A control station was established at 378,000 E, 5 241,000 N (A.M.G.) corresponding to grid co-ordinates 10,100 E, 11,000 N. The baseline, 10,000 E, was surveyed between 9,600 N and 12,400 N using a theodolite. Pegs were placed at 50 metre intervals along the baseline. Crosslines were surveyed normal to the baseline every 200 metres with pegs located at 50 metres either side of the baseline. Crosslines were range poled and pegged at 50 metre centres. In total 2,800 metres of theodolite gridding and 17,575 metres of range pole gridding were completed.

Sheet KT 27/76 V1-2 details the Voyager 1 Area grid layout and peg positions.

Geochemistry.

Reconnaissance C-horizon auger sampling during 1976-77 was carried out at 25 metre centres on lines 50 E and 150 E of the Voyager 1 (Penders Prospect) grid. To enable more accurate testing of the proposed north easterly extension of the Voyager 1 mineralized zone, the auger hole spacing was closed up to 12.5 metre centres on line 50 E between 00 N and 250 S and on line 150 E between 100 N and 100 S.

Augering was carried out using Jacro 200 rig mounted on a Muskeg Bombardier and C-horizon samples were obtained from an optimum depth of 2.0 metres of refusal. In areas inaccessable to the rig, augering was completed by hand-auger techniques.

A total of 52 holes were augered, producing 59 samples (including duplicates) for a total depth of 80.60 metres. The 1 in 10 duplicate sampling procedure acts as an assaying check.

The Cu, Pb and Zn results are presented in profile form on Sheet KT 27/76 1G. Line 150 E shows the greater base metal response with peak values of 55 ppm Cu, 80 ppm Pb and 140 ppm Zn. These results were of sufficient character to confirm the existence of a narrow north easterly extension of the Voyager 1 mineralized zone.