SUBMIT IN TRIFLICATE.

(Other instructions on

Form approved, Budget Bureau No. 42-R1425.

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a. TYPE OF WORK DR	ILL X	DEEPEN []	PLUG	BACK 🗌	7. UNIT AGREEMENT NAM	E
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. NAME OF OPERATOR					Price	-
Tenneco Oil C	ompany				9. WELL NO.	
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	Surface Use Pl				1 1	New Mexi
5. DISTANCE FROM PROP LOCATION TO NEARES	USED*		NO. OF ACRES IN LEAS		OF ACRES ASSIGNED	
PROPERTY OR LEASE (Also to nearest dri	LINE, FT.			1 70 7	THIS WELL	
S. DISTANCE FROM PRO	POSED LOCATION®	19. 1	19. PROPOSED DEPTH		20. ROTARY OR CABLE TOOLS	
TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, PT.			7530	R	Rotary	
. ELEVATIONS (Show wh	nether DF, RT, GR, etc.)	0 0 1	·		22. APPROX. DATE WORK	
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ne. If proposal is to	drill or deepen direction				ed and true vertical depths.	
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SIGNED	I was principle	Z TITLE _1	PIVISION PLUC	uccion Ma	DATE	
(This space for Fed-	eral or State office use)					
PERMIT NO			APPROVAL DATE			
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nmocc *See Instructions On Reverse Side

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088 SANTA FE, NEW MEXICO 87501 Form C-102 Revised 10-1-78

		All distances must be f	rom the cuter bo	undertee of th	e Section.	
Operator		Lease		Well No.		
	O OIL COMPANY PRICE		2 -			
Unit Letter S	ection	Township	Romge	-	County	
0	13	28N	<u>8w</u>		San Juan	
Actual Footage Locati		43.	1 770		# I	
	feet from the SOU		i 1770 _{P∞1}	feet	from the East	line Dedicated Acreage:
Ground Level Elev. 6318	Producing For		1	Daleata	_	320 Acres
	Dakota			<u>Dakota</u>	 	
•	n one lease is	ted to the subject v				the plat below. thereof (both as to working
dated by cor	nmunitization, t	nitization, force-poonswer is "yes," type	ling. etc?	ion		of all owners been consoli-
this form if a	necessary.) will be assign	ed to the well until a	ill interests he	ave been c	onsolidated (by c	ommunitization, unitization, een approved by the Commis-
			принцип	шшш	ատուն	CERTIFICATION
1	l I		; }		E	CERTIFICATION
	1		1		fained	by certify that the information con- l herein is true and complete to the if my knowledge and belief.
·			- 		Position	a. Rush
	1				Compon	onmental Coordinato
	! 	Sec.	CONOC PENNECO: O		Augus	st 31, 1979
	 - 	13	SF-078	390	showr notes under is tro	eby certify that the well location on this plat was plotted from field of actual surveys made by me or my supervision, and that the same ue and correct to the best of my edge and belief.
	; ; ; ;		955	1770'	Registe and/of	Ly 17, 1979 red Professional Engineer que Minary de Reference
0 330 660 9	0 1320 1650 19	80 2310 2640 26	000 1500	1000 5	。。。 (38)	S S S S S S S S S S S S S S S S S S S

1. The geological name of the surface formation is Tertiary San Jose

2%3. Estimated Formation Tops:

Ojo	1800'	Mancos	5268'
Pictured Cliffs	2975'	Gallup	6366'
Cliffhouse	4602'	Greenhorn	7197'
Menefee	4708'	Dakota A	7311'
Point Lookout	5158'	Total Depth	7530'

- 4. Drill a 13 3/4" hole to 300[±]. Run 9 5/8", 36#, K-55 ST&C casing to 300[±] and circulate cement to surface using 2% CaCl₂ in cement. Drill out shoe and reduce hole to 8 3/4". Drill 8 3/4" hole to 3500[±]. Run 7", 23#, K-55 ST&C casing to 3500[±] and circulate cement to surface. Drill out of 7" with 6 1/4" bit using gas as circulating fluid. Drill to total depth. If productive, run 4 1/2" casing. Cement in one stage and bring cement to above Mesaverde Zone. If nonproductive, P&A as per U.S.G.S. requirements.
- Blowout Preventors:
 Hydraulic double ram, 10". One set of rams will be provided each 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". BOP's, drills, and tests will be recorded in the driller's log. BOP will be tested every 24 hours and recorded in IADC log.
- 6. Mud Program: (Sufficient quantity of mud and weight material will be available on location.)

