

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL  DEEPEN  PLUG BACK

b. TYPE OF WELL  
 OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
 Conoco Inc. ✓

3a. Acreage  Phone No.  
 915-686-8548

3. ADDRESS OF OPERATOR  
 10 Desta Drive, Suite 100W, Midland, Tx 79705

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)  
 At surface 2310 2130' FNL, 1830' FEL  
 At proposed prod. zone Cisco 1800

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

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED TO THIS WELL

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

20. ROTARY OR CABLE TOOLS

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

22. APPROX. DATE WORK WILL START\*

5. LEASE DESIGNATION AND SERIAL NO.  
 79400008590 NM 0559175

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
 Dagger Draw

9. WELL NO.  
 12

10. FIELD AND POOL, OR WILDCAT  
 X N. Dagger Draw U/Penn

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA  
 Sec. 30, T-19S, R-25E

12. COUNTY OR PARISH  
 Eddy

13. STATE  
 NM

23. PROPOSED CASING AND CEMENTING PROGRAM Roswell Controlled Water Basin

HOLE SIZE	CASING SIZE	WEIGHT/FOOT	GRADE	THREAD TYPE	SETTING DEPTH	QUANTITY OF CEMENT
14-3/4"	9-5/8"	36	K-55	LT&C	1200'	2000 LBS. CEMENT
8-3/4"	7"	26	K-55	LT&C	8100'	1800 LBS. SEE SLIPS

Part 10-1  
6-5-92  
New Loc + API

It is proposed to drill this well according to the following:

- Attachments:
- Well Location & Acreage Dedication Plat
  - Attachment to Form 3160-3
  - Proposed Well Plan Outline
  - Surface Use Plan
  - Exhibit A - New Mexico Road Map
  - Exhibit B - Lease Road Map
  - Exhibit B.1 - Location Facility Plat
  - Exhibit B.2 - Ancillary Facilities
  - Exhibit C - Rig Layout Plat
  - BOP Specifications
  - H2S Drilling Operations Plan

PROPOSED SUBJECT TO  
SPECIAL REQUIREMENTS AND  
SPECIAL STIMULATIONS  
ATTACHED

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. 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 [Signature] TITLE Sr. Conservation Coordinator DATE 01-15-92

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
 APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE 5-29-92

CONDITIONS OF APPROVAL, IF ANY:  
 UNORTHODOX LOCATION PERMIT.  
 COMMUNITIZATION AGREEMENT.

\*See Instructions On Reverse Side



**ATTACHMENT TO FORM 3160-3  
APPLICATION FOR PERMIT TO DRILL**

**Conoco Inc.**

**Dagger Draw No. 12  
Sec. 30, T-19S, R-25E  
Eddy County, New Mexico**

1. The estimated tops of important geologic markers are shown on the attached Proposed Well Plan Outline.
2. The estimated depths at which anticipated water, oil, gas or other mineral-bearing formations to be encountered are shown on the attached Proposed Well Plan Outline.
3. A drawing of Blowout Preventer Specifications is attached. Pipe rams and blinds will be checked to the working pressure of the stack or 70% of the minimum internal yield strength of the casing whichever is less. BOPE will be checked when casing string is set.
4. The proposed casing program is as follows:

0-1200':	9-5/8",	36#	K-55
0-8100':	7",	26#	K-55
5. The proposed mud program is as follows:

0-1200':	8.4-8.7# Fresh Water
1200'-7300':	8.8-9.2# Brine
7300'-8100':	8.8-9.2# Salt Gel/Starch
6. Run open-hole logs from 1200'-8100'. The log suite will include the following:
  - 1) GR-CNL-LDT-DLL-MSFL-CAL
  - 2) CBIL.A temperature survey will be run to determine the top of cement on each casing string where cement is not circulated.
7. Special Drilling Problems:
  - a) Severe deviation 4500-5500'.
  - b) Lost circulation 7000-8100'.
8. The anticipated starting date is 2-24-92 with a duration of approximately 21 days.

# PROPOSED WELL PLAN OUTLINE

WELL NAME **Dagger Draw No. 12**  
 LOCATION **Eddy County, New Mexico**

TYD IN 1000'	MD	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE	CASING SIZE DEPTH	FRAC GRAD	FORMATION PRESSURE GRADIENT	MUD		DAYS
									WEIGHT	TYPE	
0		Surface water 300'	Possible waterflow to 900'	0-1200' deviation survey each 250' not to exceed 3 degrees					8.33	Spud	
1			Known lost circ zone from 0-1100'	Install H2S monitor @ 1200'	14-3/4"	9-5/8" 1200' w/2000 psi "C"		<8.33			4
2		Glorieta 1989'	H2S possible to TD	Install a 2-man mudlogger 1200'-TD					8.8-9.2	Cut brine	6
3		Yaso 2145'	Deviations from 4-6 degrees likely from 3000-6000'	1200-3000' deviation survey each 250' not to exceed 5 degrees							8
4		Abo 4198'		3000'-TD deviation survey each 250' not to exceed 5 degrees					pH >10 to TD		10
5		Wolfcamp 5300'									13
6											17
7											20
8		Cisco 7600'	H2S possible in Cisco	Core from 7600-7850'					8.8-9.2	Salt gel & starch @ 7500' to TD	
8		Target TD 8100'		GR-CNL-LDT DLL-MSFL-CAL from 8100-1200'	8-3/4"	7" 8100' w/1800 psi "H" & "C" lite	>15	8.3-9.0			25
9				Image log from 8100-7600'							
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

DATE 1/10/92

APPROVED *Brian H. G.*  
 ENGINEER

DIVISION ENGINEERING MANAGER

\_\_\_\_\_  
 DIVISION DRILLING SUPERINTENDENT

\_\_\_\_\_  
 DIVISION EXPLORATION MANAGER

**SURFACE USE PLAN  
Conoco Inc.**

**Dagger Draw No. 12**

The following is the required information concerning the possible effect which the proposed 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 2130' FNL & 1830' FEL, Sec. 30, T-19S, R-25E, Eddy County, New Mexico.
- B. Exhibit "A" is a portion of a New Mexico road map showing existing roads. Directions to the location are as follows:  
From Artesia South on 285, turn right on County Road 23, go 8 miles West, Turn right on County Road 29, Go North 3 miles to location.
- C. Access roads are shown on Exhibit "B".
- D. No improvement or maintenance is anticipated for the existing roads.

