



3d Reservoir Modeling Projects Properties Erco Services

Philip Ringrose, Mark Bentley

A decorative graphic consisting of a semi-transparent red circle with a gradient, positioned to the right of the author names.

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Reservoir Model Design Philip Ringrose, Mark Bentley, 2021-06-09 This book gives practical advice and ready to use tips on the design and construction of subsurface reservoir models The design elements cover rock architecture petrophysical property modelling multi scale data integration upscaling and uncertainty analysis Philip Ringrose and Mark Bentley share their experience gained from over a hundred reservoir modelling studies in 25 countries covering clastic carbonate and fractured reservoir types and for a range of fluid systems oil gas and CO₂ production and injection and effects of different mobility ratios The intimate relationship between geology and fluid flow is explored throughout showing how the impact of fluid type displacement mechanism and the subtleties of single and multi phase flow combine to influence reservoir model design The second edition updates the existing sections and adds sections on the following topics A new chapter on modelling for CO₂ storage A new chapter on modelling workflows An extended chapter on fractured reservoir modelling An extended chapter on multi scale modelling An extended chapter on the quantification of uncertainty A revised section on the future of modelling based on recently published papers by the authors The main audience for this book is the community of applied geoscientists and engineers involved in understanding fluid flow in the subsurface whether for the extraction of oil or gas or the injection of CO₂ or the subsurface storage of energy in general We will always need to understand how fluids move in the subsurface and we will always require skills to model these quantitatively The second edition of this reference book therefore aims to highlight the modelling skills developed for the current energy industry which will also be required for the energy transition of the future The book is aimed at technical professional practitioners in the energy industry and is also suitable for a range of Master s level courses in reservoir characterisation modelling and engineering Provides practical advice and guidelines for users of 3D reservoir modelling packages Gives advice on reservoir model design for the growing world wide activity in subsurface reservoir modelling Covers rock modelling property modelling upscaling fluid flow and uncertainty handling Encompasses clastic carbonate and fractured reservoirs Applies to multi fluid cases and applications hydrocarbons and CO₂ production and storage rewritten for use in the Energy Transition

Reservoir Modeling James Dietrich, 2019-11-29 There are many excellent textbooks about the art of petroleum reservoir modeling or reservoir simulation This is more of a technical narrative than a textbook It s about pitfalls commonly encountered by subsurface modeling teams and how to avoid them The book was written with graduate students in mind who are pursuing a degree in petroleum engineering or earth science Much of the material is new and can not be found elsewhere The author is well aware that practicing an art is a creative endeavor that is filled with interpretation not fact Opinion is infused throughout the narrative But at least the author s opinions on what went wrong in a myriad of projects are based on long personal experience In every one of the example projects the author was present on site as a team member throughout the modeling effort The example projects are major 8 in number and located in North America the Norwegian North Sea Russia the United

Arab Emirates and the United Kingdom My career was 50 years in oil as a reservoir engineer from 1966 to 2016 It covered the gamut from roughneck to operations to research and finally to international consulting The first 10 years were with Shell Oil and Shell Development Companies most of the next 10 years were with Todd Dietrich Chase Inc and the last 30 years were worked as The Dietrich Corporation I knew reservoir modeling was for me after building the first major reservoir model for Shell Oil Company in 1970 The attraction was not surprising My academic credentials in geology and engineering science were a perfect fit with the emerging technology of reservoir simulation The overall chronology just described was recently told in a memoir titled Too Much by Half The Coming Cut in Proved Oil Reserves Dietrich 2019 published by Amazon That book tells my view of how reserves have become systematically inflated aside from any influence of rising oil prices It s actually part way between memoir and non fiction too much of one to be properly the other Dubbed narrative non fiction that tome was written for non technical readers who are generally interested in the peak oil debate an international consulting career or simply expat living This book is a sequel Its content is highly technical in nature Its genre is somewhere between a textbook and narrative non fiction again too much of one to be properly the other It shares modeling experience of the author gained while working as The Dietrich Corporation embedded in modeling teams of clients in 16 countries over a period of two decades At the heart of both narratives is the struggle between reservoir engineers and geologists for control of the reservoir modeling process That power play has now reached an end Rules of the modeling game have quietly been changed by its new masters earth scientists During the prior reign of engineering oil trapped in poor quality rock was excluded from reserves That oil was known to be present but it was cut out of the models because it could not be made to flow It was not considered to be a portion of proven reserves That was the status for decades Under the new dominion of earth science oil stored in poor quality rock is entered into the reservoir models and made available by combining it with the better quality rock I call this process Moonbeam Modeling It s like making high risk junk bonds valuable to investors by combining them with bonds rated AAA to A and marketing the lot as bonds rated BBB to B still good enough to attract capital The difficult to move junk bonds and inaccessible oil can both be made to flow by fictitiously upgrading them

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