SUBMIT IN TEMPLICATE. (Other instructions on reverse side)

Form approved. Pudget Eurenu No. 42/R1425

DYST 24656 PENIGNATION AND BEHAL NO.

UNITED STATES
DEPARTMENT OF THE INTERIOR

	GEOLOGICAL SOLVEL				SF 0//111		
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK					6. IF INDIAN, ALLOTTEE OF THEE NAME		
IR. TYPE OF WORK	LL X	DEEPEN [PLUG BA		7. UNIT AGREEMENT NAME	
b. TIPE OF WELL OIL GA	e X OTHER		SINGLE X	MULTIP ZONE	ru	E. FARM OR LEASE NAME	
2. NAME OF OPERATOR						Storey Com C	
Теппесо (Oil Company					9. WELL NO.	
3 ADDRESS OF OPERATOR	OII OOMPANI			All of the latest the same of the latest the		4E	
P O Box	3249, Englewood	. Colorado	80155 RF	CEIL		IO. FIELD AND POOL, OR WILDCAT	
4 LOCATION OF WELL (Re	port location clearly and	in accordance wit	b any State requir	ements.	エニナ	Basin Dakota	
				OT 27 19	189	11. BEC., T., R., M., OE BLK. AND SURVEY OR AREA	
At proposed prod. zone				Sec. 15, T28N, R9W			
	as above		0. S. G	<u>EOROGICAL &</u>	Str.	12. COUNTY OF PARISH: 13. STATE	
	NI DIRECTION FROM NEAR			AINGTON, N.	14.		
Approximat	ely 5 miles SE o	of Blanco,	N.M.				
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to mearest drig, unit line, if any)		16. NO. OF ACRE.	13? 25%.	T O T	of acres assigned this well (320		
18. DISTANCE FROM PROPOSED LOCATION [®] TO NUMBEST WELL DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.		19. PROPOSED DE ±6830			BY OR CABLE TOOLS		
21. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)	5918' GR				22. AFFROX, DATE WORK WILL STAR. April 1981	
20.	P	ROPOSED CASIS	G AND CEMEN	ring Progr	I/A		
SIZE OF HOLE	RIZE OF CASING	WEIGHT PERF	OOT SETT	ING DEPTH	,	QUANTITY OF CEMENT	
12 1/4"	9 5/8" new	36#	±250' Cir		Circ	rculate to surface	
8 3/4"	7" new	23#			Circ	rculate to surface	
6 1/4"	4 1/2" new	11.6#, 10	.5#	±6830'	Circ	culate to liner top	
,			!		•		

Figure of Premarichs Authorized are TE THOSE WITH ATTACHED

See attached.

The is subject to administrative Egg au gurouent en 00 CFR 290.

The gas is dedicated.

TITE _ Sr. Production Analyst

PATE October 20, 1980

Buchambey

"See Institut and On Reverte S'de

STATE OF NEW MEXICO

OIL CONSERVATION DIVISION

P. O. BOX 2088 SANTA FE, NEW MEXICO 87501 Form C-107 Revised 10-1-78

NERGY AND MINERAL	S DEPARTMENT	SANTA	FE, NEW M				Kevised 10-1-78
Operator			Lease				Weil No.
TENNECO OIL COMPANY				STOREY COM C			μE
Unit Letter S	ection	Township	Range	7	County		
G Actual Footage Location	15	28N	1 9	<u> </u>	San .	uan	
		orth line	and 1540	· [e-	st from the	East	line
round Level Elev.	Producing For		Pool				Dedicated Acreage:
5918	Dakota		Basi	Dakota			320 Acres
2. If more than interest and	one lease is royalty).		well, outline o	each and ide	entify the c	wnership t	hereof (both as to working
dated by con	nmunitization, u	nnitization, force-p	ooling.etc?	ation			all owners been consoli-
this form if n No allowable	ecessary.) will be assign	ed to the well unti	l all interests	have been	consolidat	ed (by com	nmunitization, unitization, approved by the Commis-
					* * * * * *		CERTIFICATION
,			1790:	SF O TOC CONS	4	tained he	certify that the information con- crein is true and complete to the y knowledge and belief. A. Mushler
	- + 		+ - -	15և0'		Company	R. A. Mishler Production Analyst neco Oil Company
	 s l	ec.				Date Oct	ober 20, 1980
	! ! ! ! ! !	SF CC	077/11 2 2 1			shown on notes of under my is true	certify that the well location this plat was plotted from field actual surveys made by me or supervision, and that the same and correct to the best of my e and belief.
			· - 1 	-		Date Surve	Poliperional Solleer
0 330 860 -90	1320 1680 19	10 2310 2640	2000 1800	1000	500 0	Certificol 3950	MO B. KEKE.

