

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  
**P. O. Box 1621, Durango, Colorado**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)  
**990' FSL, 990' FEL**  
 At proposed prod. zone

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) **990**

16. NO. OF ACRES IN LEASE  
**2560**

17. NO. OF ACRES ASSIGNED TO THIS WELL  
**40**

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
**None**

19. PROPOSED DEPTH  
**5200'**

20. ROTARY OR CABLE TOOLS  
**Rotary**

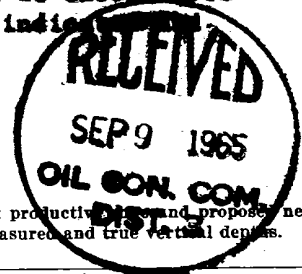
21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**5960' GR, ungraded**

22. APPROX. DATE WORK WILL START\*  
**9-9-65**

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"	24#	200'	100 sacks
7 7/8"	4 1/2"	10.5#	5200'	450 sacks

We propose to drill the subject well to an approximate depth of 5200' to test the Gallup Formation. Samples will be taken at 30' intervals from surface to 2000' and at 10' intervals from 2000' to T.D. The well will be cored, and the Gallup sand will be drillstem tested if porosity is indicated in cores. If commercial production is encountered a production string of casing will be run as indicated and the well completed.



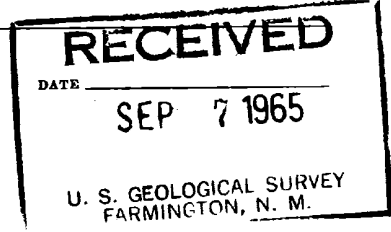
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. Original Signed By:  
 SIGNED H. D. HALEY TITLE District Manager DATE 9-7-65

(This space for Federal or State office use)

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

APPROVED BY [Signature] TITLE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:



\*See Instructions On Reverse Side

## Instructions

**General:** This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

**Item 1:** If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 14:** Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

**Items 15 and 18:** If well is to be, or has been, directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

**Item 22:** Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form 1-17-64  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section

Owner <b>Continental Oil Company</b>		Lease <b>Cottonwood Arroyo</b>		Well No. <b>1</b>
Tract Letter <b>P</b>	Section <b>21</b>	Range <b>27 North</b>	County <b>14 West</b>	County <b>San Juan</b>
Approximate Location of Well: 990 feet from the <b>South</b> side of 990 feet from the <b>East</b> line				
Ground Elev. <b>5960' ungraded</b>	Formation <b>Gallup</b>	Pool <b>Wildcat</b>	Dedicated Acreage <b>40</b> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

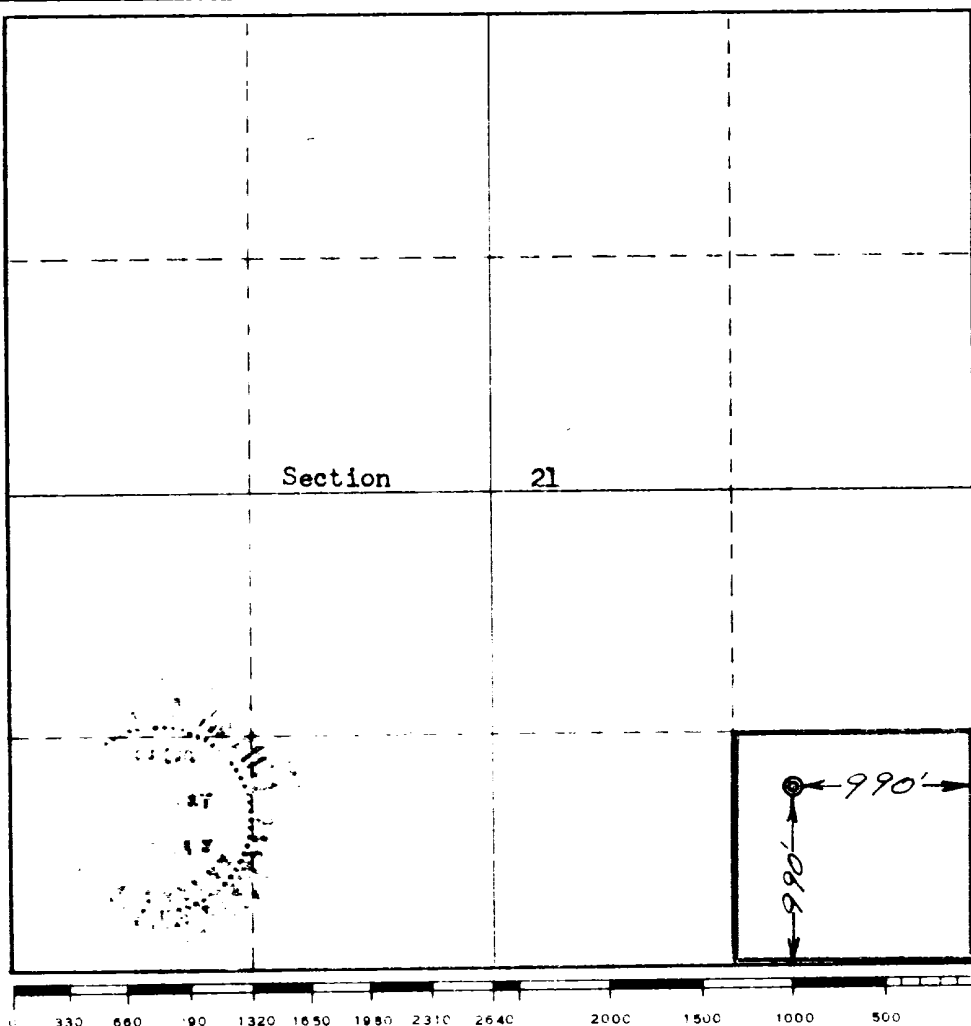
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interests of all leases 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.

Original Signed By:  
**H. D. HALEY**

Name  
**H. D. Haley**

Position  
**District Manager**

Company  
**Continental Oil Company**

Date  
**9-7-65**

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  
**5 August 1965**

Registered Professional Engineer in the State of New Mexico  
*Robert H. Ernst*  
**ROBERT H. ERNST**

Certificate No.  
**N. Mex. PE & LS 2463**