SUBMIT IN TRIPLICATE®

(Other instructions on reverse side)

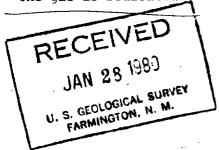
Form approved. Budget Bureau No. 42-R1425.

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UNITED STATES									
DEPARTMENT	OF	THE	INTERIO.	R					

GEOLOGICAL SURVEY							NM - 013686		
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK						6. IF INDIAN, ALLOTTEE OR TRIBE NAME			
1a. TYPE OF WORK		DEEPEN [JG BAC		7. UNIT AGREEMENT NAME		
WELL N	VELL X OTHER		BING ZONI		MULTIPLE ZONE	· 🗆	8. FARM OR LEASE NAME Pritchard		
2. NAME OF OPERATOR							9. WELL NO.		
Tenneco Oil	Company								
3. ADDRESS OF OPERATOR							5E .		
720 South Colorado Blvd., Denver, Colorado 80222							10. FIELD AND POOL, OR WILDCAT		
4. LCCATION OF WELL (Report location clearly and in accordance with any State requirements.*)							Basin Dakota		
At surface 1750' FSL, 890' FEL						11. SEC., T., R., M., OE BLK. AND SURVEY OR AREA			
At proposed prod. zone						Sec. 34 3, T31N, R9W			
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE®						12. COUNTY OR PARISH 13. STATE			
5 Miles North West of Navajo Dam P.O.						San Juan New Mexi			
15. DISTANCE FROM PROP- LOCATION TO NEARES PROPERTY OR LEASE	T LINE PT.			OF ACRES IN	LEASE		F ACRES ASSIGNED HIS WELL 316.09		
						20. ROTA	RY OR CABLE TOOLS		
TO NEAREST WELL DRILLING, COMPLETED,					Ro	tary			
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)					1	22. APPROX. DATE WORK WILL START*		
6124 GR							A.S.A.P.		
23.	F	PROPOSED CASIN	G AND	CEMENTING	PROGRAM	1			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	OT	SETTING D	EPTH	•	QUANTITY OF CEMENT		
13 3/4"	9 5/8" new.	36#, K-5	5	+ 300'	+ 300' Circulate to surface				
8 3/4"	7" new		23#, K-55 + 3600			С	Circulate to surface		
63"	4½" new	10.5#, 1	1.6#	+ 7520°		Circ	culate to liner hanger		

- If non productive plug & abandon per U.S.G.S./BLM requirements.
- No abnormal temperatures, pressures or other geologic hazards are expected 2)
- The gas is Dedicated



IN AHOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present oths. Give blowout zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and m preventer program, if any. LysteB 2 0 1980 Staff Production An BICKED (This space for Federal or State office use) PERMIT NO. APPROVED BY CONDITIONS OF APPROVAL, IF ANT: ah 5ml

*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 cuter boundaries of the Section.											
Operator				Lease					Well No.		
TENNECO O	TENNECO OIL COMPANY			PRITCHARD					5-E		
Unit Letter	Secti	on	Township		Rang		0	County			
I	34		311	<u> </u>		9W		S	an Juan		
Actual Footage Loc	ation o				0.00						
1750	leet		South	line and	890)	feet f	rom the E	ast	line	
Ground Level Elev.		Producing For	mation		Pool					Dedicated Acreage:	
6124		Dakota			Basi	n Dako	ota			316.09 Acres	
 Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 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 "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 Commission.											
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TENNECO OIL COMPANY

PROGNOSIS TO DRILL AND COMPLETE

DIVISION: Rocky Mountain DATE: September 12, 1979

LEASE:

Pritchard

WELL NO .: 5E

LOCATION:

1750' FSL, 890' FEL

FIELD:

Basin Dakota

Sec. 34, T 31N, R 9W

San Juan County, New Mexico

ESTIMATED ELEVATION:

6140'

ESTIMATED TOTAL DEPTH: 7520'

PROJECTED HORIZON:

Dakota

DRILLING, CASING AND CEMENT PROGRAM:

(1) MIRURT.

