SUBMIT IN TRIPLICATE®

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

50 - 045 - 24/25 5. LEASE DESIGNATION AND REBIAL NO.

GEOLOGICAL SURVEY						SF078049	
APPLICATIO	N FOR PERMI	TO DRILL,	DEEP	EN, OR PLUG E	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
1a. TIPE OF WORK						7. UNIT AGREEMENT NAME	
DR b. Tipe of Well	DRILL M DEEPEN D PLUG BACK D			4. USIT AGREEMENT NAME			
	GAR WELL OTHER ZONE DULTIPLE ZONE				S. FARM OR LEASE NAME		
2. NAME OF OPERATOR						Hughes "A"	
Tenneco Oil	Company					9. WELL NO.	
3. ADDRESS OF OPERATOR		20 0				6	
4. LOCATION OF WELL (I	rado Blvd., De		0222	State services (A)		10. FIELD AND POOL, OR WILDCAT	
At surface			itu uny ,	State reguirements.*)		Basin Dakota 11. SEC., T., R., M., OR BLK.	
2195 FNL 2025 FWL						AND SURVEY OR AREA	
At proposed prod. zo:	ne .					SEC 33, T29N, R8W	
14. DISTANCE IN MILES	AND DIRECTION FROM A	EAREST TOWN OR PO	ST OFFIC	E *		12. COUNTY OR PARISH 13. STATE	
8.5 miles	East South Eas	t				San Juan N.M.	
10. DISTANCE FROM PROP LOCATION TO NEARES	r		1	1920.00		OF ACRES ASSIGNED THIS WELL / 220 00	
PROPERTY OR LEASE (Also to nearest dr)	g. unit line, if any)					w/ 320.00	
18. DISTANCE FROM PROI TO NEAREST WELL, I	RILLING, COMPLETED,		1			ROTARY OR CABLE TOOLS	
OR APPLIED FOR, ON THE			1	898 ———————	<u> </u>	Rotary 22. APPROX. DATE WORK WILL START*	
	96 GR				, i	ASAP	
23.		PROPOSED CASI	NG AN	D CEMENTING PROGRA	AM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	TOOT	SETTING DEPTH	T	QUANTITY OF CEMENT	
13 3/4"	9 5/8" ne	w 36#, K−5	5	300±	Circu	irculate to surface	
8 3/4"	7" ne	_ 		3,000±	Circu	late to surface	
614"	4½" ne	w 10.5#, 1	1.6#	6,898±	Circu	late through liner hange:	
THE GAS IS IS IN ABOVE SPACE DESCRIBE zone. If proposal is to preventer program, if an 24.	EDICATED PROFOSED PROGRAM: 1 drill or deepen direction	nally, give pertinen	pen or p t data o	olug back, give data on pr n subsurface locations an	d measured	DIST. 3 uctive zone and proposed new productive and true vertical depths. Give blowout bare December 18, 1979	
M. Lee		TI	LLE TO			DATE	
tius space for rede	ral or State office use)						
PERMIT NO.				APPROVAL DATE			
APPROVED BY		#r s m	TLE			DATE	
CONDITIONS OF APPROV						DATE	
	. oh	Such				·	

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO HERGY AND MINERALS DEPARTMENT

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

Form C-102 kevised 10-1-78

es must be from the cuter houndaries of the Section

		All distances must be		THE IN THE SECTION.		Tw-11 22	
Operator			Lease			Well No.	
TENNECO OIL COMPANY			HUGHES "A" Range Count				
Unit Letter	Section	Township	I -		-		
<u>F</u>	33	29N	8w	San	Juan		
Actual Footage Loca	37	1.3-	. 202°		1.1	./	
2195		rth line on	d 2025	feet from the	West	line dicated Acreage:	
Ground Level Elev.	Producing For		Basin Dak	ota		320.00	
6096	Dakota					Acres	
 Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consoli- 							
dated by communitization, unitization, force-pooling. etc? Yes No 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 allowab	le will be assign	ed to the well until s	all interests have l	been consolidat	ed (by commun	nitization, unitization,	
forced-pool	ing, or otherwise	or until a non-stand	ard unit, eliminatir	ng such interest	s, has been ap	proved by the Commis-	
sion.							
:11111111111111111111111111111111111111	inniminimini Mariantini Ma Mariantini Mariantini Mata Mata Mata Mata Mata Mata Mata Mat		1			ERTIFICATION	
3(2025	Sand Composition of the state o		U. GEOL	OGICAL SURVEY GTON, N. M.	name M. L. F Position Staff P Company Tenneco	roduction Analyst	
Co	- SF 078049 TOC + ½ nnoco - ½ 20.00 acres		DECSS	1979 00M.————	shown on this notes of actu under my sup is true and knowledge an Date Surveyed Registered Pro- and/or land Su Fred Ba	ERED LAND	
desertation.	minimum in the same of the sam	ampout i			Certificate io:	A KENT	
0 220 200	90 1320 1650 19	80 2310 2640 2	000 1500 100	o 800 O	3950		

