Exp Prod – Class 7 – Mon June 27

[www.spe.org](http://www.spe.org). [www.spegcs.org](http://www.spegcs.org), free SPE webinars

Today

Return test # 3 and review questions

Individual presentations # 1 and # 2 and # 3

Discuss Group Presentation # 4 with others

Discuss Chap 8, 9, 10

Chapter 8 – Field Appraisal

Pg 191-192- decisions and work done in this phase of life cycle

Pg 192 – uncertainties

Pg 197 – create decision tree analysis with possible outcomes, chance of happening

Pg 199 – other decision factors

Chapter 9 – Reservoir Dynamic Behavior

Pg 202-203 – primary production, secondary production, pore compaction, material balance, fig 9.1

Pg 203-210 – reservoir drives, solution gas, gas drive, water drive, fig 9-3, 9-4, 9-5, 9-6, 9-7, 9-8

Pg 210-217 – gas reservoirs, gas mobility, fig 9-11, 9-12

Pg 217-222 – fluid displacement, fig 9-14, 9-16, 9-17

Pg 222 – reservoir simulation

Pg 223-224 - recovery factors, fig 9-19

Pg 224-226 – production profile, enhanced oil recovery

Chapter 10 – Well Dynamic Behavior

Pg 229-230 – number of wells

Pg 231- 234 – drawdown, skin, coning, fig 10-3, 10-4

Pg 234-236 – horizontal wells

Pg 237-241 – production testing and bhp, fig 10-9, 10-10, 10-12

Pg 241-244 – tubing performance, productivity index, fig 10-14, 10-15, NODAL analysis

Pg 244-249 – well completions, fig 10-16 through 10-21

Pg 249-254 – completion technology and intelligent wells, fig 10-22 through 10-26

Pg 254-260 – artificial lift, fig 10-27 through 10-30

Pg 260-264 – subsea operations

Homework – review Chap 8, 9, 10 for test. Complete all 3 individual & plan group presentations

Class 8 – Wed, June 29 – Test # 4 on Chap 8, 9, 10

Class 9 – Wed July 6 – make up tests and all 3 individual presentations, if not completed. Work on group presentations

Class 10 – Mon July 11 – Group presentation # 4. Discuss Chap 11, 12, 13