OPER. OGRID NO. 22351 OCD

PROPERTY NO. 16931

POOL CODE 34982

EFF. DATE 2/12/95

API NO. 30-025-33[illegible]

Form 3160-3
(December 1990)

SUBMIT IN TRIPLICATE

UNITE
DEPARTMENT
BUREAU OF LA

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

5. Lease Designation and Serial No.
NMLC-057509

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

6. If Indian, Alottee or Tribe Name

1a. Type of Work DRILL ☒ DEEPEN ☐

7. If Unit or CA, Agreement Designation

1b. Type of Well
OIL WELL ☒ GAS WELL ☐ OTHER
SINGLE ZONE ☒
MULTIPLE ZONE ☐

8. Well Name and Number
G. L. ERWIN 'B' FEDERAL NCT-2

2. Name of Operator
TEXACO EXPLORATION & PRODUCTION INC.

8

3. Address and Telephone No.
P.O. Box 3109, Midland Texas 79702 688-4606

9. API Well No.

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At Surface
Unit Letter I : 1550 Feet From The SOUTH Line and 700 Feet From The EAST Line
At proposed prod. zone
SAME

10. Field and Pool, Explortory Area
JUSTIS: BLINEBRY, TUBB DRINKARD, McKEE NORT H

11. SEC., T., R., M., or BLK. and Survey or Area
Sec. 35, Township 24-S, Range 37-E

14. Distance In Miles and Direction from Nearest Town or Post Office*
5.3 MILES NE OF JAL, NM

12. County or Parish
LEA

13. State
NM

15. Distance From Proposed* Location to Nearest Property or Lease Line, Ft. (also to nearest drlg. unit line, if any)
700'

16. No. of Acres in Lease
160

17. No. of Acres Assigned To This Well
40

18. Distance From Proposed Location* to Nearest Well, Drilling, Completed or Applied For, On This Lease, Ft.
1180' TO #5

19. Proposed Depth
8300'

20. Rotary or Cable Tools
ROTARY

21. Elevations (Show whether DF,RT, GR, etc.)
GR-3163'

22. Approx. Date Work Will Start*
1/15/96

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	K55, L80, 5 1/2	15.5 & 17#	8300'	2100 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 - 1600 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). F/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) 12/5/95 TO SET 8 5/8" SURFACE CASING IN AN 11" HOLE.
UNORTHODOX LOCATION DUE TO TOPOGRAPHY. EXCEPTION IS BEING APPLIED FOR.

NSL-3625

BUREAU OF LAND MANAGEMENT
RECEIVED
DEC 06 1995
Carlsbad, New Mexico

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 12/6/95

TYPE OR PRINT NAME C. Wade Howard

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

(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 (ORIG. SGD.) RICHARD L. MANUS TITLE AREA MANAGER DATE 1-31-96

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.

DeSoto/Nichols 10-94 ver 2.0

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
30-025-33295	31920	Justis Blinebry; Justis Tubb Drinkard; Justis McKee, North

[4] Property Code	[5] Property Name	[6] Well Number
10931	G.L. Erwin "B" Federal NCT-2	8

[7] OGRID No.	[8] Operator Name	[9] Elevation
22351	TEXACO EXPLORATION & PRODUCTION, INC.	3163'

[10] Surface Location

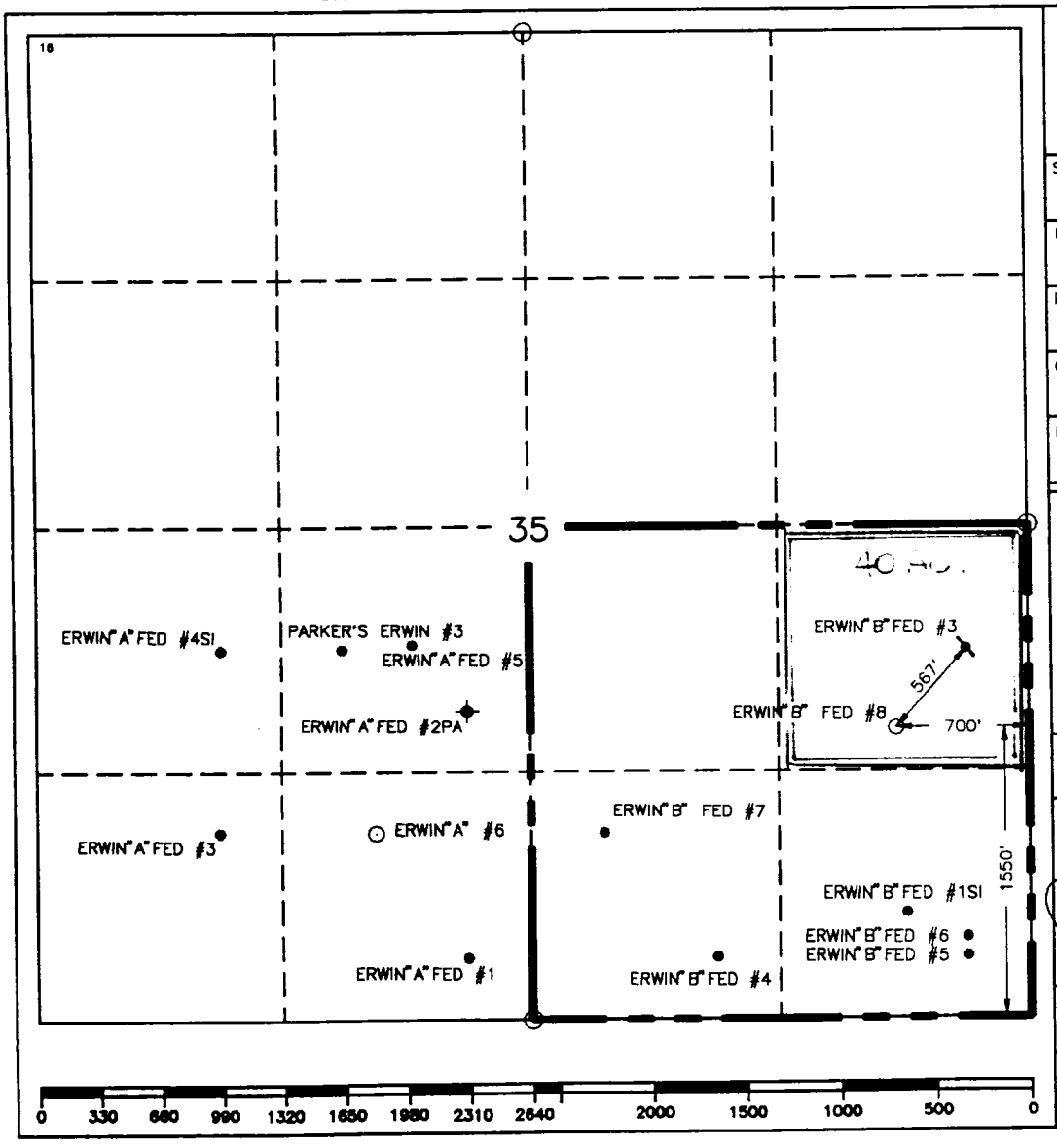
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	[7] County
I	35	24-S	37-E		1550'	South	700'	East	Lea

