SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES

(122) 1000)	UNI	TED STATES	• • • • • • • • • • • • • • • • • • •	` .	reverse sid	e)	30-045-24201		
	DEPARTMEN			KIUK			5. LEASE DESIGNATION AND SERIAL NO		
		OGICAL SURVI					SF 077085		
APPLICATION	FOR PERMIT	TO DRILL, I	DEEP	EN, OR P	LUG BA	4CK_	6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
R. TYPE OF WORK DRIL	L XX	DEEPEN [PLU	JG BAC	к 🗆	7. UNIT AGREEMENT NAME		
b. TYPE OF WELL OIL GAS	LL XX OTHER			NGLE	MULTIPL ZONE	KX a	S. FARM OR LEASE NAME		
WELL WE	LL 4A OTHER			<u> </u>	20112		Omler "A"		
Tenneco Oil Co	mpany						9. WELL NO.		
. ADDRESS OF OPERATOR		er. CO 802					1E 10. FIELD AND POOL, OR WILDCAT		
720 S. Colorad	o Blvd., Denv	er, CO 802		State requireme	nts.*)		Chacra/Basin Dakota		
At surface		au iu decoration wa	.	•			11. SEC., T., E., M., OE BLK. AND SURVEY OR AREA		
1830' FNL, 159							AND SCRIET OR RELA		
At proposed prod. zone				_			Sec. 26, T28N, R10W		
4. DISTANCE IN MILES A			T OFFIC	E.			12. COUNTY OR PARISH 13. STATE		
8.1 miles sout		mfield, NM	1 10	0.0000000000000000000000000000000000000	I E 4 GE	17 80	San Juan NM OF ACRES ASSIGNED		
10. DISTANCE FROM PROPULICATION TO NEAREST			İ	O. OF ACRES IN	PEAGE	TOI	THIS WELL		
PROPERTY OR LEASE LI (Also to nearest drig	. Unit line, it mily)						N 320 20. ROTARY OR CABLE TOOLS		
18. DISTANCE FROM PROPO TO NEAREST WELL, DR	ILLING, COMPLETED,			580'			otary		
OR APPLIED FOR, ON THI			1 0.				22. APPROX. DATE WORK WILL START*		
5787 GR	mer 22, 112, 113, 114,						ASAP		
23.		PROPOSED CASI	NG AN	D CEMENTING	G PROGRA	.м ·			
TOTAL OF WOLF	SIZE OF CASING	WEIGHT PER F	TOOT	SETTING I	DEPTH	<u> </u>	QUANTITY OF CEMENT		
SIZE OF HOLE	9 5/8" new	36# , K - 55		± 250'		Circu	late to surface		
8 3/4"	7" new	23# , K-55	5	±3200'		Circu.	late to surface		
614"	4½" new	10.5#, K-	- 55	±6580 '		Circu	late to liner top		
		1		1		•			
SEE ATTACHED						: :			
No abnormal to	emperatures, p	ressures or	geol	ogic haza	rds are	e expe	cted.		
NO aprolimer co	Smpolasars, 1								
		- , . .							
			•						
				•			The state of the s		
mun CNG TG DE	D.T.G.3.MID.D					•			
THE GAS IS DE	DICATED		. 1						
	term of the Arrangement of		ing. District		_ /		SEED 9 7-1000		
							* LED 2 7 1000		
							Oir cc		
IN ABOVE SPACE DESCRIBI	PROPOSED PROGRAM:	If proposal is to de	epen or	plug back, give	data on p	resent pro	oductive zone that proposed new productive		
zone. If proposal is to preventer program, if an	drill or deepen direct	onally, give pertine	nt data	on subsurface	locations &	na measui	red and true vertical depths. Give blowou		
24. //	July -								
ALCOND THE	1 & Kumi	en-	TITLE S	Staff Proc	duction	Analy	st February 1, 19		
SIGNED M. T. P	REEMAN								
(Ins space for Fede	eral or State office use	,							
PERMIT NO.				APPROVAL DAT	re				
			TITLE				DATE		
APPROVED BYCONDITIONS OF APPRO							. 1 _		
·)	16.16 16 Welove 6	10.2 30 1	i. i.	·L			y Lus		
	A STATE OF						1 month		

DPHLING GRERATIONS AUTHORISED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

*See Instructions On Reverse Side

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO IGY AND MINERALS DEPARTMENT

