Form 3160-3 (July 1992)

# N.M. OIL CONS. COMMISSION

SUBMIT IN TRIPLICATE\* (Other instructions on reverse side)

FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995

P.O. BOX 1980 UNITED STATES
HOBES NEW MEN'S F88240 INTERIOR

3415' GR  PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF HOLE GRADER SIZEOFCASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT  14-3/4 11-3/4 H-40 A ST&C 42# 650 250 sx Circulated  11 8-5/8 J-55 ST&C 32# 5200 1100 sx Circulated  7-7/8 5-1/2 P-110 LT&C 17# 6500 1200 sx 5-1/2 S-95 LT&C 17# 12600 TOC est at 4500'  The undersigned accepts all applicable temrs, conditions, stipulations, and restrictions concerning operatiooperprograms whom leaves and or portions thereof as shown below:  PROPERTY NO. 15 412  NM 18640-A Sec 6, T25s, R34E Bone Spring Form. Federal Bond is MT 0748 with APINO 3D D 25-37811  endorsement to New Mexicon Spring Form. Federal Bond is MT 0748 with APINO 3D D 25-37811  Acreage is dedicated to a pipeline.  NABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to defill depths. Give blowout preventer program, if any.	HOL	<b>SEED THE MINIST</b>					5. LEASE DESIGNATION AND SERIAL NO.		
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Entron 011 & Gas Company  Figure 2 of the Company  Figure 3 of the Company  Figure 4 of the Comp	oir 🗀 c	AS T				PLE	8. FARM OR LEASE NAME, WELL NO.		
Entron 011 & Gas Company  P. O. Box 2267, Midland, Tx 79702  P. O. Box 2267, Midland, Tx 79702  10. FILL DATE FORL. OF WILL (Report Iosation of early and in accordance with any State requirements.*)  Red. Hills Bone Spring  Red. Hills Bone  Red. Hills Bone  Red. Hills Bone  Red. Hills Bone  Re		ELL OTHER		20	2002		Half 6 Federal #4		
P. O. BOX 2267, Midland, TX 79702  COCATION OF WILL (Report location death) and in accordance with any State requirements.)  Red Hills Bone Spring  11. MC. T. M. O. BERT AND POOL OF FEL  12. STATE OF STATE OF STATE OF STATE  25. MILES AND DEACTION FOR MALE AND DEACTOR FROM NEW PARKET TOWN ON PONT OFFICE*  15. CONTROL OF MILES AND DEACTOR FROM NEW PARKET TOWN ON PONT OFFICE*  25. MILES WEST OF Jal, NM  25. MILES AND DEACTOR FROM NEW PARKET TOWN ON PONT OFFICE*  25. MILES AND DEACTOR FROM NEW PARKET TOWN ON PONT OFFICE*  26. MILES AND DEACTOR FROM NEW PARKET TOWN ON PONT OFFICE*  26. MILES AND DEACTOR FROM NEW PARKET TOWN ON PONT OFFICE*  26. MILES AND DEACTOR FROM NEW PARKET TOWN ON PONT OFFICE*  26. MILES AND DEACTOR FROM NEW PARKET TOWN ON PONT OFFICE*  26. MILES AND DEACTOR FROM NEW PARKET TOWN ON PONT OFFICE*  27. MILES AND DEACTOR FROM NEW PARKET TOWN ON PONT OFFICE*  28. COLUMN OF TOWN OF A CREEK BERNOOD NEW PARKET TOWN ON PONT OFFICE*  29. MILES AND DEACTOR FROM NEW PARKET TOWN ON PONT OFFICE*  10. NOT A CREEK TOWN OF A CREEK BERNOOD NEW PARKET TOWN ON PONT OFFICE*  11. NO. OF ACRES IN TOWN OF A CREEK TOWN OF A CREEK BERNOOD NEW PARKET TOWN OF A CREEK TOWN OF A CREEK BERNOOD NEW PARKET TOWN OF A CREEK TOWN OF A CREEK BERNOOD NEW PARKET TOWN OF A CREE		& Cas Company					9. AM WELL NO.		
