SUBMIT IN TRIPLICATE.

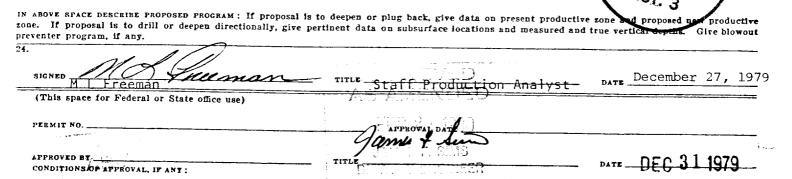
(Other instructions on reverse side)

25.

		Bureau		42-I	214:
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PARTMENT OF	THE INTERIOR	

*	DEPARTMEN	<u> </u>	22294						
			5. LEASE DESIGNATION	AND BERIAL NO.					
GEOLOGICAL SURVEY							Contract #109		
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK							6. IF INDIAN, ALLOTTE	E OR TRIBE NAME	
1a. TYPE OF WORK									
	RILL 🛛	DEEPEN		PLU	JG BA	CK 🗌	7. UNIT AGREEMENT N	MAME	
b. Type of well			611	NGLE [
WELL .	WELL OTHER		ZO		MULTIP ZONE		S. FARM OR LEASE NA	ME	
2. NAME OF OPERATOR	* *						Jicarilla "B	,11	
Tenneco Oil				·			9. WELL NO.		
3. ADDRESS OF OPERATOR			00000				1E		
720 South Co	olorado Blvd.,	Denver, Co.	80222	<u>'</u>			10. FIELD AND POOL, O	DE WILDCAT	
4. LOCATION OF WELL (I At surface	Report location clearly an	d in accordance wi	th any Si	tate requiremen	its.*)		Basin Dakota		
1690 FSL, 940) FEL						11. SEC., T., R., M., OR I AND SURVEY OR AS	BLK.	
At proposed prod. zo:	ne						AND SORVET OR AL	K.	
·							Sec. 22, T26N, R5W		
4. DISTANCE IN MILES	AND DIRECTION FROM NE.	REST TOWN OR POS	T OFFICE	•			12. COUNTY OR PARISH	13. STATE	
	h/Northeast of	Counselor,	MM				Rio Arriba	N.M.	
5. DISTANCE FROM PROP LOCATION TO NEARES	OSED*		16. NO.	OF ACRES IN	LEASE	17. NO. 0	OF ACRES ASSIGNED		
PROPERTY OR LEASE : (Also to nearest dr)			256				THIS WELL		
8. DISTANCE FROM PROP TO NEAREST WELL, E	OSED LOCATION*	·····	l ————————————————————————————————————			1	ROTARY OR CABLE TOOLS		
OR APPLIED FOR, ON TH	7650			Rotar	rv				
1. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)					Notal	22. APPROX. DATE WO	RE WILL START	
6598 GR							A.S.A.P.		
3.		PROPOSED CASIN	IG AND	CEMENTING	PROCEA	·····	1 A.J.A.I .		
		,			TROGRA				
SIZE OF ROLE	SIZE OF CASING	WEIGHT PER FO	OOT	SETTING DE	PTH		QUANTITY OF CEMENT		
12 ± ''	8 5/8" New	24# K-55		- 350'		Circu	Circulate to Surface		
7 7/8"	4 1/2" New	10.5# - 11.6		<u> </u>		Circul	irculate to surface in two		
			- 1						
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See Attach	ned								
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No abnorma	al temperatures	, pressures,	, or g	ieologic r	nazard	s are e	expected		
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*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY DURANGO, COLO,

STATE OF NEW MEXICO ERGY AND MINERALS DEPARTMENT

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

Form C-102 keylsed 10-1-78

-		All distances	must be from	n the cuter	houndertre	el the Section		
rator				Lease				Well No.
TENNECO OIL COMPANY					RILLA "B			1-E
	tion	Township		Romge	. T	County	٨ ـــــ ٤ ــ	
<u> </u>	22	26N		5	4	Klo	Arriba	<u> </u>
al Footage Location		South		940		feet from the	East	line _
1690 fee	et from the Producing For		line and	Pool		ieet from the	1100	Dedicated Acreage:
6598	Dakot				n Dakota			€ 320.00 Ac
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interest and re	oyalty).							thereof (both as to worki
dated by comm	No If a	nitization, fo	s;" type of	ig. etc?	ation			dated. (Use reverse side
this form if ne	cessary.) vill be assign	ed to the wel	l until all	interests	have been	n consolida	ted (by co	mmunitization, unitization approved by the Comm
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	1			CONTRAC	т #109			
				320.00	Acres			certify that the information c
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TENNECO OIL COMPANY ROCKY MOUNTAIN DIVISION PENTHOUSE, 720 SOUTH COLORADO BOULEYARD DENVER, COLORADO 80222

DRILLING PROGRAM

DATE: November 19, 1979

LEASE: Jicarilla B

WELL NO .: 1-E

1690' FSL, 940' FEL LOCATION:

Sec. 22, T 26N, R 5W

Rio Arriba County, New Mexico

FIELD: Jicarilla Dakota

ELEVATION: 6640' Est. G.L.

TOTAL DEPTH: 7650'

PROJECTED HORIZON: Dakota

APPROVED BY: John W. Chian

DK/ms

1st Rev.

