(This space for Federal or State office use)

PERMIT NO. _

APPROVED BY

SUBMIT IN TRIPLICATE.

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

30-045-2468 LEASE DESIGNATION AND SERIAL NO

DATE ____

DATE ___

DELAKTIMENT OF THE INVENTOR				SF 078487		
GEOLOGICAL SURVEY				6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
APPLICATION	I FOR PERMIT T	O DRILL, DEEPE	N, OR PLUG B	ACK_	6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
	LL X	DEEPEN 🗆	PLUG BAG	CK 🗆	7. UNIT AGREEMENT NAME	
b. TYPE OF WELL	S X OTHER	811 20	NGLE X MULTIP	LE	S. FARM OR LEASE NAME	
2. NAME OF OPERATOR	<u> </u>	<u> </u>	·		Pritchard	
Tenneco Oi	1 Company				9. WELL NO.	
3. ADDRESS OF OPERATOR					8-	
P.O. Box 3	3249, Englewood,	Colorado 80155			10. FIELD AND POOL, OR WILDCAT	
4. LOCATION OF WELL (Re	eport location clearly and	in accordance with any S	tate requirements.")		Dakota 11. sec., T., B., M., OR BLK.	
0 800'	FSL, 800' FEL				AND SURVEY OR AREA	
At proposed prod. zon	_				Sec. 4, T29N, R8W	
	as above	EST TOWN OR POST OFFICE	•		12. COUNTY OR PARISH 13. STATE	
					San Juan N.M.	
Approximat	tely 9 miles Eas	16. No	OF ACRES IN LEASE		OF ACRES ASSIGNED	
LOCATION TO NEAREST PROPERTY OF LEASE L	r ·	800	809.84		HIS WELL ≤/320	
(Also to nearest drig 18. DISTANCE FROM PROP	g. unit line, if any)				TARY OR CABLE TOOLS	
TO NEAREST WELL, D	RILLING, COMPLETED,		±7570' Rotary		tary	
OR APPLIED FOR, ON THIS LEASE, FT. 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6322 GR					22. APPROX. DATE WORK WILL START* ASAP	
23.	P	ROPOSED CASING AND	CEMENTING PROGR.	AM .		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT		
12 1/4"	9 5/8" new	36#	#250	Circulate to surface		
8 3/4"	7" new	23#	±3620'	Circulate to surface Circulate to liner top		
6 1/4"	4 1/2" new	11.6#, 10.5#	±7570 °	Circu	Tate to liner top	
energy Haratana Tananananan	U - 200 p 				subject to administrative nt to 30 CFR 290.	
See attached	đ.					
The gas is o	u. s. f.	EIVED 1 2 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	olug back, give data on p	present pro	DEC 2 1980 OIL CON. COM. DIST. 3 ductive zone and proposed new productive ed and true vertical depths. Give blowout	
zone. If proposal is to preventer program, if ap 24.	y.	my, give pertinent data	on subsuitact focusions of			
	A Misk	Lo. s	r. Production	Analyst	October 17, 1980	

CONDITIONS OF APPROVAL IF ANY:

Summer Variables

FOR *See Instructions On Reverse Side

APPROVAL DATE _

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

P. O. DOX 2018 SANTA FE, NEW MEXICO 87501

form C-107 keylied 10-1-,

All distances must be from the cuter houndaries of the Bestian.

