

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-101
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address. Enron Oil & Gas Company P. O. Box 2267, Midland, Texas 79702		OGRID Number 7377
Property Code 4296	Property Name Warren 3	API Number 30 - 0 25 28765
		Well No. 1

7 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	3	25S	34E		660	south	1980	east	Lea

8 Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Proposed Pool 1 Pitchfork Ranch Atoka <82925>	Proposed Pool 2
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Work Type Code P	Well Type Code G	Cable/Rotary	Lease Type Code P	Ground Level Elevation 3346.4'
Multiple	Proposed Depth 14350	Formation Atoka	Contractor	Spud Date PB

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17-1/2	13-3/8	54.5	620	515	Circulated
12-1/4	9-5/8	36 & 40	5190	2475	Circulated
8-3/4	7	26	13256	1200	
Liner	5-1/2	20	14820	220	TOL: 12815
Liner	3-1/2	10.3	15418	105	TOL: 14400

Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Currently perforated in Warren Sand of Morrow 14,757' - 14,770'

See attached workover procedure to Plug Back to Atoka Proposed Perfs
14,100' to 14,107'

I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Betty Gildon

Printed name:

Betty Gildon

Title:

Regulatory Analyst

Date:

12/12/94

Phone:

915/686-3714

OIL CONSERVATION DIVISION

Approved by: ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT I SUPERVISOR

Title:

Approval Date: DEC 15 1994

Expiration Date:

Conditions of Approval:

Attached ☐

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N. MEXICO OIL CONSERVATION COMMISS
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

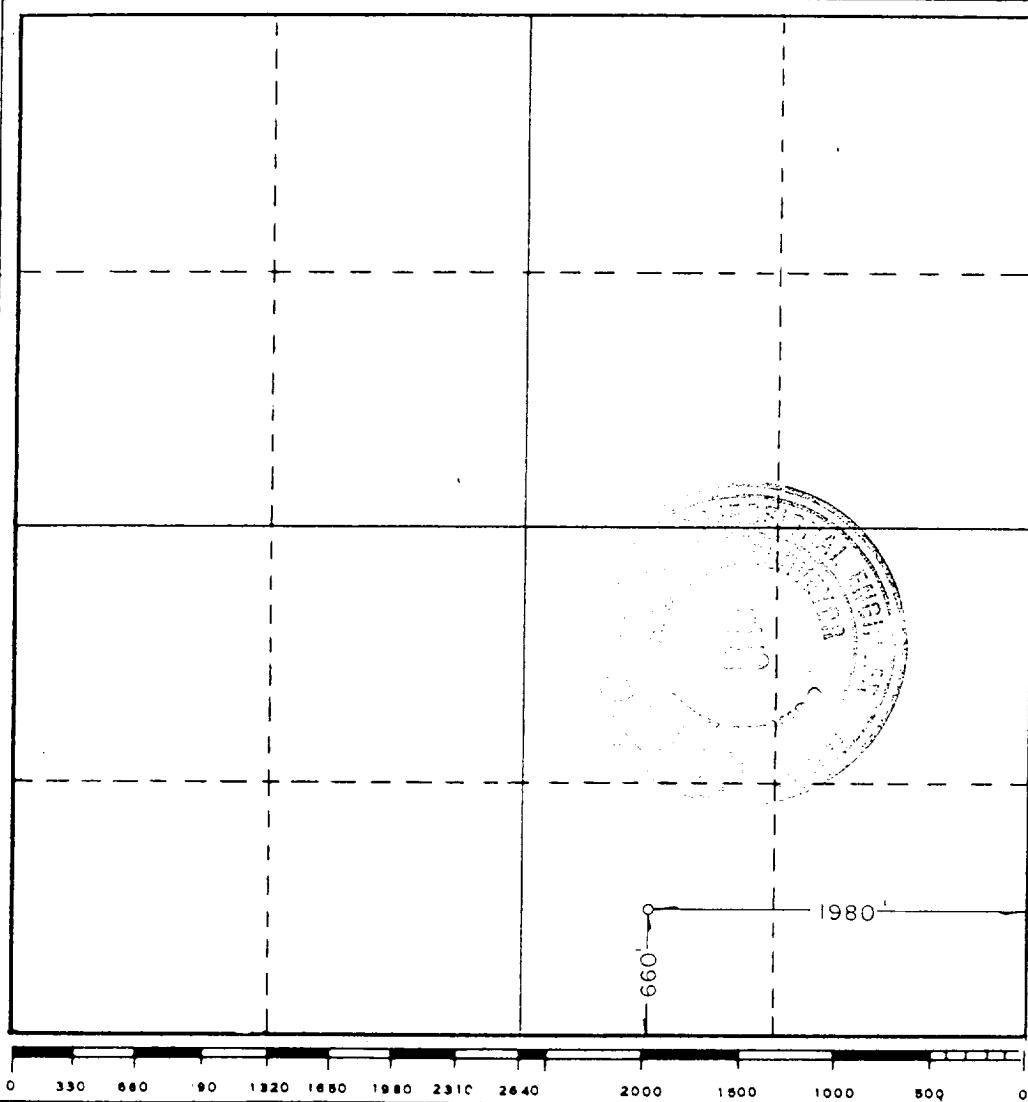
Operator Enron Oil & Gas Co. Enron Oil & Gas Co.			Lease Warren 3		Well No. 1
Unit Letter ()	Section 3	Township 25 South	Range 34 East	County Lea	
Actual Footage Location of Well: 660 feet from the South line and 1980 feet from the East line					
Ground Level Elev. 3346.4	Producing Formation Pitchfork Ranch		Pool Atoka	Dedicated Acreage: 320 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Betty Gildon