ESTIMATED FORMATION TOPS

0J0	2730	(Water)
Pictured Cliffs	3100	(Gas)
Cliffhouse	4810	(Gas)
Menefee	4850	(Gas)
Point Lookout	5280	(Gas)
Gallup	6320	(Gas/0il)
Greenhorn	7180	
Dakota	7260	(Gas)

Surface Formation: San Jose

No abnormal temperatures or pressures are expected.

DRILLING, CASING, AND CEMENT PROGRAM

- 1. Move in, rig up rotary tools.
- 2. Drill a 12 1/4" hole to + 350'.
- 3. Run 8 5/8", 24#/ft, K-55, ST&C casing to T.D.
- 4. Cement with Class "B" cement with 2% CaCl2. Circulate cement to surface.
- 5. Wait on cement a minimum of twelve hours. Nipple up blowout preventer and manifold with relief lines. Pressure test to 600 psi for 30 minutes. Test pipe and blind rams.
- 6. Drill a 7 7/8" hole to T.D.
- 7. Run open hole logs.
- 8. Run 4 1/2" casing to T.D. as per casing design.
- 9. Cement in two stages with sufficient volume to circulate cement to surface. Locate DV tool above Cliffhouse to prevent lost returns in Mesa Verde. Lead in first stage with light cement (pozmix, Halliburton lite, etc.). Tail in with sufficient volume of Class "B" cement to cover the Dakota. Circulate a minimum of four hours between stages. Lead in second stage with light cement Tail in with 50 sacks Class "B" neat.
- 10. Set slips, cut casing, and install well head.
- 11. MORT.
- 12. If well is non-productive, plug and abandon as per regulatory agency specifications.

CASING PROGRAM

Surface: 350' of 8 5/8", 24#, K-55, ST&C casing.

Production: 4 1/2", 10.5=, K-55, ST&C casing to 7,000'.

4 1/2", 11.6#, K-55, ST&C casing below 7,000'.

MUD PROGRAM

O-350 Native solids. Have sufficient viscosity to gel chemical to clean hole and run casing.

350-T.D. Low solids. Gel chemical. 32 viscosity and 10-15 water loss down through the Mancos. Before reaching Gallup, add 6% LCM and run viscosity at 38-40 seconds. After penetrating Gallup, let LCM drop.

EVALUATION

Cores and DST's: No cores or DST's are anticipated.

Deviation Surveys:

- 1. Survey surface hole every 100° . Maximum allowable deviation at surface T.D. is 10° .
- 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 IADC Drilling Report Sheet. Maximum allowable total deviation change is 5° .

Samples:

No samples required.

Logs:

GR/Induction
Densilog
Repeat formation tester possible in Gallup.

BLOWOUT EQUIPMENT

10" 900-series, double ram hydraulic operated with closing unit and 40 gallon accumulator.

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.

- 1. 303-758-7130 (office) Don Barnes. 303-758-7287 (office) 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 is not available.

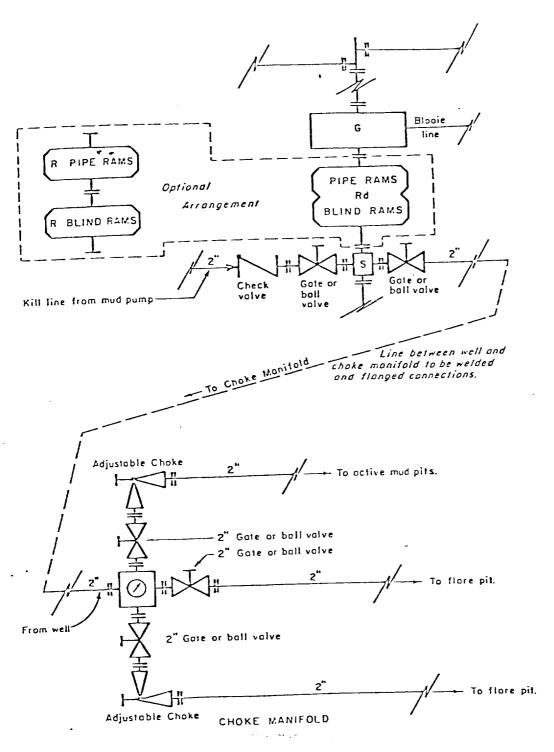
The yellow sheet of the IADC Report to be filled out completely, the original copy of the drilling time recorder, and copies of any invoices from this well, signed and received for Tenneco Oil Company will be mailed daily to:

TENNECO OIL COMPANY
ROCKY MOUNTAIN DIVISION
PENTHOUSE, 720 SOUTH COLORADO BOULEVARD
DENVER, COLORADO 80222

ATTENTION: Drilling Department

In case of 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.

Double ram type preventer with two sets of rams. Rd

- Single ram type preventer with one set of rams.
- Drilling spool with side outlet connections for choke and kill lines.
- Rotating head 150 psi working pressure minimum G

ARRANGEMENT C

TENNECO OIL COMPANY ROCKY MOUNTAIN DIVISION

REQUIRED MINIMUM BLOWOUT PREVENTER AN CHOKE MANIFOLD

J. MAGILL 10-26-79

EVI

- 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 J 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 on the Jicarilla Indian

 Reservation with the minerals belonging to the same. The soil is

 sandy loam supporting primarily pinon, juniper and native grasses.
- 12. Operator's Representative -

SEE DRILLING PROGNOSIS

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 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

LF/gh

