

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

TONEY ANAYA GOVERNOR October 24, 1986

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

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

Attention: Betty Gildon

Administrative Order TX-167

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 13,071 feet in the following well:

Well Name and Number: Diamond 5 Federal, Well No. 3

Location: Unit C, Sec. 5, T-25-S, R-34-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 STAMETS. R. L.

DVZV2005137171

Division Director

RLS/MES/h

cc: Oil Conservation Division - Hobbs

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S 79702 (915) 686-3600

October 2, 1986

0il Conservation Division P. O. Box 2088 State Land Office Bldg. Santa Fe, NM 87501

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OIL CONSERVATION DIVISION SANTA FE

Attn: Mr. R. L. Stamets Division Director

> In Re: Diamond 5 Federal, Well No. 3 660' FNL & 2230' FWL of Section 5, T25S, R34E (C) Lea County, New Mexico NM 14497

Dear Mr. Stamets:

Tubing for the above-named well has been set at 13,071 feet, and casing perforated from 13,961 to 13,969 feet.

This office requests 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) 686-3600

October 2, 1986

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

Attn: Mr. R. L. Stamets Division Director

Re: Diamond 5 Federal, Well No. 3

Dear Mr. Stamets:

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.
- 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,

Seorge M. Houer George M. Hover Petroleum Engineer III

Form 31604 (November 1983) (foreseriy 9-330)	DEPART	UNITED S			IT IN DUPLICA	TE•	Budget Expires	pproved. Bureau No. 1004-0137 s August 31, 1985
× .		EAU OF LAND	-		rever	se side)	NM 14	
WELL CO	MPLETION	OR RECOM	PLETION F	REPORT	AND LOO	G *	6. IF INDIAN,	ALLOTTEE OR TRIBE NAME
1a. TYPE OF WEL	L: - OIL WELL	GAS WELL X	DRY	Other			7. UNIT AGRE	EMENT NAME
b. TYPE OF COM				()(BFF	· · · · · · · · · · · · · · · · · · ·			
NEW WELL	WORK DEEP-		DIFF. RESVR.	Other	· · · · · · · · · · · · · · · · · · ·	<u> </u>	S. FARM OR	LEASE NAME
2. NAME OF OPERAT	OR .				· · · · · · · · · · · · · · · · · · ·		Diamond	5 Federal
HNG OIL C	OMPANY				;	, , , ,	9. WELL NO.	· · ·
3. ADDRESS OF OPEN		· <u> </u>				••••	3	·
	2267, Midl	•					1	D POOL, OR WILDCAT
4. LOCATION OF WEI At surface	L (Report location	clearly and in ac	cordance with an	y State requi	rementa)*			rk Ranch /Atoka/
660' F	NL & 2230'		5 .		;		OR AREA	R., M., OR BLOCK AND BURVET
e At top prod. int Same	erval reported belo	₩ .			• -		Sec. 5	T255, R34E
At total depth							, ,	1200, 1040
Same	•		14. PERMIT NO.	· · · · · · · · · · · · · · · · · · ·	DATE ISSUED	·	12. COUNTY C	DR 13. STATE
			· ·	•	7/28/8	6	Lea	NM
15. DATE SPUDDED		ACHED 17. DATE		prod.) 18	. ELEVATIONE (D	F, RKB,	RT, GR, ETC.)*	19. ELEV. CASINGHEAD
8/7/86	9/16/86		23/86		3412.4	' GR		3412.4
20. TOTAL DEPTH. MD		BACK T.D., MD & TY	D 22. IF MUL HOW M	TIPLE COMPL.		CRVALS	BOTARY TOO	LS CABLE TOOLS
14,100'		,029.'	2 ¹⁷			<u>→</u>]	<u>X</u>	
24. PRODUCING INTER	WAL(S), OF THIS C	OMPLETION-TOP,	BOTTOM, NAME (N	AD AND TVD)	•			25. WAS DIRECTIONAL SURVEY MADE
12061 120	(0 (1-1-1))							
13961 - 139	• •	IN					······	27. WAS WELL COBED
	ron-Litho De						1	
comp. Neur			G RECORD (Rep	ant all stains	a act in anall)			<u>No</u>
CABINO BIZE	WEIGHT, LB./FT			LE SIZE		ENTING	RECORD	AMOUNT PULLED
11-3/4"	42#	637	7' 15	5-1/4"	250 DLW 8	165	C1 C	Circulated
8-5/8"	28 & 24)-5/8"	1350 DLW			Circulated
5-1/2"	17 & 20			-7/8"	950 DLW 8			
								· · · · · · · · · · · · · · · · · · ·
29.	L	INER RECORD			30.		TUBING RECO	DRD
BIZE			ACRS CEMENT*	SCREEN (M			DEPTH SET (M	
3-1/2"	13024	14100	<u>110 C1 H</u>		2-7/8		13071	PBR 13071
31. PERFORATION REC	ORD (Interval size	and number)						
				82.	ACID, SHOT, TERVAL (MD)			T SQUEEZE, ETC.
13961 - 139	69 (.41" 16) 2 spf		13961-			gal spot	
-, tama - , istr			ر بیم د میشد. ر				50 <u> Po</u> -	
33.•				OUCTION				
DATE FIRST PRODUCT	ION PRODUC	TION METHOD (Flo	owing, gas lift, p	umping—size	and type of pun	np)		STATUS (Producing or t-in)
9/22/86		Flowing	PROD'N. FOR	011 001			<u> </u>	SI
DATE OF TEST	HOURS TESTED		TEST PERIOD	OIL-BBL.	GAS-M		WATER-BBL	·
9/23/86	24 CABING PRESSURE	12/64"	011,BBL.	48	<u>230</u>	U WATER-		01L GRAVITY-API (CORB.)
4000	sealed	24-HOUR BATE	1			** A 1 D.K*	00U.	49.0
4000		uel, vented, etc.)	I				TEST WITNES	
vented								
35. LIST OF ATTACH	MENTS				. ·		<u> </u>	
36. I hereby certify	that the foregoing	and attached info	ormation is comp	lete and cori	rect as determin	ed from	all available r	ecords
SIGNED BLOOD	1	tty Gildon			ry Analyst		DATE	10/2/86
	0'							

