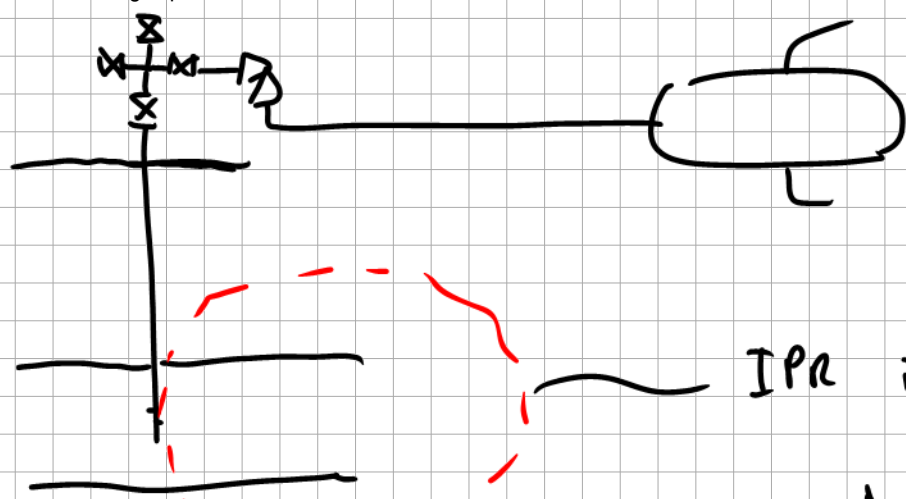
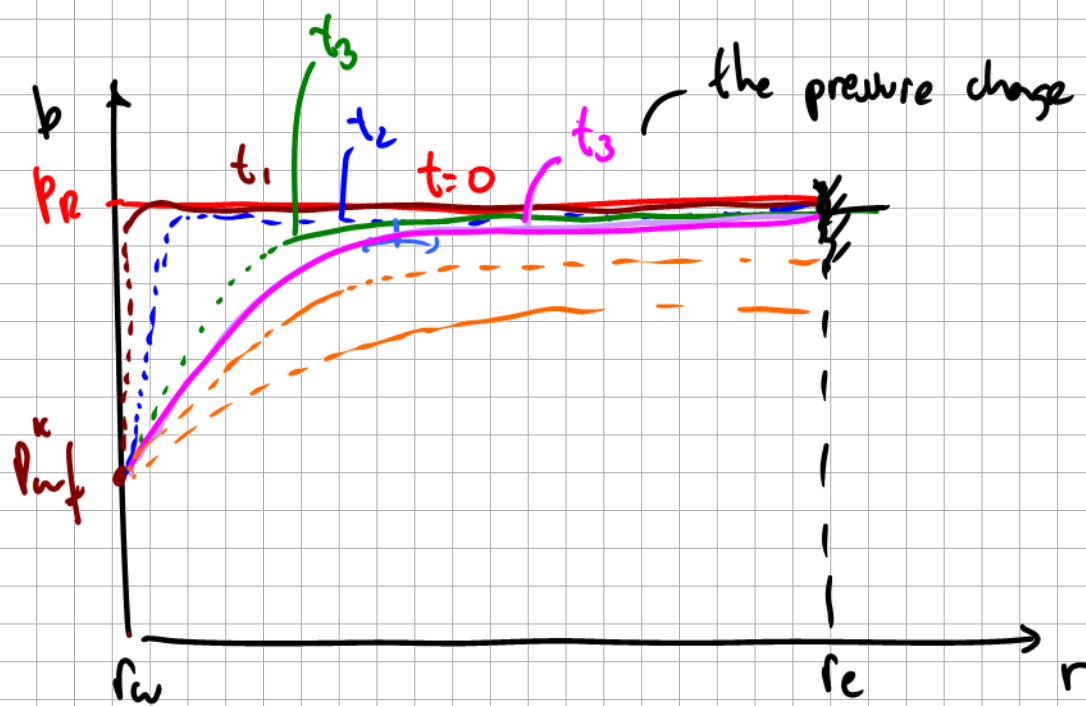






Conservation of mass + Darcy flow in a radial reservoir ;
single-phase fluid

$$\frac{\partial^2 p}{\partial r^2} + \frac{1}{r} \frac{\partial p}{\partial r} = \alpha \frac{\partial p}{\partial t}$$

$$\alpha = \frac{\mu \phi C}{k}$$