SUBMIT IN TRIPLICATE.

(Other instructions on erke side)

	Budget	Bureau	No.	42-R14	25
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UNITED STATES	164
EPARTMENT OF THE INTERIOR	

SF-0785

GEOLOGICAL	SF-078596-A		
APPLICATION FOR PERMIT TO DRI	LL, DEEPEN, OR	PLUG BACK	G. IF INDIAN, ALLOTTEE OF TRIBE NAME
1a. TIPE OF WORK DRILL DEE	PEN P	LUG BACK [7. UNIT AGREEMENT NAME
b. TIPE OF WELL			
OIL OAB YELL OTHER	SINGLE ZONE	MULTIPLE ZONE	S. FARM OR LEASE NAME
2. NAME OF OPERATOR			Florance
Tenneco Oil Company			9. WELL NO.
3. ADDRESS OF OPERATOR			123
720 S. Colorado Blvd., Denver,	CO 80222		10. FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL (Report location clearly and in accorda At surface	nce with any State requires	nents.*)	Blanco P.C./Basin Dakot
1830' FNL, 800' FWL			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zone			Sec. 3, T29N, R8W
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN	OR POST OFFICE*		12. COUNTY OR PARISH 13. STATE
9 miles East/Northeast of Blanc	o, NM		San Juan NM
10. DISTANCE FROM PROPUSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)	16. NO. OF ACRES 1447.31		O. OF ACRES ASSIGNED O THIS WELL C W/324.16
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	19. PROPOSED DEFT		otary otary
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6304 GR			22. APPROX. DATE WORK WILL START* ASAP

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CAS	ING	WEIGHT PER POOT	SETTING DEPTH	QUANTITY OF CEMENT
121/4"	9 5/8"	new	36# , K−55	- 250'	Circulate to surface
8 3/4"	7"	new	23#, K-55	±4000'	Circulate to surface
64"	4½"	new	10.5#, 11.6#	+ 7580	Circulate through liner hanger

SEE ATTACHED

THE GAS IS DEDICATED



IN ABOVE SPACE DESCRIBE PROFOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout presenter program if any pre

TITLE Staff Production	n Analysis DATE 12/06/79
APPROVAL DATE	
TITLE	DATE
	APPROVAL DATE

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*See Instructions On Reverse Side

NMOCC

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO LHERGY AND MINERALS DEPARTMENT

Form C-102 Ferisca lu-1

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

All distances must be from the cuter boundaries of the Section Operator Lease Well No. TENNECO OIL COMPANY FLORANCE 123 Unit Letter Section Township Range County 29N 8W San Juan Actual Footage Location of Well: 1830 feet from the North line and line feet from the West Ground Level Elev. Producing Formation Dedicated Acreage: 6304 P.C./Dakota Blanco // Basin Dakota 164.16 324.16 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? Yes If answer is "yes," type of consolidation 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. LOT 4 CERTIFICATION LOT 3 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Freeman Staff Production Analyst Position 8001 Tenneco Oil Company Company 12/26/79 TENNECO 1 3 Date Sec. CONOCO SF-078596-A 3 I hereby certify that the well location 324.16 Acres 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 best of my knowledge and belief. Date Surveyed Fred 19 Certificaté No. 19 Ext 1320 1650 2310 2000 1500 1000 500

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

DRILLING PROCEDURE

DATE:

November 26, 1979

LEASE:

Florance

WELL NO.: 123

LOCATION: 1830' FNL, 800' FWL Sec. 3, T 29N, R 8W

San Juan County, New Mexico

FIELD: Four Townships Area

ELEVATION: 6290' Est. G.L.

TOTAL DEPTH: 7580'

PROJECTED HORIZON: Pictured Cliffs/Dakota

ADDROVED BY: Jah 20 Chan

DK/ms

1st Rev.

ESTIMATED FORMATION TOPS

OJO Alamo	1905'	(Water)
Pictured Cliffs	3305'	(Gas)
Lewis Shale	3500'	
Cliff House	4690'	(Gas)
Menefee	4825'	(Gas)
Point Lookout	5160'	(Gas)
Mancos	5455'	
Gallup	6220'	(0i1)
Greenhorn	7220'	
Dakota	7325'	(Gas)
T.D.	7580'	

Surface Formation: San Jose

No abnormal temperatures or pressures are expected.

