UNITED STATEN.M. OII CONSTITUTED ST. 2

FORM APPROVED OMB NO. 1004-0136

(July 1992) Expires: February 28, 1995 DEPARTMENT OF THE INTERPOW. Grand Avenue LEASE DESIGNATION AND SERIAL NO. APPLICATION FOR PERMIT TO DRILL OR DEEDEN 88210 6. IF INDIAN, ALLOTTER OR TRIBE NAME 1a. TIPE OF WORK R-111-POTASH 7. UNIT AGREEMENT NAME DRILL XX DEEPEN b. TIPE OF WELL MULTIPLE WELL XX SINGLE ZONE S. FARM OR LEASE NAME WELL NO OTHER SUNDANCE FEDERAL # 33 2. NAME OF OPERATO POGO PRODUCING COMPANY (RICHARD WRIGHT 432-685-8140) 9. AR WELL NO. <u>30-015</u>-33676 P.O. BOX 10340 MIDLAND, TEXAS 79702-7340 (432-685-8100)10. FIELD AND POOL, OR WILDCAT 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) SAND DUNES DELAWARE WEST RECEIVED 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 660' FSL & 660' FEL SECTION 5 T24S-R31E EDDY CO. NM At proposed prod. zone SAME OCT 2 1 2004 SECTION 5 T24S-R31E 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* OCO-AHTESIA 12. COUNTY OR PARISH | 13. STATE Approximately 25 miles East of Carlsbad, New Mexico EDDY CO. NEW MEXICO 15. DISTANCE FROM PROPUSED 16. NO. OF ACRES IN LEASE 17. NO. OF ACRES ASSIGNED LOCATION TO NEAREST PROPERTY OR LEASE LINE, F TO THIS WELL 660' 1200 (Also to nearest drig, unit line, if any) 18. DISTANCE FROM PROPOSED LOCATION® 19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. S400' ROTARY 1320' 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 22. APPROX. DATE WORK WILL START* 3436' GR. WHEN APPROVED 23. PROPOSED CASING AND CEMENTING PROGRAM SIZE OF HOLE GRADE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT 25" Conductor 401 NA ement to surface/Redi-mix WITNESS17½" H-40 13 3/8" 650**'** 4250' 48 800 Sx. circulate to surface 11" 1500 Sx J-55 8 5/8" 32 11 8400' 7 7/8" 1800 Sx N-80 & J-55 4½ 11.6 CARLSBAD CONTROLLED WATER BASIN 1. Drill 25" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix. 2. Drill $17\frac{1}{2}$ " hole to 650'. Run and set 650' of 13 3/8" 48# H-40 ST&C casing. Cement with 800 Sx. of Class "C" cement + 2% CaCl, + 1/4# Flocele/Sx., circulate cement to surface. 3. Drill 11" hole to 4250'. Run and set 4250' of 8 5/8" 32# J-55 ST&C casing. Cement with 1500 Sx. of Class "C" cement + additives, circulate cement to surface. 4. Drill 7 7/8" hole to 8400'. Run and set 8400' of $4\frac{1}{2}$ " casing as follows: 1400' of $4\frac{1}{2}$ ". 11.6# N-80 LT&C, 6000' of $4\frac{1}{2}$ " 11.6# J-55 LT&C, 1000' of $4\frac{1}{2}$ " 11.6# N-80 LT&C casing. Cement in 3 stages with DV Tools at 6200', 3800'±. Cement 1st stage with 550 Sx. of

Class "C" + additives, cement 2nd stage with 750 Sx. of Class "C" cement + additives, cement 3rd stage with 500 Sx. of Class "C" Lite Weight cement + additives, circulate cement to surface.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any 08/15/04

MICATURE AgentAPPROVAL SUBJECT TO GENERAL REQUIREMENTS SIGNED AND SPECIAL STIPULATIONS (This space for Federal or State office use) APPROVATTANCHED PERMIT NO

