	NH GIL COM)		
	DRAWER D	OPER. OGRIE		51			
	ARTESIA, Nu UNI		0.1072				
Form 3160-3		NT POOL CODE	EZQIT		34	FORM APPR	ROVED
(December 1990)	BUREAU OF	· · · · · · · · · · · · · · · · · · ·	. Q Q = Q		-	et Bureau No	
SUBMIT IN TRIPLICATE			10-25-94		•	ires: Decemb	-
		API NO. 30-	125-327	13	5. Lease Design		rial No. I 18848
A	PPLICATION FOR P	ERMIT TO DRILL	OR DEEPEN		6. If Indian, Alot	tee or Tribe	Name
1a. Type of Wor 1b. Type of Well			SINGLE ZONE	\boxtimes	7. If Unit or CA,	Agreement	Designation
OIL GAS WELL WELL			MULTIPLE ZON		8. Well Name an SDE FEDERAL		ederal.
2. Name of Operator					ODE PEDEROM		not-
	TEXACO EXPLOR	ATION & PRODUCTIO	N INC.		7		
3. Address and Telepho	ne No. P.O. Box 3109, Mid	lland Texas 79702	688	4606	9. API Well No.		
	oort location clearly and in ac	cordance with any State	e requirements.*)		10. Field and Po	ol, Exploarat	ory Area
At Surface	0 Feet From The SOU	TH Line and 1980	Feet From The WEST	Line	SAND DUNES EAST DOWNOR		
Unit Letter N : 66 At proposed prod. zone					11. SEC., T., R.	, M., or BLK.	and Survey or Area
	:	SAME			Sec. 18,	Township	23-S, Range 32-E
14. Distance In Miles and I	Direction from Nearest Town o	r Post Office*			12. County or Pa	erish	13. State
	21 MILES EAS	T OF LOVING, NM.	·		LEA		NM
	ed" Location to Nearest Prope arest drig. unit line, if any)	rty or 660'	16. No. of Acres in Leas 1994.13	8	17. No. of Acres	Assigned To 40	This Well
18. Distance (From Propos Completed or Applied For	sed Location* to Nearest Well, , On This Lease, Ft.	Drilling, 1120'	19. Proposed Depth 8700'		20. Rotary or Cab	ie Tools R	
21.Elevations (Show whet	her DF,RT, GR, etc.)				D ! .	22. Approx.	Date Work Will Start*
	Gi	R-3588'	Carlsbad Contro	blied W	ater Basin		11/1/94
23		PROPOSED CAS	ING AND CEMENT	PROGR	RAM		
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DI	ЕРТН	C	UANTITY OF	CEMENT
14 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		
PPG, 1.34 CF/S, 6.3 G	50 SACKS CLASS C W/ 4						
SACKS CLASS H (15.6	8 PPG, 1.18 CF/S, 5.2 GW/	'S).					
TOOL @ 6300'. 2ND S	G - 1ST STAGE - 750 SAC STAGE - 750 SACKS 35/65 SPPG, 1.18 CF/S, 5.2 GW/	POZ CLASS H W/ 6%	GEL, 5% SALT, 1/4#	FLOCELE	E (12.8 PPG, 1.94 (12.8 Subject (14.21	‡ CF/S, 10.4	GW/S). F/B 100
THERE ARE NO OTHER OPERATORS IN THIS QUARTER QUARTER SECTION.				Coller	al Requirem A Stipulation	ents and	
In Above Space Describ to drill or deepen direct	be Proposed Program: If prop ionally, give pertinent data o	osal is to deepen, give d n subsurface locations a	ata on present producti nd measured true vertic	ve zone al	nd proposed new	productive zo eventer progr	one. If proposal is ram, if any.
24. I hereby certify that the foreg							·
	C.P. Basham,		orilling Operations	Mgr.			9/8/94
	C. P. Bas	sham			- (************************************		
(This space for Federal or State o	ffice use)						
PERMIT NO.	it warrant or certify that the applicar			lesse uhich	would entitle the anal	icant to conduct	operations thereon
Application approved to a construct of the construction of the con	imetup.C		AREA MAN	AGER	would online the appl		0-14-94
	, makes it a crime for any person k	nowingly and willfully to make	to any department or agency	of the Unite	d States any false, fic	titious or fraudu	lent statements or

