Granduc, B.C.
by RV KIRKHAM

Discussion with Paul McQuigan Feb. 19/92

- could be a reserve remaining in the order of 15-20 mill. tonnes of 1.5% (in (too four grade) - poss. originally 50-8 mill. to 1.5% (in 200) and a contain in the order of 24 mill. tonnes ~ 1.5% (in - 1.5% and mine series at sed. - vol. contait - supplied an mine series at sed. - vol. contait - supplied - rich iron formation - some ling sittst twantes above - intersected subvolvanic sett diorite sill some actinolitic alteration with W + Mo (scheelite & mobildenite)

- N. Leduc Glacier some carbonate alt. in pillon lavas

- Cu-Co occurrences in vol. -minor pods to apartment size -malachite stains on cliffs

- worked there last summer for Helia

- some chemistry was done on volcanics

SUMMARY OF U-Pb AGE AND ISOTOPIC INFORMATION, KUTCHO CREEK, GRANDUC AND ANYOX DEPOSITS

KUTCHO CREEK:

UNIT: Quartz-eye schist, host to mineralization (Kutcho Formation)

AGE: Permo-Triassic, 249 ±7 Ma (preliminary)

SAMPLE NUMBER: KC-GC-01

UNIT: rhyolite intrusive, near the base of the Kutcho Formation

AGE: Permo-Triassic, 249 ±13 Ma (preliminary)

SAMPLE NUMBER: KC-GC-03

Pb ISOTOPES: 206 Pb/ 204 Pb = 18.43-18.51

 207 Pb/ 204 Pb = 15.51-15.61 208 Pb/ 204 Pb = 37.87-38.04

These values are more primitive than Mississippian to Jurassic VMS mineralization within the Stikine terrane (Childe, unpublished data) and Devonian mineralization of the Eagle Bay Formation of the Kooteney Terrane (Goutier, 1986), indicating that the Kutcho Formation formed in a more primitive tectonic setting than these island and continental arc terranes.

GRANDUC:

UNIT: basaltic-andesite flow, footwall series AGE: Upper Triassic, 223 ±5 Ma (final)

SAMPLE NUMBER: GD-GC-04

UNIT: Diorite sill, intrusive into the basaltic-andesite flows, footwall series

AGE: Upper Triassic, 223 ±3 Ma (final)

SAMPLE NUMBER: GD-GC-01

UNIT: deformed andesite, mine series

AGE: 223 ±1 Ma (final)

SAMPLE NUMBER: GD-GC-08

Pb ISOTOPES: 206 Pb/ 204 Pb = 18.62-18.65

 207 Pb/ 204 Pb = 15.56-15.58 208 Pb/ 204 Pb = 38.19-38.27

On the basis of these ages the deposit is inferred to be hosted by the Upper Triassic Stuhini Group. Pb isotopic compositions are markedly less radiogenic than for mineralization associated with the Jurassic Hazelton Group. Therefore it may be possible to distinguish between Jurassic and Triassic mineralization in Stikinia with the use of Pb isotopes.

ANYOX PENDANT:

UNIT: Granby Peninsula Turbidites

AGE: Lower Jurassic, 200 to 206 Ma (detrital zircon - final)

SAMPLE NUMBER: AX-GC-04a

UNIT: Mount Clashmore Trondhjemite(?)

AGE: Devono-Mississippian, 364 ±4 Ma (preliminary)

SAMPLE NUMBER: AX-GC-12

These two ages yield more information of the ages of rocks within the Anyox pendant but do not date the deposit itself.