0-300[±] Spud mud. 300-3500[±] Low solids fresh water mud. No WL control. 3500-T.D. Gas

7. Auxiliary Equipment:

- a. Kelly cock will be in use at all times.
- b. Stabbing valve to fit drill pipe will be present on floor at all times.
- c. Mud monitoring will be visual. No abnormal pressures are anticipated.
- d. Floats at bits.
- on the rig floor while drilling operations are in progress.
- 8. Coring, Logging, and Testing Program:

No cores will be taken. Samples will be taken as directed by wellsite geological engineer. GR/FDC/CNL caliper from T.D. to base of Mesaverde. GR/SP/SN induction from T.D. to surface casing.

- 9. No abnormal pressures or temperatures are anticipated.
- 10. The drilling of this well will take approximately 10 days.
- 11. Your office (telephone) will be notified of spudding in sufficient time to witness cementing operations. Immediate notice will be given on blowouts, fires, spills, and accidents involving life threatening injuries or loss of life. Prior approval will be obtained before appreciably changing drilling program or commencing plugging operations, plug back work, casing repair work or corrective cementing operations.

1. Existing Roads

- A. Proposed Well Site Location: The proposed wellsite location was surveyed and staked by a registered land surveyor and is located 955' FSL and 1770' FEL Sec. 13, T28N-R8W, San Juan County, New Mexico. (See Exhibit I acreage dedication plan).
- B. Planned Access Route: Planned access route begins in Blanco, New Mexico on Highway 64 east for approximately 8 1/2 miles. Turn south on blacktop road for 1 mile, turn southeast on dirt road and travel for approximately 3 miles, turn south at fourth junction and proceed for 3 miles. Follow 500' of newly constructed road to C. Access Road Labelled: wellsite location.

. Necess hour Euperred.

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.)

Color Code:

- A. Width:
 The average width of the road is twenty feet.
- B. Maximum Grades:
 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 required.
- F. Surfacing Material:
 Native soil has been wetted, bladed and compacted to make the road surface, which is existing.

2. Planned Access Roads (Cont'd)

- Gates, Cattlequards, Fence Cuts: G. No gates, cattleguards or fences will be needed.
- Η. New Roads Centerlined Flagged: Existing Roads.
- 3. Location of Existing Wells

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

- Water Wells: Α. None
- В. Abandoned Wells: None ...
- Temporarily Abandoned Wells: None С.
- Disposal Wells: None D.
- Ε.
- Drilling Wells: See Exhibit III
 Producing Wells: See Exhibit III F.
- Shut-In Wells: None. G.
- Н. Injection Wells: None.
- I. Monitoring or Observation Wells: None.
- Location of Existing and/or Proposed Facilities 4.
 - Existing facilities within one mile owned or controlled Α. by Lessee/Operator:
 - Tank batteries None
 - Production facilities See Exhibit III
 - (2) (3) (4) Oil Gathering Lines - None
 - Gas Gathering Lines None
 - Injection Lines -None
 - Disposal Lines -None

- New facilities in the event of production: В.
 - (1) Facilities will be within dimensions of the drill pad.
 - (2) Dimensions are shown on Exhibit IV.
 - 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 to protect wildlife and livestock.

- 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. See Exhibit IV
- B. Location of pits, etc. See Exhibit IV
- C. Rig orientation etc. See Exhibit Iy
- 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 description of the proposed wellsite location is located approximately 1 1/2 miles west of Carrizo Creek and 2 miles south of Jesus Canyon, Terrain consists of sandy soil, sagebrush and juniper trees.
- 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.

