

Dep't of Geology  
Carleton University  
Ottawa, Ont.  
K1S 5B6  
February 6/73

000860

Paul M. Pettigrew  
C/o Anvil Mining Corp'n  
P.O. Box 1000  
Faro, Yukon Territory

Dear Paul:

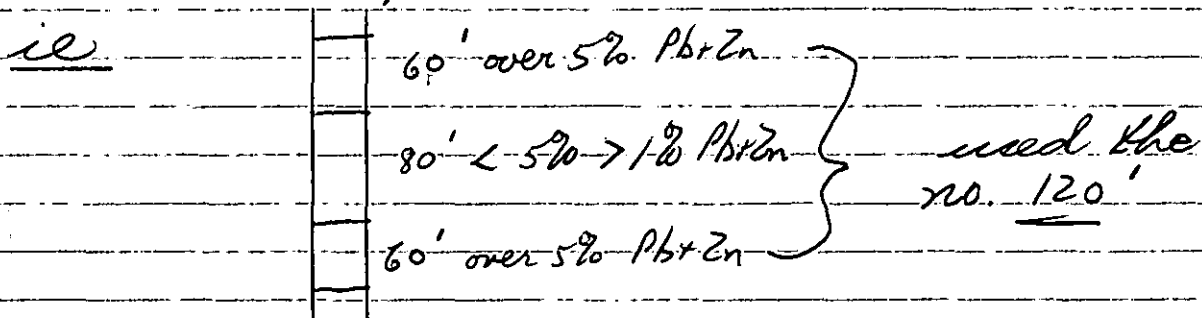
Hi! How is everything going? I hear that the weather has been a little kinder this year --- plenty of warm, sunny days. Tina and the kids are fine. Kathryn is growing fast and I think that she will be crawling shortly.

I have been plugging away at work here and am enclosing a few maps, sketches, Fairy Tales etc for your investigation. Also included are the complete set of brite analyses that I promised.

1) Fairy Tale one is an attempt to update (Sept/72) the outline of all known sulphides on a simple distinction of those holes intersecting massive sulphides and those that don't. This presentation is quite similar to Dave's older model but there are a few changes with the '72 drilling.

2) Fairy Tale Two is an isopach map of sulphide thicknesses using a sulphide intervals containing over 1% combined  $Pb+Zn$ . This presentation should be about the same as the one you showed me earlier but just includes a little more ground.

3) Fairy Tale 3 is an isopach map of sulphide thickness using a 5% combined Pb+Zn cutoff. The footages shown here in some cases are sums of 2 or 3 smaller intervals.



I made no attempt to average out the whole section, and in some cases the entire 200' may in fact give an average > 5% combined Pb+Zn.

However for the guts of the orebody the majority of the footage values would represent one continuous intersection of over 5% Pb+Zn.

4) Fairy, Fairy Tale 4 is an attempt to outline the massive pyrite areas. I have looked through all the drill logs + holes that I have relogged + your 1992 logs - reworked the sections and come up with this map. Again some of the footage totals are sums of 2 or 3 10-15 foot intervals of what I have considered to be massive pyrite + don't represent continuous zones.

However, as you well know, areas of massive pyrite in the centre of the deposit can be outlined for some distance.

On the whole I have found some of the old data hard to interpret but this is what I have come up with. I imagine that you have devised a somewhat more rigorous scheme for plating up this data but I wonder if you could ~~comment~~ comment on this data as to its accuracy under present conditions in the pit and from what you have found.

Do you have any assays for DDH's 70-16 /  
70-2 - they would add to the picture.

I would appreciate hearing your comments  
on any or all of these maps with regards to  
your opinion on their accuracy. I realize that  
the massive pyrite presentation is not really  
in a form that would be too helpful to you  
but I imagine you have already devised a method  
that suits your needs.

5) Also enclosed are the rest of the barite  
data that I have. Have you made any  
headway with your data yet? Could you send  
along a copy of the results if permitted?

Hope to hear from you soon.

Yours Truly  
John

Say hello to Patricia for us!



February 14, 1973

Mr. John Heslop  
Geology Department  
Carleton University  
Colonel By Drive  
Ottawa, Ontario K1S 5B6

Dear John:

Thank you very much for your recent letter and the very interesting data you enclosed. By way of reply on this material some locally generated data is enclosed.

- (1) A memorandum dated September 26, 1972 which gives some preliminary notions related to the massive pyrite. This is now a little obsolete as the pyrite unit(s) is (are) better defined on our revised cross-sections (q.v.).
- (2) A blue-line showing our new section labelling.
- (3) A copy of sections #22 and #113 showing our present (Faro-Fault-free) interpretation of the ore and the massive pyrite. All of the Zone 1 and 3 cross-sections have been thoroughly up-dated, edited and checked in terms of 5' intervals  $\geq$  5% Pb + Zn and 5' intervals of massive sulphides  $\leq$  5% Pb + Zn. The latter have been noted in the cross-sections as specialized dilution within the ore zone as distinct from schist and quartzite. This revised data has been incorporated into bench plans and thence into a new ore reserve for Zone 1. Zone 3 is still in progress.
- (4) Data from bulk samples made up as weighted averages from drill core material from 1972 holes.

Finally, a few points may be made:



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- (1) We have reason to believe that the pre-1972 assays for Zn are fairly consistently high.
- (2) A preliminary look at Zone 2 indicates little or no massive pyrite.
- (3) How representative is Section C (now #22) of the ore body? It seems that the sulphide zone has an en echelon configuration, thus on Section #113 it is in fact off to one side of the thickest sulphide interval (D.D.H. 72-7). Is there really such a thing as a representative section?

We hope that some of this material may be of some interest to you and that we hear from you soon.

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