#### SUBMIT IN TRIPLICATE.

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

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DEPARTMENT	OF	THE	INTERIC	)R

GEOLOGICAL SURVEY					SF-079936		
APPLICATION				EN, OR PLUG E	BACK	6. IF INDIAN, ALLOTTE	•
1a. TTPE OF WORK					<del></del>		
DRI b. Tipe of Well	LL 😡 ,	DEEPEN		PLUG BA	CK 📋	7. UNIT AGREEMENT 1	AME
OIL C	S CONTRE			NGLE MCLTH	·LIE	8. FARM OR LEASE NA	ME
2. NAME OF OPERATOR	SID GC WITHIN			3803 - 23 380		-	_
Tenneco Oil Company						Jones 9. WELL NO.	
. ADDRESS OF OPERATOR	4	_					
720 S. Colorado Blvd., Denver, Colorado 80222 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)						10. FIELD AND POOL, o	R WILDCAT
At surface	eport location clearly a	nd in accordance wi	th any i	State requirements.*)		Basin Dako	
,	NL, 800' FWL		_			11. SEC., T., R., M., OR AND SURVEY OR AL	BLK. REA
At proposed prod. zon	e					Sec. 35, T29N	, R8W
4. DISTANCE IN MILES A	ND DIRECTION FROM NE	AREST TOWN OR POS	T OFFIC	E *		12. COUNTY OR PARISH	
See Point 1B	, Surface Use	Plan				_	
DISTANCE FROM PROPO- LOCATION TO NEAREST			16. No	OF ACRES IN LEASE	17. NO. 6	San Juan Practice assigned	New Mexic
PROPERTY OR LEASE L (Also to nearest drig	INE, FT.				TO T	HIS WELL / 320.0	<i>7</i>
S. DISTANCE FROM PROPO TO NEAREST WELL, DR	SED LOCATION*		19. 19	OPOSED DEPTH	20. ROTA	BY OR CABLE TOOLS	
OR APPLIED FOR, ON THI			7.3	30		Rotary	
1. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)					22. APPROX. DATE WO	RK WILL START*
3.		6307 G.L.				December 1	5, 1979
		PROPOSED CASE	ICA DY	CEMENTING PROGR.	MM .		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PEE, FO	рот	SETTING DEPTH		QUANTITY OF CEMES	r
13 3/4"	9 5/8"	36#		250'	1	. to circulate	
7 7/8"	4 1/2"	10.5# - 1	1.6#	7330	Suff	. to circulate	to surface
SEE ATTACHED	zas	not des	hin	tus.		OIL COM	0 1979 1. сом. L <b>3</b>
me. If proposal is to deventer program, if any,	rill or deepen direction	proposal is to deep tally, give pertinent	data o	ing back, give data on prossibserface locations and invision Product	d measured	and true vertical and the	new productive
(This entropy for Dada-						DATE	
(This space for Federa	ir or state opnice lise)						
PERMIT NO.				APPROVAL DATE	· · · · · · · · · · · · · · · · · · ·		
APPROVED BY CONDITIONS OF APPROVE		Tir	. F		·	DATE	

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\*See Instructions On Reverse Side

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# OIL CONSERVATION DIVISION

Form C-102 Revised 10-1-78

STATE OF NEW MEXICO P. O. BOX 2088 SANTA FE, NEW MEXICO 87501 ENERGY AND MINERALS DEPARTMENT

		All distances must be	from the cuter hound	eries of the Section	n.	
Operator			Lease			Well No.
TENNECO OIL COMPANY			JONES			4
Unit Letter Secti	i	Township	Range	County		
D 35		29N	8W	San	Juan	
Actual Footage Location o	NT.		ad 800		Vest	1.
	from the NO Producing Form	rth line or	Pool	feet from the	7,630	line Dedicated Acreage:
Ground Level Elev.	Dakota	G(10))	Basin Da	kota		320 Acres
interest and ro	ne lease is d valty). e lease of dif	dedicated to the w	ell, outline each	and identify the	e ownership th	e plat below. ereof (both as to working all owners been consoli-
this form if nec No allowable w	no," list the o	d to the well until	escriptions which	have actually be	peen consolida	munitization, unitization, approved by the Commis-
					T	CERTIFICATION
800' ©	 	ec.			Name  Position Environ Company Tenneco	errify that the information con- rein is true and complete to the knowledge and belief.  Immental Coordinate Oil Company 20, 1979
	0 OIL CO. 07993 <b>8</b> 1 1			·	shown on notes of under my is true o	certify that the well location this plat was plotted from field actual surveys made by me or supervision, and that the same and correct to the best of my e and belief.
					7	20 1979 Protessional Engineer d Surveyor  Norre Jrs.

