Geology – Class 2 – Mon Feb 1

Sign Attendance Sheet

Safety

[www.spe.org](http://www.spe.org) – join for free

Pg 1- table 1.1 hydrocarbons, hydrogen and carbon

Pg 2 – waxy crude

Pg 4 – asphalt, API gravity, formula, light oil 35-45 API, heavy oil <25 API, value

Pg 5 – sulfur, sweet <1%, sour >1%, value, benchmark crudes, pour point waxy crude

Pg 6 – oil measurement bopd, 42 gal. Drums are 55 gallons

Pg 7 – refinery, bubble cap trays in distillation tower

Pg 9- table 1-4, what’s made from oil. Table 1-5, LPG and inerts, don’t burn

Pg 10 – H2S, GOR dissolved gas in oil, associated gas, non-associated gas, condensate

Pg 11 – gas measurement cubic feet per day, kcfd, mcfd. SCF is 60 deg F and 14.6 psi, BTU, BOE

Pg 13 – rocks, minerals, deposition.

Pg 14-16 – igneous, sedimentary. Unconsolidated. consolidated

Pg 17 – grains, cement, pores, fig 2-4. Freshwater, brackish, seawater is 35-300 ppt. % , ppm

Pg 18 – fig 2-6, grain sizes

Pg 19 – Plate 2-1, lithology, metamorphic rock

Pg 20- earth’s crust

Pg 22- basins of world

Pg 23 – fig 2-11

Homework – read Chap 3 and 4

Think about subject for Tech Report (due March 7) & presentation

Class 3 – Mon Feb 8 – will review Chap 3 and 4