

# Schlumberger Petrel Manual

Stratigraphic Reservoir Characterization for Petroleum Geologists, Geophysicists, and Engineers  
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The Zoologist  
The Zoologist  
The Emu  
Wildlife Branch Bulletin  
Wildlife Publication  
Transactions and Proceedings of the Royal Society of New Zealand  
Transactions and Proceedings of the New Zealand Institute  
Transactions  
Jane's All the World's Aircraft  
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South African Shipping News and Fishing Industry Review  
Dictionary of Phrase and Fable  
A Handbook of the Birds of Tasmania and Its Dependencies  
Publishers' Circular and Booksellers' Record of British and Foreign Literature  
Transactions of the Norfolk and Norwich Naturalists' Society  
Birds of the Antarctic and Sub-Antarctic  
House documents  
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New Zealand. Department of Internal Affairs. Wildlife Division  
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in this chapter the principles of reservoir modeling workflows and their applications have

been summarized reservoir modeling is a multi disciplinary process that requires cooperation from geologists geophysicists reservoir engineers petrophysics and financial individuals working in a team setting the best model is one that provides quantitative properties of the reservoir though this is often difficult to achieve there are three broad steps in the modeling process the team needs to first evaluate the data quality plan the proper modeling workflow and understand the range of uncertainties of the reservoir the second step is data preparation and interpretation which can be a long tedious but essential process which may include multiple iterations of quality control interpretation calibration and tests the third step is determining whether to build a deterministic single data based model or stochastic multiple geostatistical iterations model the modeling approach may be decided by the quality and quantity of the data there is no single rule of thumb because no two reservoirs are identical object based stochastic modeling is the most widely used modeling method today the modeling results need to be constrained and refined by both geologic and mathematical validation variogram analysis is very important in quality control of object based stochastic modeling outcrops are excellent sources of continuous data which can be incorporated into subsurface reservoir modeling either by 1 building an outcrop reservoir model or 2 identifying and developing outcrop analogs of subsurface reservoirs significant upscaling of a reservoir model for flow simulation may well result in an erroneous history match because the upscaling process often deletes lateral and vertical heterogeneities which may control or affect reservoir performance particularly in a deterministic model reservoir uncertainties are easier to manipulate by object based stochastic models choosing the best realization approach for the reservoir model is the key to predicting reservoir performance in the management of reservoirs

reservoir characterization as a discipline grew out of the recognition that more oil and gas could be extracted from reservoirs if the geology of the reservoir was understood prior to that awakening reservoir development and production were the realm of the petroleum engineer in fact geologists of that time would have felt slighted if asked by corporate management to move from an exciting exploration assignment to a more mundane assignment working with an engineer to improve a reservoir s performance slowly reservoir characterization came into its own as a quantitative multidisciplinary endeavor requiring a vast array of skills and knowledge sets perhaps the biggest attractor to becoming a reservoir geologist was the advent of fast computing followed by visualization programs and theaters all of which allow young geoscientists to practice their computing skills in a highly technical work environment also the discipline grew in

parallel with the evolution of data integration and the advent of asset teams in the petroleum industry finally reservoir characterization flourished with the quantum improvements that have occurred in geophysical acquisition and processing techniques and that allow geophysicists to image internal reservoir complexities practical resource describing different types of sandstone and shale reservoirs case histories of reservoir studies for easy comparison applications of standard new and emerging technologies

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