# SUBMIT IN TRIPLICATE. (Other instructions on reverse side)

# UNITED STATES

	approved Bureau	42-R1425

DEPARTMENT OF THE INTERIOR							30-039-22327	
	5. LEASE DESIGNATION AND SERIAL NO.							
A DDI ICA TIO		OGICAL SURV	EN OD D	OLLIG I	DACV	SF-079318  6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
	N FOR PERMIT	TO DRILL,	DEEP	EN, OR F	LUG	3ACK	-	
DR b. TYPE OF WELL	ILL 🖾	DEEPEN		PL	UG BA	ск 🗆	7. UNIT AGREEMENT NAME	
	AB OTHER			INGLE X	MULTIF ZONE	PLE .	S. FARM OR LEASE NAME	
2. NAME OF OPERATOR	0:1 0						Reames "A"	
	Oil Company						9. WELL NO.	
	Colorado Blvd.,		10. FIELD AND POOL, OR WILDCAT					
4. LOCATION OF WELL (R At surface	eport location clearly as	d in accordance wi	th any	State requireme	nts.*)		Basin Dakota	
At proposed prod. zor	•		11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA					
14. DISTANCE IN MILES	Unit le	tter X	T OFFIC				Séc. 24, T26N, R6W	
	es South East o		-				New Mexico	
10. DISTANCE FROM PROPO LOCATION TO NEARES: PHOPERTY OR LEASE I	16. N	16. NO. OF ACRES IN LEASE 17. NO.			of ACRES ASSIGNED HIS WELL  320.00			
(Also to nearest drig. unit line, if any)  18. DISTANCE FROM PROPOSED LOCATION®				480.00			RY OR CABLE TOOLS	
TO NEAREST WELL, D OR APPLIED FOR, ON TH		7500'				Rotary		
21. ELEVATIONS (Show wh 6722 GR	ether DF, RT, GR, etc.)		•	•			22. APPROX. DATE WORK WILL START* - ASAP	
23.		PROPOSED CASI	NG AN	D CEMENTING	PROGRA	AM		
SIZE OF HOLE	BIZE OF CASING	WEIGHT PER F	TOOT	SETTING D	EPTH	1	QUANTITY OF CEMENT	
12½"	8 5/8" New	24# K-55		± 350'		Circula	ate to surface	
7 7/8"	4½" new	10.5# 11.6	5#	± 7500'	<del></del>	Circul	ate to surface in two stag	
		l						
SEE ATTA	ACHED					•		
022	,							
. No	abnormal temp	eratures, pr	essu	re, or ged	ologic	hazard	s are expected · · .	
THE GAS	IS DEDICATED							
DEC	TIVED				THE REAL PROPERTY OF THE PARTY	C. Street Street, Stre		
RECEIVED							VE IVE	
MAR 1 4 1980  U. S. GEOLOGICAL SURVEY				1 1	**************************************	as in-man,	1 7 1980	
				APR 9.1980 MAR 1 (1900)				
FAR	MINGTON, N. M.			/ OII	L CON.	COM.	GEOLOGICAL SURVEY	
	•		•		DIST.	. 3 4.	DURANGO, COLO.	
	drill or deepen direction						uctive zone and proposed new productive d and true vertical depths. Give blowout	
24.			<del></del>					
BIGNED	Du Frun	can II	TLE	Staff Prod	luction	Analy	st March 7, 1980	
(This space for Fede	ral or State office use)		<del></del>					
				,				
PERMIT NO.			<del></del>	APPROVAL DATE	· <del></del>			
APPROVED BY		TI	TLE				APRROVED	
CONDITIONS OF APPROV	AL, IF ANY;							

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS" of 3.1

\*See Instructions On Reverse Side

#### OIL CONSERVATION DIVISION

#### STATE OF NEW MEXICO LIVERGY ALS MINERALS DEPARTMENT

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

Form C-102 Revised 10-1-7E

All distances must be from the cuter boundaries of the Section  $\mathbb{Z}_{F}$ erator Lease Well No. TENNECO OIL COMPANY REAMES "A" Section Township Fiange County 24 26N 6W Rio Arriba Actual Footage Location of Well: 1565 South feet from the line and feet from the line Ground Level Elev. Producing Formation Dedicated Acreage: 6722 Dakota Basin Dakota 320.00 1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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? If answer is "yes," type of consolidation \_\_ 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. CERTIFICATION RECEIVED SF 079318 i I hereby certify that the information con-TOC 4/9 tained herein is true and complete to the MAR 1 4 1980 0 best of my knowledge and belief. Conoco 4/19 U. S. GEOLOGICAL SURVEY EARMINGTON, N. M. EPNG 1/9 Staff Production Analyst Company Tenneco Oil Company Sec. March 7, 1980 24 I hereby certify that the en on this plat was plotted from field of actual suggest mode nderling Supervision, and that the same 18301 Chie of Chapter On the vledgerong telie. Date Surveyed Actored Projessional Engineer 1320 1650 1980 2310 2000 1500 1000 500

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

# DRILLING PROGRAM

DATE: November 19, 1979

LEASE: Reames A

WELL NO .: 1-E

LOCATION: 1665; FSL, 1850' FEL Sec. 24, T 26N, R 6W Rio Arriba County, New Mexico

FIELD: Jicarilla Dakota

ELEVATION:

6730' Est. G.L.

TOTAL DEPTH: 7500'

PROJECTED HORIZON Dakota

APPROVED BY: John 2006.

DK/ms

1st Rev.

