#### SUBMIT IN TRIPLICATE\*

Other instructions on reverse side:

Form approved. Budget Bureau No. 42-B1425.

UNITED STATES

DEPARTMENT OF THE INTERIOR					30-045-24738			
GEOLOGICAL SURVEY						SF 078095		
APPLICATION	N FOR PERMIT T			N, OR PLUG B	ACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
la. TYPE OF WORK	LL X	DEEPEN [		PLUG BAC		7. UNIT AGREEMENT NAME		
b. TYPE OF WELL	NS (==)		SIN	GLE MELTIPI	LE 🗀	E. FARM OF LEAST NAME		
WELL W	ELL X OTHER		203	NE X ZONE	<u> </u>	Case A		
	Oil Company					9. WELL NO.		
3. ADDRESS OF OPERATOR	<u> </u>			<u> </u>		3E		
P.O. Box	3249, Englewood	d, Colorado	8015	5		10. FIELD AND POOL, OR WILDCAT		
_ At surface	eport location clearly and	in accordance wit	h any St	ate requirements.		Basin Dakota		
) 820 F	NL, 600 FWL			RECEI	VED	11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA		
At proposed prod. zon	e as above			OCT 27	1000	Sec. 5, T31N, R11W		
	IND DIRECTION FROM NEAR	EST TOWN OB POS	OFFICE	00127	<del>1880</del> –	12. COUNTY OF PARISH: 13. STATE		
Approxim	ately 7 miles no	orth of Azt	ec, N	ew MexicoLOGICAL	SHOWN	San Juan N.M.		
15. DISTANCE PROM PROPO LOCATION TO NEAREST	SED*	<u> </u>	16. NO.	OF ACRES TO LINE ON,	WI MED T	OF ACRES ASSIGNED HIS WELL		
PROPERTY OR LEASE I	INE, FT. (	500'	1	900.14	<u> </u>	320 W/310, 23		
18. DISTANCE FROM FBOF TO NEAREST WELL, D OR APPLIED FOR, ON TH	OSED LOCATION® RILLING, COMPLETED,			±7855	_	20. BOTABY OR CABLE TOOLS ROTARY		
21. ELEVATIONS (Show wh					· · · · · · · · · · · · · · · · · · ·	22. APPROX. DATE WORK WILL START*		
		6555 <b>'</b> GR				Feb. 1981		
28.	P	ROPOSED CASIN	G AND	CEMENTING PROGRA	M			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER PO	TOO	SETTING DEPTH		QUANTITY OF CEMENT		
12 1/4"	9 5/8" new	36#		±250 <b>'</b>	Circul	late to surface		
8 3/4"	7" new	23#		±3805'		late to surface		
6 1/4" Daliino	4 1/2" new	11.6#, 10	.5#	±7855 <b>'</b>	Circul	late to liner top		
	LA FIE WITH	ATTACHED	·	100	ា ខែ ឈំ	jest to administrative		
See attache	721 133 60	······································		ရှိနှင့်နှင့်များ ရှိနှင့်နှင့်များ	aili t	9 30 CFR 2901		
The gas is	Fr Spr 118 Span o 16 s	o <del>r</del> a ji kuli da miliku s	1 · · · · · · · · · · · · · · · · · · ·	DISTRICT	9 198 F. SIMS ENGINE	O DECLE		
signify Signify	a. Misk	llj. gree jerinem	i G. to lei	Production Ana		October 20, 1980		
(Time space for Fen-	rul or State office use:							
PERMIT NO.	4			APPROVAL DATE				
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pwy 796 Holden 156 oh 3m

OIL CONSERVATION DIVISION

#### STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

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

Form C-107 kevised 10-1-78

		All distance	re must be from t	GSe	<u> </u>		Well No.
Operator	T 00//D1/17			CASE A			3E .
Unit Letter	TENNECO OIL COMPANY			Range		ınty	
D ·	ς .	31N		11W		San Juan	
Actual Footage Loc	stion of Well:				•		
820	feet from the	North	line and	600	feet from	the West	- line
Ground Level Elev.	Producing	Formation	Po				320-W/3/0.0
6555 -	Dako			Basin Dak			
1. Outline th	e acreage dedi	cated to the	subject well	by colored p	encil or had	chure marks on	the plat below.
2. If more th							thereof (both as to working
	•						-f -11 1
3. If more the	an one lease o	f different ow	nership is ded	licated to the	well, have	the interests	of all owners been consoli-
dated by c	ommunitization	, unitization,	force-pooling.	etc?			
<b>—</b>		44.		on solidation			·
☐ Yes	No I	answer 18	yes," type of c	OHBOHUACION			-
TF ======	in "no" liet ti	ne owners and	tract descrip	tions which l	nave actual	lly been consol	idated. (Use reverse side of
this form i	f necessary.)_	<u> </u>					
No allowal	hle will be assi	gned to the w	ell until all in	terests have	been cons	olidated (by co	ommunitization, unitization,
forced-noo	ling, or otherwi	se) or until a	non-standard u	nit, eliminati	ing such in	terests, has be	en approved by the Commis-
sion.	U.						
							CERTIFICATION
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						1 1	Sr. Production Analyst
	!			1		Company	
	. !			i			Tenneco Oil Company
	. i	-		1		Date	
	i	Sec.		ŀ			October 20, 1980
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	t	ì	5	i		B B	by certify that the well location
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	1			1			of actual surveys mode by me or my supervision, and that the same
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						13/2	mexico

