SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

rorm approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

جَ	0-045-34585
5.	LEASE DESIGNATION AND SERIAL NO.
	SF-078566
6.	IF INDIAN, ALLOTTEE OR TRIBE NAME
7.	UNIT AGREEMENT NAME

APPLICATION FOR PERMIT TO DRIL	L, DEEPEN, OR PLUG	BACK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
DRILL DEEP	EN 🗆 PLUG B	ack 🗆	7. UNIT AGREEMENT NA	ME
D. TYPE OF WELL OIL WELL OTHER 2. NAME OF OPERATOR	SINGLE X MUL ZONE X ZONE	TIPLE	8. FARM OR LEASE NAM Storey	i E
Tenneco Oil Company 8. ADDRESS OF OPERATOR			9. WELL NO.	
720 So. Colorado Blvd., Denver, Co	10. FIELD AND POOL, OF Basin Dakota	R WILDCAT		
4. LOCATION OF WELL (Report location clearly and in accordan At surface 1660 FSL, 1470 FEL At proposed prod. sone	ice with any State requirements.		11. SEC., T., R., M., OR B AND SURVEY OR AR Sec. 26, T28	ra .
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN CAPPROX. 12 miles SE of Blanco, N.M.			12. COUNTY OR PARISH San Juan	N.M.
15. DISTANCE FROM PROPOSED® LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)	16. NO. OF ACRES IN LEASE 1266.8	TO T	of acres assigned his well 320	
18. DISTANCE FROM PROPOSED LOCATION® TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEARE, FT.	19. PROPOSED DEPTH 7030		RT OR CABLE TOOLS Rotary	
21 FIRVATIONS (Show whether DF, RT, GR, etc.)			22. APPROX. DATE WO	BE WILL START

PROPOSED CASING AND CEMENTING PROGRAM QUANTITY OF CEMENT SETTING DEPTH SIZE OF CASING WEIGHT PER FOOT BIZE OF HOLE 36# ±250 ufficient to circulate to surfa-12 1/4" 9 5/8" new 7" new sufficient to circulate to surfa-8 3/4" 23# ±3100°

±7030' 6 1/4" 4 1/2" 11.6#, 10.5# new

circulate cement to liner top

1981

See attached.

The gas is dedicated.

5867' GR





Effect parameter de chi à

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout

preventer program, if any. 24. TITLE Sr. Production Analyst R.A. Mishler BIGNED (This space for Federal or State office use) PERMIT NO. APPROVED BY CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

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

Form C-107 kevised 10-1-7

GY ME MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501

		All distances must be fr	om the cuter hounds	iles of the Section	١.	
Operator			Lease			Well No.
TENNECO OI	L COMPANY		STOREY D			1E -
Unit Letter	Section	Township	Range	County		1 44
J	26	28N	8w	_ *	Juan	
Actual Footage Loc		1 201		- I Dail	DUAN	
1660	_	4h	11.70		To at	
Ground Level Elev.		outh line and	1470	feet from the	East	line
5867	Producing For	motion	Pool	. 4 .	•	Dedicated Acreages
2001	Dakota		Basin Dak	ota .		3ZO Acres
1. Outline the	e acreage dedica	ted to the subject we	ell by colored ne	ncil or hachure	marks on t	he plat below
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2. If more th interest an		dedicated to the wel	l, outline each a	nd identify the	ownership t	hereof (both as to working
3. If more tha	in one lease of d	ifferent ownership is	dedicated to the	well, have the	interests of	all owners been consoli-
		nitization, force-pooli				. WII OWNERS DEEN CONSON-
					•	•
Yes	X No If an	sewer is ffues!! tune s	f consolidation			•
L res	الله 140 Trap	swer is "yes," type o	r consolingrion _			-
76	- 44_a!! 1:as al			11 . 1		. 1 /**
Alianswer i	s no, list the (DANGERS WOO TACE GESC	riptions which he	ive actually be	en consolid	ated. (Use reverse side of
•	necessary.)					
No allowab	le will be assigne	ed to the well until all	interests have b	een consolidat	ted (by com	munitization, unitization,
forced-pool	ing, or otherwise)	or until a non-standar	d unit, eliminatio	g such interest	s, has been	approved by the Commis-
sion.				_	•	
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2	1	262	12120 WAS			certify that the well location
7.	!	TO AR	12/201		shown on	this plat was plotted from field
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TENNECO OIL COMPANY ROCKY MOUNTAIN DIVISION PENTHOUSE, 720 SOUTH COLORADO BOULEVARD DENVER, COLORADO 80222

DRILLING PROCEDURE

DATE:	August	27,	1980
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LEASE: Storey

WELL NO.: D-1E

LOCATION: 1660 FSL, 1470 FEL Section 26., T28N, R8W San Juan County, New Mexico

FIELD: Basin Dakota

ELEVATION: 6020' Est. G.L.

