

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NM 5591750 54382	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Conoco Inc. ✓		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR 10 Desta Drive, Suite 100W, Midland, TX 79705 ✓		8. FARM OR LEASE NAME Dagger Draw	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 660' FSL & 1980' FEL At proposed prod. zone Cisco		9. WELL NO. 11	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*		10. FIELD AND POOL, OR WILDCAT North Dagger Draw Upper Penn.	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any)		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 30, T-19S, R-25E	
16. NO. OF ACRES IN LEASE		12. COUNTY OR PARISH Eddy	
17. NO. OF ACRES ASSIGNED TO THIS WELL 160		13. STATE NM	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.		14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*	
19. PROPOSED DEPTH 8100'		15. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	
20. ROTARY OR CABLE TOOLS Rotary		16. NO. OF ACRES IN LEASE	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) GR 3542		17. NO. OF ACRES ASSIGNED TO THIS WELL 160	
22. APPROX. DATE WORK WILL START* 5/20/91		18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	

PROPOSED CASING AND CEMENTING PROGRAM

HOLE SIZE	CASING SIZE	WEIGHT/FOOT	GRADE	THREAD TYPE	SETTING DEPTH	QUANTITY OF CEMENT
14 3/4"	9 5/8"	36/40#	K-55	LT&C CIRCULATE	1200'	2000 cys
8 3/4"	7"	26#	K-55	LT&C (tie back)	8100'	1800 cys

This well is proposed to be drilled as a Cisco oil producer.

Attachments

- 1) Well Location and 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 - Lease road and facilities map.
- 7) EXHIBIT B.1 - Location facility plat.
- 8) EXHIBIT C - Rig Layout.
- 9) BOP Specifications.
- 10) H₂S Drilling Operations Plan.

Post ID-1
6-7-91
New Lre + API

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 Jerry W. Hoover TITLE Regulatory Coordinator DATE 4/2/91
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE 6-3-91

CONDITIONS OF APPROVAL, IF ANY:
APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS

*See Instructions On Reverse Side

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. 11		
Unit Letter 0	Section 30	Township 19 South	Range 25 East	County NMPM		Eddy		
Actual Footage Location of Well:								
1980 feet from the east line and			660 feet from the south line					
Ground level Elev. 3541.6		Producing Formation Cisco		Pool North Dagger Draw Upper Penn.		Dedicated Acreage: 160 Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or 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

Printed Name

Jerry W. Hoover

Position

Regulatory Coordinator

Company

Conoco Inc.

Date

3/27/91

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

3-1-91

Signature & Seal of
Professional Surveyor

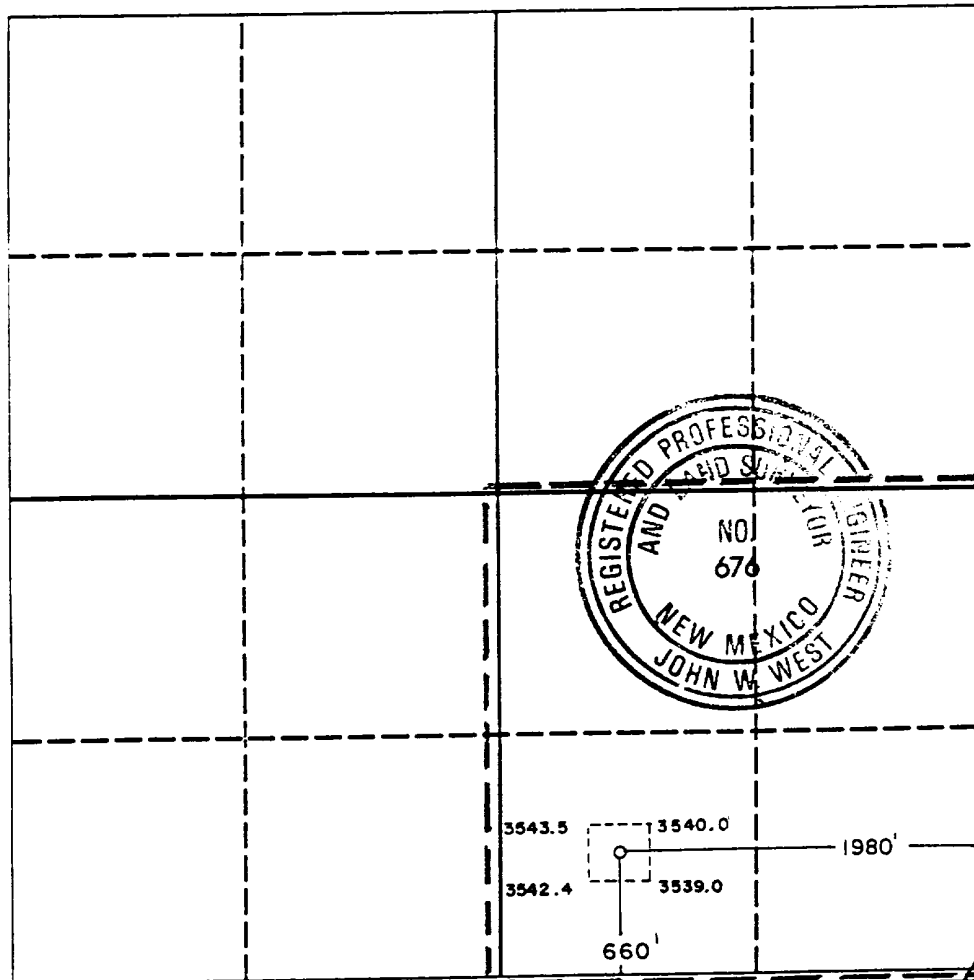
Certificate No.

JOHN W. WEST,

676

RONALD J. EIDSON,

3239



ATTACHMENT TO FORM 3160-3
APPLICATION FOR PERMIT TO DRILL

Conoco Inc.

