J

SUBMIT IN TRIPLICATE.

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side) UNITED STATES DEPARTMENT OF THE INTERIOR

30-	045-	- 32	375	7
5. LEASE	DESIGNATI	ON AND	SERIAL.	NO.

	20 2ml / 11 1 1 1 1 1 1 2 1 1					O. PEARE DESIGNAT	TION AND BERIAL.	NO.
GEOLOGICAL SURVEY					SF-0786	41-A		
APPLICATIO	N FOR PERMIT	TO DRILL,	DEEP	EN, OR PLUG	BACK	6. IF INDIAN, ALLO	TTEE OR TRIBE NA	ME
la. TTPE OF WORK								
DR	NLL 🕅	DEEPEN		PLUG BA	CK 🗍	7. UNIT AGREEME	NT NAME	
b. TIPE OF WELL							** : 1	
OIL C	WELL X OTHER			INGLE MULTI	PLE .	8. FARM OR LEASE	NAME	
2. NAME OF OPERATOR	THE CASE OF THE RES					- Delhi-T	avlor .	E.
Tenneco (oil Company				<i>-</i>	9. WELL NO.		
3. ADDRESS OF OPERATOR						1-R	4 6 2	
		Dames 6		-4- 00000		10. PIELD AND POO	7 : 4 /	
	Colorado Blvd					1 1 () i		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface				Basin D				
1,680' FSL, 1,770' FEL				11. SEC., T., R., M.,	OR BLE.			
At proposed prod. zone				15 to 2				
• • • • • • • • • • • • • • • • • • • •						1	T26N-R11W	1
14. DISTANCE IN MILES	AND DIRECTION FROM NE	AREST TOWN OR POS	T OFFIC	B.		12. COUNTY OR PAI	RISH 13. STATE	
See Point	1B, Surface U	se Plan			:	San Juan	New Me	xico
15. DISTANCE FROM PROF			16. No	O. OF ACRES IN LEASE		OF ACRES ASSIGNED	2	
PROPERTY OR LEASE	LINE, FT.		1		TOT	HIS WELL	E/320.	32
(Also to nearest drig. unit line, if any) 18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.		19. PROPOSED DEPTH 20. RG		20. ROTA	BY OR CABLE TOOLS			
						5.5		
21. ELEVATIONS (Show W			<u> </u>	0,3/4	<u> </u>	Rotary	WORK WILL STA	
21. ELEVATIONS (Show Wi	semer Dr. KI, GR. ecc.)						,	RT-
		6,384 G.	L.			October	3 0, 1979	
23.		PROPOSED CASI	NG ANI	CEMENTING PROGR	AM g		51.1	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	oor	SETTING DEPTH	1	QUANTITY OF C	EMENT	
12-1/4"	8-5/8"	24#		500-	Suff.	cement to c	irc. to su	rface
7-7/8"	5-1/2"	15.5#, 17.	0#	6,574		below		nu differences
					- :		3 f 7 ×	
					1 1		- 197 T	
					· 1		الله الأخرابية	

SEE ATTACHED

gas is declinted



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 blowout preventer program, if any.

81GNED / M. J. M.	Division Production	Manager Sep 14, 1979
(This space for Federal or State office use)	ADDOLLAR	
APPROVED BY	APPROVAL DATE	DATE
CONDITIONS OF APPROVAL, IF ANY;		

ohsoh

*See Instructions On Reverse Side

NMOCC

STATE OF NEW MEXICO

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1980

P. O. BOX 2088 Form C-102 ENERGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501 Revised 10-1-78 All distances must be from the cuter houndaries of the Section Operator Well No. TENNECO OIL COMPANY DELHI-TAYLOR JET.E Unit Letter Section Township Ь 26N 11W San Juan Actual Footage Location of Well: feet from the South 1770 East feet from the Ground Level Elev. Producing Formation Pool Dedicated Acreage: 6384 Dakota Basin Dakota 320.32 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 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 Commis-CERTIFICATION I hereby certify that the Information contained herein is true and complete to the best of my knowledge and belief. TENNECO OIL COMPANY Position Environmental <u>Coordinat</u>br CONCO Company Tenneco Oil Company ODESSA NATURAL CORP. Date Sec. September 78641-A I hereby certify that the well location shown on this plat was platted from field notes of actual surveys made by me ar under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed 680

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and/or I

Fred

Certificat

3950

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

2%3. Estimated Formation Tops:

Ojo Alamo	764	Point Lookout	4273
Kirkland	914	Marcos	4582
Pictured Cliffs	1874	Gallup	5374
Cliffhouse	2735	Greenhorn	6240
Menefee	2831	Dakota	6358
		Total Depth	6574

4. Drill a 12-1/4" hole to 500⁺. Run 8-5/8", 24#, K-55 ST&C casing to 500⁺ and cement to surface. Use 2% CaCl₂ in cement. Drill out shoe and reduce hole to 7-7/8" and drill to total depth. If productive, run 5-1/2" casing to total depth. Cement in two stages:
(1) top of cement above Gallup 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 - 80 cc or less. Viscosity - 70+ required to log.

