SUBMIT IN TRIPLICATE.

(Other instructions on reverse side)

Form approved, Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

30-045,24096
5. LEASE DESIGNATION AND REGIAL NO.
NM_05791
G. IF INDIAN, ALLOTTEE OR TRIBE NAME

APPLICATION	V FOR PERMIT	TO DRILL,	DEEP	EN. OR PL	UG F	BACK	G. IF INDIAN, ALLOTTEE OR TRIBE NAME
1a. TIPE OF WORK						, (С.	•
DR	ILL 🖾	DEEPEN		PLU	G BA	CK 🗌	7. UNIT AGREEMENT NAME
b. TIPE OF WELL				_			
MET W	ELL OTHER			INGLE	MULTIP	LE [S. FARM OR LEASE NAME
2. NAME OF OPERATOR							Dawson ''A''
Tenneco Oil	Company						9. WELL NO.
3. ADDRESS OF OPERATOR							IM _
720 S. Color	ado Blvd., Denv	er, CO 8	0222				10. FIELD AND POOL, OR WILIDATS IN
	eport location clearly and		th any S	tate requirement	ts.*)		•
At surface			•	•			Blanco Mesa Verde/Dakot
9 890 F							AND SURVEY OR AREA
At proposed prod. zon	e						Sec 4 T27N, R8W
A Dismiyan iy wiyan	AND DIRECTION FROM NEA	DOT BOILD OF FOR	-			· · · · · · · · · · · · · · · · · · ·	_
				•			12. COUNTY OR PARISH 13. STATE
	uth SouthEast o	† Blanco, N					San Juan N.M.
15. DISTANCE FROM PROPU LOCATION TO NEAREST	•		16. NO	0. OF ACRES IN L	EASE		OF ACRES ASSIGNED . HIS WELL :
PROPERTY OR LEASE L (Also to nearest drig	INE, FT. v. unit line, if any)		-	181:33		1 ./	-33
S. DISTANCE FROM PROP	OSED LOCATION*		19. rk	OFOSED DEPTH			BY OR CABLE TOOLS
TO NEAREST WELL, DE OR APPLIED FOR, ON THE	RILLING, COMPLETED, IS LEASE, FT.		1 1	5700'			
1. ELEVATIONS (Show whe			<u>' </u>	3700	•	I NOL	ary 1 22. APPROX. DATE WORK WILL START*
5918 GR							i
							ASAP
3.		ROPOSED CASI	NG ANI	CEMENTING	PROGRA	M	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	00Т	SETTING DEI	тн		QUANTITY OF CEMENT
12 3/4"	9 5/8" new	36#, K-5	5	± 200'		Circu	late to surface
8 3/4"	7" new	23#, K-5	5	_ ± 4850'		Circu	late to surface
6½"	4½" new	10.5#, 1		± 6700'		l	late through liner hange
						•	
THE GAS IS D	EDICATED						
L'AE	CEIVED DEC 26 1979 S. GEOLOGICAL SURVEY FARMINGTON, N. M.				· .	The state of the s	
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one. If proposal is to	irili or deepen directiona	roposai is to deep Ny, give pertinent	en or pi t data o:	iug Dack, give da n subsurface loca	ita on pr	esent produ d measured	active zone and proposed new productive and true vertical depths. Give blowout
eventer program, if any							and trac vertical deptate. Give plowout
SIGNED MC	Laum	717	st. St.	aff Produc	tion	Analys	tDecember 19, 197
(This space for Feder	al or State office use)						
-							
PERMIT NO.				APPROVAL DATE			
APPROVED BY							· ·
CONDITIONS OF APPROVA	AL, IF ANY:	TIT					DATE
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	- 3x 3x (E)	ok Fran	-n				

*See Instructions On Reverse Side

NMOCC

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-107 Revised 10-1-7

All distances must be from the outer houndaries of the Section.

Operator			Lease	· · · · · · · · · · · · · · · · · · ·	Well No.
TENNECO OIL COMPANY			DAWSON "A"	IM -	
Unit Letter	Section	Township	Range	County	
D Actual Footage Loc	d 4	27N	W8	San Juan	
890		austh 11	1060 fe		<u> </u>
Ground Level Elev.	Producing For	orth line and	Pool Blanco Mesa	et from the West	line Dedicated Acreage:
5918	Mesa Ver	de/Dakota	Basin Dakota		321.33
		ted to the subject we	Il by colored pencil	or hachure marks on t	
1. Oddine th	o delibago dedied	to the budget we	by voicing penetr	or machare marks on t	ne plat below.
	an one lease is	dedicated to the well	, outline each and id	entify the ownership (thereof (both as to working
		ifferent ownership is d nitization, force-poolir		have the interests o	f all owners been consoli-
Yes	No If an	iswer is "yes;" type of	consolidation		
	is "no," list the of	owners and tract descr	iptions which have a	ctually been consolid	lated. (Use reverse side of
					nmunitization, unitization,
forced-poor	ling, or otherwise)	or until a non-standard	l unit, eliminating su	ch interests, has beer	n approved by the Commis-
188111111111111111111111111111111111111		1111111111111		1	
	!) 		CERTIFICATION
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	980		1	1 1	certify that the information con-
			1	3 1	erein is true and complete to the ny knowledge and belief.
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	i		i		Framon
	+	=	<u> </u> 	Nome .	_
IICA NM	05791		1	M. L Position	Freeman
USA NM	ı		i	11	f Production Analyst
TOC 100	[%] 1		ı	Company	<u> </u>
USA NM TOC 100 321.33	acres	=	l I	Tenn	eco Oil Company
	l s	ec	1	Date Dece	mber 19, 1979
	1				
13		1	1	I hereby	certify that the well location
13	ا			shown an	this plat was plotted from field
		13 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15		notes of	actual surveys made by me or
	FINE				supervision, and that the same
(r	at U	19 🛔 /	4070	1	and correct to the best of my
	61.	' , ! \	0EC 5 8 1213	knowledg	e and belief.
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	DE CENTER OF STORY		101- 315T. 3	Date Survey	
\ !	U. FARMITTO				bor 211/1979
\ \					Prolèssional Engineer
	1		İ	and/or Land	d Burvey or
=			I	Jula	BACINOS
		•	<u> </u>		B. Kerr or
				Certificate 3950	
0 330 660	90 1320 1650 198	0 2310 2640 2000	1500 1000	00 0 3950	FERR IR

