## SUBMIT IN TRIPLICATE.

(Other instructions on reverse side)

	Budget	Burea	ed. u N	lo.	42-R14	25
30	-04	5-	*7	4	0/4	,

UNITE	: U:	SIAIE	-5
DEPARTMENT	OF	THE	INTERIOR

	DEPARTMEN	II OF THE	INIE	RIOR		5. LEASE DESIGNATIO	N AND SERIAL NO.
GEOLOGICAL SURVEY						SF078116	
APPLICATIO	N FOR PERMIT	TO DRILL,	DEEP	EN, OR PLUG	BACK	6. IF INDIAN, ALLOTT	EE OR TRIBE NAME
1a. TYPE OF WORK					<del></del>		
	RILL 🔀	DEEPEN		PLUG BA	CK 🗌	7. UNIT AGREEMENT	NAME
	CAS		8	INGLE MULTI	Prat [	4,5	
2. NAME OF OPERATOR	WELL X OTHER			ONE ZONE		8. FARM OR LEASE N	AME
	COMPANY					FLORANCE	
TENNECO OIL  3. ADDRESS OF OPERATOR						9. WELL NO.	
*		. 7 . 5		·		121	
4. LOCATION OF WELL (	olorado Bouleva Report location clearly an	rd, Denver,	CO10	State requirements.*)		10. FIELD AND POOL,	
At surface				,		Basin Dal	
PAt proposed prod. zo	960 FSL	1105 FEL		_		AND SURVEY OR	BEA.
14. DISTANCE IN MILES	AND DIRECTION FROM NE	APPOR TOWN OR DO	-			Sec. 24, T3	
9.3 miles E	ast SE of Aztec	, New Mexic	orric			12. COUNTY OF PARIS	i
15. DISTANCE FROM PROI	Price n •		1 10 =			San Juan	New Mexico
LOCATION TO NEARES PROPERTY OR LEASE	ST		16. N	O. OF ACRES IN LEASE		F ACRES ASSIGNED HIS WELL	
(Also to nearest dr	lg. unit line, if any)			5.32	E/319	15,32	
<ol> <li>DISTANCE FROM PRO TO NEAREST WELL,</li> </ol>	DRILLING, COMPLETED.		19. F	ROPOSED DEPTH	20. ROTAL	RY OR CABLE TOOLS	
OR APPLIED FOR, ON THE			<u> </u>	7,665	<u>                                     </u>	Rotary	
ZI. ELEVATIONS (Show w	hether DF, RT, GR, etc.)					22. APPROX. DATE W	ORK WILL START*
23.		6322 GR				ASAP	
23.		PROPOSED CASI	NG ANI	CEMENTING PROGR	AM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	тоот	SETTING DEPTH	Ī	QUANTITY OF CEMI	NT
13 3/4"	9 5/8" New	36# K55		300 ±	Circul	late through s	urface
8 3/4"	7" New	23# K55		3000 <u>+</u>	Circul	late through s	urface
6 <sup>1</sup> ⁄ <sub>4</sub> "	4½" New	10.5# 11	.6#	7,665 ±		late through 1	
						RECEIV	/ED
				CTIPE OF	<b>5</b> 0 1	U. S. GEOLOG	ICAL SURVEY
Gas is D	Dedicated			NOV 28 197 OIL CON. CON. CON. CON. CON. CON. CON. CON.	W.	U. FARMING	- Comments
N ABOVE SPACE DESCRIBE one. If proposal is to reventer program, if an 4.	E PROPOSED PROGRAM: If drill or deepen directions y.	proposal is to deep ally, give pertinent	oen or p data o	lug back give data on p n subsurfactions of	resent produ d measured	ctive zone and propose and true vertical dept	ed new productive
signed	Soleuma	M TIT	LE St	aff Production	Analvs+	DATE 11-20	<b>-</b> 79
	Leeman						