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

DRILLING PROCEDURE

DATE: August 26, 1980

LEASE: Storey Com

WELL NO.: C #4E

LOCATION: 1790 FNL, 1540 FEL Section 15, T28N, R9W San Juan County, New Mexico

FIELD: Basin Dakota

ELEVATION: 5918 Est. G.L.

TOTAL DEPTH: 6830'

PROJECTED HORIZON: Dakota

SUBMITTED BY:_	David Kranz	DATE: <u>August 26, 1980</u>
APPROVED BY:	Bame	DATE: 9/30/50

CC: Administration DSB Well File Field File

ESTIMATED FORMATION TOPS

Fruitland	2090'	Gas/Water
Pictured Cliffs	2210'	Gas
Lewis	2300'	Shale
Cliff House	3850'	Gas
Menefee	3990'	Water/Gas
Point Lookout	4440'	Water/Gas
Maricos	4805'	Shale
Gallup	5660'	Water
Greenhorn	6430'	
Dakota	6550'	Gas
T.D.	6 830'	

DRILLING, CASING AND CEMENTING PROGRAM.

- 1. MIRURT
- 2. Drill a 12½" 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 2800'. 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 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 0-250	<u>Length</u> 250	<u>Size</u> 9 5/8	Weight 36#	Grade K-55	Coupling STC	
0-2800	2800	7	23#	K-55	STC	
2650-6830	4180	4 1/2	10.5#	K-55	STC	

MUD PROGRAM

0-250 Spud mud.

250-2800 Low solid, fresh water mud. (Mater and Benex.) Mud up prior to running casing.

2850-TD Gas.

EVALUATION

Cores and DST's: None.

Deviation Surveys:

- Survey surface hole at 100' intervals. Maximum allowable deviation at 500' is 1-1/2°.
- From surface to total depth, deviation surveys must be taken every 500' or each trip, wheihever 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 MY

ELOWOUT 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

The geological name of the surface formation: San Jose

2 & 3. Estimated Formation Tops:

(See Attached Drilling Procedure)

Proposed Casing Program: 4.

(See Attached Drilling Procedure)

Blowout Preventors: 5.

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.

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

(See Attached Drilling Procedure.

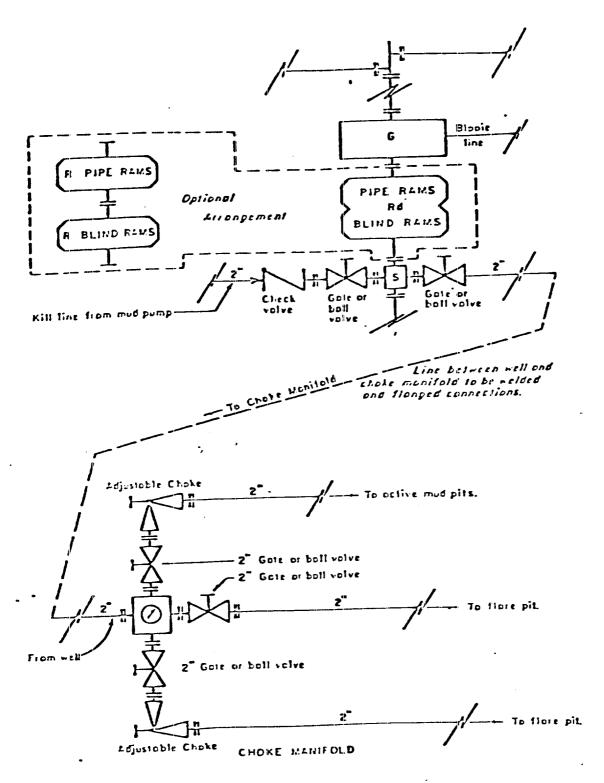
- 7_ Auxiliary Equipment:
 - a. Kelly cock will be in use at all times.
 - b. Stabbing valve to fit drill pipe will be present on floor at all times.c. Mud monitoring will be visual. No abnormal pressures are anticipated.

