

Q-73-6

Q74-2

Q-73-12

Q74-1

Q-73-13

Q-73-9

El. 470

at 0.15'

repl  
bio?

repl  
bio?

0.25% Cu

0.25% Cu

0.25% Cu

0.25% Cu

Reference Line

4750

4600

4500

4200

4000

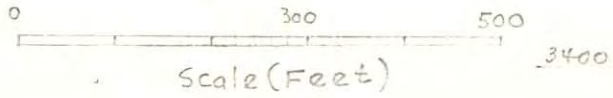
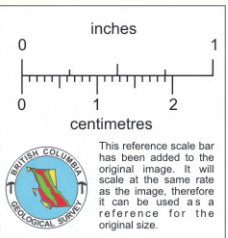
3800

3600

3400

CHLORITE

Vein, fr —  
pervasive —



013280

# Fish Lake

- ① Check all rx not yet checked for altn to geology
- ② Finalize interpretations
- ③ Thin Sections
- ④ Write Up

DIST'N OF :

CHLORITE

SECONDARY BIOTITE

FLAKEY SERICITE

EPIDOTE

SECTION A

SECTION B:

# ALTERATION

EPIDOTE

SERICITE

BIOTITE

CHLORITE

Secondary bio in fractures Section B

- ① Generally with chlorite.
- ② Occurs in areas fringing the 0.25 contour + in hole 73-3
- ③ Not generally <sup>present</sup> in zones of pervasive bio. actn.
- ④ Correln with chl distn + rock type

Pervasive biotite actn Section B

- ① Seems to form a zone roughly at the core of the deposit but has (apparent) a bottom and a top i.e. elliptical in the section.
- ② Little or no <sup>perv.</sup> bio on the east but hole 73-3 has perv. bio on the west, (with low grades)
- ③ Correln with rock type

Fracture Chlorite Section B

- ① Spottily distributed in zones fringing the 0.25 contour
- ② Best developed in the core of the deposit - IN The biotite hfls zone

Pervasive Chlorite Section B

- ① ~~Occurs~~ locally in the +.25 Cu zone
- ② Is spottily distributed in the "ore" and spotty but more common along its border ie it could be interpreted that ~~etc~~ pervasive chl is more abundant in the <.25 than the more than 0.25 zone.

## General

① Correlation of pervasive sericite with tan "bleached" zones is good. <sup>Sericite</sup> ~~that~~ mantles veins in all syn- & pre-ore rocks.

② Much pervasive biotite occurs in hornfelsed country rock but porphyritic zones (early ppy intrusives or ppytic veins) are locally hornfelsed. Hornfelsic altm overprinted (?) or related to intrusion of QFP(?)

## General

74-4 is very important in the altm scheme... it appears to be outside the zone of hornfelsing but check samples near the QFP carefully (QFP 400-500) and also the QFP sections in every hole should be checked for evidence of hornfelsing (i.e. pervasive potassic altm zone).

## SECTION B

### General Comments

- ① The highest grades of mineralization (> .35) 72-1 485-525 73-2 1122, 950-125 (7.4) tend to be in and adjacent to the <sup>perv.</sup> biotite zone - highest grade zone is below it.
- ② Highest grade zone in an area where ~~with~~ flakey sericite halos are fairly common.
- ③ Minor epidote seen in 73-3

## General

- ③ My gut feeling is that much of the early ppytic rock is volcanic extrusive or high level intrusive rocks - particularly striking <sup>are</sup> the areas with lg and ppytic zones in 74-4.
- ④ I suspect hornfelsing was much more important and widespread once. If you remove ppy of Type I, hornfels continues to depth in holes 73-11 <sup>and</sup> 73-10.

# Flakey Sericite

## Section B

① Spottily distributed in bio hfts zone

② Not confined to  $+0.25\%$  Cu zone

③ Sporadic areas of pervasive altn occur but no well-defined zone (mostly near the 0.25 isopleth).

