| | | | - | NM OIL CONS COMMISSION |
|---|---|---|---|---|
| BUREAU OF LAND MANAGEMENT 5. Lase Examplement and Serial No. SUNDRY NOTICES AND REPORTS ON WELLS 5. Lase Examplement and Serial No. Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. 6. If Hauka Allense or Take Name SUBMIT IN TRIPLICATE 7. If Unit and CA. Agreement Designation Type of Wati 0. D. Bure of Openand To To Trippe Designation 8. Well Name and No. And wati no. 0. D. Note of Openand No. 0. D. Peopo Producting Company 0. D. Antisata, Control 3. And Wati No. 1650* FSL & 330* FEL, Section 34, T23S, R31E 1. Green and Nume Leasure Mode 0. D. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF Action Management Name 0. Advancement Management Name 0. Advancement Description Completed Operation Cherry State All periods of Advancement New Science of Pase Management Name 0. Advancement Leasure Main 0. Advancement Description Cherry State All periods of State and anset and and period state of advance of Pase Management Name 0. Advancement | | | - | Drawer DD FORM'APPROVED Artesia, NMBugeBlou No. 1004-0135 |
| De not use this form for proposals to drill or deegen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals SUBMIT IN TRIPLICATE SUBMIT IN TRIPLICATE Type of Weil Submit IN TRIPLICATE Submit IN TRIPLICATE Type of Weil Submit IN TRIPLICATE Type of Weil Submit IN TRIPLICATE Submit IN TRIPLICATE Type of Weil Submit IN TRIPLICATE Submit IN TRIPLICATE Su | | BUREAU OF LA | ND MANAGEMENT | 5. Lease Designation and Serial No. |
| Type of Weil | Do not use this fo | orm for proposals to drill | or to deepen or reentry to a different r | 6 If Indian Allotten or Tribe Mame |
| Image: MAY 02 '94 Image: Image: <td></td> <td>SUBMIT IN</td> <td>I TRIPLICATE</td> <td>7. If Unit or CA, Agreement Designation</td> | | SUBMIT IN | I TRIPLICATE | 7. If Unit or CA, Agreement Designation |
| Nume of Operator Sand Dunes 34 Federal # POSO Producing Company O. C. D. V.A.M Wilko. Address and Telephone No. 30-015-27268 P. O. Box 10340, Midland, TX 79702-7340 (915)682-6822 IO. Field ad Pool, or Exploratory Area Lossion of Walk (Pools, Sec. T. A. M. or Survey Description) Ingle Wall Sc. Ingle Wall Sc. 1650' FSL & 330' FEL, Section 34, T23S, R31E IO. Comparison of Yalk (Pools, Sec. T. A. M. or Survey Description) Ingle Wall Sc. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION Ingle Wall Sc. Monke of linea Association Association Non-Rescuration Subsequent Report Comparison Require Comparison Non-Rescuration Subsequent Report Comparison (Comparison Comparison Science) Non-Rescuration Non-Rescuration Describe Popolect or Completed Operations (Clearly use all peritem detail, including estimuted date of starting any proposed work. If well a directionally drilled produced as fracting and proceed and peritem details of a direction and period date of starting and period date date of starting and period date of starting | | | MAV O 2 '94 | |
| Togo Producting Company ARTESIA, CVFRCE 30-015-27266 P. O. Box 10340, Midland, TX 79702-7340 (915)682-6822 Io. Field and Poxy Responsiony Arte 1650' FSL & 330' FEL, Section 34, T23S, R31E Io. Employed and Company Arte Inclusion of Wall (Forage, Sec. T. R. M. or Survey Description) 1650' FSL & 330' FEL, Section 34, T23S, R31E Inclusion of Wall (Forage, Sec. T. R. M. or Survey Description) Inclusion of Wall (Forage, Sec. T. R. M. or Survey Description) 1650' FSL & 330' FEL, Section 34, T23S, R31E Inclusion of Wall (Forage, Sec. T. R. M. or Survey Description) Inclusion of Wall (Forage, Sec. T. R. M. or Survey Description) 1650' FSL & 330' FEL, Section 34, T23S, R31E Inclusion of Completed Description on Antesia Survey Su | Name of Operator | | | |
| P. 0. Box 10340, Midland, TX 79702-7340 (915)682-6822 ID-015-C/208 Lexamin of Wall (Roage, Sec. T. R. M. of Survey Description) ID. End aut Pool, of Exploring Area 1650' FSL & 330' FEL, Section 34, T23S, R31E ID. End aut Pool, of Ecolorizor Area 1650' FSL & 330' FEL, Section 34, T23S, R31E ID. End aut Pool, of Ecolorizor Area CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Notice of Inem Asandoinnest Subsequent Report Description Final Abandoinnest Noise Description Describe Proposed or Completed Operation (Charly see all periment details, and yre periment date, including estimated date of starting any proposed werk. If well is directionally drilled, well yregord Pogo respectfully request permission to dispose of off-lease produced water from the above well via 3" poly line into the Calmon #5 SWD is an approved disposal werk. If well is directionally drilled, security of the foregoing is of the fore | | | - | 9. API Well No. |
| Location of Weil (Process, Sec., T. R. M. of Survey Description) Ingle Wells Delaware 1650' FSL & 330' FEL, Section 34, T23S, R31E In Goung or Parish, Same Eddy Country, NM CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Nonce of lateout Abandomment Subsequent Report Program Back Prise Abandomment Notice Abandomment data, including entimed data of saming state of saming state of the formation of the state o | P. O. Box 1 | 10340, Midland, TX | 79702-7340 (915)682-6822 | |
