

HIGHLAND VALLEY

to

May 17, 1999

Mike Cathro

9:08

A1 o/c of pillow basalts
in the Nicola Gp

9:44 large o/c on north side
of highway - Logan Road

10:00 Logan Lake

A2 Wick's Brook, Stop #4
- pull out to left at
top of hill

- Guelphon Bellisle

- pulled out Bill McMillan's
map- gave out copies of GAC
field guides for base - has
lots- younger phases are near
centre - Larrea Fault - ~~Went~~
and Highland Valley Fault

- few

JA - 200 mt

- couple of hundred of
metres

- done feasibility

- Highland Valley Cu
partnership

- late 50's Bethlehem ^{mine}
- 1960's & 1970's Larrea
- Cominco had Valley Cu property
& discovered Valley
- started milling Cu at
Bethlehem operation near
end of its life
- Larrea was biggest mill - 80,000
tonnes per day and
brought Highland Valley
down (to old 4000 tonnes)
- 50% Cominco
- 37% Rio Algom
- 13% Teck

Galty 70 mt 0.39% Cu

- can see including 10 mt 0.49% Cu
basalt oxide - have associated
specular hematite
oxide zone

- Craymont - big
- virtually no Au

- Cu (Mo) - no appreciable
gold

- Newer 50% of molybdenum
- in marginal phase of
Guelphon and Bethlehem - like
deposits

- west of Guelman get western facies of Uplak & includes felsic volcanics
- Red Hill - could be Tsiitika assemblage

Δ3 Overlook 11:00 am

90% ore from Valley

10% from Lornex

- mineralization is surprisingly uniform
- not many high grade pockets
- some areas with more siliceous alteration & moly
- green sericite alteration - large selvages
- silica flooding
- feldspar replaced by kaolinite
- left end of fault is highmont end (Teck)

Δ4

Lynch & Trucks

\$24,000 tons (250% discount)

1987 - 7 million dollars a year

on trees

\$24.65/hour for mechanic

Δ5

Craigmont

- matrix thins - said not related to Guelman
- Balliolite based on stable isotope
- magnetite & specular hematite
- 20 m³ 1% Cu?
- some eudarkon
- Gerry believes related to Guelman
- garnet strom - some pyroxene