Homework #1

Problems 6.1, 6.2 (including extra below), 6.3, & extra problem below.

Extra for 6.2:
For the feed gas:
- What is the composition in mass%?
- What is the C3+ liquid content (in GPM)?
- What are the net & gross heating values (Btu/scf)?

For the produced gas:
- What is the net gas produced after taking out the liquids (in MMscfd)?
- What is the gross heating value of this net produced gas (Btu/scf)?

Extra problem:
Using the ideal gas law determine the conversion between lb.moles & ft³ (to five significant digits) & g.moles & m³ for the following sets of pressures & temperatures:
- 1 atm & 60°F
- 1 atm & 0°C
- 1 bar & 0°C
- 14.73 psia & 60°F