DRILLING, CASING, AND CEMENT PROGRAM

1. Move in, rig up rotary tools.

7

- 2. Drill a 12 1/4" hole to ± 250 '.
- 3. Run 9 5/8", 36#, K-55, ST&C casing to 250'
- 4. Cement with Class B cement with 2% CaCl₂. Use sufficient volume to circulate cement to surface.
- 5. Wait on cement a minimum of 12 hours. Nipple up blowout preventer and manifold with relief lines. Pressure test to 600 psi for 30 minutes. Test pipe and blind rams.
- 6. Drill an 8 3/4" hole to \pm 4000'. Samples should be taken every 10' starting at 3400' to insure penetrating the Lewis Shale 500'.
- 7. Run 7", 23#, K-55, ST&C casing to $\frac{1}{4}000$ '
- 8. Cement with 50/50 pozmix and tail in with 150 sx Class B cement with 2% CaCl₂. Cement with sufficient volume to circulate cement returns to surface.
- 9. Wait on cement a minimum of 18 hours. Nipple up to gas drill. Pressure test to 1000 psi for 30 minutes.
- 10. Pick up 4 3/4" drill collars and 3 1/2" drill pipe. Drill cement to within 5' of guide shoe. Displace water with nitrogen. Displace nitrogen with gas. Drill 5' of new formation and blow hole dry.
- 11. Drill a 6 1/4" hole to T.D. using gas.
- 12. Run open hole logs.
- 13. Run 4 1/2" casing with casing liner hanger to T.D. Run a minimum of 150' of overlap.
- 14. Cement with 50/50 pozmix as a lead cement. Tail in with neat cement to cover Dakota. Use sufficient volume of cement to circulate cement to liner top.
- 15. Reverse out excess cement. Lay down 3 1/2" drill pipe. Install well head.
- 16. MORT.
- 17. If well is non-productive, P & A as per regulatory agency regulations.

CASING PROGRAM

Surface: 250' of 9 5/8", 36=, K-55, ST&C casing.

Intermediate: 4000' of 7", 23#, K-55, ST&C casing.

Liner: 3150' of 4 1/2", 10.5#, K-55, ST&C casing.

580' of 4 1/2", 11.6#, K-55, ST&C casing.

MUD PROGRAM

0-250' Native solids. Viscosity as needed to clean hole. Sweeps as necessary.

250-4000' Low solids, chemical gel mud. Sweeps to clean hole.

4000-T.D. Gas.

EVALUATION

Cores and DST's:

None.

Deviation Surveys:

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

Samples:

Samples hould be taken every 10' from 2950' to 3500' to insure penetrating the Lewis Shale 600'.

Logs: 'This will require one set of logs run after T.D. in Dakota and TDT log run after casing is set in Dakota.

Induction/GR - T.D. to surface.

Comp. Density with Gamma Ray & Caliper - T.D. to B/Pt. Lookout.

TDT - 300' below Pictured Cliffs to surface.

BLOWOUT EQUIPMENT

10" 900-series, double ram hydraulic operated with closing unit and 40 gallon accumulator.

10" 900-series, rotating head, 7" blooie line, high pressure manifold with separate valves and discharge lines.

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.

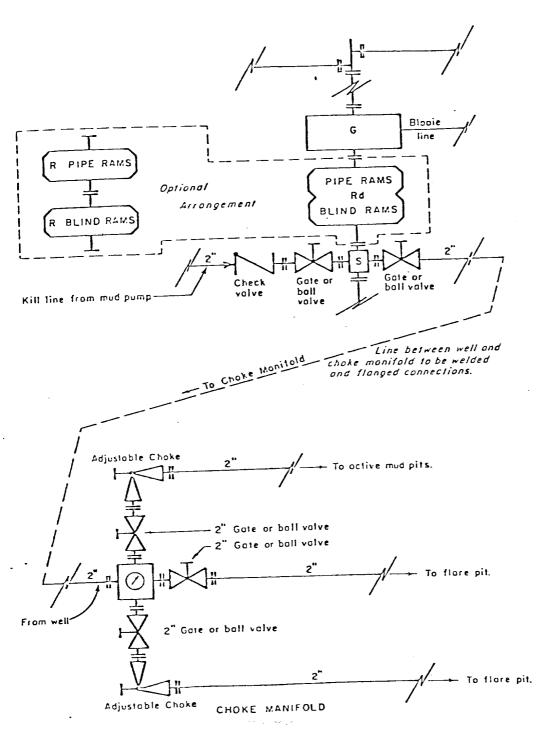
The yellow sheet of the IADC Report to be filled out completely, the original copy of the drilling time recorder, and copies of any invoices from this well, signed and received for Tenneco Oil Company will be mailed daily to:

