Form 3160–3 (July 1989) (formerly 9–331C) UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT					CONTACT REC VNG OFFICE FOR NL 1 OF COPIES REQU. D (Other instructions on reverse side)		BLM Roswell District Modified Form No. NM060-3160-2 5. LEASE DESIGNATION AND SERIAL NO. NM-29233				
APPLICA	TION	FORF	PERMIT TO D	RILL,	DEEPEN	, OR PLUG E	ЗАСК	6. IF INDIAN, AL	LOTTEE OF	TRIBE NAME	9/1
1a. TYPE OF WORK								7. UNIT AGREEMENT NAME			
	GAS WELL		OTHER		SINGLE ZONE			8. FARM OR LE	ASE NAME		-
2. NAME OF OPERAT	OR			~		3a. AREA CODE & PH		9. WELL NO.	'13' FE	DERAL	-
		ON AND	PRODUCTION IN	<i>.</i>		(915) 688–46		9. WELL NO.	8		
3. ADDRESS OF OPE P. O. BOX		Midla	nd, Texas 797	02			- GIVED	10. FIELD AND		WILDCAT	-
4. LOCATION OF W			clearly and in accord		any State requi	rements.*)					_
At surface 1651' FSL	& 330' F	WL, U	NIT LETTER: L					AND SURVEY		LK.	
At proposed pr		·	C				. C. D.	* SEC 19 T. 00 S. P. 31 E			
		RECTION	ROM NEAREST TOWN	DR POST OF	FICE*			SEC. 13, T-22-S, R-31-E 12. COUNTY OR PARISH 13. STATE			-
			BAD, NEW MEXK	-				EDDY		NM	
15. DISTANCE FROM LOCATION TO NE PROPERTY OR L			330'		16. NO. OF A	CRES IN LEASE		ACRES ASSIGNED	A		-
PROPERTY OR L	EASE LINE, t drig. unit	FT. line, if a				1120			40		_
18. DISTANCE FROM		LOCATION	ETED.		19. PROPOSED	DEPTH	20. ROTAF	ROTARY OR CABLE TOOLS			
TO NEAREST WE				2'		8500'	ROTARY 22. APPROX. DATE WORK WILL START*			-	
21. ELEVATIONS (Sh	ow Whethe	r DF, RT,	GR, ETC.)				FEBRUARY 18,				
<u>GR-3557'</u> 23.			PROPOSI			IENTING PROGRA	Marcin				- Siosh
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7 7/8	l 51/	′2	15.5# & 17#	J-	55	LT&C	1 8	sootsee stip	s) 172	5 SACKS	
9,9.9gw/s). RODUCTION CA Pppg, 1.28f3/ GALT & 1/4# F THERE ARE NO EXACO REQUE REQUEST SUBS INES TO A MU ERMINATE AT	F/B 250 ASING - s, 5.759 FLOCELE OTHER (STS A V TITUTING D/GAS S THE MU	D SACK 1st ST/ gw/s). (12.8p DPERAT ARIANC A ROT DEPERA D/GAS	SACKS 35/65 F S CLASS H w/ AGE: 725 SACK <u>DV TOOL @ 60</u> opg, 1.87f3/s, ORS IN THIS QU/ E FROM ORDER ATING HEAD FOI TOR IN LIEU OF SEPERATOR IN I	I% Cacl2 S 50/50 <u>00</u> '. 2nd 9.9gw/ ARTER Q No. 2 RI RUNNING LIEU OF	(15.6ppg, POZ CLAS STAGE: S S). F/B 10 UARTER SE EQUIRING A NNULAR PRI THE LINES RUNNING TO	, 1.19f3/s, 5.2 S H w/ 2% GEL 900 SACKS 35/ 00 SACKS CLAS CTION. REMOTE CONTR EVENTER. WE TO A PIT AND D THE PIT.	2gw/s). , 5% SAI 65 POZ S H (15 No var / Gor 2 OL UNIT WILL IN: THE INSI	LT & 1/4# FI CLASS H W/ .6ppg, 1.18f rience rea M systen FOR A 3M B STALL TWO DE BLEED LI	LOCELE 6% GEL 3/s, 5, Wired M · (S OP, WE OUTSIDE NE WILL	(14. , 5% 2gw/s). 15 CHOKE 	P-I
rf any. 24. SIGNED	. P. P		m/cwt	TITL		ING OPERATIONS			01-		_
(This space for F	ederal or S	tate office	use)			<u> </u>		<u>``</u>			-
PERMIT NO.						OVAL DATE	<u></u>				_
APPROVED BY _				ידוד	LE			DATE	<u>.</u>	6.92-	—
SPECIAL STU	-			See Ins	tructions (On Reverse Sic	le				

ALLACHED 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 representations as to any matter within its jurisdiction.

