

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

(Other instructions reverse side)

FORM APPROVED
OMB NO. 1004-0136
Expires February 28, 1995

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.

a. ADDRESS AND TELEPHONE NO

10 Desta Dr. Ste 430E, Midland, Tx. 79705-4500

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements *)

At surface

2630' FNL & 1330' FWL

At proposed prod. zone

2630' FNL & 1330' FWL

**SUBJECT TO
LIKE APPROVAL
BY STATE**

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

5. 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

8. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

6850'

20. ROTARY OR CABLE TOOLS

Rotary

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

3558' GR

22. APPROX. DATE WORK WILL START*

01/01/00

23

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	M-50, 8-5/8"	23#	1400'	565 sxs, circ.
7-7/8"	K-55, 5-1/2"	17#	6850'	1280 sxs, circ.

WITNESS

LEA COUNTY CONTROLLED WATER BASIN

It is proposed to drill a vertical wellbore as a Blinbry-Tubb Oil & Gas producer. NOS was filed 2/23/98. The well will be drilled and equipped according to the following additional attachments:

1. Well Location & Acreage Dedication Plat (C-102) along with other associated maps and plats.
- 2.. Proposed Well Plan Outline
3. Cementing Plan.
4. Surface Use Plan.
5. Trailer Mounted Rig Layout Drawing.
6. BOP & Choke Manifold Specifications.
7. H2S Drilling Operations Plan.
8. Surface owner communications.

**APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED**

This application includes ROW's for the well pad, electric line, access road and flowline.

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.

SIGNED

Jo Ann Johnson

TITLE

Jo Ann Johnson

Sr. Property Analyst

DATE

12-7-99

(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:

Acting

Assistant Field Office Manager.

Lands and Minerals

APPROVED BY

JOSEPH A. HARRIS

TITLE

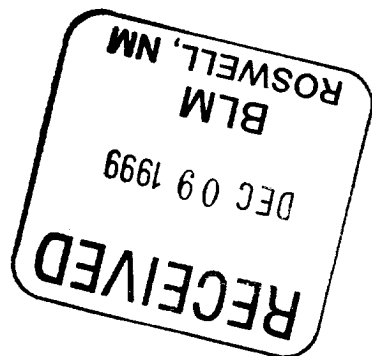
DATE

JAN 07 2000

*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.

GW



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, 1984
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-025-34840		*Pool Code 62965	*Pool Name Warren Blinebry-Tubb Oil & Gas
*Property Code 003127	*Property Name WARREN UNIT B-T		*Well Number 315
*OGRID No. 005073	*Operator Name CONOCO INC.		*Elevation 3558'

¹⁰ Surface Location

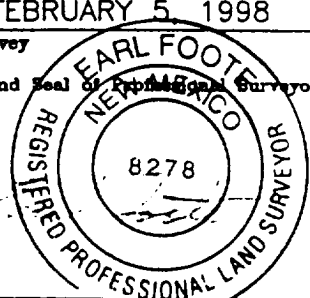
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	26	20-S	38-E		2630	NORTH	1330	WEST	LEA

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

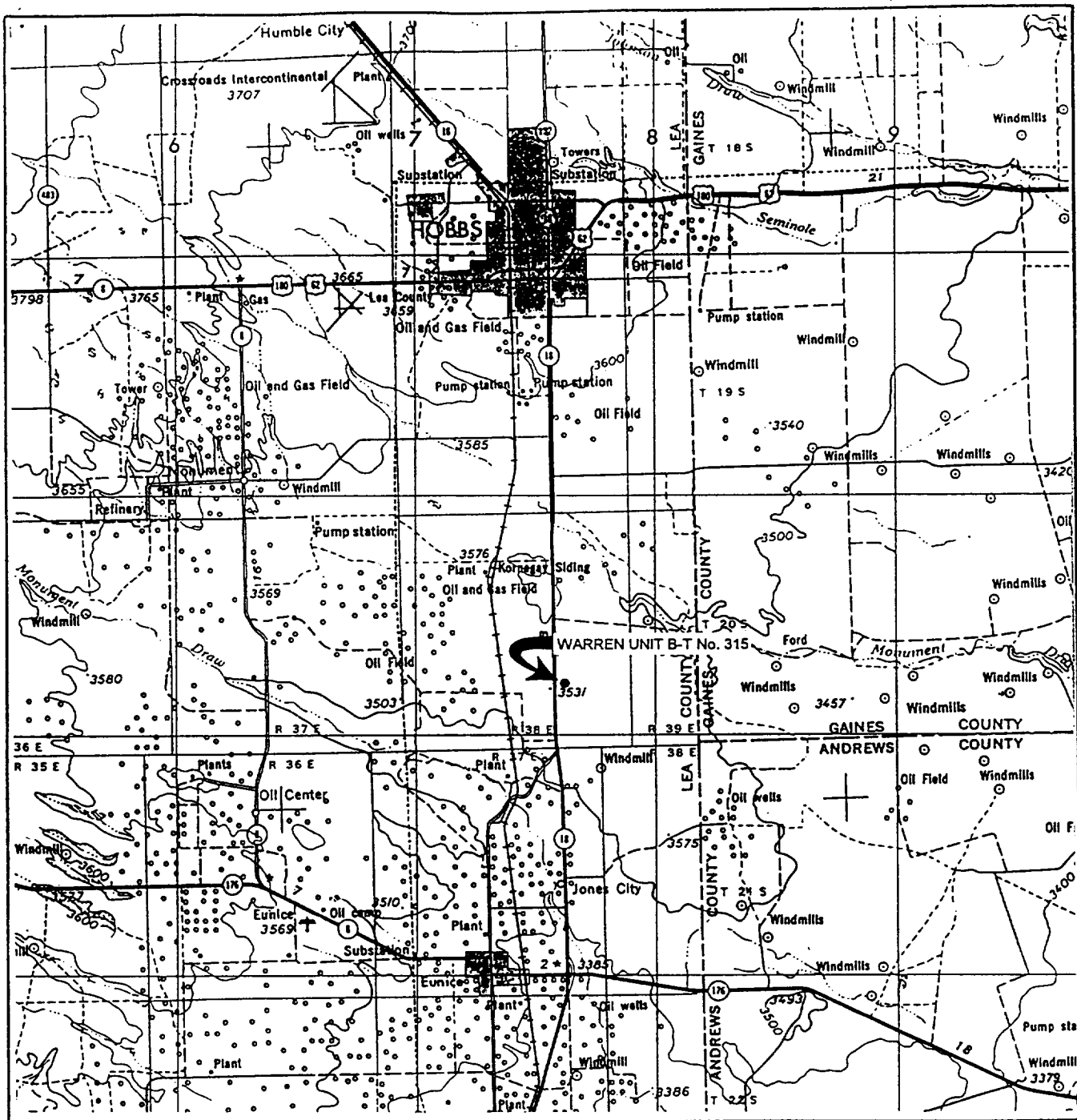
¹² Dedicated Acres 40	¹³ Joint or Infill I	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION.

<div>16</div>	<div>17 OPERATOR CERTIFICATION</div> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Jo Ann Johnson</i></p> <p>Signature Jo Ann Johnson Printed Name Property Analyst Title 3/11/98 Date</p>	
	<div>18 SURVEYOR CERTIFICATION</div> <p>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.</p> <p>FEBRUARY 5, 1998</p> <p>Date of Survey</p> <p>Signature and Seal of Registered Professional Surveyor:</p> <p></p> <p>Certificate Number 8278</p>	

See Amended Plat

VICINITY MAP



WTC 45166

SCALE: 1" = 4 MILES

SEC. 26 TWP. 20-S RGE. 38-E

SURVEY N.M.P.M

COUNTY LEA STATE NM

DESCRIPTION 2630' FNL & 1330' FWL

ELEVATION 3558'

OPERATOR CONOCO INC.

