Problem Set 14 (PS14) due Friday December 3

PS14-1   A diving bell is to operate at 30 psia with a breathing gas mixture of 21% Oxygen and 79 % Helium by weight.   A psychrometric chart is needed. Begin constructing the psychrometric chart by taking the first point as a specific humidity of .02 lb water/lb dry helium and an enthalpy of 124 Btu/ lb water/lb dry helium and calculating the dry bulb temperature, specific humidity, specific volume, dew point and wet bulb temperature at this point. Sketch the chart showing this data.