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

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

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

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

State of New Mexico Energy, Minerals and Natural Resources Department

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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

<u> </u>								
Operator TEXACO	EXDI.ODA	LION & PRODUCT		Lease				Well No.
					NEFF "13"	(Beta	<u>unit</u>	R
Unit Letter	Section	Township		Range			County	
L	13			<u>R-31-E</u>		NMPM	Eddy	
Actual Footage Loc	ation of Well:							
1651	feet from the	South	line and	330		feet from	the West	line
Ground level Elev.	P	roducing Formation		Pool				Dedicated Acreage:
3557	Bri	ushy Canyon	1	Livingst	on Ridge			40 Acres
2. If mo 3. If mo unitizi	re than one leas re than one leas ation, force-poo Yes	No If and	utline each and is dedicated to the w wer is "yes" type	dentify the own well, have the in of consolidation	mhip thereof (both a terest of all owners b	s to worki	lidated by comi	royalty).
		owners and tract description	ons which have a	ctually been cor	solidated. (Use reve	rse side of		
this form	n if neccessary,	ningend to the purily until all i						
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ANTICIPATED WATER, OIL, GAS AND MINERAL BEARING FORMATIONS

Lease: Neff "13" Federal Well No: 8 Location: 1651' FSL, 330' FWL, Sec. 13, T-22-S, R-31-E County: Eddy State: New Mexico Elevation: GR-3557' Proposed TD: 8500'

Formation Tops

Depth	Formation	<u>0il</u>	<u>Gas</u>	Water	Lithology
180' 772' 1170' 4442' 4502' 5542' 6987' 7012' 7850' 8342'	Santa Rosa Rustler Salado Lamar Bell Canyon Cherry Canyon Brushy Canyon Brushy Canyon Pay Lower Brushy Can. Bone Spring	X X X		Х	Ss,Redbeds Anhy, Salt Salt Limestone Sandstone Sandstone Sandstone Sandstone Limestone

Geologic Description

The surface geology of this area is Quaternary age alluvium. Occassional outliers of Triassic Santa Rosa Sandstone are found in some areas. Vegetation consists mainly of scrub oak, mesquite and desert grasses.

The base of the salt section is found around 4350'.

No drill stem tests will be conducted. No cores will be taken.

A water flow of 48C BPH with 800 PPM H2S was encountered in the Neff "13" Federal Well No. 5 at 3340'. If a water flow is encountered, a DV Tool will be placed at approximately 3000' on the Intermediate Casing and cemented as follows: 1st Stage - 600 sacks class H w/ 1% Cacl2 mixed at 15.6 PPG. 2nd Stage - 800 sacks 35/65 Poz class H w/ 6% Gel, 5% Salt & 1/4# flocele mixed at 12.8 ppg, F/B 700 sacks class H w/ 1% Cacl2 mixed at 15.6 PPG.

GR-CAL-CNL-LDT, GR-SP-DIL-SFL and Dielectric surveys will be run.

Mud Program

Depth	Туре	Weight	Viscosity
0'-880'	Fresh Water	8.4	28
880'-4400'	Brine Water	10.0	29
4400'-6900'	Fresh Water	8.4	28
6900'-8500'	Starch	8.6	33-36

Blowout preventer will be installed after surface casing is set. BOP will be tested each time it is installed on a casing string and operated at least once each 24-hour period during drilling.



SURFACE USE AND OPERATIONS PLAN FOR

TEXACO EXPLORATION AND

PRODUCTION, INC.