LEASE WARREN UNIT B-T NO. 315

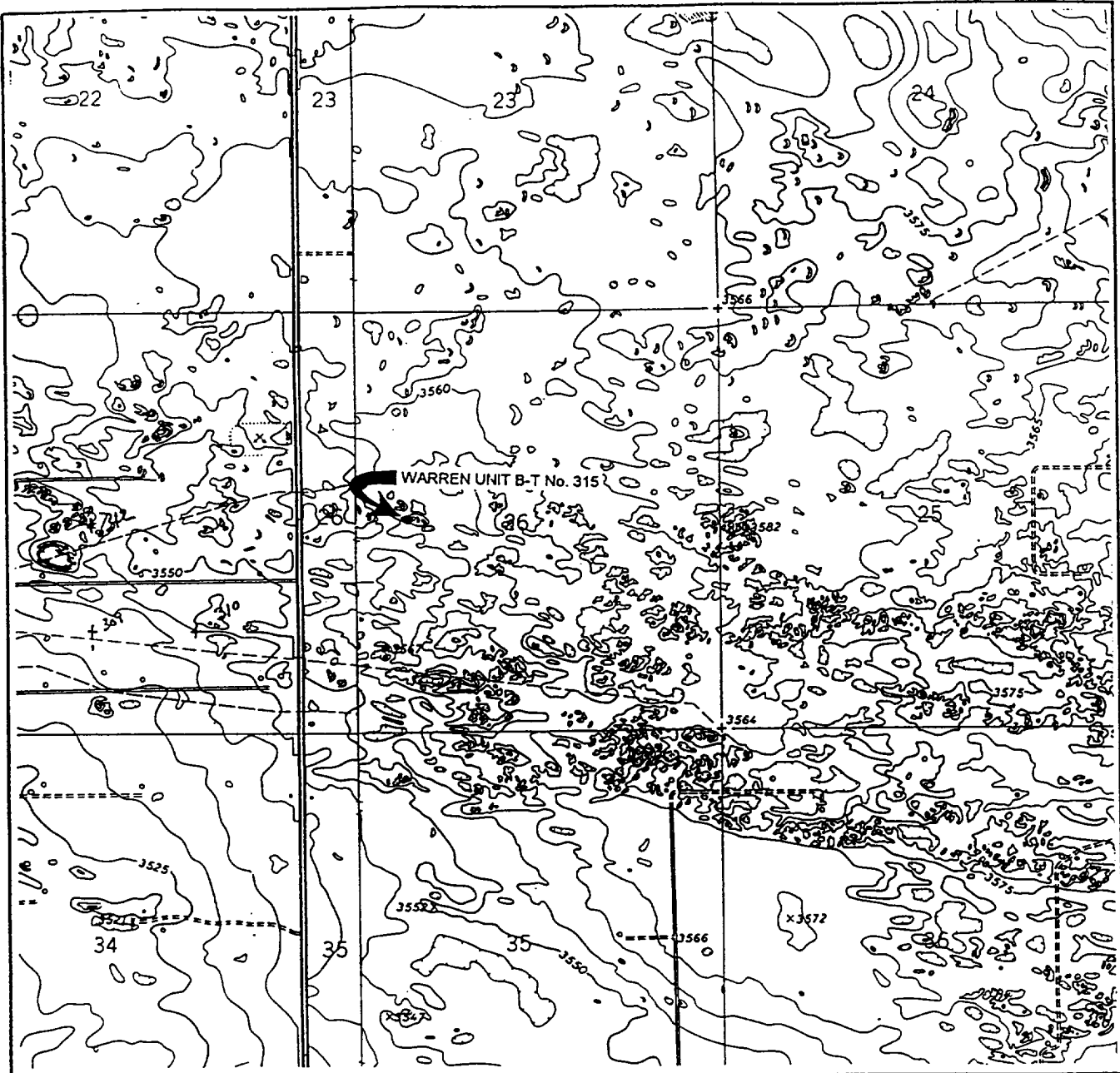
WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

915-685-3800

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'
WTC 45166

CONTOUR INTERVAL 5'

SEC. 26 TWP. 20-S RGE. 38-E

SURVEY N.M.P.M

COUNTY LEA STATE NM

DESCRIPTION 2630' FNL & 1330' FWL

ELEVATION 3558'

OPERATOR CONOCO INC.

LEASE WARREN UNIT B-T NO. 315

USGS TOPO MAP HOBBS SW, NEW MEXICO - HOBBS SE
TEXAS-NEW MEXICO

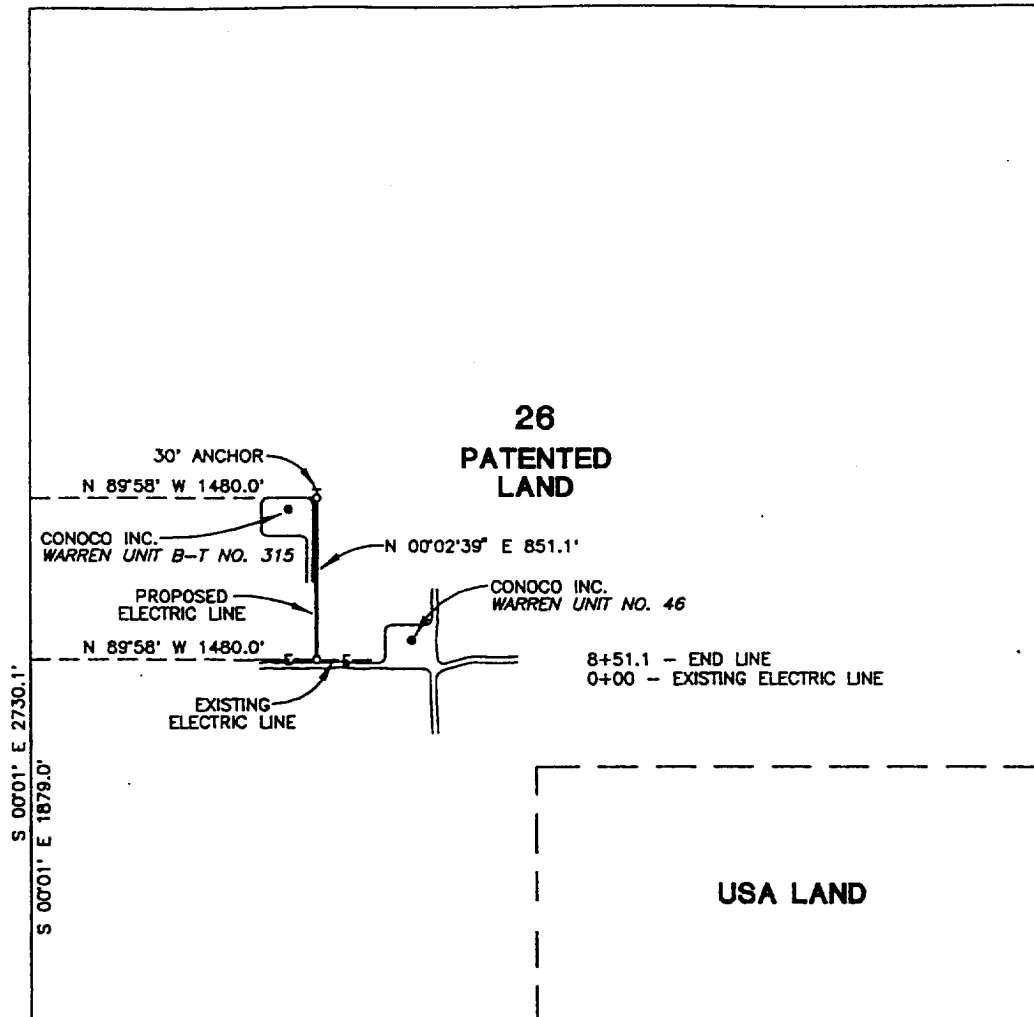
WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

