AVO data is now available in Area W06-11 of the 2006 Acreage Release

As part of the 2006 Acreage Release Geoscience Australia has reprocessed parts of 2 lines from the 2D Zeus Seismic Survey (shown on Figure 1) collected over the Exmouth Plateau in 1997 and available through the GA Data Repository.

The Exmouth Plateau forms part of the rifted North West Margin of Australia. Main unconformities within the section are at Base Cretaceous, upper Callovian and Early Jurassic Pleinsbachian levels (Figure 2). There are thick Triassic sediments on the Exmouth Plateau overlain by Jurassic and younger sediments. Potential petroleum reservoirs are present from the Triassic to the Paleogene (Williamson and Bradshaw, in press). Lines B97-27M shows AVO anomalies which can be seen in Figures 3, 4, 5 and 6 and may be worthy of further analysis by interested companies.

The geological setting of strata possibly relating to the shallower AVO anomaly is above the Callovian unconformity. It is in a section where reservoir sands of Oxfordian shore face facies contain gas in the Jansz 1 well 50 km to the northeast (Figure 2; Jenkins and others, 2003). The shallower of the two possible AVO anomalies occurs at far offsets as a strong flat event cutting across strata. The deeper of the two possible AVO anomalies dims out at far offsets but has higher amplitudes at near offsets. The seismic expressions of the AVO anomalies suggest a structural closure. A stratigraphic column indicating the sections where the possible AVO features could occur is shown as Figure 2.

The geological section possibly relating to the deeper of the two AVO anomalies (Figures 3, 4, 5 and 6) is older.

