

Energy, Mines and Resources Canada Geological Survey of Canada 100 West Pender, Vancouver V6B 1B8

6 June, 1983

Énergie, Mines et Ressources Canada Commission géologique du Canada 100, ouest, rue Pender, Vancouver

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Your lile

Votre référence

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Mr. R. Somerville AJM Explorations Ltd. 203 - 1209 East 4th Street North Vancouver, B.C. V7J 1G8 F.F. 20-1

Dear Rick:

Following up on our telephone discussion last week, here are the Pb isotope analyses I received over the telephone from Ralph Thorpe:

DY 2551 Small vein intermediate to Maura and Allison veins Ref: Thorpe memo Jan. 21/83	Pb/ Pb 19.133 19.143	Pb/ Pb 15.694 15.707	Pb/ Pb 38.950 38.995
DY 2544 Cusac claims; Line #4 vein	19.171	15.649	39.042
DY 2543 Bad Bear or McDame Belle	19.348	15.742	39.833

I have plotted these analyses with some selected from Colin Godwin's Pb isotope file for deposits in the Cassiar district, most of which were submitted by Andre Panteleyev.

You will note that the skarns (BB,S,LT) plot close to the gold veins (C,E), although the deposits show a broad scatter typical of Cretaceous pluton-related leads. We do not have a stratiform Pb analyses from the Sylvester Group to compare with these analyses, but the average of available Devono-Miss stratiform leads from Mac Pass and Gataga plot on the Shale Curve in the 'Miss-Penn.' age range, as shown on the accompanying figure.

If the Pb in the Au veins were remobilized from a Sylvester Gp. stratiform deposit, or derived from trace amounts of metals in the host rock, then the isotopic composition would correspond more closely with the Dev-Miss average figure. The data strongly support a relationship to Cretaceous and/or younger plutons, not to the host rock.

Doug and I will be collecting galenas this season from the Cassiar district to expand and hopefully, clarify this distribution of isotopic values.

Canadä Encl.

Best regards,

Kenneth M. Dawson







