

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## 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

Continental Oil Company

## 3. ADDRESS OF OPERATOR

Box 460; Hobbs, NM 88290

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

At surface  
900 FSL & 1190' FEL of Sec. 19

At proposed prod. zone

Same

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

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

6700' GR

## 16. NO. OF ACRES IN LEASE

2560

## 19. PROPOSED DEPTH

2790'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

160

## 20. ROTARY OR CABLE TOOLS

Rotary

## 22. APPROX. DATE WORK WILL START\*

4-7-77

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 3/8"	24#	500'	310 SX. CIRC.
6 3/4"	2 7/8"	6.5#	2790'	225 SX.

It is proposed to drill a straight hole to a depth (T.D.) of 2790' & complete as a Ballard Pictured Cliffs gas well.

Mud Program: 0'-500' Fresh water -- 500'-2790' Fresh water gel -- 8.5-9.0#

Acreage is dedicated to a gas purchaser

See attached for BOP program.

See attached Proposed Well Program for formation tops, logging, etc.

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

Wm. A. Butterfield Admin. Supv.

DATE

3-16-77

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

USGS-DURANGO(6). GAS Co. NM(2). Exxon MTL BEA. File(2)

**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACERAGE DEDICATION PLAT**

All distances must be from the outer boundaries of the Section

Owner <b>CONTINENTAL OIL COMPANY</b>		Lease <b>AXI APACHE "D"</b>		Well No. <b>4</b>
Unit Letter <b>P</b>	Section <b>19</b>	Township <b>24 NORTH</b>	Range <b>4 WEST</b>	County <b>RIO ARriba</b>
Actual Well Location of Well:				
<b>900</b>	feet from the	<b>SOUTH</b>	line and	<b>1190</b> feet from the <b>EAST</b> line
Ground Level <b>6733</b>	Forming Formation <b>Pictured Cliffs Ballard</b>			Dedicated Acreage <b>160</b>

- 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 interests of all owners been consolidated by communization, 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 consolidated. (Use reverse side of this Form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communization, unitization, forced-pooling, or otherwise) or until a non standard unit, eliminating such interests, has been approved by the Commission.

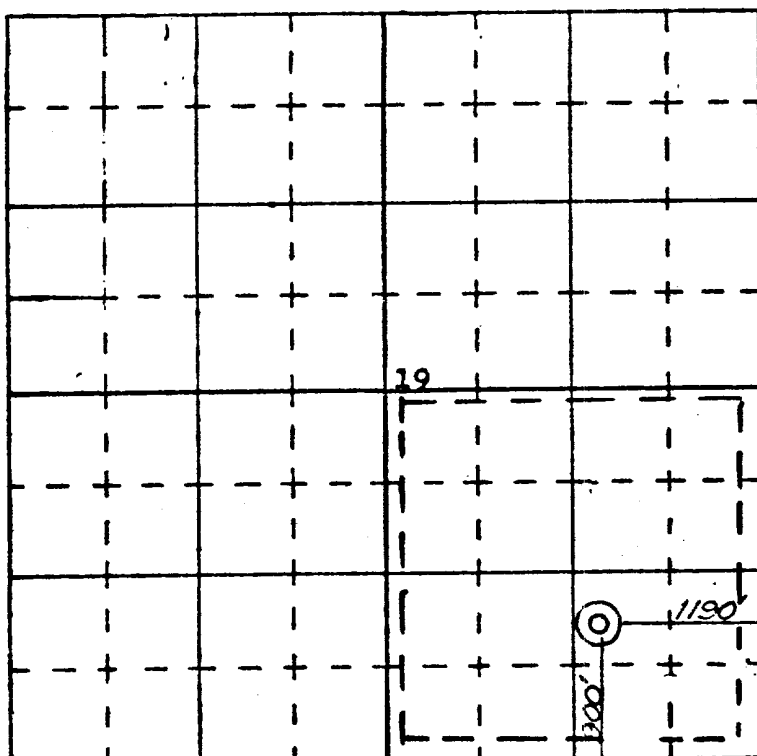
**CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name Wm. A. Butterfield  
 Position Admin. Supv.  
 Company CONTINENTAL OIL Co.  
 Date 3-16-77

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 26 February 1977  
James P. Leese  
 Registered Professional Engineer  
 and/or Land Surveyor **James P. Leese**



SCALE—4 INCHES EQUALS 1 MILE

SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.

