

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

1360 Lincoln St., Suite 1200, Denver, Colorado 80203

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

At surface 790' FSL and 1475' FEL, Unit PC

At proposed prod. zone

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

12 miles East of Aztec, N.M. on Highway 179

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit llog. 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

5175'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

E/320

20. ROTARY OR CABLE TOOLS

Rotary

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

5985' GL

22. APPROX. DATE WORK WILL START*

September 1976

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#	+2940'	Suff. to cement back to surface.
6 1/8"	4 1/2"	10.5#	+2740'-5175'	Suff. to cement back to 7" csq.

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 +2940' 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 Co

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. D. Myer

TITLE

Div. Production Manager

DATE 7/30/76

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY

A. D. Myer

U. S. GEOLOGICAL SURVEY

*See Instructions On Reverse Side

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

(PAGE 2) for Florance #2A

12. SURFACE FORMATION IS Nacimiento

13. FORMATION TOPS (Estimated)

Pictured Cliffs	2690'	possible oil or gas producer
Cliff House	4312'	possible oil or gas producer
Menefee	4477'	possible oil or gas producer
Point Lookout	4923'	possible oil or gas producer
Mancos Shale	5053'	

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

**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 2-A
Unit Letter 10	Section 20	Township 30 NORTH	Range 9 WEST	County SAN JUAN	
Actual Footage Location of Well: 790 feet from the SOUTH line and 1475 feet from the EAST line					
Ground Level Elev. 5985	Producing Formation Blanco Mesa Verde		Pool Blanco Mesa Verde	Dedicated Acreage: E/320	Acres

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?

Communitization

(☒) Yes () No If answer is "yes," type of consolidation

If answer is "no," list the owners and tract descriptions which have actually consolidated. (Use reverse side of this form if necessary.)

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

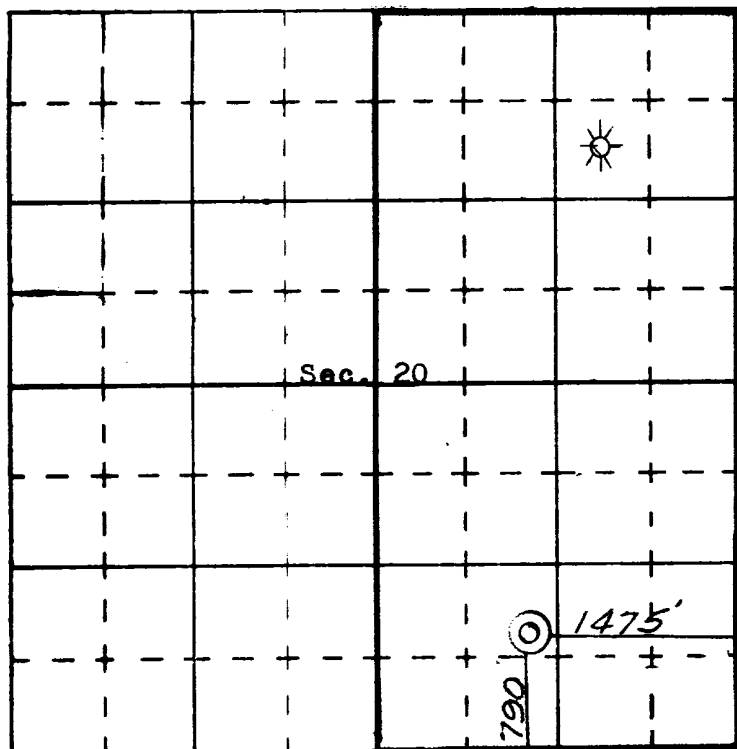
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name *Paul H. Drake*
 Position **Production Clerk**
 Company **Tenneco Oil Company**
 Date **July 29, 1976**

I hereby certify that the well location shown on this plat was plotted from (a) 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.

