

Petrophysical Sensemaking

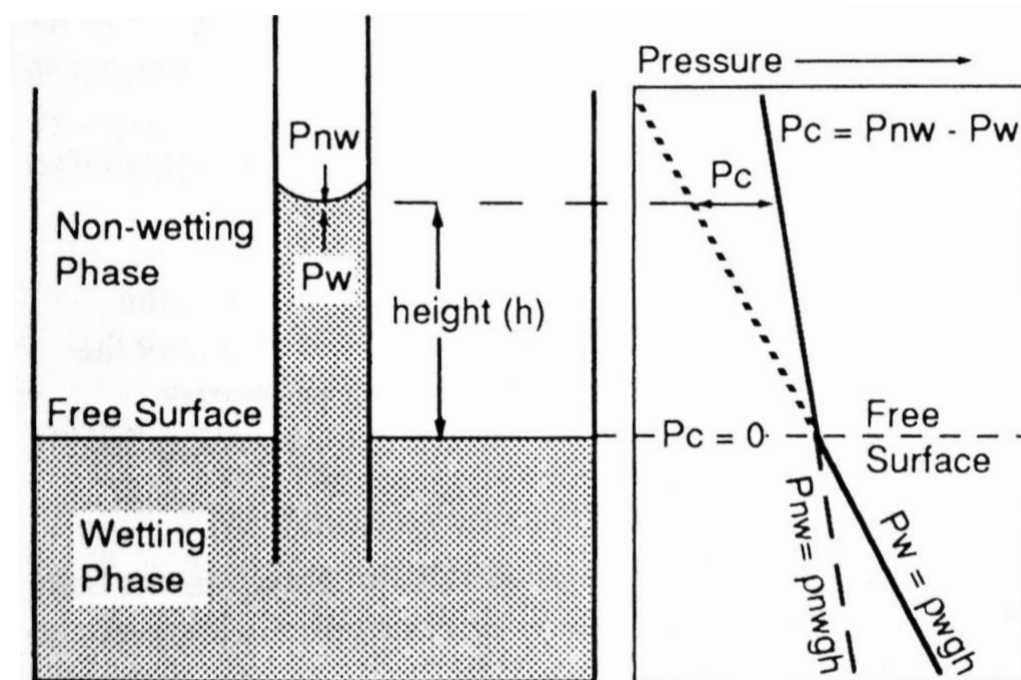
by Trond Rolfsvåg

The objective of the presentation is to reveal logical inconsistencies at the core of Petrophysics, and how these logical inconsistencies have confused subsurface professionals in the past and still threaten future technological progress.

The presentation will show examples of how schoolbooks and technical textbooks defines the so-called “capillary pressure” in a way that are not logically consistent. These inconsistencies have obscured what interplay is really going on between water, rocks and hydrocarbons in the subsurface.

A correct physical understanding makes it easier to understand the reservoir situation so decisions can be made with more confidence. If the physical understanding is cluttered with inconsistencies technological improvements will be much harder to achieve.

The improved physical understanding of how pressure of hydrocarbons and water are equilibrating across a reservoir mandate that some of the old nomenclature should be refined.



This illustration contains several misleading content elements. Can you spot them?

Speaker bio:

Trond Rolfsvåg is a Reservoir Engineer and the CEO of Hydrophilic. He holds a master's degree in petroleum technology from the University of Stavanger (UiS). With over 30 years of experience working for leading integrated oil companies, Trond brings a wealth of industry knowledge and expertise. In 2016, he founded Hydrophilic with the goal of developing innovative tools to enhance efficiency and sustainability in the exploration and production (E&P) industry.