

16. DIAMOND DRILLINGA. PRELIMINARY

Initial drilling on the sheet areas was carried out by the Mt. Lyell Mining and Railway Co. Ltd. in 1970, 71. The Mines Department drilled 3 holes in 1972-73. Comalco commenced drilling of the Shepherd and Murphy Mine area early in 1976.

B. MT. LYELL DRILLING

Mt. Lyell's drilling consisted of 3 holes ML1A, ML2, ML3A, angled to test extensions of the known lodes at the Shepherd and Murphy Mine, (McKibben, 1971). The sites of the holes are plotted on the geology plan, TAS-76-46.

No significant intersections of mineralized quartz veins were found. Wrigglite was intersected in ML2 and ML3A but it was ^{not} recognized as a fluorite rich skarn and it was not split [^] and analysed. Greisenized granite was intersected in ML1 and ML2 at about 200 m below the surface.

The Mt. Lyell core was kindly made available to Comalco and has been logged, split and analysed. Logs are in Appendix 24, analyses in Appendix 25. The core is now stored at our Devonport base.

C. MINES DEPARTMENT DRILLING

Three holes, with a total depth of 521 m, were drilled on sheet 2 area to test mineralized skarns. Full details of core logs, analyses etc. are in Collins, (1975).

Pulps of the skarn intersections were given to Comalco so that analyses for fluorine and other elements could be carried out by the Comalco laboratory. Permission was also granted to sample other sections of the core. Analyses by both the Mines Department and by Comalco are in Appendix 25.

D. COMALCO DRILLING(a) Methods:

All drilling was carried out with Comalco personnel and equipment. The drill was a Joy 22HD mounted on a 6 x 6 GMC truck.

The first Comalco drill hole was labelled SMD 4, the number being consecutive to the 3 prior holes of Mt. Lyell.