

INTRODUCTION

A DIGHEM^{II} survey of 1,001 line-km was flown with a 200 m line-spacing for Comstaff Proprietary Limited from March 12 to May 5, 1980, in the Mt. Cleveland area of Tasmania (Figure 1).

The Lama VH-PDU jet helicopter flew with an average airspeed of 112 km/h and EM bird height of 44 m. Ancillary equipment consisted of a Geometrics 803 magnetometer with its bird at an average height of 64 m, a Sperry radio altimeter, Geocam sequence camera, Barringer 8-channel hot pen analog recorder, and a Geometrics G-714 digital data acquisition system with a Kennedy 9700 9-track 800 bpi magnetic tape recorder. The analog equipment recorded four channels of EM data at approximately 900 Hz, two ambient EM noise channels (for the standard and whaletail receivers), and one channel each of magnetics and radio altitude. The digital equipment recorded the EM data with a sensitivity of 0.25 ppm/bit and the magnetic field to one gamma/bit.

The Appendix provides details on the data channels, their respective noise levels, and the data reduction procedure. The quoted noise levels are generally valid for