FEDERAL NEFF "13" #8,

1651 FSL & 330 FWL SECTION 13, TWP. 22 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO

LOCATED: 30 miles East of Carlsbad, New Mexico

FEDERAL LEASE NUMBER: NM 29233

LEASE ISSUED: February 1, 1977, Lease is in producing status

ACRES IN LEASE: 1120 Acres

RECORD LESSEE: TEXACO EXPLORATION AND PRODUCTION, Inc.

SURFACE OWNERSHIP: USA

•

GRAZING PERMITTEE: Kenneth Smith P.O. Box 764 Carlsbad, New Mexico 88220

POOL: Brushy Canyon

POOL <u>RULES</u>: Field Rules are for no wells to be located closer than 330' to any quarter-quarter section, to be 330' from the lease line, and 330' from the nearest well.

EXHIBITS: A. Access Road and Facilities Map

B. Drilling Rig Layout Diagram

C. Well Location and Acreage Dedication Plat

1. EXISTING ACCESS ROADS

A. Exhibit "A" in a portion of a 7.5 minute U.S.G.S. topographic map showing the proposed well site and the existing roads in the area. Point "A" is the junction of the existing resource road with Lea County Road No. C-29, being 11.3 miles Southeasterly, Southerly and Southwesterly, from its intersection with U.S. Highway 62 & 180. Said intersection is approximately 32 miles Northeasterly of Carlsbad and 40 miles Southwesterly of Hobbs, New Mexico along the major established Public Road System. Point "A" is also approximately 8.9 miles Northerly on Eddy County Road No. 798 and 1.1 mile Northeasterly on Lea Co. Road C-29 from Eddy County Road 798 intersection with State Highway 128, which is approximately 34 miles Westerly of Jal, New Mexico.

The local existing resource road travels Westerly 0.54 miles to Point "B", the turning point in the existing resource to the North. A resource road is planned for construction, during the drilling of Well #7 of this lease, 300 feet Southerly to Point "C". (Shown in Yellow on Exhibit "A") From this point a new resource road will be constructed as described below.

2. PLANNED RESOURCE ROAD

A. Length and Width: From Point "C" as shown on Exhibit "A", a new 14 foot wide Resource Road will be constructed 1200 feet Southerly (Shown in Blue on Exhibit "A") with access at the Northeast corner of the proposed well pad, as shown on Exhibits "A" and "B". (Note that this proposed resource road will be 110 feet Easterly of the nearest nest as described in Item 11.C below.

B. <u>Surfacing Material:</u> Caliche material will be used to surface the proposed road. It will be watered, compacted, and graded.

C. <u>Maximum Grade</u>: An approximate grade of one percent will be encountered descending from Point "B" to the proposed well pad.

D. <u>Turnouts</u>: Turnouts will be constructed as required.

E. <u>Drainage Design</u>: The new road will be crowned at the center to direct drainage to ditches on both sides of the roadway with turnout ditches to be constructed as required.

F. <u>Culverts:</u> None required.

G. <u>Cuts and Fills</u>: A slight amount of leveling will be required as the road crosses several small sand dunes to the proposed well pad.

II. Gates and Cattle Guards: None required.

3. LOCATION OF EXISTING WELLS

A. Existing wells on the lease and in the immediate area are shown on Exhibit "A".

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

A. The oil, gas, and/or water that this well will produce will be transported by a 2 or 2 1/2" steel surface flowline (shown in Green on Exhibit "A") laying along the side of the proposed road, crossing Lea County Road C-29 at Point "A", and continuing across country to Texaco's existing Federal Neff "13" Battery located on the East side of the existing well No. 2 pad as shown on Exhibit "A".

B. An electric power line will be built to service this well as shown in orange on exhibit "A".

5. LOCATION AND TYPE OF WATER SUPPLY

A. It is not contemplated that a water well would be drilled. Water necessary for drilling operations will be purchased and trucked to the well site or will be transported to the well site by a temporary pipeline laid on the ground alongside existing and proposed roads.

6. SOURCE OF CONSTRUCTION MATERIALS

A. Caliche needed for the road and well pad will be taken from an existing pit in the NE/4 of the SW/4 of Section 12, T22S, R31E, Eddy County, New Mexico. It will be transported to the proposed road and well site by Lea County Road C-29 and the existing resource roads.