Areas W06-11
Central Exmouth Plateau
Bids close 9th November 2006

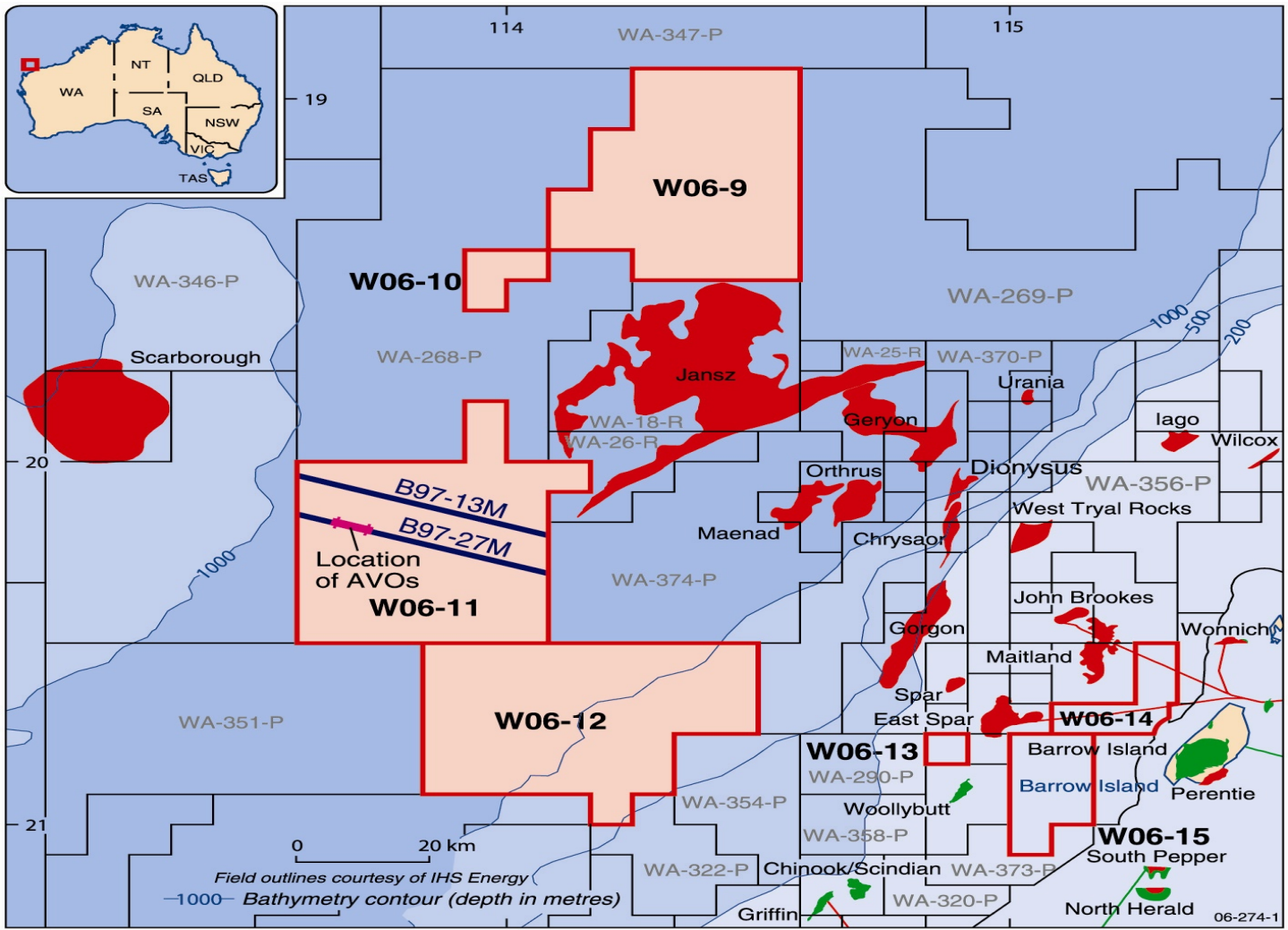


Fig 2

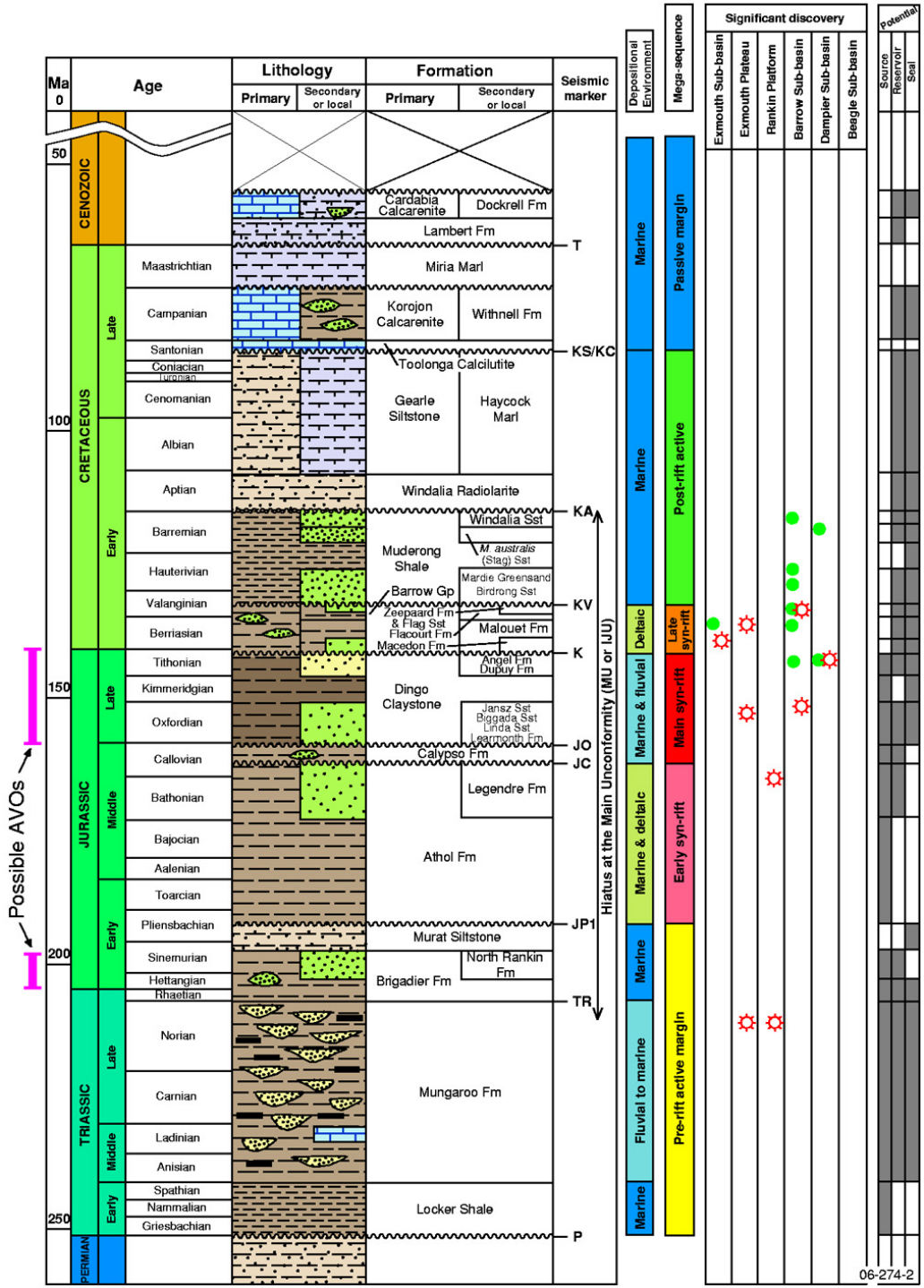

Ma
Age
Lithology
Primary
Secondary or local
Formation
Primary
Secondary or local
Seismic marker
Depositional Environment
Mega-sequence
Significant discovery
Exmouth Sub-basin
Exmouth Plateau
Rankin Platform
Barrow Sub-basin
Dampier Sub-basin
Beagle Sub-basin
Potential
Source
Reservoir
Seal
CENOZOIC
CRETACEOUS
JURASSIC
TRIASSIC
PERMIAN
Late
Early
Middle
Maastrichtian
Campanian
Santonian
Coniacian
Turonian
Cenomanian
Albian
Aptian
Barremian
Hauterivian
Valanginian
Berriasian
Tithonian
Kimmeridgian
Oxfordian
Callovian
Bathonian
Bajocian
Aalenian
Toarcian
Pliensbachian
Sinemurian
Hettangian
Rhaetian
Norian
Carnian
Ladinian
Anisian
Spathian
Nammalian
Griesbachian
Cardabia Calcarenite
Dockrell Fm
Lambert Fm
Miria Marl
Korojon Calcarenite
Withnell Fm
Toolonga Calcilutite
Gearle Siltstone
Haycock Marl
Windalia Radiolarite
Windalia Sst
M. australis (Stag) Sst
Muderong Shale
Mardie Greensand
Birdrong Sst
Barrow Gp
Zeepaard Fm & Flag Sst
Flacourt Fm
Malouet Fm
Macedon Fm
Angel Fm
Dupuy Fm
Dingo Claystone
Jansz Sst
Biggada Sst
Linda Sst
Learmonth Fm
Calypso Fm
Legendre Fm
Athol Fm
Murat Siltstone
North Rankin Fm
Brigadier Fm
Mungaroo Fm
Locker Shale
T
KS/KC
KA
KV
K
JO
JC
JP1
TR
P
Hiatus at the Main Unconformity (MU or IJU)
Possible AVOs
Marine
Deltaic
Marine & fluvial
Marine & deltaic
Marine
Fluvial to marine
Marine
Passive margin
Post-rift active
Late syn-rift
Main syn-rift
Early syn-rift
Pre-rift active margin
06-274-2