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	[7] 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: C. Wade Howard

Printed Name: C. Wade Howard

Position: Engineer's Assistant

Company: Texaco Expl. & Prod. Inc.

Date: December 1, 1995

[18] 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: November 29, 1995

Signature & Seal of Professional Surveyor

Certificate No. 7254 John S. Piper

Sheet: Sheet 8 of 8

DRILLING PROGRAM

G. L. ERWIN 'B' FEDERAL NCT-2 WELL No. 8

SURFACE DESCRIPTION:

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

FORMATION TOPS: Estimated KB Elevation: 3173'

Formation	Depth	Lithology	Fluid Content
Rustler	900'	Anhy, Salt	----
Tansill	2230'	Anhy, Dolo	----
Yates	2465'	Sandstone, Anhy	----
Queen	3105'	Sandstone, Anhy	----
Blinebry	5025'	Dolomite, Anhy	Oil
Drinkard	5740'	Dolomite, Anhy	Oil
Devonian	6700'	Dolomite	Oil
Fusselman	6875'	Dolomite	Oil
McKee	7780'	Sandstone	Oil

The base of the salt section is the top of the Tansill at 2230'. 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 3300'.

MUD PROGRAM:

Depth	Type	Weight	Viscosity
0'-1000'	Fresh Water	8.4	28
1000'-5000'	Brine	10.0	29
5000'-8300'	Brine/Starch	10.0	32-36

Bottom Hole Pressure at T.D. estimated to be 8.2 PPG EMW (3539 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 3000' to T.D.

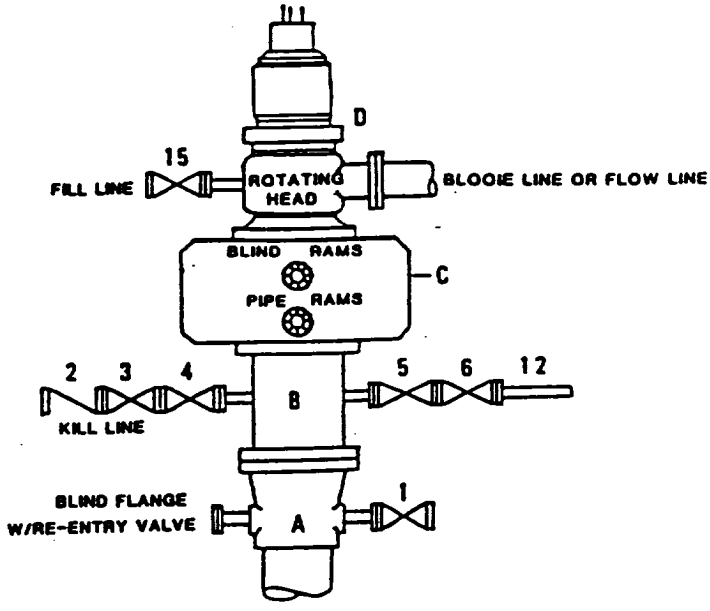
No drill stem tests will be conducted.

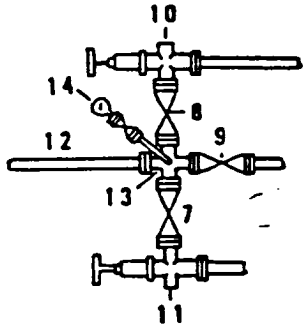
No cores will be taken.

DRILLING CONTROL
CONDITION II-B 3000 WP

FOR AIR DRILLING OR
WHERE NITROGEN OR AIR BLOWS ARE EXPECTED

H_2S 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 Blooie 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