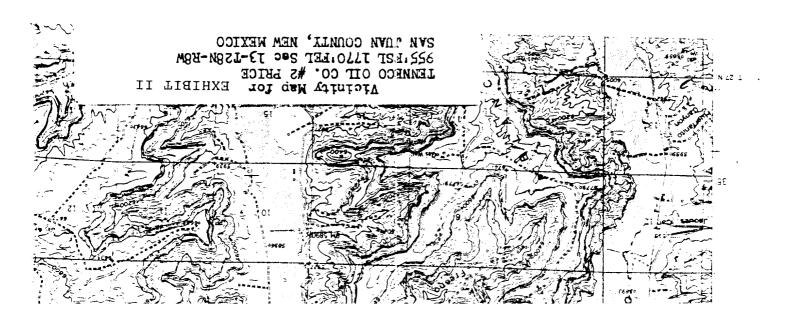
12. Operator's Field Representative

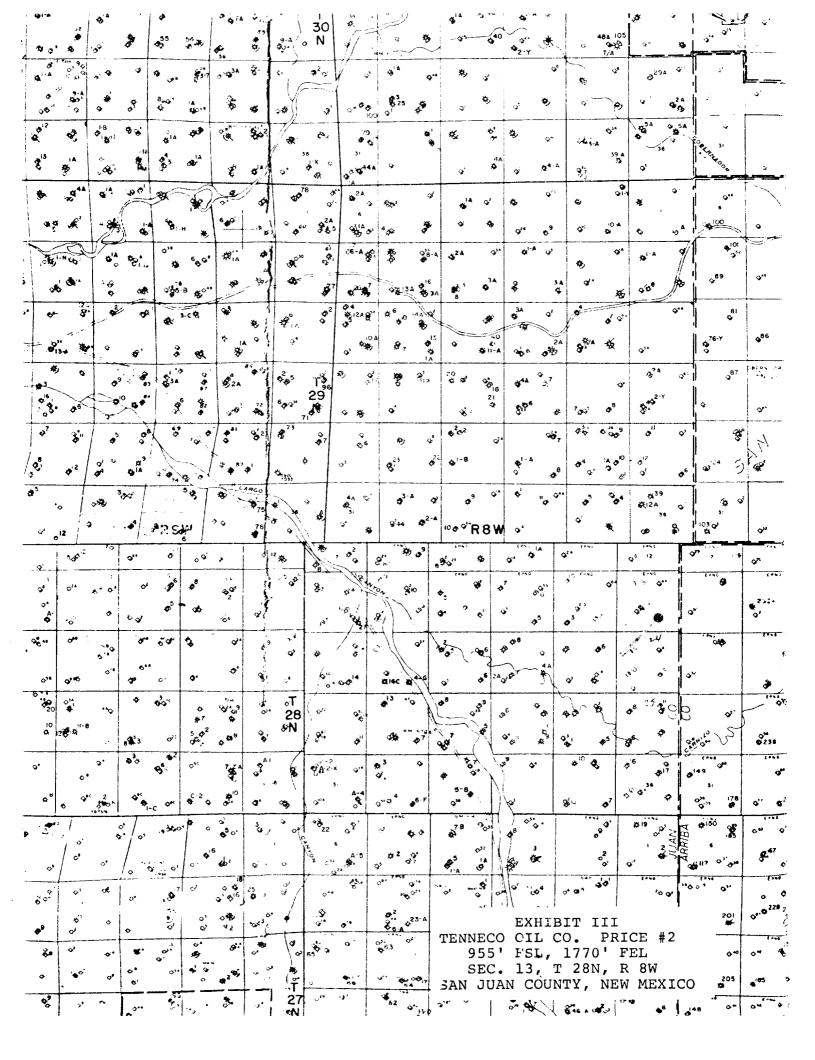
Donald S. Barnes
Division Drilling Engineer
Tenneco Oil Company
720 South Colorado Blvd.
Penthouse
Denver, CO 80222
(303) 758-7130 Ext. 212

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: 2-27	Am Prear
	J. M. Lacey Division Production Manager





TENNECO OIL COMPANY

CALCULATION SHEET