Dagger Draw No. 11
660' FSL & 1980' FEL
Sec. 30, T-19S, R-25 E
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", 36/40# K-55
1200'-8100': 7", 26# K-55
5. The proposed mud program is as follows:
0-1200': 8.4-8.7# ~~Brine~~ → FW Mud
1200'-7300': 8.8-9.2# Brine SSS
7300'-8100': 8.8-9.2# Salt Gel
6. Run open-hole logs from 1200'-TD. The log suite will include the following:
1) GR-CNL-LDT-CAL, 2) GR-DLL-MSFL. 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) Possible H₂S.
b) Possible severe lost circulation in surface hole.
8. The anticipated starting date is 5-20-91 with a duration of approximately 20 days.

PROPOSED WELL PLAN OUTLINE

WELL NAME: Dagger Draw No.11 COUNTY: Eddy STATE: New Mexico
LOCATION: 660' FSL, 1980' FEL, Section 30, EST. KB: _____
T-19-S, R-25-E EST. GL: 3541'

DEPTH	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE	CASING	FRAC GRAD	FORM PRESS GRAD	(PPG)	DAYS
					SIZE-DEPTH			MUD WT & TYPE	
	Surface Water 300'		0'-1200' Deviation Survey each 250' not to exceed 3°					Spud 8.4-8.7	
1000									
		Known lost circulation from 0-1200'		14-3/4"	9-5/8 @ 1200'		8.33		4
	Glorieta 1989'		Install H ₂ S monitor @ 1200'		w/2000 sx "lite" & "C" (to protect from surface waterflows and severe Lost circ.)			Cut Brine 8.8- 9.2	6
2000		H ₂ S poss. to TD	Install a 2- man mudlogger 1200'-TD 1200'-3000'						
	Yeso 2145'		Deviation survey each 250' not to exceed 5° or 10°/100' DLS						8
3000		Deviations from 4-6° likely from 4500'-5500'							
								pH > 10 to TD	10
4000									
	Abo 4198'								
5000					DV tool above lower Abo LC zone (If Nec) 4500'				13
	Wolfcamp 5100'								
6000			3000'-TD Deviation survey each 250' or as needed not to						17
7000		H ₂ S possible in Cisco	exceed 5° or 10°/100' DLS						20
								Mud up with salt gel and - starch @	
	Cisco 7600'	Known seepage and lost circ zones from		8-3/4"					
8000					7" @ 8100'	15	8.3-	7300'	25
	Target TD 8100'	7000'-8100'	GR-CNL-LDT- DLL-MSFL-CAL from 8100'- 1200'		w/1800 sx "H" & "C" lite		9.0	8.8-9.2	
9000			Image Log from 8100'-7600'						

**SURFACE USE PLAN
Conoco Inc.**

Dagger Draw No. 11

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 660' FSL & 1980' 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 the junction of U.S. 285 and 82, go south for 15.4 miles. Turn west on County Road 23 and go 8.1 miles. Turn north (right) on County Road 29 and go 1.25 miles across the first cattle guard. Turn west (left) and go 800' on new lease road 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. 800' from existing county road to location.
- 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"

4. Location of Proposed Facilities if Well is Productive

Existing producing facilities are shown on Exhibit "B".

5. Water Supply

Fresh water will be secured from the Barbara Federal No. 8 location and will be trucked.

6. Source of Construction Materials
Caliche from pit located in SW/4 SW/4 Sec. 18, T-20S, R-38E

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.

7. Ancillary Facilities

See Exhibit "B.1" for details of the required power line and flowline for this well.

8. Wellsite Layout

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

9. 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.

10. Surface Ownership

Bureau of Land Management.

11. Other Information

An archaeological survey will be conducted by Pecos Archaeological Consultants.

12. Operator's Representative and Certification

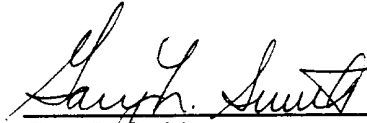
The person who can be contacted concerning compliance of this Surface Use Plan is:

