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-134

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 10,278 feet in the following well:

Well Name and Number: Loving 36 State, Well No. 1

Location: Unit N, Section 36, Township 23 South, Range 27 East, Eddy County, New Mexico

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 - Artesia

PVEY2005036874

OK

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

March 6, 1984

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

Attn: Mr. Dan Nutter

In Re: Loving 36 State, Well No. 1
LG-8597
Sec. 36, T23S, R27E
Eddy County, Texas

Dear Mr. Nutter:

Tubing for the above-named well has been set at 10,278 feet, and casing perforated from 11,409 to 11,456 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

March 6, 1984

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

Attn: Mr. Dan Nutter:

In Re: Loving 36 State, Well No. 1
LG-8597
Sec. 36, T23S, R27E
Eddy County, NM

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 Eng.

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

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

5. State Oil & Gas Lease No.: LG-8597

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: Loving 36 State

2. Name of Operator: HNG OIL COMPANY

9. Well No.: 1

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

10. Field and Pool, or Wildcat: Black River Atoka

4. Location of Well

UNIT LETTER N LOCATED 660 FEET FROM THE south LINE AND 2070 FEET FROM THE west LINE OF SEC. 36 TWP. 23S RGE. 27E NMPM

12. County: Eddy

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Cashinghead
1-9-83	3-6-83	3-1-83	3121.4' GR	3121.4'

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
12,820	11,670		→	X	

24. Producing Interval(s), of this completion — Top, Bottom, Name: 11,409' to 11,456' (Atoka)

25. Was Directional Survey Made: No

26. Type Electric and Other Logs Run: CNL/FDC/EPT, Composite of Dual Laterolog, Micro-SFL and Dual Induction, compensated Nuetron-Formation Density and Electromagnetic /propagation.

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#	535'	17-1/2"	300 HLW & 200 Cl C	Circulated
				Cemented annulus thru 1" with 400 Cl C	
9-5/8"	36#	2260'	12-1/4"	1050 HLW & 450 Cl C	Circulated
7"	23#	10500'	8-1/2"	850 TLW & 525 Cl H	-

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
4-1/2"	10,243'	12,818'	400	-

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-3/8"	10,278 MWL	ISA 10,278'

31. Perforation Record (Interval, size and number)

12,106 to 12,386 (.35" 15)
12,610 to 12,658 (.35" 12)

11,409 to 11,456 (.25" 18)

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
12106 - 12386	sq. w/75 sxx Cl H
12610 - 12658	Cmt ret at 12520 sq. w/35 Cl H
	leaving 25' cement on top.
11409 - 11456	None

33. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping — Size and type pump)	Well Status (Prod. or Shut-in)
3-1-84	Flowing	Shut-in

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas — Oil Ratio
3-2-84	24	13/64"		1	2000	1	2000

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Oil Gravity — API (Corr.)
2750	Sealed					48.0

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 TITLE Regulatory Analyst DATE 3/6/84

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		T. Canyon	Cherry 3110	T. Ojo Alamo		T. Penn. "B"	
T. Salt		T. Strawn	11172	T. Kirtland-Fruitland		T. Penn. "C"	
B. Salt		T. Atoka	11384	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	2320	T. Entrada		T.	
T. Abo		T. Bone Springs	5880	T. Wingate		T.	
T. Wolfcamp	9213	T. Morrow Lime	11951	T. Chinle		T.	
T. Penn.		T. Morrow Clastics	12138	T. Permian		T.	
T Cisco (Bough C)		T.		T. Penn. "A"		T.	

OIL OR GAS SANDS OR ZONES

No. 1, from Morrow 12106 to 12658 No. 4, from ..... to .....

No. 2, from Atoka 11409 to 11456 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	1007	1007	Anhy				
1007	2026	1019	Anhy, Sand				
2026	3055	1029	Anhy, Salt				
3055	6279	3224	Sand, Shale				
6279	7549	1270	Sand, Shale, Lime				
7549	8422	873	100% Lime				
8422	9808	1386	Shale, Lime, Sand				
9808	11413	1605	Shale, Lime				
11413	11448	35	Sand, Shale, Lime				
11448	11732	284	Shale, Lime				
11732	11824	92	Lime Chert				
11824	12080	256	Shale, Lime				
12080	12102	22	Lime, Chert				
12102	12267	165	Shale, Lime, Chert, Sand				
12267	12626	359	Shale, Sand				
12626	12816	190	Shale, Sand, lime				
12816	12820	4	100% Shale				

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
ARTESIA DISTRICT OFFICE
November 28, 1983

TONEY ANAYA
GOVERNOR

P.O. DRAWER DD
ARTESIA, NEW MEXICO 88210
(505) 748-1283

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

Re: Loving 1 State
#2-N-1-24-27
Black River Morrow

Gentlemen:

Regarding your C-104 dated July 11, 1983, on the above captioned well, we have received a Notice of Connect from Transwestern Pipeline Company for the well.

However, we cannot approve your C-104 until you apply for and receive tubing exceptions as per Rule 107, Paragraph d. Sections (2) and (3).

Once the tubing exceptions have been approved, we will approve your C-104 and distribute the approved copies.

Very truly yours,

Leslie A. Clements

Leslie A. Clements
Supervisor District II

LAC/pw

XC: Santa Fe