Form 3160-3 (July 1992)

N.M. ~ CONS. COMMISSION P.O. b_X 1980 HORBS, NEW MEXICO 88240 SUBMIT IN TRIF. ATE(Other instructions on reverse side) DEPARTMENT OF THE INTERIOR

FORM APPROVED Expires: February 28, 1995

OMB NO. 1004-0136

DEPARTMENT OF THE INTERIOR				5. LEASE DESIGNATION AND BERIAL NO.		
BUREAU OF LAND MANAGEMENT				NM 19859		
APPLICATION FOR PERMIT TO DRILL OR DEEPEN				6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
DRILL A	DEEPEN 🗌			7. UNIT AGREEMENT NAME		
OIL CAS WELL OTHER	8. FARM OR LEASE HAME, WELL NO.					
2. NAME OF OPERATOR	Hallwood 1 Federal #6					
Enron Oil & Gas Company 3. ADDRESS AND TELEPHONE NO.				9. AM WELL NO.		
P. O. Box 2267, Midland, Tex		(915) 686-371	4	10. FIELD AND POOL, OR WILDCAT		
4. LOCATION OF WELL (Report location clearly and in a At surface 2130' FNL & 660' FEL				Red Hills Bone Spring 11. SEC., T., B., M., OR BLE. AND SUBVEY OR AREA		
At proposed prod. zore 2130' FNL & 660' FEL 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST		Unit H		Sec 1, T25S, R33E		
24 miles west of Jal, NM.	TOWN OR POST O	PFFICE*		12. COUNTY OR PARISH 13. STATE		
13. DISTANCE FROM PROPUSED*	1	6. NO. OF ACRES IN LEASE		Lea NM OF ACRES ASSIGNED HIS WELL		
(Also to nearest drig, unit line, if any) 510		640	_	80		
18. DISTANCE FROM PROFOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1470 * 1		9. PROPOSED DEPTH 12,600	20. ROTA	RY OR CABLE TOOLS Rotary		
21. ELEVATIONS (Show whether DF, RT, GR, etc.)				22. APPROX. DATE WORK WILL START* August 30, 1995		
3452 GR	nosan exanto	AND OCUPATIVE BROCK	.,	August 30, 1993		
	WEIGHT PER FOOT	SETTING DEPTH	.м 	QUANTITY OF CEMENT		
14-3/4 H-40 A ST&C 11-3/4	42#	600	250 s	sx CIRCULATED		
11 J-55 ST&C 8-5/8	32#	5200	1100 s	x CIRCULATED		
The Undersigned accepts all aprestrictions concerning operate as shown below: NM 19859 Sec 1-25S-33E Bone Spring Formation Federal Bond # is MT 0748 with endorsement to New Mexico Approval Subject to General Requirements and Special Stipulations Attached	OPE PRO POC EFF	ER. OGRID NO	27 089 00 195	portions thereof		
N ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If propose deepen directionally, give printent data on subsurface locations and CH.	measured and true v	vertical depths. Give blowout preve	nter program,	if any.		
signification Betty Gi	1don TITLE	Regulatory Anal	yst	7/14/95		
(This space for Federal or State office use)						
PERMIT NO.						
Application approval does $n\times$ warrant or certify that the applicant CONDITIONS OF APPROVAL IF ANY:	holds legal or equital	ble title to those rights in the subject	lease which wo	xild entitle the applicant to conduct operations thereo		
Is Canada Weyl	×.	SSISTANT AREA ALLEA	(s. ***	8.25.95		

District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV PO Box 2088, 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 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