2. Planned Access Roads

- A. No new access road required.
- B. No turnout will be required.
- C. No culverts, or fills will be required.
- D. No gates, cattleguards, or fences will be required.

3. Location of Existing Wells

See Exhibit "B.1"

4. Location of Proposed Facilities if Well is Productive

Existing producing facilities are shown on Exhibit "B".

5. Water Supply

Water will be trucked in.

6. Source of Construction Materials

Caliche from pit located in SW4 NW4 Sec. 18, T-19S, R-25E

7. **Methods of Handling Waste Disposal**

Waste Disposal: Well cuttings will be disposed in reserve pit. Barrel trash containers to be in accessible locations within drill site area during drilling and completion procedures. All detrimental waste will be hauled away, burned or buried with a minimum cover of 24" of dirt. See Exhibit "C" for location of pits. If well is productive, maintenance waste will be placed in special trash cans and hauled away periodically. Any produced water will be collected in tanks until hauled to an approved disposal system, or separate disposal applications will be submitted to survey for appropriate approval.

8. **Ancillary Facilities**

See Exhibit "B.2".

9. **Wellsite Layout**

See Exhibit "C". The reserve pit will be lined with plastic. The pad and pits are staked.

10. **Plans for Restoration of Surface**

Pits will be backfilled and leveled as soon as practical to original condition. Commencement of rehabilitation operations will immediately follow removal of drilling and completion equipment from location and rehabilitation of the surface is planned to be completed within 45 days from commencement.

11. **Surface Ownership**

Bureau of Land Management

12. **Other Information**

An archaeological survey will be conducted by Pecos Archaeological Consultants.

13. **Operator's Representative and Certification**

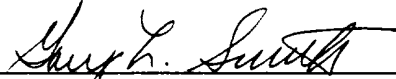
The person who can be contacted concerning compliance of this Surface Use Plan is:

**Gary L. Smith  
10 Desta Drive West  
Midland, Texas 79705  
(915)686-5471**

*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.*

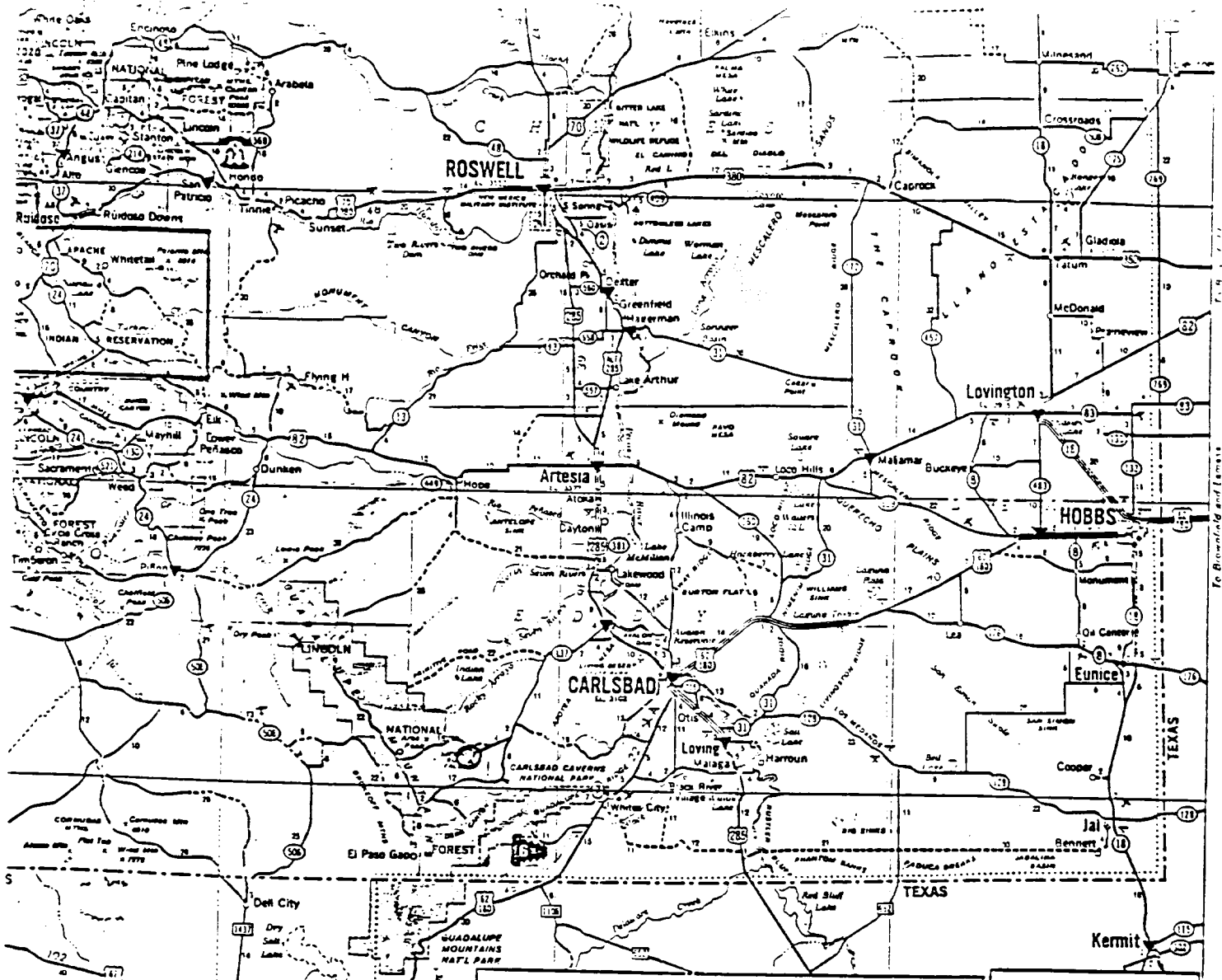
08 JAN 1992

Date



Gary L. Smith

Drilling Superintendent



**LOCATIONS WHERE CONOCO PRODUCTS ARE SOLD**

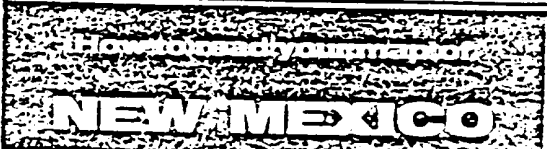
- ▼ Locations on Interstate Highways, toll roads or major limited access highways where CONOCO PRODUCTS are sold.
- ▼ Locations of CONOCO Travel Shoppes.
- ▼ Locations where CONOCO DEALERS provide Trailer Travelers with Sanitary Disposal Facilities. Look for this sign:

▼ Other CONOCO station locations.

