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:

LEASE NAME	WELL NO.	UNIT	S-T-R
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

pVEV2004437000

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.

hng Oil Company
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

hng Oil Company
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, T16S, 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 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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OPERATOR		

Form C-105
Revised 11-1-78

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

OCT - 8 1982
OIL CONSERVATION DIVISION
SANTA FE

5a. Indicate Type of Lease: State [X] Fee [ ]
5. State Oil & Gas Lease No.: LG-0597

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

7. Unit Agreement Name:
8. Farm or Lease Name: Lovington Plains 1 State Com.
9. Well No.: 1
10. Field and Pool, or Wildcat: Und. N. Eidson Morrow

2. Name of Operator: HNG OIL COMPANY
3. Address of Operator: P. O. Box 2267, Midland, Texas 79702
4. Location of Well: 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	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Cashinghead
6-22-82	8-19-82	8-28-82	4078.2' GR	4078.2'

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
13,320'	13,264'		→	X	

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 Cl C	Circ.
9-5/8"	40#	4580'	12-1/4"	1260 DLW & 200 Cl 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

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
None				

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
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	Production Method (Flowing, gas lift, pumping — Size and type pump)	Well Status (Prod. or Shut-in)
8/27/82	Flowing	SI

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas — Oil Ratio
10/1/82	24	18/64"		8	1100	40	138

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Oil Gravity — API (Corr.)
600	-					30.0

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

13056
11721
1335

22,917
48/1100000

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 Gildon TITLE Regulatory Analyst DATE October 6, 1982

Betty Gildon

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

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				