



STATE OF NEW MEXICO  
**ENERGY AND MINERALS DEPARTMENT**  
OIL CONSERVATION DIVISION

TONY 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-138

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.

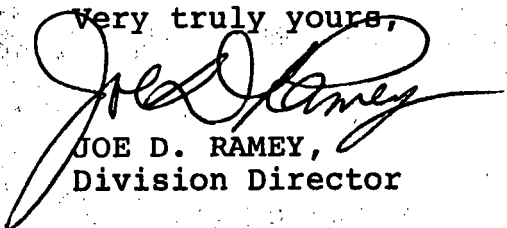
Pursuant to the authority granted me by Rule 107(d)(4), you are hereby authorized to set tubing at 12,998 feet in the following well:

Well Name and Number: Half 5 Federal Com. Well No. 1

Location: Unit K. Sec. 5, T-25S, R-34E, Lea County, NM

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/dp

cc: Oil Conservation Division - Hobbs

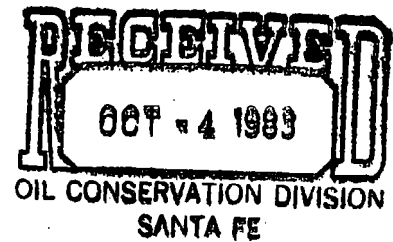
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OK



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

September 30, 1983



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

Attn: Mr. Joe D. Ramey  
Secretary Director

In Re: Half 5 Federal Com., Well No. 1  
NM 18640-A, Lea County, New Mexico  
Sec. 5, T25S, R34E

Dear Mr. Ramey:

Please find enclosed copy of a letter to Mr. Dan Nutter dated September 30, 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 Gildon*

Betty Gildon  
Regulatory Analyst

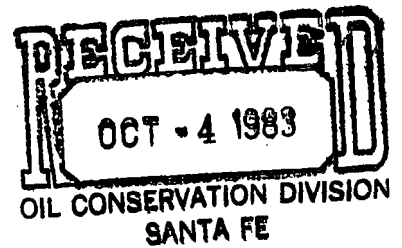
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enclosures



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

September 30, 1983



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

Attn: Mr. Dan Nutter

In Re: Half 5 Federal Com., Well No. 1  
NM 18640-A, Lea County, New Mexico  
Sec. 5, T25S, R34E

Dear Mr. Nutter:

Tubing for the abovenamed well has been set at 12,998 feet,  
and casing perforated from 15,228 to 15,242 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

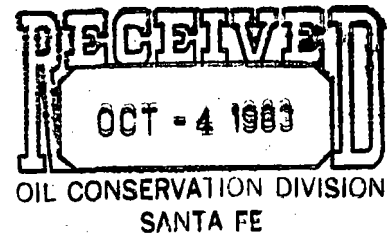
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enclosures



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

September 30, 1983



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

In Re: Half 5 Federal Com., Well No. 1  
NM 18640-A, Lea County, NM  
Sec. 5, T25S, R34E

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 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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*

(See other in-  
structions on  
reverse side)Form approved.  
Budget Bureau No. 42-R355.5.

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

5. LEASE DESIGNATION AND SERIAL NO.  
NM 18640-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Half 5 Federal Com.

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

Pitchfork Ranch Morrow  
11. SEC., T., R., M., OR BLOCK AND SURVEY  
OR AREA

Sec. 5, T25S, R34E

12. COUNTY OR  
PARISH  
Lea13. STATE  
NM

1a. TYPE OF WELL:

OIL  
WELL ☐GAS  
WELL ☒DRY ☐Other ☐

b. TYPE OF COMPLETION:

NEW  
WELL ☒WORK  
OVER ☐DEEP-  
EN ☐PLUG  
BACK ☐DIFF.  
RESVR. ☐Other ☐

2. NAME OF OPERATOR

HNG OIL COMPANY

3. ADDRESS OF OPERATOR

P. O. Box 2267, Midland, Texas 79702

OIL CONSERVATION DIVISION

4. LOCATION OF WELL (Report location clearly and in accordance with any State regulations)

At surface

1980' FSL &amp; 1980' FWL

At top prod. interval reported below

Same

At total depth

Same

14. PERMIT NO.

DATE ISSUED

7-6-83

15. DATE SPUDDED

7-23-83

16. DATE T.D. REACHED

9-10-83

17. DATE COMPL. (Ready to prod.)

9-16-83

18. ELEVATIONS (DF, REB, RT, GR, ETC.)\*

3400.7' GR

19. ELEV. CASINGHEAD

3400.7'

20. TOTAL DEPTH, MD &amp; TVD

15,350'

21. PLUG, BACK T.D., MD &amp; TVD

15,293'

22. IF MULTIPLE COMPL.,  
HOW MANY\*23. INTERVALS  
DRILLED BY

ROTARY TOOLS

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*

15,228 - 15,242 (Morrow)

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Comp. Neutron-Litho Density and Comp. Dual Laterolog and Dual Induction

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASINO SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48#	600'	17-1/2"	265 HLC & 250 C1 C	Circulated
9-5/8"	36 & 40#	5193'	12-1/4"	1900 HLC & 475 C1 C	Circulated
7"	26#	13350'	8-3/4"	800 HLW & 400 C1 H	-

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
4-1/2"	12,967'	15,350'	475 C1H	-	2-7/8"	12,998'	ISA 12,998'

30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number)

15,228' - 15,242' (.34" 8)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
15228 - 15242	None

33.\* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
9-16-83		Flowing				Shut in	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
9-17-83	24	11/64	→	0	5300	0	-
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
6000	Sealed	→				0	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Vented

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

Logs and Inclination Report

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Betty Sildon  
Betty Sildon

TITLE

Regulatory Analyst

DATE

9/30/83

\*(See Instructions and Spaces for Additional Data on Reverse Side)

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29: "Sacks Cement":** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

## 37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
	0	470	Anhy, Redbeds
Cherry Canyon	470	5540	Salt, Anhy
Cherry Canyon	5540	6990	Anhy, Lime
Cherry Canyon	6990	8050	Sand, Lime
Cherry Canyon & Bone Springs	8050	10855	Sand, Lime, Shale
Wolfcamp, Strawn, Atoka & Morrow	10855	15238	Lime, Shale, Chert, Sand
Morrow	15238	15350	Sand, Lime

## 38.

## GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Delaware	5290	
Cherry Canyon	6264	
Cherry Can Mkr	6506	
Bone Springs	9222	
Wolfcamp	12410	
Strawn	13785	
Atoka	13940	
Morrow Lime	14344	
Morrow Clastics	14624	