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

DISTRICT II P. O. Drawer OD, Artesia, NM 88210

DISTRICT III 1000 Rio Brazas Rd., Aztec, NM 87410

DISTRICT IV P. O. Box 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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT API Number ²Pool Code ³ Pool Name 30-025-32713 53817 SAND DUNES EAST elaware Property Code ^{Sproperty} Name Well Number SDE FEDERAL "18" 11072 7 OGRID No. ⁸Operator Name Elevation 092321 TEXACO EXPLORATION & PRODUCTION, INC. 3588' ¹⁰ Surface Location Range UL or lot no Section Township Lot Idr Feet from the North/South line Feet from the East/West line County 32-E 18 23-S 660' N 1980' South l ea West Bottom Hole Location If Different From Surface UL or lot no. Section Township Ranae Lot Idn Feet from the North/South line Feet from the East/West line County ¹³Joint or Infill 12Dedicated Acres Consolidation Code ¹⁵Order No 40 NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION. OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature • 1 Roger D. Mariott CWA Printed Nam 46.02 Ac. Royce D. Mariott Position Division Surveyor T.E.P.I. Federal Sands 18 No. 1 P&A Company Texaço Expl. & Prod. Inc. Date August 29, 1994 46.05 Ac. "SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and 6 correct to the best of my knowledge and bellef. 3 O 46.09 Ac. Date Surveyed R August 15, 1994 Signature & Seal of Professional Surveyor 1120' 7 2 **O** 1980' 660' 46.12 Ac. Certificate No. 7264 John S. Piper 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 Ò Sheet 8 of 8 🔾 = Staked Location • = Producing Well 🖋 = Injection Well 🛷 = Water Supply Well 🔶 = Plugged & Abandon Well \bigcirc = Found Section Corner, 2 or 3" Iron Pipe & GLO B.C. () = Found /4 Section Corner, 1" Iron Pipe & GLO B.C.

DRILLING PROGRAM

SDE FEDERAL `18' WELL NO. 7

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: 3598'

Formation	<u>Depth</u>	Lithology	<u>Fluid Content</u>
Rustler	9301	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	Туре	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



H2S TRIN REQUIRED YES X NO



DRILLING CONTROL

MATERIAL LIST - CONDITION II - B

A Texaco Wellhead

2

- 30005 W.P. drilling spool with a 2" minimum flanged outlet for kill line and 3" minimum flanged outlet for choke line.
- C 30005 W.P. Dual ram type preventer, hydraulic operated with 1° steel, 30005 W.P. control lines (where substructure beight is adequate, 2 - 30005 W.P. single ram type preventers may be utilized).
- D Rotating Head with fill up outlet and extended Bloole Line.
- 1,3,4, 2" minimum 30005 W.P. flanged full opening steel gate 7,8, valve, or Nalliburton Lo Torc Plug valve.
 - 2" minimum 30006 W.P. back pressure valve.
- 5,6,9 3" minimum 30006 W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve.
- 12 3" minimum schedule \$0, Grade "S", seamless line pipe.
- 13 2" minimum x 3" minimum 30008 M.P. flanged cross.
- 10,11 2" minimum 3000f W.P. adjustable choke bodies.
- 14 Cameron Hud Gauge or equivalent (location optional in choke line).
- 25 2" minimum 3000# W.P. flanged or threaded full opening steel gate valve, or Halliburton Lo Torc Plug valve.

					TEXACO, INC.	
SCALE	DATE	E31 NO.	DRG. NO.			
				1	EXHIBIT C	
CHECKED BY		1				
APPROVED BY		l	<u> </u>			