## SUBMIT IN TRIPLICATE.

(Other instructions on

Form approved. Budget Bureau No. 42-R1425.

**UNITED STATES** 

reverse side)	30-045-34596
	50 070 970 96

		GICAL SURV	ΈΥ				5. LEASE DESIGNATION AND SERIAL NO. NM-03380	
APPLICATION	Y FOR PERMIT	TO DRILL,	DEEP	EN, OR	PLUG B	ACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
1a. TYPE OF WORK DR	ILL 🗵	DEEPEN		i	PLUG BAC	ж 🗆	7. UNIT AGREEMENT NAME	
WELL O.	ELL X OTHER			INGLE X	MULTIPI Zone		S. PARM OR LEASE NAME	
2. NAME OF OPERATOR					ZONE		Florance	
Tenneco Oil	Company						9. WELL NO.	
3. ADDRESS OF OPERATOR		-				*	68E	
	720 So. Colorado Blvd., Denver, Colorado 80222				10. FIELD AND POOL, OR WILDCAT			
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)  At surface				Basin Dakota				
At proposed prod. some	IL, 1770 FEL						11. SEC., T., R., M., OE BLE. AND SURVEY OF AREA  Sec. 20, T27N, R8W	
14. DISTANCE IN MILES			T OFFIC	E.			12. COUNTY OR PARISH   13. STATE	
Approx. 13 m	iles SE of Blan	co, N.M.					San Juan N.M.	
10. DISTANCE FROM PROPUSED® LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to pearest drig, unit line, if any)			16. NO. OF ACRES IN LEASE 17. NO. TO T		F ACRES ASSIGNED HIS WELL 320			
18. DISTANCE FROM PROPO TO NEAREST WELL, DE	RILLING, COMPLETED.		19. rs	ROPOSED DEP	гн	20. ROTARY OR CABLE TOOLS		
	OR APPLIED FOR ON THIS LEASE, FT. ±7480'			Rotary				
21. ELEVATIONS (Show whe							22. APPROX. DATE WORK WILL START*	
67 23.	31 GR	· · · · · · · · · · · · · · · · · · ·		<del></del>			May 1981	
23.	P	ROPOSED CASIN	NG ANI	CEMENT	NG PROGRAI	M		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	00T	SETTIN	G DEPTH		QUANTITY OF CEMENT	
12 1/4"	9 5/8" new	36#		±	250'	Circul	ate to surface	
8 3/4"	7" new	23#		±3-	400 °		ate to surface	
6 1/4"	4 1/2" new	10.5#, 11	L.6#	±7-	480'		ate to liner top	

See attached.

The gas is dedicated.



BIGNED D. J. Mishle		nalyst	September 11,	— 1980
(This space for Federal or State office use)	111111	·	DATE	
(Inis space for rederat or State omce use)		• • •		
PERMIT NO.	APPROVAL DATE			
		r* -		
CONDITIONS OF APPROVAL, IF ANY:	TITLE		DATE	

\*See Instructions On Reverse Side

13-1

# STATE OF NEW MEXICO EMERGY AND MINERALS DEPARTMENT

## OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-107 Revised 10-1-78

All distances must be from the cuter boundaries of the Section. Well No. Operator 68F. TENNECO OIL COMPANY FLORANCE Township County Unit Letter Range 8w 20 27N San Juan Actual Footage Location of Well: North East feet from the feet from the line Ground Level Elev. Producing Formation Dedicated Acreans 6731 Dakota Basin Dakota 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 X No If answer is "yes," type of consolidation. If answer is "no," list the owners and tract descriptions which have actually been 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 Commis-CERTIFICATION I hereby certify that the information con-1770 R. A. Mishler Sr. Production Analyst Tenneco Oil Company September 11, 1980 See . I hereby certify that the well location 20 n on this plat was plotted from field of actual surveys made by er my supervision, and that the same Is true and correct to the best of my knowledge and belief. Date Surveyer ESP 1 11 2 26 220 860 -80 1320 1650 1000 2310 26 40 2000 1 500 1000 800

# TENNESS CIL COMPANY ROCKY MOUNTAIN DIVISION PENTHOUSE, 720 SOUTH COLORADO BOULEVARD DENVER, COLORADO 80222

## DRILLING PROCEDURE

DATE:

8/26/80

LEASE:

Florance

WELL NO.:

68-E

LOCATION:

800'FNL, 1770'FEL

FIELD:

Basin Dakota

Section 21, T27N, R8W San Juan County, N.M.