25 June, 1976
 Date Surveyed
James P. Leese
 Registered Professional Engineer
 and/or Land Surveyor
James P. Leese

1463
 Certificate No.

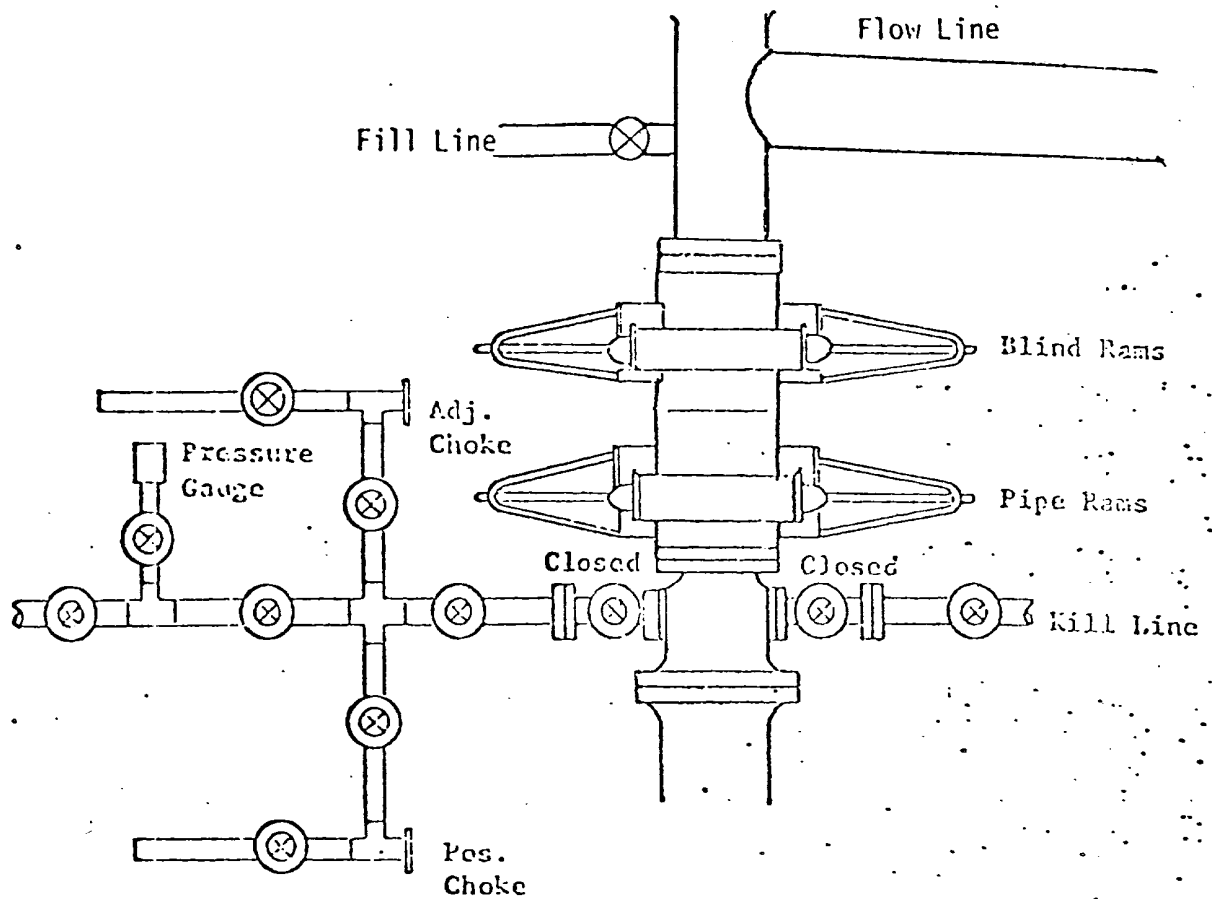


Florance 2A
7 POINT WELL CONTROL PLAN

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 + 2940' 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. Anticipate no H2S gas.
7. Drilling Fluids:

