

3D Seismic Interpretation of Delta del Bravo Project

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The increasing demand of gas in Mexico has forced Petroleos Mexicanos to perform radical changes regarding different technical and technological issues in the exploration area. In the last years PEMEX has invested important financial resources to the acquisition, processing and interpretation of onshore, transitional and offshore 3-D seismic. Concerning to this issue the offshore 3D seismic is the one that represents the highest economical potential for PEMEX in the future.

An important exploratory challenge is the Delta del Bravo project which is located at the NE of the country at the continental platform of the Gulf of Mexico, the total area of the project is 14,800 km². This work has been developed on the 4700 km² of the 3D seismic acquired recently ("Kama 3D") on the offshore part of the Burgos Basin.

The geologic setting imaged by the seismic survey has both structural and stratigraphic complexity, including salt and/or shaly diapirs. In the domain of the minibasins, the target plays are associated to the Miocene-Pliocene strata deposited in outer shelf to basin floor environments.

This study intends to identify, evaluate and rank the prospectivity of the area, based on the analysis of the seismic character, attributes and the seismic sequences, besides the identification of the main pathways of sedimentation which may help us to understand the distribution of the already mentioned depositional systems, this in order to focus the exploration to the zones with the highest potential, using the different visualization techniques, 3D seismic interpretation and leading edge technology.
