

Sequence Stratigraphy & Sedimentology of the highly prospective Early Permian oil and gas play in the North Perth Basin 6-8 September 2019

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The Purpose of the Field Excursion is to examine the beautifully exposed, regressive to transgressive, Early Permian sequence along the Irwin River in the Coalseam Conservation Park.

There is renewed interest in the long overlooked prospectivity of the Early Permian play in the North Perth Basin, with recent exciting oil and gas discoveries at Corybas, Waitsia and Xanadu.

The excursion will focus on sedimentology and ichnofacies within a predictive sequence stratigraphic context and how these relate to depositional environment, lateral facies changes and changes in relative sea-level.

Well logs, core and seismic examples will be used to compare the outcrop to the prospective play in the basin, providing attendees the opportunity to better understand this actively explored depositional system.

Please register your interest as soon as possible to secure accommodation with a payment of \$1050 by 31st May 2019, as the excursion falls in the peak of the popular and spectacular WA wildflower season. There will be opportunities to look at wildflowers.

Accommodation is twin share or single with a supplement of \$165. Registration will be refunded if the trip is cancelled.

Late registrations are feasible only if there are at least 12 persons registered and paid for by that date – up to 31 participants can be accommodated.

Logistics: 3-day (2 night) field excursion by coach starting and returning to the Crown



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Regressive parasequence sets.

Perth and staying at the Mingenew Hotel 400km North of Perth. Included is transport, budget accommodation, entry to Nambung National Park and all set meals.

Itinerary:

Friday 6th: Depart Crown Perth at 9:00am stopping to see the Pinnacles in Nambung National Park and after lunch at Cervantes, inspect modern stromatolites at Lake Thetis before driving to the Mingenew Hotel in time for drinks and a BBQ dinner.

Saturday 7th: Spend all day at the Coalseam Conservation Park and study the excellent Early Permian sections on the Irwin River before returning to Mingenew for dinner.

Sunday 8th: Return to Crown Perth by 5pm stopping to look at Pleistocene coral reefs in Dongara & wildflowers in Badgingarra National Park with lunch at the Badgingarra Tavern.

Dress for the outcrops: Sturdy, hard toed walking boots are essential, long sleeve shirts, hats and sun protection are advised.

It is spring, so days are warm and sunny with occasional showers, while nights get chilly.

A small backpack, water bottle and fly net are useful. Remember to take enough water to drink with you when walking.

Hammers, chisels and fossicking are not allowed in the Coalseam Conservation Park, but cameras and hand lenses are.



Shallow dipping outcrops to inspect.



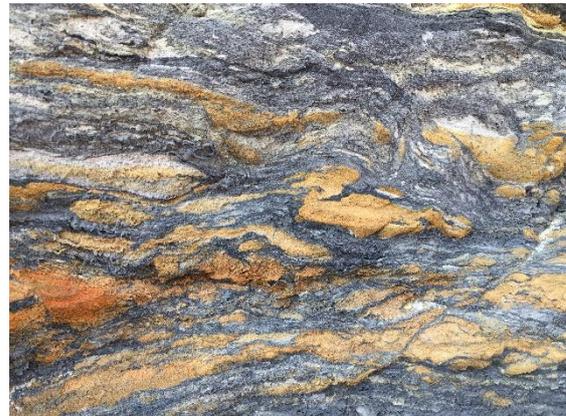
Coal measures & fluvial sandstone reservoirs.



Ripples to interpret.



Ichnofacies to decipher.



Soft sediment deformation to unravel.



Glacial dropstones to admire.

Safety at the outcrop: The two river sections are 3.5 and 0.5 km walks on coarse river gravel. If unsure of your ability on rough ground, wear ankle and knee supports and use hiking sticks. At all times be careful of where you are walking and standing.



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