

UNITED STATES
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

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

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

At surface

2115' FNL and 1790' 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

15. DISTANCE FROM PROPOSED*

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

16. NO. OF ACRES IN LEASE

320

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

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

19. PROPOSED DEPTH

1 + 7687'

20. ROTARY OR CABLE TOOL

Rotary

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

6422'

22. APPROX. DATE WORK WILL START*

February 25, 1977

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#	+ 3392'	Suff. to circulate to surface
6-1/4"	4-1/2"	10.5#	+ 7687'	

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

2&3- Formation Tops (Estimated)

Fruitland	+ 2772'	Possible oil or gas producer
Pictured Cliffs	+ 3097'	Possible oil or gas producer
Lewis Shale	+ 3187'	Possible oil or gas producer
Mesa verde	+ 4657'	Possible oil or gas producer

Gallup	+ 6537'	Possible oil or gas producer
Greenhorn	+ 7297'	Possible oil or gas producer
Dakota	+ 7397'	Possible oil or gas producer

4- Run 9-5/8" OD, K-55, new casing to +250' and circulate Class B cement w/3% CaCl₂ to surface. Run 7" OD, K-55, new casing to + 3392' 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% CaCl₂. 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 gas 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 preventer program, if any.

24.

SIGNED

D. D. Myers

TITLE Div. Production Manager

DATE

1-9-78

(This space for Federal or State office use)

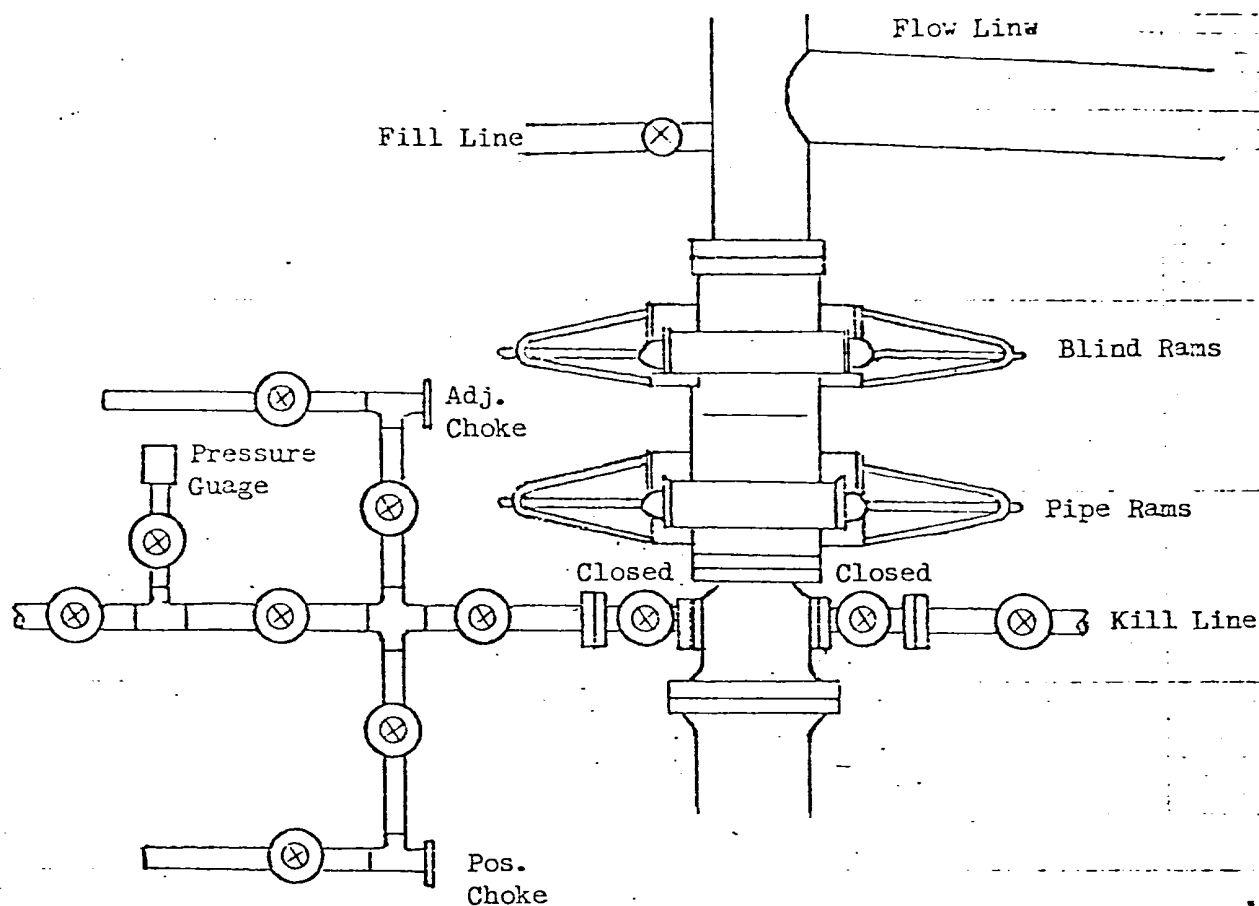
RECEIVED

PERMIT NO.

