

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL DEEPEN, OR PLUG BACK

1. TYPE OF WORK

DRILL ☒PLUG BACK ☐

2. TYPE OF WELL

OIL WELL ☐GAS WELL ☒OTHER ☐SINGLE ZONE ☐MULTIPLE ZONE ☐

3. NAME OF OPERATOR

Tenneco Oil Company

4. ADDRESS OF OPERATOR

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

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

At surface

1080' FNL and 1605' FWL

Unit C

At proposed prod. zone

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

1.3 miles east of Aztec, N.M. on 173, 3 miles North on lease road,
then 1 mile east on lease road

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drg. unit line, if any)

16. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

16. NO. OF ACRES IN LEASE

320

17. PROPOSED DEPTH

5420'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

W/320

20. ROTARY OR CABLE TOOLS

Rotary

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

6100' GL

22. APPROX. DATE WORK WILL START*

Immediately upon approval

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#	+ 3130	Suff. to cement back to surface csg.
6 1/8"	4 1/2"	10.5#	+ 2930' - 5420'	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 + 3130 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.

SIGNED

D. D. Myers

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:

Okal

*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

(PAGE 2) for FLORANCE 4 A

12. SURFACE FORMATION IS - San Jose (Eocene)

13. FORMATION TOPS (Estimated)

Pictured Cliffs	2545	possible oil or gas producer
Cliff House	2935	possible oil or gas producer
Menefee	4665	possible oil or gas producer
Point Lookout	5140	possible oil or gas producer
Mancos Shale	5300	

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. 4-A
Unit Letter C	Section 10	Township 30 NORTH	Range 9 WEST	County SAN JUAN	
Actual Footage Location of Well: 1080 feet from the NORTH line and 1605 feet from the WEST line					
Ground Level Elev. 6100	Producing Formation Blanco Mesa Verde		Pool Blanco Mesa Verde	Dedicated Acreage W/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?

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

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

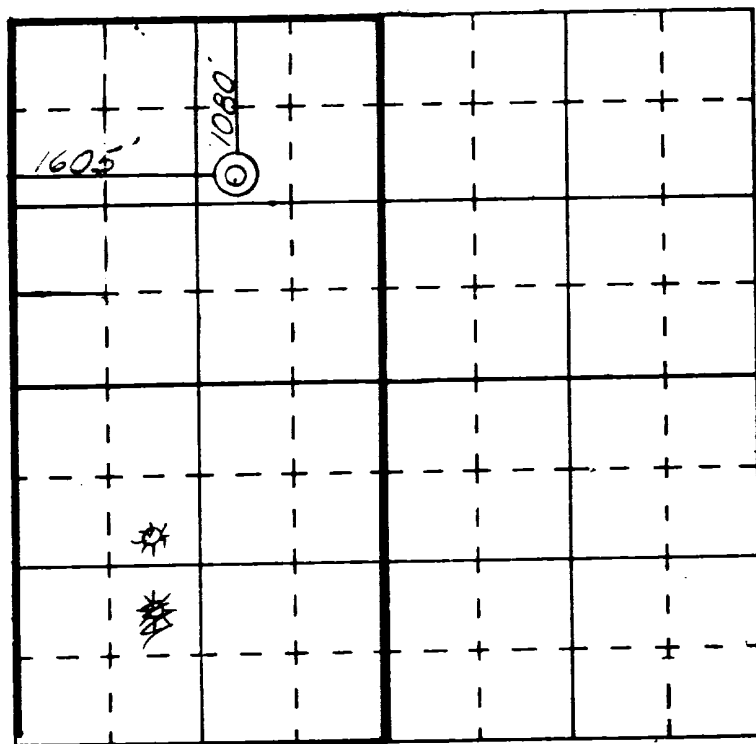
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name *James P. Lees*
 Position **Production Clerk**
 Company **Tenneco Oil Co.**
 Date **July 29, 1978**

STATE OF NEW MEXICO
JAMES P. LEES

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 *July 29, 1978*
James P. Lees
 Registered Professional Engineer
 and/or Land Surveyor



Certificate No. _____

FLORANCE 4 A
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 ±3130' 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:

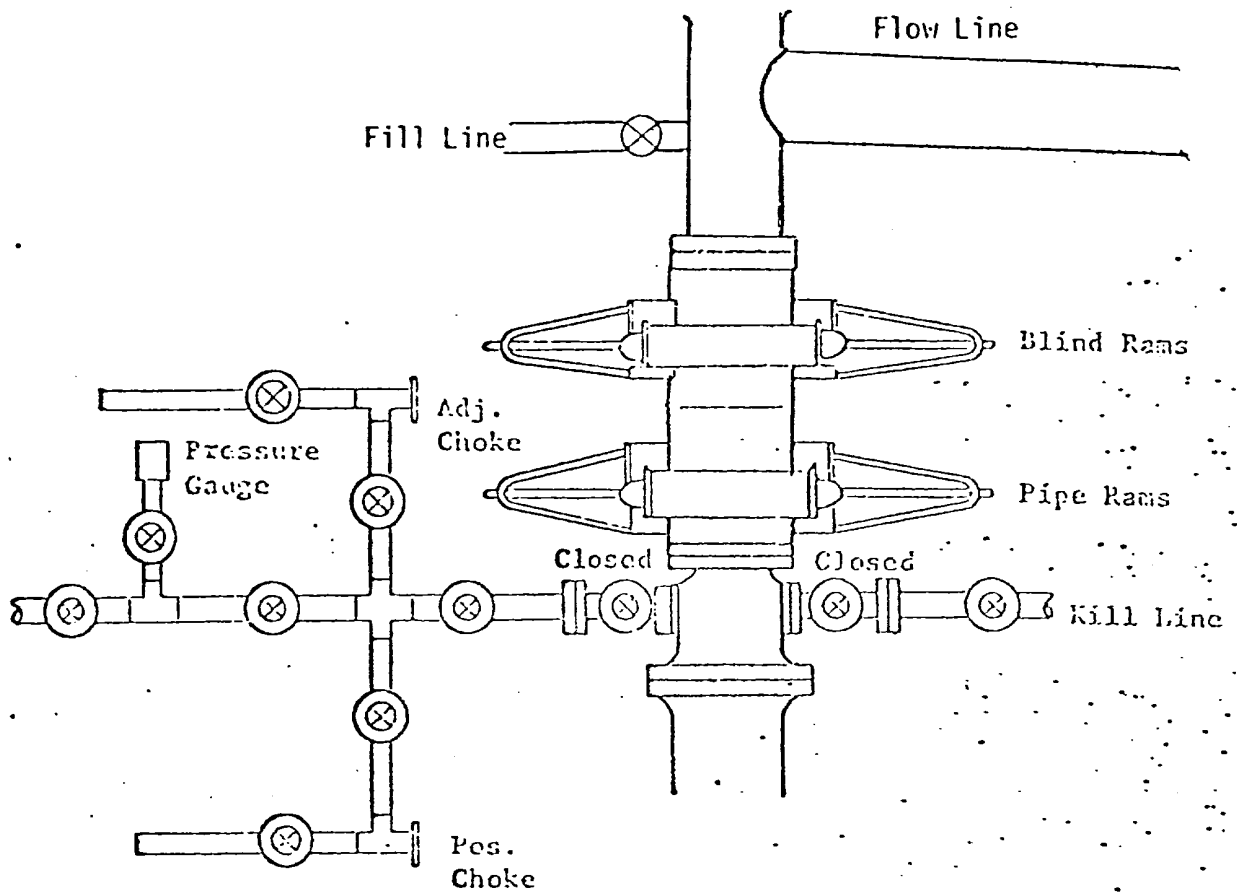
This is an area of known pressure. Maximum anticipated pressure at TD is 1200' psi. Anticipate no H₂S Gas.

7. Drilling Fluids:

0 - 200' Spud mud

200- 3130' Gel water - low solids as needed to maintain good conditions.

3130+ 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 4A, 1080' FNL & 1605' FWL
of Sec. 10, T30N, R9W, Lease SF
081098-A, 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 13 miles East of Aztec, New Mexico on Highway 173. Turn North 3 miles on a lease road then East 1 mile on a lease road and you will be at 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 Southeast.
 - d. Cut & Fill - 5' cut at North & West side tapering 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 - Low rolling hills. See Exhibit "A", topographic map of area.
 - (2) Soil - Extremely sandy soil
 - (3) Vegetation - Sparse grass, predominately sagebrush, and sparse grass.
 - (4) Surface Use - Unknown, possibly used for grazing.

