SUBMIT IN TRIPLICATE.

(Other instructions on

Form approved. Budget Bureau No. 42-R1425.

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	DEPA		T OF THE			s Blue)	30-04:- 339	
	DEIA				TION		5. LEASE DESIGNATION AND SERIAL NO SF-077111	
			OGICAL SURV				NN-04206 ~	
	4 FOR I	PERMIT	TO DRILL,	DEEP	EN, OR PLUG	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAM	
1a. TYPE OF WORK	ILL 🔯		DEEPEN		PLUG BA	ACK 🗍	7. UNIT AGREEMENT NAME	
b. TYPE OF WELL								
OIL O	ELL XX	OTHER			ONE ZONE	TIPLE	S. FAEM OR LEASE NAME	
2. NAME OF OPERATOR							Storey Com 'C'	
Tenneco Oil C	ompany						9. WELL NO.	
3. ADDRESS OF OPERATOR							4:	
720 S. Colora	do Blvd.	., Denve	r, CO 80	222			10. FIELD AND POOL, OR WILDCAT	
4. LOCATION OF WELL (R	eport locatio	n clearly and	in accordance wi	ith any S	tate requirements.*)		Basin Dakota	
890 FSL 890	FEL						11. SEC., T., R., M., OR BLK.	
At proposed prod. zon	e						AND SURVEY OR AREA	
							Sec. 15, T 28N, R 9W	
14. DISTANCE IN MILES			REST TOWN OR POS	ST OFFICE	E *	· · · · · · · · · · · · · · · · · · ·	12. COUNTY OR PARISH 13. STATE	
5.6 miles SE		co, NM					San Juan NM	
10. DISTANCE FROM PROPU LOCATION TO NEAREST	SED*			16. NO	OF ACRES IN LEASE		OF ACRES ASSIGNED HAS WELL	
PROPERTY OR LEASE L (Also to nearest drig	INE, FT. . unit line, i	f any)] 3	L,895.13	5	-320	
18. DISTANCE FROM PROPOSED LOCATION				3	OPOSED DEPTH	20. ROTA	RY OR CABLE TOOLS	
TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.				1 6	5,923	Rotary		
21. ELEVATIONS (Show whe	ther DF, RT	, GR, etc.)		<u> </u>			22. APPROX. DATE WORK WILL START	
						1 .	ASAP	
23.		I	PROPOSED CASI	NG ANI	CEMENTING PROG	RAM ···		
SIZE OF HOLE	SIZE OF	CASING	WEIGHT PER FO		SETTING DEPTH		QUANTITY OF CEMENT	
13 3/4"	9 5/	'8" new	36# K-55		300'	Circu	late to Surface	
8 3/4"	7"	new	23# K-55		3,000'		late to Surface	
64"	412"	new	10.5#-11.6	5#			late through liner hange	
]				. 1	,	1 3.234	indies chirologic range	
						•		
SEE ATTACHED								
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							The state of the s	
			5 .				The NOKA SECTION	
*			ar.				10/2 37/0/2	

gas not destroted

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: 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. 24

SIGNED J. D. Traywick R, H MAYE	Who Admi	nistration	Supervisor	DATE_	October 23,	1979
(This space for Federal or State office use)						
PERMIT NO.	APP	ROVAL DATE				
APPROVED BYCONDITIONS OF APPROVAL, IF ANY:	TITLE			DATE _		
1 1				•	•	

of Such 1000 for See Instructions On Reverse Side

STATE OF NEW MEXICO

OIL CONSERVATION DIVISION

knowledge and belief.

