Form 3160-3 (December 1990) NM OIL CONS. COI OPER. OGRID NO. 22351

FORM APPROVED Budget Bureau No. 1004-0136

CI	IRMIT	IAI	TDID	ICV.	Æ

representations as to any matter within its jurisdiction.

DRAWER DD

ARTESIA NATIONAL PROPERTY NO. 15867

POOL CODE 53817

BUREAU OF LA EFF. DATE 10-25-94

Dauget D	uioau i 10. 100 - 0 100
Expires:	December 31, 1991

		API NO. 30	-025-32714	5. Lease Design	ation and Serial No. NM 18848	
	APPLICATION FOR	PERMIT TO DRILL	OR DEEPEN	6. If Indian, Alor	ttee or Tribe Name	
1a. Typs of Wor 1b. Type of Well OIL GAS WELL WELL	DRILL 🗵	DEEPEN	RENEWEDE MULTIPLE ZONE	7. If Unit or CA, 8. Well Name at SDE-FEDERA	<i>J</i>	
2. Name of Operator	TEXACO EXPLO	RATION & PRODUCTIO	on incOCT 19.'94	2	(mit)	
3. Address and Telepho	P.O. Box 3109, M	lidland Texas 79702	O. C. 688-4606	9. API Well No.		
Location of Well (Re At Surface Unit Letter C: 66 At proposed prod. zone	port location clearly and in	accordance with any State RTH Line and 1980 SAME	e requipperpense,*)OFFICE Feet From The WEST Line	SAND DUNES E	AST Delayare , M., or BLK. and Survey or Area Township 23-S, Range 32-E	
14. Distance In Miles and	Direction from Nearest Town 21 Mil ES EA	or Post Office* ST OF LOVING, NM.		12. County or P	arish 13. State	
	sed* Location to Nearest Pro earest drig. unit line, if any)		16. No. of Acres in Lease 1994.13	17, No. of Acres	Assigned To This Well 40	
18. Distance fFrom Propo Completed or Applied Fo	osed Location* to Nearest We r, On This Lease, Ft.	oll, Drilling, 1320	19. Proposed Depth 8700'	20. Rotary or Cal	ole Tools R	
21.Elevations (Show whe		GR-3614'	Carlsbad Controlled W	ater Basin	22. Approx. Date Work Will Start* 10/15/94	
23		PROPOSED CAS	ING AND CEMENT PROG	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 -	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	
SURFACE CASING - PPG, 1.34 CF/S, 6.3 G INTERMEDIATE CAS SACKS CLASS H (15.	CEMENTING PROGRAM: SURFACE CASING - 350 SACKS CLASS C W/ 4% GEL, 2% CACL2 (13.5 PPG, 1.74 CF/s, 9.11 GW/s). F/B 200 SACKS CLASS C W/ 2% CACL2 (14.8 PPG, 1.34 CF/s, 6.3 GW/s). INTERMEDIATE CASING - 1300 SACKS 35/65 POZ CLASS H W/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.8 PPG, 1.94 CF/s, 10.4 GW/s). F/B 150 SACKS CLASS H (15.6 PPG, 1.18 CF/s, 5.2 GW/s).					
PRODUCTION CASING - 1ST STAGE - 750 SACKS 50/50 POZ CLASS H W/ 2% GEL, 5% SALT, 1/4# FLOCELE (14.2 PPG, 1.35 CF/S, 6.3 GW/S). DV TOOL @ 6300°. 2ND STAGE - 750 SACKS 35/65 POZ CLASS H W/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.8 PPG, 1.94 CF/S, 10.4 GW/S). F/B 100 SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S). THERE ARE NO OTHER OPERATORS IN THIS QUARTER QUARTER SECTION. Carried Bubject to Carried Bubject to Carried Bubject to Carried Bubject Stipulations Additional Casing - 15T STAGE - 750 SACKS 50/50 POZ CLASS H W/ 2% GEL, 5% SALT, 1/4# FLOCELE (12.8 PPG, 1.35 CF/S, 6.3 GW/S). DV TOOL @ 6300°. 2ND STAGE - 750 SACKS 35/65 POZ CLASS H W/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.8 PPG, 1.94 CF/S, 10.4 GW/S). F/B 100 SACKS CLASS H (15.6 PPG, 1.18 CF/S, 5.2 GW/S). THERE ARE NO OTHER OPERATORS IN THIS QUARTER QUARTER SECTION.						
In Above Space Descr to drill or deepen direc	ibe Proposed Program: If pr tionally, 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 . Give blowout pr	productive zone. If proposal is reventer program, if any.	
24. I hereby certify that the for SIGNATURE	C.P. Basham/c	<u>~</u>	Orilling Operations Mgr.		DATE 9/7/94	
TYPE OR PRINT NAME		asilalii			A STATE OF THE STA	
(This space for Federal or State	office use)		APPROVAL DATE			
PERMIT NO.	int warrant or earlify that the couli	cant holds legal or equitable title	to those rights in the subject lease which	would entitle the app	licant to conduct operations thereon.	
APPROVED BY CONDITIONS OF APPR	AM BOUL	TITLE TO	AREA MANAGER		DATE	