7. METHOD OF HANDLING WASTE DISPOSAL

A. Drill cuttings will be disposed of in the drilling pits.

B. Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.

C. Water produced during tests will be disposed of in the drilling pits.

D. Oil produced during tests will be stored in test tanks until sold.

E. Trash, waste paper, garbage and junk will be placed in a trash bin located on the drill site pad. It will be transported to an approved landfill for disposal within 30 days after completion of drilling and/or completion operations. All waste material will be contained to prevent scattering by the wind.

8. ANCILLARY FACILITIES

A. None required.

9. WELL SITE LAYOUT

A. Exhibit "B" shows the relative location and dimensions of the well pad, mud pits, and trash pit, and the location of the major rig components.

B. Cut and Fill requirements will be minor, but clearing and leveling of the well site will be necessary.

10. PLANS FOR RECLAMATION OF THE SURFACE

A. After completion of drilling and/or completion of operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location will be cleaned of all trash and junk to leave the well site in an as aesthetically pleasing condition as possible.

B. Any unguarded pits containing fluids will be fenced until the pits are dry.

C. After abandonment, all equipment, trash and junk will be removed and the well site will be cleaned. Any special reclamation and/or special revegetation requirements of the Surface Management Agency will be complied with and will be accomplished as rapidly as possible.

11. OTHER INFORMATION

A. <u>Topography:</u> The land surface in the area of the well is relatively level with small and moderate sand dunes. Regionally, the land slopes to the Southwest with average slopes of less than one or two percent.

B. Soil: Top soil at the well site is a deep sandy loam.

C. <u>Flora and Fauna</u>: The vegetation cover is moderate, it includes range grasses, weeds, scrub oak bushes, and mesquite bushes. Wildlife in the area is that typical of a semi-arid desert land and includes coyotes, rabbits, rodents, reptiles, hawks, dove, quail and other small birds. Two nests were found 348 feet and 362 feet Northerly and Northwesterly respectively of the staked location.

D. Ponds and Streams: There are no rivers, lakes, ponds, or streams in the area.

E. <u>Residences and Other Structures</u>: There are no occupied dwellings or other structures within 3/4 mile of the well site.

F. <u>Archaeological</u>, <u>Historical</u>, <u>or other Cultural Sites</u>: None were observed in the area.

G. Land Use: Grazing, oil and gas production, and wildlife habitat.

H. Surface Ownership: Federal

12. OPERATOR'S REPRESENTATIVE

C. P. Basham Drilling Superintendent Texaco Exploration and Production, Inc. P. O. Box 3109 Midland, Texas 79701 Office Phone: (915) 688-4620

CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, that the work associated with the and correct; and, true performed by Texaco be will herein operations proposed Exploration and Production, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U. S. C. 1001 for the filing of a false statement.

C. P. Basham Drilling Superintendent Midland, Texas

1-2-92

Date

Enclosures jap





Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

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

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

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

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OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe. New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410

All Distances must be from the outer boundaries of the section Well No. 1.48 Operator TEXACO EXPLORATION & PRODUCTION Inc 8 FEDERAL NEFF "13" (Beta_Unit) County Range Township Section Unit Letter Eddy NMPM R-31-E T-22-5 L Actual Footage Location of Well: line feet from the West 330 South line and Dedicated Acreage: 1651 feet from the Pool Producing Formation Ground level Elev. 40 Livingston Ridge Acres Brushy Canyon 3557 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? If answer is "yes" type of consolidation No If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division. ան անդաներությունները անդաներությունները անդաներությունները անդաներին անդաներին անդաներին անդաներին անդաներին ա OPERATOR CERTIFICATION I hereby certify that the information contained herein in true and complete to the best of my knowledge and belief. Signature D Чa .6 Printed Name Royce D. Mariott Position Division Surveyor Company Texaco Expl. & Prod. Inc. 2• Date Dec. 18, 1991 7 13 " Nelff SURVEYOR CERTIFICATION Federal 3 I hereby certify that the well location shown on this plat was plotted from field notes of 322 Acres 1150 actual surveys made by me or under my supervison, and that the same is true and 1 correct to the best of my knowledge and POGO oper. belief. 330 1 8 Date Surveyed Dec. 17, Signature & Seal of 1991