SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

30-045-24209

5. LEASE DESIGNATION AND SERIAL NO.

	SF 081098-A									
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK							6. IF INDIAN, ALLOTTEE OF TRIBE NAME			
1a. TYPE OF WORK			r							
	ILL 🗵	DEEPEN (PLU	IG BA	CK 🗌	7. UNIT AGREEMENT NAME			
b. TYPE OF WELL	AS OTHER		SING		MULTIP	re [S. FARM OR LEASE NAME			
2. NAME OF OPERATOR	ELL A OTHER		ZONI		ZONE	<u> </u>	Florance			
	Oil Company						9. WELL NO.			
3. ADDRESS OF OPERATOR							19E -			
720 Sout	th Colorado Blvd	., Denver,	Colora	ido 8022	2	•	10. FIELD AND POOL, OR WILDCAT			
4. LOCATION OF WELL (R At surface	eport location clearly and	in accordance wit	h any Sta	te requiremen	ts.*)		Basin Dakota			
	L, 890 FWI FEL						11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA			
At proposed prod. zon	ie						Cog 2 m 20M D 0M			
14 DISTANCE IN MILES	AND DIRECTION FROM NEAR	EST TOWN OR POR	T OFFICE®				Sec. 3, T 30N, R 9W			
	north of Navajo		· OFFICE				San Juan New Mexico			
10. DISTANCE FROM PROPO	SED®		16. NO.	OF ACRES IN I	LEASE		OF ACRES ASSIGNED			
LOCATION TO NEAREST PROPERTY OR LEASE I (Also to nearest drig	INE, FT.		19	31.38		TOT	то тнів well - Е 321.38			
19 DISTANCE FROM PROP	OSED LOCATION®			OSED DEPTH		20. ROTA	20. ROTARY OR CABLE TOOLS			
TO NEAREST WELL, D OR APPLIED FOR, ON TH	IS LEASE, FT.		7440'			•	Rotary			
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)						22. APPROX. DATE WORK WILL START*			
6018 GR						· ·	A.S.A.P.			
23.	P	ROPOSED CASIN	G AND C	CEMENTING	PROGRA	M.				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	OOT SETTING DEPTH		QUANTITY OF CEMENT					
13 3/4"	9 5/8" new	36# , k−5			Circulate to surface					
8 3/4"	7" new	23#, K-5		+ 3600 ·		Circulate to surface				
6 ¹ / ₄ "	4½" new	10.5#,]	L1.6#	<u>+</u> 7440	•	Ci.	rculate through liner hanc			
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See Attached	đ									
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				•		•	DIST. 3			
zone. If proposal is to preventer program, if any	drill or despen directional						uctive zone and proposed new productive l and true vertical depths. Give blowout			
24. M. S.	Treeman				_					
signed M. Lee	Freeman	TIT	LESta	aff Produ	ction	Analys	t DATE 1/25/80			
(This space for Fede	ral or State office use)				···········					
						•				
PERMIT NO.			AP	PROVAL DATE _		,	FERTIVED			
APPROVED BY		TIT	LE			À P	FFROVED AMENDED			
CONDITIONS OF APPROV	AL, IF ANY:					TAS	3 AIVTES			

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS" al Fruh

*See Instructions On Reverse Side

DISTRICT ENGINEER - KINNOCC

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-102 Revised 10-1-78

	_		All distance	a must be fro	m the cute	r kiounderles	of the Section		
perator Lease									Well No.
TENNECO OIL COMPANY				FLORANCE				19-E	
it Letter	Section Township			Range County					
I	3		30N=	=		9W	San	Juan	
tual Footage Loc	ation (of Well:							
1750	feet	from the	South	line and	į	890	feet from the	East	line
ound Level Elev.		Producing For			Pool				Dedicated Acreage:
60 18		Dakota	2		Bas	in Dakot	a		E 321 38 -
- 								•	<u> </u>
2. If more th interest ar	ian o	ne lease is valty).	dedicated	to the well	, outline	each and	identify the	ownership	he plat below. thereof (both as to working f all owners been consoli-
	ommı	initization, u	nitization,	force-pooli	ng. etc?				all owners been conson-
this form i	f nec	essary.)	<u> </u>						ated. (Use reverse side of
		-						-	nmunitization, unitization, approved by the Commis-
		 							CERTIFICATION
		LIVET) \ i	SF-08	1098A	! 		•	certify that the information con-
F	E	LEIVET		Tenne	co Oil	 Company	- ½	1	erein is true and complete to the my knowledge and belief.
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		GEOLOGICAL N	<u>M</u>					Nome M.	Lee Freeman
\	الا کا مسمہ	GEOLOGICAL S ARMINGTON, N		321.3	8	l I O		Position	ff Production Analyst
		1		-		 		Company Teni	neco Oil Company
		l Se	c.			! !		Date 1-25	5-80
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330 660	90 1	320 1650 1980	2310 2640	2000	1500	1000	500 0	Certificate	Mo. B. KERR. JR.

TENNECO OIL COMPANY

PROGNOSIS TO DRILL AND COMPLETE

DIVISION: Rocky Mountain DATE: September 12, 1979

LEASE: Florance WELL NO.: 19E

LOCATION: 1750' FSL, 890' FEL, SE/4
Sec. 3, T 30N, R 9W FIELD: Basin Dakota

San Juan County, New Mexico

ESTIMATED ELEVATION: 6030'

ESTIMATED TOTAL DEPTH: 7440'

PROJECTED HORIZON: Dakota

DRILLING, CASING AND CEMENT PROGRAM:

(1) MIRURT.

