SUBMIT IN TRIPLICATE.

Form approved. Budget Bureau No. 42-R1425.

30-045-24295

(Other instructions on reverse side)

UNITED STATES

DEPARTMENT OF THE INTERIOR							5. LEASE DESIGNATION AND SERIAL NO.		
	GEOLOG	ICAL SURV	EY				NM 0468126		
APPLICATION	N FOR PERMIT T	O DRILL, I	DEEPEN	, OR P	LUG E	BACK	6. IF INDIAN, ALLOTTEE (R TRIBE NAME	
1a. TYPE OF WORK	LL XXX	DEEPEN I	7	PI I	JG BA	CK 🗆	7. UNIT AGREEMENT NAI	4 E	
b. TYPE OF WELL	LL L	DECI LIA	_		יאם טאי				
OIL O	ELL XXX OTHER		SINGL ZONE	™ X X X	MULTIP ZONE	LE	8. FARM OR LEASE NAME		
2. NAME OF OPERATOR	ELLI AZA OTHER						Callow	-	
Tenneco Oil O	Company						9. WELL NO.		
3. ADDRESS OF OPERATOR	somparry	· · · · · · · · · · · · · · · · · · ·					92 11 E		
720 S. Colora	ado Blvd., Denve	r. CO 80:	222				10. FIELD AND POOL, OR	WILDCAT	
4. LOCATION OF WELL (R	eport location clearly and	n accordance wi		requiremen	nts.*)		Basin Dakota	<i>t</i> •	
At surface	AOI TOTAT						11. SEC., T., R., M., OR BL	K.	
1620' FSL, 94					•		AND SURVEY OR ARE. Sec. 28, T29N		
At proposed prod. zon	le						Sec. 20, 129N	, KISW	
14. DISTANCE IN MILES	AND DIRECTION FROM NEAR	EST TOWN OR POS	T OFFICE*	·			12. COUNTY OR PARISH	13. STATE	
							San Juan	· NM	
10. DISTANCE FROM PROPE	n of Farmington		16. NO. OI	ACRES IN	LEASE	1 17, NO. 0	F ACRES ASSIGNED	INFI	
LOCATION TO NEAREST PROPERTY OR LEASE L	r			00.0		1.	HIS WELL		
(Also to nearest drig	g. unit line, if any)						20. ROTARY OR CABLE TOOLS		
18. DISTANCE FROM PROP TO NEAREST WELL, D	RILLING, COMPLETED,		19. PROPO					e ',	
OR APPLIED FOR, ON THE			6400	0.00	·	Rot	ary	· · · · · · · · · · · · · · · · · · ·	
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)					1	22. APPROX. DATE WORL	WILL START	
5818 GR						<u> </u>	ASAP .		
23.	Pl	ROPOSED CASI	NG AND CI	EMENTING	PROGR	AM		e ()	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F		SETTING D	EPTH	·	QUANTITY OF CEMENT		
124"	8 5/8" new	24# K-5		300'		Circul	late to surface		
7 7/8"	4½" new	10.5 K-	55	6400 '		cement	in 2 stages	<u> </u>	
						circul	late to surface		
	1								
SEE ATTACHED				•					
									
No abnormal t	temperatures, pre	essures or	geolog:	ic haza	rds ar	e exped	cted.	i jäten. Negenaturi kan	
	•		,			•		· •	
If well is no	on-productive plu	ig and abai	ndon pe	r USGS/	BLM re	gulatio	ons.	•	
	er	. •					Lety William	ing Andrews No. 45	
			1						
						/B	William on 1		
THE GAS IS DE	EDICATED.		;	•		- N	APR 18 1980 OIL OIST. 3		
		g. 4, 57					OW.		
	E 600					. (API, ON.		
•	in participation of the partic			1.		/,	مال ماقتر،	April 17	
						`	O. A.	: ·.	
	•				the state of				
IN ABOVE SPACE DESCRIBE	E PROPOSED PROGRAM: If p	ronosal is to dee	nen or plug	back, give	data on p	resent prod	uctive zone and proposed	new productive	
	drill or deepen directional								
preventer program, if an	۱۶.								
									
24.	2011								
SIGNED	Solden ma	т.	TLE STA	FF PROD	UCTION	I ANALYS	ST DATE January	14, 1980	
SIGNED M. L.	REEMAN duma	т.	TLE STA	FF PROD	UCTION	I ANALYS	ST DATE January	14, 1980	
SIGNED M. L.	PREEMAN ALL MARCHARITATION State office use)	т.	TLE STA	FF PROD	UCTION	I ANALYS	ST DATE January	14, 1980	
SIGNED M. L. I	REEMIN ALL MARCHARINA PROPERTY OF State office use)	TI TI				I ANALYS	ST DATE January	14, 1980	
SIGNED M. L.	REEMAN ALL MA	TI TI		FF PROD		I ANALYS	APPROVE	14, 1980	

O ASSESSION CHEM DOWN AND MUNICIPED ARE SUBJECT TO COMPLIANCE WITH ATTACHED *See Instructions On Reverse Side "GENERAL REQUIREMENTS"

DISTRIC' ENGINEER

CONDITIONS OF APPROVAL, IF ANY:

P. O. BOX 2088 MERGY AS MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501

•		All distances must	le from the cuter hounds	ire of the Section	
perator			Lease		Well No.
TEIMECO O	IL COMPANY		CALLOW		9 11 E
Init Letter	Section	Township	Range	County	
L	28 -	29N	13W	San J	uan
Actual Footage La	ocation of Well:				
1620	feet from the	South	md 940	W	est na
Fround Level Elev		line	Pool	feet from the	11116
58i8	Dakot		Basin Dakot		Dedicated Acreage:
				·····	320.00 _{Acres}
2. If more to interest a3. If more th	than one lease in and royalty).	is dedicated to the	well, outline each an	nd identify the owne	es on the plat below. The rest of all owners been consoli-
Yes If answer this form	No If is "no;" list the if necessary.)ble will be assign	answer is "yes," ty	pe of consolidation _ lescriptions which he lall interests have b	een consolidated (onsolidated. (Use reverse side of by communitization, unitization, s been approved by the Commis-
sion.					CERTIFICATION
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	i	28		3/45	tily that the well location
	USA NA	1 - 0468126	1	3 5/7. A	A Marie Toler
	TOC -	7/0			pan on this plat was plotted from field
	100 -	′′°		E	tes of verbal surveys made by me or
940	Big Ch	nief Drilling Co.	- 1/8	4 €] , ő	deray suppliesion and that the same
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TENNECO OIL COMPANY

PROGNOSIS TO DRILL AND COMPLETE

DIVISION: Rocky Mountain DATE: September 13, 1979

LEASE: Callow WELL NO.: 9-E

LOCATION: 1620' FSL, 940' FWL FIELD: Basin Dakota

Sec. 28, T 29N, R 13W

San Juan County, New Mexico

ESTIMATED ELEVATION: 5810'

ESTIMATED TOTAL DEPTH: 64.00'

PROJECTED HORIZON: Dakota

DRILLING, CASING AND CEMENT PROGRAM:

(1) MIRURT.

- (2) Drill 12 1/4" hole to + 300'. Run 8 5/8" O.D. 24# K-55 ST&C casing to 300'. Cement with sufficient volume to circulate cement to surface.
- (3) WOC minimum of 12 hours. Nipple up BOE. Test BOP, blind and pipe rams, casing and manifold to 600 psi prior to drilling out for 1/2 hour.
- (4) Drill 7 7/8" hole to T.D.
- (5) Run open hole logs as required.
- (6) Run 4 1/2", 10.5#, K-55 ST&C casing. Cement in 2 stages with stage collar + 4200'.
- (7) Cement first stage with sufficient volume to raise cement to stage tool. Circulate and WOC 4 hours between stages. Cement 2nd stage with sufficient volume to circulate to surface.
- (8) Set casing slips, cut off 4 1/2" casing. Nipple up well head.
- (9) RD. MORT.

