## Form approved, Budget Bureau No. 42-R1425.

# UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

	50	> -	04	<-	-	43	4	75
5.	LEASE	DES	GNATIC	N ANI	SER	IAL	NO.	_ `
	USA	08	0245					

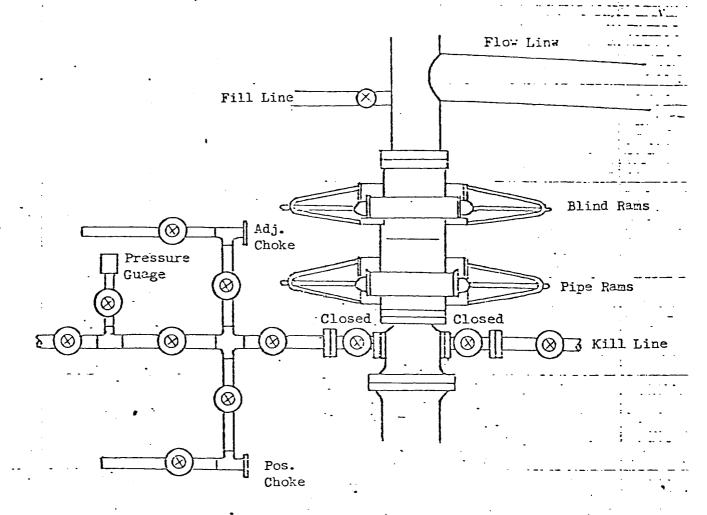
APPLICATION	I FOR PERMIT T	O DRILL, I	DEEP	EN, OR P	LUG B	ACK	6. IF INDIAN, ALLOTTI	EE OR TRIBE NAME
a. TYPE OF WORK  DRI	LL 🏻	DEEPEN		PLI	JG BAC	кП	7. UNIT AGREEMENT	NAME
	S OTHER			INGLE DAR	MULTIPI ZONE	LE X	8. FARM OR LEASE NA	A M E
name of operator  Tenneco	Oil Company					-	9. WELL NO.	
. ADDRESS OF OPERATOR	- OII COMPANY						14	34
720 Sou	th Colorado Blv	d., Denver	, Col	orado 80.	222	-	10. FIELD AND POOL,	OR WILDCAT
L LOCATION OF WELL (R. At surface	eport location clearly and	in accordance wi	th any S	State requireme	nts.*)		Basin Dakot Blanco Mesa	
At proposed prod. zon	e 1545' FLN,	990'FWL					11. SEC., T., B., M., OR AND SURVEY OR A	REA
_	and direction from NEAR nt 1B Surface U		T OFFIC	F*			Sec. 29, T29	H 13. STATE
5. DISTANCE FROM PROPO		Se Plan	16. N	D. OF ACRES IN	LEASE	17. NO. O	San Juan	New Mexic
LOCATION TO NEAREST PROPERTY OR LEASE L (Also to nearest drig	INE, FT.						TIC WEST (	88.45
18. DISTANCE FROM PROP TO NEAREST WELL, DO OR APPLIED FOR, ON THE	OSED LOCATION* RILLING, COMPLETED,		19. P	ROPOSED DEPTH 6600		20. ROTAR	RY OB CABLE TOOLS Rotary	
21. ELEVATIONS (Show who		5687 (	GL		<del></del>	<u> </u>	22. APPROX. DATE W September 1	
	ing di paramanan di Persangan di Persangan di Persangan di Persang	ROPOSED CASI	NG AN	D CEMENTING	PROGRA	· ·M··································	<u> </u>	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F		SETTING D		1	QUANTITY OF CEMI	ENT
13 3/4"	9 5/8"	36#		250+		250 SX	CL B w/2%CAC	
8 3/4"	7"	23#		4750+			to circulate	
6 1/4"	4 1/2"	10.5#		6600+	•	,	to circulate	
	cal name of the	surface fo	ormat	ion is Te	rtiary	San Jo	se	
3. Estimated Fo				<b>.</b>	t 3	<b>^-</b> -	20	
Pictured Cli: Cliffhouse	ffs 2078 3753			Lewis S	hale	218 ' 452		
Gallup	5526			Mancos Greenho	rn	452 627	_	
Dakota A	6402			Total D		660		
