

SECTION ISUMMARY AND CONCLUSIONS

Thirty five miles of common depth point (CDP) detail reflection recordings and 108 miles of reconnaissance single channel data were obtained within the non-subsidy area of the Gippsland Basin during the Tasman - Bass Strait Marine Profiler and Magnetic Survey. These data were recorded on August 29th and 30th, 1969 by Teledyne Exploration Company under contract to Magellan Petroleum Australia Limited. The CDP data were digitally processed by Geophysical Service International and all of the data interpreted by Magellan's geophysical staff.

The purpose of the work was to define a structural lead mapped in the East Gippsland Seismic Survey, June, 1969, and to extend knowledge of section thickness and basin configuration at the eastern boundary of the Gippsland Basin. The first objective was to be accomplished by shooting and processing three detail air-gun lines and the second by several reconnaissance sparker profiles.

Definition of the structural lead (Feature IV) was accomplished although the sought closed anticline could not be confirmed. Instead a possible faulted nose having about 100 feet of closure over an area of three square miles was delineated on the "Top of the Latrobe Complex" mapping horizon.

Another possible structure was defined about five miles northeast of the southwest corner of Permit Vic/P4 with 100 feet of vertical closure over about four square miles. An absent or at best thin sequence of Latrobe rocks are postulated on the anticline.