**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.

03 APRIL 1991

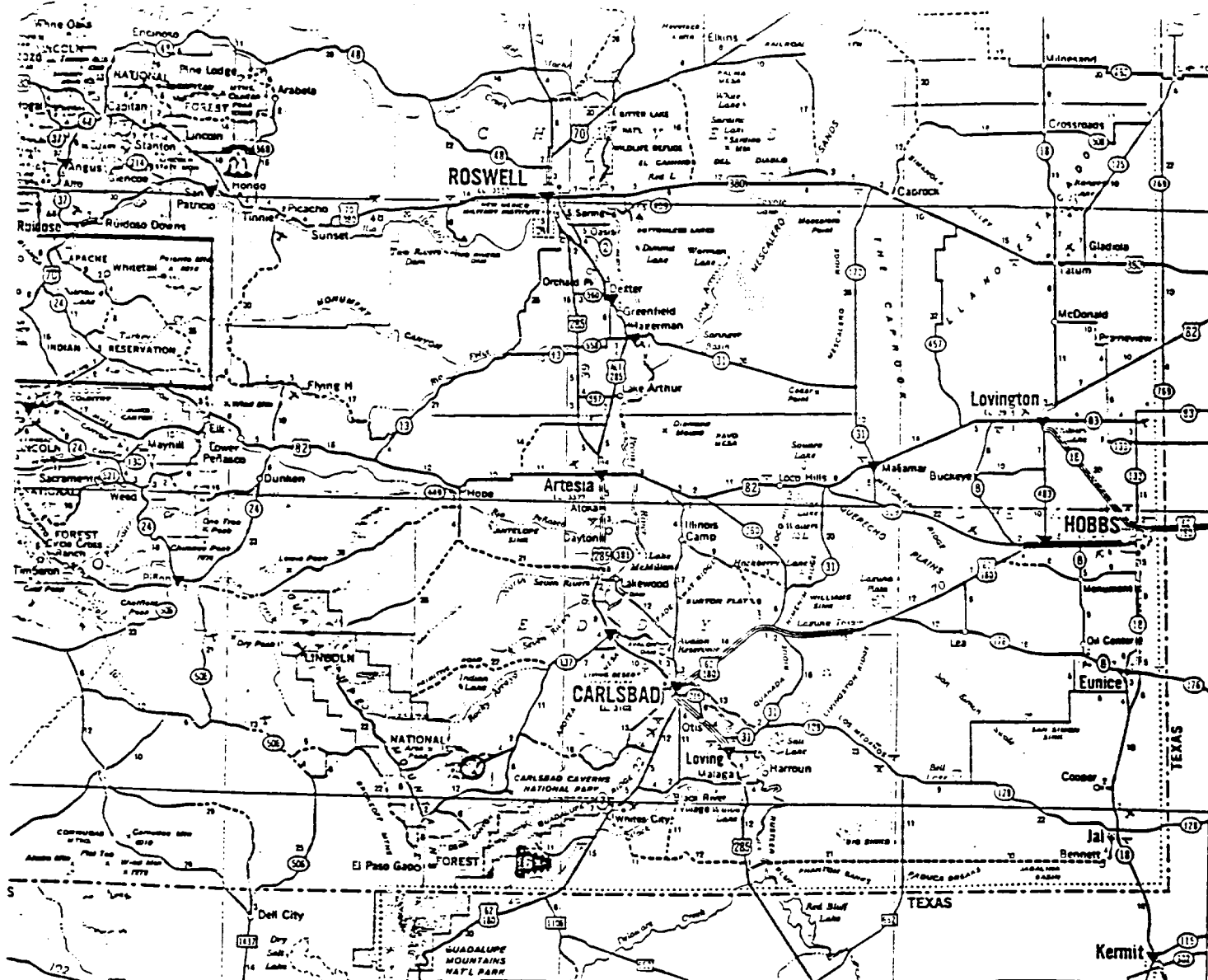
Date



Gary L. Smith

Drilling Superintendent

JWH/tm



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.
- ▼ Other CONOCO station locations.



Locations where CONOCO DEALERS provide trailer travelers with Sanitary Disposal Facilities. Look for this sign:



TOURAIDE ATTRACTIONS

- HISTORICAL
- SCENIC
- GENERAL

Attraction points described on reverse 1-60



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 UNITED STATES STATE TEXAS FARM OR RANCH

ROAD CLASSIFICATIONS

CONTROLLED ACCESS DIVIDED HIGHWAYS

OTHER DIVIDED HIGHWAYS

PRINCIPAL THROUGH HIGHWAYS

OTHER THROUGH HIGHWAYS

CONNECTING HIGHWAYS

LOCAL ROADS

MILEAGES

MILEAGE BETWEEN TOWNS AND JUNCTIONS

MILEAGE BETWEEN DOTS

ONE MILE EQUALS 1.6 KILOMETERS ONE KILOMETER EQUALS .6 MILES

SPECIAL FEATURES

STATE PARKS WITH CAMPGROUND WITHOUT CAMPGROUND

RECREATION AREAS

PORTS OF ENTRY

POINTS OF INTEREST

POPULATION SYMBOLS

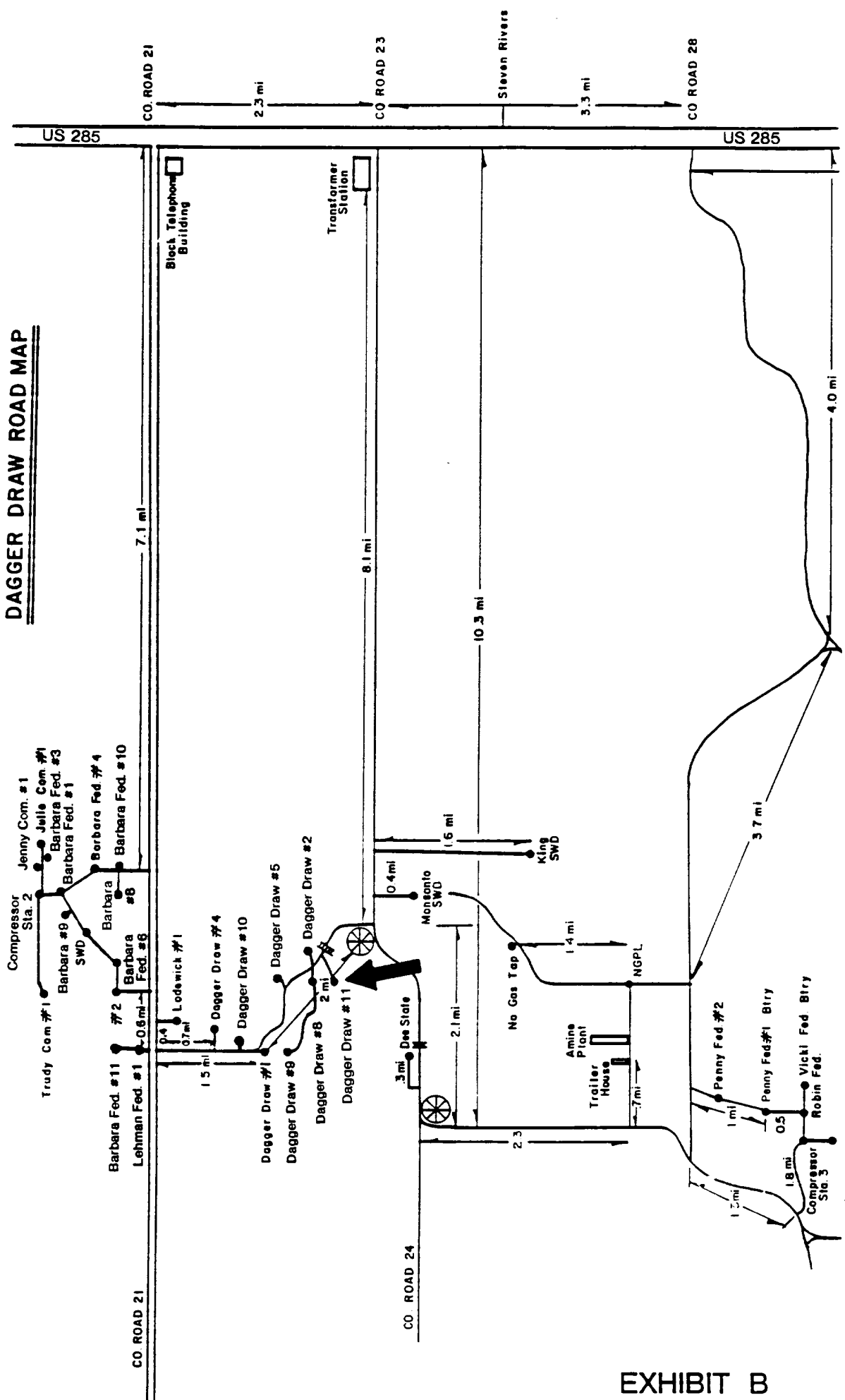
Sure Census 2,500 to 5,000 25,000 to 50,000

