

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. LC 031695B
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR Conoco, Inc. (915) 686-6548		7. UNIT AGREEMENT NAME
3. ADDRESS AND TELEPHONE NO. 10 Desta Dr. Ste 100W, Midland, TX 79705		8. FARM OR LEASE NAME, WELL NO. Warren Unit No. 135
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 610' FNL & 660' FEL At proposed prod. zone 610' FNL & 660' FEL <b>Unit A</b>		9. API WELL NO. 30-25-
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*		10. FIELD AND POOL, OR WILDCAT Warren Grayburg-SA
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any)		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 33, T-20S, R-38E
16. NO. OF ACRES IN LEASE		12. COUNTY OR PARISH Lea
17. NO. OF ACRES ASSIGNED TO THIS WELL 40		13. STATE NM
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 4750'		20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3522' GR		22. APPROX. DATE WORK WILL START* 2/1/97

23. 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. <b>WITNESS</b>
7-7/8"	5-1/2" K-55	15.5#	4750'	960 circ. <b>WITNESS</b>

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

- |   |                             |
|---|-----------------------------|
| 1. Well Location & Acreage Dedication Plat (C-102) - Unorthodox location filed with NMOCD | OPER. OGRID NO. <u>5073</u> |
| 2. Proposed Well Plan Outline   | PROPERTY NO. <u>3122</u>    |
| 3. Cementing Program  | POOL CODE <u>96343</u>      |
| 4. Surface Use Plan   | EFF DATE <u>3/3/97</u>      |
| 5. EXHIBIT A - Vicinity Map   | API NO. <u>30-025-33853</u> |
| 6. EXHIBIT B - Topo & Lease Road Map  |                             |
| 7. EXHIBIT C.-C.3 - Pipeline plats  |                             |
| 8. EXHIBIT D - Standard Rig Layout  |                             |
| 9. BOP and Choke Manifold Specifications (2 diagrams)                                     |                             |
| 10. H2S Drilling Operations Plan & Diagram  |                             |
| 11. 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.

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. [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-025-33855		Pool Code 96343	Pool Name Warren Grayburg - San Andres
Property Code 003122	Property Name WARREN UNIT		Well Number 135
OGRID No. 005073	Operator Name CONOCO INC.		Elevation 3522'

<sup>10</sup> Surface Location

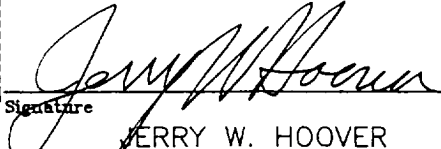
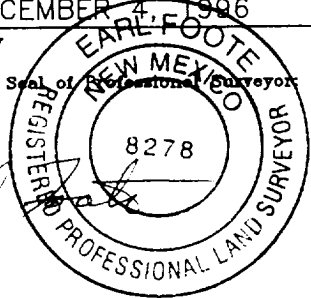
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	33	20-S	38-E		610	NORTH	660	EAST	LEA

<sup>11</sup> 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

Dedicated Acres 40	Joint or Infill	Consolidation Code	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				<div>610'</div> <div>660'</div>	<div><sup>17</sup> OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.   Signature JERRY W. HOOVER Printed Name SR. CONSERVATION COORDINATOR Title  Date</div>
					<div><sup>18</sup> SURVEYOR CERTIFICATION 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.  DECEMBER 4, 1996 Date of Survey Signature and Seal of Professional Surveyor  Certificate Number 8278</div>

# PROPOSED WELL PLAN OUTLINE

WELL NAME  
LOCATION

**WARREN UNIT NO. 135**  
**610' FNL & 660' FEL, SEC.33, 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'							LESS THAN 8.3			
		YATES 2708'										
3		7-RIVERS 2962'										5
		QUEEN 3524'										
		PENROSE 3666'		H2S MONITOR ON @ 3500'								8
		GRAYBURG 3853'		No Mudlog								
4		SAN ANDRES 4070'										
		TD = 4750'		No openhole logs		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 #135

**Location** : 660' FNL & 660' FEL Sec 33, 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

