

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 88240

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

At surface

1610' FNL & 1690 FEL of Sec. 8

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 drlg. unit line, if any)18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

16. NO. OF ACRES IN LEASE

2555.21

19. PROPOSED DEPTH

3170'

17. NO. OF ACRES ASSIGNED
TO THIS WELL.

160

20. ROTARY OR CABLE TOOLS

Rotary

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

6778' GR

22. APPROX. DATE WORK WILL START*

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	29#	500'	250 SX. CIRC.
6 3/4"	2 7/8"	6.5#	3170'	250 SX.

It is proposed to drill a straight hole to a T.D. of 3170' & complete as a South Blanco Pictured Cliffs gas well.

Acreage is dedicated to a gas purchaser.

Mud. Program: see No. 6 on attachment.

See attached for BOP Program

See attached Proposed Well Plan 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. Butler

TITLE

ADMIN. SUPER.

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. REA. FILE (2)

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

All distances must be from the outer boundaries of the Section

Operator CONTINENTAL OIL COMPANY				Lease AXI APACHE "J"		Well No. 27	
Unit Letter G	Section 8	Township 25 NORTH	Range 5 WEST	County RIO ARriba			
Actual Footage Location of Well							
1610		feet from the	NORTH	line and	1690	feet from the	EAST
Ground Level Elev. 6778		Producing Formations South Blanco		Pool Pictured Cliffs	Dedicated Acreage 160		Acre

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 communitization, unitization, force-pooling, etc?
☐ Yes ☐ No If answer is "yes," type of consolidation _____

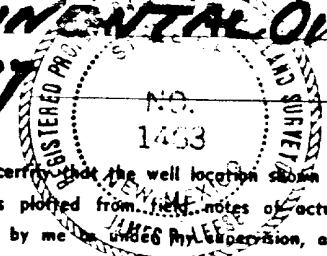
If answer is "no," list the owners and tract descriptions which have actually consolidated. (Use reverse side of this form if necessary.) _____

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 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. Dinterfeld
 Position ADMIN. SUPERV.
 Company CONTINENTAL OIL CO.
 Date 3-15-77

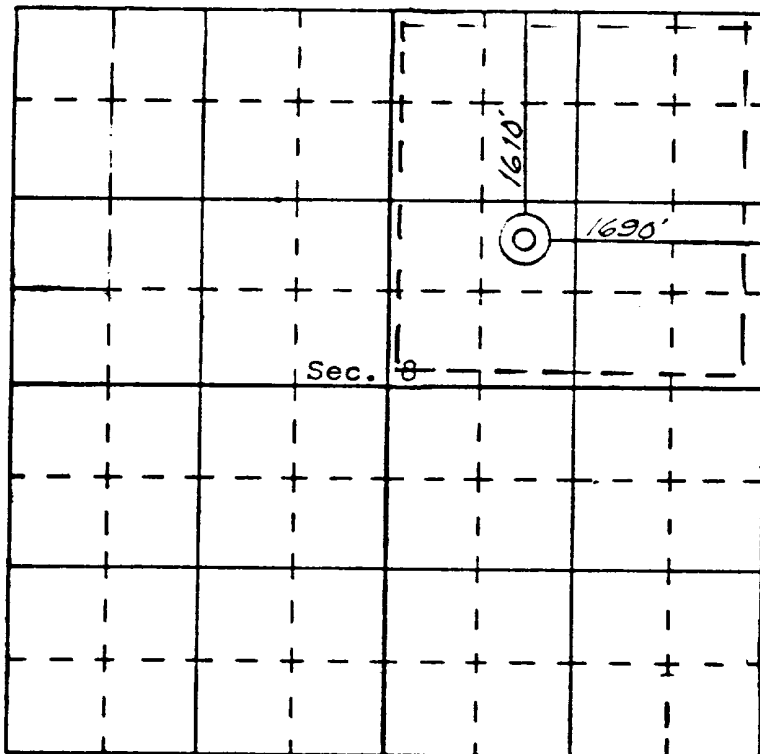


I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

17 February, 1977
 Date Surveyed

James P. Leese
 Registered Professional Engineer
 and/or Land Surveyor

James P. Leese
1463
 Certificate No.



