

(May 1963)

SUBJECT: *change of location*
(Other instructions on reverse side)Form approved.
Budget Bureau No. 42-B4123.UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Unit # 14-08-0001-1247

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. SF-078578	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Tenneco Oil Company		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR 1360 Lincoln St., Suite 1200, Denver, Colorado 80203		8. FARM OR LEASE NAME Florance	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 1530' FSL and 1470' FEL, Unit J At proposed prod. zone		9. WELL NO. 45A	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* See Point One of Surface Use Plan		10. FIELD AND POOL, OR WILDCAT Blanco Mesa Verde	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 22, T30N, R8W	
16. NO. OF ACRES IN LEASE 320		12. COUNTY OR PARISH San Juan	
17. NO. OF ACRES ASSIGNED TO THIS WELL E/320		13. STATE New Mexico	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.		20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5840'		22. APPROX. DATE WORK WILL START* upon approval	

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#	+ 2930'	Suff. to cement back to surface
6 1/8"	4 1/2"	10.5#	+ 2680'-5200'	Suff. to cement back to 7" csg.

Plan to drill well as follows:

1. MIRURT, drill 12 1/4" hole to +200'.
2. Set and cement 9 5/8" casing to + 200' & cement with suff. cement to circ. to surface
3. Drill out with 8 3/4" bit to + 2930 feet.
4. Run 7" casing and cement back to surface casing.
5. Drill out of 7" using gas as the circulating fluid, do not drill more than 10' below the 7" casing shoe until the hole has dried up completely and is dusting.
6. Drill the hole to T.D., log the hole dry as requested by drillsite geologist.
7. Run 4 1/2" liner to T.D., load hole with mud and cement liner back to top of 4 1/2". Set liner hanger and POH w/drill pipe.
8. This well will be completed through casing perforations and stimulated as necessary to establish commercial production.
9. Clean up area.
10. Approximately 11 days will be required to drill this well.
11. The gas is dedicated to Southern Union Gathering Company

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

A.L. Myers

TITLE

Div. Prod. Manager

DATE

9-14-76

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED

DATE

SEP 20 1976

U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

*See Instructions On Reverse Side

Amended Location

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACERAGE DEDICATION PLAT

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

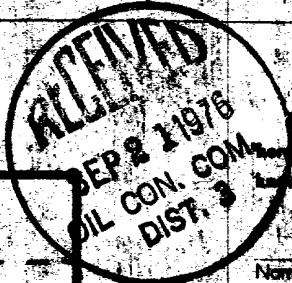
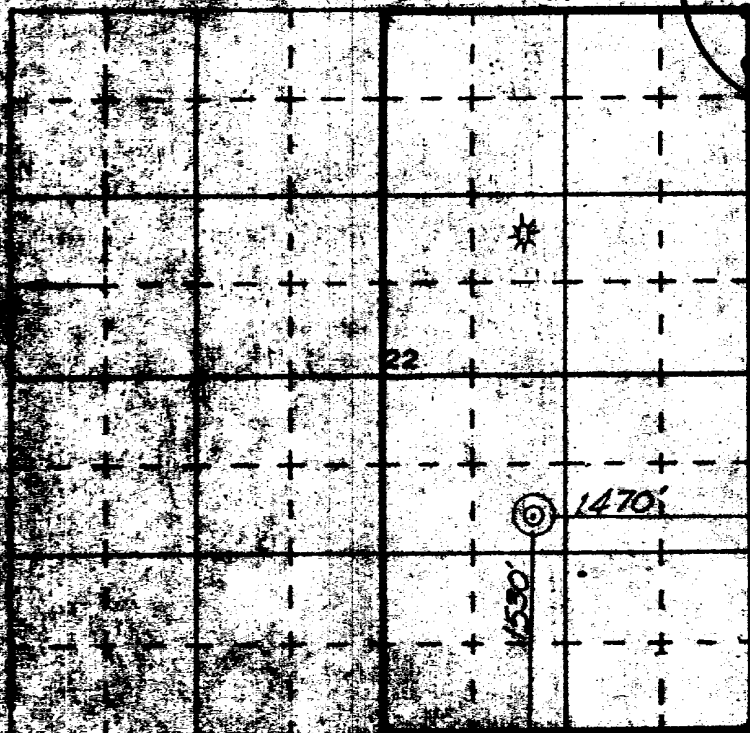
Operator TENNECO OIL COMPANY		Lease FLORANCE		Well No. 45 - A	
Section 22	Township 30 NORTH	Range 8 WEST	County SAN JUAN		
Corner Location of Well: 1530 feet from the SOUTH line and 1470 feet from the EAST line					
Estimated Elev. 5240	Producing Formation Blanco Mesa Verde	Pool Blanco Mesa Verde	Dedicated Acreage: 320 E/2 Acres		

