SUBMIT IN TRIPLICATE.

Form approved. Budget Bureau No. 42-R1425.

Other	instructions	on
re	verse side)	

(1/14) 1. /	UNIT DEPARTMENT	ED STATES	ITEDI		reverse si		30	-045	-237	96
				OIL			i .	_	AND SERIAL N	₹0.
		GICAL SURVE				A C14		-078641	-A E OR TRIBE NA	M E
APPLICATION	I FOR PERMIT T	O DRILL, D	EEPE	<u>4, OR PI</u>	LUG B	ACK			-9108 -	
	LL X	DEEPEN [PLU	JG BAC	CK 🗆	I	AGREEMENT		
b. Type of Well OIL GA	S ELL X OTHER		SING		MULTIP.	re 🗌		OR LEASE NA	ME	
2. NAME OF OPERATOR	ELL X OTHER		2,014	<u> </u>	20112		- De	lhi-Tay	lor	D.
Tenneco Oil	Company			,			9. WELL	NO.		
3. ADDRESS OF OPERATOR						iv	_ I-		्राप्ती स्ट इ.स.	
720 So. Col	orado Blvd., De	enver, Color	ado 8	30222			- 1		OR WILDCAT	
4. LOCATION OF WELL (Re	port location clearly and	in accordance with	any Sta	ate requiremen	nts.*)			sin Dak		
900' FNL, 9 At proposed prod. zone						je 9164	AND	T., R., M., OR SURVEY OR A	REA - ;	,
14. DISTANCE IN MILES A	NO DIDECTION FROM NEAR	PET TOWN OF POST	OFFICE*			<u> </u>			26N-R11W	
	B, Surface Use F	_	OFFICE.				San J	7	New Me	xico
15. DISTANCE FROM PROPO	SED*	1	16. No.	OF ACRES IN	LEASE		OF ACRES A	SSIGNED	7 MC	
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18. DISTANCE FROM PROPORTO NEAREST WELL, DE	RILLING, COMPLETED,			POSED DEPTH		20. ROTA	ARY OR CABI		<u> </u>	
OR APPLIED FOR, ON THI				5,438		1 3		otary	ORK WILL STA	RT*
21. ELEVATIONS (Show whe						3 F	1	1	15, 1979	
6,272		PROPOSED CASIN	G AND	CEMENTING	PROGR	AM . o	j, sis		23, 23,3	
							<u> </u>	<u> </u>		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	OT -	SETTING D		- 3		TITY OF CEM		
12-1/4"	8-5/8"	24#	-	500	<u>-</u>	Suff.		to cir	c. to su	
<u>7-7/8"</u>	5-1/2"	15.5#, 17.	0#	6,438		See 4	<u>below</u>	1 - 1		
IN ABOVE SPACE DESCRIBE zone. If proposal is to preventer program, if an 24.	E PROPOSED PROGRAM: If drill or deepen direction: y.	ally, give pertinent	den or pl	ug back, give a subsurface lo	ocations a	nd measur	ed and true	vertical dep		wout
SIGNED	1 -m /	, / ₁ D,	ivisi	on Produ	ction	Manage	r b	ATE Sep	14, 1979	<u>}</u>
										
(This space for Fede	erai or State office use)					-	* * * * * * * * * * * * * * * * * * *			
PERMIT NO.				APPROVAL DATE	£	· · · · · ·				
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APPROVED BYCONDITIONS OF APPROV	AL, IF ANY :	TIT	LE			The state of the s	D.	ATE		
	•					P. P. Calenti				
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*See Instructions On Reverse Side

NMOCC

U. S. GEOLOGICAL SUSPEX

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

Form C-102 Revised 10-1-78

		All distances must be from	the cuter houndaries	of the Section.		
Operator			Lease			Well No.
TENNECO OIL			DELHI-TAYLOR	₽.D.		1-E <
Unit Letter	Section	Township	Rounge	County	Y -	
D Actual Footage Loc	gtion of Wells	26N	11W	J S	an Juan	
900		orth line and	900	fort for 12	West	·
Ground Level Elev.	Producing For	TAIL CALL	Pool	feet from the		line dicated Acreage:
6272	Dako	ta	Basin Dako	ta	-	320.01 Acres
 If more the interest ar If more that 	nan one lease is and royalty). an one lease of dommunitization, to		, outline each and dedicated to the wo	identify the o	ownership ther	eof (both as to working
this form i No allowat	f necessary.) ole will be assign	ed to the well until all or until a non-standard	interests have been	en consolidat	ed (by commu	d. (Use reverse side of nitization, unitization, proved by the Commis-
	1		1		c	ERTIFICATION
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000	1	E	i			ify that the information con-
900'	i	E '	!		Į.	is true and complete to the wowledge and belief.
TENNEC	A NATURAL O -078641-A 	ec.			Position Environm Company Tenneco Date Septembe I hereby cer shown on this notes of actu under my sup is true and knowledge an	nental Coordinat Oil Company er 14, 1979 tify that the well location is plat was plotted from field year surveys made by me or ervision, and that the same correct to the best of my d belief.
					Certificate No.	Kerr If.
0 330 640	00 1330 1640 100	0 2220 2040 2000		, ,	3050	3 75000

