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Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MAY 05 '94
O. C.
ARTESIA, OFFICE

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

5. Lease Designation and Serial No.: NM-43744

6. If Indian, Allottee or Tribe Name:

7. If Unit or CA, Agreement Designation:

1. Type of Well: [XX] Oil Well [ ] Gas Well [ ] Other

2. Name of Operator: Pogo Producing Company

8. Well Name and No.: Sand Dunes 34 Federal No. 3

3. Address and Telephone No.: P. O. Box 10340, Midland, TX 79702-7340 (915)682-6822

9. API Well No.: 30-015-27240

4. Location of Well (Footage, Sec., T., R., M., or Survey Description): 330' FSL & 330' FEL, Section 34, T23S, R31E

10. Field and Pool, or Exploratory Area: Undes Ingle Wells Delaware

11. County or Parish, State: Eddy 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
[ ] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other _____	[ ] 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 Producing Company request permission to use produced water to drill Delaware and Bone Springs wells after surface pipe has been set and cemented. Attached are copies of water analysis caught at our Red Tank 28 Federal No. 3 and Calmon No. 5 SWD's which collect and inject waters produced from the Delaware and Bone Springs formations. This analysis shows Pogo's produced waters are extremely high in chlorides and are basically 10# brine water thus will not adversely effect the salt sections.

CARLSBAD AREA

FEB 9 10 53 AM '94

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I hereby certify that the foregoing is true and correct

Signed Barrett Tessmer Title Senior Operations Engineer Date February 7, 1994

(This space for Federal or State office use)

Approved by Orig. Signed by Shannon J. Shaw Title PETROLEUM ENGINEER Date 4/28/94

Conditions of approval, if any:

e 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 epresentations as to any matter within its jurisdiction.

TRETOLITE
Chemicals and Services

16010 Barker's Point Lane • Houston, Texas 77079
713 558-5200 • Telex: 4620348 • FAX: 713 589-4707

Reply to: P.O. Box FF
Artesia, New Mexico 88210
(505) 746-3588 Phone
(505) 746-3580 Fax

WATER ANALYSIS REPORT

Company : POGO PRODUCING
Address : MIDLAND, TEXAS
Lease : 28-3
Well : SWD
Sample Pt. : TANK

Date : 10/22/93
Date Sampled : 10/22/93
Analysis No. : 370

	ANALYSIS		mg/L		* meq/L
1.	pH	5.3			
2.	H2S	NR			
3.	Specific Gravity	1.140			
4.	Total Dissolved Solids		223918.2		
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	97.0	HCO3	1.6
12.	Chloride	Cl	138024.0	Cl	3893.5
13.	Sulfate	SO4	375.0	SO4	7.8
14.	Calcium	Ca	13600.0	Ca	678.6
15.	Magnesium	Mg	2583.6	Mg	212.6
16.	Sodium (calculated)	Na	69238.6	Na	3011.7
17.	Iron	Fe	NR		
18.	Barium	Ba	NR		
19.	Strontium	Sr	NR		
20.	Total Hardness (CaCO3)		44600.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter

679	*Ca <----- *HCO3	2
	/------->	
213	*Mg -----> *SO4	8
	<----------/	
3012	*Na -----> *Cl	3893

Compound	Equiv wt	X meq/L	= mg/
Ca(HCO3)2	81.0	1.6	129
CaSO4	68.1	7.8	531
CaCl2	55.5	669.2	37136
Mg(HCO3)2	73.2		
MgSO4	60.2		
MgCl2	47.6	212.6	10119
NaHCO3	84.0		
Na2SO4	71.0		
NaCl	58.4	3011.7	176003

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

REMARKS:
A. MILLER / FILE
RED TANK 23 SWD

Petrolite Oilfield Chemicals Group

Respectfully submitted,
STEVE TIGERT

TRETOLITE
Chemicals and Services

PETROLITE

16010 Barker's Point Lane • Houston, Texas 77079
713 558-5200 • Telex: 4620346 • FAX: 713 589-4737

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(505) 746-3580 Fax

WATER ANALYSIS REPORT

Company : POGO PRODUCING
Address : MIDLAND, TEXAS
Lease : CALMON #5
Well : SWD
Sample Pt. : UNKNOWN

Date : 09/03/93
Date Sampled : 09/02/93
Analysis No. : 330

	ANALYSIS		mg/L		* meq/L
1.	pH	5.1			
2.	H2S	0 PPM			
3.	Specific Gravity	1.165			
4.	Total Dissolved Solids		261670.1		
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	61.0	HCO3	1.0
12.	Chloride	Cl	161880.0	Cl	4566.4
13.	Sulfate	SO4	50.0	SO4	1.0
14.	Calcium	Ca	16400.0	Ca	818.4
15.	Magnesium	Mg	3338.4	Mg	274.7
16.	Sodium (calculated)	Na	79900.7	Na	3475.5
17.	Iron	Fe	40.0		
18.	Barium	Ba	NR		
19.	Strontium	Sr	NR		
20.	Total Hardness (CaCO3)		54700.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter

818	*Ca <----- *HCO3	1
	/------->	
275	*Mg -----> *SO4	1
	<----------/	
3475	*Na -----> *Cl	4566

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	1.0	81
CaSO4	68.1	1.0	71
CaCl2	55.5	816.3	45298
Mg(HCO3)2	73.2		
MgSO4	60.2		
MgCl2	47.6	274.7	13075
NaHCO3	84.0		
Na2SO4	71.0		
NaCl	58.4	3475.5	203106

REMARKS:
A. MILLER / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,
STEVE TIGERT