Form 3160-3 (November 1983) ((ormeriy 9-331C)

HOBBS, NEW MEXICE, 82240 Form approved.

Other instructions on Budget Bureau Margaret Bureau M

UNITED STATES . DEPARTMENT OF THE INTEDIOD

Expires August 31, 1985

BUREAU OF LAND MANAGEMENT					5. LEASE DESIGNATION NM 19623	AND SERIAL NO.	
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK					6. IF INDIAN, ALLOTTE	6. IF INDIAN, ALLOTTED OR TRIBE NAME	
b. TIPE OF WELL		DEEPEN (JG BACK 🗆			
	ELL OTHER	·	SINGLE ZONE	ZONE	8. FARM OR LEASE MA		
Enron Oil & (Vaca 13 Fede	ral					
3. ADDRESS OF OPERATOR			 		- 2 · · · · · · · · · · · · · · · · · ·		
P. 0. Box 220	10. PIELD AND POOL,	OR WILDCAT					
4. LOCATION OF WELL (R At surface		id in accordance wit	h any State requireme	Dts.*)	Red Hills (Bo		
	1980' FEL				11. SEC., T., E., M., OR AND SURVEY OR A	BLE.	
At proposed prod. sone							
660' FNL & 1980' FEL /// /					Sec 13, T25S		
	est from Jal					1	
15. DISTANCE FROM PROPU LOCATION TO NEAREST	660		16. NO. OF ACRES IN		Lea 10. OF ACRES ASSIGNED	NM	
PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 660 1880					40		
13. DISTANCE FROM PROPOSED LOCATIONS TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR. ON THIS LEASE, FT. 1320 to #3			19. Гноровер рертн 12,600'	1	20. ROTARY OR CABLE TOOLS		
21. ELEVATIONS (Show who	otary						
3356.9' GR	22. APPROX. DATE W						
3.							
PROPOSED CASING AND CEMENTING PROGRAM							
SIZE OF HOLE	SIZE OF CABING	WEIGHT PER FO		EPTH	QUANTITY OF CEME	NT.	
14-3/4	11-3/4 8-5/8	42# H-40 A	051	0 250	O sx CIRCULATED		
7-5/8	5-1/2	- 24# &32# J	<u>-55 \$T&C 520</u> N-80 ST&C 120		O sx CIRCULATED O sx Est loc t	o 7500	
. 0,0	5 1, 2	127 " 0 00 4	11 34 3140 121	120	0 3A <u>L3C 10C C</u>	<u>,0_7500</u>	
					> C 701.75 71.75		
						رت بن (۱۱)	

Acreage is Dedicated

SPECIAL STIPULATIONS

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive sone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any? ∡Betty Gildon SIGN (This space for Federal or State office use) PERMIT NO. Ron Dunton AUG 1 0 1993 AREA MANAGER DATE CONDITIONS OF APPROVAL, IF ANY : APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND

