

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION



June 3, 1987

GARREY CARRUTHERS
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

Enron Oil and Gas Co.
P. O. Box 2267
Midland, Texas 79702

Attention: Betty Gildon

Administrative Order TX-179

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 12,938 feet in the following well:

Madera 28 Federal Com. Well No. 2
Unit N, Sec. 28, 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,

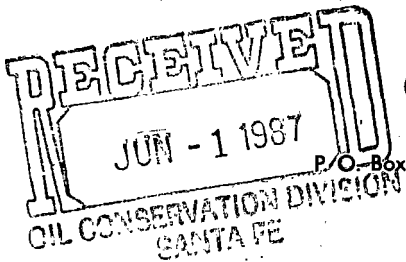
A handwritten signature in dark ink, appearing to read "William J. Lemay".

WILLIAM J. LEMAY,
Director

WJL/REJ/dr

cc: Oil Conservation Division - Hobbs

PV2V2005139531



ENRON
Oil & Gas Company

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

May 27, 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 28 Federal Com. #2
Sec. 28, T24S, R34E
Lea County, New Mexico
NM #15684

Dear Mr. LeMay:

Tubing for the above-named well has been set at 12,938 feet,
and casing perforated from 13,869 to 13,875 feet.

This office requests administrative exception to Rule 107d.

Very truly yours,

Enron Oil & Gas Company

Betty Gildon
Regulatory Analyst

BG

enclosure

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

May 27, 1987

Re: Madera 28 Federal Com. #2

Attn: Mr. William J. LeMay
Division Director

Dear Mr. LeMay:

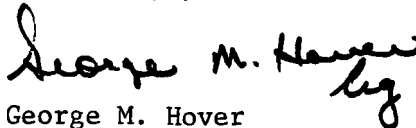
There are several reasons why we feel that completions utilizing a TIW Polish Bore Receptacle or Insert Seal Assembly is the most advantageous method to complete a well.

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

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

5. LEASE DESIGNATION AND SERIAL NO.

NM 15684

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Madera 28 Federal Com.

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

Pitchfork Ranch (Atoka)

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

Sec. 28, T24S, R34E

12. COUNTY OR PARISH
Lea

13. STATE
NM

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 660' FSL & 2200' FWL

At top prod. interval reported below

Same

At total depth

Same

14. PERMIT NO.

CER #117

DATE ISSUED

2/17/87

15. DATE SPUDDED

3/10/87

16. DATE T.D. REACHED

4/23/87

17. DATE COMPL. (Ready to prod.)

5/12/87

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

3454.8' GR

19. ELEV. CASINGHEAD

3454.8'

20. TOTAL DEPTH, MD & TVD

13,945'

21. PLUG, BACK T.D., MD & TVD

13,906'

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

X

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

13869-13875 Atoka

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

DIT, FDC-CNT

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"	42#	623'	15-1/4"	250 DLW & 165 C1 C	Circulated
8-5/8"	32#	5210'	10-5/8"	1350 DLW & 275 C1 C	Circulated
5-1/2"	20#	13300'	7-7/8"	950 DLW & 450 C1 H	-

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
3-1/2"	12997'	13944'	110 C1 H	-

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	12938	PBR 12938

31. PERFORATION RECORD (Interval, size and number)

13869 - 13875 (.41" 7)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
13869-13875	None

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
5/12/87		Flowing				SI	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
5/12/87	24	16/64"	→	72	1800	0	25
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
2130	Sealed	→				35.0	

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

Berry Gildon

TITLE

Regulatory Analyst

DATE

5/27/87

*(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):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Rustler	0	1175	Surf. Rock	Rustler	1064	
	1175	2575	Anhy	Delaware	5347	
Delaware	2575	5820	Anhy, Salt	Cherry Canyon	6320	
	5820	7375	Sand	Leonard	9084	
	7375	7700	Sand, Lime	Bone Spring Lm	9279	
	7700	8450	Sand, Shale	Wolfcamp	12134	
Cherry Canyon &	8450	9135	Lime, Sand, Shale	Strawn	13544	
Leonard & Bone Sp.	9135	9525	Sand	Atoka	13685	
	9525	11325	Lime, Shale	Atoka Sand	13868	
Bone Spring & Wlfcp	11325	12350	Sand, Lime, Shale			
	12350	13300	Shale, Lime			
	13300	13418	Shale			
	13418	13540	Shale, Lime			
Strawn	13540	13617	Shale, Chert, Lime			
Strawn & Atoka	13617	13884	Lime, Shale			
	13884	13940	Shale, Lime, Sand			
	13940	13945	Shale, Lime			

RECEIVED BY THE U.S. GEOLOGICAL SURVEY
 DEPARTMENT OF THE INTERIOR
 WASHINGTON, D.C. 20508
 JUL 1 1964
 FROM THE U.S. GEOLOGICAL SURVEY
 ALBUQUERQUE, NEW MEXICO