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, fictitious or fraudulent statements or

DISTRICE P. O. Box 1980, Hobbs, NM 88240

DISTRICT

P. O. Drawer DD, Artesia, NM 88210

1000 Rio Brazos Rd., Aztec, NM 87410

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

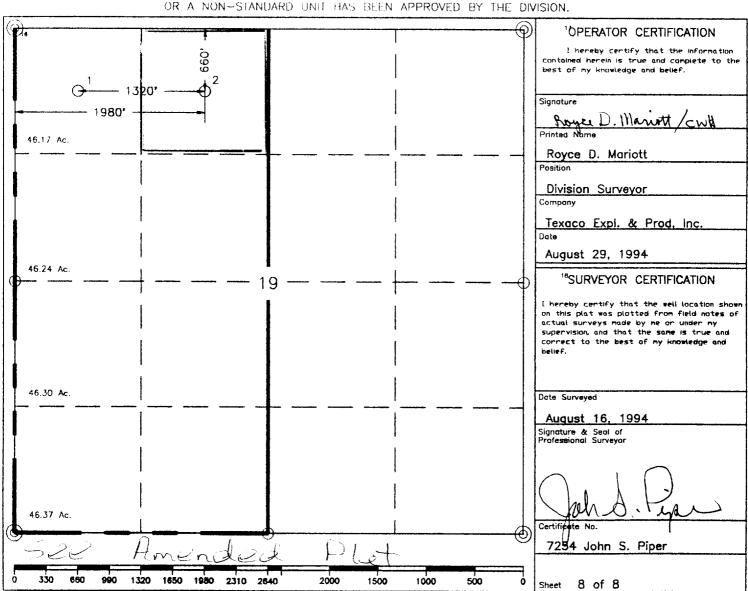
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-025-32714		53817 SANDS DUNES EAST Delawar			e		
Property Code		SDE FEDERAL "19"					
15861		2					
OGRID No.	^B Operator Name			⁹ Elevation			
022351		3614'					
Surface Location							

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
С	19	23 - S	32-E		6 60'	North	1980'	West	Lea
	Bottom Hole 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
14)edicated Acres	13 30	nt or Infill	Consolid	lation Code	¹⁵ Order No.	J.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	 		

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.



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. 2

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: 3624'

<u>Formation</u>	<u>Depth</u>	Lithology	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:

<u>Depth</u>	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.

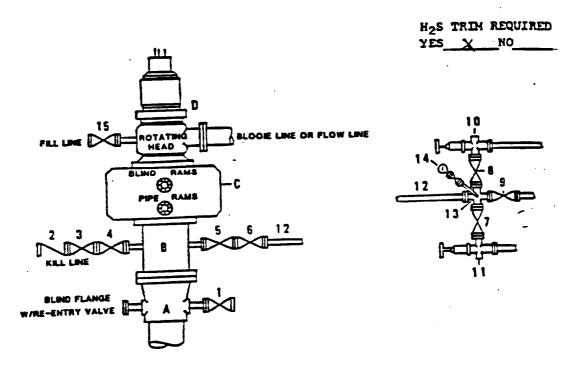
A two-man Mud Logging Unit will be used from 4400' to 8700'.

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

• .	30008 W.P. drilling speel with a 2" minimum flanged outlet for kill line and 3" minimum flanged outlet for choke line.
c	30000 M.P. Dual ram type preventer, hydraulic operated

with 1steel, 30008 M.P. control lines (where substructure height is adequate, 2 - 30008 M.P. single ram type preventers may be utilized).

D Rotating Mead with fill up outlet and extended Bleeie Line.

1.3,4, 2" minimum 30000 W.P. flanged full opening steel gate 7.8, valve, or Halliburton Lo Torc Plug valve.

2 2" minimum 30004 W.P. back pressure valve.

Texaco Wellhead

5,6,9 or minimum 30008 W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve.

3" minimum schedule 80, Grade "8", seamless line pipe.

2" minimum x 3" minimum 30008 W.P. flanged cross.

10,11 2" minimum 30000 W.P. adjustable choke bodies.

14 Cameron Mud Gauge or equivalent (location optional in choke line).

2" minimum 3000f W.P. flanged or threaded full opening steel gate valve, or Halliburton Lo Torc Plug valve.



TEXACO, INC.



	DATE	EST. NO.	DAG. NO.
BEALE			
DRAWS 87		1	
4-44-40 47		1	ł