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

July 5, 1983

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

Attention: Betty A. Gildon, Regulatory Analyst

Administrative Order TX-109

## 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 13,013 feet in the following well:

Well Name and Number: Diamond 5 Federal Well No. 1

Location: NE/4 NW/4, Sec. 5, T-25-S, R-34-E, NMPM, Lea County

The Division reserves the right to rescind this authority in the event that waste appears to be resulting therefrom.

Wery truly yours,

JOE D. RAMEY, / Division Director

JDR/RLS/h

cc: Oil Conservation Division - Hobbs

Well File

Minerals Management Service - Roswell



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

June 16, 1983

OIL CONSERVATION DIV

SANTA FE

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: Diamond 5 Federal, Well No. 1, located 660' FNL

& 1980' FWL, Center (NE NW) Sec. 5, T25S, R34E,

Lea County, NM

Dear Mr. Ramey:

Please find enclosed copy of a letter to Mr. Dan Nutter dated <u>June 16, 1983</u>, 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) 683-487.1



June 16, 1983

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

Attn: Mr. Dan Nutter

In Re: Diamond 5 Federal, Well No. 1 located 660' FNL

& 1980' FWL, Center (NE NW) Sec. 5, T25S, R34E,

Lea County, NM.

Dear Mr. Nutter:

Tubing for the above-named well has been set at 13,013 feet, and casing perforated from 15,051 to 15,131 feet.

This office request administrative exception to Rule 107d.

Very truly yours,

HNG OIL COMPANY

Betty Gildon

Regulatory Analyst

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enclosures



P. O. BOX 2267, MIDLAND, TEXAS 79702 (915) 683-4871 June 16, 1983 JUN 27 1983

OIL CONSERVATION DIVISION SANTA FE

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

Attn: Mr. Dan Nutter:

Dear Mr. Nutter:

In Re: Diamond 5 Federal, Well No. 1

660' FNL & 1980' FWL

Center (NE NW) Sec. 5, T25S, R34E

Lea County, NM

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,

Sacrae M. Houer lig

Completion Engineer

Form 9-330					
(Rev. 5-63) UNITED STATES	SUBMIT IN DUPLI	Budget	approved. Bureau No. 42–R355.5.		
DEPARTMENT OF THE IN	TERIOR stru		TION AND SERIAL NO.		
GEOLOGICAL SURVEY	6	NM 14497			
WELL COMPLETION OR RECOMPLETION	REPORT AND LO	6. IF INDIAN, ALL	OTTEE OR TRIBE NAME		
1a. TYPE OF WELL: OIL GAS WELL DRY	Other	7. UNIT AGREEMEN	T NAME		
b. TYPE OF COMPLETION:  NEW WORK DEEP PLUG DIFF.	विद्यानिक स्थित	20			
WELL X OVER L EN L BACK L RESVR.	<u> </u>	S. FARM OR LEASE	జాలు కృష్ణ		
2. NAME OF OPERATOR HNG OIL COMPANY	97 4000	Diamond 5 F	ederal		
3. ADDRESS OF OPERATOR	JUN 27 1983				
Box 2267, Midland, Texas 79702	CONSERVATION DIV	10. FIELD AND POO	L, OR WILDCAT		
4. LOCATION OF WELL (Report location clearly and in accordance with an	y State requiremental	Pitchfork R	anch Morrow_		
At surface 660' FNL & 1980' FWL - Center (NE	NW) Sec. 5	11. SEC., T., R., M., OR AREA	OR BLOCK AND SURVEY		
At top prod. interval reported below	A	C 5 TOF	0 0045		
Same At total depth		Sec. 5, T25	S, R34E, 5		
Same 14. PERMIT NO.	3 75	12. COUNTY OR PARISH	13. STATE		
시원 연연 연연 연극	<u> </u>	Lea <sup></sup>	NM = =		
15. DATE SPUDDED 16. DATE T.D. REACHED 17. DATE COMPL. (Ready t		(DI, MBD, MI, GR, EIC.)	ELEV. CASINGHEAD		
3-26-83   $6-4-83$   $6-13-8320. TOTAL DEPTH, MD & TVD   21. PLUG, BACK T.D., MD & TVD   22. IF MUL$	3410.8 TIPLE COMPL   23. IN	GR 34	CABLE TOOLS		
15,300' 15,250'		ILLED BY X			
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (1	AD AND TVD)	4 3 5 h 2 1 2	5. WAS DIRECTIONAL - SURVEY MADE -		
15,051' - 15,131' (Morrow)	9		No Paragram		
26. TYPE ELECTRIC AND OTHER LOGS RUN	1 1 2 1		VAS WELL CORED		
Compensated Neutron-Litho Density, Composi	te of Dual Later	olog and Dual	No 📜		
28. CASING RECORD (Rep	ort all strings set in well)	/Induction	<u>)</u>		
		MENTING RECORD	AMOUNT PULLED		
		esetter Lite C & 250 Cl C Circ			
		<u>setter Lite &amp; 475</u> setter Lite & 325	Cl C Circ		
7 20 20 1333	-3/4 /30 Face	Secter Litte & 325	<u>Ст п — — — — — — — — — — — — — — — — — — </u>		
29. LINER RECORD	30.	TUBING RECORD	1 2 3 4 5 F		
SIZE TOP (MD) BOTTOM (MD) SACKS CEMENT*	SCREEN (MD) SIZE	DEPTH SET (MD)	PACKER SET (MD)		
4-1/2" 13012' 15300' 600 C1 H	<b></b> 2-7/8	<u>" 13013' MV</u>			
31. PERFORATION RECORD (Interval. size and number)	l ee ACID GHO	T ED CONTIDE CONTENTS CON	EDER DOO		
31. PERFORATION RECORD (Interval, size and number)	82. ACID, SHO	T, FRACTURE, CEMENT SQU AMOUNT AND HIND OF			
8 5 6 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	15051-15131		rflow BC Acid		
The same of the sa		\$2 \tau_{2, \( \) \( \)	E E S E S		
		## ## J #	: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
		name district			

