

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
P. O. BOX 2088
Santa Fe, New Mexico 87501

February 8, 1983

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

Attention: Betty Gildon, Regulatory Analyst

Administrative Order TX-106

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.

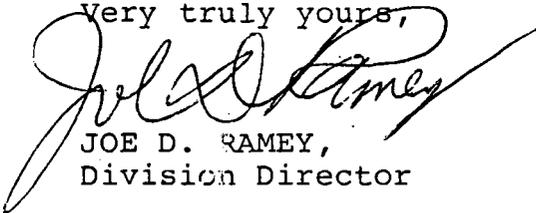
Pursuant to the authority granted me by Rule 107(d)(4), you are hereby authorized to set tubing at 11,865 feet in the following well:

Well Name and Number: Lovington Plains 2 State Well No. 1

Location: SW/4 NE/4 Sec. 2, T-18-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

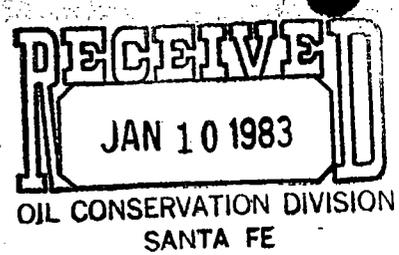
JDR/MES/dr

cc: Oil Conservation Division - Hobbs
Well File

PVZV2005029574



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



January 5, 1983

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

Attn: Mr. Joe D. Ramey
Secretary Director

In Re: Lovington Plains 2 State, Well No. 1
Sec. 2, T16S, R34E
Lea County, NM

Dear Mr. Ramey:

Please find enclosed copy of a letter to Mr. Dan Nutter dated 1/5/83, requesting an exception to the tubing-setting requirements contained in Division Rule 107(d).

To avoid delay in placing this well on stream, temporary approval of the above-named exception is requested.

Your early attention is appreciated.

Very truly yours,

HNG OIL COMPANY

Betty A. Gildon
Regulatory Clerk

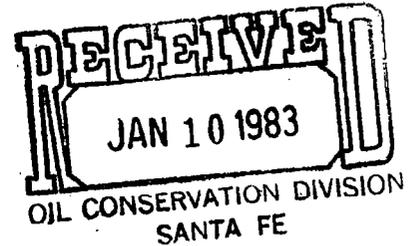
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enclosures



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

January 5, 1983



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

Attn: Mr. Dan Nutter

Re: Lovington Plains 2 State, Well No. 1
Sec. 2, T16S, R34E
Lea County, NM

Dear Mr. Nutter:

Tubing for the above-named well has been set at 11,865 feet, and casing perforated from 13,304 to 13,416 feet.

This office requests administrative exception to Rule 107d.

Very truly yours,

HNG OIL COMPANY

Betty Gildon
Regulatory Analyst

bg

enclosures

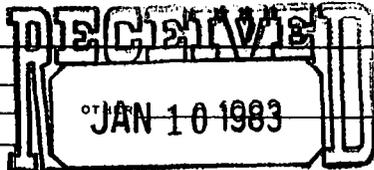
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LAND OFFICE	
OPERATOR	

Form C-105
Revised 11-1-82

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-0476



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
Lovington Plains 2 State

2. Name of Operator
HNG OIL COMPANY

3. Address of Operator
P. O. Box 2267, Midland, Texas 79702

9. Well No.
1

10. Field and Pool, or Wildcat
Wildcat Morrow

4. Location of Well
UNIT LETTER **G** LOCATED **1980** FEET FROM THE **north** LINE AND **1980** FEET FROM **east** THE LINE OF SEC. **2** TWP. **16S** RGE. **34E** NMPM

12. County
Lea

15. Date Spudded **7-30-82** 16. Date T.D. Reached **11-3-82** 17. Date Compl. (Ready to Prod.) **11-11-82** 18. Elevations (DF, RAB, RT, GR, etc.) **4088.9' GR** 19. Elev. Casinghead **4088.9'**

20. Total Depth **13,580'** 21. Plug Back T.D. **13,508'** 22. If Multiple Compl., How Many

23. Intervals Drilled By: Rotary Tools Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name
13,304' - 13,416' (Morrow)

25. Was Directional Survey Made
No

26. Type Electric and Other Logs Run
Dual Laterolog Micro-SFL, Compensated Neutron-Formation Density

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"	48#	435'	17-1/2"	200 Pacesetter Lite & 100	CI C Circ.
9-5/8"	40#	4562'	12-1/4"	2200 Pacesetter Lite & 425	CI C Circ.

