Form approved. Budget Bureau No. 42-R1425.

USA-SF-078387-A

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

30 - 085 - 335 855 5. LEASE DESIGNATION AND REBIAL NO.

APPLICATION	FOR PERMIT T	O DRILL, D	DEEPEI	N, OR PLUG	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
a. TIPE OF WORK	LL 🛛	DEEPEN [PLUG B	_	7. UNIT AGREEMENT NAME		
b. TYPE OF WELL	_					S. FARM OR LEASE NAME		
OIL GA WELL WI	WELL WELL ES OTHER ZONE				Fletcher			
Tenneco Oil Company						9. WELL NO.		
ADDRESS OF OPERATOR	orado Blvd., De		10. FIELD AND POOL, OR WILDCAP					
LOCATION OF WELL (Re	eport location clearly and		Basin Dakota					
At surface 1170'	FSL, 1850'FEL	11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA						
At proposed prod. zon	e		Sec.29, T31N, R8W					
	AND DIRECTION FROM NEAR				12. COUNTY OR PARISH 13. STATE			
5. DISTANCE FROM PROPO	SURFACE USE PI	AN				San Juan New Mexico OF ACRES ASSIGNED THIS WELL /		
LOCATION TO NEAREST PROPERTY OR LEASE I. (Also to nearest drig	INE, FT.		то т			E 320		
IS. DISTANCE PROM PROP TO NEAREST WELL, D	OSED LOCATION* RILLING, COMPLETED,					ARY OR CABLE TOOLS		
OR APPIJED FOR, ON TH			7750 Rot			22. APPEOX. DATE WORK WILL START*		
ad Tide Table 18 and 18 <u>and 18 and 18 and</u>	<u>-</u>	6382 G.L.		·		November 15, 1979		
23.	. I	PROPOSED CASI	NG AND	CEMENTING PRO	GRAM			
SIZE OF HOLE	SIZE OF CASING 9-5/8"	weight per s	тоот	SETTING DEPTH	250SX	CLB W/2% CACL2		
13-3/4" 8-3/4"	7"	23#		3750 <u>+</u>		cient to circulate cmt to surf		
6-1/4"	4-1/2"	10.5#, 11.		7750		cient to circulate cmt		
mba maalagig	l al name of the :	<pre> See 4 Bel</pre> <pre> Bel</pre>		n is Tertiary		ner top se.		
3.Estimated For		Lullace lor				, i		
Ojo Alamo	<u>+</u> :	2020'		allup	+ 6880'	•		
Pictured Cli	_	3200'		reenhorn	+ 7493' + 7618'			
Lewis Shale		3300 ' 5065 '		akota A otal depth	± 7750'			
Cliffhouse Mancos	_	5850 ' -	1,	ocar depen		•		
with casing cement to limble between the limble will be tested and in ready for using the IADC tested to ab 0-250 Native 250-3750 Low 3750-7750 Garan Kelly combon to be stabbing the lower of the limble between the limble b	liner to 7750. ner top. entors: Hydrau ipe in the hole 2", choke reli n working order e until drillin DRilling Report ove BOE ratings solids. Suffi solids. Gel constant uipment ock will be in un toring will be at bits. cring safety val or while drillin g head will be un toring anticipate	Cement with lic, double. One set ef line will before derego peration. They shade it is a set all brill pipe visual, no live(s) to fing operation used while ted. 10's content of the conte	e ram, of bl ll be illing ns are all be osity times. will h abnor it all ns are drilli	10". One sind rams at 2" with varibelow surfacompleted. In the checked evento clean hole of the che	me using et of ra all time able cho ce casin BOPs, dry 24 hore & run floor as are are drill seen 3000 to Base	at all times (111 on a string will be maintained on to 0-3500. GR/Induction from		
	BE PROPOSED PROGRAM: If o drill or deepen direction	proposal is to denally, give pertine	epen or t	ning back give data	on present Di	roductive zone and proposed new productive and true vertical depths. Give blowout		
(This space for Fe	deral or State office use)		7)YNINC				

