							372-07	25-	32383
Form \$160–3 (July 1989)					OFFICE FOR M	DUIRED		l District m No.	
(formerly 9-331C) UNITED STATES Control of Characteristics on DEPARTMENT OF THE INTERIOR STATES CONTROL AND SERIAL NO.						SERIAL MO. (TIL)			
						ACK	6. IF INDIAN, AL	M-143	32 .
APPLICA	TION FOR P	PERMIT TO D	RILL,	DEEPEN		_	7. UNIT AGREEM		
b. TYPE OF WELL	DRILL 🛛	DE	EPEN [_			
	GAS K	OTHER		SINGLE ZONE	MULTIPLE ZONE		8. FARM OR LEA		FEDERAL
2. NAME OF OPERAT		PRODUCTION IN	. (p)	23517	(915) 688-462		9. WELL NO.	-33-	FEDERAL
3. ADDRESS OF OPE	RATOR				1. Section		10. FIELD AND F	2	WILDCATZ - 0 1 1 1
P. 0. Box		nd, Texas 797 clearly and in accord		any State require	HONPAS.*)				MORROW_
At surface		UNIT LETTER: I			Vo. 9		11. SEC., T., R., AND SURVEY		
At proposed pr				rido x	8 ICO		SFC 33.	T-21-	S, R-32-E
SAME	LES AND DIRECTION F	TOM NEAREST TOWN	R POST OF	FICE OF			12. COUNTY OR		13. STATE
30.4 MILES	WEST OF EUN	CE, NEW MEXIC		No.	7	717. NO. OF	ACRES ASSIGNED		<u>NM</u>
15. DISTANCE FROM LOCATION TO NI PROPERTY OR L	EASE LINE. PT.	2310'		16. NO. OF #	799.29		S WELL		
AD DICTANCE EDOM	t drig. unit line, if a PROPOSED LOCATION	*		19. PROPOSED		20. ROTAL	Y OR CABLE TOOL	.s	
	R, ON THIS LEASE, FI	the second se			14950'			TARY	K WILL START *
21. ELEVATIONS (Sh GR-3746'	ow Whether DF, RT,	GR, ETC.)							0, 1993
23.		PROPOSE	D CASIN	G AND CEM	ENTING PROGRA	M	Secretary's	s Poto	ish
HOLE SIZE	CASING SIZE	WEIGHT/POOT	GF	ADE	THREAD TYPE	SETT	ING DEPTH		TY OF CEMENT
17 1/2	13 3/8	54.5#	-	(-55	STC		825 CIRCULATE 760 SACKS		
12 1/4	95/8	40# & 36#		K-55,S80	LT&C		2300'		0 SACKS
8 3/4	7	26#	P-1		FL4		4950'		5 SACKS
6 1/8	' 5 LINER	' 18 #	-	-95		•	4000		
CEMENTING PROGRAM: CONDUCTOR - SET 20 inch, 94# @ 40' - REDIMDX. SURFACE CASING - 600 SACKS CLASS C w/ 4% GEL & 2% Cacl2 (13.5ppg, 1.74f3/s, 9.1gw/s). F/B 160 SACKS CLASS C w/ 2% Cacl2 (14.8ppg, 1.34f3/s, 6.3gw/s). 1st INTERMEDIATE - 1500 SACKS 35/65 POZ CLASS H w/ 6% GEL, 5% SALT & 1/4# FLOCELE (12.8ppg, 1.94f3/s, 10.4gw/s). F/B 300 SACKS CLASS H (15. 6ppg, 1.18f3/s, 5.2gw/s). 2nd INTERMEDIATE - 1st STAGE: 500 SACKS 35/65 POZ CLASS H w/ 6% GEL, 5% SALT & 1/4# FLOCELE (12. 8ppg, 1.94f3/s, 10.4gw/s) F/B 150 SACKS CLASS H w/ .1% D800 RETARDER (15.6ppg, 1.18f3/s, 5.2gw/s). DV TOOL @ 8500. 2nd STAGE: 1150 SACKS 35/65 POZ CLASS H w/ 6% GEL, 5% SALT & 1/4# FLOCELE (12.8ppg, 1.94f3/s, 10.4gw/s). F/B 100 SACKS CLASS H (15.6ppg, 1.18f3/s, 5.2gw/s). LINER - 265 SACKS CLASS H w/ 5% SALT, .3% FLUID LOSS, .1% RETARDER (15.6ppg, 1.20f3/s, 5.2gw/s). LINER TOP @ 11800' - 260 SACKS CLASS H w/ 5% SALT, .3% FLUID LOSS, .1% RETARDER (15.6ppg, 1.20f3/s, 5. 2gw/s). THERE ARE NO OTHER OPERATORS IN THIS QUARTER QUARTER SECTION. *LOCATION WAS MOVED FROM THE 'NOTICE OF STAKING' LOCATION BECAUSE OF A PIPELINE.									
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 S. & Broham/CWH TITLE DRILLING OPERATIONS MANAGER DATE 10-29-93									
(This space for F	ederal or State offici	a use)							