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. CONDITIONS OF APPROVAL, IF ANY: ACTING

STATE DIRECTOR

1 & OCT 2004

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-March 12,
For drilling and production facilities, submit appropriate NMOCD District Office.
For downstream facilities, submit to Santa F office

Pit or Below-Grade Tank Registration or Closure
Is pit or below-grade tank covered by a "general plan"? Yes No X

| | pelow-grade tank \(\bigcirc \) Closure of a pit or below-grade | tank 🗌 |
|---|---|--|
| Operator: Pogo Producing Company 432-685 Telephone: | 5-8100 e-mail address: Wrightc@pogo | producing.com |
| Address: P. O. Box 10340, Midland, TX 79702 | | |
| Facility or well name: Sundance Federal 33 API#: | | 4 R 31 |
| | NAD: 1927 1983 Surface Ov | |
| Pit | Below-grade tank | |
| Type: Drilling (Production Disposal) | Volume:bbl Type of fluid: | - N 1805 |
| Workover ☐ Emergency ☐ | Construction material: | |
| Lined K Unlined | Double-walled, with leak detection? Yes If not | cexplain why no AUG 2 3 2004 |
| Liner type: Synthetic M Thickness 12 mil Clay □ Volume 16000 bbl | | OCD MATERIA |
| | Less than 50 feet | (20 points) |
| Depth to ground water (vertical distance from bottom of pit to seasonal high | 50 feet or more, but less than 100 feet | (10 points) |
| water elevation of ground water.) | 100 feet or more X | (0 points) () |
| | Yes | (20 points) |
| Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.) | No X | (0 points) 0 |
| Province of the second | Less than 200 feet | (20 points) |
| Distance to surface water: (horizontal distance to all wetlands, playas, | 200 feet or more, but less than 1000 feet | (10 points) |
| irrigation canals, ditches, and perennial and ephemeral watercourses.) | 1000 feet or more X | (0 points) 0 |
| | Ranking Score (Total Points) | .0 |
| If this is a pit closure: (1) attach a diagram of the facility showing the pit's | relationship to other equipment and tanks. (2) Indica | ate disposal location: |
| onsite offsite from If offsite, name of facility | (3) Attach a general description of remedial acti | ion taken including remediation start date ar |
| end date. (4) Groundwater encountered: No 🗌 Yes 🔲 If yes, show depth | below ground surfaceft. and attach sa | ample results. (5) Attach soil sample results |
| and a diagram of sample locations and excavations. | | |
| I hereby certify that the information above is true and complete to the best of been/will be constructed or closed according to NMOCD guidelines. Date: 08/25/04 | a general permit 🔲, or an (attached) alternative O | CD-approved plan . |
| Printed Name/Title Cathy Wright, Sr Eng Tech | Signature Carley UU | iki) |
| Your certification and NMOCD approval of this application/closure does not otherwise endanger public health or the environment. Nor does it relieve the regulations. | relieve the operator of liability should the contents of operator of its responsibility for compliance with any | c pit or tank contaminate ground water or other federal, state, or local laws and/or |
| Approva AUG 2 6 2004 | 200 | |
| Date: | /'40 | |
| Printed Name/Title | Signature | |
| Since the se | . | |
| 1 | | |

State of New Mexico

DISTRICT I 1625 N. FRENCH DR., HOBBS, NM 68240

Energy, Minerals and Natural Resources Department

DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR.

