

The richest part of an oil shale seam is called the mahogany zone. If this zone is located 1000 ft below the surface, what is the gauge pressure in this zone in atmospheres? What is the absolute pressure?

Data: Assume earth density to have a specific gravity of 2.7, and that the pressure can be calculated from  $\rho gh$ . The oil shale seam is located near Vernal, Utah, with an surface atmospheric pressure of 0.83 atm.