-

PERMIT NO.	APPROVAL DATE	
APPROVATED BY LS KATH EATON	me Acting State Di	rectogate 12-27-93
APPROVATION DOES NOT W	ARRANT 0	GENERAL REQUIREMENTS AND
OR CERTIFY THAT THE APPLICANT HOLDS LE	EGAL OR	SPECIAL STIPULATIONS
EQUITABLE TITLE TO THOSE RIGHTS IN THE S LEASE WHICH WOULD ENTITLE THE APPLIC	SUBJECT	ATTACHED
CONDUCT OPERATIONS THEREON		of the United States nov false

CONDUCT OPERATIONS THEREON for the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Submit to Appropriate District Office Stote Lease-4 copies Fee Lease-3 copies

DISTRICT_1 P. 0. Box 1980, Hobbs, NM 88240

DISTRICT II P. O. Drower DD, Arteela, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Artec, 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

TEXAGO EXPLICATION AND PRODUCTION Inc. BILBREY '33' FEDERAL 2 Number 32-East Number Lea Action reception and the sector of Well 32-East Number Lea 3746 Action reception for Well Internet of the sector of Well Sector reception for Well Sector reception for Well Number 3746 Action reception for Well Internet of the sector	Operator	. <u>.</u>		Leose		Well No.	
K 33 21-South 32-East wuru Lea round form Watch Training Leader Ballancy, Adapter/Billancy, Monrow Beautiful Arringet 3746 Adoptor formation Ballancy, Adapter/Billancy, Monrow 320 Acres 1. Outing the carses dedicated to the well outine such and leading the semanths thread of the box. 2.1 if man that easies is dedicated to the well outine such and leading the semanths thread of the origin in the semanths thread of the semanthand of the semanths the sem					EDERAL		
		1					
Stand Heil Else. Producting Formation Feat Dedicated Arcsege: 3746 Arboker/Morrow 320 Acces 320 Acces 1. Outline the accrosp dedicate to the subject well by correct and an induce monte on the pict basis. 320 Acces 320 Acces 2. if mare than one tease is dedicated to the seti, cultine acch and identify the semantip thereof (toth as to working interest and royoth). 3. if mare than one tease of afferent centrable is decided to the seti, cultine acch and identify the semantip thereof (toth as to working interest and royoth). 3. if mare than one tease of afferent centrable is decided to the seti, could accessification Interest of afferent centrable is decided to the seti, could accessificate it or consolidated (use rewrite side of the accessite accessificate it or more than one decide accessificate it or consolidated (use rewrite side of the central accessificate it or thereits). Interest to the accessificate it or thereits it or basis. 0 and a non-accessificate it to the seti until all interest to the basis approved by the basis. Interest accessificate it or thereits it or basis. Interest accessificate it or the accessificate it or the seti or the set or the accessificate it or the set or the accessificate it or the ac							
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1. Outline the activate addicate to the subject will by colored pennil or hadrow mores on the pith bears. 2. If more than one lease is dedicated to the well, outline such and identify the ownership thereof (both as to working interset and royothy). 3. If more than one lease of different ownership is dedicated to the well, here the interset of of owners been consolidated by communitation. If more than one lease of different ownership is dedicated to the well, here the interset of of owners and node description which non-actually beam consolidated (use reverse side of the owners of board owners and post description which non-actually beam consolidated (use reverse side of the ownership the different ownership the black. If there is the owner out operating activity that be the been approved by the Deletion. OPERATOR CERTIFICATION 1 is they outly that the statements been approved by the Deletion. OPERATOR CERTIFICATION 1 is they outly that the statement of all owners and the statement of the ownership the different ownership that the statement of the ownership the different ownership the different ownership that the statement of the ownership that the statement of the ownership that the statement ownership the ownership that the statement ownership that the s		-		1			
2. If more then one lease is dedicated to the well, outline each and identify the extremention there is the verting interest and royably. 3. If more than one lease of different connections is the first of an extended by the deconsolitation I and the provided of the set of th						* 320	Acres
OPERATOR CERTIFICATION I horeby conflyty that the information ordened here is the and complete is the best of my broukings and helds: Significant Protect is the and complete is the British there and complete is the Royce D. Mariott Protect D. Mariott Protec	2. If mor 3. If mor unitiza If answer this form No allow	re than one lease tion, force-pooling, Yes Is "no" list the o if necessary	is dedicated to the well, ou of different awnership is de etc? No If answer is wners and tract descriptions d to the well until all inter	tline each and identify the ownershi dicated to the well, have the interes "yes" type of consolidation s which have actually been consolid ests have been consolidated (by con	p thereof (both as to wa at of all owners been co sted (use reverse side of mmunitization, unitization,	nsolidated by communitization.	
1 Arreby certify that the information excluded harms to the undersentiate to the ended of the undersentiate to the ended of the undersentiate to the ended of the undersentiate Signification Parities there Reyce D. Mariott Position Division Surveyor Company Texaco Expl. & Prod. Inc. Date Date Det Surveyed Excloser 29, 1993 SURVEYOR CERTIFICATION 1 Arreby certify that the well isosten shows m his plat was plated from full ones of whether and the plat was plated from full ones of the plat was plated from					<u> </u>		ION
2310 2310 Date Surveyed Date Surveyed Date Surveyed Date Surveyed Date Surveyed Signature & Seal of Professional Surveyor Certificate No.	· · · · · · · · · · · · · · · · · · ·		33			I hereby certify that the inform contained herein is true and complet best of my knowledge and belief. Signofurk Printed Name Royce D. Marlott Position Division Surveyor Company Texaco Expl. & Prod. If Date October 29, 1993 SURVEYOR CERTIFICAT I hereby certify that the well location on this plat was plotted from field to actual surveys made by me or under	nation is to the
0 330 560 990 1320 1650 1960 2310 2640 2000 1500 1000 500 0				J.		bekief: Date Surveyed Date Surveyed Signature & Seal of Professional Surveyor Certificate No.	

