



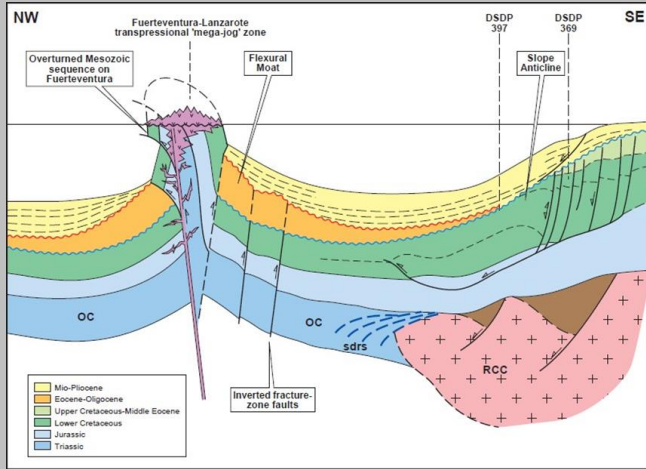
Eastern Atlantic Oceanic Crust Project

Field Study of the Mesozoic Basal Complex of Fuerteventura - a window on the petroleum potential of the deep-water southern Moroccan margin

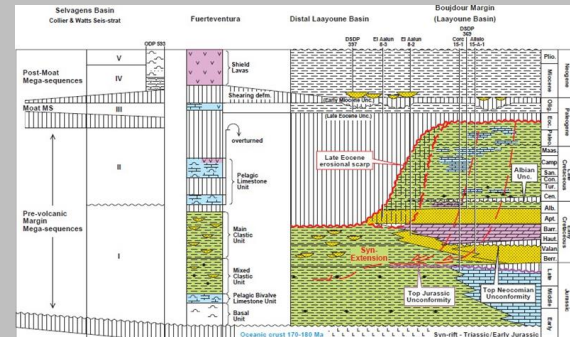
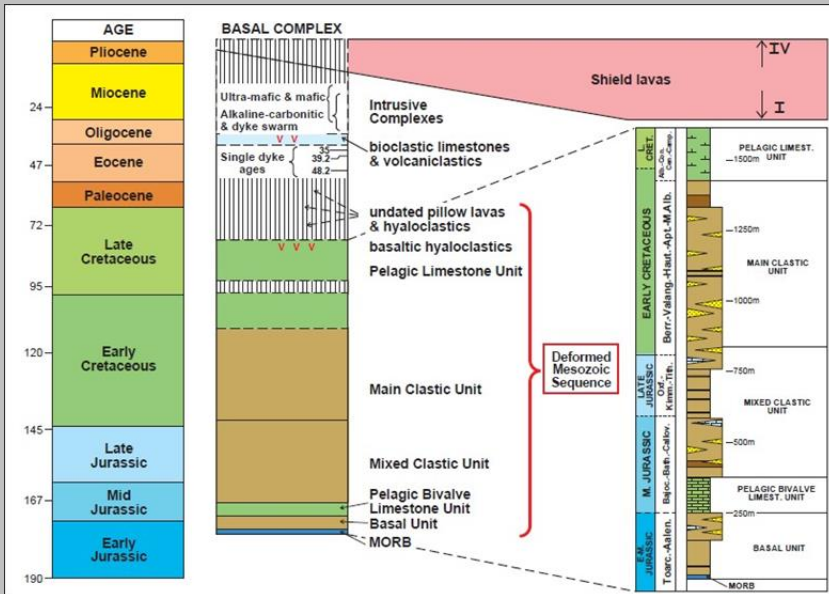
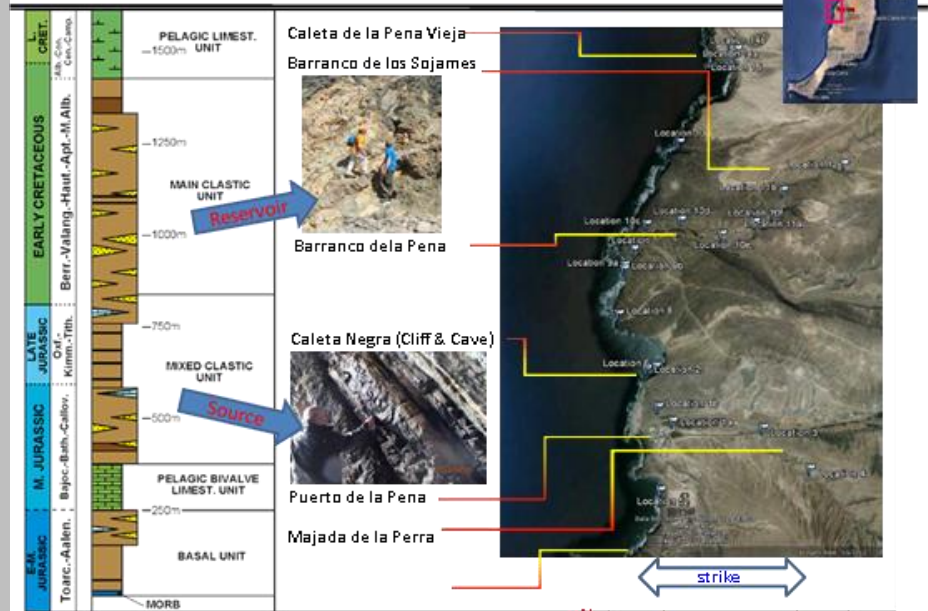
2014 Multi-Client Report Overview



