

GEOLOGICAL MODELING OF THE AMAZONIAN PALEOZOIC BASINS: EXAMPLES FROM THE AMAZONAS AND SOLIMÕES BASINS

Pedro Andrés Chira Oliva¹; Simeí Dias²; Herbert Neves³; João Carlos Ribeiro Cruz⁴

¹ UNIVERSIDADE FEDERAL DO PARÁ; ² UNIVERSIDADE FEDERAL DO PARÁ; ³ UNIVERSIDADE FEDERAL DO PARÁ; ⁴ UNIVERSIDADE FEDERAL DO PARÁ

RESUMO: In the studies on the Brazilian Amazonian Paleozoic basins involving geophysical exploration, a sufficiently frequent problem is the presence of diabase sills and dikes into the Paleozoic sequences, which difficult the propagation of the seismic waves, reduces the seismic imaging and generally hindering the interpretation of data due the formation of false structures, which may increase the risk of exploration considerably. In this work, we present the results of the 3-D interpretation and modeling of an area of interest in the Amazonas basin, based in four seismic lines. Likely, are presented the results of the 2.5 modeling of an area of interest in the Solimões basin. These models contribute to understand and quantify the risk associated with hydrocarbon exploration and production in this region where there exist diabase sills.

PALAVRAS-CHAVE: AMAZONIAN PALEOZOIC BASINS; DIABASE SILLS.