STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

April 13, 1987



GARREY CARRUTHERS

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

PVZV2005138131

WILLIAM J. LEMAY, Division Director

WJL/REJ/dr

cc: Oil Conservation Division - Hobbs

## **ENRON** Oil & Gas Company



CIL CONSEGMATION OWIELDIN BROTA FC

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

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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 Receptable 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,

Searge M. House

George M, Hover Petroleum Engineer III

Part of the Enron Group of Energy Companies

(formesty 9-330)	UNITED STATES SUBMIT IN DUPLICATE. DEPARTMENT OF THE INTERIOR								Expires August 31, 1985			
BUREAU OF LAND MANAGEMENT							e Bide)	NM 19861				
WELL CO	MPLETION	OR RECO	OMPLE		FPORT	AND	100	; *	6. IF INDIAN	, ALI.0	TTEE OR TRIBE NAME	
1a. TYPE OF WEL	L: OIL	GAR	<u></u>						7 L'NIT ACR		7 N A 10 B	
b. TYPE OF COM	WELL PLETION:	WELL	<u>к</u> т		Other				I. UNIT AGE	eemen.	t name	
NEW WRITE	WORK DEEP OVER EN	D PLUG BACK		FF. SVR.	Other				S. FARM OR	LEASE	NAMB	
2. NAME OF OPERAT	on				· · ·			· · ·	Madera	<u>33 F</u>	ederal Com.	
Enron Oil &	Gas Company	y (Former	rly HNG	0i1 C	ompany)				9. WELL NO.			
P. O. Box 2	267. Midlan	d. Texas	79702				a na tao si tao	· • · ·	10. FIELD AN	ID POO	L, OB WILDCAT	
4. LOCATION OF WEI	L (Report location	clearly and i	n accordan	ce with any	y State requir	ements	)•	· · ·	Pitchf	ork	Ranch Atoka	
At surface 198	0' FSL & 66	O' FWL			-29			•	11. SEC., T., OR AREA	R., M.,	OR BLOCK AND BURVEY	
At top prod. int	erval reported belo	W		1 ·	•		*					
Sami At total depth	<b>Ľ</b>							ni w s	Sec. 33	, т2	4S, R34E	
Sam	e .	<sup>v</sup> 1'	14. 1	ERMIT NO.		DATE IS	SUED	12. COUNTY OB			13. STATE	
15 DATE ODUNNER	18 DATE OD	ACHED 1 17 -	ATE COMP	CER #8			1-8-87	7	Lea	1 10	NM	
1-23-87	30. DATE T.D. RE	7	3_7_9	( <i>neady to</i>	prod.) 18.	ELEVA Q	тюка (de 421 П <sup>1</sup>	, якв, я / Ср	IT, GB. ETC.)*	19.	3421 OT	