Form C-102 Revised JUNE 10, 2003 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe, New Mexico 87505

| JISTRICT IV 220 S. St. Francis Dr., Santa Fr., NM 87605 | WELL LOCATION AND | ACREAGE DEDICATION PLAT | ☐ AMENDED REPORT |
|--|-------------------|--------------------------|------------------|
| API Number | Pool Code | Pool Name | |
| | 53815 | SAND DUNES DELAWARE-WEST | |
| Property Code | Prop | perty Name | Well Number |

| | 53815 | SAND DUNES DELAWARE-WES | T |
|---------------|----------|-------------------------|-------------|
| Property Code | | Property Name | Well Number |
| | SUND | ANCE FEDERAL | 33 |
| OGRID No. | | Operator Name | Elevation |
| 17891 | POGO PRO | 3436' | |

Surface Location

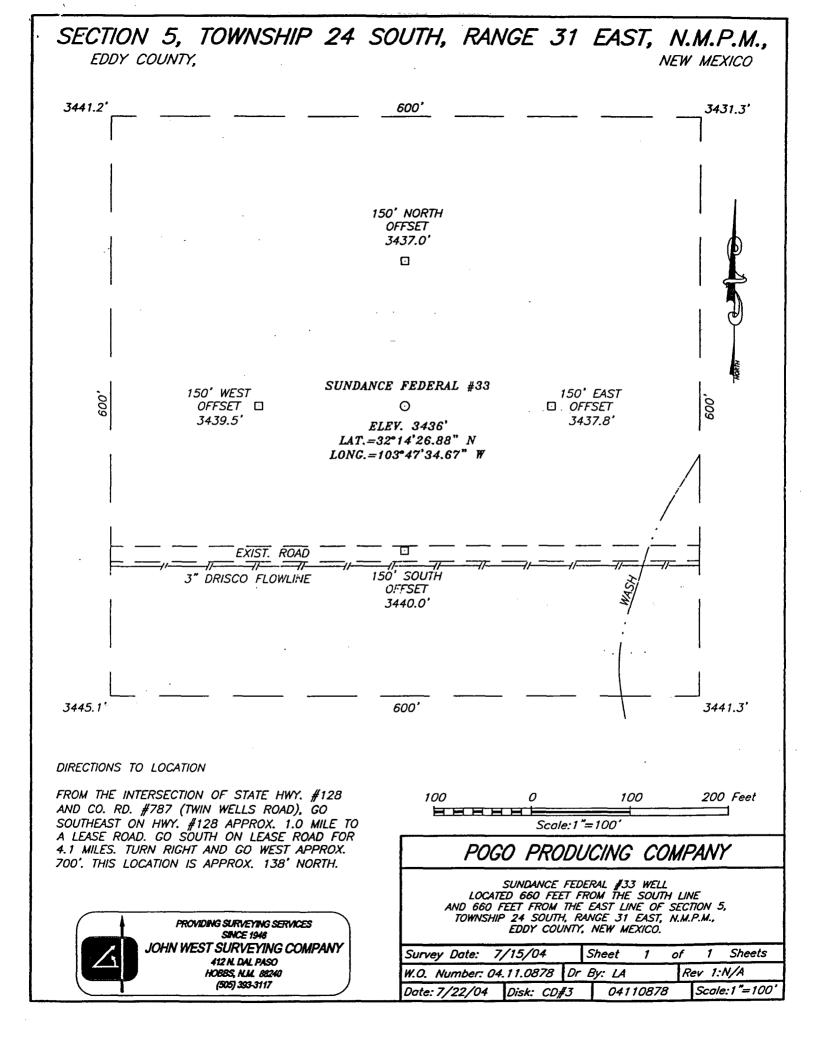
| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| Р | 5 | 24-S | 31-E | | 660' | SOUTH | 660' | EAST | EDDY |

Bottom Hole Location If Different From Surface

| bottom note Education if bifferent From Surface | | | | | | | | | |
|---|---------|-------------|--------------|---------|---------------|------------------|---------------|----------------|----------|
| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| Dedicated Acres | Joint o | or Infill C | onsolidation | Code Or | der No. | | | <u> </u> | <u> </u> |