Fig 3

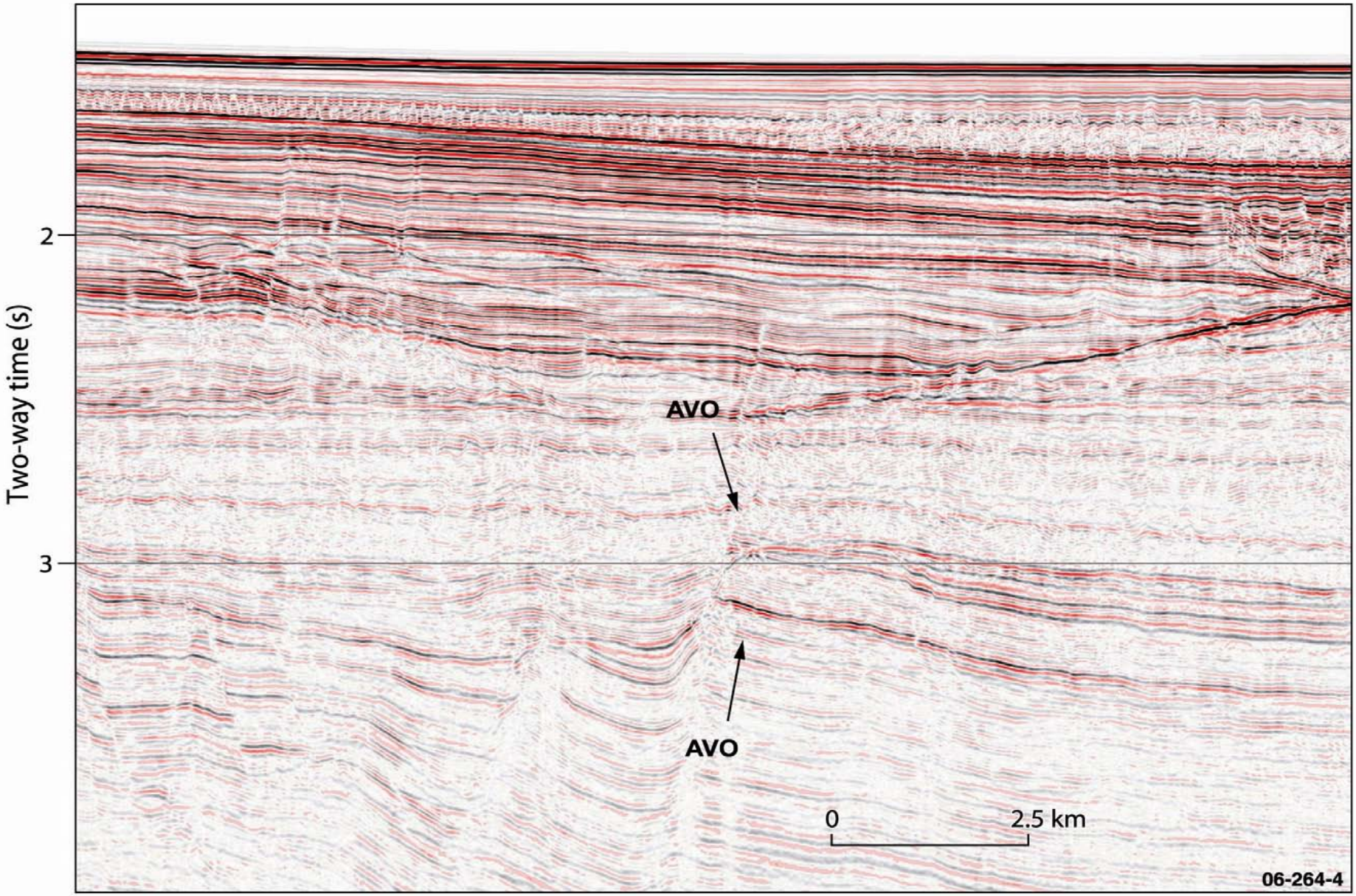


Fig 4

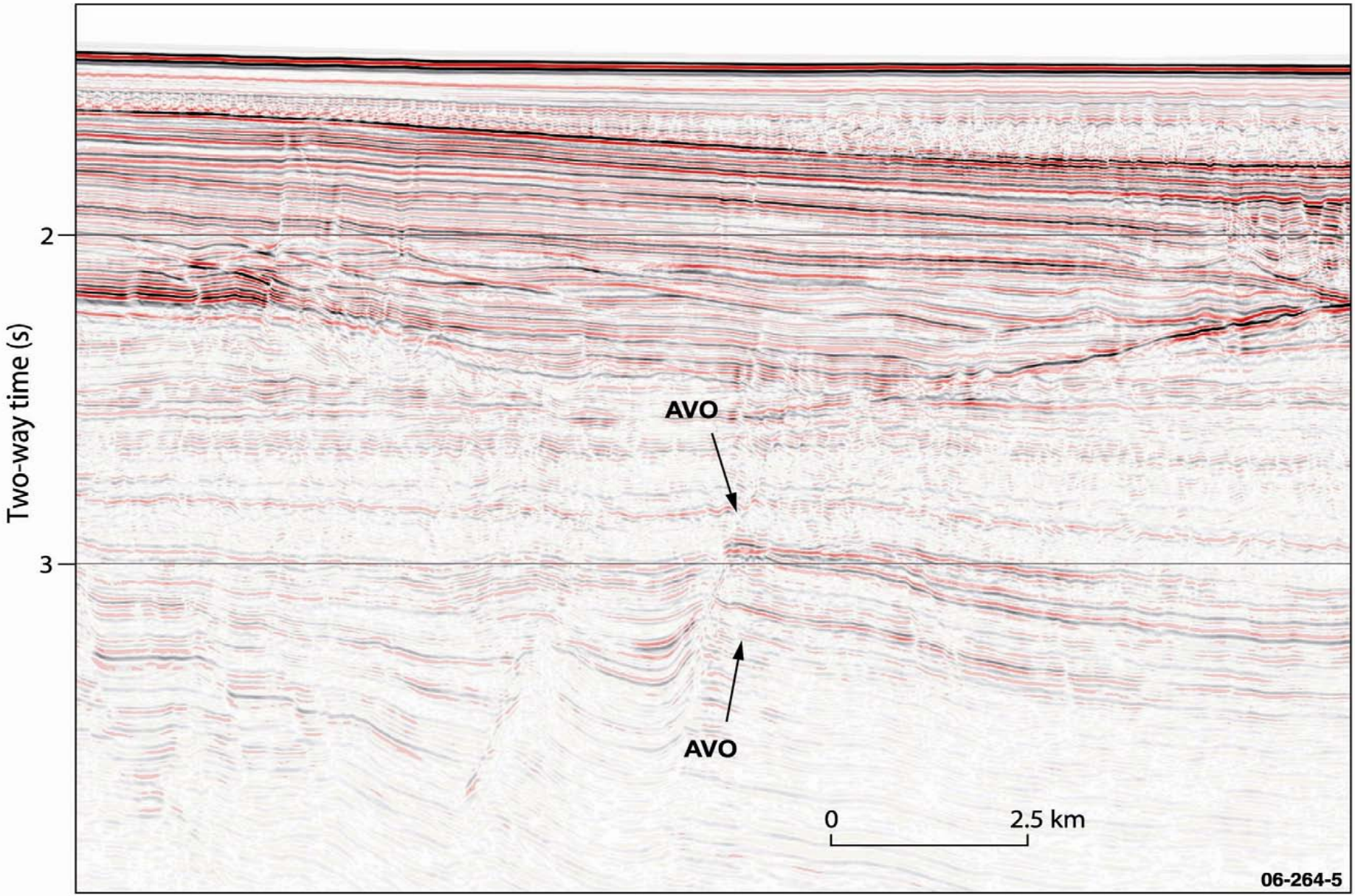


Fig 5