TOTAL DEPTH: 7030'

PROJECTED HORIZON: Dakota

SURMITTED BY:_	David Kranz	DATE:_	August 27, 1980
APPROVED BY:	Bane	DATE:_	9/4/80

CC: Administration DSB Well File Field File

ESTIMATED FORMATION TOPS

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Fruitland	2230'	(Gas or Water)
Pictured Cliffs	2460'	(Gas)
Lewis	2600'	(Shale)
Cliff House	4130'	(Gas)
Menefee	4180'	(Gas or Coal)
Point Lookout	4710'	(Gas)
Hancos	5090	(Shale)
Gallup	5890'	
G: eenhorn	6630'	
Dakota	6730'	(Gas)
T.D.	7030'	

DRILLING, CASING AND CEMENTING PROGRAM.

- MIRURT
- 2. Drill a 12 $\frac{1}{4}$ " Hole to $\frac{1}{4}$ 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 3100'. 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 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 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 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.
- 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	Weight	Grade	Coupling
0-250	250	9 5/ 8	36 #	K-55	STC
0-3100	3100	7	23 <i>#</i> ,	K-55	STC
7000-7030	30	41/2	116#	K-55	STC
2950 -700 0	4050	4 1/2	10.5#	K-55	STC

MUD PROGRAM

0-250 Spud mud.

250-3100 Low solid, fresh water mid. (Water and Benex.) Mud up prior to running casing.

3100-TD Gas.

EVALUATION

Cores and DST's: None.

Deviation Surveys:

- 1. Survey surface hole at 100' intervals. Maximum allowable deviation at 500' is $1-1/2^{\circ}$.
- 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

ELONGUT 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:

- 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 Formation
- 2 & 3. Estimated Formation Tops:

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

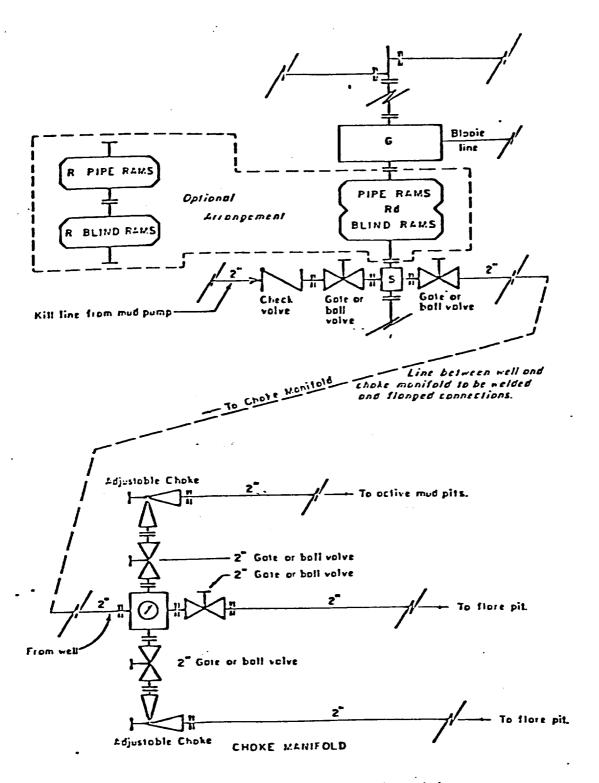
(See Attached Drilling Procedure.

- 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 (1981) 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 rom 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 Rotating head 150 psi working pressure minimum

ARRANGEMENT C

TENNECO OIL COMPANY
ROCKY MOUNTAIN DIVISION
REQUIRED MINIMUM
BLOWOUT PREVENTER AN
CHOKE MANIFOLD
J. MAGILL 10-26-70 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.
- 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 b
 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 well location is on the south side of Carrizo Wash.

 Vegetation includes sage, rabbit grass, sparse pinon pine and juniper. Soil is sandy.
- 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

