



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

TONY ANAYA
GOVERNOR

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

June 25, 1984

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

Attention: Betty Gildon

Administrative Order TX-136

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.

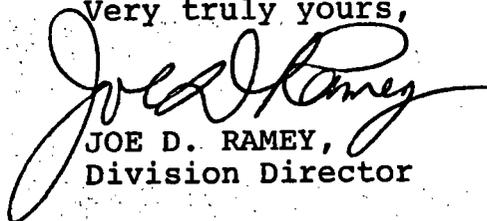
Pursuant to the authority granted me by Rule 107(d)(4), you are hereby authorized to set tubing at 14,033 feet in the following well:

Well Name and Number: Madera 32 State Well No. 2

Location: Unit J, Sec. 32, T-24S, R-34E, Lea County, NM

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/dp

cc: Oil Conservation Division - Hobbs

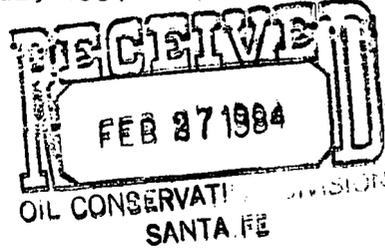
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P. O. BOX 2267, MIDLAND, TEXAS 79702 (915) 683-4871

February 22, 1984



Oil Conservation Commission
State of New Mexico
P. O. Box 2088
Santa Fe, NM 87501

Attn: Mr. Dan Nutter

In Re: Madera 32 State, Well No. 2
Sec. 32, T24S, R34E
Lea County, NM
LG-359

Dear Mr. Nutter:

Tubing for the above-named well has been set at 14,033 feet, and casing perforated from 15,020 to 15,026 feet.

This office requests administrative exception to Rule 107d.

Very truly yours,

HNG OIL COMPANY

Betty Gildon
Regulatory Analyst

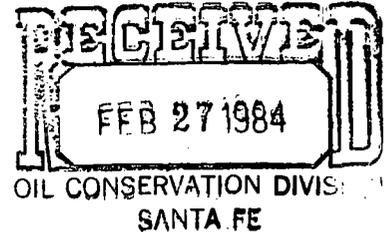
bg

enclosures



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

February 22, 1984



Oil Conservation Division
State Land Office Bldg.
Santa Fe, New Mexico 87501

In Re: Madera 32 State, Well No. 2
Sec. 32, T24S, R34E
Lea County, NM
LG-359

Attn: Mr. Dan Nutter:

Dear Mr. Nutter:

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
George M. Hover
Completion Engineer

GMH/bg

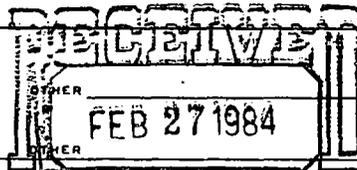
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OPERATOR	

Form C-105
Revised 11-1-8

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease
State Fee
5. State Oil & Gas Lease No.
LG-359

1a. TYPE OF WELL
OIL WELL GAS WELL DRY
b. TYPE OF COMPLETION
NEW WELL WORK OVER DEEPEN PLUG BACK DIFF. RESVR.



7. Unit Agreement Name
8. Farm or Lease Name
Madera 32 State
9. Well No.
2

2. Name of Operator
HNG OIL COMPANY
3. Address of Operator
P. O. Box 2267, Midland, Texas 79702

10. Field and Pool, or Wildcat
Pitchfork Ranch Morrow

4. Location of Well
UNIT LETTER J LOCATED 1650 FEET FROM THE south LINE AND 1980 FEET FROM
THE east LINE OF SEC. 32 TWP. 24S RGE. 34E NMPM

11. County
Lea

15. Date Spudded 10-5-83 16. Date T.D. Reached 1-9-84 17. Date Compl. (Ready to Prod.) 1-27-84 18. Elevations (DF, R&B, RT, GR, etc.) 3431.5' GR 19. Elev. Casinghead 3431.5'

