

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

5. Lease Designation and Serial No.
NM-14164

6. If Indian, Allottee or Tribe Name

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)

1980' FNL & 1650' FWL, Section 5, T24S, R35E

7. If Unit or C.A. Agreement Designation

8. Well Name and No.

Antelope 5 Federal #1

9. API Well No.

30-025-32734

10. Field and Pool, or Exploratory Area

Wildcat

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

- ☒ 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 transport into the City Federal #1 SWD located NW/4, SW/4, Section 20, T22S, R36E, Lea County. The City Federal #1 SWD is an approved disposal well operated by Southwest Royalty.

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

Signed

Title Senior Operations Engineer

Date April 5, 1995

(This space for Federal or State office use)

Approved by

(ORIG. SGD.) JOE G. LARA

Title

PETROLEUM ENGINEER

Date

5/23/95

Conditions of approval, if any:

See attached.



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Carlsbad Resource Area Headquarters

P. O. Box 1778

Carlsbad, New Mexico 88220

IN REPLY REFER TO

3162

April 5, 1995

OPERATOR: Pogo Producing Company Lease No. NM-14164

WELL NO. & NAME Antelope 5 Federal #1

LOCATION: SE 1/4 NW 1/4, Sec. 5, T. 24 S., R. 35 E., Eddy County, N.M.
Lea

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>50 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 show- 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>Transport</u> | How water is moved to disposal facility. |
| <u>Southwest Royalty</u> <u>City Federal #1,</u> <u>NW/4, SW/4, Sec. 20</u> <u>T22S, R36E, Lea Co.</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 01/23/95 Nutro Rep TERRY SOLANSKY Code W-1068
Sampling Point State TEXAS
Company POGO PRODUCING County EDDY N.M.
Field Lease ANTELOPE "5" FED. Well 1

DISSOLVED SOLIDS

| <u>CATIONS</u> | mg/l | me/l |
|------------------------------------|--------|-------|
| Sodium, Na ⁺ (Calc.) | 65,044 | 2,828 |
| Total Hardness as Ca ⁺⁺ | 22,640 | 0 |
| Calcium, Ca ⁺⁺ | 21,040 | 1,052 |
| Magnesium, Mg ⁺⁺ | 976 | 81 |
| Barium, Ba ⁺⁺ | 10 | 0 |
| Iron (Total) Fe ⁺⁺⁺ | 45 | 2 |

ANIONS

| | | |
|--|---------|-------|
| Chlorides, Cl ⁻ | 140,000 | 3,944 |
| Sulfate, SO ₄ ⁻ | 675 | 14 |
| Carbonate, CO ₃ ⁻ | 0 | 0 |
| Bicarbonate, HCO ₃ ⁻ | 220 | 4 |
| Sulfide, S ⁻ | 8 | 1 |
| Total Dissolved Solids (Calc.) | 228,018 | |

OTHER PROPERTIES

| | |
|----------------------------|-------|
| pH [*] | 6.800 |
| Specific Gravity, 60°/60 F | 1.152 |
| TURBIDITY | >500 |

Remarks SAMPLE TAKEN ON 01/05/95

SCALING INDICIES

| <u>TEMP, F</u> | <u>CA CO₃</u> | <u>CASO₄*2H₂O</u> | <u>CA SO₄</u> | <u>BA SO₄</u> |
|----------------|--------------------------|---|--------------------------|--------------------------|
| 80 | 1.7561 | 0.1724 | -0.1558 | 1.2758 |
| 120 | 2.2342 | 0.1629 | 0.0252 | 1.1160 |
| 160 | 2.9611 | 0.1408 | 0.1757 | 0.8988 |

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.