N

Attachment To Form 9-331 C
Application For Permit To Drill

Continental Oil Company, AXI Apache J No. 27
1610' FNL and 1690' FEL of Section 8, T-25N, R-5W
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 3170'
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'-3170' 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 and GR CAL FDC from TD to 1900', 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 May 1, 1977, with a duration date of approximately 7 days.

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACERAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section

Operator **CONTINENTAL OIL COMPANY** Township **AXI APACHE "N"** Well No. **27**
 Unit Letter **G** Section **8** Range **5 WEST** County **RIO ARriba**
 Actual Footage Location of Well **1610** feet from the **NORTH** line and **1690** feet from the **EAST** line
 Ground Level Elev. **6778** Producing Formations **South Blanco** Pictured Cliffs
 Dedicated Acreage **160** A. rec.

- Outline the acreage dedicated to the subject well by colored pencil or hachure 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 interests 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 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 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. Hesterfeld**
 Position **ADMIN. SUPERV.**
 Company **CONTINENTAL OIL CO.**
 Date **3-15-77**

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.

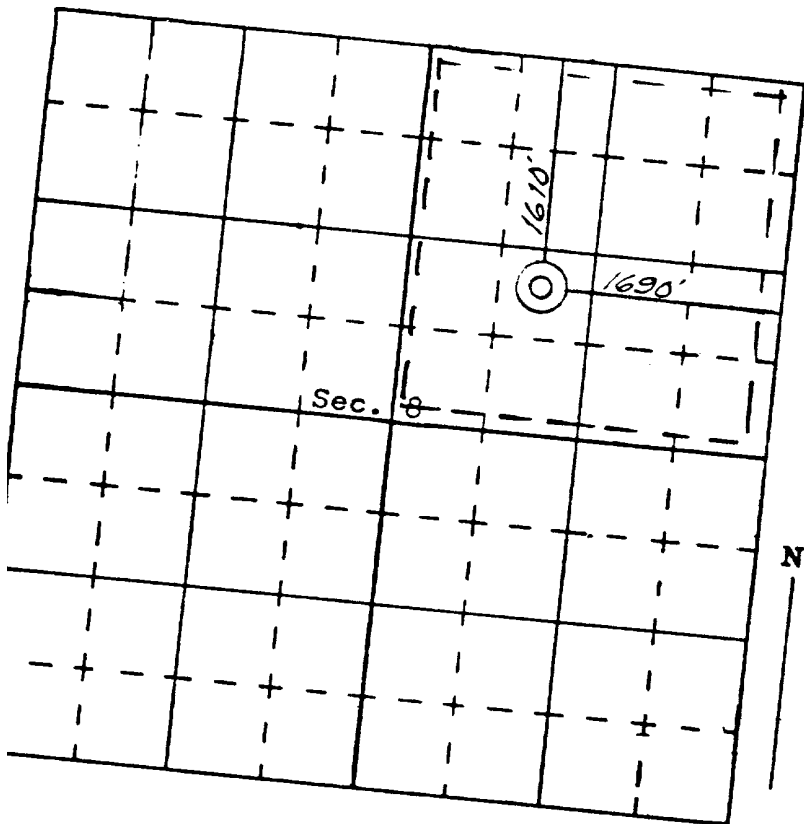
