UNITED STATES PARSON NEW MEXICO 188240

703	M A.	7.KUV.	עב
OMB	NO.	1004-01	35
देशांद्य:	Fabr	Jury 23.	199

DEPARTMENT OF TH				S. LEASE DESIGNATION AND SERIAL NO.		
BUREAU OF LAND MA	NAGEMEN"	Edu 1-15	-97	NM NM 92200		
APPLICATION FOR PERMIT T	5. IF INDIAN, ALLOTTER OR TRIBE NAME					
a. TYPE OF WORK				7. UNIT AGREEMENT NAME		
DRILL Q DEEPH	ENU					
OIL X CAS OTHER	51 N 20 S	CLE X HULTIP	رة ك	S. FALM OR LEASE HAME WELL SO.		
NAME OF OPERATOR		20.12		Mitchell Olsen 34 Fed		
Enron Oil & Gas Company		_		9. AR WELL NO.		
ADDRESS AND TELEPHONE HO.						
P. O. Box 2267, Midland, Texas 79  Location or walk (Report location clearly and in accordan	•	915) 686-3714		10. TIEND IN COCHOE WILDEST		
330' FSL & 330' FEL		are requirements.	1	Red Hills Bone Spring 11. SEC., T., B., M., OA BLK.		
At proposed prod. zone	,	$\sim$		AND SURVEY OR AREA		
Same	Unit	1		Sec 34, T25S, R34E		
4. Distance in wites and direction from Nelectations of 25 miles West from Jal, NM	R POST OFFICE	•		12. COUNTY OR PARISE 13. STATE		
NIGTINGS TROW BROWNESS	15. NO.	OF ACRES IN LEAST	1 17. NO. 0	Lea NM		
LOCATION TO NEAREST PROPERTY OF LEASE LINE, FT. 330			TOT	dis well		
3. DISTANCE FROM PROPOSED LOCATION	19. PHO	640 POSED DEPTH	20. ROTA	80 RT OR CABLE TOOLS		
TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, IT. 1650		13000	Rot	ary		
1. ELEVATIONS (Show whether DF, RT, GR, etc.)				22. APPROX. DATE WORK WILL START		
3322' GR				2/15/97		
PROPOSED	CASING AND	CEMENTING PROGRA	M			
	TER FOOT	SETTING DEPTH		QUANTITY OF CUMENT		
14-3/4 11-3/4 H-40 A \$T&C	42#	650		sx CIRCULATED		
11 8-5/8 J-55 ST&C 7-7/8 5-1/2 P-110 LT&C	32# 17#	5200	1100	sx CIRCULATED		
& S-95 LT&C	17#	6500 6500–13000	1200	sx est TOC at 7500'		
The Undersigned accepts all applic restrictions concerning operations as shown below:  NM NM 92200 Red Hills Bone Spring Sec 34-25S-34E Federal Bond # is MT 0748 WITH endorsement to New Mexage COD  EFF. DAYS  APINO	conducte	73-7-7 21/457	-			
ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to depen directionally, give pertinent data on subsurface locations and measures	d and true vertical	depths. Give blowout preve	urer biodizar	new productive zone. If proposal is to drill or if any.  1/13/97		
SIGNE DETTY Gildo	n title Res	gulatory Analy:	st	DATE		
(This space for Federal or State office use)						
PERMIT NO.		PROVAL DATE				
Application approval does not warrant or certify that the applicant holds leg	में ल ब्व्याध्कीर वंदे	to those rights in the subject.	lesse which we	ould entitle the applicant to conduct operations ther		
CONDITIONS OF APPROVAL, IF ANY:						
FORIG. SGD FONE CHERGUSON		UM. MINEHALS		9		
The state of the s		OM. WHYCHALS		3/28/97		

\*See Instructions On Reverse Side

District 1 PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 1000 Rio Brazos Rd., Aztec, NM 87410 District IV

State of New Mexico Energy, Minerals & Natural Resources Department

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

Form C-102Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

PO Box 2088, S	anta Fe, N	M 87504-206	38								AME	NDED REPORT
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'AF	'I Number			Pool Co	de	· · · · · · · · · · · · · · · · · · ·			Pool Na			
32-22	5-33	121		→ Mitchell Olsen 34 W			):\de	at l	Bone Sprin			
'Property					*Prope	ty Name	, , , ,				٠, ٨	ell Number
2045	フー			MITCH	IELL OLSEI	√"34" FE	DERA	L				11
OGRID,	No.				*Opera	or Name					Elevation	
73	77					GAS COMP	_					3322'
				<sup>/</sup> 11	Surface	Location	1					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from th			Feet fr	om the	East/Wes	st line	County
Р	34	25-S	34-E		330	SOUT	Ή	33	30	EAS	ST	LEA
		11 .	Bottom	. Hole	Location	If Differe	nt F	rom S	Surfac	e		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from th	e North/Sout	h line	Feet fr	om the	East/We	st line	County
"Dedicated Acr 80 NO ALLOW		ILL BE A		O TO TH		TION UNTII BEEN APP					EEN CO	ONSOLIDATED
								tra Sig	mature  Betty inted Nar  Reguile	y Gildon	best of my	TIFICATION contained herein is knowledge and belief.
						LAT.=32.044 LONG.=103.		Da Sig	hereby cert s plotted f under my rrect to be te of Sur	ify that the wrom field note supervision, a st of my balls  JANUAR  vey	rell location os of actual and that the st.	- Queveror:

Certificate Number

#### DRILLING PROGRAM

Enron Oil & Gas Company
Mitchell Olsen 34 Fed, Well No. 1
330' FSL & 330' FEL
Sec. 34, T25S, R34E
Lea County, New Mexico

### 1. Geologic Name of Surface Formation:

Permian

# 2. Estimated Tops of Important Geologic Markers:

Rustler	850'
Delaware Mt. Group	5175'
Bone Spring Lime	9275 '
3rd Bone Spring Sand	12500'
TD	13000'

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

Upper Permian Sands	100'	Fresh Water
3rd Bone Spring Sand	12500'	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 650' and circulating cement back to surface, and 8-5/8" casing will be set at 5200' with cement circulated back to surface.

# Enron Oil & Gas Company Mitchell Olsen 34 Fed, Well No. 1 330' FSL & 330' FEL Sec. 34, T25S, R34E 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	32# J-55 ST&C
7-7/8	0- 6500'	5-1/2	17# P-110 LT&C
	6500'-13000'	5-1/2	17# S-95 LT&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. <u>Minimum Specifications for Pressure Control:</u>

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram-type (5000 psi WP) preventer and an annular preventer (5000 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 5000 psi and the annular to 70% of rated working pressure (3500 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 valve (inside BOP) and choke lines and choke manifold with 5000 psi WP rating.

