

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

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)

660' FSL & 660' FEL, Section 27, T22S, R32E

5. Lease Designation and Serial No.

NM-81272

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Prize Federal #2

9. API Well No.

30-025-31902

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).

RECEIVED

APR 14 2 22 AM '94

BUREAU OF LAND MGMT.
HOBBS, NM.

APR 15 12 15 PM '94

RECEIVED

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

Petroleum Engineer

5/12/94

RECEIVED

11/1/50

**OLD HOUSES
OFFICE**

11/1/50



IN REPLY REFER TO
3162

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-81272

WELL NO. & NAME Prize Federal #2

LOCATION: SE 1/4 SE 1/4, Sec. 27, 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.

49 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

RECEIVED

NOV 11 1964

JOHN HUBBS
OFFICE

TRETOLITE DIVISION

(505) 746-3588
Fax (505) 746-3580Reply to:
P.O. Box FF
Artesia, NM
88211-7531

WATER ANALYSIS REPORT

Company : POGO PRODUCING
Address : MIDLAND, TX
Lease : PRIZE ~~38~~
Well : #2
Sample Pt. : WELLHEADDate : 3/17/94
Date Sampled : 3/16/94
Analysis No. : 624

ANALYSIS		mg/L	* meq/L	
-----		----	-----	
1.	pH	5.5		
2.	H ₂ S	NEG		
3.	Specific Gravity	1.175		
4.	Total Dissolved Solids	220997.3		
5.	Suspended Solids	NR		
6.	Dissolved Oxygen	NR		
7.	Dissolved CO ₂	NR		
8.	Oil In Water	NR		
9.	Phenolphthalein Alkalinity (CaCO ₃)			
10.	Methyl Orange Alkalinity (CaCO ₃)			
11.	Bicarbonate	HCO ₃ 122.0	HCO ₃	2.0
12.	Chloride	Cl 135255.0	Cl	3815.4
13.	Sulfate	SO ₄ 125.0	SO ₄	2.6
14.	Calcium	Ca 8120.0	Ca	405.2
15.	Magnesium	Mg 1268.4	Mg	104.4
16.	Sodium (calculated)	Na 76106.9	Na	3310.4
17.	Iron	Fe NR		
18.	Barium	Ba NR		
19.	Strontium	Sr NR		
20.	Total Hardness (CaCO ₃)	25500.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt X meq/L	= mg/L
-----	-----	-----	-----
104 *Mg -----> *SO ₄	CaSO ₄	60.1	2.6 177
-----<-----/	CaCl ₂	55.5	400.6 22229
3310 *Na -----> *Cl	Mg(HCO ₃) ₂	73.2	
	MgSO ₄	60.2	
	MgCl ₂	47.6	104.4 4968
	NaHCO ₃	84.0	
	Na ₂ SO ₄	71.0	
	NaCl	58.4	3310.4 193462

Saturation Values Dist. Water 20 C
 CaCO₃ 13 mg/L
 CaSO₄ * 2H₂O 2090 mg/L
 BaSO₄ 2.4 mg/L

REMARKS:

Petrolite Oilfield Chemicals Group

Respectfully submitted,
A. MILLER

RECEIVED

22

HOBBBS
OFFICE

SCALE TENDENCY REPORT

Company : POGO PRODUCING
Address : MIDLAND, TX
Lease : PRIZE 37
Well : #2
Sample Pt. : WELLHEAD

Date : 3/17/94
Date Sampled : 3/16/94
Analysis No. : 624
Analyst : A. MILLER

STABILITY INDEX CALCULATIONS (Stiff-Davis Method) CaCO₃ Scaling Tendency

S.I. =	-0.7	at	60 deg. F	or	16 deg. C
S.I. =	-0.6	at	80 deg. F	or	27 deg. C
S.I. =	-0.6	at	100 deg. F	or	38 deg. C
S.I. =	-0.6	at	120 deg. F	or	49 deg. C
S.I. =	-0.5	at	140 deg. F	or	60 deg. C

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

S =	1779	at	60 deg. F	or	16 deg. C
S =	1967	at	80 deg. F	or	27 deg. C
S =	2087	at	100 deg. F	or	38 deg. C
S =	2140	at	120 deg. F	or	49 deg. C
S =	2177	at	140 deg. F	or	60 deg. C

Petrolite Oilfield Chemicals Group

Respectfully submitted,
A. MILLER

RECEIVED

1967

OFFICE