

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED

UNIT G

NAME DESIGNATION AND SERIAL NO.

NM-7951

NAME OF INDIAN, ALLIGEE OR LINE NAME

UNIT AGREEMENT NAME

NAME OF FARM OR LEASE NAME

Leonard Bros.

WELL NO.

20

FIELD AND TOOL OR WILDCAT

Leonard Queen, South

SEC. T. R. M. OR PLK. AND SURVEY OR AREA

Sec 14, T26S, R37E

COUNTY OR PARISH STATE

Lea

New Mexico

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

A. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

B. TYPE OF WELL

OIL WELL ☒

CAN WELL ☐

OTHER

SINGLE ZONE ☐

MULTIPLE ZONE ☐

NAME OF OPERATOR

TENNECO OIL COMPANY

ADDRESS OF OPERATOR

720 So. Colorado Blvd., Denver, Colorado 80222

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

At surface

1980' FNL and 1980' FEL

At proposed prod. zone

C. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE

See Point 1:b of Surface Use Plan

D. 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

E. DISTANCE FROM PROPOSED LOCATION

TO NEAREST WELL, DRILLING, COMPLETED, OR ABANDONED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

+4000'

20. ROTARY OR CABLE TOOL

Rotary

F. ELEVATIONS (Show whether DE, RT, GR, etc.)

2996.83' GL

22. APPROX. DATE WORK WILL START

May 1, 1978

G. 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#	+500'	Suff. to circulate to surface.
7-7/8"	5-1/2"	15.5#	+4000'	Suff. to circulate back up into surface casing.

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

3. Formation Tops (Estimated)

Salado	+ 1150	' Salt
Yates	+ 2500	' Possible oil or gas producer
7 Rivers	+ 2820	' Possible oil or gas producer
Queen	+ 3360	' Oil and gas
Penrose	+ 3460	' Oil and gas

4. Run 8-5/8" OD, K-55 new casing to +500' and circulate cement to surface. Run 5 1/2" OD, 15.5#, K-55 new casing to T. D. and cement with a sufficient amount to circulate up into surface casing in two stages. Casinghead will be a 10" 900 series 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 surface casing 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; spud mud = 0-+500'. (8.5 - 9.0 lb. per gallon) Brine gel = 500'-TD. (9.0 - 10.0 lb. per gallon)

7. Auxiliary Equipment

a. Kelly cock will be in use at all times.

b. Stabbing valve to fit drill pipe will be present on floor at all times.

c. Mud monitoring will be visual, no abnormal pressures are anticipated in this area.

d. Floats at bits.

e. 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. One core may be taken. DLL-GR, CNL-FDC-GR calipers and BHC Sonic logs will be taken. Any other evaluation that may be necessary during the drilling of this well will be conducted as needed.

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

10. The drilling of this well will take approximately eight days. The gas (is, isxxrx) dedicated to El Paso Natural Gas Company.

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 operations, 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

TITLE Div. Production Manager

(For space for Federal or State office use)

PERMIT Commenced, this drilling approval

Expires 8-1-78

APPROVAL DATE

TITLE

APPROVED
AS AMENDED

FEB 23 1978

ACTING DISTRICT ENGINEER

RECEIVED

FEB 28 1978

OIL CONSERVATION COMM.
HOBBS, N. M.

GEORGE H. H.
CHIEF MA. RA

913 49 833

100-100000-100