

(1)

NEVILLE CROSSBY INC
WILLOW B.C.
MCMANUS

SAMATOSUM

Thurs. Sept. 6/90

- non-union mine!

82M244

Sunny + 28°C
District 6, CIM

Tan Piwik - Geol.

- mining on B17 m bench (1217 m 'below')
- av. 6m width

- ore assoc. with highly sericified 'muddy' stuff
(still not sure on term - really a sediment)

- mine geol. call Samatosum a 'VEIN'
cf. Rea Gold = arsenic-gold rich M.S.

- ore has been thrust over itself

- ~4/m on expl'n tracing horizon

qtz. vein cuts across 'fit'

(~~no~~) chlorite zone in Fw (5m - 70m)

(cf. Kutchukok) - part of strat. column

pkgs; but direct correlation to qtz. vein
still uncertain

- Cr - fuchs.ite in bsf + also in
sels. (cf. Greens Ck.)

- 'chert' - primary at Rea (no exhalative)

- not really at Sam - more
silic.

- alt'n front along horizon

- barite as a vein both in HWTFW
(no direct assoc. with ore)

- hematite in veinlets

887345

~ 75,000 tons @ 150 to 200 g/t Ag

Stockpiled low grade.

- mafics have enough carbonate to be used as a neutralizer.

- talk with Bob Friesen - ^{ex-Geo} - mine geol.

- definitely a QUARTZ vein.

- sericitic rk. is really an intensely altered argillite (he has traced out laterally the transition).

- isoclinal folded qtz vein with axial plane parallel to schistosity.

- Barite veins carry base metals plus Au + Ag.

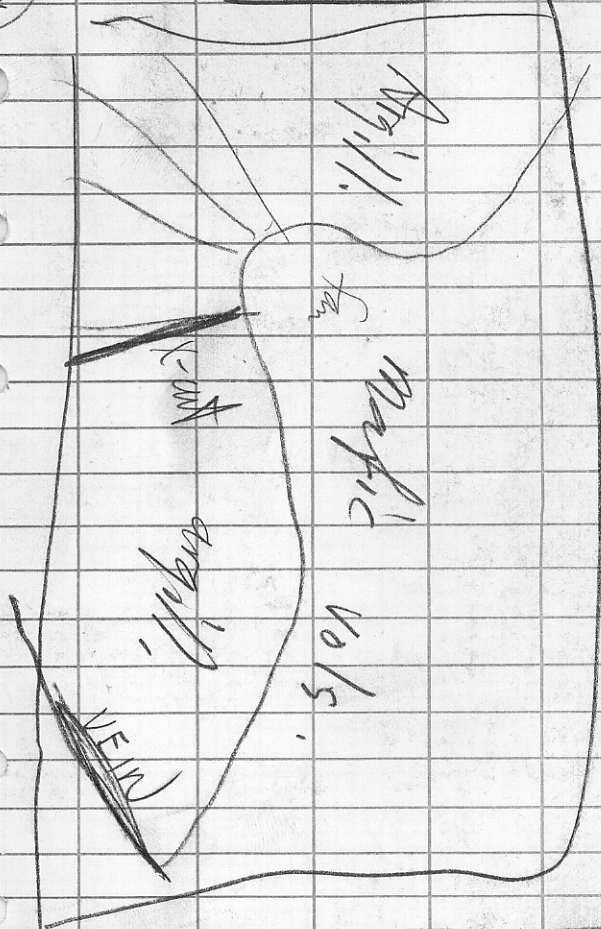
- Mine staff are doing good job on documentation, incl. photos as benches are mined.

- Sphalerite is dk. black.

- Excellent structural fabrics in sulphides.

SAMATOSUM

(2)



(25%) Japanese smelter purchases for Sb
 (75%) European (Belgium) pays for Sb
 — some so-called sericite is really muscovite
 + argillite.
 Recoveries
 Au > 80% Ag > 90%