

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

(Other instructions on  
reverse side)

30-045-22876

5. LEASE DESIGNATION AND SERIAL NO.

USA-N-016746

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Horton

9. WELL NO.

1

10. FIELD AND POOL OR WILDCAT

Pasen  
Dakota

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

Sec. 28, T 31 N, R 9 W

12. COUNTY OR PARISH

San Juan

13. STATE

New Mexico

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

320 N/318.10

20. ROTARY OR CABLE TOOLS

Rotary

22. APPROX. DATE WORK WILL START

February 13, 1977

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

720 So. Colorado Blvd., Penthouse, Denver, Colorado 80222

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

At surface

1850' FNL and 1980' FWL

At proposed prod. zone

Unit F

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

See point 1: B & C of Surface Use Plan

10. DISTANCE FROM PROPOSED\*  
LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. unit line, if any)

16. NO. OF ACRES IN LEASE

320

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

+ 7629'

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

6194' GL

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#	+ 250'	Suff. to circulate to surface
8-3/4"	7"	23#	+ 3314'	Suff. to circulate to surface
6-1/4"	4-1/2"	10.5#	+ 7629'	

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

2&3- Formation Tops (Estimated)

Fruitland	+ 2719'	Possible oil or gas producer
Pictured Cliffs	+ 3019'	Possible oil or gas producer
Lewis Shale	+ 3109'	Possible oil or gas producer
Mesa verde	+ 4749'	Possible oil or gas producer
Mancos Shale	+ 5719'	Possible oil or gas producer
Gallup	+ 6519'	Possible oil or gas producer
Greenhorn	+ 7244'	Possible oil or gas producer
Dakota	+ 7349'	Possible oil or gas producer

4- Run 9-5/8" OD, K-55, new casing to +250' and circulate Class B cement w/3% CaCl<sub>2</sub> to surface. Run 7" OD, K-55, new casing to + 3314' and cement with 65/35 poz mix w/12% Gel, and 12-1/4 lb/sack of Gilsonite. Tail in w/Class B cement w/2% CaCl<sub>2</sub>. Circulate to surface. If productive, run 4-1/2" OD, K-55, new casing to TD and cement in two stages with same mixture as in the 7" casing. Casing head will be a 10" 900 series with 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 IADC Drilling report. They shall be checked every 24 hours. All rig equipment will be tested to above BOE ratings.

6- We will use: spud mud from 0-250'; fresh water gel w/chemicals - low solids type mud as needed to maintain good hole conditions from +250' - +2900'; compressed air from +2900' - TD. Quantities of mud will vary with conditions encountered.

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

8- 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.

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

10- The drilling of this well will take approximately ten days. The gas is not yet contracted

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 prevention program, if any.

24.