3950

1000 800

2000 1500

90 1320 1650 1960 2310 2640

330 660

1. The geological name of the surface formation is Tertiary San Jose

Ojo	1730'	Mancos	5200
Pictured Cliffs	2800'	Gallup	6135'
Cliffhouse ,	4420'	Greenhorn	6969'
Menefee	4560 <b>'</b>	Dakota A	7174
Point Lockout	500 <b>0'</b>	Total Depth	7330'

- 4. Drill a 13 3/4" hole to 300<sup>+</sup>. Run 9 5/8", 36#, K-55 ST&C casing to 300<sup>+</sup> and circulate cement to surface using 2% CaCl<sub>2</sub> in cement. Drill out shoe and reduce hole to 8 3/4". Drill 8 3/4" hole to 3500<sup>+</sup>. Run 7", 23#, K-55 ST&C casing to 3550<sup>+</sup> 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 nonproducing, 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<sup>±</sup> Spud mud. 300-3500<sup>±</sup> 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.
- 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:

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 10 days.
- 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

С.

- A. Proposed Well Site Location: The proposed wellsite location was surveyed and staked by a registered land surveyor and is located 800' FNL and 800' FWL Sec. 35, T29N-R8W, San Juan County, New Mexico. (See Exhibit I acreage dedication plan).
- B. Planned Access Route: Planned access route begins in Blanco, New Mexico and proceeds east on Highway 64 approximately 8 1/2 miles. Turn south at blacktop road and proceed for 3/4 mile and wind east for 1/4 mile. Take dirt road southeast for 2 miles; to second junction and turn south and travel for 1 mile into wellsite

location (See Exhibit II).

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:

The maximum grades will be 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.

#### 2. Planned Access Roads (Cont'd)

- Gates, Cattleguards, Fence Cuts: 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.

- Α. Water Wells: None
- В. Abandoned Wells: None
- C. Temporarily Abandoned Wells:
- Disposal Wells: D. None
- See Exhibit III Ε. Drilling Wells:
- F. Producing Wells: See Exhibit III
- Shut-In Wells: None G.
- Injection Wells: None Η.
- Ι. Monitoring or Observation Wells: None.
- 4. Location of Existing and/or Proposed Facilities
  - Existing facilities within one mile owned or controlled Α. by Lessee/Operator:
    - (1)Tank batteries -None
    - (2) (3) Production facilities - See Exhibit III
    - Oil Gathering Lines None
    - (4) Gas Gathering Lines -None
    - (5) Injection Lines -None
    - (6)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.
  - (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.

### 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.
- 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.

#### 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 scon 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 wellsite location is located 1/2 mile north of Jesus Canyon and 1 1/2 miles east of Cutter Canyon. Terrain consists of sandy soil, sagebrush and small junipers.
- 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.
  - Sites:
     An archeological reconnissance has been performed for this location and clearance has been granted.

## 12. Operator's Field Representative

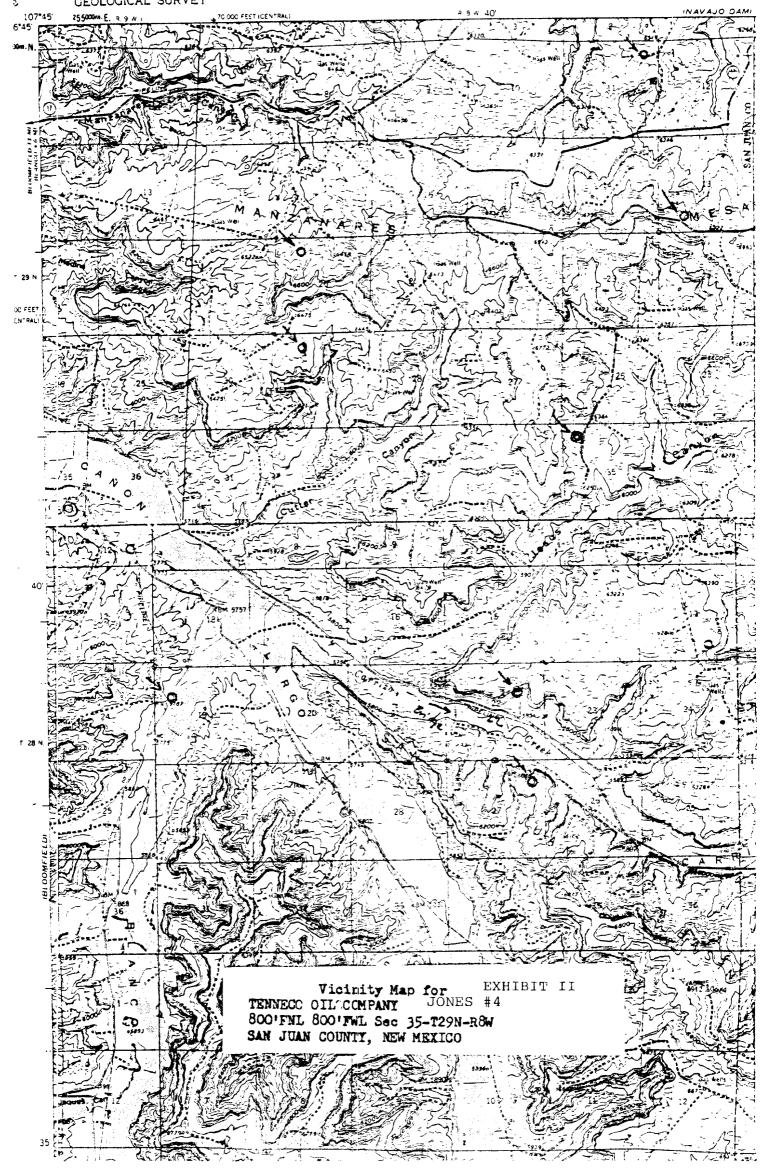
Donald S. Barnes Division Drilling Engineer Tenmeco Oil Company 720 South Colorado Blvd. Penthouse Denver, CO 80222 (303) 758-7130 Ext. 212

