SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES

16-145=24824	
5. LEASE DESIGNATION AND SERIAL NO.	

	5. LEASE DESIGNATION AND SERIAL NO.				
		GICAL SURVEY			SF-077833
	N FOR PERMIT	<u>ro drill, dee</u>	PEN, OR PLUG E	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	ILL 🛚	DEEPEN	PLUG BA	CK 🗆	7. UNIT AGREEMENT NAME
OIL -	VELL OTHER		SINGLE X MULTIP	re 🗍	8. FARM OR LEASE NAME
2. HAMR OF OPERATOR					Mansfield Com
Tenneco (oil Company		**		9. WELL NO.
S. ADDRESS OF OPERATOR					#4
P.O. Box	3249, Englewood	, Colorado 80	155		10. FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL (E	teport location clearly and	in accordance with an	State requirements.*)	 	Basin Dakota
	FSL, 1405 FEL		*	1	11. BEC., T., R., M., OR BLE.
د. At proposed prod. 20:	ne	; J	All	1	AND SURVEY OR AREA
same					Sec. 30, T30N, R9W
14. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POST OFF	ACR.		12. COUNTY OR PARISH 13. STATE
	tely 4 miles No	rth of Blanco,	N.M.		San Juan N.M.
15. DISTANCE FROM PROP LOCATION TO NEARES	Ť	18-	NO. OF ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL
PROPERTY OR LEASE (Also to nearest dr)		1035'	527.84		F/320 /
18. DISTANCE FROM PROP TO NEAREST WELL, I	POSED LOCATION* DRILLING, COMPLETED.	19.	PROPOSED DEPTH	20. BOTA	BY OR CABLE TOOLS
OR APPLIED FOR, ON TE			±7240	R	otary
21. ELEVATIONS (Show wh					22. APPROX. DATE WORK WILL START*
		5971' GR			January 1981
23.	I	PROPOSED CASING A	ND CEMENTING PROGRA	AM	
SIZE OF HOLE	BIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT
12 1/4"	9 5/8" new	36#	±250	Circ	ulate to surface
8 3/4"	7" new	23#	±3140	Circ	ulate to surface
6 1/2"	4 1/2" new	11.6#, 10.5#	±7240	Circ	ulate to liner top
			ქ	1	1. 2 Stinistratival

See attached.

The gas is dedicated.



. Descriptionistrative ... UFr. 290.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive sone and proposed new productive sone. 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.

34.	BRONED A. Mishler R. A. Mishler	TITLE .	Sr. Production	Analyst	DATE	December 31,	1980
_	(This space for Pederal or State office use)						
	APPROVED						
	PERMIT NO. AS AMENDED		APPROVAL DATE				
4	AS BWENDED						
ુપ	1			1.			
'0'	APPROVED BY	TITLE .			DATE.		
() (CONDITIONS OF APPROVAL TO ART. 19 1 100						
Ù), Junior May						
_	FS F JULIES F. SIMS						
11	DISTRICT ENGINEER						

See Instructions On Reverse Side

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO EHERGY AND MINERALS DEPARTMENT

P. O. BOX 2088

form C-107 kevised 10-1-73

SANTA FE, NEW MEXICO 87501
All distances must be from the cuter boundaries of the Section.

