13-3/4"

7-7/8"

SUBMIT IN TRIPLICATE*

Sufficient to circulate surface

to circulate surface

(Other instructions on reverse side)

Form approved, Budget Bureau No. 42-R1425.

TO DOUG DEEDEN				
GEOLOGICAL SURVEY				
DEPARTMENT OF THE INTERIOR				
UNITED STATES				

UNITED STATES reverse side)					30-045-23827
DEPARTMENT OF THE INTERIOR					5. LEASE DESIGNATION AND SERIAL NO.
GEOLOGICAL SURVEY					SF-080247
APPLICATION	I FOR PERMIT T	O DRILL, DEEPI	EN, OR PLUC	3 BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
1a. TYPE OF WORK DRI	LL 🗵	DEEPEN	PLUG	BACK 🗌	7. UNIT AGREEMENT NAME
b. TYPE OF WELL OIL GA	S X OTHER		INGLE MU	NE :	8. FARM OR LEASE NAME Florance
2. NAME OF OPERATOR	1				9. WELL NO.
Tenneco Oi	rr company			*	117- 5- 55
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 950' FSL, 805' FEL At proposed prod. zone					Basin Dakota — 11. sec., T., B., M., OR BLK. AND SURVEY OR AREA
14. DISTANCE IN MILES	AND DIRECTION FROM NEAR	EST TOWN OR POST OFFIC	E*		12. COUNTY OR PARISH 13. STATE
See Point	1B, Surface Use	e Plan		:	San Juan New Mexico
15. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE L (Also to nearest drig	INE, FT.		O. OF ACRES IN LEAS	TO T	of acres assigned His well E /306.35
18. DISTANCE FROM PROP TO NEAREST WELL, DO OR APPLIED FOR, ON TH	RILLING, COMPLETED,	19. P	6,680'	20. ROTA	ROTary Rotary
21. ELEVATIONS (Show who 5,731' G.:). 	22. APPROX. DATE WORK WILL START* March 1, 1980
23.		ROPOSED CASING AN	D CEMENTING PR	OGRAM &	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	1 2	QUANTITY OF CEMENT

250'

6,680'

SEE ATTACHED SHEET

36#

10/5#, 11.6#

you not dedicated

9-5/8"

4-1/2"

RECEIVED SEP 07 1979 U. S. GEOLOGICAL SURVEY FARMINGTON, N. M.

Sufficient

ë

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 Clowout preventer program, if any.

24.September 4, 1979 Division Production Manager DATE TITLE . (This space for Federal or State office use) APPROVAL DATE PERMIT NO. _ DATE APPROVED BY CONDITIONS OF APPROVAL, IF ANY: mine the of Frank

*See Instructions On Reverse Side

NMOCC

OIL CONSERVATION DIVISION

1320 1650

1980 2310

STATE OF NEW MEXICO P. O. BOX 2088 Form C-102 ENERGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501 kevised 10-1-78 All distances must be from the cuter boundaries of the Section. Operator Well No. TENNECO OIL COMPANY FLORENCE 117 Unit Letter Section Township Range County 35 29N 9W San Juan Actual Footage Location of Well: 950 805 South feet from the line and East line feet from the Ground Level Elev. Producing Formation Pool Dedicated Acreage: 5731 Basin Dakota 306.35 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? X No Yes 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 Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Désition Environmental Coordinator CONOCO Company Tenneco Oil Company TENNECO OIL CO. August 31, 1979 Sec. SF-080247 35 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.

