

Submit to Appropriate District Office  
 State Lease - 6 copies  
 Fee Lease - 5 copies

State of New Mexico  
 Energy, Minerals and Natural Resources Department

Form C-101  
 Revised 1-1-89

**OIL CONSERVATION DIVISION**  
 P.O. Box 2088  
 Santa Fe, New Mexico 87504-2088

**DISTRICT I**  
 P.O. Box 1980, Hobbs, NM 88240

**DISTRICT II**  
 P.O. Drawer DD, Artesia, NM 88210

**DISTRICT III**  
 1000 Rio Brazos Rd., Aztec, NM 87410

API NO. (assigned by OCD on New Wells)  
30-025-31748

5. Indicate Type of Lease  
 STATE  FEE

6. State Oil & Gas Lease No.

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. Type of Work:  
 DRILL  RE-ENTER  DEEPEN  PLUG BACK

b. Type of Well:  
 OIL WELL  GAS WELL  OTHER

SINGLE ZONE  MULTIPLE ZONE

2. Name of Operator  
 Conoco Inc.

3. Address of Operator  
 10 Desta Drive, Ste. 100W, Midland, Tx 79705

4. Well Location  
 Unit Letter I : 1900 Feet From The South Line and 660 Feet From The East Line  
 Section 8 Township 21S Range 33E NMPM Lea County

7. Lease Name or Unit Agreement Name  
 Comanche State (8)

8. Well No.  
 3

9. Pool name or Wildcat  
 Undesignated Delaware

10. Proposed Depth  
 8950

11. Formation  
 Delaware

12. Rotary or C.T.  
 Rotary

13. Elevations (Show whether DF, RT, GR, etc.)  
 GL 3857.9

14. Kind & Status Plug. Bond

15. Drilling Contractor

16. Approx. Date Work will start

17. **PROPOSED CASING AND CEMENT PROGRAM**

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17 1/2	15 3/8	81	500	550 sx	circ
11	8 5/8	32	5550	1185 sx	circ
7 7/8	5 1/2	17	8950	625 sx	5000

This well is to be drilled as a Delaware oil producer. The following are attached:

1. Well Location and Acreage Dedication Plat
2. Proposed Well Plan Outline
3. Cementing Program Outline
4. BOP Specifications

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

SIGNATURE Jerry W. Hoover TITLE Sr. Conservation Coordinator DATE 10/2/92  
 TYPE OR PRINT NAME Jerry W. Hoover (915) 686-6548 TELEPHONE NO.

(This space for State Use) ORIGINAL SIGNED BY JERRY SEXTON  
 DISTRICT I SUPERVISOR

OCT 29 '92

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

Permit Expires 6 Months From Approval  
 Date Unless Drilling Underway.

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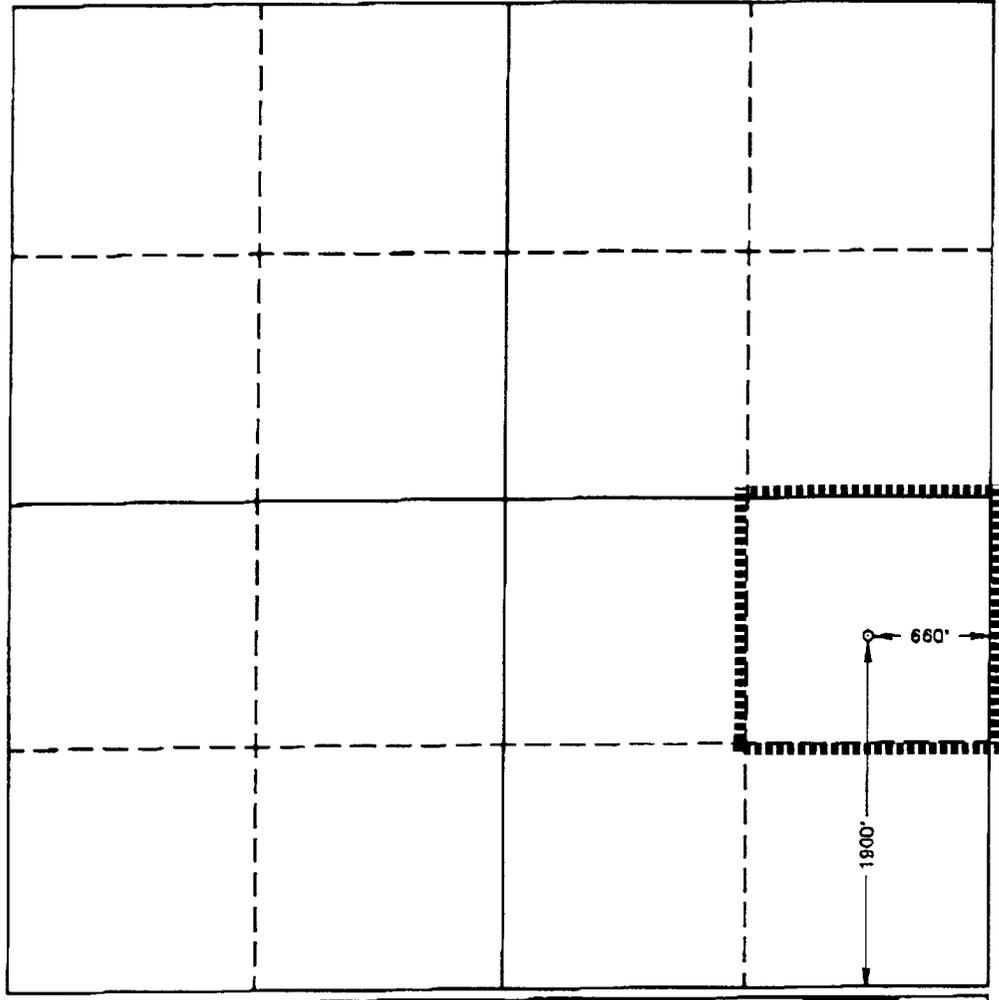
**WELL LOCATION AND ACREAGE DEDICATION PLAT**