SIGNED

D. A. Myer

TITLE Div. Production Manager

DATE

1-9-78

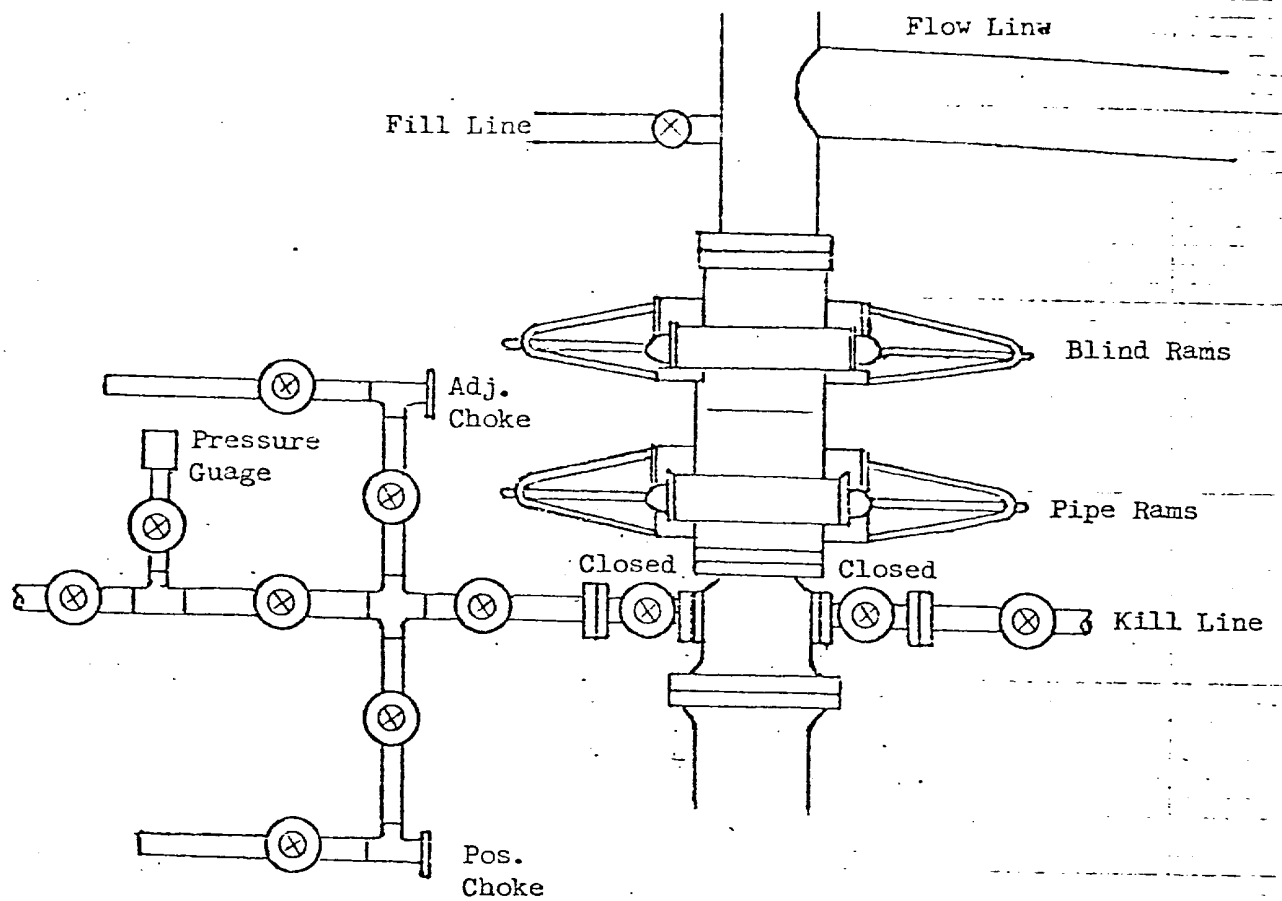
(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

