Form 3160-3 (December 1990)

SUBMIT IN TRIPLICATE

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED

Budget Bureau No. 1004-0136

Expires: December 31, 1991

				i i	NM-18848	
£	APPLICATION FOR	R PERMIT TO DRILL	L OR DEEPEN	6. If Indian, Alottee or Tribe		
				7 H I Init or CA Agreement I	Designation	
1b. Type of Well				7. If Unit or CA, Agreement Designation		
OII 🖶 GAS			SINGLE ZONE	8. Well Name and Number	· · · · · · · · · · · · · · · · · · ·	
WELL WELL	OTHER		MULTIPLE ZONE	SDE '31' FEDERAL		
2. Name of Operator	TEXACO EXPLO	DRATION & PRODUCTIO	ON INC.	16		
3. Address and Telephon	P.O. Box 3109	Midland Texas 79702	688-4606	9. API Well No.		
I. Location of Well (Repo	ort location clearly and in ac	cordance with any State requ	uirements.*)	10. Field and Pool, Explortor	v Area	
At Surface		OUTH Line and 660	Feet From The EAST Line	TRISTE DRAW WEST & SA	•	
Jnit Letter P : 46 At proposed prod. zone	i0 Feet From The S	11. SEC., T., R., M., or BLK. and Survey or Area				
		SAME	•	Sec. 31, Township	23-S , Range 32-E	
4. Distance In Miles and	Direction from Nearest Tow	n or Post Office*		12. County or Parish	13. State	
	23 MILES E	AST OF LOVING, NM		LEA	NM	
•	sed* Location to Nearest Innearest drig. unit line, if any)	operty or 460'	16. No. of Acres in Lease 1994.13	17. No. of Acres Assigned To This Well 40		
8. Distance From Propos	sed Location* to Nearest \W	ell. Drillina.	19. Proposed Depth	20. Rotary or Cable Tools	<u> </u>	
Completed or Applied For		1334'	9200	ROT	ARY	
21.Elevations (Show whet	ther DF,RT, GR, etc.)	GR-3602'	arished Controlled Vision	22. Appro	x. Date Work Will Start* 5/15/95	
:3.		PROPOSED CAS	SING AND CEMENT PROGR	RAM		
SIZE OF HOLE	GRADE, SIZE OF CAS NO	WEIGHT PER FOOT	T SETTING DEPTH	QUANTITY	OF CEMENT	
1	WC50, 8 5/8	24#	950'	325 SACKS - CIRCULATI	=	
	1		1000			
	J55/L80, 5 1/2	17#	9200'	1600 SACKS - CIRCULAT	E	
CEMENTING PROGRA SURFACE CASING - 1 PPG, 1.34 CF/S, 6.3 G PRODUCTION CASIN DV TOOL @ 5300'. 2N SACKS CLASS H (15.6	J55/L80, 5 1/ ₂ AM: 75 SACKS CLASS C W W/S). G - 1ST STAGE - 750 S ND STAGE - 750 SACKS 5 PPG, 1.18 CF/S, 5.2 G	7/ 4% GEL, 2% CACL2 (13 ACKS 50/50 POZ CLASS 3 35/65 POZ CLASS H W. W/S).	9200' 3.5 PPG, 1.74 CF/S, 9.11 GW/S) 6 H W/ 2% GEL, 5% SALT, 1/4# FLOC	1600 SACKS - CIRCULAT	C W/ 2% CACL2 (14.8 CF/S, 6.3 GW/S). c, 10,4 GW/S). F/B 100	
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DISTRICT 1 P. O. Box 1980, Hobbs, NM 88240

DISTRICT II

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P. O. Drawer DD, Artesia, NM 88210 DISTRICT III 1000 Rio Brozos Rd., Aztec, NM 87410

