

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION



April 13, 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-170

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 13,007 feet in the following well:

Well Name and Number: Madera 33 Federal Com Well No. 3

Location: Unit L, 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

A handwritten signature in black ink, appearing to read "William J. Lemay", written over the typed name and title.

WILLIAM J. LEMAY,  
Division Director

WJL/REJ/dr

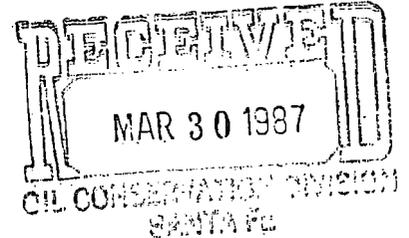
cc: Oil Conservation Division - Hobbs

PV2V2005138131

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

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

March 27, 1987



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., Well No. 3  
1980' FSL & 660' FWL, Sec. 33, T24S, R34E  
NM 19861, Lea County, New Mexico

Dear Mr. LeMay:

Tubing for the above-named well has been set at 13,007 feet,  
and casing perforated from 13,865 to 13,877 feet.

This office requests administrative exception to Rule 107d.

Very truly yours,

Enron Oil & Gas Company

A handwritten signature in cursive script that reads "Betty Gildon".

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

Re: Madera 33 Federal Com., #3  
NM 19861

Dear Mr. LeMay:

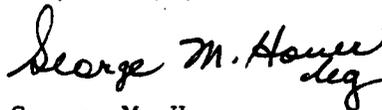
There are several reasons why we feel that completions utilizing a TIW Polish Bore Receptacle or Insert Seal Assembly is the most advantageous method to complete a well.

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, squeezed. The next zone of interest can then be perforated, 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 HNG Oil 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  
Petroleum Engineer III

GMH/bg

Part of the Enron Group of Energy Companies

**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. RENVR.  Other \_\_\_\_\_

2. NAME OF OPERATOR  
Enron Oil & Gas Company (Formerly HNG Oil 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 1980' FSL & 660' FWL  
 At top prod. interval reported below Same  
 At total depth Same

14. PERMIT NO. CER #80 DATE ISSUED 1-8-87

15. DATE SPUDDED 1-23-87 16. DATE T.D. REACHED 2-27-87 17. DATE COMPL. (Ready to prod.) 3-7-87 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 3421.0' GR 19. ELEV. CASINGHEAD 3421.0'

20. TOTAL DEPTH, MD & TVD 13,960' 21. PLUG, BACK T.D., MD & TVD 13,921' 22. IF MULTIPLE COMPL., HOW MANY\* 23. INTERVALS DRILLED BY → 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* 13,865' - 13,877'

25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN Dual Ind. GR, Form-Density/Com. 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"	42#	626'	14-3/4"	250 DLW & 165 CI C	Circulated
8-5/8"	32# & 24#	5178'	10-5/8"	1350 DLW & 275 CI C	Circulated
5-1/2"	20#	13350'	7-7/8"	950 DLW & 450 CI H	-

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
3-1/2"	13007'	13960'	110 CI H	-	2-7/8"	13,007'	13,007'

31. PERFORATION RECORD (Interval, size and number) 13,865' - 13,877' (.33" 20)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
13865-13877	None

33.\* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
3/7/87	Flowing	SI					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
3/7/87	24	Adj.	→	1.5	1900	0	1266.6
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
980	Sealed	→				31.0	

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 Betty Gildon Betty Gildon TITLE Regulatory Analyst DATE 3/27/87

\*(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.
	0	943	Surf Red Bed			
	943	2342	Anhy, Sand			
	2342	4165	Anhy, Salt			
Delaware	4165	5650	Anhy	Delaware	5300	
Delaware & CC	5650	6600	Shale	Cherry Canyon	6270	
	6600	7425	Sand	Cherry Can Mrkr	6526	
	7425	8090	Sand, Shale	Bone Springs LM	9448	
Bone Springs	8090	9825	Lime, Shale, Sand	Wlfcp Lime	12256	
	9825	10585	Lime	Strawn	13559	
Wolfcamp	10585	12245	Lime, Shale	Atoka Lime	13778	
	12245	12827	Sand, Lime, Shale	Atoka Sand	13865	
	12827	13535	Shale			
Strawn	13535	13610	Shale, Lime			
Strawn & Atoka	13610	13860	Lime, Shale Chert			
	13860	13917	Lime			
	13917	13960	Shale, Lime			

RECEIVED BY THE STATE OF TEXAS  
 DEPARTMENT OF GEOLOGY  
 GEOSCIENCE CENTER  
 10000 FORT WORTH AVENUE  
 FORT WORTH, TEXAS 76127  
 817-755-7300