**ELEVATION:** 

6731'

TOTAL DEPTH:

74801

PROJECTED HORIZON:

Dakota

SUBMITTED BY:	G.T.   RUSSEL	DATE: 8-27-80
APPROVED BY:	Bame	DATE: 9/5/50

CC: Administration DSB Well File

Field File

## ESTEMATED FORMATION TOPS

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Fruitland	2680'	Water
Pictured Cliffs	2820'	Gas
Lewis	2900	Shale
Cliff House	4410'	Water
Har fee	4500'	Gas/Water
Point Lookout	5090'	Gas
Morecos	5400'	Shale
Gallup	6270 <b>'</b>	Water
Greenhorn	7060 <b>'</b>	
Dalota	7200'	Gas
T.D.	7480'	

## DRILLING, CASENG AND CEMENTING PROGRAM.

- 1. MIRURT
- 2. Drill a 12½" Hole to ÷ 250' with Gel-Water Mud.
- 3. RU and run 9 5/8" 36# K-55 ST&C casing to TD. Cement with Class B  $\pm$  2% CaCl $_2$  in sufficient quantity to circulate cement to surface. W0C 12 hours.
- 4. Screw on 9 5/8 8rd x 11-3000 casing head, NU BOPS. Pressure test casing, lines and blinds to 1000 PSI for 30 minutes. GIH with drill pipe and test pipe rams to 1000 PSI for 30 minutes. Record all tests on IADO Report.
- 5. Drill out using an 8 3/4" Bit and clear water. Drill to 3400'. Mud up prior to reaching intd. TD.
- 6. RU and run 7" 23: K-55 ST&C casing to bottom. Cement with 50:50 Pozmix, 4% Gel; tailed with 150 sx Class B  $\pm$  2% CaCl $_2$ . Circulate cement to surface. WOC 18 hours.
- 7. Set slips and cut-of? casing. GIH with  $6\frac{1}{6}$ " Bit and  $3\frac{1}{6}$ " drilling assembly. Pressure test to 1000 PSI for 30 minutes. Record tests on IADO Report.
- 8. RU to Gas Drill. Drill to within 5' of shoe with water, unload hole with  $N_2$ . Drill a few feet of new formation and blow with gas until dusting.
- 9. Drill a  $6\frac{1}{4}$  hole to TD with gas. Log open hole as directed by G.E. Department.
- 10. Run 4½" 11.6 and 10.50# K-55 ST&C as designed as a liner. Have 150' overlap inside the 7" casing. Cement with 50:50 Pozmix, 4% Gel; tailed by 100 sx of Class B. Use a fluid loss additive in the lead slurry and circ cement to liner top.
- 11. Circulate out excess cement, LDDP and MORT.
- 10. Install tree and fence reserve pit.

13. If non-productive, P & A as required by the USGS.

## Casing Program

Interval	Length	Size	Weight	Grade	Coupling
0-250'	250'	9 5/8	36+	K-55	Sic
0-3400'	3400'	7	23 <i>≐</i>	K-55	STC
7000-7480'	480'	4 1/2	11.6≓	K-55	STC
3250-7000 <b>'</b>	<b>3750'</b>	4 1/2	10.5#	K-55	STC

#### MUD PROGRAM

0-250

Spud mud.

250-3400

Low solid, fresh water mud. (Mater and Benex.) Mud up prior to running casing.

3400-TD

Gas.

## **EVALUATION**

Cores and DST's: None.

Deviation Surveys:

- 1. Survey surface hole at 100' intervals. Maximum allowable deviation at 500' is  $1-1/2^{\circ}$ .
- 3. From surface to total depth, deviation surveys must be taken every 500' or each trip, whethever is first. This may entail running the TOTCO on wireline. Record each survey on the IADC Drilling Report Sheet. Maximum allowable change in deviation is  $1^0$  per 100'. Maximum deviation allowable is  $5^\circ$ .

Samples: As requested by Wellsite Geological Engineer.

Logs:

1. GR/IND FDC-GR-Cal TD to MV

## BLOWOUT EQUIPMENT

 $11^{\circ}$  - 3000 BOP with rotating head to comply with TOC requirements as shown in BOE arrangement, Figure C. Preventers must be checked for operation every 24 hours with each check recorded on the IADC Drilling Report Sheet.