915-685-3800

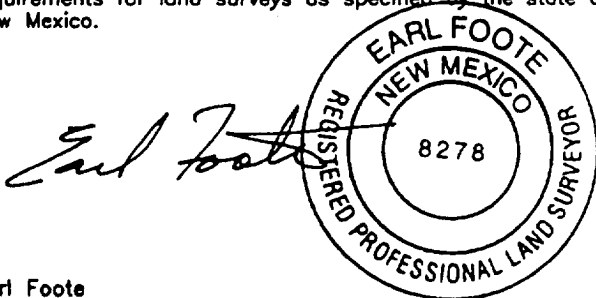
SECTION 26, TOWNSHIP 20 SOUTH, RANGE 38 EAST, N.M.P.M.
LEA COUNTY, NEW MEXICO



CENTERLINE DESCRIPTION OF A PROPOSED ELECTRIC LINE:

BEGINNING at a point in an existing electric line, from which point the southwest corner of Section 26, T-20-S, R-38-E, N.M.P.M., Lea County, New Mexico bears N 89° 58' W, 1480.0 feet and S 00° 01' E, 1879.0 feet;
THENCE N 00° 02' 39" E, with the centerline of proposed electric line, 851.1 feet to a point for the end of this line, from which point an anchor easement bears N 00° 02' 39" E, 30.0 feet and the southwest corner of Section 26 bears N 89° 58' W, 1480.0 feet and S 00° 01' E, 2730.1 feet.

I hereby certify that this plot was prepared from an actual survey made on the ground and meets or exceeds all requirements for land surveys as specified by the state of New Mexico.



Earl Foote
Registered Professional Surveyor
New Mexico Certificate No. 8278

PROPOSED ELECTRIC LINE TO SERVE
WARREN UNIT B-T WELL No. 315

CONOCO INC.

851.1 feet of proposed electric line in
Section 26, T-20-S, R-38-E, N.M.P.M.,
Lea County, New Mexico

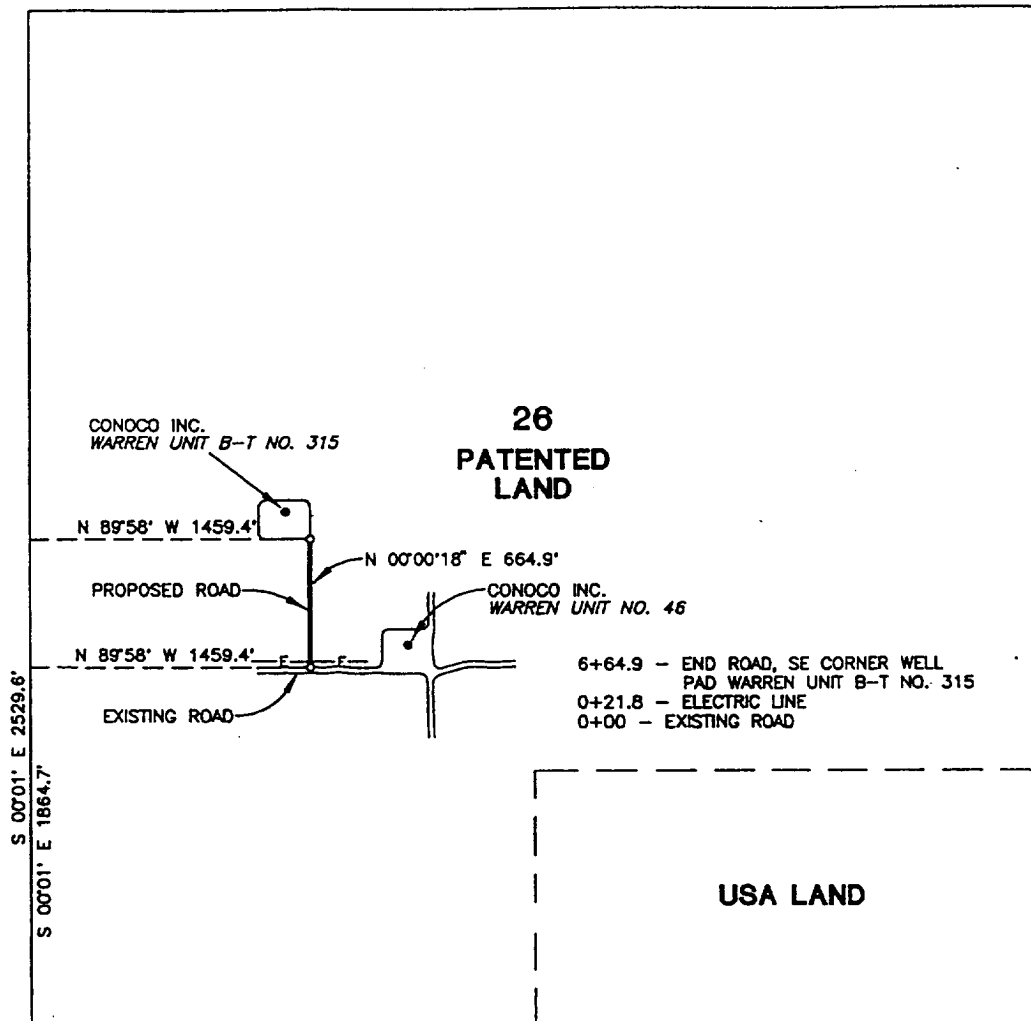
WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

Survey Date: 2-5-98	Date: 3-4-98	Scale: 1" = 1000'
WTC No. 45166	Drawn By: R.S.	Sheet 1 of 1

SECTION 26, TOWNSHIP 20 SOUTH, RANGE 38 EAST, N.M.P.M.
LEA COUNTY, NEW MEXICO

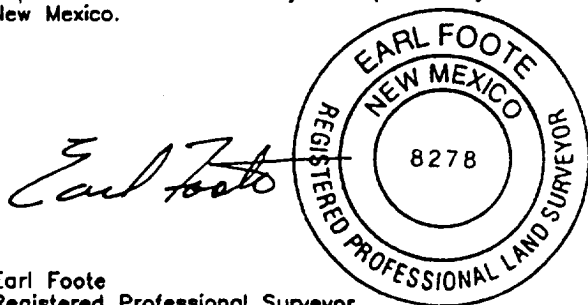


CENTERLINE DESCRIPTION OF A PROPOSED ROAD:

BEGINNING at a point in an existing road, from which point the southwest corner of Section 26, T-20-S, R-38-E, N.M.P.M., Lea County, New Mexico, bears N 89° 58' W, 1459.4 feet and S 00° 01' E, 1864.7 feet;

THENCE N 00° 00' 18" E, with the centerline of proposed road, 664.9 feet to a point in the southeast corner of well pad for Conoco Inc. WARREN UNIT B-T WELL No. 315, for the end of this line, from which point the southwest corner of Section 26 bears N 89° 58' W, 1459.4 feet and S 00° 01' E, 2529.6 feet.

I hereby certify that this plat was prepared from an actual survey made on the ground and meets or exceeds all requirements for land surveys as specified by the state of New Mexico.



PROPOSED ROAD TO SERVE
WARREN UNIT B-T WELL No. 315

CONOCO INC.

