

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-039-21335

5. LEASE DESIGNATION AND SERIAL NO.  
**Contract No. 66**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
**Jicarilla Apache**

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
**Jicarilla 28**

9. WELL NO.  
**15**

10. FIELD AND POOL, OR WILDCAT  
**W. LINDRITH GALLUP-**

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
**Sec. 34, T. 25N, R. 4W**

12. COUNTY OR PARISH  
**Rio Arriba**

13. STATE  
**NM**

## 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  
**2310' FSL & 1580' FWL OF SEC. 34**  
At proposed prod. zone  
**SAME**

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 drilg. unit line, if any)16. NO. OF ACRES IN LEASE  
**2560**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  
**7750'**20. ROTARY OR CABLE TOOLS  
**ROTARY**

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

**7010' GR**

22. APPROX. DATE WORK WILL START\*

**April 10, 1977**

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
<b>12 1/4"</b>	<b>8 3/8"</b>	<b>24 #</b>	<b>1200'</b>	<b>500 SX - Circ</b>
<b>7 7/8"</b>	<b>4 1/2"</b>	<b>11.6 #</b>	<b>7750'</b>	<b>1150 SX</b>

IT IS Proposed to Drill A Straight Hole to A  
T.D. OF 7750' & Complete AS A West Lindrith  
Gallup Dakota Oil Well.

MUD PROGRAM: 0-1200', FRESH WATER; 1200-7750', FRESH  
WATER GEL, 8.5-9.0 #.

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. SIGNED **Wm. A. Dunsen** TITLE **ADMIN. SUPV.** DATE **3-8-77**

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

**Okal****St**

\*See Instructions On Reverse Side

**USGS-Durango (6), El Paso, MJL, BEA, File**

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

All distances must be from the outer boundaries of the Section

Operator <b>CONTINENTAL OIL COMPANY</b>			Lease <b>JICARILLA #28</b>		Well No. <b>15</b>
Unit Letter <b>K</b>	Section <b>34</b>	Township <b>25 NORTH</b>	Range <b>4 WEST</b>	County <b>RIO ARriba</b>	
Actual Footage Location of Well: <b>2310</b> feet from the <b>SOUTH</b> line and <b>1580</b> feet from the <b>WEST</b> line Ground Level Elev. <b>7010</b> Producing Formation <b>Gallup-Dakota.</b> Pool <b>West Lindrieth</b> Dedicated Acreage: <b>160</b> Acres					

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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. Butterfield  
 Position ADMIN. SURV.  
 Company CONTINENTAL OIL Co  
 Date 3-8-77

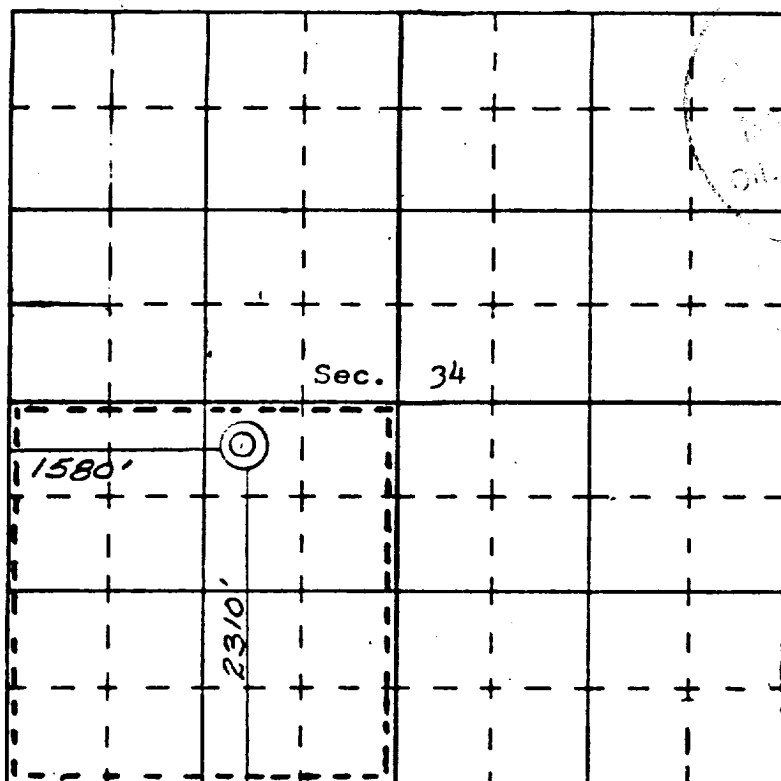
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

24 January, 1977  
 Date Surveyed

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

**1463**

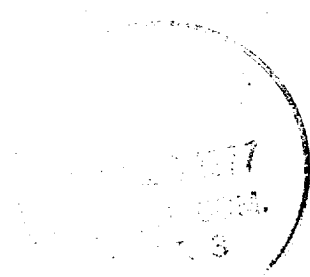
Certificate No.



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

Continental Oil Company, Jicarilla 28 No. 15  
2310' FSL and 1580' FWL 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 1200'  
    Production - new 4 1/2" 11.6# K-55 set at 6850'
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:  
  
    0-1200' Fresh Water,                      8.5-9.0 pounds per gallon  
    1200' - 7750' Fresh Water Gel,      9.0-10.0 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 3100' 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 April 10, 1977, with a duration date of approximately 21 days.



