SUBMIT IN TRIPLICATE.

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES					
DEPARTMENT	OF	THE	INTERIOR		

30-045	-24126
5. LEASE DESIGNATION	AND SERIAL NO.

			E 1			SF 080246		
APPLICATION	Y FOR PERMIT	O DRILL,	DEEPE	N, OR PLUG	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
a. TYPE OF WORK						7. UNIT AGREEMENT NAME		
b. TYPE OF WELL	ILL 🖾	DEEPEN		PLUG BA				
OIL O	ELL XX OTHER			NGLE MULT NE ZONE	IPLE .	S. FARM OR LEASE NAME		
. NAME OF OPERATOR						Florance		
Tenneco	0il Company					9. WELL NO.		
. ADDRESS OF OPERATOR						124.		
720 S.	Colorado Blvd.	Denver, Co.	. 8022	22		10. FIELD AND POOL, OR WILDCAT		
. LOCATION OF WELL (R. At surface	eport location clearly and	in accordance wi	th any S	tate requirements.*)		Basin Dakota —		
650 FNL	. 1820 FWL					11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA		
At proposed prod. zon						9		
				·		Sec 27, T29N R W		
4. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POS	T OFFICE	•		12. COUNTY OR PARISH 13. STATE		
3.6 mil	es East South E	ast of Blar	ico. I	J_M		San Juan N.M.		
O. DISTANCE FROM PROPU LOCATION TO NEAREST	JSED*		16. NO	. OF ACRES IN LEASE		O. OF ACRES ASSIGNED THIS WELL		
PROPERTY OR LEASE L (Also to nearest drig	LINE, FT.		944 77			/320.00		
8. DISTANCE FROM PROP	OSED LOCATION*			OPOSED DEPTH	20. ROTA	20. ROTARY OR CABLE TOOLS		
OR APPLIED FOR, ON THE	IS LEASE, FT.		1 6	5610	1	Rotary		
1. ELEVATIONS (Show who	ether DF, RT, GR, etc.)		·			22. APPROX. DATE WORK WILL STAR		
5607 GR						ASAP		
3.		PROPOSED CASI	NG AND	CEMENTING PROGI	RAM 9			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	TOOT	SETTING DEPTH		QUANTITY OF CEMENT		
12 3/4"	9.5/811 new	36#K55		± 200¹	15000	SX Class B+2%CaClo		
8 3/4"	7'' new	23#K55		±4700'		late to surface		
6 111	4 1/2 New	10.5#-11.6	5#	±6610'	1 .) po≵mix, 2% Gel -		
		1	" . I			ed by 100 SX Class B		
						or by troop on ording by		
See Attache	d							
No abnormal	temperatures.	pressures o	or dec	logic hazards	are evr	perted		
No abnormal	temperatures,	pressures c	or geo	ologic hazards	are exp	ected		
		pressures c	or ged	ologic hazards	are exp	pected		
No abnormal		pressures c	or geo	ologic hazards	are exp	pected		
		pressures c	or geo	ologic hazards	are exp	pected		
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		pressures c	or geo	ologic hazards	are exp	pected		
		pressures c	or geo	ologic hazards	are exp	pected		
THE GAS IS	<u>DEDICATE</u> D							
THE GAS IS	DEDICATED	proposal is to dee	pen or p	lug back, give data on	present prod	ductive zone and proposed new product		
THE GAS IS N ABOVE SPACE DESCRIBE One. If proposal is to reventer program, if an	DEDICATED E PROPOSED PROGRAM: If drill or deepen directions	proposal is to dee	pen or p	lug back, give data on	present prod	ductive zone and proposed new product		
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DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED *See Instructions On Reverse Side "GENERAL REQUIREMENTS"

MMOCC

STATE OF NEW MEXICO

P. O. BOX 2088 LHERGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501

Form C-102 kevised 10-1-7

es must be from the cuter houndaries of the Section.

