THE NELSON-YMIR-SALMO MINING CAMP A NEW LOOK AT ZONING BASED ON PRODUCTION RECORDS

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INTRODUCTION

When logarithmetic values of mineral production were plotted it was found that various mines formed distinct groupings of 'populations.' Individual mines from each group can then be studied for criteria which would lead to discovery of similar deposits elsewhere in the area.

In this study log Au is plotted against log Ag for production from camps: (1) Sheep Creek, (2) Ymir, (3) Keystone Mountain, and (4) Hall Forty-nine Creek.

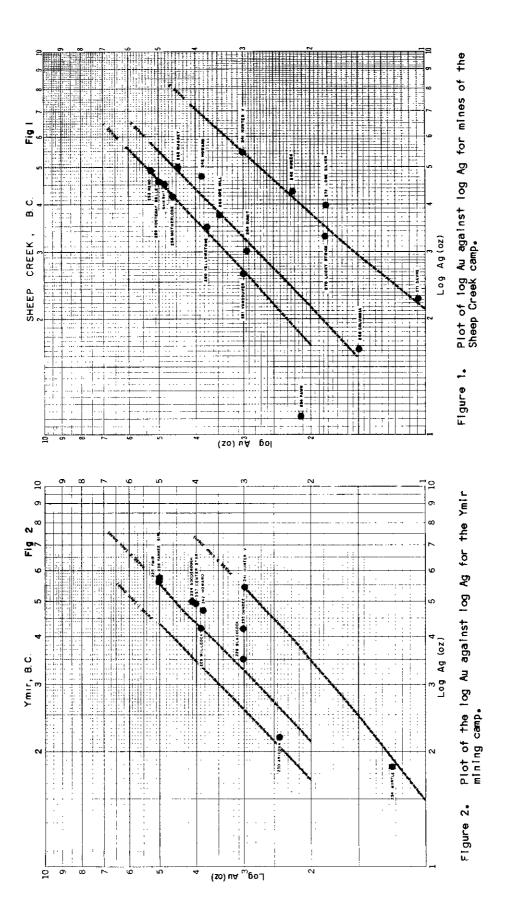
The mines studied are all past producers and occur in the Nelson-Ymir-Salmo area. 'Location of Mines in the Nelson-Ymir-Salmo Area' includes gold mines as well as the zinc-lead deposits of the 'Kootenay Arc.'

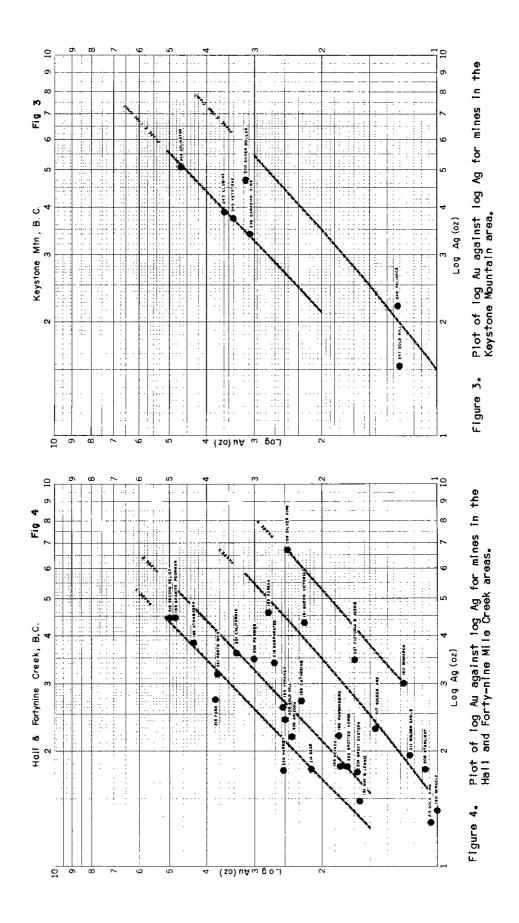
The mines of the Sheep Creek Camp (Figure 1) seem to fall into three natural groups based on the production figures. The same 'phases' have been used for Ymir (Figure 2), Keystone Mountain (Figure 3), and finally Hall and Forty-nine Creek (Figure 4).

