INTENTIME

(Other instructions on reverse side)

Form approved. No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

	5.	LEASE	DESIGNAT	ION	AND	BERIAL	NO.
1	l			-	_		

		GEOLOG	SICAL SURVI	ΕY				SF-079511 A	4	
APPLICATION	FOR	PERMIT T	O DRILL, [DEEPE	N, OR	PLUG B	ACK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME	
TTPE OF WORK DRIE	LL 🖾		DEEPEN [LUG BAC		7. UNIT AGREEMENT NA)XE	
OIL CA	LL X			811 \$0	NGLE	MULTIPL BONE	* 🔀	8. FARM OR LEASE NAM	E	
MAME OF OPERATOR	<u>rr m</u>	OTHER				2082		Florance	•	
Tenneco	Oil Co	mpany						9. WELL NO.		
ADDRESS OF OPERATOR	011 00							111		
P.O. Box	3249,	Englewoo	od, Colorad	lo 80)155			10. FIELD AND POOL, OF		
LOCATION OF WELL (Re	port locati	on clearly and	in accordance wit	h any 8	tate requires	e requirements.*)		Basin Blanco Dakota/Pictured Cliffs		
At surface 1800	FNL,	1840 FEL						11. SEC., T., R., M., OR B AND SURVEY OR AR	LK.	
At proposed prod. some same as above								Sec. 19, T30N, R8W		
DISTANCE IN MILES A								12. COUNTY OR PARISH		
		9 miles 1	NE of Blanc	0, N	м.			San Juan	N.M.	
DISTANCE FROM PROPU-				16. NO	OF ACRES			of ACRES ASSIGNED E/32/.		
PROPERTY OR LEASE L. (Also to nearest drig	INE. PT.	if any)	800'			127578	161			
DISTANCE FROM PROPO TO NEAREST WELL, DE	OSED LOCAT	ION .		1	OPOSED DEPT	H	1	TARY OR CABLE TOOLS		
OR APPLIED FOR, ON THE	B LEASE, PT	•		-	±7030		<u> </u>	Rotary 22. APPROX. DATE WORK WILL START		
. ELEVATIONS (Show whe	ther DF, R	T, GR, etc.)	5729 ' GR					March 1981	BE WILL START	
					. <u></u>			1		
		P	PROPOSED CASI	NG ANI	CEMENTI	NG PROGRA	.M			
SIZE OF HOLE		OF CABING	WEIGHT PER F	тоот	SETTIN	G DEPTH		QUANTITY OF CEMENT		
12 3/4"		'8" new	36#	±200			Circulate to surface			
8 3/4"	7" n		23#			±3100 Circulate to surfa				
6 1/4"	4 1/	'2" new	10.5#, 1	L.6#	±	7030		late to liner		
See attached	dedicat						JAN JAN DIST	6 1981 COM.	•	
SHOWED PACE DESCRIPTION OF THE PROPERTY OF THE	drill or de	Alexander R.A.	ishler	t data (on subsurfac	uction A	nd measur	ed and true vertical depu	er 15, 19	
	TAL OF SUR							-	•	
PERMIT NO.					APPROVAL D	ATE		• ',		
			 -				,	DATE		
CONDITIONS OF APPROV	Bu	e Wan	Ly)	uctions	On Reve	ne Side				

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section

Operator		L.	380		Well No.					
1 '	T. COMPANY		Florance	•	111					
Unit Letter	TENNECO OIL COMPANY Init Letter Section Township		Range	County						
G	19	30N	8w	San Juan						
Actual Footage Location of Well:										
1800										
1	Ground Level Elev: Producing Formation Pool 5729 Pictured Cliffs/DAKATA RLAWA PICTURED CLIFFS / RASIN DAKATA 160/320 Acres									
) I I I I I I I I I I I I I I I I I I I									
1. Outline th	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 the	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?									
X Yes	Yes No If answer is "yes," type of consolidation COMMUNITIZATION IN PROGRESS									
this form	If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)									
No allowa	ble will be assign	ned to the well until all in	nterests have been	consolidated (by commun	itization, unitization,					
1	oling, or otherwise	e) or until a non-standard	unit, eliminating su	ch interests, has been app	broved by the Commis-					
sion.				1						
116	7° C A'W	4344 YR		CE	RTIFICATION					
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1	V.	SF SF	079511 A	bess of my kne	owledge and belief.					
1				1. Cl.	Miskler					
	•	.]		Nome						
	Y .	_		R. A. M	Mishler					
	2	VAJ	OHUSTON	Position						
	5		LLE POGERS	Sr. Pro	oduction Analyst					
	Z	(O)	<u>840'</u>	Company						
1	Z		Oil Company							
	7		ON TEXAS	Decembe	er 15, 1980					
	Sec	, T	EXAS PACIFIC	A.Z.a.	113, 1300					
EULA JOHNSTON										
				22 000 7 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	tify that the well location					
n.	1	19	, \	DIST SOM hour on this	plat was platted from field					
		1	TOCE CONE	nates of oct	ial surveys made by me or					
3		1002	10-6		ervision, and that the same					
8		TOCZ	CONE	is true and	correct to the best of my					
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TENNECO OIL COMPANY ROCKY MOUNTAIN DIVISION PENTHOUSE, 720 SOUTH COLORADO BOULEVARD DENVER, COLORADO 80222

