Form 3160-3 (July 1992)	UNI DEPARTMEN	HOBBS	5	Dur s 224 Other instru- reverse	actions on	OMB NO. 1904-0136 Expires: February 28, 1995
		F LAND MANA				5. LEASE DEBIGNATION AND SEBIAL NO.
APP	LICATION FOR			EPEN		NM 24490 6. IF INDIAN, ALLOTTEL OR TEIDE NAME
1s. TYPE OF WORK						7 (1) (1) (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1
b. TIPE OF WELL	RILL 🖾	DEEPEN				7. UNIT AGREEMENT NAME
WELL	GAB OTHER		SINGLE X	MULTI Zone	PLE	S. PARM OR LEASE NAME, WELL NO.
2. NAME OF OPERATOR			······································			Diamond 18 Federal #2
ADDRESS AND TELEFICIEN	Gas Company					9. API WELL NO.
	267, Midland, T	exas 79702				10. FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL	(Report location clearly an		th any State requirem	ents.*)		-
At surface 660' FNL & 1	6961 ETH					Red Hills Bond Spring
At proposed prod. x						AND SURVEY OR AREA
<u>660' ENL & 1</u>	980 1 FWL	611	• (_			Sec 18, T25S, R34E
		AREST TOWN OR POS	T OFFICE*			12. COUNTY OR PARISH 13. STATE
29 miles wes	t from Jal, NM		1 19 10 00 10000			Lea NM
LOCATION TO NEAR Property or lease	BT 660		16. NO. OF ACEES I	640		OF ACRES ABSIGNED His Will
(Also to nearest d 15. DISTANCE FROM PB	rlg. unit line, if any)	660	19. PROPOSED DEPTH			BO
TO NEAREST WELL, OR APPLIED FOR, ON 1	DRILLING, COMPLETED, THIS LEASE, FT. 133	20 ' to #1	12600	-		
-	whether DF, RT, GR, etc.)				I Rota	22. APPROL DATE WORK WILL START*
3348' GR						Aug 20, 1994
23.		PROPOSED CAS	ING AND CEMENTIN	G PROGRA	M	· · · · · · · · · · · · · · · · · · ·
SIZE OF HOLE	ORADE, SIZE OF CASINO	WEIGHT PER P	OOT SETTING	DEPTH		QUANTITY OF CEMENT
14-3/4	<u>11-3/4 H-40</u>		650			< <u>CIRCULATED</u>
	8-5/8 J-55	•• {	5200		-1	SX CIRCULATED
7-7/8	5-1/2 P-110	LT&C 17#	126CC		1400 \$	TOC est at 4500'
restriction thereof as NM 2449 Sec 18,	gned accepts all s concerning ope shown below: 0 T25S, R34E ring Formation			ised la OPE PRO POO		1000000000000000000000000000000000000

Acreage	is	dedicated	to	а	pipeline.
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IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertnent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

API NO.

4). (11) (12)

25-31

BIGNED BLETTLY AU CON Betty Gildon	TITLE Regulatory Analyst	DATE 6/17/94
(This space for Federal or State office use)		GETERAL REQUINEDENTS AND
PERSIT NO.	APPROVAL DATE	SPECIAL STIPULATIONS
Application approval does not warrant or certify that the applicant holds legal of CONDITIONS OF APPROVA , IF ANY:		A TRACHED

APPROVED BY BICKER C. Manus TILE	AREA MANAGER	DATE 7-71-94
APPROVED BY		
*C I		

*See Instructions On Reverse Side

District 1 PO 502 1980, Hobbe, NM 12241-1980 District H PO Drawer DD, Artesla, NM 88211-0719 District H1 1000 Rie Brazee Rd., Aztec, NM 87410 District IV PO Bez 2083, Santa Fe, NM 87504-2088 State of New Mexico Energy, Minerals & 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

	API Numb	er	' Pool Code ' Poul Name								
31-1.24	بالفعقد بيسبعي	Nº 4		51020			ed Hills Bon	e Spring			· · · · · · · · · · · · · · · · · · ·
* Property		'Property Name Diamond "18" Federal								Woll Number	
12, 2, 1		Operator Name								·	
'OCRUD	No. 							,			د ملد الد ال 3348 ¹
	37/						& Gas Company	/			0+C
		<u>1</u>		· · · · · · · · · · · · · · · · · · ·		·····,	Location	T	1		· /]
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DRILLING PROGRAM

Enron Oil & Gas Company Diamond "18" Federal, Well No. 2 660' FNL & 1980' FWL Sec. 18, T25S, R34E Lea County, New Mexico

1. <u>Geologic Name of Surface Formation:</u>

Permian

2. Estimated Mops of Inportant Geologic Markers:

Rustler	850'
Delaware Mt. Group	5175'
Bone Spring Lime	9275'
3rd Bone Spring Sand	12400'
TD	12600'

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 "18" Federal, Well No. 2 660' FNL & 1980' FWL Sec. 18, 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
1	0- 5200'	8-5/8	32# J-55 ST&C
7-7/3	0-12600'	5-1/2	17# P-110 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. 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.



EXHIBIT #1