Name

Betty Gildon

Position

Regulatory Analyst

Company

Enron Oil & Gas Company

Date

12/12/94

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

June 8, 1984

Date Surveyed

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. JOHN W. WEST, 676

RONALD J. EIDSON, 3239

ENRON OIL & GAS COMPANY
Warren "3" No. 1
660' FSL & 1,980' FEL
Section 3-T25S- R34E
Lea County, New Mexico

AFE NO: 100661

AFE COST: \$81,000

CUM COST: \$0

WELL DATA

TOTAL DEPTH: 15,418' **PBTD:** 14,770' * **KB:** 3,367' (20.6' above GL)

***NOTE:** 3-1/2" liner collapse @ 14,770'; 2-1/8" perforating gun string stuck in 3-1/2" liner @ 14,520' (may have fallen to 14,770').

CASING RECORD 13-5/8", 54.5 lb./ft., J-55, ST&C casing set at 620'. Cmt. circ.
9-5/8", 36 & 40 lb./ft., K-55 ST&C casing set at 5,190'. Cmt.
circ.
7", 26 lb./ft., P-110, Seal-lock (0' - 6,937'); S-95 LT&C (6,937' -
13,250') set at 13,250'. Cmt w/1,200 sx.

LINER RECORD: 5-1/2", 20 lb./ft., S-95, Hyd FJ-P set @ 14,820'. TOL @ 12,815'.
Cmt. w/180 sx. Pumped into liner top 2 BPM @ 1,500 psi.
Squeezed liner top, tested to 2,000 psi, held OK.
3-1/2", 10.3 lb./ft., C-75, Hyd CS-CB set @ 15,418. TOL @
14,400'. Cmt. w/105 sx. Liner top leaked, attempted to squeeze
liner top. Isolation packer set in 3-1/2" tieback sleeve 10/06/84.

TUBING RECORD: 2-7/8", 7.9 lb./ft., L-80 T&C Nulock w/2-21/32" seal
assembly landed in PBR in 3-1/2" liner top @ 14,400'.
Slacked off w/22,000 lb. (08/22/89).

EXISTING PERFS: Morrow Warren sand: 14,757'-14,770'

PROSPECTIVE PERFS: Atoka sand: 14,100' to 14,107'
Anticipated BHP: ± 4,000 psig ?

PROCEDURE TO RECOMPLETE IN ATOKA SAND

*******REVISED 12/06/94*******

1. Blow well down. Load hole w/10 lb./gal brine to equalize tubing and annulus.
2. MIRU Well Service Unit. ND tree, install BOP.