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

2&3. Estimated Formation Tops:

Ojo Alamo	636	Point Lookout	4118
Kirkland	740	Marcos	4436
Pictured Cliffs	1716	Gallup	5218
Cliffhouse	2576	Greenhorn	6101
Menefee	2671	Dakota	6264

- 4. Drill a 12½" hole to 500-. Run 8-5/8", 24#, K-55 ST&C casing to 500- and cement to surface. Use 2% CaCl in cement. Drill out shoe and reduce hole to 7-7/8". Drill 7-7/8" hole to total depth. If productive, run 5 1/2" casing to total depth. Cement in two stages (1) Top of cement above Gallup formation and (2) Top of cement above Kirkland. 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.)

0-500 spud mud 500-5500 low solids fresh water mud. No WL control. 5500-T.D. WL-8cc or less. Viscosity - 70+ required to log.

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 engieer. 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.

The gas is contracted to El Paso Natural Gas Company.

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.

SEP 1: 1979

U. S. GEOLOGICAL SURVE

1. Existing Roads

- A. Proposed Well Site Location: The proposed wellsite location was surveyed and staked by a registed land surveyor and is located 900' FNL and 900' FWL, Sec.3, T6N-R1lW, San Juan County, New Mexico. (See Exhibit I, acreage dedication plan).
- B. Planned Access Route: Planned access route begins at Carson Trading Post and proceeds 1/2 mile to fork in the road and continues northeasterly on blacktop road approximately 4 miles, turn west on dirt road and proceed 3/4 mile, turn SE into wellsite location following 3500' of newly constructed road. (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: 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.

Planned Access Roads (Cont'd)

- G. Gates, Cattleguards, Fence Cuts:
 No gates, cattleguards or fences will be needed.
- H. 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.

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

- B. 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.

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

- 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. <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.

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. 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 guide-lines 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 approximately 4-1/2 miles north of Gallegos Canyon area. Terrain consists of sandy soil, sagebrush and small 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.

- 2. 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

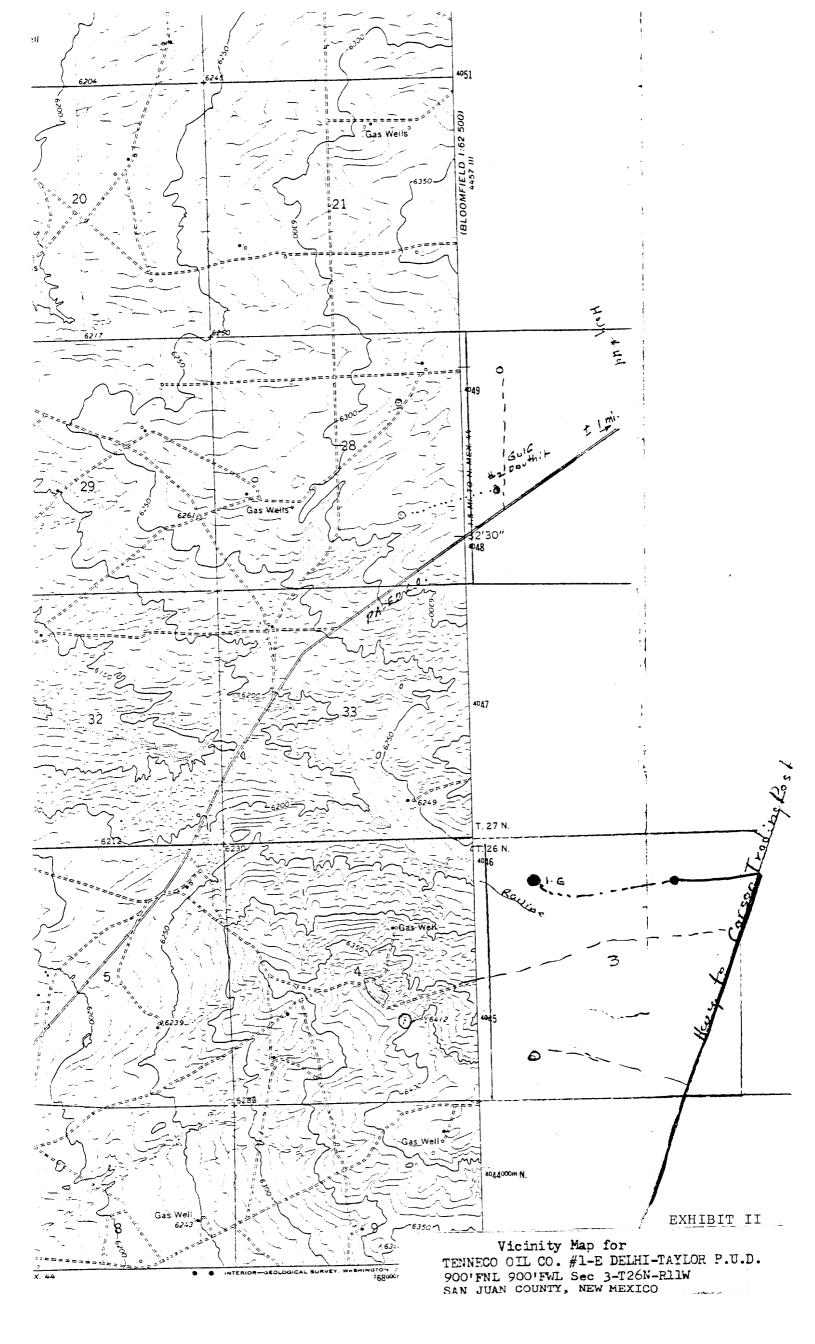
Donald S. Barnes
Division Drilling Engineer
Tenneco Oil Company
720 South Colorado Blvd.
Penthouse
Denver, CO 80222
(303) 758-7130 Ext. 212

