Reservoir – Class 2 – Thurs Jan 28

Sign Attendance Sheet

Provide phone and email contact info – 1 missing

Syllabus - 1 missing

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

Pg 15 – core analysis, PVT analysis, well logging

Pg 16 – Fig 1 – things Reservoir engineer needs to draw reservoir image

pg 16 – seismic, sedimentary, chemical measurement, tectonics, production data

Pg 17 – from geo model, calculate reserves, volume in place, location of new wells, simulation model of field flow streams for existing wells and new well

Pg 17 – cross section figure 1.2

Pg 18 – isopach map. Organic matter cooks. Source rock contains organic matter

Pg 19 – hydrocarbons migrate from source rock to lower pressure rock, gravity rise

Pg 20 – secondary migration to reservoir rock where trapped

Pg 21 – reservoir porosity and permeability with barrier

Pg 21 and 22 – sandstone – grains of quartz, fig 1.5a

Pg 22-23 – carbonate – limestone and dolomite – fig 1.5b

Pg 23 – traps – structural and stratigraphic

Pg 25 – seismic survey, 2D, 3D, 4D

Homework – read Chap 2

Think about subject for Tech Report (due March 3) & presentation

Class 3 – Thurs Feb 4 – will review Chap 2