

SD

MOSQUITO CK

87/8/21

Bruce Taylor / Sunny  
Undergrd / Francois Robit / Andre  
KirkReplacement ore  
f-c pyrite

'E veins - L to lin'n

'O' veins oblique to lin'n

Stop 2 Replacement ore cut

by vuggy gtz - carb veins

photo

\* NO signif offset

on struct FW of 1st

1st dips 55-65°

MOSQUITO CK

~~workings~~  
replacement  
on trend

Oblique veins

(photo)

Tectonized Lst

repl. ore

See talc dol

Some E veins have sphal  
rare galena

Question - is the 'replacement'  
really a vein?

veins have no alter halos

generally when in ls

qtz-carb veins that are

folded in the fol - rarely

carry sulphides - never sericite

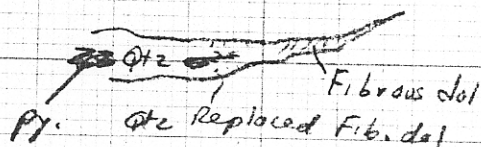
pyrite brg qtz veins may

have local sericite alter halos

E veins - Qtz Qtz Dol

Fibrous Dol some with sulphides

(Py  $\pm$  Sphal, gal)



Py - coarse porphyroblasts

are related to E-veins (even in CR)

- have qtz stream shadows

- albeit not all co py is

of that origin



○ Veins-Buel Qtz - sericite

blebs, py diss + blebs

contact bleached +

sericite locally

- not entirely post-deform

some folded slightly

Clearages S<sub>1</sub> + S<sub>2</sub>

some minerals syn deform

(S<sub>1</sub>)

Siderite porphyroblasts

seen locally - grow in S<sub>2</sub>

parallel fets

S<sub>1</sub> often down dropped normally

- age of repl. ore - how  
deformed?

- O veins seems to stop  
at ore but actually  
cross cut it



(photo)

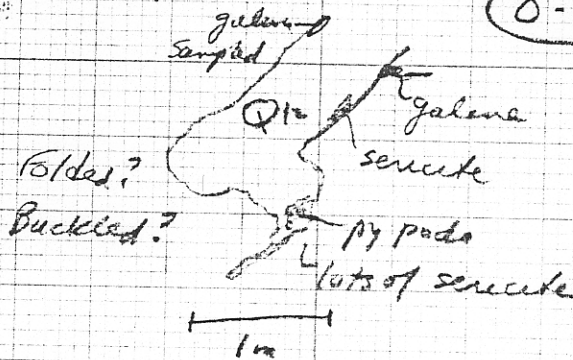
mess ore)  
+ q py.  
↑  
Lst

stickensides

52

\* Sample 2E stops still  
galena galena in O vein

(O-2E)



Further along

Looking up S1/S2 intersection

black graph col marble

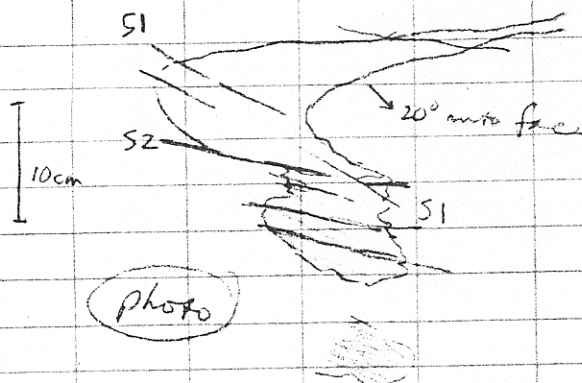
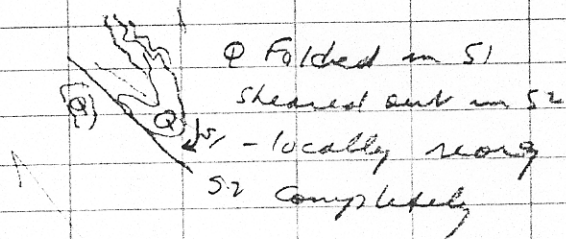
+ sericite dol (loc folia)

Fg replic ore as wispy  
disaggregated wisps. It  
was pulled apart during  
deformation

53

omitted  
by  
mistake

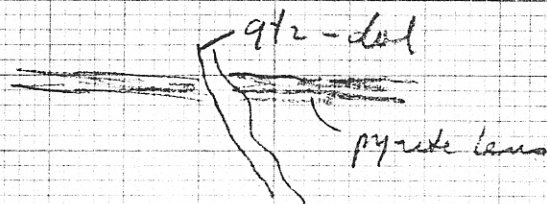
Replacement ore  
 - gives way along 'dip'  
 to areas of c.g. py -  
 reworked (on up-dip fingers  
 of the 'ore')





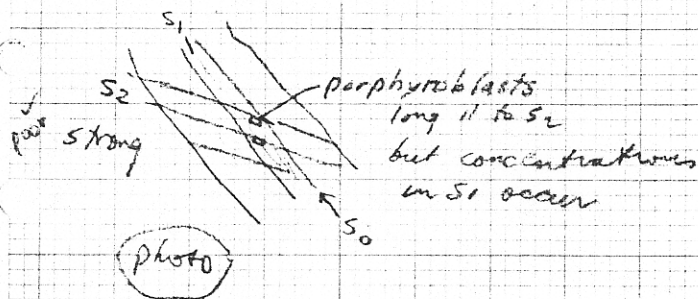
Last yr - Mined  
45000 T @  $\frac{1}{2}$  oz

Lst cut by E veins with  
apparently assoc repl.  
lenses (photo)



sample E-26 galena

Cosalite only in O veins



Replacement ore  
grain size of pyrite

controls grade

$f_g \sim 1.02$

$c_g \sim 0.0202$

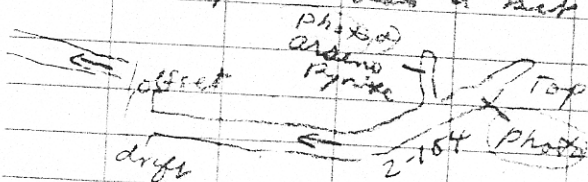
New stope 0.8 avg grade  
goes from surface to  
at least 3 levels

shape  
of  
stope



upward

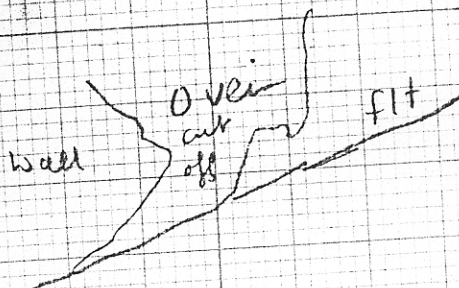
plunge varies a bit



CROSS fault offset  
the ore - 1m where  
we saw it (normal in  
this case)

photo (a) ~~pyrite~~ rock  
L5A ore

NEVILLE CROSSBY INC  
MANCHESTER, BC



old stope 2A

a P (parallel) vein -  
 Qtz sulphide (corroded  
 blebs) vein || to lineation

At the portal is a tuff  
 unit - lamellae of pyrrhotite  
 - leucosxene (ilmenite) brg