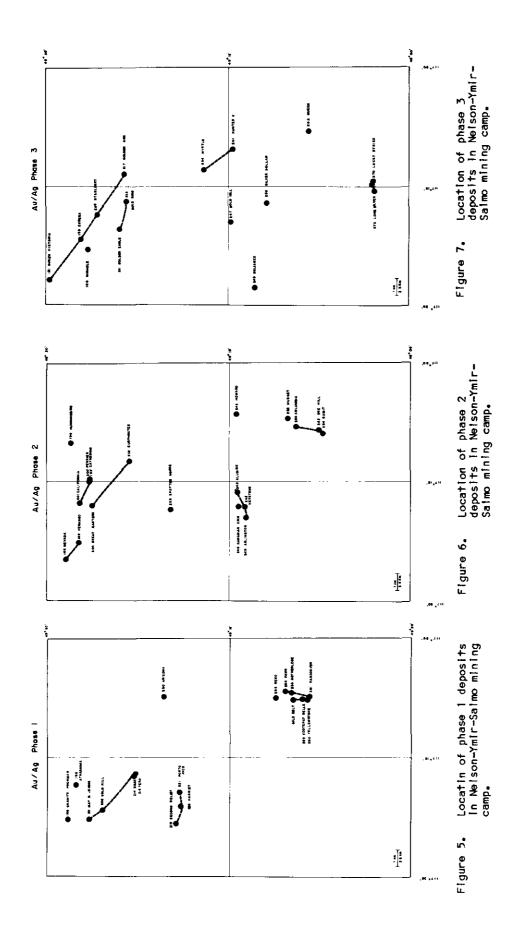
Mines related to the three phases of mineralization found from the above graphs are located on the individual maps designated 'Phase 1,' 'Phase 2,' and 'Phase 3' (Figures 5, 6, and 7).

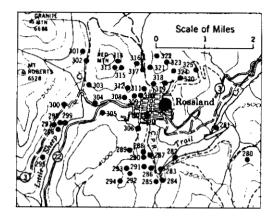
TARGET AREAS

It is proposed that mines in the same 'phase' are somehow related. When they are close together a dashed line has been used to show their possible relationships. It is on these theoretical lines or projections that I would recommend prospecting.

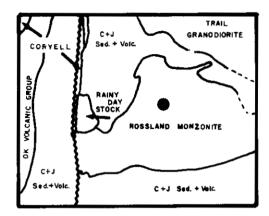




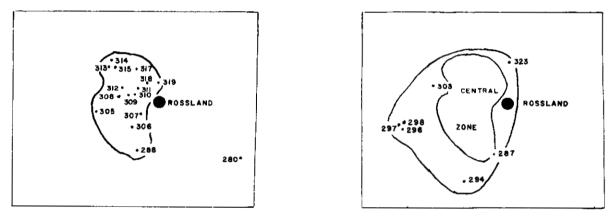




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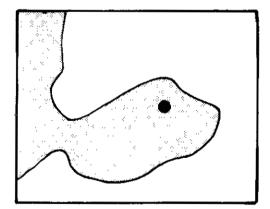


GEOLOGY after FYLES, 1973



PHASE | Mines - Central Zone

PHASE 2 8 3 Mines



Aeromagnetic Map 8483 G at 58,000 gemmas

Figure 1. Index of location of former mines of the Rossland mining camp; first phase location of mines on Phase 1 line from graph 2; second and third phase location of these phases from graph 2; geology of the Rossland mining camp after Fyles, et al., 1973; aeromagentic map 84836 of the Rossland mining camp at 58,000 gammas.