

A B S T R A C T

Esso Exploration and Production Australia, Inc. conducted the 069B Seismic and Magnetic Survey in the offshore portion of the Otway Basin between September 26 and October 1, 1969. A total of 206 line miles of 12 fold CDP data were completed with the "Aquapulse" system in areas of primary interest in South Australia and Victoria permits. The digitally recorded data were processed and interpreted in Sydney, and the results have been integrated with data from previous surveys.

The quality of the seismic sections from this survey is adequate to make reliable interpretations in the three prospective areas covered. A noticeable improvement in data quality is observed over previous surveys. One prospect has been confirmed while the other two areas are so complexly faulted that structural closures are small and usually demonstrate unfavourable growth history for hydrocarbon accumulation.