s	$F_{-\frac{1}{2}} = e^{-\frac{1}{2}}$	an a	anan san san san san san san san san san						
Form 3160–3 (July 1989) (formerly 9–3	31C)	TATES	off OF (Other	NTACT RI ICE FOR N COPIES REQ r instructions	UIRED	BLM Roswe Modified Fo NM060-316	m No.		
-		PARTMENT O		NUN	erse side)	1	5. LEASE DESK	NATION AN	ID SERIAL NO.
	I	BUREAU OF LAN	D MANAGEMEN	т				NM-590	)45
APPLICA	TION FOR	PERMIT TO I	DRILL, DEE	PEN, OR I	PLUG B	ACK	6. IF INDIAN, A	LLOTTEE C	R TRIBE NAME
a. TYPE OF WORK b. TYPE OF WELL			PLU	PLUG BACK 📋			7. UNIT AGREEMENT NAME		
		OTHER			MULTIPLE		8. FARM OR LE	ASE NAME	<u></u>
NAME OF OPERAT					A CODE & PHON		the second s	ERAL (U	ISA) 'J'
		PRODUCTION IN	<u>с.</u>	(915)	688-462	0	9. WELL NO.	•	
ADDRESS OF OPE P. O. BOX		nd, Texas 797	102				10. FIELD AND	900L, OR	WILDCAT
		clearly and in accord		e requirements.*)			LUSK D	ELAWA	RE, WEST
At surface 1980' FSL ( At proposed pr	& 330' FEL, U od. zone	NIT LETTER: 1					11. SEC., T., R AND SURVE	Y OR ARE	4
SAME									-S, R-32-E
		FROM NEAREST TOWN					12. COUNTY OR LEA	PARISH	13. STATE NM
		AMAR, NEW ME		D. OF ACRES IN L	EASE		ACRES ASSIGNED		
5. DISTANCE FROM LOCATION TO NE PROPERTY OR L	EAREST EASE LINE, FT. t drig. unit line, if a	330'		160	TO THIS WELL		WELL	40	
8. DISTANCE FROM	PROPOSED LOCATION	*	19. PF	ROPOSED DEPTH		20. ROTAR	RY OR CABLE TOOLS		
TO NEAREST WE OR APPLIED FOR	ELL, DRILLING, COMP R, ON THIS LEASE, F	LETED, T. 104	0'	7200'			ROTARY		
1. ELEVATIONS (Sh	ow Whether DF, RT,	GR, ETC.)	Paster (	Controlled W	atas Beal				K WILL START *
GR-3547'			·····				<u>MA</u>	RCH 1,	1994
3.		PROPOS	ED CASING AND		PRUGRAN	n 		1	
HOLE SIZE	CASING SIZE	WEIGHT/FOOT	GRADE	THR	EAD TYPE	SETTI	NG DEPTH		ITY OF CEMENT
<u>17 1/2</u> 14 3/4	16 11 3/4	65# 42#	H-40 WC-40		PE T&C		40' 850 ORCL	1	REDIMIX
11	8 5/8	32#	WC-50		T&C		100'	16	50 SACKS7SEE
7 7/8	5 1/2	15.5#	WC50, J55, L		T&C	1 7	200'	1 11	15 SACKS
JRFACE CASIN ASS C w/ 29 TERMEDIATE 10.1gw/s). V TOOL @ 28 94f3/s, 10.1 RODUCTION CA	IG - 300 SACK 6 Cacl2 (14.8p CASING - 450 F/B 200 SAC 00' - 2nd STA 1gw/s). F/B 1 ISING - 950 SA	JCTOR - REDIMD S CLASS C w/ 4 pg, 1.34f3/s, 6 SACKS 35/65 P6 KS CLASS H w/ GE: 900 SACKS 00 SACKS CLAS CKS 35/65 P0Z 50/50 P0Z CL/	I% GEL, 2% Ca 5.3gw/s). DZ CLASS H w 1% Cacl2 (15 35/65 POZ Cl S H w/ 2% Ca CLASS H w/	/ 6% GEL, 5 .6ppg, 1.18 LASS H w/ 6 cl2 (15.6pp 6% GEL, 5%	% SALT & f3/s, 5.2 % GEL, 5 g, 1.19f3 SALT & 1	1/4# 1 2gw/s). % SALT /s, 5.2 /4# FL	FLOCELE (1) , 1/4# FLO 2gw/s). OCELE (12. E (14.2ppg, OPER. OGI	2.8ppg, CELE (1 8ppg, 1.35f3 R(D NO	, 1.94f3/  2.8ppg, 1.94f3/s,
IERE ARE NO	OTHER OPERAT	rors in this qu	ARTER QUARTE	(	General F	loquire	PHOPEHIN FROM MED	E_4	1540
ABOVE SPACE DES proposal is to dril any.	CRIBE PROPOSED PRO 1 or deepen directio	GRAM: If proposal is nally, give pertinent o	to deepen or plug i lata on subsurface	hack nive data d		nductive	APLNO	E-De	25-3244
	C. P. Bas	am/cwit	TITLE	DRILLING OPE	RATIONS	MANAGE	ER DATE	01-	-06-94
. ,		;							
ADDOVED BY	TimeTh.	PARL		AREA M	ANAGE	R	DATE	MAR	3 1994
CONDITIONS OF	APPROVAL, IF ANY :	J							607 <b>4</b> 4