DRILLING PROCEDURE

DATE:

1

November 19, 1979

LEASE:

Florance

WELL NO.: 111

LOCATION: 1800' FNL, 1840' FEL Sec. 19, T 30 N, R 8W

FIELD: Basin Dakota

San Juan County, New Mexico

ELEVATION: 5729 G.L.

TOTAL DEPTH:

7030

PROJECTED HORIZON: Dakota/PC

APPROVED BY: John W. C.

DK/ms

1st Rev.

ESTIMATED FORMATION TOPS

OJO Alamo		1250	(Water)
Pictured cliffs	•	2450	(Gas)
Lewis Shale		2610	
Cliffhouse		4216	(Gas)
Menefee		4340	(Gas)
Point Lookout		4665	(Gas)
Mancos		4885	
Gallup		6170	(0il)
Greenhorn		665.5	
Dakota		6765	(Gas)
T.D.		7030	

Surface Formation: Nacimiento

No abnormal temperatures or pressures are expected.

DRILLING, CASING, AND CEMENT P BRAM

- 1. MIRURT.
- 2. Drill a 12 3/4" hole to <u>+</u> 200'.
- 3. RU and run 9 5/8", 36#, K-55, ST&C casing.
- 4. Cement with 150 sx Class B + 2% CaCl₂.
- 5. WOC a minimum of 12 hours. Nipple up BOP's, choke manifold, and kill line. Pressure test rams, lines and casing to 600 psi for 30 minutes. Record test on IADC Drilling Report.
- 6. Drill an 8 3/4" hole + 500' into the Lewis Shale.
- 7. RU and run 7", 23#, K-55, ST&C casing to T.D.
- Cement with sufficient volume to circulate cement to surface using 50/50 pozmix, 4% gel tailed by 150 sx of Class B + 2% CaCl₂. Precede cement with a chemical preflush.
- 9. WOC a minimum of 18 hours. Pick up 3 1/2" drill string and drill to within 5' of shoe. Displace water with N2 and soap. Drill shoe and 5' of formation. Blow hole with gas until dusting.
- 10. Drill a 6 1/4" hole to T.D.
- 11. Log open hole as directed by G.E. Department.
- 12. RU and run 4 1/2", 10.5#/11.6#, K-55, LT&C liner to T.D. leaving 150' of overlap.
- 13. Set liner and cement with 50/50 pozmix, 2% gel tailed by 100 sx Class B. Use a chemical preflush ahead of cement.
- 14. Reverse out excess cement, LDDP and install X-mas tree.
- 15. MORT.
- 16. If well is non-productive, P & A as per regulatory specifications.

CASING PROGRAM

0-200 9 5/8", 36#, K-55 ST&C

0-3100 7", 23#, K-55, ST&C

2950-7030 (4050') 4 1/2", 10.5#, K-55, LT&C

MUD PROGRAM

0-200 Native solids. Have sufficient viscosity to clean hole and run casing.

200-3100 Benex and water. Have sufficient viscosity to run casing.

3100-T.D. Gas.

EVALUATION

Cores and DST's:

No cores or DST's are anticipated.

Deviation Surveys:

- 1. Survey surface every 100'. Maximum allowable deviation at surface is 10.
- 2. From surface to T.D., surveys must be taken every 500', or each trip, whichever is first. This may entail running the TOTCO on wireline. Record surveys on IADC Drilling Report. I aximum allowable change is 10 per 100'.