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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?

Answer: ☐ No If answer is "yes," type of consolidation Communitization

If answer is "yes," list the owners and tract descriptions which have actually consolidated. (Use reverse side of this form if necessary.)

No acreage 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.

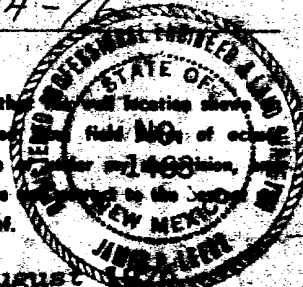


CERTIFICATION

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

Name T. P. Drake
Position Production Clerk
Company Tenneco Oil Company
Date 9-14-76

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 to the best of my knowledge and belief.



Date Surveyed 31 August
James P. Leone
Registered Professional Engineer
and/or Land Surveyor

1463

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

(PAGE 2) for FLORANCE 45A

12. SURFACE FORMATION IS San Jose

13. FORMATION TOPS (Estimated)

Pictured Cliffs	2680	: possible oil or gas producer
Cliff House	4415	: possible oil or gas producer
Menefee	4545	: possible oil or gas producer
Point Lookout	4900	: possible oil or gas producer
Mancos Shale	5080	: possible oil or gas producer

14. Mud program : see point 7 of 7 point well control plan

15. No coring or drill stem tests will be taken

16. Logs to be taken= Density
Gamma Ray
Caliper and temperature logs
Deviation surveys will also be taken



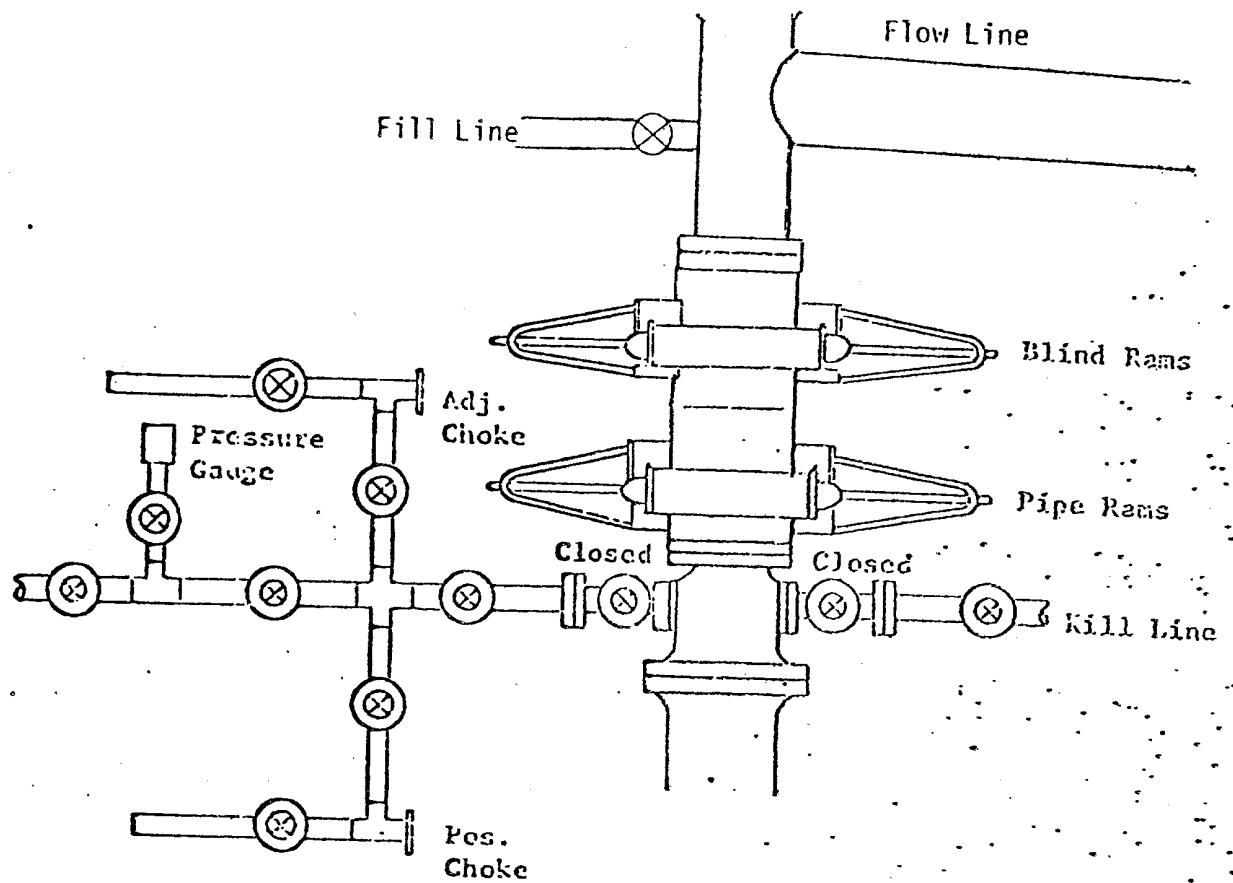
7 POINT WELL CONTROL PLAN

1. Surface casing: 9 5/8", 24#, approximately 200, grade K-55, new condition.
2. Casinghead will be 10", 900 Series, 3,000 psi rating.
3. Intermediate casing - 7", 20#, K-55, will be set at \pm 2930' and cemented to surface casing.
4. 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.
5. Auxiliary equipment:
 - (1) Kelly cock will be in use at all times.
