

Gibraltar East Pit - FOLIATION

Sept 2, 1998

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sunny, hot

2695

Δ 2735 bench, shovel shut-down
- high grade Sunset Zone #3
310-315

- cutoff is 0.18% Cu?

- host is a m.g. pl-gte-chlorite
tonalite - pervasive epidote and
some weak veins

- abundant ep, but only minor
pyrite

- should run better 0.20% Cu
(MR)

- strong linear foliation, stretching
ratio of 5:1? x-section shows
lots of chlorite, but breaks
along foliation, look more
sericite (shiny)

- MR - darker colour indicates
a good grade

- sulphides mainly as 5mm
or thinner fractures, also
have distinct fractures and
some diss

- mineralized veins appear to
lie in foliation

25a

G.B

- it darkens up, it is higher grade
- "good rule of thumb"
- fabric in rock would control fluids
- can overwhelm rock and leave qtz
- Poly area - ϕ environment
- H₂O fluids saturating rock and following foliation, deep, ductile environment
- changes fold sense
- G.B West - higher regime
- more dumping
- lower grade at more depth

Sawmill Zone - border phase
host

- core zone of tonalite
- leucocratic phase

26c

-epitaxial x-into foliation and
sulphide veinlets - no
selvedges noted on sulphide
veinlets

Photo 33 - spectacular chalcopyrite
with small piece with

#44 molybdenite on top
- contains chlorite
- like Gem qtz veins
north of mine which
carry higher Mo
and less Cu
- in Tronkermite

- qtz-ep-mo-chl veinlet possibly
associated with north-dipping
granulated shear with
rusty-brown staining

Photo 34 - qtz vein cutting roughly N60W

#45 irregular foliation
- ep in veinlet
- red pencil

Photo 35 - regular foliated high
grade with veinlets

#46 parallel to foliation
- ep rich, very minor
14

Photo 36 - smeared cp 16el
to foliation in
#47 sericite and chlorite
(green sericite?)
- red pencil

- can see epidote veinlet cutting
foliation and sulphide veinlets

Photo 37 - leucocratic "patch"
#48 of tonalite? - only
brassy, striated pyrite,
sericite - no mafics

- from large ~~in place~~ boulder,
in ore zone tonalite

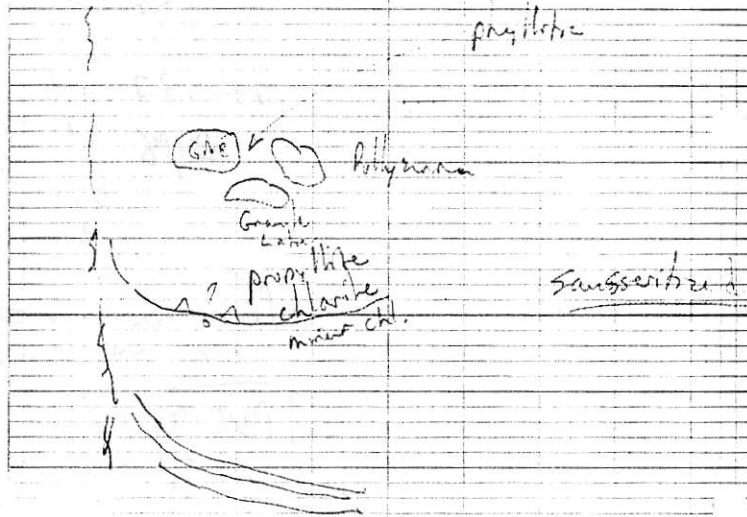
DVL 98.113

- a) good cp in foliated tonalite
- b) similar, good veinlet
- c) leucocratic pyrite only
patch in tonalite
- d) photo 36

lunch in core shack

DOI 90-15 Box 30 - split core

- sericite - carbonate den
produce poker-chip core



Comino focused on graphite
zone - good IP anomaly

Photo 1, 2 - Gib North core

very
dark

unmineralized, foliated,
epitaxial tonalite
trace py

#49

- dark ~~tonalite~~ tonalite
with dss. pyrite
plagioclase altered
to sericite (gray)
= "chlorite darkened"
tonalite

- gray intensely sericite
altered (tonalite?) with
quartz grains cut
by thin quartz veinlets
with ~~cp~~ loads of
cp and pyrite in
veinlets and matrix

- also
patite and
brown sph.

- "qtz-pyrite-sericite"
- some qtz veins "patches"
with sulphides
- in core looks a little
vein-like

Δ3

North of Tailings Lake

- trondjehamite - oligoclase
- perovskite ~~to~~ epidote -
cut dirty chlorite - qtz veins

Photo 3 → #50

44 dense rock to o/c of
pale green, fig. made volcanic,
some fragmental material,
interbedded ls^t rocks
deformed - some folding
- some ls^t fragments
- Jurassic age suggested?

Photo 4 - small plant with hairs
and a few rain drops

Photo 5 - qtz-chlorite veins (usually
abundant) within mafic
volcanic