| Form 3160-3 | N N | I.M OPER. OGI | Y NO | 7327 | LICATE | • Form | APPROVED |
|--|--|---|-------------------------------------|---|-------------------------------------|--|---------------------------------|
| (July 1992) - 55 | • | NPI POOL COD | | 38D | ons on }) | OMB NO |). 1004-0136 bruary 28, 1995 |
| | DEPARTM | FNT | | s lor | | 5. LEASE DEBIGNAT | - |
| | BUREAU | OF | | 273 | | NM-4281 | |
| | ICATION FOF | | 32.0 | 15-3316 | 22 | 6. IF INDIAN, ALLO: | TEE OR TRIBE NA |
| IA. TYPE OF WORK | JOANON I ON | | | | | | |
| | RILL 🖾 | DEEPEN | | | | 7. UNIT AGEEEMEN | r name |
| b. TYPE OF WELL OIL WELL | CAS | | 81NG1 ZONE | | | 8. FARM OR LEASE NAME | WELL NO. |
| 2. NAME OF OPERATOR | | · | | | | Federal "31 | " Well No. |
| Pogo Producin | | | (Richar | d Wright:) | | 9. API WELL NO. | |
| 3. ADDRESS AND TELEPHONE NO. P.O. Box 1034 | | exas 79702 | 915-682 | -6822 | | 10 TOLD AND POOL | VET CAL |
| 4. LOCATION OF WELL (B | | | | | | West Red Ta | n k Delawar |
| At surface 3301 | FNL & 660' FI | EL of Sec.31 | | R32E | | 11. SEC., T., E., M., C AND SURVEY OR | DR BLE. |
| At proposed prod. zon | ne | Same | (| Unit H | | | |
| 14. DISTANCE IN MILES | AND DIRECTION FROM | | ST OFFICE | | | Sec. 31 T21S | |
| Approximately | | | | xico | | Lea | NM NM |
| 15. DISTANCE FROM PROP LOCATION TO NEARES | USED* | | | F ACRES IN LICASE | | F ACRES ASSIGNED | ł |
| PROPERTY OR LEASE 1 (Also to nearest dr); | LINE, FT. | 330' | | 320 | | 40 | |
| 15. DISTANCE FROM PROF TO NUMBEST WELL, D | POSED LOCATION* DRILLING, COMPLETED, | 10001 | 19. гного | | - | AT OR CABLE TOOLS | |
| OR APPLIED FOR. ON TH 21. ELEVATIONS (Show wh | | 1320' | 8 | 800' | Rot | ATY 22. APPROL DATE | WORK WILL STAR |
| | | | Ground | Level | | As soon as | _ |
| 23. | | PROPOSED CAS | ING AND CH | MENTING PROG | RAM | R-111-P Patas | |
| SIZE OF HOLE | GRADE SIZE OF CASING | WEIGHT PER F | FOOT | SETTING DEPTH | + | QUANTITY OF CEN | |
| 17%" | J-55 13 3, | | 8 | 50' | 700 Sx | | to surfac |
| 121/211 | J-55 8 5/8 | | | 00' | -1400 s | | to surfac |
| 7 7/8" | J-55,N-80 51 | 2" 17 & 15.5 | 0 08 | 00' | 1300 S | x Tie back | E0 4300 ± |
| 2. Drill 12½" 32# middle | x. Light tail | in with 2005 '. Run and se top 1000' 32# | Sx. Clas et 4500' # casing | s "C". Cir 8 5/8" J- . Cement w | culate ce 55 ST&C c ith 1200 | ment to surf asing, botto | ace. m 2300' |
| Class "H" t 200' into 8 4. After setti | le 5000' 15.5# tail in with 7 8 5/8" intermo | # J-55 LT&C, 700 Sx. Class ediate casing n casing, pay | top 100 s "C". B g. zone w | 0' 17# J-5! ring cement ill be perf | 5 LT&C. C t back to forated a | ement with 6 at least 43 nd stimulated | 00 Sx. 00' |
| IN ABOVE SPACE DESCRIBE deepen directionally, give pertin | E PROPOSED PROGRAM: | Surfac If proposal is to deepen, | e Use a give data on p | nd Operatio | ons Plan. ne and proposed r | new productive zone. If | proposal is to drill |
| signed | | CO TIT | Agen | t | | 09/0 | |
| (This space for Feder | al or State office use) | | | | | APPROVAL SUI | |
| PERMIT NO. | / | | APP6 | OVAL DATE | | GENERAL REQU | |
| | | | | 4 | | | ATIONIO |
| Application approval does no CONDITIONS OF APPROVAL | | applicant holds legal or eq | puitable title to t | ance rights in the subje | ct lease which wou | ad entitle by Applicating of a construction of the construction of | LATIONS th |