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

DRILLING PROCEDURE

DATE: December 6	6,	1979
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LEASE: Dawson A

WELL NO.: 1-M

LOCATION:

89-0' FNL, 1060' FWL Sec. 4, T 27N, R 8W

FIELD: Basin Dakota Blanco Mesaverde

San Juan County, New Mexico

ELEVATION: 5935' Est. G.L.

TOTAL DEPTH: 6700'

PROJECTED HORIZON: Mesaverde/Dakota Dual

SUBMITTED	BY:	Dale	KARNASh	DATE:	

APPROVED BY:

DJK/ms

CC: Administration

Well file Field File

ESTIMATED FORMATION TOPS

OJO Alamo	1225'	Water
Pictured Cliffs	2120'	Gas
Lewis Shale	2275 '	
Chacra	3090'	Gas
Cliffhouse	3805'	Gas
Menefee	3855'	Gas
Point Lookout	4395'	Gas
B/Point Lookout	4655'	Gas
Mancos		
Gallup	5570'	Gas
Greenhorn	6345'	
Dakota	6515'	Gas
, T.D.	6700'	

DRILLING, CASING, AND CEMENT PROGRAM

- 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 and 8 3/4" hole 150-200' into the Mancos Shale. Treat mud system for possible lost circulation before penetrating the Mesaverde.
- 7. RU and run 7", 23#, K-55, ST&C casing to 4850'. 4650
- 8. 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 6700'.
- 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. If well in non-productive, plug and abandon as per state requirements.
- 16. MORT.

CASING PROGRAM

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

0-4850' 7", 23#, K-55, ST&C

4700-6700' (3000') 4 1/2", 10.5#, K-55, LT&C

MUD PROGRAM

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

200-4850' Benex and water. Have sufficient viscosity to run casing.

Treat for possible lost circulation in Mesaverde.

4850'-T.D. Gas.

EVALUATION

Cores and DST's:

No cores or DST's are anticipated.

Deviation Surveys:

- 1. Survey surface ever 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 10 per 100'.

Samples:

Insure we have penetrated Mancos Shale 300'.

Logs:

GR/IND: T.D. to Intermediate.

GR/FDC/CAL: T.D. to base Mesaverde

TDT 300' below PC to surface.

BLOWOUT EQUIPMENT

10" series-900 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.

- 1. 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.

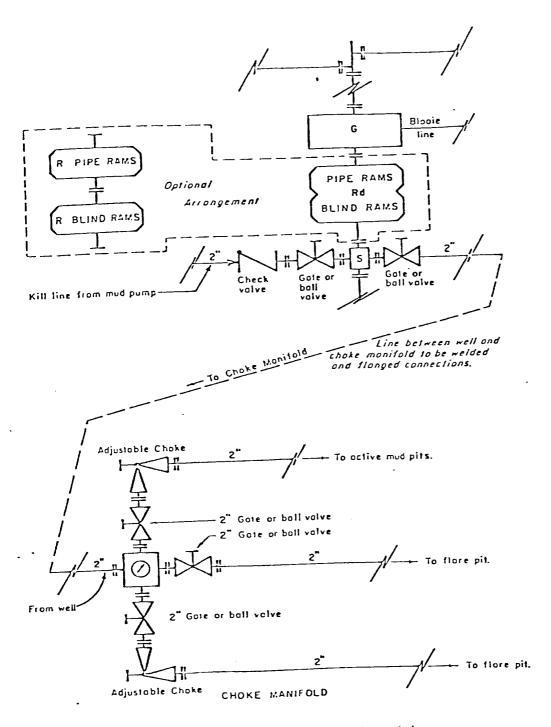
The yellow sheet of the IADC Report to be filled out completely, the original copy of the drilling time recorder, and copies of any invoices from this well, signed and received for Tenneco Oil Company will be mailed daily to:

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 roms. Rd
- Single rom type preventer with one set of roms.
- Drilling spool with side outlet connections for choke and kill lines.
- S Rotating head 150 psi working pressure minimum G

ARRANGEMENT C

TENNECO OIL COMPANY ROCKY MOUNTAIN DIVISION REQUIRED MINIMUM BLOWOUT PREVENTER AN CHOKE MANIFOLD 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 in the alluvial deposits of Fresno Canyon approximately $l\frac{1}{2}$ miles below Hollis Pass. The soil is sandy supporting primary vegetation types of pinon, juniper and various 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

LF/gh

CALCULATION SHEET

EXHIBIT CT DRILLING WELL SITE LAYOUT TO AUSON "A" IM TION 890FNC 1060FW SEC 9 T27N 28W 300'New Access ROAd 4F BUNK HOUSE RESERVE MUD PITS PIT DRILLING RIG 40' WELL FLARE PIT 5F PIPE RACKS 6 C BURN **PARKING** PIT **AREA**

THE ACCESS WILL CROSS FRESNO CANYON From The North With A LOW WATER CROSSING.

