

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 #60, Hobbs, N.M. 88240

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

At surface

1980' FSL &amp; 660' FWL of Sec. 26

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)

550' 20' 10"

## 16. NO. OF ACRES IN LEASE

1920

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

GEOLOGICAL SURVEY

## 19. PROPOSED DEPTH

6850'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

## 20. ROTARY OR CABLE TOOLS

ROTARY

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

3546' GR.

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

6-1-77

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8" New	32.30#	1600'	650 SX. CIRC.
8 3/4"	7" New	23 & 26#	6850'	1100 SX.

IT IS PROPOSED TO DRILL A STRAIGHT HOLE TO A  
T.D. OF 6850' & COMPLETE AS A DUAL OIL  
WELL IN THE BLINEBRY & TUBB ZONES

SEE ATTACHED FOR B.O.P. PROGRAM, MUD PROGRAM,  
FORMATION TOPS, LOGGING, ETC

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

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. [Signature] TITLE Admin. Supv.

DATE

2-23-77

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

Unless [Signature] has  
Commenced, this [Signature] approval  
Expires [Signature] 2-26-77  
\*See Instructions On Reverse Side

APPROVED  
AS AMENDED

MAR 21 1977

BERNARD MOROZ

ACTING DISTRICT ENGINEER

USGS(6), NMFU PARTNERS (4), FILE

OIL CONSERVATION COMM.  
HOBBS, N. M.

MAR 22 1977

FILE

Attachment to Form 9-331 C  
Application for Permit to Drill

Continental Oil Company, Warren Unit No. 45  
1980' FSL and 660' FWL of Section 26, T-20S, R-38E,  
Lea County, New Mexico

1. The geologic name of the surface formation is Tertiary 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 as follows:  
  
Santa Rosa SS 350' water  
Salado 1670' salt  
Blinebry 6010' oil  
Tubb 6500' oil
4. The proposed casing program is as follows:  
  
Surface - new 9 5/8" 32.30# K-55 STC set at 1600'  
Production - new 7" 23# and 26# K-55 STC 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:  
  
0-1600' spud mud                      8.5-9.0 pounds per gallon  
1600'-6850' salt 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 GR-CNL-FDC-DLL logs from TD to 2600'.
9. No abnormal pressures or temperatures are expected to be encountered in this well.
10. The anticipated starting date for this well is June 1, 1977. with a duration date of approximately 21 days.

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.

