



G. SURVEY :

The ship's position at every 3rd 'pop' was determined by XR-Shoran, supplied and operated by Offshore Navigation Inc. of Sydney, Australia. A separate report has been supplied.

Equipment calibration was carried out on 6th September, 1973. Six sets of base station equipment occupied station Mt. Warrnambool with the mobile equipment on station Mt. Richmond. All observed calibration readings were satisfactory and the equipment was accepted as functioning within its specifications.

Geonav was used as the secondary survey system for the operation with an added responsibility of maintaining shotpoint interval. This was achieved by two methods :

- (i) Through use of the Sonar Doppler sub-system of the Geonav to determine along track velocity. This was employed when water depth was such that usable data was being produced by the sub-system.
- (ii) When water depth increased beyond the sub-system's capability, rate from the Shoran read ranges was interpreted and fed to the Geonav as a manual velocity.

Two lines, H03-45 and H03-78, were located by Geonav and processed for mapping as such, due to Shoran loss of signal.

Preplots were prepared by G.S.I. through Engineering Computer Services of St. Leonards, Sydney. Postplots were prepared by the same agency, showing the position of the antenna using observed range readings. By employing a constant setback, the position of the shotpoint was determined and used in the preparation of