

DAVEY RIVER AREA, DETAILED CONTD.

4S/3: South east of PP 141 there is an E.M. high within metaquartzites transgressive to magnetic trend and very unfavourable.

SHEET 5S.

The magnetic high of 550 gammas due to pyritic-graphitic schists and associated with major faulting occurs on the west coast of the Davey River inlet. Magnetics, as in other sheets, reflect structure. E.M., in view of the unfavourable geological environment, is uninteresting.

SHEETS 6S and 7S.

Similar types of correlations of magnetics and comments on E.M. as above apply here too.

C. Some Special Aspects.

1. MOORE'S VALLEY AREA.

On geological evidence it has been suggested that a rift valley intersects the Lyell Shear in this region, the rift valley having been filled with Tertiary Macquarie sediments. The Lyell Shear suffers a flexure in this area resulting in a displacement in the south to the west.

This area is being treated separately because of its falling at the intersection of photo mosaics 17, 18, 20 and 21. In view of its geological importance, an attempt is made here to provide some additional information, or at least definition as to the possible structural conditions. Because it is believed that the E.M. response from the Tertiary Macquarie sediments mask any response which might have been obtained from the underlying rock types attention is confined mainly to the aeromagnetic maps.

The following points are relevant in discussing the possible lines of faulting:-

- (i) In the south-eastern corner of Sheet 21 there are some magnetic highs around the margin of the granite which are considered to be due to magnetic segregations, which apparently contain higher concentrations of magnetic minerals and delineate the periphery of the granite.
- (ii) The high to the south-east of the granite is probably an intra pre-Cambrian feature. The idea of the granite extending east of the junction under the pre-Cambrian to the south is not favoured.
- (iii) In the central portion of the Tertiary cover on Sheet 21 there is a broad magnetic low swinging in the direction of the proposed rift valley. Hence it can be assumed that both the Tertiary sediments, which here and