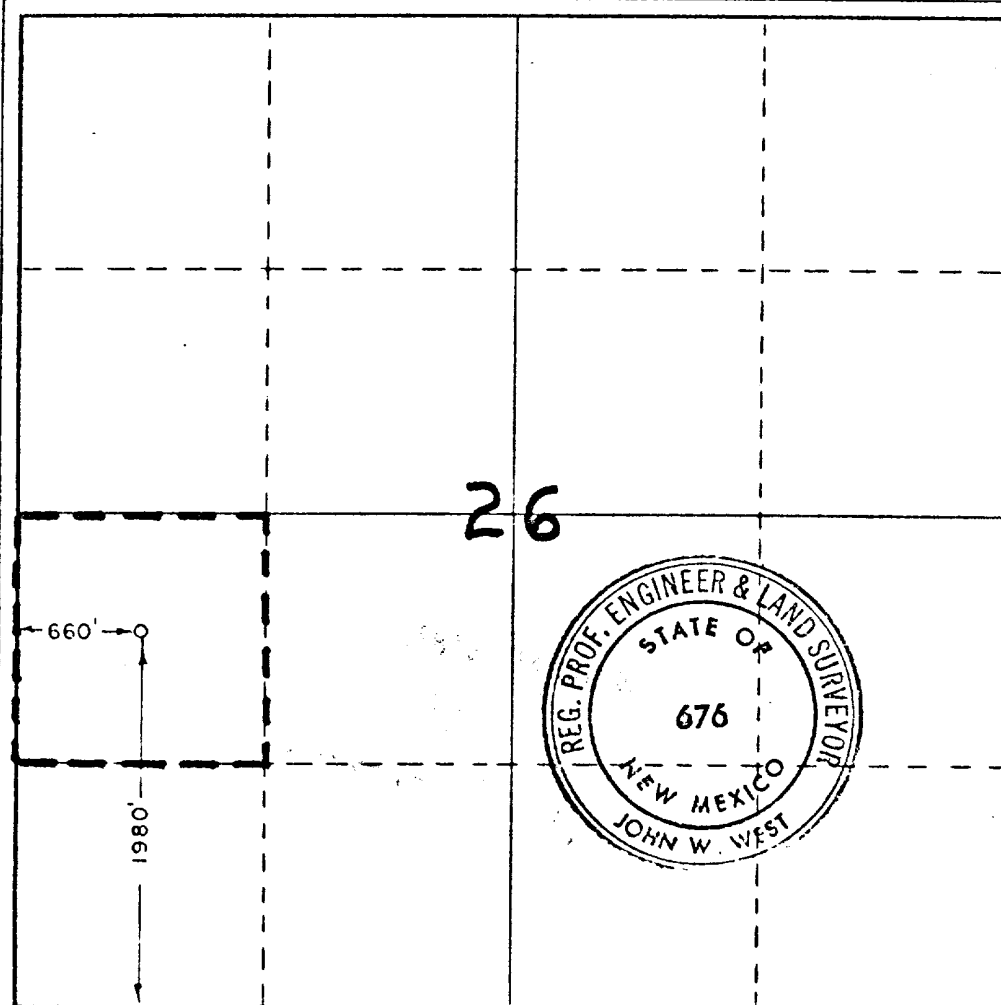
Operator <b>CONTINENTAL OIL COMPANY</b>			Lease <b>Warren Unit</b>		Well No. <b>45</b>
Unit Letter <b>L</b>	Section <b>26</b>	Township <b>20 South</b>	Range <b>38 East</b>	County <b>Lea</b>	
Actual Footage Location of Well: <b>1980</b> feet from the <b>south</b> line and <b>660</b> feet from the <b>west</b> line					
Ground Level Elev. <b>3546.0</b>	Producing Formation <b>BLINEBRY &amp; TURB</b>		Pool <b>WARREN</b>	Dedicated Acreage: <b>40</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 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. SUPERV.**  
Company  
**CONTINENTAL OIL CO.**  
Date  
**2-23-77**

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

**Dec. 5, 1976**

Registered Professional Engineer and/or Land Surveyor

*John W. West*  
Certificate No. **676**

OIL CONSERVATION COMM.  
HOBBS, N. M.

MAR 22 1977

RECEIVED

WARREN UNIT NO. 45

Lea Co. N.M.

Well Name 1980' FSL &amp; 600'