*See Instructions On Reverse Side

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

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

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

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

		······································						
Operator EN	RON OIL AND	GAS CO.		Lease	VACA "13"	FEDERA	ıL	Well No. 2
Unit Letter Se	ection	Township		Range		,	County	
8	13	25 SC	HTU		33 EAST	NMPM		LEA
Actual Footage Locati	NO	RTH line and		1980			the EAS	г
Ground Level Elev.	Producing Fo			Pool		feet from	the CAS	1446
3356.9		e Spring		Red Hi	11c			Dedicated Acreage: 40
								Acres_
 Outline the acres If more than on 								g interest and royalty).
3. If more than on unitization, force			dedicated to	the well, ha	we the interest of	f all owners	been consol	idated by communitization,
Yes	No □	If answer is	"===" t=== =d		_			
If answer is "no" l this form necessary	·							
No allowable will otherwise) or unti	be assigned to l a non-standa	the well unit rd unit, elimina	all interests ting such int	have been erest, has b	consolidated (b een approved by	y commun	itization, ur on.	nitization, forced-pooling
							OPERAT	OR CERTIFICATION
	!		099					tby certify the the information
			3361.1	3359.2				ein is true and complete to the conclude and belief.
	İ		l i °		 1980'		pignature	/ .0
	į		3358.9	3356.1			Printed Nan	
	_			 			Betty G	Gildon
	į			İ			Regulat	ory Analyst
	l			. l			Company Enron ()il & Gas Company
	i						Date 5/18/9	
				ļ				OR CERTIFICATION
				İ			on this plat i	fy that the well location shows vas plotted from field notes o s made by me er under m
	ļ						supervison, a	end that the same is true an
							correct to t belief.	he best of my knowledge or
				į			Date Survey	wed MAY 2, 1993
ļ	+			+			Signature &	Seal of
			·	 -				GARY L. JONES
				 			Carnucke	797 1050 1070 1070 1070 1070 1070 1070 107
							` \	SARCE JONES 707
0 330 660 9	90 1320 1650	1980 2310 26	40 200	00 1500	1000 500	0	(93-11-0737

DRILLING PROGRAM

Enron Oil & Gas Company
Vaca "13" Federal, Well No. 2
660' FNL & 1980' FEL
Sec. 13, T25S, R33E
Lea County, New Mexico

1. Geologic Name of Surface Formation:

Permian

2. Estmated Tops of Inportant Geologic Markers:

Rustler	850'
Delaware Mt. Group	5175'
Bone Spring Lime	9275'
Bone Spring Pay	12225
TD	12600

3. Estimated Depths of Anticipated Fresh Water, Oil or Gas:

Upper Permian Sands	100'	Fresh Water
3rd Bone Spring Sand	12225'	Oil

No other formations are expected to give up oil, gas or fresh water in measurable quantities. The surface fresh water sands will be protected by setting 11-3/4" casing at 500' and circulating cement back to surface, and 8-5/8" casing will be set at 2100' with cement circulated back to surface.

Enron Oil & Gas Company
Vaca "13" Federal, Well No. 2
660' FNL & 1980' FEL
Sec. 13, T25S, R33E
Lea County, New Mexico

4. <u>Casing Program:</u>

<u> Hole Size</u>	<u>Interval</u>	OD csq	Weight Grade Jt. Cond. Type
14-3/4	0- 650'	11 - 3/4	42# H-40 A ST&C
11	0- 5200'	8-5/8	24# & 32# J-55 LT&C
7-7/8	0-12600'	5-1/2	17# J-55 & N-80 ST&C

Cementing Program:

11-3/4" Surface casing: Cement to surface with 250 sx of Class C

+ 2% CaCl2 + 1/4#/sx flocele.

8-5/8" Intermediate: Cement to surface with 800 sx of Premium Plus

lite + 15#/sx salt + 1/4#/sx Flocele and 300 sx

Cl C + 2% CaCl2

5-1/2" Prod casing: Cement with 1200 sx 50/50 Cl H/Poz + 2% gel + .4%

CF-14, .1% Diacel LWL. This cement slurry is

designed to bring TOC to 7500'.

5. Minimum Specifications for Pressure Control:

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram-type (3000 psi WP) preventer and an annular preventer (3000 psi WP). Units will be hydraulically operated and the ram-type will be equipped with blind rams on top and drill pipe rams on bottom. All will be installed on the 11-3/4" surface casing and used continuously until TD is reached. All BOP's and accessory equipment will be tested to 600 psi before drilling out of surface casing. Before drilling out of intermediate casing, the ram-type BOP and accessory equipment will be tested to 3000 psi and the annular to 70% of rated working pressure (2100 psi).

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. A 2" kill line and 4" choke line will be included in the drilling spool located below the ram-type BOP. Other accessories to the BOP equipment will include a kelly cock and floor safety 2valve (inside BOP) and choke lines and choke manifold with 3000 psi WP rating.

ENRON OIL & GAS COMPANY

ATTACHMENT

