



Energy, Mines and
Resources Canada

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Your file Votre référence

Our file Notre référence

September 15, 1986

D. Aldrick
Geological Survey Branch
Ministry of Energy, Mines and
Petroleum Resources
Parliament Buildings
Victoria, British Columbia
V8V 1X4

Dear Dani:

It was good to see you and Ron in Victoria and to discuss the Sulphurets work. I understand that you had a good trip with members of the "Gold Working Group".

As we discussed in Victoria, Bruce Ballantyne and I plan on pursuing a comprehensive lithochemical study in the area in 1987, including components of silicate chemistry of intrusive and volcanic rocks and zonal distribution of metals and associated elements in the district. Presumably you and associates will concentrate on mapping, stratigraphy, structure and metallogenetic studies in the area. We will be most happy to have you involved in our lithochemical-dominated work and we are willing to contribute whatever we can to your mapping and related studies. Hopefully, both the MEMPR and GSC projects will go ahead and can be co-ordinated closely. These projects are more closely related than is normal for MEMPR and GSC work. However, I am optimistic that they will work and I am prepared to invest considerable effort to see that they succeed. Even though they will have to be justified and financed separately, from the working level I would prefer to see them as one large co-ordinated effort.

Don Harris has indicated that he is willing to do mineralogical work on samples that Bruce and I collect and he is either willing to do or arrange detailed mineralogical work on ore samples from the decline in the West Zone. Some of this work, including grain-size analysis, might be done at CANMET. Wherever it is performed it could have an important bearing on mineral beneficiation. I have just informed Norm Tribe of Don's willingness to work on samples from the area.

From our discussions you seemed to be uncertain where I had mapped previously. I have enclosed a copy of a 1:50,000-scale sketch map showing the approximate areas in which I have mapped and also an outline of the area that I think should be covered in 1987. This area is slightly larger than the area that you propose to cover but perhaps with our help you can cover this larger area. You can also appreciate that from my past experience in the area that I also have an interest in the stratigraphy and structure, although my memory is poor on many points. As I mentioned in Victoria I think that major faults are an important aspect

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Canada

Bruce's comments
pre-sending letter
petrochemical
Aspects of sample preparation, elemental association and analytical methods will be investigated this winter on samples which already collected. Hopefully these studies will be of benefit to design of a more comprehensive regional and detailed sampling program in 1987.

of the geology of this area. A concerted effort by all of us, including Bob Anderson, is going to be necessary to try to document the distribution and nature of these faults and the implications for exploration. We will have to collect fossils from as many localities as possible and attempt accurate radiometric dating of intrusions and unfossiliferous volcanic units. Since my work in the area in the early 60's I have been perplexed by the regional structure. If I can contribute to this aspect of the work I would like to help in whatever way possible.

When I was in Victoria I forgot to look at the old notebook that you and Vic located. Please send a list of what they are and I might obtain copies later. As I mentioned, I have no field maps or notes of my 1960 and 1966 work. I am uncertain about 1961 and will check my "deep" document files to see what field data I have. The working materials for my M.Sc. thesis could have been returned to Newmont.

I discussed with Bruce Taylor the possibility of stable isotope studies in the area but Bruce said that he would prefer to see what comes out of the geology first. Evidently you and he have discussed some stable isotope work on other properties in the Stewart area.

Bruce Ballantyne and I are in the process of having NTS sheets 104B/8 & 9 enlarged to a 1:10,000 scale and put on stable bases. We will have copies made for you and Dave Lefebure. In case you forgot I have not received copies of your Kitsault map yet. I have enclosed a copy of the map from my thesis, since you said that you didn't have one. Traverses this summer indicate that a couple of major faults in the Mitchell Glacier area must be added to this map.

You will note that I have sent copies of this letter to many people. The reason for this is that if anybody has concerns about the proposed work that they express them early so that the various concerns can be considered while planning the projects.

Very best regards,

Sincerely,

Encl.

R.V. Kirkham

cc.: R.G. Anderson
S.B. Ballantyne
J.M. Duke - Head, Mineral Deposits Subdivision
D.C. Findlay - Director, Mineral Resources Division
D.C. Harris
F.G. Hewett - Vice-President, Northair Group
D. Lefebure
R.E. Meyers - Cassiar Mining Corporation
H.K. Poulsen - Member, GSC Gold Working Group
W.R. Symth
N. Tribe

Bruce and I thank you for expediting the ordering of BC. air photos of the area. We have received them now and the quality of the enlargements is superb.