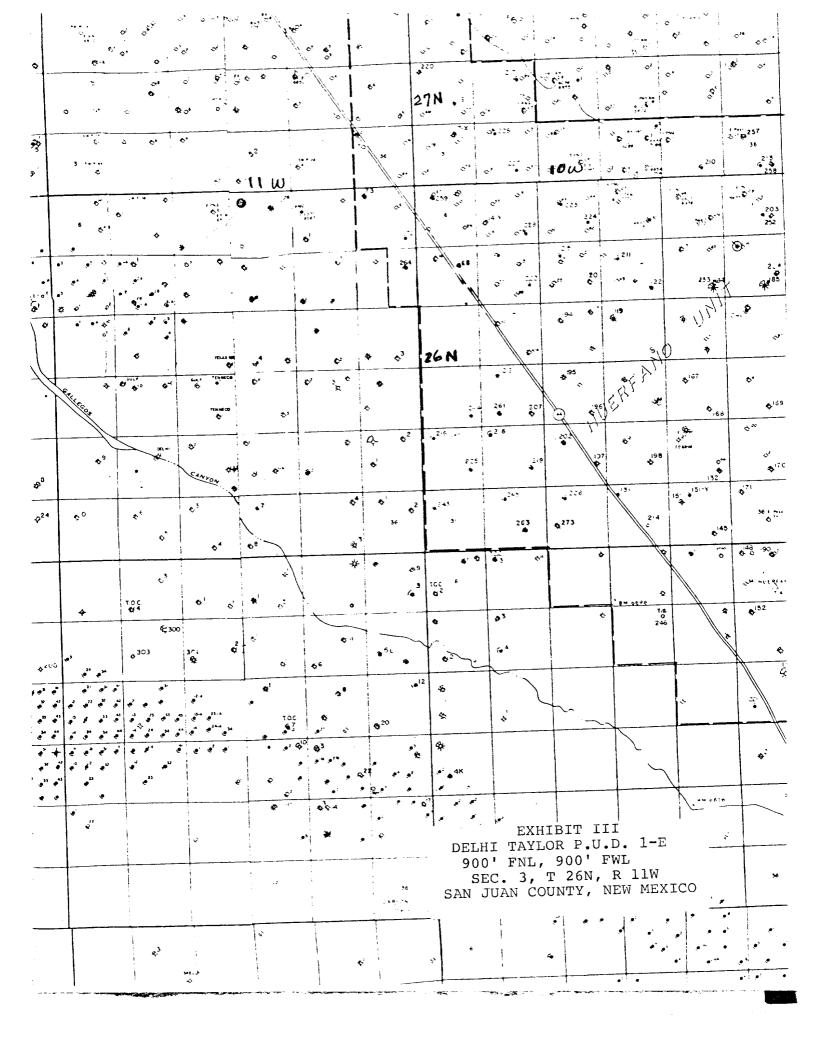
13. <u>Certification</u>

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: 9-14-79

J. M. Lacey Division Production Manager





TENNECO OIL COMPANY

CALCULATION SHEET

