#### SUBMIT IN TRIPLICATE\*

(Other instructions on

Form approved. Budget Bureau No. 42-R1425.

(May 1963),	DEPARTMENT	ED STATES OF THE INTE	RIOR			TON AND SERIAL NO.
	GEOLO	DACK		TTEE OR THIBE NAME		
APPLICATION	FOR PERMIT	O DRILL, DEEP	EN, OR PLUG	RACK		 
a. TYPE OF WORK DRIL		DEEPEN	PLUG BA		7. CNIT AGREEMEN	NT NAME
b. TYPE OF WELL OIL GAS	ਜ਼ਿ		INGLE MULT	ILTE .	S. FARM OR LEASE	NAME
WELL WEL	L X OTHER				Delhi-T	aylor
	Company				9. WELL NO.	i just La di
Tenneco Oil Company 3. ADDRESS OF OPERATOR						DL, OR WILDCAT
720 South (	Colorado Blvd.	, Denver, Color	ado 80222		- Basin I	<u> -</u>
720 South ( 1. LOCATION OF WELL (Rep At surface	ort location clearly and	in accordance with any	State requirements.		11. SEC., T., B., M.	OR BLK.
990' FNL,	1.550' FWL			*.	AND BURVEY	DR ARTA
At proposed prod. zone	1,550 1			1 7	- Sed. 17	, 126N-R11W
14. DISTANCE IN MILES AN	DEPENDENT PROM NEA	REST TOWN OR POST OFFI	CE+		12. COUNTY OR PA	
					San Juan	New Mexico
15 DISTANCE FROM PROPUS	lB, Surface Us	16.	NO. OF ACRES IN LEASE		OF ACRES ASSIGNED.	2 . /
LOCATION TO REAREST	NE ST			10.1		w/ 320
(Also to nearest drig.	unit line, it any)	19.	19. PROPOSED DEPTH 2		RY OR CABLE TOOLS	- pd (
18. DISTANCE FROM PROPO TO NEAREST WELL, DRI OR APPLIED FOR, ON THIS			6,178		Rotary 9	
21. ELEVATIONS (Show whet				<u>ئ</u> ئ		WORK WILL START*
		6,147 G.L.			Octob	er 20,-1979
23.		PROPOSED CASING A	ND CEMENTING PROG	RAM 🛒 😲		t ĝu
	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	- T	QUANTITY OF	
12-1/4"	8-5/8"	24#	500-	Suff.	cement to	circ. to surfa
7-7/8"	5-1/2"	15.5#, 17.0#	6,178	See 4	below	<u> </u>
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IN ABOVE SPACE DESCRIBE	E PROPOSED PROGRAM: 1	f proposal is to deepen	or plug back, give data o	on present pre	oductive zone and I	roposed new productive 1 denths. Give blowout
zone. If proposal is to	drill or deepen direction	nally, give pertinent dat	a on subsurface location	as and measu	red and true rection	
preventer program, if an 24.	<i>y</i> .					
<b>.</b> .	1		ision Productio	on Manag	er DATE _	Šep 14, 1979
SIGNED		TITLE				
(This space for Fede	eral or State office use)					
			APPROVAL DATE			
PERMIT NO.			MI I BOLL WID BOLL AT SERVICE			
						a contract of the contract of

ah Frank

APPROVED BY \_\_\_\_\_\_\_\_CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

NMOCC

# OIL CONSERVATION DIVISION

## STATE OF NEW MEXICO NERGY MID MINERALS DEPARTMENT

## P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-102 kevised 10-1-18

.... the outer houndaries of the Section.

perator				Lease	rt op			Well No.
TENNECO OIL COMPANY			DELHI_TAYLOR Range County					
Jnit Letter C	17	26	N	11W		San	Juan	
Actual Footage Loc		<del></del>		3550		;	West	_
990	leet from the	Worth	line and	1550	feet	from the		line licated Acreage:
iround Level Elev.	Producing Fo	rmation		Basin Da	rot a		_	320 Acres
6147	Dakota					. h.ah.ra	marks on the n	
2. If more th interest as	nd royalty).	dedicated	to the well	, outline each e	ind ide	ntify the	ownership there	eof (both as to working
3. If more the dated by c	communitization,	unitization	, force-poolis	edicated to the ag. etc?				l owners been consoli-
this form i	is "no," list the	owners an	d tract described	iptions which l	have ac	tually be	een consolidate	d. (Use reverse side of nitization, unitization, proved by the Commis-
sion.	,							
		шшшш		1			[	ERTIFICATION
		Sec.					tained herein best of my kind the trong to the trong trong Tenneco	ify that the information con- its true and complete to the nowledge and belief.  A: Mush mental Coordina:  Oil Company er 14, 1979
	SF-079679		17	OIL COV	979	)	shown on the notes of ac- under my su	rtify that the well location is plat was plotted from field tual surveys made by me or pervision, and that the same correct to the best of my nd belief.
0 250 600	90 1320 1650		940 200	0 1500 10	00	500	Fred B.	SERIO (AND STORES TO ACHA IN.

