

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

July 26, 1983

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

Attention: Betty A. Gildon
Regulatory Clerk

Administrative Order TX-111

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.

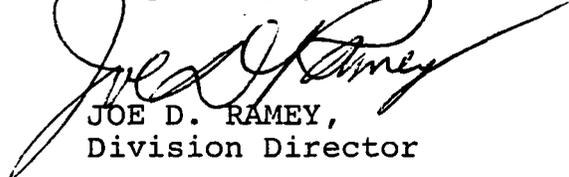
Pursuant to the authority granted me by Rule 107(d) (4), you are hereby authorized to set tubing at 10,229 feet in the following well:

Well Name and Number: Loving 1 State Well No. 2

Location: 990' FSL and 2110' FWL of Section 1,
T-24-S, R-27-E, NMPM, Eddy 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/RLS/h

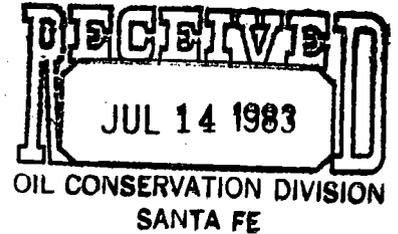
cc: Oil Conservation Division - Artesia
Well File
Oil & Gas Division - State Land Office - Santa Fe

PV2V2005030561



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

July 11, 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: Loving 1 State, Well No. 2
990' FSL & 2110' FWL
Sec. 1, T24S, R27E
Eddy County, NM

Dear Mr. Ramey:

Please find enclosed copy of a letter to Mr. Dan Nutter dated July 11, 1983, 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

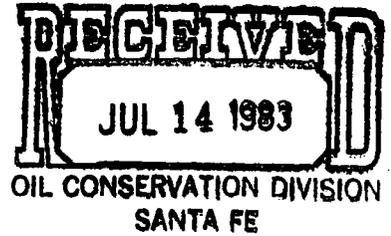
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enclosures



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

July 11, 1983



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

Attn: Mr. Dan Nutter

In Re: Loving 1 State, Well No. 2
990' FSL & 2110' FWL, Sec. 1, T24S, R27E
Eddy County, New Mexico

Dear Mr. Nutter:

Tubing for the above-named well has been set at 10,229 feet,
and casing perforated from 12,316 to 12,430 feet.

This office requests administrative exception to Rule 107d.

Very truly yours,

HNG OIL COMPANY

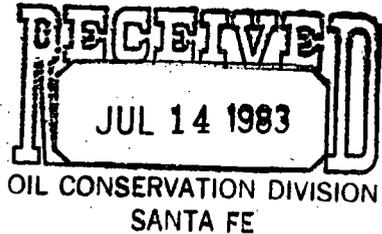
Betty Gildon
Regulatory Analyst

bg

enclosure



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



July 11, 1983

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

In Re: Loving 1 State, Well No. 2
990' FSL & 2110' FWL
Sec. 1, T24S, R27E
Eddy 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.

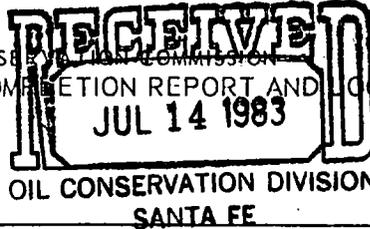
Very truly yours,

George M. Hover
Completion Engineer

GMH/bg

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LAND OFFICE	
OPERATOR	

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



Form C-105
Revised 11-78

5a. Indicate Type of Lease
State Fee

5. State Oil & Gas Lease No.
LG-23

1a. TYPE OF WELL
OIL WELL GAS WELL DRY OTHER _____

b. TYPE OF COMPLETION
NEW WELL WORK OVER DEEPEN PLUG BACK DIFF. RESVR. OTHER _____

7. Unit Agreement Name

8. Farm or Lease Name
Loving 1 State

2. Name of Operator
HNG OIL COMPANY

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

9. Well No.
2

10. Field and Pool, or Wildcat
Black River Morrow

4. Location of Well
UNIT LETTER N LOCATED 990 FEET FROM THE south LINE AND 2110 FEET FROM THE west LINE OF SEC. 1 TWP. 24S RGE. 27E NMPM

12. County
Eddy

15. Date Spudded 3-17-83 16. Date T.D. Reached 4-25-83 17. Date Compl. (Ready to Prod.) 6-3-83 18. Elevations (DF, RKB, RT, GR, etc.) 3128' GR 19. Elev. Casinghead 3128'

20. Total Depth 12,840' 21. Plug Back T.D. 12,541' 22. If Multiple Compl., How Many _____ 23. Intervals Drilled By Rotary Tools X Cable Tools _____

24. Producing Interval(s), of this completion - Top, Bottom, Name
12,316' - 12,430' (Morrow)

25. Was Directional Survey Made
No

26. Type Electric and Other Logs Run Electromagnetic Propagation, LDT/CNL/ EPT, Compensated Neutron Litho Density, Dual Laterolog

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#	556'	17-1/2"	250 HLC & 250 C1 H	Circ.
9-5/8"	36#	2255'	12-1/4"	900 HLC & 45 C1 C	Circ.
7"	23#	10562'	8-1/2"	850 HLC & 525 C1 H	-

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
4-1/2"	10228	12840	425 C1 H	-	2-3/8"	10,229'	ISA 10,229'

30. TUBING RECORD

31. Perforation Record (Interval, size and number)

12,655-12,662 (.40" 16)	
12,316-12,430 (.29" 25)	

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
12655-12662	Sq.w/40 sx. C1 H tested to 5000#
12316-12430	12,000 gal pad, 9000 gal MS frac 6000 gal frac fluid, 45,000 gal apollo 50 gel, 64,800 20-40

33. PRODUCTION /bauxite

Date First Production 6-28-83 Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing Well Status (Prod. or Shut-in) Shut-in

Date of Test 6-29-83 Hours Tested 24 Choke Size 7/64" Prod'n. For Test Period 0 Oil - Bbl. 0 Gas - MCF 1125 Water - Bbl. 0 Gas-Oil Ratio -

Flow Tubing Press. 3250 Casing Pressure Sealed Calculated 24-Hour Rate 0 Oil - Bbl. 0 Gas - MCF 1125 Water - Bbl. 0 Oil Gravity - API (Corr.) -

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

35. List of Attachments
Logs, Inclination Survey

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 Eldon TITLE Regulatory Analyst DATE 7/11/83

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 26 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 depth 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 _____ 3146	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____ 11162	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka _____ 11321	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____	T. Morrow Lime _____ 11932	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Morrow Clastics _____ 12146	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 Qtzite _____
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 _____ 9190	T. Bone Springs _____ 5883	T. Wingate _____	T. _____
T. Wolfcamp _____	T. Cherry Canyon Marker _____ 3328	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. Brushy Canyon _____ 4358	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from 12,316 to 12,430	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	606	606	Surface Rock				
606	1368	762	Anhy				
1368	2119	741	Anhy, Salt				
2119	3351	1232	Anhy				
3351	4385	1034	Shale, Sand, Lime				
4385	5554	1169	Dolomite, Shale, Sand				
5554	6080	526	Sand				
6080	8354	2274	Lime, Sand				
8354	11880	3526	Lime, Sand Shale				
11880	12300	420	Chert, Lime				
12300	12840	540	Lime, Sand, Shale				