



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

January 14, 1997

Enron Oil & Gas Company
P. O. Box 2267
Midland, Texas 79702
Attention: Betty Gildon

Administrative Order TX-258

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 make a tubingless completion in the following well:

Well Name and Number: Sand Tank 1 Federal Com Well No. 1 (API No. 30-015-29221)

Location: Unit H, Section 1, Township 18 South, Range 29 East, NMPM, Eddy County, New Mexico

Remarks: When well ceases to flow hydrocarbon liquids tubing will be required.

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

Sincerely,

A handwritten signature in black ink, appearing to read "William J. LeMay".

William J. LeMay
Director

WJL/RJ/kv

cc: Oil Conservation Division - Artesia

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Oil Conservation Division
RECEIVED

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ENRON
Oil & Gas Company

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

Mr. William J. LeMay, Director
New Mexico Oil Conservation Commission
2040 S. Pacheco St.
Santa Fe, New Mexico 87505-5472

January 2, 1997

Re: Sand Tank 1 Fed Com #1
Sec 1, T18S, R29E
Sand Tank Morrow Field
Eddy County, New Mexico

Dear Mr. LeMay:

Enron Oil & Gas respectfully requests your approval to complete and produce the above-referenced well from the Morrow formation (perforations 11237-11286) without the use of production tubing . The referenced well contains the following tubulars:

<u>CASING</u>	<u>GRADE</u>	<u>DEPTH</u>	<u>TOP OF CEMENT</u>
11-3/4"	H-40	662	Circulated
8-5/8"	J-55	3918	Circulated
5-1/2"	CF-95/N-80	11645	

The well was fracture treated via the 5-1/2" production casing and has been allowed to flowback through that casing to achieve faster cleanup and to minimize the risk of formation damage. Our plans are to install 2-7/8" production tubing when the well ceases to flow, which should occur within the first year or two of production.

We believe this "tubingless" completion technique is completely safe and effective for the following reasons:

- The well is in a known producing field
- No corrosive or pressure problems are know to exist
- The well is a single completion
- The 5-1/2" production string has been cemented into the base of the 8-5/8" casing
- The 5-1/2" is very high strength casing
- The stabilized after-frac flowing tubing pressures are low (less than 1,000 psig)
- The technique lowers the cost of the completion, thereby improving the economics of the project

Thank you for your consideration of this request. If you need additional information, please contact me.

Sincerely,

Betty A. Gildon

Betty A. Gildon
Regulatory Analyst

cc: NMOCD-HOBBS

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

FORM APPROVED
OMB NO. 1004-0137
Expires: February 28, 1995

6. LEASE DESIGNATION AND SERIAL NO.

LC 051102-A

8. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

9. FARM OR LEASE NAME, WELL NO.

Sand Tank 1 Federal Com. #1

9. API WELL NO.

30 015 29221

10. FIELD AND POOL OR WILDCAT

Sand Tank Morrow

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

Sec 1, T18S, R29E

12. COUNTY OR PARISH
Eddy

13. STATE
NM

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other: _____

2. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ REPAIR ☐ PLUG BACK ☐ DIFF. SERVICE ☐ Other: _____

3. NAME OF OPERATOR

Enron Oil & Gas Company

4. ADDRESS AND TELEPHONE NO.

P. O. Box 2267, Midland, Texas 79702 (915) 686-3714

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface

2155' FNL & 687' FEL

At top prod. interval reported below

At total depth Same

Same

14. PERMIT NO.

DATE ISSUED

10-7-96

15. DATE SPUDDED

10-22-96

16. DATE T.D. REACHED

11-2-96

17. DATE COMPL. (Ready to prod.)

12-4-96

18. ELEVATION (OF, RKS, AT, CR, ETC.)*

3527' GR

19. ELEV. CASINGHEAD

3527'

20. TOTAL DEPTH, MD & TVD

11645

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

11542

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

X

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

11265-11286, 11237-11239 & 11244-11249 (Morrow)

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Digital Array Sonic-GR, Array Ind.-GR, Dens-Neutron-GR

27. WAS WELL COILED

No

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

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
11-3/4 H-40	42	662	14-3/4	400 sx Prem Plus	Circulated
8-5/8 J-55	32	3918	11	1350 sx Prem Plus	Circulated
5-1/2 CF-95 & N-80	17	11645	7-7/8	1335 sx Prem Plus	TOT 3919' per T.S

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
None		

31. PERFORATION RECORD (Interval, size and number)

11265-11286 (.34" 85)
11237-11239 (.34" 9)
11244-11249 (.34" 21)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
11529-11533	GIBP # 11490 + 10' cem on top
11237-11286	None

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
12-4-96		Flowing				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BSL.	GAS—MCF.	WATER—BSL.	GAS-OIL RATIO
12-14-96	24	18/64	→	112	5200	7	46,429
FLOW, TESTING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BSL.	GAS—MCF.	WATER—BSL.	OIL CREATIVITY-API (CORR.)	
	2425	→				40.0	

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

Sold

TEST WITNESSED BY:

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

Betty Gildon

TITLE Regulatory Analyst

DATE 12/20/96

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

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	662	Redbed
	662	1680	RB, Salt Anhydrite
Grayburg	1680	2980	Anhy, Dolomite
Grbg & Bone Sp	2980	3918	Dolo
Bone Spring	3918	4492	Dolo, Lime
Bone Spring	4492	5113	Lime, Chert
Bone Spring	5113	6317	Lime
Bone Spring	6317	6750	Dolo
Bone Spring	6750	7432	Sand
Bone Spring	7432	7869	Dolo, Chert
BS & Wolfcamp	7869	8507	Dolo, Shale
Wolfcamp	8507	8700	Dolomite
Wlfcamp, Strawn	8700	10803	Lime, Shale
Strawn, Atoka	10803	11081	Lime, Sand, Shale
Atoka, Morrow Miss Chester	11081	11645	Lime, Shale

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Grayburg	2864	
Sand Andres	3139	
Bone Spring	4328	
1st BS Sand	6373	
2nd BS Sand	7116	
3rd BS Sand	8097	
Wolfcamp	8177	
Strawn	10245	
Atoka	10484	
Morrow Clastics	11007	
Lower Morrow	11173	
Mississippian Chester	11521	