**TOURAIDE ATTRACTIONS**

- HISTORICAL
- SCENIC
- GENERAL

Attraction points described on reverse side



**SCALE IN MILES AND KILOMETERS**

ONE INCH 22 MILES 0 5 10 20 30

ONE INCH 35 KILOMETERS 0 5 10 20 30 40

**HIGHWAY MARKERS**

INTERSTATE (40) UNITED STATES (65) STATE (41) TEXAS FARM OR RANCH (28)

**ROAD CLASSIFICATIONS**

CONTROLLED ACCESS DIVIDED HIGHWAYS (where interchange numbers are in circles)

OTHER DIVIDED HIGHWAYS

PRINCIPAL THROUGH HIGHWAYS

OTHER THROUGH HIGHWAYS

CONNECTING HIGHWAYS

LOCAL ROADS (in unnumbered areas, route numbers occur where there is a route number)

**MILEAGES** LONG DISTANCE MILEAGES SHOWN IN RED

MILEAGE BETWEEN TOWNS AND JUNCTIONS

MILEAGE BETWEEN DOTS

ONE MILE EQUALS 1.6 KILOMETERS ONE KILOMETER EQUALS 0.6 MILES

**SPECIAL FEATURES**

STATE PARKS

RECREATION AREAS

POINTS OF ENTRY

POINTS OF INTEREST

**POPULATION SYMBOLS**

- Sure Count
- Under 1,000
- 1,000 to 2,500
- 2,500 to 5,000
- 5,000 to 10,000
- 10,000 to 25,000
- 25,000 to 50,000
- 50,000 to 100,000
- 100,000 and over

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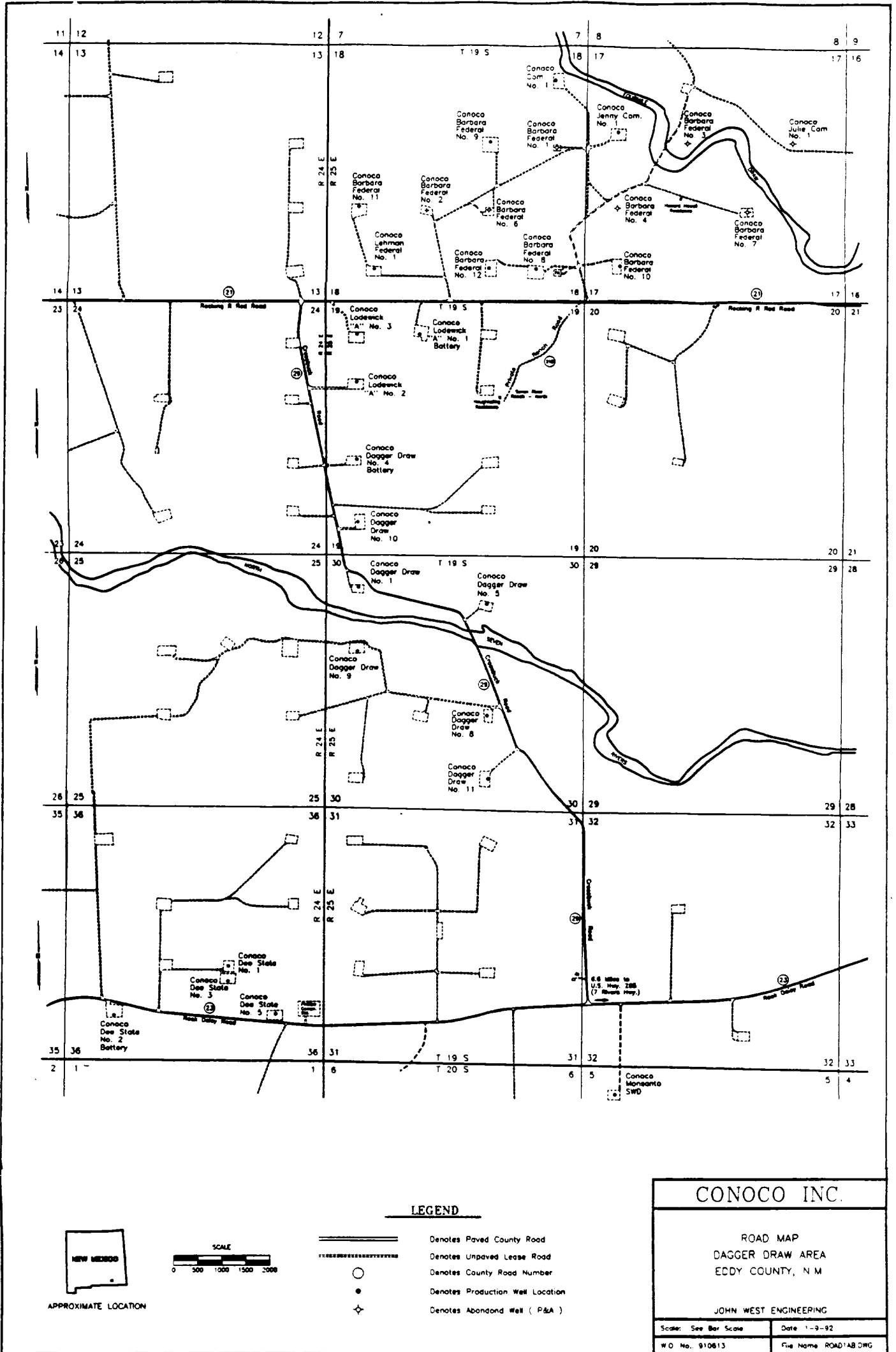
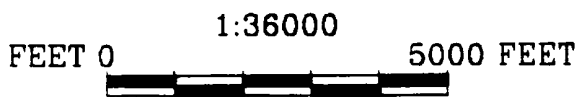
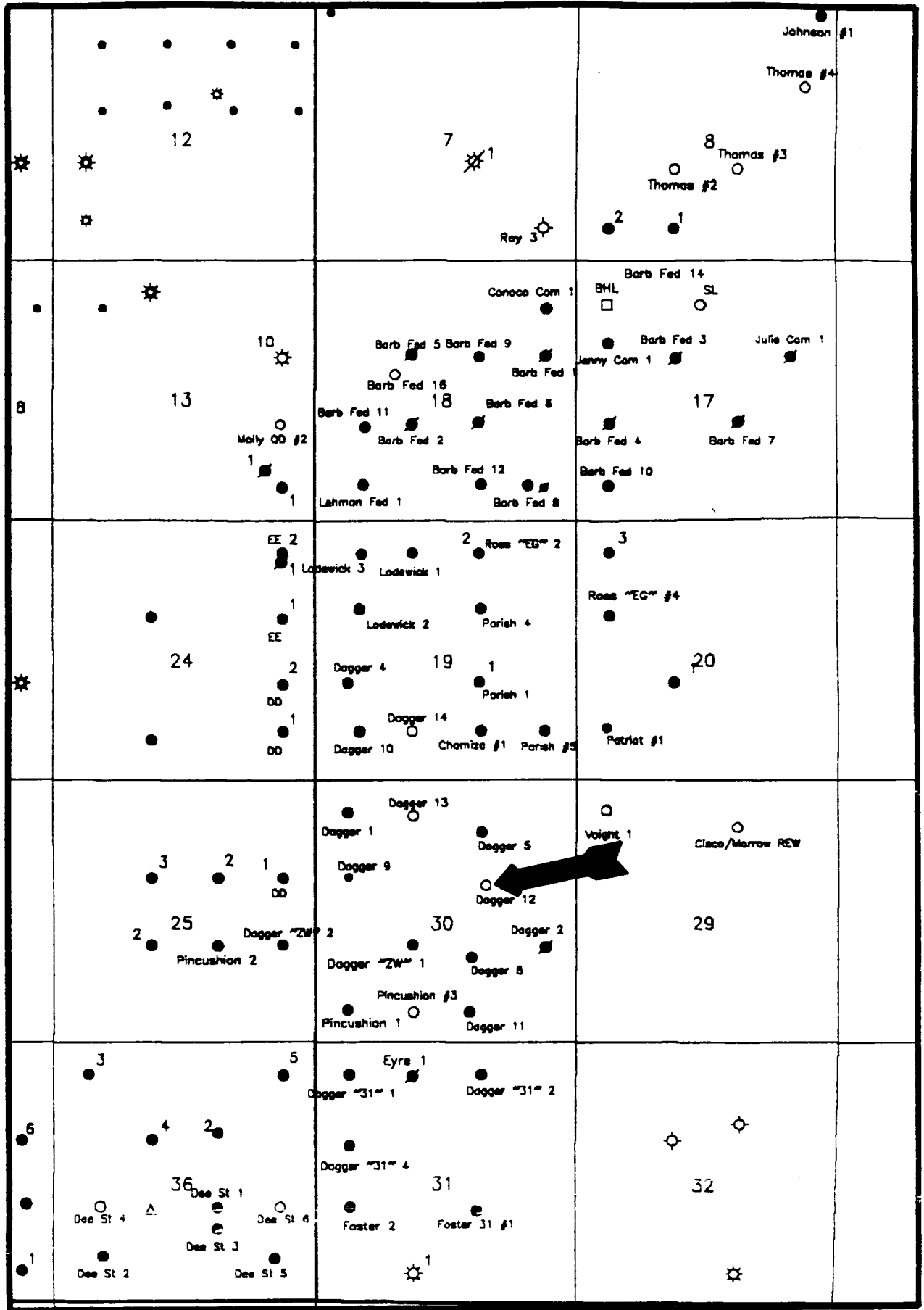


