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L.E.E. carried out geological investigations at the Lewis River Prospect (Voyager 2) during the period January - February 1957, January 1958, and again in February 1958. Detailed geological mapping was undertaken and some gossan samples were analysed. The prospect gave no airborne E.M. response during the 1958 survey but was re-examined during 1959 and additional rock samples were collected for geochemical analysis.

L.E.E. concluded that the Lewis River Volcanics were of no further interest because the airborne E.M. anomalies proved to be due to sources other than base metal mineralization, and all the prospects examined were of insufficient tonnage and grade.

Broken Hill Proprietary Co. Ltd. contracted Aeroservice Ltd to conduct an aeromagnetic survey over a large (3550 square miles) area of South Central Tasmania. The survey, flown during February - May 1965 and February - May 1966, covered only the northern part of the Lewis River Volcanics. The aeromagnetic contours obtained, however, are essentially identical with those obtained from the 1958 L.E.E. survey.

During February 1968 B.H.P. carried out a helicopter borne scintillometer survey. The results confirmed the 1955 B.M.R. anomaly in the Lewis River area and several other anomalies of lower magnitude were detected in the Low Rocky Point, Wart Hill and Mt. Osmund areas.

Ground follow up exploration by Broken Hill Proprietary Co. Ltd., involved extensive stream sediment sampling of the whole of the Lewis River Volcanics, together with soil geochemistry over some selected aeromagnetic anomalies and Penders Prospect. Ground magnetics was also carried out over a few prospective areas. Geological mapping was undertaken in detail throughout the area.