

ECONOMIC GEOLOGICAL DEDUCTIONS FROM THE
PHOTOGEOLOGICAL INVESTIGATION

Photogeological Expression of Mineral Occurrences

Lithological/Stratigraphic

Most of the known mineral occurrences in the area (Mt. Bischoff, Rosebery, Renison Bell, Savage River, Magnet Mine and Chester Pinnacles/Chester Mine) are located on or in topographically positive features lacking in vegetation/forest cover and have very light outcrop areas.

However, since these mineral occurrences are of a variety of differing types it is considered that these characteristics are partly coincidental and partly cultural (post discovery/exploitation) and can not be used as a exploration anomaly guide. They may, however, be positive factors in assessing an anomaly located by other prospecting techniques.

Structural

Local Only the mineral occurrences at Chester Pinnacles/Chester Mine are closely associated with folding, the domal features north and east of these occurrences.

Several of the known occurrences are located at or close to the intersection of NE and SE trending faults e.g. Renison Bell, Rosebery, and Tullah.

Regional From the intersection analysis it appears that the Luina and Bischoff deposits are located on NE trending intersection zones, which correlate with magnetic highs. The Tullah deposit also lies on a intersection zone. In an area between Mt. Ramsay and the Chester Pinnacles i.e. the confluence of the Ramsay and Hatfield rivers several intersection zones intersect (NE, SE and E-W). A strong linear N-S trending magnetic high also passes through this area and the Just in Time Mine is situated in this area. It is deduced that this area is one of high potential for mineral occurrences. Two other areas of interest are the Heazelwood Syncline (anomalous intersection high) and the Mt. Block area (anomalous intersection high and intersection of intersection zones (SE and EW).



M. C. Hussey