



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.

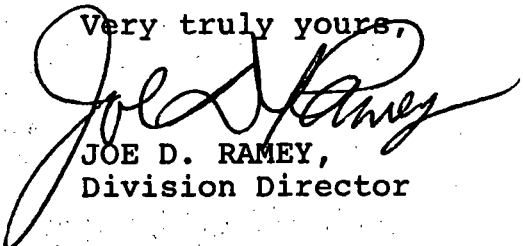
Pursuant to the authority granted me by Rule 107(d)(4), you are hereby authorized to set tubing at 10,278 feet in the following well:

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

PVZV2005036874



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,

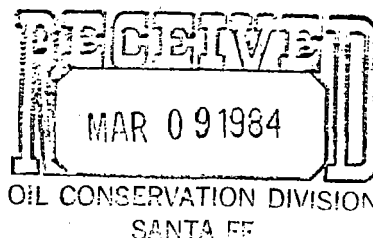
HNG OIL COMPANY

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

Betty Gildon
Regulatory Analyst

bg

enclosures





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
George M. Hover
Completion Engineer

GMH/bg

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FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

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

Form C-105
Revised 11-1-83

5a. Indicate Type of Lease State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No. LG-8597
7. Unit Agreement Name
8. Farm or Lease Name Loving 36 State
9. Well No. 1
10. Field and Pool, or Wildcat Black River Atoka

1a. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____	
b. TYPE OF COMPLETION 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 _____	
2. Name of Operator HNG OIL COMPANY	
3. Address of Operator P. O. Box 2267, Midland, Texas 79702	
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 1-9-83	16. Date T.D. Reached 3-6-83	17. Date Compl. (Ready to Prod.) 3-1-83	18. Elevations (DF, RKB, RT, GR, etc.) 3121.4' GR	19. Elev. Casinghead 3121.4'
20. Total Depth 12,820	21. Plug Back T.D. 11,670	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 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 Neutron-Formation Density and Electromagnetic	27. Was Well Cored No
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28. CASING RECORD (Report all strings set in well) /propagation.					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT FULLED
13-3/8"	48#	535'	17-1/2"	300 HLW & 200 C1 C	Circulated
				Cemented annulus thru 1" with 400 C1 C	
9-5/8"	36#	2260'	12-1/4"	1050 HLW & 450 C1 C	Circulated
7"	23#	10500'	8-1/2"	850 TLW & 525 C1 H	-

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
4-1/2"	10,243'	12,818'	400	-	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 C1 H
	12610 - 12658	Cmt ret at 12520 sq. w/35 C1 H leaving 25' cement on top.
	11409 - 11456	None

33. PRODUCTION							
Date First Production 3-1-84		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing				Well Status (Prod. or Shut-in) Shut-in	
Date of Test 3-2-84	Hours Tested 24	Choke Size 13/64"	Prod'n. Per Test Period 1	Oil - Bbl. 2000	Gas - MCF 1	Water - Bbl. 2000	Gas - Oil Ratio 48.0
Flow Tubing Press. 2750	Casing Pressure Sealed	Calculated 24-Hour Rate →	Oil - Bbl. →	Gas - MCF →	Water - Bbl. →	Oil Gravity - API (Corr.) 48.0	

34. Disposition of Gas (Sold, used for fuel, vented, etc.) Vented	Test Witnessed By
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35. List of Attachments Logs
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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 Seldon Betty Seldon	TITLE Regulatory Analyst	DATE 3/6/84

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"
T. 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 Qtzite
T. Glorieta	T. McKee		Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger		T. Dakota	T.
T. Blinberry	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	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)

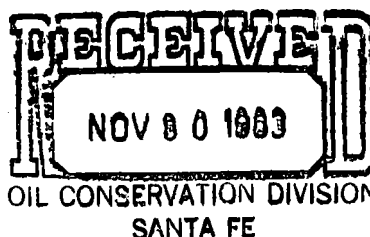
From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	1007	1007	Anhy				
1007	2026	1019	Anhy, Sand				
2026	3055	1029	Anhy, Salt				
3055	6279	3224	Sand, Shale				
6279	7549	1270	Sand, Shale, Lime				
7549	8422	873	100% Lime				
8422	9808	1386	Shale, Lime, Sand				
9808	11413	1605	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				



TONEY ANAYA
GOVERNOR

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

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