

HIBIT "A"
HANSON OPERATING COMPANY
MAC FEDERAL WELL No. 1
2310 FNL 1650 FWL, Sec. 7,
T9S, R30E, NMPM, Chaves Co

- CONTRACTOR TO FURNISH
1. ALL EQUIPMENT ABOVE CASING HEAD HOUSING INCLUDING CHOKE MANIFOLD.
 2. INDEPENDENT AUTOMATIC ACCUMULATOR 3000 PSI WP.
 3. B.O.P. CONTROLS TO BE LOCATED NEAR DRILLER'S POSITION AND AT SAFE DISTANCE FROM THE WELL.
 4. SPARE SET PIPE RAMS TO FIT PIPE IN USE.

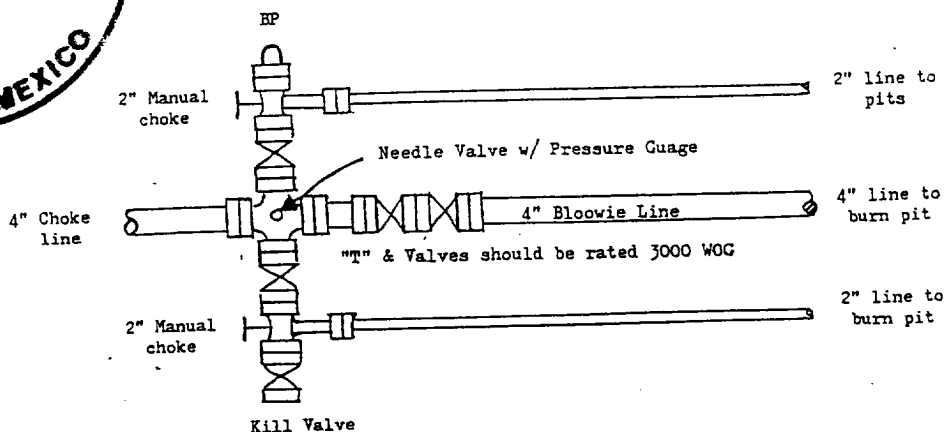
- COMPANY TO FURNISH
1. WELLHEAD EQUIPMENT.
 2. WEAR DUSHING, IF REQUIRED.

- GENERAL NOTES
1. ALL VALVES, PIPING, FLANGES ETC. MUST HAVE MINIMUM WORKING PRESSURE EQUAL TO WORKING PRESSURE OF PREVENTERS. VALVES MUST BE OF THE FULL OPENING TYPE.
 2. CONTROLS TO BE OF STANDARD DESIGN AND EACH MARKED SHOWING OPEN AND CLOSED POSITION.
 3. CHOKE MANIFOLD AS SHOWN IN APP. 18 AND 19 REPLACABLE PARTS AND WRENCHES TO BE CONVENIENTLY LOCATED FOR IMMEDIATE USE.
 4. ALL VALVES TO BE EQUIPPED WITH HANDWHEELS.
 5. CHOKE LINES MUST BE SUITABLY ANCHORED.
 6. DEVIATIONS FROM THIS DRAWING MAY BE MADE ONLY WITH THE PERMISSION OF THE COMPANY.

MINIMUM BLOWOUT PREVENTER REQUIREMENTS

NORMAL PRESSURE SERVICE

CHOKE MANIFOLD SETUP



The above Manifold Hookup Design will meet minimum requirement by the Operator. Drilling Contractor to supply choke line and choke manifold. Operator to supply downstream lines from manifold assembly to pits.