 - (2) Stabbing valve to fit drill pipe will be present on floor at all times.
 - (3) Mud monitoring will be visual, no abnormal pressures are anticipated in this area.
 - (4) Rotating head will be used when drilling with gas.
6. Anticipated bottom-hole pressure:

This is an area of known pressure. Maximum anticipated pressure at TD is 1200 psi.
7. Drilling Fluids:

0 - 200'	Spud mud
200- 2930'	Gel water - low solids as needed to maintain good conditions.
2930' - T.D.	Compressed gas





All valves 2"

All BOP's, flanges, spools, valves & lines must be series 900 or 3000 psi working press.

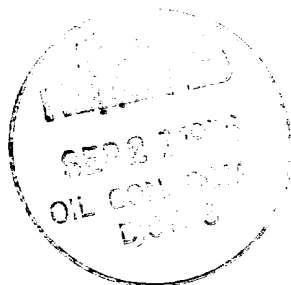
Choke manifold must be at ground level and extended out from under substructure.

TENNECO OIL COMPANY

REQUIRED MINIMUM BLOWOUT PREVENTOR

HOOKUP

Denver, Colorado



BLM SEEDING REQUIREMENTS
IN THE FARMINGTON RESOURCE AREA

1. SEED MIXTURE 1

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) - $2\frac{1}{2}$ lbs.

SMOOTH BROME (Bromus inermis) - $2\frac{1}{2}$ lbs.

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

NOMAD ALFALFA (Medicago sitiva) - 1 lb.

BLM COLOR REQUIREMENTS
IN THE FARMINGTON RESOURCE AREA

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



SURFACE USE PLAN

TENNECO OIL COMPANY'S

Florance 45A, 1530' FSL and 1470' FEL of Sec. 22, T30N, R8W,
Lease #SF-078578 San Juan County, New Mexico.

This plan is to accompany "Application for Permit to Drill" for the above mentioned well.

The following is a discussion of pertinent information concerning possible effect which the proposed drilling of the well may have on the environment of the well and road sites and surrounding acreage. A copy will be posted on the derrick floor so that all contractors and subcontractors will be aware of all items of this plan.

