

TILKUM - Wayne Roberts

~ \$6m spent
 Total Est. ~ 280,000 oz contained gold ~ 15,000 oz annual
 - prod. in 1988 ~ 100 tpd
 - host rx. - rod pendant of Rosland Gp. vokes.
 - Slocan Gp metaseds.

Heino-Money Zone, Strebe Zone - av. .45 Au over 49 ft. (Trench)
 ~ 2000' x 6 ft. x 800 ft. deep

East Ridge 3000' x 100 to 200 x 200 ft. - ^{Reserve} 3 million @ .05

- diorite par. (2 to 5% dissem. px/po)
Mineralogy gtz, trem, clinoz, plag, biop, qtz, v.g.

incl. ZnS, PbS,
East Ridge Zone

- tested for heap leach

- oxidized top - then into sulphides
Heino-Money - in metavolcs

- drifting 2100 level plan
 - drifting in 4 levels

'85-'86: 3500 tons mined yielded ~ 3000 oz Au
 av. rec. grade = .85 Au

Strebe Zone
 35,000 tons @ .3
 Potential for 300,000 tons?

Drill Indicated Reserves: 200,000 tons containing 120,000 oz Au
 @ 0.6 oz/t Au
 stockpiled ore

1988 Plan - 100 tpd from lower level

Summary - spatial rel. to diorite par. sills,
 - Au with gtz, Mn-oxide + actinolite-chlorite

Sed. 9130

X

Gold Bearing Skarns Associated with Porphyry Systems/Esperanza
Gold Property, Southern B.C.

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r/a^R

High-grade gold mineralization was first discovered in 1981 in the Heino-Money gold zone. Exploration to date has defined 11 additional gold-silver zones associated with two northeast trending belts of porphyry sills and stocks. Six of the gold targets have been preliminary drill tested and two are being explored from underground.

The property is underlain by a sequence of Upper Paleozoic Milford Group volcano-sedimentary wackestones overlain by Triassic Rossland Group andesitic flows and tuffaceous siltstones. Intrusive into the above succession are stocks and sills of syenite to diorite porphyry. All units have been metamorphosed to lower greenschist facies and intruded by Cretaceous-age granodiorite of the Goat Canyon and Halifax Creek batholiths. Late Lamprophyre dyke swarms intrude Jurassic and older assemblages.

Gold occurs in calc-silicate-quartz skarns developed in massive andesite, andesitic tuffs and tuffaceous sedimentary rocks. The skarns are spatially related to the syeno-diorite porphyry sills and stocks. Within the skarns, free gold forms fine to coarse disseminated grains and fracture fillings in and along the walls of the quartz impregnations. Gold is contemporaneous with pyrrhotite, pyrite, sphalerite and galena mineralization. High grade Bonanza gold ore shoots are hosted within quartz-actinolite-chlorite facies.

At the Heino-Money deposit, gold mineralization has been defined in a near vertical skarn structure within andesite over a strike length of 2000 feet and vertical extent of 800 feet. Underground exploration along a 600 foot section has outlined a proven reserve of 60,000 ozs. gold within a drill indicated reserve of 200,000 tons grading 0.6 oz/ton gold. Production is planned in 1988. The East Ridge gold deposit occurs at the contact of a diorite