SUBMIT IN TRIPLICATE*

(Other instructions on

Form approved. Budget Bureau No. 42-R1425.

	UNIT DEPARTMENT	ED STATES OF THE IN	TERIOR	reverse	side)	5. LEASE DESIGNATION	AND SERIAL NO.	
	GEOLD	GICAL SURVEY	<u> </u>			SF-0 80242 (<u>080244</u>	
APPLICATION	FOR PERMIT 1	O DRILL, DE	EPEN, OR	PLUG	BACK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME	
DRIL b. TYPE OF WELL	L X	DEEPEN		PLUG BA	ck 🗆	7. UNIT AGREEMENT N	AME	
	LL X OTHER		SONE X	MULTI Zone	PLE	S. PARM OR LEASE NAM	Œ	
2. HAMB OF OPERATOR						Riddle Com		
Tenneco Oil	Company					9. WELL NO.		
S. ADDRESS OF OPERATOR						#8		
	19, Englewood,					10. FIELD AND POOL, O		
4. LOCATION OF WELL (Re	-	in accordance with	any State require	ements.*)		Basin Dakot		
1630 F	SL, 790 FEL					11. SEC., T., R., M., OR B AND SURVEY OR AR	ilk. Za	
At proposed prod. some same a	as above					Sec. 18, T3	ON. R9W	
14. DISTANCE IN MILES AT		EST TOWN OR POST	OFFICE*			12. COUNTY OR PARISH		
Approximatel	y 6 miles Nort	h of Blanco,	N.M.			San Juan	N.M.	
15. DISTANCE FROM PROPUS	_		6. NO. OF ACRES	IN LEASE		OF ACRES ASSIGNED HIS WELL	•	
LOCATION TO NEAREST PROPERTY OR LEASE LI (Also to nearest drig.	NE, PT.	790 '	112	20	10 11	320		
18. DISTANCE FROM PROPO	SED LOCATION*		9. PROPOSED DEP	тн	20. BOTA	BY OR CABLE TOOLS	-	
TO NEAREST WELL, DRI OR APPLIED FOR, ON THIS			±714	19	R	otary		
21. ELEVATIONS (Show whet	ther DF, RT, GR, etc.)	6223 ' GR				January		
23.	P	ROPOSED CASING	·	ING PROGR	AM	1		
SIZE OF HOLE	BIZE OF CABING	WEIGHT PER FOO	T BETTI	G DEPTH		QUANTITY OF CEMEN	īT	
12 1/4"	9 5/8" new	36#		250	Circu	Circulate to surface		
8 3/4"	7" new	23#	±3	3470	Circu	Circulate to surface		
6 1/4"	4 1/2" new	11.6#, 10.	5# ±7	149	Circu	late to liner	top	
3 *	TOTAL TOTAL	-	l		1			
See attached	1			9				
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					\	DIST. 3		
IN ABOVE SPACE DESCRIBE sone. If proposal is to d preventer program, if any.	lrill or deepen directiona	proposal is to deeper lly, give pertinent d	or plug back, g lata on subsurfac	ive data on p ce locations a	present produced ind measured	native some and proposed d and true sertical depth	A new productives. Give blowou	
24. R. (P. Miskles		Sr. Produ	ction A	nalyst		r 11, 198	
SIGNED	R. A.	Mishler THIL				DATE		

(This space for Federal or State office use)

*See Instructions On Reverse Side

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501

P. O. UOX 2088 Form C-107 kevises 10-1-71

FORM 24-11

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

Tenneco oil company Tennec	·			1				Well No.	
Deli Letter 18 Section 19 30N 9W San Juan Actual Feeters Lecester of wall 16 30 feet from the South three and 790 feet from the East line Ground Level Elev: Producing Forestine Peol AKOTA Peol BASIN AKOTA Dedicated Acresque: 6223 1. Outline the acreage dedicated to the subject well by colored pencil or bachure 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? Yes No If answer is "yes," type of consolidation COMMUNITIZATION PENDING 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. TOC 2 SF080243 CERTIFICATION 1 Aereby certify that the information contained begins in true and complete to the layer on providege and belief. Name R. A. Mishler Position Sec. SF080243 Authors certify that the information contained begins to the well incention analyst Company Date Tenneco Oil Company	Operator TENNETO OTI COMPANY			I	RIDDLE COM				
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TENNECO DIL COMPANY ROCKY MOUNTAIN DIVISION PENTHOUSE, 720 SOUTH COLORADO BOULEVARD DENVER, COLORADO 80222

DRILLING PROCEDURE

DATE: September 4, 1980

LEASE: Riddle Com

WELL NO.:8

LOCATION: 1630 FSL, 790 FEL

Sec. 18, T30N, R9W

San Juan County, New Mexico

FIELD: Basin Dakota

ELEVATION: 6223, Est. G.L.

TOTAL DEPTH: 7149

PROJECTED HORIZON: Dakota

APPROVED BY:

Billy Harris

DATE: September 4, 1980

DATE: 9/5/20

CC: Administration DSB Well File

Field File

ESTIMATED FORMATION TOPS

Ojo	1690'	Water
Fruitland	24721	Water
Pictured Cliffs	29221	Gas
Lewis	29731	Shale
Cliff House	4164'	Gas
Menafee .	4256'	Gas
Point Lookout	4770'	Gas
Mancos	4895'	Shale
Gallup	6052'	
Greenhorn	6793'	
Dakota	68981	Gas
T.D.	7149'	

DRIFLING, CASING AND CEMENTING FROGRAM.

