

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

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

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

API NO. (assigned by OCD on New Wells)

30-025-31766

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 ☐

7. Lease Name or Unit Agreement Name

Comanche State (8)

2. Name of Operator

Conoco Inc.

8. Well No.

4

3. Address of Operator

10 Desta Drive, Ste. 100W, Midland, Tx 79705

9. Pool name or Wildcat

Hat Mesa Morrow

4. Well Location

Unit Letter G : 1980 Feet From The North Line and 1980 Feet From The East Line

Section 8

Township 21S

Range 33E

NMPM

Lea

County

10. Proposed Depth

14550

11. Formation

Morrow

12. Rotary or C.T.

Rotary

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

GR 3836.7

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       | 13 3/8         | 61              | 500           | 525             | circ     |
| 11           | 8 5/8          | 32              | 5550          | 1210            | circ     |
| 7 7/8        | 5 1/2          | 17              | 14550         | 1300            | 5000     |

This well is to be drilled as a Morrow 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

10/22/92

TYPE OR PRINT NAME

Jerry W. Hoover

(915) 686-6548

TELEPHONE NO.

(This space for State Use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Permit Expires 6 Months From Approval  
Date Unless Drilling Underway.

Submit to Appropriate  
District Office  
State Lease - 4 copies  
Fee Lease - 3 copies

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
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

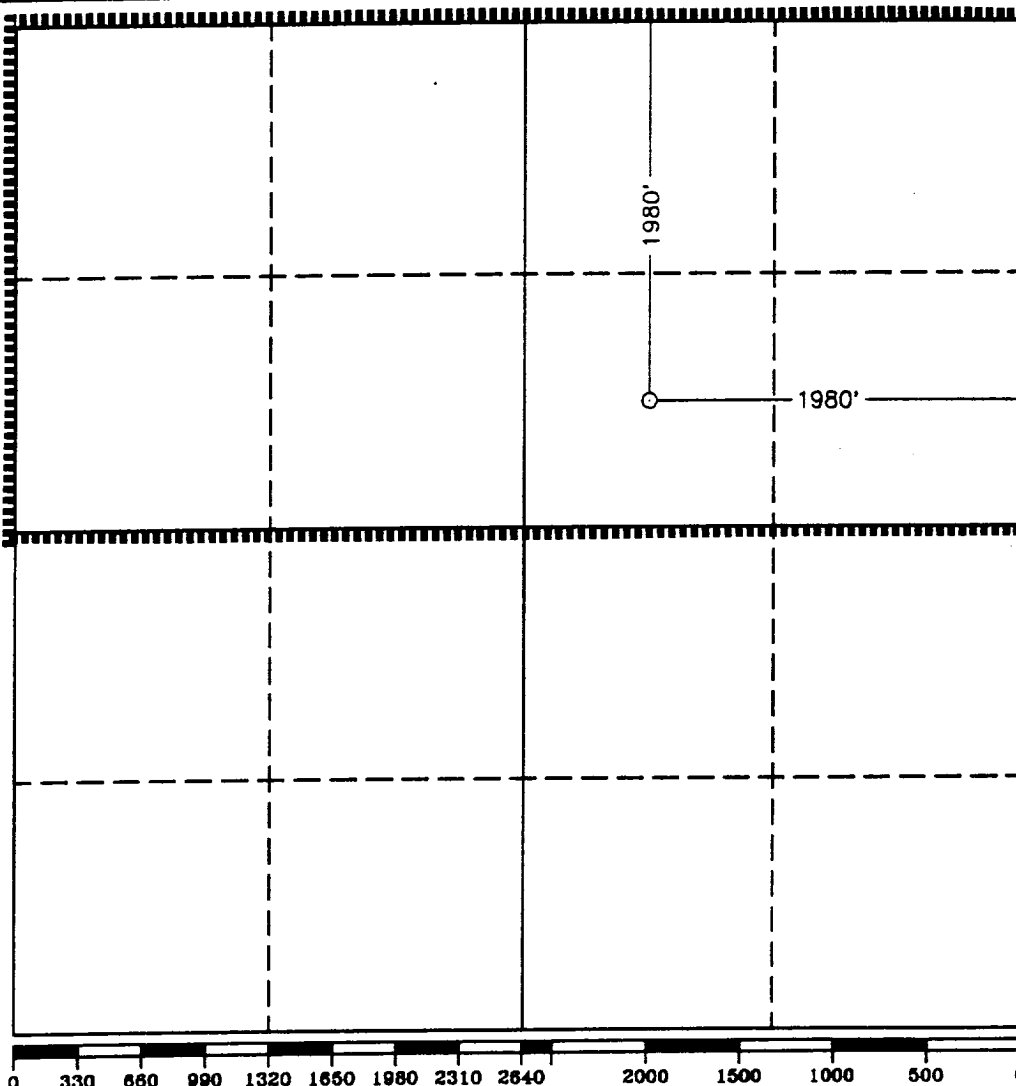
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