Under 1,000 5,000 to 10,000 50,000 to 100,000

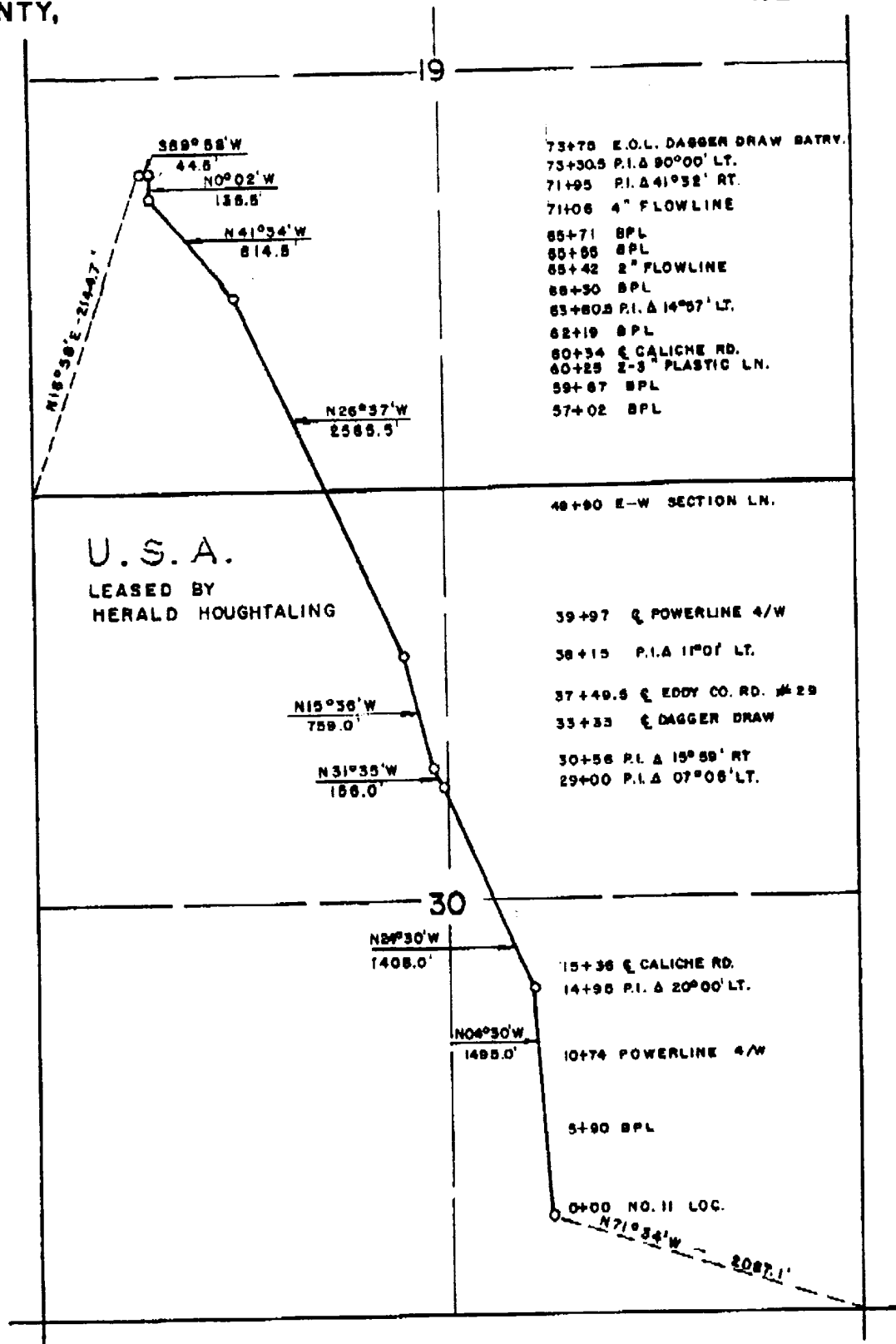
1,000 to 2,500 10,000 to 25,000 100,000 and over

© 1978 BY THE COURTESY COMPANY ALL RIGHTS RESERVED

DAGGER DRAW ROAD MAP



SEC'S. 19 & 30, TOWNSHIP 19 SOUTH, RANGE 26 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO



LEGAL DESCRIPTION

A STRIP OF LAND 50.0 FEET WIDE, AND 7375.0 FEET OR 1.40 MILES IN LENGTH, BEING 25.0 FEET LEFT AND 25.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

DAGGER DRAW #11- FLOWLINE

I HEREBY CERTIFY THAT THIS PLAT WAS MADE FROM NOTES TAKEN IN THE FIELD IN A BONA FIDE SURVEY MADE UNDER MY SUPERVISION, AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

[Signature]
JOHN W. WEST, N.M. P.E. & L.S. No. 676
TEXAS R.P.S. No. 1138
RONALD J. EIDSON, N.M. L.S. No. 3239
TEXAS R.P.S. No. 1883

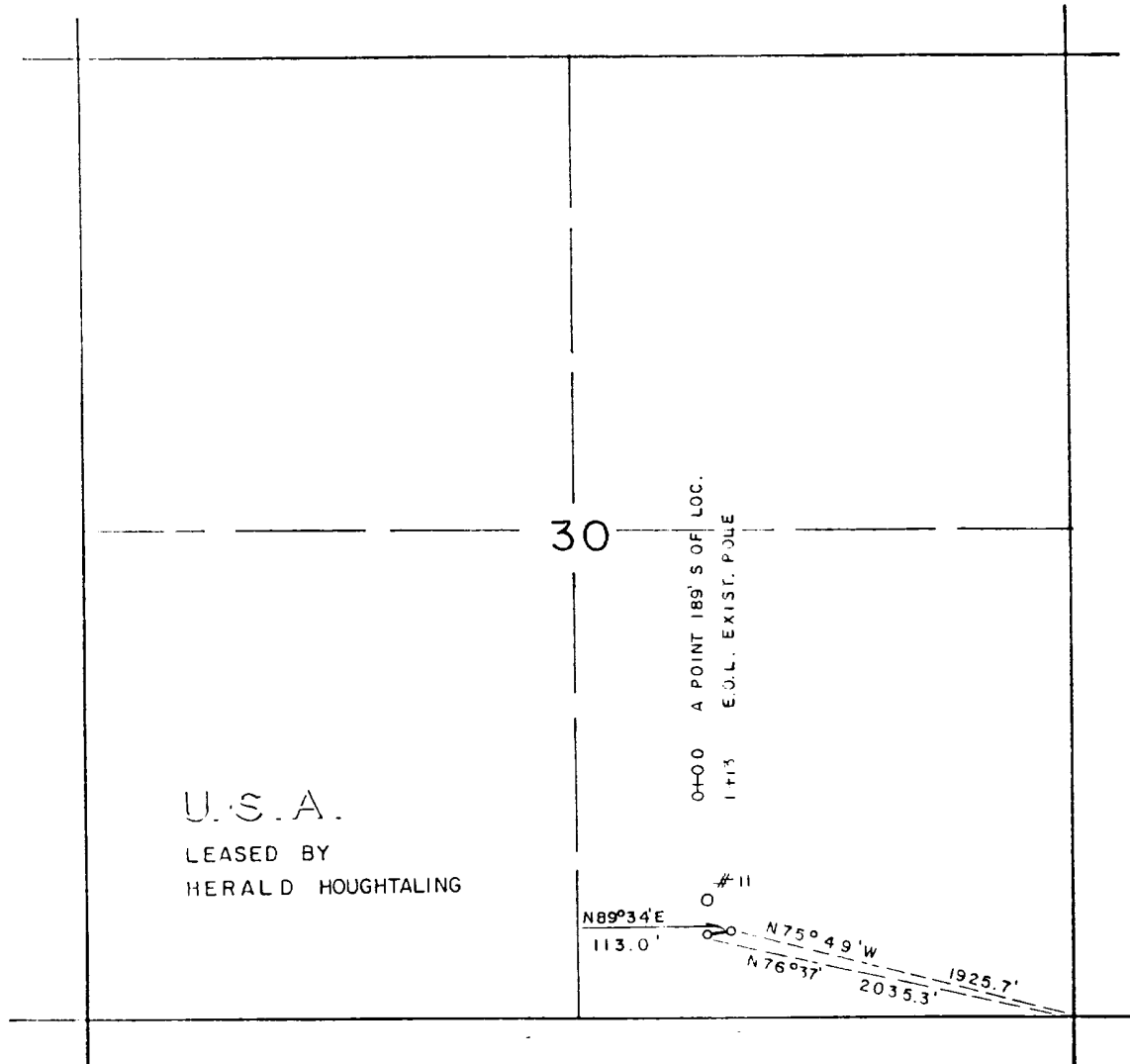
CONOCO INC.

A PROPOSED FLOWLINE 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 HOBBS, NEW MEXICO
Scale: 1"=1000' Drawn By: R. DOPORTO
Date: 3-22-91 [CK. EJ] Sheet 1 of 1 Sheets

EXHIBIT B.1

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



LEGAL DESCRIPTION

A STRIP OF LAND 50.0 WIDE AND 113.0 FEET OR 0.02 MILES IN LENGTH
BEING 25.0 FEET LEFT AND 25.0 FEET RIGHT OF THE ABOVE PLATTED,
CENTERLINE SURVEY.



