

Form 3160-3
(December 1990)

UNITED STATES
DEPARTMENT OF
BUREAU OF LAND MANAGEMENT

MISSION

CO 88240 FORM APPROVED
Budget Bureau No. 1004-0136
Expires: December 31, 1991

SUBMIT IN TRIPLICATE

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

| | | | | | |
|---|--|---|----------------------------------|---|--|
| 1a. Type of Work DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> | | 1b. Type of Well OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> | | SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/> | |
| 2. Name of Operator TEXACO EXPLORATION & PRODUCTION INC. | | | | | |
| 3. Address and Telephone No. P.O. Box 3109, Midland Texas 79702 688-4606 | | | | | |
| 4. Location of Well (Report location clearly and in accordance with any State requirements.) At Surface Unit Letter O : 330 Feet From The SOUTH Line and 2310 Feet From The EAST Line At proposed prod. zone SAME | | | | | |
| 14. Distance in Miles and Direction from Nearest Town or Post Office* 5 MILES NE OF JAL, NM | | | | | |
| 15. Distance From Proposed* Location to Nearest Property or Lease Line, Ft. (also to nearest drlg. unit line, if any) 330' | | | 16. No. of Acres in Lease 400 | | |
| 18. Distance From Proposed Location* to Nearest Well, Drilling, Completed or Applied For, On This Lease, Ft. 739' | | | 19. Proposed Depth 7100' | | |
| 21. Elevations (Show whether DF, RT, GR, etc.) GR-3177 | | | | | |
| 22. Approx. Date Work Will Start* 12/15/95 | | | | | |

| 23. PROPOSED CASING AND CEMENT PROGRAM | | | | |
|--|-----------------------|-----------------|---------------|------------------------|
| SIZE OF HOLE | GRADE, SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
| *11 | WC50, 8 5/8 | 24# | 1000' | 525 SACKS - CIRCULATE |
| 7 7/8 | WC50, L80, 5 1/2" | 15.5 & 17# | 7100' | 2000 SACKS - CIRCULATE |

CEMENTING PROGRAM:

SURFACE CASING - 325 SACKS CLASS C W/ 4% GEL, 2% CACL2 (13.5 PPG, 1.74 CF/S, 9.11 GW/S). F/B 200 SACKS CLASS C W/ 2% CACL2 (14.8 PPG, 1.34 CF/S, 6.3 GW/S).

PRODUCTION CASING - 1500 SACKS 35/65 POZ CLASS H W/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.4 PPG, 2.14 CF/S, 11.9 GW/S). E/B 500 SACKS 50/50 POZ CLASS H W/ 2% GEL, 5% SALT, 1/4# FLOCELE (14.2 PPG, 1.35 CF/S, 6.3 GW/S).

THERE ARE NO OTHER OPERATORS IN THIS QUARTER QUARTER SECTION.

ESTIMATED DRILLING DAYS TO T.D.: 20 DAYS ESTIMATED COMPLETION DAYS: 15 DAYS

*VERBAL APPROVAL FROM JERRY SEXTON (NMOCD) 10/24/95 TO SET 8 5/8" SURFACE CASING IN AN 11" HOLE.

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 true verticle depths. Give blowout preventer program, if any.

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

SIGNATURE C. Wade Howard TITLE Eng. Assistant DATE 11/1/95
TYPE OR PRINT NAME C. Wade Howard

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

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.

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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.