|  |                               |                      |                             |               |                                 |
|--|-------------------------------|----------------------|-----------------------------|---------------|---------------------------------|
| Operator<br>CONOCO INC.  |                               |                      | Lease<br>COMANCHE STATE (8) |               | Well No.<br>4                   |
| Unit Letter<br>G   | Section<br>8                  | Township<br>21 SOUTH | Range<br>33 EAST<br>NMPM    | County<br>LEA |                                 |
| Actual Footage Location of Well:<br>1980 feet from the NORTH line and 1980 feet from the EAST line |                               |                      |                             |               |                                 |
| Ground Level Elev.<br>3836.7   | Producing Formation<br>Morrow |                      | Pool<br>Hat Mesa Morrow     |               | Dedicated Acreage:<br>320 Acres |

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 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 the information contained herein is true and complete to the best of my knowledge and belief.

*[Signature]*

Signature  
Jerry W. Hoover

Printed Name  
Sr. Conservation Coord.

Position  
Conoco Inc.

Company

10-22-92

Date

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  
OCTOBER 7, 1992

Signature & Seal of  
Professional Surveyor

*[Signature]*  
Certificate No. JOHN W. WEST, 676  
RONALD J. EDSON, 3238  
BARRY L. JONES, 7977  
92-111-1508

# PROPOSED WELL PLAN OUTLINE

WELL NAME **COMANCHE STATE 8 NO. 4**  
 LOCATION **SECTION 8, T-21S, R-33E**

| TVD<br>IN<br>1000' | MD | FORMATION<br>TOPS &<br>TYPE           | DRILLING<br>PROBLEMS   | TYPE OF<br>FORMATION<br>EVALUATION   | HOLE<br>SIZE | CASING<br>SIZE DEPTH            | FRAC<br>GRAD | FORMATION<br>PRESSURE<br>GRADIENT | MUD<br>WEIGHT &<br>TYPE                               | DAYS    |
|--------------------|----|---------------------------------------|--|--|--------------|---------------------------------|--------------|-----------------------------------|---|---------|
| 0                  |    |                                       |  |  | 17-1/2"      | 13-3/8", 61# @ 500'             |              |                                   | 8.4 Native Mud  |         |
| 1                  |    |                                       | Red Bed Problems   |  |              | W/ 525 SX                       |              |                                   |   |         |
| 2                  |    | Top Rustler                           | Severe Salt Water Flow Possible<br>H2S possible w/ waterflow               |  | 11"          |                                 |              |                                   | 10# Brine   |         |
| 3                  |    |                                       |  |  |              |                                 |              |                                   |   |         |
| 4                  |    | Bottom of Salt<br>Top Yates           |  |  |              |                                 |              |                                   |   |         |
