



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

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

June 20, 1995

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

Attention: Betty Gildon

Administrative Order TX-219

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 1 Federal Well No. 4

Location: Section 1, Township 25 South, Range 33 East, NMPM,  
Lea County, New Mexico

Remarks: Tubing will be installed when well ceases to flow.

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

Sincerely,

A handwritten signature in black ink, appearing to read "William J. LeMay".

William J. LeMay  
Director

WJL/RJ/kv

cc: Oil Conservation Division - Hobbs

PVZV2005536326

CONSERVATION DIVISION  
RECEIVED

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

P. O. Box 2267 Midland, Texas 79702 (915) 686-3600  
June 7, 1995

6-19-95  
OK w/ Sexton

Mr. William J. LeMay, Director  
New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Re: Hallwood 1 Federal No. 4  
Sec 1, T25S. R33E  
Red Hills 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 Bone Spring formation ( perforations 12263-12303) 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	678	Circulated
8-5/8"	FS80 & K-55	4902	Circulated
5-1/2"	C-95 & P110	12550	5250

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 known 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

*Betty A. Gildon*

Regulatory Analyst

cc: NMOCD-HOBBS

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**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 23, 1995

5. LEASE DESIGNATION AND SERIAL NO.

NM 19859

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.  
Hallwood 1 Federal #49. API WELL NO.  
30 025 32887

10. FIELD AND POOL OR WILDCAT

Red Hills Bone Spring

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

Sec 1, T25S, R33E

12. COUNTY OR PARISH  
Lea13. STATE  
NM

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other \_\_\_\_\_b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. ENVR. ☐ Other \_\_\_\_\_2. NAME OF OPERATOR  
Enron Oil & Gas Company3. ADDRESS AND TELEPHONE NO.  
P. O. Box 2267, Midland, Texas 79702 (915) 686-3714

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

At surface  
1060' FSL & 1650' FWLAt top prod. interval reported below  
1060' FSL & 1650' FWLAt total depth  
1060' FSL & 1650' FWL14. PERMIT NO. \_\_\_\_\_ DATE ISSUED  
2-22-95

15. DATE STUDDED 5-12-95 16. DATE T.D. REACHED 5-26-95 17. DATE COMPL. (Ready to prod.) 6-2-95 18. ELEVATIONS (OF, RKB, RT, GR, ETC.)\* 3429' GR 19. ELEV. CASINGHEAD 3429'

20. TOTAL DEPTH, MD &amp; TYD 12,550' 21. PLUG BACK T.D., MD &amp; TYD 12,450' 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)\*  
12,283'-12,303' & 12,263'-12,282' (Bone Spring) 25. WAS DIRECTIONAL SURVEY MADE No26. TYPE ELECTRIC AND OTHER LOGS RUN  
DIFL/GR, ZDL/CN/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 H-40 ST&C	42#	678'	14-3/4"	350 Prem Plus	Circulated
8-5/8 FS80 & K-55	32#	4902'	11"	1200 Prem H & 200 Prem +	Circulated
5-1/2 P-110 & C-95					
LT&C 20# & 17#		12,550'	7-7/8"	1153 Prem & 238 Prem 50/50	TOC per 5250'

29. LINER RECORD					30. TUBING RECORD Temp Survey		
SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					None		

## 31. PERFORATION RECORD (Interval, size and number)

12,283'-12,303' (.65" 80)  
12,263'-12,282' (.65" 80)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
12,263'-12,303'	83,000 gals Medallion 3000 & 168,000# 20/40 Interprop Plus

## 33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
6-6-95		Flowing				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
6-7-95	24	20/64	→	467	1110	189	2377
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
-	640	→				40.0	

34. DISPOSITION OF GAS (Bold, used for fuel, vented, etc.)  
Sold TEST WITNESSED BY \_\_\_\_\_35. LIST OF ATTACHMENTS  
Logs36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records  
SIGNED Betty Lillard TITLE Regulatory Analyst DATE 6/8/95

\*(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	4725	Salt, Anhy
Delaware	4725	5800	Anhy
Delaware & B.Sp	5800	10165	Sand, Lime
Bone Spring & Delaware	10165	12550	Sand, Shale, Lime

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Delaware	5153	
Bone Spring	9270	
Wolfcamp	12364	