

OIL CONSERVATION DIVISION

July 17, 1995

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

Attention: Betty Gildon

Administrative Order TX-225

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: Diamond 18 Federal Well No. 4

Location: Section 18, Township 25 South, Range 34 East, NMPM,
Lea County, New Mexico

Remarks: Production 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

ENRON
Oil & Gas Company

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

May 24, 1995

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

Re: Diamond 18 Federal No. 4
Sec 18, T25S. R34E
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 12258-12368) 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	675	Circulated
8-5/8"	S-80 & K-55	5011	Circulated
5-1/2"	P-110	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.

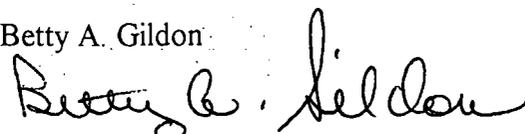
We believe this "tubingless" completion technique is completely safe and effective for the following reasons:

- 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

5. LEASE DESIGNATION AND SERIAL NO.

NM 24490

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.
Diamond 18 Federal #4

9. APIWELLNO.

30 025 32882

10. FIELD AND POOL OR WILDCAT

Red Hills Bone Spring

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

Sec 18, T25S, R34E

12. COUNTY OR PARISH

Lea

13. 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 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 510' FNL & 660' FEL
At top prod. interval reported below 510' FNL & 660' FEL
At total depth 510' FNL & 660' FEL

14. PERMIT NO. _____ DATE ISSUED 3/1/95

15. DATE SPUDDED 4-19-95 16. DATE T.D. REACHED 5-4-95 17. DATE COMPL. (Ready to prod.) 5-12-95 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 3339' GR 19. ELEV. CASINGHEAD 3339'

20. TOTAL DEPTH, MD & TYD 12550' 21. PLUG, BACK T.D., MD & TYD 12464' 22. IF MULTIPLE COMPL., HOW MANY* _____ 23. INTERVALS DRILLED BY _____ ROTARY TOOLS _____ CABLE TOOLS _____

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TYD)* 12258-12368 (Bone Spring) 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN ZDL/CN/GR/CAL, Dual Induction/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	42	675	14-3/4	350 sx Prem +	Circulated
8-5/8 FS 80& K-55	32	5011	11	1200 sx Prem H Lite & 200 sx Prem +	Circulated
5-1/2 CF95 & P110	17	12550	7-7/8	930 Prem + & 212 50/50 pdz	TOC: 5250

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
N/A		

31. PERFORATION RECORD (Interval, size and number)

12,258'-12,368' (.62" 300)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
12258-12368	85,000 gals Medallion 3000 & 143,000# 20/40 Interprop plug

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
5-16-95		Flowing				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
5-21-95	24	20/64	→	389	473	30	1216
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
-	600	→				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

SIGN Betty Gildon Betty Gildon TITLE Regulatory Analyst

DATE 5/24/95

*(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.
	0	1175	Surface - Red Beds
	1175	5011	Salt, Anhy
Delaware	5011	7315	Lime, Sand
Dela & B. Spring	7315	9500	Lime, Sand, Shale
Bone Spring	9500	11195	Shale, Lime
B. Sp & Wolfcamp	11195	12550	Shale, Lime, Sand

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Delaware	5254	
Bone Spring	9282	
Wolfcamp	12400	