8051

Date Surveyed

1. The geological name of the surface formation is Tertiary San Jose 2%3. Estimated Formation Tops:

Oio	1300'	Mancos	4760'
Pictured Cliffs	3040 '	Gallup	5530 '
Cliffhouse	3 745 '	Greenhorn	6295 '
Menefee	3775 '	Dakota A	6430'
Point Lookout	4335'	Total Depth	6680'

- 4. Drill a 13 3/4" hole to 300⁺. Run 9 5/8", 36#, K-55 ST&C casing to 300⁺ and circulate cement to surface using 2% CaCl₂ in cement. Drill out shoe and reduce hole to 8 3/4". Drill 8 3/4" hole to 3500⁺. Run 7", 23#, K-55 ST&C casing to 3500⁺ and circulate cement to surface. Drill out of 7" with 6 1/4" bit using gas as circulating fluid. Drill to total depth. If productive, run 4 1/2" casing. Cement in one stage and bring cement to above Mesaverde Zone. If nonproductive, P&A as per U.S.G.S. requirements.
- 5. Blowout Preventors:
 Hydraulic double ram, 10". 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. Mud Program: (Sufficient quantity of mud and weight material will be available on location.)

0-300⁺ Spud mud 300-3500⁺ Low solids fresh water mud. No WL control. 3500-T.D. Gas

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.

- 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:

No cores will be taken. Samples will be taken as directed by wellsite geological engineer. GR/FDC/CNL caliper from T.D. to base of Mesaverde. GR/SP/SN induction from T.D. to surface casing.

- 9. No abnormal pressures or temperatures are anticipated.
- 10. The drilling of this well will take approximately
- 11. Your office (telephone) 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.

1. Existing Roads

- A. Proposed Well Site Location: The proposed wellsite location was surveyed and staked by a registered land surveyor and is located 950' FSL and 805' FEL Sec. 35, T29N-R9W, San Juan County, New Mexico. (See Exhibit I area dedication plan).
- B. Planned Access Route: Plann-d acess route begins in Blanco, New Mexico. Follow blacktop southeasterly to Five Mile Crossing, cross Largo Canyon and turn southeast at fork in road and proceed on blacktop for approximately 1 mile. Turn south into wellsite location.
- C. Access Road Labelled:

Color Code: Red - Improved Surface
Blue - New Access Road

- D. Not applicable the proposed well is a development well.
- E. The proposed well is a development well. See Exhibit II for existing roads within a one mile radius.
- F. Existing Road Maintenance or Improvement Plan:
 The existing roads will require minimal maintenance.

2. Planned Access Roads

(All roads are existing roads.)

- A. Width:
 The average width of the road is twenty feet.
- B. Maximum Grades:

Maximum grades will 6%.

- C. Turnouts: There are no turnouts planned as sight distance is sufficient.
- D. Drainage Design: The road is center crowned to allow drainage. The road is flat primarily.
- E. Culverts Use Major Cuts and Fills:

No culverts or major cuts and fills will be required.

F. Surfacing Material:
Native soil has been wetted, bladed and compacted to make the road surface, which is existing.

Planned Access Roads (Cont'd) 2.

- Gates, Cattleguards, Fence Cuts: G. No gates, cattleguards or fences will be needed.
- New Roads Centerlined Flagged: Η. Existing Roads.
- 3. Location of Existing Wells

The proposed well is a development well. ExhibitIII shows existing wells within a one mile radius.

- Water Wells: Α. None
- Abandoned Wells: В. None
- С. Temporarily Abandoned Wells: None
- Disposal Wells: D. None
- Drilling Wells: See Exhibit III Ε.
- Producing Wells: See Exhibit III Shut-In Wells: None F.
- G.
- Injection Wells: None Η.
- Monitoring or Observation Wells: None. I.
- Location of Existing and/or Proposed Facilities 4.
 - Existing facilities within one mile owned or controlled Α. by Lessee/Operator:
 - Tank batteries None (1)
 - Production facilities See Exhibit III (2)
 - (3) Oil Gathering Lines -None
 - Gas Gathering Lines -(4) None
 - (5) Injection Lines -None
 - Disposal Lines -None

- В. New facilities in the event of production:
 - (1) New facilities will be within the dimensions of the drill pad.

(2) Dimensions are shown on Exhibit IV.

- Construction Materials/Methods: (3)Construction materials will be native to the site. Facilities will consist of a well pad.
- Protection of Wildlife/Livestock: (4)

Facilities will be fenced as needed to protect wildlife or lifestock.

