

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

(Other instructions on  
reverse side)

LEASE DESIGNATION AND SERIAL NO.

NM-7951

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

660'FSL and 1980'FEL

At proposed prod. zone

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

See point 1: E of Surface Use Plan

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

18. DISTANCE FROM PROPOSED LOCATION\*

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

21. ELEVATIONS (Show whether DF, RT, GK, etc.)

2989.4'GL

23.

CASING AND CEMENTING PROGRAM

actual

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13-3/8"	48#	422'	450 sacks circulated to surface
12 1/4"	9-5/8"	36# & 40#	3842'	1300 sacks

Was open hole before plugging from 3,842'-10,650'

History: This well was known before as the Leonard Federal 14 #1 and was plugged and abandoned by Union Texas Petroleum Corp. on 1/15/76. The following plugs were set: 10 sacks at surface; 50 sacks from 970'-1,100'; 50 sacks from 2570'-2700'; 50 sacks from 3820'-3950'; 50 sacks from 5170'-5300'; 50 sacks from 7320'-7450'; 50 sacks from 9190'-9300' and 50 sacks from 10,330'-10,460'. We propose to drill out the cement plugs to +3820' and test this well as follows:

- 1- The geologic name of this surface formation is the Ogallala Lime (Eocene).  
2&3- Formation Tops (Estimated)

Salado

Yates

7 Rivers

Queen

Penrose

+1150' Salt

+2696'

+2900'

+3453' Oil and Gas

+3535' Oil and Gas

(Possible Oil or Gas Producer

(Possible Oil or Gas Producer

- 4- No new casing will be run. Casinghead will be a weld on 9-5/8" 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 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  
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.  
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. 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 these plugs 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 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.

24.

SIGNED D. H. Myers

TITLE Div. Production Manager

(This space for Federal or State office use)

PERMIT NO.

APPROVAL TO FLARE GRANTED  
WHILE DRILLING AND TESTING

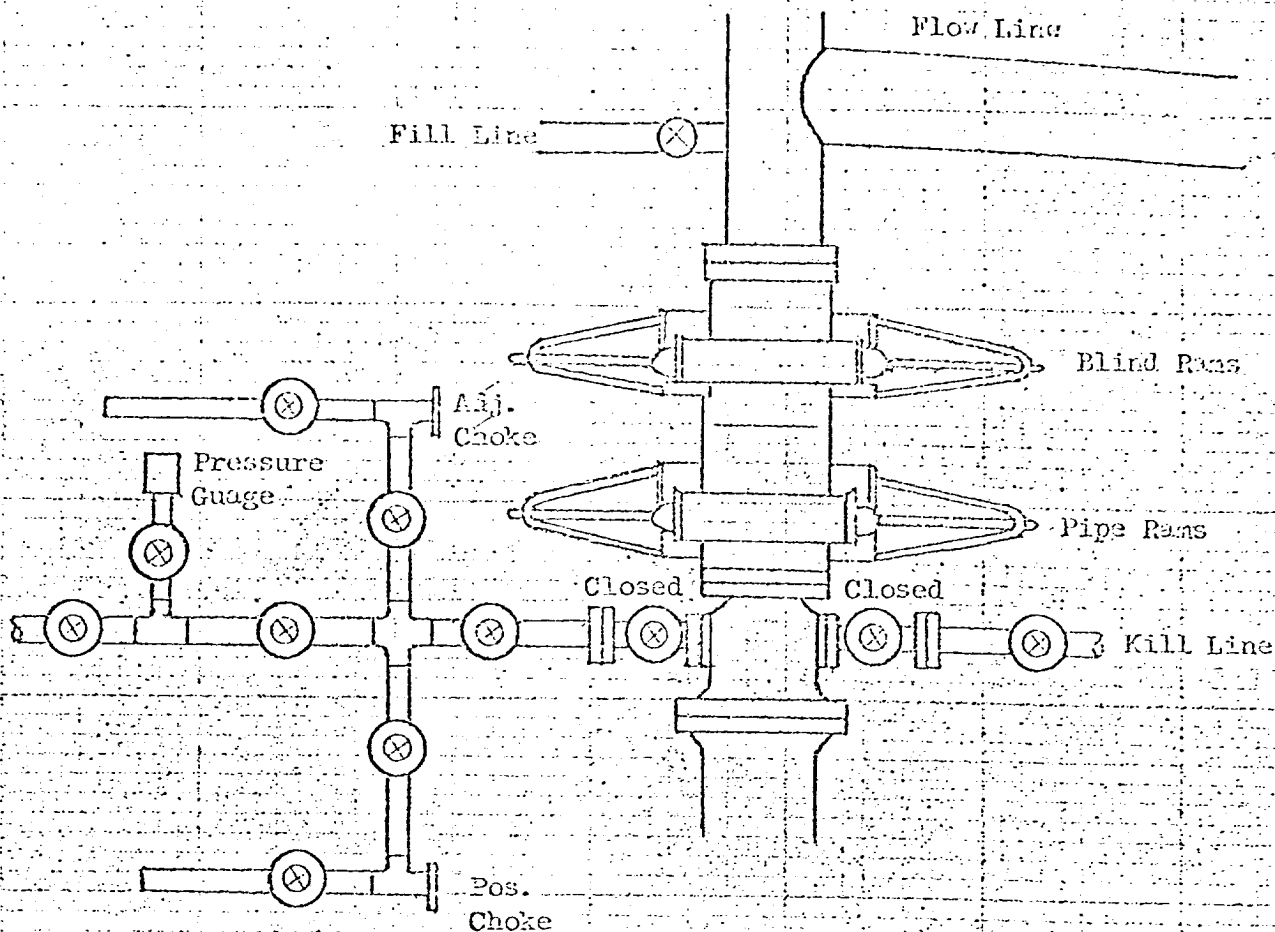
APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE JUN 9 1977  
APPROVED  
AS AMENDED  
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

RECEIVED

JUN 1 1977

OIL CONSERVATION COMM.  
HOBBS, N. M.