

STRUCTURE

Photolinears Photolinears express the strike of the bedding/foliation of the sedimentary rocks and probable banding in the mafic rocks. In the granite and basalts they are the expression of jointing. Locally zones of anomalous aligned photolinerers may indicate shear zones.

The photoliner pattern indicates a major swing in the regional strike in the area. In the south of the area the regional strike is SE and in the north of the area SW. The Meredith granite occurs at the axis of this change.

Folding A number of fold closures are indicated by the trends of the photolinerers (bedding) and contacts. The closures of the Heazlewood Syncline, Huskisson Syncline and Sophia Syncline are all apparent. Immediately north of the Chester Pinnacles are two near circular domal features faulted together. There is no photogeological evidence for the large drag fold shown on the 1:50 000 scale geological map of the Comstaff Tenements (see Maps accompanying Appendix 1 Comstaff Report for 6 months ending December 1978 by D.B. Orr). Neither the Just in Time Anticline nor Que Syncline can be detected on the photographs in the sedimentary areas. However the Que Syncline is expressed by an inlier of sediments in the basalt cover (Mount Pearce) east of Waratah. There are a number of minor folds, some of which affect the mafic intrusives in the south east of the area and these are probably drag folds associated with the folding which produced the Huskisson Syncline and Renison Bell Anticline.

Major Fractures There are three major fracture trends in the area NE, NW and NS with a subordinate E-W trend apparent in the South of the area. On the Landsat image the N-S to NE trend is emphasised.

As these major fractures often coincide with changes in photogeological (and so probable lithological) units and also displace the units it is probable that they are faults. Some within the granite may be tension fractures and shears associated with the intrusion.

The N-S fractures generally exceed 7 km. in length and as they frequently define contacts they are possibly gravity faults.

Analyses of the frequency and trends of these fractures have been made.

LINEAMENT ANALYSIS (MAJOR FRACTURE)Intersection (Frequency) Analysis (TAS-2-787)

A map has been drawn of the number of fracture intersections per 6.25 km<sup>2</sup> obtained from a random grid drawn over the 1:250 000 reduction of the photointerpretation maps.