SUBMIT IN TRIPLICATE. (Other instructions on reverse side)

Form approved, Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

	30	2-045	-24287
5.	LEASE	DESIGNATION	AND STRIAL NO.
		0468126	
6.	IF IND	IAN. ALLOTTE	OR TRIBE NAME

APPLICATIO	N FOR F	PERMIT	TO DRILL,	DEEPEN.	OR P	LUG E	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
. TIPE OF WORK	-							7 1111
	RILL XXX		DEEPEN		PLU	UG BA	CK ∐	7. UNIT AGREEMENT NAME
OIL C	GAS WELL XXX	OTHER		BINGLI	KX	MULTIF	re [S. FARM OR LEASE NAME
NAME OF OPERATOR	WELL TELL	OTHER		ZONE		ZONE		Callow "A"
m - 0'1	~							9. WELL NO.
Tenneco Oil	_Company_	 						1E
720 S. Color	rado Blvd	. Denve	er. CO 80	222			•	10. FIELD AND POOL, OR WILDCAT
LOCATION OF WELL (Report locatio	n clearly and	d in accordance wi	th any State	requiremen	nts.*)		Basin Dakota
At surface	11001 557							11. SEC., T., R., M., OR BLK.
1120 FSL, I					*			AND SURVEY OR AREA
					•			Sec. 27, T29N, R13W
. DISTANCE IN MILES			REST TOWN OR POS	T OFFICE*				12. COUNTY OR PARISH 13. STATE
2 miles Sout		mington						San Juan NM
DISTANCE FROM PROLOCATION TO NEARE	ST			16. NO. OF		LEASE	17. NO. C	OF ACRES ASSIGNED HIS WELL
PROPERTY OR LEASE (Also to nearest dr	rlg, unit line, i			1560 .00 h		$W^{3.20}$	1.00	
B. DISTANCE FROM PRO TO NEAREST WELL,	DRILLING, COM	PLETED,		19. PROPOS			1 .	RY OR CABLE TOOLS
OR APPLIED FOR, ON T			· · · · · · · · · · · · · · · · · · ·	5900) 		Rot	cary
. elevations (Show w 5375 GR	netner DF, KT,	, GR, etc.)					, ;	22. APPROX. DATE WORK WILL START
3373 GK								ASAP
-	· · · · · · · · · · · · · · · · · · ·]	PROPOSED CASI	NG AND CE	MENTING	PROGRA	M	
SIZE OF HOLE		CASING	WEIGHT PER F		SETTING D	EPTH		QUANTITY OF CEMENT
124"	8 5/8"		24# K-55		300'		· [————	late to surface
7 7/8"	4½"	new	10.5 K-55	<u>-5</u>	900'			in 2 stages
SEE ATTACHED)					rds ar	Circul	ate to surface
	temperat	ures, pr	ressures or	geologi	c haza		Circul	ate to surface
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OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

Form C-107 CO 87501 Revised 10-1-78

All distances must be from the autority of the court of the first

Operator			Lease		The Section.	_	
-,	IL COMPANY		1	LOW "A"			Well No.
Unit Letter	Section -	Township	Rom		County		1-E
M	27	29N		13W	San	Juan	
Actual Footage Lo		_		_			
1120 Ground Level Elev.			ine and 110	<u>00</u>	eet from the	West	line
5375	Dakot		Pool	in Dakota			Dedicated Acreage:
						1	W 320.00 Acres
1. Outline th	he acreage dedica	ted to the subj	ect well by co	norea pencii	or hachure	marks on th	he 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?							
Yes	No If a	nswer is "yes,"	type of consol	idation			
76	t. 66			. 1 * . 1 1		•••	1 /77
II answer	if necessary.)	owners and trac	t descriptions	which have	actually bee	n consolid	ated. (Use reverse side of
		ed to the well u	ntil all interes	ts have been	consolidate	ed (by com	munitization, unitization,
forced-poo	oling, or otherwise)	or until a non-s	tandard unit, e	liminating si	ach interests	s, has been	approved by the Commis-
sion.	J .			Ü		,	approved by the commo
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	AMOCO	- 100%		1		I hereby	certify that the information con-
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Big Chief	Drilling Co.	- 1/8	FARMI	NGTON, N. M.		Company	Oil Company
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TENNECO OIL COMPANY