All Distances must be from the outer boundaries of the section

Operator <b>CONOCO INC.</b>			Lease <b>COMANCHE STATE 8</b>		Well No. <b>3</b>
Unit Letter <b>I</b>	Section <b>8</b>	Township <b>21 SOUTH</b>	Range <b>33 EAST</b>	County <b>NMPM LEA</b>	
Actual Footage Location of Well: <b>1900</b> feet from the <b>SOUTH</b> line and <b>660</b> feet from the <b>EAST</b> line					
Ground Level Elev. <b>3857.9'</b>	Producing Formation <b>Delaware</b>		Pool <b>Undesignated Delaware</b>	Dedicated Acreage: <b>40 Acres</b>	

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
  - If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
  - If more than one lease of different ownership is dedicated to the well, have the interest 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 of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)  
 No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



**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: Jerry W. Hoover

Position: Sr. Conservation Coordinator

Company: Conoco Inc.

Date: October 2, 1992

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**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 the best of my knowledge and belief.

Date Surveyed: SEPTEMBER 26, 1992

Signature & Seal of Professional Surveyor: *Jerry W. Hoover*

Certificate No. JOHN W. WEST, 578  
 RONALD J. EIDSON, 3259  
 GARY I. JONES, 7977

92-11-1429

# PROPOSED WELL PLAN OUTLINE

WELL NAME **COMANCHE STATE 8 NO. 3**  
 LOCATION **SECTION 8, T-21S, R-33E**

TVD IN 1000'	MD	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE	CASING		FRAC GRAD	FORMATION PRESSURE GRADIENT	MUD WEIGHT & TYPE	DAYS
						SIZE	DEPTH				
0					17-1/2"						
			Red Bed Problems				13-3/8", 61# @ 500'			8.4 Native Mud	
1											
2		Top Rustler	Severe Salt Water Flow Possible H2S possible w/ waterflow		11"					10# Brine	
3											
4		Bottom of Salt Top Yates									
5			Lost Circulation into Captain Reef Possible if Reef development is good								
6		Top Delaware	Cl required (120,000 ppm) due to swelling clays				8-5/8", 32# @ 5550'				12 & 13
7											
8		Top Brushy Canyon			7-7/8"						
9		Top Bonespring Proposed TD		Logging: GR/ CNL-LDT GR/ DLL-MSFL GR/ BHC SONIC SIDEWALL CORES DIPMETER			5-1/2", 17# LT&C W/ 625 SX			Cut Brine	19 20 & 21
10											
11											
12											
13											
14											
15											
16											

DATE \_\_\_\_\_

WELL NAME: Comanche State 8 No.3

LOCATION : 1900' FSL & 660' FEL, Sec. 8, T-21S, R-33E

Casing Program

Surface 13 3/8 inch in 17 1/2 hole at 500 ft.  
Inter 8 5/8 inch in 11 hole at 5550 ft.  
Prod 5 1/2 inch in 7 7/8 hole at 8950 ft.

Cementing Program

Surface

Lead 250 sxs Class C Mixed at 13.3 ppg  
Additives 6% Gel. 2% A-7 & 1/4 pps Cello Flake  
Tail 200 sxs Class C Mixed at 14.8 ppg  
Additives 2% A-7 & 1/4 pps Cello Flake

Intermediate (first stage)

Lead 240 sxs Class C lite Mixed at 12.6 ppg  
Additives 0.2% Sodium Metasilicate & 5 pps Gilsonite  
Tail 200 sxs Class C Mixed at 14.5 ppg  
Additives 5 pps Gilsonite  
Percent free water 0 Water loss 500 cc

(second stage)

Lead 985 sxs Class C lite Mixed at 12.75 ppg  
Additives 0.2% Sodium Metasilicate + 5 pps Gilsonite +  
Tail 200 sxs Class C Mixed at 14.5 ppg 10% salt  
Additives 5 pps Gilsonite + 190 CaCl  
Percent free water 0 Water loss 500 cc

Production (first stage)

Lead 325 sxs Class C lite Mixed at 12.6 ppg  
Additives 0.2% Sodium Metasilicate + 5 pps Gilsonite  
Tail 300 sxs Class H Mixed at 15.6 ppg  
Additives 0.8% FL-62 + 0.3% CD-32 + 0.2% Sodium Metasilicat  
Percent free water 0 Water loss 250 cc

(second stage)

Lead \_\_\_\_\_ sxs Class \_\_\_\_\_ Mixed at \_\_\_\_\_ ppg  
Additives \_\_\_\_\_  
Tail \_\_\_\_\_ sxs Class \_\_\_\_\_ Mixed at \_\_\_\_\_ ppg  
Additives \_\_\_\_\_  
Percent free water \_\_\_\_\_ Water loss \_\_\_\_\_ cc

# BOP SPECIFICATIONS

