

Soz

1988/1989

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PROJECT STATEMENT: The Boundary Ranges near the Sulphurets Glacier have been the focus of intense exploration efforts for the past seven years. Many new gold and silver discoveries have been reported. Development work is underway at two properties and an access road is under construction. The B.C. Geological Survey program in the Sulphurets area will produce a geological map of the district, accurately locating the many new deposits and several extensive gossan zones in the region. Detailed studies will determine the geological controls of the mineral deposits to assist ongoing exploration efforts by several companies and independent operators.

OBJECTIVES:

- Establish a regional stratigraphic column.
- Sample strata and intrusives for fossil studies and radiometric dating.
- Resolve the structural and metamorphic history.
- Expand and update MINFILE
- Document the geological features of the mineral deposits and their associated alteration envelopes.
- Determine the geological controls, age, and environment of ore deposition.
- Develop deposit models useful for regional scale exploration programs.

JUSTIFICATION: The Unuk River/Sulphurets region lacks a regional-scale geological framework to aid analysis of 76 mineral occurrences in the map area. Only 13 of these occurrences are presently listed in MINFILE! Over 20 new occurrences have been discovered within the last 6 years. Aggressive exploration continues in the district; the most significant discovery this year is the Konkin Zone gold-bearing skarn deposit. Documentation of the geological setting is an essential component for development of deposit models that are required for regional-scale exploration programs. This project will also produce a stratigraphic column and a detailed geologic map for use by the exploration industry.

DESCRIPTION & PLANS FOR 1988-1989: Complete a preliminary airphoto analysis the before field season. A six-man field party, operating out of a central base camp, will spend 10 weeks in the area from July to September, 1987. The entire program will be conducted from compact, helicopter-supported flycamps to maximize mobility. The area to be mapped covers 800 square km. Mapping will be plotted on 1:10 000 air photos and compiled on 1:20 000 base maps. Data compiled from public and private reports and maps will be reviewed and revised during field mapping and prospect evaluation. This program will include routine sampling for assays, PGE analyses, microscopy, age dating, and fossil study. Output will be produced through the winter of 1988/1989; the project will continue into the following season.

OUTPUTS: Reports - Geological Fieldwork 1988
 - Exploration 1988 (Section B)
Maps - Openfile map of Sulphurets District @ 1:50 000
 - Openfile map of Brucejack Plateau @ 1:20 000
 (on an Orthophoto base)
Minfile - Enter and update all occurrences
Talks - Cordilleran Round-up 1989; CIMM, MEG, GAC, NWMA, PDA.