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Warren "3" No. 1

Procedure to Recomplete in Atoka Sand

Page 2

3. Unseat seal assembly @14,400', should required approximately 150,000 lbs pull.
4. After seal assembly has been pulled out of PBR, pickle 2-7/8" tubing by pumping 250 gallons xylene, followed by 1,000 gallons 15% HCL acid w/2 gpt HAI-85 and 2 gpt AQR-4 down tubing. Reverse spent acid out of tubing.
5. Circulate hole w/2% KCL water w/clay stabilizers and surfactant.
6. POH w/seal assembly and 2-7/8" tubing, standing back tubing.
7. MIRU HES cased hole service, install lubricator. RIH w/5-1/2" gage ring/junk basket to top of 3-1/2" liner @ 14,400'. Set 5-1/2" 10,000 psig CIBP over liner top @ \pm 14,395'. Dump 35' cement of CIBP. New PBTD should be approximately 14,360'. **NOTE: Approval to plug back in this manner granted by Jerry Sexton w/OCD in Hobbs, New Mexico, verbally on 12/05/94.**
8. Load hole w/2% KCL water. Pressure test CIBP and cement to 2,000 psig for 15 minutes.
9. PU and RIH on electric line with the following assembly, from bottom to top, in preparation for tubing conveyed perforating (see attached HES diagram):
 - A) Time delay firing head (8,000 psig)
 - B) Vann guns positioned to perforate interval 14,100' - 14,107', 6 SPF and 60° phasing, as per Schlumberger open hole CNL-FDC log run 09/01/84.
 - C) Mechanical firing head.
 - D) 2 joints 2-7/8", 6.5 lb./ft., N-80 tubing.
 - E) Mechanical gun release mechanism.
 - F) Isolation tool.
 - G) 10' 2-7/8", 6.5 lb./ft. N-80 tubing sub.
 - H) "R" Nipple w/2.188" profile.
 - I) 10' 2-7/8", 6.5 lb./ft. N-80 tubing sub.
 - J) "R" Nipple w/2.188" profile.
 - K) 8' 2-7/8", 6.5 lb./ft. N-80 tubing sub.
 - L) 2-7/8" X 3-1/2" crossover
 - M) 5-1/2", 20 lb./ft., Otis "BWB" permanent packer (3.00" bore ID).
 - N) J latch seal unit.
10. Get packer and tubing conveyed assembly on depth with gamma ray, correlating to Schlumberger open hole CNL-FDC log run 09/01/84. Bottom of tailpipe (Item E) should be \pm 14,040', packer @ \pm 14,005'. Set packer w/guns

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Warren "3" No. 1

Procedure to Recomplete in Atoka Sand

Page 3

on depth to shoot 14,100' - 14,107'.

11. PU and RIH on tubing, hydrotesting to 8,000 psig, w/the following assembly, from bottom to top:
 - A) J-latch seal assembly.
 - B) Crossover from ABC Mod to Nulock thread.
 - C) \pm 13,950' of 2-7/8", 7.9 lb./ft., N-80 Nulock tubing.
12. Latch into packer and space out. Pressure test backside to 2,000 psig for 15 minues to ensure packer is holding. Unlatch from packer, install subs to leave recommended weight on packer (should be approx. 25,000 to 30,000 lb.). ND BOP, PU tree. Reverse circulate 1-1/2 tubing volumes of 2% KCL w/additives up tubing.
13. Pump 100 bbls 2% KCL preflush, followed by 2% KCL packer fluid, displacing w/nitrogen to achieve 2,000 psig pressure at midpoint of perforations (14,103'). Leave 500' fluid over packer. Latch into "BWB" packer, ensure packer is holding. Slack off according to instructions (approx. 25,000 to 30,000 lbs).
14. NU tree.
15. Drop bar to perforate interval 14,100' to 14,107'.
16. Unload well to frac tank. When well cleans up, place Atoka sand on sales and evaluate for acid or fracture treatment..

Hal Crabb, III

12/06/94

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Warren "3" No. 1
Existing

13⁵/₈" @ 620'

9⁵/₈" @ 5,190'

10 lb/gal packer
fluid

27¹/₈" 7.9# N-80, Nuluck
tbg strung into PBR in 3¹/₂"
liner top @ 14,400'

TOL @ 12,815'

7" @ 13,250'
26# P110, sealock (top)
26# S95, IT+L (btm)

liner isolation packer
in the sleeve of 3¹/₂" liner

TOL @ 14,400'

top of fish @ 14,520'

5¹/₂" @ 14,820'
20# S95 Hyd. FJP

Warren sand: 14,757'-770'

Sinatra sand: 14,900'

3¹/₂" liner collapsed
@ 14,770'

Morrow "C" perfs
15,233'-291'

3¹/₂" @ 15,418'
10.3# 175 CS-CR

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Warren "3" No. 1 Proposed

13 5/8" @ 620'

9 5/8" @ 5,190'

8.5 lb/gal packer
fluid (2" KCC)

2 7/8" 7.9# N-80 Nulock to
± 14,005' J-latched into
"BWB" packer, 30,000 lb slack
off

TOL @ 12,815'

7" @ 13,250'
26# P110, sealock (top)
26# S95, LT+L (btm)

0.5 5-1/2" "BWB"
packer w/ J-latch. SA
5" R nipples in TP

TOL @ 14,400'

Atoka sand: 14,100'-14,107'

CIBP @ 13,995' w/ 35' cmt

5 1/2" @ 14,820'
20# S95 Hyd. FTP

Warren sand: 14,757'-770'

Sinatra sand: 14,900'

3 1/2" liner collapsed
@ 14,770'

Morrow "C" perfs
15,233'-291'

3 1/2" @ 15,418'
10.3# C75. CS-CB

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