664.9 feet of proposed road in
Section 26, T-20-S, R-38-E, N.M.P.M.,
Lea County, New Mexico

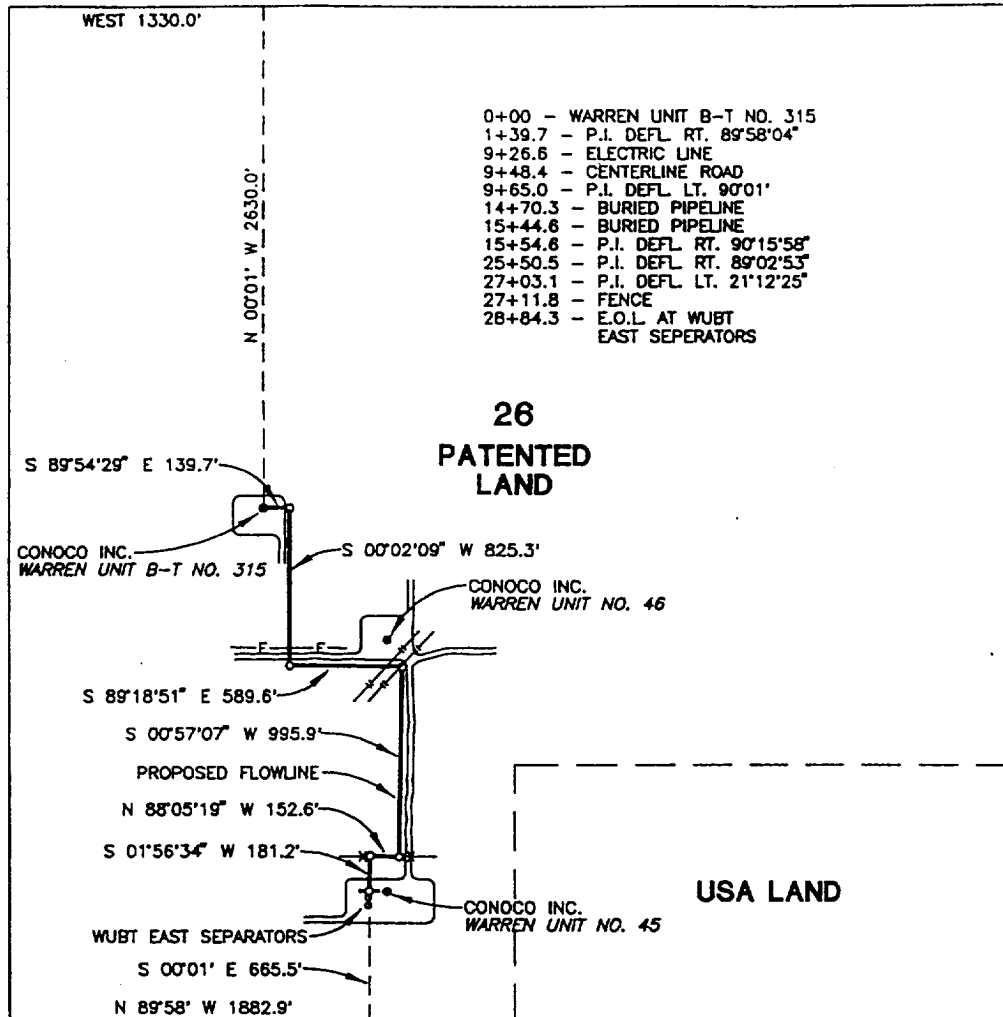
WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

Survey Date: 2-5-98	Date: 3-4-98	Scale: 1" = 1000'
WTC No. 45166	Drawn By: R.S.	Sheet 1 of 1

SECTION 26, TOWNSHIP 20 SOUTH, RANGE 38 EAST, N.M.P.M.
LEA COUNTY, NEW MEXICO



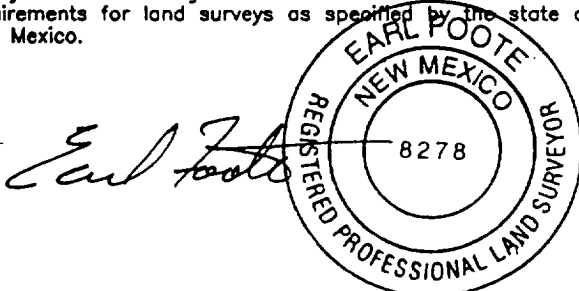
CENTERLINE DESCRIPTION OF A PROPOSED FLOWLINE:

BEGINNING at Conoco Inc. WARREN UNIT B-T WELL No. 315, from which point the northwest corner of Section 26, T-20-S, R-38-E, N.M.P.M., Lea County, New Mexico bears N 00° 01' W, 2630.0 feet and West 1330.0 feet;

THENCE with the centerline of proposed flowline as follows: S 89° 54' 29" E, 139.7 feet; S 00° 02' 09" W, 825.3 feet; S 89° 18' 51" E, 589.6 feet; S 00° 57' 07" W, 995.9 feet; N 88° 05' 19" W, 152.6 feet and S 01° 56' 34" W, 181.2 feet to a point at WUBT EAST SEPARATORS, for the end of this line, from which point the southwest corner of Section 26 bears S 00° 01' E, 665.5 feet and N 89° 58' W, 1882.9 feet.

PROPOSED FLOWLINE TO SERVE
WARREN UNIT B-T WELL No. 315

I hereby certify that this plat was prepared from an actual survey made on the ground and meets or exceeds all requirements for land surveys as specified by the state of New Mexico.



Earl Foote
Registered Professional Surveyor
New Mexico Certificate No. 8278

CONOCO INC.

2884.3 feet of proposed flowline in
Section 26, T-20-S, R-38-E, N.M.P.M.,
Lea County, New Mexico

WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

Survey Date: 2-5-98	Date: 3-4-98	Scale: 1" = 1000'
WTC No. 45168	Drawn By: R.S.	Sheet 1 of 1

PROPOSED WELL PLAN OUTLINE

WELL NAME **Warren Unit No. 315**
 LOCATION **2630' FNL & 1330' FWL S28-T20S-R38E**

GL = 3358'
 ALL DEPTHS ARE:
 BELOW GROUND LEVEL

TVD	MD	FORMATION	DRILLING PROBLEMS & COMMENTS	FORMATION EVALUATION	HOLE SIZE	CASING PROGRAM	FRAC GRAD	FORMATION PRESSURE GRADIENT	MUD WEIGHT & TYPE	DAYS
0	0		Possible hole enlargement and sloughing		12-1/4"				Spud	
1000	1000					8-5/8", 23#, M-50 ST&C @ 1400' 565 ex. Circulate Cement		Less than 8.3		1
		Rustler @ 1300' Top Salt @ 1400'	Washouts in Salt Section		7-7/8"				10 ppg Brine	2
2000	2000							Less than 8.4		
		Base Salt @ 2800' Yates @ 2837'	Possible Deviation							
3000	3000	7-Rivers @ 3107'								
		Queen @ 3669' Penrose @ 3820'		H2S Monitor on at 3500' No Mud Log						
4000	4000	Grayburg @ 4003'								
		Sac. Andreu @ 4290'	Possible losses and seepage to TD			Mud up with Gel-Starch if necessary to control losses.				
5000	5000									7
		Glorieta @ 5531'	Possible differential sticking through Glorieta							
6000	6000	Blinberry @ 5920'				Top Tail Cement @ 5700				
		Tubb Mkr @ 6466'							Starch/salt gel	16
7000	7000	Drinkard @ 6782' TD @ 6850'		GR-CAL-CNL-FDC-MLL-DLL-PE 2800'-TD		5-1/2", 17#, K-55, LT&C @ 6850' 1280 ex. Circulate Cement				
8000	8000									

Jim Tietema
 Jim Tietema, Drilling Engineer

4-Mar-98

Tim Schaefer
 Tim Schaefer, Production Engineer

4-Mar-98

Joe Miller
 Joe Miller, Reservoir Engineer

4-Mar-98

Well Name : Warren Unit #315

Location : 2630' FNL & 1330' FWL Sec 26, T-20S, R-38E, Lea County, New Mexico

Casing Program :

Surface 8 5/8" casing in 12 1/4" Hole at 1400 ft.

