



# Geoscience

## Unconventionals

EPI Geoscience (incorporating 'P.D.F. Limited') has a multi-disciplinary team bringing expertise in the exploration and appraisal of 'unconventional' (continuous resource) plays, with an extensive track record of 37 plays, in 23 basins, across 9 countries worldwide (including onshore US).

Our expert team focuses on the innovative application of geological concepts and bespoke play fairway analysis techniques which have been carefully customised to understand and predict the distribution and potential of unconventional plays.

### Core services

- **Play Fairway Analysis** - our proven and tested methodology, refined specifically for unconventional evaluations, enables rapid prediction of sweet-spots and high-grading of acreage
- **Basin Modelling / Thermal Maturity** - our experts take special care to ground-truth and reality check models to construct accurate and geologically realistic burial histories and heat flows
- **Sequence Stratigraphy / Tectonostratigraphy** - world class knowledge in the construction and application of predictive stratigraphic frameworks and shale sedimentology to enable detailed basin modelling and inter / intra-basin comparison of shale plays, source rock lithology variation prediction and derisking
- **Core Analysis** - full spectrum capability, including high resolution shale/clay logging, facies analysis, XRD/SEM, petrography and fracture characterisation
- **Exploration Fieldwork** - rapidly ground-truth models and characterise play elements through rigorously exploration focused analysis, logging and sampling of field outcrops, for subsurface play prediction

**Rock Mechanics** - EPI's strategic partnership with a leading UK-based rock laboratory, provides access to leading-edge expertise in rock mechanics and the optimisation of development techniques