Exhibit B

R24E

R25E

T19S



○ PROPOSED WELL LOCATIONS

Exhibit B.1

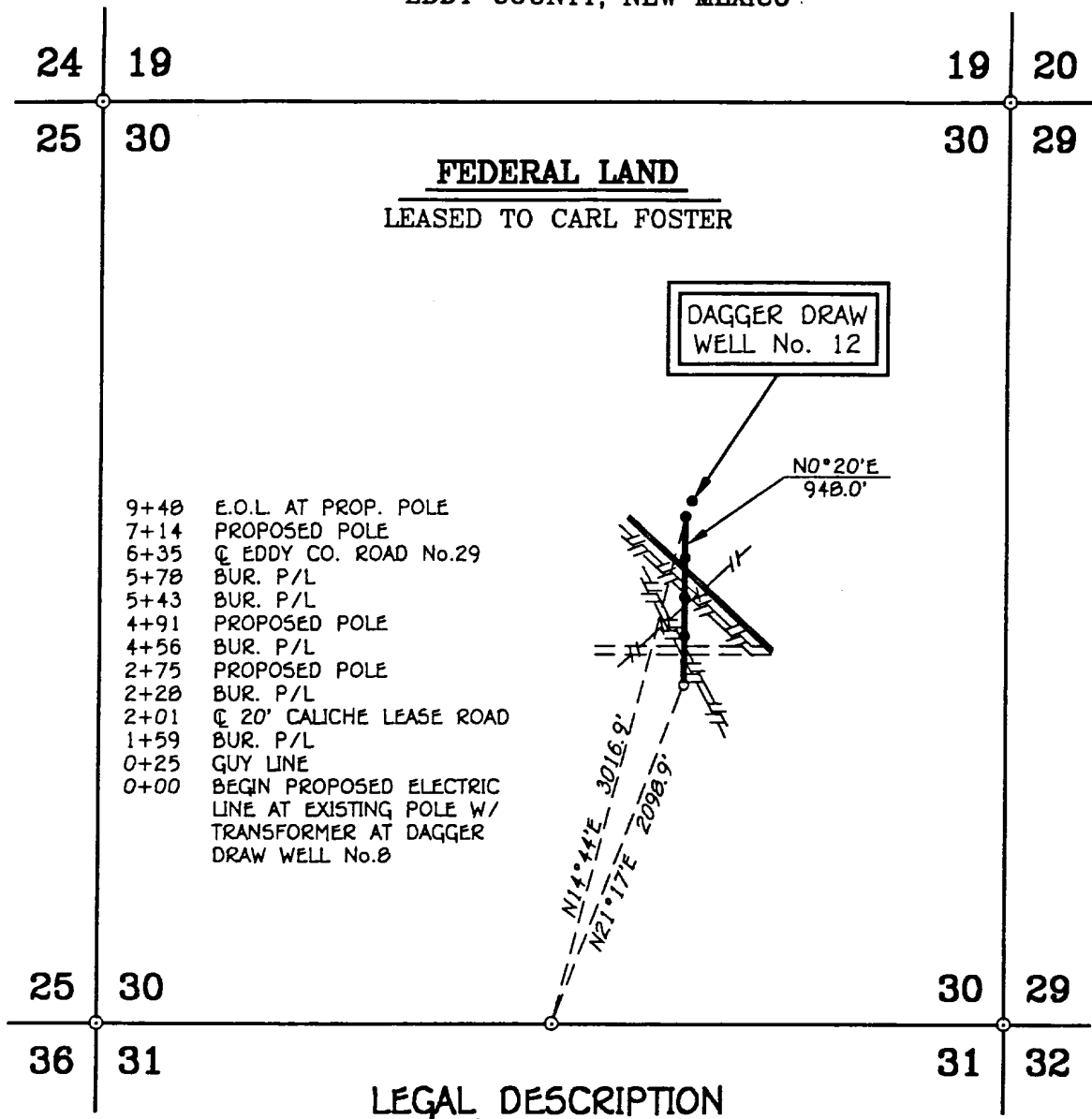
CONOCO

*EPNA-MIDLAND DIVISION*

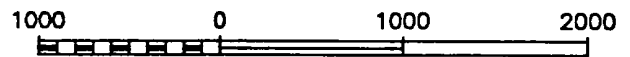
NORTH DAGGER DRAW  
EDDY COUNTY, NEW MEXICO  
BASEMAP

1" = 3000'    BILL HARDEE    2-JAN-82

SECTION 30, TOWNSHIP 19 SOUTH, RANGE 25 EAST, N.M.P.M.,  
EDDY COUNTY, NEW MEXICO.



I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY AND MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND SURVEYS AS SPECIFIED BY THIS STATE.



DAGGER DRAW No. 12 - ELECTRIC

**CONOCO INC.**

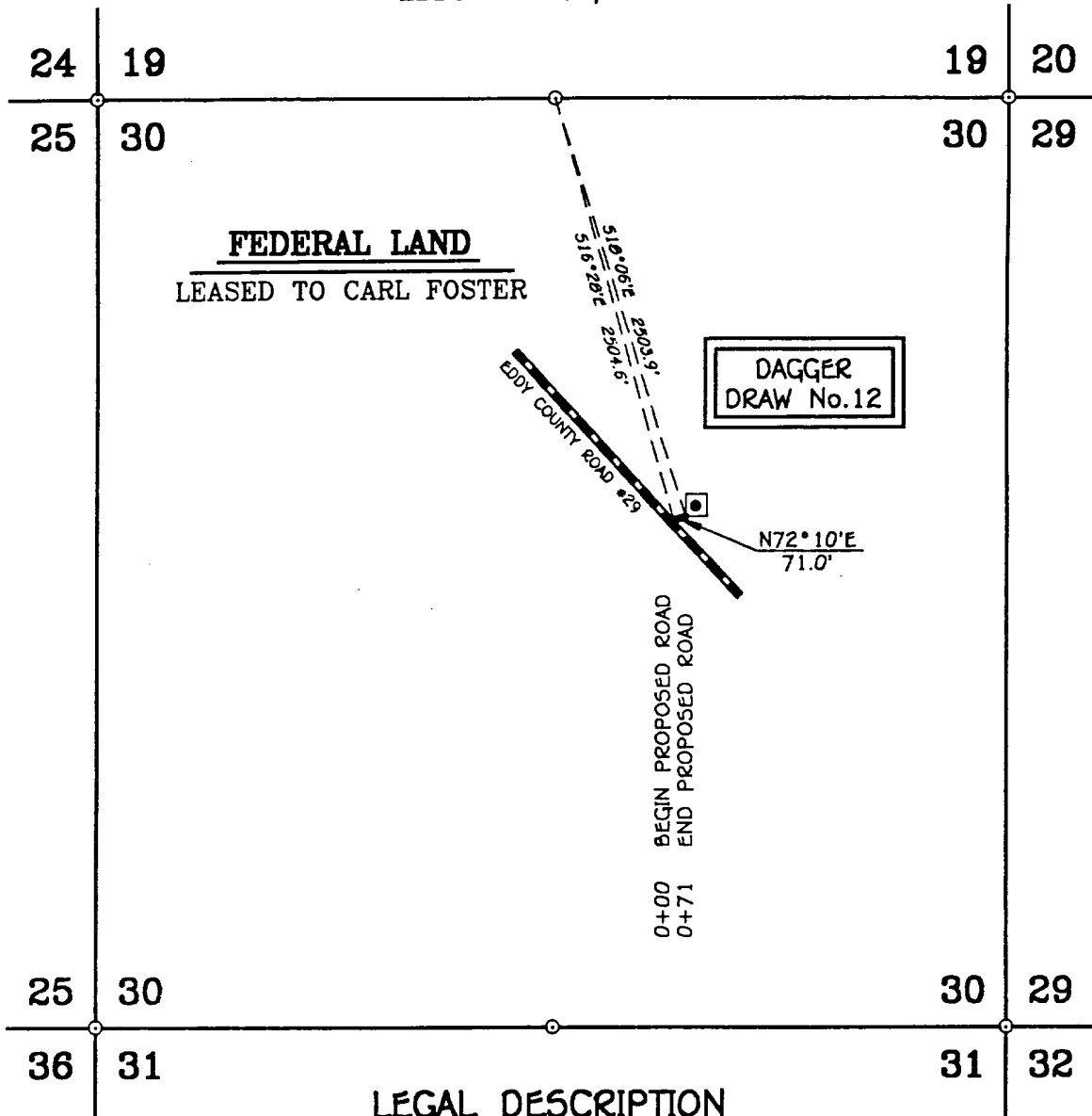
A PROPOSED ELECTRIC LINE  
CROSSING SECTION 30, TOWNSHIP 19  
SOUTH, RANGE 25 EAST, N.M.P.M.,  
EDDY COUNTY, NEW MEXICO

