SUBMIT IN TRIPLICATE.

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES

DEPARTMENT OF THE INTERIOR				30-045-245-94		
GEOLOGICAL SURVEY				5. LEASE DESIGNATION AND KERIAL NO.		
APPLICATIO	N FOR PERMIT	O DRILL, DE	EPEN, OR P	LUG BACK	SF-079319 6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
1a. TYPE OF WORK	uu 👨	DEEDEN!				
DN b. TYPE OF WELL	RILL X	DEEPEN [PLU	JG BACK 🗌	7. UNIT AGREEMENT NAME	
WELL	VELL X OTHER		SINGLE X	MCLTIPLE ZONE	S. FARM OR LEASE NAME	
2. NAME OF OPERATOR					Schwerdtfeger A	
	Oil Company				9. WELL NO.	
3. ADDRESS OF OPERATOR		_			6E	
4. LOCATION OF WELL (I	Colorado Blvd., Report location clearly and	Denver, Color	ado 80222		10. FIELD AND POOL, OR WILDCAT	
At builde	FNL, 940 FWL	in accordance with a	ny State requiremen	ots.•)	Basin Dakota	
At proposed prod. 200 same	-				11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA	
	AND DIRECTION FROM NEAR	EST TOWN OF POST OF	re comâ		Sec. 8, T27N, R8W	
	12 miles SE of B		FICE		12. COUNTY OR PARISH 13. STATE	
15. DISTANCE FROM PROF	USED*		. NO. OF ACRES IN	Tries 117 vo	San Juan N.M.	
LOCATION TO NEARES PROPERTY OR LEASE	LINE, FT.	940'	2516.33		OF ACRES ASSIGNED HIS WELL / 200	
(Also to nearest drl 18. DISTANCE FROM PROI	OSED LOCATIONS		. PROPOSED DEPTH		\mathcal{N} 320	
OR APPLIED FOR, ON TH			±7100'		RY OR CABLE TOOLS	
21. ELEVATIONS (Show wh 6134 GR	etner Dr. RT, GR, etc.)				June 1981	
23.	P	ROPOSED CASING	AND CEMENTING	PROGRAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DE	PTH		
12 3/4"	9 5/8" new	36#	±250'		llate to surface	
8 3/4"	7" new	23#	±3010'	Circu	late to surface	
6 1/4"	4 1/2" new	11.6#, 10.5	# ±7100'	Circu	late to liner top	
•	' '!	-	1	1 Prince 61	ntha guir na seo Phintipu aye Tha Read Na seo Chailes ayu ,	
See attache The gas is						
,	•				OCT CON 2 1980 OIST. COM.	
IN ABOVE SPACE DESCRIBE zone. If proposal is to d preventer program, if any 24.	PROPOSED PROGRAM: If pririll or deepen directional	oposal is to deepen o y, give pertinent data	r plug back, give da a on subsurface loca	ata on present produ ations and measured	ctive zo e and proceed new productive and true vertical depths. Give blowout	
SIGNED R. A.	//lizhle	TITLE _	Sr. Product:	ion Analyst	September 10, 1980	
(This space for Feder	al or State office use)					
PERMIT NO.			APPROVAL DATE _			
APPROVED BY SUCCESSION OF THE PROVA	LIFANY:	TITLE			DATE	
10	l'				-	

STATE OF NEW MEXICO EHERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION SANTA FE, NEW MEXICO 87501

Form C-107 kevised 10-1-78

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

Cperat or		711 21111111111111111111111111111111111	Lease			Wel	l No.	
TENNECO OIL COMPANY			SCHWI	SCHWERDTFEGER A			6E	
Unit Letter	Section	Township	Range		County	_		
D	8	27N		<i>i</i>	San Juan			
Actual Footoge Loc		umath 1-	and 940	· ·	t from the Wes	t line		
1120 Ground'Level Elev.	Producing For		Pool	1661	TOTH THE HOD	Dedicated .		
6134	Dakota		Basi	n Dakota		37	-O Acres	
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.								
interest ar	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).							
		ifferent ownershi		to the well,	have the inter	ests of all owner	rs been consoli-	
Yes	X No If a	nswer is "yes," ty	ype of consolid	lation		·	·	
	is "no," list the f necessary.)	owners and tract	descriptions w	which have ac	tually been co	onsolidated. (Use	reverse side of	
No allowal	ble will be assign	ed to the well unt or until a non-sta	il all interests indard unit, eli	have been o	consolidated () h interests, he	by communitizati	on, unitization, by the Commis-	
F			1		T	CERTIFIC	CATION	
120	.		i i		,	hereby certify that t	he information con-	
	.		i i		1 1	oined herein is true best of my knowledge		
940'	 		!		No	K.a. Mu	stler	
[+		i			R. A. Mish	ler	
() () () () () () () () () ()	į	į	: -		-		tion Analyst	
.] 	•		Tenneco Oi	l Company	
- - -	.	Sec.	; [· - -	Da	September	10, 1980	
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	 					Fred B Korr	Jr. D	
£2 = 20 000	·00 1320 1650 19	0 2310 2640	2000 1800	1000	•••	My Messer No. 14.		

TERMELO COL COMPONY ROCKY MICHTAIN DENISION PENTHOUSE, 720 SOUTH COLLRADO FOULEVARD DENVER, COLORADO 80222

DRILLING PROCEDURE

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8/26/80 .