APPROVAL DATE

JAN 12 1978

U.S. Geological Survey



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

35425
Form C-102
Supersedes C-128
Effective 1-1-65

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

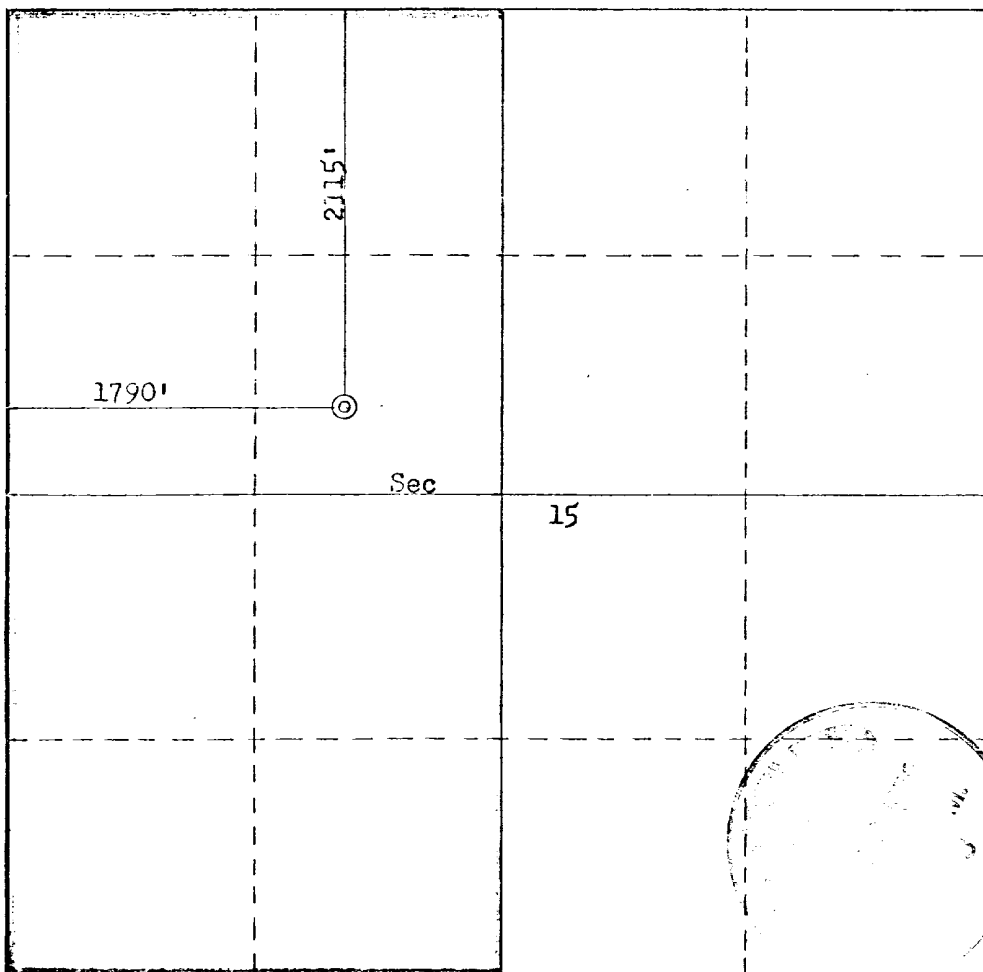
Operator Tenneco Oil Company		Lease Roelofs		Well No. 1
Unit Letter F	Section 15	Township 29N	Range 8W	County San Juan
Actual Well Location of Well:				
2115 feet from the North line and		1790 feet from the West line		
Ground Level Elev. 6422	Producing Formation Dakota	Pool Basin Dakota	Dedicated Acreage: W/2 320.00	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 **Ted F. Drake**

Position **Production Analyst**

Company **Tenneco Oil Company**

Date **January 3, 1978**

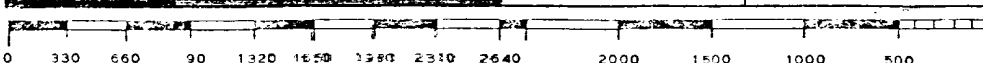
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed **December 21, 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) - $3\frac{1}{4}$ lbs.

FOURWING SALTBUUSH (dewinged) (Atriplex canescens) - $\frac{1}{2}$ 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.