**JOHN W. WEST ENGINEERING COMPANY**  
CONSULTING ENGINEERS & SURVEYORS - HOBBS, NEW MEXICO

Survey Date: 4-3-1992	Sheet 1 of 1 Sheets
W.O. No. 92-11-0486	Drawn By: S. STANFIELD
Date: 4-15-1992	Disk: SS#11
Scale: 1" = 1000'	

*Ronald J. Eidson*  
JOHN W. WEST, N.M. P.E. & P.S. No. 676  
RONALD J. EIDSON, TEXAS P.L.S. No. 1138  
GARY L. JONES, N.M. L.S. No. 3239  
N.M. P.S. No. 1883  
N.M. P.S. No. 7977

SECTION 30, TOWNSHIP 19 SOUTH, RANGE 25 EAST, N.M.P.M.,  
EDDY COUNTY, NEW MEXICO



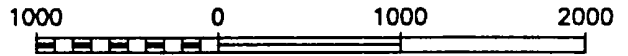
**FEDERAL LAND**  
LEASED TO CARL FOSTER

DAGGER  
DRAW No.12

LEGAL DESCRIPTION

A STRIP OF LAND 50.0 FEET WIDE AND 0.01 MILES IN LENGTH  
BEING 25.0 FEET LEFT AND 25.0 FEET RIGHT OF THE HEREON  
PLATTED SURVEY OF CENTERLINE.