September 215 Registered Professio

Date Surveyed

Fred A Certificate No 3950

RED LAND SUR

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P. O. BOX 2088 EXHIBIT I Form 2-102 Kevised 10-1-78 ENERGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501 All distances must be from the outer boundaries of the Section. Operator Lease Well No. TENNECO OIL COMPANY STOREY COM "C" 4 Unit Leiter Section Township County Р 15 28N 9W San Juan Actual Footage Location of Well: 890 890 == South East feet from the line and feet from the line Ground Level Elev. Producing Formation Pool 611.2Basin Dakota 320 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? If answer is "yes," type of consolidation Communitization in progress. Yes 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-ភិព្យាលទាយលាក់ពេលពេលពេលនៅ CERTIFICATION I hereby certify that the information contoined herein is true and complete to the best of my knowledge and belief. Laguer Traywick Administration Supervisor Position Tenneco Oil Company Company October 23, 1979 CONOCO Date Sec. TENNECO OIL CO. 15 I hereby certify that the well-location SF-077111 shown on this plat was plotted from field NM - 04208notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my

1980 2310

2000

1500

1000

1920 1680

TERMECO OIL COMPART

PROGNOSIS TO DRILL AND COMPLETE

DIVISION: Rocky Mountain DATE: August 14, 1979

LEASE: Storey Com 'C' WELL NO.: 4

LOCATION: 890' FSL, 890' FEL FIELD: Basin Dakota

Sec. 15, T 28N, R 9W San Juan County, NM

ESTIMATED ELEVATION: 6,050' G. I.

ESTIMATED TOTAL DEPTH: 6,923'

PROJECTED HORIZON: Dakota

DRILLING, CASING AND CEMENT PROGRAM:

1) MIRURT.

- 2) Drill a 13 3/4" hole to 300 \pm . 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 3000 -. Run 7", 23#, 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 3½" drill pipe. Pressure test pipe rams to 1000 psi for 15 minutes.
- 6) Drill out of 7" with $6\frac{1}{4}$ " 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 gauge the natural flow from the Dakota.
- 8) If productive, run $4\frac{1}{2}$ ", 10.5#-11.6#, casing to T.D. as per casing design. Cement in one stage. Bring cement through liner hanger.
- 9) If nonproductive, plug and abandon as per U.S.G.S. requirements.

ESTIMATED FORMATION TOPS: Surface - San Jose

OJO Alamo	1239'	(water	Mancos	4728
Pictured Cliffs	2343	(gas)	Gallup	5797 "
Cliffhouse	3991	(gas)	Greenhorn	6562 '
Menefee	4027	(gas)	Dakota 'A'	6683 ' (gas)
Point Look Out			T.D.	5923 '

DRILLING MUD PROGRAM:

0-300'

Spud Mud

300'-T.D.

7" casing-low solids fresh water mud. No W.L. control.

3000'+-T.D.

Gas

CORING AND TESTING PROGRAM:

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

CEVIATION SURVEYS:

- 1. Survey surface hole at 100' intervals. Maximum allowable deviation at
- 2. 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.

BOP: From 300' to T.D. as per U.S.G.S. requirements.

PREVENTORS MUST BE CHECKED FOR OPERATION EVERY 24 HOURS, AND THE CHECK MUST BE RE-

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STOREY COM C-4

1. Existing Roads

- A. Proposed Well Site Location: As surveyed is located 890' FSL 890' FEL, Sec. 15, T 28N, R 9W, San Juan County, NM (See Exhibit 7, Form C-102.)
- B. Planned Access Route: The planned access begins at the intersection of Canyon Largo and NM Hwy. 64. Proceed down the North side of the wash for 5 miles to the 5 mile crossing. Cross the wash & go .7 mile turn SW for a distance of 2 miles turn South & go up Mesa for 1 mile to flagged access.
- 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.) No new road required.

- A. Width:
 The average width of the road is twenty feet.
- B. Maximum Grades: Less than 8%.
- 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 fill required.

F. Surfacing Material:
Native soil has been wetted, bladed and compacted to make the road surface, which is existing.

1

2. Planned Access Roads (Cont'd)

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

Location of Existing Wells

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

Α.	Water Wells:	None
В.	Abandoned Wells:	None
C.	Temporarily Abandoned Wells:	None
D.	Disposal Wells:	None
E.	Drilling Wells:	None
F.	Producing Wells: See Exhibit	III
G.	Shut-In Wells:	None
Η.	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 -	None
(2) (3)	Production facilities -	See Exhibit III
(3)	Oil Gathering Lines -	None
(4)	Gas Gathering Lines -	None
(5) (6)	Injection Lines -	None
(6)	Disposal Lines -	None

- B. New facilities in the event of production:
 - (1) New facilities will be within the dimensions of the(2) drill pad (See 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: Facilities will be fenced as needed to protect wildlife/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 well head 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.

