



Province of
British Columbia

Ministry of
Energy, Mines and
Petroleum Resources

Parliament Buildings
Victoria
British Columbia
V8V 1X4

009805

August 10, 1983

Mr. Lorne Bond
Afton Mines Ltd.
Box 937
Kamloops, B.C.
V2C 5N4

Dear Lorne:

Enclosed is a copy of X-ray data from the 'phyllitic' zone that we visited at the west side of the pit in May.

As you can see, there is some mica but kaolinite dominates. It would be better to call it a zone of argillic alteration.

We enjoyed the tour as usual. Thanks again for your help.

All the best,

W.J. McMillan
Manager, Geoscience Projects
Geological Branch

WJM/dib

Encl.

*Sent X ray report + copy of
Swing Pulm. Map*



DATE June. 30., 1983.....

Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources

SAMPLE RECEIVED FROM W. J. McMILLAN

ADDRESS Geological Branch

LABORATORY NO.	SUBMITTER'S MARK	LABORATORY REPORT
27608M	AN-1 <i>Afton</i>	<p align="center"><u>XRD Report</u></p> <p>PYRITE, QUARTZ, KAOLINITE and a small amount of CHALCOPYRITE have been identified from the vein. The altered host rock, on the other hand, consists of QUARTZ, ANKERITE, KAOLINITE and small amounts of Mg-rich SIDERITE and disordered 1M MUSCOVITE. Among these minerals, kaolinite is apparently mainly veinlet-forming and is consequently later than the rest in paragenesis.</p>
27609M	LX-1 <i>Lornex</i>	<p>The greenish-black mineral is CHLORITE. Other gangue minerals occurring in the vicinity include QUARTZ, SPHENE, ALBITE, EPIDOTE and CALCITE.</p>
27610M	VY-1 <i>Valley</i>	<p>Gangue minerals occurring in the chalcopryrite-containing vein include QUARTZ (the purple band is impregnated with HEMATITE), CALCITE (pinkish), SERICITE and a small amount of CHLORITE.</p>

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LEGEND

T - TRACE
M.C. - MAJOR CONSTITUENT
N.D. - NOT DETECTED
P - PRESENT

W. M. Johnson
.....
CHIEF ANALYST