

3.2 VOYAGER 9

i) Introduction - Previous Work

Voyager 9 defines the northern part of a pronounced aeromagnetic anomaly which extends over an area of 4 x 1km centred on AMG 380000 5244000. A 1200m x 1000m grid was placed over the area in 1980 with 100m line spacing closing up to 50m across the peak of the magnetic anomaly. Detailed ground magnetics, VLF-EM and geological mapping were conducted over the area at the close of the 1980 field season (for details see Large, 1981).

Examination of the geology showed the Voyager 9 area to be atypical of the Wart Hill Pyroclastics, due to the presence of a wide diversity of rock types and an extensive hydrothermal alteration. Rock chip samples furnished anomalous Cu, Pb, Zn values compared to the normal background of the unaltered pyroclastic sequences (see Large, 1981).

C horizon soil sampling was completed only across the northerly lines of the grid from 11450N-11750N and outlined a significant WNW trending copper anomaly with values of 200-2400ppm Cu and with coincident iron (> 1%).

A 60m auger core hole (DDH V9-1) was drilled to test the peak of magnetic anomaly on line 10950N. Although the analyses showed depressed base metal values the presence of bedded 'syngenetic' magnetite was recorded.

The Voyager 9 area was given a very high priority rating for additional work on the following grounds: