

Form 3160-3
(July 1989)
(formerly 9-331C)

NEW OIL CONS. COMMISSION
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONTACT RECEIVING
OFFICE NUMBER
OF COPIES REQUIRED
(Other instructions on
reverse side)

30-015-27179
BLM Roswell District
Modified Form No.
NM60-3160-2

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 ☐

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR
Conoco Inc.

3a. Area Code & Phone No.
915-886-6548

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

1980' FNL & 1980' FWL

At proposed prod. zone Cisco

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

10. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drg. unit line, if any)

18. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

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

19. PROPOSED DEPTH
8100

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3553.7 GR

22. APPROX. DATE WORK WILL START*

23.

PROPOSED CASING AND CEMENTING PROGRAM

HOLE SIZE	CASING SIZE	WEIGHT/FOOT	GRADE	THREAD TYPE	SETTING DEPTH	QUANTITY OF CEMENT
13-1/2"	9-5/8"	36W	K-55	LT&C	1200	CIRCULATE 2000 SX
8-3/4"	7"	26	K-55	LT&C	8100	Good above 1800 SX
						Wolfcamp

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

1. Well Location & Acreage Dedication Plat
2. Attachment to Form 3160-3
3. Proposed Well Plan Outline
4. Surface Use Plan
5. Exhibit A - New Mexico Road Map
6. Exhibit B.1 & B.2 - Lease road & well location maps
7. Exhibit C.1 - C.5 - Flowline, Powerline, & Road Plats
8. Exhibit D - Rig Layout Plat
9. BOP Specifications
10. H2S Drilling Operations Plan

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

TITLE

Sr. Conservation Coordinator

DATE

09-21-92

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

10-27-92

APPROVAL SUBJECT TO ANY:

GENERAL REQUIREMENTS AND

SPECIAL STIPULATIONS

ATTACHED

*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

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

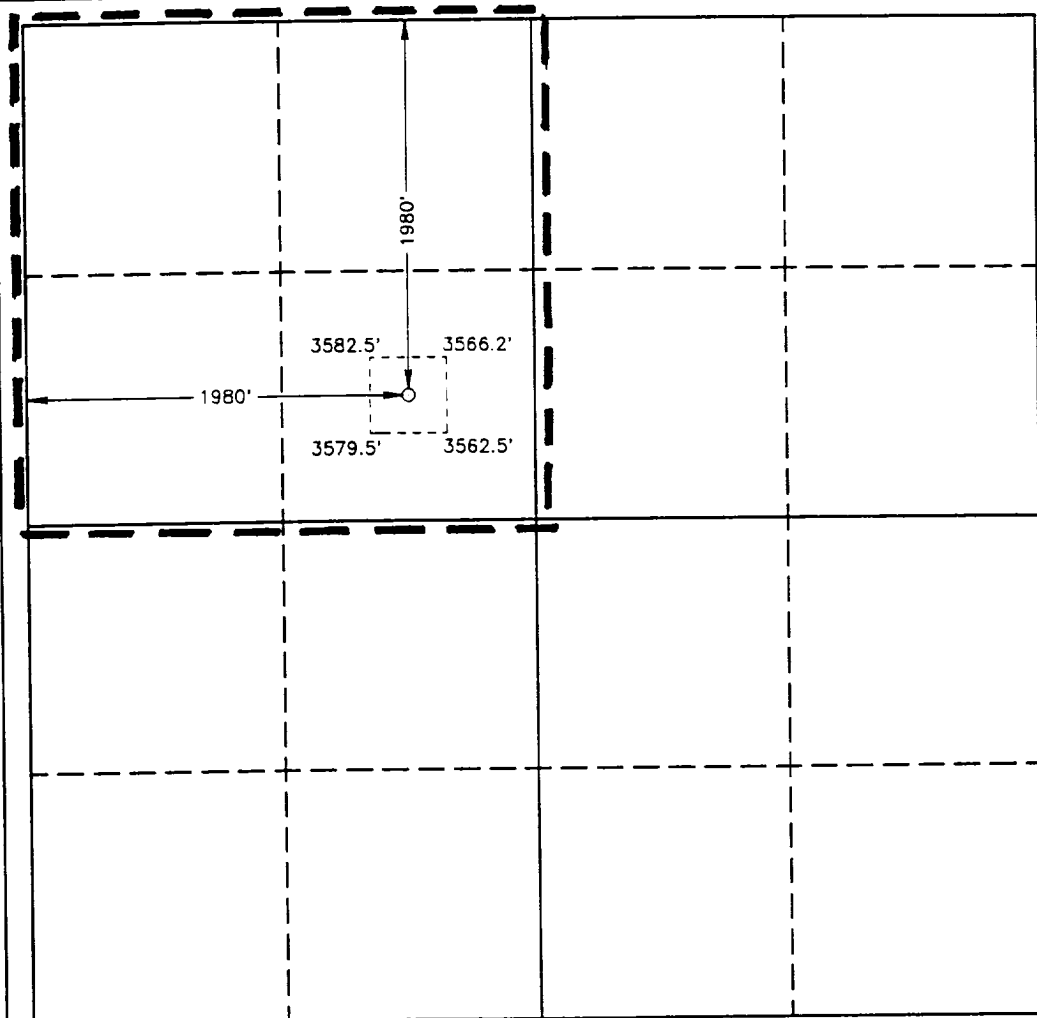
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator CONOCO INC.			Lease DAGGER DRAW		Well No. 13
Unit Letter F	Section 30	Township 19 SOUTH	Range 25 EAST	NMPM	County EDDY
Actual Footage Location of Well: 1980 feet from the NORTH line and 1980 feet from the WEST line					
Ground Level Elev. 3567.5'	Producing Formation Cisco		Pool North Dagger Draw		Dedicated Acreage: 160 Acres

- 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 the 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
9/21/92

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
AUGUST 28, 1992
Signature & Seal of
Professional Surveyor

[Signature]
Certificate No. **7077**
JOHN W. WEST, 878
RONALD J. EIDSON, 3239
SARV L. JONES, 7977
92-14-1270

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

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

Conoco Inc.

**Dagger Draw No. 13
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# Fresh Water
1200'-7300': 8.8-9.2# Brine
7300'-8100': 9.2# Salt Gel/Starch
6. Run open-hole logs from 8100'-1200'. 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 11-1-92 with a duration of approximately 18 days.

PROPOSED WELL PLAN OUTLINE

WELL NAME **DAGGER DRAW NO. 13**
 LOCATION **1980'FNL 1980'FWL SECT. 30 T-19S R-25E EDDY CO.**

TVI IN 1000'	MD	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE	CASING SIZE DEPTH	FRAC GRAD	FORMATION PRESSURE GRADIENT	WT	MUD TYPE	DAYS
0			LOST CIRCULATION		13-1/2"			BELOW NORMAL	8.4	FRESH	
1				MUD LOGGERS AND H2S EQUIPMENT ON @ 1200'		9-5/8" 1200' 36# K-55					3
2		GLORIETTA 1989' YESO 2145'	H2S IN YESO					9.0 PPG	8.8-9.2	C/BRINE	
3											
4		ABO 4198'			8-3/4"						
5		WOLFCAMP 5100'	POSSIBLE DEVIATION 4500'-5500'								
6											
7									9.2	C/BRINE STARCH	
8		CISCO 7600'				7" 8100' 26# K-55					16
9		TD 8100'		GR-CAL-DLL-MSFL GR-CAL-CNL-LDT CBIL							18
10											
11											
12											
13											
14											
15											
16											

DATE September 1992

APPROVED D.W. EUBANK
 ENGINEER

DIVISION ENGINEERING MANAGER

DIVISION DRILLING SUPERINTENDENT

DIVISION EXPLORATION MANAGER

SURFACE USE PLAN
Conoco Inc.

Dagger Draw No. 13

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 1980' FNL & 1980' FWL, Sec. 30, T-19S, R-25E, Lea County, New Mexico.
- B. Exhibit "A" is a portion of a New Mexico road map and Exhibit "B.1" a lease road map showing existing roads. Directions to the location are as follows: From Carlsbad - North on Hwy 285 approximately 20 miles. Turn West on Rock Daisy road 6.6 miles. North on Crossbuck road 1 3/4 miles. West on lease road 1/4 miles. North 1/4 miles to location.
- C. No improvement or maintenance is anticipated for the existing roads.

2. Planned Access Roads

- A. 200 feet of new access road will be 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.2"

4. Location of Proposed Facilities if Well is Productive

Existing producing facilities located in the NW4 SW4 Sec. 19, T-19S, R-25E (Conoco's Dagger Draw Battery) will be used for this well.

5. Water Supply

Water will be trucked in.

6. Source of Construction Materials

Caliche from pit located in the SW/4 NE/4, Sec. 18, T-19S, R-24E

Burial of refuse
on-site is prohibited.

SJS

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 "D" 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 Exhibits "C.1", "C.2", "C.3", "C.4", and "C.5" for flowline, power line, and road plats.

9. Wellsite Layout

See Exhibit "D". 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

NE/4 SW/4 Sec. 30
E/2 NW/4 Sec. 30
NW/4 SE/4 Sec. 30
SE/4 SW/4 Sec. 19
NW/4 SW/4 Sec. 19

Federal Land (leased to Houghtaling)
Federal Land (leased to Houghtaling)
Federal Land (leased to Houghtaling)
S. P. Yates
Ownbey, EtAl

12. Other Information

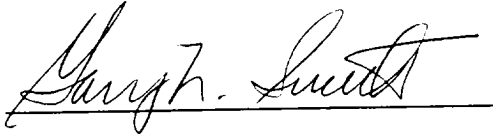
Archaeological survey will be done on Federal Land in Sec. 30.

13. Operator's Representative and Certification

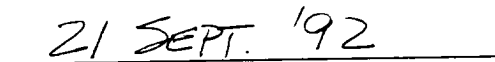
The person who can be contacted concerning compliance of this Surface Use Plan is:

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.

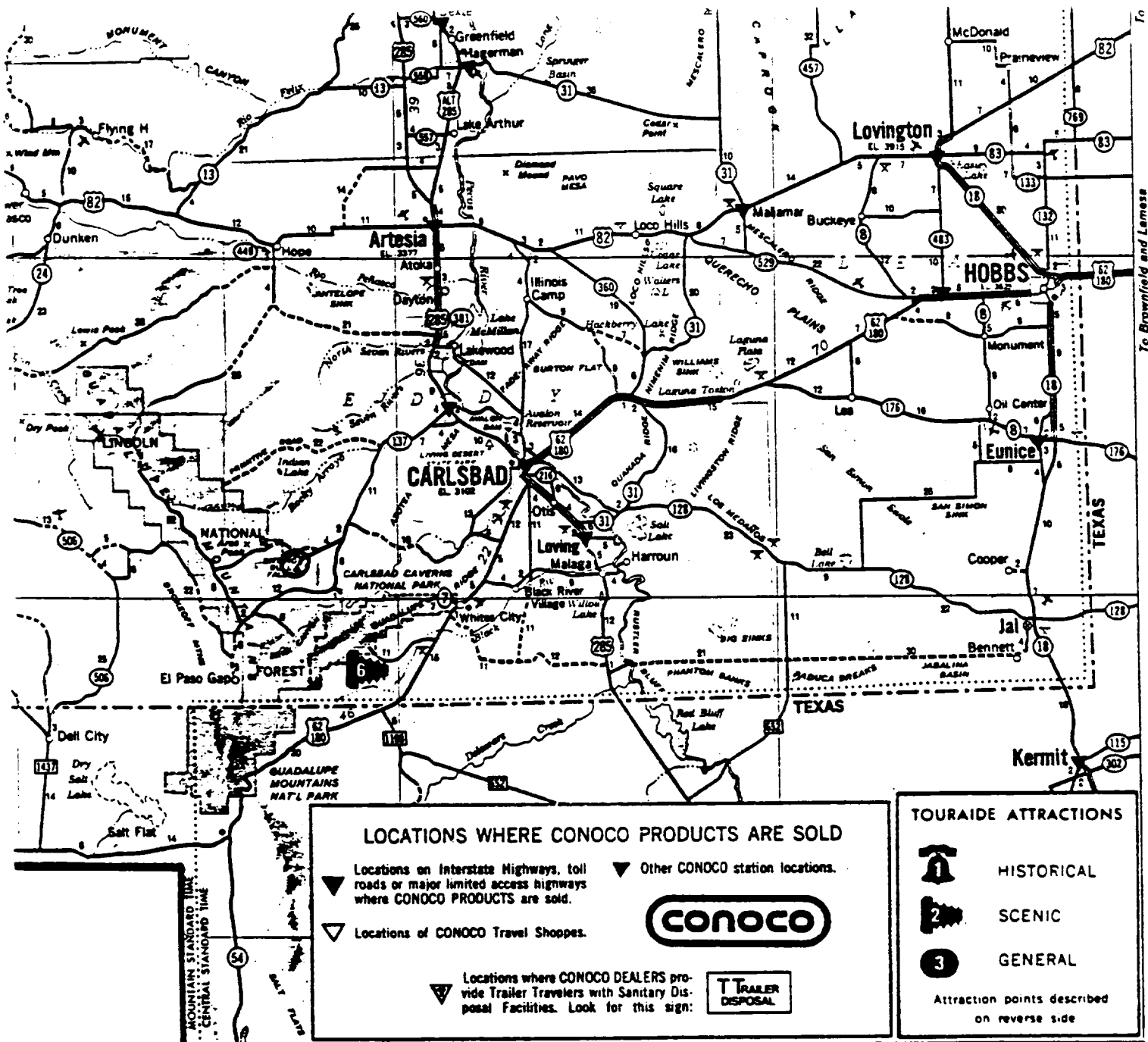
A handwritten signature in cursive script, reading "Gary L. Smith", written over a horizontal line.

Gary L. Smith,
Drilling Superintendent

A handwritten date "21 SEPT. '92" written in a simple, blocky font over a horizontal line.

Date

JWH/tm



How to read your map of NEW MEXICO

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 (66) STATE (41) TEXAS FARM OR RANCH (308)

ROAD CLASSIFICATIONS

CONTROLLED ACCESS DIVIDED HIGHWAYS
Interchange numbers are indicated.

OTHER DIVIDED HIGHWAYS

PRINCIPAL THROUGH HIGHWAYS

OTHER THROUGH HIGHWAYS

CONNECTING HIGHWAYS

LOCAL ROADS in unfamiliar areas require local knowledge before using these roads.

LEGEND

- Divided
- Undivided
- Interchanges
- Paved
- Gravel
- Dirt

MILEAGES

MILEAGE BETWEEN TOWNS AND JUNCTIONS 3/4

MILEAGE BETWEEN DOTS 0.5

ONE MILE EQUALS 1.6 KILOMETERS

ONE KILOMETER EQUALS .6 MILES

SPECIAL FEATURES

STATE PARKS
With Campsites Without Campsites

RECREATION AREAS
With Campsites Without Campsites

PORTS OF ENTRY
Open 24 Hours Inquire Locally

POINTS OF INTEREST

POPULATION SYMBOLS

- State Capital
- 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

SCHEDULED AIRLINE STOPS

MILITARY AIRPORTS

OTHER AIRPORTS

TOURIST INFORMATION

SKI AREAS

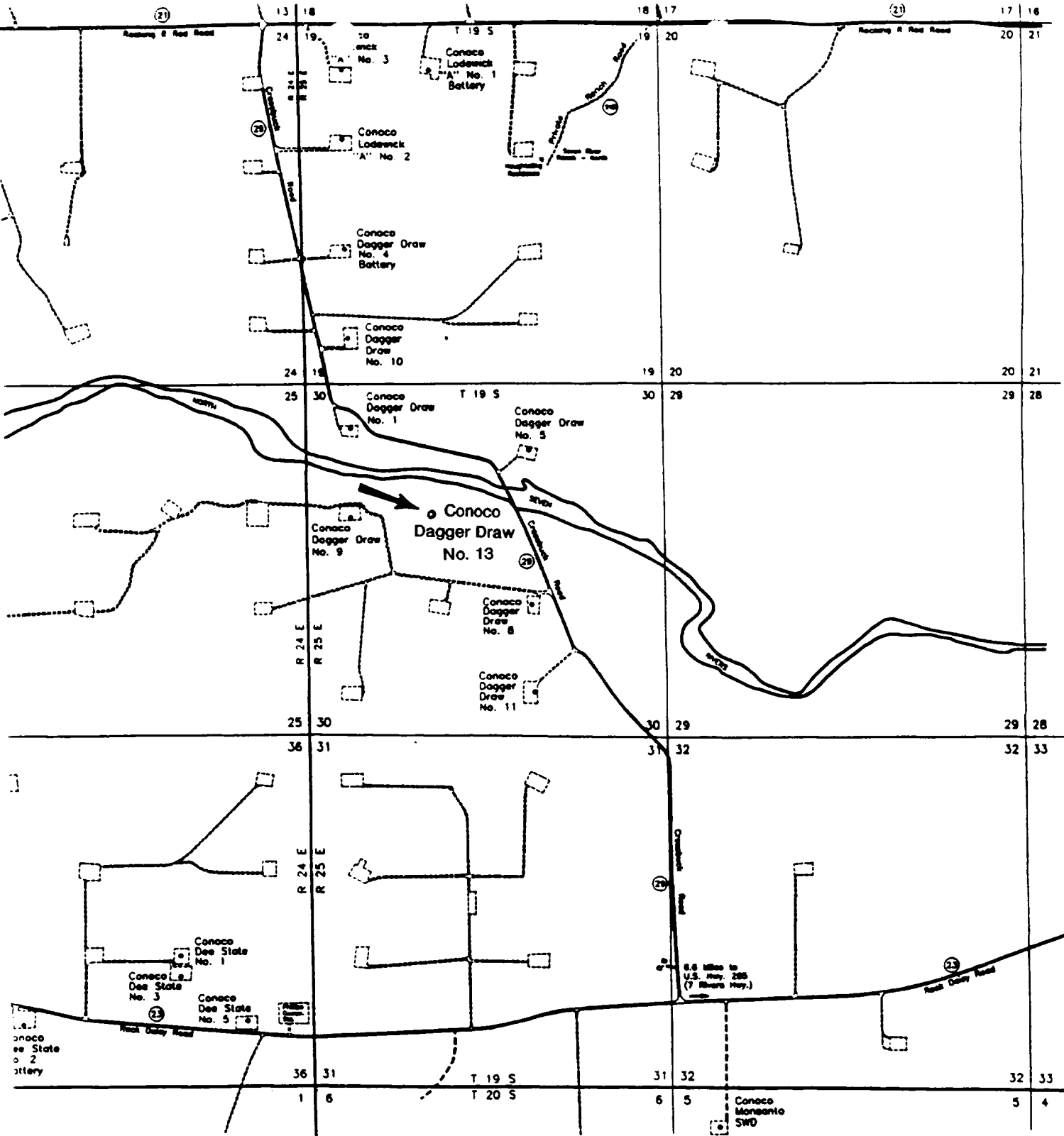
SELECTED REST AREAS

BOAT RAMPS

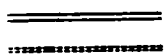
TIME ZONE BOUNDARY

THE W. M. GOSHA COMPANY
BOX 6227 SAN JOSE CALIF 95190
A Subsidiary of The Times Mirror Company

ALL RIGHTS RESERVED



LEGEND



- Denotes Paved County Road
- Denotes Unpaved Lease Road
- Denotes County Road Number
- Denotes Production Well Location
- Denotes Abandoned Well (P&A)

CONOCO INC.

ROAD MAP
DAGGER DRAW AREA
EDDY COUNTY, N.M.

JOHN WEST ENGINEERING

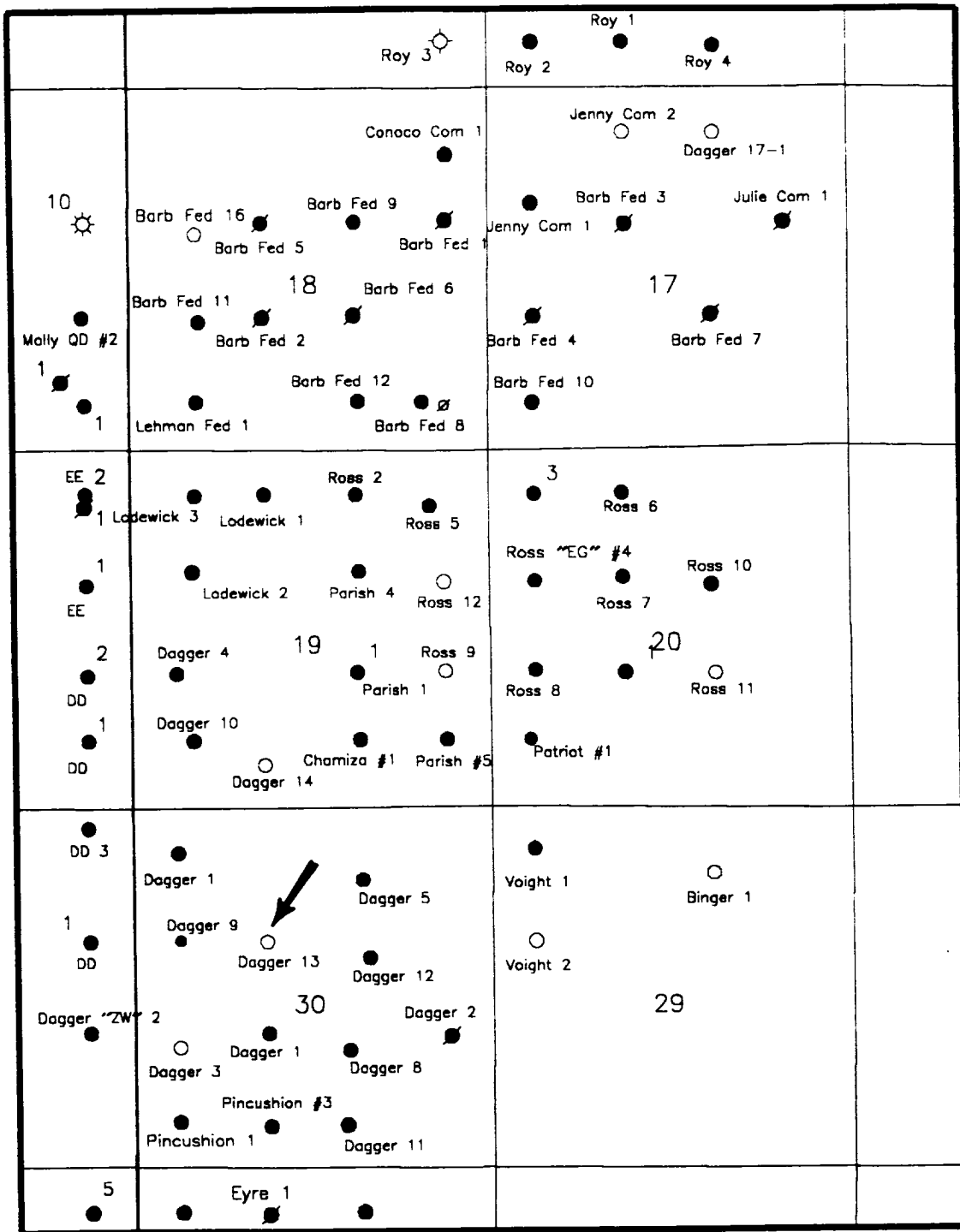
Scale: See Bar Scale

Date: 1-9-92

EXHIBIT B.1

R25E

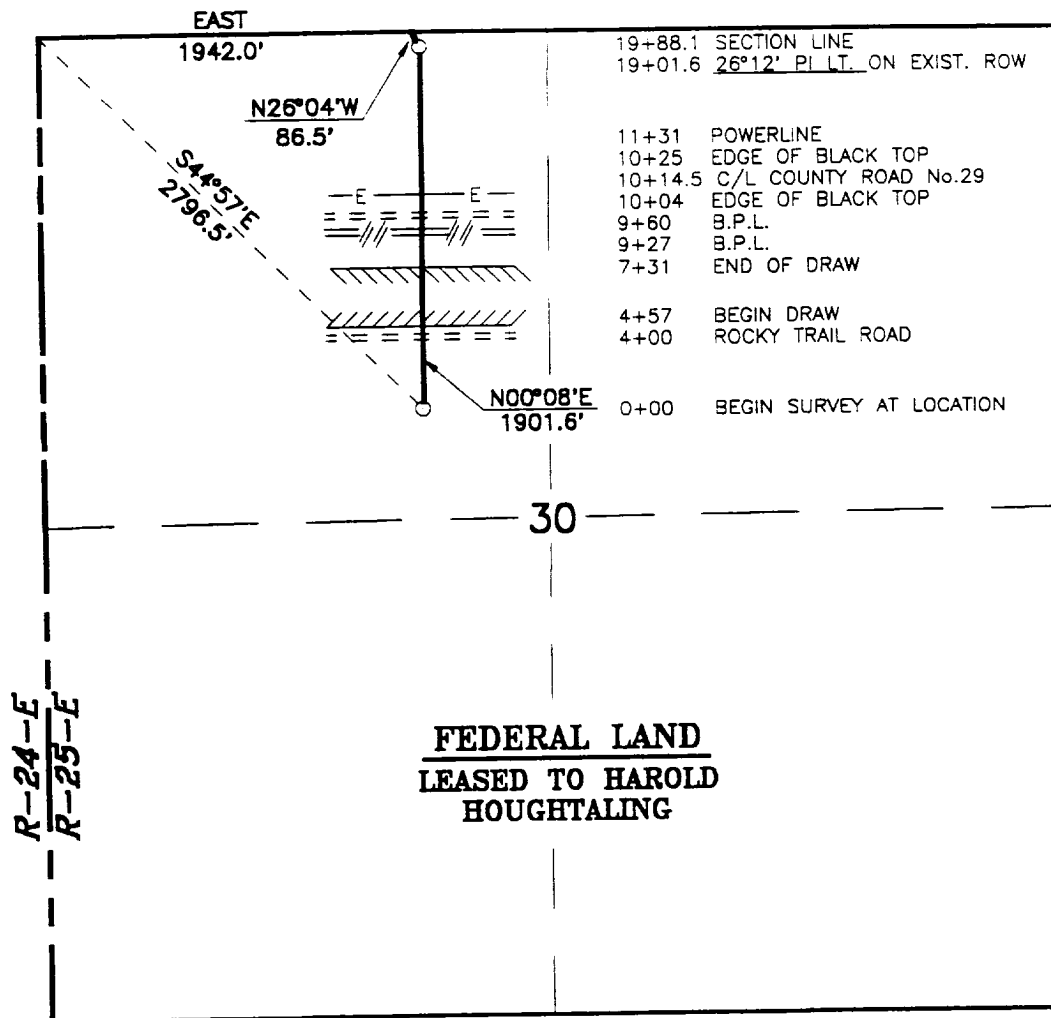
T19S



CONOCO MIDLAND DIVISION		
NORTH DAGGER DRAW		
EDDY COUNTY, NEW MEXICO		
BASEMAP		
SCALE 1" = 2000'	HARDIE	DATE 10-SEP-82

EXHIBIT B.2

SECTION 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, 1988.1 FEET OR 0.38 MILES IN LENGTH AND BEING 25.0 FEET LEFT AND RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

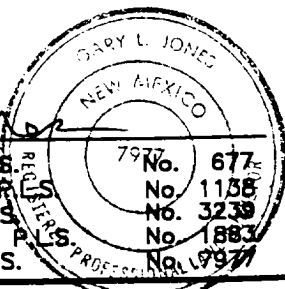
1000 0 1000 2000 FEET

DAGGER DRAW No. 13 - FLOWLINE

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.

JOHN W. WEST
RONALD J. EIDSON
GARY L. JONES

N.M. P.S.
TEXAS P.L.S.
N.M. P.S.
TEXAS P.L.S.
N.M. P.S.



CONOCO INC.

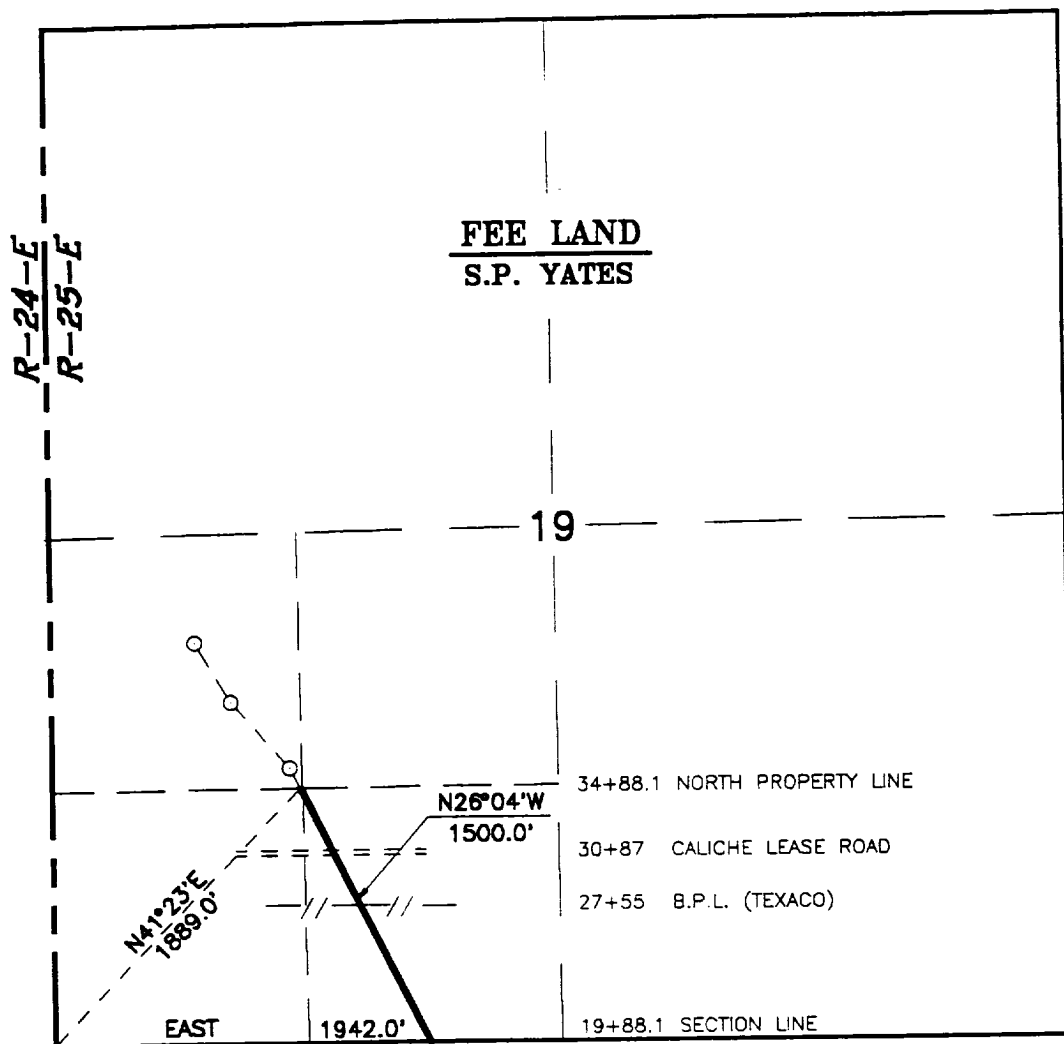
A PROPOSED PIPELINE CROSSING FEDERAL LAND IN SECTION 30, TOWNSHIP 19 SOUTH, RANGE 25 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

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

Survey Date: 09-04-92 Sheet 1 of 1 Sheets
W.O. Number: 92-11-1270 Drawn By: S.C. NICHOLS
Date: 09-09-92 1270BPL1 Scale: 1" = 1000'

EXHIBIT C.1

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



LEGAL DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE, LOCATED IN SECTION 19, TOWNSHIP 19 SOUTH, RANGE 25 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND RIGHT OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY.

BEGINNING AT A POINT BEING EAST, 1942.0 FEET FROM THE SOUTHWEST CORNER OF SAID SECTION 19. THENCE N.26°04'W., 1500.0 FEET TO A POINT ON THE NORTH PROPERTY LINE WHICH LIES N.41°23'E., 1889.0 FEET FROM THE SOUTHWEST CORNER OF SAID SECTION 19. SAID STRIP OF LAND BEING 1500.0 FEET OR 90.91 RODS IN LENGTH AND CONTAINING 1.03 ACRES, MORE OR LESS.

1000 0 1000 2000 FEET

DAGGER DRAW No. 13 - FLOWLINE

CONOCO INC.

A PROPOSED PIPELINE CROSSING FEDERAL LAND IN SECTION 19, 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: 09-04-92	Sheet 1 of 1 Sheets
W.O. Number: 92-11-1270	Drawn By: S.C. NICHOLS
Date: 09-09-92	1270BPL2 Scale: 1" = 1000'

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.

JOHN W. WEST

RONALD J. EIDSON

GARY L. JONES

N.M. P.S.
TEXAS P.S.
N.M. P.S.
TEXAS P.S.
N.M. P.S.

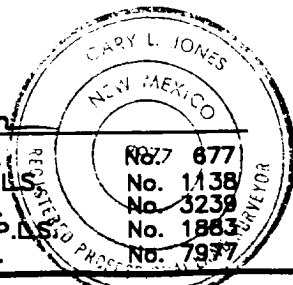
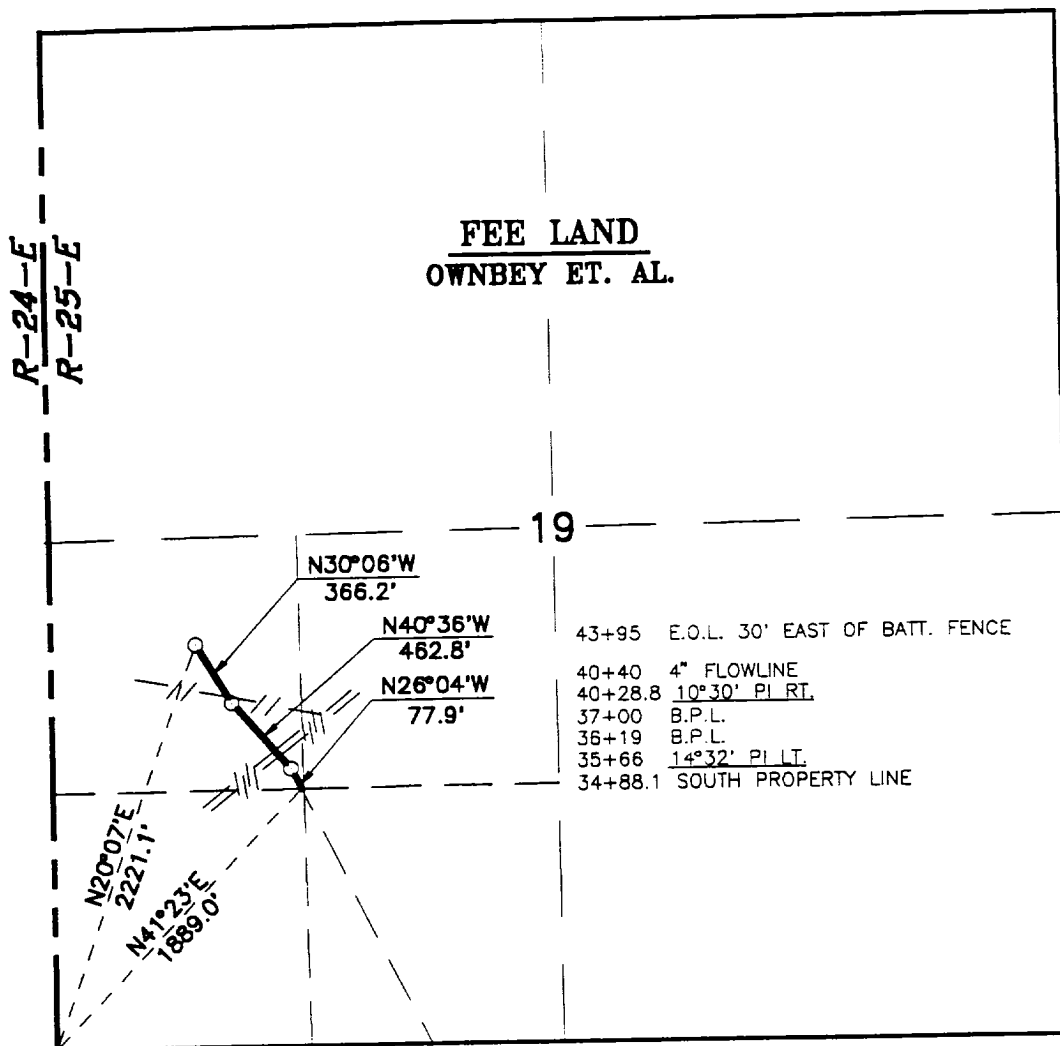


EXHIBIT C.2

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



LEGAL DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE, LOCATED IN SECTION 19, TOWNSHIP 19 SOUTH, RANGE 25 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND RIGHT OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY.

BEGINNING AT A POINT BEING N.41°23'E., 1889.0 FEET FROM THE SOUTHWEST CORNER OF SAID SECTION 19. THENCE N.26°04'W., 77.9 FEET; THENCE N.40°36'W., 462.8 FEET; THENCE N.30°06'W., 366.2 FEET TO THE END OF THIS LINE WHICH LIES N.20°07'E., 2221.1 FEET FROM THE SOUTHWEST CORNER OF SAID SECTION 19. SAID STRIP OF LAND BEING 906.9 FEET OR 54.96 RODS IN LENGTH AND CONTAINING 0.63 ACRES, MORE OR LESS.

1000 0 1000 2000 FEET

DAGGER DRAW No. 13 - FLOWLINE

CONOCO INC.

A PROPOSED PIPELINE CROSSING FEDERAL LAND IN SECTION 19, 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: 09-04-92	Sheet 1 of 1 Sheets
W.O. Number: 92-11-1270	Drawn By: S.C. NICHOLS
Date: 09-09-92	1270BPL3 Scale: 1" = 1000'

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.

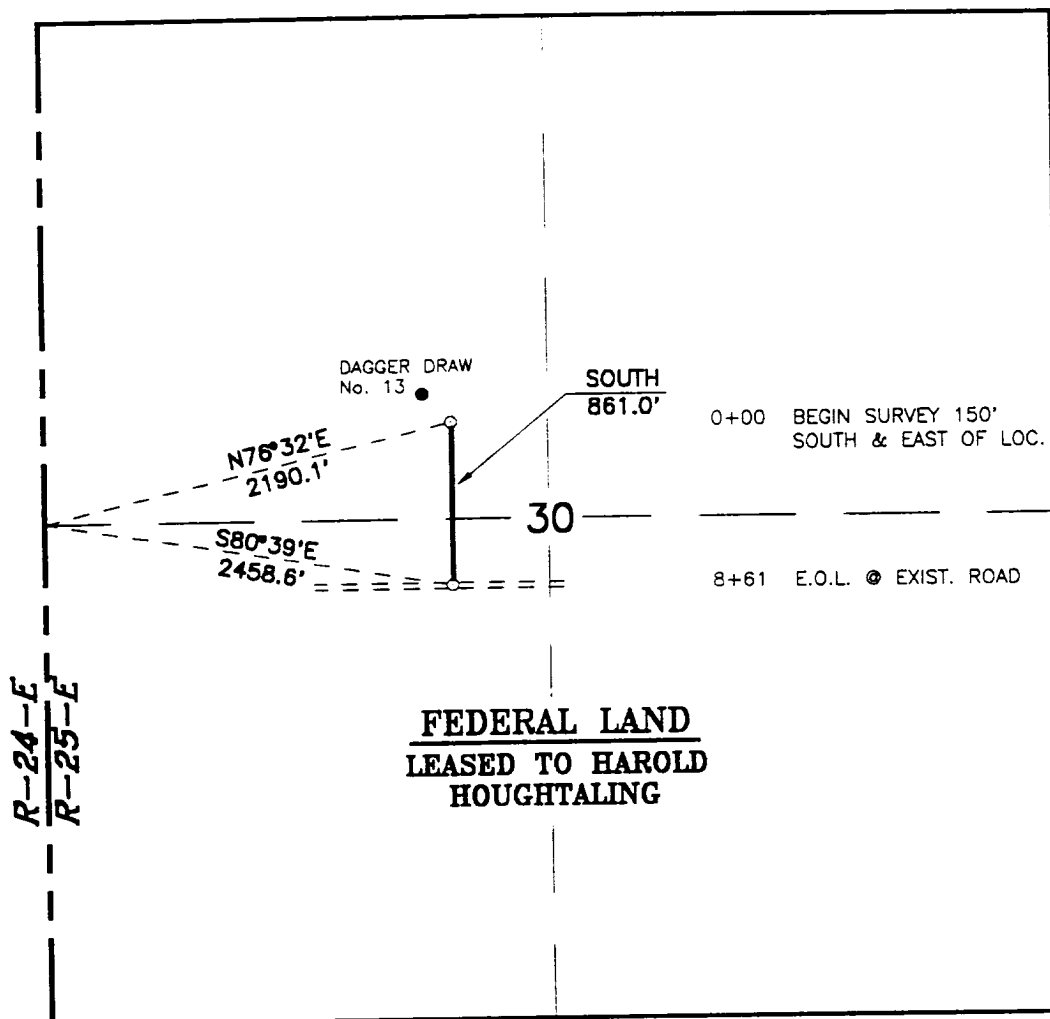
JOHN W. WEST
RONALD J. EIDSON
GARY L. JONES

N.M. P.S.
TEXAS P.L.S.
N.M. P.S.
TEXAS P.L.S.
N.M. P.S.

No. 577
No. 1178
No. 1209
No. 1283
No. 7977

EXHIBIT C-3

SECTION 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, 861.0 FEET OR 0.16 MILES IN LENGTH AND BEING 25.0 FEET LEFT AND RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

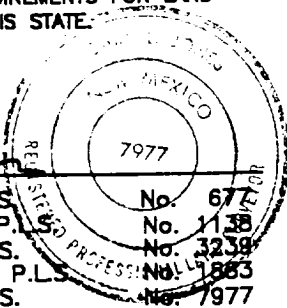


DAGGER DRAW No. 13 - ROAD

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.

