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Brief Summary

The Northern Carnarvon basin is a passive margin, extending from shallow platform areas adjacent the coast to central Mesozoic depocenters with over 15km of sediments. Fault patterns across the different terrains vary, however dominantly exhibit a NE/SW orientation following the regional trend of the North West Shelf. North-South trending faults and structures are also evident in select areas of the basin, notably areas without significant Mesozoic cover obscuring the older Paleozoic sedimentary sequences. This research focuses on the evolution of the Jurassic rift system of the Northern Carnarvon basin, including the temporal and spatial relationship with the older Paleozoic faulting. Unravelling this complex story will add to the knowledge of the evolution of the North West Shelf, which is an important hydrocarbon provenance of Western Australia.

Education: BSc (honours) Applied Geology, Curtin University

Research interests: Structural, petroleum geology, basin analysis

Thesis title: Structural Evolution of the Dampier Sub-basin

Supervisors: Prof. Chris Elders, Dr. Jane Cunneen

Conferences: 2015 ASEG/PESA International Conference and Exhibition (Perth) – 2016 The Roberts Conference: Passive Margins Conference (Royal Holloway University (London)).

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