_ AMENDED REPORT

		T/	YELL LO	OCATIO	N AND ACI	REAGE DEDI	ICATION PL	AT	ן איניים	NDED REPUI
1 AJ	PI Number			² Pool Co	ode		³ Pool Na	me		
30.02	30-025-33079			51020	Re	Red Hills Bone Spring				
4 Property	Code		. I			⁶ Property Name ⁶ Well Number				
1608	9	HALLWOOD "				1" FEDERAL				6
7 OGRID					8 Operator	Name			9	Elevation
	7377			EN	RON OIL AND	GAS COMPAN	Y			3452
				1	^o Surface I	Location				
UL or lot no.	Section	Township	Range	Lot Idn		North/South line	Feet from the	East/Wee	st line	County
Н	1	25-S	33-E		2130	NORTH	660	EAS	ST	LEA
	1	11	Bottom	Hole	Location If	Different F	rom Surfac	:e		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	st line	County
Dedicated Acr	es 13 Joint	or Infill 14	Consolidatio	n Code 15	Order No.	<u></u>		. ,		
80		ļ								
16		OR A	NON-ST	ANDARD	UNIT HAS B	ON UNTIL ALL EEN APPROVE	D BY THE DI 17 OPEI 1 hereby certification and communication Signature Bett Printed Nam Regu	RATOR Ty that the in plete to the b	CERT	IFICATION contained herein is knowledge and beli-
							I hereby certification for	VEYOR by that the recom field notes supervision, and t of my balled JUNE 100 100 100 100 100 100 100 1	nii loostion oof sotusi nd that the	SURVEYOR

Certificate Number

8278

DRILLING PROGRAM

Enron Oil & Gas Company
Hallwood "1" Federal, Well No. 6
2130' FNL & 660' FEL
Sec. 1, T25S, R33E
Lea County, New Mexico

1. Geologic Name of Surface Formation:

Permian

2. Estimated Tops of Important Geologic Markers:

Rustler	850'
	030.
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 650' and circulating cement back to surface, and 8-5/8" casing will be set at 5200' with cement circulated back to surface.

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4. Casing Program:

<u> Hole Size</u>	<u> Interval</u>	OD csq	Weight Grade Jt. Cond. Type
14-3/4	0- 600'	11-3/4	42# H-40 A ST&C
11	0- 5200'	8-5/8	32# J-55 ST&C
7-7/8	0- 12600'	5-1/2	17# P-110 LT&C
			& S-95

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.

ENRON OIL & GAS COMPANY

Hallwood 1 Federal #6

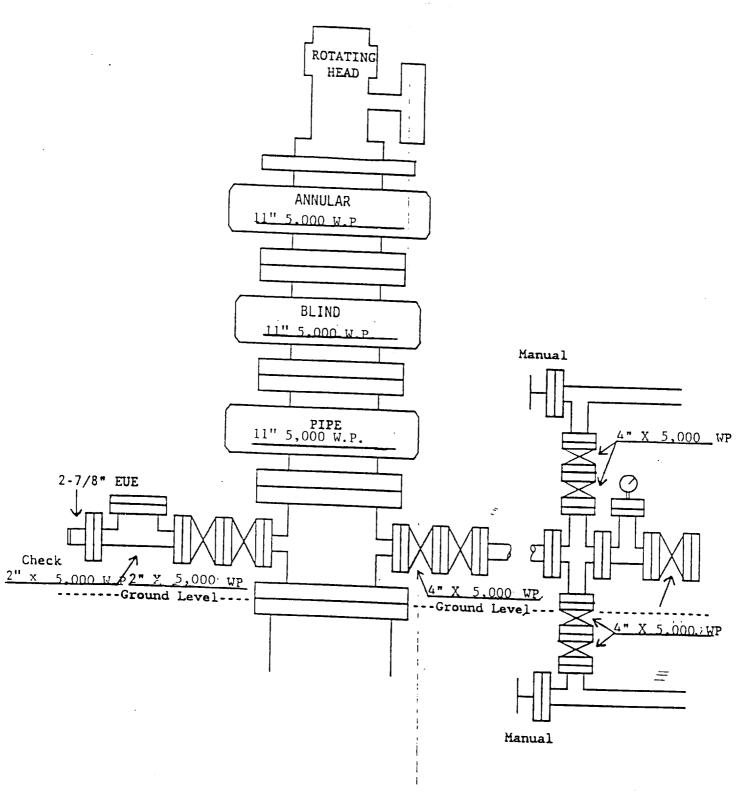


EXHIBIT #1

Enron Oil & Gas Company
Hallwood "1" Federal, Well No. 6
2130' FNL & 660' FEL
Sec. 1, 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> 0-600' 600'-5200' 5200'-12600'	Type Fresh water (spud) Brine water Cut Brine	Weight (ppg) 8.5 10.0 8.8-9.2	Viscosity(sec) 40-45 30 28	Waterloss (cc) N.C. N.C. N.C.
		-	20	14. 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.

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3. 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.

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