

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"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Conoco, Inc.		7. UNIT AGREEMENT NAME	
(915) 686-6548		8. FARM OR LEASE NAME, WELL NO. Warren Unit No. 129	
3. ADDRESS AND TELEPHONE NO. 10 Desta Dr. Ste 100W, Midland, Tx 79705		9. API WELL NO. 30-025-33472	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 560' FSL & 1850' FEL		10. FIELD AND POOL, OR WILDCAT Warren San Andres	
At proposed prod. zone 560' FSL & 1850' FEL		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 28, T-20S, R-38E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*		12. COUNTY OR PARISH Lea	13. STATE NM
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 4650'	20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3525		22. APPROX. DATE WORK WILL START* 6/15/96	
23. <b>PROPOSED CASING AND CEMENTING PROGRAM</b>			

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	420'	350 circulated
7-7/8"	5-1/2"	15.5#	4650'	935 circulated

It is proposed to drill a vertical wellbore through the San Andres according to the plan submitted in the following attachments.

- Well Location and Acreage Dedication Plat (C-102)
- Proposed Well Plan Outline.
- Surface Use Plan
- EXHIBIT A: Vicinity and Lease Road Maps
- EXHIBIT B: 7.5" Quadrangle Topo Map.
- EXHIBIT C: Power line plat
- EXHIBIT D: Trailer-mounted rig payout
- BOP and Choke Manifold Specifications
- H2S Drilling Operations Plan
- Letter verifying negotiations with surface land owner.
- An archeologic survey has been ordered and will be filed as soon as completed.

OPER. OGRID NO. 5273  
PROPERTY NO. 3122  
POOL CODE 74343  
EFF. DATE 6/15/96  
API NO. 30-025-33472

Attached

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 James Hoover TITLE Sr. Conservation Coordinator DATE 4/29/96

(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. SCD.) RICHARD L. MANIUS TITLE Area Manager DATE 5/1/96

\*See Instructions On Reverse Side

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 30-025-35172		*Pool Code 96343	*Pool Name Warren San Andres
*Property Code 003122	*Property Name WARREN UNIT		*Well Number 129
*OGRID No. 005073	*Operator Name CONOCO, INC.		*Elevation 3523'

<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
0	28	20-S	38-E		560	SOUTH	1850	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

<div data-bbox="64 1053 1071 2085" data-label="Diagram"> </div>	<p><sup>17</sup> OPERATOR CERTIFICATION</p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i></p> <p><i>Jerry W. Hoover</i> Signature JERRY W. HOOVER Printed Name SR. CONSERVATION COORDINATOR Title 4/26/96 Date</p>
	<p><sup>18</sup> SURVEYOR CERTIFICATION</p> <p><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></p> <p>DECEMBER 8, 1995 Date of Survey</p> <p><i>Earl Foote</i> Signature and Seal of Registered Professional Land Surveyor</p> <p>8278 Certificate Number</p>

# PROPOSED WELL PLAN OUTLINE

WELL NAME  
LOCATION

**WARREN UNIT NO. 129**  
**560' FSL & 1850' FEL, SEC. 28, 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	
						8-5/8" 24# K-55, ST&C 350 sxs circ	420"					
1		RUSTLER 1430'			7-7/8"					10	BRINE STARCH	3
2												
		BASE SALT 2546'							LESS THAN 8.3			
		YATES 2681'										
3		7-RIVERS 2918'										5
		QUEEN 3501'										
		PENROSE 3648'										8
		GRAYBURG 3836'										
4		SAN ANDRES 4053'										
		TD = 4650'		GR-CAL-DDL-MSFL from 2500' - TD GR-CAL-FDC-CNL-PE from 2500' - TD RFT's, Numar? bring GR-CAL to SURFACE ON ONE SUITE		5 1/2" 15 5#, K-55, LT&C 935 sxs, attempt to circulate	4650		BHP = 1400 psi			14
5												
6												
7												
8												

DATE 23 April, 1996

APPROVED Billy Goodwin  
DRILLING ENGINEER

**Well Name** : Warren Unit #129

**Location** : 560' FSL & 1850' FEL Sec 28, 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 4650 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** 455 sacks Class C Mixed at 12 ppg  
**Additives** 16% Gel + 3% Salt + 0.3% CD-32 + 0.3% SMS

**Tail** 480 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

