

ALWIN (source Webb Cummings - telephone Dec. 6/72)  
457-6711

RE MINE SHUTDOWN

Reopening is contingent upon someone putting up more money  
and doing more development and exploration.

C.R. not as competent as expected so longhole  
stopping caused serious dilution problems i.e. expected grades in  
#3 zone to be 2.8% - ended up being 1.8 - also the stope  
caved right to surface!

submitted to replace old shear zones. photo

Ore zones - borders, where not fault bounded, are very sharp  
 - intensely ser. gd w. cpy → <sup>2cm wide band</sup> virtually barren sl. alt <sup>(bi → ser)</sup> <sup>over 1mm</sup> →  
 - color change dk green → yellowish

Faults - pre + post ore

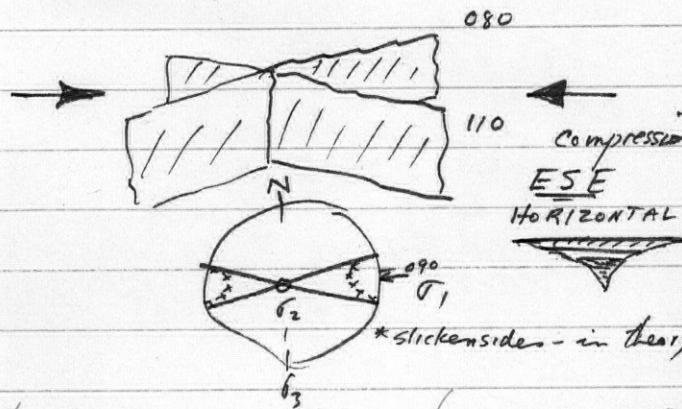
almost fresh gd (bi & fresh or chl) over a few mm

E-W early  
N-S later

- post ore-ore strike faults - sometimes continue after ore pinches out - may lead to new ore swell  
 - x cutting - offset ore  
 N, NNE mainly

Dominant Ore Trends

080  
110



in this case the ore splits - one branch 080 the other 110  
 #3 zone 4 sublevel

Ore zones pinch + swell, digitate - all zones in section  
 is all the zones.  
 plan + section

FLAKY SERICITE

#5 zone - old workings ore pinched out -  
 ore strike fault continues and leads to  
 another ore body

ALWIN

- 5-2W-1 ppy
- 5-2W-2 sericitized Bds
- 5-2W-3 Flaky ser + gtz + cpy + some och. hem  
 veins + dissem in alt zone #5 zone
- 5-2W-4 ~~ppp~~ c.a. ~~ppp~~ - to #5 ore zone (sample 3) transition in hand spec.
- 4-VENT. XC-5. Sheared Bsd w. sheared gtz - trematite?? veins NYLONITIZED??
- 4-3E-6 gtz - flaky ser - cpy ore - rich; cpy dissem + as veins #3 zone
- 4-3E-7 " " - cal - spec hem - cpy ore #3 zone - some bn.
- 4-3E-8 Trematite(?) specularite cpy bn sericite altered rock #3 zone
- 4-3B-9 ore zone / CR xtn zone #3B zone  
 mchly; minted; fresh 1cm  
 cpy, some bn ← sericitized, barren  
 flaky ser, almost barren
- 4-3B-10 gtz - ser - cpy - bn ore
- 4-4E-11 pale green alt fs, dissem pyrite cpy pods
- 4-4E-12 cg pinkish calcite vein with pyrite - edge of vein heavily  
 pyritized, sheared

Silver vein  
1575

✓ 4-3E massive epidote pods  
Dykes permatized

mylonite

grs in ore stressed

✓ late stage siderite (?) veins

Dykes in the workings are pervasively altered to fine sericite and calcite. Whether they are pre- or post-ore is not certain.

Thin section analysis has revealed that <sup>gangue</sup> quartz grains in the ore ~~are stressed~~ have been strained. The strain may date back to formation of these so-called "ore faults." Several post-ore faults have developed mylonite zones.