

OIL CONSERVATION DIVISION

July 17, 1995

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

Attention: Betty Gildon

Administrative Order TX-221

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:

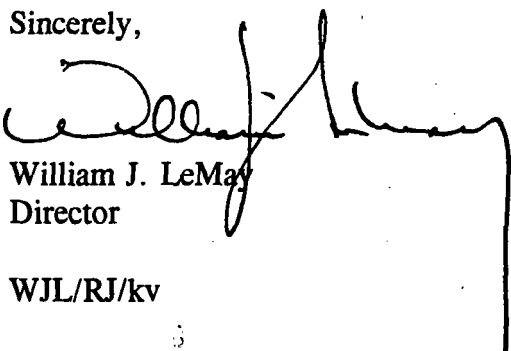
Well Name and Number: Hallwood 12 Federal Well No. 10

Location: Section 12, Township 25 South, Range 33 East, NMPM,  
Lea County, New Mexico

Remarks: Tubing will be required when this well ceases to flow.

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 - Hobbs

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OIL CONSERVATION DIVISION  
RECEIVED

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

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

May 11, 1995

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

Re: Hallwood 12 Federal No. 10  
Sec 12, T25S. R33E  
Red Hills Field  
Lea County, New Mexico

Dear Mr. Sexton :

Enron Oil & Gas respectfully requests your approval to complete and produce the above-referenced well from the Bone Spring formation ( perforations 12238-12282) 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	671	Circulated
8-5/8"	S-80 & K-55	4928	Circulated
5-1/2"	P-110	12537	5150

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.

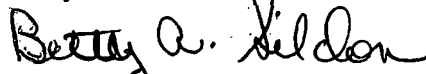
We believe this "tubingless" completion technique is completely safe and effective for the following reasons:

- 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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Part of the Enron Group of Energy Companies

# CONFIDENTIAL

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

5. LEASE DESIGNATION AND SERIAL NO.

NM 30400

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.  
Hallwood 12 Federal #10

9. API WELL NO.  
30 025 32895

10. FIELD AND POOL, OR WILDCAT

Red Hills Bone Spring

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec 12, 25S, 33E

12. COUNTY OR PARISH  
Lea

13. STATE  
NM

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other \_\_\_\_\_

2. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. REMOV. ☐ Other \_\_\_\_\_

2. NAME OF OPERATOR

Enron Oil & Gas Company

3. ADDRESS AND TELEPHONE NO.

P. O. Box 2267, Midland, Texas 79702

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

At surface

660' FNL & 1880' FWL

At top prod. interval reported below

660' FNL & 1880' FWL

At total depth

660' FNL & 1880' FWL

14. PERMIT NO.

DATE ISSUED

3-15-95

15. DATE SPUDDED  
3-27-95

16. DATE T.D. REACHED  
4-11-95

17. DATE COMPL. (Ready to prod.)  
4-15-95

18. ELEVATIONS (DV, RKB, RT, CR, ETC.)\*  
3409' GR

19. ELZY. CASINGHEAD  
3409'

20. TOTAL DEPTH, MD & TYD  
12,550'

21. PLUG. BACK T.D., MD & TYD  
12,446'

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY  
→

ROTARY TOOLS  
X

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TYD)\*

12,238'-12,282' (3rd Bone Spring)

25. WAS DIRECTIONAL SURVEY MADE  
No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Z-Densilog-Comp Neutron-GR

27. WAS WELL CORRD  
No

28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
11-3/4	42	671	14-3/4	350 Prem Plus	Circulated
8-5/8	32	4928	11	1200 Prem H Lite & 200 Prem	Circulated
5-1/2	17	12537	7-7/8	914 Prem + & 299 50/50 poz A	TOC 5150'

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

12,238'-12,262' (.36" 96)

12,262'-12,282' (.36" 80)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
12,262'-12,282'	3,000 gals 15% HCl
	Frac w/3747 bbls fluid & 310,296# sand

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
4-21-95		Flowing				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
5-2-95	24	22/64	→	400	703	61	1758
FLOW. TUBING PRESS.	CASINO PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
-	725	→				40.0	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Sold

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

Logs

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

*Betty Gildon*  
Betty Gildon

TITLE

Regulatory Analyst

DATE

5/11/95

\*(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	721	Redbeds & Anhy
	721	4928	Salt, Anhy
Delaware	4928	8450	Lime, Sand
Bone Springs	8450	12550	Sand, Shale, Lime
Wolfcamp			

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Delaware	5121	
Bone Spring	9286	
Wolfcamp	12360	