

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, N.M. 88240

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

At surface

G 1650' FNL + 1650' FEL

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 drilg. 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.)

7170' GR.

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/2"	New 8 1/2"	24	1000'	700 SK Circ.
7 7/8"	New 5 1/2"	16.5	8050'	1375 SK

IT IS Proposed To Drill A Straight Hole To A T.D.
OF 8050' and complete AS A West Lindrith Gallup
Dakota oil well.

See Attached For B.O.P. 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.

SIGNATURE

TITLE

Admin. Supv.

DATE

12-14-77

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

USGS-Durango (1), EIP 50, MJL, BEA, File (2)

30-C39-21590

5. LEASE DESIGNATION AND SERIAL NO.

Contract No. 66

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Ticari, 1/2 Apache

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Ticari, 1/2 28

9. WELL NO.

16

10. FIELD AND POOL, OR WILDCAT

W. Lindrith Gallup Dakota.

11. SEC., T., R., M., OR BLK.

AND SURVEY OR AREA

Sec. 34, T-25N, R-4W

12. COUNTY OR PARISH

13. STATE

Rio Arriba

N.M.

17. NO. OF ACRES ASSIGNED
TO THIS WELL

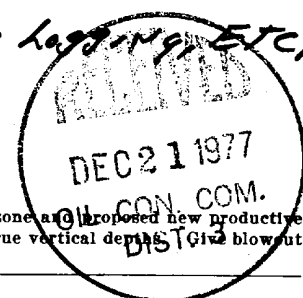
160

20. ROTARY OR CABLE TOOLS

Rotary

22. APPROX. DATE WORK WILL START*

1-30-78



RECEIVED

DEC 19 1977

U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

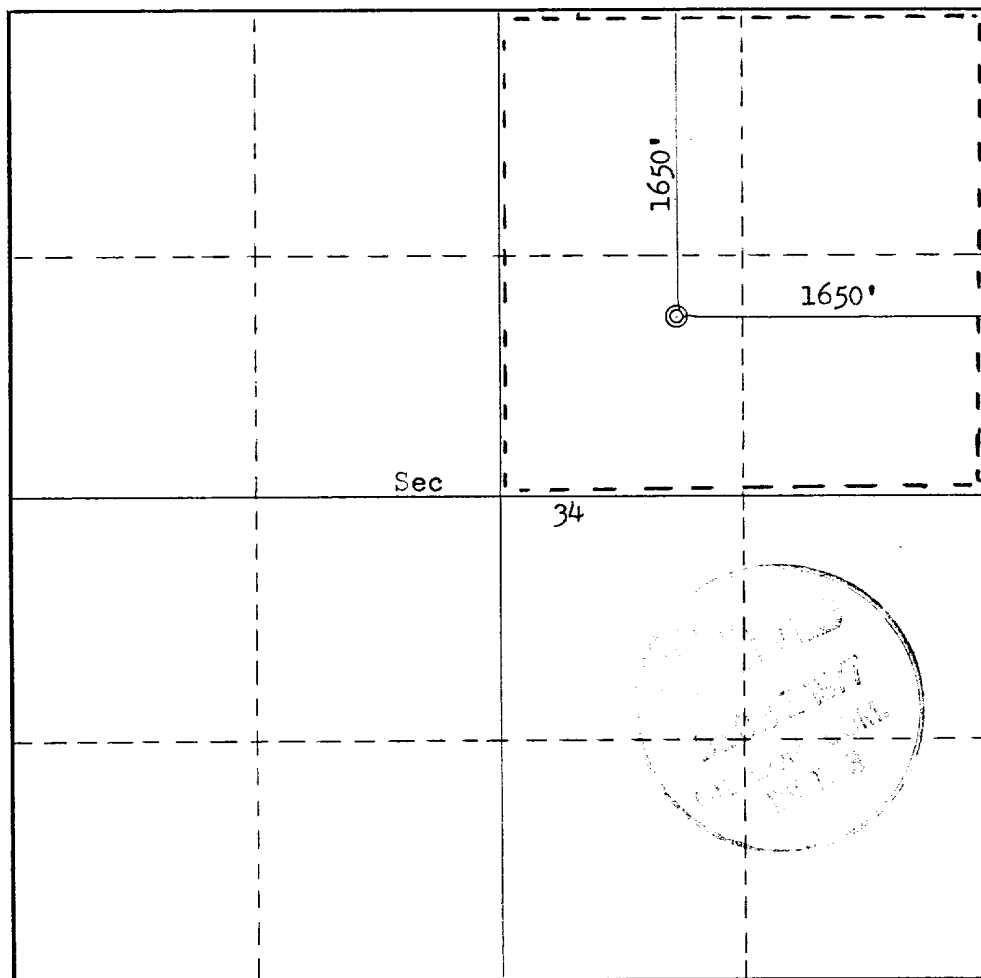
Operator Continental Oil Company			Lease Jicarilla 28		Well No. 16
Unit Letter G	Section 34	Township 25N	Range 4W	County Rio Arriba	
Actual Footage Location of Well: 1650 feet from the North line and 1650 feet from the East line					
Ground Level Elev. 7170	Producing Formation Gallup-Dakota		Pool West Lindrieth	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 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 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 interests, has been approved by the Commission.



