			N.M. OIL CO P.O. BOX 19		MMISSION
Form 3169-5 (July 1992)	UNI	ED STATES	HO UBART IN T		CO 83 FORM APPROVED Expires: February 28, 1995
DEPARTMENT OF THE INTERIOR 5. LEASE DESIGNATION AND BEBIAL NO.					
		LAND MANAGEMEN			NM 14497-A
	CATION FOR P	ERMIT TO DRIL	L OR DEEPEN		
	LL 🖄	DEEPEN			7. UNIT AGREEMENT NAME
b. TIPE OF WELL OIL X GA WELL W		8 74	NGLE MULTI		8. FARM OR LEASE NAME, WELL NO.
2. NAME OF OPERATOR			· · · · · · ·		Diamond 7 Federal #4
Enron Oil & G 3. ADDRESS AND TELEFINIONS NO.	as company	<u> </u>			30-025-32433
P. O. Box 226	7, Midland, Te	xas 79702			10. FIELD AND POOL, OR WILDCAT
At surface	bo	in accordance with any i	state requirements.~ ;		Red Hills (Bone Spring) 11. SEC., T., B., M., OB BLK.
At proposed prod. son		) , į .	1 C		AND SURVEY OR AREA
🗘 1980' FNL & 🖺	60'FWL	REST TOWN OF POST OFFIC	$+ \varepsilon_{-}$		Sec 7, T25S, R34E
25 miles west			-		Lea NM
15. DISTANCE FROM PROPULOCATION TO NEAREST	960	16. N	D. OF ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL
PROPERTY OR LEASE L (Also to nearest drig 18. DISTANCE FROM FROM	unit line, if any) 3	60	320	20. BOTA	40
18. DISTANCE FROM FROM TO NEAREST WELL, DI OR APPLIED FOR, ON THI	RILLING, COMPLETED.		12,650		ary
21. ELEVATIONS (Show whe					22. APPROX. DATE WORE WILL START" 2-25-94
23.	00.4' GR	PROPOSED CASING AN	D CEMENTING PROGR	AM <b>N</b>	lo Water Basin
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT
14-3/4	11-3/4	42# H-40 A ST			SX CIRCULATED
<u>    11                               </u>	<u> </u>	<u>  32# J-55 ST&amp;C</u>   17# P-110 LT&	<u>5200</u> 12650	1200	sx CIRCULATED sx Est TOC 7500'
·	-,-		1 12000	1200	
	RID NO. 0073				
PROPERTY					
	POOL CODE <u>51020</u>				
EFF. DATE 2-28-94					
APINO. 30-025-324-33					
					ů, ů,
					G2
Acreage is De	edicated.	General I Special S	Subject to Requirements and Reputations	1	
IN ABOVE SPACE DESCRIP	E PROPOSED PROGRAM:	Attached If proposal is to deepen, give da	ta on present productive zo	ne and propose	ed new productive zone. If proposal is to drill or
deepen directionally, give pert	inent data on subsurface locat	ions and measured and true vert	ical depths. Give blowout pro	eventer program	n, if any.
24. BIGNED Betty	Seldon Betty	Gildon TITLE_	Regulatory Ana	lyst	DATE 11/18/83
(This space for Fede	eral or State office use)				
PERMIT NO.		······	APPROVAL DATE		
		applicant holds legal or equitable	title to those rights in the subj	ect lease which	would entitle the applicant to conduct operations there
CONDITIONS OF APPROVA	L IF ANY:				
APPROVED BY LUNC	other P M		AREA MANAGI	ER	DATE FEB 2 2 1994
APPROVED BY		المالية مستعاميتهم حرار			