		All distances must be fr	om the cuter heunder						
Operator			Lease		Well No.				
TENNECO OIL COMPANY MANSFIELD COM			1						
Unit Letter	Section	Township	Range	County					
J	30 -	30N	9W	San Ju	an l				
Actual Footage Loca				1 50.1 00.	***				
1520 #	•	uth line and	1405						
Ground Level Elev:	feet from the SO Producing For		<u> </u>	feet from the Ea.	Dedicated Acreage:				
	1		Pool	Dava					
5971	DAKO	<i>[[]] </i>	BASIN	DAKOTA	320 Acres				
2. If more th interest an	 Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 								
dated by c	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? Yes No If answer is "yes," type of consolidation COMMUNITIZATION PENDING If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of								
	necessary.)		t ====================================						
No allowab	ole will be assign				(by communitization, unitization, has been approved by the Commis-				
			— . — . — . —		CERTIFICATION				
			i		CERTIFICATION				
		I	ار	= 1					
	1	SF 0	769341		I hereby certify that the information con-				
			1		tained herein is true and complete to the				
		-	1		best of my knowledge and belief.				
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	ľ	3	1	• • • • • • • • • • • • • • • • • • •	M. a. Mishler				
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			-		R. A. Mishler				
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	1	1	1	i	Sr. Production Analyst				
	1			■ C	Company				
	•		ŀ	Ĭ L	Tenneco Oil Company				
		<u> </u>	i	_ D	ate				
	56	c.	i		December 31, 1980				
	ŀ	=	ı I						
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			!		A B B are at a structure				
		30	l .		I hereby certify that the well location				
	-1 $\langle A \rangle$	\	į į	MANIET	shown on this plat was plotted from field				
		SF07	1837 ¹	\	notes of actual surveys made by me er				
	John Street		_ ارد ۱	Ą ĐILL A PĒ	under my supervision, and that the same				
,	٠ کم کم ر				is true and correct to the best of my				
	公 州			05	knowledge and belief.				
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	1 3		_ [!	1 P	cate Survived RED LAND				
,	Ç Norre	<u> </u>	٥H	<u> </u>	December 20, 3200				
	NI /		220	R	egistered Project Dood Engineer				
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TENNECO OIL COMPANY ROCKY MOUNTAIN DIVISION PENTHOUSE, 720 SOUTH CCLORADO BOULEVARD DENVER, COLORADO 80222

DRILLING PROCEDUTE

DATE: September 4, 1980

LEASE: Mansfield Com

:

WELL NO.:

4

LOCATION: 1520 FSL, 1405 FEL

Sec 30, T30N, R9W

FIELD: Basin Takota

ELEVATION: 5971, Est G.L.

TOTAL DEPTH: 7240

PROJECTED HORIZON: Dakota

SUBMITTED BY: Billy Harris DATE: September 4, 1980

APPROVED BY: Same

DATE: 9/8/80

CC: Administration DSB Well File Field File

ESTIMATED FORMATION TOPS

	Ojo	1475'	Water
	Fruitland	2465'	Gas
<i>:</i>	Pictured Cliffs	2587'	Gas
	Lewis	2660'	Shale
	Cliff House	4190'	Gas
	Menefee	4355'	Gas
	Point Lookout	4813 '	Gas
	Mancos	4945'	Shale
	Gallup	6123!	Gas
	Greenhorn	6864'	
	Dakota	6960 '	Gas
	T.D.	7240'	

DRILLING, CASING FIG CEMPTITING PROGRAM.

- 1. MIRURT
- 2. Drill a 12%" Hole to \pm 250 with Gel-Water Mud.
- 3. RU and run 9 5/8" 36# K-55 ST&C casing to TD. Cament with Class B \pm 20 CaCl $_2$ in sufficient quantity to circulate cement to surface. WDC 12 hours.
- 4. Screw on 9 5/8 8rd x 11-3000 casing head, NU BOPS. Pressure test casing. lines and blinds to 1000 PSI for 30 minutes. GIH with drill pipe and test pipe rams to 1000 PSI for 30 minutes. Record all tests on IADO Report.
- 5. Drill out using an 8 3/4" Bit and clear water. Drill to 3140'. Mud up prior to reaching intd. TD.
- 6. RU and run 7" 23# K-55 ST&C casing to bottom. Cement with 50:50 Pozmix, 4% Gel; tailed with 150 sx Class B + 2% CaCl₂. Circulate cement to surface. WOC 18 hours.
- 7. Set slips and cut-off casing. GIH with 6½" Bit and 3½" drilling assembly. Pressure test to 1000 PSI for 30 minutes. Record tests on IADC Report.
- 2. RU to Gas Drill. Drill to within 5' of shoe with water, unload hole with $\rm M_2$. Drill a few feet of new formation and blow with gas until dusting.
- 9. Drill a 64 hole to TD with gas. Log open hole as directed by G.E. Department.
- 10. And 4%" 11.6 and 10.50# K-55 ST&C as designed as a liner. Have 150' overlap inside the 7" casing. Cerent with 50:50 Pozmix, 4% Gel; tailed by 100 ax of Class B. Use a fluid loss additive in the lead slurry and circ cement to liner top.
- 11. Circulate out excess cement, LODP and MORT.
- 12. Install tree and fence reserve pit.
- 13. If non-productive, P & A as required by the USGS.

