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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

RECEIVED

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 & 330' FEL
Section 34, T23S, R31E

UT. P

5. Lease Designation and Serial No.

NM-19199 43744

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Sand Dunes 34 Federal #3

9. API Well No.

30-015-27240

10. Field and Pool, or Exploratory Area

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

☒ 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 3" poly line into the Calmon #5 SWD located SW/4, NE/4, Section 35, T23S, R31E, Eddy County. The Calmon #5 SWD is an approved disposal well per Administrative Order SWD-516 (Attached).

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

Signed *Bamett P. Smith*

Title Senior Operations Engineer

Date May 31, 1994

(This space for Federal or State office use)

Approved by (ORIG. SGD.) JOE G. LARA
Conditions of approval, if any:

Title PETROLEUM ENGINEER

Date 6/28/94

See attached.

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

May 31, 1994

OPERATOR: Pogo Producing Company Lease No. NM-43744WELL NO. & NAME Sand Dunes 34 Federal #3LOCATION: SE 1/4 SE 1/4, Sec. 34, T. 23 S., R. 31 E., Eddy County, N.M.

The check list below indicates the information needed before your Waste or Salt Water Disposal method can be approved:

<u>Delaware</u>	Name(s) of formation(s) producing water on the lease.
<u>170 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>3" Poly Line</u>	How water is moved to disposal facility.
<u>Pogo Producing Co.</u> <u>Calmon #5 SWD</u> <u>SW/4, NE/4</u> <u>Sec. 35, T23S, R31E</u> <u>Eddy Co., NM</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

Nutro Products Corporation

P.O. Box 21187 Houston, Texas 77226
Phone (713) 675-3421 * Fax (713) 675-7646

WATER ANALYSIS

Date 05/24/94 Nutro Rep TERRY SOLANSKY Code W-1391
Sampling Point State
Company POGO PRODUCING County
Field Lease SAND DUNES "34" Well 3

DISSOLVED SOLIDS

<u>CATIONS</u>	mg/l	me/l
Sodium, Na ⁺ (Calc.)	71,691	3,117
Total Hardness as Ca ⁺⁺	17,120	0
Calcium, Ca ⁺⁺	15,880	794
Magnesium, Mg ⁺⁺	756	63
Barium, Ba ⁺⁺	2	0
Iron (Total) Fe ⁺⁺⁺	80	4

ANIONS

Chlorides, Cl ⁻	141,000	3,972
Sulfate, SO ₄ ⁻	150	3
Carbonate, CO ₃ ⁻	0	0
Bicarbonate, HCO ₃ ⁻	171	3
Sulfide, S ⁻	0	0
Total Dissolved Solids (Calc.)	229,730	

OTHER PROPERTIES

pH [*]	5.600
Specific Gravity, 60°/60 F	1.148
TURBIDITY	>500

Remarks SAMPLE TAKEN ON 05/20/94

SCALING INDICIES

<u>TEMP, F</u>	<u>CA CO₃</u>	<u>CASO₄*2H₂O</u>	<u>CA SO₄</u>	<u>BA SO₄</u>
80	0.2575	-0.6103	-0.9230	-0.0743
120	0.7250	-0.6231	-0.7554	-0.2370
160	1.4367	-0.6468	-0.6064	-0.4553

BUREAU OF LAND MANAGEMENT
CARLSBAD RESOURCE AREA

Disposal of Produced Water From Federal Wells

Conditions of Approval

Approval of the produced water disposal methodology is subject to the following conditions of approval:

1. This agency be notified of any change in your method or location of disposal.
2. Compliance with all provisions of Onshore Oil and Gas Order No. 7.
3. This agency shall be notified of any spill or discharge as required by NTL-3A.
4. This agency reserves the right to modify or rescind approval whenever it determines continued use of the approved method may adversely affect the surface or subsurface environments.
5. All aboveground structures on the lease shall be painted sandstone brown, Federal Std. 595-20318, or 30318, within 90 days if you have not already done so.
6. Any on lease open top storage tanks or pits shall be covered with a wire screen or plastic/nylon netting to prevent entry by birds and other wildlife.
7. This approval does not constitute right-of-way approval for any off lease activities. If water is transported via a pipeline that extends beyond the lease boundary, you need to submit within 30 days an application for right-of-way approval to the Realty Section in this office if you have not already done so.