

TIMBER // SHARP DRILLING

B.O.P. Equipment Intended for use on Rig # 24 4/22
Well To Be drilled for IM32/Sharp

'All B.O.P. equipment is H2S Trim'

'All Accumulators are Kormey 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 Shafter: Spherical , If Hydril: Type GK)

BOP Type Shaffer LWS

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

BOP Size: 13⁵/₈ " - 5000 PSI

Rotating Head Type Smith

Rot-Head Furnished By IMBE

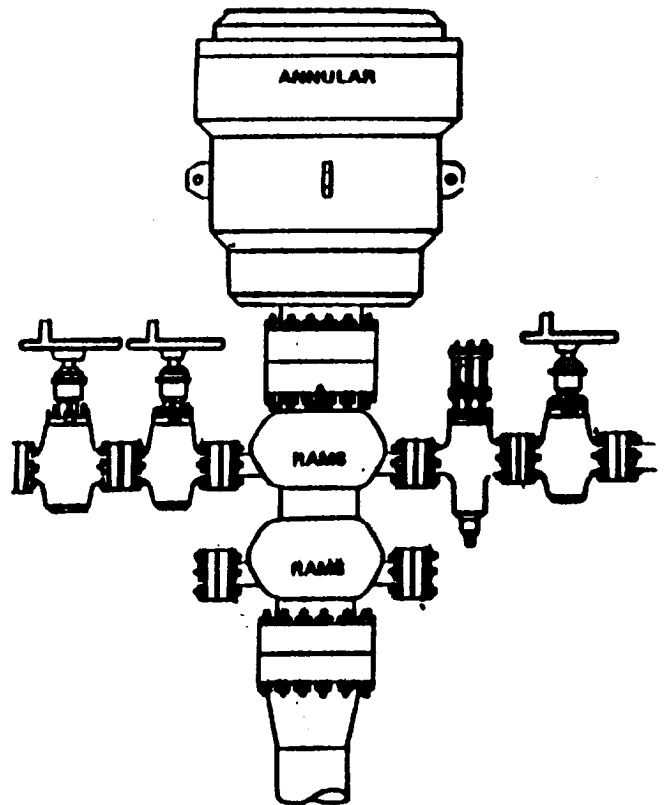
Rams in top gate: 4 1/2 pipe

Rams in bottom: Blinds

Side Outlets used:

Bottom X Top

4" Valves on Tee



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*** All Valves (H28) ***

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 unibolt

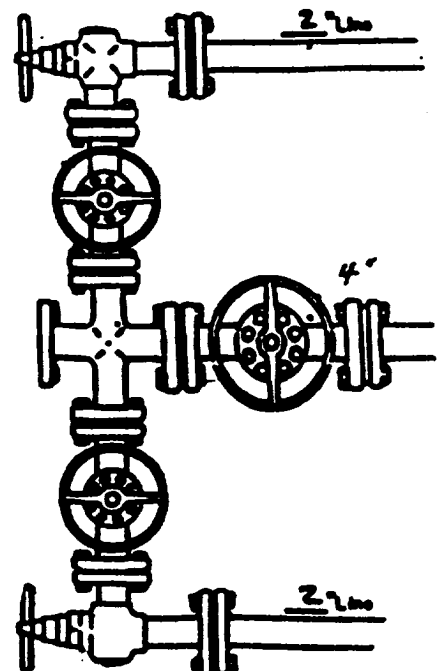


EXHIBIT "E"
CHI OPERATING, INC.
Spruce Federal, Well No. 1
BOP Specifications