17 February, 1977
 Date Surveyed

James P. Leese
 Registered Professional Engineer
 and/or Land Surveyor

James P. Leese

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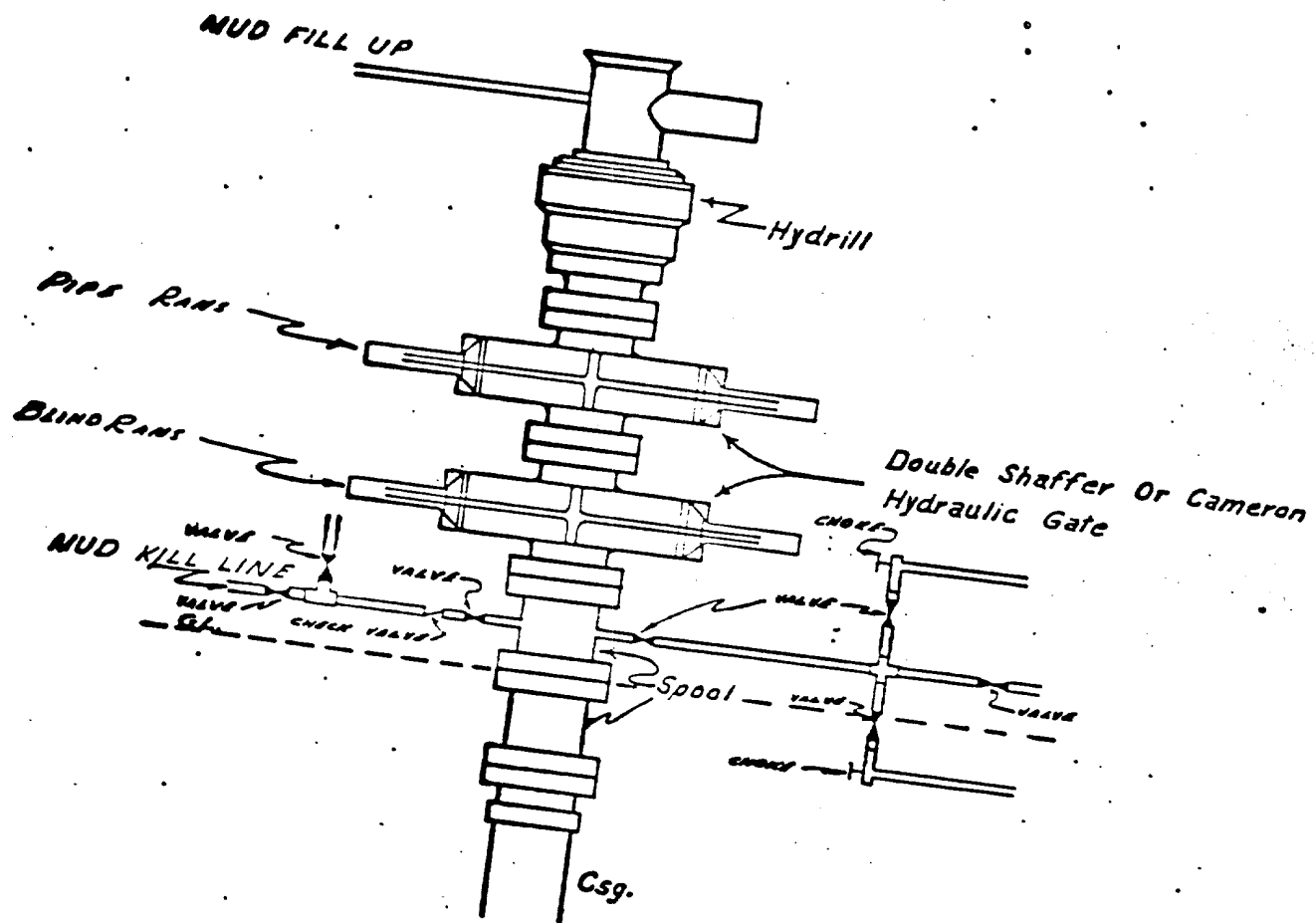
Certificate No.



Elev: Est. 6778 BR

County & State										
Elev: Est. 6778 BR										
DEPTH	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE	CASING		FRACTURE GRADIENT	FORMATION PRESSURE GRADIENT	MUD	
					SIZE	DEPTH			WEIGHT	TYPE
Surface	Crataegus									

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. Remote controls on rig floor.

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

AXI APACHE "J" No. 27

SURFACE USE PLAN
Continental Oil Company, AXI Apache J No. 27
1610' FNL and 1690' FEL of Section 8, T-25N, R-5W
Lease Contract No. 147, 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 1610' FNL and 1690' FEL of Section 8, T-25N, R-5W, Rio Arriba County, New Mexico.
- B. Exhibit "A" is a portion of a AXI Apache "J" Lease map showing existing roads and proposed new road and 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. Tank Batteries: One 400-barrel tanks and a production unit will be located on well site.
- B. 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: Juniper, sage, chico brush.
- 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. Archaeological Survey of location completed by a representative of the Cultural Resource Management Program, New Mexico State University, San Juan Campus.

