

Form 3100-2  
(July 1989)  
(formerly 9-331C)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OFFICE FOR NUMBER  
OF COPIES REQUIRED  
(Other instructions  
reverse side)

MODIFIED FORM NO.  
NM060-3160-2

30-025-32444  
5. LEASE DESIGNATION AND SERIAL NO.  
NM-10185  
LC-067068

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL  
WELL ☒

GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☒

MULTIPLE  
ZONE ☐

2. NAME OF OPERATOR

TEXACO EXPLORATION AND PRODUCTION INC.

3a. AREA CODE & PHONE NO.

(915) 688-4620

3. ADDRESS OF OPERATOR

P. O. Box 3109, Midland, Texas 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

1750' FNL & 150' FEL, UNIT LETTER: H

At proposed prod. zone

SAME

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

7 MILES NORTHEAST OF JAL, NEW MEXICO

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. unit line, if any)

1532'

16. NO. OF ACRES IN LEASE

3533.52

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.

898'

19. PROPOSED DEPTH

7640'

20. ROTARY OR CABLE TOOLS

ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, ETC.)

GR-3189'

22. APPROX. DATE WORK WILL START \*

FEBRUARY 15, 1994

23. PROPOSED CASING AND CEMENTING PROGRAM

HOLE SIZE	CASING SIZE	WEIGHT/FOOT	GRADE	THREAD TYPE	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2	13 3/8	48#	WC-40	PE	40'	REDIMIX
12 1/4	8 5/8	24#	WC-50	ST&C	1300' CIRCULATE	500 SACKS
7 7/8	5 1/2	15.5# & 17#	WC-50 & L-80	LT&C	7640' (PLUG BACK)	2000 SACKS

CEMENTING PROGRAM: CONDUCTOR - REDIMIX.

SURFACE CASING - 400 SACKS CLASS C w/ 4% GEL, 2% Cacl<sub>2</sub> (13.5ppg, 1.74cf/s, 9.11gw/s). F/B 200 SACKS  
CLASS C w/ 2% Cacl<sub>2</sub> (14.8ppg, 1.34cf/s, 6.31gw/s).

PRODUCTION CASING - 1500 SACKS 35/65 POZ CLASS H w/ 6% GEL, 5% SALT & 1/4# CELLOPHANE FLAKES (12.  
8ppg, 1.94cf/s, 10.4gw/s). F/B 500 SACKS CLASS H (15.6ppg, 1.18cf/s, 5.2gw/s).

OXY OPERATES A WELL IN THIS QUARTER QUARTER SECTION AND HAS BEEN FURNISHED A COPY OF THIS APPLICATION.

UNORTHODOX LOCATION GRANTED 12-28-93 UNDER ADMINISTRATIVE ORDER NSL-3338 (COPY ATTACHED)

OPER. OGR NO. 022351

PROPERTY NO. 010926

POOL CODE 1883D

EFF. DATE 3-7-94

AP. NO. 30-025-32444

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, 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 prevention program,  
if any.

24.

SIGNED C.P. Basham/cwh TITLE DRILLING OPERATIONS MANAGER DATE 01-05-94

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

(OR 2. SUB) RICHARD L. MANUS

TITLE AREA MANAGER

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

DATE FEB 25 1994  
APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
ATTACHED

\*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.

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

State of New Mexico  
Energy, Minerals and Natural Resources Dep. 201

Form C-102  
Revised 1-1-89

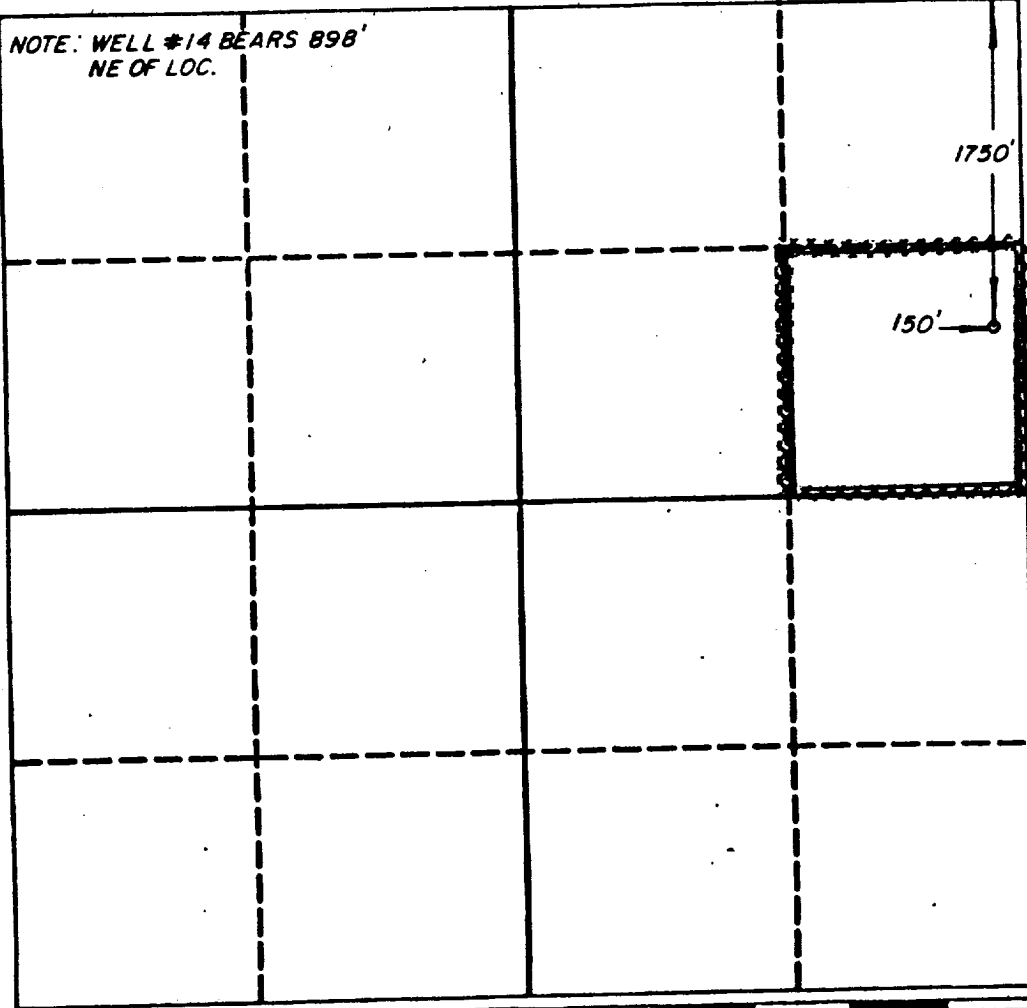
OIL CONSERVATION DIVISION  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