| 5                  |    |                                       | Lost Circulation into Captain Reef<br>Possible if Reef development is good |  |              |                                 |              |                                   |   |         |
| 6                  |    | Top Delaware                          | Cl required (120,000 ppm) due to<br>swelling clays                         |  |              | 8-5/8", 32# @ 5550'             |              |                                   |   | 12 & 13 |
| 7                  |    | Top Brushy Canyon                     |  |  | 7-7/8"       | W/ 1210 SX                      |              |                                   | Cut Brine   |         |
| 8                  |    |                                       |  | Logging:<br>GR/ CNL-LDT<br>GR/ DLL-MSFL                                    |              |                                 |              |                                   |   | 19      |
| 9                  |    | Top Bonespring                        |  |  |              |                                 |              |                                   |   | 20 & 21 |
| 10                 |    |                                       |  |  |              |                                 |              |                                   |   |         |
| 11                 |    |                                       |  |  |              |                                 |              |                                   |   |         |
| 12                 |    | Top Wolfcamp                          |  |  |              |                                 |              |                                   |   |         |
| 13                 |    | Top Strawn<br>Top Atoka<br>Top Morrow |  | Logging:<br>GR/ CNL-LDT<br>GR/ DLL-MSFL<br>GR/ BHC SONIC<br>SIDEWALL CORES |              |                                 |              |                                   | Polymer for:<br>MW 10ppg<br>Vis 34<br>FL <10<br>FL <5 |         |
| 14                 |    | Proposed TD 14550                     |  |  |              | 5-1/2", 17#, LT&C<br>W/ 1300 SX |              |                                   |   | 50      |
| 15                 |    |                                       |  |  |              |                                 |              |                                   |   |         |
| 16                 |    |                                       |  |  |              |                                 |              |                                   |   |         |

DATE \_\_\_\_\_

WELL NAME: Comanche State 8 No. 4

LOCATION: 1980' FNL & 1980' FEL, Sec. 8, T-21S, R-33E, Lea County, NM

### 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 14550 ft.

### Cementing Program

#### Surface

Lead 525 sxs Class C Mixed at 14.8 ppg  
Additives 2% A-7 & 1/2 pps Cello Flake  
Tail        sxs Class        Mixed at        ppg  
Additives       

#### Intermediate (first stage)

Lead 180 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 0.2% Sodium Metasilicate  
Percent free water 0 Water loss 500 cc

#### (second stage)

Lead 630 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 pps Salt  
Additives 5 pps Gilsonite + 10 pps Salt  
Percent free water 0 Water loss 500 cc

