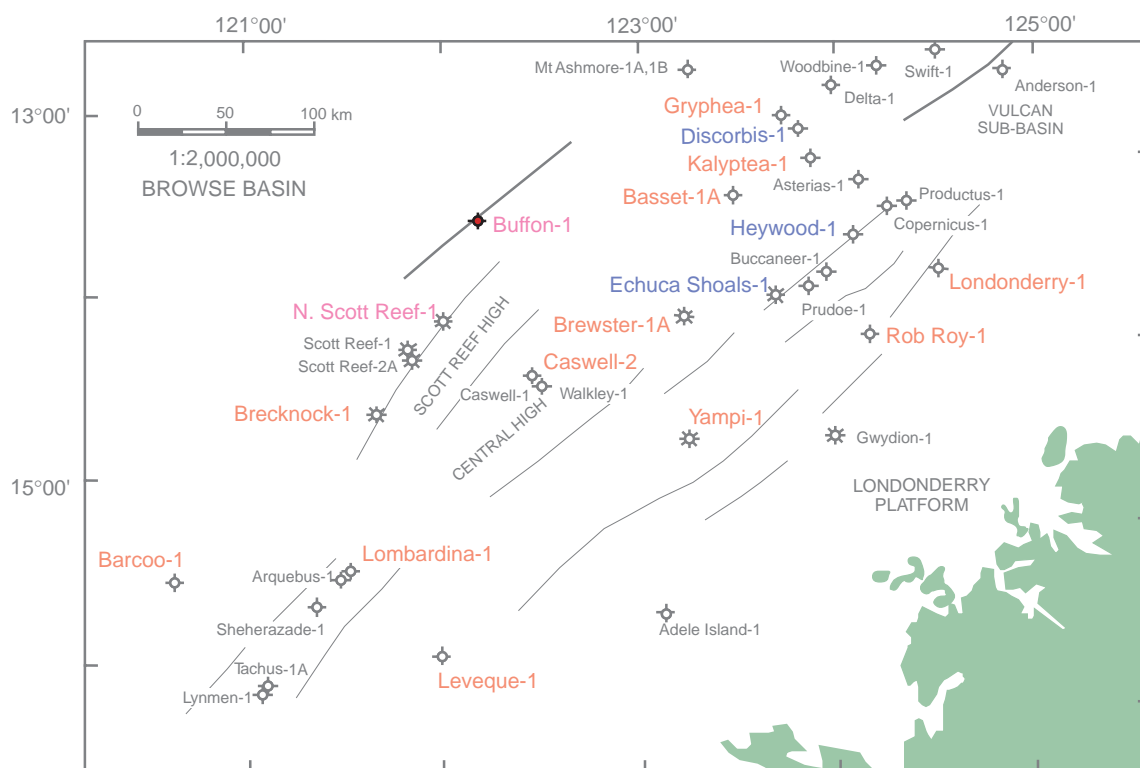




BROWSE BASIN

THERMAL HISTORY RECONSTRUCTION IN SEVENTEEN WELLS USING APATITE FISSION TRACK ANALYSIS AND VITRINITE REFLECTANCE



This report was designed to identify, characterise and quantify any episodes of elevated paleotemperatures which have affected the region, and to provide a regional thermal history framework for understanding the history of hydrocarbon generation in the Browse Basin.

The study has revealed major paleo-thermal effects, definition of which is crucial to understanding the history of hydrocarbon generation in the Browse Basin. The report provides a consistent description of maturity levels across the region, and their variation in depth and time.

Report contains essential information for accurate assessment of hydrocarbon prospectivity

Results include:

- Local and pervasive Tertiary heating in wells located in platform settings, probably reflecting passage of hot fluids. This may have produced enhanced maturity levels, particularly to the east. Hot fluid movements may be linked to hydrocarbon migration into platform settings (c.f. Gwydion, Cornea).
- Mesozoic heating, possibly due to a combination of elevated heat flow and some degree of deeper burial. This may have produced a major phase of early hydrocarbon generation from pre-Jurassic source rocks in many regions of the Browse Basin.
- Most open-file VR data do not provide a reliable assessment of true maturity levels. New VR data obtained for this report, combined with evidence from AFTA, provide a more consistent framework for understanding the history of hydrocarbon generation.

Price: A\$ 25,600. For further details, contact:

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