④ Flakey ser on veins is sporadic in virtually all the holes <sup>outside</sup> ~~around~~ the bio. hfts zone is not a ~~good~~ bad indicator on larger-than-zone-scale

### Sericite

⑤ Correln with rock-type

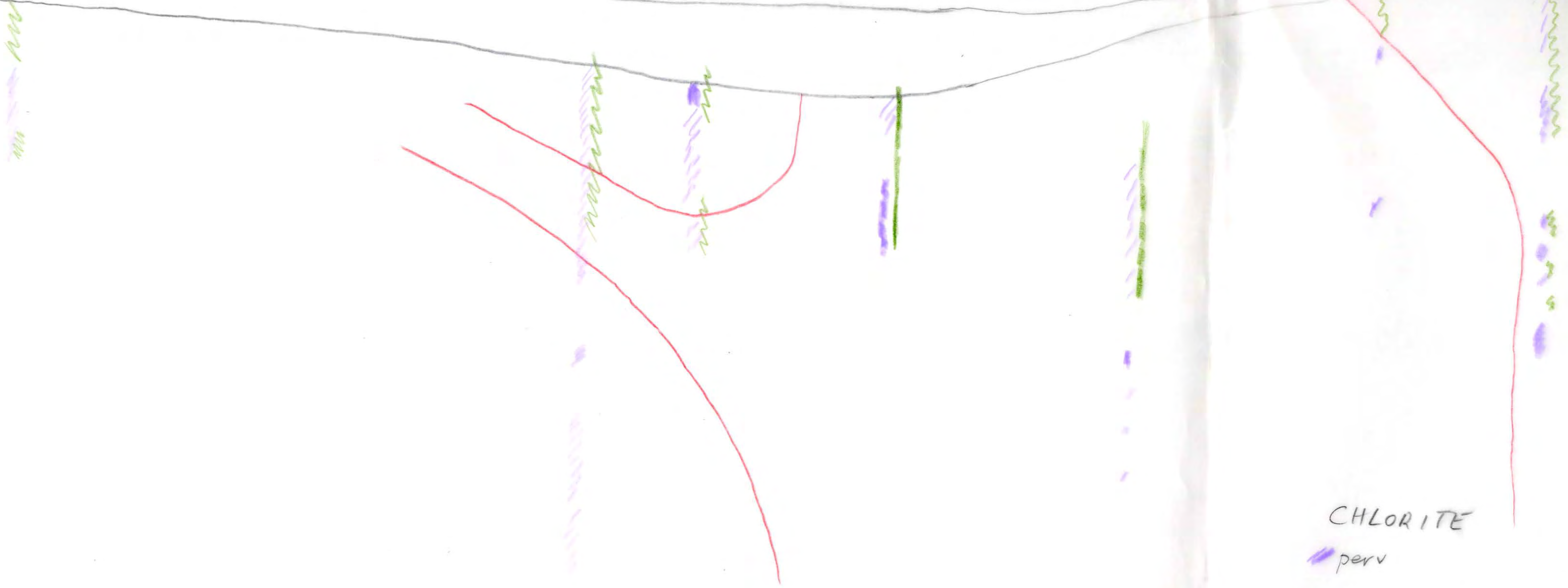
73-3

1 1

SECTION B

74-4

1 1



CHLORITE

perv

fract + vein



Q-73-3

Q-73-11

Q-73-1

Q-73-12

Q-73-10

Q-73-15

Q74-4

4750

El. 4750

4600

4400

4200

4000

3800

3600

3400

0.25% Cu

0.25% Cu

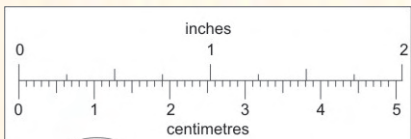
0.25% Cu

minor epidote on fr.

