1&3

Form approved.

JAN : 1979

DATE January 10, 1979

	(May 1963)			_	(Ot)	her instruct		Bu	dget Bureau	No. 42-R1425.		
	· · · ·		ED STATES		nion.	reverse sid	le)	301	79 5-2	<sup>9</sup> 336a		
	•	DEPARTMENT	_					5. LEASE DESIGNATION AND SERIAL NO. USA NM-03549				
	GEOLOGICAL SURVEY  USA SF-080112 6. If INDIAN, ALLOTTER OR TRIBE NA											
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK												
	DRI D. TYPE OF WELL	LL 🖾	DEEPEN		PL	UG BAC	к 🗆	7. UNIT A	GREEMENT N	ME		
		KLL X OTHER			INGLE	MULTIPL ZONE	E 🗌	8. FARM O	R LEASE NAM	12		
	2. NAME OF OPERATOR	KLU CE OTHER		<i>-</i>	<u> </u>	202		Goocl	า			
	Tenneco Oil (	Company						9. WELL 1	10.			
	3. ADDRESS OF OPERATOR											
		lorado Blvd, De			New to accord to the second to			Basin Dakota				
	4. LOCATION OF WELL (Re	eport location clearly and 50' FNL and 251		th aby	n any State requirements.				11. SEC., T., R., M., OR BLK.			
			O FEE					AND S	URVEY OR AR	EA		
	At proposed prod. zone						Sec.	29, T28	N, R8W			
	14. DISTANCE IN MILES A	AND DIRECTION FROM NEAR	EST TOWN OR POS	T OFFIC	E.		<del></del>	1	OR PARISH			
	See point 1B	Surface Use Pl	an					San (	Tuan	New Mexic	<b>30</b>	
	15. DISTANCE FROM PROPO LOCATION TO NEAREST			$N \int_{320}^{70 \text{ T}}$				OF ACRES ASSIGNED THIS WELL				
	PROPERTY OR LEASE L. (Also to nearest drig	INE, PT.										
	18. DISTANCE FROM PROPORTO NEAREST WELL, DE	OSED LOCATION®										
	OR APPLIED FOR, ON THE	S LEASE, FT.		<u> </u>	6770 <b>'</b>			Rotary				
=_	21. ELEVATIONS (Show when 5887 G.L.	ether DF, RT, GR, etc.)						22. APPE	OX. DATE WO	RK WILL START	`-	
272	23.									<del></del>	-	
<u>.</u> .			ROPOSED CASI	NG AN	D CEMENTING	PROGRA	M			· · · · · · · · · · · · · · · · · · ·		
	SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	<b>T00T</b>	SETTING I	ЕРТН		QUANT	ITY OF CEMEN	T .		
	13-3/4"	9-5/8"	36#_		<u>+ 250</u>		Suff	icient t	o circu	late to sur	cface	
	<u>7-7/8"</u>	4-1/2"	10.5	ŧ	<u> + 677</u>	0'	Sull	icient t	o circu	late to sur	riace	
	The geologic r	ame of the sur	l Face format	ion	is San Jo	se Eoce	ne.					
83				-								
	Pictured Cliff	<u>+</u> :	2200 <b>'</b>		Graneros		-	+ 6430'				
	Mesa Verde-				Greenhor	n		6480 <b>'</b>				
	Cliffhouse	<del>-</del>	3830'		Dakota		_	6520'				
	Menetee Point Lookout	Menefee + 3920' Point Lookout + 4450'			T.D. $\pm$ 6770' Possible oil/ga					e oil/gas p	prod.	
	Gallup											
	_		5640' <sup>.</sup> ng to + 250	an(	d circula	te ceme	nt to	surface	. Run	4-1/2" OD.	J-55	
	new casing to	Run 9-5/8" OD, K-55 new casing to $\pm$ 250' and circulate cement to surface. Run 4-1/2" OD, J-new casing to 6770' and cement in two stages. Place DV tool at $\pm$ 4600' and cement with								0.0.0		
	sufficient vol	ume to circulat	te cement t	o su	rface. T	ail in	first	- stage w	ith 200	sx neat.		
		.l be 10" API a										
•	Blowout Preven	Blowout Preventors: Hydraulic, double ram, 10". One set of rams will be provided for each									ch	
	size arili pip	size drill pipe in the hole. One set of blind rams at all times. Fill line will be 2", kill line will be 2", choke relief line will be 2" with variable choke. BOPs will be installed, tested and in working order before drilling below surface casing and shall be maintained ready										
	for use until drilling operations are completed. BOPs, drills and tests will be recorded in the IADC Drilling Report. They shall be checked every 24 hours. All rig equipment will be											
	tested to above BOE ratings.											
•	Mud Program:	Mud Program: 0-250' Native solids, spud mud should have sufficient viscosity to clean hole										
	and run surface casing. 250 - T.D low solids. Maintain water loss control throughout											
	10/15 cc. Loss circulation can be anticipated through Mesa Verde and Gallup zones.											
•	Auxiliary Equipment											
	<ul><li>a. Kelly cock will be in use at all times.</li><li>b. Stabbing valve to fit drill pipe will be present on floor at all times.</li></ul>											
	d. Floats at	·										
		ng safety valve					ll str	ing wil	1 be ma:	intained on	the	
	rig floor while drilling operations are in progress.											
		f. Rotating head will be used while drilling with gas.									–	
•	No cores will be taken. GR-FDC-CNL-Caliper T.D. to base of Mesa Verde. GR-Induction SP-SN-T.D to surface casing.									N-T.D.		
_		essuras or temp	eratures =	re ar	nticinato	3 500	noin+	. #5 for	hlowout	t preventio	vn	
•	equipment.		crucures a	al al	···rorbare(	. see	POTIT	. nJ LUI	~±0₩0u1	- Playencio	-11	
0.		f this well wil	.l take app	roxi	mately ter	n days.	The	gas is		contracted	i.	

