UNITED STATES DEPARTMENT OF THE INTERIOR

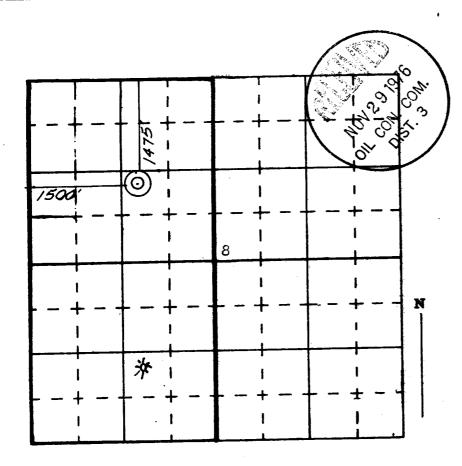
30 - 045-23374 5. LEANE DENIGNATION AND REVIAL NO.

GEOLOGICAL SURVEY					SF-078580-A			
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK					G. IF INDIAN, ALLOTTEE OR THIBE NAME			
In. Type of work						-		
	DRILL DEEPEN PLUG BACK						NAME	
							8. FARM OR LEASE NAME	
2. NAME OF OPERATOR	VELL LAS OTHER		7.	ONE LJ ZONE		Moore		
Tenneco Oil	Company					9. WELL NO.		
3. ADDRESS OF OPERATOR	3. ADDRESS OF OPERATOR							
1860 Lincol	1860 Lincoln St., Suite 1200, Denver, Colorado 80203					10. FIELD AND POOL.		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface					Blanco Mes			
14/5 At proposed prod. zor	<u>1475</u> FNL and <u>1500</u> FWL, Unit <u>F</u>					11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA		
At proposed prod. 200	ue					Sec. 8, T30N, R8W		
14. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POS	T OFFIC	E.		12. COUNTY OR PARIS	H 13. STATE	
	of Surface Use	Plan				San Juan	New Mexico	
15. DISTANCE FROM PROPE LOCATION TO NEARES	т		16. N	O. OF ACRES IN LEASE	17. NO. 0	OF ACRES ASSIGNED THIS WELL		
(Also to nearest dr)	g. unit line, if any)			320	١ ١	W/320		
TO NEAREST WELL, D	10 SENRIST WELL, DRIELING, COMPLETED,			20. ROTARY OR CABLE TOOLS				
	OR APPLIED FOR, ON THIS LEASE, FT. + 5655' RO				Rota	otary		
ZI. ELEVATIONS (SHOW WII	638	361				2/26/77	VONE WILL START*	
23.			VC ANI	CEMENTING PROGRA		2/20///		
				1				
12-1/4"	9-5/8"	36#	00T	SETTING DEPTH	<u> </u>	QUANTITY OF CEM		
8-3/4"	7"	23#			Suff.	Suff. to circulate to surface. Suff. to cement back to surface		
6-1/8"	4-1/2"	10.5#		± 3200'-5655'	Suff.	to cement ba	ck to surface ck to 7" csg.	
	ll well as follo	ws:		•	04	to cement bu	ck to / csg.	
1. MIRURT	, drill 12-1/4"	hole to ±	<u>200'</u> .					
2. Set and	d cement 9-5/8"	casing to	- 200)' & cement with	suff.	cement to ci	rc. to surfac	
	out with 8-3/4"							
4. Run 7" 5. Drill o	casing and ceme	ent back to	surt	ace casing.				
the 7"	out of 7" using casing shoe unt	yas as the	Circ	culating fluid,	do not	drill more t	han 10' below	
6. Drill	the hole to T. () log the	hole	dried up compi	etery	anu IS dustin drillsito goo	g. logist	
7. Run 4-1	and have do it by tog the hore dry as requested by all 11151te debildate.							
set iii	Set liner hanger and POH W/drill pipe.							
8. This we	ell will be comp	leted thro	ugh c	asing perforati	ons an	d/stimulated	astnecessary	
to esta	adiish commercia	l production	on.				1	
9. Clean up area. 10. Approximately 8 days will be required to drill this well								
10. Approximately 8 days will be required to drill this well. 11. The gas has been dedicated to Southern Union Gathering Co Continued to Page 2								
Continued to	Page 2	ronosal is to deen	en or n	lug hack give date on ne	ng co	10 60 51.		
zone. Il proposal is to t	nint of dechen directions	lly, give pertinent	data o	n subsurface locations and	d measured	nd true vertical dept	ths. Give blowout	
preventer program, if any 24.	··					<u> </u>		
	F B		Di	v. Drilling Eng	ineer.		1-71	
SIGNED	e. Merry	TIT	LE	v. billing eng		DATE	4-16	
(This space for Feder	ral or State office use)					_		
PERMIT NO.				APPROVAL DATE	-	KECLIV	<u> </u>	
APPROVED BY				<u>.</u>	Nights 9 1 10	76		
CONDITIONS OF APPROVAL, IF ANY:						710		
00 /20					1	U. S. GEOLOGICAL :	orining !	
oucas	j	** 1 -		O D 6:1	: 1	S. GLOLOGICAL	er each of the fi	