29. LINER RECORD -

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
4-1/2" & 5"	11,850'	13,580'	1825	-

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-3/8"	11,865'	PBR 11,865'

31. Perforation Record (Interval, size and number)
13,304 - 13,352, 13,370 - 13,396, and 13,400 - 13,416 (.35" 29)

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
13304 - 13416	7-1/2% Acid

33. PRODUCTION

Date First Production **11-29-82** 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. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
12-7-82	24	20/64"		0	400	0	0

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)
825	Sealed					0

34. Disposition of Gas (*Sold, used for fuel, vented, etc.*) **- Vented** Test Witnessed By

35. List of Attachments
Logs and Inclination Report

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 Gilson TITLE Regulatory Analyst DATE January 5, 1983

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. Rustler	2353	T. Canyon		T. Ojo Alamo		T. Penn. "B"	
T. Anhy		T. Strawn	12096	T. Kirtland-Fruitland		T. Penn. "C"	
T. Salt		T. Atoka	12364	T. Pictured Cliffs		T. Penn. "D"	
B. Salt	2947	T. Miss		T. Cliff House		T. Leadville	
T. Yates		T. Devonian		T. Menefee		T. Madison	
T. 7 Rivers		T. Silurian		T. Point Lookout		T. Elbert	
T. Queen	3788	T. Montoya		T. Mancos		T. McCracken	
T. Grayburg		T. Simpson		T. Gallup		T. Ignacio Qtzite	
T. San Andres	4460	T. McKee		Base Greenhorn		T. Granite	
T. Gloriaeta	5924	T. Ellenburger		T. Dakota		T.	
T. Paddock		T. Gr. Wash		T. Morrison		T.	
T. Blinebry		T. Granite		T. Todilto		T.	
T. Tubb	7282	T. Delaware Sand		T. Entrada		T.	
T. Drinkard		T. Bone Springs		T. Wingate		T.	
T. Abo	8766	T. Clear Fork	6730	T. Chinle		T.	
T. Wolfcamp	9816	T. Morrow Lime	12976	T. Permian		T.	
T. Penn.	10676	T. Morrow Clastics	13192	T. Penn. "A"		T.	
T. Cisco (Bough C)							

OIL OR GAS SANDS OR ZONES

No. 1, from <u>Morrow 13,304</u> to <u>13,416</u>	No. 4, from
No. 2, from	No. 5, from
No. 3, from	No. 6, from

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	feet.
No. 3, from	feet.
No. 4, from	feet.

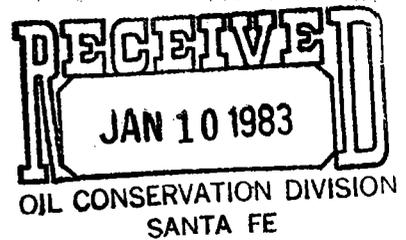
FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	98	98	Surface Rock	6500	6860	360	Anhy
98	196	98	Sand	6860	9800	2940	Dolo, Sand, Shale, Anhy, Lime
196	455	259	Redbeds and Red Clay	9800	10020	220	Dolo
455	1197	742	Surface Rock	10020	10260	240	Lime
1197	1770	573	Redbeds	10260	10759	499	Lime, Dolo, Shale
1770	2946	1176	Shale, Sand, Anhy	10759	10951	192	Lime, Dolo, Chert, Shale
2946	3280	334	Shale, Anhy, Salt	10951	11077	126	Lime
3280	3631	351	Anhy, Shale	11077	11212	135	Shale
3631	4295	664	Anhy	11212	11585	373	Shale, Lime
4295	4562	267	Anhy, Dolo, Shale	11585	11780	195	Lime, Shale, Chert
4562	5100	538	Dolo	11780	12217	437	Lime, Shale
5100	6144	1044	Dolo, Anhy	12217	12485	268	Lime
6144	6500	356	Dolo, Sand, Lime, Anhy	12485	13568	1083	Lime, Shale, Snad
				13568	13580	12	Lime, Shale



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

January 5, 1983



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

Re: Lovington Plains 2 State, Well No. 1
Sec. 2, T16S, R34E
Lea County, NM

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