

U54  
All core was logged, marked for splitting, photographed, split, analysed and stored at the Devonport base.

Many holes were scanned with a McPhar TV1 scintillometer to check for radioactive minerals but none have been found.

All holes except SMD 14 were logged by P. Askins. P.W. Stainton logged SMD 14 (and logged several other holes in addition, with sedimentological emphasis), (Appendix 27).

(b) Aims:

Initial drilling was aimed at delineating the extent and grade of the wrigglite. Most holes were therefore sited as close as physically practicable to magnetic highs.

Later drilling was designed to test M.I.P. anomalies which were thought to possibly be due to massive pyrrhotite-cassiterite mineralization.

(c) Results:

Full geological logs and analyses are given in Appendices 24 and 25. Recovery logs are in Appendix 26. Comments on all Moina holes, including Mt. Lyell and Mines Department drilling, are listed below:-

DOM 1: 360W/100N, vertical, depth 325 m. Is probably sited where the sequence of Gordon Limestone is thickest. Calc-silicate rock with only very minor wrigglite is at the base of the limestone.

DOM 2: 1340W/860S, vertical, depth 101 m. Sited in outcropping skarn. Magnetite-fluorite skarn, some pyrite and pyrrhotite rich, plus calc-silicate rocks to only 15 m.

DOM 3: 1200W/940S, vertical, depth 95 m. Sited on basalt, to 10 m. Magnetite skarn virtually absent, only calc-silicate rock to 23 m. Magnetite skarns probably stripped off here by erosion.

ML 1A: 1170E/070N, 50° towards 180°M, depth 265 m. Commenced probably in the Bismuth Creek fault zone in altered sandstone. No skarns intersected. Greisenized granite intersected at 225 m. Extra analyses and petrological studies of greisenized granite are being carried out at present:- will be included in a later report.

ML 2: 910E/150S, 50° towards 180°M, depth 335 m. Intersects wrigglite limestone partly replaced by wrigglite at about 168 m; this is one of the few intersections showing partial replacement relationships. Greisenized granite intersected at 331 m. No significant mineralized quartz veins.

ML3, ML3A: 1450E/125S, 50° towards 000°M, depth 260 m. Hole collared in sandstone, drilled through Bismuth Creek fault into wrigglite. Wrigglite in places is chloritic and relatively poor in fluorite and magnetite; here fluorine analyses are low. A petrological description of this rock is in Appendix 4.