Samples:

Logs:

GR/IND T.D. to Intd.
GR/FDC/CAL T.D. to Base M V
TDT 300' below PC to surface.

BLOWOUT EQUIPMENT

10", 3000 psi, double ram hydraulic operated with closing unit and 40 gallon accumulator.

10", 150 psi, rotating head and 7" blcoie line.

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: Maclements

2 & 3. Estimated Formation Tops:

(See Attached Drilling Procedure)

4. Proposed Casing Program:

(See Attached Drilling Procedure)

- 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).

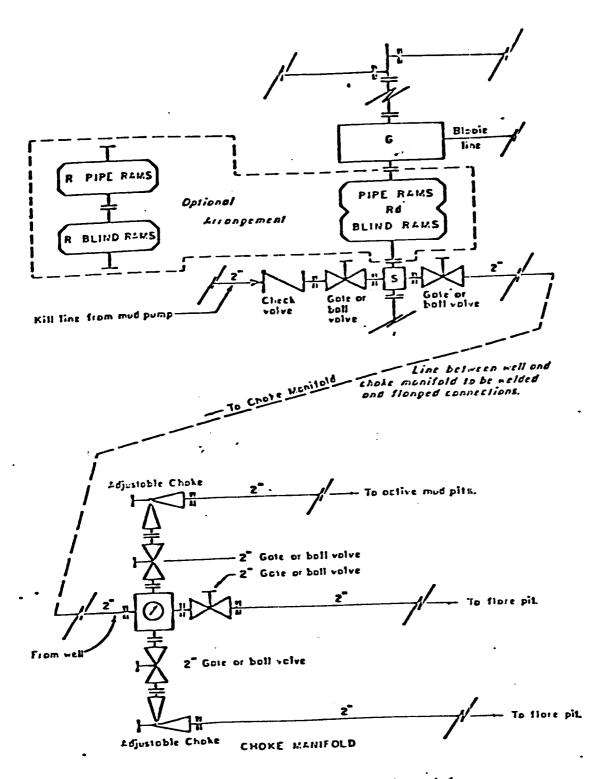
(See Attached Drilling Procedure.

- 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)

- No abnormal pressures, temperatures or potential hazards such as H₂S are expected to be encountered.
- 10. The drilling of this well will start approximately (Much 8) 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.

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

ARRANGEMENT C

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

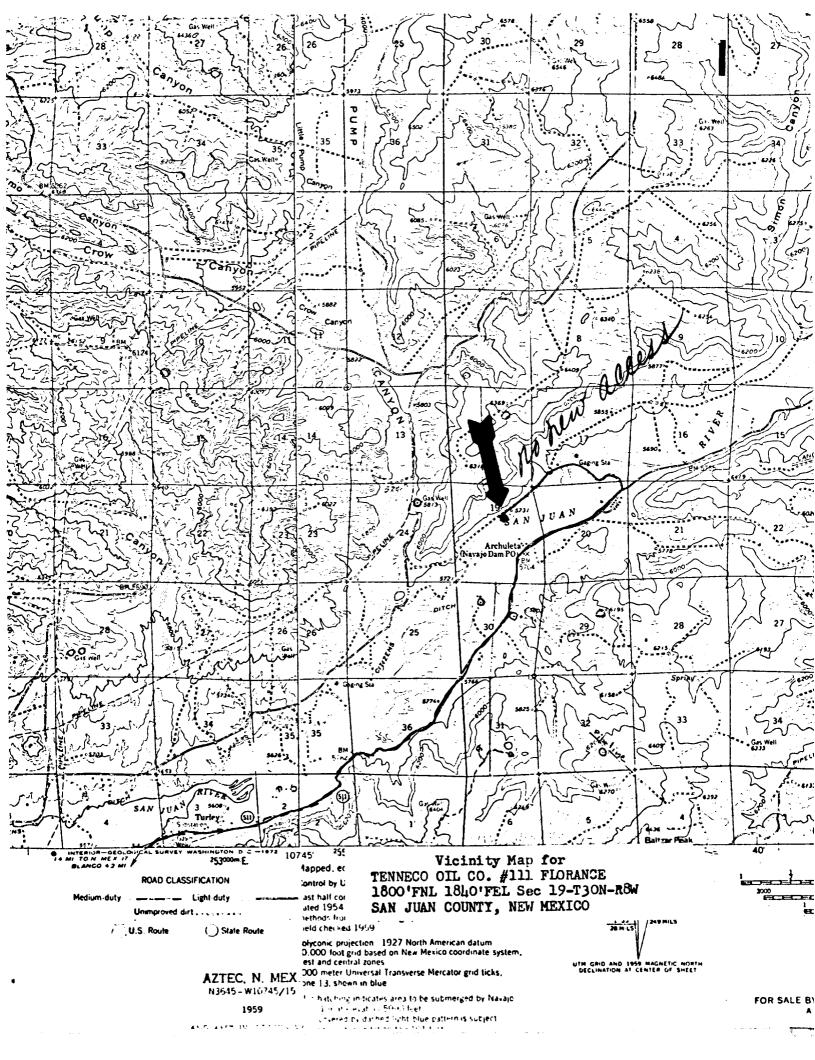
- 1. Existing Road Please refer to Map No. 1 which shows the existing roads. New roads which will be required have been marked on this map. All existing and new roads will be properly maintained during the duration of this project.
- 2. Planned Access Roads Please refer to Map No. 1. The grade of the 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.