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

\*See Instructions On Reverse Side

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

DISTRICT III

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

# OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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

1000 Rio Brazos Rd., Aztec, NM 87410

# WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

2080 feet from the NORTH line and 560 feet from the WEST line	Operator								
E       7       25 SOUTH       34 EAST       NMPN       LEA         Actual Fortage Location of Wall:       2080 feet from the       NORTH       ine and       550       feet from the       WEST       ine         Ground Level Elev.       Fordacing Formation       Pool       Red Hills       40       Acrea         1. Outline the acreage dedicated to the webpet wall by colored pacell or hachure marks on the plat below.       2. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization (norce-pooling, clor?)       3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners added of the feet from the interest, has been consolidated. (Use rowerse side of this form accessory.)       No       If enswer is "no" list of owners and tract descriptions which have actually been consolidated (by communitization, unitization, forced-pooling, otherwise) or unit a non-stander unit, eliminating such interest, has been approved by the Division.       OPERATOR CERTIFICATION / Newly certify the two feet device.         3413.4'	ENF	RON OIL &	GAS CO.	Lease	DIAMOND 7	FEDERAL			4
E     7     25 SOUTH     34 EAST     NUPM     LEA       2080     feet from the     NORTH     time and     560     feet from the     WEST     ine       2080     feet from the     NORTH     ine     560     feet from the     WEST     40     Acres.       341.2.2     Bonne Spring     Rad Hills     0     Acres.     40     Acres.       1. buttine the acreage 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. (Use reverse side of     10       3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated. (Use reverse side of     10       No allowable, of owners and tract descriptions which have actually been consolidated (by communitization, unitization, forced-poolin, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.     0       3413.4'1407.9'	Unit Letter Sect	rot	Township	Range			County	1	<u> </u>
Actual Footage Location of Fail:       2080       feet from the NORTH line and 560       feet from the WEST line         Cround Lavel Barr       Fromation       Pool       Attract form the States of Attract of the states of the state of the states of the states of the state of the st	E	'	25 SOUTH		34 FAST	NMPM		IFΔ	
Ground Level Bar.     Producing Formation     Poil     feet from the WCS1     line       3417.2     Rone Spring     Red Hills     40     Acress       1. Outline the acreage dedicated to the subject well by colored pencil or hackure marks on the plat below.     40     Acress       2. If more than one lesses of different ownership is dedicated to the well, outline sech and identify the ownership thereof (both as to working interest and royalty).     3. If more than one lesses of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization force-pooling, etc.?     If more than one lesses of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?       If more than one lesses of different ownership is dedicated to the well unit all interests have been consolidated (by communitization, unitization, forced-poolin, otherwise) or unit a non-standard unit, eliminating such interest, has been approved by the Division     OPERATOR CERTIFICATION / Amaty certify the the information forced-pooling, etc.?       3413.4'3407.9'	Actual Footage Location	of Well:				nar M			
Ground Level Ear.       Producing Formation       Proof       Interview       Dedicated Acreage:         3417.2'       Rone Spring       40       Acres         1. Outline the acreage dedicated to the while or subserve marks on the plat below.       40       Acres         2. If more than one lease is dedicated to the well, outline each and identify the ornership 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 intration, force-pooling, etc.?         1       I' answer is 'yes' type of consolidation	leet iron	a the NO	RTH line and	560	C	feet from	WES	Tuna	
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### DRILLING PROGRAM

Enron Oil & Gas Company Diamond "7" Federal, Well No. 4 20980' FNL & 260' FWL Sec. 7, T25S, R34E Lea County, New Mexico

#### 1. Geologic Name of Surface Formation:

Permian

## 2. <u>Estmated Tops of Inportant Geologic Markers:</u>

Rustler	850'
Delaware Mt. Group	5175'
Bone Spring Lime	9275 '
3rd Bone Spring Sand	12400'
TD	12650'

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

Upper Permian Sands	100'	Fresh Water
3rd Bone Spring Sand	12400'	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 Diamond "7" Federal, Well No. 4 20980' FNL & 560' FWL Sec. 7, T25S, R34E Lea County, New Mexico

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

<u>Hole Size</u>	<u>Interval</u>	<u>OD csq</u>	<u>Weight Grade Jt. Cond. Type</u>
14-3/4	0- 650'	11-3/4	42# H-40 A ST&C
11	0- 5200'	8-5/8	32# J-55 LT&C
7-7/8	0-12650'	5-1/2	17# P-110 LT&C

#### <u>Cementing Program:</u>

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 (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.



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