

Homework #1

While drilling a 10,100 ft with 9.8# mud a kick was taken, the pipe rams of the BOP were closed and a SIDP pressure of 500 psi was recorded. Calculate the new mud weight if a hydrostatic pressure of 250 psi over the reservoir pressure is required. Also calculate the volume of Barite and water needed to get the mud to the new weight, for both the limited and unlimited pit volumes. The pit volume is 200 bbls.