

- Mark Kebagliati

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-Fu labs)

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

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

- 5 monzonite plutons identified on prop.

- Volcs. - ands, full (+ trachytic), crse. fragments (4 hbl d) - rx dip 30 to 85° E

- Latites: - ab. pyrox, phenox (+ lack of hbl) base pyrox, xl tufts

Trachyte - flow banded flows - bedded tufts

MBX - inverted cone

- at depth - Rainbow Dyke becomes 'detached' - deeper - stock shrinks + 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. gn. dissem.

- adf. on E side of MBX = strong sec. bto. overprint by sec. kspars - followed by overprint of carbonate + finally late calcite stringers.

②

- magnetite bx. on E side of MBX stock
- ctse. gr. sul. adj to MBX stock (up to 0.5 opt Au + 0.6% Cu)
- 2 albite pipes (centres low in Au; higher outer zones)
- outwards from stock ^(ex. 100 to 200 m) - frac-rel. sul. decrease
- px -> actinolite -> calcite (in 'outside' latites)

bb Zone Min. - mainly intense propylitized volcs. incl. carb halo around px-ep veins ^{in full}

- Trachytes - py-dol (minor carb, ep) < slow banding veins

- Free gold-in. py - also in microfracs in py - assoc. with cpy grains (5 to 100 microns - Au)

METALLURGY: correlate data from 'majors'

- Lakefield - recoveries: Au - 86% Cu - 88% conv. bulk sulphide float without cyanide

- Bond Work Index ~ 11
 Est. ~ 50,000 tpd (geological)

MINING: ~ 293 m tons @ 0.75% equiv.
 a) Mt. Milligan 257 m ton @ .8 equiv = mineable
 i.e. 75% value in Au, 25% in Cu

b) Southern Star 160 m tons @ .57 equiv;
 i.e. > 5 m oz Au 5 billion lbs of Cu

c) > 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 66_{3m}
- 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

⑥ Thanks: Colin Spence (Rio Algom)

- commended entire project!
- "expl'n is alive + well in B.C."!