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

| · · · · · · · · · · · · · · · · · · · | | | | |
|---------------------------------------|--------------------------|-----------------|-----------------|--|
| LOT 1 | LOT 3 | LOT 2 | LOT 1 | OPERATOR CERTIFICATION |
| | | | | I hereby certify the the information contained herein is true and complete to the |
| 1 | | 1 | | best of my knowledge and belief. |
| l I | ĺ | - I | í | lost Ogenica |
| 40.25_AC | 40.26 AC 44 | 0. <u>28 AC</u> | 40.29 AC | Signature |
| | | | | Joe T. Janica Printed Name |
| | | · | • | Agent |
| 1 | | 1 | | 08/15/04 |
| | | | | Date |
| | · | | | SURVEYOR CERTIFICATION |
| | GEODETIC COORD | | • | I hereby certify that the well location shown |
| | NAD 27 NME | | | on this plat was plotted from field notes of actual surveys made by me or under my |
| | Y=451742.1 X=667073.8 | | | supervison and that the same is true and correct to the best of my belief. |
| | LAT.=32*14'26.88 | l l | | JULY 15, 2004 |
| | LONG.=103°47'34. | 67" W | | Date Surveyed LA Signature & Seal of |
| | | | | Professional Surveyor |
| | | | 3441.2' 3431.3' | barn /2 Eclim 7/24/04 |
| | | | 660, | 04.11.0878 |
| | , | | 3445.1' | Certificate No. GARY BIDSON 12841 |



APPLICATION TO DRILL

POGO PRODUCING COMPANY SUNDANCE FEDERAL # 33 UNIT "P" SECTION 5 T24S-R31E EDDY CO. NM

In response to questions asked under Section II of Bulletin NTL-6 the following information on the above well is provided for your consideration.

- 1. Location: 660' FEL & 660' FSL SECTION 5 T24S-R31E EDDY CO, NM
- 2. Elevation above Sea Level: 3436' GR.
- 3. Geologic name of surface formation: Quaternery Aeolian Deposits.
- 4. <u>Drilling tools and associated equipment:</u> Conventional rotary drilling rig using drilling mud as a circulating medium for solids removal from hole.
- 5. Proposed drilling depth: 8400'
- 6. Estimated tops of geological markers:

| Rustler Anhydrite | 675 ' | Cherry Canyon | 5200' |
|-------------------|--------------|-----------------------|-------|
| Basal Anhydrite | 4055 | Brushy Canyon | 6440' |
| Delaware Lime | 4280' | Bone Spring | 8140' |
| Bell Canyon | 4315' | Upper Bone Spring Sd. | 8200' |

7. Possible mineral bearing formations:

Brushy Canyon Oil
Bone Spring Oil

8. Casing program:

| _ | Hole size | Interval | OD of casing | Weight | Thread | Collar | Grade | |
|---|-----------|----------|--------------------|--------|--------|--------|---------------|--|
| | 25'' | 0-40* | 20" | NA | NA | NA | Conductor | |
| | 175" | 0-650' | 13 3/8" | 48# | 8-R | ST&C | H-40 | |
| | 11" | 0-4250' | 8 5/8" | 32# | 8-R | ST&C | J-55 | |
| | 7 7/8" | 0-8400* | '41 ₂ " | 11.6# | 8-R | LT&C | J−55 'N−80 | |

APPLICATION TO DRILL

POGO PRODUCING COMPANY SUNDANCE FEDERAL # 33 UNIT "P" SECTION 5 T24S-R31E EDDY CO. NM

9. CEMENTING & CASING SETTING DEPTHS:

| 20" | Conductor | Set 40' of 20" conductor and cement to surface with Redi-mix. |
|---------|--------------|--|
| 13 3/8" | Surface | Set 650' of 13 3/8" 48# H-40 ST&C casing. Cement with 800 Sx. of Class "C" cement + 2% CaCl, + $\frac{1}{2}$ # Flocele/Sx. circulate cement to surface. |
| 8 5/8" | Intermediate | Set 4250 ' of 8 $5/8$ " $32\#$ J-55 ST&C casing. Cement with 1500 Sx. of Class "C" cement + additives, circulate cement to surface. |
| 4½" | Production | Set 8400' of 4½" 11.6# casing as follows: 1400' of 4½" 11.6# N-80 LT&C, 6000' of 4½" 11.6# J-55 LT&C, 1000' of 4½" 11.6# N-80 LT&C. Cement in 3 stages,DV Tools at 6200'±, & 3800'±. Cement 1st stage with 550 Sx. of Class "C" + additives, Cement 2nd stage with 750 Sx. of Class "C" cement + additives, Cement 3rd stage with 500 Sx. of Class "C" Light circulate to surface. |

