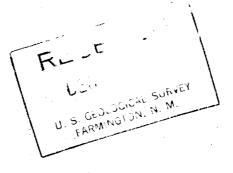
SUBMIT IN TRIPLICATE.

(Other instructions on

Form approved. Budget Bureau No. 42-R1425.

	DEPARTMENT	ED STATES		reverse :	side)	30-045-29/61	
				IUR	,	5. LEASE DESIGNATION AND SERIAL NO.	
	GEOLO	SICAL SURVE	ΞY			SF 080245	
APPLICATION	N FOR PERMIT T	O DRILL, D	DEEPE	N. OR PLUG	BACK	G. IF INDIAN, ALLOTTEE OR TRIBE NAME	
1a. TIPE OF WORK				.,		·	
	ILL 🖾	DEEPEN [PLUG BA	CK 🗌	7. UNIT AGREEMENT NAME	
	AS OTHER		SIN ZON	GLE MULTI	PLE	8. FARM OR LEASE NAME	
2. NAME OF OPERATOR						Hamner	
Tenneco Oil	Company					9. WELL NO.	
3. ADDRESS OF OPERATOR						A A	
720 S. Color	ado Blvd., Denve	er, CO 80	222			10. FIELD AND FOOL, OR WILDCAT	
4. LOCATION OF WELL (R	leport location clearly and	in accordance wit	h any St	ate requirements.*)		Basin Dakota	
825' FSL, 16	60' FWL			_	. :	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
At proposed prod. zor	ne						
						Sec. 28, T29N, R9W	
	AND DIRECTION FROM NEAR		OFFICE*			12. COUNTY OR PARISH 13. STATE	
2.7 miles So	utheast 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)			1, 170			OF ACRES ASSIGNED HIS WELL	
				20. ROTA	RY OR CABLE TOOLS		
OR APPLIED FOR, ON TH		· - ·	67	710"	Ro	tary	
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)					22. APPROX. DATE WOBE WILL START*	
5721 GR						ASAP.	
23.	P	ROPOSED CASIN	G AND	CEMENTING PROGR	AM -		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	ют	SETTING DEPTH		QUANTITY OF CEMENT	
12 3/4"	9 5/8" new	36#, K-55		<u> 200 </u>	Circu	Circulate to surface	
8 3/4"	7" new	23#, K-55 ⁺ 4775' (Circu	Circulate to surface		
6 1 4"	4½" new	10.5#, 11	6#	- 6710 '	Circu	late through liner hanger	
	1 I		1				

THE GAS IS DEDICATED





IN ABOVE SPACE DESCRIBE PROPOSED 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 preventer program, if any.

signed M. Lee Freeman Ruman	Staff Production Analyst	December 21, 1979
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	- No. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10
APPROVED BY	TITLE	DATE

oh 3nd

*See Instructions On Reverse Side

STATE OF NEW MEXICO LIVERGY AND MINERALS DEPARTMENT

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

Form C-102 Revised 10-1-78

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

			T:				
Operator			Lease				Well No.
TENNECO O		T	HAMN				1-2
Unit Letter	Section	Township	Flange		County		
C	28	29N	9	W	San	Juan	
Actual Footage Loc	ation of Well:	North					
825		outil line or) feet	from the	West	Hine
Ground Level Elev.	Producing For	mation , d e	Pool E	lanco			Dedicated Acreage:
5721	Dakota Dakota		Ba	sin Dakota			320 Acres
 If more the interest ar If more the 	an one lease is nd royalty). nn one lease of d		ell, outline s dedicated	each and iden	itify the	ownership	the plat below. thereof (both as to working of all owners been consoli-
this form it No allowab	is "no," list the finecessary.) le will be assigne	ed to the well until	scriptions w	which have ac	onsolidat	ted (by co	dated. (Use reverse side of mmunitization, unitization, en approved by the Commis-
TE CC	EA SF-080245 ENNECO 1/2 ENOCO 1/2	c.				Name M Staff Position Tenned Company	CERTIFICATION A certify that the information con- mercin is true and complete to the my knowledge and belief. L. Freeman Production Analyst CO Oil Company ber 21, 1979
		28				Date Surve	ber 11 - 1979 d'Professional Englisher d'Surveyor : 0 3253
						Certificate	
0 330 660 -	90 1320 1650 198	0 2310 2640 26	1500	1000 50	0	3950	-

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

DRILLING PROCEDURE

DATE:

November 19, 1979

LEASE:

Hamner

WELL NO .: 44

LOCATION:

825' FNL, 1660' FWL Sec. 28, T 29N, R 9W

San Juan County, New Mexico

FIELD: Basin Dakota

ELEVATION:

5700' Est. G.L. - 5711' Est. K.B.

