

The Dinantian carbonate platform of Derbyshire

The Derbyshire carbonate platform developed during the rift phase of Carboniferous basin evolution. 3rd and 4th order sedimentary sequences formed under the combined influence of glacio-eustasy and rift events in an extensional tectonic setting. The seismic sequence stratigraphy of the sub-surface Dinantian can be also directly matched to facies type and geometry seen at outcrop.

The aim of this trip is to demonstrate the facies and diagenesis of 3rd and 4th order sequences in different tectonic settings including:

- Footwall and hanging wall platform margins
- Platform interior
- Intra-shelf basin
- Resedimented carbonates in surrounding basins

Other topics include:

- Contrasting karst types formed during different orders of low stands.
- Abandonment of the platform and switch to classic sedimentation.
- Dolomitisation and mineralisation.
- The Carboniferous petroleum system of central England.
- The field trip can be run over two to five days depending on clients' requirements.

Clients have used this trip for:

- Team building
- Study of asset-related analogues
- Foreign secondees
- General geological training

Northern footwall margin of the Derbyshire carbonate platform, Castleton



Oil field in platform margin carbonates



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