#### SUBMIT IN TRIPLICATE.

(Other instructions on

Form approved. Budget Bureau No. 42-R1425.

HIMITED STATES

	5. LEASE DESIGNATION AND SERIAL NO.					
	SF 079319					
	N FOR PERMIT 1	TO DRILL, DEE	PEN, OR PLUG	6. IF INDIAN, ALLOTTEE OF TRIBE NAME		
	RILL X	DEEPEN 🗌	- PLUG BA	CK 7. UNIT AGREEMENT NAME		
OIL WELL	GAS X OTHER		SINGLE X MULTI	8. FARM OR LEASE NAME		
2. NAME OF OPERATOR	WHEEL CLEEN		2012 QD 2012	Schwerdtfeger A		
Tenneco Oil	l Company			9. WELL NO.		
S. ADDRESS OF OPERATOR				5E		
P.O. Box 33	249, Englewood,	Colorado 8015	5	10. FIELD AND POOL, OR WILDCAT		
4. LOCATION OF WELL ()	Report location clearly and	in accordance with any	State requirements.*)	Basin Dakota		
	FNL, 1060 FEL			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA		
At proposed prod. so	one					
	e as above			Sec. 6, T27N, R8W		
14. DISTANCE IN MILES	AND DIRECTION FROM NEAR	LEST TOWN OR POST OFFI	CE.	12. COUNTY OR PARISH 13. STATE		
	ely 10 miles SE			San Juan N.M.		
15. DISTANCE FROM PROI LOCATION TO NEARE	BT	16. 1	O. OF ACRES IN LEASE	TO THIS WELL		
	ig. unit line, if any)		2516.33	E/320,84		
	DRILLING, COMPLETED,	19. 1	PROPOSED DEPTH	20. BOTARY OR CABLE TOOLS		
OR APPLIED FOR, ON T			±7200	Rotary		
21. ELEVATIONS (Show w	bether DF, RT, GR, etc.)			22. APPROX. DATE WORK WILL START*		
		6456' GR		March 1981		
23.	P	ROPOSED CASING AN	D 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#	±3190	Circulate to surface		
6 1/4"	4 1/2" new	11.6#, 10.5#	±7200	Circulate to liner top		
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The gas is dedicated.



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive sone and proposed new productive sone. 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.			_	
SIGNED AND STITE STITE	Sr. Productio	n Analyst	December 15, 198	0
(This space for Federal or State office use)	<del></del>			
PERMIT NO.	APPROVAL DATE	·		
		r * '',		
CONDITION ASSESSMENT PROPERTY OF THE PROPERTY	.E		DATE	

\*See Instructions On Reverse Side 444 7000 1000

# **PIL CONSERVATION DIVISION**

# STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

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

Form C-107 Revised 10-1-78

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

Operator			Lex	Lease				Well No.		
TENNECOGGIL COMPANY				SCHWERDTFEGER A						
Unit Letter	Section	Township		Range		County				
A Actual England Local	otion of Well:	27N		8W	97"	San J	uan			
Actual Footage Location of Well:  860 feet from the North line and 1060 feet from the East line										
Ground Level Elev.	Producing For		Poo	<b>51</b>			Dec	dicated Acreage:		
6456	Dakota			Basin	Dakota			320 Acres		
	e acreage dedica									
	an one lease is id royalty).	dedicated to	the well, or	atline e	ach and ide	entify the o	ownership there	of (both as to working		
3. If more the	one lease of d	ifferent owne mitization, fo	ership is dedi prce-pooling.	icated to etc?	o the well,	have the i	nterests of all	l owners been consoli-		
Yes		swer is "ye			tion	<del></del>		· · · · · · · · · · · · · · · · · · ·		
		owners and t	ract descript	ions wh	ich have a	ctually bee	en consolidated	l. (Use reverse side of		
No allows	f necessary.)	ed to the wel	l until all int	erests	have been	consolidat	ed (by commun	nitization, unitization,		
forced-pool	ling, or otherwise)	or until a no	n-standard ur	nit, elim	inating su	ch interest	s, has been ap	proved by the Commis-		
sion.	<i>3</i> .	·								
		7					C	ERTIFICATION		
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	+			-				Mishler		
	ı	E		l I			Position Sr. Pr	roduction Analyst		
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# TENNECO OIL COMPANY ROCKY MOUNTAIN DIVISION PENTHOUSE, 720 SOUTH COLORADO BOULEVARD DENVER, COLORADO 80222