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
Farmington, New Mexico 87401
Phone: (505) 327-9557

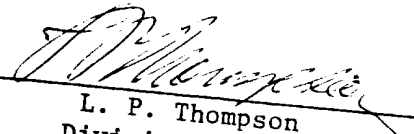
L. P. Thompson
1001 North Turner
Hobbs, New Mexico 88240
Phone: (505) 393-4141

13. Certification

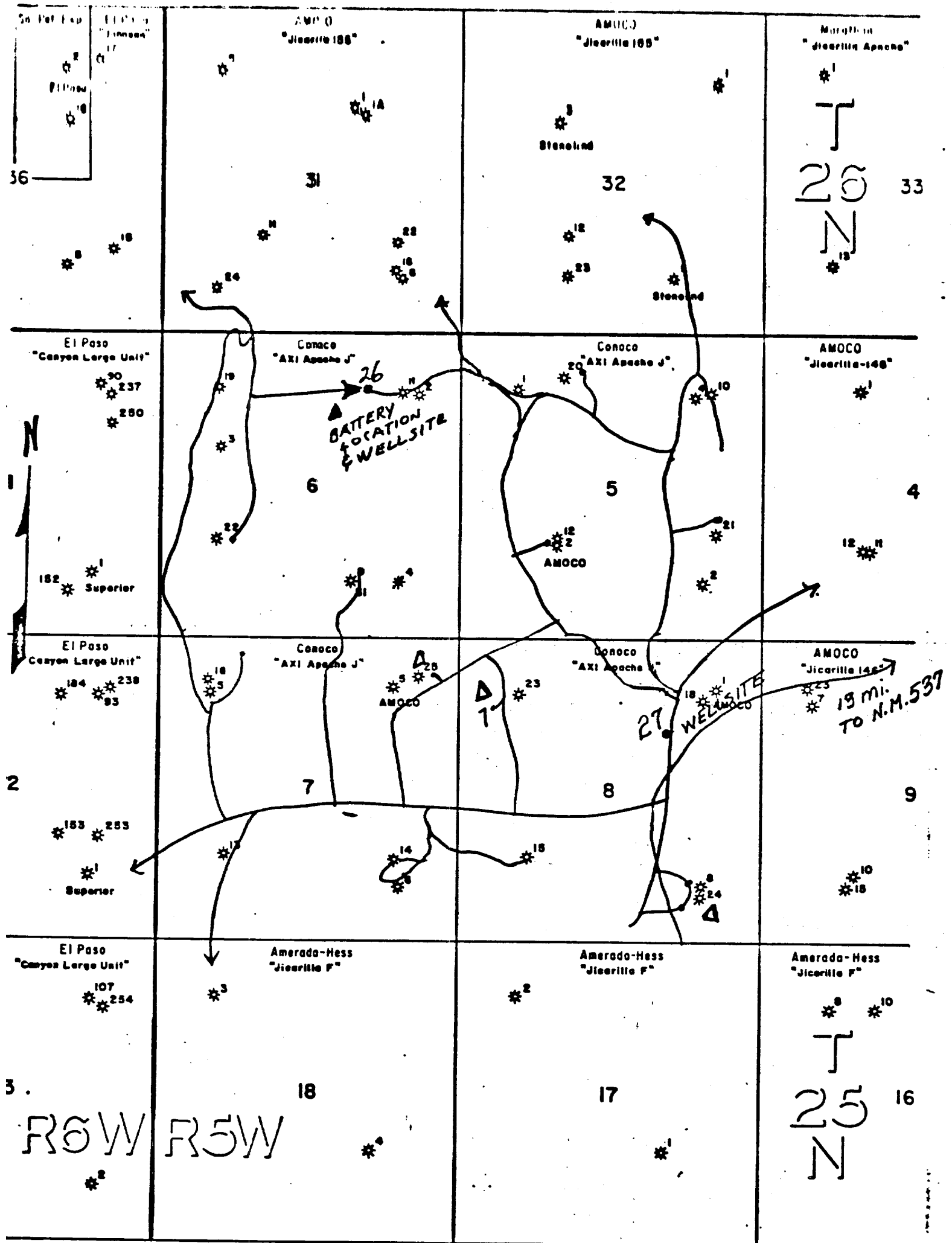
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated 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

