

011

Sheet 6 Contd.

A.6/1 - This E.M. trend has high values and is probably associated with the contact between Ordovician Gordon and other formations and the ultrabasics. With regard to the Ordovician Gordon it is probable that there is clay within this formation which would account for the E.M. response such as that on Line 36 between Frames 2779 and 2803.

A.6/2 - This E.M. high trend is very similar to those in the Gordon Concession which are closely associated with magnetic peaks. This one is just to the west of a magnetic high trend with the maximum magnitude of the order of 1700 gammas. From the geological mapping of P.B. Nye, abundant chromite appears to be the cause of these magnetic anomalies. This E.M. anomaly seems to be due to some conductive effect of the serpentinite body whatever the ultimate cause may be.

Ground checking of this area which is more accessible could provide valuable information, especially for comparison purposes.

III SHEETS 8, 9, 11, 12, 13 and 14. PORTIONS THEREOF.

For reduction purposes, small sections of the original mosaic cover have been combined into one sheet.

The whole area is flat magnetically and hence less discrimination is available. The northern part of the sheet is covered with Tertiary Macquarie and Recent sediments, whilst the southern portion contains more exposures of pre-Cambrian (?) Carbine. The E.M. pattern is complex with a tendency for a flatter area in the northern part of the Carbine where strike parallels flight line direction. There is faithful E.M. correlation with the Tertiary Macquarie and Recent - pre-Cambrian (?) Carbine boundary on the eastern side of the Sheet.

To the south along the Picton Fault, a number of small E.M. anomalies fall on either side of the fault. In connection with the question of possible displacement, it should be remembered that the fault is probably a fault zone.

A.12/1 - A suitable E.M. anomaly for later checking would be this one at FP.11 with a ratio of 1.34 and a phase shift on LF of 0.4 degree.

Ratio above line
LF below

H.S. Hancock
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H.S. Hancock, B.Sc.
Senior Geophysicist.