1. The geological name of the surface formation is Tertiary San Jose 2&3. Estimated Formation Tops:

Ojo	636'	Point Lookout	4118'
Kirkland	740'	Mancos	4436'
Pictured Cliffs	1716 <b>'</b>	Gallup	5218'
Cliffhouse	2576'	Greenhorn	6101'
Menefee	2671'	Dakota	62 <b>64</b>

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% 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<sup>±</sup> Spud mud 500-5500 Low solids fresh water mud. No WL control. 5500-T.D. WL-8 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.
- 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.

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.

#### DELHI-TAYLOR #6-E

#### ٦. Existing Roads

- Proposed Well Site Location: The proposed wellsite location was surveyed & staked by a registered land surveyor and is located 990' from the north line and 1550' from the west line, Sec. 17, T26N, RllW, San Juan County, New Mexico. (See Exhibit I, Acreage Dedication Plan).
- В. Planned Access Route: Planned access route begins at Carson Trading Post and proceeds north for approximately 1/2 mile to fork in the road. Continue northwesterly on blacktop for 2 miles. Turn east into wellsite location following approximately 100' of newly constructed road. (See Exhibit 2).

Access Road Labelled:'

Color Code: Red - Improved Surface Blue - New Access Road

- D. Not applicable - the proposed well is a development well.
- Ε. The proposed well is a development well. See Exhibit PI 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.)

- Α. Width: The average width of the road is twenty feet.
- Β. The maximum grades will be 6%. Maximum Grades:
- С. 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.
- 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)

- 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. ExhibitIII shows 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: 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:
  - 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 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 erosidn. 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 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: Surface description of proposed wellsite location is located approximately 2 miles north of Gallegos Canyon. Terrain consists of sandy soil, sagebrush, flat with 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.

