

FIGURE 1. DUCTILITY VERSUS PRESSURE FOR VARIOUS TYPICAL MATERIALS

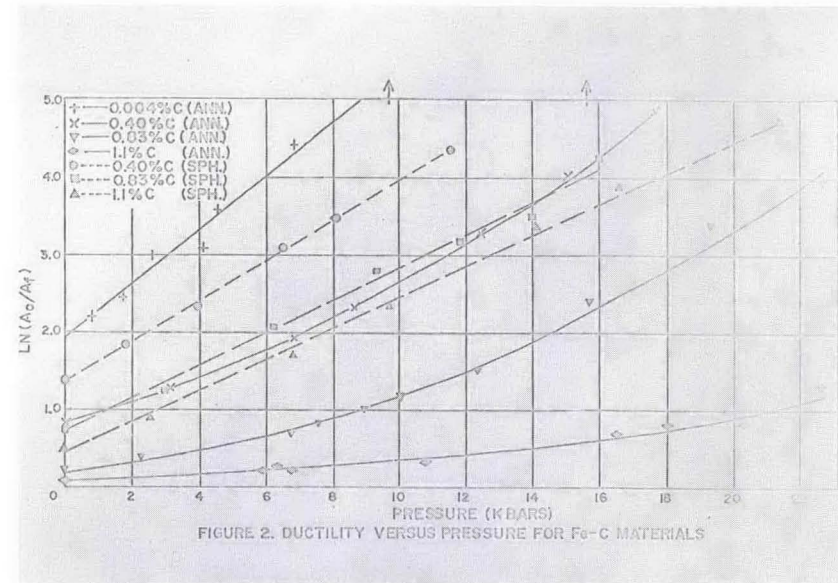


FIGURE 2. DUCTILITY VERSUS PRESSURE FOR Fe-C MATERIALS

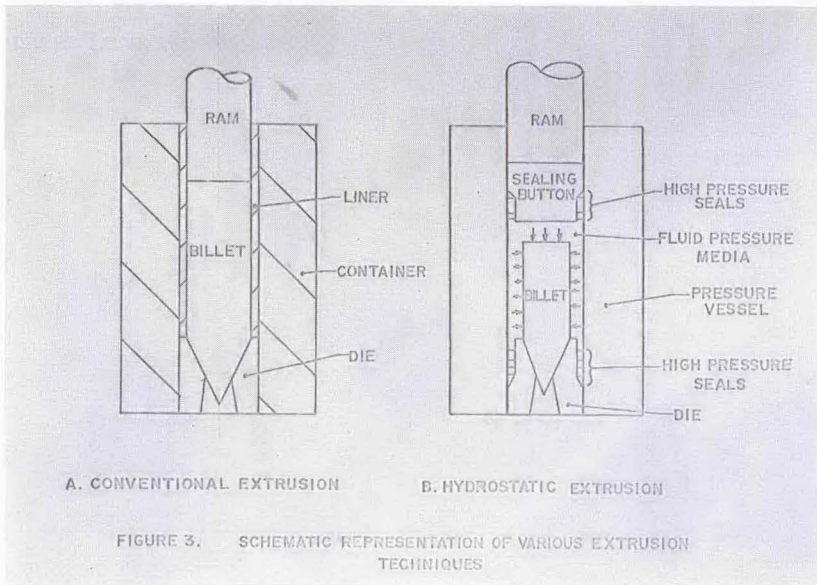


FIGURE 3. SCHEMATIC REPRESENTATION OF VARIOUS EXTRUSION TECHNIQUES

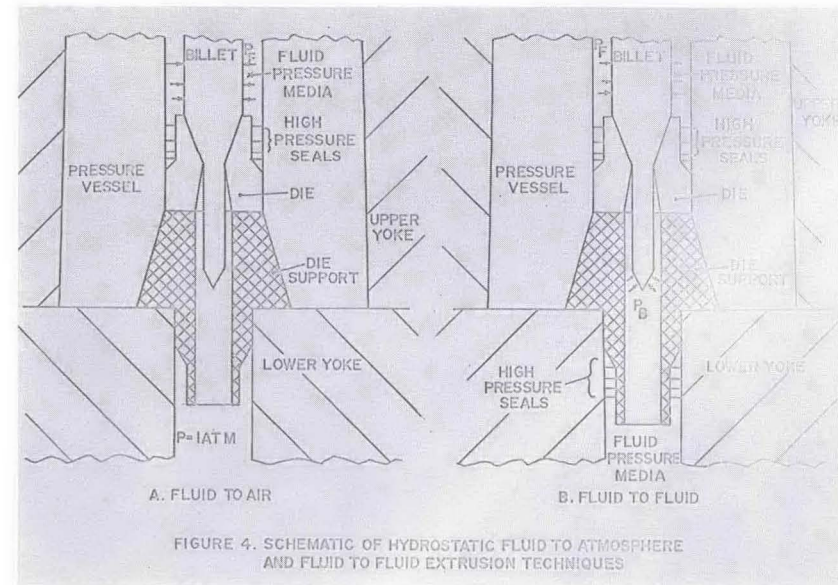
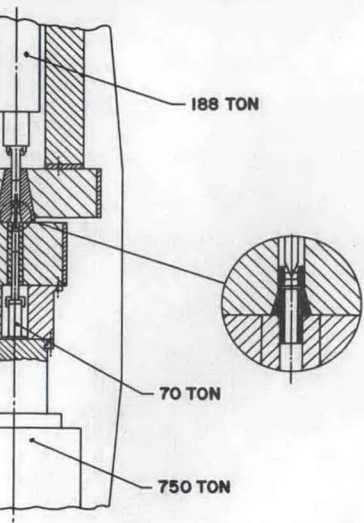
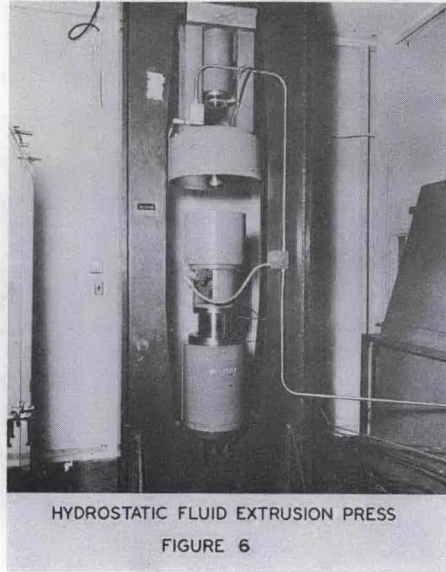


