A closed area along the updip culmination of the same block has now been mapped (Lachlan Structure; Encl 2). Durroon Mudstones overly Cenomanian sandstones and lavas on top of the Otway Megasequence, juxtaposed against the downfaulted younger sediments of the Durroon Megasequence of the Boobyalla Sub-Basin.

(4) Subunconformity truncation traps may exist below the Durroon Megasequence Boundary. There are numerous examples within the Boobyalla Sub-Basin of these.

(5) Lesser amounts of petroleum have been discovered on the downthrown side of normal faults. The zones of reverse drag may form traps against the fault face.

(6) Trap door structures are mapped at the margins of the basin. They are not regarded as potential traps. The margins have a long history of continued uplift and erosion and there is considerable opportunity for hydrocarbons to escape.

(7) The Boobyalla Sub-Basin is a frontier basin, without well control to assess any of the geological parameters that help to evaluate these areas. The presence of so many structures common to producing extensional basins of the world must recommend it as an exploration area.

10.0 RECOMMENDATIONS

More seismic data across the rollover structures adjacent to the Bassian Rise is vital. The best of these - Kingsbridge, perhaps - offers a sufficient thickness of Durroon Megasequence (2250 m) for reservoirs of both nonmarine and marine rocks to be present. This structure, together with Richmond, is unlikely to overlie mature source rocks and will depend on migration of hydrocarbons from the source areas to charge the reservoirs.