



**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

**OPERATOR'S COPY**

**FORM APPROVED  
OMB NO. 1004-0137**

Expires: November 30, 2000

1a. Type of Well  Oil Well  Gas Well  Dry  Other  
 b. Type of Completion:  New Well  Work Over  Deepen  Plug Back  Diff. Resvr.,  
 Other

5. Lease Serial No.  
NM24490

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.  
Diamond 18 Fed No. 7

9. API Well No.  
30-025-34648 **34659**

10. Field and Pool, or Exploratory  
Red Hills (Bone Springs)

11. Sec., T., R., M. On Block and Survey or Area  
18,25S,34E

12. County or Parish  
Lea

13. State  
NM

17. Elevations (DF, RKB, RT, GL)\*  
GL3346 KB 3364.5

2. Name of Operator  
Enron Oil & Gas Company

3. Address  
P.O. Box 2267

3a. Phone No. (include area code)  
(915)686-3714

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*

At surface 990' FSL & 330' FWL

At top prod. interval reported below Same

At total depth Same

14. Date Spudded  
7/21/99

15. Date T.D. Reached  
8/12/99

16. Date Completed  
 D&A  Ready to Prod.  
**10-9-99**

18. Total Depth: MD 12,550' TVD  
19. Plug Back T.D: MD 12,392' TVD  
20. Depth Bridge Plug Set: MD N/A TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

GR Digital Acoustilog, GR Compensated Z Densilog

22. Was well cored?  No  Yes (Submit analysis)  
 Was DST run?  No  Yes (Submit report)  
 Directional Survey?  No  Yes (Submit report)

23. Casing and Liner Record (Report all strings set in well)

| Hole Size | Size/Grade        | Wt. (#/ft) | Top (MD) | Bottom (MD) | State Cementer Depth | No of Sks & Type of Cement | Slurry Vol. (BBL) | Cement Top* | Amount Pulled      |
|-----------|-------------------|------------|----------|-------------|----------------------|----------------------------|-------------------|-------------|--------------------|
| 14-3/4    | <b>11-3/4</b> H40 | 42         | Surface  | 658.92      | N/A                  | 450 Prem Plus              | 76.94             | Surface     | 55 sx to res bit.  |
| 11        | 8-5/8 HCK         | 32         | Surface  | 5026        | N/A                  | 1250 Interfill             | 490               | 350'        | Temp survey @ 350' |
| 7-7/8     | 5-1/2 P110        | 17         | Surface  | 12,435      | N/A                  | 1110 Prem                  | 500               | 4500        | N/A                |

24. Tubing Record

| Size  | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set MD | Packer Depth (MD) |
|-------|----------------|-------------------|------|----------------|-------------------|------|--------------|-------------------|
| 2-7/8 | 11885'         | 11659'            |      |                |                   |      |              |                   |

25. Producing Intervals

| Formation          | Top   | Bottom | Perforated Interval | Size | No. Holes | Perf Status        |
|--------------------|-------|--------|---------------------|------|-----------|--------------------|
| A) 3rd Bone Spring | 12186 | 12201  | 12186-12201         | 0.4  | 60        | 4 SPF 15' @ 60 deg |
| B)                 |       |        |                     |      |           |                    |
| C)                 |       |        |                     |      |           |                    |
| D)                 |       |        |                     |      |           |                    |

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

| Depth Interval | Amount and Type of Material                                       |
|----------------|---|
| 12,186-12,201  | 91,000 gel Medallion with 30% CO2 with 130,000# interprop ceraman |

28. Production - Interval A

| Date First Produced | Test Date           | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|---------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
| 9/1/99              | 9/28/99             | 24           | →               | 50      | 100     | 35        | 40                    |             | Pump              |
| Choke Size          | Tbg. Press Flwg. SI | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas : Oil Ratio       | Well Status |                   |

28a. Production - Interval B

| Date First Produced | Test Date           | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|---------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
|                     |                     |              | →               |         |         |           |                       |             |                   |
| Choke Size          | Tbg. Press Flwg. SI | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas : Oil Ratio       | Well Status |                   |

(See instructions and spaces for additional data on reverse side)

**ACCEPTED FOR RECORD**  
*David R. Glass*  
 NOV 15 1999

**28b. Production - Interval C**

| Date First Produced | Test Date                 | Hours Tested | Test Production<br>→ | Oil BBL | Gas MCF | Water BBL | Oil Gravity<br>Corr. API | Gas Gravity | Production Method |
|---------------------|---------------------------|--------------|----------------------|---------|---------|-----------|--------------------------|-------------|-------------------|
| Choke Size          | Tbg. Press<br>Flwg.<br>SI | Csg. Press.  | 24 Hr. Rate<br>→     | Oil BBL | Gas MCF | Water BBL | Gas : Oil Ratio          | Well Status |                   |

**28c. Production - Interval D**

| Date First Produced | Test Date                 | Hours Tested | Test Production<br>→ | Oil BBL | Gas MCF | Water BBL | Oil Gravity<br>Corr. API | Gas Gravity | Production Method |
|---------------------|---------------------------|--------------|----------------------|---------|---------|-----------|--------------------------|-------------|-------------------|
| Choke Size          | Tbg. Press<br>Flwg.<br>SI | Csg. Press.  | 24 Hr. Rate<br>→     | Oil BBL | Gas MCF | Water BBL | Gas : Oil Ratio          | Well Status |                   |

