

# *Geological Structure in the South East of Zagros Fold-Thrust Belt. (Hormozgan Province, South Iran)*

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## Abstract

To boost the knowledge of the Oil and Gas industry for an important zone in the South East of Iran (Zagros fold thrust-belt), a structural cross section has been generated as one of the best ways to understand the geological evolution of this province. As a principal aim of this study is to understand the evolution of the area of study throughout different methods and approaches. The methodology involve a combination of multidisciplinary techniques such as: 3D geological mapping, remote senses, structural analysis, well correlation and 300 km of 2D seismic survey interpretation. From this research was possible to found several geological features allowing to characterize their principal structural components, like, vergence, symmetry and wavelength. Also was possible to interpret two salt structures located in onshore and offshore. The results were 1550 km<sup>2</sup> of geological cartography and 125.77 km length structural cross section. The level of detachment for the main structures and the possible pathway of deformation was possible to interpret from the analysis of this research project.

Keywords: Structural cross section, 3D mapping, seismic interpretation, salt structures, Zagros, Iran, Oil and Gas

