STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

TONEY ANAYA
GOVERNOR

August 28, 1984

Mike Stogner — late corrections Melba

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

HNG Oil Co.
P. O. Box 2267
Midland, Texas 79702

Attention: Betty Gildon

Administrative Order TX-143

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 set tubing at 14,141 feet in the following well:

Well Name and Number: Madera 33 Fed. Com Well No. 1 2

Location: Unit J, Sec. 23 33, T-24-S, R-34-E, NMPM
Lea County

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

Very truly yours,

JOE D. RAMEY,
Division Director

JDR/MES/h

cc: Oil Conservation Division - Hobbs

RECEIVED
SEP 17 1984
OIL CONSERVATION DIVISION
SANTA FE

PLEV2005037750

hng Oil Company
P. O. BOX 2267, MIDLAND, TEXAS 79702 (915) 683-4871

August 16, 1984

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

Attn: Mr. Joe D. Ramey
Division Director

In Re: Madera 33 Federal Com., Well No. 1
1980' FSL & 1980' FEL, Section 23, T24S, R34E
Lea County, New Mexico

Dear Mr. Ramey:

Tubing for the above-named well has been set at 14,141 feet and casing perforated from 14,938 feet to 15,030 feet.

This office requests administrative exception to Rule 107d.

Very truly yours,

HNG OIL COMPANY

Betty Gildon

Betty Gildon
Regulatory Analyst

bg

enclosures

hng Oil Company

P. O. BOX 2267, MIDLAND, TEXAS 79702 (915) 683-4871

August 16, 1984

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

Attn: Mr. Joe D. Ramey
Division Director

Dear Mr. Ramey:

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,

George M. Hover bg

George M. Hover
Petroleum Engineer III

GMH/bg

Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

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.: 2

10. FIELD AND POOL, OR WILDCAT: Pitchfork Ranch /Morrow/

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 23, T24S, R34E

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other

2. NAME OF OPERATOR: 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 & 1980' FEL
At top prod. interval reported below: Same
At total depth: Same

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
-	2/14/84	Lea	NM

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
5-9-84	7-14-84	7-22-84	3401.3' GR	3401.3'

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
15,159'	15,085'		→	X	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 14938 - 15030 (Morrow)

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: BHC Sonic, Comp. Neutron Litho Density, Composite of Dual Laterolog and /Dual Induction

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
13-3/8"	61#	610'	17-1/2"	300 Sx. lite & 300 Cl C	Circulated
9-5/8"	36&40#	5200'	12-1/4"	2200 Sx. HLW & 500 Cl C	Circulated
7"	26#	13300'	8-3/4"	775 Sx. TLW & 400 Cl H	-

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
5-1/2"	12989'	14677'	210 Cl H	-
3-1/2"	14141'	15159'	175 Cl H	-

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	14141	ISA 14141

31. PERFORATION RECORD (*Interval, size and number*)
14938' - 15030' (.35", 24)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
14938-15030	None

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
7-22-84	Flowing	Shut-in

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
7-23-84	4	9/64"					800

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
5000	Sealed		3	2400	0	30.0

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 8/16/84

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

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.
Rustler	0	1316	Redbeds & Surface
	1316	2714	Sand, Shale
	2714	3858	Salt
	3858	4677	Anhy
	4677	5147	ANhy, Salt
Rustler & Delaware	5147	6225	Anhy, Lime
Delaware & Cherry Can.	6225	7138	Sand, Shale
Cherry Canyon	7138	7814	Anhy, Lime
Can,Leonard, Bone Spgs.	7814	9792	Sand, Lime, Shale
Bone Springs	9792	10233	Lime, Shale, Chert
Bone Springs & Wolfcamp	10233	13267	Shale, Lime, Sand
Wolfcamp	13267	13352	Shale
Wolfcamp & Strawn	13352	13644	Shale, Lime
Strawn & Atoka	13644	13845	Chert, Shale, Lime
Atoka & Morrow	13845	14526	Lime, Shale
Morrow	14526	14586	Lime
	14586	14763	Lime, shale
	14763	14808	Sand, Lime Shale
	14808	14824	Lime, Shale, Chert
	14824	14962	Shale
	14962	15014	Lime, Shale
	15014	15159	Shale, Lime, Sand

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Rustler	1055	
Delaware	5316	
Cherry Canyon	6254	
Cherry Can. Mrkr.	6522	
Leonard	9032	
Bone Springs Lime	9240	
Wolfcamp	12140	
Strawn	13582	
Atoka	13705	
Morrow Lime	14142	
Morrow Clastics	14396	

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