

boundary at 132.5 m marks a dramatic change in the character of the rock. From 134.0 to 394.0 m the rocks show an erratic variability but with few very high values. Averaged over 5 readings the magnetic susceptibility shows a broad magnetic high occurring over 100 metres, at 250-350 m, within andesitic feldspar hornblende crystal tuffs which contains fine grained magnetite. This magnetic zone is contrasted with magnetically inactive rocks located at 394.0 to 451.0 m.

The magnetic susceptibility of the core adequately explains the ground magnetic anomaly to be due to a thick unit of andesitic crystal tuffs containing 1-5% magnetite but no other significant mineralisation.

D.D.H. BL4 /

Collar Location: 5 m south of line 30S, 6700'E
 Collar R.L.: 505 m A.S.L.
 Bearing: 244^o magnetic
 Inclination: -50^o
 Hole Length: 289 m
 Commenced: 1st May, 1981
 Completed: 27th May, 1981

Summary of BL4 core:

0 - 7.0 m: Glacial tills and clays
 7.0- 9.6 m: Weathered andesitic volcanics
 9.6- 10.8 m: Andesitic agglomerate
 10.8- 27.0 m: M.g. andesitic chloritic feldspar crystal-lithic tuff with up to 5% pyrite as disseminations, lenses and pods
 27.0- 55.2 m: Pyritic, carbonate rich, lithic-crystal tuff/shale interbedded with massive chloritic crystal tuff or lava. 5-15% pyrite.
 55.2- 64.7 m: Andesitic crystal tuff with zones of grey pyritic carbonate rich fine grained tuff
 64.7- 76.0 m: Massive pyrite (20-80%) with minor carbonate and tuffs
 76.0- 81.2 m: Pyritic (5-15%) chlorite-sericite schists
 81.2-111.2 m: M.g. andesitic feldspar crystal tuff with disseminated pyrite and bands of carbonate
 111.2-148.0 m: Black pyritic shale with some crystal lithic tuffs
 148.0-150.2 m: Tuffaceous breccia
 150.2-171.2 m: Black pyritic shale
 171.2-214.6 m: M-c.g. andesitic crystal lithic tuff and agglomerate with grey/black carbonate rich shale horizons
 214.6-225.6 m: Black grey shales interbedded with f.g. air fall tuff
 225.6-242.4 m: M to c.g. porphyritic andesitic hornblende feldspar crystal lithic tuff
 242.4-249.4 m: Interbedded f.g. air fall tuff, shales and andesitic crystal lithic tuff
 249.4-289.0 m: M to c.g. porphyritic andesitic hornblende feldspar crystal lithic tuff

BL4 - Results

The hole intersected a broad zone 10.8 m - 76.0 m of massive to disseminated pyrite underlain by 5 m of pyritic sericite schist (76.0-81.2 m). Base metals were generally insignificant except for 1.2 m of 0.18% Pb at 80.0-81.2 m within the pyritic sericite schist. Within the main zone of pyrite mineralisation (64.0-81.2 m) values of 17.2 m at 11.3 g/t Ag were obtained, with a maximum of 1.7 m at 62 g/t Ag within massive pyrite at 68.3-70.0 m. This massive sulphide, although lacking in significant base metal mineralisation, may indicate a prospective mineralised horizon. The lack of good