7. Auxiliary Equipment:

- Kelly cock will be in use at all times.
- b. Stabbing valve to fit drill pipe will be present on floor at all times.
- 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. 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.

1. Existing Roads

- A. Proposed Well Site Location: The proposed wellsite location was surveyed and staked by a registered land surveyor and is located 1680' FSL and 770' FEL, Sec. 4, T26N-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 north approximately 1/2 mile to fork in road and continues northeasterly on blacktop road approximately 4 miles. Turn west on dirt road, proceed 1½ miles, turn NW to site location on existing dirt 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: 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.

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Planned Access Roads (Cont'd) 2.

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

Location of Existing Wells 3.

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

- Water Wells: None Α.
- Abandoned Wells: В. None
- Temporarily Abandoned Wells: С. None
- Disposal Wells: None D.
- E. Drilling Wells: See Exhibit III
- Producing Wells: See Exhibit III F.
- Shut-In Wells: None 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

Production facilities -See Exhibit III

Oil Gathering Lines -None Gas Gathering Lines -None

Injection Lines -None

Disposal Lines -None

New facilities in the event of production: В.

() New facilities will be within the dimensions of the drill pad.

(2) Dimensions 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 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 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. Exhibit IV
- B. Location of pits, etc. See Exhibit IV
- C. Rig orientation etc. See Exhibit Iy
- 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: Surface description of the proposed wellsite location is located approximately 3 miles north of Gallegos Canyon Area. Terrain consists of sandy soil, sagebrush and no 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.