20. Total Depth 15,160' 21. Plug Back T.D. 15,080' 22. If Multiple Compl., How Many
23. Intervals Drilled By: Rotary Tools Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name
15,020 - 15,026 (Morrow) 25. Was Directional Survey Made
No

26. Type Electric and Other Logs Run
Comp. of Dual Laterolog & Dual Ind.-SFL, Comp. Neut. Litho Dens. 27. Was Well Cored
No

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

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	61 & 48	600'	17-1/2	265 Pacesetter Lite & 250 Class C	Circulated
9-5/8"	36 & 40	5219'	12-1/4	2000 Pacesetter lite and 475 Class C	Circulated

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
5-1/2"	11,189'	14,338'	300 C1 H	-
3-1/2"	13,998'	15,148'	200 C1 H	-

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-7/8"	14033'	14033'

31. Perforation Record (Interval, size and number)
15,020 - 15,026 (4 holes, 1 shot/2 ft.)

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
15,020-15026	None

33. PRODUCTION

Date First Production 1-27-84 Production Method (*Flowing, gas lift, pumping - Size and type pump*) Flowing Well Status (*Prod. or Shut-in*) Shut-in

Date of Test	Hours Tested	Choke Size	Prod'n. Per Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
1-28-84	24	13/64"		0	4400	0	0

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)
5650	Sealed					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 information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED Betty Gildon TITLE Regulatory Analyst DATE 2/22/84

* 7" 26# set at 13,350', hole size 8-3/4", cemented with 800 Pacesetter lite and 400 Sx. C1. H.

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____	T. <u>Cherry</u> <u>6269</u>	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Canyon _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. <u>Strawn</u> <u>13600</u>	T. Fictured Cliffs _____	T. Penn. "D" _____
T. Yates _____	T. Atoka _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Miss _____	T. Menefee _____	T. Madison _____
T. Queen _____	T. Devonian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Silurian _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Montoya _____	T. Gallup _____	T. Ignacio Qtzte _____
T. Glorieta _____	T. Simpson _____	T. Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. McKee _____	T. Dakota _____	T. _____
T. Blinbry _____	T. Ellenburger _____	T. Morrison _____	T. _____
T. Tubb _____	T. Gr. Wash _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Granite _____	T. Entrada _____	T. _____
T. Abo _____	T. Delaware Sand <u>5297</u>	T. Wingate _____	T. _____
T. Wolfcamp <u>12274</u>	T. Bone Springs <u>9242</u>	T. Chinle _____	T. _____
T. Penn Atoka <u>13754</u>	T. <u>Morrow Lime</u> <u>14138</u>	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. <u>Morrow Clastics</u> <u>14391</u>	T. Penn. "A" _____	T. _____
	T. <u>C. Canyon Mrkr.</u> <u>6511</u>		

OIL OR GAS SANDS OR ZONES

No. 1, from <u>Morrow</u> <u>15020</u> to <u>15026</u>	No. 4, from _____ to _____
No. 2, from _____ to _____	No. 5, from _____ to _____
No. 3, from _____ to _____	No. 6, from _____ to _____

● IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from <u>None</u> to _____ feet.
No. 2, from _____ to _____ feet.
No. 3, from _____ to _____ feet.
No. 4, from _____ to _____ feet.

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	640	640	Anhy, Redbeds				
640	3715	3075	Anhy, Salt				
3715	6329	2614	100% Anhy				
6329	9945	3616	Sand, Shale, Lime				
9945	12189	3244	Shale, Lime Chert, Sand				
13189	13390	201	100% Shale				
13390	13762	372	Suale, Lime, Chert				
13762	14217	455	Shale, Sand, Lime				
14217	14836	619	Lime, Suale, Chert, Sand				
14836	14947	111	100% Shale				
14947	15160	213	Shale, Lime Sand				