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.



| Form 3160-3 (November 1983) (formerly 9-331C) | | OPERATOR' TED STATES T OF THE INTE | Oth st (Oth st reverse | ructions on | E• Form approved. Budget Bureau No. 1004-0136 Expires August 31, 1985 |
|---|---------------------------------|---|---------------------------------------|--|---|
| | | F LAND MANAGEME | · · · • • · • | | 5. LEASE DESIGNATION AND BEBIAL NO. NM-42814 |
| APPLICATIO | ON FOR PERMIT | TO DRILL, DEER | PEN, OR PLJG | BACK | 6. IF INDIAN, ALLOTTEE OF TRIBE NAME |
| 1a. TYPE OF WORK | RILL 🗵 | DEEPEN 🗌 | PLUG BA | · ···································· | 7. UNIT AGREEMENT NAME |
| OIL WELL X | GAS WELL OTHER | | SINGLE MULT ZONE ZONE | IPLE | 8. FARM OR LEASE NAME |
| 2. NAME OF OPERATOR | | ······································ | | | Federal 31 |
| POGO 3. ADDRESS OF OPERATO | Producing Company | | | | 9. WELL NO. |
| P.0. | Box 10340, Midland, | Texas 79702 | | | 10. FIELD AND POOL, OR WILDCAT |
| AL SULLACE | (Report location clearly and | | | | Undesignated Lost Tank Delawar |
| 'Ut At proposed prod. z | FNL & 660' FEL of S one Same | ec. 31, 1-215, R-32 | /L | | 11. SEC., T., B., M., OB BLK. AND SURVEY OB AREA |
| 14. DISTANCE IN MILES | AND DIRECTION FROM NEA | REST TOWN OR POST OFFIC | · · · · · · · · · · · · · · · · · · · | | Section 31, T-21S, R-32E 12. COUNTY OF PARISE 13. STATE |
| | iles East of Carlsba | | * | | Lea New Mexic |
| 13. DISTANCE FROM PRO LOCATION TO NEARE PROPERTY OR LEASE | PUSED* | | 0. OF ACRES IN LEASE | | F ACEES ASSIGNED HIS WELL 40 |
| 18. DISTANCE FROM PEC | DRILLING, COMPLETED. | 1320 | RUPOSED DEPTH 8700' | 20. ROTAE | ROTARY |
| | hether DF, RT, GR, etc.) | | | | 22. APPROX. DATE WORK WILL START* |
| 3708.2' (3705. | 0) Ground Le | evel darb | and Dandrada (Ma | itor Baoin | Upon Approval of Appl. |
| 23. | | PROPOSED CASING ANI | CEMENTING PROGRA | м | 14, 17, 1, 1, 1, 1, 4×01g |
| SIZE OF HOLE | BIZE OF CABING | WEIGHT PER FOOT | SETTING DEPTH | 1 | QUANTITT OF CEMENT |
| 17 <u>1</u> " | 13 3/8" | (54.4#) 5H.54 | | - | Sufficient to Circulate |
| <u> </u> | <u> </u> | 32# 15.5# & 17# | 4500 8700 | -] | Sufficient to Circulate 1200 sx - SEE ST: PS. |
| | After settir and stimulat | ng production casin ted as necessary. | | l e perfora | ited of Land Marine |
| | See attached | for: Supplementa BOP Sketch | al Drilling Data | | JUL 1 3 1993 |
| | | | | 1.5 | CHST. 6 N.M. |
| | A () 2) A1 | Santan Debésat 19 Santa Pérjukannan Salis Selaulaitan Mathal |)o and | | New Mer |
| | drill or deepen directional | | | | tive sone and proposed new productive and true vertical depths. Give blowout |
| BIGNED AULU | Line Mut | | Agent | | June 25, 1993 |
| (This space for Feder | ral or State office use) | J | | | |
| PERMIT NO. | | | PPROVAL DATE | | |
| APPROVED BY KO CONDITIONS OF APPROV | AL, IF ANE: | TITLE AC | | Arec | 107DATE 8-10-93 |