Casing Program

<u>Interval</u>	Length	Size	Weight	Grade	Coupling
0-250	250	9 5/8	36∄	K-55	STC
0-3140	3140	7	23#	K-55	STC
6940-7240	300	4 1/2	11.6 /	K-55	STC
2940-6940	4000	4 1/2	10.5=	K-55	STC

<u>1100 PAGAPAN</u>

0-250 Spud mud.

250-3200 Low solid, fresh water ruli. (Water and Benex.) Mud up prior to running casing.

3200-TD Gas.

EVALUATION

Cores and DST's: None.

Deviation Surveys:

- 1. Survey surface hole at 100' intervals. Maximum allowable deviation at 500' is $1-1/2^{\circ}$.
- 3. From surface to total depth, deviation surveys must be taken every 500' or each trip, whethever is first. This may entail running the TOTCO on winder line. Record each survey on the IAEO Drilling Report Sheet. Maximum allowable change in deviation is 1° per 100'. Maximum deviation allowable is 5°.

<u>Samples:</u> As requested by Wellsite Beological Engineer.

Logs: 1. GR/IND FDC-GR-Cal TO to M/

ELOWINT EQUIPMENT

11" - 3000 BOP with rotating head to comply with TOC requirements as shown in BOE arrangement, Figure C. Preventers must be checked for operation every 24 hours with each check recorded on the IADC Drilling Report Sheet.

REPURTS

Drilling reports for the past 24 hours will include depth, footage, time distribution, activity breakcown, and properties, bit record, bottom hole assembly, daily and cumulative and 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.) 303-936-0704 (Home) Don Barnes, weekends and holidays.
- 2. John Owen (Home) 303-795-0221

The yellow sheet of the IADC Report is 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 DIL 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.
- 2. Mr. John W. Owen, Project Drilling Engineer.
- 3. Mr. Mike Lacey, Division Production Manager (Home 303-979-0509).

TENNECO OIL COMPANY - 10 POINT PLAN

The geological name of the surface formation: Maclements Estimated Formation Tops: 1.

2 & 3.

(See Attached Drilling Procedure)

4. Proposed Casing Program:

(See Attached Drilling Procedure)

5. Blowout Preventors:

> Hydraulic double ram. 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).

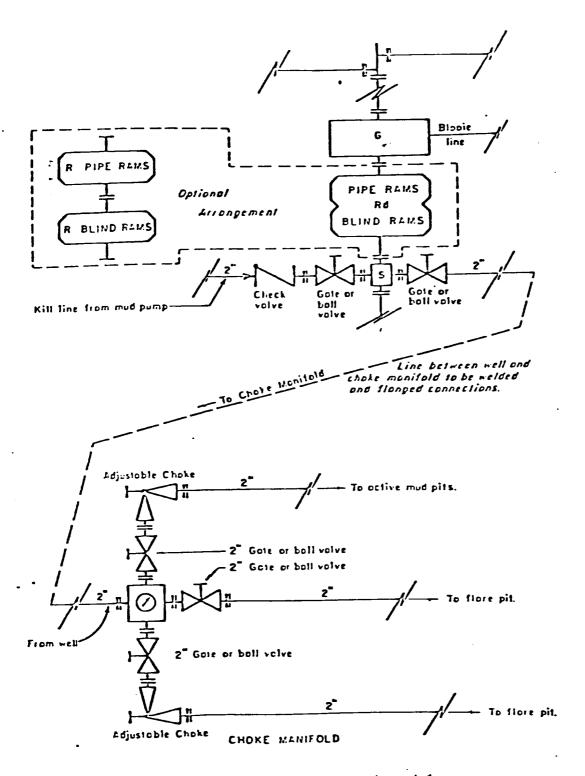
(See Attached Drilling Procedure.

- 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.
 - e. Drill string safety valve(s) to fit all pipe in drill string will be maintained on the rig floor while drilling operations are in progress.
- 8. Coring, Logging, and Testing Program:

(See Attached Drilling Procedure)

- No abnormal pressures, temperatures or potential hazards such as H₂S are ex-9. pected to be encountered.
- The drilling of this well will start approximately (annual)) and continue for 10 to 12 days. 10.

Your office 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.



All equipment to be 3,000 psi working pressure except as noted.

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

ARRANGEMENT C

TENNECO OIL COMPANY
ROCKY MOUNTAIN DIVISION
REQUIRED MINIMUM
BLOWOUT PREVENTER AN
CHOKE MANIFOLD
J. MAGILL 10-26-70 EVI

- 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.
- 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.