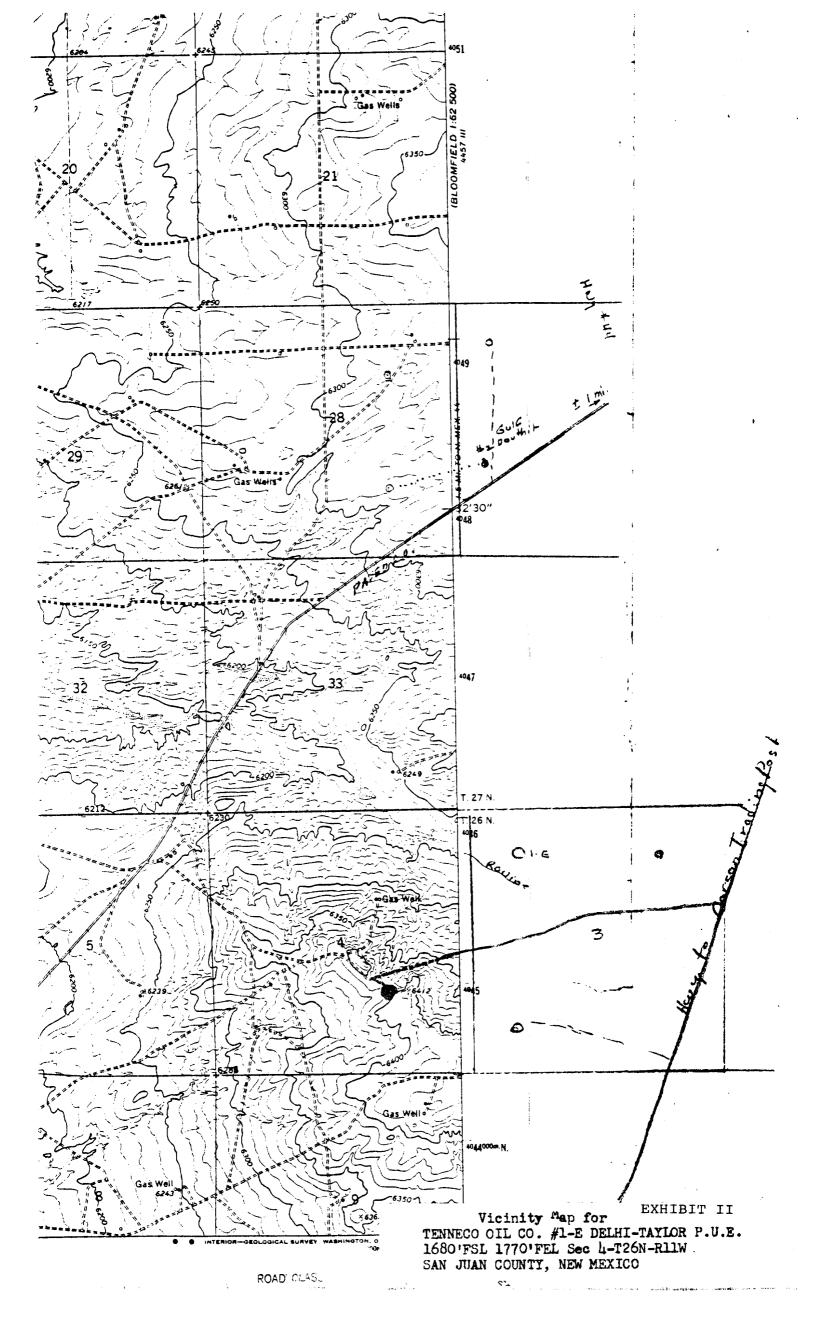
12. Operator's Field Representative

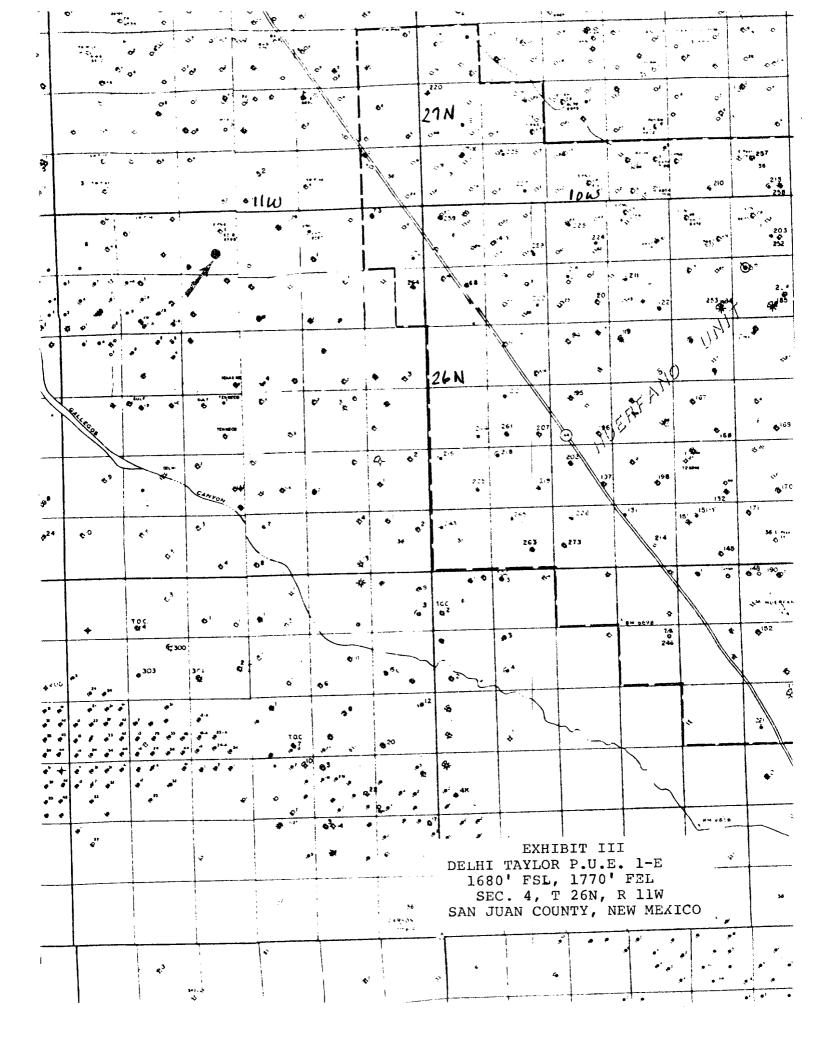
Donald S. Barnes
Division Drilling Engineer
Tenneco 011 Company
720 South Colorado Blvd.
Penthouse
Denver, CO 80222
(303) 758-7130 Ext. 212

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: <u>7-74-74</u>	and a surger
	Lacey / Manager





TENNECO OIL COMPANY

CALCULATION SHEET

