



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

March 22, 1988

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

Enron Oil and Gas Co.
P.O. Box 2267
Midland, TX 79702

Attention: Betty Gildon

Administrative Order TX-186

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 10,083 feet in the following well:

Harkey 35 State Well No. 1
Unit J, Section 35, Township 24 South, Range 27 East,
NMPM, Eddy County, New Mexico

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

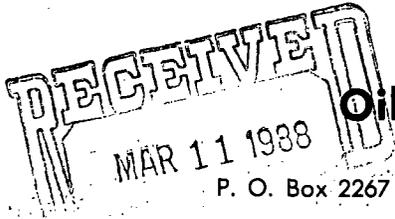
Very truly yours,

WILLIAM J. LEMAY
Director

WJL/DRC/ag

cc: Oil Conservation Division - Artesia

PV2V2005152231



ENRON
Oil & Gas Company

P. O. Box 2267 Midland, Texas 79702 (915) 686-3600

March 7, 1988

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

Attn: Mr. William J. LeMay
Division Director

In Re: Harkey 35 State #1 - V-1578
Sec. 35, T24S, R27E
Eddy County, NM

Dear Mr. LeMay:

Tubing for the above-named well has been set at 10,083 feet, and casing perforated from 10,364 to 10,380 feet.

This office requests administrative exception to Rule 107d.

Very truly yours,

ENRON OIL & GAS COMPANY

Betty Gildon
Regulatory Analyst

BG

enclosures

ENRON

Oil & Gas Company

P. O. Box 2267 Midland, Texas 79702 (915) 686-3600

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

March 7, 1988

Re: Harkey 35 State #1

Attn: Mr. William J. LeMay
Division Director

Dear Mr. LeMay:

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 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, 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 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 Enron Oil & Gas 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,



Betty Gildon
Regulatory Analyst

GMH/bg

Part of the Enron Group of Energy Companies

enclosure

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

5a. Indicate Type of Lease
State Fee

5. State Oil & Gas Lease No.
V-1578

1a. TYPE OF WELL
OIL WELL GAS WELL DRY OTHER _____

b. TYPE OF COMPLETION
NEW WELL WORK OVER DEEPEN PLUG BACK DIFF. RESVR. OTHER _____

7. Unit Agreement Name

8. Farm or Lease Name
Harkey 35 State

2. Name of Operator
Enron Oil & Gas Company

3. Address of Operator
P. O. Box 2267, Midland, Texas 79702

9. Well No.
1

10. Field and Pool, or Wildcat
Wildcat Wolfcamp

4. Location of Well
UNIT LETTER J LOCATED 2180 FEET FROM THE south LINE AND 1980 FEET FROM

12. County
Eddy

THE east LINE OF SEC. 35 TWP. 24S RGE. 27E NMPM

15. Date Spudded 10/17/87 16. Date T.D. Reached 12/6/87 17. Date Compl. (Ready to Prod.) 2/23/88 18. Elevations (DF, RKB, RT, GR, etc.) 3171.1' GR 19. Elev. Casinghead 3171.1'

20. Total Depth 12,920' 21. Plug Back T.D. 12,000' 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
10,364 - 10,380 (Wolfcamp)

25. Was Directional Survey Made
No

26. Type Electric and Other Logs Run
DLL/MSFL, BHC, RFT, CNL/LDT

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"	48#	590'	17-1/2"	450 DLW & 225 C1 C	Circulated
9-5/8"	36#	2294'	12-1/4"	1300 sacks C1 C	Circulated
7"	23#	10450'	8-1/2"	550 Pozmix & 325 C1 H	-

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
4-1/2"	10084'	12920'	475 C1 H	-

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-7/8"	10,083'	PBR 10,083'

31. Perforation Record (Interval, size and number)

12648-12652 (.37" 12)
12471-12475 (.37" 10)
12354-12358 (.37" 10)
12349 & 13250 (.37" 4)
12333-12335 (.37" 6) 10364-10380 (.34" 11)

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
12333-12652	sq. w/50 sx. C1 H
10364-10380	acidz. w/2500 gal 7-1/2% NeFe

33. PRODUCTION

Date First Production 2-23-88 Production Method (*Flowing, gas lift, pumping - Size and type pump*) Flowing Well Status (*Prod. or Shut-in*) SI

Date of Test <u>2-24-88</u>	Hours Tested <u>24</u>	Choke Size <u>12/64"</u>	Prod'n. For Test Period →	Oil - Bbl. <u>1</u>	Gas - MCF <u>416</u>	Water - Bbl. <u>0</u>	Gas-Oil Ratio <u>416</u>
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Flow Tubing Press. <u>600</u>	Casing Pressure <u>sealed</u>	Calculated 24-Hour Rate →	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.) <u>54.0</u>
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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 Betty Gildon REGULATORY ANALYST DATE 3/7/88

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division 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. Cherry Canyon 3156	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn 11376	T. Kirtland-Fruitland _____	T. Penn. "C" _____
E. Salt _____	T. Atoka 11612	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Brushy Canyon 4296	T. Morrow Lime 12103	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Lower Morrow 12760	T. Menefee _____	T. Madison _____
T. Queen _____	T. Devonian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Silurian _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Montoya _____	T. Gallup _____	T. Ignacio Qtzite _____
T. Glorieta _____	T. Simpson _____	T. Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. McKee _____	T. Dakota _____	T. _____
T. Blinebry _____	T. Ellenburger _____	T. Morrison _____	T. _____
T. Tubb _____	T. Gr. Wash _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Granite _____	T. Entrada _____	T. _____
T. Abo _____	T. Delaware Sand 2340	T. Wingate _____	T. _____
T. Wolfcamp 9127	T. Bone Springs Lime 5928	T. Chinle _____	T. _____
T. Penn. 11376	T. 2nd B.S. Sand 7482	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. Harkey Sand 8200	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____	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 <u>None</u> 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	627	627	Surface Rock	9462	9742	280	Sand, Lime
627	1754	1127	Anhy	9742	9865	123	Lime
1754	2198	444	Salt & Anhy	9865	10477	612	Lime, Shale
2198	2700	502	Lime, Anhy	10477	10813	336	Chert, Lime, Shale
2700	4365	1665	Sand	10813	10968	155	Shale, Lime
4365	5600	1235	Sand, Shale	10968	11412	444	Shale
5600	6122	522	Sand	11412	11543	131	Lime, Shale
6122	7138	1016	Lime, Shale	11543	12011	468	Chert, Lime, Shale
7138	8035	897	Lime, Shale, Sand	12011	12150	139	Lime, Shale
8035	8370	335	Lime	12150	12287	137	Lime
8370	8505	135	Lime, Shale	12287	12358	71	Chert, Lime, Shale
8505	8904	399	Lime	12358	12409	51	Lime, Sand
8904	9462	558	Lime, Shale, Sand	12409	12502	93	Shale
				12502	12920	418	Lime, Sand, Shale