-10.PRESSURE CONTROL EQUIPMENT:

Exhibit "E" shows a 2000 PSI working pressure B.O.P. consisting of a stripper head instead of an annular preventor, blind rams, and pipe rams. This B.O.P. stack is being used because of substructure height limitations of the drilling rig being used to drill this well. Pressures encountered while drilling are not expected to exceed 1700 PSI at total depth, Pogo requests permission to 3rd party test of the B.O.P. after setting the intermediate casing at 4250'. The B.O.P. will be tested according to API specifications. Exhibit "E-1" shows a manually operated choke manifold as no remote B.O.P. equipment will be necessary.

11. PROPOSED MUD CIRCULATING SYSTEM:

| DEPTH | MUD WT. | VISC. | FLUID LOSS | TYPE MUD |
|------------|-----------|-------|------------|---|
| 40-650' | 8.4-8.7 | 29-32 | NC | Fresh water spud mud use paper to control seepage. |
| 650-4250' | 10.0-10.2 | 29-38 | NС | Brine water use paper to control seepage and high viscosity sweeps to clean hole. |
| 4250-8400' | 8.4-8.7 | 29-40 | NC* | Fresh water mud use high viscosity sweeps to clean hole. |

^{*} Water loss may be required in order to run open hole logs, DST's and casing, if required go to a Polymer mud system.

Sufficient mud materials to maintain mud properties, lost circulation, increased weight requirements, will be kept at the well site at all times. In order to run logs, casing, and DST's the viscosity and water loss may have to be altered. These mud materials will be on location.

APPLICATION TO DRILL

POGO PRODUCING COMPANY SUNDANCE FEDERAL # 33 UNIT "P" SECTION 5 T24S-R31E EDDY CO. NM

12. LOGGING, CORING, AND TESTING PROGRAM:

- A. Open hole logs: If two runs are necessary: run dual laterolog, SNP, LDT, Gamma Ray, Caliper from 4250' to 650', Gamma Ray-Neutron from 650' to surface. Run #2 Run dual Induction, SNP, LDT, Gamma Ray, Caliper from TD back to 8 5/8" casing shoe.
- B. No cores or DST's are planned at this time, a mud logger may be placed on hole at 4250' and remain on hole to TD.

13. POTENTIAL HAZARDS:

No abnormal pressures or temperatures are expected. There is no known presence of $\rm H^2S$ in this area. If $\rm H^2S$ is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 4250 PSI, and Estimated BHT 165°.

14. ANTICIPATED STARTING DATE AND DURATION OF OPERATION:

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operation and drilling is expected to take $\frac{28}{2}$ days. If production casing is run then an additional $\frac{30}{2}$ days will be needed to complete well and construct surface facilities and/or lay flowlines in order to place well on production.

15. OTHER FACETS OF OPERATIONS:

After running casing, cased hole Gamma Ray, Neutron Collar logs will be run from TD back to all possible productive zones. The <u>Delaware</u> formation will be perforated and stimulated in order to establish production. The well will be swab tested and potentialed as an oil well.

