,	UN	ITED STATES	•	reverse s	side)	7: 100	4	
	DEPARTME	NT OF THE I	NTERIOR		ſ	5. LEASE DESIGNATION	4ND STELLY NO.	ذ
	GEOL	USA NM-0122005						
APPLICAT	ION FOR PERMIT	TO DRILL, D	DEEPEN, O	R PLUG I	BACK	6. IF INDIAN, ALLOTTE		
1a. TYPE OF WORK	TD		_			7 777		
b. TYPE OF WELL	DRILL X	DEEPEN [PLUG BA	CK ∐	7. UNIT AGREEMENT N	AME	
OIL	CAS X OTHER		SINGLE ZONE	MULTI:	PLE	8. FARM OR LEASE NA	ME C	
2. NAME OF OPERATO						Тарр		
Tenneco Oil	Company					9. WELL NO.		
3. ADDRESS OF OPER		60 000	200			10. FIELD AND POOL, (
1. LOCATION OF WEL	Colorado Blvd., D	nd in accordance with	ZZZ h any State requ	irements.*)		Dakota Davi	* C	
, At surface)' FSL and 850' F					11. SEC., T., R., M., OR	BLK.	
At proposed proc	d. zone					AND SURVEY OR AL		
	(unorthodox)	ocation await	ting NMOCD	approva1)	Sec. 21, T28N	-	
			C OFFICE*			12. COUNTY OR PABISH	1	
See point 1	b Surface Use P	lan	16. NO. OF ACR	PO IN I PAOP	1 17 10 0	San Juan	New Mexico	
LOCATION TO NE	AREST		TO. NO. OF ACE	PO IN LEASE		320		
18. DISTANCE FROM TO NEAREST WE OR APPLIED FOR, O		1			TARY OR CABLE TOOLS Otary			
	w whether DF, RT, GR, etc.)	<u> </u>			_!	22. APPROX. DATE WO	ORK WILL START	
5797 GL.L	·				Ab.	December 197	9	
23.		PROPOSED CASIN	IG AND CEMEI	TING PROGR	AM	· · · · · · · · · · · · · · · · · · ·		•
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	1	TING DEPTH		QUANTITY OF CEMES		
13-3/4"	9-5/8"	36#	+ 2			ient to circul		
7-7/8"	4-12"	10.5#		60 '	Suffic	ient to circul	ate to surfa	ce.
The geologic	name of the sur	face formatio	on id Tart	iary San	Jose			
&3.Estimated Fo		race rormatic	JII 13 TET C	iary Jan	0036.			
Fruitland	+ 1950	1	Dakota		+ 6510'	Possible oil	or gas prod	ucer.
Pictured Cli			T.D.	•	+ 6760'	Possible oil		
Mesaverde -					_			
Cliffhouse	<u>+</u> 3900							
Menefee	+ 3970		•					
Point Lookou								
Greenhorn Graneros	<u>+</u> 6410 + 6470							
	, K-55 new casing		circulate	cement t	n surfac	ce Run 4½" O	ID. K-55 new	
	0'with cement in							•
	culate to surface							
approved type			•			_		
	entors: Hydrauli							
	the hole. One							
	choke relief line							
drilling oner	rder before drill rations are compl	ing below Sur	drille	ny ana sn and tests	will he	mannicanneu rea e recorded in	the IANC Nri	lling
report They	shall be checke	d every 24 ho	ours. All	ria eaui	oment w	ill be tested	to above BOE	
ratings.	SHALL DE CHECKE	a 27013 27 110		. 15 6401	p.memo W	22 00000	11 22070 202	
	nud with sufficie	nt viscosity	to clean	hole and	run cas	ing. 250' T.D	. low solids	ı
	.V. 30/36 - wate							
. Auxiliary Equ	<u> ipment</u>							
a Kelly cod	k will be in use	at all times	5.					

 $\frac{A}{a}$

Stabbing valve to fit drill pipe will be present on floor at all times.

Mud monitoring will be visual, no abnormal pressures are anticipated in this area. c.

d. Floats at bits.

