

LECTURE NOTES

Jon Steinar Gudmundsson
November 2008

INTRODUCTION (Petroleum Production Engineering)

- Flow and pressure in near wellbore formation
- Flow and pressure in well/tubing
- Wellhead and template conditions
- Flowline, from template to platform or terminal
- Processing subsea, platform or terminal

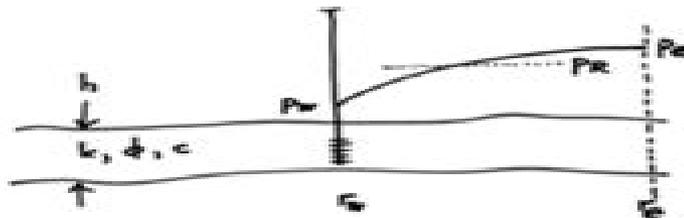
PRODUCTION WELLS

Deliverability

- Analyze and then synthesize
- Rate and pressure main parameters
- Reservoir performance
- Inflow performance
- Outflow performance, tubing performance

Pressure Profile and Pressure States in Reservoirs

- Pressure profile from r_w to r_e , from well radius to outer boundary



k = permeability

ϕ = porosity

c = compressibility

h = reservoir thickness

r_w = well radius

r_e = reservoir radius (radial system) e = exterior

p_w = p_{wf} well flowing pressure

p_e = pressure at reservoir outer boundary

p_r = reservoir pressure (volume average)

- Steady-state (stasjonært tilstand), SS
- Pseudosteady-state (pseudostasjonært tilstand), PSS

Petroleum Engineering Lecture Notes

**Shubham Mahajan, Divneet Singh
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