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACERAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section

Operator				Lease				Well No	
TENNEC	OIL COM	1PANY			MOORE			1-A	
Unit Letter J Sec	rion	Township		Range		County			
F	8	3 0 .	NORTH	8	WEST	SA	N JUAN		.
Actual Footage Location of Well:									
1475 fe	et from the	NORTH	line and	1500	fee	et from the	WEST	line	
Ground Level Elev.	Producing Fo	noitem	1	Pool				Dedicated Avered	_
6386	Blanco	Mesa Ve	rde	B1	anco Mes	a Verde		W/320	Acres
 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? 									
() Yes () No If answer is "yes," type of consolidationOne Lease.									
If answer is "no," necessary.)	list the owner	s and tract	descriptions, v	vhich hav	e actually	consolidate	ed. (Use_re		***************************************
No allowable will be pooling, or otherwi	e assigned to se) or until a	the well un non standa	til all interests rd unit, elimino	have bee	n consolid n interests,	ated (by a has been a	communitize approved by	ation, unitizati the Commissio	on, forced- in:



CERTIFICATION

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

Name	\sim 7
Position	1 July
Production Cl	erk
Tenneco Oil C	ompany
October 26, 2	COUNT ENGINEES
	STATE OF THE
I hereby certify that if	and iffilie mone of
this plat was plotted the	ines 1403 at a series
that the same is tree	-
knowledge and belief.	MARS P. LEGS.
that the same is true	MARS P. LEEST

14	October	1976

Date Surveyed

Registered Professional Engineer and/or Land Surveyor James P. Leese

1463

Certificate No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

(PAGE 2) for Moore 1A

12. SURFACE FORMATION IS San Jose (EOCENE)

- 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
 Calipher 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 ± 3500' 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. No abnormal pressure is anticipated.

- 7. Drilling Fluids:
 - 0 200 Spud mud
 - 200-3500' Gel water low solids as needed to maintain good conditions.
 - 3500 T.D. Compressed gas

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) - 21/5 lbs.

SMOOTH BROME (Bromus inermis) - 2½ lbs.

FOURWING SALTBUSH (dewinged) (Atriplex canescens) - 1/3 1b.

NOMAD ALFALFA (Medicago sitiva) - 1 lb.

BLM COLOR REQUIREMENTS IN THE FARMINGTON RESOURCE AREA

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

SURFACE USE PLAN

TENNECO OIL COMPANY'S Moore #1A, NW/4 of Sec. 8, T30N, R8W, Lease #SF 078580-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.

- AREAL ROAD MAP Exhibit "A" is a portion of a USGS topographic map, San Juan County, New Mexico, showing existing black top roads. Approximately 14 miles east of Aztec, New Mexico on highway 173, turn north 3-1/2 miles on shortcut to 544.
- 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'
 - 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 West.
 - d. Cut & Fill 1' 3' cut
 - 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 North.
 - 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. Site has been chained.
 - (4) Surface Use Unknown, possibly used for grazing.

(5) Other - Drill site, which is on top of Manzanarres Mesa, is in a low environmental risk area. The effect of drilling this well and other wells in this area, would be minimal.

q. 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 1320 of new 14 foot wide road.
- c. Fences, Gates and Cattleguards -
- 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 has been furnished by Pat Zarnowski 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

