

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

(Reverse side)

30-025-11985

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK: REENTRY DEEPEN PLUG BACK

b. TYPE OF WELL: OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR: TENNECO OIL COMPANY

3. ADDRESS OF OPERATOR: 1860 Lincoln St., Suite 1200, Denver, Colorado 80295

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.):
At surface: 657' FNL and 1983' FEL
At proposed prod. zone: Unit B

5. LEASE DESIGNATION AND SERIAL NO.: NM-7951

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: _____

7. UNIT AGREEMENT NAME: _____

8. FARM OR LEASE NAME: Leonard Bros.

9. WELL NO: 14

10. FIELD AND POOL OR WILDCAT: Leonard Queen, South

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 14, T26S, R37E

12. COUNTY OR PARISH: Lea | 13. STATE: New Mexico

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: See point 1: B7& C of Surface Use Plan

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): _____

16. NO. OF ACRES IN LEASE: 2520

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.: _____

19. PROPOSED DEPTH: 3600'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 3003.4' GL

22. APPROX. DATE WORK WILL START*: _____

23. actual PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
In hole 12-1/4"	8-5/8"	24#	265'	sacks circulated to surface
To be run 7-7/8"	5-1/2"	15.5#	3600'	cement to surface in two stages

History: This well was known before as the Leonard Federal #6 and was plugged and abandoned. The following plugs were set: 5 sacks at surface; 10 sacks from 235' - 265'; 15 sacks from 1000' - 1045'; 15 sacks from 2450' - 2495'; and 50 sacks from 3405' - 3450'.

We propose to drill out the cement plugs to + 3600' and test this well as follows:

- The geologic name of this surface formation is the Ogallala Lime (Miocene).
- 2&3- Formation Tops (Estimated)
 - Salado +1155' Salt
 - Yates +2524' Possible Oil or Gas Producer
 - 7 Rivers +2850' Possible Oil or Gas Producer
 - Queen +3395' Oil and Gas
 - Penrose +3495' Oil and Gas
- If productive, 5 1/2" OD, 15.5 # K-55 new casing will be run and cemented to surface in two stages. Casinghead will be a weld on 8-5/8" head w/a 3000 psi rating.
- Blowout preventors: Hydraulic, double ram, 10". One set of rams will be provided for each size drill pipe in the hole. One set of blind rams at all times. Fill line will be 2", kill line will be 2", choke relief line will be 2" with variable choke. BOP's will be installed, tested and in working order before drilling below second plug and shall be maintained ready for use until drilling operations are completed. BOP's, drills, and tests will be recorded in the drillers logs.
- We will use; Drill bits, drill collars and drill pipe as needed to drill out plugs.
- Auxiliary Equipment
 - Kelly cock will be in use at all times.
 - Stabbing valve to fit drill pipe will be present on floor at all times.
 - Mud monitoring will be visual.
 - Floats at bits.
 - Drill string safety valve (s) to fit all pipe in the drill string will be maintained on the rig floor while drilling operations are in progress.
- This well will be pump tested after recovery of any load oil or water. CNL-FDC-GR caliper logs will be taken.
- No abnormal pressures or temperatures are anticipated. See point #5 for blowout prevention equipment.
- The drilling of these plugs will take approximately two days. The gas is not dedicated to any purchaser as of this date.
- Your office (Telephone 505/393-3612) will be notified of spudding in sufficient time to witness cementing operations. Immediate notice will be given on blowouts, fires, spills, and accidents involving life-threatening injuries or loss of life. Prior approval will be obtained before appreciably changing drilling program or commencing plugging operation plug back work, casing repair work or corrective cementing operations.

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.

SIGNED: D. D. Myers TITLE: Div. Production Manager

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:
"APPROVAL TO FLARE GRANTED WHILE DRILLING AND TESTING."

**APPROVED
AS AMENDED**
JUN 28 1977
BERNARD MOROZ
ACTING DISTRICT ENGINEER

TENNECO OIL COMPANY

REQUIRED MINIMUM BLOWOUT PREVENTOR

HOOKUP

Denver, Colorado

PREVENTOR

JUL 3 1977

OIL CONSERVATION COMM.
HOBBS, N. M.

ALL BOBs, Flanges, spools, valves, & lines must be series 900 or 3000 psi working press.

Choke manifold must be at ground level and extended out from under

substructure.

ALL valves 2"