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*See Instructions On Reverse Side

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.

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Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

DISTRICT I

State of New Mexic.

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

-

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

P.O. Box 1980, Hobbs, NM 38240

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

| Operator | | | Lease | | • • | Well No. |
|--------------------------------------|---|---|--------------------------------|---|----------------------|--|
| = | POGO PRODUC | CING CO. | | FEDERAL 3 |) | 3 |
| Unit Letter | Section | Township | Range | | | County |
| A | 31 | 21 SOUTH | | 32_EAST | NMPM | LEA |
| Actual Footage Loc | | | | | | ELOT |
| | t from the NO | RTH line and | 660 | | leet from | the EAST line P - Dedicated Acreage: |
| Ground Level Elev 3708.2 | · Producing Fo | | POOLS IS | NETED LOF TA | Die D | Acres |
| 1. Outline the a | | the subject well by colored | pencil or hac | hure marks on the p | lat beio₩ | ` |
| 2. If more than | one lease is dedica | ated to the well, outline eac | ch and identify | y the ownership there | of (both | as to working interest and royalty). |
| | one lease of differ force-pooling, etc.? | | to the well, h | ave the interest of a | ll owners | s been consolidated by communitization, |
| Yes | No No | If answer is "yes" type | of consolidat | ion | | |
| If answer is "no this form necess | | nd tract descriptions which | have actually | been consolidated. | (Use reve | erse side of |
| No allowable w | rill be assigned to | o the well unit all intere rd unit, eliminating such | sts have bee: interest, has | n consolidated (by been approved by t | commur he Divisi | nitization, unitization, forced-pooling, ion. |
| | | | | | | OPERATOR CERTIFICATION |
| | 1 | | | 3710.2' 51 / My 37 | 16.91 | I hereby certify the the information |
| | i | | | ₿ 1698.3 16 | 60' > | contained herein is true and complete to the best of my knowledge and beilef. |
| | | | | 1 2 | | Mul 1:1 C. Titten |
| | | | | 3702.3 | | Signature |
| | 1 | | | | | Manges Mice. R. Feline , Jie |
| | 1 | | | İ | | Printed Name |
| | | | | + | | ITGENT Position |
| | i I | | | 1 | | Poses Producina Confrag |
| | 1 | | | | | POBO Producing Couran |
| | | | | | | July 20. 1993 |
| | | | | 1 | | Date |
| | 1 | | | | | |
| | ł | | | 1 | | SURVEYOR CERTIFICATION |
| | | | | + | | I hereby certify that the well location shown |
| | | | | 1 | | on this plat was plotted from field notes of |
| | | | | | | actual surveys made by me or under my supervison and that the same is true and |
| | 1 | | | ł | | correct to the best of my knowledge and |
| | 1 | | | | | belief. |
| | l. | | | 1 41 | | Date Surveyed |
| | | | | | | MAY 17, 1993 Signature & Seal of |
| | + | | | + | | Professional Struggo |
| | İ | | | | | GARY L. JOANS |
| | 1 | | |] | | NEW METIC |
| | | | | | | 1 Tool |
| | 1 | | | 1 | 7 | Mal Altera LIII |
| | | | | | | 4) REAMY VOINED |
| | ł | | | 1 | | Certifitath to JOHNW WEST 576 |
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| 0 330 660 | 990 1320 165 | 0 1980 2310 2640 | 2000 1500 | | 0 | 93-11-0849 |