1463  
 Certificate No.

ATTACHMENT TO FORM 9-331 C  
APPLICATION FOR PERMIT TO DRILL

Continental Oil Company, AXI Apache "D" No. 4  
900' FSL and 1190' FEL of Section 19, T-24N, R-4W,  
Rio Arriba County, New Mexico

1. The geologic name of the surface formation is Cretaceous Sand.
2. The estimated tops of important geologic markers are shown on the attached Proposed Well Plan.
3. The estimated depths at which anticipated water, oil, gas, or other mineral-bearing formations to be encountered are shown on attached Proposed Well Plan.
4. The proposed casing program is as follows:

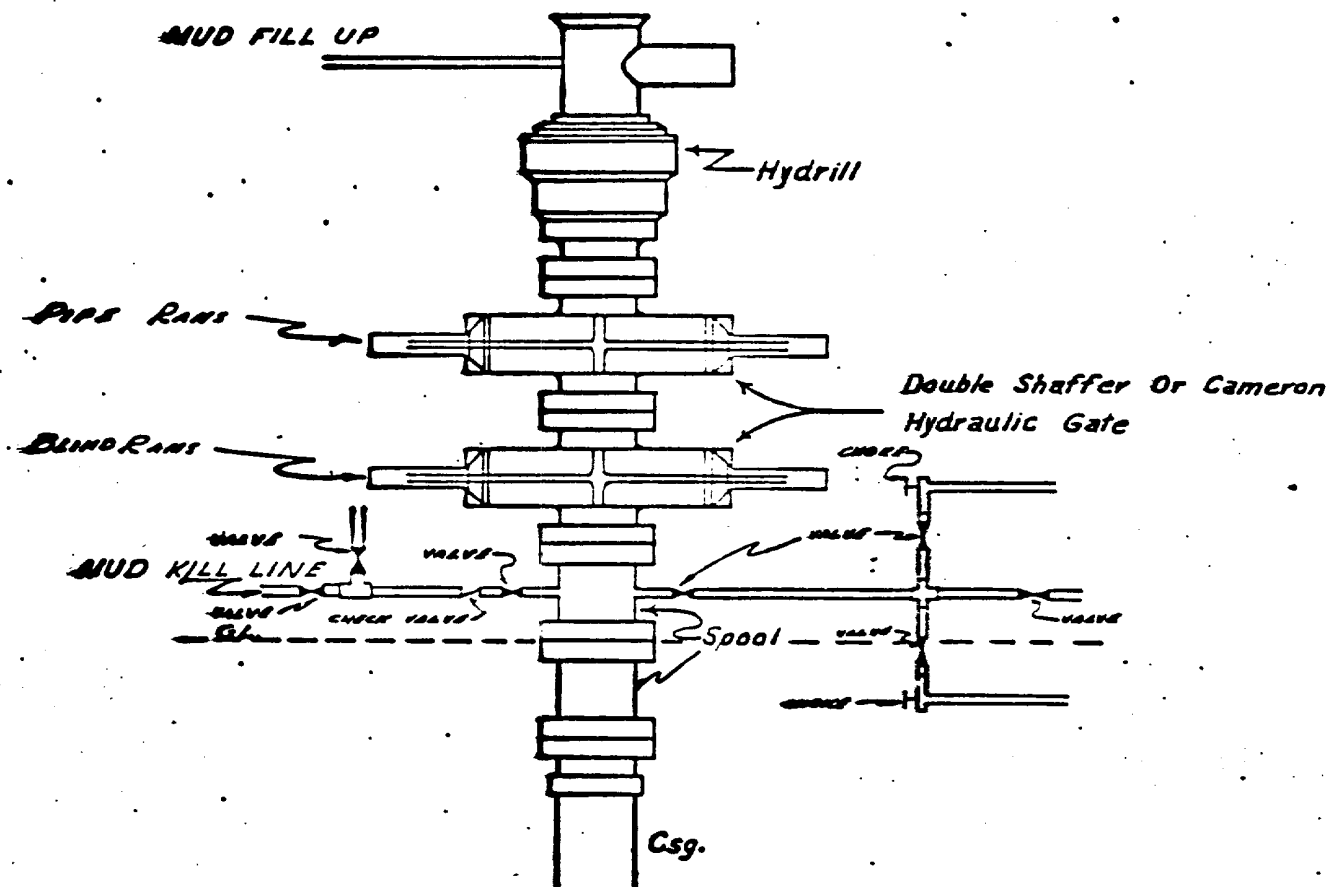
Surface - new 8 5/8" 24# K-55 set at 500'  
Production - new 2 7/8" 6.5# K-55 set at 2790'
5. A drawing of an API Series 900 Blowout Preventer Specification is attached. Pipe rams and blinds will be checked to 1,000 PSI for 30 minutes when BOP is installed. BOP will be checked when casing string is set and operated daily for checks.
6. The proposed mud program is as follows:

0-500' Fresh Water,	8.5-9.0 pounds per gallon
500-2790' Fresh Water Gel	8.5-9.0 pounds per gallon
7. The auxiliary equipment to be used is:
  - (1) Kelly cocks
  - (2) Floats at the bit
8. It is proposed to run SP-IES log from TD to surface; GR CAL FDC logs TD to 1700', and PDC logs at selected intervals.
9. No abnormal pressures or temperatures are expected to be encountered in this well.
10. The anticipated starting date for this well is April 7, 1977, with a duration date of approximately 7 days.

County & State  
Elev: 6740' G.L. (est.)

[illegible]

CONTINENTAL OIL COMPANY  
Blow-out Preventer Specifications



API Series 900

NOTE:

Manual and Hydraulic controls with closing unit no less than 75' from well head.  
Rezote controls on rig floor.

DUE TO SUBSTRUCTURE CLEARANCE,  
HYDRILL MAY OR MAY NOT BE USED.

AXI Apache "D" No. 7

### SURFACE USE PLAN

Continental Oil Company, AXI Apache "D" No. 4  
900' FSL and 1190' FEL of Section 19, T-24N, R-4W  
Lease Contract No. 42, Rio Arriba County, NM

This plan is to accompany "Application for Permit to Drill" the subject well. The following is a discussion of pertinent information concerning possible effect which the proposed drilling of the well may have on the environment of the well and road sites and surrounding acreage. A copy will be posted on the derrick floor so that all contractors and sub-contractors will be aware of all items of this plan.

#### 1. Existing Roads

- A. The proposed well site is 900' FSL and 1190' FEL of Section 19, T-24N, R-4W, Rio Arriba County, New Mexico.
- B. Exhibit "A" is a portion of a AXI Apache "D" lease map showing existing roads and proposed new road & location.
- C. The access roads are shown on Exhibits "A" and "B".

#### 2. Planned Access Roads

Access is from an existing roadway which runs directly to the site. Roads may be altered at the discretion of the Jicarilla Apache Tribe and will be constructed and maintained according to their specifications.

#### 3. Location of Existing Wells

See Exhibit "A".

#### 4. Location of Existing and/or Proposed Facilities

- A. Rehabilitation: 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.

#### 5. Water Supply

The supply of water will be hauled from Largo Wash (SE/4 of Section 10, T-24N, R-4W of Rio Arriba County, New Mexico....)

#### 6. Source of Construction Materials

Not applicable. Drilling pad to be compacted.

7. Methods for Handling Waste Disposal

Waste Disposal: Well cuttings will be disposed in reserve pit. Trash pit is shown on "Rig Layout", Exhibit "C". All detrimental waste will be buried with a minimum cover of 24" of dirt. See Exhibit "C" for location of pits.

8. Ancillary Facilities

None

9. Well Site Layout

Exhibit "C" shows the relative location and dimensions of the well pad, mud pit, reserve pit, trash barrel, etc.

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. Surface will be leveled and properly conditioned as required by USGS after consulting with proper surface managing agency.