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

Form C-107 Revised 10-1-78

	All distances must	he from the cuter haundarte	e of the Section.		
		Lease			Well No.
MDA NY		OMLER "A"			1-E
	Township	Range	County		
	28 N	10W	San J	uan	
	2011				
	orth lin	e and 1590	feet from the	est	line
		Pool			Dedicated Acreage:
1		Basin Dako	ta		N 320 Acres
Darous	1 1 . 1 .			narks on th	e nlat below.
one lease is yalty).	dedicated to th	e well, outline each an	d identify the o	wnership th	ereof (both as to working
unitization, u	mitization, force	-pooling. etc?			all owners been consoli-
No If an	nswer is "yes;"	type of consolidation _			
cessary.)	-d to the well ur	atil all interests have b	een consolidate	d (by com	munitization, unitization,
**********		****************			CERTIFICATION
- TENI CON(320 - -	NECO 1/2 OCO 1/2 ACRES			Name Nome M. L. F Position Staff P Company Tenneco	rein is true and complete to the sy knowledge and belief. REEMAN roduction Analyst Oil Company y 1, 1980
			D 30-)	shown on notes of under miss true knowled Date Survivial Registers	r certify that the well location in this plat was plotted from field actual surveys made by me or y supervision, and that the same and correct to the best of my ge and belief. Professional Engineer and Surveyor
	Producing Form Dakots Treage dedication lease is syalty). The lease of distribution, with the cessary.) Will be assign, or otherwise. SF (CONC) TENT CONC 320	MPANY ton	MPANY OMLER "A" OMLER "A" 6 28N 10W Producing Formation Dakota Pool Pasin Dako reage dedicated to the subject well by colored pen one lease is dedicated to the well, outline each analyzalty). The lease of different ownership is dedicated to the valuntitization, unitization, force-pooling, etc? No If answer is "yes;" type of consolidation— "no;" list the owners and tract descriptions which has cessary.) will be assigned to the well until all interests have be, or otherwise) or until a non-standard unit, eliminating SF 077085 OTENNECO 1/2 26 Sec. 26	MPANY ton Township Renge County 6 28N 10W San J of Well: t trom the North Une and 1590 feet from the Morth Producing Formation Pool Dakota Basin Dakota one lease is dedicated to the subject well by colored pencil or hachure in the lease of different ownership is dedicated to the well, have the infunitization, unitization, force-pooling, etc? No If answer is "yes;" type of consolidation foo;" list the owners and tract descriptions which have actually bee cessary.) will be assigned to the well until all interests have been consolidated, or otherwise) or until a non-standard unit, eliminating such interests Sec. Sec. Sec. Sec. Sec. O Sec. O	MPANY County County County

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

DRILLING PROCEDURE

DATE: January 29, 1980	
LEASE: Omler A	WELL NO.: 1-E
LOCATION: 1830' FNL, 1590' FWL Sec. 26, T 28N, R 10W San Juan County, New Mexico	FIELD: Basin Dakota
ELEVATION: 5910 (D.F.)	
TOTAL DEPTH: 6580'	
PROJECTED HORIZON: Chacra-Dakota Dual	
SUBMITTED BY: DAT	E:
APPROVED BY: DAT	E: 1/27/50
went me	

CC: Administration DSB Well File Field File

ESTIMATED FORMATION TOPS

SURFACE - NACIMIENTO

Ojo Alamo	950'	(Water)
Pictured Cliffs	1970'	
Lewis	2050'	(Gas)
Chacra	2920'	(Gas)
Cliffhouse	3530'	(Gas)
Menefee		
Point Lookout	4250 '	(Gas)
Mancos	4590'	
Gallup .	5460'	(Gas & Oil)
Greenhorn	6250'	-
Dakota	6370 '	(Gas)
T.D.	6580'	