JAN 12 1978

U.S. GEOLOGICAL SURVEY  
FEDERAL BUREAU OF REVENUE



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

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

35341  
Form C-102  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

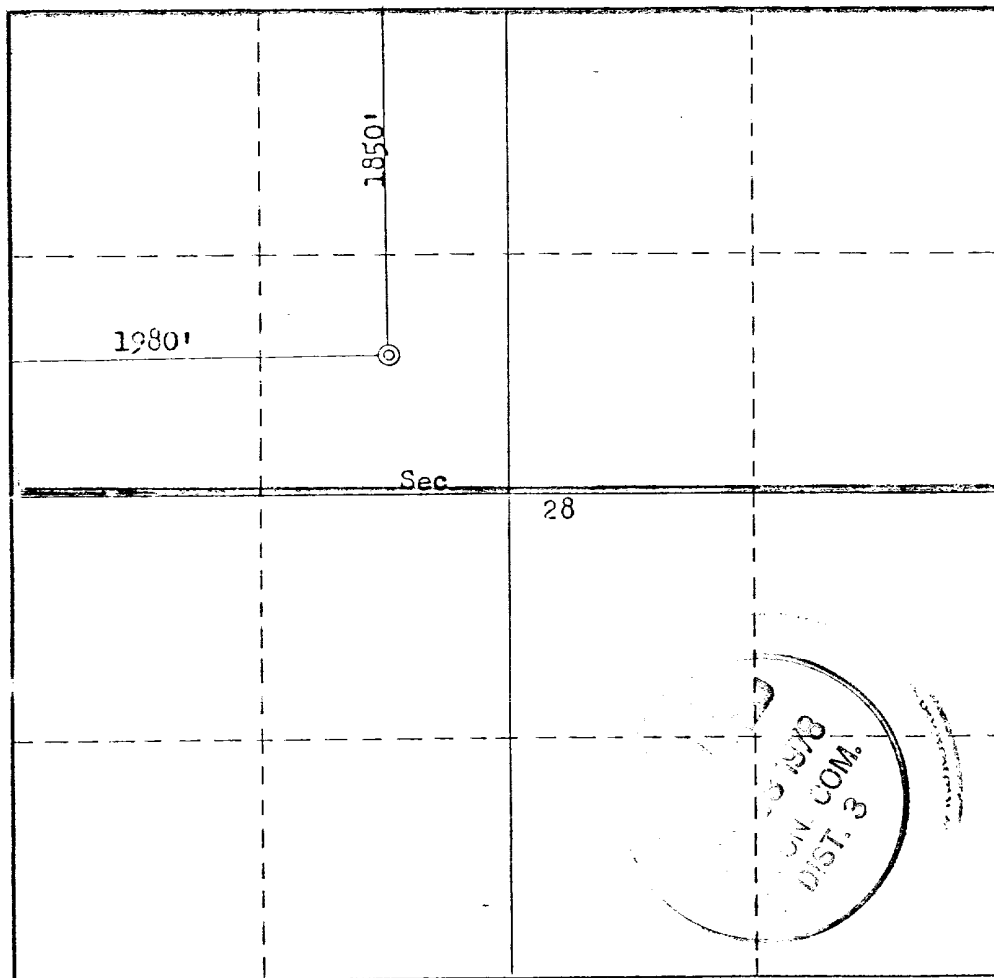
Operator <b>Tenneco Oil Company</b>		Lease <b>Horton</b>		Well No. <b>1</b>	
Unit Letter <b>F</b>	Section <b>28</b>	Township <b>31N</b>	Range <b>9W</b>	County <b>San Juan</b>	
Actual Point Location of Well: <b>1850</b> feet from the <b>North</b> line and <b>1980</b> feet from the <b>West</b> line					
Ground Level Elev. <b>6194</b>	Producing Formation <b>Dakota</b>	Pool <b>Basin Dakota</b>	Dedicated Acreage: <b>N/2</b> <del>320.00</del> <b>319.10</b>		

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☒ No If answer is "yes," type of consolidation Communitization is in progress

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) None have been consolidated as yet.

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name **Fred B. Kerr Jr.**

Position **Production Analyst**

Company **Tenneco Oil Company**

Date **January 3, 1978**

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same

knowledge and belief.

Date Surveyed **December 20, 1977**

Registered Professional Engineer and/or Land Surveyor

**Fred B. Kerr Jr.**

Certificate No. **3950**

BLM SEEDING REQUIREMENTS  
IN THE FARMINGTON RESOURCE AREA

1. SEED MIXTURE 2

2. TIME:

All seeding will take place between July 1 and September 15.

3. EQUIPMENT:

Seeding will be done with a disc-type drill with two boxes for various seed sizes. The drill rows will be eight to ten inches apart. The seed will be planted not less than one-half inch deep or more than one inch deep. The seeder will be followed with a drag, packer, or roller to insure uniform coverage of the seed, and adequate compaction. Drilling will be done on the contour where possible, not up and down the slope. Where slopes are too steep for contour drilling, a "cyclone" hand seeder or similar broadcast seeder will be used. Seed will then be covered to the depth described above by whatever means is practical.

4. SPECIES TO BE PLANTED IN POUNDS PURE-LIVE-SEED PER ACRE:

CRESTED WHEATGRASS (Agropyron desertorum) -  $3\frac{1}{2}$  lbs.

FOURWING SALTBUSH (dewinged) (Atriplex conescens) -  $\frac{1}{2}$  lb.

SAND DROPSEED (Sporobolus cryptandrus) -  $\frac{3}{4}$  lb.

WINTERFAT (Eurotia lanata) -  $\frac{1}{2}$  lb.

ALKALI SACATON (Sporobolus airoides) -  $\frac{3}{4}$  lb.

BLM COLOR REQUIREMENTS  
IN THE FARMINGTON RESOURCE AREA

1. All equipment shall be painted to match the surrounding area.