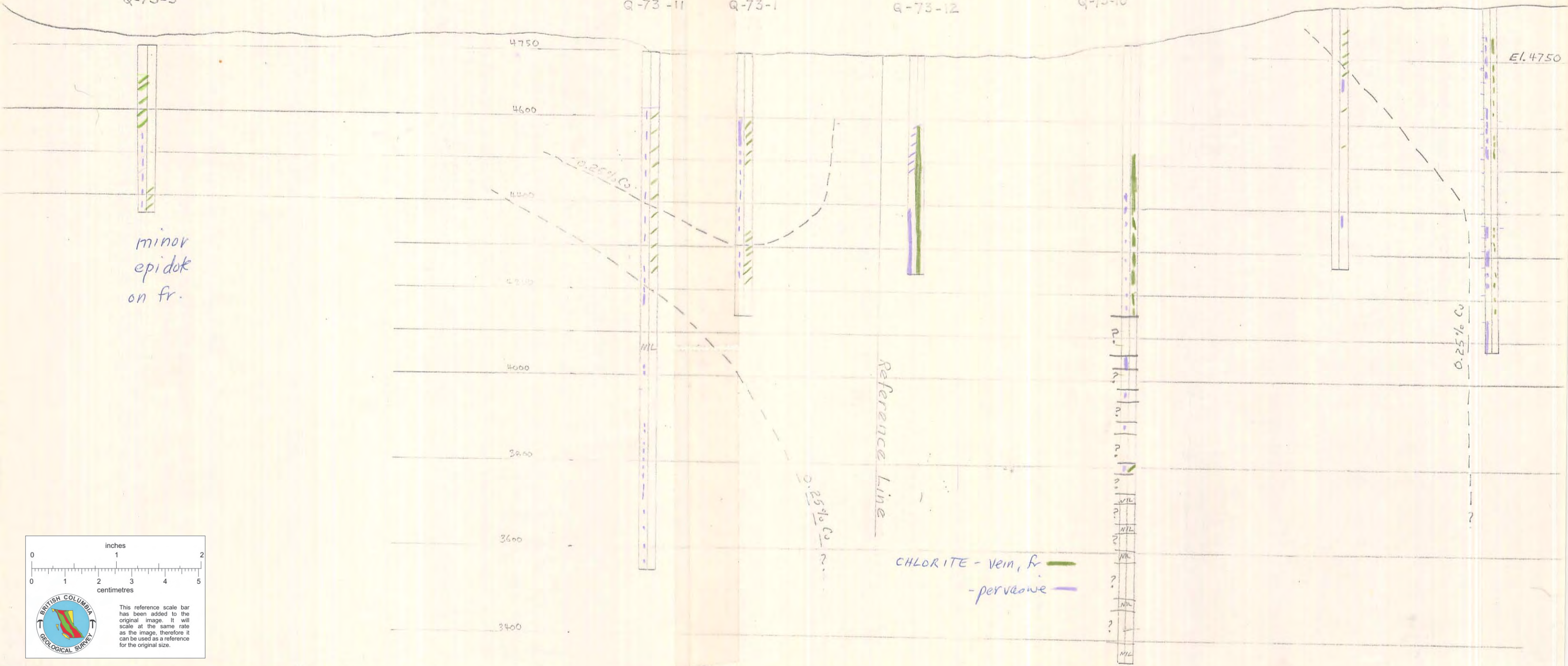
Reference Line

CHLORITE - vein, fr

- pervasive



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Q-73-3

Q-73-11

Q-73-1

Q-73-12

Q-73-10

Q-73-15

Q74-4

El. 4750

4750

4600

4400

4200

4000

3800

3600

3400

0.25% Co

post-ore  
dyke

0.25% Co

No 52

0.25% Co

SPHAL.

exotic?

Reference Line

SERICITE - Vein, fr sericite

- common local

SERICITE - pervasive

- common local

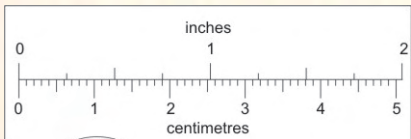
BIOTITE - Vein, fr controlled

pervasive altn

EPIDOTE

Mixed Hfs and Dykes throughout

Section B



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