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

WELL LOCATION AND ACREAGE DEDICATION PLAT  
All Distances must be from the outer boundaries of the section

Operator <b>TEXACO EXPLORATION &amp; PRODUCTION</b>			Lease <b>WEST DOLLARHIDE DRINKARD UNIT</b>		Well No. <b>143</b>
Unit Letter <b>H</b>	Section <b>30</b>	Township <b>24 SOUTH</b>	Range <b>38 EAST</b>	County <b>LEA</b>	
Actual Footage Location of Well: <b>1750</b> feet from the <b>NORTH</b> line and <b>150</b> feet from the <b>EAST</b> line					
Ground level Elev. <b>3189'</b>	Producing Formation (ABO &) <b>TUBB DRINKARD (DRINKARD)</b>		Pool <b>DOLLARHIDE TUBB DRINKARD</b>		Dedicated Acreage: <b>40</b> Acres
<p>1. Outline the acreage dedicated to the subject well by colored pencil or ink on the plat below.</p> <p>2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).</p> <p>3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? <input type="checkbox"/> Yes <input type="checkbox"/> No If answer is "yes" type of consolidation <b>UNITIZATION</b></p> <p>If answer is "no" list the owners and trust descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)</p> <p>No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.</p>					
<p>NOTE: WELL #14 BEARS 898' NE OF LOC.</p> 			<b>OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.		
			Signature <i>R.D. Mariott</i>		
			Printed Name <b>R.D. MARIOTT</b>		
			Position <b>DIVISION SURVEYOR</b>		
			Company <b>TEXACO E &amp; P</b>		
			Date <b>December 16, 1993</b>		
			<b>SURVEYOR CERTIFICATION</b> 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. <b>December 16, 1993</b>		
			Date Surveyed		
			Signature & Seal of Professional Surveyor <i>[Signature]</i>		
			Certificate No. <b>4882</b>		

OPERATOR - LANDOWNER AGREEMENT

COMPANY: TEXACO EXPLORATION AND PRODUCTION INC.

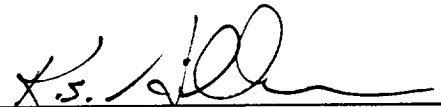
PROPOSED WELL: WEST DOLLARHIDE DRINKARD UNIT # 143

FEDERAL LEASE NUMBER: LC 067968

This is to advise that Texaco Exploration and Production Inc. has an agreement with Elena B. Grobe & Husband, the surface owner, concerning entry and surface restoration after completion of drilling operations at the above described well.

After abandonment of the well, all pits will be filled and levelled, and all equipment and trash will be removed from the well site. No other requirements were made concerning restoration of the well site.

1-4-94  
Date

  
C. P. Basham or K. S. Hillman  
Division Drilling Operations Managers  
Midland, Texas

## DRILLING PROGRAM

WEST DOLLARHIDE DRINKARD UNIT No. 143

### **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: 3200'

<u>Formation</u>	<u>Depth</u>	<u>Lithology</u>	<u>Fluid Content</u>
Rustler	1300'	Anhy	----
Yates	2800'	Anhy, Dolo	----
Queen	3775'	Sandstone	Oil/Gas/Wtr
Glorieta	5330'	Sandstone, Dolo	----
Tubb	6280'	Sandstone, Dolo	Oil/Gas/Wtr
Drinkard	6600'	Limestone, Dolo	Oil/Gas/Wtr
Abo	6800'	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. H<sub>2</sub>S is present in the Queen and Drinkard. H<sub>2</sub>S RADIUS OF EXPOSURE: 100ppm = 24', 500ppm = 11', based on 1,000ppm H<sub>2</sub>S and 100 MCF (see attached H<sub>2</sub>S Drilling Operations Plan. H<sub>2</sub>S 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, H<sub>2</sub>S trimmed, chokes.

