STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

TONEY ANAYA
GOVERNOR

August 28, 1984

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

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

Attention: Betty Gildon

Administrative Order TX-144

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 11,498 feet in the following well:

Well Name and Number: Shoe Bar State Com Well No. 1

Location: Unit L, Sec. 14, T-17-S, R-35-E, NMPM,
Lea 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/h

cc: Oil Conservation Division - Hobbs

pVZV2005037803

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

August 20, 1984

Oil Conservation Division
P. O. Box 2088
State Land Office Bldg.
Santa Fe, NM 87501

Attn: Mr. Joe D. Ramey
Division Director

In Re: Shoe Bar 14 State Com., Well No. 1
1980' FSL & 660' FWL, Sec. 14, T17S, R35E
Lea County, New Mexico

Dear Mr. Ramey:

Tubing for the above-named well has been set at 11,498 feet, and casing perforated from 12,141 to 12,156 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

August 20, 1984

Oil Conservation Division
P. O. Box 2088
State Land Office Bldg.
Santa Fe, New Mexico 87501

Attn: Mr. Joe D. Ramey
Division Director

Dear Mr. Ramey:

There are several reasons why we feel that completions utilizing a TIW Polish Bore Receptable 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
Petroleum Engineer III

GMH/bg

NO. OF COPIES RECEIVED		
DISTRIBUTION		
SANTA FE		
FILE		
U.S.G.S.		
LAND OFFICE		
OPERATOR		

Form C-105
Revised 11-1-58

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-2051

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: Shoe Bar 14 State Com.

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: Wildcat/Morrow/

4. Location of Well

UNIT LETTER L LOCATED 1980 FEET FROM THE south LINE AND 660 FEET FROM THE west LINE OF SEC. 14 TWP. 17S RGE. 35E 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
3-8-84	4-20-84	6-26-84	3938.5' GR	3938.5'

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
12,978'	12,910'		→	X	

24. Producing Interval(s), of this completion — Top, Bottom, Name: 12,151' - 12,156' (Morrow)

25. Was Directional Survey Made: No

26. Type Electric and Other Logs Run: Repeat Formation Tester (2); Dual Laterolog Micro-SFL, BHC Sonic, Comp. Neutron-Litho Denisty

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"	61#	464'	17-1/2"	500 Cl H	Circulated
9-5/8"	40#	4933'	12-1/4"	2000 HLW & 300 Cl C	Circulated
5-1/2" & 4-1/2"	17# & 13.5#	12978'	8-3/4"	475 Cl H, HLW & 700 Cl H	
				50-50 Poz.	-

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-3/8"	11,498'	PBR 11,498'
		-

31. Perforation Record (Interval, size and number): 12,151' - 12,156' (.25", 20)

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
12151-12156	3000 gal prepad 50-50 Alco gel
	3X, 4000 gal pad, 3000 gals w/1# 20-40 interprop, 4000 gals w/2# 20-40 interprop.

33. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping — Size and type pump)	Well Status (Prod. or Shut-in)
6-29-84	Flowing	Shut-in

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas—Oil Ratio
7-25-84	24	9/64"		17	420	3	24,706

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Oil Gravity — API (Corr.)
140	Sealed					29.0

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 Gildon TITLE Regulatory Analyst DATE 8/20/84

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		T. Ojo Alamo		T. Penn. "B"	
T. Salt		T. Strawn	11680	T. Kirtland-Fruitland		T. Penn. "C"	
T. Salt		T. Atoka	11820	T. Pictured Cliffs		T. Penn. "D"	
T. Yates	3164	T. Miss	Lime 12887	T. Cliff House		T. Leadville	
T. 7 Rivers	3358	T. Devonian		T. Menefee		T. Madison	
T. Queen	4056	T. Silurian		T. Point Lookout		T. Elbert	
T. Grayburg	4390	T. Montoya		T. Mancos		T. McCracken	
T. San Andres	4770	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	7815	T. Granite		T. Todilto		T.	
T. Drinkard		T. Delaware Sand		T. Entrada		T.	
T. Abo	8794	T. Bone Springs		T. Wingate		T.	
T. Wolfcamp	9675	T. Morrow Clastics	12420	T. Chinle		T.	
T. Penn. Lime	10656	T. Rustler	1860	T. Permian		T.	
T. Cisco (Bough C)		T.		T. Penn. "A"		T.	

OIL OR GAS SANDS OR ZONES

No. 1, from 12151 to 12156 — 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	1035	1035	Redbeds	10295	11684	1389	Lime, Shale
1035	1858	823	100% shale	11684	11900	216	100% Shale
1858	2825	967	100% Redbeds	11900	12564	664	Lime, Sand, Shale
2825	3335	510	Redbeds, w.trace of anhy.	12564	12819	255	100% Shale
3335	4325	990	Anhy, Shale	12819	12978	159	Lime, Shale
4325	4676	351	Anhy, Dolo, Shale				
4676	4880	204	Dolo, Snad, SHale				
4880	4930	50	100% dolo				
4930	5005	75	Dolo, Shale				
5005	7095	2090	100% Dolo				
7095	7455	360	Dolo, Sand				
7455	8874	1419	100% Dolo				
8874	9230	356	Dolo, Shale				
9230	9575	345	100% Dolo				
9575	9877	302	Dolo, Lime, Shale				
9877	10295	418	100% Lime				