- (2) Drill a 13-3/4" hole to 300+. Run 9 5/8", 36#, K-55, ST&C casing to T.D. and cement to surface. Use 2% CaCl2 in cement.
- (3) Cut off casing and weld on casing head. Pressure test weld to 1000 psi. NUBOP's and manifold. Pressure test casing, BOP's and manifold to 1000 psi for 30 minutes.
- (4) Drill out shoe and reduce hole to 8 3/4". Drill 8 3/4" hole to 3600+. Run 7", 23#, K-55, ST&C casing to T.D. and cement to surface. (Set 7" 200-300' into Lewis shale.)
- Land casing is slips and cut off. Install drilling spool on casing head. Install (5) rotating head, manifold and flare line. Pressure test blind rams, manifold and casing to 1000 psi for 15 minutes. Pick up drilling assembly and 3 1/2" drill
- Drill out of 7" with 6 1/4" bit. Drill to within 5' fo shoe and displace water with Nitrogen. Drill 5' of formation and blow with gas until well dusts. Drill to TD.
- Log the hole dry as directed by the wellsite geological engineer and gauge the (7) natural flow from the Dakota.
- If productive, run 4 1/2" casing to T.D. as per casing design. Cement in one (8) stage. Bring cement to above Mesaverde zone.
- If nonproductive, plug and abandon as per U.S.G.S. requirements. (9)

ESTIMATED FORMATION TOPS:	Surface forma	tion San Jose		
OJO Alamo	1670' (Water) Point Look Out	51601	(Gas)
Pictured Cliffs	2930' (Gas)	Mancos	5540	
Lewis	3130' (Gas)	Gallup	•	
Cliffhouse	4720' (Gas)	Greenhorn	, 7 200'	
Menefee	4830' (Gas)	Dakota "A" T.D.	7310' 7520'	(Gas)

. DRILLING MUD PROGRAM:

0 - 300' Spud Mud.

300' - 3600' Low solids fresh water mud. Use Benex to flocculate mud as needed.
No WL control.

3600' - T.D. Gas.

CORING AND TESTING PROGRAM:

No cores or tests.

DEVIATION SURVEYS:

- 1. Survey surface hole at 100' intervals. Maximum allowable deviation at 250' is $\frac{1}{2}$ 0.
- 2. FROM SURFACE TO TOTAL DEPTH DEVIATION SURVEYS MUST BE TAKEN EVERY 500' OR EACH TRIP WHICHEVER IS FIRST. This may entail running the TOTCO on wireline. Record each survey on the AAODC Drilling Report Sheet. Maximum allowable change in deviation is 10 per 100'.

SAMPLES:

As directed by wellsite geological engineer.

WELL SURVEYS:

Majority of logs will be cased hole GR - Neutron or TDT.

A few will be open hole GR - Induction.

<u>BOP</u>:

PREVENTORS MUST BE CHECKED FOR OPERATION EVERY 24 HOURS, AND THE CHECK MUST BE RE-CORDED ON THE AAODC DRILLING REPORT SHEET.

REPORTS

Drilling reports for the past 24 hours will include depth, footage, time distribution, activity breakdown, mud properties, bit record, bottom hole assembly, daily and cumulative mud costs, plus any other pertinent information; will be called into Tenneco Oil Company, Denver, Colorado between 7:30 A.M. and 8:00 A.M.

- 303-758-7130 (office) Don Barnes
 303-758-7287 Don Barnes private line Monday-Friday (before 7:45 A.M.)
- 2. 303-936-0704 (home) Don Barnes weekends and holidays
- 3. 303-795-0221 (home) John Owen if Don Barnes not available

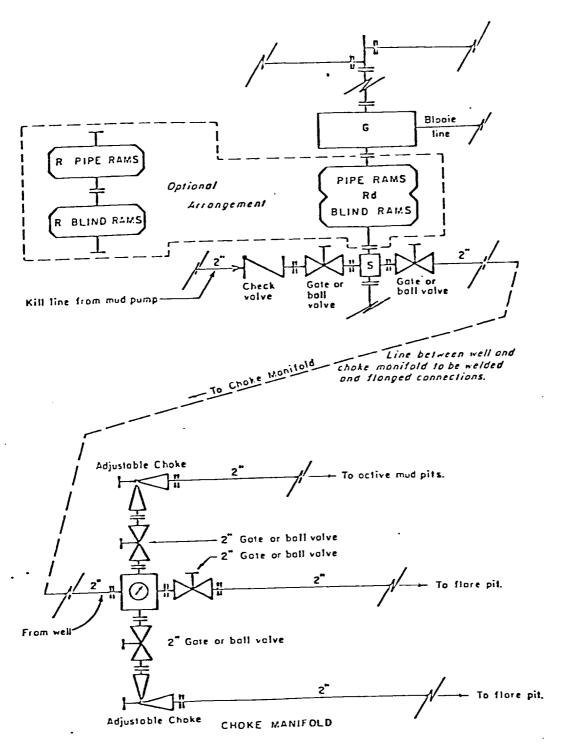
The yellow sheet of the IADC Report to be filled out completely, the original copy of the drilling time recorder, and copies of any invoices from this well signed and received for Tenneco Oil Company will be mailed daily to:

