Reservoir – Class 5 – Thurs Feb 18

Sign Attendance Sheet

Review test and return to class. Understand everything

So Far – Covered Introduction, Chapter 1 & 2

Today – Will cover Chapter 3, Fluids and PVT Studies

Why do studies?

Pg 78-79 – phase diagram – liquid, mixture, vapor

Pg 80 – pressure temperature diagram

pg 82 – oil reservoir, under saturated, bubble point

Pg 84 – behavior of oil and gas from reservoir to surface – figure on pg 85

Pg 86 – ideal gas equation

Pg 87 – table of properties

Pg 89 – condensate – propane, butane, pentanes. Measured in bpm

Pg 91 – API gravity, barrel of oil in reservoir is smaller barrel on surface

Pg 95, 98 – producing well GOR

Pg 102 – water and hydrocarbons – emulsion, hydrates

Pg 105-114 – charts on hydrocarbon properties

Homework – review test and Chap 3.

Read Chap 4

Work on Tech Report (paper copy due March 3) & presentation

Class 6 – Thurs Feb 25 – go over Chap 4

Class 7- Thurs March 3 - Test # 2 on Chap 3 & 4, plus some from Test # 1