DUG Petrophysics, Rock Physics & Stochastic Modelling Studies

MCR Multi-Client Resources

VULCAN SUB-BASIN PHASE 2 MULTI-CLIENT STUDY

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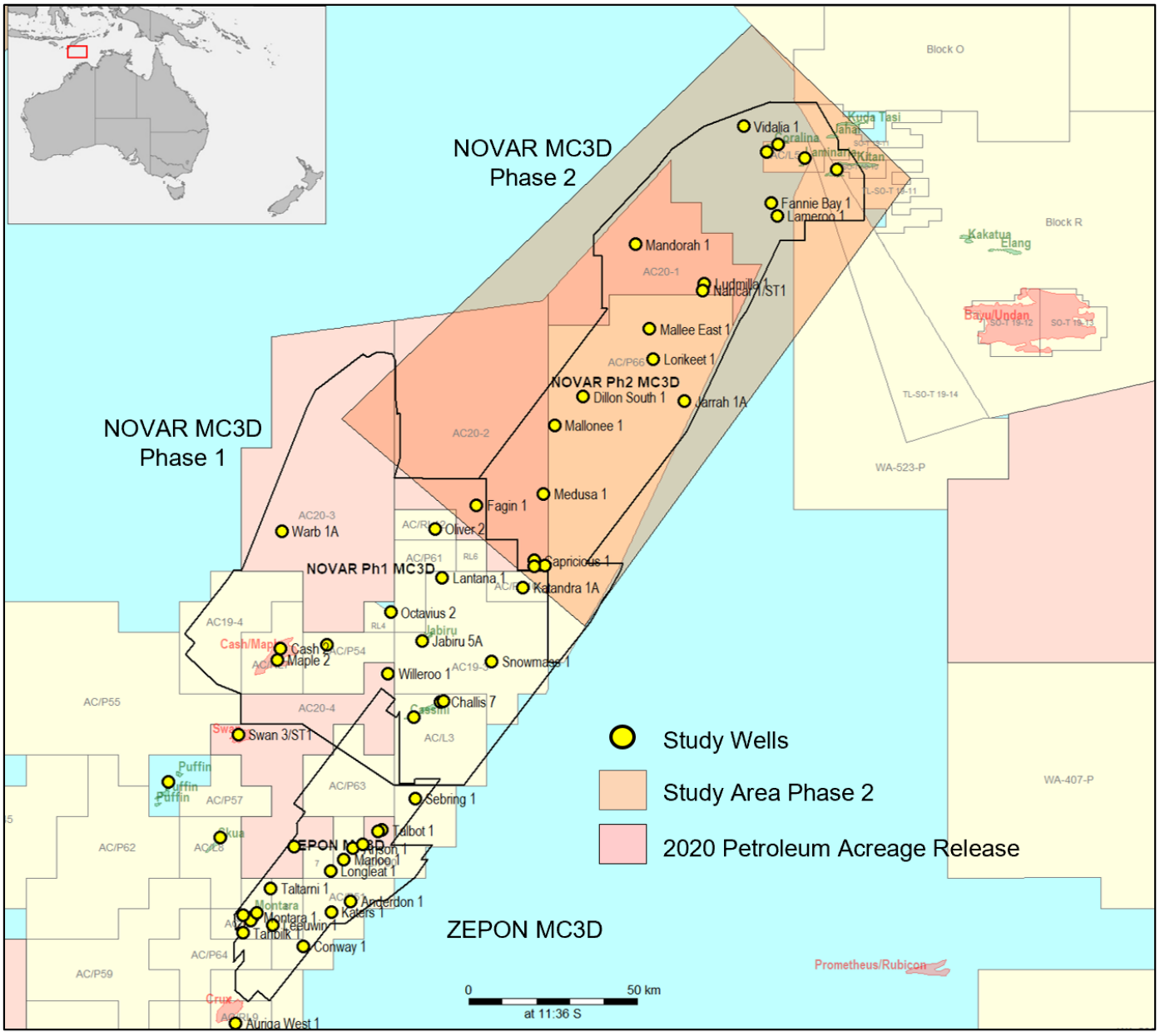
A petrophysics, rock physics & stochastic modelling study of 20 wells



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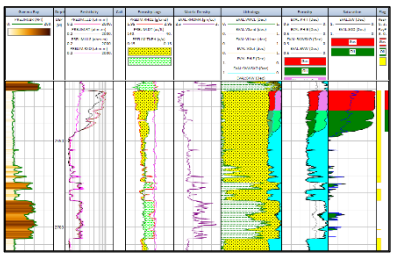
Data and Interpretation Study of 20 Wells

Wells	Alaria-1, Buffalo-2, Capricious-1, Corallina-1, Dillon South-1, Fagin-1, Fannie Bay-1, Jarrah-1A, Lameroo-1, Laminaria-1, Lorikeet-1, Ludmilla-1, Mallee East-1, Mallonee-1, Mandorah-1, Medusa-1, Nancar-1/ST1, Tancred-1, Turnstone-1, Vidalia-1
Study Includes	Petrophysics report, raw and final LAS including petro. evaluated & final elastic curves Brine substituted curves for all main elastic parameters (Sonic, Shear & Density) Rock Physics & Stochastic Modelling report including reservoir and non-reservoir trends and all possible seismic responses over the studied area Full documentation

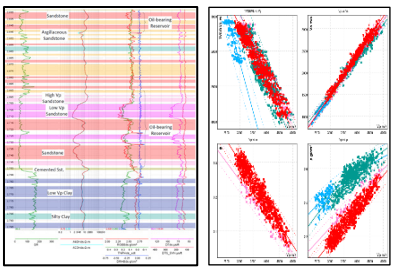
Petrophysics

Comprehensive petrophysical interpretation including porosity, saturation, and lithological evaluation by integrating all available data including wireline & LWD logs. Full composite interpretation plots accompanied with lithological descriptions, core analysis and well test information.



Rock Physics

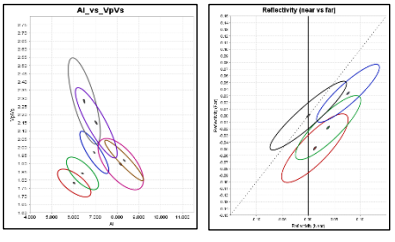
Statistical rock physics trends classified based on the lithology, elastic rock properties (Vp, Vs and Density) or structural geology of the area (if required). The extracted rock physics trends can be used in quantitative seismic interpretation to extract geological information from the seismic data.



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 the above change with depth, fluid and lithological variations?



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