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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 proposed site is located on a NW bench of Harris Mesa approximately 2 miles SW of Canyon Largo. The principle vegetation consists of Pinon, juniper, saltbrush, snakeweed, Mormon Tea, and Mountain Mahogany. The soil is sandy, fractured sandstone.
- 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.
 - 3. 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.

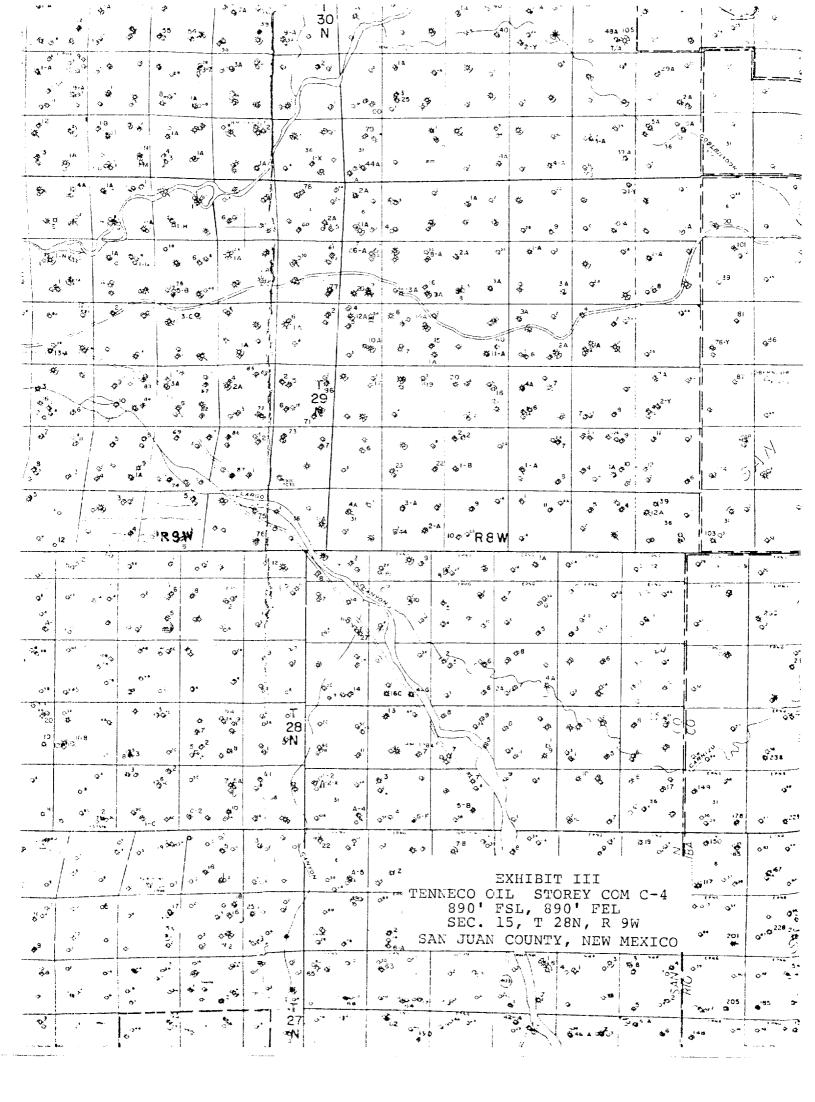
Date: October 23, 1979

Administration Supervisor