Run 9 5/8" 30	5#, K-55 ST&C c	sg to 250 <u>+</u>	and	circulate	cemen	t to su	rface. Drill	. 8 3/4"
	Run 7" 23#, 1							ace.
	with 6 1/4" bi							If
	run 4 1/2" csg			600. Cem	ent wi	th suff	icient volume	to
	ment to liner to entors: Hydrau	-		10" 0	ne sot	of ram	oc will be pre	wided for
	ill pipe in the							
	line will be 2							
	installed, tes							
	nall be maintai							
	and test will 1							
Checked every	24 hours. Al	L rig equip	pment	will be	tested	to abo	ve BOE rating	s.
250-4750 Lo	e solids with so v solids, Gel cl	nemical	/lsco	of circu	lean no	through	h Mosa Vario	
	cicipated.	Temperation .	(1033	or circu	1401011	ciiroug	in Mesa Value	- <b>A</b> 3 35 5 6 <b>A V</b>
Auxiliary Equ							100	251979
2 Volly go	ale will be in m	se at all t	imes	•			/ APT	and possible
b. Stabbing	valve to fit d	rill pipe v	vill :	be presen	t on f	loor at	all times!	JUM, Marina Demografia
C. Mud monii	coring will be	visual, no	abno	rmal pres	sures a	are ant	icipated in t	Mis area.
<pre>d. Floats at e. Drill st</pre>		70(c) +0 f		l nino is	+hc =	ر. الم	mina est 11 1	The same of the sa
	ring safety valv ig floor while o						TING WITT DE	maintained
	head will be us				-	J = U D D •		
No cores or I	OST's are antipa	ated. 10'	samp	les will 1	be take			
	from T.D. to in	ntermediate	e cas	ing. GR/	FDC/Cal	liper f	rom T.D. to b	ase of
Mesa Verde.	W0000000 +	mnores <del> </del>	<b>5</b>	and also to	- د.		<b>.</b>	
prevention eq	pressures or ter quipment.	uperatures	are	anticipate •	ea. Se		t 5 for blowo	ut
The drilling	of this well wi Union Gas Compar							contracted
w <sub>1</sub> bouchern (	on ous compar	*1° (LOT		ACTOR OIL	_	e4 11 1		
—						r s parsa		
one. If proposal is to	PROPOSED PROGRAM: If p drill or deepen directiona							
reventer program, if any	••						<u> </u>	<del></del>
BIGNED	, fanny	TI	TLE	Div. Pro	duction	n Manag	er DATE 4-	20-79
(This space for Fede	ral or State office use)							
DED.V. T. NO.		- 1		Annor				
MV NWU-15	7 20	152-45 M	Tāc	APPROVAL DATE		,		<del></del>
1 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1		'U'		$\sim$				

## NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

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

Operator		<del></del>	Lea	se	_		Well No.
TENNECO OIL COMPANY			F	HAMNER			150 3 A
Unit Letter	Section	Township		Range	County		
E	<b>2</b> 9	29N		9W	San	Juan	
Actual Footage Loc	ation of Well:	••		_			
1545	feet from the		md 990		t from the	West	line
Ground Level Elev: 5687	Producing For	Mesa Verde	Poo.	1 Busin 15	le	] '	Dedicated Acreage:
					144.0		288.45 Acres
2. If more th interest ar	an one lease is id royalty).		well, oi	utline each and id	entify the c	ownership th	nereof (both as to working all owners been consoli-
dated by control Yes  If answer this form in No allowates	ommunitization,  X No If a is "no," list the f necessary.)	unitization, force-p nswer is "yes," typ owners and tract d ed to the well unti	ooling.  De of collescript	etc?  onsolidation  ions which have a  erests have been	ctually bee	en consolida	ated. (Use reverse side of munitization, unitization, approved by the Commis-
sion.							CERTIFICATION
	15451					tained he	certify that the information con- rein is true and complete to the y knowledge and belief.
		J 38.38 NOCOSec.		! ! !		Company Tenneco  Date	mental Coordinat O Oil Company
	TEN. USA 0	NECO E				shown on notes of under my is true o	certify that the well location this plat was plotted from field actual surveys made by me or supervision, and that the same and correct to the best of my and belief.
	ີ່ຜູ້ເຊິ່ງນູນ	វ្តីពិពេលមិ				March Registered and Lard Free Certificate	Professional Elegander



All valves 2"

All BCPs, flanges, spools, valves, & lines must be series 900 or 3000 psi working press.

Choke manifold must be at ground level and extended out from under substructure.

TENNECO OIL COMPANY

REQUIRED MINIMUM BLOWOUT PREVENTOR

HOOKUP

Denver, Colorado

#### 1. Existing Roads

- A. Proposed Well Site Location: The proposed well site location was surveyed and staked by a registered land surveyor and is located 1545' from the north line and 990' from the west line, Section 29, T29N, R9W, San Juan County, New Mexico. (See Exhibit I, Surveyor's Plat.)
- B. Planned Access Route: planned access route beings in Blanco, New Mexico and goes east for approximately 1.5 miles, at the juction of the dirt road which goes SE. Follow this dirt road for approximately 4 miles to the fork, take the right fork and (See Page 2-A attached hereto and made a part hereof.)

C. Access Road Labelled:

Color Code: Red - Improved Surface Blue - New Access Road

- D. Not applicable the proposed well is a development well.
- E. The proposed well is a development well. See Exhibit II for existing roads within a one mile radius.
- F. Existing Road Maintenance or Improvement Plan: The existing roads will require minimal maintenance.

#### 2. Planned Access Roads

(All roads are existing roads.)

- A. Width:
  The average width of the road is twenty feet.
- B. Maximum Grades: The maximum grades will be 6%.
- C. Turnouts:
  There are no turnouts planned as sight distance is sufficient.
- D. Drainage Design: The road is center crowned to allow drainage. The road is flat primarily.
- E. Culverts Use Major Cuts and Fills: No culverts or major cuts and fills will be needed to construct this road.
- F. Surfacing Material:
  Native soil has been wetted, bladed and compacted to make the road surface, which is existing.

HAMNER 10 Page 2-A

#### 1. Existing Roads

B. Planned Access Route:

proceed for an additional 1.5 miles through 5-Mile Crossing. The
road then bends back and goes back NW, continue around on this
road for an additional 4.5 miles. At this point the new access
road to the proposed well site location will begin. (See Exhibit III.)

## Planned Access Roads (Cont'd)

- G. Gates, Cattleguards, Fence Cuts: No gates, cattleguards or fences will be needed.
- H. New Roa'ds Centerlined Flagged: Existing Roads.

## Location of Existing Wells

The proposed well is a development well. Exhibit IIIshows existing wells within a one mile radius.

- A. Water Wells: None
- B. Abandoned Wells: None...
- C. Temporarily Abandoned Wells: None
- D. Disposal Wells: None
- E. Drilling Wells: Exhibit III
- F. Producing Wells: See Exhibit III
- G. Shut-In Wells: None
- H. Injection Wells: None
- I. Monitoring or Observation Wells: None.