# \*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

DISTRICT\_1 P. O. Box 1980, Hobbs, NM 88240

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

DISTRICT III 1000 Rio Brazos Rd., Aztac, NM 87410 State of New Mexico Energy, Minerals and Natural Resources Department

# OIL CONSERVATION DIVISION

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

# WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the section

Operator	·		Lease		I Well A
	LORATION AND	PRODUCTION Inc.	Federal (USA	) <b>"</b> 」	Well No. 3
Unit Letter	Section	Township	Range		County
Actual Footage Loca	30	19-South	32-East	NMPM	Lea
1980	feet from the	South line and	330	feet from the	East line
Ground level Elev.	Producing F	ormation	Pool	1991 Irom tris	EQSE line Dedicated Acreage:
3547	Delaware	; Brushy Canyon	Lusk Delaw	ore, West	40 Acres
	-	ited to the subject well by col			
2. If mor	e than one lease is	dedicated to the well, outline	each and identify the ow	nership thereof (both as to wo	rking interest and royalty).
	e than one lease of ion, force—pooling, d	different ownership is dedicat	ed to the well, have the	interest of all owners been cor	nsolidated by communitization,
	Yes 🗌		type of consolidation	panlidated (use reverse side of	
this form	if necessary	·		· · · · · · · · · · · · · · · · · · ·	
		to the well until all interests eliminating such interest, has			torceampooling, or otherwise)
<b>@</b>		φ			OPERATOR CERTIFICATION
			1		I hereby certify that the information
	ļ		1		contained herein is true and complete to the bast of my knowledge and belief.
	1		I		
	ł		1		Signifiture
	1		1		Nayed. Marcall
	1		1		Printed Nome
+	+	+			Royce D. Mariott
	l l		1		
	l				Division Surveyor
	l			11	Texaco Exp. & Prod.
	l				Date
	[ ]		1		December 17, 1993
<del> </del>		30 🗕			SURVEYOR CERTIFICATION
	I	E .	TEXACO EXPL		I hereby certify that the well location shown
	l		Federal US		on this plat was plotted from field notes of actual surveys made by me or under my
11	1		o <sup>4</sup>		supervision, and that the same is true and correct to the best of my knowledge and
	1	I	Ŭ II	¥ 330	beliaf.
	!	₽.	Į.		
	ļ	1		40 Ac.	Date Surveyed
		t			December 15, 1993
		ļ	0 <sup>5</sup>		Signature & Seal of Professional Surveyor
	1		1	2	$\frown$
	1	Ĭ	ł		$\bigcirc$
	1		1		John D. Lin
<b>b</b>	ا ا		ا مىلىرىيە		Certificate No.
					7254 John S. Piper
ά <u>3</u> 30 660	990 1320 16	50 1980 2310 2840	2000 1500		Lea Co. FB. 10, Page 1 Sheet 8 of 8
(i) = Fd 2 o	r 3" Iron Pipe	with GLO Brass Cap	• • • • • • • • • • • • • • • • • • •	Iron Pipe with GLO B	rass Cap () = Staked Location

