

Structural Geology

Geoscience Wales Ltd (GWL) has the experience and expertise to carry out field studies that range from reconnaissance mapping to detailed structural mapping at prospect scale. Field studies may involved collection of specific data or provide information for the development of analogue models.

Field Work

Fieldwork can form the basis of studies, or can be a critically useful part of broad-based studies for hydrocarbon exploration and development of production. Fieldwork can provide data that is not available from other sources and which, when integrated with other data, can provide a valuable insight for resolving issues pertaining to hydrocarbon exploration and production. Fieldwork can also provide the basis for developing analogue models of buried structures and reservoirs

Field Studies

GWL can carry out field studies tailored to suit requirements, from analysis of regional tectonism to local structures, from improving detailed definition of individual structures to analysing basin history. Studies may involve:

- mapping at a variety of levels of detail from reconnaissance to prospect scale
- collection of specific data
- providing information for development of analogue models



Studies typically involve integration of data from a variety of sources including seismic, sedimentological, biostratigraphic, high resolution aeromagnetic, remote sensing and well data.

Other field tasks may include collection of samples for sedimentological, biostratigraphical and geochemical analyses

Scope of Studies

- field mapping, particularly for structural evaluation
- definition of structural controls during sedimentation
- assessment of faults and fractures: their development history, distribution, density, connectivity and potential as fluid conduits
- identification of seismically resolvable stratigraphic units and sequence boundaries
- interpretation of seismic data and integration with field data
- satellite image interpretation and field verification of remote sensing interpretation
- analysis of basin development and deformation history
- development of a local tectonic model and extrapolation within a regional context in view of the plate tectonic history



Experience



- Qamar basin, Yemen
- Caucasus, Georgia
- Saharan Atlas, Algeria
- Palmyrids, Syria
- 'Internal zones', North Pakistan

For more information contact

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