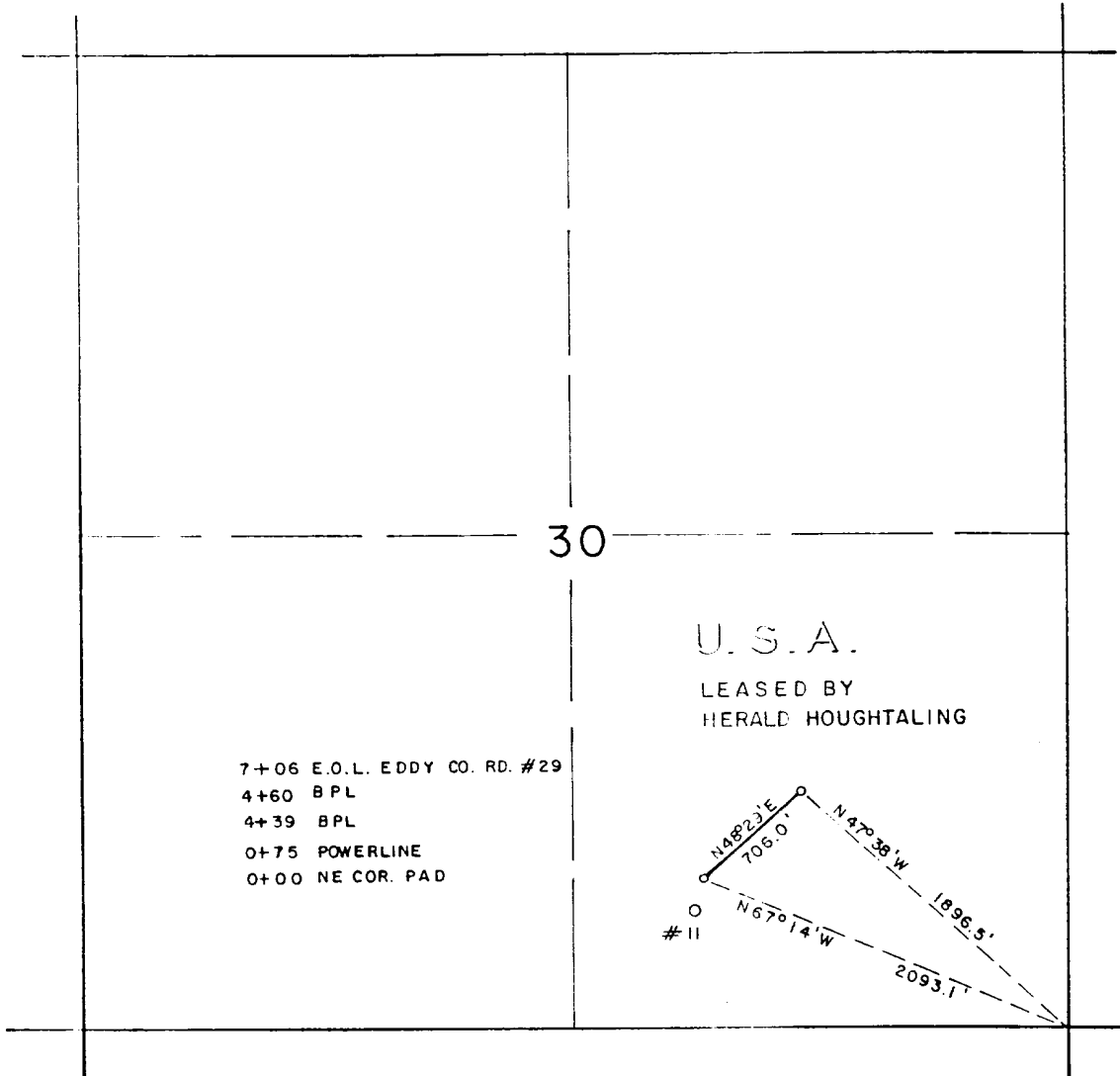
DAGGER DRAW #11- POWERLINE

I HEREBY CERTIFY THAT THIS PLAT
WAS MADE FROM NOTES TAKEN IN THE FIELD
IN A BONA FIDE SURVEY MADE UNDER MY
SUPERVISION, AND THAT THE SAME IS TRUE
AND CORRECT TO THE BEST OF MY KNOWL-
EDGE AND BELIEF.

John W. West
JOHN W. WEST, N.M. P.E. & L.S. No. 676
TEXAS R.P.S. No. 1138
RONALD J. EIDSON, N.M. L.S. No. 3239
TEXAS R.P.S. No. 1883

CONOCO INC.	
A PROPOSED POWERLINE CROSSING FEDERAL LAND IN SECTION 30, TOWNSHIP 19 SOUTH, RANGE 25 EAST, EDDY COUNTY, NEW MEXICO.	
JOHN W. WEST ENGINEERING COMPANY CONSULTING ENGINEERS HOBBS, NEW MEXICO	
Scale: 1"=1000'	Drawn By: R. DOPORTO
Date: 3-22-91	Ck. <i>en</i> Sheet 1 of 1 Sheets

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, AND 706.0 FEET OR 0.13 MILES
IN LENGTH, BEING 25.0 FEET LEFT AND 25.0 FEET RIGHT OF THE
ABOVE PLATTED CENTERLINE SURVEY.



DAGGER DRAW #11-ROAD

I HEREBY CERTIFY THAT THIS PLAT
WAS MADE FROM NOTES TAKEN IN THE FIELD
IN A BONA FIDE SURVEY MADE UNDER MY
SUPERVISION, AND THAT THE SAME IS TRUE
AND CORRECT TO THE BEST OF MY KNOWL-
EDGE AND BELIEF.

John W. West
JOHN W. WEST, N.M. P.E. & L.S. No. 676
TEXAS R.P.S. No. 1138
RONALD J. EIDSON, N.M. L.S. No. 3239
TEXAS R.P.S. No. 1883

CONOCO INC.

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

JOHN W. WEST ENGINEERING COMPANY
CONSULTING ENGINEERS HOBBS, NEW MEXICO
Scale: 1"=1000' Drawn By: R. DOPORTO
Date: 3-22-91 Ck. GJ Sheet 1 of 1 Sheets



25 24
30 19
R-24-E
R-25-E

CARRIER PIPE CASING

CONTENTS:

MATERIAL:

OUTSIDE DIA.:

GRADE & SPEC.:

WALL THICKNESS:

37+ 37 E/A
37+49.5 E EDDY CO. RD. #29
37+ 62 E/A

S66°10'E
2599.7'
N15°36'W

3' MIN.
3' MIN.