1. AREAL ROAD MAP - Exhibit "A" is a portion of a USGS topographic map, San Juan County, New Mexico, showing existing black top roads. Go East of Farmington, New Mexico on Highway 17 to the junction of 511. Go Northeast on 511 to the Gobernador Canyon Road and take the left hand fork 1-3/4 miles to the location.
2. LOCATION OF EXISTING WELLS - Several MV, Dak., and P.C. have been drilled in a two mile radius and are shown on Exhibit "B".
3. PROPOSED WELL MAT AND IMMEDIATE AREA - Refer to Exhibit "C" for direction orientation and road access.
 - a. Mat size - 130' x 300'
 - b. Surface - Will be native soil, bladed, watered and capped with clay only when necessary.
 - c. Reserve pit - 150' x 150' unlined pit, joining mat to the south.
 - d. Cut & Fill - 2' - 3' cut on the North side.
 - e. Drill Site Layout - Exhibit "C" shows position of mat, reserve pits, burn pits, trash pits, and mud pits in relation to the well bore. Rig will be erected with the V-Door to the East.
 - f. Setting & Environment -
 - (1) Terrain - Gobernador Cliffs N & S See Exhibit "A", topographic map of area.
 - (2) Soil - Extremely sandy soil
 - (3) Vegetation - predominately sagebrush and scrub cedar.
 - (4) Surface Use - Unknown, possibly used for grazing.



- (5) Other - Drill site, which slopes gently to the South is in a low environmental risk area. The location has been already inspected by your personnel.

g. Distances to:

- (1) Ponds and Streams - There are no surface waters within 1/2 mile.
- (2) Water Wells - No water well or windmill could be seen within 1/2 mile.
- (3) Residences and Buildings - There are no houses or buildings within 1/2 mile.
- (4) Arroyos, Canyons, etc. - See Exhibit "A". Gobernador wash runs past location to the South and East.

- h. Well Sign - Sign identifying and locating well will be maintained at drill site with the spudding of the well.

- i. Open Pits - All pits containing mud or other liquids will be fenced.

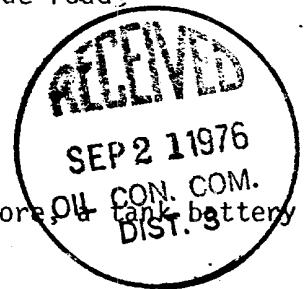
4. ROADS

- a. Existing roads - All existing roads within one mile of the location are shown on Exhibit "A" and Exhibit "D".

- b. Planned roads - Plan to construct 200' of new 14 foot wide road.

- c. Fences, Gates and Cattleguards - None

5. TANK BATTERY - This is expected to be a dry gas well, therefore, a tank battery will not be required.



6. LEASE PIPELINES

- a. Existing - Not furnished by the Operator, to be connected by Southern Union Gathering Co.
- b. Planned - If production is encountered, all lease lines are to be constructed on a well mat.

7. WASTE DISPOSAL - Well cuttings will be disposed in reserve pit. Barrel trash containers to be in accessible locations within drill site area during drilling and completion procedures. All detrimental waste will be hauled away, burned or buried with a minimum cover of 24" dirt. See Exhibit "C" for location of pits. If well is productive, maintenance waste will be placed in special trash cans and hauled away periodically. No produced water is anticipated.

8. WATER SUPPLY - Supply water will be hauled from the San Juan River or nearest wash.
9. ARCHAEOLOGICAL RESOURCES - None observed.
10. RESTORATION OF SURFACE - If well is productive, pits will be backfilled and leveled as soon as practical to original condition.
11. OPERATOR'S REPRESENTATIVE - Field personnel who can be contacted concerning compliance of this Surface Use Plan are as follows:

Production & Drilling

Darrell Brown
1860 Lincoln St., Suite 1200
Denver, Colorado 80203

Office Phone: (303) 292-9920 Ext. 254
Home Phone: (303) 771-8297

12. CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions as they actually exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the proposed work performed by Tenneco Oil Company and its contractors and sub-contractors will conform to this plan.

Date Sept 16, 1976

D. E. Brown
D. E. Brown
Div. Drilling Engineer



EXHIBIT " A "



EXHIBIT " B "