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**ROCATION OF WALL (Report locations clearly and in accordance with any State requirements.*)  **Rot of Side 560** FEL **  **A infraces** B10** FSL & 660** FEL **  **A proposed prod. some **  **A prod. some *	P. O. Box	2267, Midland	Tx 797	702					
Sec 6, T25s, R34E  10. FSL 660' FSL 660' FSL 600' FSL 600' FSL 600' FSL 650' FSL 650	LOCATION OF WELL (F	eport location clearly ar	d in accords	ince with any S	tate requirements.*)				
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SIZE OF ROLE    GRADE SHEDT PERSONNELL SHEDT POR POOT   SETTING REPTH   QUANTITY OF CRMENT     14-3/4	3415' GR						January 1995		
14-3/4   1-3/4   1-3/4   1-40   A STEC   42#   5200   1100 sx Circulated   11   8-5/8   J-55 STEC   32#   5200   1100 sx Circulated   17-7/8   5-1/2 P-110 LT&C   17#   6500   1200 sx   5-1/2 S-95 LT&C   17#   12600   TOC est at 4500'    The undersigned accepts all applicable temrs, conditions, stipulations, and restrictions concerning operatiooperprise	23.		PROPOSE	D CASING AND	CEMENTING PROGR	AM			
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restrictions concerning operatiooperprograms and or portions thereof as shown below:  PROPERTY NO. 15 412  NM 18640-A Sec 6, T25S, R34E Bone Spring Form. Federal Bond is MT 0748 with APINO. 3D 125-37B11 endorsement to New Mexicon and Proposed to Subject	, -		•			_			
TITLE Regulatory Analyst    DATE   12/6/94	as shown  NM 1864 Sec 6, Bone Sp Federal endors	below:  0-A T25S, R34E  oring Form. Bond is MT 07  sement to New M	48 with exico a pipe	PROPERT POOL CO EFF. DAT API NO. TANNEL RESERVE COLOR STANDAR TO GEORGE STANDAR TO G	TYNO. 1541  DE 5182  E 1-18  30-025-  10 10  TOTAL STATE AND AND ADDRESS AND A	2 PF 318	ed new productive zone. If proposal is to drill o		
Regulatory Analyst    DATE   12/6/94	deepen directionally, give per 24.	tunent data an substituce local	COLO ALE HICES						
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Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations the CONDITIONS OF APPROVAL IF ANY:  APPROVED BY  DATE	(This space for Fed	leral or State office use)					<del></del>		
APPROVED BY June P. OBUTITLE AREA MANAGER  DATE 12-21-94	PERMIT NO.								
APPROVED BY June P. OBUTITLE AREA MANAGER  DATE 12-21-94	Application approval doe	s not warrant or certify that the	applicant holds	legal or equitable ti	tle to those rights in the subje	et lease which	would entitle the applicant to conduct operations the		
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	APPROVED BY	movy !	**		O- Pausas C: J.				

