TERMIT NO. _

APPROVED BY _

CONDITIONS OF APPROVAL, IF ANT:

CHILLING OPERATION AND THE FEE

SUBMIT IN TRITLICATE.

(Other instructions on reverse side)

Form approved, Budget Bureau No. 42-H

UNITED STATES DEPARTMENT OF THE INTERIOR

May 140)	UNIT DEPARTMEN	FOR STATE	5 NTE		гечегье яі	de)	30 - 075	.74071
	-			TOK				ON AND RESIÀL
		GICAL SURV					SF 078097	TEF ON THINE N
APPLICAT	ION FOR PERMIT	TO DRILL,	DEEP	en, or pl	.UG B	ACK_		
1a. TIPE OF WORK	DRILL 🖾	DEEPEN		PLU	G BAC	ж 🗆	7. UNIT AGREEMENT	NAME .
b. TIPE OF WELL	WELL X OTHER	•		INCLE	MULTIPI	LE [] .	S. FARM OR LEASE	.
2. NAME OF OFERATOR							Heaton Com	IIBII ~
Tenneco Oil	ATOR						9. WELL NO.	
720 South Co	lorado Boulevard, [enver, Colo	orado	80222			10. FIELD AND POOL	
720 South Colorado Boulevard, Denver, Colorado 80222 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface 990 FNL 990 FEL						Basin Dako	DE BLE.	
At proposed prod. zone				•		Sec. 30, T31	N ŘÍJW	
-	ILES AND DIRECTION FROM NEA	REST TOWN OR POI	T OFFIC	r.			12. COUNTY OR PARISE 13. STATE	
	E of Aztec, New Mex			_			San Juan	N. M.
10. DISTANCE FROM PROPUSED® LOCATION TO NEAREST LINE FT.			16. NO. OF ACRES IN LEASE 2475.61			17. NO. C	HIS WELL 320	· <u>\$</u> .
(Also to pearest drig. unit line, if any) 18. DISTANCE FROM PROPOSED LOCATION. TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.			19. PROPOSED DEPTE				STY S	
21. ELEVATIONS (Sho	w whether DF, RT, GR, etc.)						-ASAP	
23.		PROPOSED CASI	NG ANI	D CEMENTING	PROGRA	м -		3 .
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER I	700 T	SETTING DE	PTE	·	QUANTITY OF CE	
13 3/4"	9 5/8" New .	36# K-55		300 ±		Circul	ate to surface	ce
8 3/4"	7'' New	23# K-55	<i>- 1 1</i>	3500 +			ate to surface	
6111	4½" New	10.5# 11.	6#	7,080 -		Circui	ate through	i inei man
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ik above space de zone. If proposal preventer program,	SCRIBE PROPOSED PROGRAM: If is to drill or deepen direction if any.	proposal is to dec ally, give pertiner	epen or ; ot data	plug back, give d on subsurface lo	iata on pi cations ar	resent prod id measure	uctive zone and prop d and true varical de	osed new prod pths. Give bi
24.				• •	_			· ÷o:
BIGNED	Ju Jumas		St.	aff Produc	tion /	Analyst	12-0	o-/9·
M. Le	r Federal or State office use)						•	··:.
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TITLE .

APPROVAL DATE _

DATE_

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-107 Revised 10-1-78

STATE OF NEW MEXICO ENERGY AND MINERALS DEFARTMENT

		All distances must be f	rom the cuter bound	fortes of the Section.		
Operator		<u>~</u>	Lease			Well No.
TENNECO OIL	COMPANY		HEATON	Com "B"		
	Section	Township	Range	County	_	
A	30	31N	11W	San	Juan	
Actual Footage Local	tion of Well:				D4	,
990		orth line one	990	feet from the	East	Dedicated Acreage:
Ground Level Elev.	Producing Fo	motion	Pool	Daloka		320.00 - Acres
5938		kota	1	Dakota		l
1 0 11- 11-	acreage dedica	ited to the subject	well by colored	pencil or hachure	marks on th	ne plat below.
2. If more tha	an one lease is	dedicated to the we	ell, outline each	and identify the	ownership t	hereof (both as to working
interest and						
	1	lifferent ownership i	s dedicated to the	e well, have the	interests of	f all owners been consoli-
3. If more that	n one lease of o	mitization force-poo	ling. etc?	•		
dated by co	ommunitization,	unitization, force-poo	,,,,,,		•	
□ Vaa	□ No If a	inswer is "yes;" type	of consolidation	a a		
Yes						
If answer i	s "no!" list the	owners and tract de	scriptions whicl	n have actually be	en consolid	lated. (Use reverse side of
1						
		ned to the well until	all interests hav	re been consolida	ted (by con	nmunitization, unitization,
dawoile ovi	ing of otherwise	or until a non-stand	ard unit, elimin	ating such interes	ts, has been	n approved by the Commis-
sion.	ing, or other in	, •• ••				
\$100.				mmmmmE		CERTIFICATION
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TENNECO OIL COMPANY

