AN DEMOND NOT	スペック [4			
elogich be	15867							
101.100€ 5	3917		DR			FORM APP		
^	D-1		NT		i .	dget Bureau N		
F. DATE 10-2	21-94				B	pires: Decem	Der 31, 1991	
140 3D-025	-32707			: :	5. Lease Desig		rial No. // 18848	
A	PPLICATION FOR F	PERMIT TO DRILL	OR DEEPEN		6. If Indian, Al	ottee or Tribe	Name	
	DRILL DE	EEPEN 🗌			7. If Unit or CA	A, Agreement	Designation	
1b. Type of Well OIL F☑ GAS	_		SINGLE ZONE	\boxtimes	8. Well Name	and Number		
WELL WELL	U OTHER		MULTIPLE ZONI		SDE PEDER		ederal	
2. Name of Operator	TEXACO EXPLOR	ATION & PRODUCTIO	N INC.],	m	2	
3. Address and Telepho	ne No. P.O. Box 3109, Mic	dland Texas 79702	688-4	1606	9. API Well No	•		
4. Location of Well (Rep	ort location clearly and in a	ccordance with any State	e requirements.*)					
At Surface					10. Field and P		cory Area	
Unit Letter D : 660	Feet From The NOR	TH Line and 660	Feet From The WEST	Line		<i>U</i>	elawar	<u>e</u>
At proposed prod. zone		CAME					and Survey or	
		SAME			Sec. 19,	Township	23-S Range	32-E
14. Distance in Miles and E	Direction from Nearest Town o	r Post Office* T OF LOVING, NM.			12. County or I	Parish	13. State	
15. Distance From Propose	ed* Location to Nearest Prope	<u>.</u>	16. No. of Acres in Lease	B	LEA 17. No. of Acres	Assigned To	NM This Well	
Lease Line, Ft. (also to nea	arest drig. unit line, if any)	660'	1994.13			46.17	,	
18. Distance fFrom Propos Completed or Applied For,	ed Location* to Nearest Well, On This Lease, Ft.	Drilling, 1320'	19. Proposed Depth 8700'		20. Rotary or Ca	ble Tools R		
21.Elevations (Show wheth	er DF,RT, GR, etc.)						Date Work Will S	Stort*
	GI	R-3583'	Carisbad Controll	ed Wat	er Basin	LE. Approx.	10/15/94	PLOEF L
23	A	PROPOSED CAS	NG AND CEMENT	PROGR	AM			
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DE	PTH	1	O YTITHAUD	CEMENT	
4 3/4	WC40, 11 3/4	42#	945'		550 SACKS - CIRCULATE			
11	WC50, 8 5/8	32#	4550'		1450 SACKS - CIRCULATE			
7 7/8	J-55, 5 1/2	15.5# & 17	8700'		1600 SACKS	- CIRCULATE		
EMENTING PROGRA	M:							
PPG, 1.34 CF/S, 6.3 GV NTERMEDIATE CASIN	50 SACKS CLASS C W/ 45 V/S). IG - 1300 SACKS 35/65 PC PPG, 1.18 CF/S, 5.2 GW/5	OZ CLASS H W/ 6% GI						(14.8
Tool 🙋 6300'. 2ND st	6 - 1ST STAGE - 750 SAC TAGE - 750 SACKS 35/65 PPG, 1.18 CF/S, 5.2 GW/9	POZ CLASS H W/ 6%	H W/ 2% GEL, 5% SAL GEL, 5% SALT, 1/4# F	LOCELE	(12.8 PPG, 1.9	4 CF/S, 10.4	F/S, 6.3 GW/S GW/S). F/B 10). DV X 0
THERE ARE NO OTHE	R OPERATORS IN THIS (QUARTER QUARTER	SECTION.	€ .	oval Subj Posi Requi Trisi Stipul Tohad	romanis i	ınd	
In Above Space Describe to drill or deepen directio	Proposed Program: If propo enally, give pertinent data or	osal is to deepen, give da n subsurface locations ar	ita on present productive id measured true verticle	zone and depths.	d proposed new Give blowout pr	productive zo eventer progr	ne. If proposal am, if any.	is
24. I hereby certify that the foregoi	ng is true and correct	n	rilling Operations I	Mar				
SIGNATUREC	. P. Bashem/cw		Tilling Operations i	viyi .		DATE _	9/7	7/94
TYPE OR PRINT NAME	C. P. Bas	ham						
This space for Federal or State offi	ce use)						<u>-</u>	
PERMIT NO	warrant or certify that the applicant		APPROVAL DATE	see which	nuld antitle #	ionat to see don't		
APPROVED BY 10	My Kauer	TITLE (ANAGER	DATE	operations thereon. $\frac{70}{2}$	/
Title 18 U.S.C. Section 1001, representations as to any matt	makes it a crime for any person kn er within its jurisdiction.	owingly and willfully to make to	o any department or agency of	the United	States any false, fict	itious or fraudule	ent statements or	