IN ABOVE SPACE DESCRIBE PROCESM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

(This space for Federal or State office use)

Div. Production Manager

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

Form C-10? Supersedes C-12B Effective 1-1-15

All distances must be from the outer houndaries of the Section Well 115. Camater 1 0 190 GOOCH TENNECO OIL COMPANY County 'Init Letter Section Fownship Hange San Juan 28N Actual Footage Location of Well: East 2510 1350 North feet from the line and feet from the Itn. Dedicated Acreage; Preducing Formation Ground Level Elev. 320 Acres Basin Dakota 5887 Dakota 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? Communitization in progress. X 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 allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commis-\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. TENNECO USA NM 03549 TENNECO USA SF 080112 25101 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. JAN 191979 Date Surveyed OIL CON. COM.

1320 3622

F#82 2310

2000

#### GOOCH #2

#### Existing Roads

A. Proposed Well Site Location:

The proposed well site location was staked by a registered professiona land surveyor and is located 1850' FNL and 2510' FEL, Section 29, T28N R8W, San Juan County, New Mexico. (See Surveyor Plat).

- B. Planned Access Route: The planned access route begins in Blanco, NM and goes east for 1.5 miles to a fork in the road to the right. Continue on this for 2.75 miles to another fork to the right and 1.0 mile to Five Mile Crossing, proceed through this crossing and go southeast(left) for approximately 5.5 miles to the junction of a dirt
- C. Access Read Labelle St. /road to the southwest. Go on this for 0.5 /mile to the well site location.

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 six percent.
- 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:
  There will be approximately a six foot cut on the SW side of the location and an approximate six foot fill on the NW side of the location. No culverts will be needed.
- F. Surfacing Material:
  Native soil has been wetted, bladed and compacted to make the road surface, which is existing.

#### Planned Access Roads (Cont'd) 2.

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

#### Location of Existing Wells 3.

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

- Water Wells: None. Α.
- Abandoned Wells: None. . В.
- Temporarily Abandoned Wells: None. C.
- Disposal Wells: None. D. Drilling Wells: None.
- Ε. Producing Wells: See Exhibit III. F.
- Shut-In Wells: None... G.
- Injection Wells: None. Η.
- Monitoring or Observation Wells: None. I.

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

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

See Exhibit III.

- Tank batteries n/a. (1)
- Production facilities See Exhibit III. (2)
- Oil Gathering Lines n/a. (3)
- Gas Gathering Lines n/a. (4)
- Injection Lines -/ n/a. (5)
- Disposal Lines n/a.
- В.
- New facilities in the event of production:
  (1) New facilities will be within the dimensions of the drill pad. (1)
  - Dimensions are shown on Exhibit IV. (2)
  - Construction Materials/Methods: (3) Construction materials will be native to the site. Facilities will consist of a well pad.
  - Protection of Wildlife/Livestock: (4)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 tank, production unit and well head.
- 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 private land owned by E. C. Pacheco who has signed a landowner agreement.
- 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. See 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 Item 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 is relatively flat with no major cuts or fills needed.
  Largo Canyon is a half mile to the northeast.
- 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:
  - 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