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

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994

Instructions on back

Submit to Appropriate District Office

State Lease-4 copies Fee Lease-3 copies

OIL CONSERVATION DIVISION

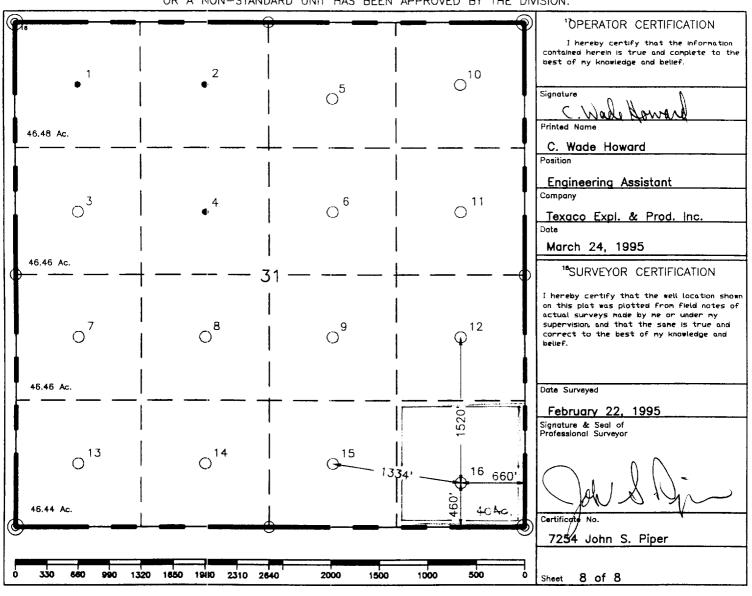
P0 Box 2088 Santa Fe, NM 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT 159945 Delaware Springs TRISTE DRAW WEST; SAND DUNES SOUTH BONE SPRINGS

Property Cod		Property Name						^B Weil Number	
15704	.	SDE "31" FEDERAL							16
OGRID No.		^R Operator Name						⁹ Elevation	
9932	\	TEXACO EXPLORATION & PRODUCTION, INC.						3602'	
¹⁰ Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Р	31	23-S	32-E		460'	South	660,	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	⁷ County
14)edicated Acres	[13 _{.1c}	pint or Infill	14Cannalis	ation Code	15Order No.				<u> </u>

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.



DRILLING PROGRAM

SDE '31' FEDERAL WELL NO. 16

SURFACE DESCRIPTION:

The land surface in this area is relatively level with moderate sand dunes. Regionally, the land slopes to the Southwest. Vegetation consists mainly of scrub oak, mesquite, and range grasses.

FORMATION TOPS: Estimated KB Elevation: 3612'

Formation	<u>Depth</u>	Lithology	Fluid Content
Rustler	930'	Anhydrite, Salt	
Salado	1245'	Salt	
Delaware Mtn Group	4620'	Sandstone, Shale	Oil/Gas
Cherry Canyon	5550 '	Sandstone, Shale	Oil/Gas
Brushy Canyon- Pay	7100'	Sandstone, Shale	Oil/Gas
Lower Brushy Canyon- Pay	8150 '	Sandstone, Shale	Oil/Gas
Bone Spring- Pay	8570 '	Limestone	Oil/Gas

The base of the salt section is found around 4390'. No abnormal pressures, temperatures, or hazardous gases are anticipated to be encountered in this well. Texaco recently drilled wells in this area and no H2S was encountered.

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 bottom 500' every other cplg. and above and below the DV tool.

MUD PROGRAM:

Depth	Type	<u>Weight</u>	<u>Viscosity</u>
0'-950'	Fresh Water	8.4	28
950'-7000'	Brine Water	10.0	29
7000'-9200'	Fresh Water Gel	8.4-8.8	45

Bottom Hole Pressure at T.D. estimated to be 8.4 PPG EMW.

LOGGING, TESTING:

GR-CAL-DSN-SDL and GR-CAL-DISFL surveys will be run.

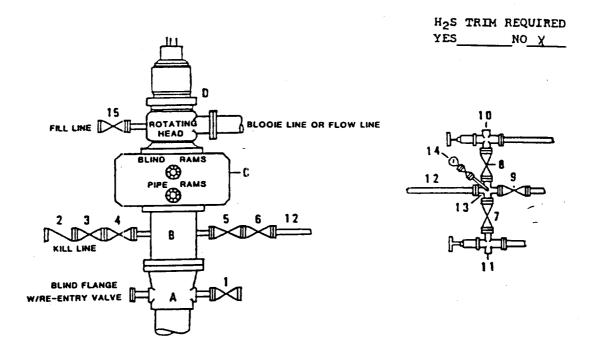
A two-man Mud Logging Unit will be used from 4400' to 9200'.

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



DRILLING CONTROL

MATERIAL LIST - CONDITION II - B

λ	Texaco Wellhead
в .	30000 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 $^{\rm H}$ steel, 3000% W.P. control lines (where substructure height is adequate, 2 - 3000% W.P. single ram type preventers may be utilized).
D	Rotating Head with fill up outlet and extended Bloome Line.
1,3,4,	$2^{\rm st}$ 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 Hall:burton 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 Hud Gauge or equivalent (location optional in choke line). $\label{eq:condition}$
15	2" minimum 3000# W.P. flanged or threaded full opening steel gate valve, or Halliburton Lo Torc Plug valve.



TEXACO, INC.



SCALE	DATE	EST HO	DRG. NO.
DRAWN SY			
CHECKED BY		1	