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED  
FROM FIELD NOTES OF AN ACTUAL SURVEY AND  
MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND  
SURVEYS AS SPECIFIED BY THIS STATE.



DAGGER DRAW No.12 - ROAD

**CONOCO INC.**

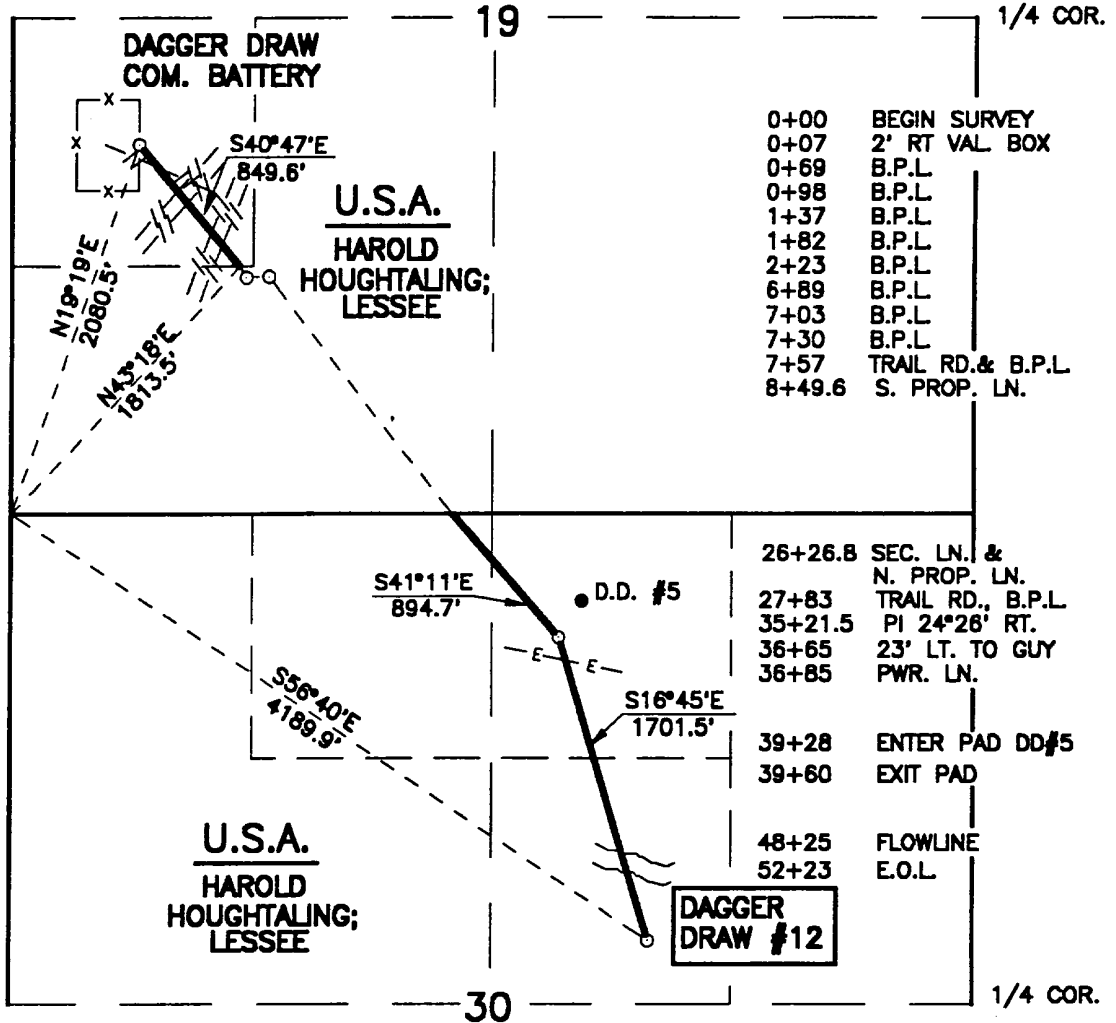
A PROPOSED ROAD  
CROSSING SECTION 30, TOWNSHIP 19  
SOUTH, RANGE 25 EAST, N.M.P.M.,  
EDDY COUNTY, NEW MEXICO

**JOHN W. WEST ENGINEERING COMPANY**  
CONSULTING ENGINEERS & SURVEYORS - HOBBS, NEW MEXICO

JOHN W. WEST, N.M. P.E. & P.S. No. 276  
TEXAS P.L.S. No. 1138  
RONALD J. EIDSON, N.M. P.E. & P.S. No. 3239  
TEXAS P.L.S. No. 1883  
GARY L. JONES, N.M. P.S. No. 7977

Survey Date: 4-3-1992	Sheet 1 of 1 Sheets
W.O. No. 92-11-0486	Drawn By: S. STANFIELD
Date: 4-15-1992	Disk: SS#11
Scale: 1" = 1000'	

SECTIONS 19&30, TOWNSHIP 19 SOUTH, RANGE 25 EAST, N.M.P.M.,  
 EDDY COUNTY, NEW MEXICO.



LEGAL DESCRIPTION

A STRIP OF LAND 50.0 FEET WIDE, 3,445.8 FEET OR 0.65 MILES IN LENGTH AND BEING 25.0 FEET LEFT AND RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.



DAGGER DRAW #12 - FLOWLINE

CONOCO INC.

