

### Owen Conglomerate

The geology of the Upper Cambrian/Lower Ordovician of the Newton Creek Area is described in detail in Corbett (1975) and will not be further dealt with in this report.

### Structure

The rocks within the area appear to be east facing and east dipping with a general NNW strike south of Newton Creek (NW strike north of Newton Creek), and an approximately NW trending cleavage. A possible synclinal structure within the Tyndall Group at Newton Creek is faulted off by the Great Lyell Fault. The mapped area is bounded by the major structure of the Henty Fault and Great Lyell Faults. Cross faulting within the area is difficult to determine but photointerpretation and geophysics indicate major NE-SW trending faults north of Newton Creek and NW-SE trending faults south of Newton Creek (see figure 54).

### 2.6.6 Conclusions

1. Mapping indicates that the Leech Hill pyrite mineralisation is probably on strike from mineralisation located at the intersection of Bradshaw's Road and line 6N (East Tyndall). No further work is recommended at Leech Hill, until the area near the line 6N - Bradshaw's Road intersection, is evaluated.
2. Mapping in the vicinity of gradient array I.P. anomalies in the western part of the Basin Lake grid (see Howland Rose, 1974) indicates that black shales may be the source of the anomalies.
3. The Genie E.M. system has not clarified possible base metal mineralisation on strike from 7m of massive pyrite located in DDH BL4.

### References

- Corbett, K.D. 1975 - Preliminary report on the geology of the Red Hills-Newton Creek area, West Coast Range, Tasmania. Tech. Rep. Dep. Mines Tasm. 19:11-25
- Corbett, K.D. 1979 - Stratigraphy, correlation and evolution of the Mt. Read Volcanics in the Queenstown, Jukes-Darwin and Mt. Sedgwick areas. Bull. geol. Surv. Tasm 58.
- Corbett, K.D.; Reid, K.O.; Corbett, E.B.; Green, G.R.; Wells, K.; Sheppard, N.W., 1974  
- The Mount Read Volcanics and Cambrian - Ordovician relationships at Queenstown, Tasmania  
J. geol. Soc. Aust. 21:173-186
- Howland-Rose, A.W. 1974 - A report on Gradient Array E.I.P. and total magnetic field surveys over the Basin Lake Grid on behalf of the Mount Lyell Mining and Railway Company Limited. Scintrex Report No. Tas-025B