

geophysics

The management, processing and interpretation of gravity and magnetic data have been one of our core disciplines for the past twenty years. Seismic interpretation has become a key element of many of our non-exclusive studies.

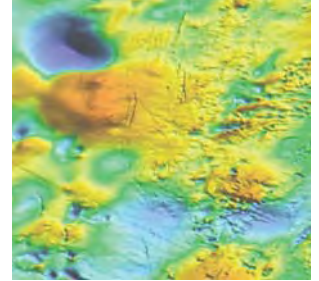
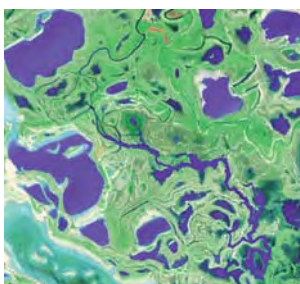
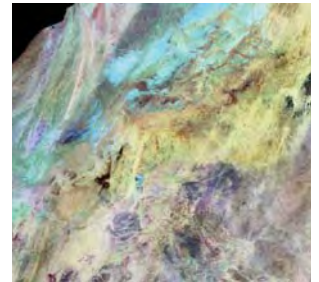


plate tectonics

With new interpretation methodologies, our team has created a Global Baseline Plate Tectonic Model which challenges and tests the current hypotheses. This forms the framework for more detailed regional scale modelling, allowing us to better understand the geological processes associated with exploration scale problems.

structural geology

With experience ranging from the mature basins of North Africa to the frontier regions of the Arctic, our team of structural geologists generate the structural framework that underpins our global range of exploration studies.



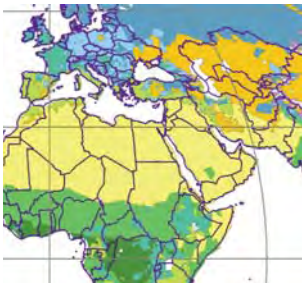
landscape analysis

Landscape analysis, which includes drainage analysis, examines the present day landscape and river networks to identify the controls on downstream sediment supply, past changes in the landscape, and thereby the evolution of source-to-sink relationships through time.

palaeogeography

New and innovative palaeogeographic methodologies are being used to build a portfolio of global and regional GIS based palaeogeographic atlases. These provide explorationists with a spatial and temporal understanding of landscape evolution (elevation and drainage). These maps also form the critical boundary conditions for climate modelling experiments.



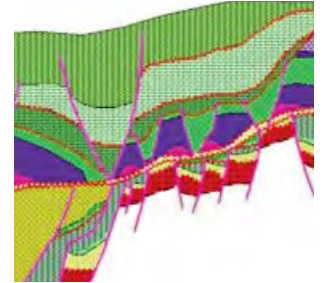


palaeoclimatology

Our recent expansion into palaeoclimatology and paleoceanography is designed to complement and enhance our core disciplines. The interpretation of palaeoclimate indicators, such as vegetation and evaporites, in conjunction with the application of coupled ocean-atmosphere models, adds to our understanding of source, reservoir and seal depositional systems.

petroleum geochemistry

The interpretation of organic geochemical data forms an integral part of our exploration studies. Source rock analysis, source-oil and oil-oil correlations, isotopic analysis and both 1D and 2D basin modelling provide insights into the petroleum systems; with biomarker data strengthening the robustness of the palaeoenvironmental aspects of our palaeogeographies.

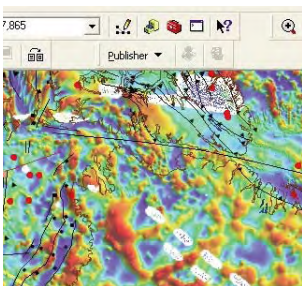
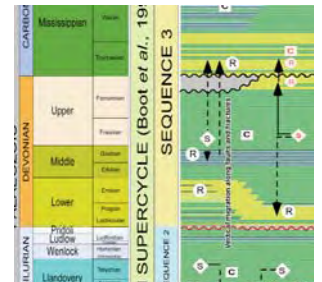


sedimentology

Our sedimentologists and sequence stratigraphers have worked on many different basins worldwide in both clastic and carbonate environments. Stratigraphic and sequence chronostratigraphic frameworks are the basis of our geodynamic and petroleum geology studies.

petroleum geology

Petroleum systems and their individual components are analysed in detail from regional to prospect scale. Integrating the results of other disciplines allows us to identify and assess the key global to local scale controls acting upon the petroleum systems of an individual sedimentary basin, whether it be in a mature or a frontier region.



GIS

GIS has underpinned all of our studies and data packages for over twelve years. The GIS group are experts in all levels of ESRI software from ArcGIS desktop through to ArcServer, which is also used as the front end to our G&M, well, field, geological and other databases.

These skills are integral components of our non-exclusive and proprietary studies

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