0 - 200'	Spud mud
200' - 2940'	Gel water - low solids as needed to maintain good conditions.
2940' - T.D.	Compressed gas



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

HOOVER

Denver, Colorado

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 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 green to match the surrounding area. (The exception to this is the Florance 30 A which has to be painted gray)

SURFACE USE PLAN

TENNECO OIL COMPANY'S

Florance 2A, 790' FSL & 1475' FEL of
Sec. 20, T30N, R9W, Lease SF 078116,
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. Approximately 12 miles East of Aztec, New Mexico on Highway 173. The proposed location is approximately 150 yards South of the highway behind a ridge.
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 Southeast.
 - d. Cut & Fill - 6' cut on the North corner tapering off to 0.
 - 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 Southwest.
 - f. Setting & Environment -
 - (1) Terrain - Southside of a ridge. See Exhibit "A", topographic map of area.
 - (2) Soil - Extremely sandy soil
 - (3) Vegetation - Sparse grass, predominately sagebrush.
 - (4) Surface Use - Unknown, possibly used for grazing.

- (5) Other - Drill site, is sloping to the South in semi-arid desert country, is in a low environmental risk area. The total effect of drilling and producing this and other wells in this area would be minimal.

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".

- 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 - Report will be furnished by Nancy Hewitt from Salamon Ruins, Bloomfield, New Mexico.
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

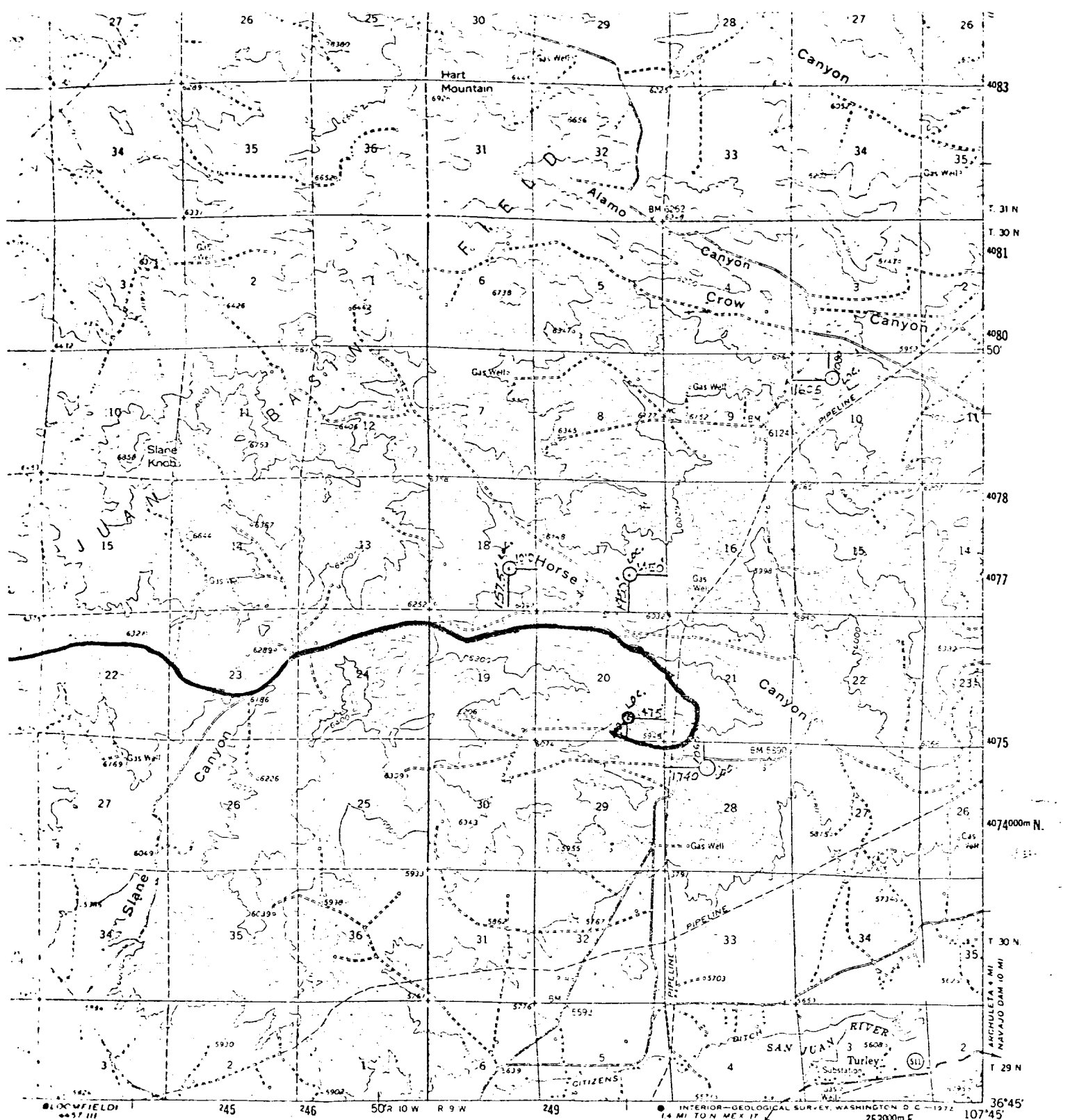
Office Phone: (303) 292-9920 Ext. 254
Home Phone: (303) 771-8297