JAN 0 6 1935 CCD HOBBS OFFICE 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

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

#### PO Box 2088, Santa Fe, NM 87504-2088 AMENDED REPORT WELL LOCATION AND ACREAGE DEDICATION PLAT 3 Pool Name <sup>2</sup> Pool Code API Number 25-375i 51020 Red Hills Bone Spring <sup>6</sup> Well Number <sup>5</sup>Property Name 15412 HALF "6" FEDERAL 4 Operator Name <sup>9</sup> Elevation 7 OGRID No. ENRON OIL AND GAS COMPANY 3415 7377 <sup>10</sup>Surface Location Feet from the North/South line Lot Idn Feet from the East/West line County UL or lot no. Section Township Range SOUTH 660 **EAST** LEA Ρ 6 25-S 34-E 810 Bottom Hole Location If Different From Surface Lot Idn Feet from the North/South line Feet from the East/West line County UL or lot no. Section Township Range 12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No. 80 NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 16 OPERATOR CERTIFICATION Betty Gildon Printed Name Regulatory Analyst Title 11/21/94 Dete 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to best of my belief. M F00%

Date of Survey Signature and Sea

Certificate Number

660'

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8278

8278



JAM OF 1985 OCD HOBBS OFFICE

#### DRILLING PROGRAM

Enron Oil & Gas Company
Half 6 Federal, Well No. 4
810' FSL & 660' FEL
Sec. 6, T25S, R34E
Lea County, New Mexico

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

Permian

### 2. Estmated Tops of Inportant Geologic Markers:

Rustler	850'
Delaware Mt. Group	5175'
Bone Spring Lime	9275'
Bone Spring Pay	12300'
TD	12600'

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

Upper Permian Sands	100'	Fresh Water
3rd Bone Spring Sand	12300'	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
Half 6 Federal, Well No. 4
810' FSL & 660' FEL
Sec. 6, T25S, R34E
Lea County, New Mexico

#### 4. Casing Program:

Hole Size	<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'-12600'	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 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 5000 psi WP rating.

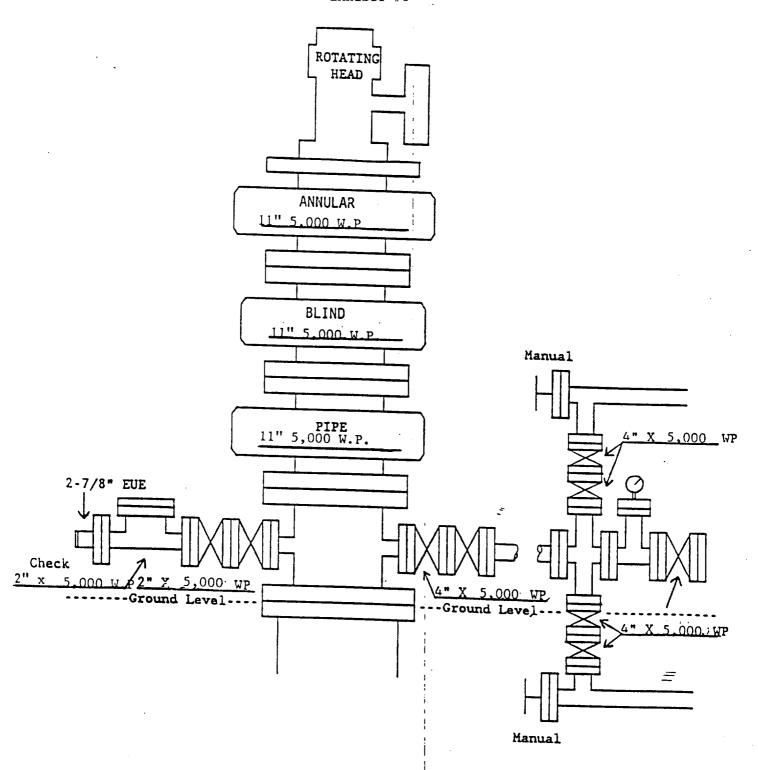


JAM D R 1835 UCD MOSSS OFFICE

# ENRON OIL & GAS COMPANY

Half 6 Federal No. 4

EXHIBIT #1 -



Enron Oil & Gas Company
Half 6 Federal, Well No. 4
810' FSL & 660' FEL
Sec. 6, T25S, R34E
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 polymer/KCl mud system. The applicable depths and properties of this system are as follows:

<u>Depth</u> 0-650' 650'-5200' 5200'-TD	Type Fresh water (spud) Brine water Cut Brine & Polymer/KCL	Weight (ppg) 8.5	Viscosity <u>(sec)</u> 40-45 30 28	Waterloss (cc) N.C.
		10.0 8.8-9.2		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 10,000' to TD.

Enron Oil & Gas Company
Half 6 Federal, Well No. 4
810' FSL & 660' FEL
Sec. 6, T25S, R34E
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:

No abnormal pressures or temperatures are anticipated. The estimated bottom hole temperature (BHT) at TD is 175 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD 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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