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9. AIRBORNE GEOPHYSICS

9.1 Introduction

During January 1984 a combined electromagnetic/magnetic survey totalling 360 line kms was flown by Dighem Limited within the south-eastern segment of the E.L. area, south of Sheffield. This area was selected for the geophysical coverage as it contains a large proportion of the intermediate-acid volcanics known in the E.L. area.

A VH-BQT Lama turbine helicopter flew the area at an average airspeed of 115 km/h on 250 m line spacings with an EM bird height of approximately 42 m. Analogue equipment recorded four channels of EM data at approximately 900 Hz, two channels of EM data at approximately 7200 Hz, two ambient EM noise channels, two channels of magnetics (coarse and fine count), and a channel of radio altitude. Digital equipment recorded the EM data with a sensitivity of 0.2 ppm and the magnetic field to one nT.

9.2 Interpretation of Results

Survey results are detailed in Appendix 6 - Dighem Limited Report no. 368. All EM anomalies detected during the survey are listed in Appendix B of that report. To facilitate interpretation and ground follow-up of EM anomalies, geological maps were overlain onto the 1:10 000 scale magnetic, resistivity and EM maps contained in the report.