| IESU FSL & 330 FEL, Section 34, 1235, K31E Eddy County, NM CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Abindoment Change of Plans Subsequent Report Abindoment End Abandomment Notice Progong Report Describe Proposed or Completed Operations (Clearly usate all pertinent datas, including estimated date of summers and multiple completion as Will Convertion to Injection Describe Proposed or Completed Operations (Clearly usate all pertinent datas, including estimated date of summers are tongong in the line of the informate and multiple completion and Will Convertion and multiple completions and Will Suppose Water Poggo 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, T235, R31E, Eddy County. The Calmon #5 SWD located SW/4, NE/4, Section 35, T235, R31E, Eddy County. The Calmon #5 SWD located SW/4, NE/4, Section 35, T235, R31E, Eddy County. The Calmon #5 SWD is an approved disposal well per Administrative Order SWD-516 (Attached). Nus tapk for Poderal or State office usation of State office usation and State and | Location of Weil (Footage | e, Sec., T., R., M., or Survey Descri | ption) | |
| TYPE OF SUBMISSION TYPE OF ACTION Nuixe of linear Abandonment Subsequent Report Decompletion Final Abandonment Notice Attering Casing Describe Proposed or Completed Operations (Clearly sate all periment details, and give periment dates, including estimated date of starting any proposed work. If well is directionally drilled, give unburface locations and mainter completion as well at the dates of the starting any proposed work. If well is directionally drilled, give unburface locations and mainter completion as well at the dates of the date of starting any proposed work. If well is directionally drilled, give unburface locations and mainter completion as well at the date of starting any proposed work. If well is directionally drilled, give unburface locations and mainter starts and zones periment dates. Joint at the date of starting any proposed work. If well is directionally drilled, give unburface locations and mainter starts and zones periment dates. Joint at the date of starting any proposed work. If well is directionally drilled, give unburface location and mainter starts and zones periment dates. Joint at the date of starting any proposed work. If well is directionally drilled, give unburface location and mainter starts and zones periment dates. Joint at the date of starting any proposed work. If well is directionally drilled, section 35, 17235, R31E, Eddy County. The Calinon #5 SWD located SM/4, NE/4, Section 35, 17235, R31E, Eddy County. The Calinon #5 SWD is an approved disposal well per Administrative Order SWD-516 (Attached). | 1650' FSL & | 330' FEL, Section | 34, T23S, R31E | - |
| In the Or ACTION In the Abandonment In the Abandonment In the Abandonment Notice Inter Subort Completed Operations (Clearly state all perment details, and pre-permitent data, including estimated date of starting any peroperation of Marce Report and Depretions of Well Completions and measured and true vertical depts for all markers and conceptent on 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). In the poer for form or State office using and constance of the Indiang estimate of state office using the state of the Indiang estimate | CHECK A | APPROPRIATE BOX(s) | O INDICATE NATURE OF NOTICE | , REPORT, OR OTHER DATA |
| Bits Subsequent Report Descompletion Program Casing Repart Pringing Back Non-Routice Fracturing Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent datas, including estimated date of starting any proposed work. If well is directionally drilled, there Report mutual or multiple completion or Write: Completion or Recompletion or Write: Completion or Recompletion 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, T235, R31E, Eddy County. The Calmon #5 SWD is an approved disposal well per Administrative Order SWD-516 (Attached). Incredy cently the toregoing is the subcorder. Take Section Operations Engineer Date April 7, 1994 This space for formal by Adam Salameh Take Recompletion and transpace of the Indiverse of the Indind Stores on the formation of the Indind Stor | TYPE OF S | SUBMISSION | TYPE OF | ACTION |
| Plagging Back Casing Repart Casing Casing Casing Repart Casing Casing Casing Casing Repart Casing Casing Repart Casing Casing Casing Repart Casing C | Notice of | Intent | | Change of Plans |
| □ Final Abundonment Notice □ Caring Repair Altering Casing Other □ Too recording Altering Casing Other □ Too recording Describe Proposed work in Status off Compension Support on Status off Compension Strange in Status of Status o | Subsequer | nt Report | | |
| Inverse centry part the foregoing is phi and corpet: Take | | | Casing Repair | |
