

6. MURCHISON RIVER (I. McNaught)6.1. Introduction

Examination of the DIGHEM III survey preliminary data plots in January, 1984 indicated that the two highest amplitude anomalies located on the EL occurred on the Murchison River Prospect, north of the Murchison Highway and extending under Lake Rosebery. (See Figures 1. and 21.). Ground location of the southern anomaly was followed by a two hole drill test of the conductor during March, 1984.

6.2. Work Completed

Gridding: Re-establish and extend all old EZ Company grid. Total of 2.4km, slope corrected at 20m intervals.

Ground Magnetics: 2.4km proton magnetometer survey at 10m stations, on lines 74,900N to 75,200N.

Geological Mapping: Reconnaissance geological mapping of the one square kilometre area, followed by 2.4km of line mapping at 1:2500 scale.

Rock Chip Geochemistry: 18 samples were analysed by Analabs, Burnie for Cu, Pb, Zn, Ag, As, Fe (AAS) and Sn (XRF).

Maxmin EM: 2.2km was surveyed using the 1777 Hz frequency with 25m, 50m, and 100m coil separations. The 222 Hz, 444 Hz and 888 Hz frequencies were not operating effectively.

VLF EM: 550m of trial readings were conducted on lines 75,150N and 75,200N over the trend of the Maxmin conductor, as an introduction to the use of VLF in ground locating DIGHEM conductors.