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INTRODUCTION

Cyprus Mines Corporation has entered into an agreement with Fimiston Minerals, whereby Cyprus is presently responsible for all prospecting activities under the Licence.

The scope of this report summarises the activities carried out within E.L. 47/70 during January and February, 1972. Exploration was continued in the Lynch Creek Area, and all data collected this year has been submitted with this report.

A soil auger drilling programme was undertaken and 361 soil samples were collected, as well as 231 rock chip samples. All samples were analysed by Atomic Absorption Spectrometry methods for Copper, Lead & Zinc. The results of this programme are tabulated in Appendix No. (ii), and discussed in the section commencing on page 15.

A ground magnetometer survey was conducted using a McPhar model M700 instrument. Readings were taken at all grid centres. Results are listed in Appendix No. (iii) and discussed on page 17.

An induced Polarisation survey was carried out on seven of the grid lines. The frequency domain, dipole - dipole method was used. All of these lines were surveyed using 300 feet dipole spreads, one using 500 feet spreads and parts of the same line using 100 feet spreads. Results are shown on the section for each line and a plan map has been prepared for each of frequency effect, resistivity and metal factor. The interpretation of the results is discussed on page 19.

To help carry out the above work, up to five local field assistants were employed under the supervision of a project geologist and a company senior field assistant.

The geology of the grid area was mapped by the project geologist. Aerial photographs enlarged to a scale of 1:2400 were used as control for the base map, and to assist in the mapping. The grid area was flown by light aircraft and a series of colour photographs were taken to assist in the interpretation of the geology. A geological map has been produced despite a large area of clay cover and alluvium plus a heavy vegetation growth. Twenty - three representative rock samples were selected for petrographic description. These results are tabled in Appendix (i) and the rock sample locations appear on the geological map accompanying this report.