



Regional Geology of the Bass Basin

Figure captions

- Figure 1** Regional setting of the Bass Basin showing basin boundaries, structural elements, petroleum wells, fields, infrastructure and location of seismic figures shown in Figures 3, 4 and 5. (SRF-121351-1)
- Figure 2** Stratigraphy and hydrocarbon discoveries of the Bass Basin. Geologic Time Scale after Ogg et al (2016). (SRF-121351-2)
- Figure 3** Seismic line 90-27 across the Cape Wickham Sub-basin. Interpretation by Geoscience Australia. Location of the seismic section is shown in Figure 1. (SRF-121351-3)
- Figure 4** Seismic line 82-302 across the Cape Wickham and Durroon sub-basins. Interpretation by Geoscience Australia. Location of the seismic section is shown in Figure 1. (SRF-121351-4)
- Figure 5** Geological cross-section across the central Cape Wickham Sub-basin showing the syn-tectonic nature of the Durroon and Bass megasequences, and the overlying post-rift successions of the Aroo, Flinders and Torquay sequences. Key exploration targets are within the Bass and Aroo sequences; the Flinders sequence is the regional seal. The distribution of volcanic and intrusive igneous rocks is indicated by the v symbols (from Blevin et al, 2003). (SRF-121351-8)
- Figure 6** Generalised palaeogeographic maps showing the extents of a) the Koorkah lake in the Paleocene and b) the Toolka Lake in the early Eocene (after Blevin et al, 2005). (SRF-121351-7)
- Figure 7** Seismic data coverage for the Bass Basin. (SRF-121351-10)
- Figure 8** Petroleum permits and operators in the Bass Basin. (SRF-121351-5)
- Figure 9** Well composite showing basin phases, sequences, well logs (GR and DT) and hydrocarbon shows in Pelican 5, illustrating key oil and gas reservoir horizons in the Pelican Trough (after Blevin et al, 2005). (SRF-121351-9)
- Figure 10** Marine reserves, marine parks, multiple use zones, ecological features in the Bass Basin. (SRF-121351-6)