Form \$130-3 (July 1989) (formerly 9-331C) DEPARTMENT OF THE INTE BUREAU OF LAND MANAGEMEN			INTERIOR	CONTACT R OFFICE FOR OF COPIES RE (Other instruction reverse side)	BLM Roswell District Modified Form No. NM060-3160-2 5. LEASE DESIGNATION AND SERIAL NO. NM-59045				
APPLICA	TION FOR	PERMIT TO I	DRILL,	DEEPEN	, OR PLUG E	BACK	6. IF INDIAN, A	LLOTTEE	OR TRIBE NAME
1a. TYPE OF WORK			EEPEN		PLUG BAC		7. UNIT AGREEN	MENT NAM	IE
b. TYPE OF WELL	GAS 🗂			SINGLE ZONE		e ۲. ا	8. FARM OR LE	ASE NAM	E
2. NAME OF OPERAT		OTHER		ZUNE	3a. AREA CODE & PHO	ONE NO.	FEDE	ERAL (L	JSA) 'J'
		PRODUCTION IN	ю.		(915) 688-46	20	9, WELL NO.	`	
3. ADDRESS OF OPER					······································			4	
P. O. Box 3		nd, Texas 797					10. FIELD AND POOL, OR WILDCAT		
4. LOCATION OF WI At surface	ELL (Report location	clearly and in accom	dance with	any State requir	réments.*)		LUSK DELAWARE, WEST 11. SEC., T., R., M., OR BLK.		
1980' FSL 8		UNIT LETTER: J					AND SURVE	Y OR ARE	A
At proposed pro	od. zone						SEC 30	T_19	-S, R-32-E
	LES AND DIRECTION	FROM NEAREST TOWN	OR POST O	FFICE*			12. COUNTY OR		13. STATE
		AMAR, NEW ME					LEA		NM
15. DISTANCE FROM LOCATION TO NE		660'		16. MO. OF A	CRES IN LEASE	17. NO. OF		· · · ·	
PROPERTY OR LI	EASE LINE, FT. drig. unit line, if a				160		40		
18. DISTANCE FROM		P#		19. PROPOSED	DEPTH	20. ROTAR	0. ROTARY OR CABLE TOOLS		
OR APPLIED FOR	, ON THIS LEASE, F	T. 165	i0'		7200'		ROTARY		
21. ELEVATIONS (Sho	ow Whether DF, RT,	GR, ETC.)		Capitan C	ontrolled Water	r Raein	22. APPROX. DATE WORK WILL START *		
<u>GR-3538'</u>							MA	RCH 1,	1994
23.		PROPOS		NG AND CEM	ENTING PROGRA	.M			
HOLE SIZE	CASING SIZE	WEIGHT/FOOT	GI	RADE	THREAD TYPE	SETTI	NG DEPTH	A COLUMN THE OWNER	TITY OF CEMENT
17 1/2	16	65#		H-40	PE		40' AL BEDIN 850' C C. M. BREDIN		
14 3/4	11 3/4	42#		/C-40 C-50	ST&C		100'	1650 SACKS	
11 7 7/8	8 5/8 5 1/2	32# 15.5#		.J55,LS65	LT&C		7200' 1115 SACKS		755295
SURFACE CASIN CLASS C w/ 2% INTERMEDIATE (s, 10.1gw/s). DV TOOL @ 28(1.94f3/s, 10.1 PRODUCTION CA	G - 300 SACK 6 Cacl2 (14.8p CASING - 450 F/B 200 SAC 00' - 2nd STA 1gw/s). F/B 1 SING - 950 SA	CTOR - REDIMD S CLASS C w/ 4 pg, 1.34f3/s, 6 SACKS 35/65 P KS CLASS H w/ GE: 900 SACKS 00 SACKS CLAS CKS 35/65 POZ 50/50 POZ CLA	4% GEL, 6.3gw/s 0Z CLAS 1% Cac 35/65 I S H w/ CLASS	s). SHw/6% I2 (15.6ppg POZ CLASS 2% Cacl2 (1 Hw/6% GE	GEL, 5% SALT & g, 1.18f3/s, 5. H w/ 6% GEL, 9 I5.6ppg, 1.19f3 EL, 5% SALT &	& 1/4# F 2gw/s). 5% SALT 3/s, 5.2 1/4# FL	FLOCELE (12 , 1/4# FLOC gw/s). OCELE (12. E (14.2ppg, OPER. OC	2.8ppg CELE (* 8ppg, 1.35f; NRIO N	, 1.94f3/ 12.8ppg, 1.94f3/s,
					OTION PARA	Cubice			<u> </u>
THERE ARE NO	UTHER OPERAT	fors in this qu	AKIEK Q	VARIER SE		an na na star start start start st		DE <u>-</u> 식	1540
					8 , 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,		CHEF. DATE	-	3-3-94
					Allenter	 	APINO.	32)-1	175-37445
IN ABOVE SPACE DES If proposal is to drill if any.	CRIBE PROPOSED PRO I or deepen directio	GRAM: If proposal is nally, give pertinent o	to deepen lata on sub	orplug back, g surface location	ive data on present (is and measured and	productive : I true vertic	zone and propos at depths. Give	ed new j blowout	preventer program,
24.								•	
	E. P. Bashan	n/cwa	TITL		NG OPERATIONS	MANAGE	R DATE	01	-06-94
(This space for Fe	deral or State office	use)			<u></u>				
PERMIT NO									
APPROVED BY	APPROVAL, IF AND:	P. CBM	<u></u> Эт	10	REA MANAC	<u>FQ</u>	DATE	MAR	 1994

