SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

UNITED STATES

•	Form approved. Budget Bureau No. 42-R142
	31-045-248/1

	DELAKTMENT	OF THE IN	IIEKI	UK		1		IGNATION A		
		ICAL SURVE		•		1	NOOC-	14-20-3	3625	
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	FOR PERMIT IN	J DRILL, D	LLI LI	Y, OK TEO	<u> </u>			H NON I		
DRIL	L 🗵	DEEPEN [] .	PLUG	BACK		7. UNIT AGRE	EMENT NA	ME	
TYPE OF WELL			SING		ULTIPLE ONE		S. FARM OR I	LEASE NAMI	C	
WELL M	OTHER		BUN	<u> </u>	, N. B.	_	Navaj	o Napie	е	
NAME OF OPERATOR						t	9. WELL NO.			
Tenneco Oil Co	ompany						#1			
	, Englewood, Col	lorado 801	55			Ī	10. FIELD AN	D POOL, OR	WILDCAT	
P.O. BOX 3249	port location clearly and i	n accordance with	any St	te requirements.*	')		Galle	gos Gai	llup	
	SL, 1840 FEL						11. SEC., T., I	R., M., OR BI	LK.	
									30	
At proposed prod. some same									6N, R12	W
DISTANCE IN MILES A	ND DIRECTION FROM NEAR	EST TOWN OR POST	OFFICE'				12. COUNTY O	1		
	4 miles WNW of		ading	Post			San J	1	N.M.	
DISTANCE FROM PROPU	SED*	1	16. NO.	OF ACKES IN LEA	SE 17	7. NO. 0 TO T I	F ACRES ASSI			
LOCATION TO NEAREST PROPERTY OR LEASE LI (Also to nearest drig	INE. PT.	790'	ı	160			118 (1) 80			
PARTITION PROPERTY	OSED LOCATION®		19. PRO	POSED DEPTH	20		TARY OR CABLE TOOLS			
TO NEAREST WELL, DE OR APPLIED POR, ON THE	RILLING, COMPLETED,			±5197 '			Rotary		RE WILL ST	D m *
ELEVATIONS (Show whe	ther DF, RT, GR, etc.)	71 ' GR						1, 19		A.
	P	ROPOSED CASIN	NG AND	CEMENTING P	ROGRAM					
	SIZE OF CASING	WEIGHT PER FO		SETTING DEPT					· •	
RIZE OF MOLE	BIZE OF CASING	W PIGUI LEW L	TOO		'H		QUANTIT	1 OF CESIES		
BIZE OF HOLE		36		±300		ircu]	QUANTIT Late to s			
12 1/4" 7 7/8"	9 5/8" new 5 1/2" new to administrative		#					surface	<u> </u>	
12 1/4" 7 7/8"	9 5/8" new 5 1/2" new to administrative CFR 290.	36	#	±300	APP AS AI	ement	VED	surface	<u> </u>	
12 1/4" 7 7/8" This action is subject appeal pursuant to 30 See Attached. The gas is described as a subject appear of the gas is described as a subject at the	9 5/8" new 5 1/2" new to administrative CFR 290. edicated.	36 15,	# 5# JAN SON	±300 ±5197	APP JAME DISTRIC	RON MEN N 2 3 ES F.	VED UDED 1981 SIMS GINEER	stages	ed new prod	uett
12 1/4" 7 7/8" This action is subject appeal pursuant to 30 See Attached. The gas is described as a second of the proposal is to reventer program, if a signer.	9 5/8" new 5 1/2" new to administrative CFR 290. edicated. AUTHORIZED ARE MCE WITH ATTACHED JENTS" DE PROPOSED PROGRAM: If drill or deepen direction PARE A.	proposal is to deally, give pertines	# 5#	±300 ±5197	APP JAME DISTRIC	RON MEN Ses F. CT EN	VED NOFD 1981 SIMS GINEER	stages stages and proposertical dept	ed new prod	
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*See Instructions On Reverse Side

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OIL CONSERVATION DIVISION

Form C-107

FORM 24-11

P. O. BOX 2088 STATE OF NEW MEXICO SANTA FE, NEW MEXICO 87501 RGY AID MINERALS DEPARTMENT All distances must be from the cuter boundaries of the Section. Well No. Operator NAVAJO-NAPIE TENNECO OIL COMPANY County Range Township Section Unit Letter San Juan 12W 26N 14 Actual Footage Location of Wells 1840 line and South feet from the 790 Producing Formation Ground Level Elev: Acres GALLUP 6171 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 _ ☐ No ີ Yes 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 I hereby certify that the information contained herein is true and complete to the R. A. Mishler Sr. Production Analyst Tenneco Oil Company January 19, 1981 Sec. I hereby certify that the well location 11 shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the be knowledge and belief.