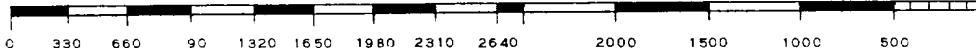
CERTIFICATION

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

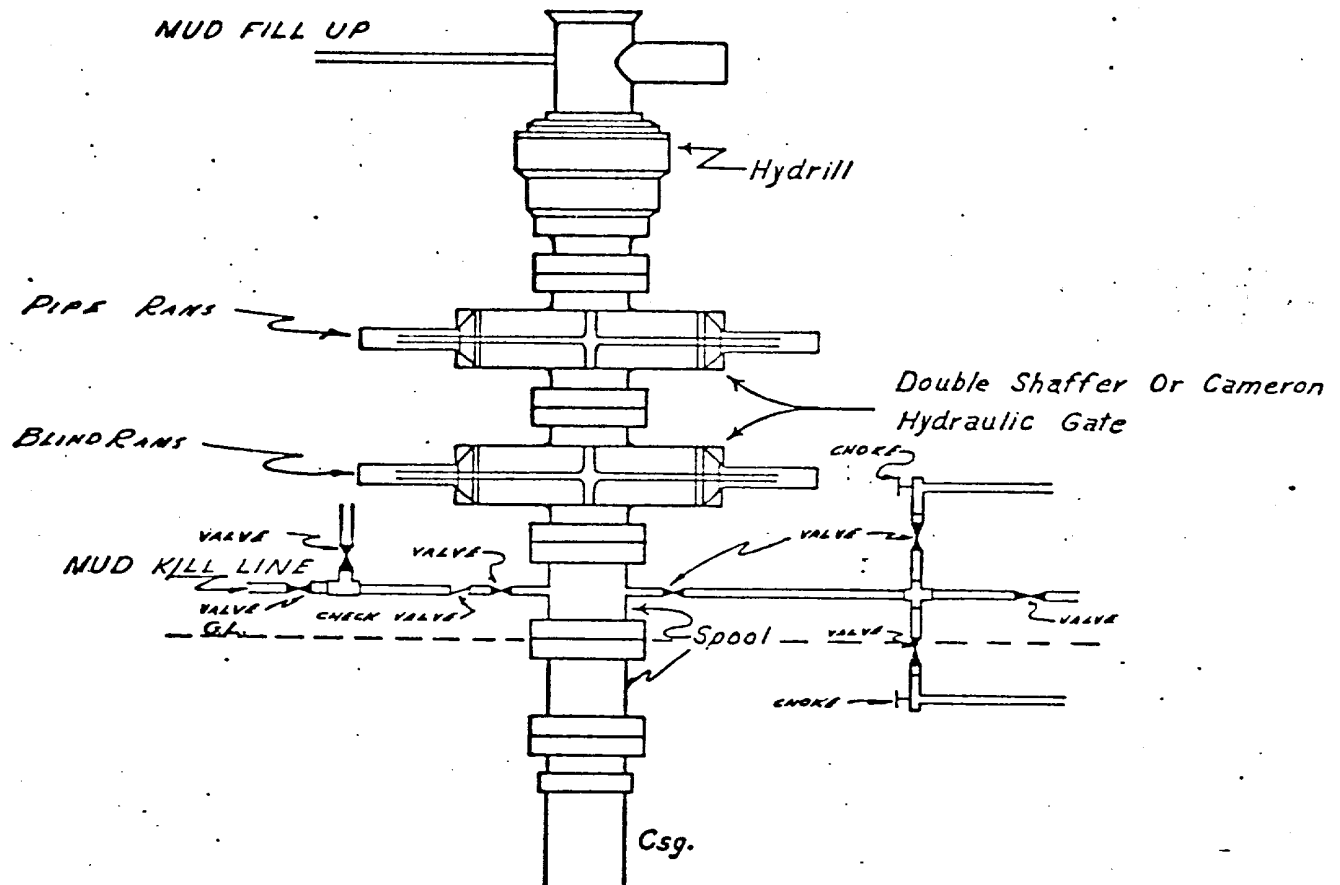
Name
Wm. A. Butterfield
Position
Admin. Supv.
Company
CONTINENTAL OIL CO.
Date
12-14-77

