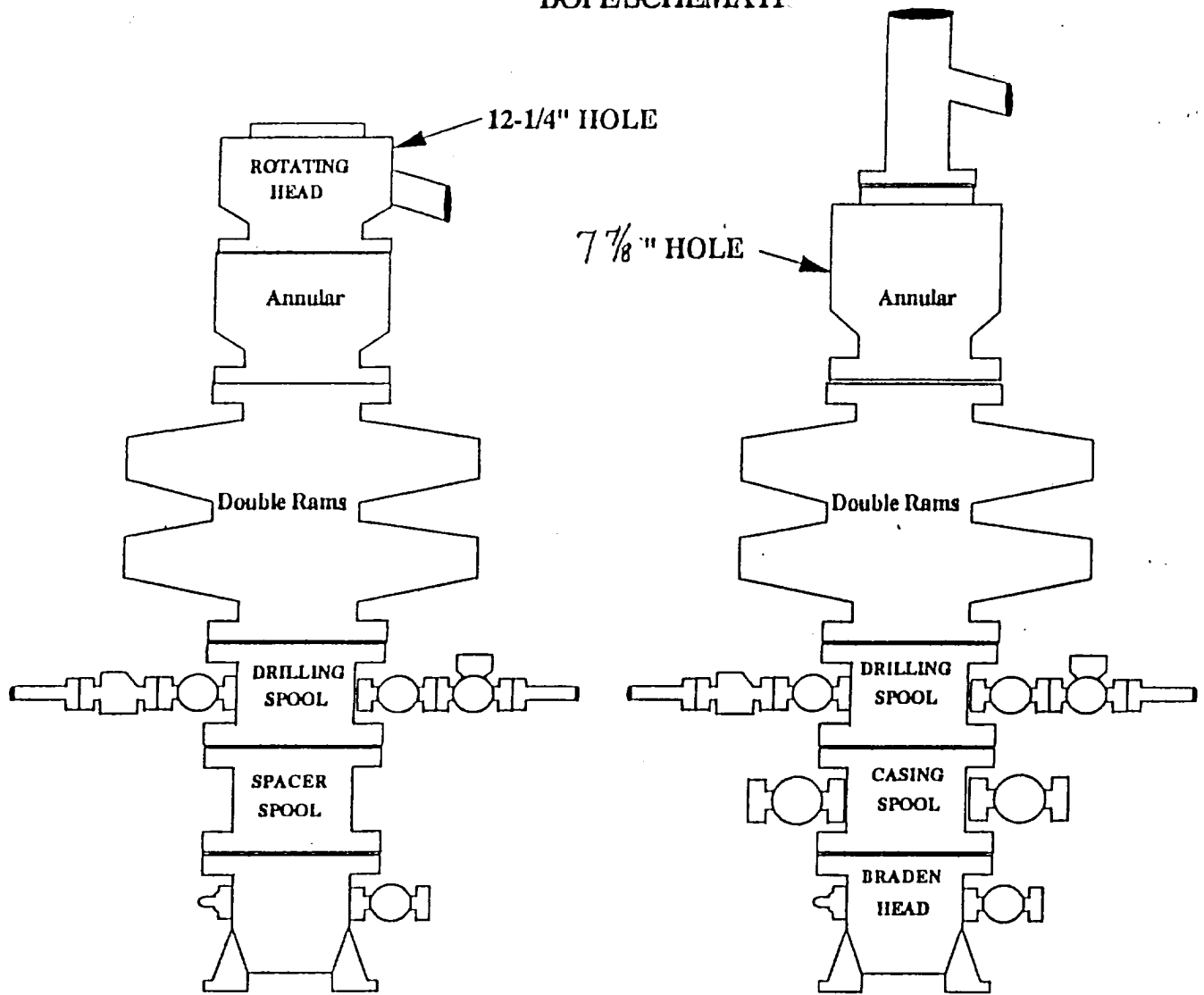
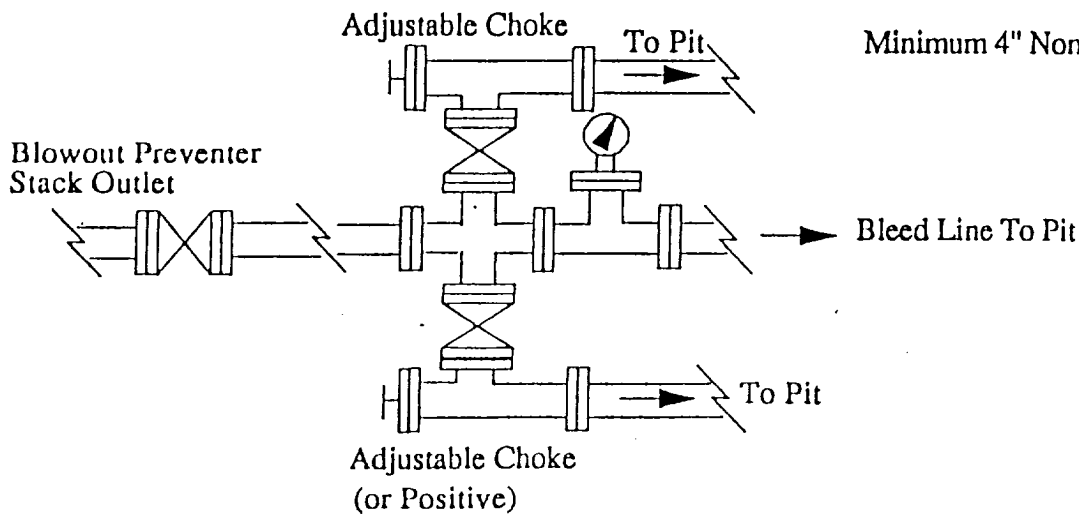


BOPE SCHEMATIC



Choke Manifold Requirement (2000 psi WP)

NO ANNULAR REQ'D



Minimum 4" Nominal choke and kill lines

MACK ENERGY CORPORATION
EXHIBIT #1-A