



Schematic plan sketch of basin following tectonic bulging and tipping on edge

The postulated tectonic bulging of the sequence at Main Creek may have resulted in large scale disruption of the magnesite beds and strongly influenced the pattern of associated alteration styles superimposed on the Carbonate Sequence, resulting in the complex array of "magnesite lenses" now defined largely on the basis of assay.

5.3 Alteration:

The alteration patterns within the Carbonate Sequence are complex. A good understanding of these patterns will be important because alteration clearly influences both the chemistry and the grades of the magnesite and, hence, the tonnages of the magnesite resources.

Thus, the resource lens outlines will probably reflect alteration patterns as much as stratigraphic controls.

Importantly, alteration is a result of tectonism within the Arthur Metamorphic Zone and not related to some intrusive body which would result in hydrothermal or contact styles of alteration. Because stratigraphy essentially parallels the tectonic fabric of the AMZ, it is hypothesised at this point that the alteration styles will be largely