

## Basic Applied Reservoir Simulation

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Reservoir simulation is an area of reservoir engineering in which computer models are used to predict the flow of fluids through porous media. Under the model in the broad scientific sense of the word, they understand a real or mentally created structure that reproduces or reflects the object being studied. The name of the model comes from the Latin word *modulus*, which means “measure, pattern”. Modeling is one of the main methods of knowledge of nature and society. It is widely used in ...

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Reservoir simulation tasks. •Gather and input the rock and fluids data (reservoir description) •Choose certain numerical features of the grid (number of cells, cells size, etc) •Setup the correct field wells controls (injection rates, bottom hole pressure constrains, etc). This drives the model.

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