

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  
 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  
 1455 'FNL and 945 FWL  
 Unit E  
 At proposed prod. zone

5. LEASE DESIGNATION AND SERIAL NO.  
 SF-080000  
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
 7. UNIT AGREEMENT NAME  
 8. FARM OR LEASE NAME  
 Florance  
 9. WELL NO.  
 #27A  
 10. FIELD AND POOL, OR WILDCAT  
 Blanco Mesa Verde  
 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 Sec. 26, T29N, R 9W  
 12. COUNTY OR PARISH  
 San Juan  
 13. STATE  
 New Mexico

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  
 295.73  
 17. NO. OF ACRES ASSIGNED TO THIS WELL  
 295.73  
 18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
 19. PROPOSED DEPTH  
 +4832  
 20. ROTARY OR CABLE TOOLS  
 Rotary  
 21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 5819'  
 22. APPROX. DATE WORK WILL START\*  
 June 5, 1977

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"	36#	+ 200	Suff. to circulate to surface
8-3/4"	7"	23#	+ 2632'	Suff. to cement to surface csg.
6-1/8"	4-1/2"	10.5#	+ 2432-4832'	Suff. to cement to 7" csg.

- The geologic name of this surface formation is (San Jose Eocene/Nacimiento)

Formation Tops (Estimated)

Pictured Cliffs	+ 2352	Possible oil or gas producer
Cliff House	+ 4002	Possible oil or gas producer
Menefee	+ 4152	Possible oil or gas producer
Point Lookout	+ 4612	Possible oil or gas producer
Mancos Shale	+ 4712	

- Run 9-5/8" OD, K-55 new casing to +200' and circulate cement to surface. Run 7" OD, 23#, K-55 new casing to +2632' and circulate cement up through the 9-5/8" csg. Run a 4 1/2" csg. Liner from 200' above bottom of 7" csg. to T.D. and circulate cement back to the top of 4 1/2" csg. Casinghead will be a 10" 900 series 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.

- We will use; spud mud from 0-+200'; Gel Chemical w/low solids as needed to maintain good hole conditions from +200'-+2632'. Compressed gas from +2632' to T.D..

- 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, no abnormal pressures are anticipated in this area.
- Rotating head will be used when drilling with gas.

- An AOF test will be taken at the completion of this well. No cores will be taken. Gamma Ray and Compensated Density logs will be run. Any other evaluation that may be necessary during the drilling of this well will be conducted as needed.

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

0-The drilling of this well will take approximately eight days. The gas is contracted to Southern Union Gathering Co.

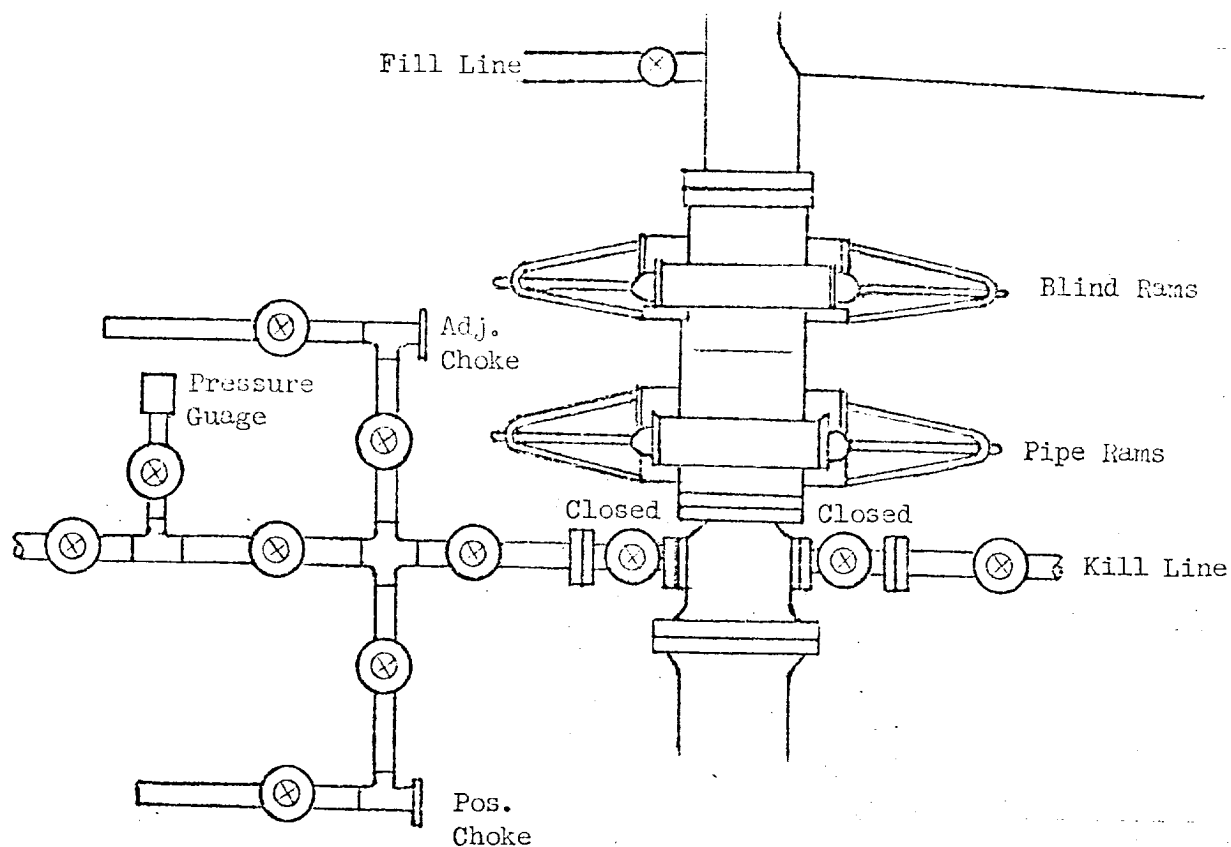
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. If blowout preventer program, if any.

24. SIGNED A.A. Myers TITLE Div. Production Manager DATE APR 18 1977  
 (This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
 APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

111110-13

\*See Instructions On Reverse Side



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