#### 4. Location of Existing and/or Proposed Facilities

A. Existing facilities within one mile owned or controlled by Lessee/Operator:

- (1) Tank batteries N/A
   (2) Production facilities See Exhibit III
- (3) Oil Gathering Lines N/A (4) Gas Gathering Lines - N/A
- (5) Injection Lines -/ N/A
- (6) Disposal Lines N/A

- B. New facilities in the event of production:
  - (1) The new facilities will be within the dimensions of drill pad.
  - (2) Dimensions are shown on Exhibit IV.
  - (3) Construction Materials/Methods:
    Construction materials will be native to the site.
    Facilities will consist of a well pad.
  - (4) Protection of Wildlife/Livestock: The new facilities will be fenced as needed.

## 4. Location of Existing and/or Proposed Facilities (Cont'd)

- B. New facilities in the event of production: (cont'd)
  - (5) New facilities will consist of a wellhead, tank and production unit.
- C. Rehabilitation of Disturbed Areas:
  Following the completion of construction, those areas required for continued production will be graded to provide drainage and minimize erosion. Those areas unnecessary for use will be graded to blend with surrounding topography per BLM recommendations.

#### 5. Location and Type of Water Supply

- A. Location and type of water supply:
  Water will be hauled from a private source.
- B. Water Transportation System: Water trucks will be used.
- C. Water wells: N/A.

#### 6. Source of Construction Materials

- A. Materials:
  Construction materials will consist of soil native to the site. Any topsoil, if present, will be stripped and stockpiled as needed.
- B. Land Ownership;
  The planned site and access road is on federal land administered by the Bureau of Land Management.
- C. Materials Foreign to the Site: N/A.
- D. Access Roads: No additional roads will be required.

## 7. Methods for Handling Waste Disposal

- A. Cuttings:
  Cuttings will be contained in the reserve pit.
- B. Drilling Fluids: Drilling fluids will be retained in the reserve pit.
- C. Produced Fluids:

  Produced fluids, including produced water will be collected in the reserve pit. Any small amount of hydrocarbon that may be produced during testing will be retained in the reserve pit. Prior to clean up operations, the hydrocarbon material will be skimmed.

## 7. Methods for Handling Waste Disposal (Cont'd)

- D. Sewage:
  Sanitary facilities for sewage disposal will consist of at least one pit toilet, during the driller operations.
  The pit will be backfilled immediately following completion of the drilling operation.
- E. Garbage:
  There probably will not be much putriscible garbage to dispose of. However, it will be disposed of along with the refuse in a constructed burn pit, which will be fenced. The small amount of refuse will be burned and the pit will be covered with a minimum 36 inch cover upon completion.
- F. Clean-Up of Well Site:
  Upon the release of the drilling rig, the surface of the drilling pad will be prepared to accommodate a completion rig, if testing indicates potential productive zones. In either case, the "mouse hole" and "rat hole" will be covered to eliminate a potential hazard to livestock. The reserve pit will be fenced to prevent entry of livestock until the pit is backfilled. Reasonable clean up will be performed prior to final restoration of the site.

#### 8. Ancillary Facilities

None required.

## 9. Well Site Layout

- A. Exhibit IV.
- B. Location of pits, etc. See Exhibit IV.
- C. Rig orientation etc. See Exhibit IV.
- D. Lining of pits: Pits will not be lined. They will be covered with a fine mesh netting, if necessary, for the protection of wildlife if fluids are found to be toxic.

## 10. Plans for Restoration of Surface

A. Reserve pit clean up:
The pit will be fenced prior to rig release and shall be maintained until clean up. Prior to backfilling any hydrocarbon material on the pit surface will be removed. The fluids and solids contained in the pit shall be backfilled with soil excavated from the site and with soil adjacent to the reserve pit. The restored surface of the reserve pit will be contoured as needed to minimize erosion. The reserve pit area will be seeded per BLM recommendations during the appropriate season following final restoration of the site.