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

- 1. All Company and Contract personnel admitted on location must be trained by a qualified H₂S safety instructor to the following:
 - A. Characteristics of H₂S
 - B. Physical effects and hazzards
 - C. Proper use of safety equipment and life support systems.
 - D. Principle and operation of H₂S detectors, warning system and briefing areas.
 - E. Evacuation procedure, routes and first aid.
 - F. Proper use of 30 minute pressure demand air pack.
- 2. H_2S Detection and Alarm Systems
 - A. H₂S detectors and audio alarm system to be located at bell nipple, end of blooie line (mud pit) and on derrick floor or doghouse.
- 3. Windsock and/or wind streamers
 - A. Windsock at mudpit area should be high enough to be visible.
 - B. Windsock at briefing area should be high enough to be visible.
 - C. There should be a windsock at entrance to location.
- 4. Condition Flags and Signs
 - A. Warning sign on access road to location.
 - B. Flags to be displayed on sign at entrance to location. Green flag, normal safe condition. Yellow flag indicates potential pressure and danger. Red flag, danger, H2S present in dangerous concentration. Only emergency personnel admitted to location.
- 5. Well control equipment
 - A. See exhibit "E" & "E-1"
- 6. Communication
 - A. While working under masks chalkboards will be used for communication.
 - B. Hand signals will be used where chalk board is inappropriate.
 - C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephoned will be available at most drilling foreman's trailer or living quarters.
- 7. Drillstem Testing
 - A. Exhausts will be watered.
 - B. Flare line will be equipped with an electric ignitor or a propane pilot light in case gas reaches the surface.
 - C. If the location is near to a dwelling a closed DST will be performed.

- 8. Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubular goods and other mechanical equipment.
- 9. If $\rm H_2S$ is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas seperator will be brought into service along with $\rm H_2S$ scavengers if necessary.

SURFACE USE PLAN

POGO PRODUCING COMPANY SUNDANCE FEDERAL # 33 UNIT "P" SECTION 5 T24S-R31E EDDY CO. NM

4. If on completion this well is a producer the operator will lay pipelines and construct powerlines along existing road R-O-W's or other existing R-O-W's. Possible routes of pipelines, flowlines and powerlines are shown on Exhibit "C" & "F".

5. LOCATION AND TYPE OF WATER SUPPLY:

Water will be purchased locally from a commercial source and trucked over the access roads or piped to location in flexible lines laid on top of the ground.

6. SOURCE OF CONSTRUCTION MATERIAL:

If possible construction material will be obtained from the excavation of drill site, if additional material is needed it will be obtained from a local source and transported over the access roads as shown on Exhibit "C".

7. METHODS OF HANDLING WASTE MATERIAL:

- A. Drill cuttings will be disposed of in the reserve pits.
- B. All trash, junk and other waste material will be contained in trash cages or trash bins to prevent scattering. When the job is completed all contents will be removed and disposed of in a approved sanitary land fill.
- C. Salts remaining after completion of well will be picked up by the supplier, including broken sacks.
- D. Waste water from living quaters will be drained into holes with a minium of 10'. These holes will be covered during drilling and will be back filled when the well is completed. A Porto-John will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- E. Remaining drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry enough to be broken out for furthed drying. If the drilling fluids do not evaporate in a reasonable time they will be hauled off by transports to a state approve disposal site. Later pips will be broken out to speed drying. Water produced during completion will be put in reserve pits. Oil and condensate produced will be put in storage tanks and sold.

8. ANCILLARY FACILITIES:

A. No camps or air strips will be constructed on location.

SURFACE USE PLAN

POGO PRODUCING COMPANY SUNDANCE FEDERAL # 33 UNIT "P" SECTION 5 T24S-R31E EDDY CO. NM

9. WELL SITE LAYOUT:

- A. Exhibit "D" shows the proposed well site layout.
- B. This Exhibit shows the location of reserve pit, sump pits, and living facilities.
- C. Mud pits in the active circulating system will be steel pits and the reserve pits will be unlined unless subsurface conditions encontered during pit construction indicate that a plastic liner is required to contain lateral migration.
- D. If needed the reserve pits will be lined with polyethelene. The pit liner will be no less than 6 mils thick and the liner will be extended at least 3 feet over the top of the dikes and secured in place to keep edge of liner in place.
- E. The reserve pit will be fenced on three sides and fenced with four strands of barbed wire during drilling and completionphases. The 4th side will be fenced after drilling operations are complete and the drilling rig has moved out. If the well is a producer the mud pits will remain fenced in until the mud has dried up enough to break out the pits and reclaimed according to BLM requirements.

