What to know for the exam.

- Theory: the lecture notes chapter 1 to 9.
 - How does a logging method work
 - What are specific logs measuring
 - What are the pitfalls
 - How do cross-plots work
 - What are the do's and don'ts for environmental corrections
 - What happens during and after drilling with the well, sidewall samples, cores, etc.
 - Geothermal gradient and effect on fluid resistivity and bottom hole pressure
- Exercises with the theory and laboratory assignments:
 - You understand and replicate the exercises Bad Bentheim, Olga, Saturnus,

Tuffy, Simple and the field exercise of the last two sessions.

- You can calculate porosity and permeability with Darcy, Poiseuille, Carman-Kozeny, Pyknometer.

- You understand and can calculate errors.

- Equations you must know by heart and know how and when they are used!
 - ARCHIE 1, 2 (Rw, Ro, Rt, m, n, phi)
 - PRINCIPLE OF WAXMAN-SMITH
 - SHALE VOLUMES BY GR, SP, FDC/CNL
 - Porosity equations: ARCHIE, FDC/CNL (total & effective), SONICS (Whiley), DENSITY
 - Darcy, Poiseuille, Carman-Kozeny
 - Capillary equations (two & combined)
 - Multi-mineral principle (n equations with n unknown).