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25 Jan. 78

PROPERTY SUBMISSION NOTES
LOGAN PROPERTY

Location: Excellent

Setting: A small root pendant of Harrison Lake type volcanics, unmapped on a regional scale, and of unknown areal extent.

Mineralization: Abundant small Cu-Zn-Bi showings associated with quartz stockwork and/or shear zones, adjacent to Coast Intrusive contact. One low grade Cu showing appears to lie within the intrusive. A drill hole (DDH 2) designed to cut a showing close to a sediment/volcanic fault contact, intersected 0.53% Cu over 15.5'.

Stratigraphy: A slight re-adjustment of the volcanic stratigraphy mapped by Reamsbottom, based on geochemical and geophysical trends, yields a stratigraphic succession quite similar to that at the Seneca (See interpretation sketch). One difference would seem to be that the welded tuff plays a greater role, and is indeed geochemically anomalous to a similar extent to the rhyolite tuff which underlies it

Structure: Obviously quite complex. As at

the Seneca and Chehalis prospects, this would necessitate a very detailed exploration approach.

Alteration: Another complicating feature. Units 1 & 9, for example, could possibly be the same unit.

Anomalies: A prominent feature of the property is the anomalous zone at 2E/4S. Overlaying of the various maps indicates the the strong magnetic high is clearly encircled by an area enriched in Cu, Zn, & Ag, as well as by several small showings. The magnetic high appears to represent a quartz-stockwork with disseminated magnetite.

The second most interesting anomalous feature is the small coincident Cu-Zn soil anomaly in the vicinity of drill holes 1 & 2, and of the sedimentary horizon.

Genesis: The crucial question relates to the source of the mineralization — whether a contact effect, or a "Kuroko" type root zone.

In favour of the former we have alteration effects adjacent to the intrusive, and one small showing within it.

In favour of the latter, we have a fairly suitable lithologic succession, metal anomalies sub-parallel to stratigraphy, an intersection close to (though in uncertain relation to) the sedimentary

horizon, and no Cu enrichment effects near the intrusive contact, as was clearly evident, for example, at the Eagle Creek prospect.

Conclusions: I am inclined slightly towards the volcanogenic possibility. The presence of a (possibly 100') thick section of welded tuff is encouraging as evidence of explosive volcanism. A similar unit is present at or close to mineralization on the Chehalis and Seneca properties.

The discouraging features are the geologic complexity, and the uncertain extent of the possible host rocks.

Recommendations: We should get the regional magnetic coverage, and relevent air photos in an attempt to delineate the intrusive contacts.

We should also visit the property. Although I do not have any high hopes of getting involved in an option, a visit would be cheap and possibly rewarding. The option terms, incidentally, are reasonable with respect to cash $, and the carried interest (20%) may be negotiable. The nearest assessment work date is 31 July 78.

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