Operator		NO DISTORTED WASTING INDI	m the cuter houndarie	• of the Secti	m.	_ •	
TENNF.CO OIL COMPANY			PRITCHARD Well No. 8			_	
Unit Letter P	Section	Township 29N	Range 8W	County	Juan		_
Actual Footage Loca	8-1		800	Jan			
Ground Level Elev:	feet from the Producing Form	Ine and	Pool 1	eet from the	East	line	
6322	DA	KOTA	DAKO	TA Bo	inin	Dedicated Acreage: 320 Acres	
1. Outline the	e acreage dedicat	ted to the subject we	l by colored penci	l or hachure	marks on th	e plat below.	_
2. If more the interest an	an one lease is d royalty).	dedicated to the well,	outline each and i	identify the	ownership th	hereof (both as to working	_
3. If more that dated by co	n one lease of di ommunitization, u	fferent ownership is d onitization, force-poolin	edicated to the wel g. etc?	l, have the	interests of	all owners been consoli-	b
Yes	No If an	swer is "yes;" type of	consolidation				-
If answer is	s "no," list the o	wners and tract descri	ptions which have	actually be	en consolida	sted. (Use reverse side of	ľ
No allowabl	le will be assigne	d to the well until all i	nteresta have been	consolidat		***	
forced-pooli	ing, or otherwise)	or until a non-standard	unit, eliminating s	uch interest	s, has been	approved by the Commis-	•
	1		i			CERTIFICATION	
•		3	1	j	I hereby co	ertify that the information con-	
مر	TENE	Y	ŀ			ein is true and complete to the	
		`\	The second second		best of my	knowledge and belief	
	ECENES hot?	3.54	Kirk		1.4	Mishler	
	المراجع والمراجع والمتعارض		-/-	-20- 1	Nomé R.	A. Mishler	
<i>\</i>	VIS SET		DEC 3	Olivie .	Position Sr.	Production Analyst	
1	7		1012 501	.3	Company		
	Sec.			Market Care Service	Date	neco Oil Company	\dashv
	<u> </u>				Oct	ober 17, 1980	4
	i	14	i			ertify that the well-location is plat was plotted from field	
	1		ŧ 1			stual surveys made by me or upervision, and that the some	
	I I		i		is true one	correct to the best of my	
	_		- - !		knowledge c	and belief.	
	1		1		Date Surveyed		4
	1		I @ 8	00'	October	5161501980	
	1		0			desistand Indineer	
	1		8000		Fred B.	Ken Jr.	
	Scales	1"=1000"			Certificate No.	JR.	1

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

DRILLING PROCEDURE

DATE: September	24,	1980
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LEASE: Pritchard

LOCATION: 800' FEL, 800' FSL Sec. 4, T29N, R8W San Juan County, New Mexico FIELD: Basin Dakota

WELL NO.: #8

ELEVATION: 6322 Est. G.L.

TOTAL DEPTH: 7570'

PROJECTED HORIZON: Dakota

SUBMITTED BY:	Mark Kangas	DATE: September 24, 1980
APPROVED BY:	Barne	DATE: 9/24/80

CC: Administration DSB Well File Field File

ESTIMATED FORMATION TOPS

Ojo	2032	Water
Fruitland	2752	Gas
Pictured Cliffs	3022	Gas
Lewis	3102	
Cliff House	4632	Gas
Menefee	4812	Gas
Point Lookout	5242	Gas
Mancos	5382	
Gallup	6472	
Greenhorn	7212	
Dakota	7302	Gas
T.D.	7552	
	Fruitland Pictured Cliffs Lewis Cliff House Menefee Point Lookout Mancos Gallup Greenhorn Dakota	Fruitland 2752 Pictured Cliffs 3022 Lewis 3102 Cliff House 4632 Menefee 4812 Point Lookout 5242 Mancos 5382 Gallup 6472 Greenhorn 7212 Dakota 7302

DRILLING, CASING AND CEMENTING PROGRAM.

- 1. MIRURT
- 2. Drill a 124" Hole to + 250' with Gel-Water Mud.
- 3. RU and run 9 5/8" 36# K-55 ST&C casing to TD. Cement with Class B + 2% CaCl₂ in sufficient quantity to circulate cement to surface. WOC 12 hours.
- 4. Screw on 9 5/8 8rd x 11-3000 casing head, NU BOPS. Pressure test casing, lines and blinds to 1000 PSI for 30 minutes. GIH with drill pipe and test pipe rams to 1000 PSI for 30 minutes. Record all tests on IADC Report.
- 5. Drill out using an 8 3/4" Bit and clear water. Drill to 3620'. Mud up prior to reaching intd. TD.
- 6. RU and run 7" 23# K-55 ST&C casing to bottom. Cement with 50:50 Pozmix, 4% Gel; tailed with 150 sx Class B + 2% CaCl₂. Circulate cement to surface. WOC 18 hours.
- 7. Set slips and cut-off casing. GIH with $6\frac{1}{4}$ " Bit and $3\frac{1}{2}$ " drilling assembly. Pressure test to 1000 PSI for 30 minutes. Record tests on IADC Report.
- 8. RU to Gas Drill. Drill to within 5' of shoe with water, unload hole with N_2 . Drill a few feet of new formation and blow with gas until dusting.
- 9. Drill a 6½ hole to TD with gas. Log open hole as directed by G.E. Department.
- 10. Run 4½" 11.6 and 10.50# K-55 ST&C as designed as a liner. Have 150' overlap inside the 7" casing. Cement with 50:50 Pozmix, 4% Gel; tailed by 100 sx of Class B. Use a fluid loss additive in the lead slurry and circ cement to liner top.
- Circulate out excess cement, LDDP and MORT.
- 12. Install tree and fence reserve pit.
- 13. If non-productive, P & A as required by the USGS.