JOHN W. WEST
RONALD J. EIDSON
GARY L. JONES

N.M. P.S.
TEXAS P.L.S.
N.M. P.S.
TEXAS P.L.S.
N.M. P.S.



CONOCO INC.

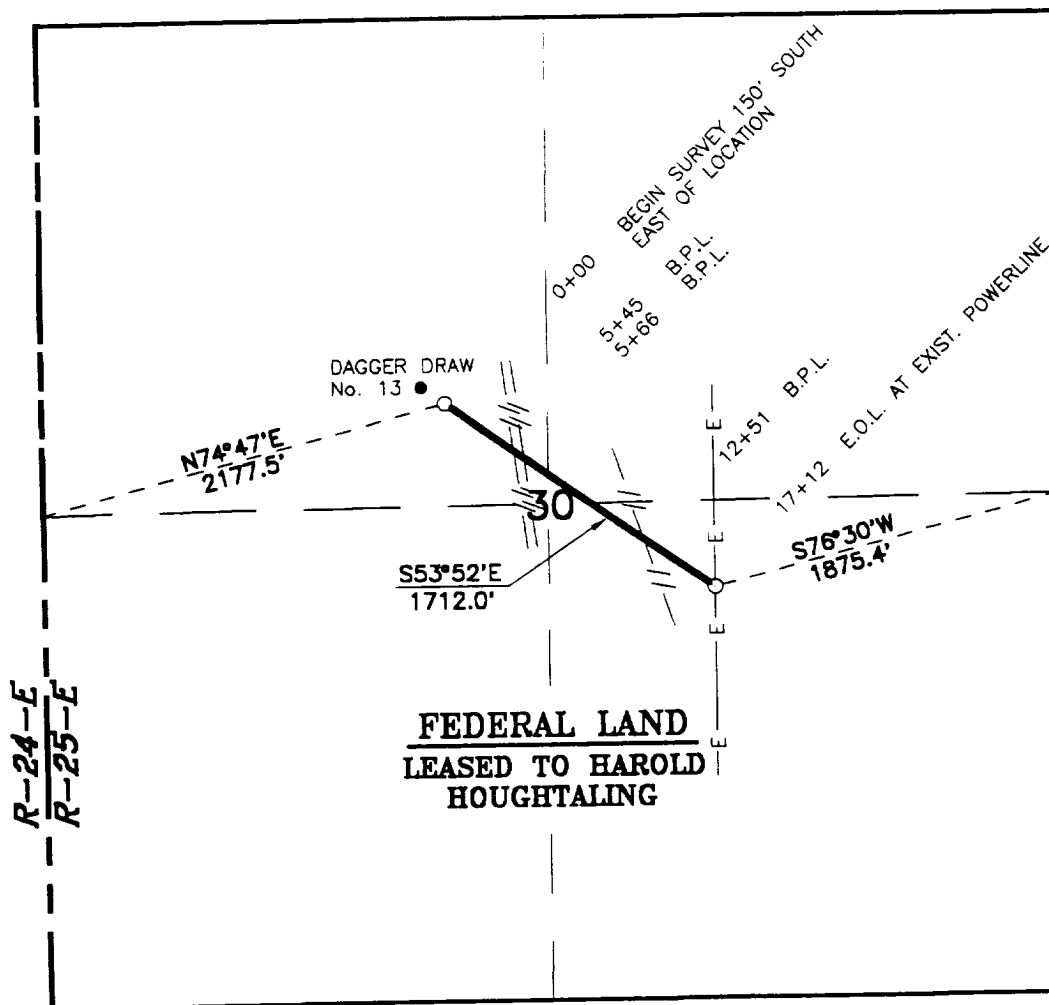
A PROPOSED ROAD CROSSING FEDERAL LAND IN SECTION 30, TOWNSHIP 19 SOUTH, RANGE 25 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

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

Survey Date: 09-08-92	Sheet 1 of 1 Sheets
W.O. Number: 92-11-1270	Drawn By: S.C. NICHOLS
Date: 09-09-92	1270ROAD Scale: 1" = 1000'

EXHIBIT C.4

SECTION 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, 1712.0 FEET OR 0.32 MILES IN LENGTH AND BEING 25.0 FEET LEFT AND RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.



DAGGER DRAW No. 13 - ELECTRIC LINE

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.

JOHN W. WEST
 RONALD J. EIDSON
 GARY L. JONES

N.M. P.S.
 TEXAS P.L.S.
 N.M. P.S.
 TEXAS P.L.S.
 N.M. P.S.

No. 677
 No. 138
 No. 2239
 No. 1883
 No. 7977

Professional Seal: GARY L. JONES, NEW MEXICO, 7977

CONOCO INC.

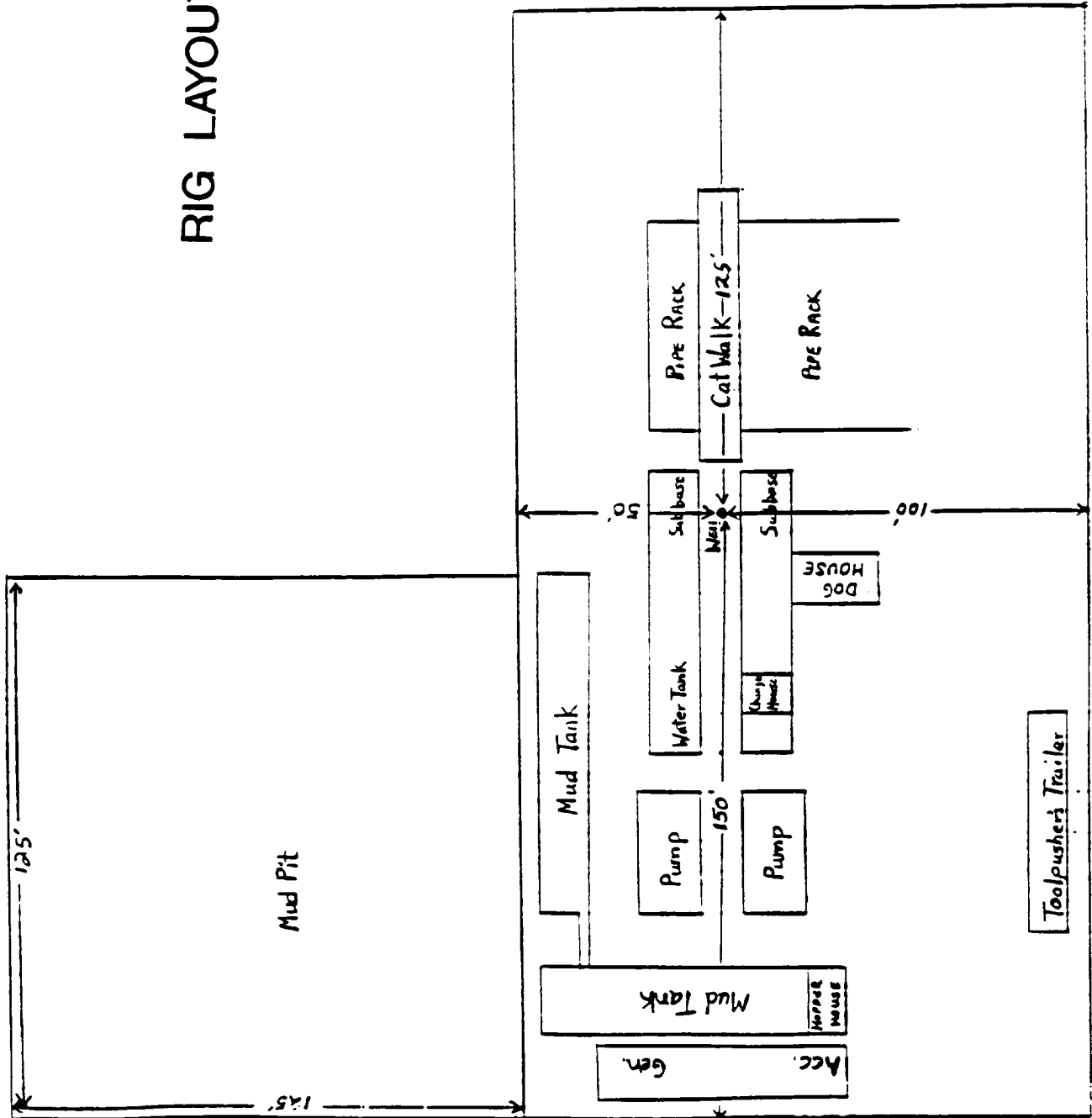
A PROPOSED ELECTRIC LINE CROSSING FEDERAL LAND IN SECTION 30, TOWNSHIP 19 SOUTH, RANGE 25 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