| There Broposed 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 depts 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, T235, R31E, Eddy County. The Calmon #5 SWD located SW/4, NE/4, Section 35, T235, R31E, Eddy County. The Calmon #5 SWD is an approved disposal well per Administrative Order SWD-516 (Attached). I hereby certify get the foregoing is <i>pld</i> and/correct Signed Comments and the starting and the starting and period and the starting and period and the starting and period water from the above well via 3" poly line into the Calmon #5 SWD located SW/4, NE/4, Section 35, T235, R31E, Eddy County. The Calmon #5 SWD is an approved disposal well per Administrative Order SWD-516 (Attached). I hereby certify get the foregoing is <i>pld</i> and/correct Signed Comments and the starting and the stare starting and the starting and the starting and the starting and | Final Aba | indonment Notice | Altering Casing | Conversion to Injection |
| I hereby certify that the foregoing is ref and/correct Signed Title Senior Operations Engineer Date Approved by Conditions of spectral of state office use) Approved by Conditions of spectral of state office use) Approved by Conditions of spectral of state office use) Approved by Conditions of spectral of state office use) Approved by Conditions of spectral of state office use) Approved by Conditions of spectral of state office use) Approved by Conditions of spectral of state office use) Approved by Conditions of spectral of state office use IB 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 are followed to the use of the use of the United States are followed to the use of the United States are followed to the use of the United States are followed to the use of the United States are followed to the use of the United States are followed to the use of the United States are followed to the use of the United States are followed to the use of the United States are followed to the use of the United States are followed to the use of the United States are followed to the use of the United States are followed to the use of the United States are followed to the use of the United States are followed to the u | Describe Proposed or Com | pleted Operations (Clearly state all perti | nent details and give pertinent dates including estimated | (Note: Report results of multiple completion on Well |
| I hereby certify that the foregoing is proved and correct Signed | Pogo respec the above w Section 35, | tfully request perm ell via 3" poly lin T23S, R31E, Eddy C | nent details, and give pertinent dates, including estimated d oths for all markers and zones pertinent to this work.)* ission to dispose of off-leas e into the Calmon #5 SWD loca ounty. The Calmon #5 SWD is | (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form) ate of starting any proposed work. If well is directionally drilled, Se produced water from |
| Conditions of approval, of any: -ATTACHED - 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. Section 2001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false. Section 2001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false. | Pogo respec the above w Section 35, | tfully request perm ell via 3" poly lin T23S, R31E, Eddy C | nent details, and give pertinent dates, including estimated d oths for all markers and zones pertinent to this work.)* ission to dispose of off-leas e into the Calmon #5 SWD loca ounty. The Calmon #5 SWD is | (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form) ate of starting any proposed work. If well is directionally drilled, see produced water from ated SW/4, NE/4, an approved disposal |
| 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. Sections of foundations of foundations are foundations of the section of the United States any false. | Pogo respec the above w Section 35, well per Adu well per Adu | tfully request perm rell via 3" poly lin T23S, R31E, Eddy C ministrative Order | nent details, and give pertinent dates, including estimated d oths for all markers and zones pertinent to this work.)* ission to dispose of off-leas e into the Calmon #5 SWD loca ounty. The Calmon #5 SWD is SWD-516 (Attached). | (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form) ate of starting any proposed work. If well is directionally drilled, Se produced water from ated SW/4, NE/4, an approved disposal |
| presentations as to any matter within its jurisdiction. | Pogo respec the above w Section 35, well per Adu l hereby certify the the for Signed | tfully request perm rell via 3" poly lin T23S, R31E, Eddy C ministrative Order egoing is the and correct Control office use) | nent details, and give pertinent dates, including estimated d oths for all markers and zones pertinent to this work.)* ission to dispose of off-leas e into the Calmon #5 SWD loca ounty. The Calmon #5 SWD is SWD-516 (Attached). | (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form) ate of starting any proposed work. If well is directionally drilled, Se produced water from ated SW/4, NE/4, an approved disposal |