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
November 16, 1977
Registered Professional Engineer and/or Land Surveyor
Fred B. Kerr Jr.
Certificate No.
3950



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.

Jicari/2 28 #16

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

Continental Oil Company, Jicarilla 28 No. 16
1650' FNL and 1650' FEL of Section 34, T-25N, 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 1000'
 Production - new 5 1/2" 15.5# K-55 set at 8050'
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:

 0-1000' Fresh Water 8.5-9.0 pounds per gallon
 1000'-8050' 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 3200' and GR CAL CNL FDC 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 January 30, 1978, with a duration date of approximately 25 days.

WELL NAME: Jicarilla 28 #16

COUNTY: Rio Arriba

LOCATION: 1650 FNL & 1650 FEL

STATE: NIM

Sec. 34, T25N, R4W

Est. 7180 KB

Proposed wall p/n

Est. 7165 GL

DEPTH	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE (IN)	CASING		FRACTURE GRADIENT (PPG)	FORMATION PRESSURE GRADIENT (PPG)	MUD	
					SIZE (IN)	DEPTH (FT)			WEIGHT (PPG)	TYPE
000	Cretaceous		GEOLOGRAPHY SURFACE TO	12 1/4	8 5/8	1000	-	-	8.5 TO 9.0	FRESH WATER GEL
000	Ojo Alamo ss. 2870									
000	Kirtland sh, 3070									
000	Pic. Cliffs ss, 3400									
000	Chacra ss, 4330									
000			Well Logs							
000			SP-IES							

SURFACE USE PLAN
Continental Oil Company, Jicarilla 28 No. 16
1650' FNL and 1650' FEL of Section 34, T-25N, R-4W
Lease Contract No. 66, Rio Arriba County, NM

The 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 1650' FNL and 1650' FEL of Section 34, T-25N, R-4W, Rio Arriba County, New Mexico
- B. Exhibit "A" is a portion of a Jicarilla 28 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

The access road is approximately 2500' long approaching the well from the east. 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: Two 400-Bbl. 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 (See Exhibit "C").

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 "D". All detrimental waste will be buried with a minimum cover of 24" of dirt. See Exhibit "D" for location of pits.

