	N.S. 081 601	is. Commi	seinn			
Form 3160-3 (July 1992)		ED STATES	,	SUBMIT IN . R (Other instruc reverse si	ctions on	FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995
	DEPARTMENT				Í	5. LEASE DESIGNATION AND BEBIAL NO.
		LAND MANAG				NM 30400
	ICATION FOR PI	ERMIT TO D	RILL OF	R DEEPEN		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
1a. TYPE OF WORK DR b. TYPE OF WELL		DEEPEN [7. UNIT AGREEMENT NAME
OIL G WELL X W 2. NAME OF OPERATOR	AS OTHER		SINGLE ZONE	MULTIP ZONE		8. FARM OR LEASE NAME WELL NO. Hallwood 12 Federal #10
Enron Oil & Gas	Company	······································				9. API WELL NO.
4. LOCATION OF WELL (R	Midland, Texas		h any State re	quirements.*)		10. FIELD AND POOL, OR WILDCAT Red Hills Bone Spring
At surface 660' FNL & At proposed prod. zor	4 1880' FWL				-	II. SEC., T., B., M., OR BLK. AND SURVEY OR AREA Sec 12, T25S, R33E
Same	AND DIRECTION FROM NEAR	TOT TOPY OF DOST	0			12. COUNTY OR PARISH 13. BTATE
	from Jal, NM	LSI IOWA OR POSI	OFFICE.			Lea NM
15. DISTANCE FROM PROP LOCATION TO NEARES PROPERTY OR LEASE I (Also to nearest dr)	UNE FT. 660	60	16. NO. OF A	CRES IN LEASE		ACRES ASSIGNED IS WELL 80
 DISTANCE FROM FROI TO NEAREST WELL, D OR APPLIED FOR, ON TH ELEVATIONS (Show wh 	osed location [®] Rilling, completed, is lease, ft. 1192' to	#9	19. реорозес 1260		20. ROTAR	Y OR CABLE TOOLS ROTARY 22. APPROX. DATE WORK WILL START*
3409' GR	eller Dr. RI, GR, eu.)					February 28, 1995
23.	· · · · · · · · · · · · · · · · · · ·	PROPOSED CASIN	IG AND CEMI	ENTING PROGRAM	4	February 20, 1995
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FO		ETTING DEPTH		QUANTITY OF CEMENT
14-3/4	11-3/4 H-40 A	ST&C 42#		650	250 s	SX CIRCULATED
11	8-5/8 J-55 ST	&C 24# & 3	2#	5200	1100 s	X CIRCULATED
7-7/8	5-1/2 P-110 L	T&C 17#		12600	1200 s	ex Est TOC at 4500'
The undersigned restrictions co	accepts all ap ncerning operat	plicaple te ions conduc	rms, con ted on 1	ditions, st eased land	ipulati or port	ons, and since thereof.
Federal Bone Nc). is MT 0748 wi	th endorsem	ent to N	ew Mexico		na tina tina tina tina tina tina tina ti
		OPER	. OGRID N	0. 73-	7	
		PHOP	ERTY NO.	1320	29	and and a second se
		POOL	CODE	51500	······································	~
Approval S	ni 1 99 1 99			3 / 77 /	25	
General Ro Special Sti	guireme nts and pulations	API NO	s <u>:</u> 3₽	-025-3	3299	5
N ABOVE SPACE DESCRIB	E PROPOSED PROGRAM: If p nemt data on subsurface location:	roposal is to deepen, g	ive data on pres	ent productive zone a	nd proposed r	new productive zone. If proposal is to drill or
24. Stoven Butter				atory Analy		2/15/05
(This space for Feder	ral or State office use)					
PERMIT NO.	<u></u> .		APPROV	AL DATE		
Application approval does n CONDITIONS OF APPROVAL		icant holds legal or equ	itable title to thos	e rights in the subject le	ease which wou	ald entitle the applicant to conduct operations thereo
ORIG.	SGD.) RICHARD L	" MANUS	AREA N	ANACER		DATE 3-15-95
Title 18 ILS C. Section	1001 makes it a crimo	*See Instruct			ke to any c	lepartment or agency of the

