

SUBMIT IN TRIPLICATE

UNIT  
DEPARTMENT  
BUREAU OF L

OPER. OGRID NO. 22341  
PROPERTY NO. 10426  
POOL CODE 18830  
EFF. DATE 6-11-96  
API NO. 30-025-33480

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

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. Type of Work DRILL  DEEPEN   
1b. Type of Well SINGLE ZONE   
OIL WELL  GAS WELL  OTHER MULTIPLE ZONE

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 P : 990 Feet From The SOUTH Line and 600 Feet From The EAST Line  
At proposed prod. zone  
SAME

14. Distance in Miles and Direction from Nearest Town or Post Office\*  
7 MILES NE OF JAL, NM

15. Distance From Proposed\* Location to Nearest Property or Lease Line, Ft. (also to nearest drig. unit line, if any) 3360'  
16. No. of Acres in Lease 3533.52

18. Distance From Proposed Location\* to Nearest Well, Drilling, Completed or Applied For, On This Lease, Ft. 668.7  
19. Proposed Depth 7250'

21. Elevations (Show whether DF, RT, GR, etc.) GR-3161'  
22. Approx. Date Work Will Start\* 6/1/96

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#	1205'	525 SACKS - CIRCULATE
7 7/8	WC50, L80, 5.5	15.5 & 17#	7250'	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/ 1% CACL2 (14.8 PPG, 1.32 CF/S, 6.3 GW/S).

PRODUCTION CASING - 1500 SACKS 35/65 POZ CLASS H W/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.8 PPG, 1.94 CF/S, 10.5 GW/S). F/B 500 SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S).

OXY OPERATES A WELL IN THIS QUARTER QUARTER SECTION AND HAS BEEN FURNISHED A COPY OF THIS APPLICATION. OXY'S LINES IN THE PAD AREA WILL BE MOVED.

DAYS TO DRILL: 16 DAYS DAYS TO COMPLETE: 10 DAYS.

Special stipulations  
Attached

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 4/29/96  
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 (ORIG. SGD.) RICHARD L. MANHS 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 2089, Santa Fe, NM 87504-2089

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION  
P.O. Box 2088  
Santa Fe, New Mexico 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

API Number <b>30-025-33480</b>	Pool Code 18830	Pool Name DOLARHIDE TUBB DRINKARD
Property Code 10926	Property Name WEST DOLLARHIDE DRINKARD UNIT	
OGRID No. 22351	Operator Name TEXACO EXPLORATION & PRODUCTION INC.	
		Well Number #159
		Elevation 3161'

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	30	24-S	38-E		990.0	SOUTH	600.0	EAST	LEA

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	County

Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
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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

	<p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p>Signature <i>C. Wade Howard</i></p> <p>Printed Name C. WADE HOWARD</p> <p>Position ASSISTANT ENGINEERING TECHNICIAN</p> <p>Company TEXACO EXPLOR. &amp; PROD. INC.</p> <p>Date 04-18-96</p>
	<p><b>SURVEYOR CERTIFICATION</b></p> <p>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.</p> <p>Date Surveyed 04-18-96</p> <p>Signature &amp; Seal of Professional Surveyor <i>Richard P. Reiman</i></p> <p>Certificate No. 4882</p>

## DRILLING PROGRAM

WEST DOLLARHIDE DRINKARD UNIT No. 159

### **SURFACE DESCRIPTION:**

The land surface in the area of the well site is practically level. Drainage is to the southeast. The top soil is sand. Vegetation consists mainly of shinnery oak, weeds, and range grasses.