(This space for Federal or State office use) PERMIT NO. \_\_\_

DATE \_

CONDITIONS OF APPROVAL, IF ANY: oh 3mh

\*See Instructions On Reverse Side

**NMOCC** 

TITLE \_

APPROVED BY \_\_

# STATE OF NEW MEXICO

## OIL CONSERVATION DIVISION

## P. O. BOX 2088

ENERGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501

Form C-102 kevised 10-1-78

16			·····	the cuter houndard	of the Section	1. 	
Operator O.T.	T COLDANY		L	ease TTODANGE			Well No.
TENNECO OI	<del></del>	m		FLORANCE 121			
Unit Letter	Section	Township		Rounge	County	_	
P	24	30N		10W	San	Juan	
Actual Footage Loc		. + 1-		33.00			1
960	feet from the Sot		line and	1105	feet from the	East	line
Ground Level Elev.	Producing For	nation	Po	ool .		Dec	dicated Acreage:
6322	Dakota			Basin Da	kota	3	15.32 Acres
1. Outline th	e acreage dedicat	ed to the	subject well	by colored pen	cil or hachure	marks on the -	let below
<ol> <li>Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.</li> <li>If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).</li> </ol>							
dated by co	ommunitization, un	nitization, swer is "y	force-pooling.	etc?			owners been consoli-
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INO Allowab	ie will be assigne	a to the we	ell until all in	terests have be	en consolida	ted (by commun	itization, unitization,
forced-pool	ing, or otherwise)	or until a n	non-standard u	nit, eliminating	such interes	ts, has been app	proved by the Commis-
sion.							
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	i		Lot 2	Lot 1		CE	ERTIFICATION
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	1	1,	Lot 10	Lot 9			
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#### TENNECO OIL COMPANY

## PROGNOSIS TO DRILL AND COMPLETE

DIVISION: Rocky Mountain DATE: August 28, 1979

LEASE: Florance WELL NO.: #121

LOCATION: 960 FSL, 1105 FEL FIELD: Basin Dakota

Sec. 24, T 30N, R 10W San Juan County, New Mexico

ban duan country, New reside

ESTIMATED ELEVATION: 6322'

ESTIMATED TOTAL DEPTH: 7,665'

PROJECTED HORFZON: Dakota

#### DRILLING, CASING AND CEMENT PROGRAM:

(1) MIRURT.

- (2) Drill a 13 3/4"hole to 300+. Run 9 5/8", 36#, K-55, ST&C casing to T.D. and cement to surface. Use 2% CaCl<sub>2</sub> in cement.
- (3) Cut off casing and weld on casing head. Pressure test weld to 1000 psi. NUBOP's and manifold. Pressure test casing, BOP's and manifold to 1000 psi for 30 minutes.
- (4) Drill out shoe and reduce hole to 8 3/4". Drill 8 3/4" hole to 3000+. Run 7", 23#, K-55, ST&C casing to T.D. and cement to surface. (Set 7" 200-300' into Lewis shale.)
- (5) Land casing in slips and cut off. Install drilling spool on casing head. Install rotating head, manifold and flare line. Pressure test blind rams, manifold and casing to 1000 psi for 15 minutes. Pick up drilling assembly and 3 1/2" drill pipe. Pressure test pipe rams to 1000 psi for 15 minutes.
- (6) Drill out of 7" with 6 1/4" bit using gas as circulating fluid. Drill a few feet of formation and then blow hole with gas until it is dusting. Drill to T.D.
- (7) Log the hole dry as directed by the wellsite geological engineer and gauge the natural flow from the Dakota.
- (8) If productive, run 4 1/2" casing to T.D. as per casing design. Cement in one stage. Bring cement to above Mesaverde zone.
- (9) If nonproductive, plug and abandon as per U.S.G.S. requirements.

## ESTIMATED FORMATION TOPS: Surface formation - San Jose

OJO Alamo	1,735'	Point Look Out	5,275'
Pictured Cliffs	2,980'	Mancos	5,405'
Lewis	3,105'	Gallup	
Cliffhouse	4,640'	Greenhorn	7,295'
Menefee	4,765'	Dakota "A"	7,400'

#### DRILLING MUD PROGRAM:

0 - 300' Spud Mud

300' - T.D. 7" casing. Low solids fresh water mud. No. W. L. Control.

3,000' + - T.D. Gas

## CORING AND TESTING PROGRAM:

No cores or tests. Guage natural flow from the Dakota.

### **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:

As directed by wellsite geological engineer.

## WELL SURVEYS:

GR/FDC/CNL caliper from T.D. to base of Mesaverde.

GR/SP/SN induction from T.D. to surface casing.

BOP: From 300' to T.D. as per U.S.G.S. requirements.

PREVENTORS MUST BE CHECKED FOR OPERATION EVERY 24 HOURS, AND THE CHECK MUST BE RE-CORDED ON THE AAOOC 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.

