

GEOLOGICAL MODELING OF COMPLEX STRUCTURES IN PRE-SALT REGIONS: SYNTHETIC EXAMPLES

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RESUMO: In the last years, large pre-salt discoveries have been found in most areas of the deep and ultra deep waters from the Brazilian South Margin Basins. That is significant interest in better pre-salt imaging. The discovery of the oil in the pre-salt layers was possible due to the development of new technologies 3-D and 4-D, as well as the advanced drilling techniques in deep waters. In this work, we present the results of petroleum system modeling by simulating complex salt and pre-salt layers that can be part of sedimentary basins and areas with appropriate structures for accumulation of hydrocarbons. Additionally sections or slices had been generated to visualize the internal structure of the studied geological objects. These models permit the generation of seismic data and the testing of the efficiency of different approaches for the seismic processing of complex geological structures in deep media.

PALAVRAS-CHAVE: PRE-SALT LAYERS; DEEP WATERS.