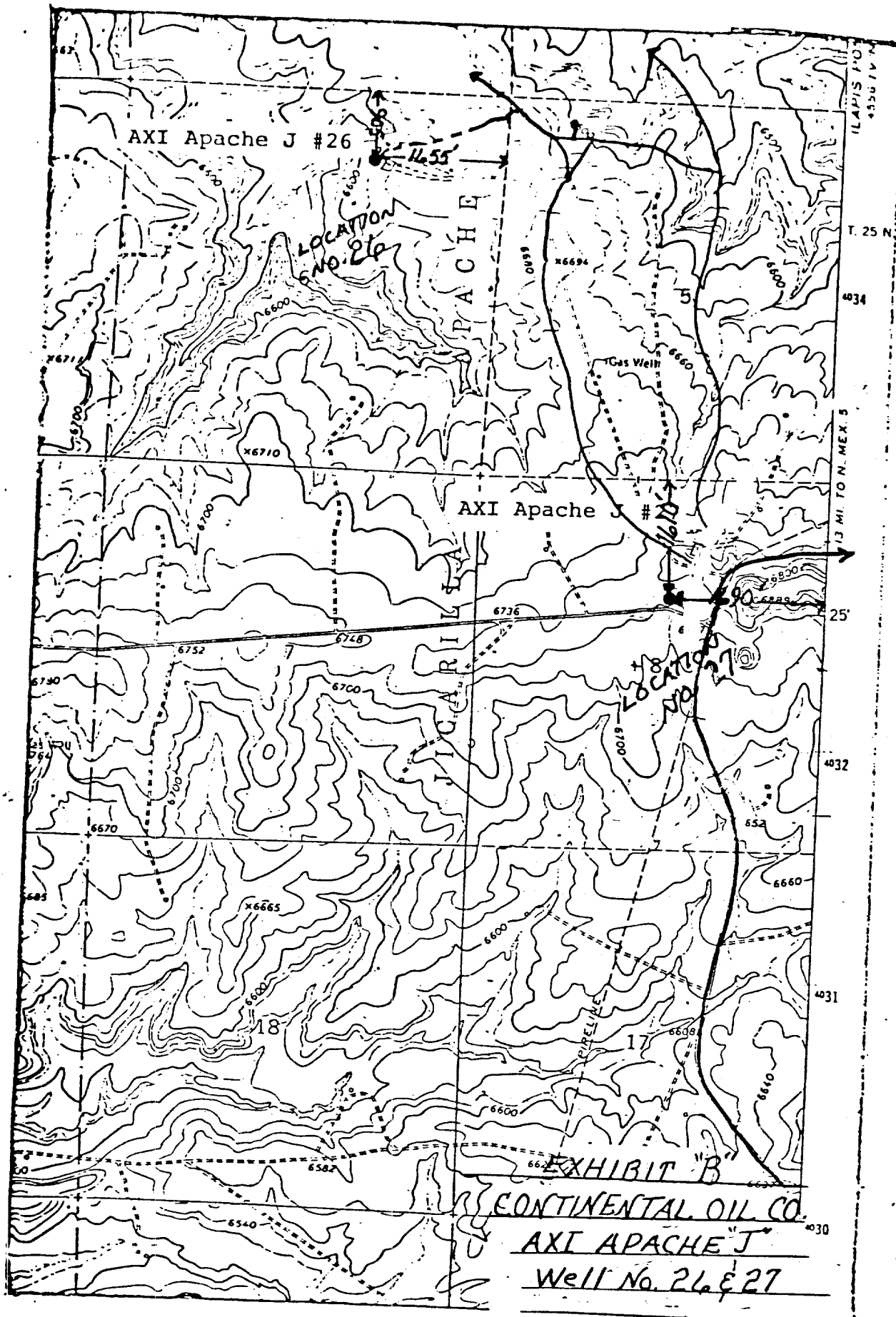
Date



L. P. Thompson
Division Manager



(conoco)	
PRODUCTION DEPARTMENT	HOBBBS DIVISION
AXI APACHE J LEASE RIO ARRIBA COUNTY, NEW MEXICO	
<u>EXHIBIT "A"</u>	
<u>AXI APACHE "J"</u>	
<u>Well No. 26 & 27</u>	
ERW	



MUD PIT

PIPE TUB
PIPE TUB
PIPE TUB
PIPE TUB

PIPE RACK

CAT WALK

PIPE RACK

SUB BASE

WELL
○

SUB BASE

DOG HOUSE

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

MUD TANK

WATER TANK

CHANGE HOUSE

PUMP

PUMP

MUD TANK

HOPPER HOUSE

GEN.

ACC.

TRASH
PIT
8' x 4' DEEP

RIG SITE DIMENSIONS
160' x 200'

CONTINENTAL OIL COMPANY
PRODUCTION DEPARTMENT



RIG LAYOUT
EXHIBIT "C"

AXI Apache "J" No. 27