1840

2002

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



FIELD: GALLEGOS CANYON

DRILLING PROCEDURE

DATE:	DEC	23,	1980
		,	

LEASE: NAVAJO NAPIE

WELL NO .: 1

LOCATION: 790 FSL 1840 FEL

哲 SEC 14, T26N, P12W

SAN JUAN CO, NM

ELEVATION: 6171

TOTAL DEPTH: 5197'

PROJECTED HORIZON: GALLUP

SUBMITTED BY: DJ KARDASH	DATE: DEC 23,80
APPROVED BY:	DATE:

CC: Administration DSB Well File Field File

ESTIMATED FORMATION TOPS

Ojo	297	NATER
Fruitland	1057	- GAS - WATER
Pictured Cliffs	1327	WATER
Lewis	1462	
Cliff House	2127	WATER
Menefee	2397	''
Point Lookout	3792	11
Mancos	4014	
Gallup	4852	OIL & GAS
Greenhorn.		
<u>Dakota</u>		
T.D.	5197	

DRILLING, CASING AND CEMENTING PROGRAM

- MIRURT
- 2. Drill a 124" Hole to ± 300 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 a 7 7/8" Bit to T.D. Log open hole as directed by G.E. Department.
- 5/2 15.5 6. Run $\frac{5}{2}$ 11.6 and 10.50# K-55 ST&C as designed...
- 7. Cement in two stages with sufficient volume to circulate cement to surface. Locate DV tool + 250' 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.
- 8. Circulate out excess cement, LDDP and MORT.
- 9. Install tree and fence reserve pit.
- 10. If non-productive, P & A as required by the USGS.

	•	Casing Pro	ogram_		
Interval 0-300	Length 700	<u>Size</u> 9 5/8	Weight 36#	Grade K-55	Coupling STC
0-5197	5197	4 1/2 41/2 5½	11.6# -10.5# 15.50	K -55 K-55	-STC- STC

MUD PROGRAM

- 0-300 Native solids. Have sufficient viscosity to gel chemical to clean hole and run casing.
- O-TD 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: None.

Deviation Surveys:

- 1. Survey surface hole at 100' intervals. Maximum allowable deviation at 500' is $1-1/2^{\circ}$.
- 2. From surface to toal depth, deviation surveys must be taken every 500' or each trip, whichever is first. The 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 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 cost, deviation surveys, and other pertinent information to be called into Division Office by 7:30 A.M. Monday thru Friday.

TENNECO OIL COMPANY
P.O. BOX 3249
ENGLEWOOD, COLORADO 80155
PHONE: 303-740-4800

Office Directory

Don S. Barnes	740-4814
John W. Owen	740-4810
Tom Dunning	740-4813
Jack Magill	740-4802
Dale Kardash	740-4809

In case of emergency or after hours call the following in the preferred order.

(1)	Don S. Barnes Division Drilling Engineer	740-4814 936-0704	
(2)	John W. Owen Project Drilling Engineer	740-4810 795-0221	
(3)	Mike Lacev	797-2651	Home

(3) Mike Lacey
Division Production Manager

TENNECO OIL COMPANY - 10 POINT PLAN

1.

2 & 3.

The geological name of the surface formation: Maccemento
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.
- (Sufficient quantity of mud and weight material will be available Mud Program: 6. on location).

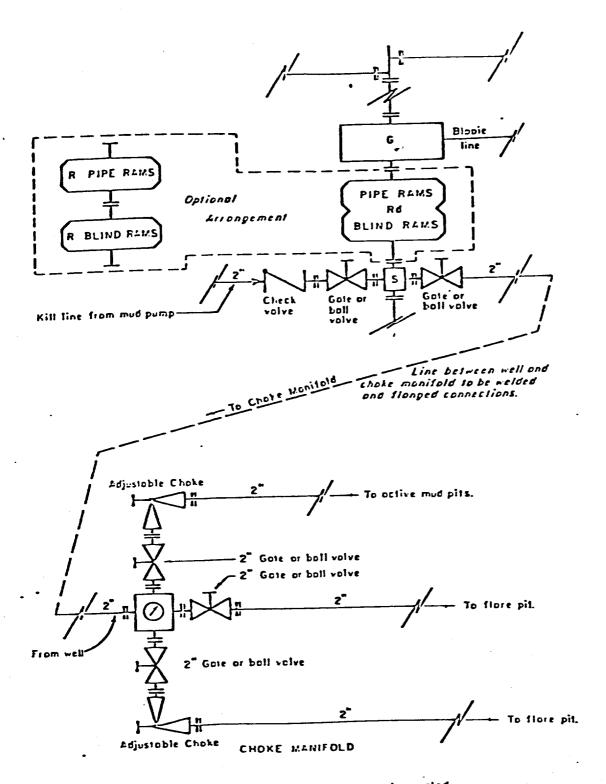
(See Attached Drilling Procedure.

- Auxiliary Equipment: 7.
 - 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.
 - 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 HoS are ex-9. pected to be encountered.
- The drilling of this well will start approximately for 10 to 12 days 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 as noted.

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

ARRANGEMENT C

TENNECO OIL COMPANY ROCKY MOUNTAIN DIVISION REQUIRED MINIMUM BLOWOUT PREVENTER AN CHOKE MANIFOLD J. MAGILL 10-26-78

- 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.
- 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 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.

- Ancillary Facilities No camps or airstrips will be associated with this project.
- Please refer to the attached Plat No. 1.
- 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.
- Drainage is to the east. Location consists of gently rolling hills. Soil is sandy clay. Vegetation includes sage, rabbit-Other Information brush, snakeweed, galleta, alkalai soccotone and other native plants and grasses.
- Operator's Representative See drilling prognosis.
- 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 per-Company and its contractors and sub-contractors in conformity with this plan and the Tenneco 011 terms and conditions under which it is approved.

Sr. Production Analyst