DISTRICT I
P. O. Box 1980, Hobbs, NM 88240

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

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

DISTRICT IV
P. O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 10, 1994

Instructions on back

Submit to Appropriate District Office

State Lease-4 copies
Fee Lease-3 copies

☐ AMENDED REPORT

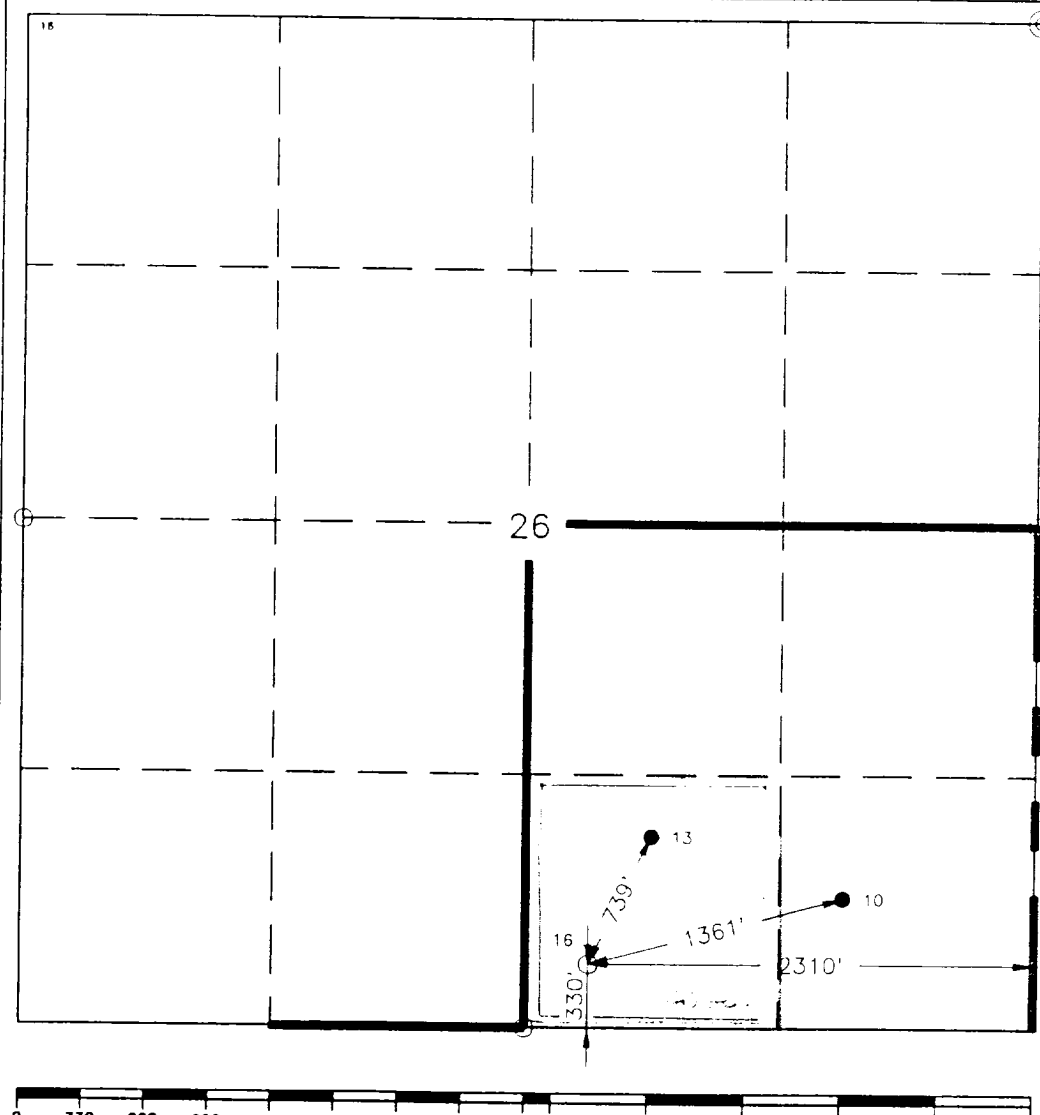
WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | | | | |
|-----------------|--|---------------------------------------|--|---------------------------------------|---------------|
| 1 API Number | | 2 Pool Code | | 3 Pool Name | |
| | | | | Justis Blinbery; Justis Tubb/Drinkard | |
| 4 Property Code | | 5 Property Name | | | 6 Well Number |
| 10944 | | C. C. Fristoe "B" Federal NCT-2 | | | 16 |
| 7 OGRID No. | | 8 Operator Name | | | 9 Elevation |
| 22351 | | TEXACO EXPLORATION & PRODUCTION, INC. | | | 3177' |