**FORMATION TOPS:** Estimated KB Elevation: 3171'

<u>Formation</u>	<u>Depth</u>	<u>Lithology</u>	<u>Fluid Content</u>
Rustler	1210'	Anhy	----
Yates	2700'	Anhy, Dolo	----
Queen	3600'	Sandstone	Oil/Gas/Wtr
Glorieta	5100'	Sandstone, Dolo	----
Tubb	6000'	Sandstone, Dolo	Oil/Gas/Wtr
Drinkard	6200'	Limestone, Dolo	Oil/Gas/Wtr
Abo	6600'	Limestone, Dolo	Oil/Gas/Wtr

The base of the salt section is at 2600'. No abnormal pressures or temperatures are anticipated to be encountered in this well. H2S is present in the Queen and Drinkard. H2S RADIUS OF EXPOSURE: 100ppm = 24', 500ppm = 11', based on 1,000ppm H2S and 100 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 cementing program is detailed on Form 3160-3. All casing will be new.

Casing Program:

Surface Casing - \*11" hole, 8 5/8", 24#, WC-50, STC, set @ 1205'.

\*The OCD in Hobbs has approved this program.

Production Casing - 7 7/8" hole, 5 1/2": 4800' of 15.5#, WC-50, LTC, and 6000' of 17#, WC-50, LTC, and 1250' of 17#, L-80, LTC, set @ 7250'.

Centralizer Program:

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

Production Casing - Centralize every other joint on bottom 1250'.

**MUD PROGRAM:**

<u>Depth</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>
0'-1205'	Fresh Water	8.4	28
1205'-7250'	Brine	10.0	29

Bottom Hole Pressure at T.D. estimated to be 6.4 PPG EMW. (2413 psi)

Duration of Operation: 16 Days to Drill + 10 Days to Complete= 26 Days

**LOGGING, TESTING:**

NGT-CNL-LDT, GR-DLL-MSFL, GR-BHC, and GR-CMR surveys will be run.

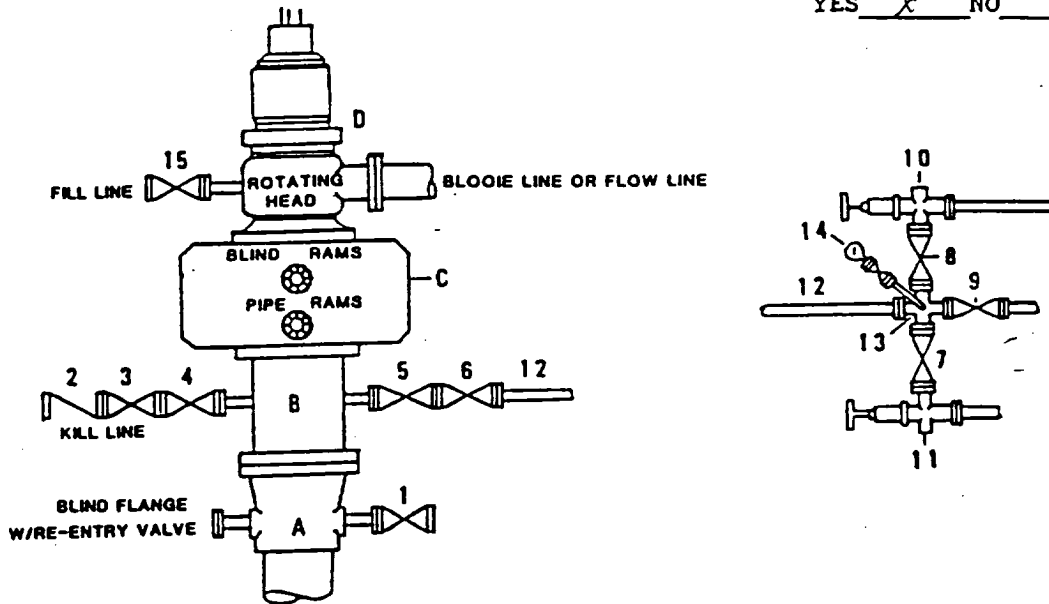
No Mud Logging Unit will be used.

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<sub>2</sub>S TRIM REQUIRED  
YES X 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 Blowout 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