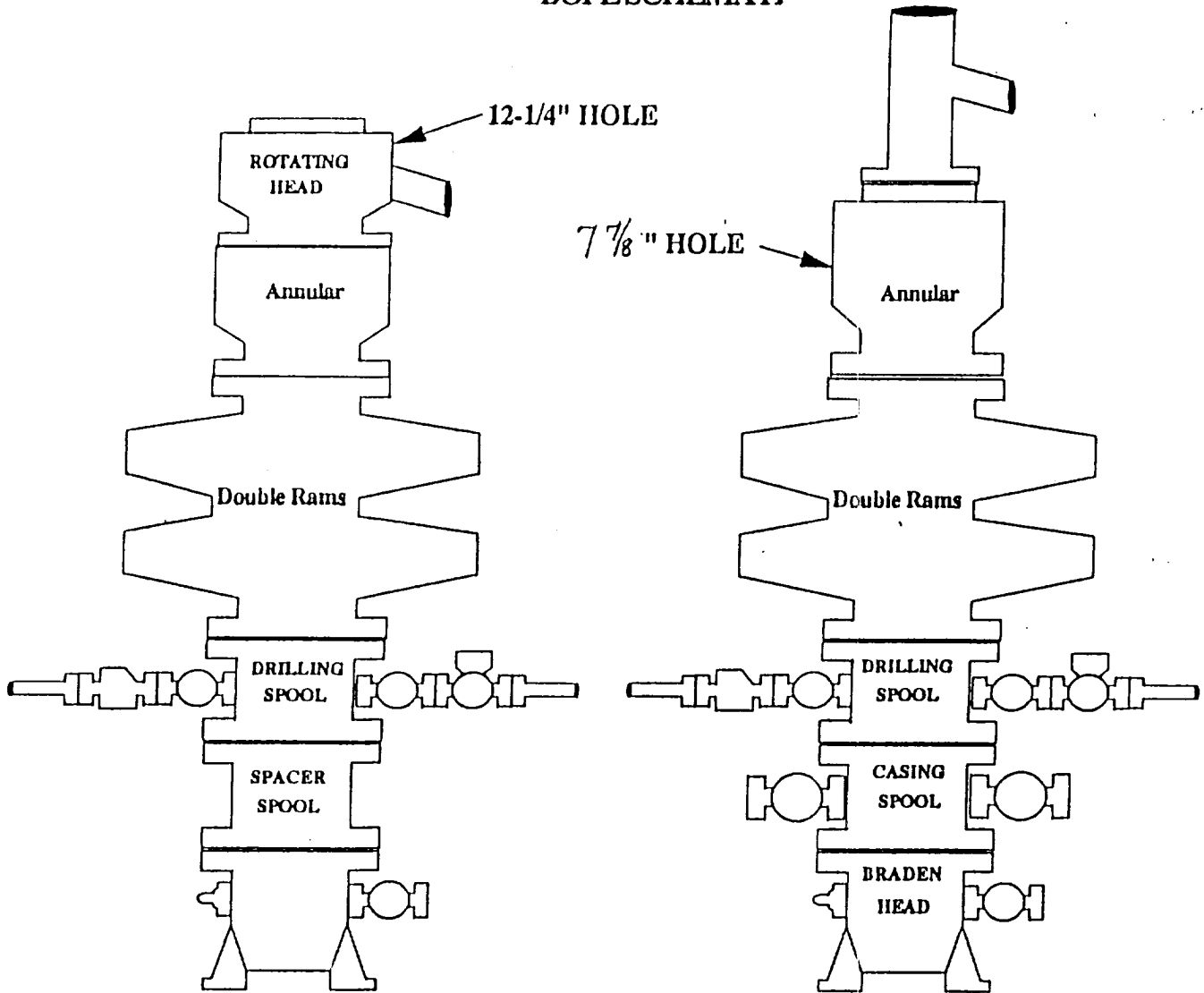
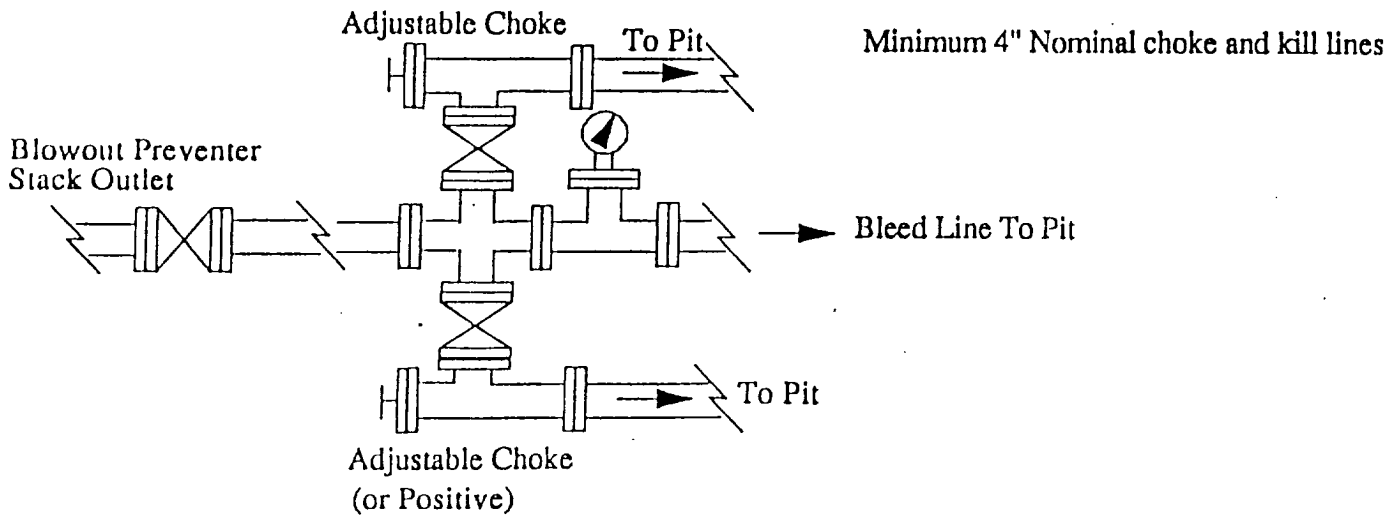


BOPE SCHEMATIC



Choke Manifold Requirement (2 000 psi WP)
 NO ANNULAR REQ'D



MACK ENERGY CORPORATION
 EXHIBIT #1-A