Drill string safety valve(s) to fit all pipe in the drill string will be maintained on the

rig floor while drilling operations are in progress. Rotating head will be used while drilling with gas.

3. No cores will be taken. GR-FDC-CNL-Caliper-T.D. to base of Mesa Verde. GR-Induction SP-SN T.D. to surface casing. (30') surface to 5600' and (10') 5600' to T.D. samples.

3. No abnormal pressures or temperatures are anticipated. See point #5 for blowout prevention.

equipment.

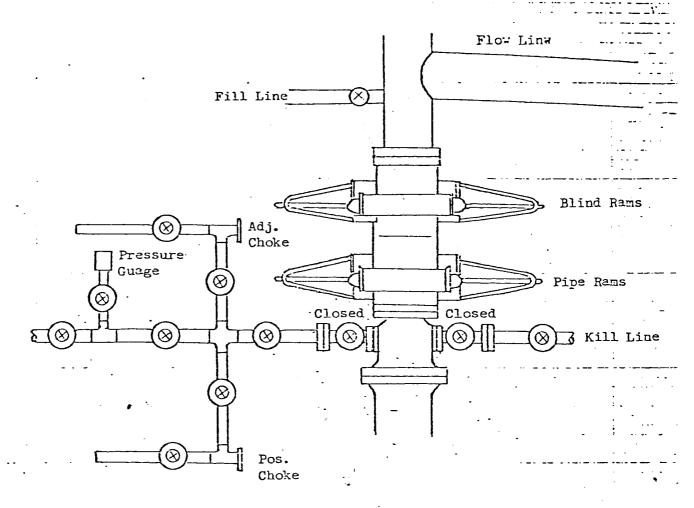
O. The drilling of this well will take approximately ten days. The gas is not yet contracted.

		a d
SIGNED	Div. Production Manage	ger DATE//-10-78
(This space for Federal or State office	e use)	

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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

•						Lease							
TENNECO OIL COMPANY					TAPP				"`	Well No.			
Unit Letter Section Township					Range County				1 *				
L	1	1 ·	28N		8w			San Juan					
Actual Footage Loca	L				1 5,4								
1410 feet from the South line and 850 feet from the West line													
Ground Level Elev. Producing Formation				Po	-					edicated Acreage:			
5797 Dakota			В	asin 1	Dakota				32	20 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 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.					-	· ·			·				
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0 330 660	3050												



All valves 2"

All BOPs, 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.

TENNECO OIL COMPANY

REQUIRED MINIMUM BLOWOUT PREVENTOR

HOOKUP

Denver, Colorado

1. Existing Roads

- A. Proposed Well Site Location:
 The proposed well site location was surveyed and staked by a registered land surveyor and is located 1410 FSL and 850 FWL Section 21, Township 28 North, Range 8 West, San Juan County New Mexico. (See Exhibit I Surveyors Plat).
- B. Planned Access Route:
 The planned access route begins at Bloomfield, New Mexico and proceeds 915 miles on Highway 17 to the junction of an improved gravel road where it turns southeasterly for 10.0 miles then northeasterly for .5 mile then .1 mile northwest to locations.
- 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 twelve feet. Newly constructed road (700') will be twelve feet.
- B. Maximum Grades:
 The maximum grades will be six percent.
- 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 will be needed. It will be necessary to rip the
 blue rock along the east side of the location to grade. A wash
 area which runs through the NW corner of the location will be
 diverted around the NW side.
- 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 III shows existing wells within a one mile radius.

- Water Wells: None. Α.
- В. Abandoned Wells: None.
- С. Temporarily Abandoned Wells: None.
- Disposal Wells: None. D.
- Drilling Wells: None. Ε.
- Producing Wells: See Exhibit III F.
- Shut-In Wells: None. G.
- Injection Wells: None. Н.
- 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: Existing producing well locations are shown in Exhibit III.
 - Tank batteries See Exhibit III. (1)
 - Production facilities See Exhibit III. (2)
 - (3)
 - Oil Gathering Lines n/a Gas Gathering Lines n/a(4)
 - Injection Lines n/a (5)
 - Disposal Lines n/a

- В.
- New facilities in the event of production:
 (1) Proposed facilities are within dimension of drill pad.
 - (2) Dimensions are shown on Exhibit III.
 - (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.