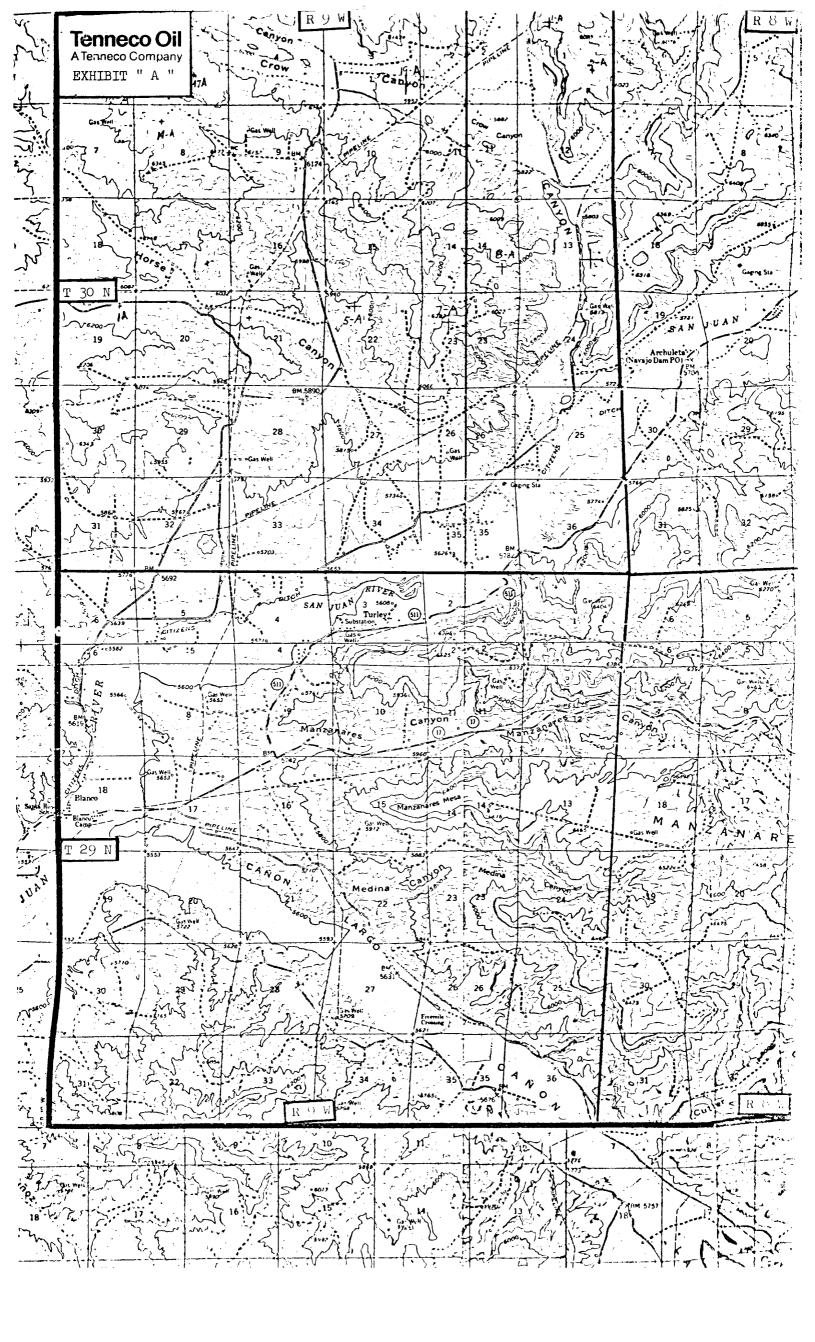
12. CERTIFICATION

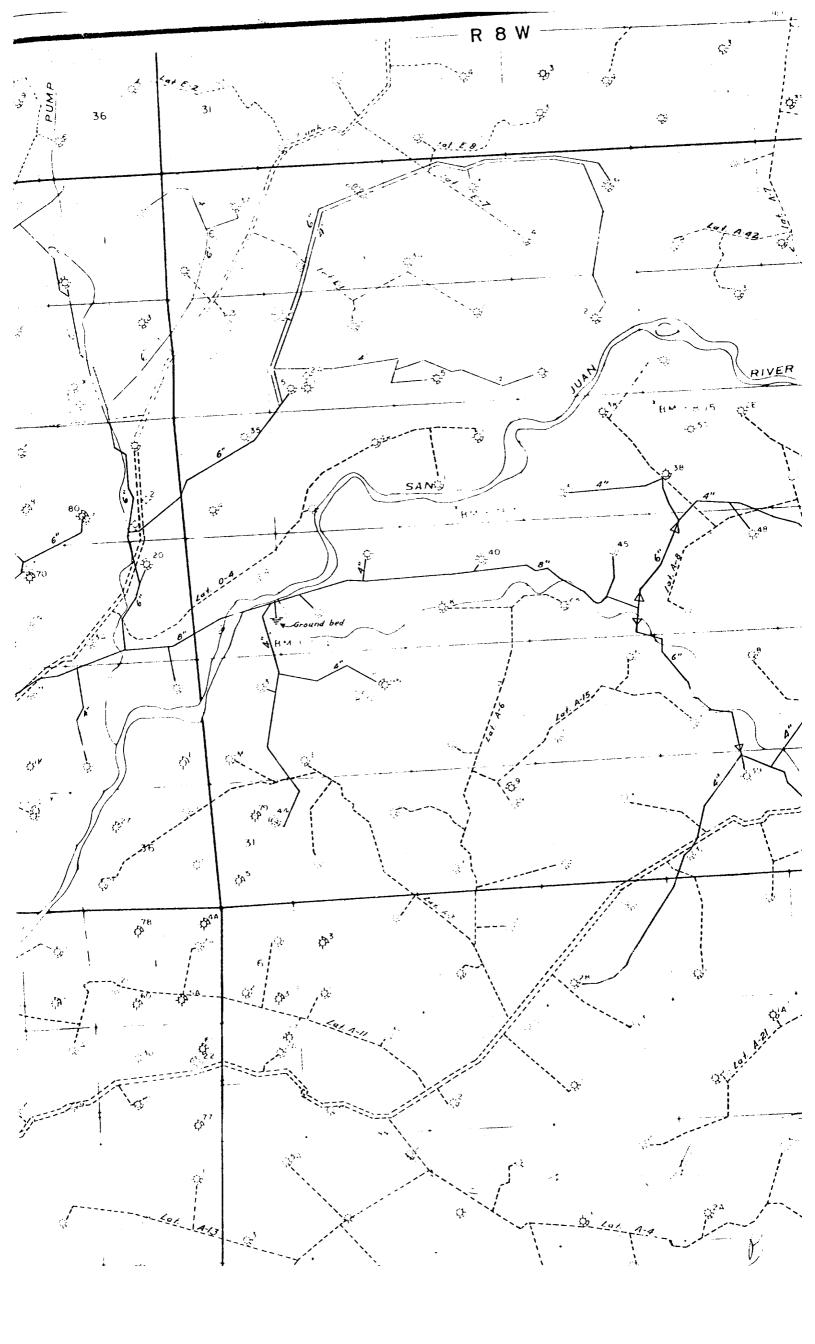
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions as they actually exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the