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

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.		то)P
••••••••••••••••••••••••••••••••••••••	0	637	Red Beds	NAME	MEAS, DEPTH	TRUE VERT. DEPTH
Delaware Laware, Cherry Ca Cherry Canyon & Bone Springs	6545 8050	2430 5500 6545 8050 9985	Anhy Salt, Anhy Anhy, Sand Lime, Sand Lime, Shale, Sand	Delaware Cherry Canyon Bone Springs Wolfcamp	5254 6244 9207 12320	
e Spgs, Wlfcp. lfcamp	9985 13010	13010 13537	Lime, Shale Shale	Strawn	13670	
cp,Strawn,Atoka	13537	13825	Lime, Shale	Atoka Morrow Lime	13818 14200	
Atoka	13825 13962	13962 14100	Lime, Shale, Chert	Morrow Clastics	14464	
ka & Morrow	13902	14100	Lime, Shale			
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TONEY ANAYA	0ctober	3, 1986	F	Post office Box 1980 IOBBS, NEW MEXICO 882
0CT - 91				(505) 393-6161
OIL CO.JEERVATIC SANTA	N DIVISION E		н. А.	
OIL CONSERVATION DIVI	STON			
P. O. BOX 2088 SANTA FE, NEW MEXICO				
RE: Proposed:			· .	
MC DHC	<u> </u>	TX <u>X</u>	 -	
NSL NSP				
SWD WFX	· ·			
Gentlemen:	polication for the			
I have evamined the a				
I have examined the a HNG Oil Company		-F 5-25-34		
I have examined the a HNG Oil Company Operator	Diamond 5 Federal #3 Lease & Well No		R	
HNG Oil Company	Diamond 5 Federal #3 Lease & Well No		R	
HNG Oil Company Operator and my recommendation	Diamond 5 Federal #3 Lease & Well No		R	· · ·
HNG Oil Company Operator	Diamond 5 Federal #3 Lease & Well No		R	· · · · ·
HNG Oil Company Operator and my recommendation	Diamond 5 Federal #3 Lease & Well No		R	
HNG Oil Company Operator and my recommendation OK Jerry Sexton	Diamond 5 Federal #3 Lease & Well No		R	
HNG Oil Company Operator and my recommendation	Diamond 5 Federal #3 Lease & Well No		R	· · · · ·
HNG Oil Company Operator and my recommendation OK Jerry Sexton	Diamond 5 Federal #3 Lease & Well No		R	· · · ·

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