

MM Claims

Compilation of notes from October 8 visit.

The trench is 26 metres long. It trends  $100^\circ$  relative to True North.

The west end of the trench can be located by:

① 42.5 m. from outcrop # 708 on bearing  $035^\circ$   
generally parallel to the stream  
o/c 708 on map by J. Mortensen (1979)

② it is also located 25 m. from the edge of MM Creek  
on bearing  $100^\circ$ .

The compressor was not working Oct 4-7. It was fixed on my trip in Oct 8. Therefore they had excavated the soil above o/c and s/c for the 26 m. length. In most cases along the trench the excavation was 0.5 - 2 feet deep and 2 feet wide. Because the baritic horizon was softer, it was excavated to a depth of about 4 feet.

The trench was mapped by chipping off the generally orange to rusty brown surface weathered coating and trying to classify the (hopefully) fresh rock. Foliation measurements and grab samples were secured at intervals (see enclosed descriptions).

Two areas of the trench were outlined for further excavation by blasting and mucking.

OCTOBER 8, 1987

MM Trench Visit

Traversing from W to E along the trench

0.0 m.

Dark green chloritic phyllite

Weathers to a dark rusty brown or orange. When exposed at the surface, it weathers to a silvery grey-white. The phyllite contains abundant pyrite as small disseminated grains.

Foliation 006/90

4.0 m.

Dark green chloritic phyllite

Similar to last station. It weathers to a very dark rusty brown. In addition to pyrite it contains dark greenish metallic grey, fine-grained sulphides (?)

Foliation 178/80W

Sulphide-rich interval is about 0.6 m thick

Sample Taken

8.5 m.

Dark green chloritic phyllite

Dark green phyllite with pale green, soft, micaceous patches and lenses. The phyllite is massive and homogeneous; it weathers to a bright orange brown. Foliation is not visible. Pyrite + sphalerite (?) occurs as fine-grained, irregular bands and lenses.

16.2 m.

Muscovite-chlorite phyllite

Pale green to silvery white, moderately soft phyllite. It weathers to a light orange-brown. The unit contains abundant disseminated fine pyrite grains. It is subcrop; it is not quite in place.

16.7 - 19.8 m. Baritic quartzite

light yellow-weathering, light grey baritic quartzite.

It is very soft with a sugary texture; it is heavier than typical rocks. In all pieces pyrite (?) grains are weathered out as disseminated holes. This unit is more deeply weathered than the enclosing phyllites. It is enclosed on both sides by light grey muscovite-chlorite phyllite.

Foliation 013/90

Foliation denoted by "banding" in quartzite

Samples Taken

22.0 m

Silvery cream muscovite-quartz phyllite  
light silvery cream muscovite-quartz phyllite. It weathers to a light brown.

Foliation 175/75E

Sample Taken

25.0 m.

Dark green chloritic phyllite  
Similar to phyllite at west end of trench. It weathers to a deep rust brown. It is homogeneous, massive.

Foliation 002/88E

MM. Claims

Compilation of notes from October 12 visit.

Two portions of the original "trench" were further excavated by drilling, blasting, and mucking. Intervals deepened were 4.3 - 10.3 m. and 15.3 - 22.5 m. as measured from the west edge of the original trench. The north edge of the trench was cut quite low in these intervals to allow ready access to the trench. Generally the north wall was only about 0.4 - 0.6 m high.

Detailed maps for these intervals are shown. Hand collected "channel" wall samples and grab samples were collected for the baritic trench (15.3 - 22.5 m). Please look at the samples - my descriptions were incomplete and tentative pending a more careful look at the samples. Only grab samples were collected for the chloritic phyllite trench (4.3 - 10.3 m.).

1 NOV 87

# NAA samples - 1987 Trenching

25m Phyllite  
well foliated and crumpled, folded folia  
brown weath, <sup>thinly</sup> banded, purplish grey, brown  
biotite muscovite schist - no sulphides

22.5m chlorite muscovite quartz phyllite  
planar foliation, parallel folia  
strongly foliated discontinuously banded grey <sup>and medium green</sup>  
phosphate musc biotite phyllite - to dissem py

22 m phyllite

lt green chl calcite phyllite - like SDO  
no sulphides - v. strongly foliated, planar folia  
with calcite laminae discont along folia

19.8-22.5 "87mm9"

Orange-tan dirt with chunks of off white  
baritic quartzite with minor mostly leached  
out pyrite

18.3-19.8 "87mm8"

as above but less orange color and more yellow  
smaller chunks

15.3 - 18.3 " 87mm 7 "

deep orange brown chips of  
kerolite ?

15.3m " 87mm 6 "

strongly banded biotite quartzite with  
5% pyrite minor sericite - looks  
like ribbon banded <sup>but 5% in mica bands not gte 200 part</sup> - most interesting  
Specimen - meta-cherty soil ???

(bands of gte 60 and  
gte 1 to 2  
can think  
highly  
folded  
and  
traced  
into  
S2

9.6m " 87mm 5 "

fine grained dark green weakly to  
moderately foliated homogeneous  
amphibole - some 2 direction fol

8.6m " 87mm 4 "

yellowish orange weather soil with rock  
fragments of white zircon? with minor  
sulphide

8.6m ~~87mm 3~~

light yellow brown weather, highly weather  
mass gte with leached out 5% - like  
fragments above.

8.5 m " 87MM3 "

amphib-!ite similar to 9.6m but a bit more sulphide and rusty weathering also has light green musc bearing patches

Calc sil?

8.1 m " 87MM2 "

Very rusty rock similar to above amphibolite

7.1 m

Augen textures usual green chl grt phyllite

4.0 m " 87MM1 "

v rusty sulphidic amphibolite(?) like 8.1 and 8.5 m - also piece of biotite quartzite

16.7-19.8

white biotite quartzite