20. TOTAL DEPTH, MD	A TVD   21. PLUG.	BACK T.D., MD	4 TVD   2	2. IF MUL	TIPLE COMPL.,		23. INTE	RVAL8	ROTARY TOO	LS	CABLE TOOLS	
13,960'		13,921'		HOW M	An ¥-		DRIL	> SP BY	X			
24. PRODUCING INTER	WAL(8). OF THIS C	OMPLETION-1	OP, BOTTOM	, NAME (M	D AND TVD)*					2	5. WAS DIRECTIONAL SUBVEY MADE	
- 13	865! - 13	877'					а. — А				No	
26. TYPE ELECTRIC	ND OTHER LOGS B	U77							27. WAS WELL CORED			
Dual Ind. G	R, Form-Den	sity/Com	. Neutr	on/GR							No	
28.		CA	SING REC	ORD (Rep	ort all strings	set in	well)		· · · · · · · · · · · · · · · · · · ·			
	WEIGHT, LB./F	T. DEPTH	SET (MD)			250		ENTING	CI C		AMOUNT PULLED	
<u> </u>	32# & 2	4#	5178' 10-			$\frac{3}{4}$ $\frac{250 \text{ DLW} \approx 165}{5/8''}$ $\frac{1350 \text{ DLW} \approx 275}{5/8''}$					Circulated	
5-1/2"	20#	1	13350' 7-			7/8" 950 DLW & 4		¥ 450	50 C1 H			
	1									<u> </u>		
29.		INER RECOR	R RECORD			30.			TUBING RECORD		PACETR SET (ND)	
3-1/2"	13007	13960	110 0	1 H					13 007!		13 007!	
							<u> </u>					
31. PEBFORATION REC	COBD (Interval, size	and number)	)		82.	ACII	), SHOT,	FRACT	URE. CEMEN	T SQU	EEZE. ETC.	
13,865' -	13,877' (.3	3"_20)			DEPTH INT	EBVAL	(MD)	AM	OUNT AND KIN	DOF	MATERIAL USED	
	موجدة منتخب بالمراجع المعرف الرو المرجعة المراجع المعرف الرو		•		1-2005-1	1/06	f	<u>vone</u>				
		; <sup>*</sup>										
				BBOT	liomon		].	·				
DATE FIRST PRODUCT	ION PRODUC	TION METHOD	(Flowing,	gas lift, pu	mping-size	and typ	e of pum	<b>p</b> )	WELL	STATU	B (Producing or	
3/7/87		Flowing		a.,	· · · · · · · · · · · · · · · · · · ·			÷,	shu	it-in)	SI	
DATE OF TEST	HOURS TESTED	CHOKE 812	E PROT	N. FOR	OIL-BBL.		GA8-MC	F.	WATER-BBI	··	GAS-OIL RATIO	
3/7/87	CABING PRESSURE	Adj.	- 1 -		1 1.5	MCR.	190	UU WATER-	<u>  0</u>		1266.6	
920	Sealed	24-HOUR R			1		· [			5.0 9	31.0	
34. DISPOSITION OF G	AB (Sold, used for )	uel, vented, et	c.)	<u></u>			1_		TEST WITNE	SSED E	T	
Vented	• • • • • • •	· · · · ·	 		ر ایس از این ا	eta e		····		· •••••		
35. LIST OF ATTACH	MENTS		. *								····	
Logs	that the foregoing	and attached	Informati	on is comp	lete and corre	et as	determine	d from	all available	records	<u></u>	
OU. A MELEUV LEADER												