DEPARTMENT OF THE INTERIOR

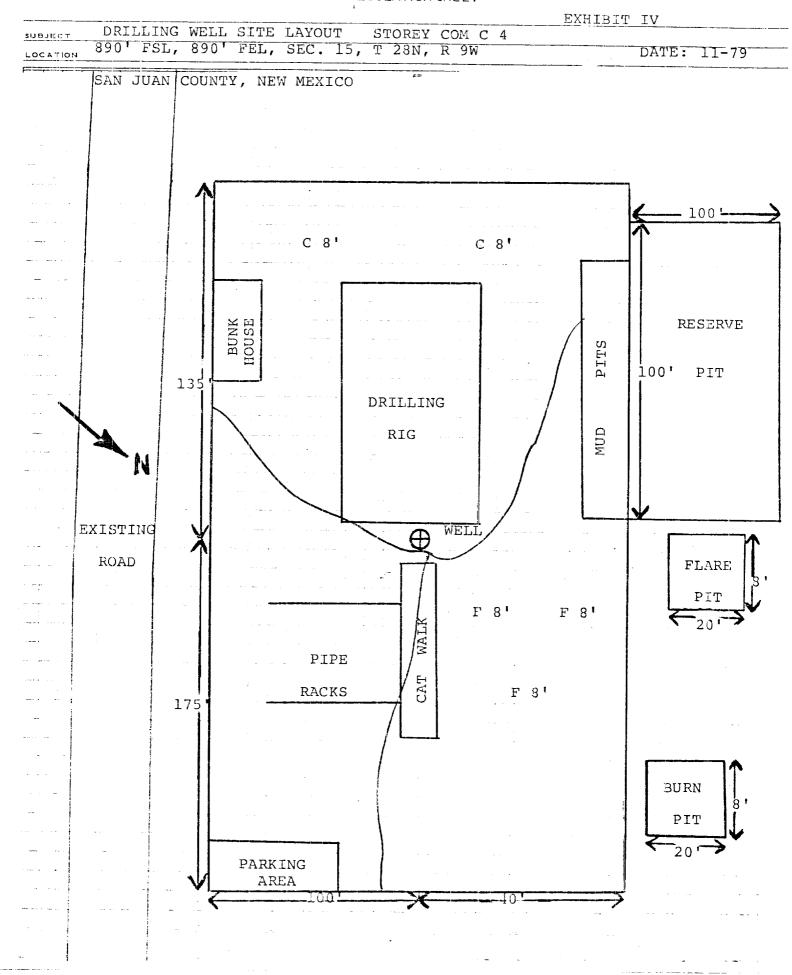
GEOLOGICAL SURVEY CANON Vicinity Map for EXHIBITENNECO OIL COMPANY #4 STOREY COM "C" 890'FSL 890'FEL Sec 15-T28N-R9W EXHIBIT II SAN JUAN COUNTY, NEW MEXICO

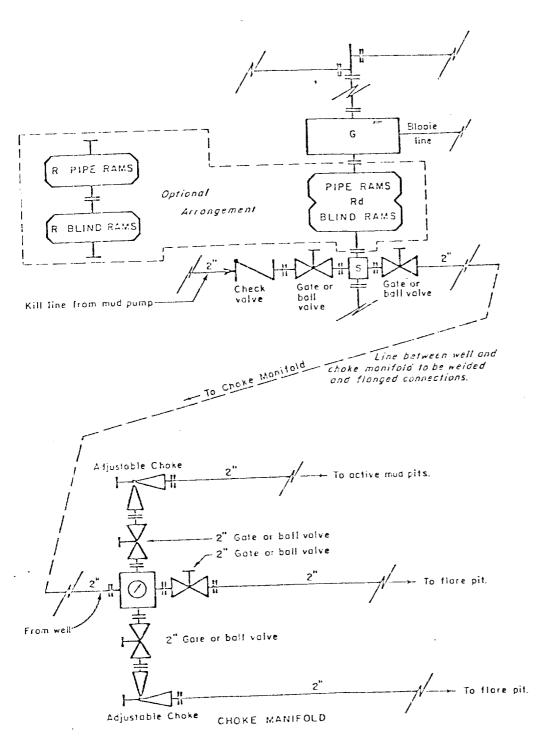
UNITED STATES



TENNECO DIL COMPANY

CALCULATION SHEET





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

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

ARRANGEMENT C

TENNECO OIL COMPANY ROCKY MOUNTAIN DIVISION REQUIRED MINIMUM
BLOWOUT PREVENTER AN
CHOKE MANIFOLD 10-26-79 J, MAGILL