

DAH ✓
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 & 660' FWL, Section 25, T22S, R32E

5. Lease Designation and Serial No.
NM- 2379

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Covington "A" Federal #2

9. API Well No.
30-025-31850

10. Field and Pool, or Exploratory Area
W. Red Tank Delaware

11. Country or Parish, State
Lea County, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> 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 23 AM '94
BUREAU OF LAND MGMT.
HOBBS, NM.

RECEIVED
APR 15 12 18 PM '94
CIVIL AREA

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

Signed Shannon J. Shaw
(This space for Federal or State office use)
Orig. Signed by Shannon J. Shaw

Title Senior Operations Engineer Date April 7, 1994

Title SENIOR OPERATIONS ENGINEER Date 5/9/94

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



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Carlsbad Resource Area Headquarters

P. O. Box 1778

Carlsbad, New Mexico 88220

IN REPLY REFER TO

3162

April 7, 1994

OPERATOR: Pogo Producing Company Lease No. NM-2379

WELL NO. & NAME Covington "A" Federal #2

LOCATION: NW 1/4 NW 1/4, Sec. 25, 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.

87 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. 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.
Red Tank 28 Fed. #3 SWD

Supervisory Petroleum Engineer Technician

PETROLITE

Petrolite Corporation
510 West Texas
Artesia NM 83210-2041

TRETOLITE DIVISION

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

Reply to:
P.O. Box 88
Artesia, NM
88211-7531

WATER ANALYSIS REPORT

Company : POGO PRODUCING
Address : MIDLAND, TX
Lease : COVINGTON "A"
Well : #2
Sample Pt. : WELLHEAD

Date : 3/17/94
Date Sampled : 3/16/94
Analysis No. : 620

ANALYSIS	mg/L	* meq/L
1. pH	5.8	
2. H ₂ S	NEG	
3. Specific Gravity	1.110	
4. Total Dissolved Solids	170285.0	
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 1684.0	HCO ₃ 27.6
12. Chloride	Cl 101601.0	Cl 2865.0
13. Sulfate	SO ₄ 625.0	SO ₄ 13.0
14. Calcium	Ca 1280.0	Ca 63.9
15. Magnesium	Mg 292.3	Mg 21.0
16. Sodium (calculated)	Na 64802.7	Na 2813.7
17. Iron	Fe NR	
18. Barium	Ba NR	
19. Strontium	Sr NR	
20. Total Hardness (CaCO ₃)	4400.0	

PROBABLE MINERAL COMPOSITION

mg/L	meq/L	mg/L	meq/L
64	*Ca <-----	*HCO ₃	28
24	*Mg <-----	*SO ₄	13
2819	*Na <-----	*Cl	2866
Saturation Values Dist. Water 20 C			
CaCO ₃	13 mg/L	Ca(HCO ₃) ₂	81.0
CaSO ₄ + 2H ₂ O	2090 mg/L	CaSO ₄	68.1
BaSO ₄	2.4 mg/L	CaCl ₂	55.5
		Mg(HCO ₃) ₂	73.2
		MgSO ₄	60.2
		MgCl ₂	47.6
		NaHCO ₃	84.0
		Na ₂ SO ₄	71.0
		NaCl	58.4
			2818.7
			1.64727

REMARKS:

Petrolite Oilfield Chemicals Group.

Respectfully submitted,
A. MILLER

SCALE TENDENCY REPORT

Company	: POGO PRODUCING	Date	: 3/17/94
Address	: MIDLAND, TX	Date Sampled	: 3/15/94
Lease	: COVINGTON "A"	Analysis No.	: 620
Well	: #2	Analyst	: A. MILLER
Sample Pt.	: WELLHEAD		

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

S.I. =	-0.1	at	60 deg. F	or	15 deg. C
S.I. =	-0.1	at	80 deg. F	or	27 deg. C
S.I. =	-0.0	at	100 deg. F	or	33 deg. C
S.I. =	0.0	at	120 deg. F	or	49 deg. C
S.I. =	0.1	at	140 deg. F	or	60 deg. C

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

S =	6557	at	60 deg. F	or	15 deg. C
S =	6557	at	80 deg. F	or	27 deg. C
S =	6474	at	120 deg. F	or	49 deg. C
S =	6557	at	140 deg. F	or	60 deg. C

Petrolite Oilfield Chemicals Group

Respectfully submitted,