8. Ancillary Facilities

None

9. Well Site Layout

Exhibit "D" 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: Broken, the well is located on a ridge interrupted by arroyos and steep slopes. The land slopes to the west. See Exhibit "B", topographic map of area.
- B. Soil: Sandy loam with sandstone outcrops.
- C. Vegetation: Juniper, pinon, mountain mahogany, antelope brush, prickly pear cactus, gambels oak, broom snakeweed, blue grama, rabbitbrush, and indian rice grass.
- 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
Farmington, NM
Phone: (505) 327-9557

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

E. L. Oshlo
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.

12-15-77

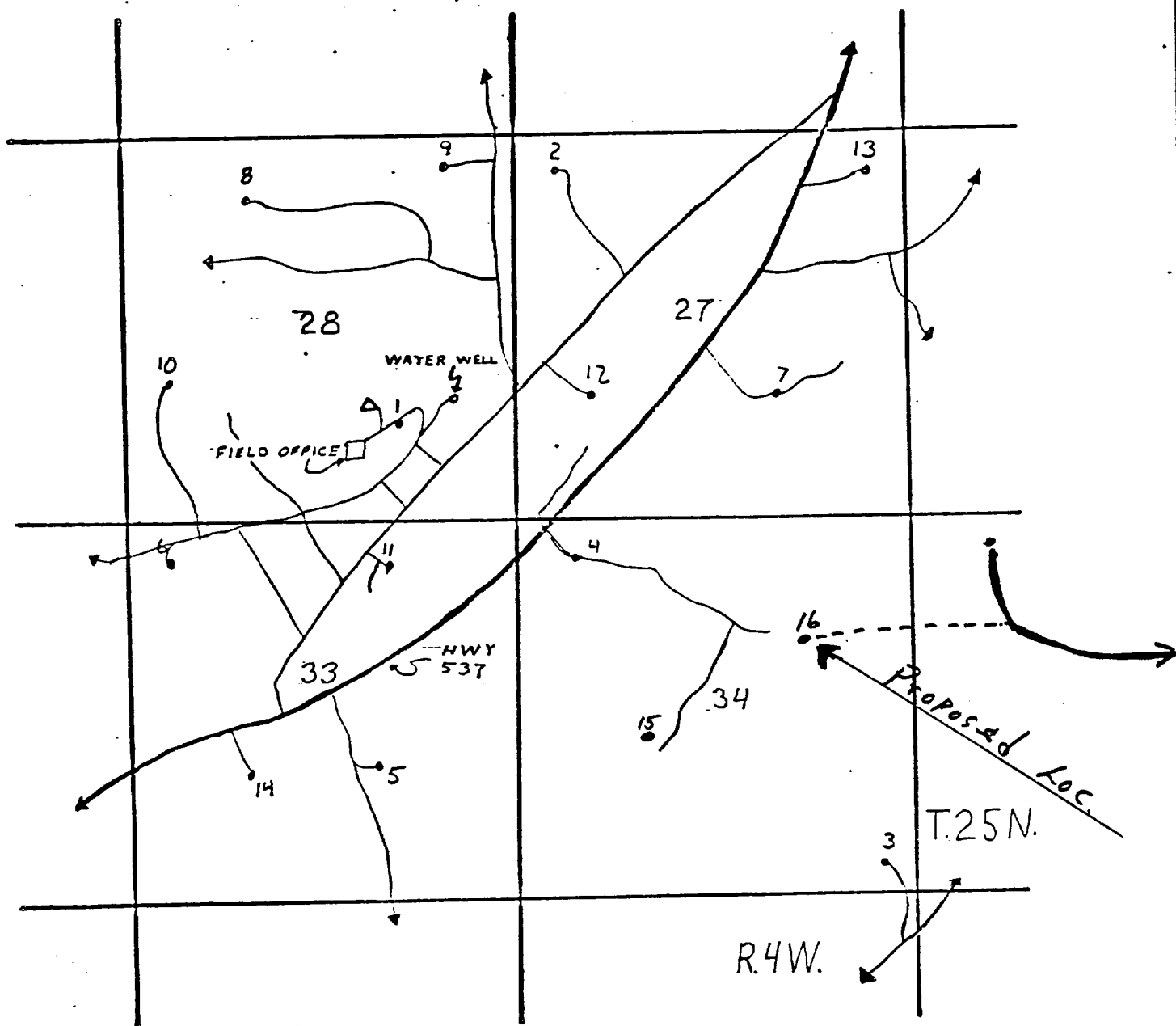
DATE



ELO

E. L. Oshlo
Assistant Division Manager

rej



CONOCO

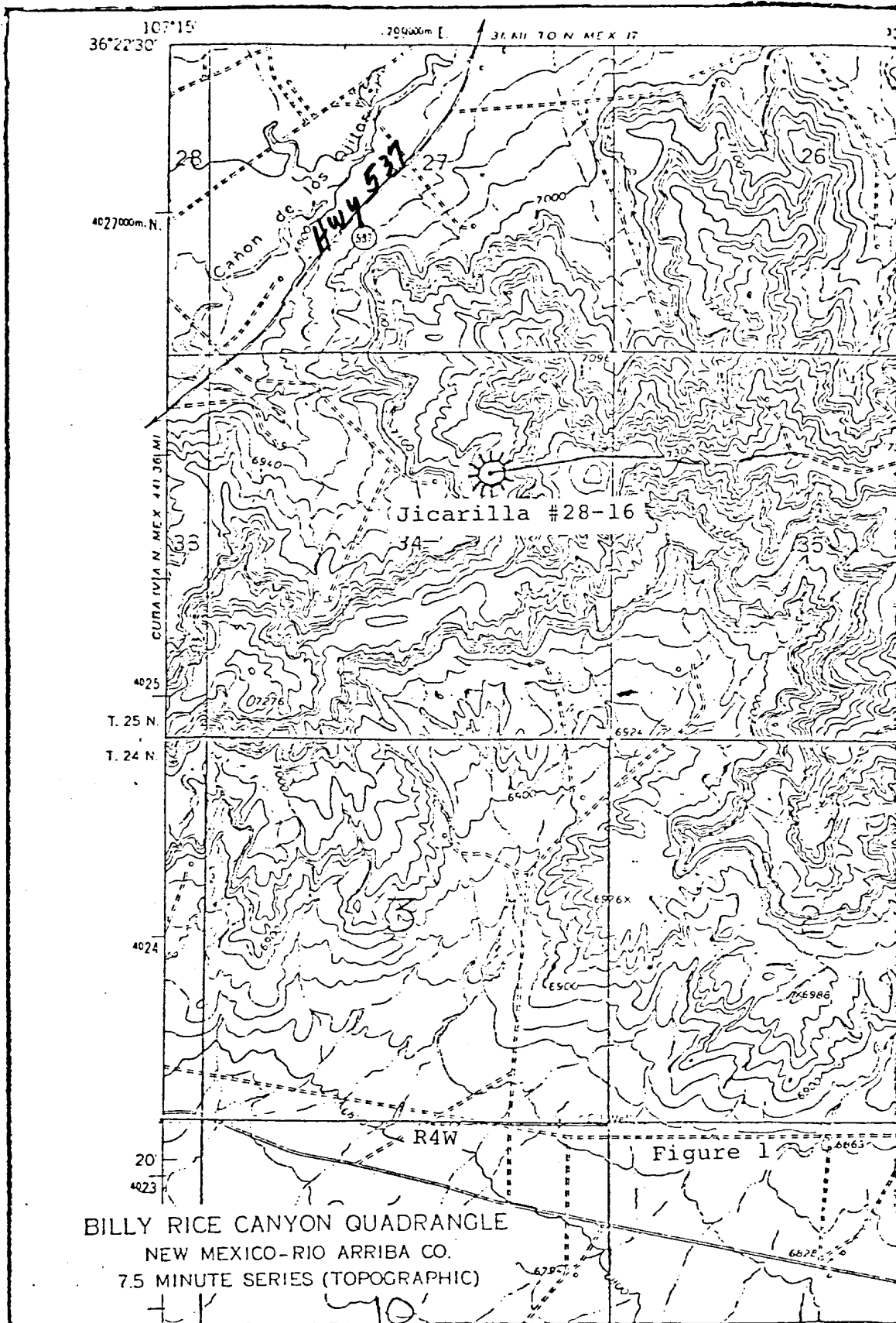
PRODUCTION DEPT. HOBBS DIV.
JICARILLA "28" LEASE
Well No. 16