Casing Program-

Interval	Length	Size	Weight 36#	Grade	Coupling STC
- 0-250	2:50	9 5/ 8	36#	K-55	STC
0-3620	3620	. 7	23#	K-55	STC
6970-7570	600	4 1/2	11.6#	K-55	STC
3470-6970	3500	4 1/2	10.5#	K-55	STC

MUD PROGRAM

0-250 Spud mud.

250-3620 Low solid, fresh water mud. (Nater and Benex.) Mud up prior to running casing.

3620-7570Gas.

EVALUATION

Cores and DST's: None.

Deviation Surveys:

- Survey surface hole at 100' intervals. Maximum allowable deviation at 500' is 1-1/2°.
- 3. 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 change in deviation is 1° per 100'. Maximum deviation allowable is 5°.

Samples: As requested by Wellsite Geological Engineer.

Logs: 1. GR/IND FDC-GR-Cal TD to MV

BLOWOUT EQUIPMENT

11" - 3000 BOP with rotating head to comply with TOC requirements as shown in BOE arrangement, FIgure C. Preventers must be checked for operation every 24 hours with each check recorded on the IADC 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.

- 1. 303-758-7130 (Office) Don Barnes 303-758-7287 (Office) Don Barnes' private line, Monday-Friday (before 7:45 a.m.) 303-936-0704 (Home) Don Barnes, weekends and holidays.
- 2. John Owen (Home) 303-795-0221

The yellow sheet of the IADC Report is 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:

The second secon

- 1. Mr. Don Barnes, Division Drilling Engineer.
- 2. Mr. John W. Owen, Project Drilling Engineer.
- 3. Mr. Mike Lacey, Division Production Manager (Home 303-979-0509).

TENNECO OIL COMPANY - 10 POINT PLAN

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

(See Attached Erilling Procedure)

4. Proposed Casing Program:

(See Attached Drilling Procedure)

- 5. Blowout Preventors:
 - Hydraulic double ram. 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.

10

6. Mud Program: (Sufficient quantity of mud and weight material will be available on location).

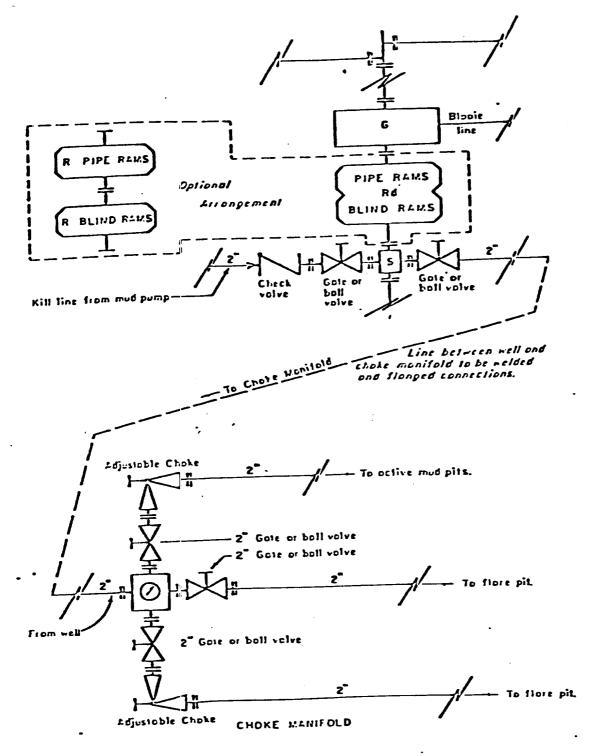
(See Attached Drilling Procedure.

- 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:

(See Attached Drilling Procedure)

- 9. No abnormal pressures, temperatures or potential hazards such as H₂S are expected to be encountered.
- 10. The drilling of this well will start approximately (ASAP ,) and continue for 10 to 12 days.

Your office 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.



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

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

ARRANGEMENT C

TENNECO OIL COMPANY ROCKY MOUNTAIN DIVISION REQUIRED MINIMUM BLOWOUT PREVENTER AN

CHOKE MANIFOLD J. MAGILL . 10-26-70

- 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 I 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.

- 3. 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 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 area of the location is relatively flat. Vegetation includes sage, snakeweek, prickly pear, crested wheat, cheatgrass and other native plants and 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.

R. A. Mishler

Sr. Production Analyst

7. Mishler