## REFORMS

Drilling reports for the past 24 hours will include depth, feature, the distribution, activity breakdows, and proporties, bit record, between assembly, daily and cumulative and costs, plus any other partinent information, will be called into Tenneco Oil Company, Denver, Colorade, between 7:30 a.m. and 8:00 a.m.

- 1. 303-750-7130 (Office) Don Barnes 303-758-7287 (Office) Don Barnes' private line, Monday-Friday (before 7:25 a.m.) 303-936-0704 (Home) Don Barnes, weekends and holidays.
- 2. John Owen (Home) 303-795-0221

The yellow shout of the IADS Report is to be filled out completely. The original copy of the drilling time recorder, and copies of any invoiced from this well, signed and received for Tenneco Dil Company, will be mailed daily to:

TEMMESO GIL 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.
  - 2. Mr. John W. Owen, Project Drilling Engineer.
  - 3. Mr. Mike Lacey, Division Production Manager (Home 303-979-0509).

#### TENNECO OIL COMPANY - 10 POINT PLAN

1. The geological name of the surface formation: 2 & 3. Estimated Formation Tops:

(See Attached Drilling Procedure)

4. Proposed Casing Program:

(See Attached Drilling Procedure)

- 5. Blowout Preventors: Hydraulic double ram. One set of rams will be provided 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". BOP's, drills and tests will be recorded in the driller's log. BOP will be tested every 24 hours and recorded in IADC Log.
- 6. (Sufficient quantity of mud and weight material will be available Mud Program: on location).

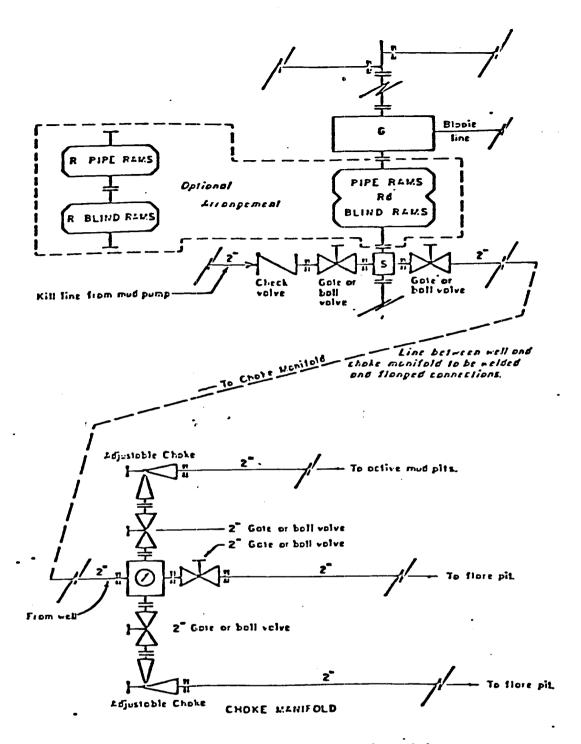
(See Attached Drilling Procedure.

- 7. Auxiliary Equipment:
  - a. Kelly cock will be in use at all times.
  - b. Stabbing valve to fit drill pipe will be present on floor at all times.
  - c. Mud monitoring will be visual. No abnormal pressures are anticipated.
  - d. Floats at bits.
  - e. Drill string safety valve(s) to fit all pipe in drill string will be maintained on the rig floor while drilling operations are in progress.
- 8. Coring, Logging, and Testing Program:

(See Attached Drilling Procedure)

- No abnormal pressures, temperatures or potential hazards such as H<sub>2</sub>S are ex-9. pected to be encountered.
- 10. The drilling of this well will start approximately ( May 1981 continue for 10 to 12 days.

Your office will be notified of spudding in sufficient time to witness cementing operations. Immediate notice will be given on blowouts, fires, spills, and accidents involving life threatening injuries or loss of life. Prior approval will be obtained before appreciably changing drilling program or commencing plugging operations, plug back work, casing repair work or corrective cementing operations.



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

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

- 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.
- 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.

- B. 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 location consists of sandy soil. Vegetation includes pinon pine and juniper, snakeweed, and other native shrubs and 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 and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

R. A. Mishler

Sr. Production Analyst