| 10 Surface Location | | | | | | | | | |
|---------------------|------------|-------------|----------|------------|------------------|---------------------|------------------|-------------------|-----------|
| 11 UL or lot no. | 12 Section | 13 Township | 14 Range | 15 Lot Idn | 16 Feet from the | 17 North/South line | 18 Feet from the | 19 East/West line | 20 County |
| 0 | 26 | 24-S | 37-E | | 330' | South | 2310' | East | Lea |

| 11 Bottom Hole Location If Different From Surface | | | | | | | | | |
|---|------------|--------------------|----------|-----------------------|------------------|---------------------|------------------|-------------------|-----------|
| 11 UL or lot no. | 12 Section | 13 Township | 14 Range | 15 Lot Idn | 16 Feet from the | 17 North/South line | 18 Feet from the | 19 East/West line | 20 County |
| | | | | | | | | | |
| 12 Dedicated Acres | | 13 Joint or Infill | | 14 Consolidation Code | | 15 Order No. | | | |
| 40 | | | | | | | | | |

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.

| | | |
|--|---|--|
|  | 16 OPERATOR CERTIFICATION | |
| | I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. | |
| | Signature <i>C. Wade Howard</i> | |
| | Printed Name C. Wade Howard | |
| | Position Engineer's Assistant | |
| | Company Texaco Expl. & Prod. Inc. | |
| | Date October 16, 1995 | |
| | 17 SURVEYOR CERTIFICATION | |
| | I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. | |
| | Date Surveyed October 9, 1995 | |
| Signature & Seal of Professional Surveyor <i>John S. Piper</i> | | |
| Certificate No. 7254 John S. Piper | | |
| Sheet 8 of 8 | | |

DRILLING PROGRAM

C. C. FRISTOE 'B' FEDERAL NCT-2 WELL No. 16

SURFACE DESCRIPTION:

See Item 11 (other information) in the attached Surface Use and Operations Plan.

FORMATION TOPS: Estimated KB Elevation: 3187'

| <u>Formation</u> | <u>Depth</u> | <u>Lithology</u> | <u>Fluid Content</u> |
|------------------|--------------|------------------|----------------------|
| Rustler | 925' | Anhy, Salt | ---- |
| Tansill | 2270' | Anhy, Dolo | ---- |
| Yates | 2470' | Sandstone, Anhy | ---- |
| Queen | 3115' | Sandstone, Anhy | ---- |
| Blinebry | 5100' | Dolomite, Anhy | Oil |
| Drinkard | 5840' | Dolomite, Anhy | Oil |
| Abo | 6035' | Dolo, Limestone | Oil |
| Devonian | 6975' | Dolomite | Oil |

The base of the salt section is the top of the Tansill at 2270'. No abnormal pressures or temperatures are anticipated to be encountered in this well. H₂S is present in the Blinebry. H₂S RADIUS OF EXPOSURE: 100ppm = 26', 500ppm = 12', based on 300ppm H₂S and 380 MCF (see attached H₂S Drilling Operations Plan. H₂S equipment to be operational prior to drilling out Surface Casing Shoe.)

PRESSURE CONTROL EQUIPMENT:

A 3000 psi Dual Ram type preventer with rotating head will be used. (See Exhibit C). We do not plan to have an annular preventer. We will be able to achieve full closure of the well with the double ram preventer. It will be installed after surface casing is set. BOP will be tested each time it is installed on a casing string and at least every 29 days, and operated at least once each 24-hour period during drilling.

A PVT system will not be installed. We will be drilling thru the reserve pit and will circulate the steel pits one hour each tour to check for gains and losses and will be noted on the driller's log, which is Texaco's policy.

We do not plan to run an automatic remote-controlled choke. We will have installed and tested two manual, H₂S trimmed, chokes.

CASING AND CEMENT PROGRAM:

The casing and cementing programs are detailed on Form 3160-3. All casing will be new.

Centralizer Program:

Surface Casing - Centralize the bottom 3 joints and every 4th to surface.

Production Casing - Centralize every 3rd joint on bottom 2000'.

