STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

TONEY 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

pVZV2005037015

OK

hng Oil Company
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

Betty Gildon
Regulatory Analyst

bg

enclosures

hng Oil Company
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 ssembly 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
Completion Engineer

GMH/bg

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LAND OFFICE		
OPERATOR		

Form C-105
Revised 11-1-76

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

5a. Indicate Type of Lease: State [X] Fee [ ]

5. State Oil & Gas Lease No.: LG-359

1a. TYPE OF WELL: OIL WELL [ ] GAS WELL [X] DRY [ ] OTHER

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEPEN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] OTHER

RECEIVED
FEB 27 1984
OIL CONSERVATION DIVISION
SANTA FE

7. Unit Agreement Name:

8. Farm or Lease Name: Madera 32 State

2. Name of Operator: HNG OIL COMPANY

9. Well No.: 2

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

12. County: Lea

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

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

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 Cl H	-
3-1/2"	13,998'	15,148'	200 Cl 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	Production Method (Flowing, gas lift, pumping — Size and type pump)	Well Status (Prod. or Shut-in)
1-27-84	Flowing	Shut-in

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas — Oil Ratio
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 (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. Cl. 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. Cherry Canyon	6269	T. Ojo Alamo		T. Penn. "B"	
T. Salt		T. Strawn	13600	T. Kirtland-Fruitland		T. Penn. "C"	
B. Salt		T. Atoka		T. Pictured Cliffs		T. Penn. "D"	
T. Yates		T. Miss		T. Cliff House		T. Leadville	
T. 7 Rivers		T. Devonian		T. Menefee		T. Madison	
T. Queen		T. Silurian		T. Point Lookout		T. Elbert	
T. Grayburg		T. Montoya		T. Mancos		T. McCracken	
T. San Andres		T. Simpson		T. Gallup		T. Ignacio Qtzte	
T. Glorieta		T. McKee		Base Greenhorn		T. Granite	
T. Paddock		T. Ellenburger		T. Dakota		T.	
T. Blinebry		T. Gr. Wash		T. Morrison		T.	
T. Tubb		T. Granite		T. Todilto		T.	
T. Drinkard		T. Delaware Sand	5297	T. Entrada		T.	
T. Abo		T. Bone Springs	9242	T. Wingate		T.	
T. Wolfcamp	12274	T. Morrow Lime	14138	T. Chinle		T.	
T. ~~Penn~~ Atoka	13754	T. Morrow Clastics	14391	T. Permian		T.	
T Cisco (Bough C)		T. C. Canyon Mrkr.	6511	T. Penn. "A"		T.	

OIL OR GAS SANDS OR ZONES

No. 1, from Morrow 15020 to 15026 — 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 None 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				