 - 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.
- Coring, Logging, and Testing Program: 8.

(See Attached Drilling Procedure)

- No abnormal pressures, temperatures or potential hazards such as H2S are ex-9. pected to be encountered.
- The drilling of this well will start approximately ($_{\mbox{\sc April}\ 1981}$) and 10. 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 os noted.

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

ARRANGEMENT C

TENNECO OIL COMPANY ROCKY MOUNTAIN DIVISION REQUIRED MINIMUM BLOWOUT PREVENTER AN
CHOKE MANIFOLD
J. DAGILE 10-22-70 EVI

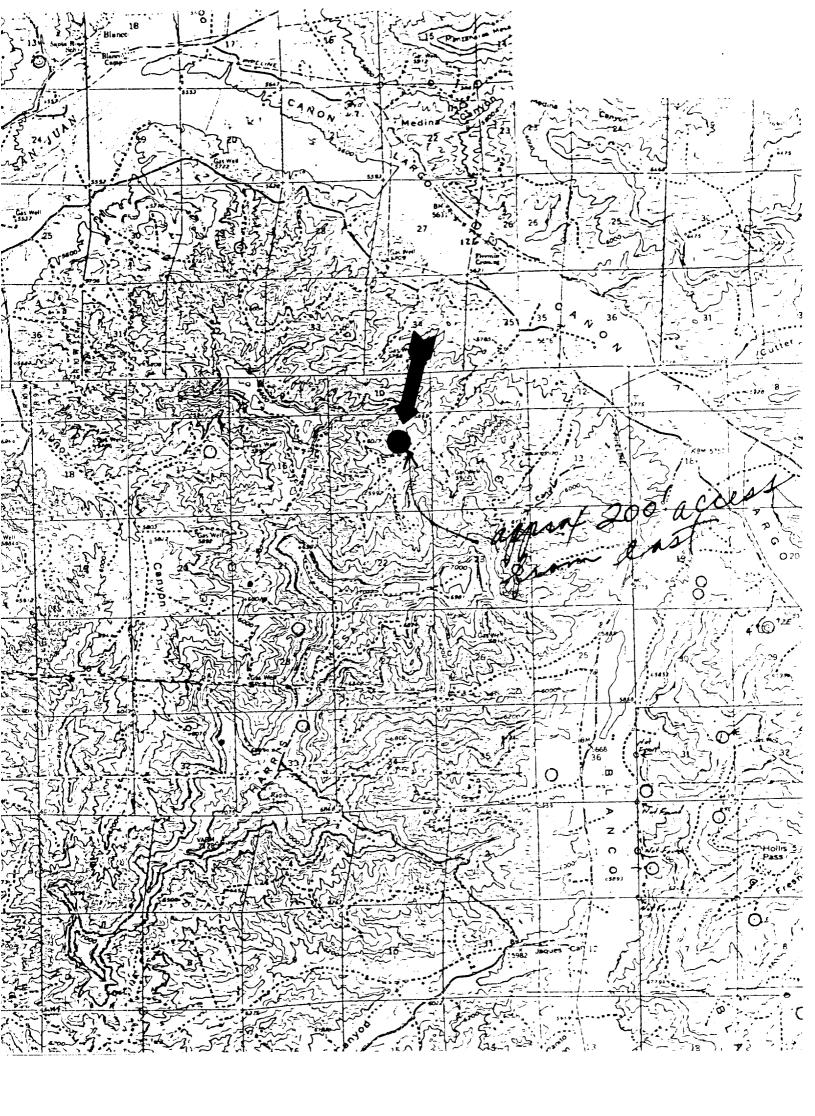
- 1. Existing Road Please refer to Map No. 1 which shows the existing roads. New roads which will be required have been marked on this map. All existing and new roads will be properly maintained during the duration of this project.
- 2. Planned Access Roads Please refer to Map No. 1. The grade of the 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.
- 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. provided for human waste. If large amounts of liquids are J ę. 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.