LEGEND

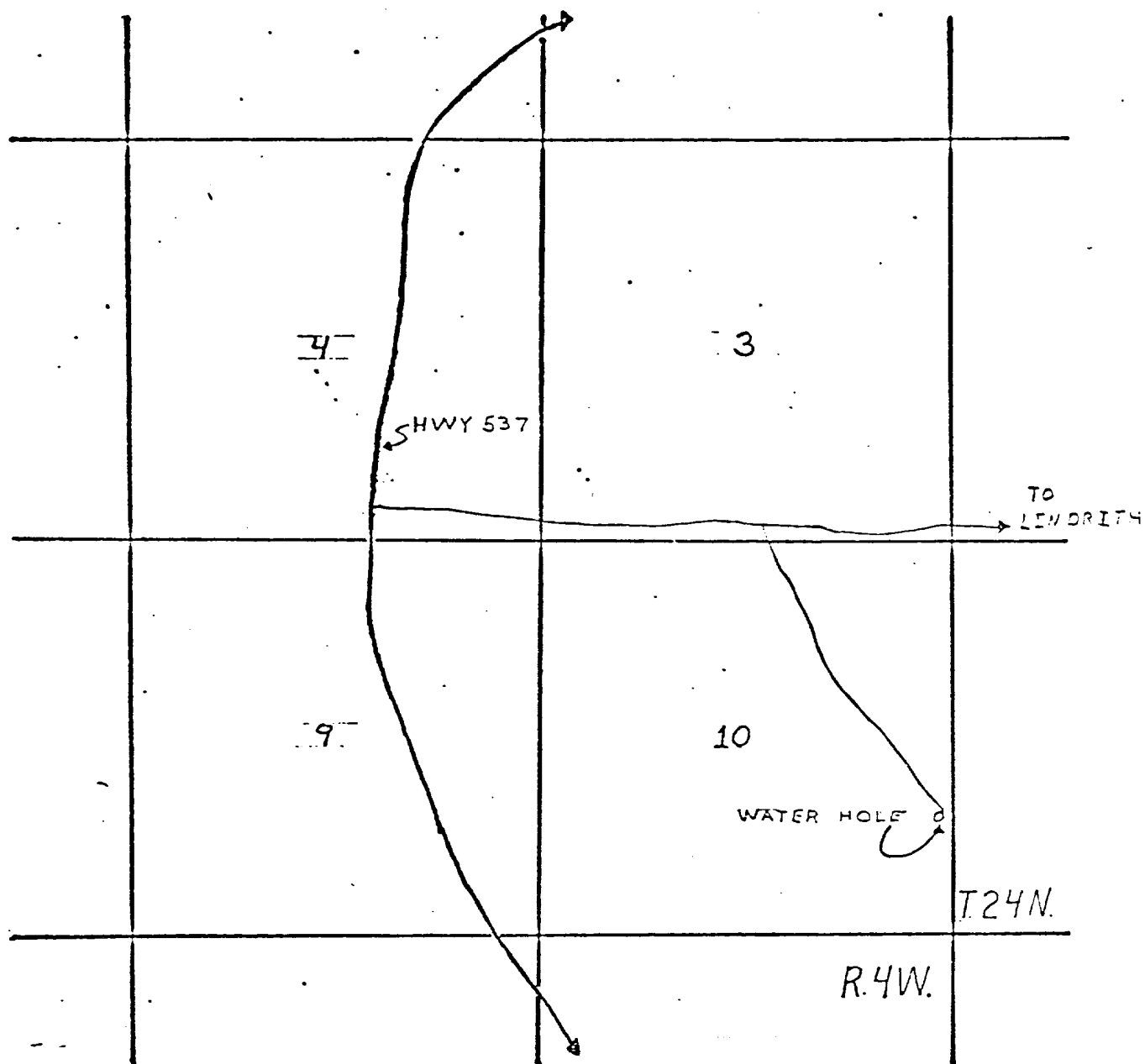
- CONOCO WELL
- ▲ TANK BATTERY
- LEASE ROAD
- HWY.