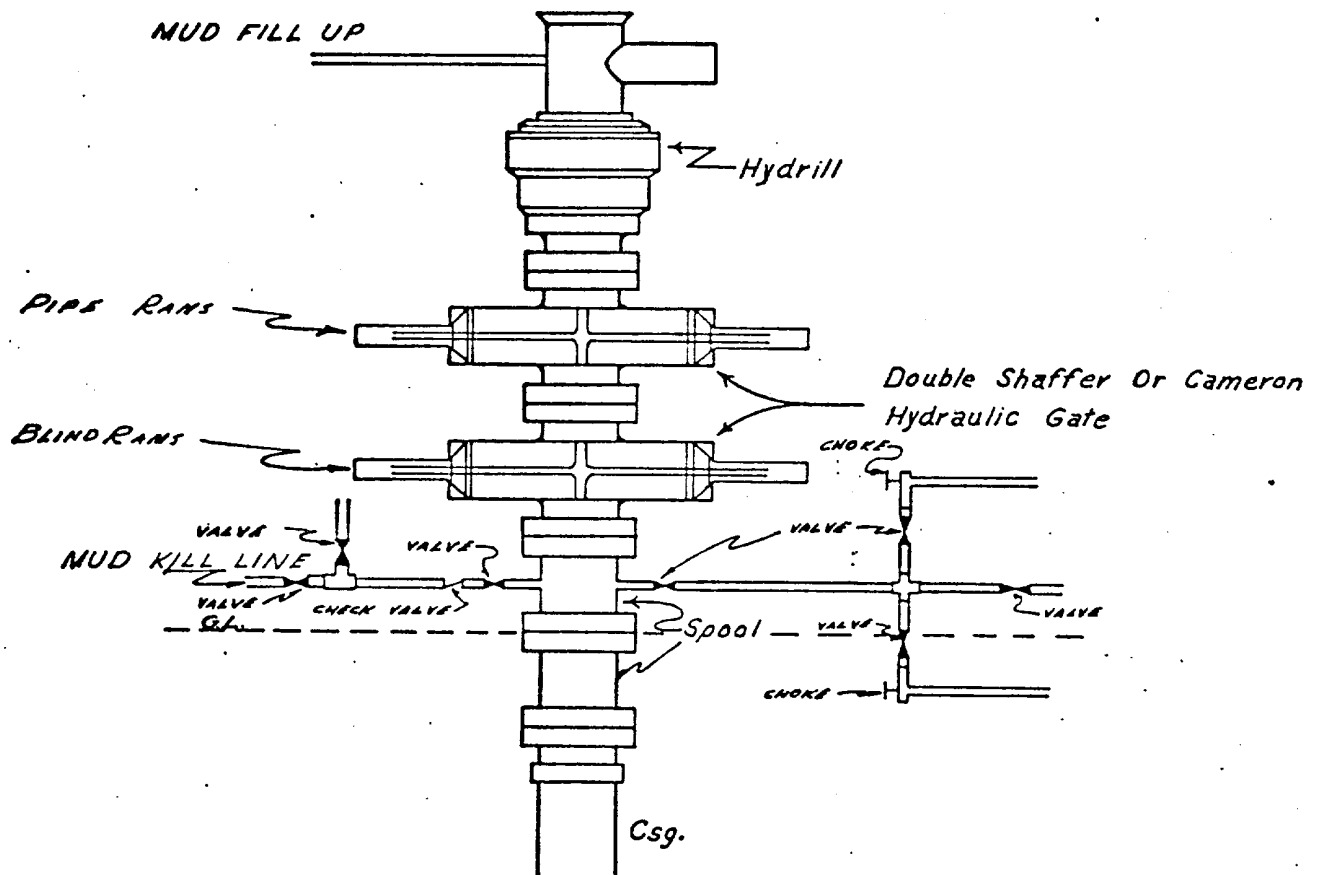
County &amp; State

Location: Sec. 26, T20S-R38E

Elev: 3546' GR.

DEPTH	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE	NEW CASING		FRACTURE GRADIENT (PPG)	FORMATION PRESSURE GRADIENT (PPG)	MUD	
					SIZE	DEPTH			WEIGHT (PPG)	TYPE
350	Tertiary sd. + surface Santa Rosa ss. Water.									
1000										
1500										
1600	RUSTLER 1550' ANHY SALADO 1670' ss/l			12 1/4"	9 5/8"	1600'			8.5- 9.0	Fresh water
2000										
2500										
2600	TANSILL 2720' ANHY YATES 2860' Sand Stone									
3000										
3500	QUEEN 3690' Sand Stone									
4000										
4250	SAN ANDRES 4250' Dol.									
5000										
5500	GLORIETA 5560' Sand Stone		GR-CNL-FDC DLL							
6000	ELINEBRY 6010' Dol. Oil		TD-2600'				14.9	Less than 8.5		
6500	TUBB 6500' Sand Stone - O.I.		Dipmeter							
6800	DRINKARD 6800' Dol.		TD-5500'					Less than 8.5		
7000	TD 6350'			8 3/4"	7"	6850'	15.1		9.0- 10.0	salt gel

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.

(WARREN UNIT WELL NO. 45)

December 15, 1976

District Engineer  
U. S. Geological Survey

Gentlemen:

RE: WARREN UNIT NO. 45

This refers to the Form 9-331C, Application to Drill, Deepen or Plugback accompanying this letter. The undersigned hereby states that he has personally contacted Earl Kornegay, the owner of the surface land where the proposed work is to be conducted and advised him of the proposed work, the construction site and pertinent roads included in the project. It is further stated that, upon being fully advised of the extent of the work and the effect upon the surface, said owner has consented to the said work and that agreement as to the compensation for damages to the surface estate has been reached.