TENNECO OIL COMPANY
PENTHOUSE
720 SOUTH COLORADO BOULEVARD
DENVER, COLORADO 80222

ATTENTION: DRILLING DEPARTMENT

In case of an emergency, notify the following:

- 1. Mr. Don Barnes, Division Drilling Engineer 303-936-0704.
- 2. Mr. John Owen, Project Drilling Engineer 303-795-0221
- 3. Mr. Mike Lacey, Division Production Manager 303-979-0509.



All equipment to be 3,000 psi working pressure except as noted.

- Rd Double ram type preventer with two sets of rams.
- Single rom type preventer with one set of roms. R
- Drilling spool with side outlet connections for choke and kill lines. S
- Rotating head 150 psi working pressure minimum

ARRANGEMENT C

TENNECO OIL COMPANY ROCKY MOUNTAIN DIVISION REQUIRED MINIMUM BLOWOUT PREVENTER AN CHOKE MANIFOLD

J. MAGILL 10-26-79

- 1. Existing Road please refer to Map No. 1 which shows the existing roads. New roads which will be required have been marked on this map. All existing and new roads will be properly maintained during the duration of this project.
- 2. Planned Access Roads Please refer to Map No. 1. The grade of the access roads will be consistent with that of the local terrain. The road surface will not exceed twenty feet (20') in width. Upon completion of the project, the access road will be adequately drained to control soil erosion. Drainage facilities may include ditches, water bars, culverts or any other measure deemed necessary by trained Company personnel to insure proper drainage. Gates and/or cattleguards will be installed if necessary.
- 3. Location of Existing Wells Please refer to Map No. 2.
- 4. Location of Tank Batteries, Production Facilities, and Production Gathering and Service Lines Please refer to Maps No. 1 and No. 2. Map No. 2 shows the existing roads and new proposed access roads. All known production facilities are shown on these two maps.
- 5. Location and Type of Water Supply Water for the proposed project will be obtained from a private source.
- 6. Source of Construction Materials No additional materials will be required to build either the access road or the proposed location.
- 7. Methods of Handling Waste Materials All garbage and trash materials will be put into a burn pit shown on the attached Location Plat No. 1. When clean-up operations are begun on the proposed project, the burn pit with its refuse will be buried to a depth of at lease three feet (3'). A latrine, the location of which is also shown on Plat No. 1. will be provided for human waste. If large amounts of liquids are 1 left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying any of these materials into the watershed. No earthen pit will be located on natural drainage; all earthen pits will be so constructed as to prevent leakage from occurring.

- 8. Ancillary Facilities No camps or airstrips will be associated with this project.
- 9. Wellsite Layout Please refer to the attached Plat No. 1.
- 10. Plans for Restoration of the Surface After completion of the proposed project
 the location will be cleaned and leveled. The location will be
 left in such a condition that will enable reseeding
 operations to be carried out. Seed mixture as designated
 by the responsible government agency will be used. The
 reseeding operation will be performed during the time
 period set forth by the regulatory body. The location
 production equipment will be painted as designated by the
 responsible government agency.
- 11. Other Information The proposed site is located adjacent to an existing location in Little Pump Canjon. The drainage pattern is Northerly through many erosional gullies. The soil is sandy loom. The principal vegation types are sage, Oakbrush, salt bush, and native grasses.
- 12. Operator's Representative See drilling prognosis.
- 13. Certification -

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements mad in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Tenneco Oil Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

L. Freeman

Staff Production Analyst

TENNECO OIL COMPANY

CALCULATION SHEET

RILLING WELL SITE LAYOUT PRITCHARD SE

1750 FSL 890 FEL SEC 34, T3/N, 29W DATE 1-14-80

NO NEW ROAD CONSTRUCTION, ADJACENT TO AN EXISTING LOCATION.

Place A diversion ditch Around The South west end of The Location draining to the North East.

