

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

12-23-96

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
DRILL ☒ DEEPEN ☐

b. TYPE OF WELL
OIL WELL ☒ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. NAME OF OPERATOR
Conoco, Inc. (915) 686-6548

3. ADDRESS AND TELEPHONE NO.
10 Desta Dr. Ste 100W, Midland, TX 79705

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface 580' FSL & 660' FWL
At proposed prod. zone 580' FSL & 660' FWL Unit M

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED TO THIS WELL 40

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH 4750'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3530' GR

22. APPROX. DATE WORK WILL START 2/1/97

5. LEASE DESIGNATION AND SERIAL NO.
LC 031695B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME WELL NO.
Warren Unit No. 137

9. API WELL NO.
30-25-

10. FIELD AND POOL, OR WILDCAT
Warren Grayburg-SA

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 27, T-20S, R-38E

12. COUNTY OR PARISH Lea

13. STATE NM

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" K-55	24#	420'	350 circ.
7-7/8"	5-1/2" K-55	15.5#	4750'	960 circ.

WITNESSES

It is proposed to drill this wellbore as a vertical Grayburg-SA producer according to the drilling plan outlined in the following attachments:

- Well Location & Acreage Dedication Plat (C-102) - Unorthodox location filed with NMOCB
 - Proposed Well Plan Outline
 - Cementing Program
 - Surface Use Plan
 - EXHIBIT A - Vicinity Map
 - EXHIBIT B - Topo & Lease Road Map
 - EXHIBIT C - Pipeline plat
 - EXHIBIT D - Standard Rig Layout
 - BOP and Choke Manifold Specifications (2 diagrams)
 - H2S Drilling Operations Plan & Diagram
 - Surface Landowner settlement letter
- An archeological survey will be ordered for this location and forwarded when completed. The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described above and as covered by BLM Bond File No. ES-0085.

OPER. OGAID NO. 5073
PROPERTY NO. 3122
POOL CODE 96343
EFF. DATE 3/3/97
API NO. 30-025-33856

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED [Signature] TITLE Sr. Conservation Coordinator DATE 12/17/96

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY (ORIG. SGD.) ARMANDO A. LOPEZ TITLE Acting ADM, MINERALS DATE 2-20-97

*See Instructions 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.

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-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 3D-025-33856		*Pool Code 96343	*Pool Name Warren Grayburg-San Andres
*Property Code 003122	*Property Name WARREN UNIT		*Well Number 137
*OGRID No. 005073	*Operator Name CONOCO INC.		*Elevation 3530'

¹⁰ Surface Location

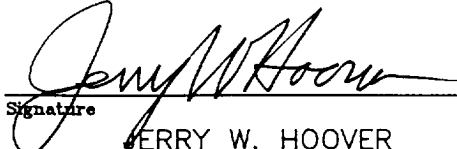
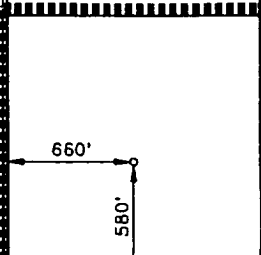
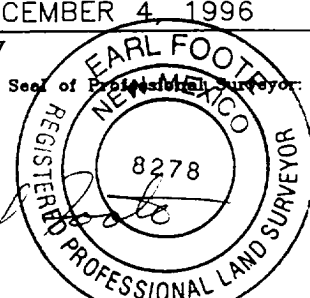
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	27	20-S	38-E		580	SOUTH	660	WEST	LEA

¹¹ 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

¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

¹⁶				¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>  Signature JERRY W. HOOVER Printed Name SR. CONSERVATION COORDINATOR Title Date
				¹⁸ SURVEYOR CERTIFICATION <i>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 best of my belief.</i> DECEMBER 4, 1996 Date of Survey Signature and Seal of Professional Surveyor:  Certificate Number 8278

PROPOSED WELL PLAN OUTLINE

WELL NAME
LOCATION

WARREN UNIT NO. 137
580' FSL & 660' FWL, SEC.27, T-20S, R-38E, LEA CO.

TVD IN 1000'	MD	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE	CASING SIZE	DEPTH	FRAC GRAD	FORMATION PRESSURE GRADIENT	MUD WT	MUD TYPE	DAY
0			POSSIBLE HOLE ENLARGEMENT & SLOUGHING		12-1/4"					8.4	FRESH	
1		RUSTLER 1430'			7-7/8"	8-5/8" 24#, K-55, ST&C 350 sxs circ	420"					
2										10	BRINE STARCH	3
		BASE SALT 2546'		Mudloggers on @ 2600'					LESS THAN 8.3			
		YATES 2705'										
3		7-RIVERS 2966'										5
		QUEEN 3520'										
		PENROSE 3662'		H2S MONITOR ON @ 3500'								8
		GRAYBURG 3854'										
4		SAN ANDRES 4074'										
		TD = 4750'		GR-CAL-DLL-MLL and FDC-CNL-PE 2700'-TD Pull GR-CAL-CNL to surface.		5 1/2" 15.5#, K-55, LT&C 960 sxs, attempt to circulate	4750		BHP = 1400 psi			14
5												
6												
7												
8												

DATE 11 Nov., 1996

APPROVED Joe Miller
RESERVOIR ENGINEER

APPROVED Roger Williamson
DRILLING ENGINEER

Well Name : Warren Unit #137

Location : 660' FSL & 660' FWL Sec 27, T-20S, R-38E, Lea County, New Mexico

Casing Program :

Surface 8 5/8" casing in 12 1/4" Hole at 420 ft.

Production 5 1/2" casing in 7 7/8" Hole at 4750 ft.

Cementing Program :

Surface

Lead 250 sacks Class C Mixed at 13.7 ppg
Additives 4% Gel + 2% A7P + 0.2% Sodium Metasilicate

Tail 100 sacks Class C Mixed at 14.8 ppg
Additives 2% A-7P

Production

Lead 460 sacks Class C Mixed at 12 ppg
Additives 16% Gel + 3% Salt + 0.3% CD-32 + 0.3% SMS

Tail 500 sacks Class C Mixed at 14.8 ppg
Additives 1.1% FL-62 + 2% BA-90 + 3% Salt + 0.3% CD-32
+ 0.2% SMS

Free Water 0 % **Fluid Loss** 80 cc/30 min.

BOP SPECIFICATIONS