11. Other Information

- A. Terrain: Sandy slope surrounded by level terrain. See Exhibit "B", topographic map of area.
- B. Soil: Sandy clay
- C. Vegetation: Sage, chico brush, yucca, rabbit bush, snake broom weed, and gamma.
- D. Surface Use: Suitable for grazing.
- E. Ponds and Streams: None within one mile.
- F. Water Wells: None within one mile.
- G. Residences and Building: None within one mile.
- H. Arroyos, Canyons, Etc: See attached topographic map, Exhibit "B".
- I. Well Sign: Sign identifying and locating well will be maintained at drill site with the spudding of the well.
- J. Open Pits: All pits containing mud or other liquids will be fenced.
- K. Archaeological Resources: None observed

12. Operator's Representative

Field personnel who can be contacted concerning compliance of this Surface Use Plan are as follows:

PRODUCTION AND DRILLING:

B. E. Anderson  
Petroleum Center Building,  
Room 215  
501 Airport Drive  
Phone: (505) 327-9557

L. P. Thompson  
1001 North Turner  
Hobbs, New Mexico 88240  
Phone: (505) 393-4141

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Continental Oil Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

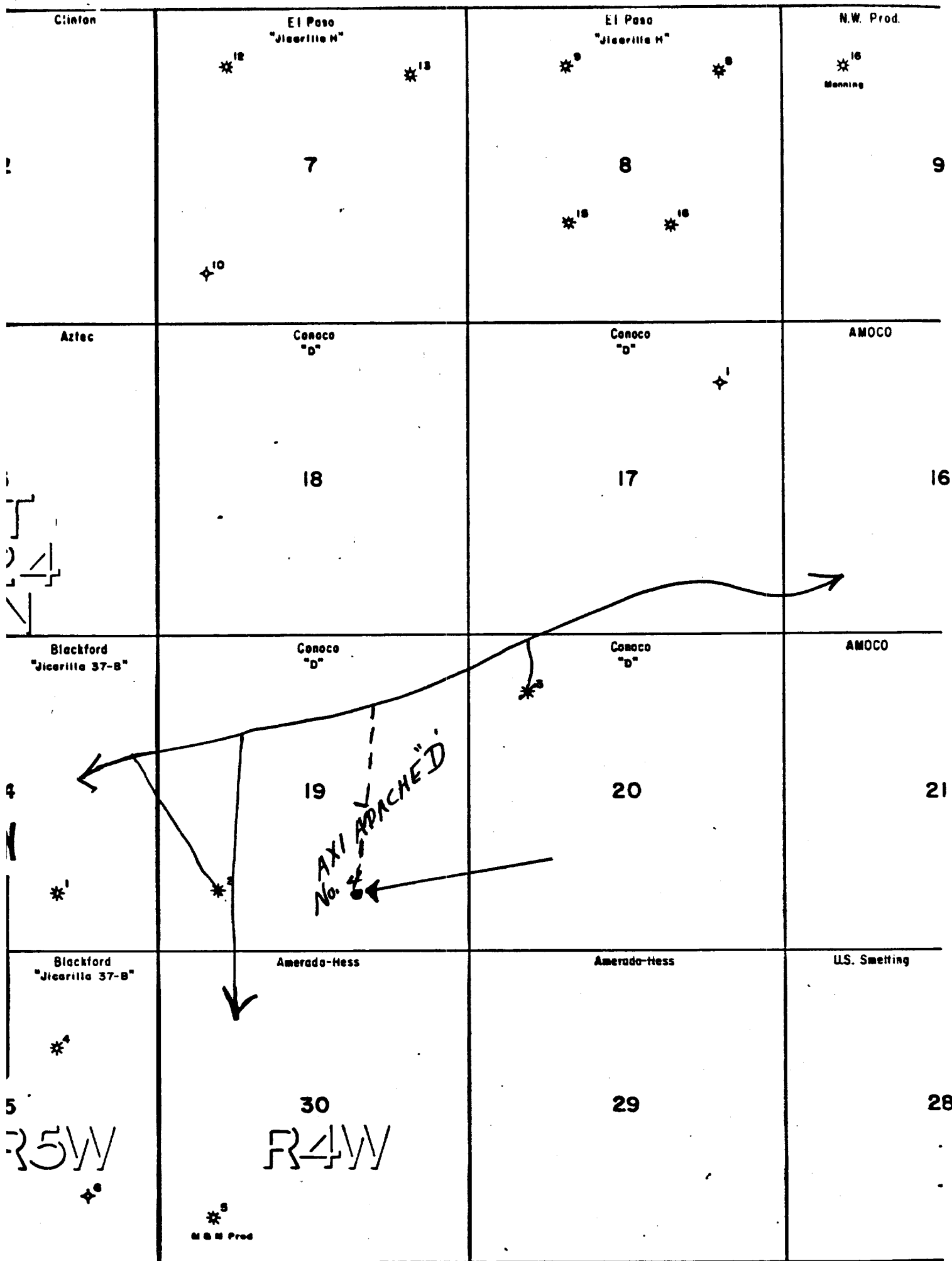
3-16-77

DATE



L. P. THOMPSON  
DIVISION MANAGER

ed



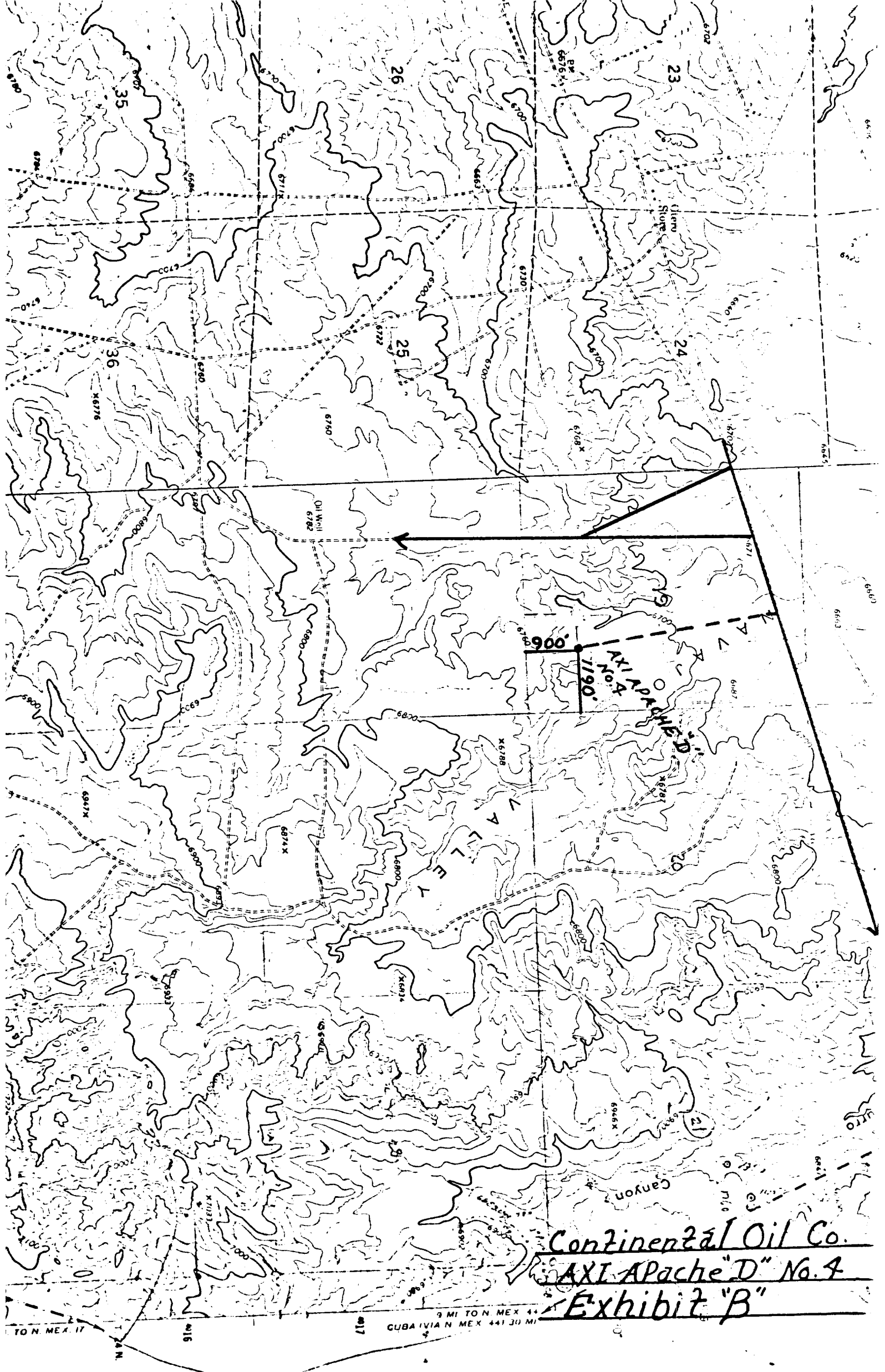
EXISTING wells \*

PROPOSED wells •

EXISTING ROADS \_\_\_\_\_

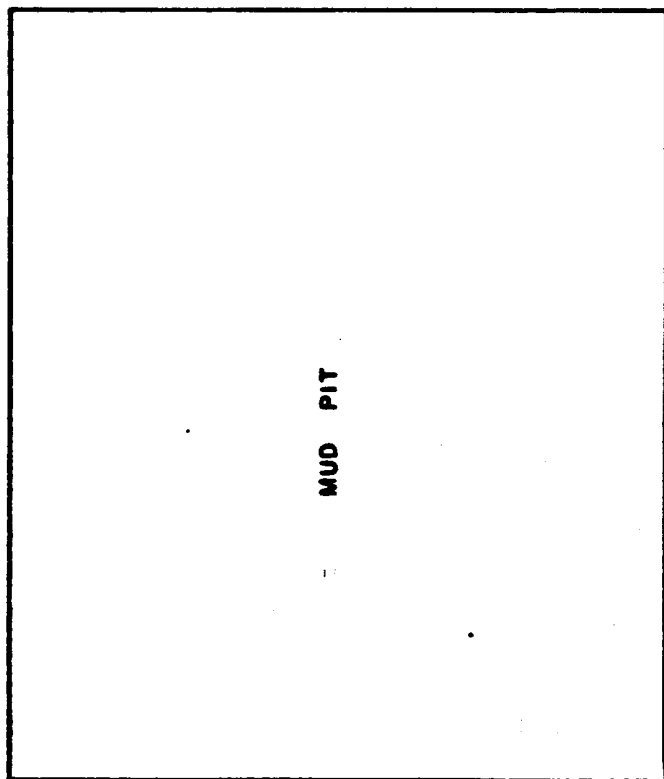
PROPOSED ROADS - - - - -

<b>CONOCO</b>	
PRODUCTION DEPARTMENT	HOBBS DIVISION
AXI APACHE "D" LEASE RIO ARriba COUNTY, NEW MEXICO <u>EXHIBIT A</u> AXI APACHE "D" No. 7	
SCALE 	

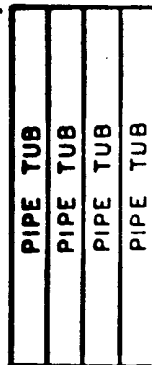


Continental Oil Co.  
