

016389

- Mark Rebagliati

Intro: Bob Dickenson

- #7.1 m feasibility program / 200 ton bulk sample / 7 drills / 9 geol
- credit given to Dave Copeland
- 340,000 ft drilled (64 miles) - 47,000 Au + Cu assays (Min - En labs)

- Irving Baragar diagram = monzonites (alkaline)  
 = Takla volcs. (alkaline)

- 120 line km of IP 240 line km of total mag by Lloyd Geol.  
 = 10 sq. km. large sulphido system

- 5 monzonite plutons identified on map
- Volcs. - ands. tuff (+ trachytic), crse. fragments (+ hbl d)
- rx dip 30 to 85° E
- Latites: - ab, pyrox, phenox (+ lack of hbl)

base pyrox, & tuffs  
 Trachyte - flow banded flows  
 - bedded tuffs

MBX - inverted cone

- at depth - Rainbow Dyke becomes 'detached'
- deeper - stock thins + Dyke disappears.

Sec. 9800 N - good  
 9600 N - "  
 9400 N - "  
 9200 N - "  
 } Influence of Rainbow Fault

MINERALIZATION: Host - monzonites w assoc. intr. by

- stock fracturing plus very fr. gr. dissemin.
- adf. on E side of MBX = strong sec. bto. overprint by sec. kspar - followed by overprint of carbonate finally late calcite stringer.

MT. MILLIGAN

- (2)
- magnetite bx. on E side of MBX stock
  - ctse. gr. sul. adj to MBX stock (up to 0.5% Au + 0.6% Cu)
  - 2 albite pipes (centres low in Au; higher outer zones)
  - distwards from stock<sup>(ca. 100 to 200 m)</sup> - frac-rel. sul. decrease
  - pyrox → actinolite → calcite (in 'outside' latites)

bb Zone Min. - mainly intense propylitized volcs. incl. carb halo around py-ep veins

(ep, py)

Trachytes - py-chl (minor carb, ep) ← slow banding veins

(earlier see. biotite in fully)

- Free gold-in. py - also in microfracs in py

- assoc. with cpy grains (5 to 100 microns - Au)

METALLURGY: correlate data from 'majors'

- Lakefield: recovered Au - 86%

Cu - 88%

conv. bulk sulphide float without cyanide.

- Bond Work Index ~ 11

Est. ~ 50,000 tpd (geological)

MILLING: ~ 293 m tons @ 0.75% equiv.

a) Milligan 257 m tons @ .8 equiv = mineable

b) Southern Star 160 m tons @ .57 equiv

i.e. > 5 m oz Au 5 billion lbs of Cu

R > 400,000 oz Au/yr

Factor 1% Cu ≡ 1g Au

5

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## QUESTIONS

- ① Higher grade core for initial mining?  
- Yes - 2 ; i) Au-Cu in max zone, ii) Au-rich core in 66m  
- for yrs. 3-4 - mill feed well above av. grade
- ② Cu grade in concentrate / Au?  
24 to 25% plus Au - 2 opt
- ③ Prices used for calculations?  
Au - US\$ 400 ; Cu - US 90¢
- ④ Carbonate content of ex.?  
- acid drainage studies ongoing i.e. acid consuming
- ⑤ Where does all carbonate (calcite) come from?  
- equiv. of carbonate that is usually peripheral to standard calc-alkaline plutons

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⑥ Thank; Colin Spence (Rio Algom)  
- commended entire project!  
- "expl'n is alive + well in B.C."!