SUBMIT IN TRIPLICATE.

Form approved, Budget Bureau No. 42-R1425.

(Other instructions on reverse side) 30. OF C 23825

UNITE	ED:	STATE	ES
DEPARTMENT	OF	THE	INTERIOR

GEOLOGICAL SURVEY

	020.	20010/12 201112	•		SF-078046		
APPLICATION	FOR PERMIT	TO DRILL, DE	EPEN, OR PLUG	BACK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME	
1a. TYPE OF WORK	L X	DEEPEN [DI LIC DA		7. UNIT AGREEMENT N	. ME	
b. TYPE OF WELL		DEEPEN	PLUG BA	ACK 🗀			
OIL 3A	S OTHER		SINGLE MULT ZONE ZONE	IPLE	S. FARM OR LEASE NAM	E	
2. NAME OF OPERATOR					Hughes		
Tenneco Oil Co	mpany		·		9. WELL NO.		
3. ADDRESS OF OPERATOR					6	-	
720 S. Colorad 4. LOCATION OF WELL (Re	o Blvd., Der	ver, Colorado	80222		10. FIELD AND POOL, O		
At surface	Basin Dakot						
-	FNL, 1795' F	MT		•	AND SURVEY OR AR	EA	
At proposed prod. zone					Sec. 29, T29	N - R8W ~	
14. DISTANCE IN MILES A	ND DIRECTION FROM N	EAREST TOWN OF POST	OFFICE*	 -	12. COUNTY OR PARISH 13. STATE		
See Point 1B	, Surface Use	Plan			San Juan	New Mexi	
15. DISTANCE FROM PROPOSE LOCATION TO NEAREST	ED*	1	6 NO. OF ACRES IN LEASE	17. No.	OF ACRES ASSIGNED		
PROPERTY OR LEASE LI (Also to nearest drlg.				10.1	320.0		
18. DISTANCE FROM PROPO TO NUAREST WELL, DR	SED LOCATION*	1	9 PROPOSED DEPTH	20. кот	TARY OR CABLE TOOLS		
OR APPLIED FOR, ON THIS	LEASE, FT.		7600		Rotary		
21. ELEVATIONS (Show when	her DF, RT, GR, etc.)				22. APPROX. DATE WORK WILL START*		
00		6433 G.L.		· -	December 15	, 1979	
23.		PROPOSED CASING	AND CEMENTING PROGR	RAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO	T SETTING DEPTH		QUANTITY OF CEMEN	T	
13 3/4"	9 5/8"	36#	250 '	Suff	icient to circu	late to sur	
7 7/8"	4 1/2"	10.5# 0 11.6	5‡ 7600'	Suff	icient to circu	late to sur	
SEE ATTACHED	•	gas not o	FA	RMINGTON	7 1979 AL SURVEY	Prop 1	
zone. If proposal is to d preventer program, if any 24. SIGNED	rill or deepen directi	onally, give pertinent d	or plug back, give data on late on subsurface locations Division Productions	and measure	anagerate		
PERSITI NV.			APPROVAL DATE				
APPROVED BYCONDITIONS OF APPROVA		TITLE			DATE		

oh Fred

*See Instructions On Reverse Side

NMOCC

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

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

Form C-102 Revised 10-1-78

All distances must be from the cut+r boundaries of the Section. Operator Well No. TENNECO OIL COMPANY HUGHES Range County Section Township 29 29N W3 San Juan Actual Footage Location of We.l: 9651 1795 line North feet from the line and feet from the Dedicated Acreace: Ground Level Elev. Producing Formation Pool Basin Dakota 320 Acres Dakota 6433 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? If answer is "yes" type of consolidation _ Yes 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. 17951 Environmental Coordinator Company Tenneco Oil Company August 31, 1979 Sec. CONOCIO TENNECO OIL CO. 29 I hereby certify that the well location shown on this plat was plotted from field SF-078046 notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. ngineer

2000

1980

1320

1650

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

2&3. Estimated Formation Tops:

Ojo	1920'	Gallup	6453'
Pictured Cliffs	2978 '	Greenhorn	7208' ·
Cliffhouse	4608 '	Dakota A	7403'
Point Lookout	5231 '	Total Depth	7600'
Mancos	5373 '		

4. Drill a 13 3/4" hole to 300⁺. Run 9 5/8", 36#, K-55 ST&C casing to 300⁺ and circulate cement to surface using 2% CaCl in cement. Drill out shoe and reduce hole to 8 3/4". Drill 8 3/4" hole to 3500⁺. Run 7", 23#, K-55 ST&C casing to 3500⁺ 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 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.)

0-300+	Spud	d mud.						
300-3500 ⁺	_		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

- A. Proposed Well Site Location: The proposed wellsite location was surveyed and staked by a registered land surveyor and is located 965 FNL and 1795' FWL, Sec. 29, 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 for approximately 7 3/4
 - miles. Turn southwest at junction of dirt and blacktop road. Proceed on dirt road for approximately 3 miles traveling south-westerly. Turn southeast at junction and travel 3/4 mile into well-

C. Access Road Labelled: site location.

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 prowned 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)

- G. Gates, Cattleguards, Fence Cuts: No gates, cattleguards or fences will be needed.
- H. New Roads Centerlired 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: See Exhibit III
- F. Producing Wells: See Exhibit III
- G. Shut-In Wells: Nor.e.
- H. Injection Wells: Nore,
- 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 See 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. 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.

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7. Methods for Handling Waste Disposal

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- 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.

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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 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: The surface location of the proposed well-site location is located approximately 2 1/2 miles southeast of Manzanares Canyon and 1 1/2 miles north of Cutter Canyon.

 Terrain consists of sandy soil, juniper trees and rocks.
- B. Surface Use Activities:
 The surface is federally owned and managed by the BLM. The predominant surface use is mineral exploration and production.
- C. Preximity of Water, Dwellings and Historical Sites:
 - 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. Certification

I hereby certify that I, cr 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 subcentractos will conform to this plan.

Date:	9-2-79	_ In from
		J. M. Lacey Division Production Manager