- (5) Other - Drill site, sloping gently to East Southeast this is semi-arid desert country, and 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 "C" an arroyo runs 300' East by-- Southeast of location. (3' x 4' deep)

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 700' of new 14 foot wide road. New road is shown on Exhibit "C". No culvert will be required @ arroyo. A "dry" crossing will be made by cutting banks on each side. Will construct 3/8 mile road on West side of existing pipeline right of way.
- 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.

8-3-76
Date

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

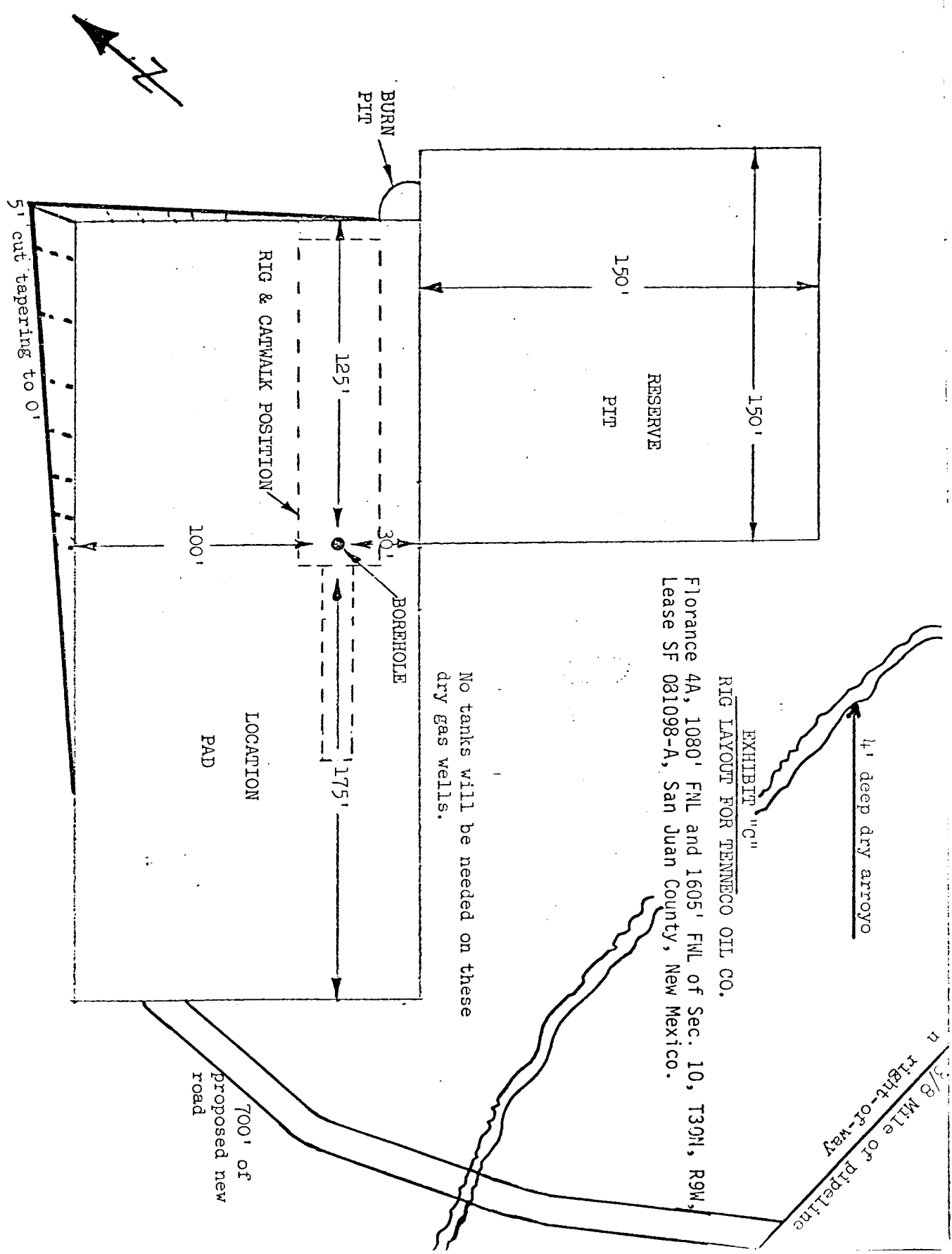


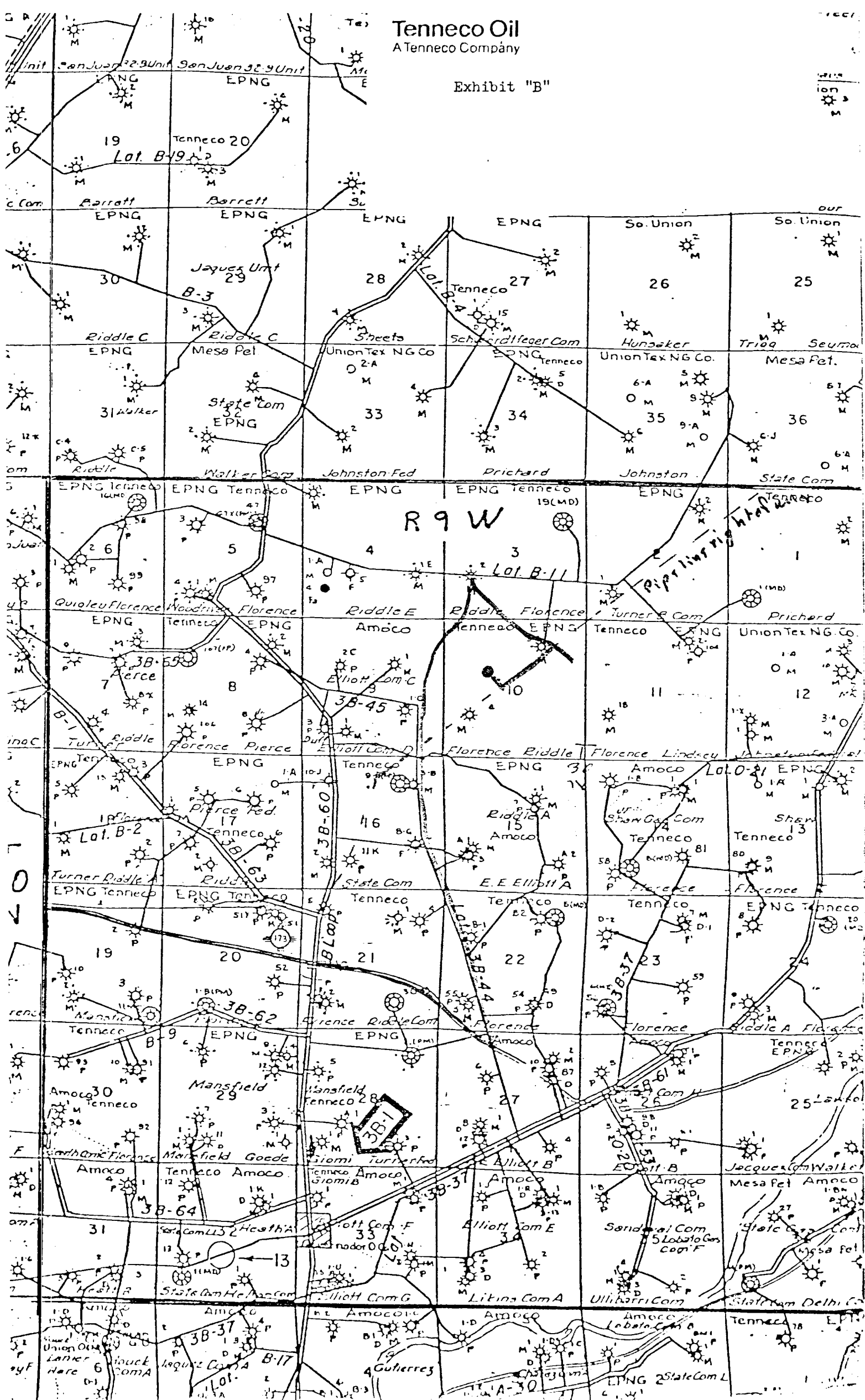
EXHIBIT "C"
 RIG LAYOUT FOR TENNECO OIL CO.
 Florence 4A, 1080' FNL and 1605' FNL of Sec. 10, T30N, R9W,
 Lease SF 081098-A, San Juan County, New Mexico.