PROGNOSIS TO DRILL AND COMPLETE

DIVISION: Rocky Mountain DATE: September 13, 1979

LEASE: Callow "A" WELL NO.: 1-E

LOCATION: 1120' FSL, 1100' FWL FIELD: Basin Dakota

ISEC. 27, T 29N, R 13W

San Juan County, New Mexico

ESTIMATED ELEVATION: 5360'

ESTIMATED TOTAL DEPTH: 5900'

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 + 4100'.
- (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:	Surta	ce - Kiztland	Shalf	
OJO	210'	Water	3	
Pictured Cliffs	1150'	Gas	Mancos	3920 '
Lewis	1320'		Gallup .	4840 Gas/Oil
Cliffhouse	2730'	Gas	Greenhorn	5620'
Menefee	2770'	Gas	Dakota	5710 Gas
Point Lookout	3600 '	Gas	TD	5900 '

DRILLING MUD PROGRAM:

0 - 250' Native solids. NC-WL, use sufficient viscosity to clean hole and run casing.

250 - T.D. Low solids. 15 cc WL, 9.0#/gal. Use sufficient viscosity to clean hole.

:

CORING AND TESTING PROGRAM:

NONE ANTICIPATED.

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:

0 - 5400' 30' Samples 5400' - TD 10' Samples

WELL SURVEYS:

Majority of logs will be cased hole. GR Neutron on TDT logs.

Open hole logs will be GR induction.

BOP: 10" 900 series Double Ram Hydraulic with complete shut off and pipe rams.

PREVENTORS MUST BE CHECKED FOR OPERATION EVERY 24 HOURS, AND THE CHECK MUST BE RECORDED 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

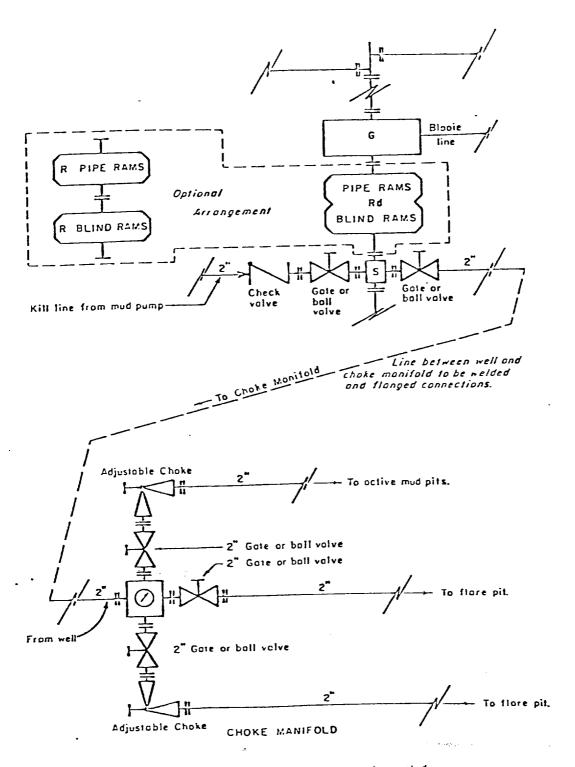
The yellow sheet of the IADC Report to be filled out completely, the original copy of the drilling time recorder, and copies of any invoices from this well signed and received for Tenneco Oil Company will be mailed daily to:

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 os noted.

- Rd Double rom 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 10-25-70 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 proposed site is located in a box canyon on the south side of the San Juan River. The site is adjacent to an existing road. The soil is sandy fractured sandstone. The surface is privately owned with Federal minerals. The principal vegetation is pinon, juniper and native grasses.
- 12. Operator's Representative -

SEE DRILLING PROGNOSIS

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

	EXHIBIT
RILLING WELL SITE LAYOUT CALOW A" LE	
120 FSL HOOFWL SEC 27, T29K, RI3W	DATE 1/11/80
1. NO NEW ROAD	7.189

2. Divert WASH OR Diversion Ditch on west side AND Empty to South East.

