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Perspectives in integrated reservoir-distribution analysis a linkage from sedimentology to seismic geomorphology and geostatistics

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Abstract: This paper attempts to seek an effective methodology for integrated sedimentological, seismic geomorphological and geostatistical reservoir-distribution analysis. Recent developments in sedimentology (e.g., depositional systems and sequence stratigraphy) and 3D seismic geomorphology have improved our understanding of three-dimensional reservoir distributions on the basis of genetic and deterministic concepts. As geologic constraints, the sedimentological and seismic geomorphological information is used for a geostatistical reservoir characterization to obtain realistic distribution maps on reservoir properties. In this characterization flow, it can be efficient that known facts derived from sedimentological concepts are dealt with deterministically, whereas unknown territories (e.g., internal heterogeneity) are dealt with stochastically.

Key words: [reservoir distribution](#), [reservoir characterization](#), [sedimentology](#), [sequence stratigraphy](#), [3D seismic technology](#), [seismic geomorphology](#), [geostatistics](#)



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