CONDITIONS OF APPROVAL, IF ANY :

SUBMIT IN TRIPLICATE.

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY						3. LEASE DESIGNATION AND SERIAL NO.		
						09-000110 6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 18. TYPE OF WORK								
DRILL A DEEPEN PLUG BACK						7. UNIT AGREEMENT NAME		
b. TYPE OF WELL						1		
OIL GAS SINGLE MULTIPLE ZONE ZONE						8. FARM OR LEASE NAME		
2. NAME OF OPERATOR Tenneco Oil Company						Jicarilla "A"		
3. ADDRESS OF OPERATOR								
720 So. Colorado Blvd., Denver, Colorado 80222							OOL, OR WILDCAT	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface 1850' FSL and 1720' FEL						.	o Gallup	
						11. SEC., T., R., M AND SURVEY		
At proposed prod. zone							OR AREA	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*						Sec. 18	, T26N, R5N	
See Point 1:b of Surface Use Plan						i	ARISH 13. STATE	
15. DISTANCE FROM PROPOSED*				O. OF ACRES IN LEASE	17. NO.	Rio Arriba	1	
LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.				320		TO THIS WELL E/320		
(Also to nearest drlg. unit line, if any) 18. DISTANCE FROM PROPOSED LOCATION*				19. PROPOSED DEPTH		20. ROTARY OR CABLE TOOLS		
TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.				±6,865'		Rotary		
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6.609' GL						May 1, 1978		
23.	P	ROPOSED CASI	NG AN	D CEMENTING PROGRA		1		
12-1/4"	8-5/8"	24 lb.		±250'	Suff. to circ, back to surface			
7-7/8"	4-1/2"	10.5 lb.		±6,865'			o surface csq	
							34,1433	
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See attached sheet for drilling program.								
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	PROPOSED PROGRAM: If p							
24.	·	· · · · · · · · · · · · · · · · · · ·						
SIGNED	- 12.	1	[) <mark>iv. General M</mark> an	nager	name Mai	rch 30, 1978	
	al or State office use)					DATE		
	,							
PERMIT NO.				APPROVAL DATE				
APPROVED BY		тіл	TLE		_	DATE		

DATE ___

Jicarilla A No. 10

1. The geologic name of this surface formation is San Jose Eocene...

2. Formation Tops (estimated):

Possible Oil or Gas Producer Possible Oil or Gas Producer

3. Water, Oil, Gas or Minerals:

± 2750^h Fruitland + 3135 + 3230 + 4035 + 4840 + 4950 + 5290 - 5505 Pictured Cliffs Lewis Shale Chacra Cliffhouse Menefee 52901 Point Lookout **∓**. 5505 \ Mancos Shale 6405 Gallup Ŧ 6910^h Sunostee TD= 6940 \

4. Run 8-5/8" OD, K-55 new casing to ±250' and circulate cement to surface. Run 4-1/2" OD, 10.5#, K-55 new casing to TD and cement in three stages with 65/35 pos. mix with 12-1/2 lb/sack gilsonite, tailing in with Class B cement with 2% CaCl₂. Circulate 4 hours between stages. Casinghead will be a 10" 900 series w/a 3000 psi. rating.

- 5. Blowout preventors: Hydraulic, double ram, 10". One set of rams will be provided for 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" with variable choke. BOP's will be installed, tested and in working order before drilling below surface casing and shall be maintained ready for use until drilling operations are completed. BOE will be checked every 24 hours and recorded in drillers logs.
- 6. We will use: spud mud from 9 +250'; Gel chemical w/low solids as needed to maintain good hole conditions from 250' TD. Quantities of mud will vary with conditions encountered.

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 in this area.
- 8. An AOF test will be taken at the completion of this well. No cores will be taken. Gamma Ray Density and Compensated Neutron logs will be run. Any other evaluation that may be necessary during the drilling of this well will be conducted as needed. Deviation surveys will be taken.
- No abnormal pressures or temperatures are anticipated. See point #5 for blowout prevention equipment.
- 10. The drilling of this well will take approximately fifteen days. The gas is contracted to Northwest Pipeline Company. See item 22 on 9-331-C for anticipated starting date.
- 11. Your office (Telephone 303/247-5144) 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.