



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

October 7, 1987

Enron Oil and Gas Company
P.O. Box 2267
Midland, TX 79702

Attention: Betty Gildon

Administrative Order TX-183

Gentlemen:

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 set tubing at 13,026 feet in the following well:

Well Name and Number: Madera 33 Federal Com. Well No. 4

Location: Unit J, Sec. 33, T-24-S, R-34-E, NMPM, Lea County, New Mexico

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

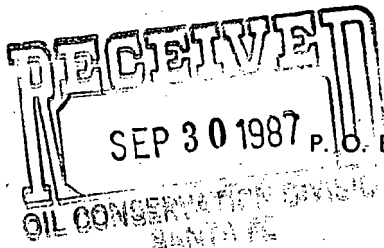
Very truly yours,

WILLIAM J. LeMAY,
Division Director

WJL/REJ/ag

cc: Oil Conservation Division - Hobbs

PV 21 2005151894



ENRON
Oil & Gas Company

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

September 28, 1987

Oil Conservation Division
P. O. Box 2088
State Land Office Bldg.
Santa Fe, NM 87501

Attn: Mr. William J. LeMay
Division Director

In Re: Madera 33 Federal Com. #4
2308' FSL & 1980' FEL, Sec. 33, T24S, R34E
Lea County, New Mexico NM #21511

Dear Mr. LeMay

Tubing for the above-named well has been set at 13,026 feet, and casing perforated from 13,892 to 13,904 feet.

This office requests administrative exception to Rule 107d.

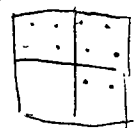
Very truly yours,

ENRON OIL & GAS COMPANY

Betty Gildon
Regulatory Analyst

BG

enclosures



ENRON

Oil & Gas Company

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

Oil Conservation Division
P. O. Box 2088
State Land Office Bldg.
Santa Fe, New Mexico 87501

Attn: Mr. William J. LeMay
Division Director

In Re: Madera 33 Federal Com. #4
NM 21511

Dear Mr. LeMay:

There are several reasons why we feel that completions utilizing a TIW Polish Bore Receptacle or Insert Seal Assembly is the most advantageous method to complete a well.

1. The inside diameter of the seal assembly is the same as the diameter of the tubing. Therefore, there is no restriction that would reduce the size of wireline tools that could be run in the hole.
2. The Polish Bore Receptacle has a full bore opening to the liner below it. This allows us to run bridge plugs, retainers, or bits into the liner if necessary.
3. The seal assembly - PBR hook-up allows for tubing movement while treating the well. It will withstand higher treating pressures during stimulation than would be possible with most other production packers.
4. In most of the wells drilled in this area there are several zones of interest. By having the seal assembly stung into the PBR, the lowest zone can be tested and if non-productive, acidized and tested. All this can be accomplished without pulling the tubing. This can save a considerable amount of time and money.

The Polish Bore Receptacle is run on the top of the liner. The Insert Seal Assembly sets in the tie back sleeve at the top of the liner.

We feel that this Packer system not only saves us a considerable amount of time and money, but also is the most reliable Packer system available. Of the several hundred wells in which Enron Oil & Gas Company has utilized this system over the past years, we have had very few failures. If you have any questions, please feel free to give me a call.

Very truly yours,

George M. Hover
lg

George M. Hover
Division Drilling Engineer

GMH/bg

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

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. REVR. ☐ Other _____

2. NAME OF OPERATOR
Enron Oil & Gas Company

3. ADDRESS OF OPERATOR
P. O. Box 2267, Midland, Texas 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 2308' FSL & 1980' FEL, Sec. 33

At top prod. interval reported below
Same

At total depth

Same

14. PERMIT NO. CER-194
DATE ISSUED 5/18/87

5. LEASE DESIGNATION AND SERIAL NO.
NM 21511

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Madera 33 Federal Com.

9. WELL NO.
4

10. FIELD AND POOL, OR WILDCAT
Pitchfork Ranch Atoka

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 33, T24S, R34E

12. COUNTY OR PARISH
Lea

13. STATE
NM

15. DATE SPUDDED 7/19/87
16. DATE T.D. REACHED 8/26/87
17. DATE COMPL. (Ready to prod.) 9/15/87
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 3395.8' GR
19. ELEV. CASINGHEAD 3395.8'

20. TOTAL DEPTH, MD & TVD 14,000'
21. PLUG BACK T.D., MD & TVD 13,945'
22. IF MULTIPLE COMPL., HOW MANY* 5
23. INTERVALS DRILLED BY → ROTARY TOOLS X CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
13892' - 13904' (Atoka)
25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN
Dual Ind. W/GR; Lithodensity/Comp. Neutron/GR
27. WAS WELL CORED No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
11-3/4"	54 & 42	611'	14-3/4"	250 DLW & 165 Dowell C1 C	Circulated
8-5/8"	24 & 32	5250'	10-5/8"	1350 DLW & 275 Dowell C1 C	Circulated
5-1/2"	17#	13300'	7-7/8"	950 DLW & 450 C1 H	-

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
3-1/2"	12972	14000	135 C1 H	-	2-7/8"	13,026'	13,026' PBR

31. PERFORATION RECORD (Interval, size and number)

13892 - 13904 (.41" 20)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
13892-13904	5000 gal 7-1/2% Mor Flo BC Acid

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
9-17-87		Flowing				Shut-in	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
9-18-87	24	16/64"	→	3	384	0	128,000
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
725	Sealed	→				58.1	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
Vented
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 Gilson TITLE Regulatory Analyst DATE 9/28/87

*(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	2900	Red Beds & Anhy
	2900	3794	Salt
	3794	4125	Anhy, Salt
	4125	6160	Anhy
	6160	7552	Sand
	7552	8040	Lime & Sand
	8040	13190	Lime, Shale
	13190	13531	Shale
	13531	13610	Lime, Shale
	13610	13832	Lime, Chert
	13832	13933	Sand, Shale, Lime
	13933	13986	Sand, Shale
	13986	14000	Shale

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Delaware	5304	
Cherry Canyon	6245	
Leonard	9046	
Bone Spring Lm	9256	
1st BS Sand	10190	
2nd BS Sand	10847	
3rd BS Sand	11815	
Wlfcpl Lime	12197	
Strawn	13575	
Atoka	13700	
Atoka Sand	13897	