

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL WELL ☒

GAS WELL ☐

OTHER ☐

SINGLE ZONE ☐

MULTIPLE ZONE ☐

2. NAME OF OPERATOR

Enron Oil & Gas Company

3. ADDRESS OF OPERATOR

P. O. Box 2267, Midland, Texas 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

660' FSL & 660' FEL

At proposed prod. zone

660' FSL & 660' FEL

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

29 miles west from Jal

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

660'

660'

16. NO. OF ACRES IN LEASE

1399.89

17. NO. OF ACRES ASSIGNED TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

1320'

19. PROPOSED DEPTH

12600

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, ET, GR, etc.)

3367.5' GR

22. APPROX. DATE WORK WILL START\*

September 1, 1993

PROPOSED CASING AND CEMENTING PROGRAM

No Water Basin

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT      | SETTING DEPTH | QUANTITY OF CEMENT    |
|--------------|----------------|----------------------|---------------|-----------------------|
| 14-3/4       | 11-3/4         | 42# H-40 A ST&C      | 650'          | 250 sx CIRCULATED     |
| 11           | 8-5/8          | 24# & 32# J-55 ST&C  | 5200'         | 1100 sx CIRCULATED    |
| 7-7/8        | 5-1/2          | 17# J-55 & N-80 STUC | 12600'        | 1200 sx Est TOC 7500' |

Acreage is Dedicated

Approval Subject to  
General Requirements and  
Special Stipulations  
Attached

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

SIGNED

Betty Gildon

Betty Gildon

TITLE

Regulatory Analyst

DATE

6/4/93

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

Babbe P. Young

TITLE

AREA MANAGER

DATE

AUG 11 1993

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

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 United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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

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

DISTRICT III

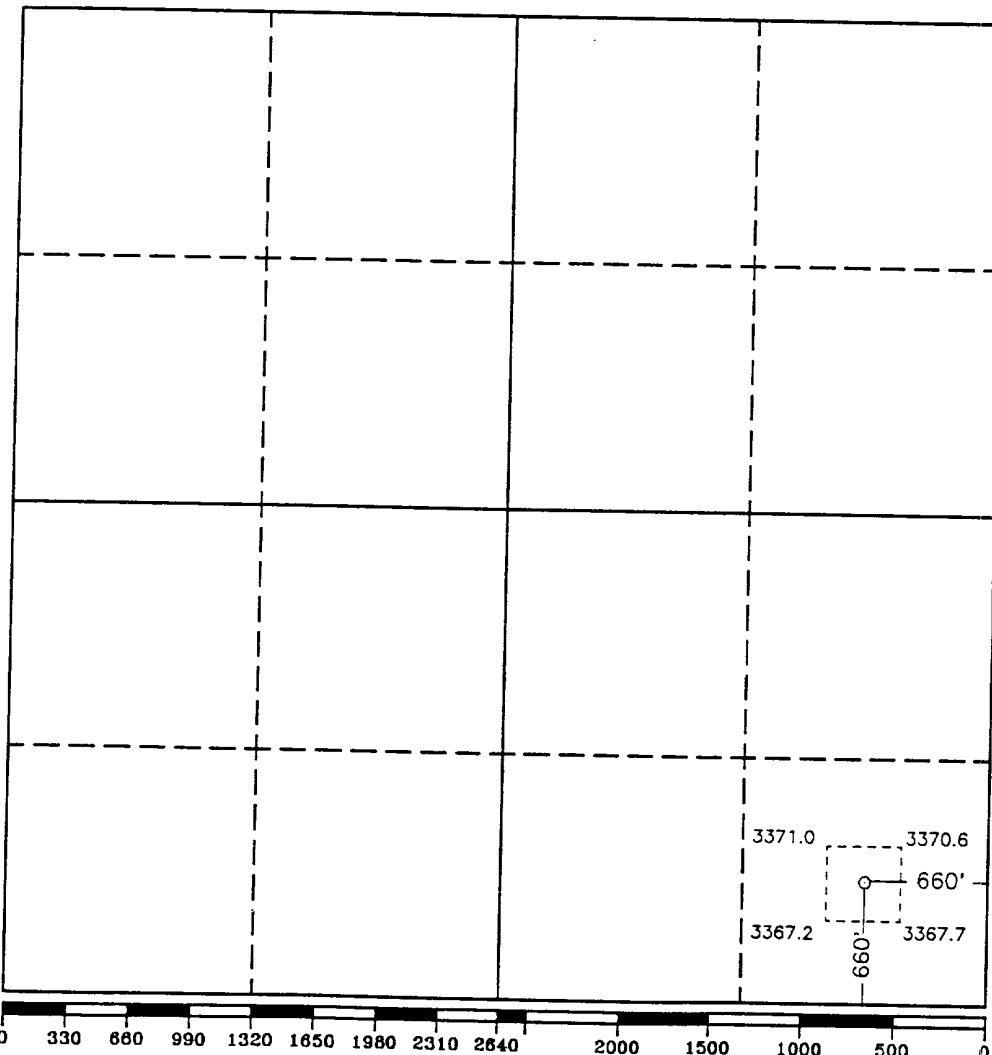
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

|  |                                    |                      |                                |      |               |
|--|------------------------------------|----------------------|--------------------------------|------|---------------|
| Operator<br>ENRON OIL AND GAS CO.  |                                    |                      | Lease<br>HALLWOOD "12" FEDERAL |      | Well No.<br>3 |
| Unit Letter<br>P   | Section<br>12                      | Township<br>25 SOUTH | Range<br>33 EAST               | NMPM | County<br>LEA |
| Actual Footage Location of Well:<br>660 feet from the SOUTH line and 660 feet from the EAST line |                                    |                      |                                |      |               |
| Ground Level Elev.<br>3367.5   | Producing Formation<br>Bone Spring | Pool<br>Red Hills    | Dedicated Acreage:<br>40 Acres |      |               |

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
  2. If more than one lease is 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 by communitization, unitization, force-pooling, etc.?  
☐ Yes ☐ No If answer is "yes" type of consolidation \_\_\_\_\_
- If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.) \_\_\_\_\_
- No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

Signature  
*Betty Gildon*  
Printed Name  
Betty Gildon  
Position  
Regulatory Analyst  
Company  
Enron Oil & Gas Company  
Date  
5/17/93

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 the best of my knowledge and belief.

Date Surveyed  
MAY 2, 1993

Signature & Seal of  
Professional Surveyor

*Gary L. Jones*  
GARY L. JONES  
NEW MEXICO  
1977  
Certification No. JOHN W. WEST 878  
RONALD J. EDSON 3239  
GARY L. JONES 7977  
REGISTERED PROFESSIONAL SURVEYOR

## DRILLING PROGRAM

Enron Oil & Gas Company  
Hallwood "12" Federal, Well No. 3  
660' FSL & 660' FEL  
Sec. 12, T25S, R33E  
Lea County, New Mexico

1. Geologic Name of Surface Formation:

Permian

2. Estimated Tops of Important Geologic Markers:

|                    |        |
|--------------------|--------|
| Rustler            | 850'   |
| 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> | <u>OD csg</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# J-55 & N-80 ST&C               |

Cementing Program:

- 11-3/4" Surface casing: Cement to surface with 250 sx of Class C + 2% CaCl<sub>2</sub> + 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% CaCl<sub>2</sub>
- 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 (3000 psi WP) preventer and an annular preventer (3000 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 3000 psi and the annular to 70% of rated working pressure (2100 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.

EXHIBIT 1

ENRON OIL & GAS COMPANY

ATTACHMENT