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



And 2 1 1495

CARCE

District I PO Box 1983, Hobbs, NM District II PO Drawer DD, Artesia, NI District III 1000 Rio Brazos Rd., Azte District IV PO Box 2088, Santa Fe, N	L 88211-0719 10, NM 87410		OIL	Minerels & N CONSER PO	lature VA' Boz	lew Mexico al Resources Departs TION DIVISIO x 2088 [87504-208)N Subm	it to App	Instru propriate State Le Fee Le	Form C-102 ruary 21, 1994 ctions on back District Office ase - 4 Copies ase - 3 Copies
	WJ	ELL L	OCATIO	N AND .	ACI	REAGE DEDI	CATION PL	AT		
¹ API Number			² Pool Co	ode			³ Pool Na	ime		
			51020			d Hills Bone	Spring			
*Property Code				-		Name			° W	ell Number
⁷ OGRID No.			!			2" FEDERAL				10
GARD NO.			FNF			GAS COMPANY				Elevation 3409
L						Location				<u></u>
UL or lot no. Section	Township	Range	Lot Idn	Feet from		North/South line	Feet from the	East/Wei	et line	County
C 12	25-S	33-E		660		NORTH	1880	WES		LEA
	I			l	T.f	Different Fi	l	L		
UL or lot no. Section	Township	Range	Lot Idn	Feet from		North/South line	Feet from the	East/We	et line	County
	F									obuity
NO ALLOWABLE W						ON UNTIL ALL EEN APPROVEI	D BY THE DI ¹⁷ OPE ¹⁷ OPE ¹⁸ bereby certification of the section of the	VISION RATOR the the for plate to the f plate to the f glade f glade f atory f	CERT	IFICATION ontathed herein is moviedge and belief.

Signature and Seal of Forlessional Surreyor 8278 Signature and Seal of Forlessional Surreyor Signature and S

DRILLING PROGRAM

Enron Oil & Gas Company Hallwood "12" Federal, Well No. 10 660' FNL & 1880' FWL Sec. 12, T25S, R33E Lea County, New Mexico

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

Permian

2. Estimated Tops of Important Geologic Markers:

Rustler	850'
Delaware Mt. Group	5175'
Bone Spring Lime	9275'
Bone Spring Pay	12225'
TD	12225' 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 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 Hallwood "12" Federal, Well No. 10 660' FNL & 1880' FWL Sec. 12, T25S, R33E Lea County, New Mexico

4. Casing Program:

<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	24# & 32# J-55 ST&C
7-7/8	0- 12600'	5-1/2	17# P-110 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 4500'.

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 3000 psi WP rating.

-2-

ENRON OIL & GAS COMPANY

Hallwood 12 Federal #10



EXHIBIT #1

-

2

Enron Oil & Gas Company Hallwood "12" Federal, Well No. 10 660' FNL & 1880' FWL Sec. 12, T25S, R33E Lea County, New Mexico

6. Types and Characteristics of the Proposed Mud System:

The well will be drilled to TD with a combination of brine, cut brine, and fresh water. The applicable depths and properties of this system are as follows:

<u>Depth</u> 0-650' 650'-5200'	<u>Type</u> Fresh water (spud) Brine water	Weight (ppg) 8.5 10.0	Viscosity (sec) 40-45 	Waterloss (cc) N.C. N.C.
5200'-12600'	Cut Brine	8.8-9.2	28	N.C. N.C.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

- 7. Auxiliary Well Control and Monitoring Equipment:
 - (A) A kelly cock will be kept in the drill string at all times.
 - (B) A full opening drill pipe stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
 - (C) A mud logging unit complete with H2S detector will be continuously monitoring drilling penetration rate and hydrocarbon shows from 4500' to TD.

-3-

Enron Oil & Gas Company Hallwood "12" Federal, Well No. 10 660' FNL & 1880' FWL Sec. 12, T25S, R33E Lea County, New Mexico

8. Logging, Testing and Coring Program:

- (A) The electric logging program will consist of GR-Dual Laterolog-MSFL and GR-Compensated Density-Neutron from TD to intermediate casing with a GR-Compensated Neutron ran from intermediate casing to surface.
- (B) Possible side wall cores based on shows.
- 9. Abnormal Conditions, Pressures, Temperatures & Potential Hazards:

The estimated bottom hole temperature (BHT) at TD is 175 degrees F with an estimated maximum bottom-hole pressure (BHP) of 5900 psig. No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major loss circulation zones have been reported in offsetting wells.

Anticipated Starting Date and Duration of Operations:

Road and location work will not begin until approval has been received from the BLM. Anticipated spud date is unknown at the present time. Once drilling has commenced, the drilling operation should be finished in approximately 30 days. If the well is productive, an additional 30 to 45 days will be required for completion and testing before a decision is made to install permanent facilities.



Kina 2 1 18-15 OFFICE

50/21)9

`