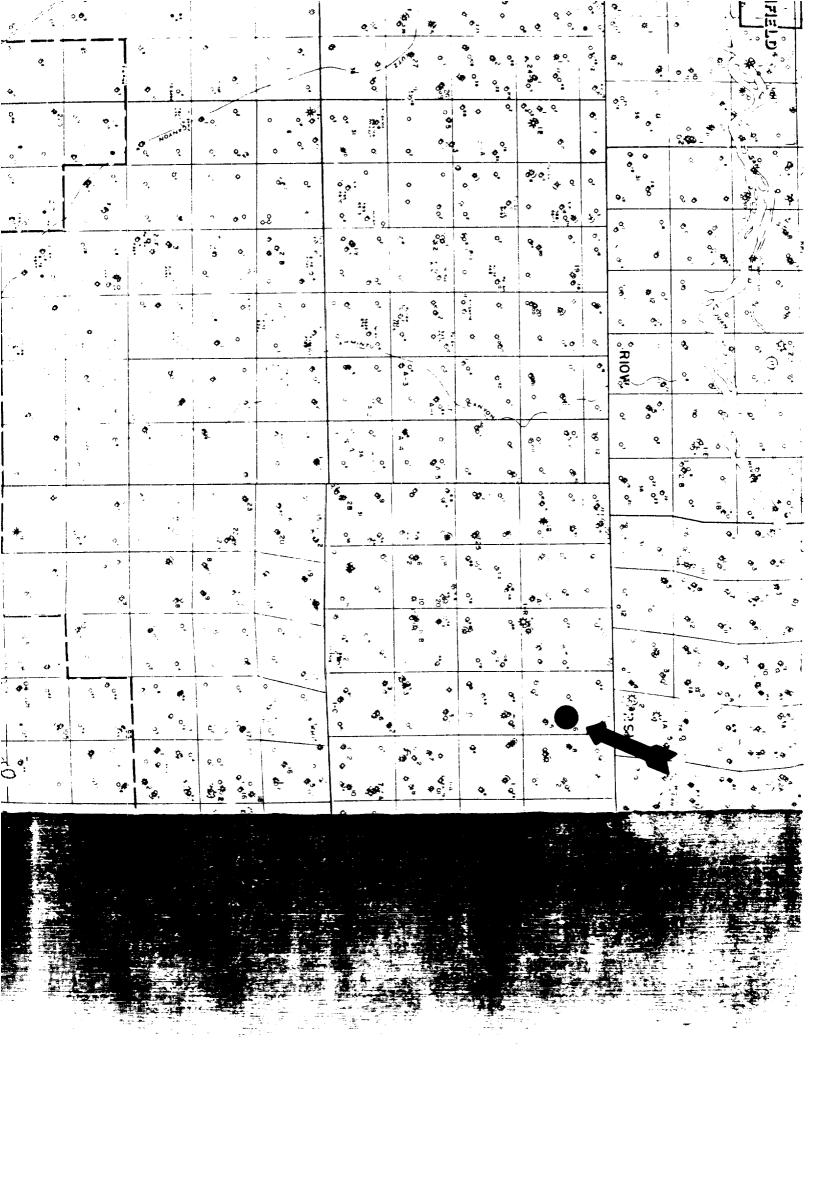
- E. Ancillary Facilities No camps or airstrips will be associated with this project.
- 9. Wellsite Layout Please refer to the attached Plat No. 1.
- 10. Flans for Restoration of the Surface After completion of the proposed project the location will be cleaned and leveled. The location will left in such a condition that will enable reseading 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 Canyon rincon with northeasterly drainage, alluvial surface deposits, and sandstone outcrops. Vegetation includes pinon, juniper, sage, wolfberry, mock orange, mountain mahogany, narrow leaf yucca, prickly pear, three-awn, brome, and other native plants and grasses.
- 12. Cparator's Representative See drilling prognosis.
- 13. Cartification -

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 contracts s and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

R. A. Mishler

Sr. Production Analyst





Plat No. 1