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

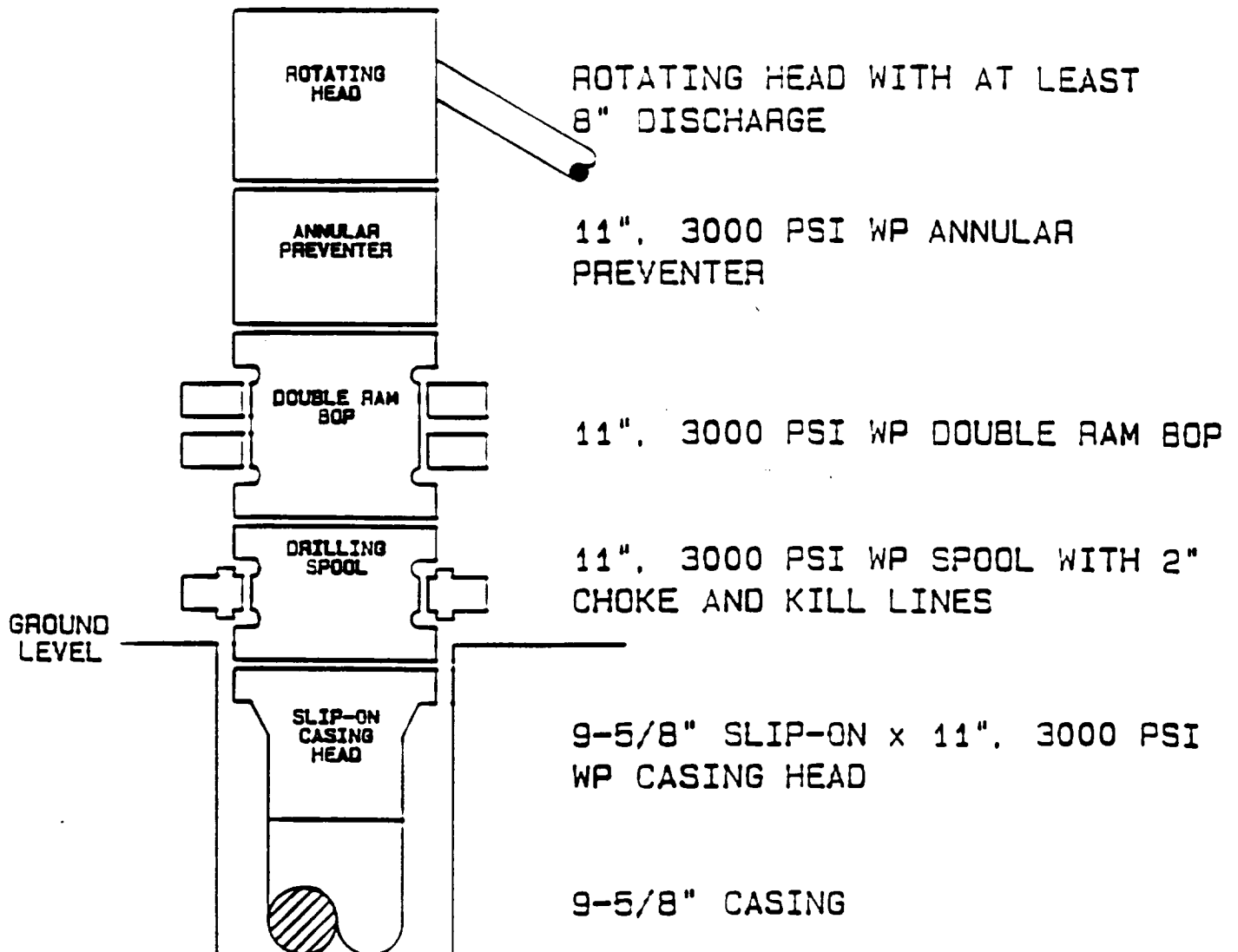
Survey Date: 09-08-92	Sheet 1 of 1 Sheets
W.O. Number: 92-11-1270	Drawn By: S.C. NICHOLS
Date: 09-10-92	1270PWR Scale: 1" = 1000'

EXHIBIT C.5

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 (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. 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. 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

Auxillary equipment added as appropriate includes:

- | | |
|-------------------------------------|------------|
| a. annular preventor | <u>Yes</u> |
| b. rotating head | <u>Yes</u> |
| c. mud-gas separator | <u>No</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 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 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



WDI



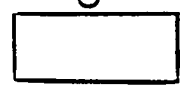
H2S Safety Contractor



Conoco Quarters



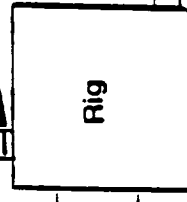
Muster Area No. 1



Contractor Quarters



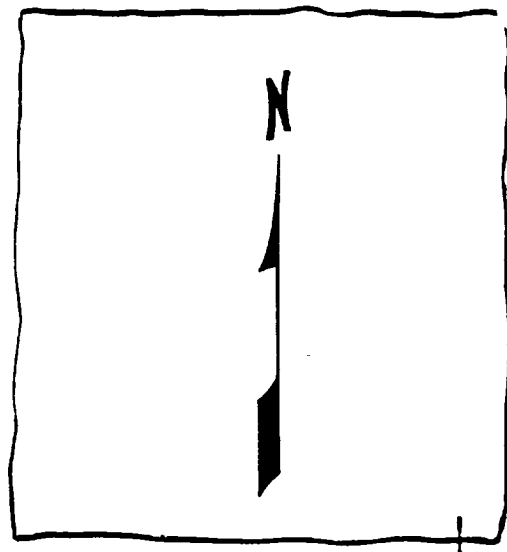
WDI



Rig



Choke Manifold



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)

anger signs



ccess road

Muster Area No. 2

WDI

