

Geo. A'lie Monthly  
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Willa Mine Field Trip - June 29.

Dr. Trygve Hoy arranged the trip in conjunction with his Rossland volcanic study.

The mine geological map has changed considerably since I last saw it. Too, this is the first time I have seen some of the "ore" zones. These were all in the feldspar porphyry of the west zone. The following observations are made:

1. The difference between the "ore zone" feldspar porphyry breccia and the feldspar porphyry breccia which does not have gold (but has all the other minerals) is simply that the gold zone clasts have reaction rims. (At least in the three zones we visited.)
2. The gold fineness is 500.
3. Lead and Zinc are not present in the ore zones which we examined.
4. Tourmaline was identified on the dump. I don't recall this mineral being identified before. The Mine Geologist seemed to be surprised.
5. The feldspar porphyry has a ziron date of 194 m. yrs.
6. The ore zones are cut by lamprophyre dykes (50 m. yrs) without reaction rims. ie. the contact is very sharp.
7. The log plot of the gold values is on a straight line indicating one period of gold mineralization.
8. The east "ore" zone is not in a feldspar porphyry but in the volcanics. The new ramp will just clip this zone before turning back to the west zone.

I offered to do a computer gold/silver ratio analysis for them.