

## **3D Seismic Survey Design: a Reasonable Solution for the Douleb Oil Field -Central of Tunisia**

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### **Abstract**

The Douleb oil field is located in central of Tunisia, 15Km to the North of Kasserine city. A 2D wide grid seismic program was acquired over the Douleb field in order to explore the concession. The 2D campaign leaves many unresolved situations. The proposed 3D seismic program reduces structural, stratigraphic and reservoir uncertainties through refined parameters. Optimizing a 3D survey design is essential to ensure the quality that meets the company objectives. This should take into account the structural, lithological and stratigraphic requirements at target level as well as budget constraints. The objective of the survey planner is to balance geophysics and economy, achieving the best possible signal at the lowest possible cost and time. Within this framework, the set of 3D seismic acquisition parameters were properly defined. All along and various attributes such as azimuth, offset and Bin Analysis were generated.