

# Applied Geophysical Solutions™

EPI Applied Geophysical Solutions™ specialise in reprocessing difficult datasets and producing robust survey design.

## Why use the EPI Group?

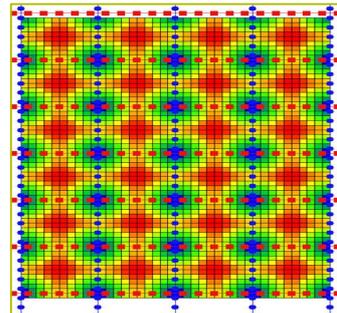
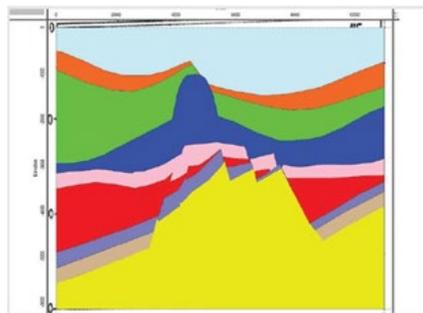
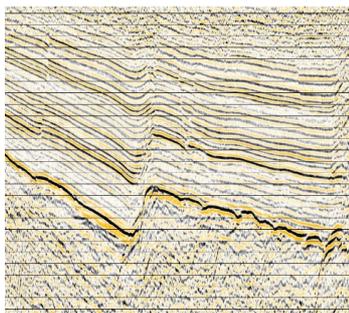
- We ensure the subsurface response to the geophysical methodology supports your imaging requirements.
- Our solutions have a proper and full integration between:
  - Asset required derisking method e.g. seismic attribute/AVO sensitivities.
  - The envisaged data processing and imaging sequences required.
  - Acquisition parameters.
  - Operational Feasibility.
- We assure our solutions are not only geophysically correct, but offer an excellent level of interpretability. We work hand in hand with our Geoscience Division to make sure our data output can be utilised and the data attributes can be captured to further the derisking strategy.
- We make sure your data will not only delineate your targets, but also afford appropriate derisking of the anticipated drilling and development operations.

We offer advice, investigations and reports on many aspects of imagine related services

## Survey Design

The EPI design group use subsurface de-risking methodology incorporating both proprietary techniques and fundamental methods developed by Vermeer, Cordsen and Galbraith to produce survey designs and parameters that don't just focus on the imaging but provide a robust solution. We undertake a full suite of modelling, utilising the following procedures into our design flow:

- 3D Layout and Geometry Diagnostics (Schlumberger OMNI software).
- 3D Geological Modelling and Illumination Study (OMNI Workshop).
- 2D Elastic Wave Equation Modelling (OMNI Workshop).
- Wedge Modelling (Hampson-Russell).
- Footprint Analysis (OMNI Workshop).
- Optimum Shooting Plan and Cost Analysis (SurvOpt Acquisition Planning Tool).



Example images taken during the survey design process



For more information visit  
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The Upstream Consultancy

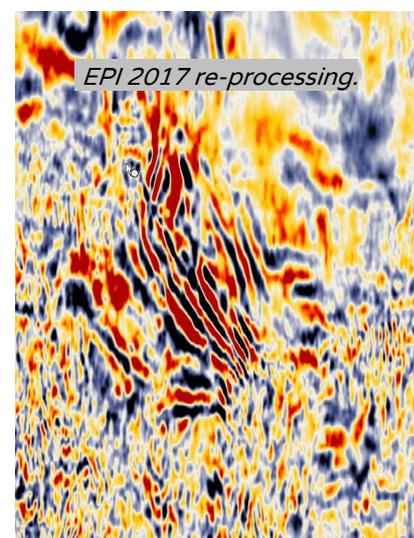
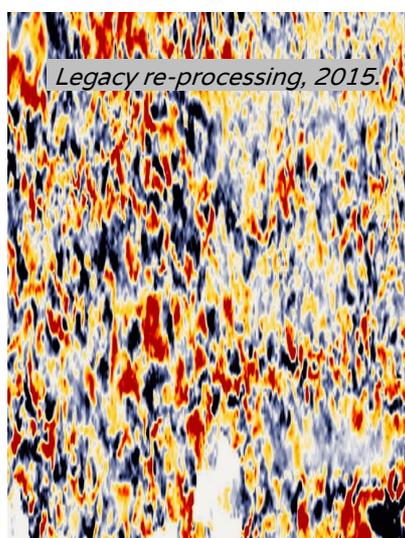
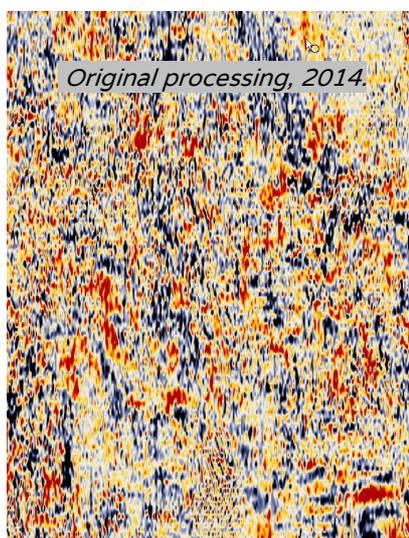
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## Enhancing the Processed Image

EPI's bespoke seismic data re-processing services

### Data Processing

- EPI offer bespoke testing and sequence development, along with small volume production processing - (using Shearwater Reveal & GLOBE Claritas software) - providing a truly individual processing service.
- For larger surveys feasibility testing can be run in-house to establish optimal parameters prior to passing the full dataset to a partner company to run the main production processing. EPI's partners also use Reveal, ensuring quick and seamless transition from testing to production.
- All EPI geophysicists have a minimum of 20 years' experience, handling the imaging from start to finish.
- Our pre-processing includes advanced statics, denoise and de-multiple techniques such as 3DSRME and SWME.
- Our Time and Depth imaging solutions include Kirchhoff, Beam, Common Reflection Angle and Reverse Time Migration.



*Example time-slice of legacy 3D data recently re-processed by EPI using Shearwater Reveal (OpenCPS) software. (Permission to show these data was kindly provided by Egdon Resources U.K. Limited, United Oil and Gas Limited, Aurora Petroleum (UK) Limited, and Corfe Energy Limited.)*

### Tendering and Contract Development

- Our services include market evaluation and expressions of interest (EOIs).
- We provide full tendering, along with local & national law compliance, following best industry practises.
- We supply a suite of documentation which is fully flexible to ensure your requirements are covered.

Contact the Applied Geophysical Solutions™ team on [expertise@epigroup.com](mailto:expertise@epigroup.com)



**EPI**  
Group

For more information visit  
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