Form 3160-3 (December 1990)

CONDITIONS OF APPROVAL, IF ANY:

DRAWER DD ARTESIA NAME

THE OIL COME TO	OPER, CGRID NO.	2235/
NM OIL CONS	PROPERTY NO	11072
DRAWER DD	POOL CODE 53	3817

FORM APPROVED Budget Bureau No. 1004-0136

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	BUREAU O	F EFF. DATE	0-25-94	Expires: Dece	mber 31, 1991
SUBMIT IN TRIPLICATE			025-32712	5. Lease Designation and	
				=	NM 18848
A	PPLICATION FOR	PERMIT TO DRILL	OR DEEPEN	6. If Indian, Alottee or Tril	pe Name
1a. Type of Wor	DRILL 🛛 D	EEPEN		7. If Unit or CA, Agreeme	nt Designation
1b. Type of Well		_	SINGLE ZONE		
OIL GAS	OTHER		MULTIPLE ZONE	8. Well Name and Number SDE PEDERAL '18'	1-10
AAETT AAETT	- OTHER			SUE PEDERAL 10 J	e doras
2. Name of Operator	TEXACO EXPLO	RATION & PRODUCTIO	N INC.	6	
3. Address and Telepho	P.O. Box 3109, M	idland Texas 79702	688-4606	9. API Well No.	
4. Location of Well (Rep	ort location clearly and in	accordance with any State	requirements.*)	10. Field and Pool, Exploa	ratory Area
At Surface				SAND DUNES EAST	
Unit Letter K : 198	0 Feet From The SO	UTH Line and 1980	Feet From The WEST Line	11. SEC., T., R., M., or B	K and Survey or Area
At proposed prod. zone				11. 520., 1., 10., 11., 01 5	
		SAME		Sec. 18, Township	23-S , Range 32-E
14. Distance In Miles and I	Direction from Nearest Town	or Post Office*		12. County or Parish	13. State
		ST OF LOVING, NM.		LEA	NM NM
15. Distance From Propos Lease Line, Ft. (also to nec	ed* Location to Nearest Prop arest drig. unit line, if any)	perty or 660'	16. No. of Acres in Lease 1994.13	17. No. of Acres Assigned	40
18. Distance fFrom Propos Completed or Applied For,	sed Location* to Nearest We On This Lease, Ft.	li, Drilling, 1188'	19. Proposed Depth 8700'	20. Rotary or Cable Tools	R
21.Elevations (Show wheth		GR-3578° C	arisbad Controlled Wate		ox. Date Work Will Start*
23		PROPOSED CAS	ING AND CEMENT PROGR	RAM	
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY	OF CEMENT
14 3/4	WC40, 11 3/4	42#	945'	550 SACKS - CIRCULA	TE
11	WC50, 8 5/8	32#	4550'	1450 SACKS - CIRCULA	ATE
7 7/8	J-55, 5 1/2	15.5# & 17	8700'	1600 SACKS - CIRCUL	ATE
CEMENTING PROGRA	MM:	ı			
PPG, 1.34 CF/S, 6.3 GV	W/S).	POZ CLASS H W/ 6% G	3.5 PPG, 1.74 CF/S, 9.11 GW/S SEL, 5% SALT, 1/4# FLOCELE (
TOOL @ 6300'. 2ND S	G - 1ST STAGE - 750 SA TAGE - 750 SACKS 35/6 PPG, 1.18 CF/S, 5.2 GV	65 POZ CLASS H W/ 6%	H W/ 2% GEL, 5% SALT, 1/4# GEL, 5% SALT, 1/4# FLOCELI	FLOCELE (14.2 PPG, 1.3 E (12.8 PPG, 1.94 CF/S, 1 mail Subject to	5 CF/S, 6.3 GW/S). DV 0.4 GW/S). F/B 100
THERE ARE NO OTHER OPERATORS IN THIS QUARTER QUARTER SECTION. Section 1 (1) and 1 (2) and 2 (2) and 3 (2) and 3 (3) and 3 (3) and 3 (4)					
In Above Space Describ to drill or deepen direct	ne Proposed Program: If project ionally, give pertinent data	oposal is to deepen, give on subsurface locations a	data on present productive zone a and measured true verticle depths	nd proposed new productiv . Give blowout preventer p	e zone. If proposal is rogram, if any.
24. I hereby certify that the foreg	oing is true and correct	. / . TITLE [Orilling Operations Mgr.	DAT	ΓE 9/8/94
SIGNATURE	<u>۲. ۱۲ ممکر</u> C. P. B		<u> </u>		
TYPE OR PRINT NAME					
DEDMIT NO			APPROVAL DATE		
PERMIT NO	t warrant or certify that the annii	cant holds legal or equitable title	to those rights in the subject lease which	would entitle the applicant to con	duct operations thereon.
APPROVED BY	moths 9.0	Brien TITLE AL	IVILAREA MANAGER	DATE	10-14-94