Production 5 1/2" casing in 7 7/8" Hole at 6850 ft.

Cementing Program :

Surface

Lead 365 sacks Class C
Additives 35:65:6 (Poz:Cem:Gel) + 2% CACL2
+ 0.25 pps Cello-Flake
Mixed at 12.7 ppg Yield 1.87 cuft/sk

Tail 200 sacks Class C
Additives 2% A-7P
Mixed at 14.8 ppg Yield 1.34 cuft/sk

Production

Lead 1020 sacks Class C
Additives 16% Gel + 0.4% CD-32 + 0.2% SMS
Mixed at 12 ppg Yield 2.68 cuft/sk
Tail 260 sacks Class C
Additives 1.1% FL-62 + 1% BA-58 + 3% Salt + 0.3% CD-32
+ 0.2% SMS
Mixed at 14.8 ppg Yield 1.37 cuft/sk
Free Water 0 % Fluid Loss 45 cc/30 min.

**SURFACE USE PLAN
Conoco Inc.**

Warren Unit B-T #315

The following is required information concerning the possible affect which the drilling of this well may have on the environment, existing road sites, and surrounding acreage. A copy will be posted on the derrick floor so all contractors and sub-contractors will be aware of all items of this plan.

1. Existing Roads

- A. The proposed well site is 2630' FNL & 1330' FWL, Sec. 26, T20S, R38E
- B. Directions to the location are as follows:

South of Hobbs on Hwy. 18 to ½ mile south of Mile Marker #39; turn east and travel ½ mile; turn north and travel ½ mile; turn west and travel ¼ mile; then turn south to location.

- C. No improvement or maintenance is anticipated for the existing roads.

2. Planned Access Roads

- A. 664.9' of new access road will be required.
- B. Turnouts as required by surface managing agency.
- C. Culverts as required by surface managing agency.
- D. Gates, cattleguards, or fences as required by surface managing agency.

3. Topographic Map and Well Location

A 7.5" quadrangle topo map was filed with the NOS.

4. Additional Rights-of-Way

Electric line, access road and flowline as shown on attached plats.

5. Water Supply

Fresh and brine water will be obtained from Goldstar's Water Station located 1 mile north of Eunice, NM, and will be trucked to location by the same directions for reaching the drilling site.

6. Source of Construction Materials

Construction materials will be obtained from the SE/4 SE/4, Sec. 15, T20S, R38E, Lea County, NM.

7. Methods of Handling Waste Disposal

- A. The drill cuttings, fluids and completion fluids will be placed in the reserve pit. The reserve pit will be fenced on three sides away from the pad during drilling and the fourth side fenced as soon as the rig moves out. The reserve pit will be allowed to dry, and materials remaining in the reserve pit buried. The reserve pit will be backfilled, leveled and contoured so as to prevent any materials being carried into the watershed. Upon completion, the pad will be leveled, contoured, and reseeded with the appropriate seed mixture as specified by the surface managing agency.
- B. All garbage and trash will be hauled away to designated landfill by Conoco.
- C. Chemical toilets will be provided and maintained during drilling operations.

8. Ancillary Facilities

No ancillary facilities are planned.

9. Wellsite Layout

See attached Wellsite Layout. The V-door faces East. The reserve pit will be lined with plastic and the pad and pits are staked. All unguarded pits containing liquids will be fenced and any unguarded pit containing liquids will be fenced.

10. Plans for Restoration of Surface

Reserve pits will be rehabilitated once drilling fluids have been allowed to evaporate to the point the pits are dry enough for backfilling and leveling. In the event drilling fluids will not evaporate in a reasonable time period, the fluids will be removed and transported by tank truck to a state approved disposal facility. Backfilling and leveling of the location will be completed within a time period of one year upon cessation of drilling operations.

11. Surface Ownership

The surface ownership is Robert A. McCasland and Dallas M. McCasland.

12. Archeological Clearance

An archeological survey is being conducted and will be provided upon completion.

13. Operator's Representative and Certification

The person who can be contacted concerning compliance of this Surface Use Plan is:

Mike L. Mankin
10 Desta Drive, Suite 430E
Midland, Texas 79705
(915) 686-5794

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drilling site; that I am familiar with the conditions which currently exist; that the statements made in this plan, are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Conoco Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Mike L. Mankin
JM

Mike L. Mankin
Right-of-Way Agent

3-11-98
Date



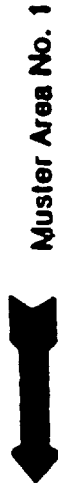
WDI



H2S Safety Contractor

Terrain is flat, and covered with native grasses
Two of the three WDI (wind direction indicator) locations will be utilized
(Prevailing winds are SW to NE)