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



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

- Double ram type preventer with two sets of rams. 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

ARRANGEMENT C

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

EVI

J. MAGILL 10-26-79

- 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 atop Manzanares Mesa on slightly rolling topography. There is an adjacent location to the North providing access. The soil is sandy clay supporting primarily pinon, juniper and 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 Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

L. Freeman

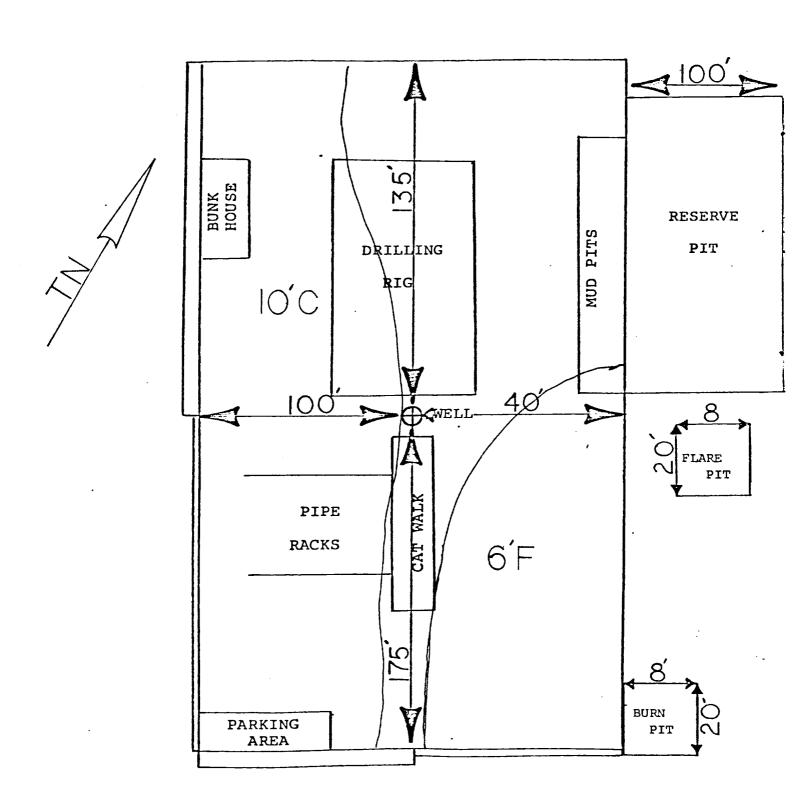
Staff Production Analyst

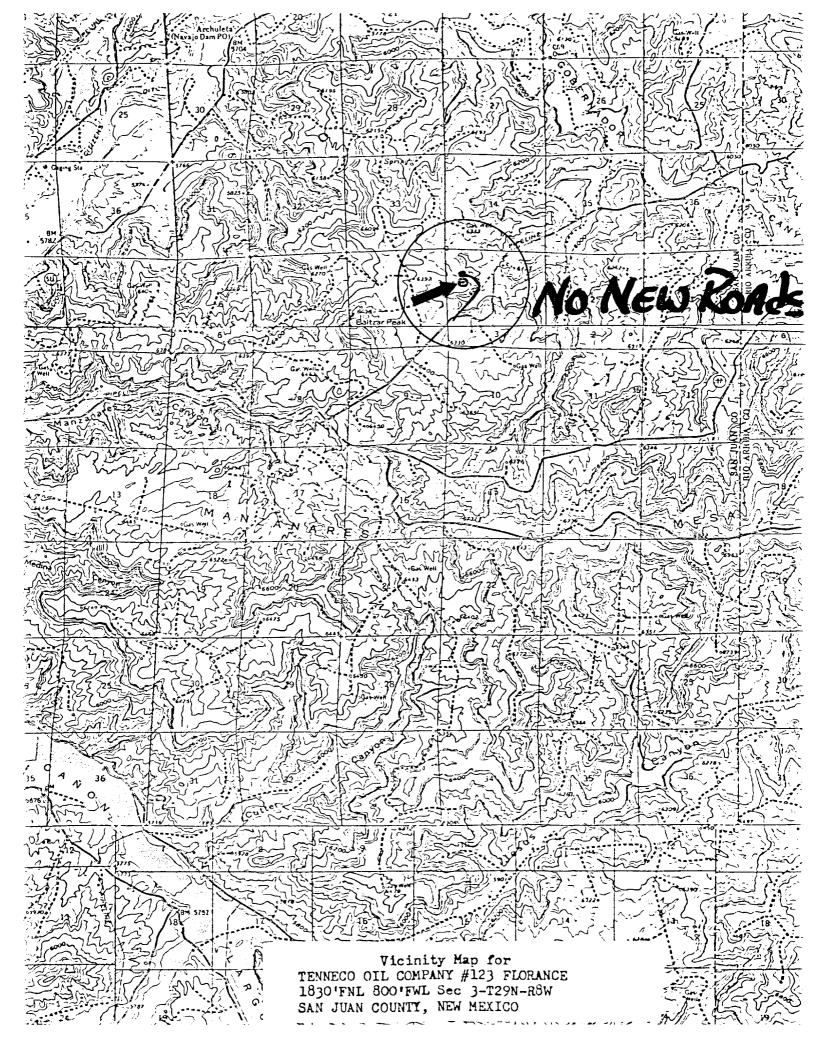
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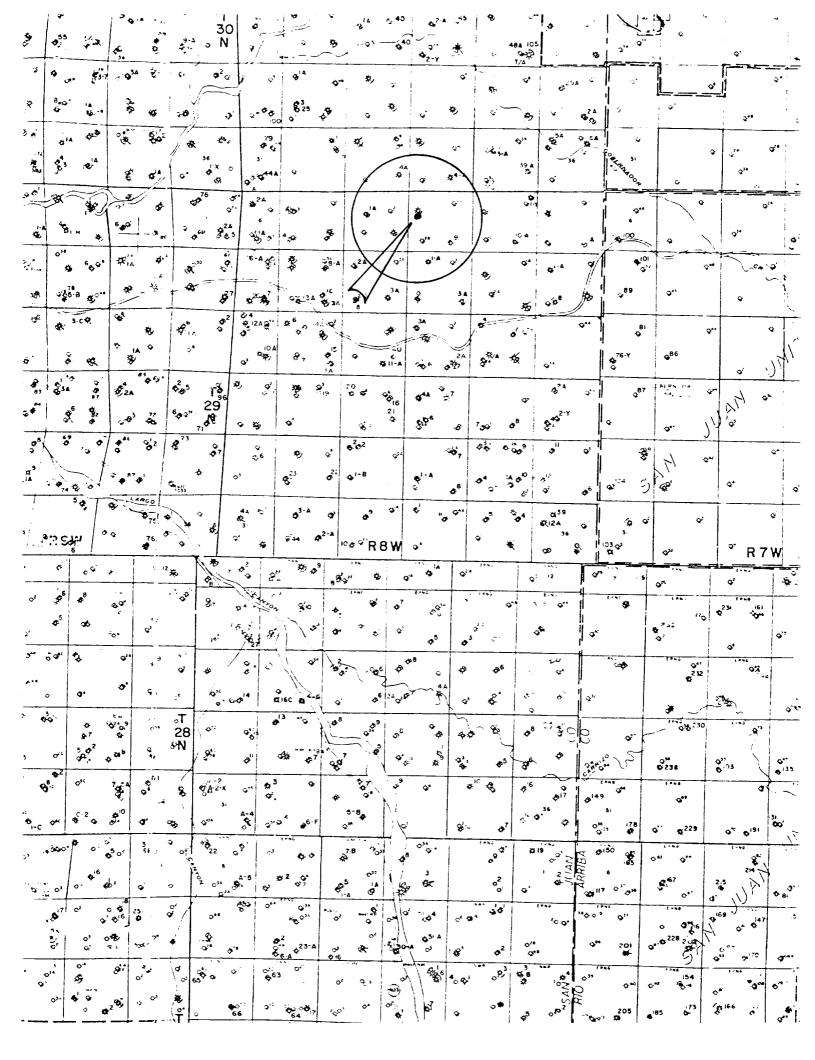
TENNECO O'L COMPANY

CALCULATION SHEET

EXHIBIT
ORILLING WELL SITE LAYOUT FLORANCE 123
TION 1830 FNC, 800 FWC SEC 3 729N, 28W DATE







SUBMIT IN TEIPLICATE.

Form/approved. Budget Burcau No. 42-R1425.