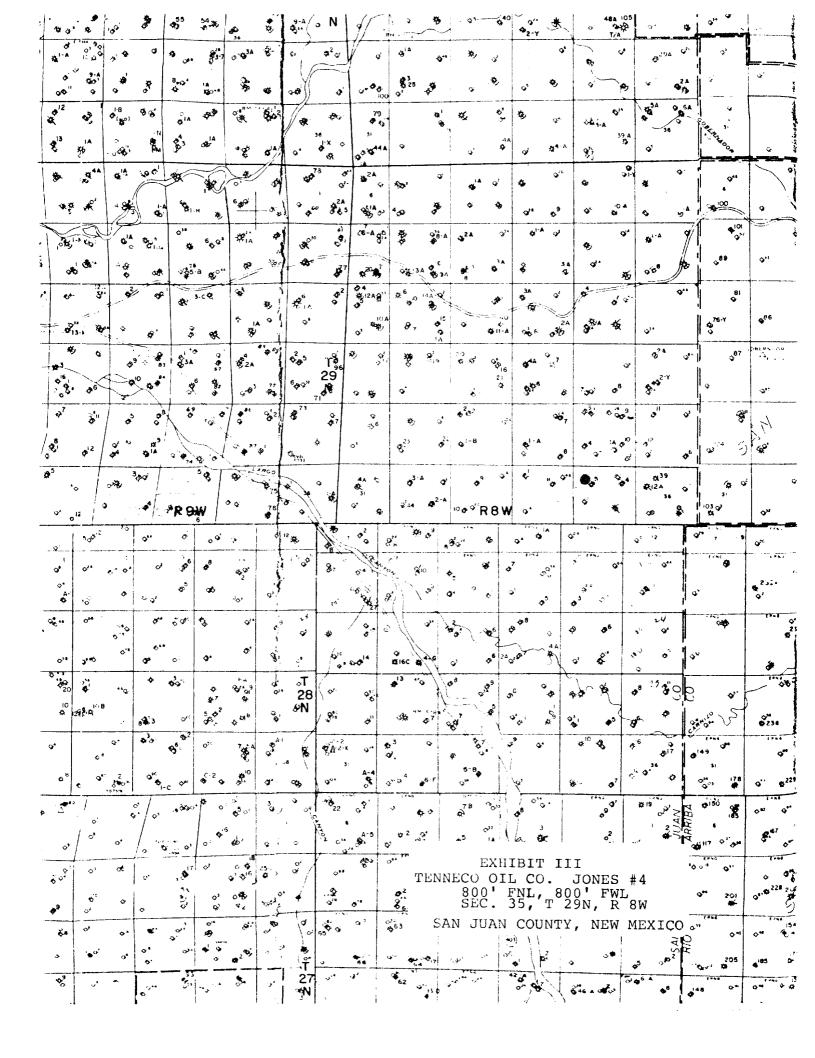
#### 13. Certification

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	12 fans
		J. M. Lacey
		Division Production Manager

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY





## TENNECO OIL COMPANY

#### CALCULATION SHEET

DRILLING WELL SITE LAYOUT JONES #4

LOCATION 800' FNL, 800' FWL, SEC. 35, T 29N, R 8W

DATE: 8-79

SAN JUAN COUNTY, NEW MEXICO

