N.M. OIL CONS. COMMISSION
P. 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

RECEIVED
APR 14 2 20 PM '94
BUREAU OF LAND MGMT.
HOBBS, N.M.

SUBMIT IN TRIPLICATE

1. Type of Well
   [X] 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' FSL & 2310' FWL, Section 27, T22S, R32E

5. Lease Designation and Serial No.
   NM- 69376
6. If Indian, Allottee or Tribe Name
7. If Unit or CA, Agreement Designation
8. Well Name and No.
   Federal 27 #3
9. API Well No.
   30-025-31618
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	TYPE OF ACTION	
[X] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[ ] Other _____	[X] 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.)*

SJS

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)~~.

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:

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

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-69376

WELL NO. & NAME Federal 27 #1

LOCATION: SE ¼ SW ¼, Sec. 27, T. 22 S., R. 32 E., ~~Eddy~~ Lea County, N.M.

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.
135 Total BBLS	Amount of water produced from each formation in barrels per day.
Attached	A water analysis of produced water from each zone showin 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 ¼¼, 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

PETROLITE

TRETOLITE DIVISION

Petrolite Corporation
510 West Texas
Artesia, NM 88210-2041

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

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

WATER ANALYSIS REPORT

Company : POGO PRODUCING
Address : MIDLAND, TX
Lease : RT 27
Well : #1
Sample Pt. : WELLHEAD

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

	ANALYSIS		mg/L		* meq/L
1.	pH	5.9			
2.	H2S	NEG			
3.	Specific Gravity	1.190			
4.	Total Dissolved Solids		279738.2		
5.	Suspended Solids		NR		
6.	Dissolved Oxygen		NR		
7.	Dissolved CO2		NR		
8.	Oil In Water		NR		
9.	Phenolphthalein Alkalinity (CaCO3)				
10.	Methyl Orange Alkalinity (CaCO3)				
11.	Bicarbonate	HCO3	134.0	HCO3	2.2
12.	Chloride	Cl	171891.0	Cl	4848.8
13.	Sulfate	SO4	50.0	SO4	1.0
14.	Calcium	Ca	13840.0	Ca	690.6
15.	Magnesium	Mg	2073.7	Mg	170.6
16.	Sodium (calculated)	Na	91749.5	Na	3990.8
17.	Iron	Fe	NR		
18.	Barium	Ba	NR		
19.	Strontium	Sr	NR		
20.	Total Hardness (CaCO3)		43100.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter

691	*Ca <----- *HCO3	2
	/------->	
171	*Mg -----> *SO4	1
	<----------/	
3991	*Na -----> *Cl	4849

Saturation Values Dist. Water 20 C

CaCO3	13 mg/L
CaSO4 * 2H2O	2090 mg/L
BaSO4	2.4 mg/L

Compound	Equiv wt	X meq/L	= mg/L
Ca(HCO3)2	81.0	2.2	178
CaSO4	68.1	1.0	71
CaCl2	55.5	687.4	38143
Mg(HCO3)2	73.2		
MgSO4	60.2		
MgCl2	47.6	170.6	8122
NaHCO3	84.0		
Na2SO4	71.0		
NaCl	58.4	3990.8	233225

REMARKS:

Petrolite Oilfield Chemicals Group

Respectfully submitted,
A. MILLER

SCALE TENDENCY REPORT

Company	: POGO PRODUCING	Date	: 3/17/94
Address	: MIDLAND, TX	Date Sampled	: 3/16/94
Lease	: RT 27	Analysis No.	: 623
Well	: #1	Analyst	: A. MILLER
Sample Pt.	: WELLHEAD		

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

S.I. =	0.2	at	60 deg. F or	16	deg. C
S.I. =	0.1	at	80 deg. F or	27	deg. C
S.I. =	0.1	at	100 deg. F or	38	deg. C
S.I. =	0.2	at	120 deg. F or	49	deg. C
S.I. =	0.2	at	140 deg. F or	60	deg. C

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

S =	953	at	60 deg. F or	16	deg C
S =	1059	at	80 deg. F or	27	deg C
S =	1125	at	100 deg. F or	38	deg C
S =	1154	at	120 deg. F or	49	deg C
S =	1173	at	140 deg. F or	60	deg C

Petrolite Oilfield Chemicals Group

Respectfully submitted,
A. MILLER