7 at 140 deg. F or 60 deg. C

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CALCIUM SULFATE SCALING TENDENCY CALCULATIONS  
(Skillman-McDonald-Stiff Method)  
Calcium Sulfate

S = 2209 at 60 deg. F or 16 deg C  
S = 2435 at 80 deg. F or 27 deg C  
S = 2580 at 100 deg. F or 38 deg C  
S = 2646 at 120 deg. F or 49 deg C  
S = 2692 at 140 deg. F or 60 deg C

Petrolite Oilfield Chemicals Group

Respectfully Submitted,  
A. MILLER

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U.S. HOUSE  
OFFICE