REVISION UNITED STATES DEPARTMENT OF THE INTERIOR (Other instructions on reverse side)

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	GEOLO	GICAL SURV	ΕY				SF-078596-2	A	
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	ILL 🖾	DEEPEN		PLU	G BA				
b. TITE OF WELL	VELL OTHER			INGLE	MULTIP	LE X	S. FARM OR LEASE	NAME	
2. NAME OF OPERATOR		· · · · · · · · · · · · · · · · · · ·					florance	•	
Tenneco Oil							9. WELL NO.	• . •	
3. ADDRESS OF OPERATOR		60 0	2222				. 123		
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4. LOCATION OF WELL (1 At surface	teport location cicari, and	In accordance wi	шинуз	erute ledantemen	16.7		Blanco P.C./		
1830' FNL, 8	00' FWL					•	AND SURVEY OR	AREA	
At proposed prod. zo:	D e						Sec. 3, T	29N, R8W	
14. DISTANCE IN MILES	AND DIRECTION FROM NEAR	EST TOWN OR POS	T OFFICE	r.*			12. COUNTY OR PARI	SH 13. STATE	
9 miles Eas	t/Northeast of B	lanco, NM				į	San Juan	NM	
10. DISTANCE FROM PROP LOCATION TO NEARES	USED.		16. NO	OF ACRES IN L	EASE		F ACRES ASSIGNED	<u>.</u>	
PROPERTY OR LEASE : (Also to bearest dr)	LINE, FT.	:	14	147.31		PC∸]	164.16/Dakota	-324.16	
18. DISTANCE FROM PROI			i	OPOSED DEPTH		20. ROTAL	OTARY OR CABLE TOOLS		
OR APPLIED FOR, ON TE	IIS LEASE, FT.		75	580 		rot	otarÿ		
21. FLEVATIONS (Show wh	ether DF, RT, GR, etc.)					÷	22. APPROX. DATE	WORK WILL START	
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	P)	ROPOSED CASI	NG AND	CEMENTING	PROGRA	.M .		÷.	
SIZE OF HOLE	EIZE OF CASING	WEIGHT PER F		SETTING DE	PTH	<u> </u>	QUANTITY OF CEN		
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	U. S. GEOLOGIC	CHRVEY 1)						
zone. If proposal is to preventer program, if an	e PROPOSED PROGRAM: If podrill or deepen directional	roposal is to deep						the. Give blowout	
SIGNED M. Lee	Heellancema	TIT	LE St	aff Produc	tion	Analysi	E DAT 1-1	1-80	
(This space for Fede	ral or State office use)						•	· ·	
PERMIT NO.				ARREOVAL DATE					
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APPROVED BY		TIT	LE			AF	AMENDED		
CONDITIONS OF APPROV	AL, IF ANY:					, (C)			
DRILLING OPERATIONS A	UTHORIZED ARE	5 m - L	pr = 1	100 0 1		las	mes + Sem		
GENERAL REQUIPEMENT		*See Instru	ctions	On Reverse S	ide	DISTE	RICT ENGINEER	ı	

P. C. BOX 7088 SANTA FE, NEW MEXICO 87501

Form C-102 Fevised 10-1-78

All distances must be from the cuter boundaries of the Section.

Cherator			Leose		Well No.
TENNECO OIL COMPANY			FLORANCE		123
Unit Letter Section Township			Flange	County	
E	3	29N	8w	San Juan	
Actual Footage Loc		North line and	800 see	et from the West	line
Ground Level Elev.	Producing For	mation	Pool Blanco Pictu		Dedicated Acreage:
6304	l 		<u> </u>		
1. Outline the finterest and the dated by the state of th	Producing For Pictured (Pictured (Pi	cliffs/Dakota ted to the subject we dedicated to the well ifferent ownership is a mitization, force-pooli nswer is "yes," type of owners and tract descended to the well until all or until a non-standard	Poor Blanco Pictu Basin Dakota ell by colored pencil of the continue each and ide dedicated to the well, ng. etc? f consolidation riptions which have as interests have been of d unit, eliminating suc	ctually been consolidated (by consolidated (by consolidated (by consolidated hereby to ined here	Dedicated Acreage: 164.16 Acrea the plat below. thereof (both as to working of all owners been consoli- dated. (Use reverse side of mmunitization, unitization, in approved by the Commis- CERTIFICATION certify that the information con- erein is true and complete to the my knowledge and belief. Hullman
[ракота - 324.16	5	JAN 1 7 1980	111	octual surveys made by me or
5	SF-078596-A			under my	supervision, and that the same
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