

**Quality Data for Quality QI**

MCR has exclusive rights to license DUG’s comprehensive multi-client petrophysics, rock physics & stochastic modelling studies

A total of 8 studies incorporating 179 wells are available across the major hydrocarbon provinces of Australia’s North West Shelf

Including onshore Perth & Southern Carnarvon basin studies

Critical input data for a comprehensive quantitative interpretation work flow

Study	Description
Vulcan Sub-Basin	Integrated data and interpretation study of 13 wells
Central Browse Basin	Integrated data and interpretation study of 33 wells
Southern Browse Basin	Integrated data and interpretation study of 14 wells
Offshore Canning Basin	Integrated data and interpretation study of 24 wells (Roebuck, Beagle, Fitzroy & Oobagooma Sub Basins)
Monodon	Integrated data and interpretation study of 46 wells (Barrow & Damper Sub Basins)
Exmouth Plateau	Integrated data and interpretation study of 13 wells
Onshore Perth Basin	Integrated data and interpretation study of 17 wells
Onshore Southern Carnarvon Basin	Integrated data and interpretation study of 19 wells

## Petrophysics

Comprehensive petrophysical interpretation, lithology evaluation, reservoir properties, reservoir quality & fluid content. Integrated wireline, non-wireline logs, lithological descriptions, core analysis, petrophysical studies and well test information.

## Rock Physics

Statistical rock physics models, correlated with seismic responses influenced by elastic rock properties, to discriminate lithology variations, porosity, pore-fluid type, water saturation and pore pressure. The statistical rock physics model can then be used in quantitative seismic interpretation to extract geological information from the seismic data.

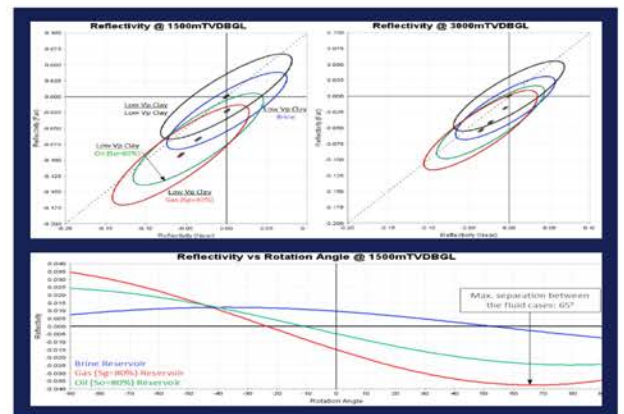
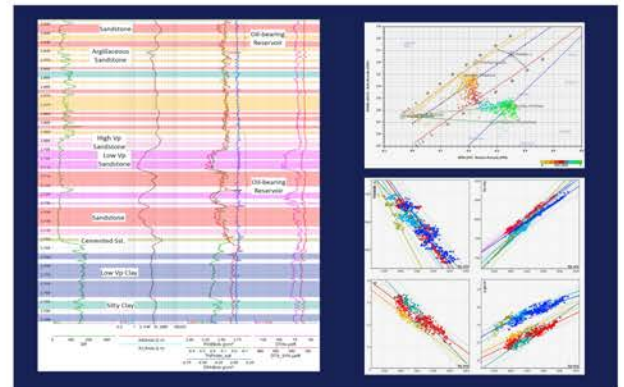
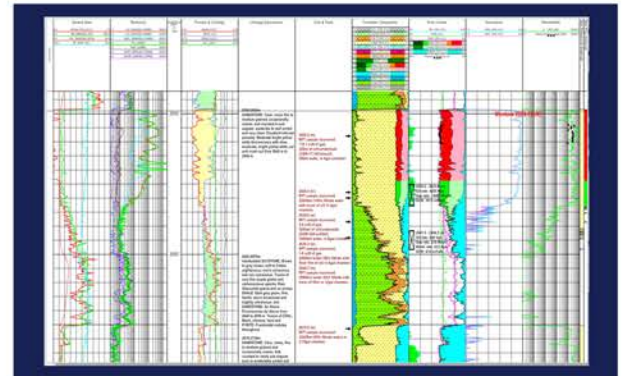
## Stochastic Forward Modelling

Can answer questions such as:

- ▶ What type of AVA and amplitude response should I expect?
- ▶ Does AVA aid in the discrimination and prediction of fluid and lithology?
- ▶ What amplitude responses do we expect to see on full stack data?
- ▶ What is the range (uncertainty) in the expected response?
- ▶ Given the observed inherent scatter in end-member rock properties, can we discriminate between different lithology and fluid combinations in rock property space?
- ▶ How do all of the above change with depth, fluid and lithological variations?

## Deliverables

- ▶ Full petrophysical interpretations
- ▶ Data collation & conditioning
- ▶ Basic logs, petrophysics interpreted logs, final elastic logs, las files & WCR's
- ▶ Rock physics study & stochastic modelling
- ▶ Full documentation



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