DISTRICT 1 P. O. Sex 1980, Hobbs, NM 88240

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994

Instructions on back

P. O. Orawer DD, Artesia, NM 88210

DISTRICT III

OIL CONSERVATION DIVISION P0 Box 2088 Santa Fe, NM 87504-2088

Submit to Appropriate District Office

AMENDED REPORT

DISTRICT IV O. Box 2088, Santa Fe, NM 87504-2088

1000 Rin Brazos Rd., Aztec, NM 87410

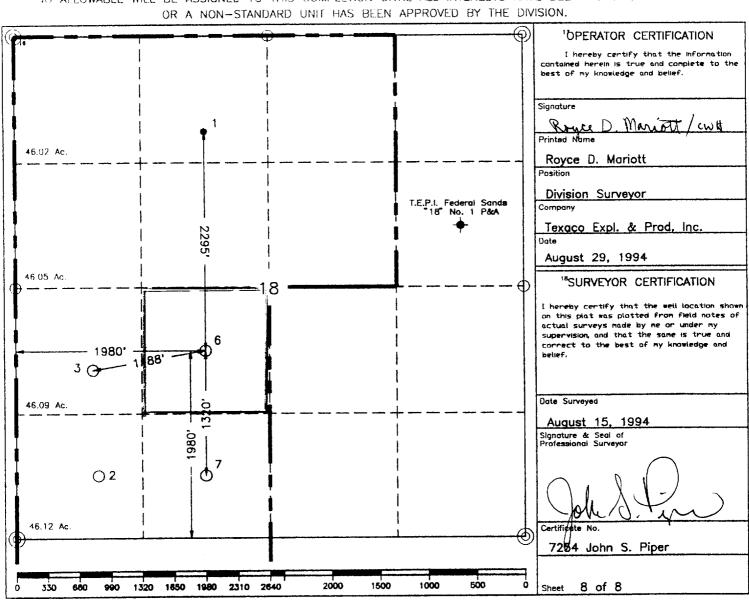
State Lease-4 copies Fee Lease-3 copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

3D-025-	32712 53817	SAND DUNES EAST De la ware	·e
Property Code		⁵ Property Name E FEDERAL "18"	⁸ Well Number 6
OGRID No.	**Sperator Name ** Elevation TEXACO EXPLORATION & PRODUCTION, INC. 3578*		

·					10 Surface L	ocation			
Di or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	⁷ County
к	18	23-S	32-E		19 80'	South	1980'	West	Lea
L			'' В	ottom Hol	e 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
1-Dedicated Acres	¹³ Joi	nt or Infill	¹ Con so lic	ation Code	¹⁵ Order No.				

TO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED



🔾 = Staked Location • = Producing Well 🎤 = Injection Well 💀 = Water Supply Well 💠 = Plugged & Abandon Well O = Found /4 Section Corner, 1" Iron Pipe & GLO B.C. - Found Section Corner 2 or 3" from Pine & GLO B.C.

DRILLING PROGRAM

SDE FEDERAL '18' WELL NO. 6

SURFACE DESCRIPTION:

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

FORMATION TOPS: Estimated KB Elevation: 3588'

Formation	<u>Depth</u>	<u>Lithology</u>	Fluid Content
Rustler	930'	Anhydrite, Salt	
Salado	1245'	Salt	
Delaware Mtn Group	4640'	Sandstone, Shale	Oil/Gas
Cherry Canyon	5550 '	Sandstone, Shale	Oil/Gas
Brushy Canyon- Pay	7200 '	Sandstone, Shale	Oil/Gas
Lower Brushy Canyon- Pay	8240'	Sandstone, Shale	Oil/Gas
Bone Spring	8580 '	Limestone	

The base of the salt section is found around 4390'. No abnormal pressures or temperatures are anticipated to be encountered in this well. H2S is possible in this well. H2S RADIUS OF EXPOSURE: 100ppm = 23 feet, 500ppm = 11 feet, based on 800ppm and 115 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.

Production Casing - Centralize bottom 500' every other cplg. and above and below the DV tool.

MUD PROGRAM:

Depth	Type	Weight	<u> Viscosity</u>
0'-945'	Fresh Water	8.4	28
945'-4550'	Brine Water	10.0	29
4550'-6500'	Fresh Water	8.4	28
6500'-8700'	FW/Starch	8.4-8.7	29-33

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.

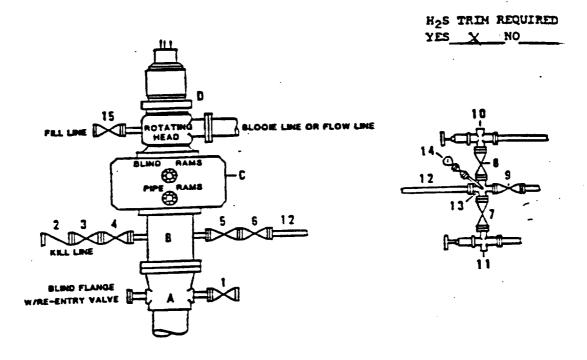
A two-man Mud Logging Unit will be used from 4400' to 8700'.

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

A	Texaco	Wellhead
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- 3 Joses W.P. drilling spool with a 2" minimum flanged outlet for kill line and 3" minimum flanged outlet for choke line.
- C 30008 W.P. Dual ram type preventer, hydraulic operated with 1° steel, 30008 W.P. control lines (where substructure height is adequate, 2 30008 W.P. single ram type preventers may be utilized).
- D Rotating Head with fill up outlet and extended Blosie
- 1.3.4. 2" minimum 30000 M.P. flanged full opening steel gate 7.8. valve, or Halliburton Lo Torc Plug valve.
- 2 2" minimum 30006 W.P. back pressure valve.
- 5.6.9)* minimum 30000 W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve.
- 12 3" minimum schedule 80, Grade "8", seamless line pipe.
- 12 2" minimum x 3" minimum 30008 W.P. flanged cross.
- 10,11 2" minimum 30006 W.P. adjustable choke bodies.
- Cameron Hud Gauge or equivalent (location optional in choke line).
- 2" minimum 30008 W.P. flanged or threaded full opening steel gate valve, or Halliburton Lo Torc Plug valve.



TEXACO, INC.



SCALE DATE EST NO DRG. NO.

CHECKED BY

EXHIBIT C