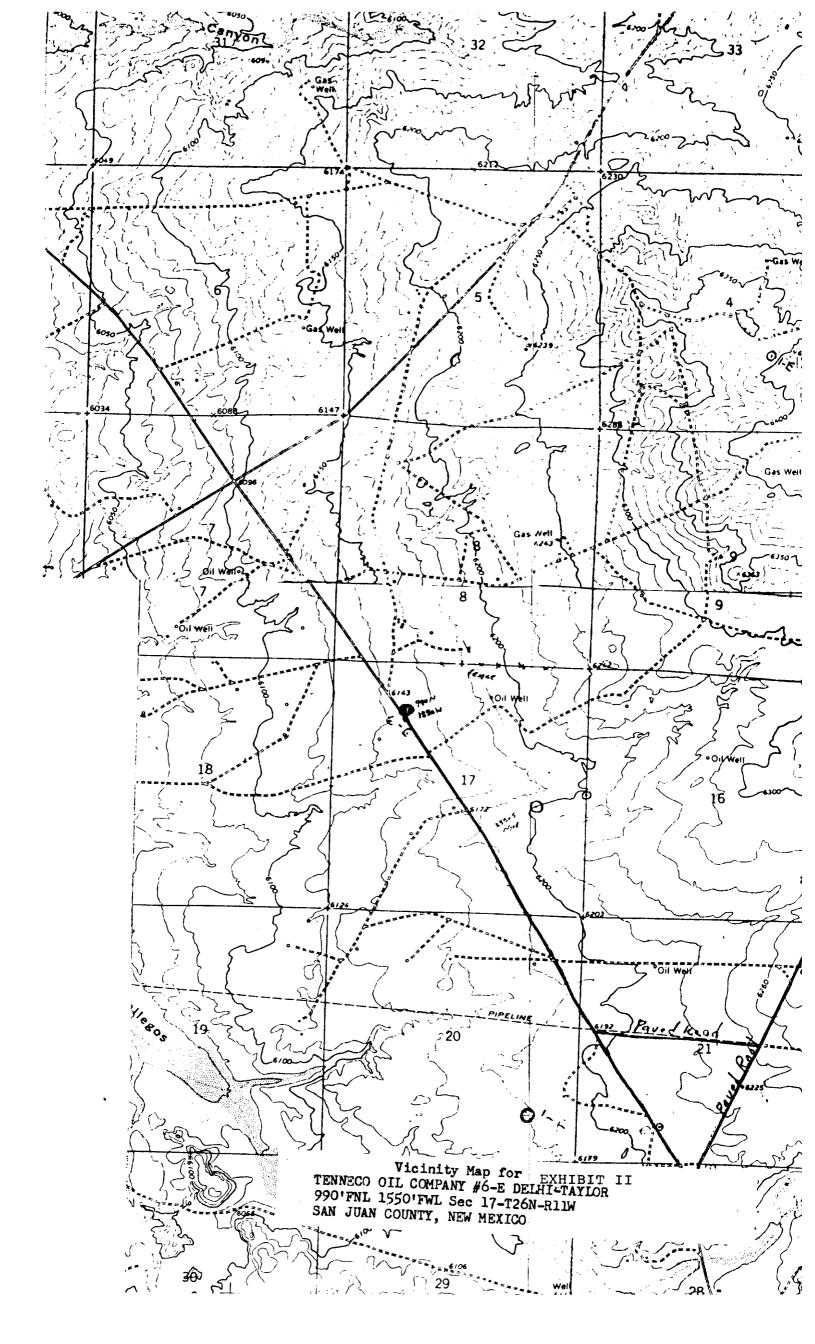
## 12. Operator's Field Representative

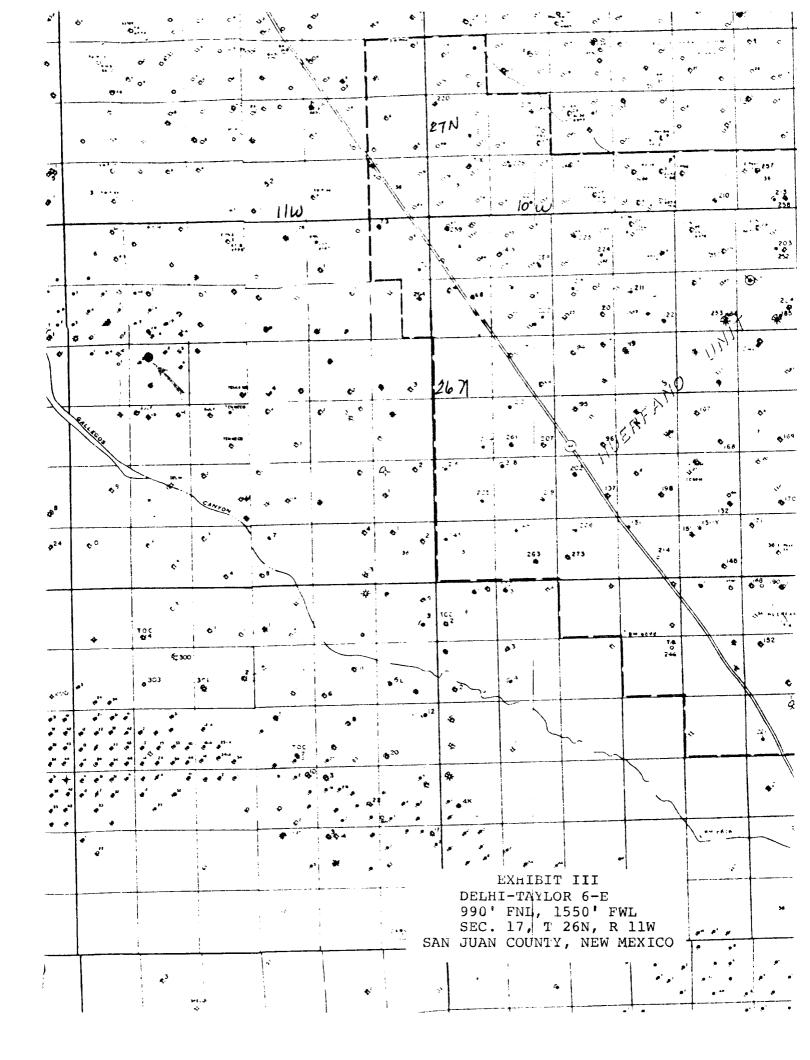
Donald S. Barnes
Division Drilling Engineer
Tenneco Oil Company
720 South Colorado Blvd.
Penthouse
Denver, CO 80222
(303) 758-7130 Ext. 212

## 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:	In I may
	J. M. Lacey Division Production Manager





### TENNECO OIL COMPANY

## CALCULATION SHEET

EXHIBIT IV

SUBJECT DRILLING WELL SITE LAYOUT DELHI-TAYLOR 6E

LOCATION 990' FNL, 1550' FWL, SEC, 17, T 26N, R 11W

DATE: 8-79

SAN JUAN COUNTY, NEW MEXICO