MUD PROGRAM:

| <u>Depth</u> | <u>Type</u> | <u>Weight</u> | <u>Viscosity</u> |
|--------------|--------------|---------------|------------------|
| 0'-1000' | Fresh Water | 8.4 | 28 |
| 1000'-5000' | Brine | 10.0 | 29 |
| 5000'-7100' | Brine/Starch | 10.0 | 32-36 |

Bottom Hole Pressure at T.D. estimated to be 6.7 PPG EMW (2474 psi).

LOGGING, TESTING:

GR-CNL-LDT, GR-DLL-MSFL, and GR-Sonic surveys will be run.

A two-man Mud Logging Unit will be used from 3300' to T.D.

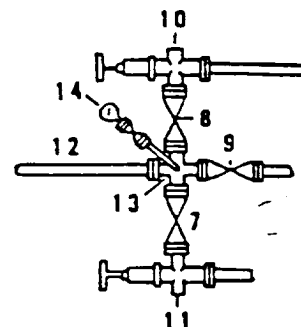
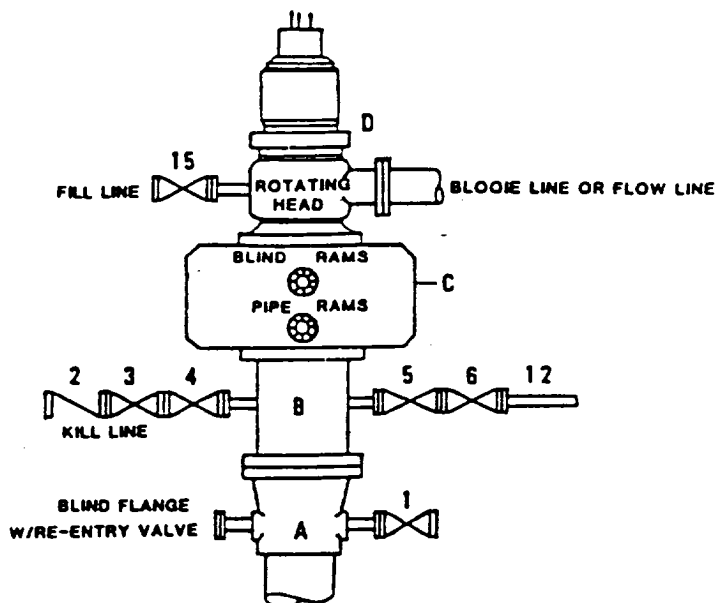
No drill stem tests will be conducted.

No cores will be taken.

**DRILLING CONTROL
CONDITION II-B 3000 WP
FOR AIR DRILLING OR
WHERE NITROGEN OR AIR BLOWS ARE EXPECTED**

H₂S TRIM REQUIRED

YES ☒ NO ☐



DRILLING CONTROL

MATERIAL LIST - CONDITION II - B

- | | |
|----------------|---|
| A | Texaco Wellhead |
| B | 3000# W.P. drilling spool with a 2" minimum flanged outlet for kill line and 3" minimum flanged outlet for choke line. |
| C | 3000# W.P. Dual ram type preventer, hydraulic operated with 1" steel, 3000# W.P. control lines (where sub-structure height is adequate, 2 - 3000# W.P. single ram type preventers may be utilized). |
| D | Rotating Head with fill up outlet and extended Bloode Line. |
| 1,3,4, 7,8, | 2" minimum 3000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve. |
| 2 | 2" minimum 3000# W.P. back pressure valve. |
| 5,6,9 | 3" minimum 3000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve. |
| 12 | 3" minimum schedule 80, Grade "B", seamless line pipe. |
| 13 | 2" minimum x 3" minimum 3000# W.P. flanged cross. |
| 10,11 | 2" minimum 3000# W.P. adjustable choke bodies. |
| 14 | Cameron Mud Gauge or equivalent (location optional in choke line). |
| 15 | 2" minimum 3000# W.P. flanged or threaded full opening steel gate valve, or Halliburton Lo Torc Plug valve. |



TEXACO, INC.
MIDLAND DIVISION
MIDLAND, TEXAS



| | | | |
|-------------|------|--------|--------|
| SCALE | DATE | EST NO | DRG NO |
| DRAWN BY | | | |
| CHECKED BY | | | |
| APPROVED BY | | | |

EXHIBIT C