

PAH
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

5. Lease Designation and Serial No.

NM- 77060

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Red Tank 34 Federal #4

9. API Well No.

30-025-32136

10. Field and Pool, or Exploratory Area

W. Red Tank Delaware

11. County or Parish, State

Lea County, NM

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)

1980 FNL & 1980 FEL, Section 34, T22S, R32E

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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APR 15 12 16 PM '94

APR 15 1994

APR 14 2 19 PM '94
BUREAU OF LAND MANAGEMENT
HOBBS, NEW MEXICO

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)

Approved by Orig. Signed by Shannon J. Shaw

Title

Petroleum Engineer

Date

5/12/94

Conditions of approval, if any:

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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-77060

WELL NO. & NAME Red Tank 34 Federal #4

LOCATION: SW 1 NE 1, Sec. 34, 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:

<u>Brushy Canyon/Bone Spring</u>	Name(s) of formation(s) producing water on the lease.
<u>150 Total BBLS</u>	Amount of water produced from each formation in barrels per day.
<u>Attached</u>	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.
<u>500 BBL F.G. Tank</u>	How water is stored on the lease.
<u>6" Poly Line</u>	How water is moved to disposal facility.
<u>Pogo Producing Co.</u> <u>Red Tank 28 Fed. #3 SWD</u>	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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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 : RT 34
Well : #4
Sample Pt. : WELLHEADDate : 3/17/94
Date Sampled : 3/16/94
Analysis No. : 623

ANALYSIS		mg/L		* meq/L
-----		----		-----
1. pH	5.3			
2. H ₂ S	NEG			
3. Specific Gravity	1.165			
4. Total Dissolved Solids		259356.0		
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	146.0	HCO ₃	2.4
12. Chloride	Cl	158046.0	Cl	4458.3
13. Sulfate	SO ₄	125.0	SO ₄	2.6
14. Calcium	Ca	5800.0	Ca	289.4
15. Magnesium	Mg	805.4	Mg	66.3
16. Sodium (calculated)	Na	94433.6	Na	4107.6
17. Iron	Fe	NR		
18. Barium	Ba	NR		
19. Strontium	Sr	NR		
20. Total Hardness (CaCO ₃)		17800.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter		Compound	Equiv wt X meq/L	=	mg/L
+-----+					
66	*Mg	CaSO ₄	68.1		
4108	*Na	CaCl ₂	55.5	284.4	15783
		Mg(HCO ₃) ₂	73.2		
		MgSO ₄	60.2		
		MgCl ₂	47.6	66.3	3154
		NaHCO ₃	84.0		
		Na ₂ SO ₄	71.0		
		NaCl	58.4	4107.6	240048

Saturation Values Dist. Water 20 C

CaCO ₃	13 mg/L
CaSO ₄ * 2H ₂ O	2090 mg/L
BaSO ₄	2.4 mg/L

REMARKS:

Petrolite Oilfield Chemicals Group

Respectfully submitted,
A. MILLER

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SCALE TENDENCY REPORT

Company : POGO PRODUCING
Address : MIDLAND, TX
Lease : RT 34
Well : #4
Sample Pt. : WELLHEAD

Date : 3/17/94
Date Sampled : 3/16/94
Analysis No. : 623
Analyst : A. MILLER

STABILITY INDEX CALCULATIONS (Stiff-Davis Method) CaCO3 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. =	-0.8	at	140 deg.	F or	60 deg.	C

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

S =	2246	at	60 deg.	F or	16 deg	C
S =	2474	at	80 deg.	F or	27 deg	C
S =	2617	at	100 deg.	F or	38 deg	C
S =	2679	at	120 deg.	F or	49 deg	C
S =	2722	at	140 deg.	F or	60 deg	C

Petrolite Oilfield Chemicals Group

Respectfully submitted,
A. MILLER

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