

Three significant prospects were located. A 40 m W-trending adit situated 80 m north of 192S, 2360E, produced a small amount of sphalerite-galena-pyrite as matrix replacements in highly chloritised lithic-crystal tuffs. The adit commenced in Dora Conglomerate and also passed through a narrow quartz crystal tuff unit. Magnetite-hematite-malachite was found in a pit on the hill immediately above the adit at the same stratigraphic position as the Zn-Pb mineralisation.

An E-W trending trench 60 m north of 176S, 2200E, contained strongly pyritised pink rhyolitic lavas which were brecciated and chloritised. The pyrite occurs mostly as veinlets and disseminations but some semi-massive pods were found. Minor magnetite and rare chalcopyrite were also noted.

Dumps surrounding a shaft and trench 80 m north of 152S, 2020E, contained intensely chloritised fine-grained lava with stringers and disseminations of chalcopyrite-pyrite. Primary textures were almost wholly obliterated by the alteration.

All three prospects occur in a zone of chloritic alteration which produced moderate-order I.P. anomalies. This zone coincides with the maximum incursion of volcanic rocks into the Dora Conglomerate and probably represents the peak in volcanic activity.

2.4.4 Geochemistry

1. Soils

Systematic soil sampling, by hand augering, was carried out over the Spicer Grid with samples taken at every 20 m peg. Because of the poor development of soil profiles and extent of glaciation both "A" horizon and "B/C" horizon samples were taken, wherever possible. The minus 80 mesh fraction was assayed for Cu, Pb, Zn, Ag, Mn and Co.

As expected "B" samples overall were lower in Cu-Pb-Zn than "A" samples, due primarily to the concentration of base metals in the organic material in A horizons, as noted in other areas (Hutton, 1980, p48).

Table 6 and Figures 47 to 49 summarise the distributions of both sample populations. "B" sample assays are given in Figure 50.

TABLE 6

Spicer Grid Soil Assays 1980-81

	Element	Log. Mean	Max. ppm	Anomalous Threshold
"A" Samples (656)	Cu	25	300	110
	Pb	99	820	420
	Zn	28	205	80
"B" Samples (467)	Cu	10	100	40
	Pb	18	550	180
	Zn	16	220	90