Conoco Quarters

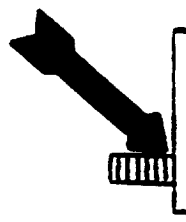


Muster Area No. 1

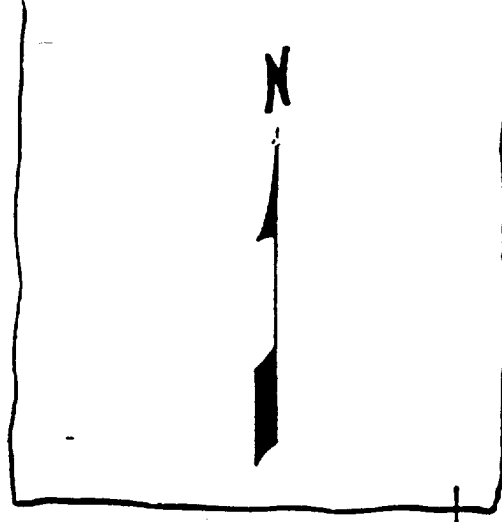
Contractor Quarters



WDI



Choke Manifold



Muster Area No. 2
WDI



TRAILER - MOUNTED RIG LAYOUT

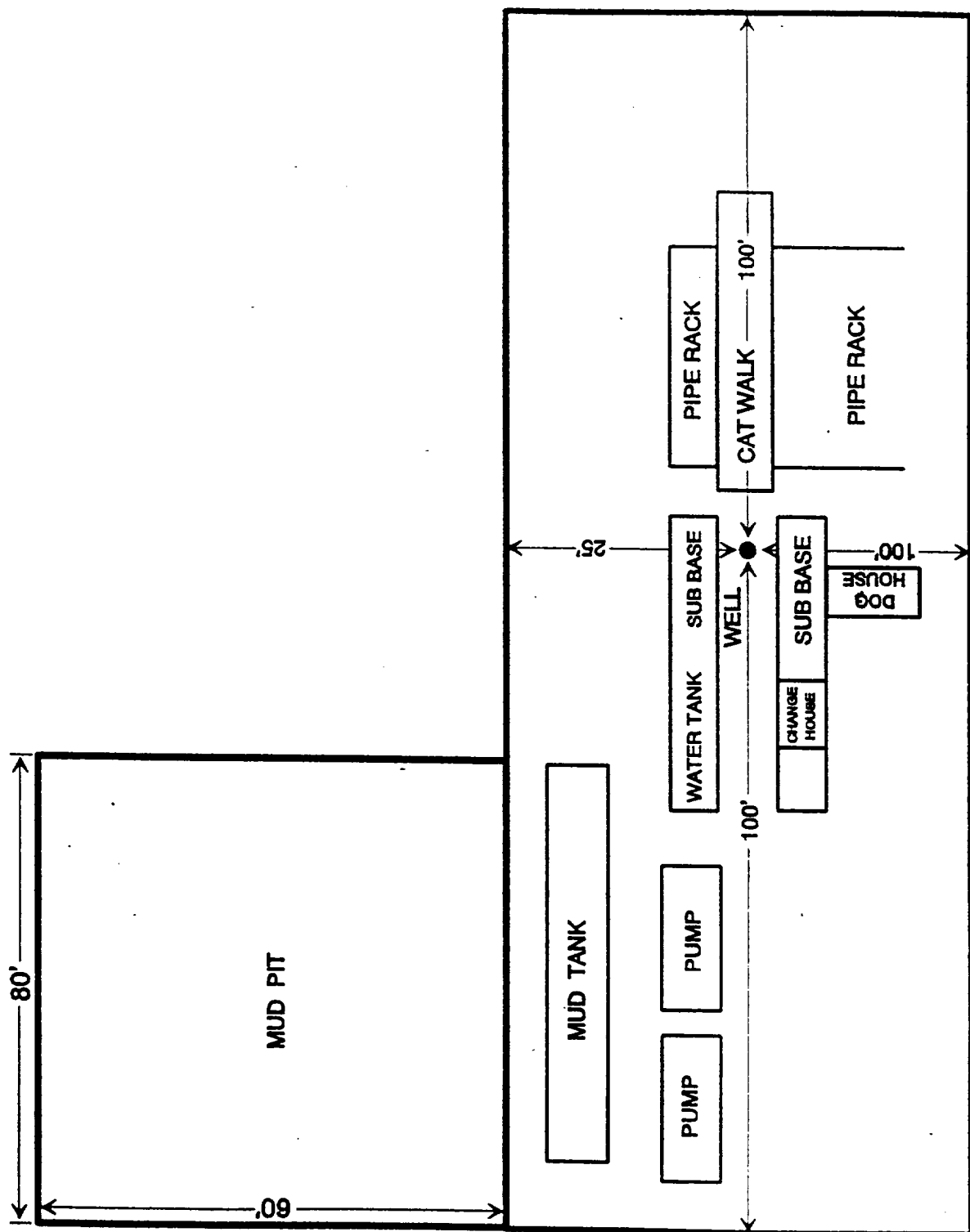
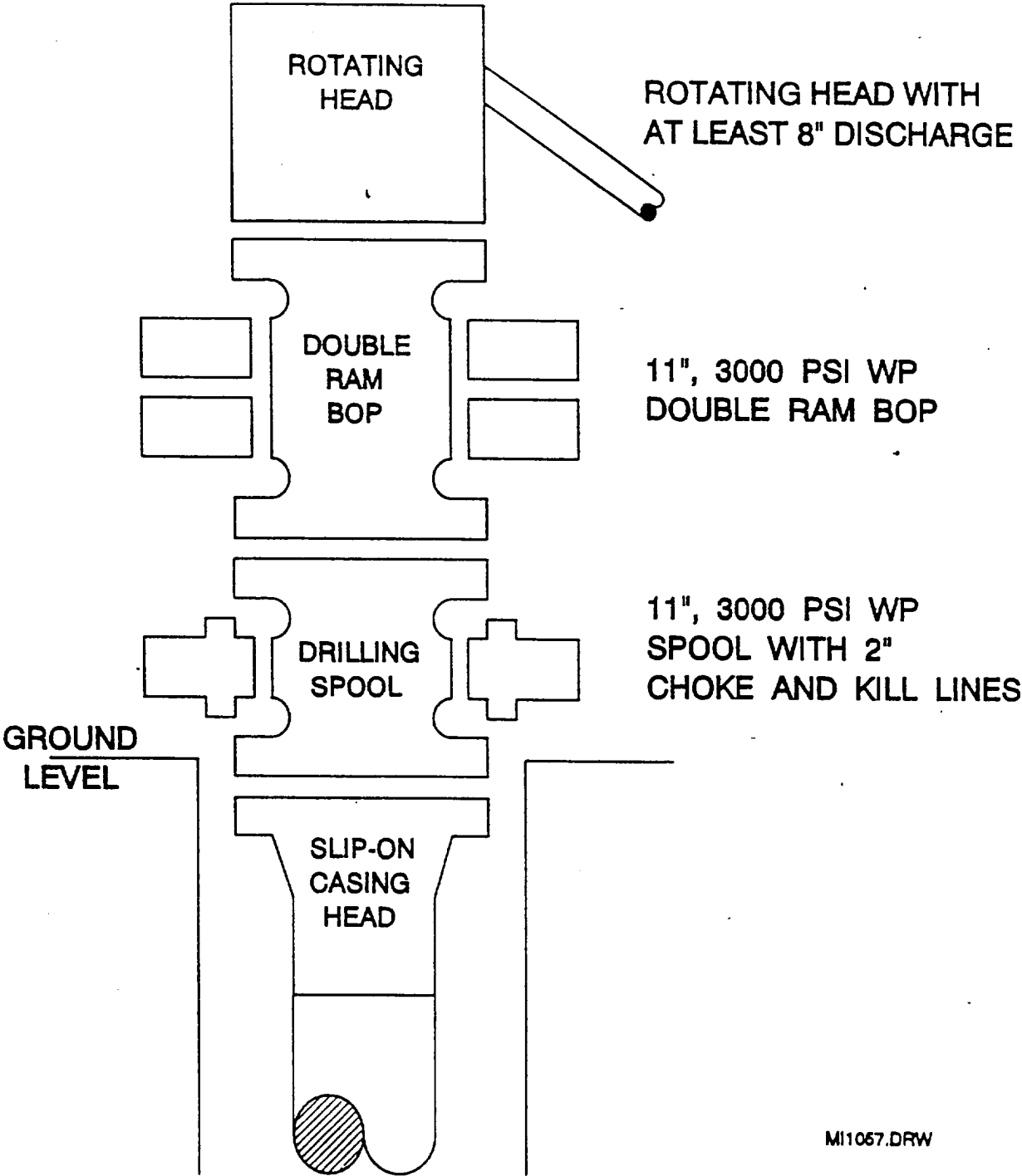
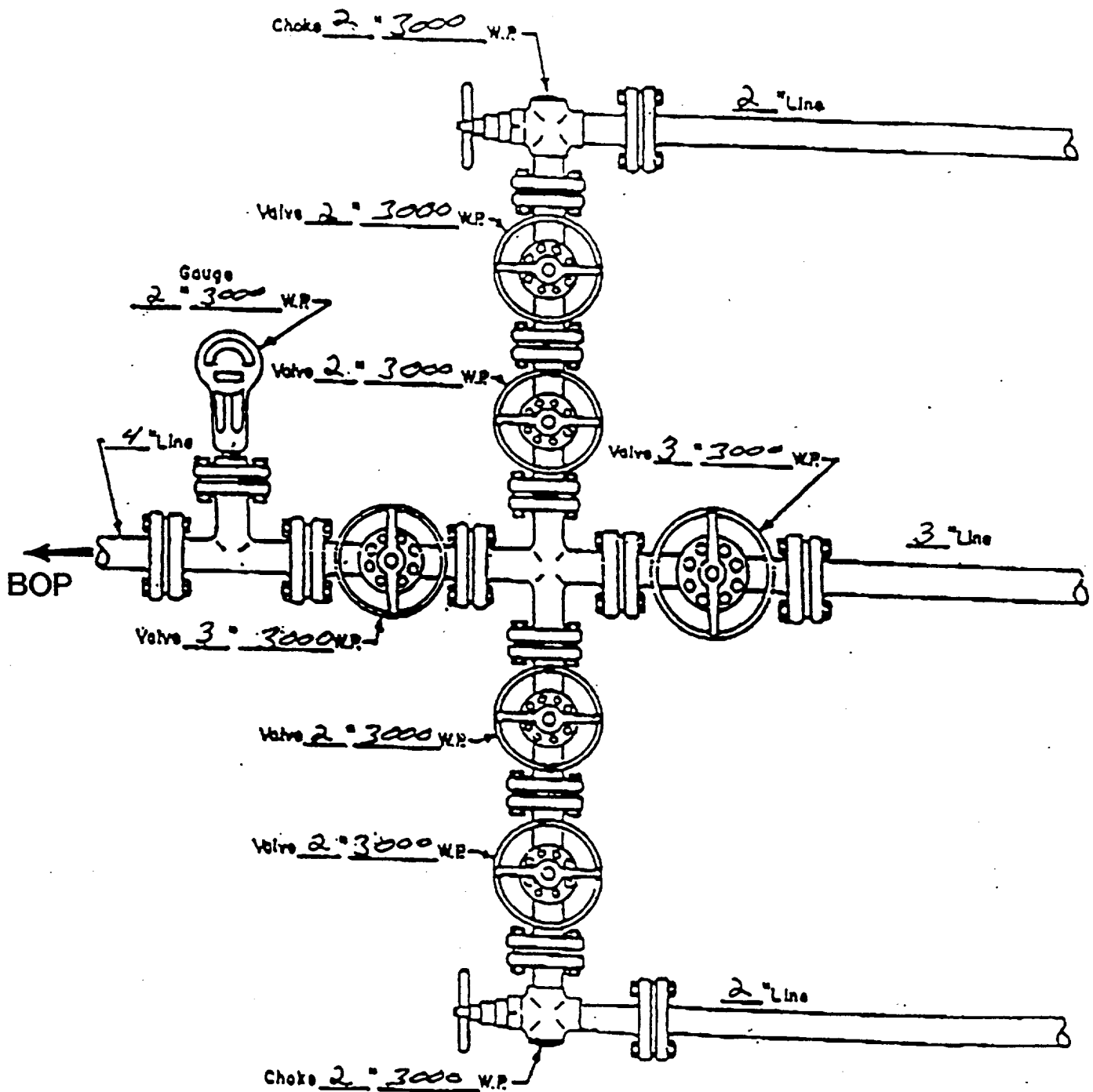