DISTRICT 1 © 0 Box 1980, Hobbs, NM 88240

DISTRICT III

DISTRICT II 9 O. Orawer DO, Artesia, NM 88210

1000 Pio Brazos Rd., Aztec, NM 87410 DISTRICT IV

P. O. Pox 2088, Santa Fe. NM 87504+2088

State of New Mexico Energy, Minerals and Natural Resources Department

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

Form C-102 Revised February 10, 1994

Instructions on back

Submit to Appropriate District Office

State Lease-4 copies Fee Lease-3 copies

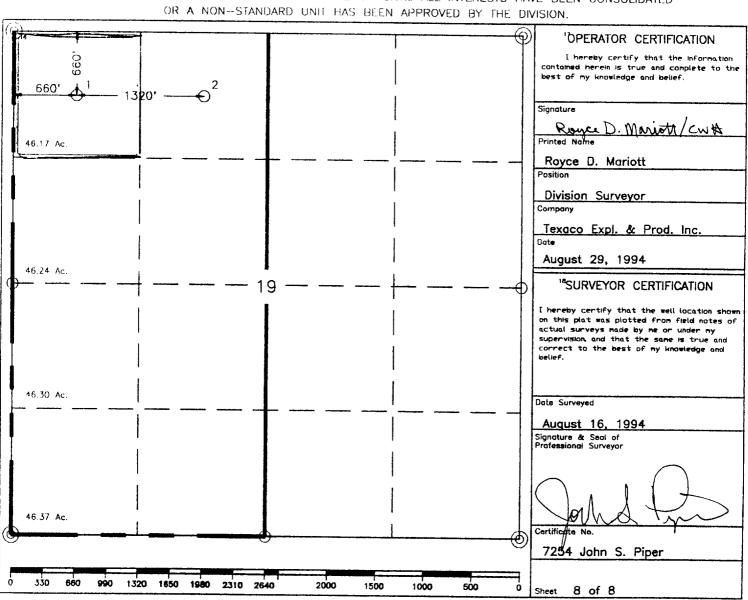
MENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Num	her 2D-10 /	
30-025-	32707 53817 SANDS DUNES EAST Delawar	-0
15867	SP FEDERAL "19"	Well Number
OSRID No.	**Operator Name TEXACO EXPLORATION & PRODUCTION, INC.	Elevation 3583'

UL or lot no.	Section 19	Township 23-S	Range 32-E	Lot Idn	Feet from the 660°	North/South line North	Feet from the 660'	East/West line West	⁷ County Lea
Bottom Hole Location If Different From Surface									
Ui, or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	⁷ County
Dedicated Acres 46.17	13 Jai	nt or Infill	¹ Con so tio	ation Code	¹⁵ Order No.	I	<u> </u>	<u></u> j	

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



O = Staked Location • = Producing Well = Injection Well • = Water Supply Well • = Plugged & Abandon Well

(O) = Found Section Corner, 2 or 3" Iron Pipe & GLO B.C. O = Found /4 Section Corner, 1" Iron Pipe & GLO B.C.

DRILLING PROGRAM

SDE FEDERAL '19' WELL NO. 1

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: 3593'

Formation	<u>Depth</u>	Lithology	Fluid Content
Rustler	930 1	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.

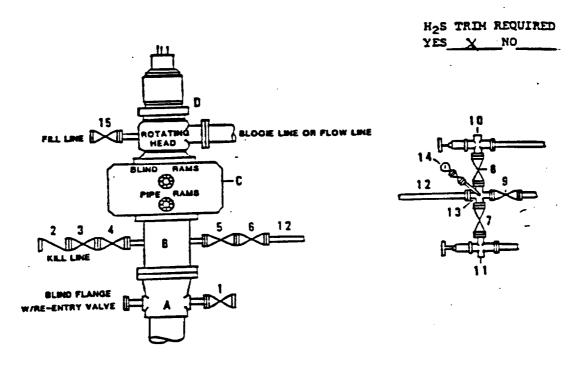
A two-man Mud Logging Unit will be used from 4400' to 8700'.

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

• .	30006 W.P. drilling speel with a 2" minimum flanged outlet for kill line and 3" minimum flanged outlet for choke line.
c	3000f M.P. Dual ram type preventer, hydraulic operated with 1° steel, 3000f M.P. control lines (where sub- structure height is adequate, 2 - 3000f M.P. single ram type preventers may be utilized).
D	Rotating Mead with fill up outlet and extended Blooie

- 1.3.4. 2" minimum 30006 M.P. flanged full opening steel gate 7.8. valve, or Halliburton Le Torc Plug valve.
- 2 2" minimum 30004 W.P. back pressure valve.

Texaco Wellhead

- 5,6,9 J= minimum 30000 W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve.
- 3" minimum schedule 80, Grade "S", seamless line pipe.
- 2" minimum x 3" minimum 30008 W.P. flanged cross.
- 10,11 2" minimum 3000# W.P. adjustable choke bodies.
- 14 Cameron Nud Gauge or equivalent (location optional in choice line).
- 2" minimum 3000% W.P. flanged or threaded full opening steel gate valve, or Halliburton Lo Torc Plug valve.



TEXACO, INC.



SCALE DATE EST. NO. DRG. NO.

EXHIBIT C