A PROPOSED PIPELINE CROSSING FEDERAL LAND IN SECTIONS 19&30, TOWNSHIP 19 SOUTH, RANGE 25 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

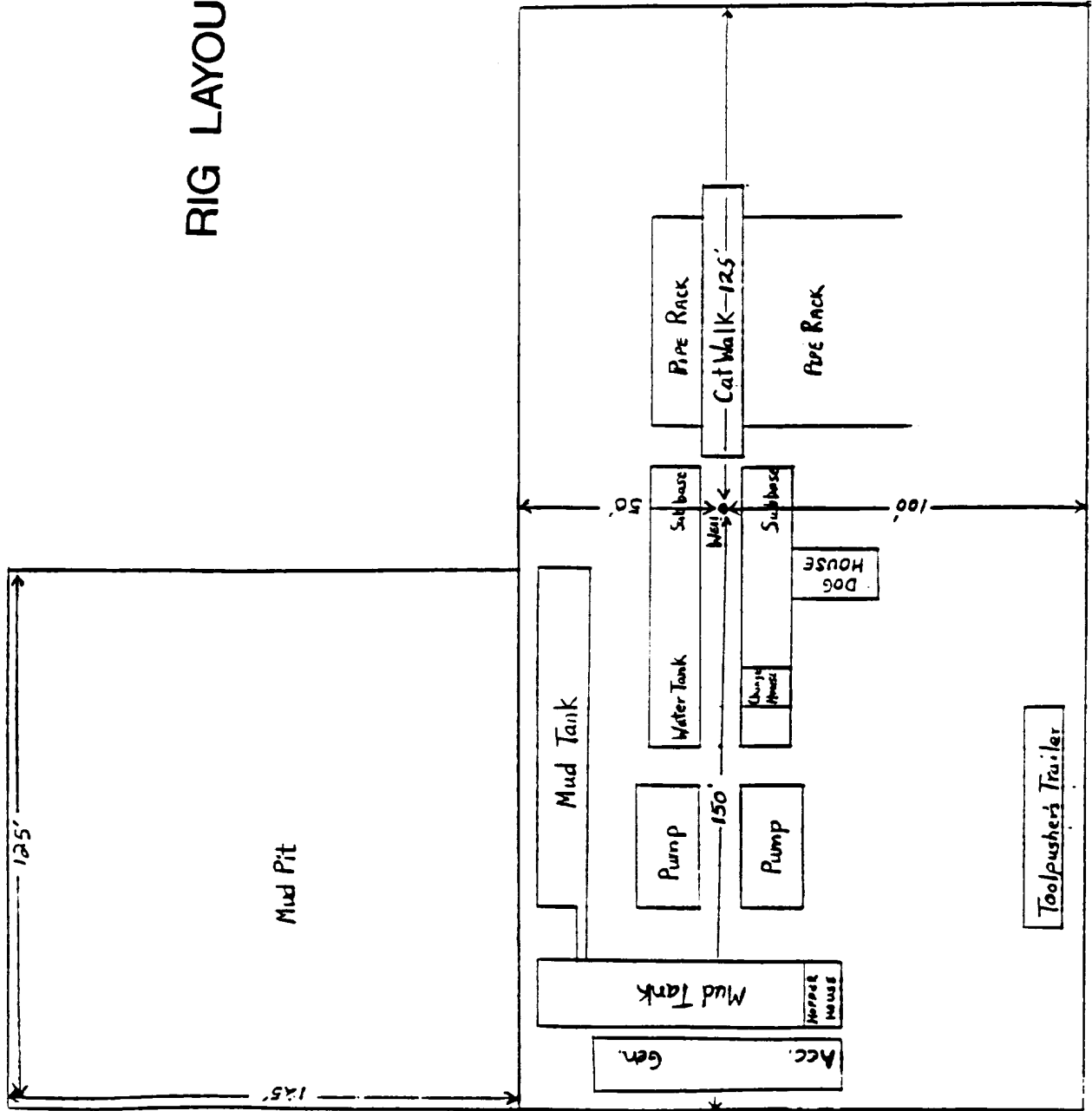
JOHN W. WEST ENGINEERING COMPANY  
 CONSULTING ENGINEERS & SURVEYORS - HOBBS, NEW MEXICO

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY AND MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND SURVEYS AS SPECIFIED BY THIS STATE.

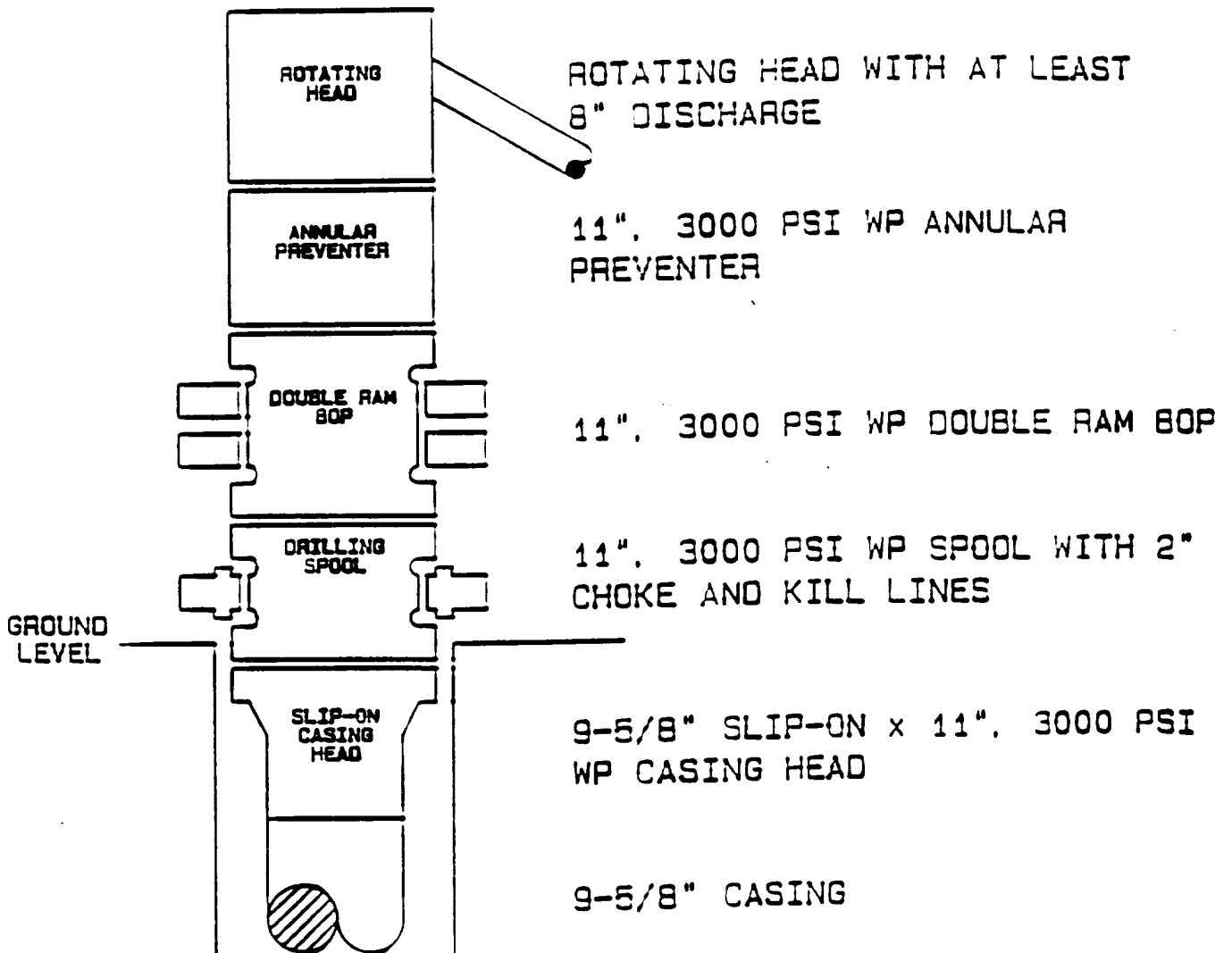
*Ronald J. Eidson*  
 JOHN W. WEST N.M. P.S. No. 676  
 TEXAS P.L.S. No. 1138  
 RONALD J. EIDSON N.M. P.S. No. 3239  
 TEXAS P.L.S. No. 1883  
 GARY L. JONES N.M. P.S. No. 7877