DAGGER DRAW #11 - ROAD CROSSING

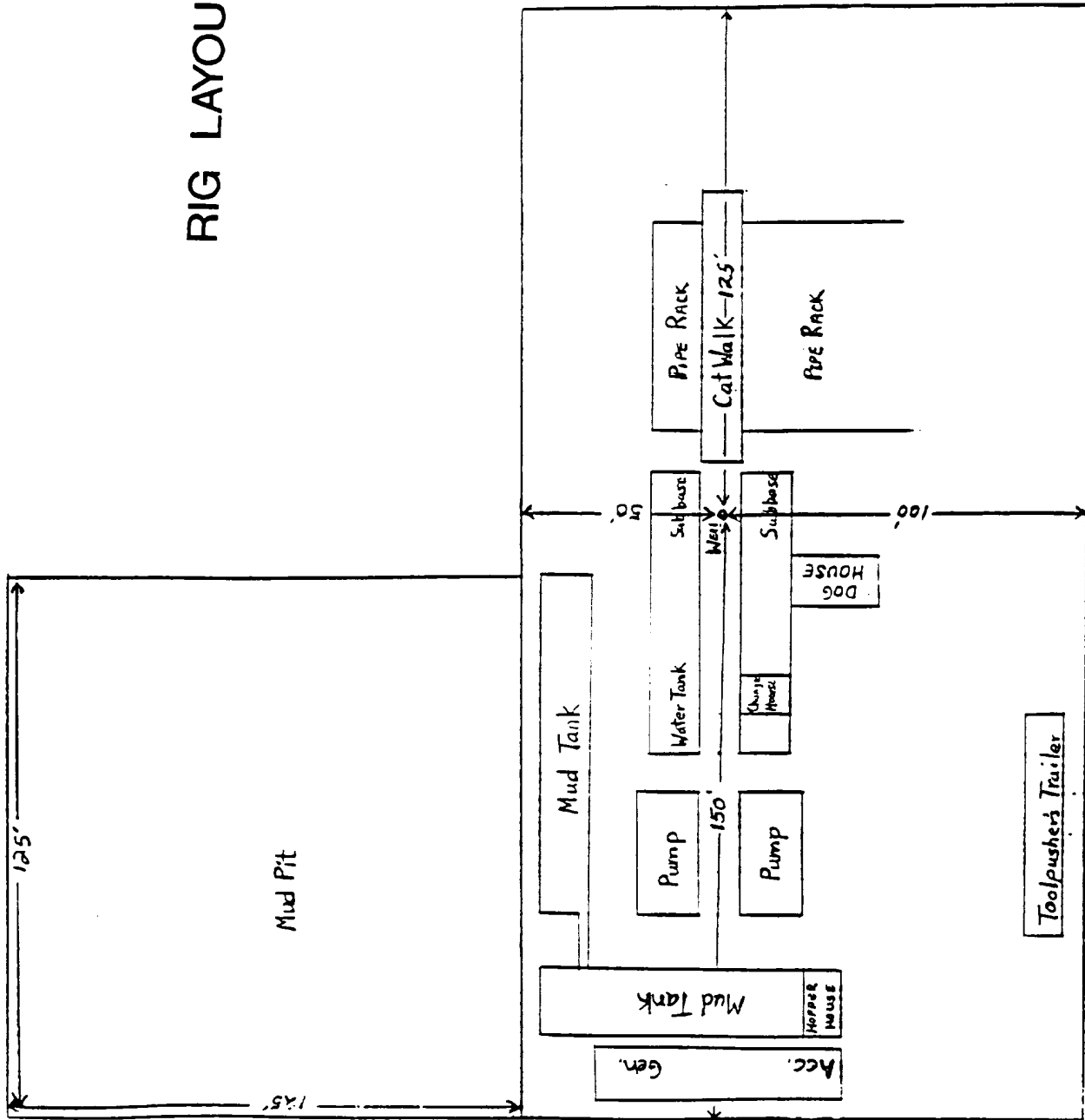
CONOCO INC.

A ROAD CROSSING UNDER EXIST. ROAD N. 1/4 1/4 SECTION
30, TOWNSHIP 19 NORTH, RANGE 25 EAST, N.M.P.M., EDDY
COUNTY, NEW MEXICO.