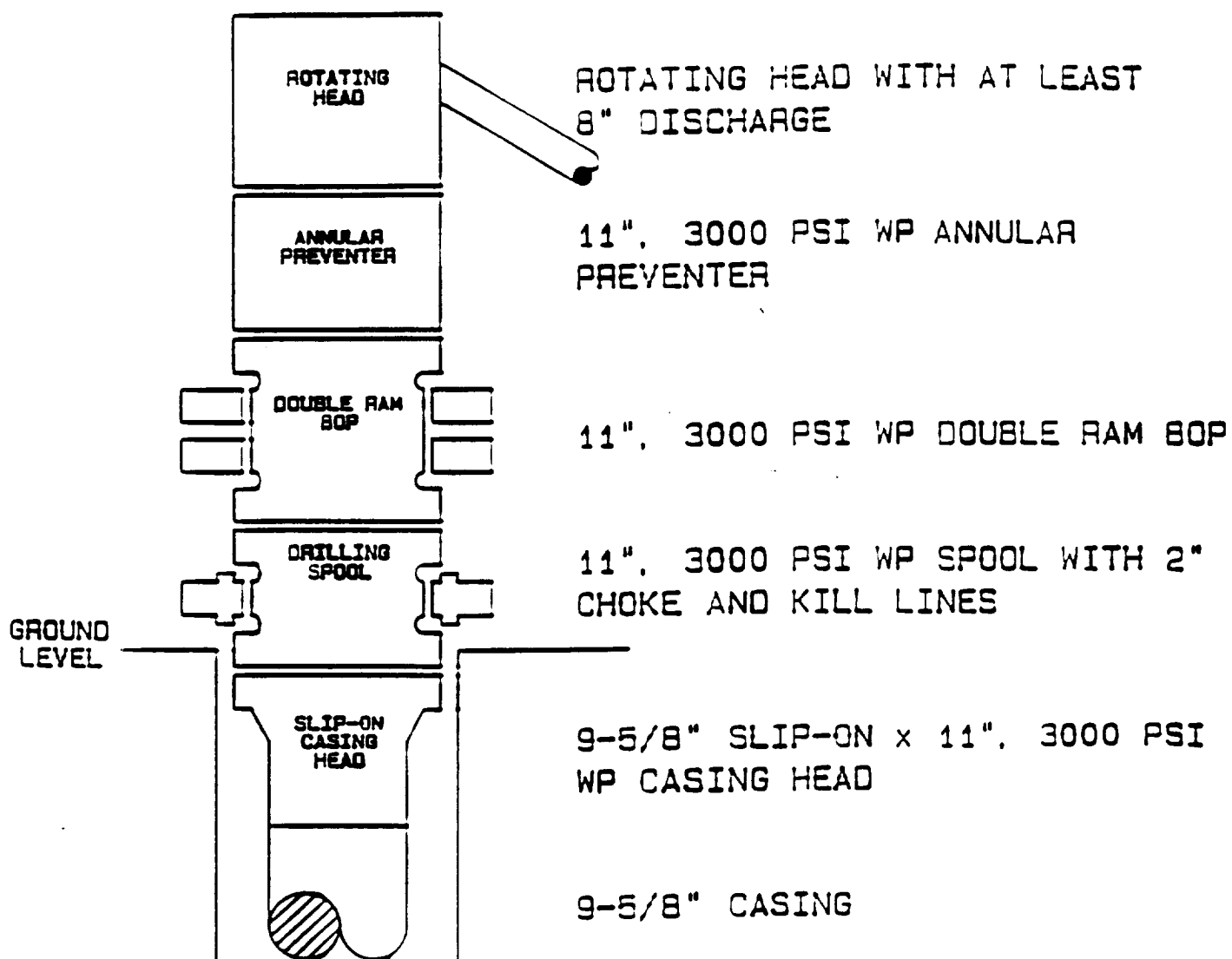
#### Production (first stage)

