A comprehensive, multi-disciplinary report providing a modern dataset for assessment of the hydrocarbon system, and combined with the historical data, enable key issues controlling the prospectivity of the Rio Muni Basin to be addressed.

A MAJOR STUDY IN ONE OF WEST AFRICA’S MOST EXCITING FRONTIER BASINS

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- Extensive analytical programme, including:-
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  - New high quality vitrinite reflectance data from 90 well and outcrop samples

- Full integration of historical geochemistry and maturity data
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- New structural model for evolution of eastern Gulf of Guinea
- Basin modelling, maturity and hydrocarbon generation history reconstruction
- Recognition of petroleum systems, play concepts and petroleum potential

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SCOPE OF STUDY
◆ Review of Regional Geology of Eastern Gulf of Guinea Atlantic Margin
◆ Tectono-stratigraphic framework refined to help define key structural episodes and associated deepwater clastic sedimentation
◆ Structural Evolution based on historical seismic data with presentation of new structural models
◆ Source Rock Evaluation of identified pre and post-salt source-prone intervals
◆ Thermal History Reconstruction and Maturity Development using AFTA / VR analysis and basin modelling for source maturity and hydrocarbon generation history
◆ Petroleum Potential and Play Analysis to predict basin-wide distribution of play fairways
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Biostratigraphical data were acquired from wells in a study by Lacustrine Basin Research, which is available as a separate report.