Tectonic and magmatic controls of base and precious metal mineralization
Penticton east-half map sheet, southern B.C. (082E/East)

Trygve Höy (thoy@shaw.ca) and Wayne Jackaman (wjackaman@shaw.ca)

2015: Almond Mountain project

Introduction: Project Summary
The Penticton-East-half project is located in southern B.C., extending west from Arrow Lake to the Highland Bell camp and south to the U.S. border. The project includes the Rossland mining camp, the Rossland group in the Ruckle camp, the Rossland group in the Ruckle camp, and the Almond Mountain project. The project is intended to evaluate the mineral potential of the area and to provide models for the control of base and precious metal mineralization in an area that is dominated by Eocene extension and magmatism.

The area has been mapped and compiled at 1:50,000 scale by the Geological Survey of Canada (GSC), but limited geological mapping since a regional mapping compilation project completed by the GSC in 1989.

Objectives
- Collect more detailed geologic data in the area
- Test the hypothesis that tectonic/magmatic controls to metallic mineral distribution:
- This study, based on work along the eastern margin, suggests two main tectonic/magmatic controls to metallic mineral distribution:
- - along strike trending and along structural levels,
- - focal or paleo faults combined with structural levels, and
- - regional geology.
- Host lithologies are also a prominent control, although these largely reflect structural levels, intrusive phases exposed in higher level hangingwall panels.
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