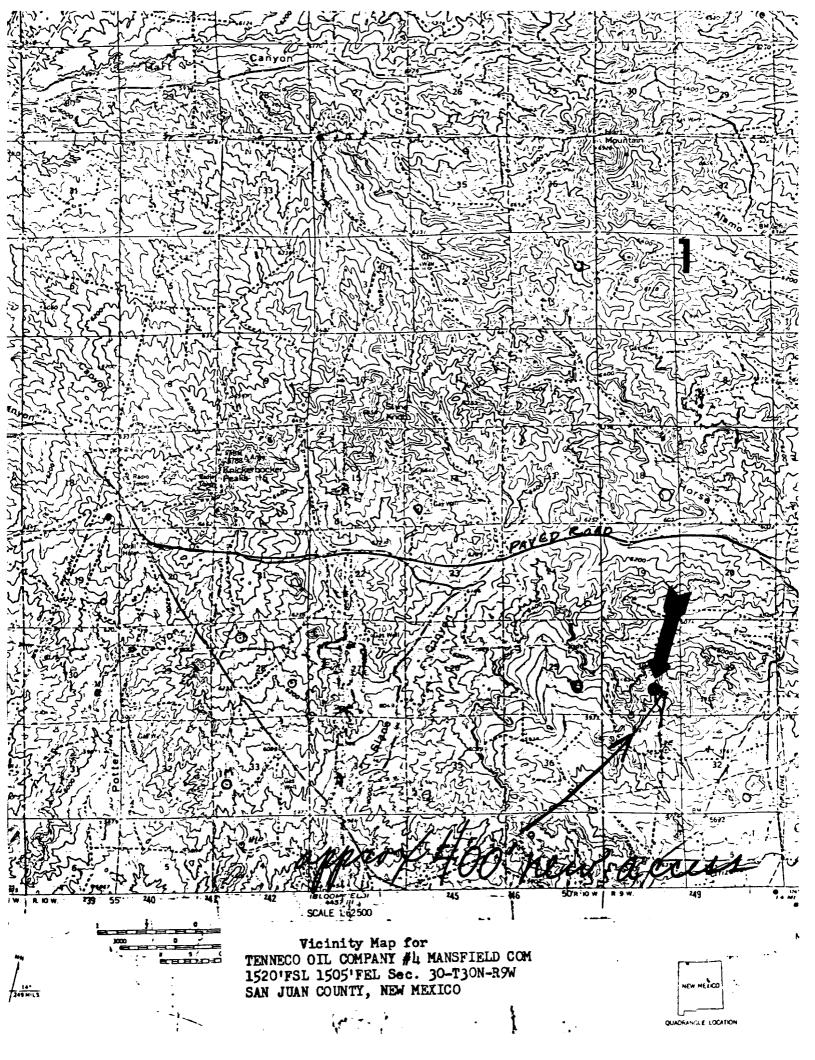
- 8. Ancillary Facilities No camps or airstrips will be associated with this project.
- 9. Wellsite Layout Please refer to the attached Plat No. 1.
- 10. Plans for Restoration of the Surface After completion of the proposed project the location will be cleaned and leveled. The location will be left in 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 Location is on canyon bottomland. Soil is sandy clay.