EXHIBIT D

BOP SPECIFICATIONS



CHOKE MANIFOLD DIAGRAM



MANIFOLD
3000 W.P.

- ☒ Manual
- ☐ Hydraulic

H2S DRILLING OPERATIONS PLAN

I. Hydrogen Sulfide Training

All contractors and subcontractors employed by Conoco will receive or have received training from a qualified instructor within the last twelve months in the following areas prior to commencing drilling operations on this well.

1. The hazards and characteristics of hydrogen sulfide (H2S)
2. Safety precautions
3. Operations of safety equipment and life support systems.

In addition, contractor supervisory personnel will be trained or prepared in the following areas:

1. The effect of H2S on metal components in the system, especially high tensile strength tubulars are to be used.
2. Corrective action and shut-down procedures when drilling or reworking a well, blowout prevention and well control procedures, if the nature of work performed involves these items.
3. The contents and requirements of the contingency plan when such plan is required.

All personnel will be required to carry documentation of the above training on their person.

II. H2S EQUIPMENT AND SYSTEMS

1. Safety Equipment

The following safety equipment will be on location:

- A. Wind direction indicators as seen in attached diagram.
- B. Automatic H2S detection alarm equipment (both audio and visual).
- C. Clearly visible warning signs as seen on the attached diagram. Signs will use the words "POISON GAS" and "CAUTION" with a strong color contrast.
- D. Protective breathing equipment will be located in the dog house and at briefing areas as seen in the attached diagram.

2. Well Control Systems

A. Blowout Prevention Equipment

Equipment includes but is not limited to:

- a. pipe rams to accomodate all pipe sizes
- b. blind rams
- c. choke manifold
- d. closing unit
- e. flare line and means of ignition

B. Communication

The rig contractor will be required to have two-way communication capability. Conoco will have either land-line or mobile telephone capabilities.

C. Mud Program

The mud program has been designed to minimize the volume of H₂S circulated to surface. Proper mud weight, safe drilling practices, and the use of H₂S scavengers when appropriate will minimize hazards when penetrating H₂S bearing zones.

D. Drill Stem Tests

There are no drill stem tests proposed for this well.

III. WELL SITE DIAGRAM

A complete well site diagram including the following information is attached:

- 1. Rig orientation
- 2. Terrain
- 3. Briefing areas
- 4. Ingress and egress
- 5. Pits and flare lines
- 6. Caution and danger signs
- 7. Wind indicators and prevailing wind direction



Mike L. Mankin
Right of Way Agent
Right of Way and Claims

Conoco Inc.
10 Desta Drive, Suite 430E
Midland, Texas 79705
(915) 686-5794

February 19, 1998

Bureau of Land Management
620 E. Greene
Carlsbad, New Mexico 88221

Attn: Mr. Barry Hunt, Surface Protection Specialist

Re: Settlement for Well Location and Appurtenances
WARREN UNIT B-T, Well # 315
Section 26, T20S, R38E
Lea County, New Mexico

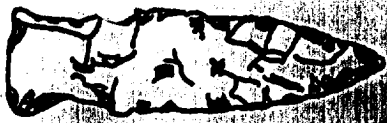
Dear Mr. Hunt:

By this letter Conoco Inc. has made settlement , with surface owner, for the construction of the above referenced location and appurtenances..

If you have any questions, please contact me at 915-686-5794.

Sincerely,

Mike L. Mankin



WU B-T #315
Desert West

ARCHAEOLOGICAL SERVICES

RECEIVED

MAR 26 1998

CONOCO
ROW&C

March 13, 1998

Mike Mankin
Conoco INC.
10 Desta Dr. - East 430
Midland, Tx. 79705

Dear Mr. Mankin:

Enclosed please find your copy of Desert West Archaeological Services (DWAS) Clearance Report for Conoco INC'S proposed well pad, access road, flow line and power line crossing PRIVATE land with FEDERAL minerals for the Warren Unit B-T No. 315 in Section 26, T20S, R38E, NMPM, Lea County, New Mexico. No cultural resources were encountered during this survey; therefore, archaeological clearance is recommended for your project as presently staked. No further archaeological work should be required.

The Bureau of Land Management will review this report and make the final decision on archaeological clearance for your project.

If you have any questions, please call our office.

Sincerely,



Anita Slate

Enclosure

xc: Bureau of Land Management, Carlsbad Resource Area, Carlsbad, NM (2)