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

- B. New facilities in the event of production: (cont'd)
 - (5) 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. <u>Location and Type of Water Supply</u>

- 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, except approximately 700'.

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 Exhibiy 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)

1

- 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 topography of the area is rocky on the east side of the location and flattens out toward the west side of the location.

 Largo Canyon is immediately to the west of 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:
 - 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

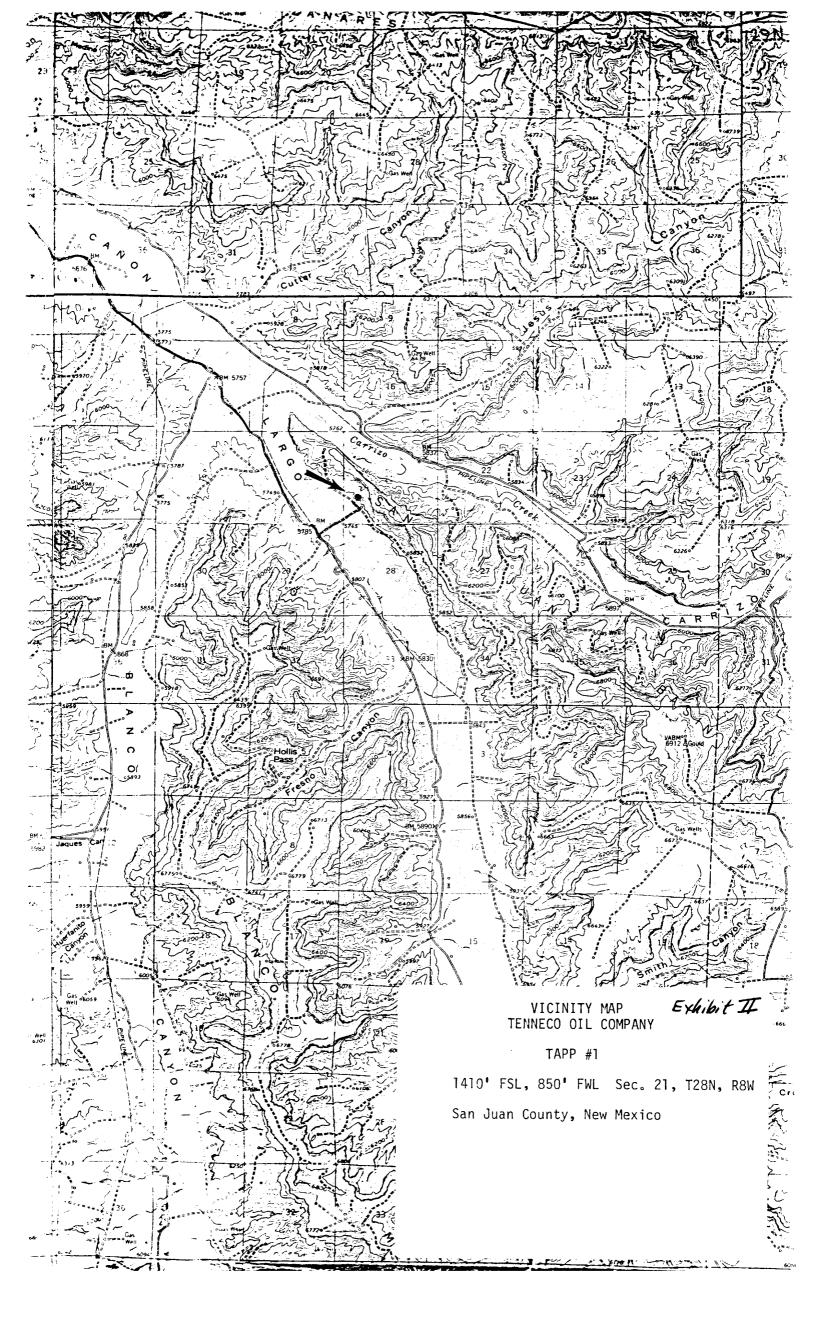
Donald S. Barnes
Division Drilling Engineer
Tenneco Oil Company
720 South Colorado Blvd.
Penthouse
Denver, CO 80222
(303) 758-7130 Ext. 212

