Form 3160-3 (July 1989) (formerly 9-3	-	N/ CD-HOBBS OFFICE FOR NU UNITED STATES DEPARTMENT OF THE INTERIOR					BLM Roswell District Modified Form No. NMO60-3160-2		
						[5. LEASE DESIGNATIO	N AND SERIAL NO.	
		BUREAU	OF LAND MANA	GEMENT			NM-	59045	
APPLIC	ATION F	FOR PERMI	T TO DRILL	, DEEPEN	N, OR PLUG I	BACK	6. IF INDIAN, ALLOTT	EE OR TRIBE NAME	
1a. TYPE OF WORK b. TYPE OF WELL	DRILL	K	DEEPEN		PLUG BAC	ĸ□	7. UNIT AGREEMENT	NAME	
	GAS WELL			SINGLE ZONE			8. FARM OR LEASE		
2. NAME OF OPERA			· · · · · · · · · · · · · · · · · · ·		3a. AREA CODE & PH		FEDERAL (USA) 'J'		
TEXACO EX	PLORATIO	N AND PRODUC	CTION INC.		(915) 688-46	20	9. WELL NO.		
3. ADDRESS OF OPE	ERATOR		2						
P. O. Box	3109,	4	10. FIELD AND POOL, OR WILDCAT						
4. LOCATION OF W At surface 660' FSL 8		LUSK DELAWARE, WEST 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA							
At proposed p SAME				100		STATES AND		19-S, R-32-E	
14. DISTANCE IN M	ILES AND DIRI	E S I	12. COUNTY OR PARIS	H 13. STATE					
		MALJAMAR, N	EW MEXICO		<u> </u>	<u> </u>	LEA	NM	
15. DISTANCE FROM LOCATION TO N	PROPOSED*		385'	16. NO. OF A	CRES IN LEASE	17. NO. OF A TO THIS	CRES ASSIGNED		
PROPERTY OR L (Also to neares	EASE LINE, F it drig. unit li	T. ine, if any)	·		160		40		
18. DISTANCE FROM TO NEAREST W OR APPLIED FO	I PROPOSED L ELL, DRILLING R. ON THIS LI	OCATION* , COMPLETED, EASE, FT.	430'	19. PROPOSEI	D DEPTH 7200'	20. ROTARY	OR CABLE TOOLS	,	
21. ELEVATIONS (Sh			22. APPROX. DATE WORK WILL START *						
GR-3538'		MAY 15, 1993							
23.		 F	PROPOSED CASI	NG AND CEM	ENTING PROGRA	M	I. MAT IS	, 1993	
HOLE SIZE	CASING SI	ZE WEIGHT/	5007	RADE	THREAD TYPE	SETTR		ANTITY OF CEMENT	
17 1/2	16			H-40	PE	3514	40'	REDIMIX	
14 3/4	11 3/4			VC-40	ST&C	-	50'CIRCULATI		
11	8 5/8		r W	/C-50	LT&C		100°(tie back)1780 SACKS		

CEMENTING PROGRAM: CONDUCTOR - REDIMIX.

5 1/2

7 7/8

SURFACE CASING - 360 SACKS CLASS C w/ 4% GEL, 2% Caci2 (13.5ppg, 1.74f3/s, 9.1gw/s). F/B 200 SACKS CLASS C w/ 2% Caci2 (14.8ppg, 1.34f3/s, 6.3gw/s).

WC-50 & WC70

INTERMEDIATE CASING - 650 SACKS 35/65 POZ ČLASS H w/ 6% GEL, 5% SALT & 1/4# FLOCELE (12.8ppg, 1.94f3/ s, 10.1gw/s). F/B 200 SACKS CLASS H w/ 2% Caci2 (15.6ppg, 1.19f3/s, 5.2gw/s).

LT&C

7200' (tie back soo sacks

DV TOOL @ 2500' - 2nd STAGE: 830 SACKS 35/65 POZ CLASS H w/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.8ppg, 1. 94f3/s, 10.1gw/s). F/B 100 SACKS CLASS H w/ 2% Caci2 (15.6ppg, 1.19f3/s, 5.2gw/s). PRODUCTION CASING - 750 SACKS 35/65 POZ CLASS H w/ 6% GEL, 5% SALT & 1/4# FLOCELE (12. 8ppg, 1.94f3/s,

10.1gw/ s). F/B 150 SACKS 50/50 POZ CLASS H w/ 2% GEL, 5% SALT, 1/4# FLOCELE (14.2ppg, 1.35f3/s, 6. 3gw/s).