AXI APACHE "D" No. 4  
Exhibit "B"

9 MI TO N. MEX. 44  
CUBA VIA N. MEX. 441.30 MI



MUD PIT

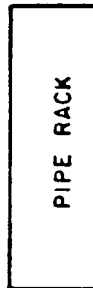


PIPE TUB

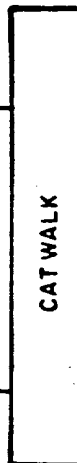
PIPE TUB

PIPE TUB

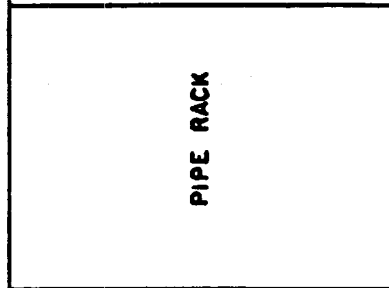
PIPE TUB



PIPE RACK



CATWALK



PIPE RACK



SUB BASE

WATER TANK

WELL  
○



SUB BASE

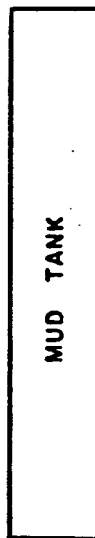
CHANGE HOUSE



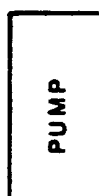
DOG HOUSE

NOTE

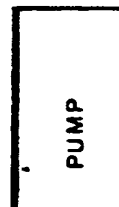
200' x 400'  
Parking area for  
frac. trucks located  
on East side of  
drill site. →



MUD TANK



PUMP



PUMP



MUD TANK

HOPPER HOUSE



GEN.

ACC.

TRASH  
PIT  
8' x 4' DEEP

APPROX. RIG SITE DIMENSIONS  
160' x 200'

CONTINENTAL OIL COMPANY  
PRODUCTION DEPARTMENT



RIG LAYOUT  
EXHIBIT "C"

AXI Apache "D" No. 4