EXHIBIT "A"

NTS
CHAVEZ



Continental Oil Co.
 Jicarilla 28 #16
 EXHIBIT "B"



CONOCO

PRODUCTION DEPT. HOBBS DIV.

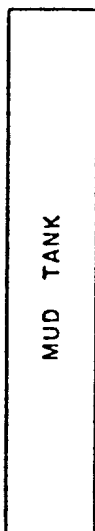
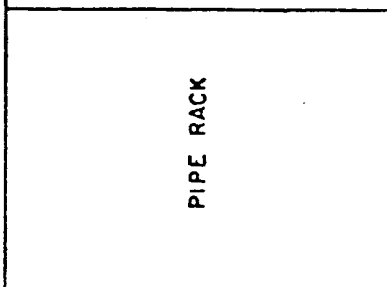
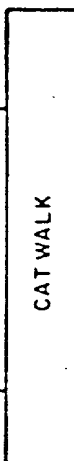
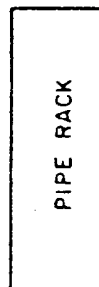
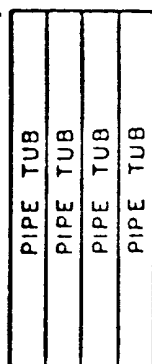
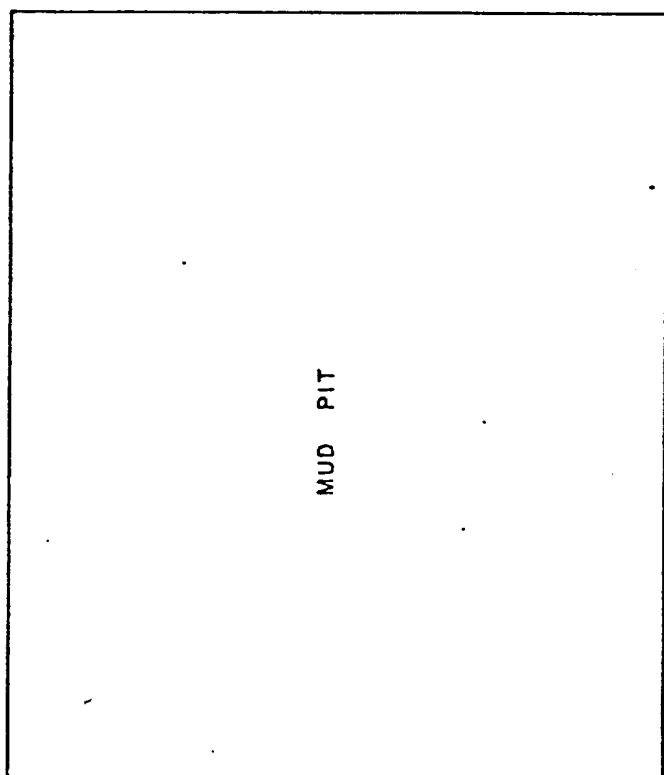
LARGO WATER HOLE

LEGEND

- CONOCO WELL
- △ TANK BATTERY
- LEASE ROAD
- HWY.

NTS
CHAVEZ

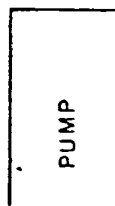
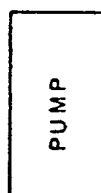
EXHIBIT "C"



WELL
O



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



HOPPER
HOUSE



TRASH
PIT
4' deep
8'
8'

APPROX. RIG SITE DIMENSIONS:
160' x 200'

CONTINENTAL OIL COMPANY
PRODUCTION DEPARTMENT



RIG LAYOUT

Jicari 11/2 28 #16

EXHIBIT "D"

Engineer: [REDACTED]

Draftsman: [REDACTED]

Date: 1-4-73