# ESTIMATED FORMATION TOPS

(Water) **0**J0 2660 Pictured Cliffs (Gas) 3110 Cliffhouse (Gas) 3790 Menefee (Gas) 4810 Point Lookout 5400 (Gas) Gallup (Gas/0il) 6370 Greenhorn 7225 Dakota 7320 (Gas)

Surface Formation: San Jose

No abnormal temperatures or pressures are expected.

## DRILLING, CASING, AND CEMENT PROGRAM

- 1. Move in, rig up rotary tools.
- 2. Drill a 12 1/4" hole to + 350'.
- 3. Run 8 5/8", 24#/ft, K-55, ST&C casing to T.D.
- 4. Cement with Class "B" cement with 2% CaCl2. Circulate cement to surface.
- 5. Wait on cement a minimum of twelve hours. Nipple up blowout preventer and manifold with relief lines. Pressure test to 600 psi for 30 minutes. Test pipe and blind rams.
- 6. Drill a 7 7/8" hole to T.D.
- 7. Run open hole logs.
- 8. Run 4 1/2" casing to T.D. as per casing design.
- 9. Cement in two stages with sufficient volume to circulate cement to surface. Locate DV tool above Cliffhouse to prevent lost returns in Mesa Verde. Lead in first stage with light cement (pozmix, Halliburton lite, etc.). Tail in with sufficient volume of Class "B" cement to cover the Dakota. Circulate a minimum of four hours between stages. Lead in second stage with light cement Tail in with 50 sacks Class "B" neat.
- 10. Set slips, cut casing, and install well head.
- 11. MORT.
- 12. If well is non-productive, plug and abandon as per regulatory agency specifications.

#### CASING PROGRAM

Surface: 350' of 8 5/8", 24#, K-55, ST&C casing.

Production: 4 1/2", 10.5#, K-55, ST&C casing to 7,000'.

**4** 1/2", 11.6#, K-55, ST&C casing below 7,000'.

### MUD PROGRAM

0-350 Native solids. Have sufficient viscosity to gel chemical to clean hole and run casing.

350-T.D. Low solids. Gel chemical. 32 viscosity and 10-15 water loss down through the Mancos. Before reaching Gallup, add 6% LCM and run viscosity at 38-40 seconds. After penetrating Gallup, let LCM drop.

# **EVALUATION**

Cores and DST's: No cores or DST's are anticipated.

## Deviation Surveys:

- 1. Survey surface hole every 100'. Maximum allowable deviation at surface T.D. is 1°.
- 2. 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 total deviation change is 5°.

# Samples:

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No samples required.

### Logs:

GR/Induction
Densilog
Repeat formation tester possible in Gallup.

## BLOWOUT EQUIPMENT

10" 900-series, double ram hydraulic operated with closing unit and 40 gallon accumulator.

-4-

#### 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.

- 303-758-7130 (office) Don Barnes.
   303-758-7287 (office) Don Barnes' private line, Monday-Friday (before 7:45 a.m.)
- 2. 303-936-0704 (home) Don Barnes, weekends and holidays.

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3. 303-795-0221 (home) John Owen, if Don Barnes is not available.

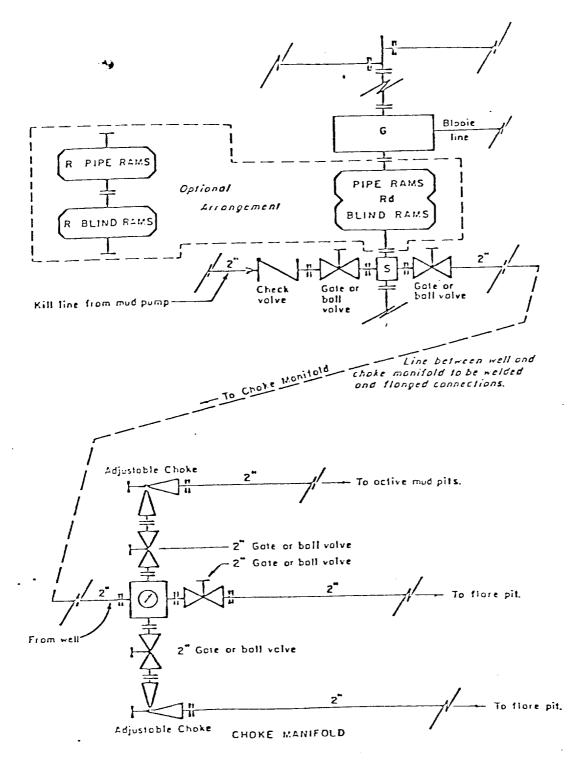
The yellow sheet of the IADC Report to be filled out completely, the original copy of the drilling time recorder, and copies of any invoices from this well, signed and received for Tenneco Oil Company will be mailed daily to:

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 303-936-0704
- 2. Mr. John Owen, Project Drilling Engineer 303-795-0221
- 3. Mr. Mike Lacey, Division Production Manager 303-979-0509



All equipment to be 3,000 psi working pressure except as noted.

- Rd Double ram 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 10-25-79 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 The site is located on Carte Mesa above Tapicito Creek.

  The surface is gently ralling with sourtherly drainage by sheet wash. The soil is sandy clay supporting sage and native grasses. The surface is held in public domain
- 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 Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

L. Freeman

Staff Production Analyst

#### TENNECO OIL COMPANY

## **CALCULATION SHEET**

RILLING WELL SITE LAYOUT REAL SEC 25, +26N, 26W DATE 3/7/80

