Reservoir – Class 9 – Thurs Mar 24

Sign Attendance Sheet

Thurs, April 21, Employment Fair, Learning Hub, room 230, 10am-2pm, dora.campa@hccs.edu

Hand in technical reports, give presentations

So Far – Covered Introduction, Chapter 1 -5

Today – Will cover Chapter 6 - Multiphase Flow

Why is this important? How does it compare to Single Phase ?

Pg 178-179 – Fig 6.1 and 6.2. Viscosity, gravity, capillary pressures, fluid saturation

Pg 180-181 – Fig 6.3a, 6.3b, 6.3d. Residual oil saturation.

pg 182-183 – relative permeability = reduced permeability when 2 fluids flow together

Pg 184 – total flow reduced, critical gas saturation to get flow

Pg 189 – frontal displacement

Pg 190 – breakthrough

Pg 193 – calculate speed of fluids

Pg 201-206, and 209 – tongue, fingering, coning

Pg 210- conclusions

Schlumberger and Halliburton sites

Homework – review Chap 5, 6 and previous tests

Turn in Technical Report # 1 & give presentation # 1, if not done

Grades provided after Test # 1, Test # 2, Technical Report # 1 and Presentation # 1 completed

Class 10- Thurs, March 31 – Test # 3 on Chapter 5 & 6, and some from Tests # 1 and # 2

Class 11- Thurs, April 7 – review tests, give Presentation # 1, discuss Chapter 7, turn in Technical Report #2, due date extended from March 31

Class 12 – Thurs, April 14 – Presentation # 2, discuss Chapter 8