4. Location of Existing and/or Proposed Facilities (Cont'd)

- B. New facilities in the event of production: (cont'd)
 - (5) New facilities will consist of wellhead, tank and production unit.
- Rehabilitation of Disturbed Areas:
 Following the completion of construction, those areas required for continued production will be graded to provide drainage and minimize erosion. Those areas unnecessary for use will be graded to blend with surrounding topography per BLM recommendations.

5. Location and Type of Water Supply

- A. Location and type of water supply:
 Water will be hauled from a private source.
- B. Water Transportation System: Water trucks will be used.
- C. Water wells: N/A:

6. Source of Construction Materials

- A. Materials:
 Construction materials will consist of soil native to the site. Any topsoil, if present, will be stripped and stockpiled as needed.
- B. Land Ownership;
 The planned site and access road is on federal land administered by the Bureau of Land Management.
- C. Materials Foreign to the Site: N/A.
- D. Access Roads: No additional roads will be required.

7. Methods for Handling Waste Disposal

- A. Cuttings: Cuttings will be contained in the reserve pit.
- B. Drilling Fluics: Drilling fluids will be retained in the reserve pit.
- C. Produced Fluids:
 Produced fluids, including produced water will be collected in the reserve pit. Any small amount of hydrocarbon that may be produced during testing will be retained in the reserve pit. Prior to clean up operations, the hydrocarbon material will be skimmed.

7. Methods for Handling Waste Disposal (Cont'd)

- D. Sewage: Sanitary facilities for sewage disposal will consist of at least one pit toilet, during the driller operations. The pit will be backfilled immediately following completion of the drilling operation.
- E. Garbage:
 There probably will not be much putriscible garbage to dispose of. However, it will be disposed of along with the refuse in a constructed burn pit, which will be fenced. The small amount of refuse will be burned and the pit will be covered with a minimum 36 inch cover upon completion.
- F. Clean-Up of Well Site:
 Upon the release of the drilling rig, the surface of the drilling pad will be prepared to accommodate a completion rig, if testing indicates potential productive zones. In either case, the "mouse hole" and "rat hole" will be covered to eliminate a potential hazard to livestock. The reserve pit will be fenced to prevent entry of livestock until the pit is backfilled. Reasonable clean up will be performed prior to final restcration of the site.

8. Ancillary Facilities

None required.

9. Well Site Layout

- A. See Exhibit IV
- B. Location of pits, etc. See Exhibit IV
- C. Rig orientation etc. See Exhibit IV
- D. Lining of pits:
 Pits will not be lined. They will be covered with a fine
 mesh netting, if necessary, for the protection of wildlife
 if fluids are found to be toxic.

10. Plans for Restoration of Surface

A. Reserve pit clean up:
The pit will be fenced prior to rig release and shall be
maintained until clean up. Prior to backfilling any hydrocarbon material on the pit surface will be removed. The
fluids and solids contained in the pit shall be backfilled
with soil excavated from the site and with soil adjacent to
the reserve pit. The restored surface of the reserve pit will
be contoured as needed to minimize erosion. The reserve pit
area will be seeded per BLM recommendations during the
appropriate season following final restoration of the site.

10. Plans for Restoration of Surface (Cont'd)

- B. Restoration Plans Production Developed:
 The reserve pit will be backfilled and restored as described under Item A. In addition, those disturbed areas not required for production will be graded to blend with the surrounding topography, and seeded, per BLM recommendations. The portion of the drill pad required for production and turning areas will be graded to minimize erosion and provide access to production facilities under inclement conditions. Following depletion and abandonment of the site, restoration procedures will be those under Item C. below.
- C. Restoration Plan No Production Developed:
 The reserve pit will be restored as described above. With no production developed, the entire surface disturbed by construction of the drilling pad will be restored. The site will be contoured to blend with the surrounding topography. The site will be seeded according to BLM recommendations. If the new access road is not required for other development plans, it will be obliterated and restored and seeded per BLM recommendations.
- D. Rehabilitatior Time Table:
 Upon completion of operations the intial clean up of the well site will be performed. Final restoration of the site will be performed as soon as possible according to procedural guidelines published by the USGS and BLM. Seeding of the disturbed areas which are no longer required will be performed during the appropriate season, following final restoration.