12. CERTIFICATION

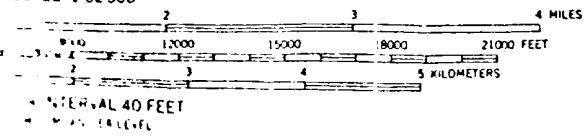
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions as they actually exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the proposed work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

B-3-76
Date

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



SCALE 1:62500



INTERVAL 40 FEET



QUADRANGLE LOCATION

ROAD CLASSIFICATION

Medium-duty ——— Light duty ———
Unimproved dirt
U.S. Route ○ State Route ○

AZTEC, N. MEX.
N3645 - W10745/15

1959

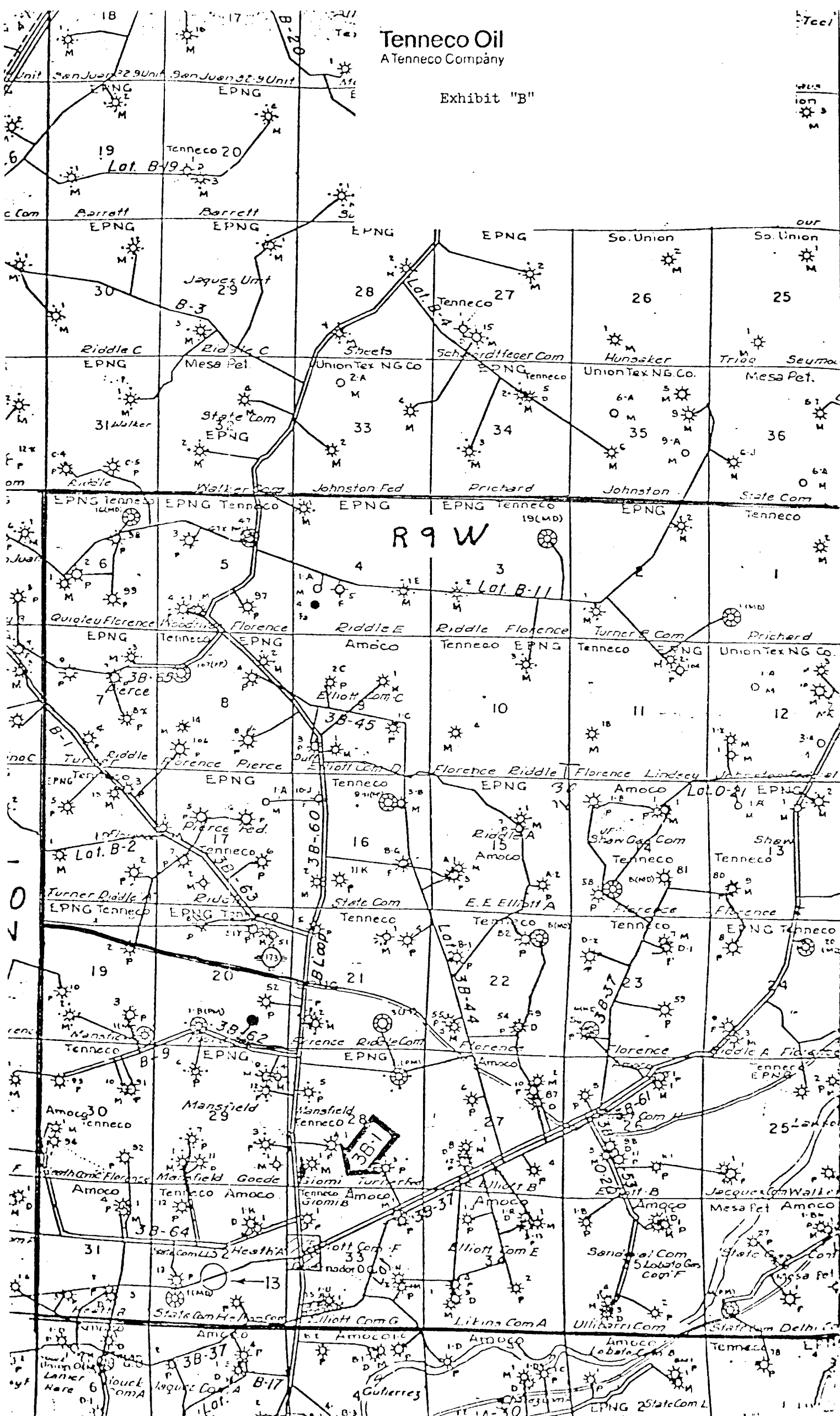
AMS 4457 IV-SERIES V781

EXHIBIT "A"

U.S. GEOLOGICAL SURVEY MAP ACCURACY STANDARDS
LEADER COLORADO 80225 OR WASHINGTON, D. C. 2024
MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

Tenneco Oil
A Tenneco Company

Exhibit "B"