Field Study of the Mesozoic Basal Complex of Fuerteventura



Outcrop Sections & Sampling





Field Study of the Mesozoic Basal Complex of Fuerteventura

This report documents a field-based study, funded by IGI and Teredo Oils Limited, of the petroleum potential of deep water deposits offshore Morocco, based on the unique small Mesozoic sedimentary outcrop of west coast Fuerteventura (Canary Islands). The cliff and near-coastal outcrops of the Fuerteventura 'Basal Complex' - basal to the overlying massive Neogene-Quaternary volcanics - provides a view of distal pelagic sedimentation on the newly formed near Toarcian oceanic crust.

Samples of this 'Basal Complex' of Fuerteventura were analysed for:

- ✓ Source rock geochemistry (kerogen amount, type and maturity),
- ✓ Apatite and zircon fission track analysis (AFTA, ZFTA),
- ✓ Thin section petrography and
- ✓ Screening biostratigraphy.



Field Study of the Mesozoic Basal Complex of Fuerteventura

Report Content:

1. Introduction
 2. Regional Structural Setting of the Canary Islands
 3. Introduction to Fuerteventura's Basal Complex
 4. Results and interpretation
 5. Reservoir lithologies
 6. Significance to regional prospectivity
 7. Summary of Petroleum Systems
- ❖ Illustrated with over 40 Figures
 - ❖ Seven regional seismic profiles
 - ❖ Analytical results presented in Appendices



Field Study of the Mesozoic Basal Complex of Fuerteventura

Appendices:

- Appendix 1 Field Guide
- Appendix 2 Field Samples by Location
- Appendix 3 TOC and RockEval (GHGeochem)
- Appendix 4 VR and Visual Kerogen
- Appendix 5 AFTA and ZFTA (Geotrack)
- Appendix 6 Reservoir Thin Sections (Blackbourn)
- Appendix 7 Geochemical Database (IGI's p:IGI format)
- Appendix 8 1D Basin Modelling (Genesis)
- Appendix 9 Annotated Seismic Montages



Field Study of the Mesozoic Basal Complex of Fuerteventura

Summary

Fuerteventura's Basal Complex outcrop provides a window on the Lower Jurassic to Late Cretaceous sediments deposited on oceanic crust in deep water offshore Morocco.

With interpretation, the section contains good sandstone reservoirs in the Main Clastic Unit of the Lower Cretaceous, and fair-good source rocks with mixed gas and oil-prone kerogen in turbidites of the late Jurassic Mixed Clastic Unit. Basin modelling, calibrated at DSDP site 397, provides insights into oil maturation and supports a petroleum charge to the Slope Anticline, either directly from a source rock or from leakage from intermediate reservoirs.



Field Study of the Mesozoic Basal Complex of Fuerteventura

Price Details & Contacts

Pricing:

- **2014 Field Study Report £22,500 (including all Appendices)**

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