#### DRILLING PROGRAM

#### FEDERAL (USA) "J" WELL NO. 3

#### SURFACE DESCRIPTION:

This well is in an area known as the Querecho Plains. The Querecho Plains occurs in a region which is typified by undulating landforms which possesses both stabilized and unstabilized sand dunes, mesquite anchored-hummocks and hills. Vegetation consists mainly of shin oak, mesquite, sand sage, broom-snake weed, and range grasses.

FORMATION TOPS: Estimated KB Elevation: 3559'

Formation	Depth	Lithology	<u>Fluid Content</u>
Rustler Tansill Yates Capitan Reef Delaware (Cherry Canyon) Brushy Canyon- Pay Bone Spring	810' 2495' 2555' 2825' 4360' 6600' 7110'	Anhydrite, Salt Dolomite Sand, Dolomite Limestone, Dolo Sandstone, Shale Sandstone, Shale Limestone	Oil/Gas Oil/Gas Oil/Gas Oil/Gas

The base of the salt section is found around 2495'. No abnormal pressures or temperatures are anticipated to be encountered in this well. H2S is possible in this well. H2S RADIUS OF EXPOSURE: 100ppm = 19 feet, 500ppm = 9 feet, based on 400ppm and 180 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 typy 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 is is installed on a casing string and at least every 29 days, and operated at least once each 24-hour perion 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.

Intermediate Casing - Centralize the bottom 3 joints and above and below the DV tool.

Production Casing - Centralize bottom 600' every 3 joints.

### MUD PROGRAM:

Depth	Туре	Weight	<u>Viscosity</u>
0'-850'	Fresh Water	8.4	28
850'-4100'	Brine Water	10.0	29
4100'-6900'	Fresh Water	8.4	28
6900'-7200'	FW/Starch	8.4-8.6	29-33

#### LOGGING, TESTING:

GR-CAL-DSN-SDL and GR-CAL-DLL-MSFL surveys will be run.

A two-man Mud Logging Unit will be used from 4100' to 7200'.

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

· NO

YES

#### DRILLING CONTROL

# MATERIAL LIST - CONDITION II - B

A Texaco Wellhead

2

- B 30006 W.P. drilling spool with a 2" minimum flanged outlet for kill line and 3" minimum flanged outlet for choke line.
- C 30006 W.P. Dual ram type preventer, hydraulic operated with 1" steel, 30004 W.P. control lines (where substructure height is adequate, 2 - 30006 W.P. single ram type preventers may be utilized).
- D Rotating Head with fill up outlet and extended Blooie Line.
- 1.3.4. 2" minimum 30006 W.P. flanged full opening steel gate 7.8. valve, or Halliburton Lo Torc Plug valve.
  - 2" minimum 30005 W.P. back pressure valve.
- 5,6,9 3" minimum 3000f W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve.
- 12 3" minimum schedule 80, Grade "8", seamless line pipe.
- 13 2" minimum x 3" minimum 30008 W.P. flanged cross.
- 10,11 2" minimum 3000f 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 Flug valve.

					TEXACO, INC.	Û
SCALE	DATE	EST. NO.	ORG. NO.			
DALWN ST.		1			EXHIBIT C	
CHECKED BY		4		1		
APPROVED ET	i	1	<u></u>			