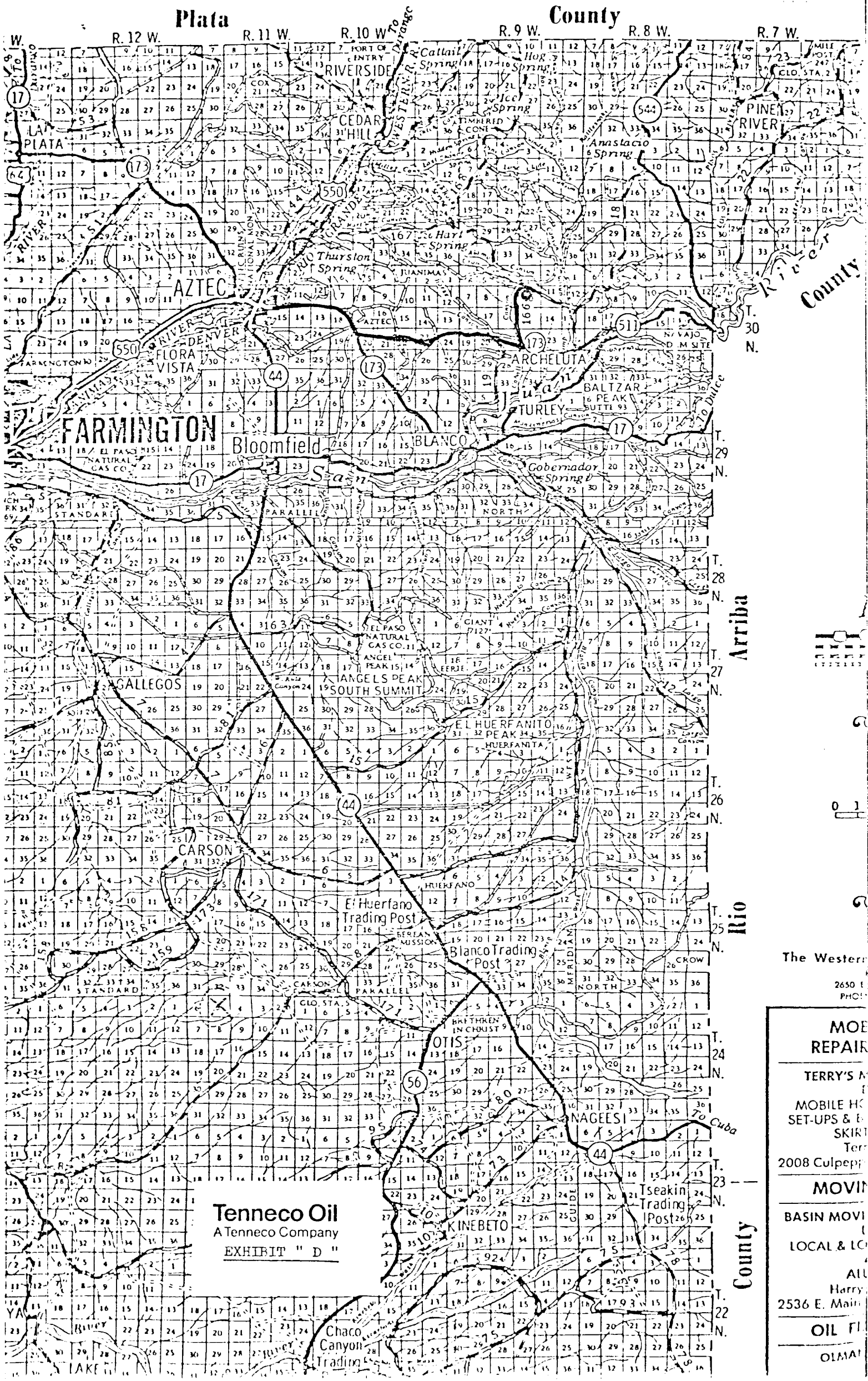
No tanks will be needed on these
 dry gas wells.

scale 1" = 50'

Tenneco Oil
A Tenneco Company

Exhibit "B"





Tenneco Oil
A Tenneco Company
EXHIBIT " D "

The Western
2650 E.
PHOENIX

MOE REPAIR

TERRY'S
MOBILE HO
SET-UPS & E
SKIRT
Terr
2008 Culpepp

MOVIN

BASIN MOVI
LOCAL & LO

ALL
Harry
2536 E. Main

OIL FI

OLMAI