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

pVEV2005029574

hng Oil Company
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 Gildon

Betty A. Gildon
Regulatory Clerk

bg

enclosures

hng Oil Company
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

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OPERATOR		

Form C-105
Revised 11-1-78

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-0476

RECEIVED
JAN 10 1983
OIL CONSERVATION DIVISION
SANTA FE

1a. TYPE OF WELL

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

OIL WELL [ ] GAS WELL [X] DRY [ ] OTHER [ ]

7. Unit Agreement Name:

8. Farm or Lease Name: Lovington Plains 2 State

9. Well No.: 1

2. Name of Operator: HNG OIL COMPANY

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

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 THE east LINE OF SEC. 2 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
7-30-82	11-3-82	11-11-82	4088.9' GR	4088.9'

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
13,580'	13,508'		→	X	

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 Cl C	Circ.
9-5/8"	40#	4562'	12-1/4"	2200 Pacesetter Lite & 425 Cl 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	Production Method (Flowing, gas lift, pumping — Size and type pump)	Well Status (Prod. or Shut-in)
11-29-82	Flowing	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 Gildon TITLE Regulatory Analyst DATE January 5, 1983

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

OIL OR GAS SANDS OR ZONES

No. 1, from Morrow 13,304 to 13,416 — 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	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

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

January 5, 1983

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

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

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

George M. Hover
Completion Engineer

GMH/bg