

# DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

COPY TO O.G.

## 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

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 1650' FSL and 1650' FWL

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

See point 1: B 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.)

2994' GL

22. APPROX. DATE WORK WILL START\*

23. PROPOSED CASING AND CEMENTING PROGRAM

actual

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
unknown	10-3/4"	40#	279'	100 sacks circulated to surface
unknown	7"	20#	3342'	450 sacks
6-1/8"	4-1/2"	10.5#	3200' - 3600'	Cement back to top of Liner

History: This well was known before as the Leonard #3 K, and was ~~abandoned~~ abandoned. A cement plug was placed from 3335' - 3517'. From 3335' - surface, no plug, just mud in hole. A swedge w/ 2" gate valve was placed at the surface.

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

1- The geologic name of this surface formation is the Ogallala Lime (Miocene).

2&3- Formation Tops (Estimated)

Salado	+1160'	Salt
Yates	+2525'	Possible Oil or Gas Producer
7 Rivers	+2830'	Possible Oil or Gas Producer
Queen	+3390'	Oil and Gas
Penrose	+3510'	Oil and Gas

4- A 4-1/2" liner will be run from +3200' - TD. Casinghead will be a weld on 7" head w/ a 3000 psi rating.

5- 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.

6- We will use: Drill bits, drill collars and drill pipe as needed to drill out plugs.

7- 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.

8- This well will be pump tested after recovery of any load oil or water. CNL-FDC-GR caliper logs will be taken.

9- No abnormal pressures or temperatures are anticipated. See point #5 for blowout prevention equipment.

10- The drilling of this plug will take approximately two days. The gas is not dedicated to any purchaser as of this date.

11- 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

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 deepen or plug back, give data on present productive zone and proposed new productive zone. Give blowout preventer program, if any.

24.

SIGNED

TITLE Division General Manager

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

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 Federal

9. WELL NO

3

10. FIELD AND POOL OR WILDCAT

Leonard Queen, South

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 11, T26S, R37E

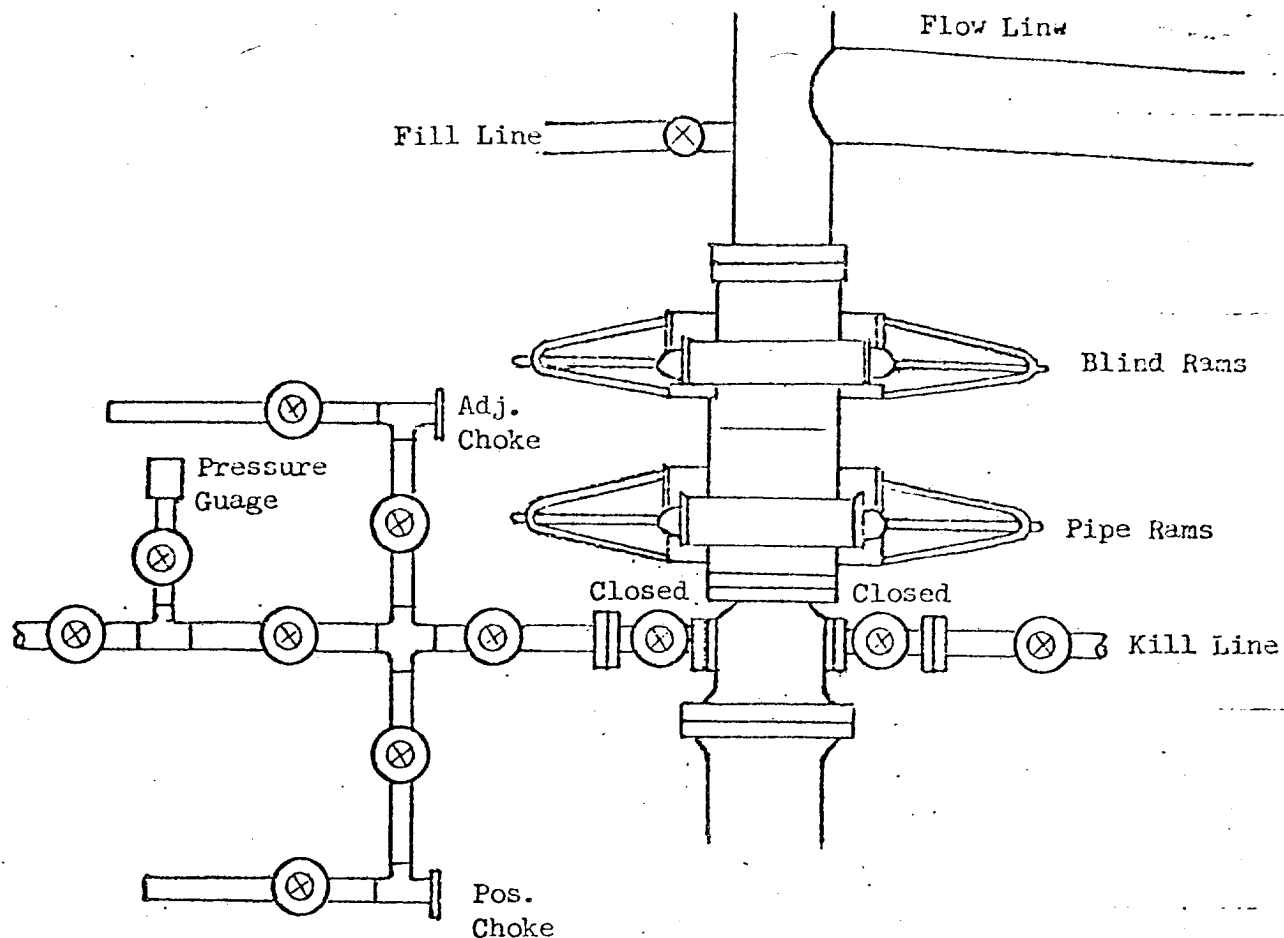
12. COUNTY OR PARISH

Lea

13. STATE

New Mexico

APPROVED  
JUN 27 1977  
BERNARD MOROZ  
ACTING DISTRICT ENGINEER



All valves 2"

All BOPs, 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.

TENNECO OIL COMPANY

REQUIRED MINIMUM BLOWOUT PREVENTOR

HOOKUP

Denver, Colorado

ELF

RECEIVED

23

OIL CONSERVATION COMM.  
HOBBS, N. M.