DRILLING, CASING, AND CEMENT PROGRAM

- 1. Move in, rig up rotary tools.
- 2. Drill a 12 1/4" hole to 250' \pm .
- 3. Run 9 5/8", 36#, K-55, ST&C casing to 250'.
- 4. Cement with 250 sx of Class "B" with 2% CaCl₂.
- 5. Wait on cement a minimum of 12 hours. Nipple up BOP and manifold with relief lines. Pressure test to 600 psi for 1/2 hour. Test pipe and blind rams.
- 6. Drill an 8 3/4" hole to 3200'.
- 7. Run 7", 23#, K-55, ST&C casing to 3200'.
- 8. Cement with sufficient volume to circulate cement to surface. Cement with 50/50 pozmix and tail in with 150 sx of Class "B" cement.
- 9. Wait on cement a minimum of 12 hours. Pressure test to 1000 psi for 1/2 hour.
- 10. Pick up 4 3/4" drill collar and 3 1/2" drill pipe. Drill cement & guide shoe.
- 11. Reduce hole to 6 1/4" and mud drill to total depth.
- 12. Run open hole logs as per wellsite Geological Engineer.
- 13. If productive, run 4 1/2", 10.5#, K-55, ST&C casing liner to T.D. Run a minimum of 150' overlap in 7" casing.
- 14. Cement with sufficient volume to circulate cement to liner top.
- 15. Reverse out excess cement. Lay down 3 1/2" drill pipe. Install well head.
- 16. If non-productive, P & A according to USGS regulations.
- 17. MORT.

CASING PROGRAM

Surface:

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

Intermediate:

3200' of 7", 23#, K-55, ST&C casing.

Liner:

3530' of 4 1/2", 10.5#, K-55, ST&C casing.

MUD PROGRAM

0-250' Native solids, gel chemical. Have sufficient viscosity to clean hole and run casing.

250-3200' Low solids, gel chemical.

3200-T.D. Low solids. 15 cc WL. Use sufficient viscosity to clean hole.

EVALUATION

Cores and DST's: None.

Deviation Surveys:

- 1. Survey surface hole at 100' intervals. 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 the IADC Drilling Report Sheet. Maximum allowable change in deviation is 10 per 100'.

Logs:

Cased hole TDT: Surface to 3200'.

GR/Induction/SP: 3200' to T.D.

GR/FDC: 3200' to T.D.

BLOWOUT EQUIPMENT

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

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.

- 1. 303-758-7130 (Office) Don Barnes 303-758-7287 (Office) Don Barnes' private line, Monday-Friday (before 7:45 a.m.) 303-936-0704 (Home) Don Barnes, weekends and holidays.
- 2. George Ramsey (Home) 303-771-5154.
- 3. John Owen (Home) 303-795-0221.

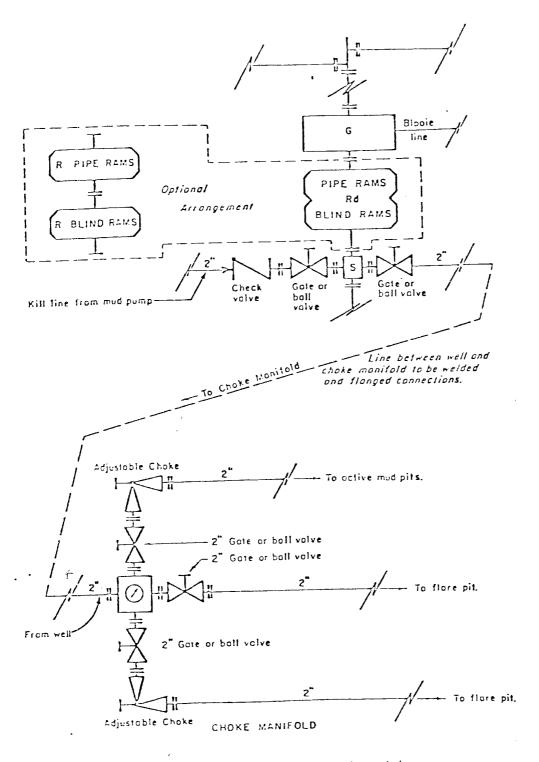
The yellow sheet of the IADC Report is to be filled out completely. The original copy of the drilling time recorder, and copies of any invoices from this well, signed and received for Tenneco Oil Company, will be mailed daily to:

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

ATTENTION: Drilling Department

IN CASE OF EMERGENCY, NOTIFY THE FOLLOWING:

- t. Mr. Don Barnes, Division Drilling Engineer.
- 2. Mr. George E. Ramsey, Jr., Drilling Engineers Supervisor
- 3. Mr. John W. Owen, Project Drilling Engineer.
- 4. Mr. Mike Lacey, Division Production Manager (Home 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 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 10-26-79 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 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 in Agmenta Canyon on rolling topography. The soil is sandy clay supporting sagebrush, greasewood, sparce juniper & native grasses. The minerals & surface are held in public domain.
- 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

TENNECO OIL COMPANY

CALCULATION SHEET