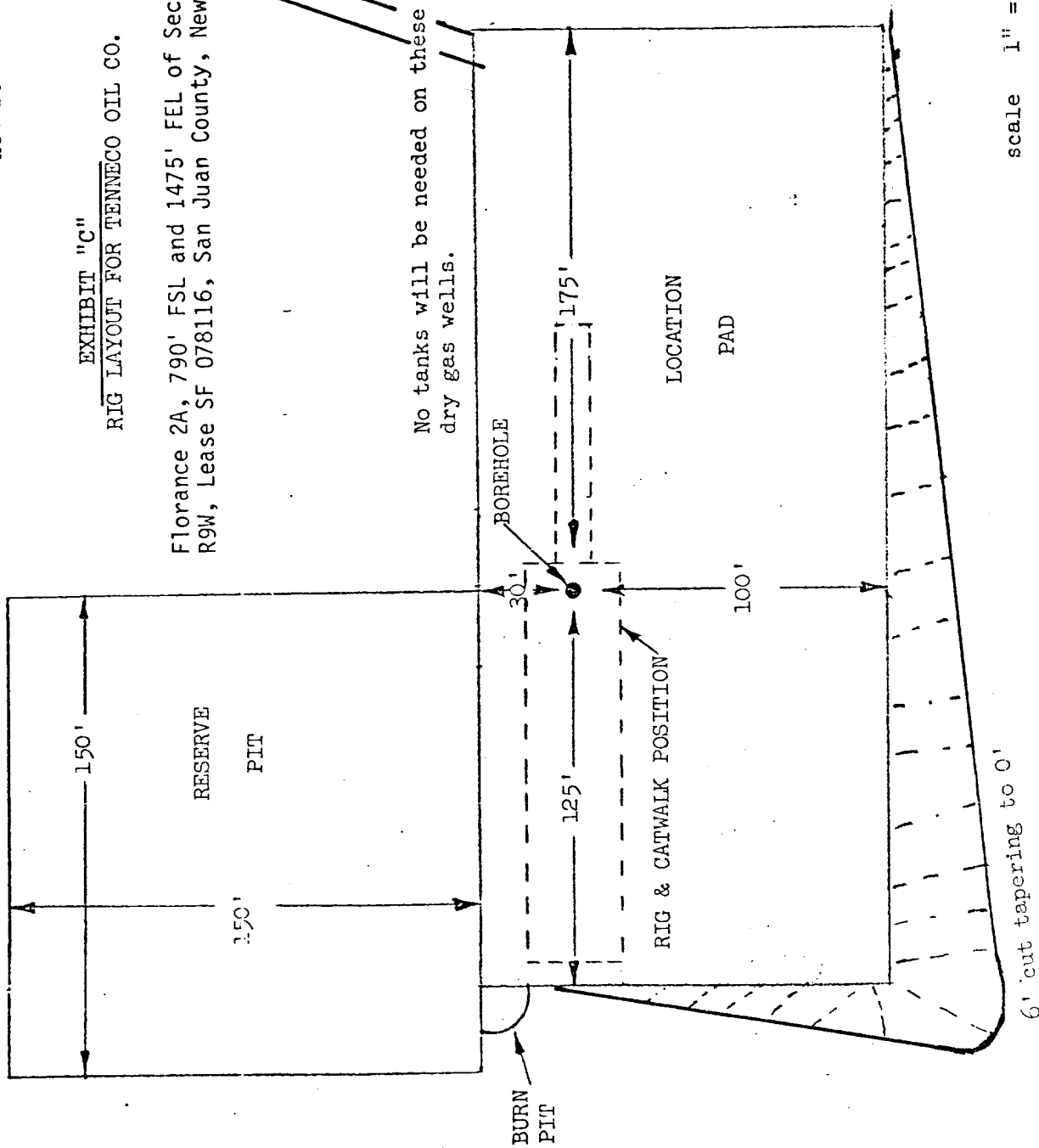


300' of proposed
new road

EXHIBIT "C"

RIG LAYOUT FOR TENNECO OIL CO.

