

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OIL CONS COMMISSION
Drawer DD
Artesia, NM 88210

c/sf

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.
NM-19199

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Calmon #20

9. API Well No.
30-015-27549

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

11. County or Parish, State
Eddy County, NM

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)
 2310' FNL & 1980' FEL, Section 35, T23S, R31E

RECEIVED
MAY 02 '94

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent <input checked="" type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <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 <small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>

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).

APR 15 1994
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14. I hereby certify that the foregoing is true and correct

Signed *[Signature]* Title Senior Operations Engineer Date April 7, 1994

Petroleum Engineer 4/28/94

-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.

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.



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-19199

WELL NO. & NAME Calmon #20

LOCATION: SW 1/4 NE 1/4, Sec. 35, 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>Brushy Canyon</u>	Name(s) of formation(s) producing water on the lease.
<u>41 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>	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 03/18/94 Nutro Rep TERRY SOLANSKY
Sampling Point WELL HEAD
Company POGO PRODUCING
Field Lease CAL-MON

Code W-0750
State TEXAS
County EDDY N.M.
Well 20

DISSOLVED SOLIDS

<u>CATIONS</u>	mg/l	me/l
Sodium, Na ⁺ (Calc.)	77,234	3,358
Total Hardness as Ca ⁺⁺	28,800	0
Calcium, Ca ⁺⁺	18,400	920
Magnesium, Mg ⁺⁺	6,341	528
Barium, Ba ⁺⁺	6	0
Iron (Total) Fe ⁺⁺⁺	60	3

ANIONS

Chlorides, Cl ⁻	170,500	4,803
Sulfate, SO ₄ ⁻	175	4
Carbonate, CO ₃ ⁻	0	0
Bicarbonate, HCO ₃ ⁻	146	2
Sulfide, S ⁻	0	0
Total Dissolved Solids (Calc.)	272,862	

OTHER PROPERTIES

pH [*]	6.400
Specific Gravity, 60°/60 F	1.176
TURBIDITY	56

ANALYSIS SAMPLE TAKEN ON 03/17/94

SCALING INDICIES

<u>TEMP, F</u>	<u>CA CO₃</u>	<u>CASO₄*2H₂O</u>	<u>CA SO₄</u>	<u>BA SO₄</u>
80	1.8978	-0.0011	-0.7507	0.3965
120	2.2704	-0.3987	-0.5921	0.2650
160	3.1355	-0.4179	-0.4386	0.0599