



Province of
British Columbia

Ministry of
Energy, Mines and
Petroleum Resources
GEOLOGICAL SURVEY BRANCH

MEMORANDUM

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Memo To: File

PROPERTY FILE

From: Robert Pinsent

Date: August 24th, 1992

Subject: Avalanche "Massive Sulphide" Property: 92J10W

Notes from property visit and discussions with Fred Daley and Jean Paulter: 18th August, 1992

(1) Teck has completed it's surface evaluation and it in it's second phase of drilling. The Company has established the presence of a favourable rock package and has encountered trace mineralization. Sofar it has failed to locate "ore-grade" mineralization.

(2) The Company are exploring for VMS deposits in a package of Cadwallader Terrane volcanic and sedimentary rocks located approximately 10 km east of the terrane boundary with Wrangellia (Lillooet River Valley). The package is deformed by what is probably a relatively minor spay related to the bounding fault (Grizzly Mountain shear).

(3) The package contains, subvertical, northwesterly trending panels of intermediate to felsic volcanic rock and argillaceous sediment. Company nomenclature suggests west-east younging sequence - pluton, andesite, argillite, chert, felsic dykes, felsic volcanics, argillite, felsic volcanics (thick) and andesite. "Lower Zone" mineralization occurs in chert and felsic tuff west of the Grizzly Shear zone. "Upper Zone" mineralization occurs near the west side of the large felsic body east of the Grizzly Shear zone. There is no mineralization on the east side of the felsic body. The package projects northward under Tertiary cover.

There is no definative data, but I think it makes more sense for the stratigraphy to young from east to west.

(4) The rocks are largely unmetamorphosed and they are suprisingly undeformed. Felsic rocks west of the shear zone are massive. Some have (epidote/pyrite) filled cavities that are still essentially spherical. There is no evidence of shearing, rotation or flattening. There is no boudinage or quartz veining - infact little sign of a major episode of shearing. There is more sign of deformation east of the fault but it is relatively minor, brittle deformation with rare quartz veining. There is little evidence of fault introduced hydrothermal activity.

(5) There is a small showing showing that is part of the Upper Zone near the east side of the large felsic unit east of the main fault. It consists of a small lens of banded sphalerite, galena and pyrite immediately adjacent to a small amount of carbonate. It is not certain whether it is a sulphide/carbonate vein or a small lens of "massive sulphide" with minor limestone. The Company has drilled below and along strike from the showing. It has found sericite/carbonate alteration with a small amount of vein (?) mineralization. To date, it has not located anything of any size.

(6) Felsic rocks are locally pervasively sericitized and/or weakly carbonate altered. They are more rarely silicified. Quartz veins are relatively uncommon.

(7) The Lower Zone (west of the fault) is comprised of highly pyritic cherty tuff at the base of a felsic tuff unit. It corresponds to a good (Pb) geochemical anomaly and contains a small amount of basemetals.

(8) The two argillite packages are graphitic and pyritic. They make excellent geophysical conductors. This is a serious impediment to exploration.

(9) Teck will finish it's current drill programme and review it's options.

R. H. Pinsent



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Memo To: File

From: Robert Pinsent

Date: July 24th, 1992

Subject: Avalanche "massive sulphide" Property: Pemberton:

PROPERTY FILE

Notes of conversation with Fred Daley of Teck Corporation in Kamloops (604-372-0032).

(1) Teck drilled 10 holes into a good grid soil/EM anomaly over a volcanogenic "massive sulphide" target last year. They encountered good alteration, pyrite and substantial thicknesses of weak zinc mineralization. None of their intercepts were ore grade.

(2) The property is underlain by Cadwallader Terrane felsic to intermediate pyroclastic rocks with a minor component of intercalated chert and argillaceous sediment. The sediment is locally graphitic - which causes problems with geophysical surveys.

(3) The Company has a budget of \$125,000 for the project. It intends to drill four holes over the next few weeks. They are designed to test anomalies and flesh out the Company's understanding of last years drill results. The Company may run down-hole geophysical surveys - if it intercepts decent mineralization.

(4) The project is helicopter supported. Contact is through Pemberton Helicopters.

Robert Pinsent