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2. EXPLORATION AIMS AND METHODS.

As a result of our exploration in North Queensland where we had located fluorite rich magnetite-skarns, it became apparent that similar rocks occurred at Moina. C.J. Gove inspected the Moina area in February 1974 (Gove, 1974) and reported that fluorite-magnetite skarn was indeed widespread at Moina. The sample results from Gove's report are incorporated in this report.

Our exploration in the Moina area has been directed at locating a fluorite orebody for Comalco's captive aluminium smelting needs. The Moina area is an old tin-tungsten mining district, so the possibility of by-product tin, tungsten, molybdenum bismuth and gold has been also assessed.

The investigations have included literature search, gridding, topographic survey, geological mapping, costeaning and rock sampling, geochemical soil sampling, ground magnetic surveys, electrical and magnetic induced polarization surveys, gravity survey, seismic trials, and diamond drilling. Each of these is covered in detail below.