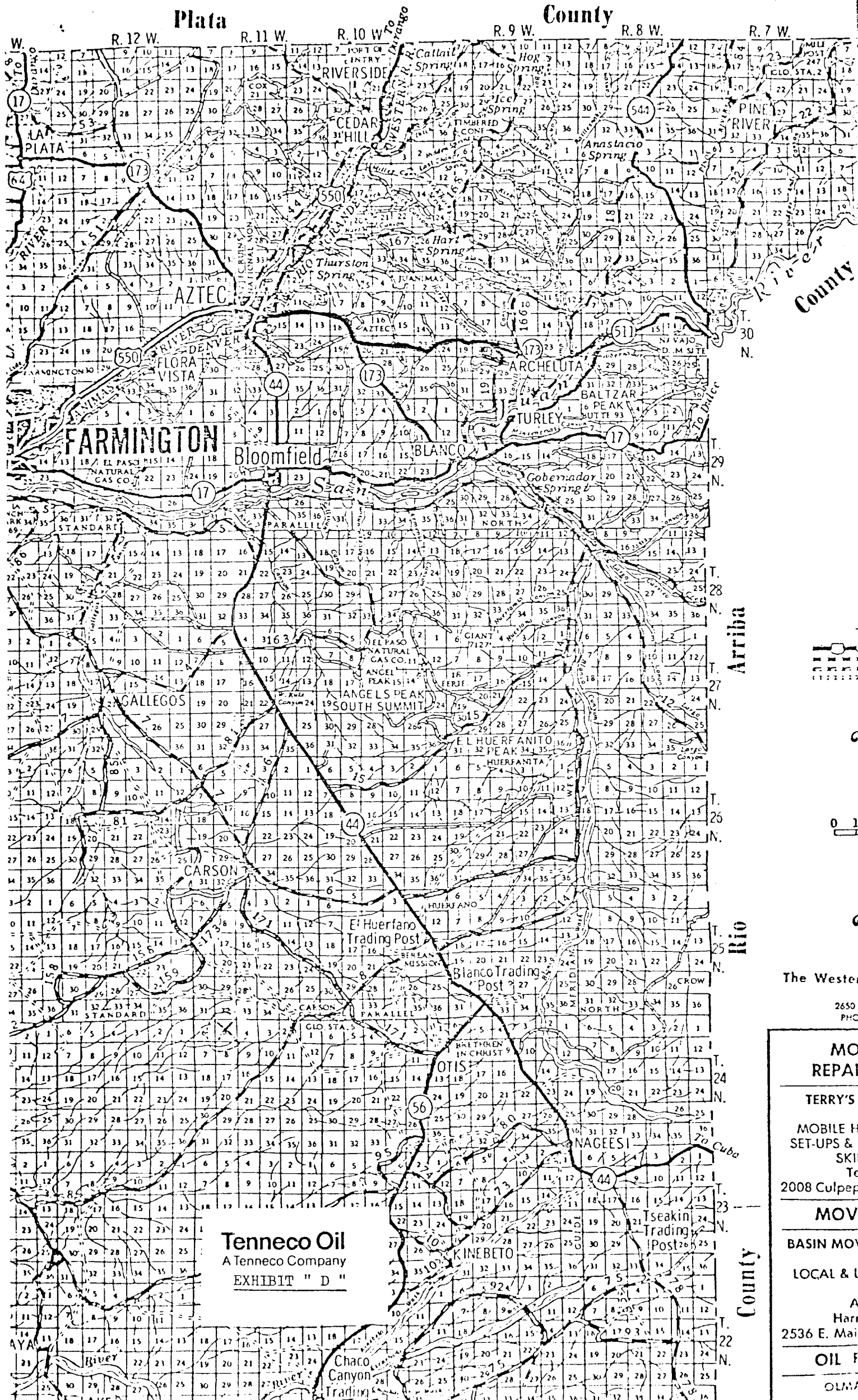
Florance 2A, 790' FSL and 1475' FEL of Sec. 20, T30N,
R9W, Lease SF 078116, San Juan County, New Mexico.



scale 1" = 50'

Plata

County



Tenneco Oil
A Tenneco Company
EXHIBIT " D "

The Western

2650 E.
PHOENIX

**MOB
REPAIR**

TERRY'S A
MOBILE HO
SET-UPS & B
SKIRI
Terry
2008 Culpepp

MOVIN

BASIN MOVI
LOCAL & LO

ALL
Harry
2536 E. Main

**OIL F
OLMAN**

Tenneco Oil
A Tenneco Company

Suite 1200
Lincoln Tower Building
Denver, Colorado 80203
(303) 292-9920



August 3, 1976

U. S. Geological Survey
Box 959
Farmington, New Mexico 87401

Re: Application for Permit to Drill:
Florance 2A, 4A, 6A, 13A, 20A,
and 30A
San Juan County, New Mexico

Gentlemen:

Attached are the original and five copies each of the Application for Permit to Drill, Surveyor's Plat, Vicinity Map, Location Access Map, 12 Point Surface Use Plan, 7 Point Well Control Plan with schematic diagram of surface control equipment and a restoration plan for the above captioned wells.

We are planning to commence drilling operations as soon as permits are approved.

Yours very truly,

TENNECO OIL COMPANY

D. D. Myers
D. D. Myers
Division Production Manager

TFD:df

Attachments

bcc Continental Oil Co.

Southern Union Gathering Co.