**29. Disposition of Gas (Sold, used for fuel, vented, etc.)**

Sold

**30. Summary of Porous Zones (Include Aquifers):**

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

**31. Formation (Log) Markers**

| Formation                           | Top  | Bottom | Descriptions, Contents, etc. | Name            | Top         |
|-------------------------------------|------|--------|------------------------------|-----------------|-------------|
|                                     |      |        |                              |                 | Meas. Depth |
| Delaware & Bone Springs<br>Wolfcamp | 0    | 1100   | Surface Rock, Salt           | Delaware        | 5188        |
|                                     | 1100 | 4950   | Salt, Anhy                   | Bone Spring     | 9114        |
|                                     | 4590 | 9575   | Lime, Salt                   | 3rd Bone Spring | 12,186      |
|                                     | 9575 | 12550  | Sand                         | Wolfcamp        | 12,337      |

**32. Additional remarks (include plugging procedure):**

**33. Circle enclosed attachments:**

- 1. Electrical/Mechanical Logs (1 full set req'd)
- 2. Geologic Report
- 3. DST Report
- 4. Directional Survey
- 5. Sundry Notice for plugging and cement verification
- 6. Core Analysis
- 7. Other:

**34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):**

Name (please print) Mike Francis Title Agent

Signature *Mike Francis* Date 10/28/99

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212 make 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.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OPERATOR'S COPY

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

|  |   |
|--|---|
| 1. Type of Well<br><input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other | 5. Lease Designation and Serial No.<br><b>NM 24490</b>                    |
| 2. Name of Operator<br><b>Enron Oil &amp; Gas Company</b>  | 6. If Indian, Allottee or Tribe Name                                      |
| 3. Address and Telephone No.<br><b>P.O. Box 2267 Midland, TX 79702 915/686-3600</b>  | 7. If Unit or CA, Agreement Designation                                   |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)<br><b>990' FSL &amp; 330' FWL<br/>Sec. 18, T25S, R34E</b> | 8. Well Name and No.<br><b>Diamond "18" 7<br/>Federal</b>                 |
|  | 9. API Well No.<br><b>30-025-34659</b>                                    |
|  | 10. Field and Pool, or exploratory Area<br><b>Red Hills (Bone Spring)</b> |
|  | 11. County or Parish, State<br><b>Lea County NM</b>                       |

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION                                    | TYPE OF ACTION  |
|---|---|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Abandonment                                    |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Recompletion                                   |
| <input type="checkbox"/> Final Abandonment Notice     | <input type="checkbox"/> Plugging Back                                  |
|   | <input type="checkbox"/> Casing Repair                                  |
|   | <input type="checkbox"/> Altering Casing                                |
|   | <input checked="" type="checkbox"/> Other <b>Csg. cement &amp; test</b> |
|   | <input type="checkbox"/> Change of Plans                                |
|   | <input type="checkbox"/> New Construction                               |
|   | <input type="checkbox"/> Non-Routine Fracturing                         |
|   | <input type="checkbox"/> Water Shut-Off                                 |
|   | <input type="checkbox"/> Conversion to Injection                        |
|   | <input type="checkbox"/> Dispose Water                                  |

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

07/21/99-Spud Well at 8:00 P.M.  
 07/22/99-Ran 16 jts. of 11-3/4", 42#, H-40, STC casing and set at 658.92'.  
 Cement with 300sx of cement. Slurry 1-Premium + 3% econolite + 2% CaCl 1/4 #/sx flocele, 17.7 #/gal, 2.88 ft3/sx, 76.94 bbls. Slurry 2-150sx Premium + 2% CaCl. Circulated 55sx of cement to reserve pit. WOC for 22 hours and test casing to 600# for 30 minutes. OK.  
 07/28/99-Ran 114 jts. of 8-5/8", 32#, HCK-55/J-55, 8rd casing and set at 5026'.  
 Cement with 1250sx of cement. Slurry 1-1000sx Interfill "C" + 1/4#/sx flocele, 11.9 #/gal, 2.46 ft3/sx, 430 bbls. Slurry 2-250sx Premium plus + 2% CaCl, 14.8 #/gal, 1.34 ft3/sx, 60 bbls.  
 07/29/99-TOC@350'(temp.) WOC for 36.5 hours and test casing to 5000# for 30 minutes. OK.  
 08/12/99-TD well at 12550' at 3:30 P.M.  
 08/14/99-Log well with Density Neutron/GR/Acoustic.  
 08/16/99-Ran 276 jts of 5-1/2", 17#, P-110, 8rd casing and set at 12435.93'.  
 Cement with 1110sx of cement. Slurry 1-860sx Premium + 3% econolite + 5#/sx salt 2% HR + 1/4#/sx flocele, 11.5 #/gal, 2.90 ft3/sx, 444 bbls. Slurry 2-250sx Premium 50/50 POZ + 2% gel + 5/10% Halad-322, 14.2 #/gal, 1.25 ft3/sx, 56 bbls. WOC for 5.5 hours and test casing to 10000# for 30 minutes. OK. TOC@5000'(calc.) PBTD@12392'

14. I hereby certify that the foregoing is true and correct.

Signed *Mike Francis* Title Mike Francis, Agent Date 09/19/99

(This space for Federal or State office use)

Approved by **SEP 21 1999** Title (ORIG. SGD.) GARY GOURLEY Date \_\_\_\_\_

Conditions of approval, if any: \_\_\_\_\_

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.

**Diamond "18" Federal No. 7**

**WORKING INTEREST OWNERS**

**Enron Oil & Gas Company  
P.O. Box 2267  
Midland, Texas 79702**

**WORKING INTEREST**

**100.0000**