**TITLE PAGE/ABSTRACT/
NEGATIVE SITE REPORT
ROSWELL DISTRICT**

BLM/ RDO 1/95

1. BLM Report No.	2. (ACCEPTED) (REJECTED)	3. NMCRIS No.: 60114
4. Title of Report (Project Title): Archaeological survey of CONOCO INC.'S proposed Warren Unit B-T No. 315 crossing Private Surface with Federal Minerals, well pad [2630' FNL, 1330' FWL] access road [664.9'], Electric line [851.1'], flow line [2884.3'] connecting to the WUBT East Separators in Sec 26, T20S, R38E, NMPM, LEA County, NM.		5. Project Date(s): 2-10-98, 3-9-98
7. Consultant Name & Address: Direct Charge: Danny Boone Name: Desert West Archaeological Services Address: P.O. Box 645, Carlsbad, NM 88220 Authors Name: David Wilcox Field personnel names: Danny Boone and Thor Dye Phone (505) 887-7646		6. Report Date: 3-11 -98
		8. Permit No.: 123-2920-97-N
10. Sponsor Name and Address: Indiv. Responsible: Mike Mankin Name: CONOCO INC. Address: 10 Desta Dr. - East 430 Midland, Tx. 79705 Phone (915) 686-5794		9. Consultant Report No. DWAS 98-13M
		11. For BLM Use only.
		12 ACREAGE: Total No. of acres surveyed: 13.77 Per Surface Ownership: Federal: 0 State: 0 Private: 13.77 ALL FEDERAL MINERALS
13. Location: (Maps Attached if negative survey) <ul style="list-style-type: none"> a. State: NM b. County: LEA c. BLM District: ROSWELL Resource area: CARLSBAD d. Nearest City or Town: EUNICE, NM e. Location: T20S, R38E, Sec. 26; Pad, SW/4 NW/4, SE/4 NW/4, NE/4 SW/4, NW/4 SW/4: Road, NW/4 NE/4 SW/4, SW/4 NE/4 SW/4: Flow Line, NW/4 NE/4 SW/4, SW/4 NE/4 SW/4, SE/4 NE/4 SW/4, NE/4 SE/4 SW/4, Well Pad Footages: 2630' FNL, 1330' FWL f. USGS 7.5' Map Name(s) and Code Number(s): HOBBS SE, Tex.-N. Mex. (1969, Photo Rev. 1979) 32103-E1 HOBBS SW, NM (1969) 32103-E2 g. Area: Block; Impact : Within 400' x 400' Surveyed: 400' x 400' Road, Linear: Impact: 50' x 664.9' Surveyed: 100' x 664.9' <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> Flow line Sec. Linear: Impact: 30' x 2884.3' Surveyed: 100' x 2884.3' </div> <div style="width: 45%;"> Power line, Linear: Impact: 30' x 851.1' Surveyed: 100' x 851.1' </div> </div>		

14. a. Records Search:

Location : BLM and ARMS by Chris Owens

Date: 3-4-98

List by LA # all sites within .25 miles of the project:

(Those sites within 500' are to shown on the project map)

b. Description of Undertaking: The proposed project is a well pad, road, flow line and electric line on PRIVATE lands with FEDERAL minerals and lies on a dunal plain of occasional moderate to high dunes of sugary sand 2-3 meters in hight and deflation basins from 2-3 meters in depth up to several hundred meters in diameter but covered with vegetation. The flow line parallels existing roads except for the first 664.9' which parallels the proposed road. The power line parallels the proposed road.

c. Environmental Setting (NRCS soil designation; vegetative community; etc.)

Vegetation: Shin Oak, Yucca, Sunflower, Prickly Pear Cactus, Mesquite, Broom Snakeweed, Sage Brush and various grasses and other flora.

NRCS : Berino-Cacique association: Nearly level and gently sloping, sandy soils that are deep and moderately deep to soft or indurated caliche

d. Field Methods: straight line or zigzag transects

Transect Intervals: 15 meters or less

Crew Size: one archaeologist

Time in Field: 4.5 hrs

Collections: NA

15. Cultural Resource Findings: NA

a. Identification and description: (Location shown on Project map)

16. Management Summary (Recommendations):

Archaeological clearance for CONOCO INC.'S proposed Warren Unit B-T Well No. 315 (2630' FNL, 1330' FWL) and related access road, power line and flow line in T20S, R38E, Section 26 is recommended as presently marked. The BLM and DWAS are to be notified immediately if any cultural resources are encountered during construction.

I certify that the information provided above is correct and accurate to the best of my knowledge and meets all appreciable BLM standards.

Responsible Archaeologist

Nancy Boone
Signature

3-11-98
Date

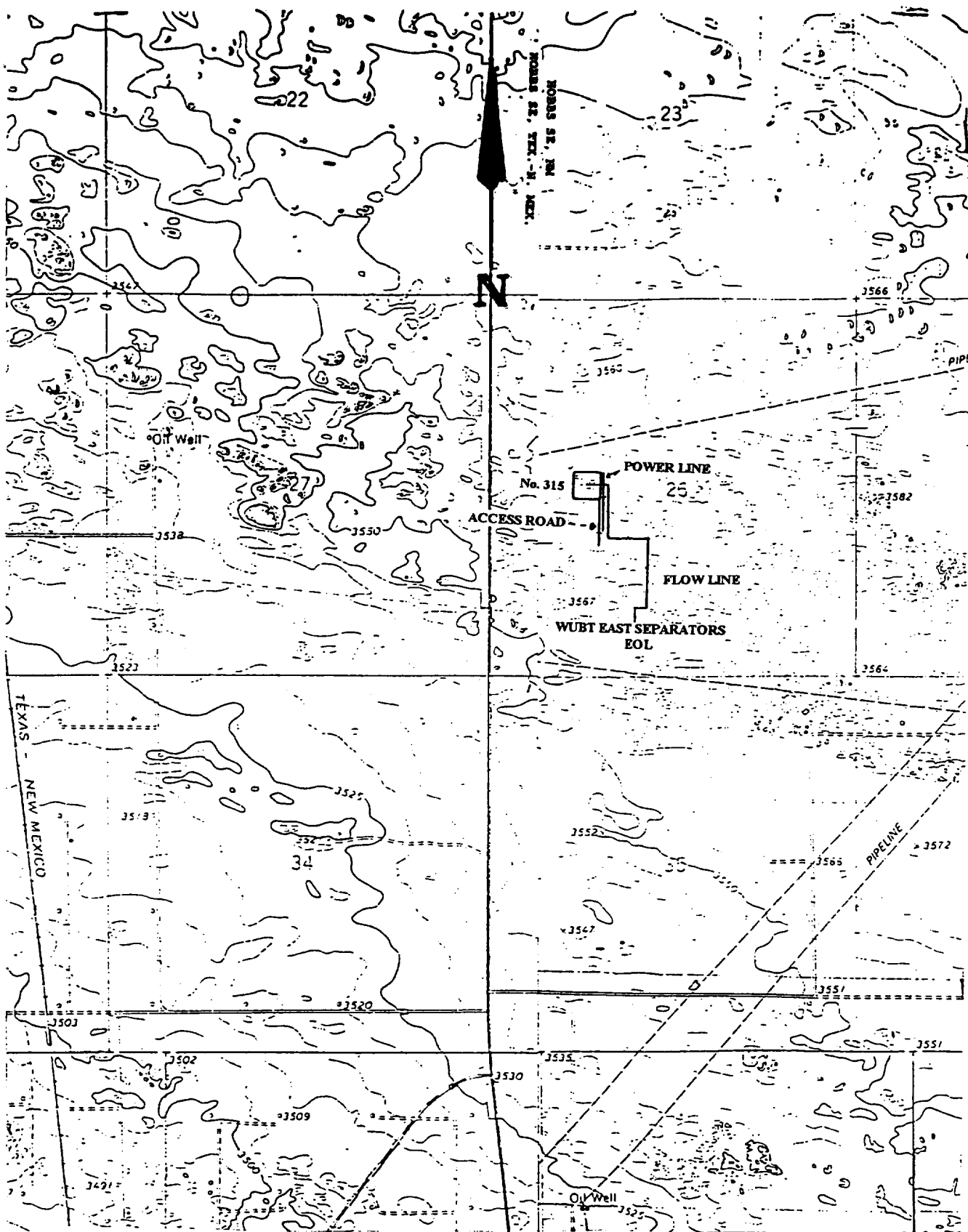


Figure 1. Showing the location of CONOCO INC.'S Warren Unit B-T, Well No. 315 proposed pad [2630' FNL, 1330' FWL], access road [664.9'], power line [851.1'] and flow line [2884.3'] in Section 26, T20S, R38E, NMPM, LEA COUNTY, NM.

Map Reference: USGS 7.5' Series, HOBBS SE, TEX.-N. MEX. (1969, Photo Rev. 1979) 32103-E1
HOBBS SW, NM (1969) 32103-E2

ABOVE DATE DOES NOT
INDICATE WHEN
CONFIDENTIAL LOGS
WILL BE RELEASED

ELF

12/4/61