Fitle 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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):

GEOLOGIC MARKERS

38.

0         943         Surf Red Bed         NAME         WEAL DEPTH         VERTER           Delaware         4165         4655         Anhy, Sand         Delaware         5300         6270 <t< th=""><th>FORMATION</th><th>TOP</th><th>BOTTOM</th><th>DESCRIPTION, CONTENTS, ETC.</th><th></th><th>тс</th><th>)P</th></t<>	FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.		тс	)P
Delaware Delaware         943 (165)         Anby, Sand Anby, Salt           Delaware         4165 (560)         5650 (6600)         Anby, Shale         Sand (1225)         Sand (1225)		0	943	Surf Red Bed	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Delaware melaware         2342         4165         Salt         Cherry Canyon         5270           belaware         5650         6600         7425         Sand         Sand         Cherry Canyon         6270           Bone Springs         8090         Sand, Shale         Sand         Shale         Cherry Canyon         6270           Bone Springs         8090         9825         Lime, Shale, Sand         Cherry Canyon         12256           Wolfcamp         10585         12245         Lime, Shale         Strawn         13559           Strawn         13535         13610         Shale, Lime, Shale         Atoka Lime         13865           Strawn & Atoka         13600         Lime, Shale Chert         Atoka Sand         13865           Strawn & Atoka         13860         Lime, Shale, Lime         Atoka Sand         13865           Strawn & Atoka         13860         Lime, Shale, Lime         Atoka Sand         13865           Strawn & Atoka         13917         Lime         Shale, Lime         Atoka Sand         Atoka Sand           Shale         Lime         Shale, Lime         Shale, Lime         Shale, Lime         Atoka Sand         Shale		943	2342	Anhy, Sand			
Delaware       4165       5650       Anhy.       Cherry Canyon       6270         elaware & CC       6600       7425       Sand       Sand       Bone Springs LM       9448         Bone Springs       8090       9825       Lime, Shale       Strawn       13256         Wolfcamp       10585       12245       Lime, Shale       Strawn       13355         Strawn       13535       Shale       Strawn       13865         Strawn       13535       13610       Shale Chert       Atoka Sand         13860       13917       Lime, Shale Chert       Atoka Sand       Atoka Sand         Strawn & Atoka       13610       13860       Lime, Shale Chert       Atoka Sand       Atoka Sand         13917       13960       Shale, Lime       Atoka Sand       Atoka Sand       Atoka Sand         // 13917       13960       Shale, Lime       Atoka Sand       Atoka Sand       Atoka Sand         // 13917       13960       Shale, Lime       Atoka Sand       Atoka Sand       Atoka Sand         // 13917       13960       Shale, Lime       Atoka Sand       Atoka Sand       Atoka Sand         // 13917       13960       Shale, Lime       Atoka Sand       Atoka Sand		2342	4165	Anhy, Salt	Delaware	5300	1997 - 19
elavare & CC 5650 6600 Shale Sand. Shale Cherry Can Mrku 5526 8090 Sand. Shale Lime, Shale, Sand Wifep Lime 12256 11me 12255 12655 Lime, Shale Sand, Lime, Shale 13778 Atoka Lime 13778 Atoka Lime 13778 13855 12245 12827 13535 Shale, Lime Shale Shale Shale Lime, Shale Shale 13860 13917 Lime 13860 13917 Lime Shale, Lime 13917 13960 Shale, Lime 1478 13917 13960 Shale, Lime 1478 1478 1478 1478 1478 1478 1478 1478	Delaware	4165	5650	Anhy	Cherry Canyon	6270	
6600         7425         Sand. 8090         Sand. Sand. Shale         Bone Springs LM = 9448         9425           Bone Springs         8090         9825         Lime, Shale, Sand         13559           Wolfcamp         10585         Lime, Shale         13557           12245         12827         Sand, Lime, Shale         Atoka Lime           Strawn         13535         Sand, Lime, Shale         Atoka Lime           Strawn         13535         Shale, Lime         Strawn           Strawn         13610         Shale, Lime         Strawn           Strawn         13610         Shale, Lime         Shale           Strawn         1360         Lime, Shale Chert         Lime           13917         13960         Shale, Lime         Shale, Lime           13917         13960         Shale, Lime         Shale, Lime	laware & CC	5650	6600	Shale	Cherry Can Mrkr	6526	
Bone Springs         7425         8090         Sand, Shale         Wifep Lime         12256           Wolfcamp         10585         12245         Lime, Shale         Aroka Lime         13778           Iz2245         12245         Lime, Shale         Shale, Sand         Aroka Lime         13778           Strawn         13535         Sand, Lime, Shale         Shale, Sand         Aroka Lime         13865           Strawn         13535         Shale, Iime         Shale, Lime         Shale         13860           Strawn         133610         Shale, Lime         Shale, Lime         Shale, Lime         13860           13917         13960         Shale, Lime         Shale, Lime         Shale, Lime         Shale, Lime		6600	7425	Sand	Bone Springs LM	9448	· .
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Wolfcamp         10585         12245         Lime, Shale         Atoka Sand         13865           Strawn         13535         13610         13860         11917         13960         Shale, Lime         1101		9825	10585	Lime	Atoka Lime	13778	
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Strawn       13535       13610       Shale, Lime         J3860       13801       13860       Lime, Shale Chert         J3917       13960       Shale, Lime         Shale, Lime       Shale, Lime         Shale, Lime       Shale, Lime	an Allan - An Angar - An Bigan	12827	13535	Shale			
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