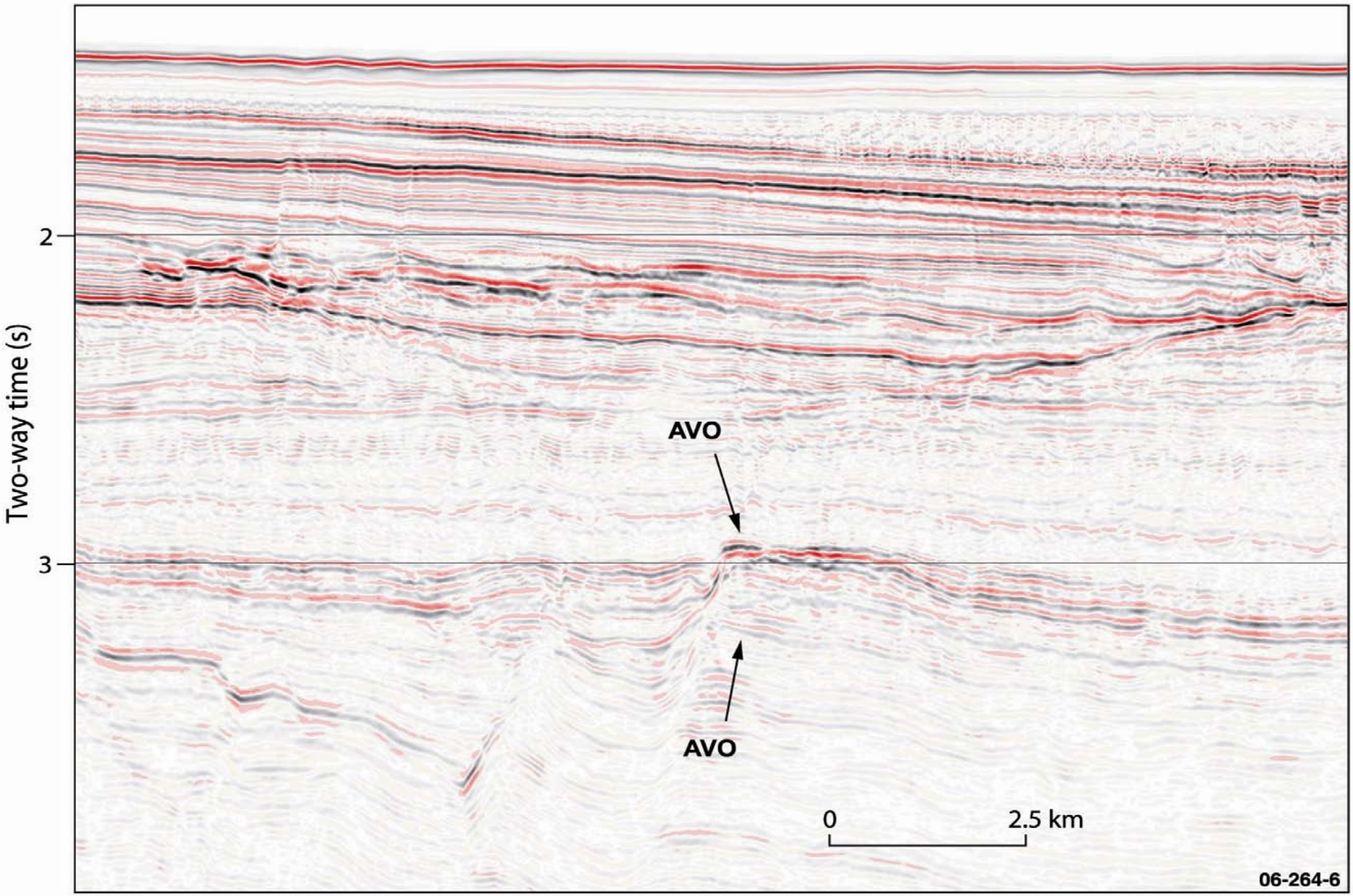
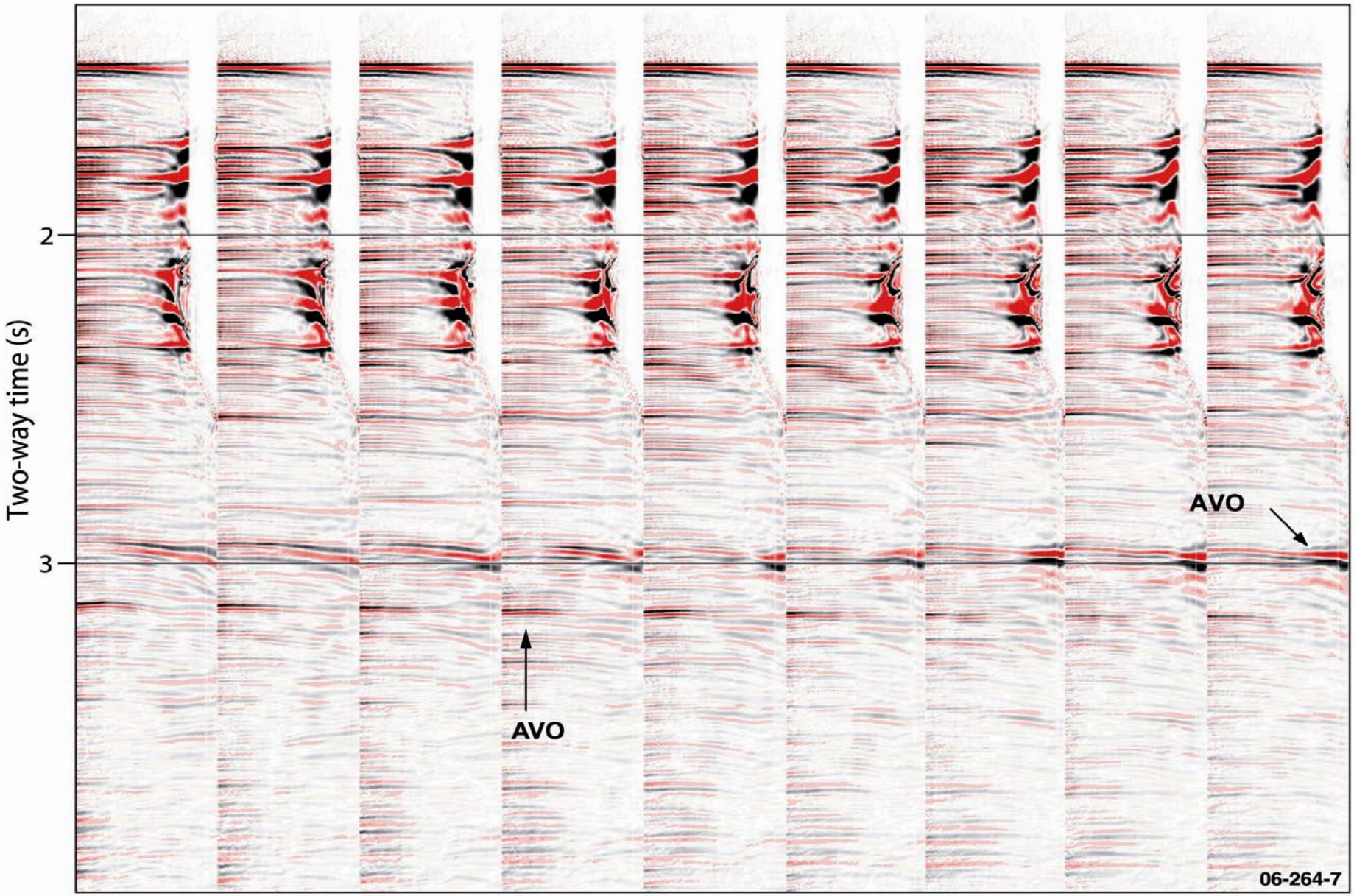


Fig 6



Data is now available through the Geoscience Australia Data Repository

- near, middle and far angle stacks
- CMP gathers with 4th Order NMO and Eta corrections
- Velocities and Navigation files

Geoscience Australia Data Repository
Phone +61 2 6249 9222
E-mail ausgeodata@ga.gov.au