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.
- 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 Cariabad Resource Area Headquarters P. O. Box 1778 Cariabad, New Mexico \$8229

April 7, 1994

| CPERATUR: Pogo Produc | ing Company | Lease No. <u>NM- 43744</u> |
|--|--|--|
| WELL NO. & NAME Sanc | Dunes 34 Federal #4 | |
| LOCATION: <u>NE } SE</u> | <u>i</u> , Sec. <u>34</u> , T. <u>23</u> S., R | 31 E., Eddy County, N.M. |
| The check list below i Salt Water Disposal me | ndicates the information neede thod can be approved: | d before your Waste or |
| Brushy Canyon | Name(s) of formation(s) produ | cing water on the lease. |
| 100 BBLS | Amount of water produced from per day. | each formation in barrels |
| Attached | A water analysis of produced in at least the total dissolv concentrations of chlorides a | ed solids, ph, and the |
| 500 BBL F.G. Tank | How water is stored on the le | ase. |
| 3" Poly Line | How water is moved to disposa | l facility. |
| Pogo Producing Co. Cälmon #5 SWD | Operator's name, well name an township and range, of the di disposal facility is an appro operator's name and the name should suffice. | sposal facility. If the ved disposal system, the |

Supervisory Petroleum Engineer Technician

Nutro Products Corporation P.O. Box 21187 Houston, Texas 77225 Phone (713) 675-3421 * Fax (713) 675-7646

WATER ANALYSIS

| Date 04/06/94 Nutro Rep TERRY | | W-0938 | |
|---------------------------------|-----------------|--------|-----------|
| Sampling Point | | | TEXAS |
| Company POGO PRODUCING | | _ | EDDY N.M. |
| Field Lease | SAND DUNES "34" | Well | 4 |
| DISSOLVED SOLIDS | | | |
| CATIONS | mg/1 | | me/1 |
| Sodium, Na ⁺ (Calc.) | 101,039 | | 4,393 |
| Total Hardness as Ca** | 24,800 | | 0 |
| Calcium, Ca ⁺⁺ | 18,000 | | 900 |
| Magnesium, Mg ⁺⁺ | 4,146 | | 346 |
| Barium, Ba⁺⁺ | 11 | | 0 |
| Iron (Total) Fe ^{****} | 74 | | 4 |
| ANIONS | | | |
| Chlorides, COl | 200,000 | | 5,634 |
| Sulfate, SO₄ [∗] | 240 | | 5 |
| Carbonate, CO₃® | 0 | | 0 |
| Bicarbonate, HCO3 ⁻ | 49 | | 1 |
| Sulfide, S ^{⁼*} | 40 | | 3 |
| Total Dissolved Solids (Calc.) | 323,599 | | |
| OTHER PROPERTIES | | | |
| рН* | 6.000 | | |
| Specific Gravity, 60°/60 F | 1.181 | | |
| TURBIDITY | 350 | | |

Remarks SAMPLE TAKEN ON 03/31/94

....

| | S | CALING INDICI | ES | |
|---------|--------------------|---------------|---------|--------|
| TEMP, F | CA CO ₃ | CASO4*2H2O | CA SO4 | BA SO4 |
| 80 | 1.2841 | -0.1193 | -0.5427 | 0.7528 |
| 120 | 1.9392 | -0.1293 | -0.3724 | 0.6454 |
| 160 | 2.9250 | -0.1279 | -0.1983 | 0.4517 |