DRILLING PROGRAM

BILBREY "33" FEDERAL WELL No. 2

SURFACE DESCRIPTION:

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> The land surface in the area is relatively level with small and moderate sand dunes. Regionally, the land slopes to the Northeast with average slopes of less than two percent. The top soil is a deep sandy loam. Vegetation consists mainly of scrub oak, mesquite, and range grasses.

FORMATION TOPS: Estimated KB Elevation: 3760'

Rustler740'Anhy, SaltBase of Salt4315'SaltLamar4740'Shale, LsDelaware4890'SandstoneOilBone Spring8740'Sandstone, LsOilWolfcamp11915'Limestone, ShaleGasStrawn13195'LimestoneGasAtoka13340'Sandstone, ShaleGas	Formation	<u>Depth</u>	Lithology	<u>Fluid Content</u>
Morrow	Base of Salt Lamar Delaware Bone Spring Wolfcamp Strawn	4315' 4740' 4890' 8740' 11915' 13195'	Salt Shale, Ls Sandstone Sandstone, Ls Limestone, Shale Limestone	Oil Gas Gas

The base of the salt section at 4315'. Pressures are normal for the area which means a +/- 8.4 PPG EMW pore pressure down to the top of the Strawnl then increasing to a +/- 12.0 PPG EMW pore pressure in the Strawn, Atoka, and Morrow. No abnormal temperatures or hazardous gases are anticipated.

PRESSURE CONTROL EQUIPMENT:

A 3000 psi (or 5000 psi/10000 psi at drilling contractor's option) Dual Ram BOP with rotating head and annular preventer (See Exhibit E) will be installed after surface casing is set. A 5000 psi (or 10000 psi at drilling contractor's option) Dual Ram BOP with rotating head and annular preventer will be used. (See Exhibit F-1). It will be installed after the first intermediate casing is set. A 10000 psi Dual Ram BOP with rotating head and annular preventer (See exhibit G-1) will be installed after the second intermediate 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. Bilbrey "33" FEDERAL WELL No. 2

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.

First Intermediate Casing - Centralize the bottom 3 joints.

Second Intermediate Casing - Centralize the bottom 5 joints and above and below the DV tool at 8500'.

Production Liner - None Required.

MUD PROGRAM:

Depth	Туре	<u>Weight</u>	Viscosity
0'-825'	Fresh Water	8.4	28
825'-4740'	Brine	10.0	29
4740'-12300'	Fresh Water	8.4	28
12300'-13000'	Fresh Water	8.4	28
13000'-14950'	FW Polymer	11.0	40

LOGGING, TESTING:

GR-DSN-CDL, GR-DIL-SFL, and GR-FWS surveys will be run.

A two-man Mud Logging Unit will be used from 4740' to 14950'.

No drill stem tests are planned.

No cores will be taken.



