PTV-Modelling as a Predictive Tool in Hydrocarbon Exploration with Examples from the Mid-Norwegian Continental Shelf

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Computerized PTC-modelling has been applied on several examples off-shore Mid-Norway to demonstrate how the basic PTV-properties (pressure, temperature and hydrocarbon component distribution) may be critical for the hydrocarbon phase relation in a trap (oil vs. gas or condensates). The productive force of PTV tools in hydrocarbon exploration is tremendous. Hydrocarbon densities, phase relations, gas oil ratios, shrinkage, expansion factor, etc. can be calculated with great certainty with reliable input data. The multiple applications include general basin modelling, flash analysis, dew point analysis and boiling point analysis.

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