

R. Kirkham  
GSC (Chyaboclastite)

- 1) Rock types: relatively unaltered and intensely altered HW andesite, argillite, transition zone, rhyolite, FW dacite, mudstone, deep maroon volcanics and associated rocks.
- 2) Ore types: stibnite, realgar-orpiment, arsenopyrite, native arsenopyrite arsenic, high sulphide (py, sp, gn), deep tetrahedrite, graded detrital sp, gn "beds", strong fabric ore, high Ag + Au ores (for petrographic studies - doubly polished T.S.) (comparison @ Buchans debris flows)
- 3) Alteration types: intense K-spar, intense Mg-chlorite, intense mica, barite-fluorite, (Mn<sup>2+</sup>) carbonate F-bearing
- 4) Vein types: crustified f.g. quartz breccia veins, Mn carbonate, sulphide veins, orpiment-realgar breccias, explosion breccias
- 5) Samples to Evaluate Dating Possibilities: 1) U/Pb zircon - relative/ fresh rhyolite (3-4 lbs? @ possibility of collecting much more); 2) intensely K-feldspathized rock - K/Ar whole rock and Ar 39/40 (~3-4 lbs @ possibility of collecting much more).
- 6) Samples for preliminary multi-element lithochemistry (primarily for comparison @ Sulphurets) - 6 or 7 <sup>typical</sup> samples of main ore types and some deep base metal mineralization. Eventually pulps maybe requested for one deep hole to document element (and mineral) profiles.

August 21/87

148508

Capric Core

R. Kirkham

Chet Idziziek

President

Prime Exploration

- 1) Rock types: ~~tholeiitic basalt, andesite, gabbro, diorite, quartz diorite, and associated rocks.~~
- 2) Ore types: ~~stibnite, scapolite, arsenopyrite, arsenic, high sulfidation (py, sp, an), deep tetrahedrite, graded detrital sp, an beds, strong fabric ore, high Al + Au ores.~~
- 3) Alteration types: ~~intense K-spar, intense Mg-chlorite, intense mica, barite-fluorite, (Mn) carbonate.~~
- 4) Vein types: ~~crystallized f.p. quartz breccia veins, Mn carbonate sulfidate veins, argonite-scapolite breccias, epidote veins.~~
- 5) Samples to Evaluate Dating Possibilities: ~~U/Pb zircon - relatively fresh rhyolite (3-4 lbs). @ possibility of collecting much more; 2) intensely K-feldspathized rock - K/Ar whole rock and Ar 39/K40 (3-4 lbs @ possibility of collecting much more).~~
- 6) Samples for preliminary multi-element lithogeochemistry (primarily for comparison @ sulphur) - ~~5 or 10 typical samples of vein ore types and some deep base metal mineralization. Eventually pulps made requested for one deep hole to document element (and mineral) profiles.~~

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August 21/89

Calpine Cone

#21 Zone

- samples (31) taken by R. V. Kirkham (GSC)

#11 - 147.1m

21 - 59.6m

26 - 188 feet (57.3m)

26 - 179.5m,

28 - 65m

28 - 72.6m

35 - 19.3m)

35 - 85m

35 - 90.7m

36 - 204.4m

41 - 161.8m

43 - 115m

43 - 135m

44 - 174m

44 - 180.3m

44 - 202.6m

44 - 233.4m

45 - 391m

45 - 392.7m

45 - 414.5m

#59 - 90.3m

#59 - 190.8m

#59 - 199.4m

#59 - 240m

#59 - 251

#59 - 256.6

#59 - 410m

#86 - 82m

#87 - 98.3m

#89 - 84.5m

#93 - 78.4m