		All distances must be	from the cuter flaunder	IFF OF THE SPECIAL		
Operator			Lease			Well No.
- TENNECO OI	L COMPANY		FLORANCE	<u> </u>		124
Unit Letter	Section	Township	Range	County		•
C	27	2 <i>9</i> N	9W	San	Juan	
Actual Footage Loc			2022			
650		rth line on		feet from the	West	line Dedicated Acreage:
Ground Level Elev.	Producing For		Pool			
5607	Dak		Basin_Dakot			1
 If more the interest ar If more the 	an one lease is nd royalty).		ell, outline each an	ad identify the	ownership t	hereof (both as to working
Yes If answer this form i	No If an is "no," list the f necessary.)	owners and tract de	e of consolidation _ scriptions which he all interests have b	ave actually be	ed (by con	ated. (Use reverse side of
forced-poo sion.	ling, or otherwise)	or until a non-stand	ard unit, climinatin	g such interest	s, has beer	approved by the Commis-
sion.					1	
	50,					CERTIFICATION
1820	9-0				tained he	certify that the information con- trein is true and complete to the by knowledge and belief.
	go Wash		1		Position Staff	e Freeman Production Analyst
1		\	i	ĺ	Compony	co Oil Company
Ter	nneco - 1/2 s	Sec.	. 1		Date	ber 20, 1979
	080246 320.00 acres	27	DEC25	FD 31979 com	shown on notes of under my is true knowledge Date Surve Novem	certify that the weil location this plat was plotted from field actual surveys made by me or supervision, and that the same and correct to the best of my re and belief. The processional Engineer description of the surveyor of the surveyo
					Fred	No.
0 230 440	90 1320 1650 19	30 2310 2640 2	000 1800 1000	50¢ 0	3950	

TENNECO OIL COMPANY ROCKY MOUNTAIN DIVISION PENTHOUSE, 720 SOUTH COLORADO BOULEVARD DENVER, COLORADO 80222

DRILLING PROCEDURE

DATE:

November 19, 1979

LEASE:

Florance

WELL NO.: 124

LOCATION: 650 - FNL, 1820 FWL Sec. 27, T 29N, R 9W

San Juan County, New Mexico

FIELD: Basin Dakota

ELEVATION: 5620' Est. G.L. - 5731'Est. K.B.

TOTAL DEPTH:

66101

PROJECTED HORIZON: Dakota/Mesaverde

APPROVED BY: ALL 21. Clare

DK/ms

1st Rev.

ESTIMATED FORMATION TOPS

OJO Alamo	1015	(Water)
Pictured cliffs	2080	(Gas)
Lewis Shale	2130	
Cliffhouse	3735	(Gas)
Menefee	3790	(Gas)
Point Lookout	4310	(Gas)
Mancos	4494	
Gallup	5505	(0il)
Greenhorn	6250	
Dakota	6358	(Gas)
T.D.	6610	

Surface Formation: Nacimiento

No abnormal temperatures or pressures are expected.

DRILLING, CASING, AND CEMENT PROGRAM

- 1. MIRURT.
- 2. Drill a 12 3/4" hole to + 200'.
- 3. RU and run 9 5/8", 36#, K-55, ST&C casing.
- 4. Cement with 150 sx Class B ÷ 2% CaCl₂.
- 5. WOC a minimum of 12 hours. Nipple up BOP's, choke manifold, and kill line. Pressure test rams, lines and casing to 600 psi for 30 minutes. Record test on IADC Drilling Report.
- 6. Drill an 8 3/4" hole 150-200' into the Mancos Shale. Treat mud system for possible lost circulation before penetrating the Mesa Verde.
- 7. RU and run 7", 23#, K-55, ST&C casing to $4700'\pm$
- 8. Cement in two stages with sufficient volume to circulate cement to surface. Use 50/50 pozmix, 4% gel tailed by 150 sx of Class B ÷ 2% CaCl₂. Precede cement with a chemical preflush. Place DV at top of MV and use cement baskets in first stage.
- 9. WOC a minimum of 18 hours. Pick up 3 1/2" drill string and drill to within 5' of shoe. Displace water with N₂ and soap. Drill shoe and 5' of formation. Blow hole with gas until dusting.
- 10. Drill a 6 1/4" hole to T.D.
- 11. Log open hole as directed by G.E. Department.
- 12. RU and run 4 1/2", 10.5=/11.6#, K-55, LT&C liner to T.D. leaving 150' of overlap.
- 13. Set liner and cement with 50/50 pozmix, 2% gel tailed by 100 sx Class B. Use a chemical preflush ahead of cement.
- 14. Reverse out excess cement, LDDP and install X-mas tree.
- 15. MORT.
- 16. If well is non-productive, plug and abandon as per regulatory agency specification.

