

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

October 15, 1982

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

Attention: Betty Gildon

Administrative Order TX-98  
Temporary Only

Gentlemen:

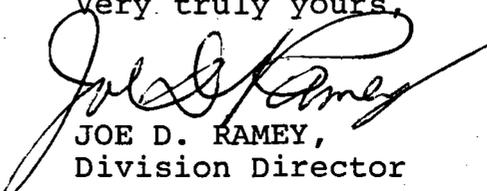
Reference is made to your request for an exception to the tubing setting requirements as contained in Division Rule 107(d)(3) for the below-named well.

Pursuant to the authority granted me by Rule 107(d)(4), you are hereby authorized to set tubing at 11,721 feet in the following well:

<u>LEASE NAME</u>	<u>WELL NO.</u>	<u>UNIT</u>	<u>S-T-R</u>
Lovington Plains 1, State Com	1	F	1-16S-34E

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

P.S. This well shows an unusually low gas-liquid ratio for a gas well, being 22,917 to one based on 24-hour gas production of 1.1 million cubic feet and 8 barrels of condensate and 40 barrels of water. The distance from the uppermost perforation to the tubing setting depth of 11,721 feet is 1335 feet. We would normally deny such an extreme exception to Rule 107d(3) based on

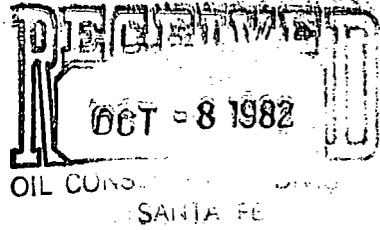
PVEV 2004437000

gas-liquid ratio and distance but are approving this exception on a temporary basis in the hope that the ratio will increase if water production declines. Please re-test this well after 30 days' production and notify this office of the results. Our Hobbs District Office (Telephone 505 393-6161) should be notified of the date and hour of the test so that it may be witnessed.



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

October 6, 1982



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

Attn: Mr. Dan Nutter

In Re: Lovington Plains 1 State Com., Well No. 1  
1980' FNL & 1980' FWL, Sec. 1, T16S, R34E,  
Lea County, New Mexico

Dear Mr. Nutter:

Tubing for the above-named well has been set at 11,721 feet, and casing perforated from 13,056 to 13,251 feet.

This office requests administrative exception to Rule 107d.

Very truly yours,

HNG OIL COMPANY

Betty Gildon  
Regulatory Analyst

bg

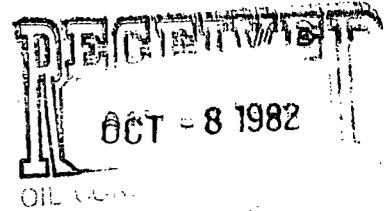
enclosure

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

October 6, 1982



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

Attn: Mr. Dan Nutter:

Re: Lovington Plains 1 State Com., Well No. 1  
1980' FNL & 1980' FWL, Sec. 1, T46S, R34E,  
Lea County, New Mexico.

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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Form C-105  
Revised 11-7-8

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

**OCT - 8 1982**

5a. Indicate Type of Lease  
State  Fee   
5. State Oil & Gas Lease No.  
**LG-0597**

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

7. Unit Agreement Name  
8. Farm or Lease Name  
**Lovington Plains 1 State Com.**

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

9. Well No. **1**  
10. Field and Pool, or Wildcat  
**Und. N. Eidson Morrow**

UNIT LETTER **F** LOCATED **1980** FEET FROM THE **north** LINE AND **1980** FEET FROM THE **west** LINE OF SEC. **1** TWP. **16S** RGE. **34E** NMPM

12. County  
**Lea**

15. Date Spudded **6-22-82** 16. Date T.D. Reached **8-19-82** 17. Date Compl. (Ready to Prod.) **8-28-82** 18. Elevations (DF, RKB, RT, GR, etc.) **4078.2' GR** 19. Elev. Casinghead **4078.2'**  
20. Total Depth **13,320'** 21. Plug Back T.D. **13,264'** 22. If Multiple Compl., How Many **Rotary Tools** 23. Intervals Drilled By **X** Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name  
**13,056 - 13,251' (Morrow)** 25. Was Directional Survey Made **No**