LEASE:

Schwerdtfeger

WELL NO.:

А-бп

LOCATION:

1120'FNL, 940'FWL

FIELD:

Basin Dakota

Section 8, T27N, R8W San Juan County, N.M.

ELEVATION

6134

TOTAL EXPTH:

7100'

PROJECTED HORIZON:

Dakota

SUBMITTED BY: C.T. RUSSEL DATE: 8-27-80

APPROVED BY: DATE: 9/8/80

CC: Administration DSB Well File Field File

ESTIMATED FORMATION TOPS

Ojo	
-----	--

Fruitland

L. H.Cleaner		
Pictured Cliffs	2410'	Gas
Lewis	2510'	Shale
Cliff House	4030'	Gas
Menefee	4100'	Gas/Water
Point Lookout	47401	Gas
Mancos	5080'	Shale
Gallup	5880'	-
Greenhorn	6660'	-
Dakota	67601	Gas
T.D.	7100	
1. υ.	, 100	

DRINGHAMS, CASING AND COMPANIES THEREIM.

- 1. ILI U.T
- 2. Drill a 12%" Hole to \pm 250 with Gel-Water Mud.
- 3. RU and run 9 5/8" 36# K-55 ST&C casing to 1D. Coment with Class B + 2% CaCl $_2$ in sufficient quantity to circulate coment to surface. WOC 12 hours.
- 4. Some, on 9.5/8 8rd x 11-3000 dasing 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 $_{3010}$. 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 \pm 2% CaCl $_2$. Circulate cement to surface. WOC 18 hours.
- 7. Set slips and cut-off casing. GIH with 64" 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 $\rm K_2$. 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% K-55 ST&C as designed as a liner. Have 150' overlap inside the 7" casing. Coment with 50:50 Pozmix, 4% Gel; tailed by 100 sm of Class B. Use a fluid less 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 USSS.

Casing Program

Interval	Length	Size	Weight `	Grade	Coupling
0-250'	250'	9 5/8	36÷	K-55	STC
0-3010'	3010'	7	23=	K-55	STC
7000-7100	1601	4 1/2	11.6≐	K-55	STC
2860-7000'	4140'	4 1/2	10.5≓	K-55	STC

MUQ PROGRAT

Long . Spud mid.

tow solid, fresh water mud. (Mater and Benex.) Mud up prior to running casing.

3010-TD Gas.

EVALUATION

Cores and DST's: None.

Deviation Surveys:

- 1. Survey surface hole at 100' intervals. Maximum allowable deviation at 500' is $1-1/2^0$.
- 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 alloyable 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 NV

BLOWOUT EQUIPMENT

11'' - 3000 BOP with rotating head to comply with TOC requirements as shown in FDE arrangement, Figure C. Preventers must be checked for operation every 24 hours with each check recorded on the IADC Drilling Report Sheet.

REFORTS

Drilling reports for the past 24 hours will include depth, foolegs, 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 DIL COMPANY
ROCKY MOUNTAIN DIVISION
FENTHOUSE, 720 SOUTH COLORADO EDULEVARD
DENVER, COLORADO 80222

ATTENTION: Drilling Department

IN CASE OF EMERGENCY, NOTIFY THE FOLLOWING:

- 1. Mr. Don Barnes, Division Drilling Engineer.
 - 2. Mr. John Dewen, 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 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).

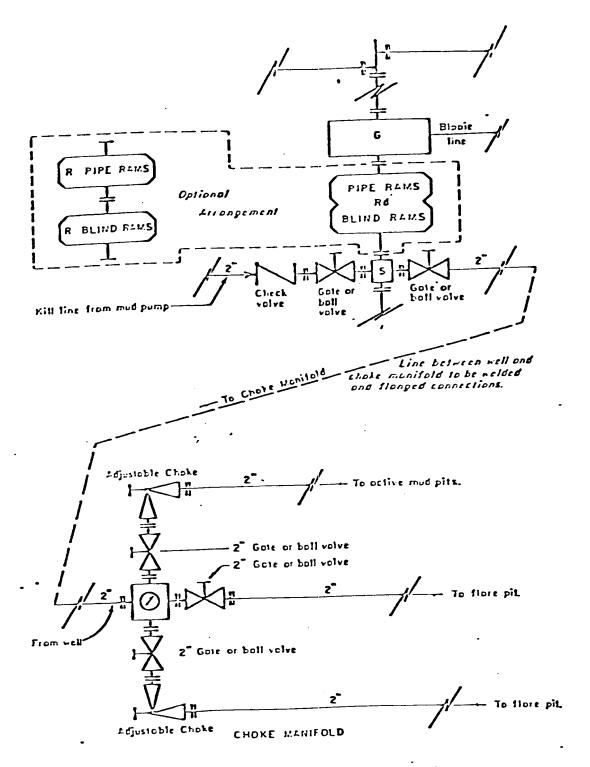
(See Attached Drilling Procedure.

- 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 (June 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.

- 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 10-26-79

- 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.
- 14. 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.

- 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. 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 Sandy soil. Located in upper canyon floor. Vegetation includes pinon and juniper, snakeweed, other native plants and shrubs.
- 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