proposed work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

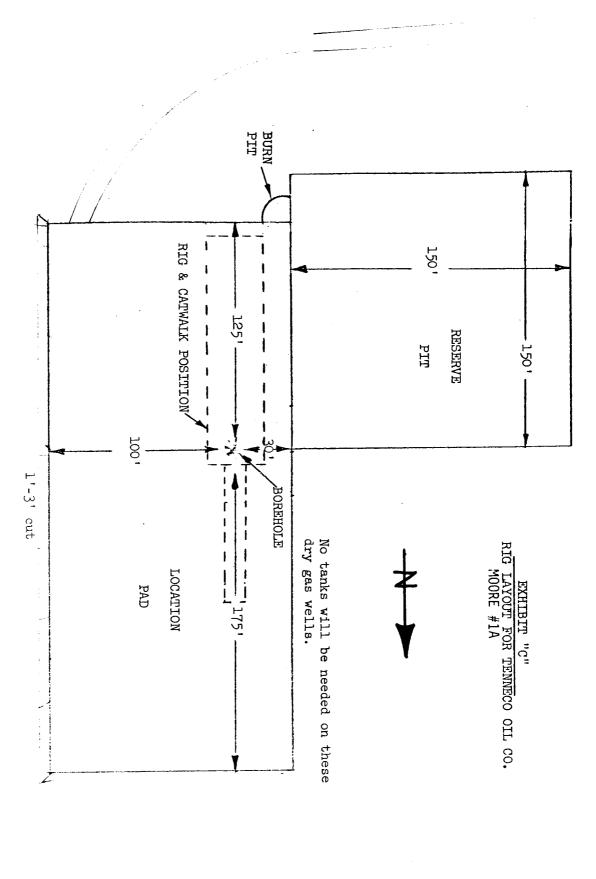
11-4-76 Date

D. E. Brown

Div. Drilling Engineer







Proposed new road

scale 1" = 50'