CASING PROGRAM

0-200 9 5/8", 36#, K-55 ST&C

0-4700 7", 23#, K-55, ST&C

4550-6610 (2060') 4 1/2", 10.5#, K-55, LT&C

MUD PROGRAM

0-200 Native solids. Have sufficient viscosity to clean hole and run casing.

200-4700 Benex and water. Have sufficient viscosity to run casing.

4550-6610 Pretreat for lost circulation in Mesa Verde.

Gas.

EVALUATION

Cores and DST's:

No cores or DST's are anticipated.

Deviation Surveys:

- 1. Survey surface every 100'. Maximum allowable deviation at surface is 1° .
- 2. From surface to T.D., surveys must be taken every 500', or each trip, whichever is first. This may entail running the TOTCO on wireline.

 Record surveys on IADC Drilling Report. Maximum allowable change is 1° per 100'.

Samples:

Logs: Two logging runs.

- 1. GR/INC: T.D. to surface; Comp Neutron Density through MV only.
- 2. GR/IND: T.D. to intermediate; Comp Density with GR, T.D. to 3/Pt Lookout.

BLOWOUT EQUIPMENT

10", 3000 psi, double ram hydraulic operated with closing unit and 40 gallon accumulator.

10", 150 psi, rotating head and 7" blooie line.

REPORTS

Drilling reports for the past 24 hours will include depth, footage, time distribution, activity breakdown, mud properties, bit record, bottom hole assembly, daily and cumulative mud costs, plus any other pertinent information, will be called into Tenneco Oil Company, Denver, Colorado, between 7:30 a.m. and 8:00 a.m.

- 1. 303-758-7130 (office) Don Barnes.
 303-758-7287 (office) Don Barnes' private line, Monday-Friday (before 7:45 a.m.)
- 2. 303-936-0704 (home) Don Barnes, weekends and holidays.
- 3. 303-795-0221 (home) John Owen, if Don Barnes is not available.

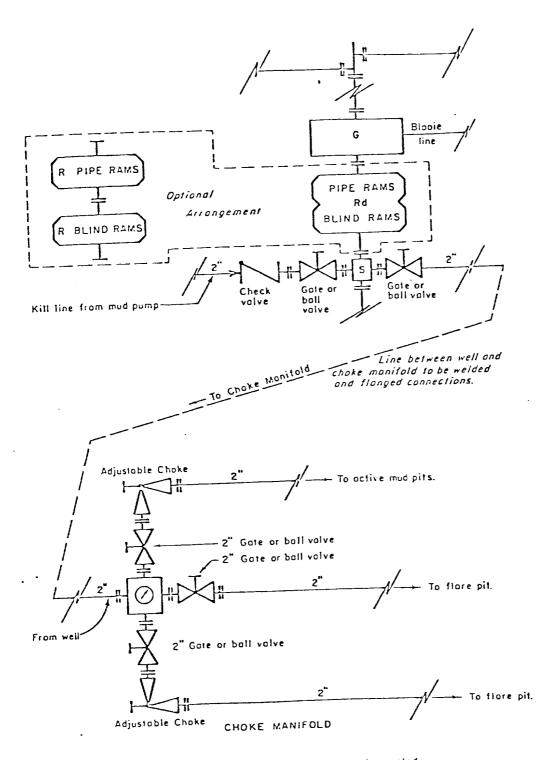
The yellow sheet of the IADC Report to be filled out completely, the original copy of the drilling time recorder, and copies of any invoices from this well, signed and received for Tenneco Oil Company will be mailed daily to:

TENNECO OIL COMPANY
ROCKY MOUNTAIN DIVISION
PENTHOUSE, 720 SOUTH COLORADO BOULEVARD
DENVER, COLORADO 80222

ATTENTION: Drilling Department

In case of emergency, notify the following:

- 1. Mr. Don Barnes, Division Drilling Engineer 303-936-0704
- 2. Mr. John Owen, Project Drilling Engineer 303-795-0221
- 3. Mr. Mike Lacey, Division Production Manager 303-979-0509



All equipment to be 3,000 psi working pressure except as noted.

- Rd Double ram type preventer with two sets of rams.
- Single ram type preventer with one set of rams.
- Drilling spool with side outlet connections for choke and kill lines.
- S Rotating head 150 psi working pressure minimum

ARRANGEMENT C

TENNECO OIL COMPANY ROCKY MOUNTAIN DIVISION REQUIRED MINIMUM BLOWOUT PREVENTER AN CHOKE MANIFOLD J. MAGILL 10-26-79 EVI

- 1. Existing Road Please refer to Map No. 1 which shows the existing roads. New roads which will be required have been marked on this map. All existing and new roads will be properly maintained during the duration of this project.
- 2. Planned Access Roads Please refer to Map No. 1. The grade of the access roads will be consistent with that of the local terrain. The road surface will not exceed twenty feet (20') in width. Upon completion of the project, the access road will be adequately drained to control soil erosion. Drainage facilities may include ditches, water bars, culverts or any other measure deemed necessary by trained Company personnel to insure proper drainage. Gates and/or cattleguards will be installed if necessary.
- 3. Location of Existing Wells Please refer to Map No. 2.
- 4. Location of Tank Batteries, Production Facilities, and Production Gathering and Service Lines Please refer to Maps No. 1 and No. 2. Map No. 2 shows the existing roads and new proposed access roads. All known production facilities are shown on these two maps.
- 5. Location and Type of Water Supply Water for the proposed project will be obtained from a private source.
- 6. Source of Construction Materials No additional materials will be required to build either the access road or the proposed location.
- 7. Methods of Handling Waste Materials All garbage and trash materials will be put into a burn pit shown on the attached Location Plat No. 1. When clean-up operations are begun on the proposed project, the burn pit with its refuse will be buried to a depth of at lease three feet (3'). A latrine, the location of which is also shown on Plat No. 1. will be provided for human waste. If large amounts of liquids are I left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying any of these materials into the watershed. No earthen pit will be located on natural drainage; all earthen pits will be so constructed as to prevent leakage from occurring.

- 8. Ancillary Facilities No camps or airstrips will be associated with this project.
- 9. Wellsite Layout Please refer to the attached Plat No. 1.
- 10. Plans for Restoration of the Surface After completion of the proposed project
 the location will be cleaned and leveled. The location will be
 left in such a condition that will enable reseeding
 operations to be carried out. Seed mixture as designated
 by the responsible government agency will be used. The
 reseeding operation will be performed during the time
 period set forth by the regulatory body. The location
 production equipment will be painted as designated by the
 responsible government agency.
- 11. Other Information The proposed site is located in the flood plain of Largo Wash. The site is on the north side of the dry wash bed with the channel on the south side. The soil is sandy, sandy silt. The principal vegetation is native grasses.
- 12. Operator's Representative -

SEE DRILLING PROGNOSIS

13. Certification -

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements mad in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Tenneco Oil Company Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

L. Freeman

Staff Production Analyst

TENNECO OIL COMPANY

CALCULATION SHEET

