

Geoscience

Fold and Thrust Belts

EPI Geoscience (incorporating P.D.F. Ltd) are internationally recognised experts in the interpretation of fold and thrust belt settings, with a 23 year track record of exploration, appraisal and development success. We add value to clients and partners worldwide via risk reduction through the delivery of geoscience and excellence and technical innovation.

Our integrated geoscience team provide the full spectrum of Geoscience Services, either on an individual project basis or through our unique Outsourced E&P Department™ (OExD®) solution.

Fold & Thrust Belt Expertise

- Seismic Interpretation, Mapping & Prospecting
- Full Prospect Evaluations
- Structural Restorations/Balancing
- Change & Thermal Maturity Basin Modelling
- Sequence Stratigraphy
- Play Fairway Analysis
- Fieldwork (rigorously exploration focused)
- Evaluation of Complex Reservoirs (e.g. Fractured)
- Specialist Seismic – QI & Facies Interpretation
- Reservoir Engineering/Modelling, Static/Dynamic
- Seismic Acquisition Design Optimisation
- Seismic Processing QC

>65% exploration well success rate in fold & thrust belt projects around the world

Global Track Record

EPI Geoscience has a 23 year/+150 project track record specifically in fold and thrust belt settings for clients around the world, from private & junior listed companies to Majors. Our team of experts have extensive experience in fold and thrust belts, including the South American Andes; the Alps; Pyrenees; Carpathians; Balkanides & Dinarides of Central & Eastern Europe; the Zagros of Iran and the Atlas mountains of North Africa.



Integrated Approach Critical to Success

Exploration Fieldwork for Enhanced Interpretation

We recommend rigorously focused and targeted exploration fieldwork to cost effectively and efficiently de-risk critical play elements (charge, reservoir, seal, traps) and tie surface geology to seismic which enhances ability to interpret seismic data.

Play Fairway Analysis

EPI utilise play fairway techniques, integrated with predictive chrono- and sequence stratigraphic frameworks & careful structural analysis to identify and de-risk play fairways and rigorously focus exploration effort towards play element risk reduction.

Seismic Interpretation & Prospect Mapping

Utilising the EPI team's long and successful experience in fold and thrust belts around the globe and leveraging leading edge software, we incorporate all available outcrop and subsurface geological and geophysical data to develop and validate data-driven, constrained seismic interpretations.

Reservoir Modelling

Our Geoscience team integrate their experience of evaluating complex reservoirs (e.g. fractured, low poro-perm) with detailed structural reconstructions to develop more accurate models within structurally and stratigraphically complex prospects and fields.

Case Study: Carpathian Fold & Thrust Belt

EPI Geoscience have more than 20 years experience successfully delivering exploration, appraisal and development projects across the highly complex Carpathian fold and thrust belt of Central & Eastern Europe (6th largest fold-thrust belt hydrocarbon province globally). During this time we have operated 13 concessions on behalf of our Clients over the full asset lifecycle, from data collection, exploration fieldwork, seismic interpretation and prospect generation, to drilling discoveries (4 in the Carpathians directly attributable to the EPI team's work) and appraisal.