10. PLANS FOR RESTORATION OF SURFACE:

Rehabilitation of the location and reserve pits will be allowed to dry properly, fluids may be moved and disposed of in accordance with article 7-E as previously noted. The pit area will then be leveled and contoured to conform to the original and surrounding area. Drainage systems, if any will be reshaped to the original configuration with provisions made to alleviate furture erosion. In case of the well completed as a producer the drilling pad will be necessary to construct production facilities. After the area has been shaped and contoured top soil from the spoil pile will be placed over the disturbed area to the extent possible so that revegetation procedures can be accomplished to comply with the BLM specifications.

If the well is a dry hole the pad and road area will be contoured to match the existing terrain. Top soil will be spread to the extent possible and revegetation will be carried out according to the BLM specifications.

Should the well be a producer the previously noted procedures will apply to those areas which are not required for production facilities.

SURFACE USE PLAN

POGO PRODUCING COMPANY SUNDANCE FEDERAL # 33 UNIT "P" SECTION 5 T24S-R31E EDDY CO. NM

11. OTHER INFORMATION:

- A. Topography consists of West-sloping plains with low rises with scattered small playas, Coppice dunes with low shallow blowouts. Loose sands and fine gravel. Vegetation consists of scattered Mesquite, Sandsage, Yucca, Shinnery oak, mixed native grasses, and Snakeweed.
- B. The surface is owned by The U.S. Department of Interior and is administered by The Bureau of Land Management. The surface is used for the grazing of livestock and the production of Oil & Gas.
- C. An archaeological survey has been done and is on file in the Carlsbad Field Office of The Bureau of Land Management.
- D. There are no dwellings in the near vicinity of this location.

12. OPERATIOR'S REPRESENTIVES:

Before Construction:

TIERRA EXPLORATION, INC. P.O. BOX 2188
HOBBS, NEW MEXICO 88241
OFFICE Ph. 505-391-8503
JOE T. JANICA

During and after Construction:

POGO PRODUCING COMPANY
P.O. BOX 10340
MIDLAND, TEXAS 79702-7340
RICHARD WRIGHT
OFFICE Ph. 432-685-8140

13. CERTIFICATION: I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and the access roads, and that I am familiar with the conditions which currently exist, that the statements made in this plan are to the best of my knowledge are true and correct, and that the work associated with the operations proposed herein will be performed by POGO PRODUCING COMPANY it's contractors/subcontractors is in confirmity with this plan and the terms and conditions under which it is approved. This statement is subject to the provision of U.S.C. 1001 for the filing of a false report.