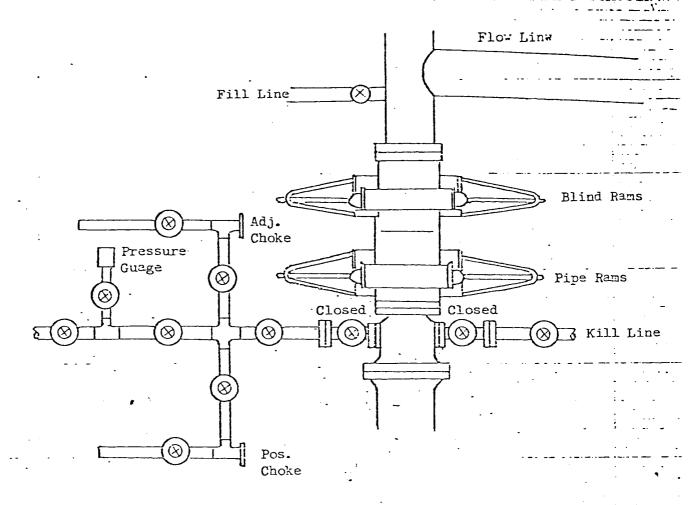
#### 13. Certification

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: 1-12-79	W. D. Myers
Date.	D. D. Myers
	Division Production Manager

10 1

١



All valves 2"

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

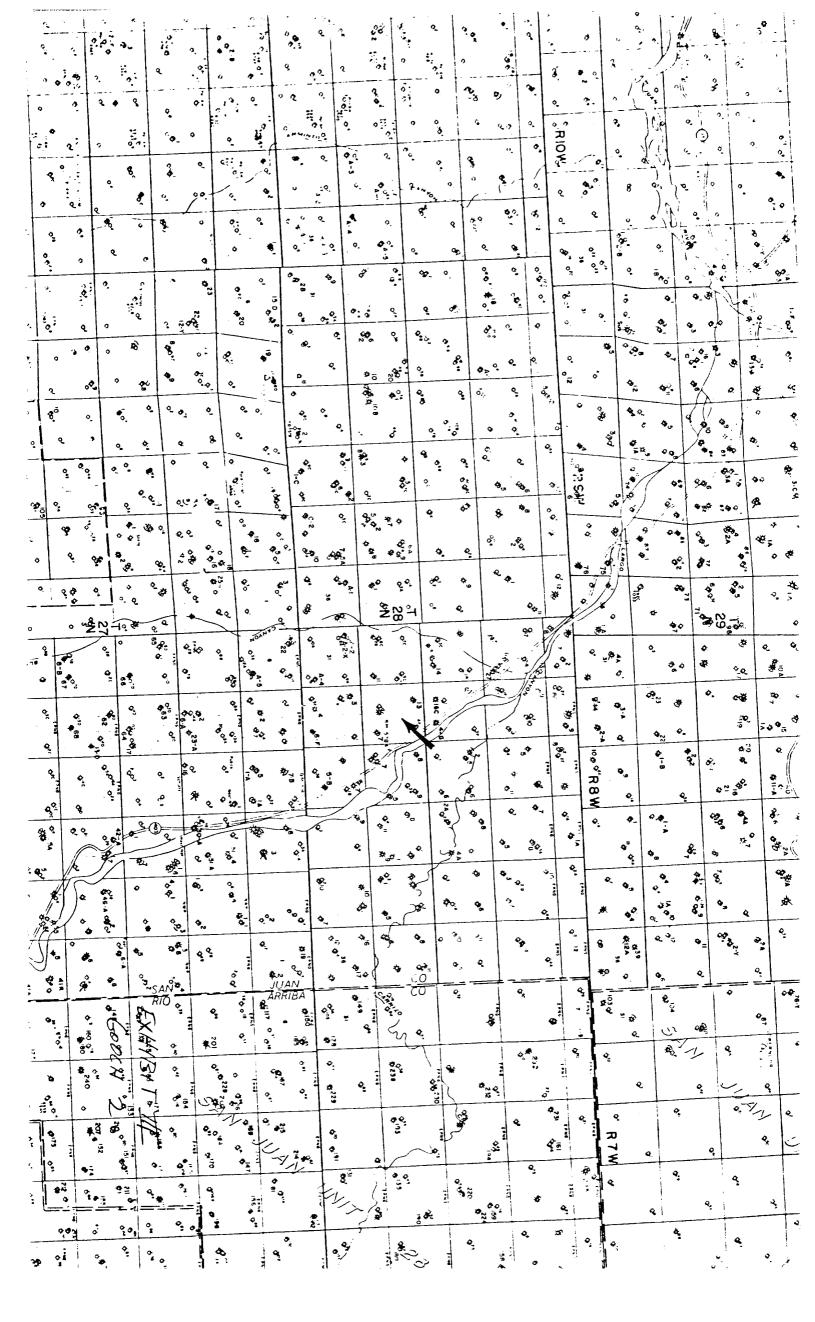
Choke manifold must be at ground level and extended out from under substructure.

TENNECO OIL COMPANY

REQUIRED MINIMUM BLOWOUT PREVENTOR .

HOOKUP

Denver, Colorado



## TENNECO OIL COMPANY

**CALCULATION SHEET** 