- (2) Drill a 13-3/4" hole to 300+. Run 9 5/8", 36#, K-55, ST&C casing to T.D. and cement to surface. Use 2% CaCl₂ in cement.
- (3) Cut off casing and weld on casing head. Pressure test weld to 1000 psi. NUBOP's and manifold. Pressure test casing, BOP's and manifold to 1000 psi for 30 minutes.
- (4) Drill out shoe and reduce hole to 8 3/4". Drill 8 3/4" hole to 3600±. Run 7", 23#, K-55, ST&C casing to T.D. and cement to surface. (Set 7" 200-300' into Lewis shale.)
- (5) Land casing is slips and cut off. Install drilling spool on casing head. Install rotating head, manifold and flare line. Pressure test blind rams, manifold and casing to 1000 psi for 15 minutes. Pick up drilling assembly and 3 1/2" drill
- (6) Drill out of 7" with 6 1/4" bit. Drill to within 5' fo shoe and displace water with Nitrogen. Drill 5' of formation and blow with gas until well dusts. Drill to TD.
- (7) Log the hole dry as directed by the wellsite geological engineer and gauge the natural flow from the Dakota.
- (8) If productive, run 4 1/2" casing to T.D. as per casing design. Cement in one stage. Bring cement to above Mesaverde zone.
- (9) If nonproductive, plug and abandon as per U.S.G.S. requirements.

ESTIMATED FORMATION TOPS:

OJO Alamo Pictured Cliffs	1 620' 2880	(Water) (Gas)	Point Look Out Mancos	5040' 5360' 6330' 7050' 7160'	(Gas)
Lewis Cliffhouse Menefee	2940' 4560 4690'	(Gas) (Gas) (Gas)	Gallup Greenhorn Dakota "A"		(Gas)
			T.D.	7440'	

Surface formation San Jose

DRILLING MUD PROGRAM:

0 - 300' Spud Mud.

300' - 3600' Low solids fresh water mud. Use Benex to flocculate mud as needed. No WL control.

3600' - T.D. Gas.

CORING AND TESTING PROGRAM:

No cores or tests.

DEVIATION SURVEYS:

- 1. Survey surface hole at 100' intervals. Maximum allowable deviation at 250' is $\frac{1}{2}$ °.
- 2. FROM SURFACE TO TOTAL DEPTH DEVIATION SURVEYS MUST BE TAKEN EVERY 500' OR EACH TRIP WHICHEVER IS FIRST. This may entail running the TOTCO on wireline. Record each survey on the AAOOC Drilling Report Sheet. Maximum allowable change in deviation is 1° per 100'.

SAMPLES:

As directed by wellsite geological engineer.

WELL SURVEYS:

Majority of logs will be cased hole GR - Neutron or TDT.

A few will be open hole GR - Induction.

BOP:

PREVENTORS MUST BE CHECKED FOR OPERATION EVERY 24 HOURS, AND THE CHECK MUST BE RE-CORDED ON THE AAODC DRILLING REPORT SHEET.

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.

- 303-758-7130 (office) Don Barnes
 303-758-7287 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 not available

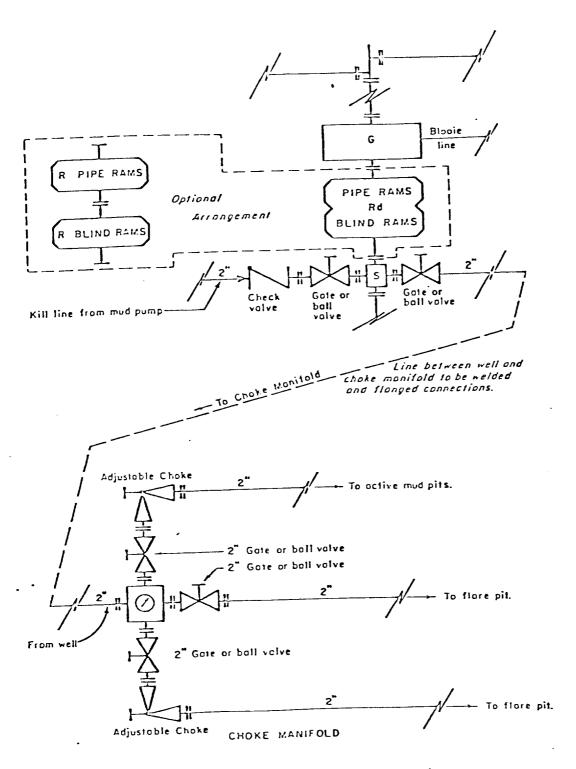
The yellow sheet of the IADC Report to be filled out completely, the original copy of the drilling time recorder, and copies of any invoices from this well signed and received for Tenneco Oil Company will be mailed daily to:

TENNECO OIL COMPANY
PENTHOUSE
720 SOUTH COLORADO BOULEVARD
DENVER, COLORADO 80222

ATTENTION: DRILLING DEPARTMENT

In case of an 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 os noted.

- Double rom type preventer with two sets of roms. Rd
- Single rom type preventer with one set of roms.
- Drilling spool with side outlet connections for choke and kill lines.
- 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

- 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 } 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 at the mouth of Crow Canyon on slightly rolling topography. The soil is sandy, sandy loom, supportin sage, Pinon Juniper and Native grasses. The surface and minerals are held in public domain.
- 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 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 EXHIBIT RILLING WELL SITE LAYOUT FLORANCE 19E DATE 1-14-80 1750FSL 890FEL Sec 3 T30N 29W 250 New ZOAd 5 BUNK HOUSE RESERVE MUD PITS PIT DRILLING RIG 40 8 **Ç**√ELL-FLARE PIT PIPE RACKS 2 BURN **PARKING** PIT AREA

