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James Doyle Sell Mining Collection

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Dick
Beane

1985 GSA



Planet
Deposit

Fe, Cu min at or above detachment ~ same as
Planet : chl - spec - cp - py - lga - d
Oxide : musc - gue - (chyr) - ba - cc
to later in high angle

Au < 10ppb in sulfide assemblage
Au > 1ppm in oxide
guelthreplacer chlorite

hydrothermal
chrysocolla

T_F early g₂ 280° - 300
g₂-chl-pec, ~ 240 - 260
late oxide 215

oxide fluids evolved independently
hi salinities
some hydrocarbons
mineralizing fluids = deep saline basins

mines generated in mid-Tert. basins.
lateral compaction at lateral edge

Au = leached
from upper
plate rocks

hif₂₂, NaCl = hi Au
sol

oxide fluids wAu
unconformable
chlorite