

STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. PACHECO  
SANTA FE, NEW MEXICO 87505  
(505) 827-7131

December 2, 1996

Enron Oil & Gas Company  
P. O. Box 2267  
Midland, Texas 79702  
Attention: Betty Gildon

Administrative Order TX-255

Dear Ms. Gildon:

Reference is made to your request for an exception to the tubing setting requirements as contained in Division Rule 107 (d) (3) for the below-named well.

Pursuant to the authority granted me by Rule 107 (d) (4), you are hereby authorized to make a tubingless completion in the following well:

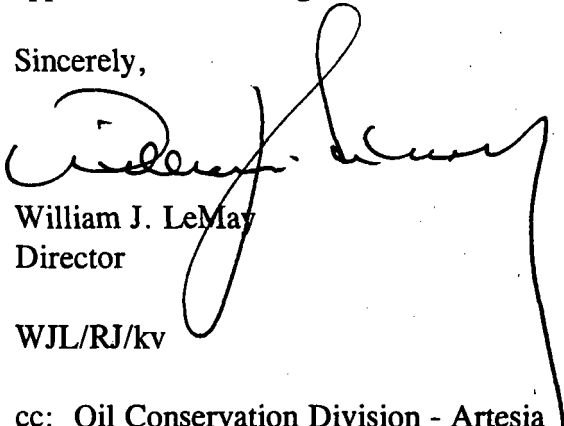
Well Name and Number: James Ranch Unit Well No. 76

Location: Unit E, Section 6, Township 23 South, Range 31 East, NMPM, Eddy County, New Mexico

Remarks: When well ceases to flow production tubing will be required.

The Division reserves the right to rescind this authority in the event that waste appears to be resulting therefrom.

Sincerely,



William J. LeMay  
Director

WJL/RJ/kv

cc: Oil Conservation Division - Artesia

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CONSERVATION DIVISION  
RECEIVED

**ENRON**  
**Oil & Gas Company**

96 NOV 14 AM 8 52

P. O. Box 2267 Midland, Texas 79702 (915) 686-3600

Mr. William J. LeMay, Director  
New Mexico Oil Conservation Commission  
2040 S. Pacheco St  
Santa Fe, New Mexico 87505-5472

November 14, 1996

Re: James Ranch Unit No. 76  
Sec 6, T23S, R31E  
South Los Medanos Field  
Lea County, New Mexico

Dear Mr. LeMay:

Enron Oil & Gas respectfully requests your approval to complete and produce the above-referenced well from the Wolfcamp formation ( perforations 11122 - 11137) without the use of production tubing . The referenced well contains the following tubulars:

| <u>CASING</u> | <u>GRADE</u> | <u>DEPTH</u> | <u>TOP OF CEMENT</u> |
|---------------|--------------|--------------|----------------------|
| 11-3/4"       | H-40         | 582          | Circulated           |
| 8-5/8"        | J-55         | 3724         | Circulated           |
| 5-1/2"        | CF-95/P-110  | 11250        | 3150                 |

The well was fracture treated via the 5-1/2" production casing and has been allowed to flowback through that casing to achieve faster cleanup and to minimize the risk of formation damage. Our plans are to install 2-7/8" production tubing when the well ceases to flow, which should occur within the first year or two of production.

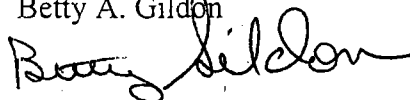
We believe this "tubingless" completion technique is completely safe and effective for the following reasons:

- The well is in a known producing field
- No corrosive or pressure problems are know to exist
- The well is a single completion
- The 5-1/2" production string has been cemented into the base of the 8-5/8" casing
- The 5-1/2" is very high strength casing
- The stabilized after-frac flowing tubing pressures are low (less than 1,000 psig)
- The technique lowers the cost of the completion, thereby improving the economics of the project

Thank you for your consideration of this request. If you need additional information, please contact me.

Sincerely,

Betty A. Gildon



Regulatory Analyst

cc: NMOCD-HOBBS

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**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

SUBMIT IN DUPLICATE\*

(See other instructions on reverse side)