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| | | | | |
| <u>SI</u> | JPPLEMENTAL I | DRILLING DAT | 7 | |
| | POGO PRODUCII FEDERAL "31" | NG COMPANY WELL NO. 3 | | |
| 1. SURFACE FORMATION: | Quaternary. | | | |
| 2. ESTIMATED TOPS OF GEOL | OGIC MARKERS: | | | |
| | Rustler Anhydrite Delaware Lime Cherry Canyon Brusny Canyon | 800' 4600' 5600' 7300' | | |
| 3. ANTICIPATED POSSIBLE HY | DRCCARBON BEARI | NG ZONE: | | |
| | Delaware | Oil | | |
| 4. PROPOSED CASING AND C | EMENTING PROGRA | M | | |
| <u>CASING SIZE</u> 13 3/8" 8 5/8" " | SETTING DEPTH FROM TO 0 850' 0 1000' 1000' 2200' 2200' 4500' | <u>WEIGHT</u> 54.5# 32# 24# 32# | <u>GRADE</u> J-55 J-55 J-55 J-55 | <u>JOINT</u> STC STC STC STC |
| 5 1/2" " | 0 1000' 1000' 6000' 6000' 85'00' | 17# 15.5# 17# | J-55 J-55 N-80 | LTC LTC LTC |
| MINIMUM DESIGN FAC | TORS: Collapse_1. | <u>125_Burst_1,1_</u> Ten | sion <u>1.7</u> | |
| 13 3/8" casing is to be se | t at approvimately 850 | in 17 10" hole Casi | | |

13 3/8" casing is to be set at approximately 850' in 17-1/2" hole. Casing to be cemented with 500 sacks of Light cement tailed in with 200 sacks of Class "C". Cement to circulate.

8 5/8" casing is to be set at approximately 4500' in 11" hole. Casing is to be cemented with 1200 sacks of Light cement tailed in with 200 sacks of Class "C". Cement to circulate.

5 1/2" casing is to be set at 8800' in 7 7/8" hole. Casing is to be cemented with 600 sacks of Class "H" cement tailed in with 700 sx Class "C". Cement to the back to 3 5/8" casing.

5. PRESSURE CONTROL EQUIPMENT:



Blowout prevention equipment, while drilling the **124** hole, will be either a 3000 psi working pressure double ram type preventer or a 3000 psi working pressure annuar type preventer.



6. CIRCULATING MEDIUM:

| Surface to 850 feet: | Fresh water spud mud. Viscosity 30 to 3 hole cleaning. | 6 as required for |
|--------------------------------|--|---|
| <u>850 feet to 4500 feet</u> : | Brine conditioned as necessary for contro 10.0. PH 9 to 10. Viscosity 32 to 36. | ol of viscosity. Weight 9.8 to |
| <u>4500 feet to T.D.</u> : | Water based drilling fluid conditioned as n of weight, viscosity, ph and water-loss. W 38 - 45, ph 9-10. Filtrate while drilling pay | ecessary for control eight 9 to 10. Visocity zone 6-15. 8.5 ppg |

7. AUXILIARY EQUIPMENT:

A mudlogging trailer will be used while drilling below Intermediate casing.

8. TESTING, LOGGING, AND CORING PROGRAMS:

Drill Stem tests will be made when well data indicate a test is warranted.

It is planned that electric logs will include GR-CNL- Density logs ans GR-DLL logs.

No coring is planned.

9. ABNORMAL PRESSURES, TEMPERTURES, OR HYDROGEN SULFIFE GAS:

None anticipated. Expected bottom hole pressure is approximately 3700 psi. Expected bottom hole temperture is approximately 130 degrees Fahr

10. ANTICIPATED STARTING DATE:

It is planned that operations will commence upon approval of this application, with drilling and completion operations lasting about 30 days.



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