PRODUCTION

WELL STATUS (Producing or shut-in) PRODUCTION METHOD (Flowing, gas lift, pumping-DATE FIRST PRODUCTION size and type of pump) <u>6-13</u>-83 94 Shut in Flowing PROD'N. FOR TEST PERIOD GAS-OIL BATIO DATE OF TEST CHOKE SIZE GAS-MCF. 6-14-83 24 0 3300 Automatic CALCULATED 24-HOUR RATE CASING PRESSURE FLOW. TUBING PRESS. OIL GRAVITY-API (CORR.) -BBL. MCF. WATER-Sealed 84. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY Vented 35. LIST OF ATTACHMENTS Logs'

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

SIGNED

E. **最高数据表** 

.. DATE 6/22/83

TITLE Regulatory Analyst

## 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.

11em 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.)

FORMATION		TOP	воттом	DESCRIPTION, CONTENTS, ETC.		NAME		. · · · · · · · · · · · · · · · · · · ·	·
		0	600	Redbeds, Anhy		1 1		MEAS. DEPTH :	TRUE VERT. DEPTH
	-	600	2845	100% Anhy	D	elaware		5264	
		2845	4020	Anhy, Salt		herry Can	yon	6254	
.'	- ;	4020	4370	100% Anhy		one Šprin		=9217	
		4370	5055	Anhy, Dolo, Dime		olfcamp	<b>-</b>	12330	1   1   1   1   1   1   1   1   1   1
Delaware	. ]	5055	5300	100% Anhy	11	trawn		13680	
Delaware & Cherry	Can		6410	Lime, Anhy	417	toka	<u>.</u>	13828	1 1 1 1 1 1
betamate a onerry	Ju.,	6410	7220	100% Sand	51	orrow Lim	Δ .	14210	
1	·	7220	8520			orrow Cla		14474	
	1	8520	., 8820	Shale, Lime, Sand		i.	30.03		
Bone Springs		8820	9780	100% Sand			-	:   _	1 .10.
bone spirings	ļ	9780	11045	Shale, Sand, Lime			- 1 / / / / / / / / / / / / / / / / / /		
Wolfcamp		11045	13335	Lime, Shale	11				
worrcamp		13335	13609	Lime, Shale, Sand					1 1 2 3
Character	,	13609		100% Shale 19 19 19 19 19 19 19 19 19 19 19 19 19	. 1	:			
Strawn	- , }		13825	Shale, Lime	- إ	4	, Ya Mili		
Atoka	- }	13825	14200	Lime, Chert, Shale 18 1 1 2 1 1 1					
Morrow Lime		14200	14240	Shale, Lime, Coal	:    ·	1			
	*	14240	14345	Shale, Lime, Chert	1	ļ			
Morrow Clastics		14345	14870	Lime, Sand, Chert, Shale   C & C & C	.	1			
	"	14870	15052	Sand, Shale, Lime					
\$ 1 min 1 mi		15052	15096	100% Shale.	. [[:]		' g %		
10		]5096  5145	15145:	Sand, Shale 100% Sand	-    -	j., .	£ 1		1 1 1