TENNECO OIL COMPANY

PROGNOSIS TO DRILL AND COMPLETE

DIVISION: Rocky Mountain DATE: August 14, 1979

LEASE: WELL NO.: A-6

LOCATION: 2195 FNL,2025 FWL FIELD: Basin Dakota

Sec. 33, T 29N, R 8W

San Juan County, New Mexico

ESTIMATED ELEVATION: 5920 G.L.

ESTIMATED TOTAL DEPTH: 6898'

PROJECTED HORIZON: 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% CaCl₂ 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.
- (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:

OJO Alamo	1458' (water)	Mancos	4790'
Pictured Cliffs	2426' (gas)	Gallup	5878'
Cliffhouse	4058' (gas)	Greenhorn	6614'
Menefee	4158' (gas)	Dakota "A"	6816' (gas)
Point Look Out	4650' (gas)		

ms

DRILLING MUD PROGRAM:

0-300'

Spud Mud

300'-T.D.

7" casing-low solids fresh water mud. No W.L. control.

3000'+-T.D.

Gas

CORING AND TESTING PROGRAM:

No cores or tests. Gauge 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 10 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 AAODC DRILLING REPORT SHEET. 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. 303-424-1269 (home) John Owen if Don Barnes not available

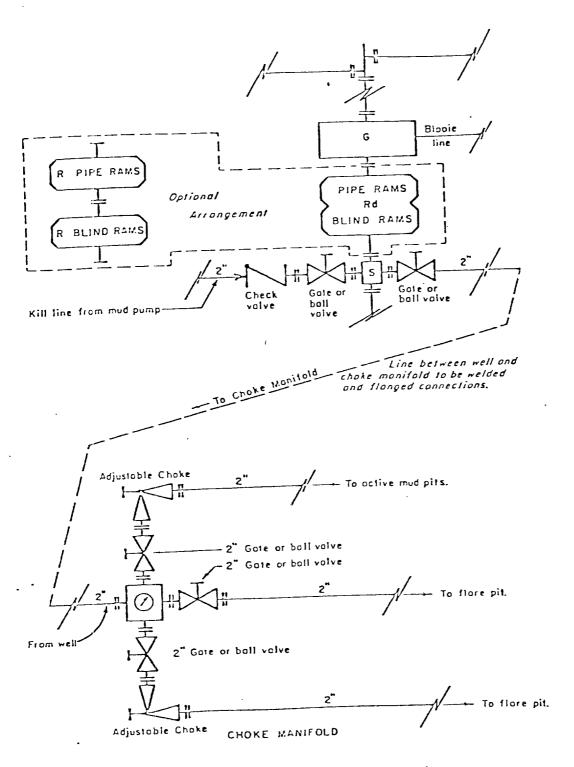
The yellow sheet of the IADC Report to be filled out completely, the original copy of the drilling time recorder, and copies of any invoices from this well signed and received for Tenneco Oil Company will be mailed daily to:

TENNECO OIL COMPANY
PENTHOUSE
720 SOUTH COLORADO BOULEVARD
DENVER, COLORADO 80222

ATTENTION: DRILLING DEPARTMENT

In case of an emergency, notify the following:

- l. Mr. Don Barnes, Division Drilling Engineer 303-936-0704.
- 2. Mr. John Owen, Project Drilling Engineer 303-424-1269.
- 3. Mr. Mike Lacey, Division Production Manager 303-979-0509.



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

- Double com type preventer with two sets of roms. Rd
- Single ram type preventer with one set of rams.
- Drilling spool with side outlet connections for choke and kill lines. R 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.

EXHIBIT DRILLING WELL SITE LAYOUT CATION 2195 FNL 2025 FNC SEC 33 729N 28W New. Accorss 5'F BUNK RESERVE MUD PITS DRILLING PIT 15°C RIG **WELL** 8 FLARE PIT PIPE RACKS 3°C BURN PARKING PIT AREA

