Target Exploration

Energy Geosciences Research & Development

Stratigraphy, Seismic Anomalies & Typical Fields of Sabratah Basin

Offshore Libya

Target Exploration Report Tar150

THE REPORT

The Sabratah Basin of western offshore Libya extends into onshore Tunisia is exhibiting ideal conditions for hydrocarbon generation, migration and accumulation. The lower Eocene Nummultic carbonate reservoirs hitherto formed the main producing reservoirs and exploration targets in both countries.

This study discovered that wells and outcrop controls indicates that the late Mesozoic and Cenozoic periods at the Sabratah Basin accommodated high energy carbonates, along its flank which are grading into deeper water limestone and fine clastic source rocks towards its centre.

The main structure forming mechanism is provided by the interaction of listric growth and transpressional faults with the Upper Triassic to Lower Jurassic evaporites, which are thick enough to form the salt structures and salt diapirs, such as the salt cored anticline of the Giant Bouri Oil Field.

The Report is a result of extensive of study of the tectonics history and seismic mapping of petroleum geology of Sabratah Basin. The report contains tables of formation tops, seismic sections and other data used in the study with comprehensive references list.

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