Interpretation of AC53-613', AC -343', AC52-177', AC50-454', AC52-635'

For an original dolomite the following stages of alteration are recognised:

original sedimentary rock: dolomite $\pm$ calcite

contact metamorphism

$\pm$ metasomatism: forsterite + calcite $\pm$ spinel

retrograde alteration: serpentine (lizardite)

late retrograde alteration: talc-brucite-carbonate

The serpentine is always lizardite, yellow in color and typically of rounded habit with interstitial white carbonate which is replaced by magnetite and sulfide minerals in the ore zone (see thesis, Plate 10)

For an original dolomitic limestone the following stages of alteration are recognised:

original sedimentary rock: dolomite + calcite

contact metamorphism

$\pm$ metasomatism: diopsidic clinopyroxene $\pm$ forsterite, calcite

retrograde alteration: serpentine + tremolite $\pm$ clinozoisite

late retrograde alteration: chlorite $\pm$ talc, brucite, carbonate

The presence of Al-bearing alteration products such as chlorite and tremolite suggest original clinopyroxene rather than forsterite and this is reinforced by grain shape and presence of impurities.