## DRILLING PROCEDURE

DATE:

August 26, 1980

LEASE:	Schwerdtfeger	WELL NO.: A-5E
LOCATI	ON: 850' FNL, 1060' FEL Section 6, T27N, R8W San Juan County, New Mexico	FIELD: Basin Dakota
ELEVAT	TION: 6456'	
TOTAL	DEPTH: 7200'	
PROJEC	TED HORIZON: Dakota	
SUBMIT	TTED BY: George Trussell	DATE: August 26, 1980
APPROV	/ED BY:	DATE:
D	Administration OSB Well File Field File	

# ESTIMATED FORMATION TOPS

$\mathbf{a}$	-	_
U	. 1	u

Fruitland	<b>-24</b> 80'	Gas/Water
Pictured Cliffs	2580'	Gas
Lewis	2690'	Shale
Cliff House	4220'	Gas
Menefee	<b>4</b> 280'	Gas/Water
Point Lookout	4880'	Gas
Mancos	5180'	Shale
Gallup	6040'	Water/Oil
Greenhorn	6800'	
Dakota	6900'	Gas
T.D.	7200'	

#### DRILLING, CASING AND CEMENTING PROGRAM.

- MIRURT
- 2. Drill a  $12\frac{1}{4}$ " Hole to  $\pm$  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% CaCl<sub>2</sub> 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 3190'. 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% CaCl<sub>2</sub>. 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  $4\frac{1}{2}$ " 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	<u>Weight</u> 36#	Grade	Coupling
0-250	<u>Length</u> 250	<del>9 5/</del> 8	36#	K-55	Coupling STC
0-3190	3190	7	23#	K-55	STC
7000-7200	200	4 1/2	11.6#	K-55	STC
3040-7000	3960	4 1/2	10.5#	K-55	STC

#### MUD PROGRAM

0-250 Spud mud.

250-3190 Low solid, fresh water mud. (Nater and Benex.) Mud up prior to running casing.

3190-TD Gas.

#### **EVALUATION**

Cores and DST's: None.

Deviation Surveys:

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

From surface to total depth, deviation surveys must be taken every 500' or each trip, whethever 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  $1^{\circ}$  per 100'. Maximum deviation allowable is  $5^{\circ}$ .

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:

- 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:

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).

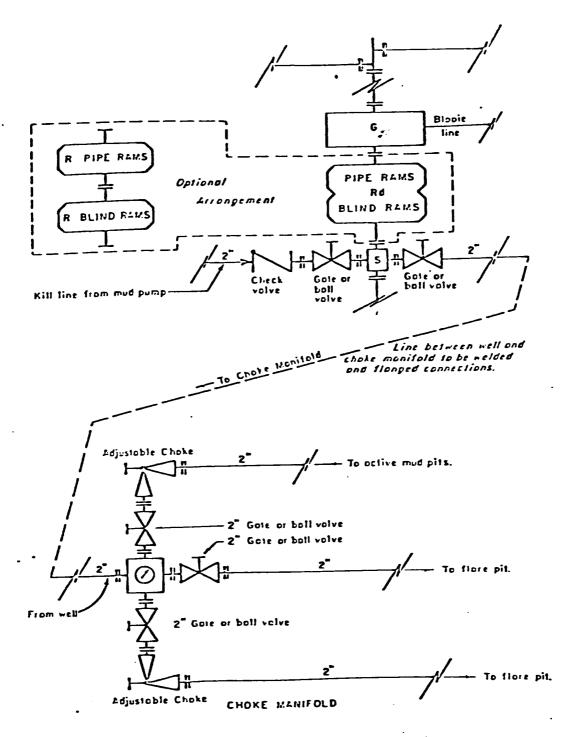
(See Attached Drilling Procedure.

- 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)

- No abnormal pressures, temperatures or potential hazards such as H<sub>2</sub>S 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 os noted.

- Double rom 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.
- Rotating head 150 psi working pressure minimum

### ARRANGEMENT C

TENNECO OIL COMPANY ROCKY MOUNTAIN DIVISION REQUIRED MINIMUM **BLOWOUT PREVENTER AN** CHOKE MANIFOLD 10-26-79 J. KAGILL

- 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.
- 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 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 terrace top with easterly drainage, alluvial surface deposits, and sandstone outcrops. Vegetation includes pinon, juniper, rabbitbrush, wolfberry, greasewood, 4 wing salt bush, mountain mahogany, snakeweed, sage, broadleaf yucca, brome, Indian ricegrass, galleta and other 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