*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, Hobbe, NM 88240

<u>DISTRICT II</u> P. O. Drawer DD, Artesia, NM 8821D

DISTRICT III 1000 Rio Brazos Rd., Aztac, NM 87410 State of New Mexico Energy, Minerals and Natural Resources Department Form C-102 Revised 1-1-89

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

						IN-M No.
TEXACO EXP	LORATION AND	PRODUCTION Inc.	Federal (USA) "J"			Well No. 4
nit Letter	Section	Township	Range		County	
J	30	19-South	32-East	NMPM	Lea	
ctual Footage Loca	tion of Well:	· • • • • • • • • • • • • • • • • • • •				
1980	feet from the	South line an		feet from the	East	line
round level Elev.	Producing	Formation	Pool			-
3538	Delawar	e; Brushy Canyon	Lusk Delaware, W	est	l	40 Acres
1980 iround level Elev. 3538 1. Outline 2. If mor unitizat If answer this form	feet from the Producing Delaward to the acreage dedic the than one lease if the than one lease of tion, force-pooling, if necessary.	Formation e; Brushy Canyon arted to the subject well by co s dedicated to the well, outline of different ownership is dedice etc? No if answer is "ye where and tract descriptions we d to the well until all interests	Pool	est the plat below. hereof (both as to we of all owners been co i (use reverse side of unitization, unitization,	orking interest and insolidated by com f forced-pooling, c OPERATO J hereby on contained herein best of my brown Signeture December December SURVEYC J hereby certify on this plat was actual surveys n experience.	Dedicated Acreage: 40 Acres royalty). munitization, r otherwise) R CERTIFICATION rify shat the information is true and complete to the edge and belief. D. Macualty Iariott veyor & Prod.
	+ 		40 Ac.	• 1 2 •	Date Surveyed December 1 Signature & Seal Professional Surv Ocertificate No.	of
.		1650 1980 2310 2640	2000 1500 1000	500 0	7254 Jol	nn S. Piper . 10, Page 2

DRILLING PROGRAM

FEDERAL (USA) "J" WELL NO. 4

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: 3550'

Formation	<u>Depth</u>	<u>Lithology</u>	<u>Fluid Content</u>
Rustler Tansill Yates Capitan Reef Delaware (Cherry Canyon) Brushy Canyon- Pay Bone Spring	825' 2505' 2570' 2840' 4385' 6615' 7115'	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 2505'. 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.

BOP's on this well will not be tested by an independent service company since it will be drilled immediately following the Federal (USA) "J" Well No. 3. We will test the BOP and all components of the well control system with the rig pump.

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 I-B 3000 WP

FOR AIR DRILLING OR WHERE NITROGEN OR AIR BLOWS ARE EXPECTED

D 15 BLOOK LINE OR FLOW LINE RUTATIN FILL LINE D HEAD BLIND RAMS O C RAMS PPE 0 6 12 5 3 2 \mathbb{T} 8 KILL LINE BLIND FLANGE 4 W/RE-ENTRY VALVE



H2S TRIM REQUIRED

· NO

YES

DRILLING CONTROL

MATERIAL LIST - CONDITION II - B

- Texaco Wellhead ٨
- 30005 W.P. drilling speel with a 2" minimum flanged outlet for kill line and 3" minimum flanged outlet for choke line. в
- 30000 W.P. Dual ram type preventer, hydraulic operated with 1° steel, 30000 W.P. control lines (where sub-structure height is adequate, 2 300000 W.P. single ram type preventers may be utilized). С
- Rotating Mead with fill up outlet and extended Bloois D Line.
- 2" minimum 3000f W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve. 1,3,4,7,8,
- 2" minimum 3000# M.P. back pressure valve. 2
- 3" minimum 3000f W.F. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve. 5.6.9
-]" minimum schedule 30, Grade "B", seamless line pipe. 12
- 2" minimum x 3" minimum 30008 W.P. flanged cross. 13
- 2" minimum 3000# W.P. adjustable choke bodies. 10.11
- Cameron MuG Gauge or equivalent (location optional in choke line). 14
- 2" minimum 3000f W.F. flanged or threaded full opening steel gate valve, or Halliburton Lo Torc Plug valve. 15

	TEXACO, INC.	
SCALE DATE EST NO ORD NO	 EXHIBIT C	
C-#CALD 87		