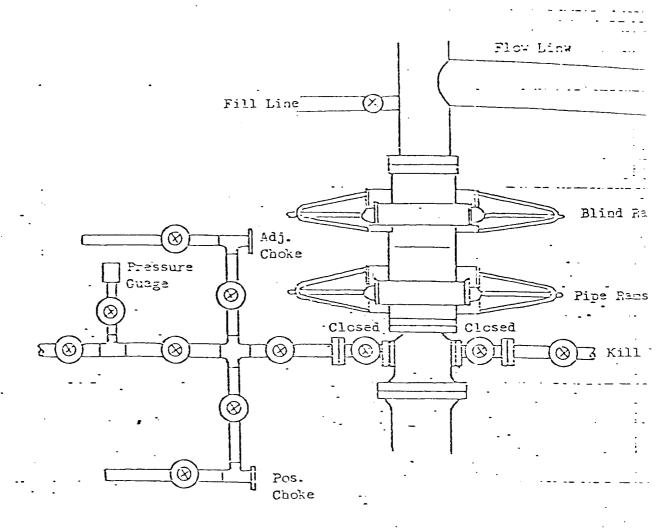
APPROVAL DATE ____

Form C-102 Supersedes C-128 Effective 1-1-65

NEW MEXICO DIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section.

Operator			Lease		Well No.				
TENNECO OIL COMPANY			FLETCHER				2		
Unit Letter	Section	Township			Ronge		County		
0	29	31%			3W	San (Juan		
Actual Footage Location of Well:									
1170	feet from t		line and	1850	fee	t from the	East	line Dedicated Acreage:	
Ground Level Elev.	1	cing Formation		Pool	Dakota			320	Acres
	0,02 24.004 24.004								
 Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 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 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-									
sion.				шиши			!	CERTIFICATION	
	+ -	Sec.		CONC	co		Position Environ Tenne April	certify that the information is true and company knowledge and believed and company knowledge and believed and company knowledge and	ordinat
			TENNECO	 	F 07838			Professional Engine	d from field e by me or at the same best of my
			- 	·	Шини	пини	Fre	The stant	
						500 0	305/		
0 330 660	90 1320	1650 1980 2310 2	640 200	0 1500	1000	500 0	1 2/2		



All valves 2"

All BCPs, flanges, spools,. valves, & lines must be series 900 or 3000 psi working press.

Choke manifold must be at ground level and extended out from under substructure.

TENTECO OIL COMPANY

REQUIRED MINIMUM BLOWOUT PREVENTOR .

TCOKUP

Denver, Colorado

Fletcher #2

1. Existing Roads

- A. Proposed Well Site Location: The proposed well site located was surveyed and staked by a registered land surveyor and is located 1170' FSL, 1850' FEL, Sec. 29, T31N, R8W, San Juan County, New Nexico. (See exhibit I Surveyors Plat).
- B. Planned Access Route: Planned access route begins in Blanco, New Mexico goes north for approx. 10-3/4 miles to junction of a dirt roa which goes to the northwest turn on this dirt road continue past and existing well location for approx. 1 mile to the new proposed well site location. (See exhibit II).
- 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:
- 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:

 Some cut will be required in crossing the deep wash in the southwest corner of the location. This dirt will be used to fill on the location.
- F. Surfacing Material:
 Native soil has been wetted, bladed and compacted to make the road surface, which is existing.

2. Planned Access Roads (Cont'd)

- G. Gates, Cattleguards, Fence Cuts: No gates, cattleguards or fences will be needed.
- Н. New Roads Centerlined Flagged: Existing Roads.

3. Location of Existing Wells

The proposed well is a development well. Exhibit IIIshows existing wells within a one mile radius.

- Α. Water Wells: None
- Abandoned Wells: None ... В.
- C. Temporarily Abandoned Wells: None
- Disposal Wells: None D.
- E. Drilling Wells: Exhibit III
- F. Producing Wells: See Exhibit III
- G. Shut-In Wells: 'None
- Н. Injection Wells: None
- I. Monitoring or Observation Wells: None.

