



Province of  
British Columbia

Ministry of  
Energy, Mines and  
Petroleum Resources

# MEMORANDUM

To: Vic Preto, Manager,  
District Geology & Coal Resources,  
Victoria

2 April 1990

From: Ted Faulkner

Re: Mt. Milligan

= Herewith my thoughts on Mt. Milligan compared to other alkali-porphry Cu-Au deposits.

= More notable features of Mt. Milligan (and most quoted) would seem to be:

- ① both exogenic and endogenic mineralization present
- ② degree of Au enrichment
- ③ size of mineralized system

= Comments :

① - a possible transitional deposit between essentially exogenic (eg: QR) and essentially endogenic (eg: Mt. Polley) or it just happens that there is a favourable host rock sequence and late brecciation, alteration etc. of the intrusives to give a favourable intrusive as well?

② - the gold enrichment, often quoted, bothers me - for example:

Mt. Milligan	- inventory of 300Mt grading 0.0x oz/ton Au
(range of x typically	.5 to 3)
Mt. Polley	- inventory of 90Mt grading 0.0137 oz/ton Au
mineable	of 48.6Mt grading 0.017 oz/ton Au

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Hannover, 3.4.1990

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Dear Graham,

I agree with the time for our planned visit to the sites in July. I don't know how long you are going to stay in Tulameen and at the other complexes because on my way to B.C. I plan to make several stops in Toronto and Ottawa.

As my wife will come to Vancouver on July 25th I hope you can arrange the trips before that date so that I can join her in time.

Best regards



Torry Weiser

(2)

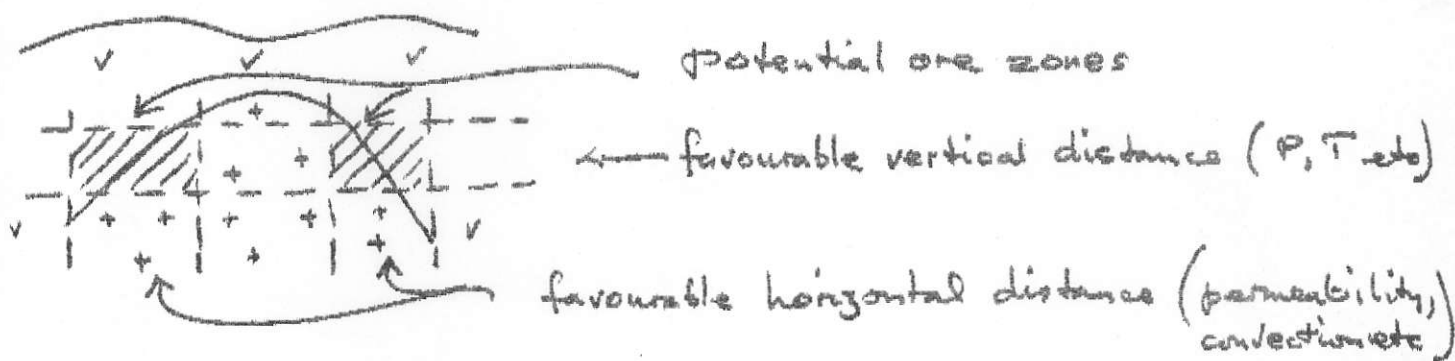
Question: is the gold content of Mt. Milligan exceptional or is it merely at the high end of a "normal" range for alkali porphyry deposits?

(3) - I've mentioned this before, but I believe the intrusive geometry may have something to do with the size.

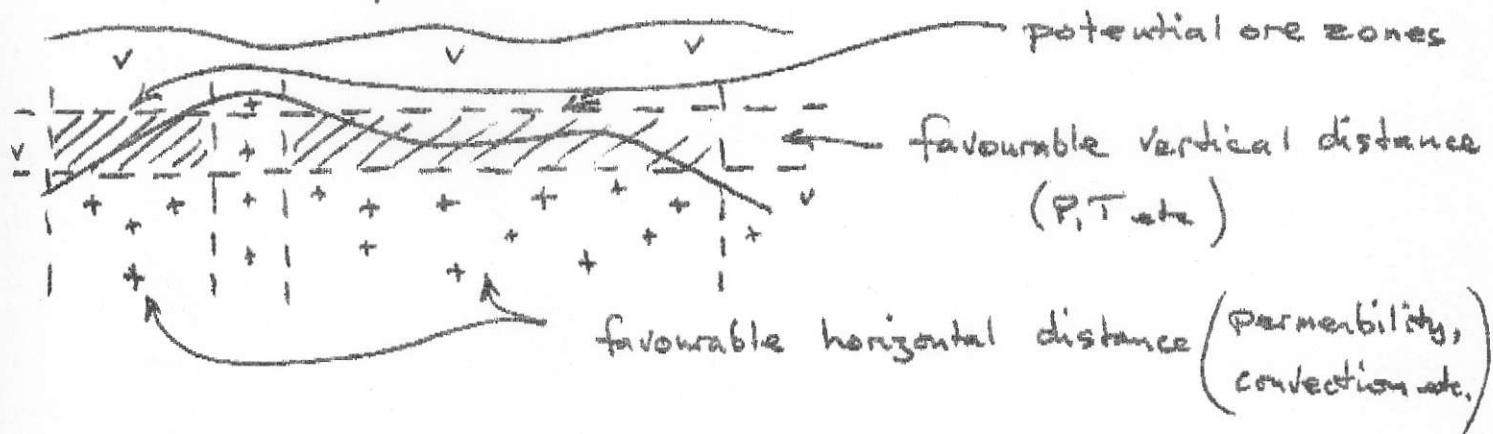
- I'm sure that most of the intrusives found in the mineralized area to date are parts of a shallowly buried larger intrusion, rather than discrete intrusions as Tom's notes state.

- This leads to the following cartoons:

OTHER DEPOSITS:



MT. MILLIGAN:



cheers,  
Red