26. Type Electric and Other Logs Run  
**Comp. Neutron-Formation Density and Dual Laterolog** 27. Was Well Cored **Yes**

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#	440'	17-1/2"	200 65/35 Poz & 100 C1 C	Circ.
9-5/8"	40#	4580'	12-1/4"	1260 DLW & 200 C1 H	Circ.
4-1/2 & 5-1/2"	13.5 & 17#	13320'	8-3/4"	325 Lite & 875 50/50 PozH	Top of 4-1/2" at 10,870'

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
None					2-3/8"	11,721'	ISA 11,721'

31. Perforation Record (Interval, size and number)  
**13,056 - 13,057, 13,123 - 13,172, 13,218 - 13,251 (.35" 23)**

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
13056 - 13251	5000 gals acid

33. PRODUCTION

Date First Production **8/27/82** Production Method (Flowing, gas lift, pumping - Size and type pump) **Flowing** Well Status (Prod. or Shut-in) **SI**

Date of Test <b>10/1/82</b>	Hours Tested <b>24</b>	Choke Size <b>18/64"</b>	Prod'n. For Test Period <b>8</b>	Oil - Bbl. <b>1100</b>	Gas - MCF <b>22,917</b>	Water - Bbl. <b>40</b>	Gas - Oil Ratio <b>138</b>
Flow Tubing Press. <b>600</b>	Casing Pressure <b>-</b>	Calculated 24-Hour Rate <b>-</b>	Oil - Bbl. <b>-</b>	Gas - MCF <b>-</b>	Water - Bbl. <b>-</b>	Oil Gravity - API (Carr.) <b>30.0</b>	

34. Disposition of Gas (Sold, used for fuel, vented, etc.) **Vented** Test Witnessed By **13056 11721 48/1100000 1335**

35. List of Attachments  
**Inclination Report and 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 Giddon** TITLE **Regulatory Analyst** DATE **October 6, 1982**

**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 20 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		
Rustler	1775	T. Canyon	T. Ojo Alamo	T. Penn. "B"	
T. Anhy		T. Strawn	12028	T. Kirtland-Fruitland	T. Penn. "C"
T. Salt		T. Atoka	12264	T. Fictured Cliffs	T. Penn. "D"
B. Salt		T. Miss		T. Cliff House	T. Leadville
T. Yates	2950	T. Devonian		T. Menefee	T. Madison
T. 7 Rivers		T. Silurian		T. Point Lookout	T. Elbert
T. Queen	3790	T. Montoya		T. Mancos	T. McCracken
T. Grayburg		T. Simpson		T. Gallup	T. Ignacio Qtzite
T. San Andres	4488	T. McKee		Base Greenhorn	T. Granite
T. Glorieta	5936	T. Ellenburger		T. Dakota	
T. Paddock		T. Gr. Wash		T. Morrison	
T. Blinebry		T. Granite		T. Todilto	
T. Tubb	7284	T. Delaware Sand		T. Entrada	
T. Drinkard		T. Bone Springs		T. Wingate	
T. Abo	8780	T. Clear Fork	6740	T. Chinle	
T. Wolfcamp	Lime 9796	T. Morrow Lime	12896	T. Permian	
T. Penn.	10664	T. Morrow Clastics	13122	T. Penn. "A"	
T. Cisco (Bough C)					

**OIL OR GAS SANDS OR ZONES**

No. 1, from 13056 to 13251	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	2580	2580	Sand, Shale, Lime				
2580	3414	834	Sand, Anhy, Shale				
3414	6513	3099	Anhy, Dolo, Shale				
6513	7368	855	Anhy, Dolo, Sand				
7368	7691	323	Anhy, Dolo, Shale, Sand				
7691	8012	321	100% Anhy				
8012	8400	388	Dolo, Anhy				
8400	8735	335	Dolo, Sand, Shale				
8735	10049	1314	Anhy, Dolo, Shale				
10049	10385	336	Lime, Dolo				
10385	10590	205	Lime, Shale, Chert				
10590	11745	1155	Lime, Dolo, Shale				
11745	12000	255	Shale, Lime, Chert				
12000	12786	786	Shale, Lime, Sand				
12786	12837	51	100% Sand				
12837	13320	483	Sand, Shale, Lime				