

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.

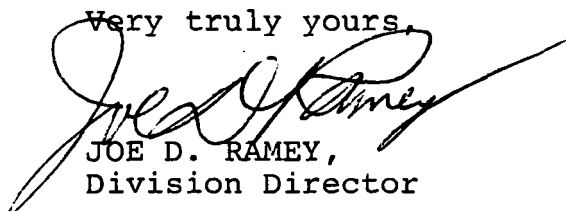
Pursuant to the authority granted me by Rule 107(d) (4), you are hereby authorized to set tubing at 10,229 feet in the following well:

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

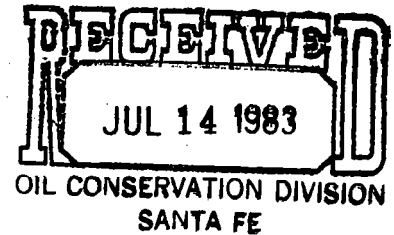
cc: Oil Conservation Division - Artesia  
Well File  
Oil & Gas Division - State Land Office - Santa Fe

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

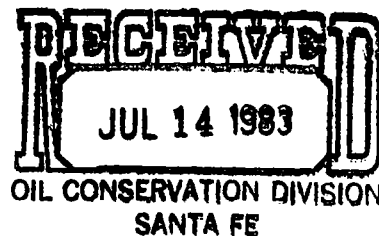
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enclosures



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

A handwritten signature in cursive script that reads "Betty Gildon".

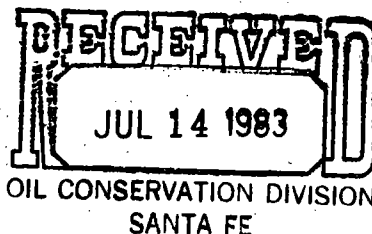
Betty Gildon  
Regulatory Analyst

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,

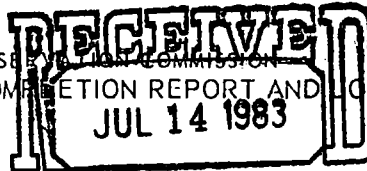
*George M. Hover*  
*leg*

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 LOG



OIL CONSERVATION DIVISION  
SANTA FE

Form C-105  
Revised 11-1-78

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.	
LG-23	

1a. TYPE OF WELL		7. Unit Agreement Name	
OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER <input type="checkbox"/>			
b. TYPE OF COMPLETION		8. Farm or Lease Name	
NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER <input type="checkbox"/>		Loving 1 State	

2. Name of Operator		9. Well No.	
HNG OIL COMPANY		2	
3. Address of Operator		10. Field and Pool, or Wildcat	
P.O. Box 2267, Midland, Texas 79702		Black River Morrow	

4. Location of Well		12. County	
UNIT LETTER <u>N</u> LOCATED <u>990</u> FEET FROM THE <u>south</u> LINE AND <u>2110</u> FEET FROM <u>west</u>		Eddy	
THE <u>west</u> LINE OF SEC. <u>1</u> TWP. <u>24S</u> RGE. <u>27E</u> NMPM			

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Casinghead
3-17-83	4-25-83	6-3-83	3128' GR	3128'
20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools
12,840'	12,541'			Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name	25. Was Directional Survey Made
12,316' - 12,430' (Morrow)	No

26. Type Electric and Other Logs Run	27. Was Well Cored
Electromagnetic Propagation, LDT/CNL/ EPT, Compensated Neutron Litho Density, Dual Laterolog	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					30. TUBING 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

31. Perforation Record (Interval, size and number)	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
	12,655-12,662 (.40" 16)	Sq.w/40 sx. C1 H tested to 5000#
	12,316-12,430 (.29" 25)	12,000 gal pad, 9000 gal MS frac 6000 gal frac fluid, 45,000 gal apollo 50 gel, 64,800 20-40

33. PRODUCTION							
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)	
6-28-83		Flowing				Shut-in	
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas-Oil Ratio
6-29-83	24	7/64"		0	1125	0	-
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
3250	Sealed						

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

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 <u>Betty Gildon</u>	TITLE <u>Regulatory Analyst</u>	DATE <u>7/11/83</u>
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## 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	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates	T. Morrow Lime	T. Cliff House	T. Leadville
T. 7 Rivers	T. Morrow Clastics	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	Pase 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	T. Entrada	T.
T. Abo	T. Bone Springs	T. Wingate	T.
T. Wolfcamp	T. Cherry Canyon Marker	T. Chinle	T.
T. Penn.	T.	T. Permian	T.
T. Cisco (Bough C)	T. Brushy Canyon	T. Penn. "A"	T.

## OIL OR GAS SANDS OR ZONES

No. 1, from 12,316 to 12,430

No. 2, from to

No. 3, from to

No. 4, from to

No. 5, 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				