THERE ARE NO OTHER OPERATORS IN THIS QUARTER QUARTER SECTION.

15.5# & 17# ⁱ

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 preventer program, if any.

signed <u>C.P. Bachem/cwH</u>	TITLE	DRILLING OPERATIONS MANAGER	DATE	04-19-93
(This space for Federal or State office use)				
PERMIT NO.		_ APPROVAL DATE	······	
ADRIG, SGD.) RICHARD L. MANUS	TITLE	AREA MANAGER	DATE	JUN 21 1993
PPRUVAL SUBJECT TO IF ANY:			- VAIE -	
ENERAL REQUIREMENTS AND				
PECIAL STIPULATIONS *Soc	Instruc	tions On Reverse Side		
TTACHED ITLE 18 U.S.C. SECTION 1001, makes it a crime for any person kny	IIISUIUC Iowingiy au	SLIDITS OIL FLEVELSE SHOP	cv of the i	United States any false

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 octitious 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 I P.O. Box 1980, Hobbs, NM 88240

DISTRICT II P.O. Drawer DD, Artesia, NM 88210 State of New Mexico Emergy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410

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

Operator								TOTI UNO		Doundaries of 1	ne section		
Texaco 1	Expl	ora	tio	n an	d P	roć	luction		der	al (USA)	", <u>,</u> "		Well No. 2
Unit Letter	Sectio			Town				Range					
P		30		10.44	19-	Sou	ith	vanke	32	2-East		County	Lea
Actual Footage Loc	ation of	Well:		<u> </u>			······································	L			NMI	M.	
660	feet fr	om the	S	outh	L		line and	38	5		for at for	Eas	t
Ground level Elev.			oducia	g Forma	lion			Pool				om the	Dedicated Acreage:
3538		Del	awa	re/B	rus	hy	Canyon	Lus	k D	elaware,	West		40
1. Outlin	e the acr	eage de	dicated	to the s	nubject	well b	by colored per	cil or hac	bure m	narics on the plat h	wiow.		Acres
2. If mor	ne than of	ne ican	is ded	icated to	the w	ell, ou	tline each and	identify t	he ow	nempip thereof (b	oth as to wo	rking interest ar	d musicul
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unitiza	tion, for	CO-DOO	ing. etc	areal of ;?	VIDUTIAL	ршо	edicated to the	well, hav	e lhe :	interest of all own	eus pees cos	nolidated by co	mmunitization,
	Yes	-		No	lí	f answ	ver is "yes" typ	e of cons	olidati	on			
if answer this form	r is "do" if necce	list the	OWDER	s and tra	ct desc	ription	ns which have	actually b		onsolidated. (Use	reverse side	of	
No allow	able wil	l be as	igned t	o the we	untii	all in	leresis have be		idated		lion Initizat	han formed and	ling, or otherwise)
or until a	DOG-SLA	ndard u	nit, elir	ninating	such i	nlere st	, has been app	woved by	the D	ivision.		doll, 101080-p00	mile, or otherwise)
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		Ì				Ē				İ	Ĩ	L hereby car	tify that the well location show
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○Fd. 1" I. Pipe w/GLO BC. ◎Fd. 2 or 3" I. Pipe w/GLO BC. Plugged Well.

DRILLING PROGRAM

FEDERAL (USA) "J" WELL NO. 2

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: 3548'

Formation	Depth	Lithology	<u>Fluid Content</u>
Rustler	850 ′	Anhydrite, Salt	
Tansill	2430′	Dolomite	
Yates	2595 ′	Sand, Dolomite	Oil/Gas
Capitan Reef	2865 ′	Limestone, Dolo	
Delaware (Cherry Canyon)	4600 ′	Sandstone, Shale	Oil/Gas
Brushy Canyon- Pay	6975 ′	Sandstone, Shale	Oil/Gas
Bone Spring	7150′	Limestone	

The base of the salt section is found around 2430'. No abnormal pressures, temperatures, or hazardous gases are anticipated to be encountered in this well.

PRESSURE CONTROL EQUIPMENT:

A 3000 psi Dual Ram typy preventer with rotating head will be used. (See Exhibit C). 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.

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.

Production Casing - Centralize every other joint on bottom 360'.