ESTIMATED FORMATION TOPS	SUIFACE	~ 0,0	Alamo		
OJÓ	180'	Water	•		
Pictured Cliffs	1570'	Gas	Mancos	4130'	
Lewis	1750'	Gas	Gallup .	5250'	Oil/Gas
Cliffhouse	3120'	Gas	Greenhorn	6040'	
Menefee	3230 '	Gas	Dakota	4140'	Gas
Point Lookout	4020'	Gas	TD	6400'	

DRILLING MUD PROGRAM:

0 - 250' Native Solids. V/C WL. Use sufficient Viscosity to clean hole and run casing.

250' - TD Low Solids. 15 cc WL. Use sufficient viscosity to clean hole. Log and run casing.

CORING AND TESTING PROGRAM:

NONE

DEVIATION SURVEYS:

- 1. Survey surface hole at 100' intervals. Maximum allowable deviation at
- 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 AAODC Drilling Report Sheet. Maximum allowable change in deviation is 1° per 100'.

SAMPLES:

Surface to 5800' 30' samples 5800' to T.D. 10' samples

WELL SURVEYS:

Majority of logs will be cased hole. GR-Neutron, or TDT. A few will be open hole GR-Induction.

BOP: 10" 900 Series Hydraulic operated with complete shut off and pipe rams.

PREVENTORS MUST BE CHECKED FOR OPERATION EVERY 24 HOURS, AND THE CHECK MUST BE RE-CORDED ON THE AAODC 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 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 not available

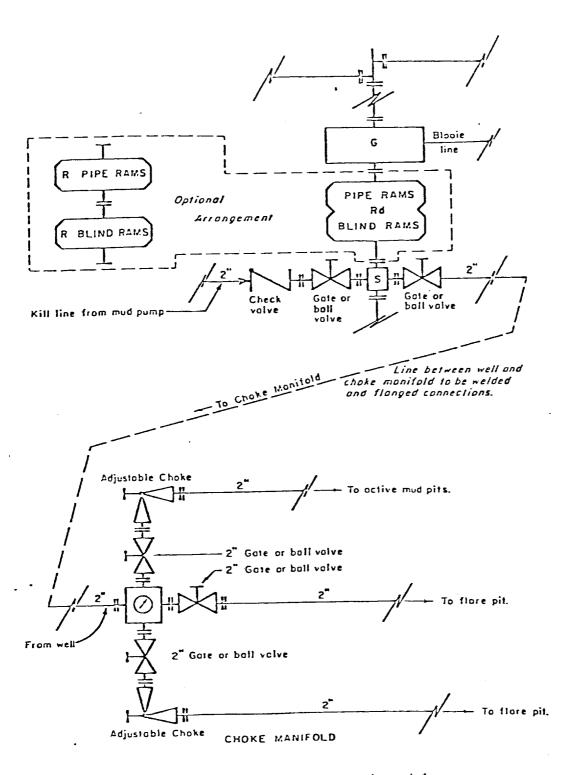
The yellow sheet of the IADC Report to be filled out completely, the original copy of the drilling time recorder, and copies of any invoices from this well signed and received for Tenneco Oil Company will be mailed daily to:

TENNECO OIL COMPANY
PENTHOUSE
720 SOUTH COLORADO BOULEVARD
DENVER, COLORADO 80222

ATTENTION: DRILLING DEPARTMENT

In case of an 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 rams.
- R Single ram type preventer with one set of rams.
- 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 10-26-79 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.
- 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.
- 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 proposed site is located atop the bluffs on the South side of the San Juan 4 mile East of Hwy. 371. The soil is sandy loam supporting juniper snakeweed, rabbit brush, and narrow leaf yucca. The surface and minerals are federally owned.
- 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 CALLOW 9E

1620 FSL 940 FWL SEC 28, T29N, 13W DATE 1-19-80

NO NEW ROAD CONSTRUCTION