- 1. MIRURT
- 2. Drill a 12½" Hole to \pm 250 with Gel-Water, Mud.
- 3. RU and run 9 5/8" 36: K-55 ST&C casing to TD. Coment with Class B + 2% CaCl₂ in sufficient quantity to circulate casest 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 3470. Mud up prior to reaching intd. TD.
- 6. Ro and run 7" 23# K-55 ST&C casing to bottom. Cement with 50:50 Pozmix, 45 Gel; tailed with 150 sx Class B + 25 CaCl₂. Circulate cement to surface. WOC 18 hours.
- 7. Set slips and cut-off casing. GIH with 6½" Bit and 3½" 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 $\rm N_2$. Drill a few feet of new formation and blow with gas until dusting.
- 9. Drill a 64 hole to TD with gas. Log open hole as directed by G.E. Department.
- ,10. Run 4% 11.6 and 10.50 \pm 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.
 - 11. 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	Weicht	Grade	Coupling
0-250	250	9 5/8	36÷	K-55	STC
0-3470	3470	7	23≓	K-55	STC
3700-7149	149	4 1/2	11.6#	K-55	Sic
3270-7000	3 730	4 1/2	10.5#	K-55	STC

MUD PROGRAM

0-250 Spud mud.

250-3470 Low solid, fresh water mud. (Mater and Benex.) Mud up prior to running casing.

3470-TD Gas.

EYALUATION

Cores and DST's: None.

Daviation Surveys:

- 1. Survey surface hole at 100' intervals. Maximum allowable deviation at 500' is $1\text{-}1/2^{\circ}$.
- 3. From surface to total depth, deviation surveys must be taken every 500' or cach trip, whichever is first. This may entail running the TOTCO on wire-lie. Record each survey on the IADC Drilling Report Sheet. Maximum all wable change in deviation is 1° per 100'. Maximum deviation allowable i. 5°.

Samples: As requested by Wellsite Geological Engineer.

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

PLOMOUT 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, and properties, bit record, bottom hole assembly, daily and cumulative and 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 IADS Report is to be filled out completely. The or inal copy of the drilling time recorder, and copies of any invoices find this well, signed and received for Tenneco Oil Company, will be mailed daily to:

TENNECO DIL COMPANY
ROCKY MOUNTAIN DIVISION
PENTHOUSE, 720 SOUTH COLORADO BOULEVARD
DERVER, COLORADO 80222

ATTENTION: Drilling Department

IN CASE OF EMERGENCY, NOTIFY THE FOLLOWING:

- 1. Mr. Lon 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:

Naciemento

Estimated Formation Tops:

(See Attached Drilling Procedure)

4. Proposed Casing Program:

(See Attached Drilling Procedure)

5. Blowout Preventors:

2 & 3.

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.

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

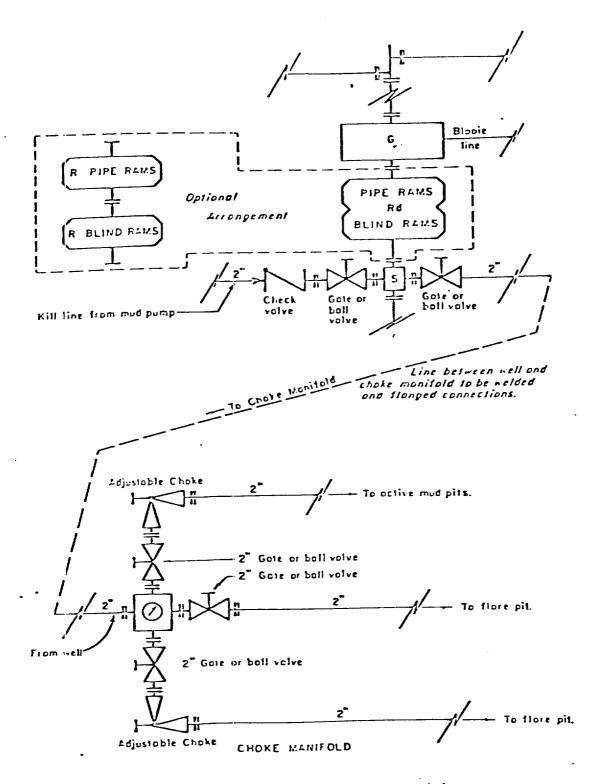
(See Attached Drilling Procedure.

- 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 () 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.

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

ARRANGEMENT C

TENNECO OIL COMPANY ROCKY MOUNTAIN DIVISION

REQUIRED MINIMUM
BLOWOUT PREVENTER AN
CHOKE MANIFOLD
J. MAGILL 10-26-79 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 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.

- 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 Location is on a bench below ridge top. Soil is sandy clay.

 Sandstone underlays entire location. Drainage is to NE.

 Vegetation includes pinon & juniper, gambles oak, russian thistle, mountain mahogany, bitterbrush, broadleaf yucca, narrowleaf yucca, and some 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.

R. A. Mishler

Sr. Production Analyst