PROGNOSIS TO DRILL AND COMPLETE

DIVISION: Rocky Mountain DATE: July 6, 1979

LEASE: Heaton Com "B" WELL NO.: 2

LOCATION: 990' FNL, 990' FEL FIELD: Basin Dakota Section 30, Township 31N, Range 11W

San Juan County, New Mexico

ESTIMATED ELEVATION: 5920

ESTIMATED TOTAL DEPTH: 7,080'

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 3500'+. Run 7", 23\dark 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 guage 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.

DRILLING MUD PROGRAM:

. Spud mud 0-3001

Low solids fresh water mud. No WL control. 300-3500°

3500+-T.D.

CORING AND TESTING PROGRAM:

No cores or tests. Guage natural flow from the Dakota.

DEVIATION SURVEYS:

- Survey surface hole at 100' intervals. Maximum allowable deviation at 250' is $\frac{1}{2}$ 0.
- 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 1° 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.

From 300' to T.D. asper U.S.G.S. requirements. BOP: PREVENTORS MUST BE CHECKED FOR OPERATION EVERY 24 HOURS, AND THE CHECK MUST BE RE-CORDED ON THE AAODC DRILLING REPORT SHEET.

ESTIMATED FORMATION TOPS The surface formation - Nacimiento

Ojo	1500'	(water)
Pictured Cliffs	2670 '	(gas)
Cliffhouse	4059	(gas)
Menefe e	4233'	(gas)
Point Lookout	4739	(gas)
Mancos	4873'	
Gallup	6060 '	
Greenhorn	6753'	
Dakota "A"	693 5'	(gas)
T.D.	7104'	

No abnormal temperatures, pressures or geologic hazards are expected.

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 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

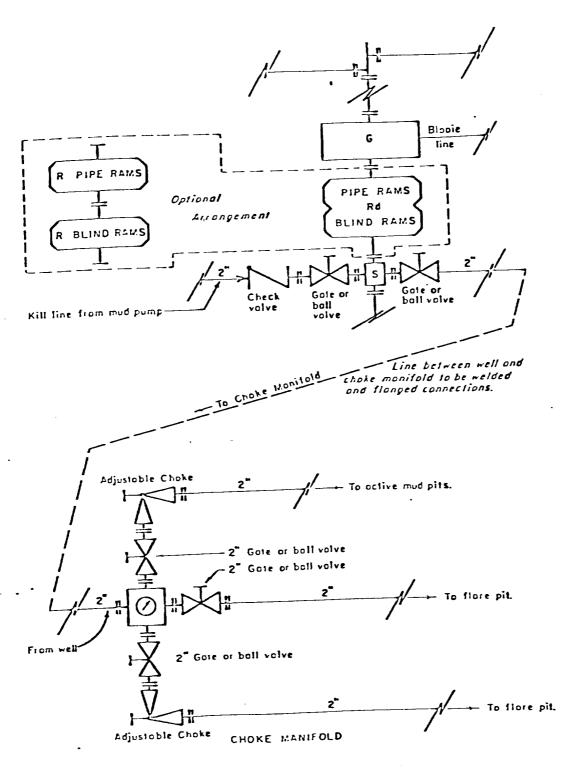
The yellow sheet of the IADC Report to be filled out completely, the original copy of the drilling time recorder, and copies of any invoices from this well signed and received for Tenneco Oil Company will be mailed daily to:

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

ATTENTION: DRILLING DEPARTMENT

In case of an emergency, notify the following:

- 1. Mr. Don Barnes, Division Drilling Engineer 303-936-0704.
- 2. Mr. John Owen, Project Drilling Engineer 303-424-1269.
- 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. Rđ
- 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 10-26-79 EVI J. MAGILL .

- 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 ! 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 broken slope with westerly drainage. The soil is sandy clay loams. The principal vegetation consists of juniper, Pinon, Sage, grasses, snakeweed, mormon tea and greasewood.
- 12. Operator's Representative -
- 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 El Paso Natural Gas 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

EXHIBIT

SUBJECT DRILLING WELL SITE LAYOUT HEATON CON"B" # 1

LOCATION 990 FNL, 990 FEL SEC 30, T3/N, R/IW DATE 12-5-79