NAME

Joe T. Janica

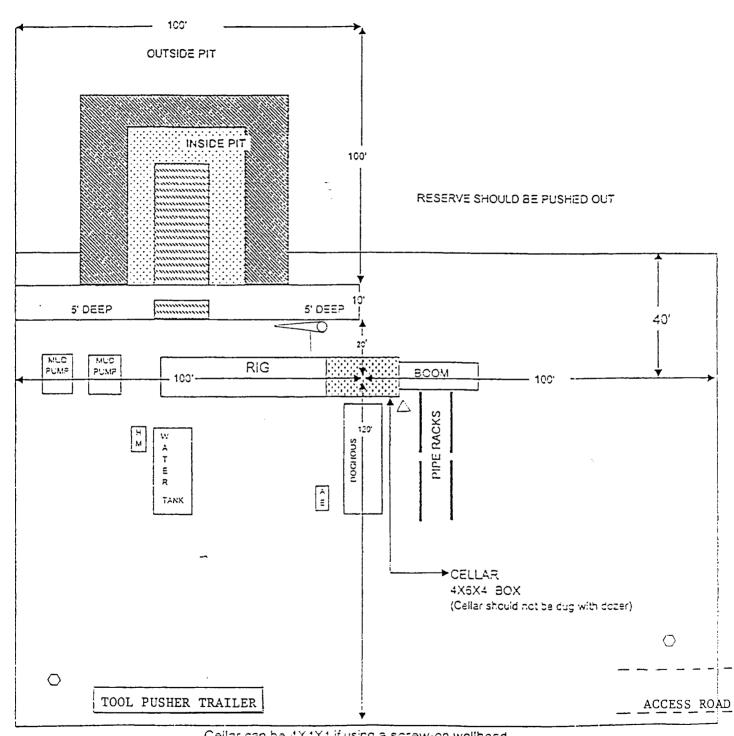
DATE

08/15/04

TITLE

Agent

LOCATION SPECIFICATIONS AND RIG LAYOUT FOR EARTH PITS



Ceilar can be 4X4X4 if using a screw-on wellhead Working Pits dug 5' below ground level

Location Specs

Wind Direction Indicators (wind sock or streamers)

△ H2S Monitors (alarms at bell nipple and shale shaker)

- Briefing Areas
- O Remote BOP Closing Unit
- Sign and Condition Flags

EXHIBIT "D" RIG LAY OUT PLAT

POGO PRODUCING COMPANY SUNDANCE FEDERAL # 33 UNIT "P" SECTION 5 T24S-R31E EDDY CO. NM

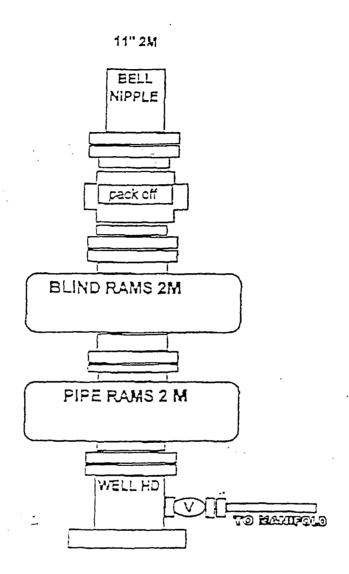


EXHIBIT "E"
SKETCH OF B.O.P. TO BE USED ON

POGO PRODUCING COMPANY SUNDANCE FEDERAL # 33 UNIT P" SECTION 5 T24S-R31E EDDY CO. NM

3000 PSI WP

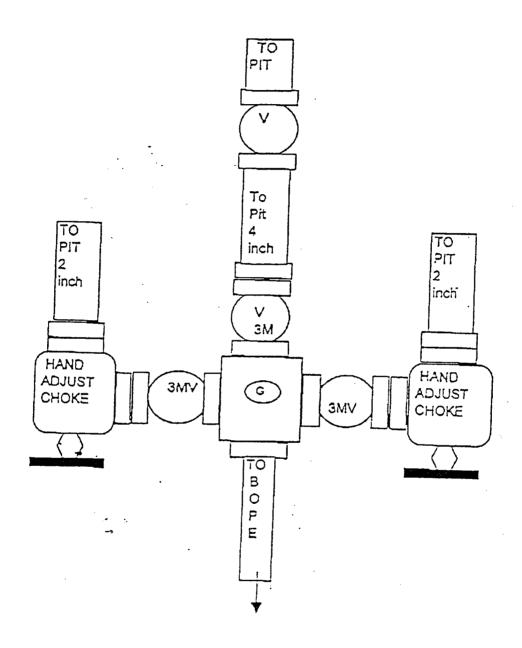


EXHIBIT "E-1"
CHOKE MANIFOLD & CLOSING UNIT

POGO PRODUCING COMPANY SUNDANCE FEDERAL # 33 UNIT "P" SECTION 5 T24S-R31E EDDY CO. NM