11. Other Information

- A. Surface Description: Surface description of the proposed wellsite location is located in the Largo Canyon Area. The terrain consists of sandy soil and juniper trees.
- B. Surface Use Activities:
 The surface is federally owned and managed by the BLM. The predominant surface use is mineral exploration and production.
- C. Proximity of Water, Dwellings and Historical Sites:
 - 1. Water:
 There are no reservoirs or streams in the immediate area.
 - Occupied Dwellings: There are no occupied dwellings or buildings in the area.
 - 3. Sites:
 An archeological reconnissance has been performed for this location and clearance has been granted.

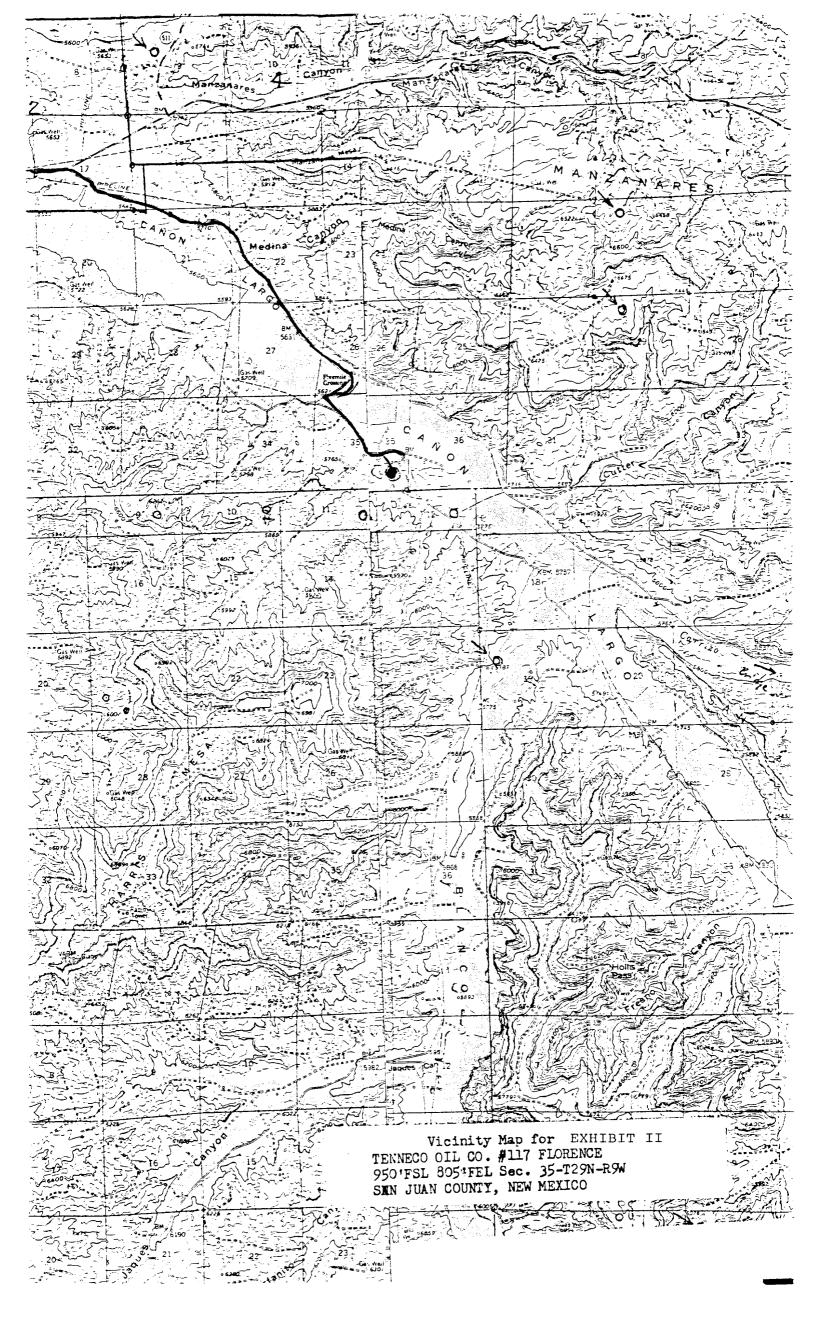
12. Operator's Field Representative

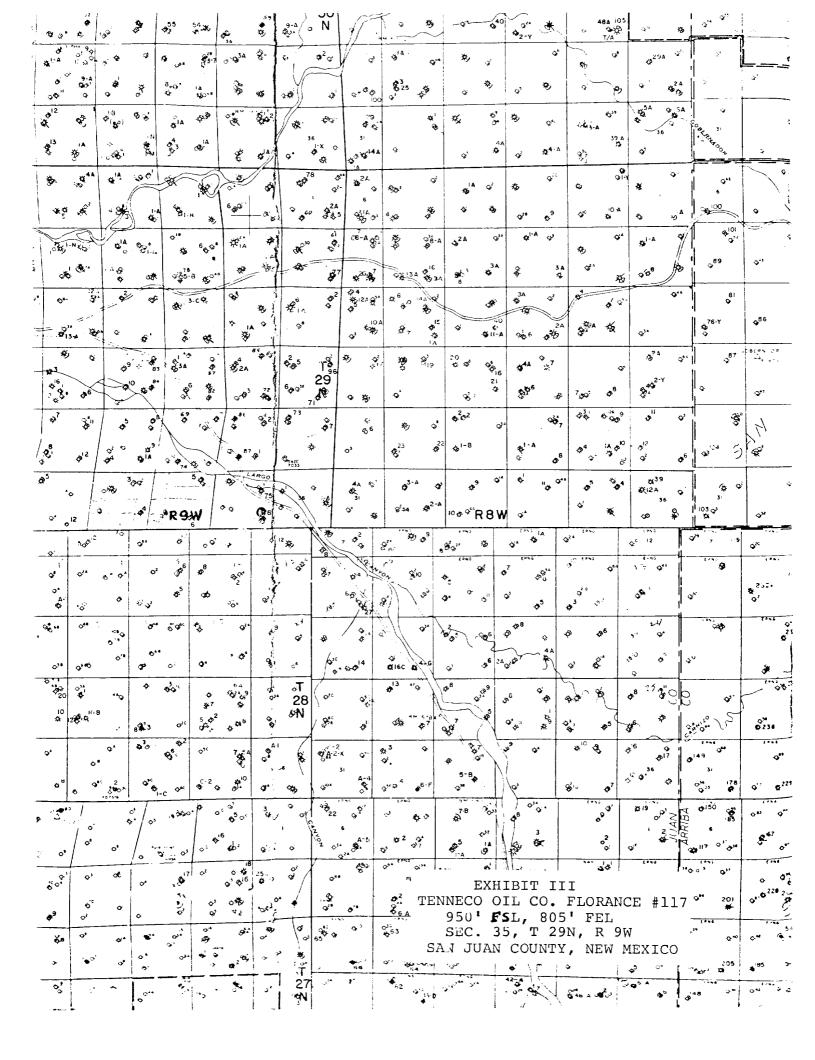
Donald S. Barnes
Division Drilling Engineer
Tenneco Oil Company
720 South Colorado Blvd.
Penthouse
Denver, CO 80222
(303) 758-7130 Ext. 212

13. 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 subcontractos will conform to this plan.

Date:	9-4-79	1 is I was		
•		J. M. Lacey		
		Division Production Manager		





TENNECO OIL COMPANY

CALCULATION SHEET

					EXHIBIT IV
SUBJECT	DRILLING	WELL SITE	LAYOUT	FLORANCE #117	
	950' FSL,	805 FEL,	SEC. 35,	T 29N, R 9W	DATE: 8-79

SAN JUAN COUNTY, NEW MEXICO