4. Location of Existing and/or Proposed Facilities

- Α. Existing facilities within one mile owned or controlled by Lessee/Operator:
 - Tank batteries None
 - Production facilities Exhibit III
 - Oil Gathering Lines None
 - Gas Gathering Lines None
 - None
 - Injection Lines -/ Disposal Lines -/ None

- В. New facilities in the event of production:
 - (1) New facilities will be within the demensions of the drill pad.
 - (2) Demension are shown on exhibit IV.
 - (3) Construction Materials/Methods: Construction materials will be native to the site. Facilities will consist of a well pad.
 - (4) Protection of Wildlife/Livestock: Facilities will be fenced as needed to protect wildlife or livestock.

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 a wellhead, tank and production unit.
- C. 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 Fluids: 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 restoration 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. Rehabilitation 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: The surface description of the proposed well si location is relatively flat with sage brush and grasses thoughout. There is a deep wash southwest area of the location which will be bottomed out and the road will be put through it. The excess fill will be used throughout the location.
- 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.
 - 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.

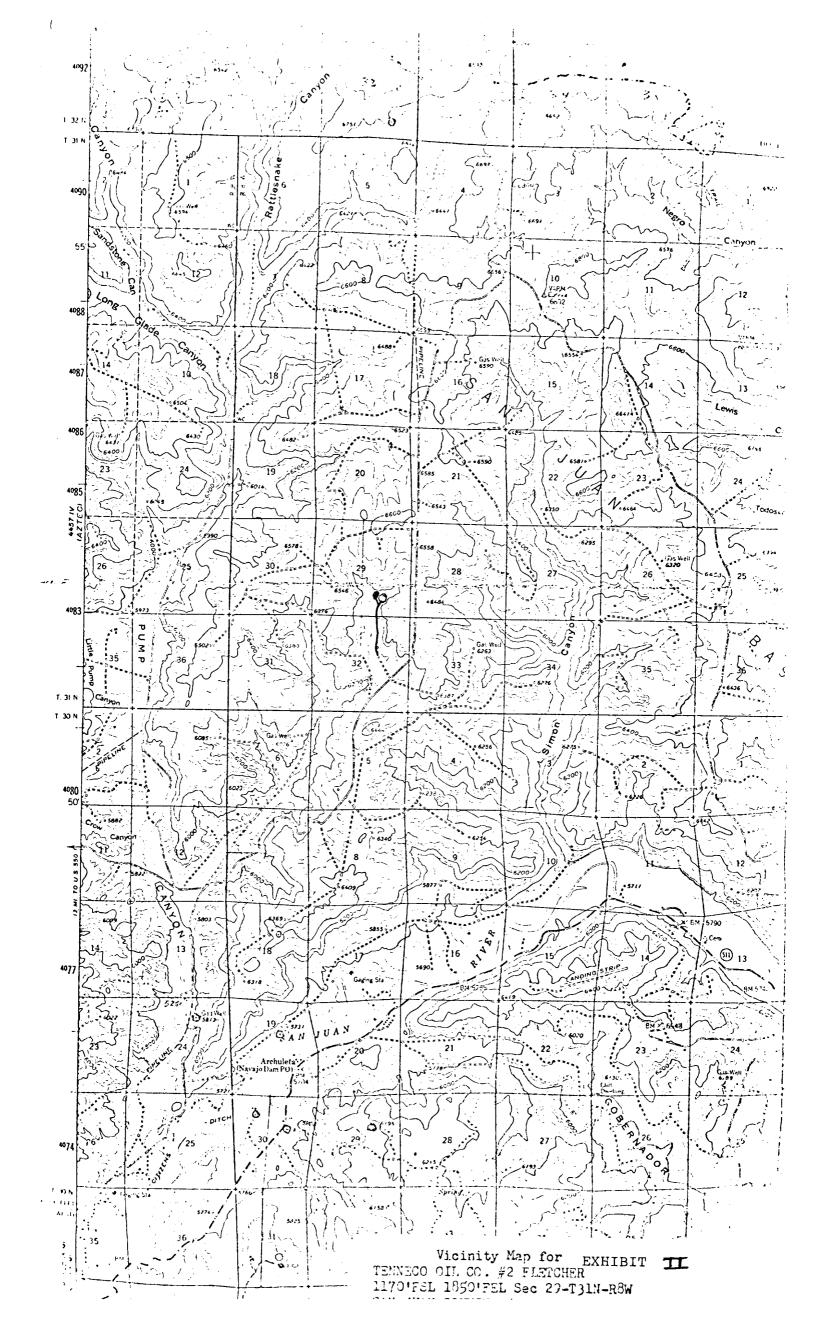
12. Operator's Field Representative

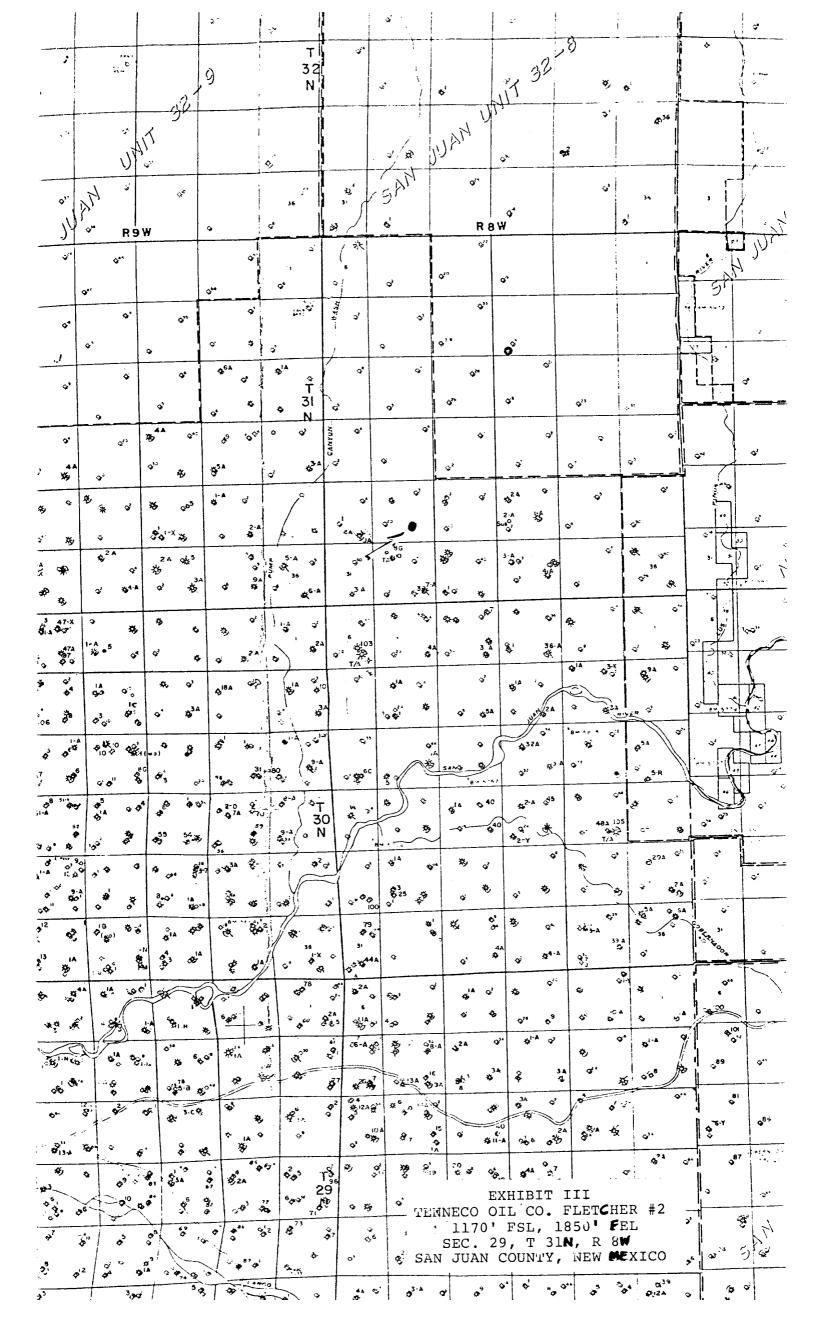
Donald S. Barnes
Division Drilling Engineer
Tenneco Oil Company
720 South Colorado Blvd.
Penthouse
Denver, CO 80222
(303) 758-7130 Ext. 212

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:	528-79	In Juny
		J. M. Lacey Division Production Manager





TENNECO OIL COMPANY

CALCULATION SHEET