West Dollarhide Drinkard Unit Well No. 143

**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 other joint on bottom 1640'.

**MUD PROGRAM:**

<u>Depth</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>
0'-1300'	Fresh Water	8.4	28
1300'-7640'	Brine	10.0	29

**LOGGING, TESTING:**

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

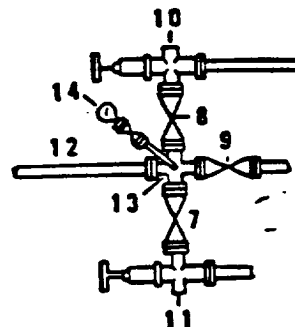
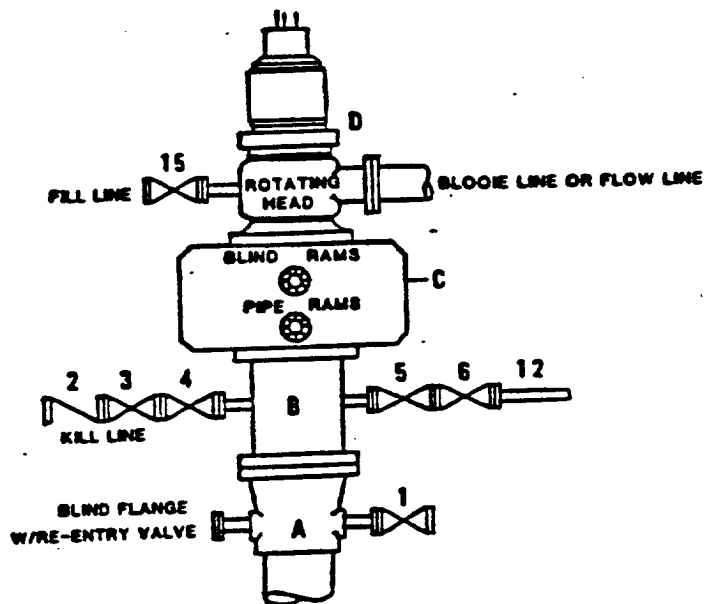
No Mud Logging Unit will be used.

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          | Taraco 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 Blooe 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.	DWG. NO.
DRAWN BY			
CHECKED BY			
APPROVED BY			

**EXHIBIT C**



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING  
GOVERNOR

ANITA LOCKWOOD  
CABINET SECRETARY

December 28, 1993

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504  
(505) 827-5800

Texaco Exploration and Production, Inc.  
P.O. Box 3109  
Midland, TX 79702

Attention: C.P. Basham

*Administrative Order NSL-3338*

Dear Mr. Basham:

Reference is made to your application dated December 20, 1993 for six unorthodox oil well locations for the purpose of completing an efficient injection/production pattern within your Skelly West Dollarhide Drinkard Waterflood Project Area, established by Division Order No. R-3768, dated May 28, 1969.

The following described wells are to be located in Townships 24 and 25 South, Range 38 East, NMPM, Dollarhide Tubb-Drinkard Pool, West Dollarhide Drinkard Unit Area, Lea County, New Mexico:

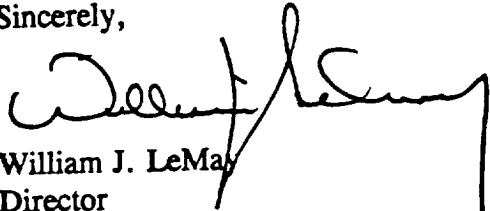
<i>Well No.</i>	<i>Footage Location</i>	<i>Unit</i>	<i>Section</i>	<i>Dedicated 40-Acre Tract</i>
124	300' FNL - 1350' FWL	C	4-25S-38E	Lot 2 (40.42 acres)
141	100' FNL - 2580' FEL	B	32-24S-38E	NW/4 NE/4
142	1400' FSL -2580' FEL	J	29-24S-38E	NW/4 SE/4
143	1750' FNL - 150' FEL	H	30-24S-38E	SE/4 NE/4
144	1400' FSL - 1880' FEL	J	32-24S-38E	NW/4 SE/4
145	2539' FSL - 2060' FWL	K	32-24S-38E	NE/4 SW/4

*Administrative Order NSL-3338*  
*Texaco Exploration and Production, Inc.*  
*December 28, 1993*  
*Page 2*

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By the authority granted me under the provisions of General Rule 104 F.(1), the above-described unorthodox oil well locations are hereby approved.

Sincerely,

A handwritten signature in black ink, appearing to read 'William J. LeMay', with a long vertical line extending downwards from the end of the signature.

William J. LeMay  
Director

WJL/MES/amg

cc: Oil Conservation Division - Hobbs  
US Bureau of Land Management - Carlsbad  
NM State Land Office - Santa Fe