FIGURE 4. SCHEMATIC OF HYDROSTATIC FLUID TO ATMOSPHERE AND FLUID TO FLUID EXTRUSION TECHNIQUES



HYDROSTATIC EXTRUSION PRESS

FIGURE 5



HYDROSTATIC FLUID EXTRUSION PRESS

FIGURE 6

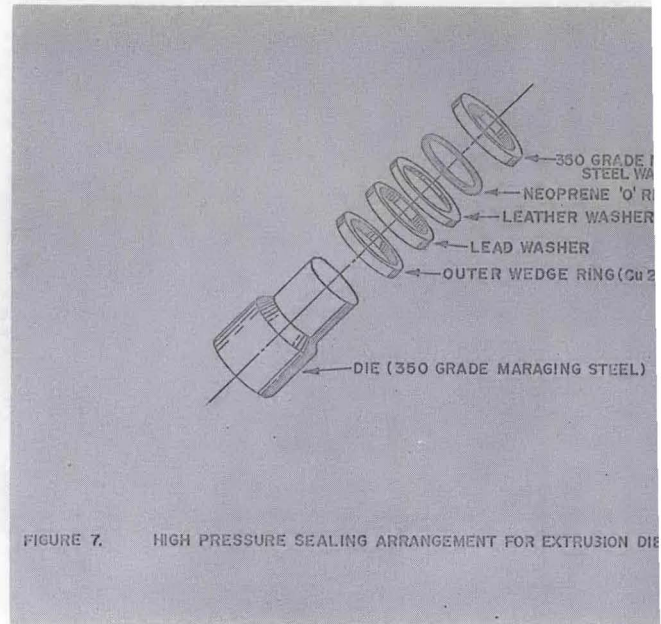


FIGURE 7. HIGH PRESSURE SEALING ARRANGEMENT FOR EXTRUSION DIE

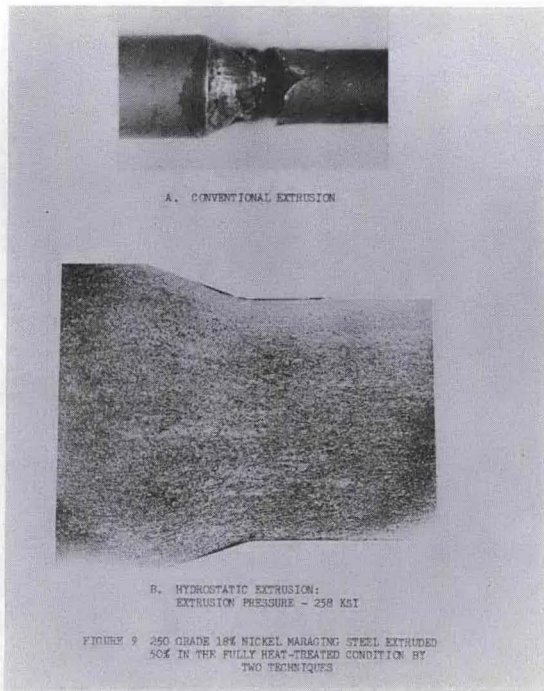
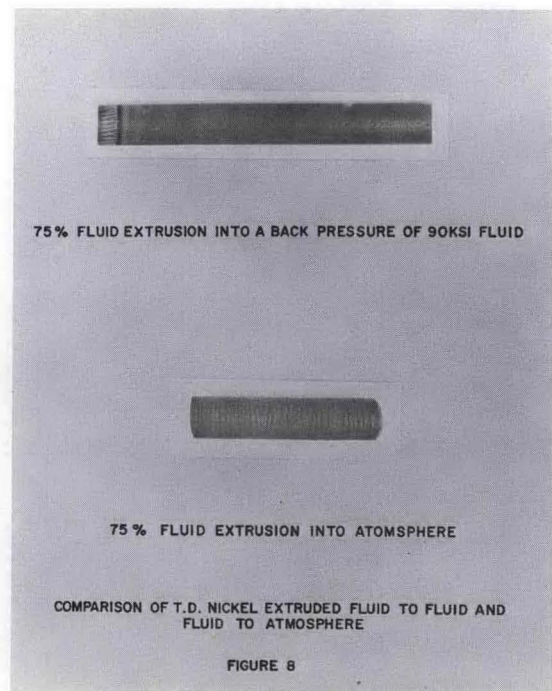


FIGURE 9 250 GRADE 18% NICKEL MARAGING STEEL EXTRUDED 50% IN THE FULLY HEAT-TREATED CONDITION BY TWO TECHNIQUES



COMPARISON OF T.D. NICKEL EXTRUDED FLUID TO FLUID AND FLUID TO ATMOSPHERE

FIGURE 8