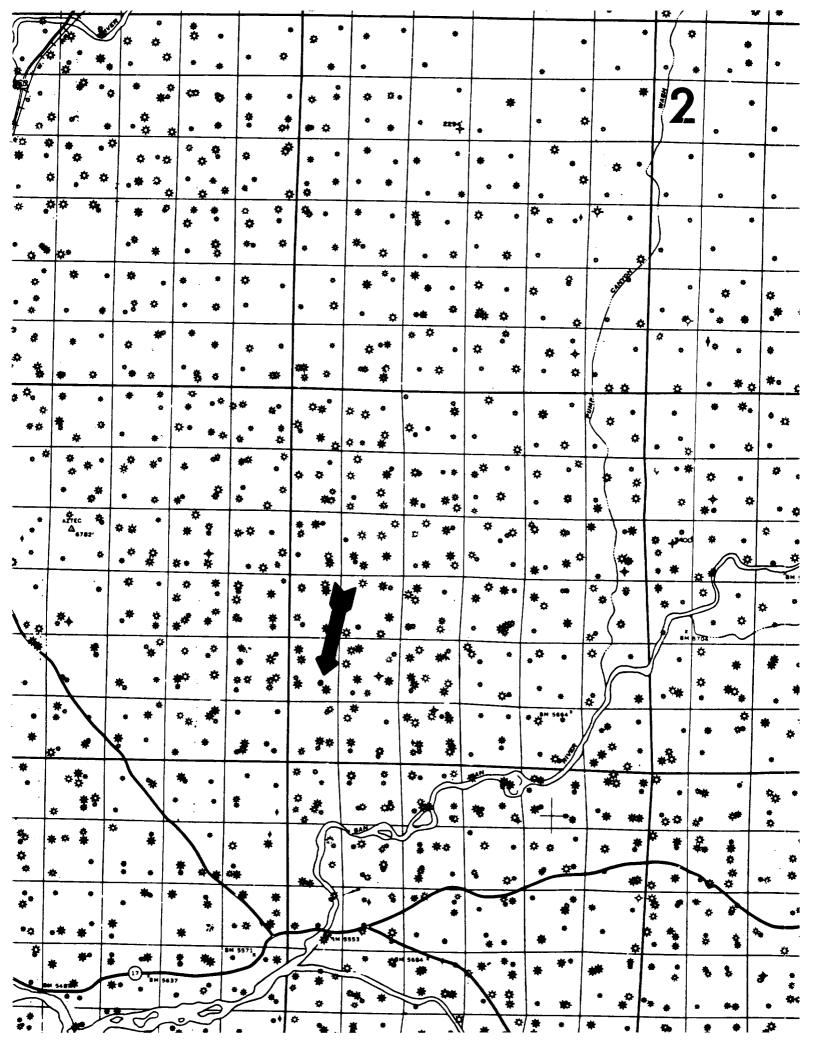
 Drainage is southerly. Vegetation includes pinon & juniper, sage, ephedra, mock orange, rabbitbrush, snakeweed, and native grasses.
- Operator's Representative See drilling prognosis.
- 13. Certification -

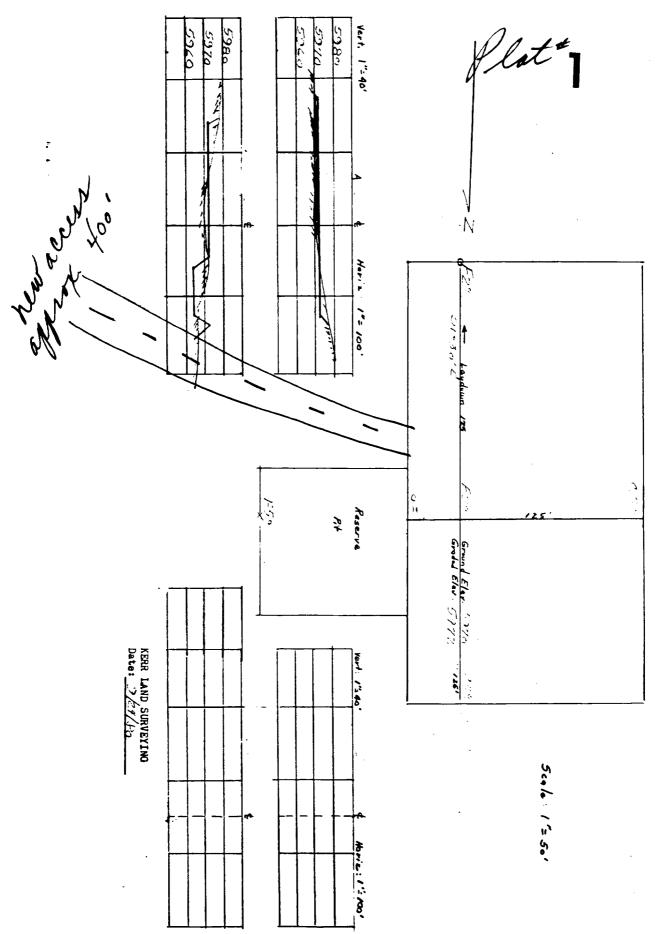
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements mad in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Tenneco Oil Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

R. A. Mishler

Sr. Production Analyst







PROFILE FOR
TENNECO OIL COMPANY #4 MANSFIELD COM
1520'FSL 1405'FEL Sec. 30-T30N-R9W
SAN JUAN COUNTY, NEW MEXICO