

J. G. Simpson

March 28, 1977

R. P. Hill

Shuswap Lead-Zinc Properties

I have read the reports by P. Levin on the Pingston Creek and Cottonbelt lead-zinc properties in the Shuswap Complex in southeastern B.C.

It is apparent from reading these reports that Dr. Levin has not grasped the fundamental elements of the regional structure of the Shuswap Complex, and hence in the brief visits he made to these two properties he did not recognise them in the field.

The sequence of deformational events in this area is now fairly well established (Fyles, 1970; McMillan, 1970; Hill, 1975) and consists of the following:

- Phase 1 Folds - large-scale recumbent isoclinal folds with generally north to northwest-trending axes;
- Phase 2 Folds - relatively smaller, recumbent, more open folding on generally westerly axes;
- Phase 3 Folds - large-scale open anticlinorium on north to northwesterly axis, followed or accompanied by congruent block-faulting.

In his report on the Pingston Creek area, the Phase Ia and Phase Ib folds described by Levin undoubtedly represent the Phase 3 anticlinorium, which dominates the structure of the whole eastern margin of the Shuswap Complex. The Phase IIa folds described by Levin are probably Phase 2 folds; since it is difficult to understand what is meant by "axes striking 60° west", the status of Levin's Phase IIb folds is in doubt. Levin's Phase III folds are probably regional Phase I, or possibly Phase 2.

In his report on the Cottonbelt area, the large overturned fold described by Levin is probably the keel of a regional Phase I fold. However, in his block-diagram construction, Levin has not allowed for refolding by Phase 2, which is likely to affect both gross outcrop pattern and structure at depth.

These comments are presented because, in the opinion of the writer, any future work in this area should involve very detailed mapping. Any drilling programme based upon Levin's reports could well be unsuccessful.

References:

- Fyles, J. T. (1970) Structure of the Shuswap Metamorphic Complex in the Jordan River area, northwest of Revelstoke, British Columbia. Geol. Assoc. Can.; Special Paper No. 6, pp. 87 - 98.
- Hill, R. P. (1975) Structural and Petrological Studies in the Shuswap Metamorphic Complex near Revelstoke, British Columbia. Unpub. M.Sc. thesis, U. of Calgary.
- MacMillan, W. J. (1970) West Flank, Frenchman's Cap gneiss dome, Shuswap Terrane, British Columbia. Geol. Assoc. Can.; Special Paper No. 6, pp. 99 - 106.

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R. P. Hill

RPH/cb

# METALLGESELLSCHAFT CANADA LIMITED

WESTERN EXPLORATION OFFICE

824-602 WEST HASTINGS ST. VANCOUVER, B.C. V6B 1P2 TELEPHONE: (604) 681-2167

December 3rd, 1976

Mr. R.A. FOWLER  
North American Life Assurance Company  
P.O. Box 40  
1051 Hazelwood Street  
Robson, B.C. V0G 1X0

Re: Upper Arrow Lake Zinc Property

Dear Sir:

Enclosed please find the report on the reconnaissance mapping on your Casey claims and the adjoining ground. Separately, a copy of the report will be sent to Mr. Merv Cusick. The report concludes that the mineralization is limited and thins out rapidly.

Referring to your question which claims to keep we suggest that you keep the Casey claims in good standing, because Zn mineralization occurs on these. According to our information the claims are in good standing to July 29th, 1977. In due time we will file as much work as possible as assessment work.

We thank you for considering Cyprus Anvil Mining Corporation and Metallgesellschaft Canada Limited as joint venture partners and for giving us the possibility to take a detailed look at your property. We are planning to continue the reconnaissance work in the summer, further to the west where snow prohibited work this year. If we find encouraging results outside your property, we would ask you to include the area into your claim holdings.

Yours very truly,

*F.-W. Wellmer*

(F.-W. Wellmer)

cc.: Mr. Cusick  
Dr. G. Simpson/Cyprus Anvil

October 6, 1976

Mr. R. A. Fowler  
North American Life Assurance Company  
P. O. Box 40  
1051 Hazelwood Street  
Robson, B.C. V0G 1X0

Dear Sir:

Re: Upper Arrow Lakes Zn Property

This is to confirm my discussion with yourself and Merv Cusick on behalf of Cyprus Anvil and Metallgesellschaft Canada Ltd. As agreed, we have set up a field party consisting of Bob Dickinson (Manager) and two young geologists, to map, and relocate and relog all existing boreholes on your Casey claims, with the idea of establishing the validity of a more extensive program on this and any favourable adjacent ground in 1977.

On our part, we will submit the results of this work to you and file as much as possible for assessment credits. We would request that, while this work is in progress and until at least the end of October 1976, you regard Cyprus and Metallgesellschaft as having an option of first refusal on the properties. If by 30th November we cannot reach a mutual agreement on an option, you would then be free to proceed with any other party.

Bob and his colleagues are a fine group of young people who have our complete confidence and I am sure they will impress you and Merv with their ability and will to get the job done.

Myself and Dr. Wellmer of Metallgesellschaft will be visiting the project in mid-October and we will look forward to meeting with you and Merv to put forward any proposals we might have.

We thank you for offering us the opportunity to take a good look at the property and hope that we can come up with something of interest for a future program.

Yours very truly,

CYPRUS ANVIL MINING CORPORATION

J. G. SIMPSON  
Exploration Manager

JGS/cb

c.c. Dr. F. Wellmer  
Mr. M. Cusick

R. A. Fowler  
P.O. Box 40, 1051 Hazelwood Street, Robson, B.C. V0G 1X0  
Telephone: 365-5583



LEADERS' CLUB

July 29, 1976.

RECEIVED  
AUG 3 - 1976

New File  
G.F.

G.S.C.  
Vernon,  
Cominc O

ARROW LAKE.

Cyprus Anvil Mining Corp.,  
330 - 355 Burrard St.,  
VANCOUVER, B. C.  
V6C 2G8

Dear Sirs:

We hold a large low grade zinc property on the  
Upper Arrow Lakes (Slocan Mining Division) that we  
would like to dispose of as it is too big for a  
small operator to open up.

It has had some diamond drilling done but needs  
some more exploration.

Mr. D. C. Malcolm of 2290 West 23rd, Vancouver,  
B. C., was the consulting geologist on the property  
and if you are at all interested you could contact  
him by phone, #731 7208, or by letter and he would  
be glad to give you full particulars.

Yours truly,

*R. A. Fowler*

*Revised*

1.) D.J. Carnahan. -

was Northwest Zinc Syndicate.

Doug. Malcomb

(AMAX TUSCOM)

Frank Huber

DAVE TAYLOR - Vanguard?

Asst.

