

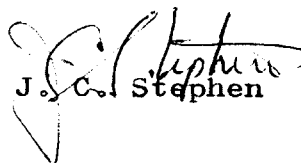
INTER-OFFICE

TO: W. R. Bacon
FROM: J. C. Stephen
SUBJECT: STIKINE RIVER AREA.

COMPANY: Mastodon-Highland Bell Mines
DATE: April 6, 1964

- 1) The ^htrust fault reported associated with mineralization east of Galore Creek (American Metals) is north striking and is not the E. W. fracture we saw on the air photos. However, this East-West fault is mapped by Kennco on their ground. Mike Carr seemed surprised that we were aware of it. He recommends that we examine and copy the assessment reports filed by Kennco.
- 2) Only a few rock specimens were seen from Galore Creek as some had been lost in transit. A wide variety of intrusives are present - extremely detailed mapping is required with constant re-mapping and revision. The area is intruded by complicated dyke swarms, not by any massive intrusive. The one ore sample serves only to emphasize the need for very close examination of any mineralization. Very finely disseminated bornite was practically invisible to my unaided eye on a dry surface. It is very evident however on a smooth surface - saw cut - when wet under a magnifying glass.. Would recommend that each crew have a coarse file and whetstone to grind smooth a portion of any interesting rock samples. The one saving feature in many cases seems to be the general development of malachite on exposed surfaces. Where biotite is present in quantity the bornite is apparently practically invisible. Magnetite is abundant in places as a breccia filling - Carr remarks that in this way it is very similar to that at Mt. Washington. The distribution of magnetite is not necessarily comparable to that of copper.
- 3) The H.B. & M.S. ^{HBM+6}geologist in Galore Creek in 1955 or '56 was Russ MacIntosh who was once geologist at Madsen Red Lake. He was no more familiar with porphyry copper than I was. It is possible he also looked after the Big Salmon Lake drilling. I mentioned this to Carr - he was not familiar with Big Salmon Lake - but when I mentioned the mineralization he said "What are you waiting for? exploration is moving into the Tulsequah area staking specific targets."
- 4) Claim maps of the area are no more up to date than our own copies. Silver Standard staking is not on the maps. Part of Conwest's northwest group is on and they are aware of the south block. In my own estimation the plotting and service of the Department in this regard is unnecessarily slow and slipshod.

JCS:c


J.C. Stephen