## 10. Plans for Restoration of Surface (Cont'd)

- B. Restoration Plans Production Developed:
  The reserve pit will be backfilled and restored as described under I,tem A. In addition, those disturbed areas not required for production will be graded to blend with the surrounding topography, and seeded, per BLM recommendations. The portion of the drill pad required for production and turning areas will be graded to minimize erosion and provide access to production facilities under inclement conditions. Following depletion and abandonment of the site, restoration procedures will be those under Item C. below.
- C. Restoration Plan No Production Developed:
  The reserve pit will be restored as described above. With no production developed, the entire surface disturbed by construction of the drilling pad will be restored. The site will be contoured to blend with the surrounding topography. The site will be seeded according to BLM recommendations. If the new access road is not required for other development plans, it will be obliterated and restored and seeded per BLM recommendations.
- D. Rehabilitation Time Table:
  Upon completion of operations the intial clean up of the well site will be performed. Final restoration of the site will be performed as soon as possible according to procedural guidelines published by the USGS and BLM. Seeding of the disturbed areas which are no longer required will be performed during the appropriate season, following final restoration.

#### 11. Other Information

- A. Surface Description: The surface description of the proposed well site location is relatively flat with an abundance of sagebrusch throughout. Also there are some cedar trees at the area.
- B. Surface Use Activities:
  The surface is federally owned and managed by the BLM. The predominant surface use is mineral exploration and production.
- C. Proximity of Water, Dwellings and Historical Sites:
  - 1. Water:
    - There are no reservoirs or streams in the immediate area.
  - Occupied Dwellings: There are no occupied dwellings or buildings in the area.
  - Sites:
     An archeological reconnissance has been performed for this location and clearance has been granted.