# TENRECO DIL COMPANY ROCKY MOUNTAIN DIVISION PENTHOUSE, 720 SOUTH COLORADO BOULEVARD DENVER, COLORADO 80222

### DRILLING PROCEDURE

DATE:	August	27,	1980
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LEASE: Case

WELL NO.: A-3E

FIELD: Basin Dakota

LOCATION: 820 FNL, 600 FWL

Sec. 5, T31N, R11W

San Juan County, New Mexico

ELEVATION: 6555

TOTAL DEPTH: 7855

PROJECTED HORIZON: Dakota

SUBMITTED	BY:	George Trussell	DATE:	August 27, 1980
APPROVED B	Y:	Bund	DATE:	4/25/100

CC: Administration DSB Well File Field File

## ESTIMATED FORMATION TOPS

Ojo		
Fruitland		
Pictured Cliffs	3185	Gas
Lewis	3305	Shale
Cliff House	4705	Gas
Menefee	4995	Gas/Water
Point Lookout	5455	Gas
Mancos	5745	Shale
Gallup	6595	0il/Water
Greenhorn	<b>74</b> 95	
Dakota	7595	Gas
T.D.	<b>7</b> 855	

## DRILLING, CASING AND CEMENTING PROGRAM.

- 1. MIRURT
- 2. Drill a 12½" Hole to  $\pm$  250 with Sal-Mater Mud.
- 3. RU and run 9 5/8" 36# K-55 ST&C casing to TD. Cement with Class E + 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 3840'. Hud 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 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, 45 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, LODP and MORT.
- 12. Install tree and fence reserve pit.
- 13. If non-productive, P & A as required by the USGS.

## Casing Program

Interval	<u>Length</u>	Size	<u>Weight</u>	Grade	Coupling
0-250	250	<del>9 5/</del> 8	<del>3</del> 6#	K-55	SIC:
0-3840	<b>3</b> 840	7	<b>2</b> 3#	K-55	STC
7000-7880	<b>8</b> 80	4 1/2	$11.6\frac{L}{\pi}$	K-55	STC
3690-7000	3310	4 1/2	10.5#	K-55	STC

#### M.J. 20018NI

**0-250** Spud mud.

250-3840 Low solid, fresh water out. (Water and Denex.) Mud up prior to running casing.

3840-TD Gas.

#### EMPLUATION

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, whethever is first. This may entail running the TOTCO on wireline. Record each survey on the IABO 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

# ELONDIT 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.

- 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.
- 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

#### TENNECO OIL COMPANY - 10 POINT PLAN

- 1. The geological name of the surface formation: Nacimiento
- 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).

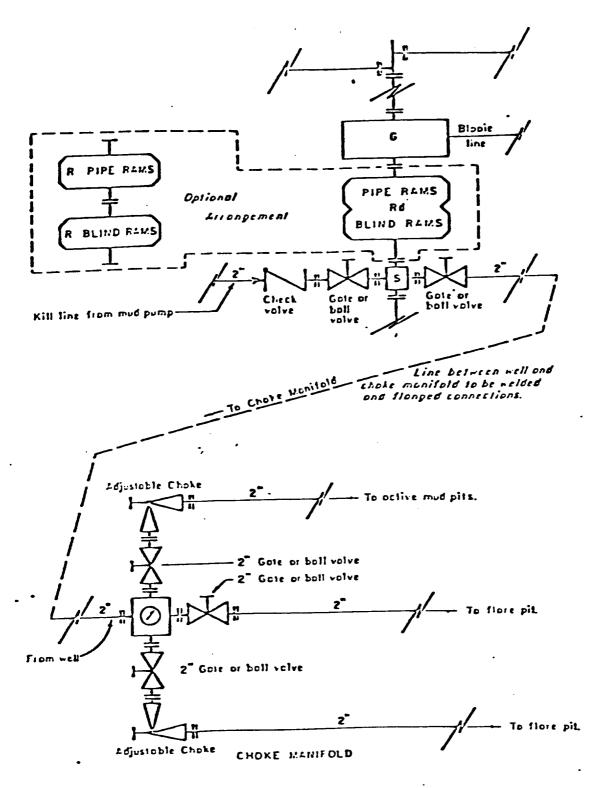
(See Attached Drilling Procedure.

- 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 H<sub>2</sub>S are expected to be encountered.
- 10. The drilling of this well will start approximately (Feb. 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 com type preventer with two sets of roms.
- R Single rom type preventer with one set of roms.
- S Dritting 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 10-22-79 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.

- g. 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 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 Area consists of gently rolling hills with southwesterly drainage. Vegetation includes mountain mahogany, mormon tea, pinon pine, juniper, snakeweed and other native plants and 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

