

TIMBER//SHARP DRILLING

B.O.P. Equipment Intended for use on Rig # 24
Well To Be drilled for TM32/Sharp

- * All B.O.P. equipment is H2S Trim *
- * All Accumulators are Koomey Type-80 : Dual Power Electric/Air *
- * Choke Manifold: * See sheet 2
- 4" Valves : Cameron F/FC, Shaffer DB Hydraulic
- 2" Check Valve: Cameron Type R
- 2" Valves : Cameron or Shaffer

Annular Shaffer Type: Spherical
Annular PSI: 3000

(If Shaffer: Spherical , If Hydril: Type GK)

BOP Type Shaffer LWS

(If Shaffer: LWS or SL, If Cameron: Type U)

BOP Size: 13 5/8 " - 5000 PSI

Rotating Head Type Smith

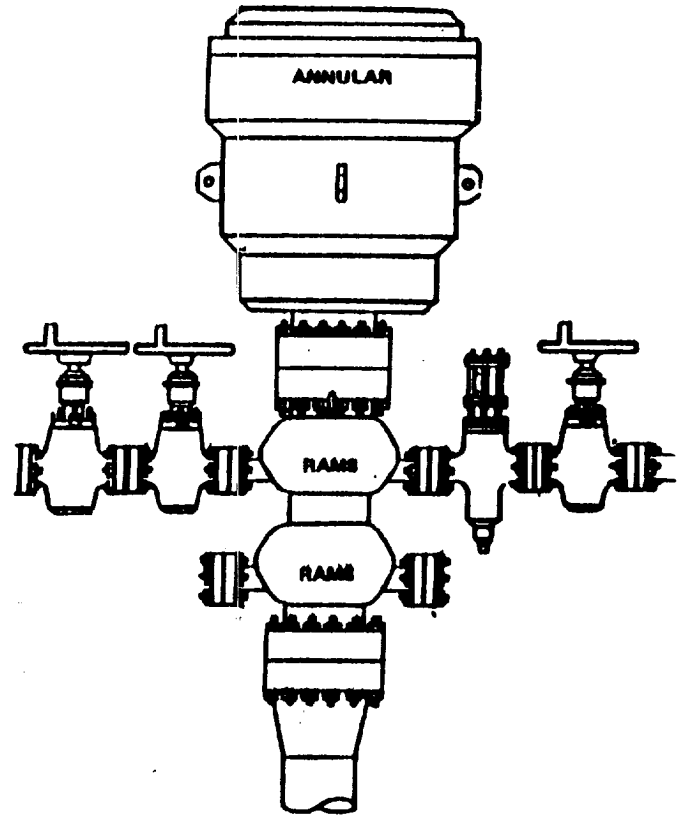
Rot-Head Furnished By TMSE

Rams in top gate: 4 1/2 pipe

Rams in bottom: Blinds

Side Outlets used:
Bottom X Top

4" Valves on Tee



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* All Valves (H2S) *

Choke Manifold:

Pressure Rating 3,000 or 5,000 (as Req.)

1 - 4" Valves

2 - 2" Valves

2 - 2" Adjustable Chokes

Valve Types Used:

Cameron - F or FC

Shaffer - B Floseal

WKM type 2

Chokes - Cameron H2 or TC unbolt

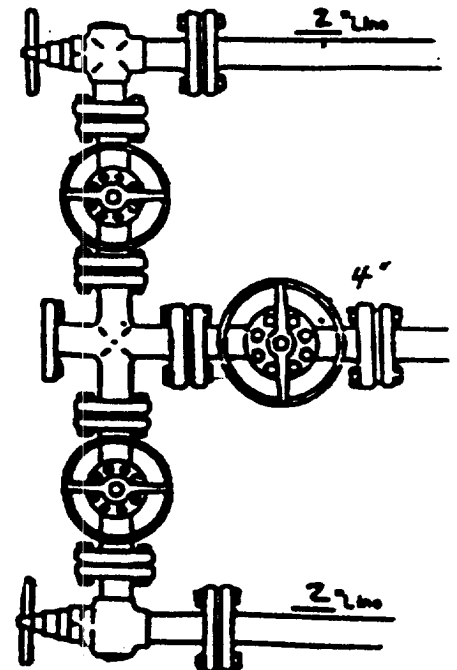


EXHIBIT "E"

TMBR/Sharp Drilling, Inc.

TMBR/Sharp "21" Federal Com., Well No. 1

BOP Specifications

ELF 8/7/01
ABOVE DATE DOES NOT
INDICATE WHEN
CONFIDENTIAL LOGS
WILL BE RELEASED