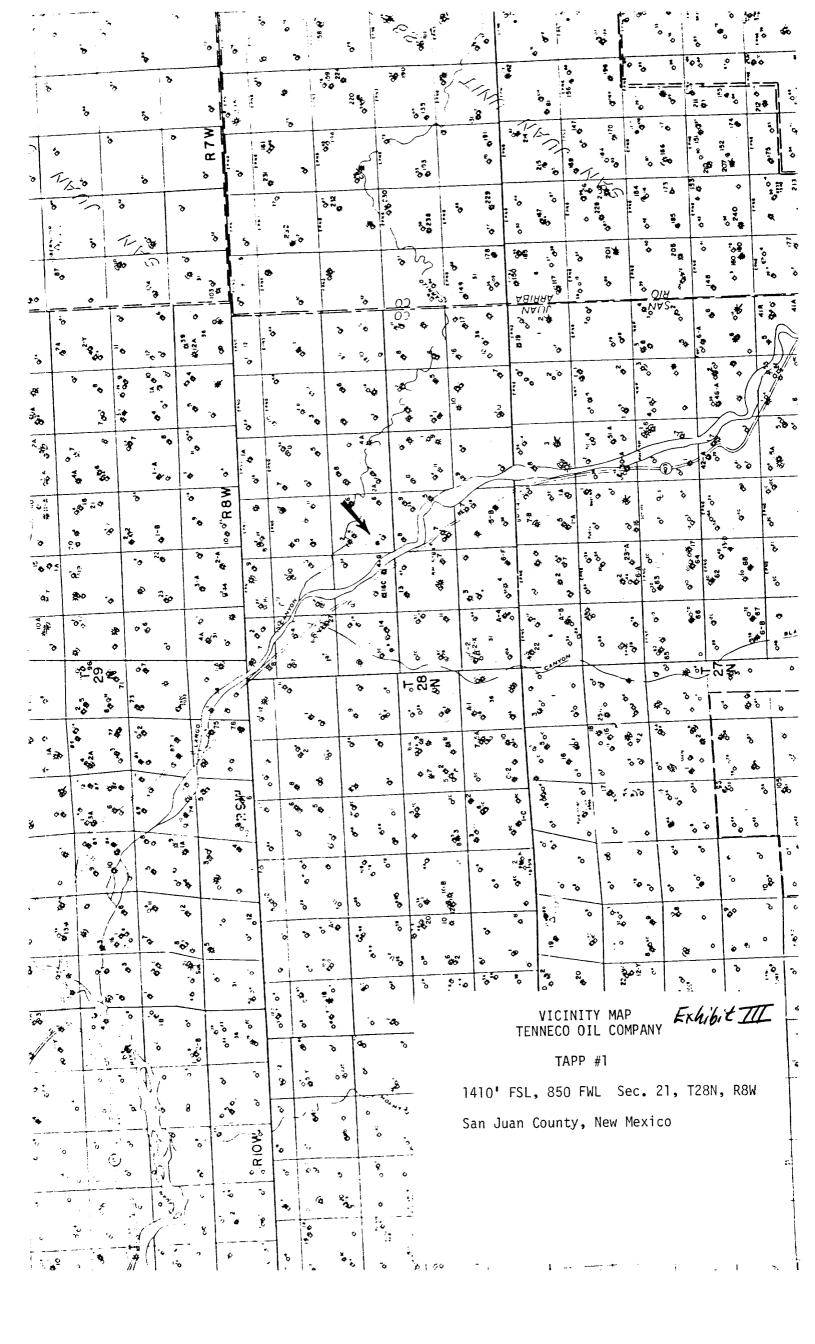
13. Certification

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: 11-10-78

Division Production Manager





TENNECO OIL COMPANY

CALCULATION SHEET