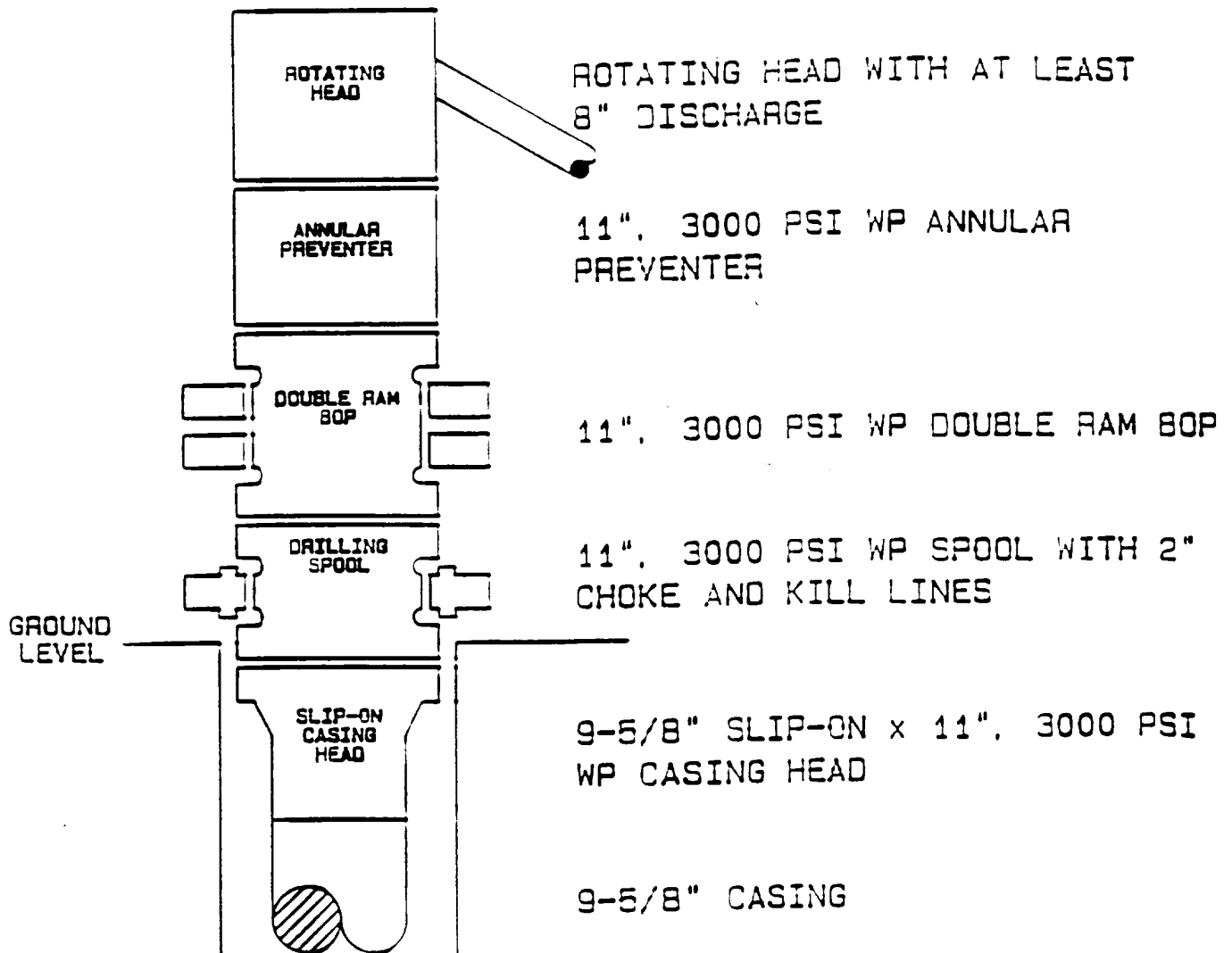
JOHN W. WEST ENGINEERING CO. HOBBS, NEW MEXICO

Date: 12-10-11 Drawn by: JWS, PSCOR Checked by: JWS

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>N/A</u> |
| d. flare line and means of ignition | <u>N/A</u> |
| e. remote operated choke | <u>N/A</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

Danger Signs
Access Roads

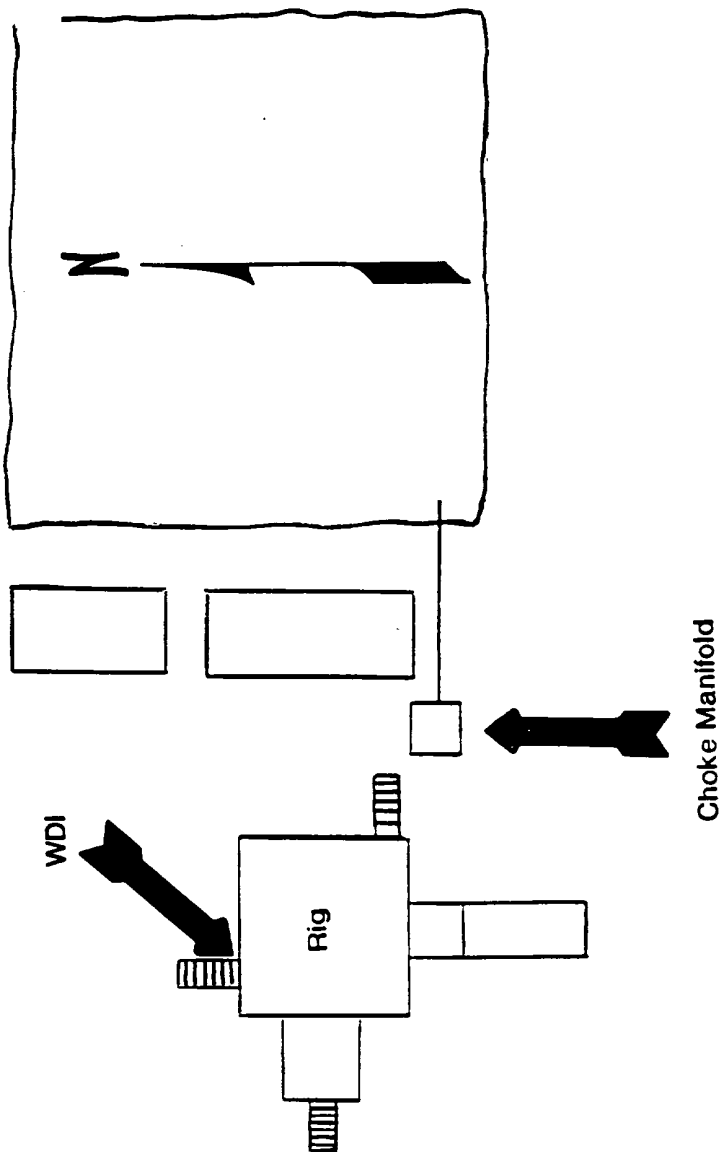
H2S Safety Contractor

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



Muster Area No. 2
WDI

