

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FEB - 8 1994

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-43744

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Sand Dunes 34 Federal No. 8

9. API Well No.

30-015-27548

10. Field and Pool, or Exploratory Area

Undes Ingle Wells Delaware

11. County or Parish, State

Eddy 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)

330' FSL & 1980' FEL
Section 34, T23S, R31E

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.)

3. 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.

I hereby certify that the foregoing is true and correct

Signed

Title Senior Operations Engineer

Date February 7, 1994

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

TRETOLITE®

Chemicals and Services



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

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 : 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	Compound	Equiv wt	X meq/L	= mg/L
818 *Ca <----- *HCO3	Ca(HCO3)2	81.0	1.0	81
----- /----->	CaSO4	68.1	1.0	71
275 *Mg -----> *SO4	CaCl2	55.5	816.3	45298
----- <----- /	Mg(HCO3)2	73.2		
3475 *Na -----> *Cl	MgSO4	60.2		
----- +-----+	MgCl2	47.6	274.7	13075
Saturation Values Dist. Water 20 C	NaHCO3	84.0		
CaCO3 13 mg/L	Na2SO4	71.0		
CaSO4 * 2H2O 2090 mg/L	NaCl	58.4	3475.5	203106
BaSO4 2.4 mg/L				

REMARKS:

----- A. MILLER / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,
STEVE TIGERT

TRETOLITE

Chemicals and Services

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713 558-5200 • Telex: 4620346 • FAX: 713 589-4737Reply to: P.O. Box FF
Artasia, 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. : TANKDate : 10/22/93
Date Sampled : 10/22/93
Analysis No. : 370

ANALYSIS		mg/L	* meq/L
-----		-----	-----
1. pH	5.3		
2. H ₂ S	NR		
3. Specific Gravity	1.140		
4. Total Dissolved Solids		223918.2	
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	97.0	HCO ₃ 1.6
12. Chloride	Cl	138024.0	Cl 3393.5
13. Sulfate	SO ₄	375.0	SO ₄ 7.8
14. Calcium	Ca	13600.0	Ca 578.6
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 (CaCO ₃)		44600.0	

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter		Compound Equiv wt X meq/L = mg/			
+-----+		+-----+			
679	*Ca <----- *HCO ₃	2	Ca (HCO ₃) ₂	81.0	1.6 129
	/----->		CaSO ₄	68.1	7.8 531
213	*Mg -----> *SO ₄	8	CaCl ₂	55.5	669.2 37136
	<-----/		Mg (HCO ₃) ₂	73.2	
3012	*Na -----> *Cl	3893	MgSO ₄	60.2	
			MgCl ₂	47.6	212.6 10119
Saturation Values Dist. Water 20 C			NaHCO ₃	84.0	
CaCO ₃	13 mg/L		Na ₂ SO ₄	71.0	
CaSO ₄ * 2H ₂ O	2090 mg/L		NaCl	58.4	3011.7 176003
BaSO ₄	2.4 mg/L				

REMARKS:

A. MILLER / FILE

RED TANK 23 SWD

Petrolite Oilfield Chemicals Group

Respectfully submitted,
STEVE TIGERT