- Please refer to Map No. 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 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 ! 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 on a broken mesa slope with Northerly drainage. The soil is rocky, clayey sand. The principal vegetation consist of Juniper, Pinon, sage, Mountain Mahogany, bitter brush, Mormon tea, snakeweed and galleta Oak.
- 12. Operator's Representative -
- 13. Certification -

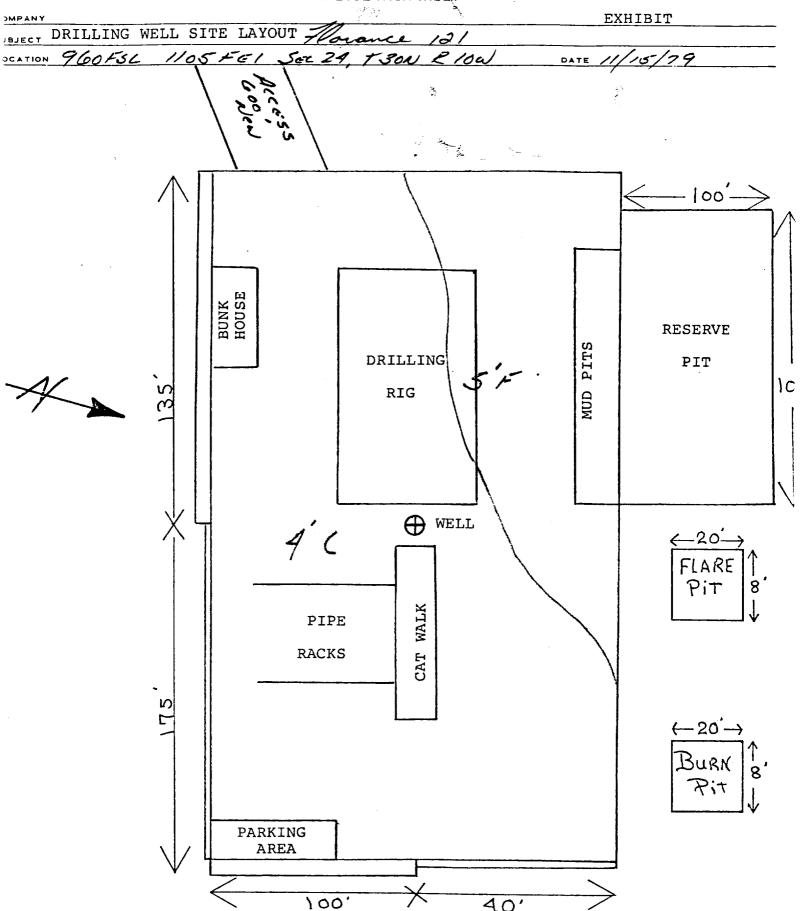
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements mad in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by El Paso Natural Gas Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

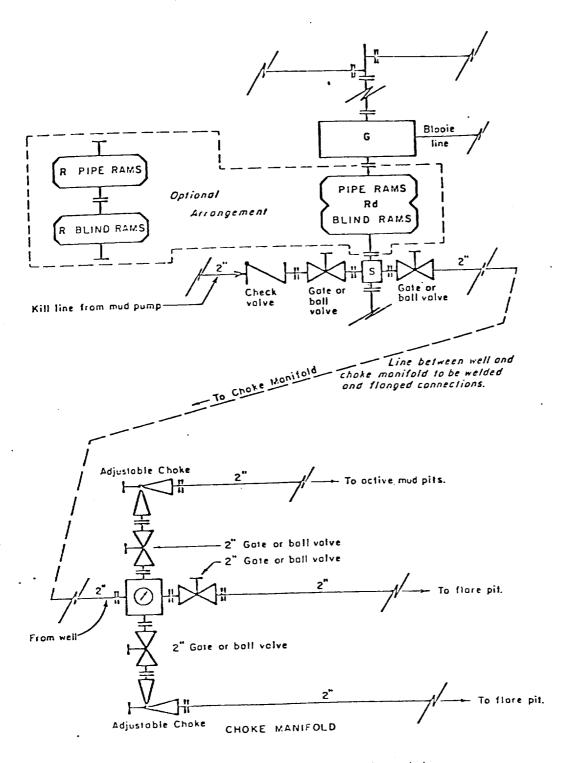
L. Freeman

Staff Production Analyst

### TENNECO OIL COMPANY

## CALCULATION SHEET





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

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

## ARRANGEMENT C

TENNECO OIL COMPANY ROCKY MOUNTAIN DIVISION REQUIRED MINIMUM BLOWOUT PREVENTER AN CHOKE MANIFOLD

J. MAGILL 10-26-78