TOTAL DEPTH:

6710'

PROJECTED HORIZON: Dakota/Mesa Verde

APPROVED BY: Jak 2 Com

DK/ms

1st Rev.

ESTIMATED FORMATION TOPS

OJO Alamo	1025	(Water
Pictured cliffs	2070	(Gas)
Lewis Shale	2125	
Cli ['] ffhouse	3820	(Gas)
Menefee	3885	(Gas)
Point Lookout	4395	(Gas)
Mancos	4575	
Gallup	5590	(0il)
Greenhorn	6330	
Dakota	6445	(Gas)
T.D.	6710	

Surface Formation: Nacimiento

No abnormal temperatures or pressures are expected.

- 1. MIRURT.
- 2. Drill a 12 3/4" hole to + 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 150-200' into the Mancos Shale. Treat mud system for possible lost circulation before penetrating the Mesa Verde.
- 7. RU and run 7", 23#, K-55, ST&C casing to €710'
- 8. Cement in two stages with sufficient volume to circulate cement to surface. Use 50/50 pozmix, 4% gel tailed by 150 sx of Class B + 2% CaCl₂. Precede cement with a chemical preflush. Place DV at top of MV and use cement baskets in first stage.
- 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", $10.5\#/11.6\pm$, 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 agency specifications.

CASING PROGRAM

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

0-4800 7", 23#, K-55, ST&C

4650-6710 (2060') 4 1/2", 10.5#, K-55, LT&C

MUD PROGRAM

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

200-4800 Benex and water. Have sufficient viscosity to run casing. Pretreat for lost circulation in Mesa Verde.

4800-T.D.

EVALUATION

Cores and DST's:

No cores or DST's are anticipated.

Deviation Surveys:

- 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. Maximum allowable change is 1° per 100'.

Samples:

Logs: Two logging runs.

- 1. GR/IND: T.D. to surface; Comp Neutron Density through M V only.
- 2. GR/IND: T.D. to intermediate; Comp Density with GR T.D. to B/Pt. Lookout.

BLOWOUT EQUIPMENT

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

10", 150 psi, rotating head and 7" blooie 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.

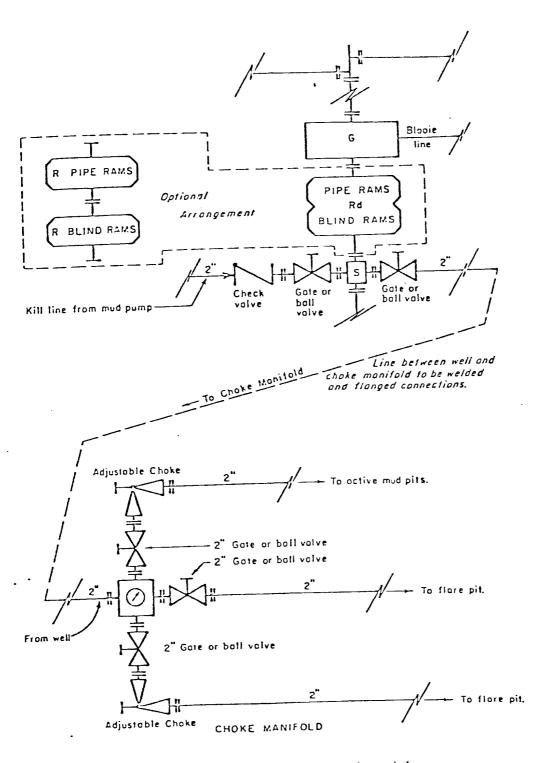
The yellow sheet of the IADC Report to be filled out completely, the original copy of the drilling time recorder, and copies of any invoices from this well, signed and received for Tenneco Oil Company will be mailed daily to:

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



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

- Rd Double rom type preventer with two sets of roms.
- 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

- 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 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.

- 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 the south side of the Mouth of Canyon Largo. The site is located approximately 150' to the North side of any existing road. The soil is sandy loam. The principal vegetation is pinon & juniper.
- 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