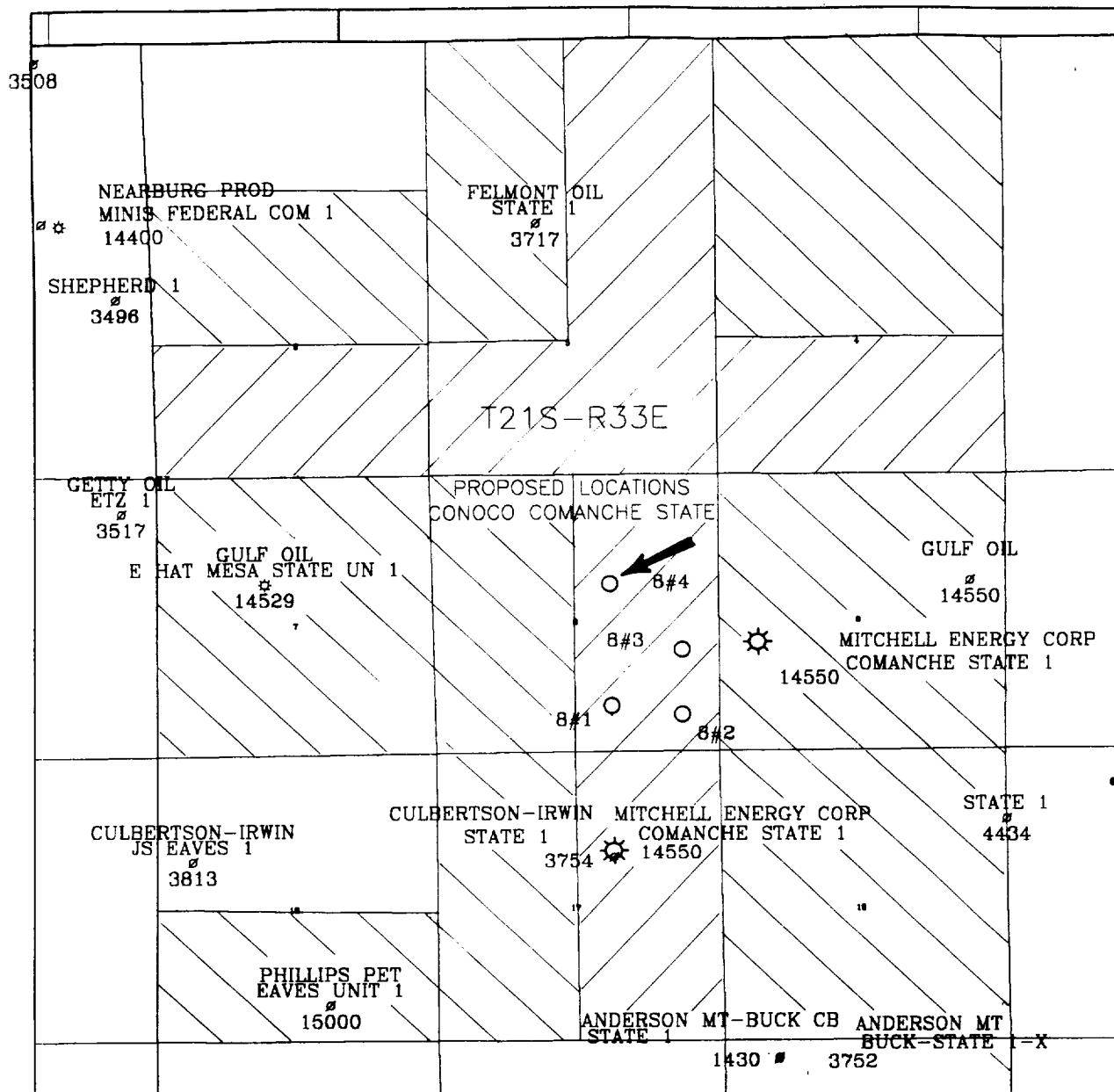
Lead 370 sxs Class C lite Mixed at 12.6 ppg  
Additives 0.2% Sodium Metasilicate + 5 pps Gilsonite  
Tail 300 sxs Class H Mixed at 15.6 ppg  
Additives 0.8% FL-62 + 0.3% CO-32 + 0.2% Sodium Metasilicate  
Percent free water 0 Water loss 250 cc

#### (second stage)

Lead 535 sxs Class C lite Mixed at 12.6 ppg  
Additives 0.2% Sodium Metasilicate  
Tail 100 sxs Class H Mixed at 15.6 ppg  
Additives 0.2% Sodium Metasilicate  
Percent free water 0 Water loss 500 cc

## BOP SPECIFICATIONS

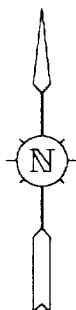




MISSISSIPPI CHEM. CORP

EDDY POTASH INC

ET 0 1:24000 5000 FEET



|   |              |               |
|---|--------------|---------------|
| CONOCO<br>MIDLAND DIVISION  |              |               |
| PERMIT PLAT<br>COMANCHE ST 8#1,2,3&4<br>SEC 8 T21S-R33E<br>LEA COUNTY, NEW MEXICO |              |               |
| DATE 1-2000   | BY R. BALSAM | DATE 2-OCT-92 |
|   |              |               |