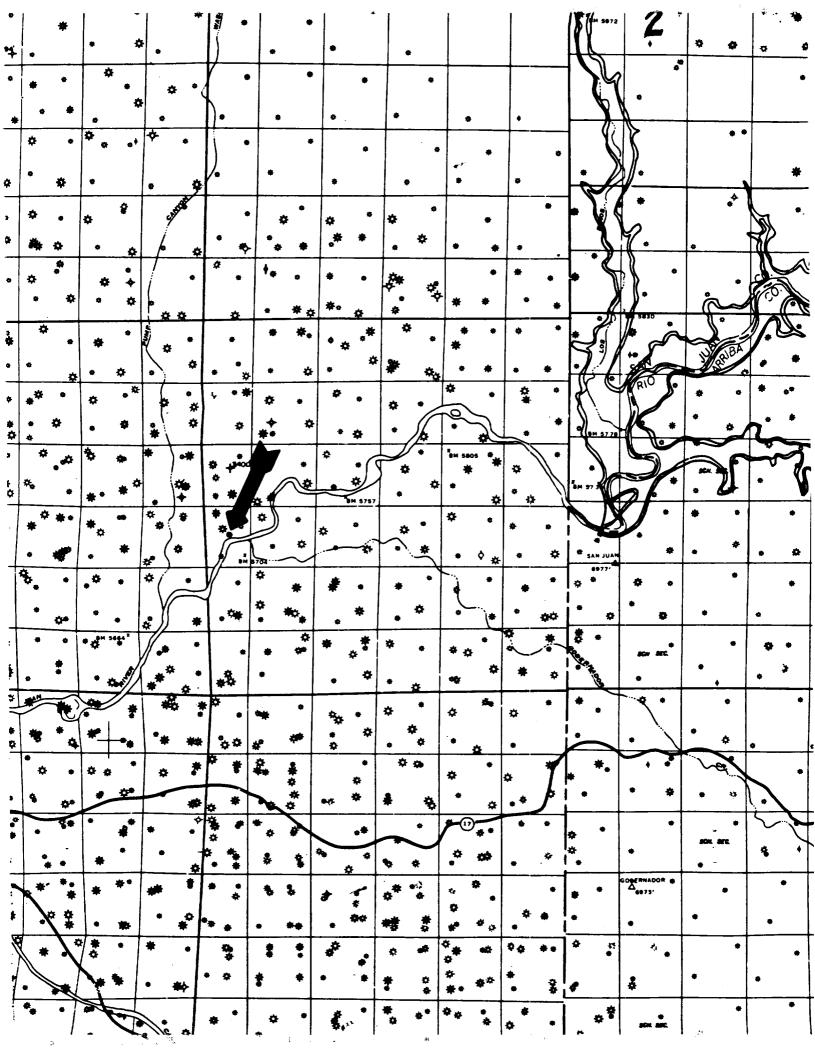
- 8. Ancillary Facilities No camps or airstrips will be associated with this project.
- 9. Wellsite Layout Please refer to the attached Plat No. 1.
- 10. Plans for Restoration of the Surface After completion of the proposed project
 the location will be cleaned and leveled. The location will be
 left 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 area is flat. Vegetation includes sage, snakeweed, and some native 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





TENNECO OIL COMPANY

CALCULATION SHEET

Section 19, T30N, R8W 1-79 DATE