It has been agreed, subject to change at that time, that upon abandonment of operations the roads shall be (ripped or left intact) and the pad shall be (ripped or left intact).

D.A. Sowers

STATE OF NEW MEXICO  
COUNTY OF LEA

Subscribed and sworn to before me this 15th day of December, 1976

W.M. Moore  
Notary Public

My commission expires 2-20-77



SURFACE USE PLAN  
Continental Oil Company, Warren Unit No. 45  
1980' FSL and 660' FWL of Section 26, T-20S, R-38E  
Lease LC063458 , Lea County, NM

The plan is to accompany "Application for Permit to Drill" the subject well which is located approximately ten miles south of Hobbs, New Mexico. 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 1980' FSL and 660' FWL of Section 26, T-20S, R-38E, Lea County, New Mexico.
- B. Exhibit "A" is a portion of a New Mexico road map showing existing black top roads. Directions to the location (outlined in red on map) from Hobbs, New Mexico are as follows: From the Stanolind Road on the south edge of Hobbs travel south 10 miles on Highway 18 and turn left on caliche road to Well No. 44. The road stakes will be north from this point 1320' to the proposed location.
- C, D, E. The access roads are shown on Exhibits "B" and "C".
- F. No improvement or maintenance are anticipated for the existing roads.

2. Planned Access Roads

- A. Width and Length: New road required will be 12' wide and 1320' long. This new road is labeled and color coded on Exhibits "B" and "C". (staked)
- B. Turnouts: None.
- C. Drainage Design: New road will have a drop of 6" from center line on each side.
- D. Culverts, Cuts and Fills: Existing culvert will be utilized under Highway 18 at the point of crossing with the proposed flowline.
- E. Surfacing Material: Six inches of caliche, bladed, watered and compacted.

F. Gates, Cattleguards, Fences: None required.

G. The proposed road is staked.

3. Location of Existing Wells

See Exhibit "C"

4. Location of Existing and/or Proposed Facilities

- A. Tank Batteries: The existing production header is located in the SW/4 of Section 27 and located on Exhibit "C".
- B. Producing Facilities: No additional producing facilities are required.
- C. Oil Gathering Lines: The flowline will lay (not buried) approximately 1300' south and 4500' west to the production header in SW/4 of Section 27 as shown on Exhibit "C".
- D. Other Lines: No additional gas gathering, injection or disposal lines will be required.
- E. 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 Eunice, New Mexico.

6. Source of Construction Materials

- A. Caliche for surfacing the new road and the well pad will be obtained from an existing pit in the SE/SE Section 15, T-20S, R-38E as shown on Exhibit "C".
- B. Caliche to be purchased from Mr. Earl Kornegay.
- C. The caliche will be hauled from the location of caliche pit, as follows: travel 2 miles south on Highway 18 to the caliche road to Well No. 44, and north on new road to location.

7. Methods for Handling Waste Disposal

Waste Disposal: Well cuttings will be disposed in reserve pit. Barrel trash containers to be in accessible locations within

drill site area during drilling and completion procedures. All detrimental waste will be hauled away, burned or buried with a minimum cover of 24" of dirt. See Exhibit "D" for location of pits. If well is productive, maintenance waste will be placed in special trash cans and hauled away periodically. Any produced water will be collected in tanks until hauled to an approved disposal system, or separate disposal applications will be submitted to the survey for appropriate approval.

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. The reserve pit will be lined with plastic. The pad and pits are staked.

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 and rehabilitation of the surface is planned to be completed within 45 days from commencement.

11. Other Information

- A. Terrain: Low rolling sand hills. See Exhibit "B", topographic map of area.
- B. Soil: Sandy
- C. Vegetation: Shinnery, Sparse
- D. Surface Use: 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.: There are no significant surface features, see attached 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  
W. D. Cates or D. A. Sowers  
1001 North Turner  
Hobbs, New Mexico 88240  
Phone: 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.

2-23-77  
Date

D. A. Sowers  
D. A. Sowers  
Production Superintendent

rej



Approx. 10 Mi. From Hobbs, N.M. Hwy. 18

