

METRIC  
FIELD(S)

- basement to Nicola - Apex  
Man Complex - cherts,  
turbidites  
Frank Mine - most shallow  
water sediments

- 4 km square area of Toronto stock with Stern envelope
- Can see Toronto stock sills in hill to west
- Toronto stock intrudes 220m sediments and cut by Broomley Batholith (184 Ma)
- principally siltstone going to pyroxene
- old times focused on Cu (< 0.2% Cu?)
- Cu decreases and Au increases
- "Marble Line" - outer limit of Stern
- limestone ~~put~~ to mud into marble
- Billingsley camp in Peter 20 years of mining and were out of ore
- have to be within 70' of marble line to look for ore

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## Hedley

May 15/99

Gerry Pen

- Nicola Arc runs N-S - main ore lies to west
- shoshonites - Princeton
  - series of intrusions between Hedley and Princeton
  - the east is a sedimentary facies - age equivalent
  - back arc Carnian - Norian
  - uppermost Triassic
  - sedimentation from the east
  - gravity slide material - 16km <sup>approx</sup> west of Hedley
  - conglomerate
  - growth faults control sedimentation in mine
  - Main fault subject to map - Toronto stock below Mill Hill
  - ~~main~~ - main faults - (trachyte?) fine ash related to Nicola Arc to west
  - Train line followed a <sup>current</sup> power line zone, to mill

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Δ3 turn around - 40m from French mine -

Caill Ingression cutting  
sediments, bpx

P3 - "Pinto" rock - identified  
by minis  
- garnet replacing muscovite  
and muscovite in bitumen

- hydrothermal biotite - 870K

P4 - sill of Hedley intrusion  
(likely magnetic, f.s. than  
normal)  
- equivalent than Toronto stock

- never got garnet in contact with  
biotite

- several other stops

METRIC  
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① - barren - arsenopyrite

② - Hedleyite - Bi - telluride } more  
As - As } mistaken

③ pyrrhotite

- very reduced system  
- restricted garnets, pyroxene  
and pyrrhotite.

- ore associated with scapolite  
(bugged up feldspar)  
- silica-depleted - chlorite-rich  
- some isolated patches of  
scapolite away from ore

Δ4 Hedley Formation - Norman  
condonants - ore leading  
east just before enter  
traps - basis Michel

did not  
stop Δ2 Caill Hill - 1/2 hr - 1/2 hr - dead  
- 20 minutes from base of a slope

- turn left - go straight  
- o/c of Shoemaker and  
Old Tom - Harpers Ranch  
- turn in base to

30 minutes to park, 15 to spot

