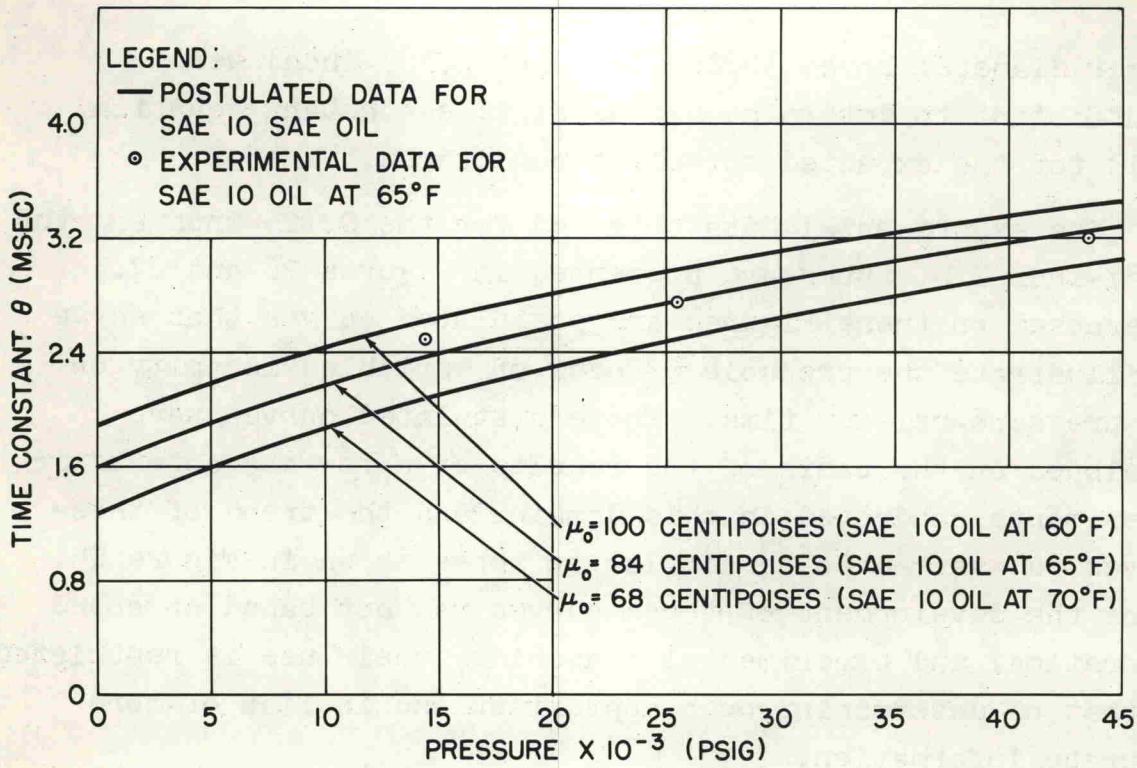
larger diameter bores (0.125-inch and 0.187-inch) were insufficient to determine a general time-constant equation valid for the expected turbulent conditions.

The experimental data obtained for the 0.125-inch and the 0.187-inch I.D. tubes are presented in Figures 26 and 27. Superposed on these Figures are postulated curves that serve to illustrate the probable effects of variable viscosity on the pressure-release time. These postulated curves were developed on the basis of the results of a few characteristic experiments conducted in this domain, and the trend of these curves is assumed to be similar to those shown in Figure 25. Since the development of these curves was not based on sound theoretical and experimental reasoning, their use is restricted to that of determining rough approximations in lieu of more accurate information.



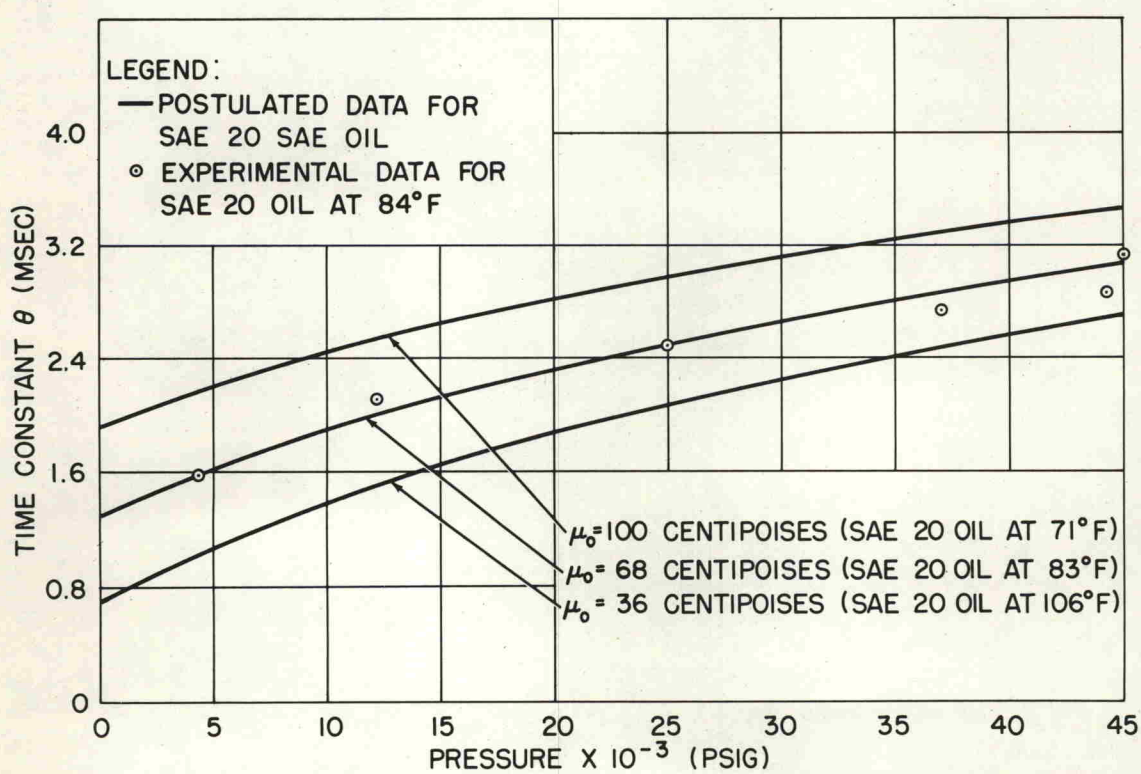


FIG. 26 EFFECTS OF VISCOSITY ON RATE OF RELEASE OF PRESSURIZED FLUID THROUGH 0.125-INCH DIAMETER ORIFICES