FORM APPROVED  
OMB NO. 1004-0137  
Expires: February 28, 1995

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG\***

|  |  |   |  |  |  |   |  |
|--|--|---|--|--|--|---|--|
| 1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> Other _____  |  |   |  |  |  | 7. UNIT AGREEMENT NAME  |  |
| b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other _____ |  |   |  |  |  | 8. FARM OR LEASE NAME, WELL NO.<br>James Ranch Unit 76                |  |
| 2. NAME OF OPERATOR<br>Enron Oil & Gas Company   |  |   |  |  |  | 9. API WELL NO.<br>30 015 29173                                       |  |
| 3. ADDRESS AND TELEPHONE NO.<br>P.O. Box 2267 Midland, TX 79702 915/686-3714   |  |   |  |  |  | 10. FIELD AND POOL, OR WILDCAT<br>South Los Medanos (Wolfcamp)        |  |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*<br>At Surface<br>1900' FNL & 360' FWL<br>At top prod. interval reported below<br>Same<br>At total depth<br>Same                 |  |   |  |  |  | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA<br>Sec 6, T23S, R31E |  |
| 14. PERMIT NO.   |  |   |  | DATE ISSUED<br>9/9/96                          |  | 12. COUNTY OR PARISH<br>Eddy  |  |
|  |  |   |  |  |  | 13. STATE<br>New Mexico   |  |
| 15. DATE SPUDDED<br>9/29/96  |  | 16. DATE T.D. REACHED<br>10/12/96   |  | 17. DATE COMPL. (Ready to prod.)<br>10/23/96   |  | 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*<br>3299' GR                   |  |
|  |  |   |  |  |  | 19. ELEV. CASINGHEAD<br>3299'   |  |
| 20. TOTAL DEPTH, MD & TVD<br>11250   |  | 21. PLUG, BACK T.D., MD & TVD<br>11224  |  | 22. IF MULTIPLE COMPL., HOW MANY*              |  | 23. INTERVALS DRILLED BY<br>→   |  |
|  |  |   |  |  |  | ROTARY TOOLS<br>X   |  |
|  |  |   |  |  |  | CABLE TOOLS   |  |
| 24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*<br>11122' - 11137 (Wolfcamp)   |  |   |  |  |  | 25. WAS DIRECTIONAL SURVEY MADE<br>No                                 |  |
| 26. TYPE ELECTRIC AND OTHER LOGS RUN<br>DILL, SDL-DSN  |  |   |  |  |  | 27. WAS WELL CORED<br>No  |  |
| 28. CASING RECORD (Report all strings set in well)   |  |   |  |  |  |   |  |
| CASING SIZE/GRADE  |  | WEIGHT, LB./FT.   |  | DEPTH SET (MD)                                 |  | HOLE SIZE   |  |
| 11-3/4" H-40   |  | 42#   |  | 582'   |  | 14-3/4"   |  |
| 8-5/8" J-55  |  | 32#   |  | 3724'  |  | 11"   |  |
| 5-1/2" CF-95 & P-110   |  | 17#   |  | 11250  |  | 7-7/8"  |  |
|  |  |   |  |  |  | 310 sx PP "C"   |  |
|  |  |   |  |  |  | 800 sx 50/50 Poz A & 175 PP   |  |
|  |  |   |  |  |  | 385 Prem & 975 Prem 50/50 poz   |  |
|  |  |   |  |  |  | TOC 3150' TS  |  |
| 29. LINER RECORD   |  |   |  |  |  |   |  |
| SIZE   |  | TOP (MD)  |  | BOTTOM (MD)                                    |  | SACKS CEMENT*   |  |
|  |  |   |  |  |  | SCREEN (MD)   |  |
|  |  |   |  |  |  | None  |  |
|  |  |   |  |  |  | PACKER SET (MD)   |  |
|  |  |   |  |  |  |   |  |
| 31. PERFORATION RECORD (Interval, size and number)<br>11122 to 11137 (.36" 60)   |  |   |  | 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. |  |   |  |
|  |  |   |  | DEPTH INTERVAL (MD)                            |  | AMOUNT AND KIND OF MATERIAL USED                                      |  |
|  |  |   |  | 11122 to 11137                                 |  | 61,000 gals Medallion frac 3000                                       |  |
|  |  |   |  |  |  | w/151,000# 16/30 AC Frac Black  |  |
|  |  |   |  |  |  |   |  |
|  |  |   |  |  |  |   |  |
| 33.* PRODUCTION  |  |   |  |  |  |   |  |
| DATE FIRST PRODUCTION<br>10/25/96  |  | PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump)<br>Flowing |  |  |  | WELL STATUS (Producing or shut-in)<br>Producing                       |  |
| DATE OF TEST<br>10/29/96   |  | HOURS TESTED<br>24  |  | CHOKE SIZE<br>16/64"                           |  | PROD'N. FOR TEST PERIOD<br>→  |  |
|  |  |   |  |  |  | OIL - BBL<br>81   |  |
|  |  |   |  |  |  | GAS - MCF.<br>162   |  |
|  |  |   |  |  |  | WATER - BBL<br>27   |  |
|  |  |   |  |  |  | GAS - OIL RATIO   |  |
| FLOW. TUBING PRESS.  |  | CASING PRESSURE<br>340  |  | CALCULATED 24-HOUR RATE<br>→                   |  | OIL - BBL   |  |
|  |  |   |  |  |  | GAS - MCF.  |  |
|  |  |   |  |  |  | WATER - BBL   |  |
|  |  |   |  |  |  | OIL GRAVITY - API (CORR.)<br>38.5                                     |  |
| 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)<br>Sold   |  |   |  |  |  | TEST WITNESSED BY   |  |
| 35. LIST OF ATTACHMENTS<br>Logs  |  |   |  |  |  |   |  |
| 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records  |  |   |  |  |  |   |  |
| SIGNED <u>Betty Seldon</u>   |  |   |  | TITLE <u>Regulatory Analyst</u>                |  | DATE <u>11/14/96</u>  |  |

\*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (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):

| FORMATION        | TOP  | BOTTOM | DESCRIPTION, CONTENTS, ETC. |
|------------------|------|--------|-----------------------------|
|                  | 0    | 595    | Redbed                      |
|                  | 595  | 1800   | Salt                        |
|                  | 1800 | 3724   | Anhy. Salt. Dolo            |
| Dela Mt Grp & BS | 3724 | 7475   | Sand, Shale                 |
| Bone Spring      | 7475 | 9550   | Lime, Shale                 |
| BS & Wlfcamp     | 9550 | 11250  | Lime, Shale, Sand           |

38.

# GEOLOGIC MARKERS

| NAME            | TOP         |                  |
|-----------------|-------------|------------------|
|                 | MEAS. DEPTH | TRUE VERT. DEPTH |
| Delaware Mt Grp | 3902        |                  |
| Bone Spring     | 7702        |                  |
| Wolfcamp        | 11018       |                  |