Survey Date: 03-24-92	Drawn By: NICHOLS
Approved By:	Sheet 1 of 1 Sheets
W. O. Number: 91-11-0027	File Name: 0027FL2
Date: 01-13-92	Disk: CONOCO
Scale: 1" = 1000'	

# RIG LAYOUT



# BOP SPECIFICATIONS



## 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 (H<sub>2</sub>S)
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 H<sub>2</sub>S on metal components in the system. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
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. H<sub>2</sub>S 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 H<sub>2</sub>S 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

Auxillary equipment added as appropriate includes:

- |                                     |            |
|-------------------------------------|------------|
| a. annular preventor                | <u>YES</u> |
| b. rotating head                    | <u>YES</u> |
| c. mud-gas separator                | <u>YES</u> |
| d. flare line and means of ignition | <u>NO</u>  |
| e. remote operated choke            | <u>NO</u>  |

### 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 H<sub>2</sub>S circulated to surface. Proper mud weight, safe drilling practices, and the use of H<sub>2</sub>S scavengers when appropriate will minimize hazards when penetrating H<sub>2</sub>S bearing zones.

### D. Drill Stem Test intervals are as follows:

DST No. 1	<u>NONE</u>	ft. to	<u>        </u>	ft.
DST No. 2	<u>        </u>	ft. to	<u>        </u>	ft.
DST No. 3	<u>        </u>	ft. to	<u>        </u>	ft.

Drill Stem Testing Safety Rules are attached.

## III. WELL SITE DIAGRAM

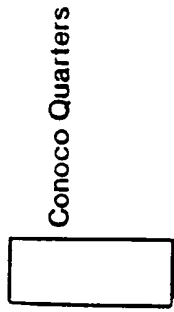
A complete well site diagram including the following information is attached.

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

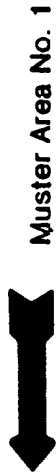


H2S Safety Contractor

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)



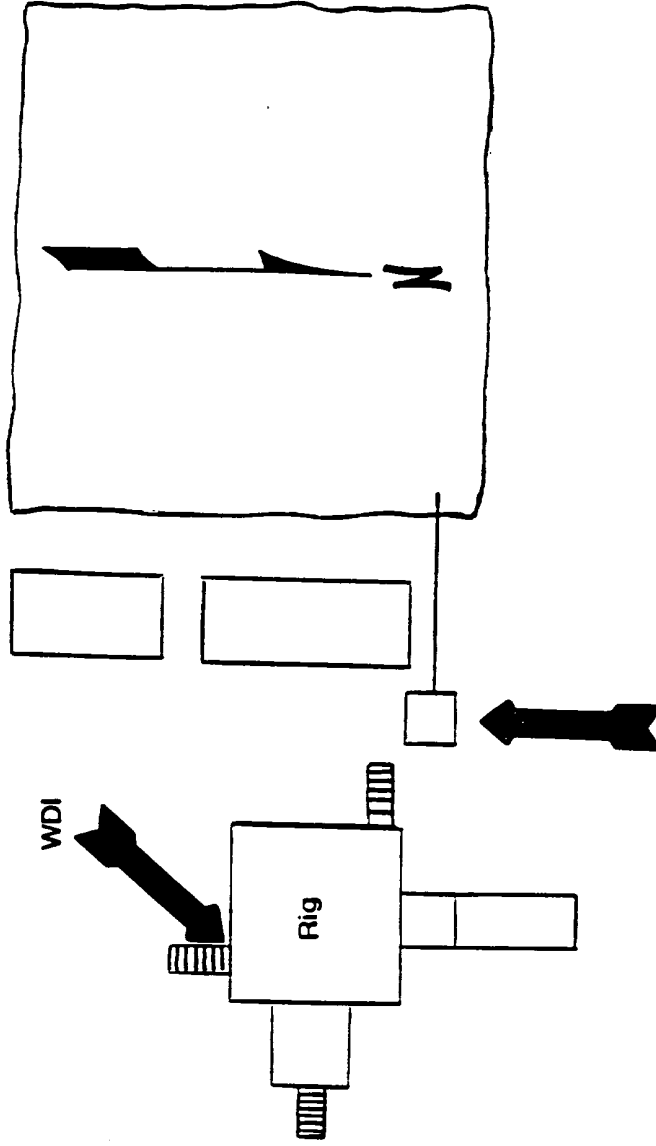
Conoco Quarters



Muster Area No. 1



Contractor Quarters



Choke Manifold



Muster Area No. 2

WDI