



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

6-19-95
OK w/ Sexton

ENRON Oil & Gas Company

CONSERVATION DIVISION
RECEIVED

95 JUN 15 AM 8 52

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

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.

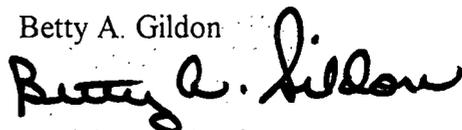
We believe this "tubingless" completion technique is completely safe and effective for the following reasons:

- The well is in a known producing field
- No corrosive or pressure problems are 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 23, 1995

CONFIDENTIAL

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. ENVYR. Other _____

2. NAME OF OPERATOR
Enron Oil & Gas Company

3. 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' FWL
At top prod. interval reported below 1060' FSL & 1650' FWL
At total depth 1060' FSL & 1650' FWL

14. PERMIT NO. _____ DATE ISSUED 2-22-95

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 #4

9. APIWELL 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 Lea 13. STATE NM

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 (DF, RKB, RT, CR, ETC.)* 3429' GR 19. ELEV. CASINGHEAD 3429'

20. TOTAL DEPTH, MD & TYD 12,550' 21. PLUG BACK T.D., MD & 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 No

26. TYPE ELECTRIC AND OTHER LOGS RUN DIPL/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

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					None		

30. TUBING RECORD Temp Survey

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
Logs

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

38.

GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
	0	4725	Salt, Anhy			
Delaware	4725	5800	Anhy			
Delaware & B.Sp	5800	10165	Sand, Lime	Delaware	5153	
Bone Spring &				Bone Spring	9270	
Delaware	10165	12550	Sand, Shale, Lime	Wolfcamp	12364	