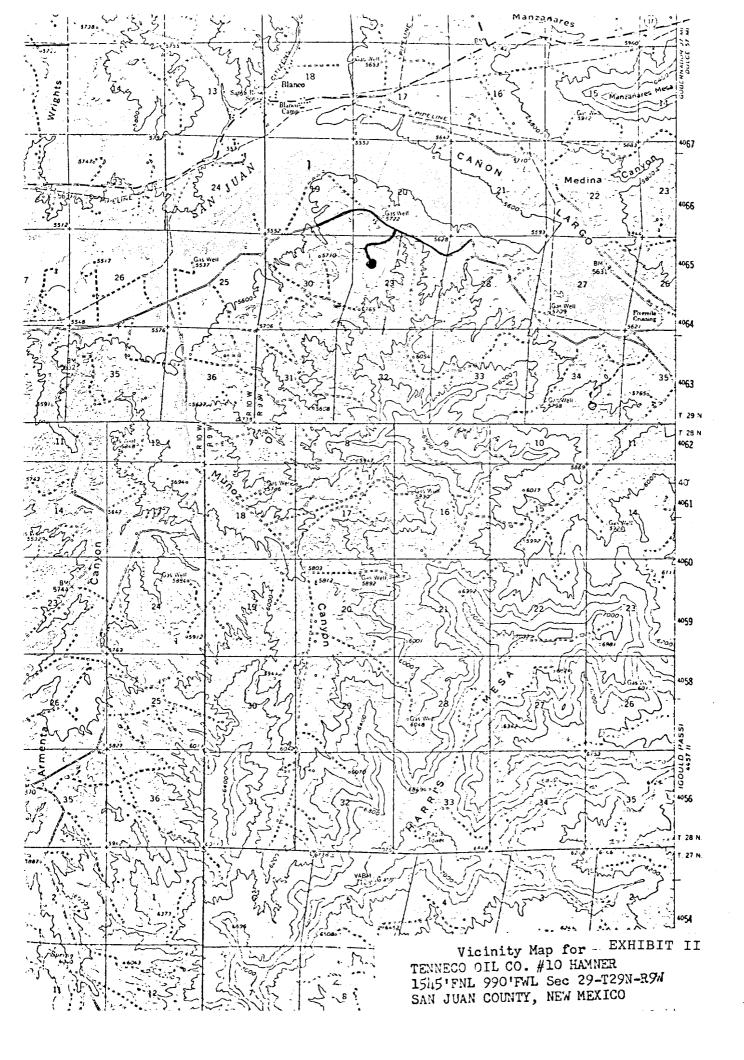
## 12. Operator's Field Representative

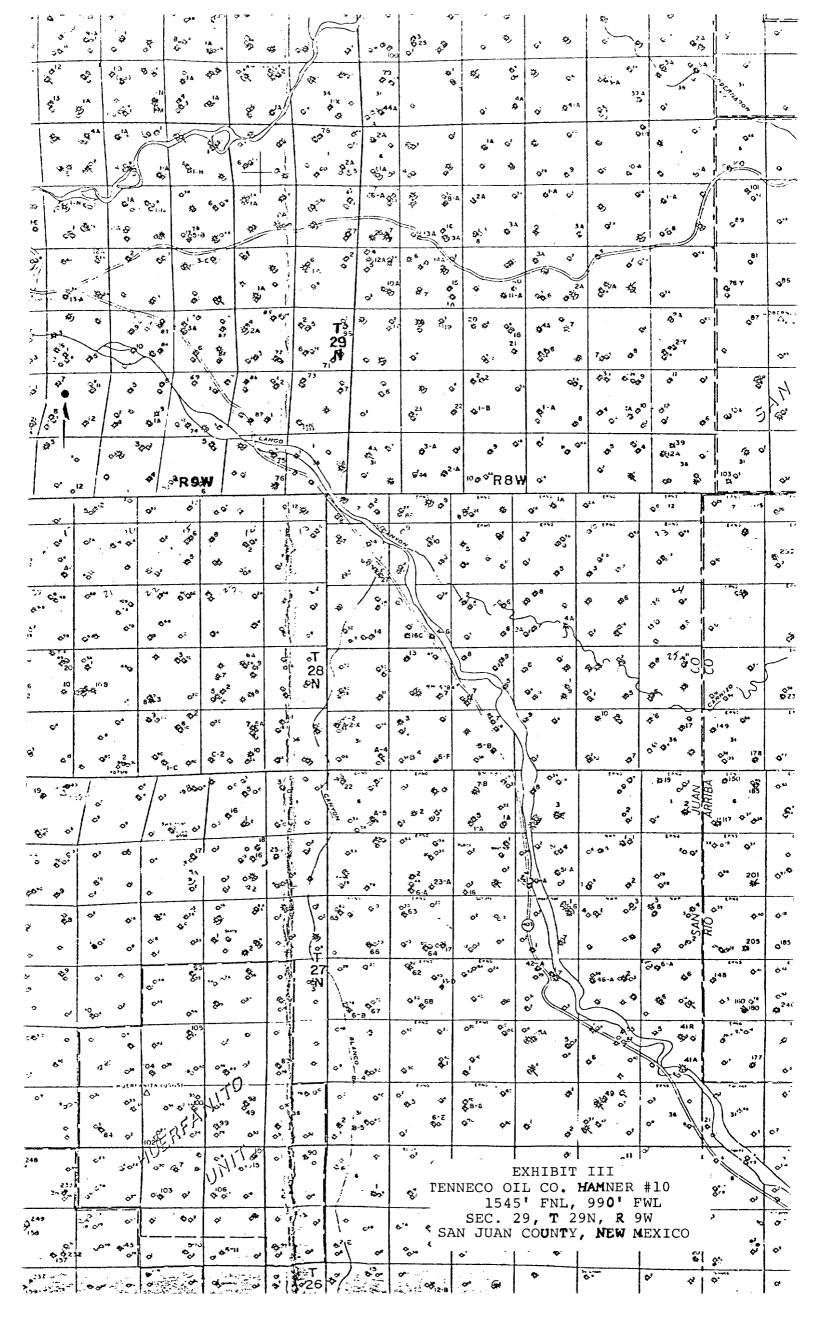
Donald S. Barnes
Division Drilling Engineer
Tenneco Oil Company
720 South Colorado Blvd.
Penthouse
Denver, CO 80222
(303) 758-7130 Ext. 212

#### 13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions as they actually exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the proposed work performed by Tenneco Oil Company and its contractors and subcontractos will conform to this plan.