Jicarilla 28 No. 15

Rio Arriba, N. Mex.

Well Name 2310' FSL 41580' FWL

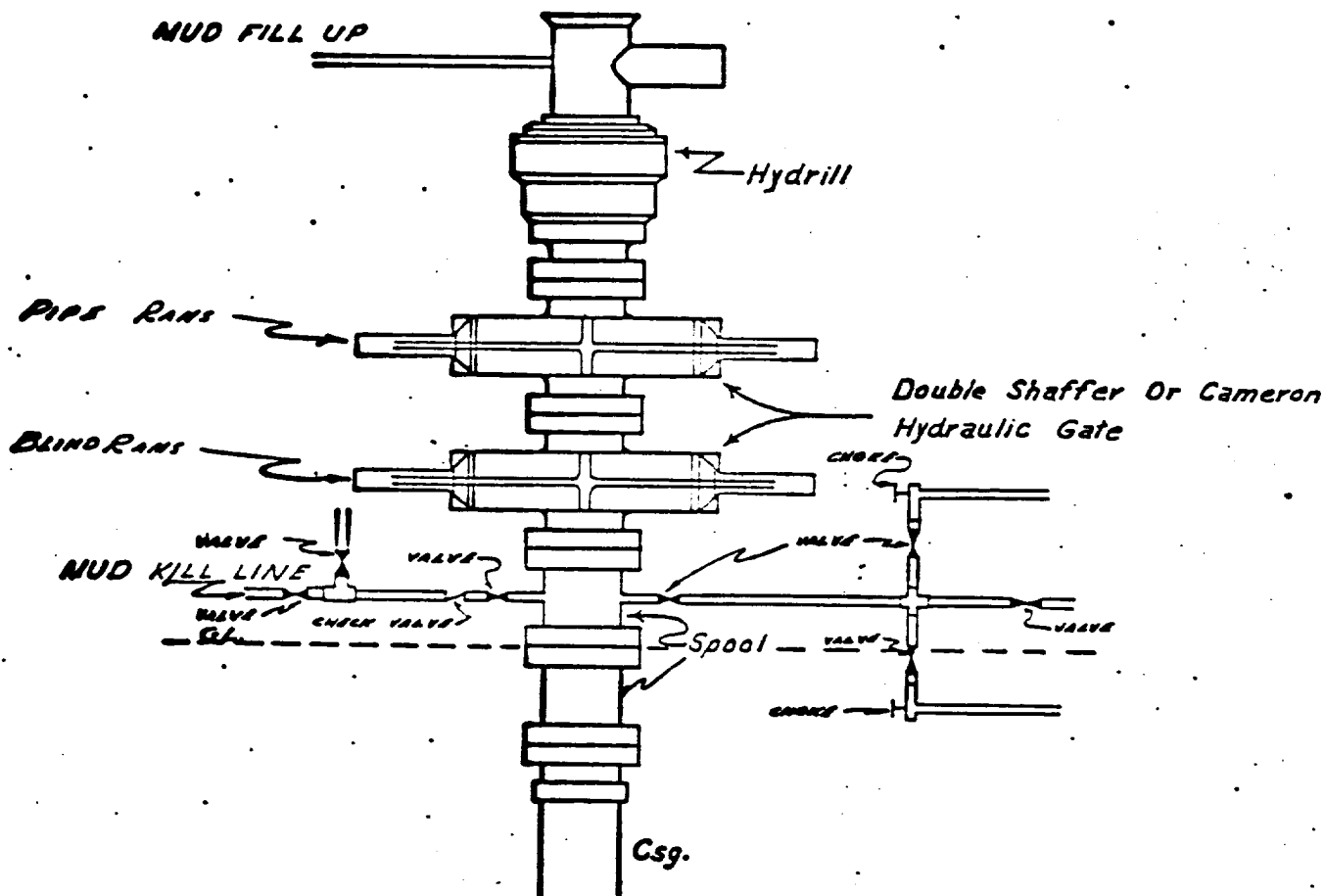
County &amp; State

Location: Sec. 34, T25N, R4W

Elev: Est. 7052 KB

DEPTH	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE	CASING		FRACTURE GRADIENT	FORMATION PRESSURE GRADIENT	MUD	
					SIZE	DEPTH			WEIGHT	TYPE
4000	Cretaceous									
333	Fresh Wtr. sd. 0-1200'			12 1/4	8 5/8	1200			8.5 9.0	FRESH WATER
290	Kirtland 2900 Shale		Well Logs							
280	Fruitland 3080 Gas		SP - IES							
240	Pic. Cliffs 3240 Gas		TD - 2100'							
			2" & 5" SCALES							
200	Chacra 4120 Gas & Water		GR - CAL - CNL FDC							
			SELECTED INTERVALS							
200	Cliff House 4910 Gas & Water		2" & 5" SCALES							
200	Point Lookout 5390 Gas		PDC							
			SELECTED INTERVALS							
200	Gallup 6590 Oil									
200	Greenhorn 7370 Oil									
	D 7450									
	J 7600									
	M 7700									
200	TD 7750			7 7/8	4 1/2	7750			8.5-9.0	FWL

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.

JICARILLA 28 No. 15