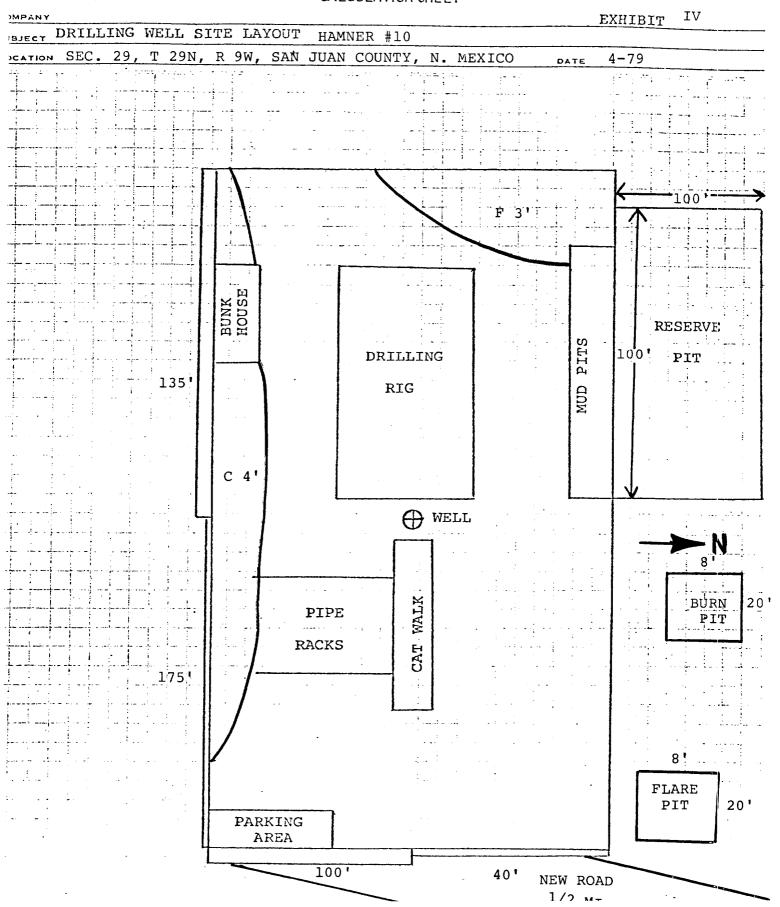
Date:	9-20-79	In Jung
	<del></del>	
		J. M. Lacey Division Production Manager
		Division Production Manager





#### TENNECO OIL COMPANY

#### **CALCULATION SHEET**



## ENERGY AND MINERALS DEPARTMENT



BRUCE KING GOVERNOR LARRY KEHOE SECRETARY

#### OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE April 30, 1979

1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178

Tenneco Oil Co. Galleria Bldg. 720 S. Colorado Blvd. Denver, CO 80222

				NWU 3- 800
SUBJECT:	NON-STANDA	RD GAS PRORAT	CN UNIT CONSISTING	OF288.45
		₩ <u>z</u> Basin Da		GAS
		IBED AS FOLLOW		
			-	
	TOWNSH IP	29 NORTH, RA	ANGE 9 WEST, NMP	<u>M</u>
	SECTION:	29	W/2	
		, pula 5 (8) o	f Order R-1670, as a	mended, the above-
			s non-standard gas p	
		Hamner	a flori-s candar o geo p	
be dedicated to			1545/n; 990/w	of said
well no.		, located	15.5711, 550711	· · · · · · · · · · · · · · · · · · ·
Section 29	•			·
			<u>, , /</u>	
			aller	Ariole
			Supervisor, Distric	t #3

xc: Oil Conservation Division Santa Fe, New Mexico