

TILLCUM - MT 82 F/MW-734

- high grade 'skarn'

Work - surface ddh + u/g drifting on 2130 level
(Money Drift) = disc. new high grade gold shoot
crosscutting Heino - Money zone + extending
Screamer shoot to depth within Heino - Money
zone.

- Screamer shoot at least 30.5 m deep = raise
u/g reserve definition + stockpile

Geol. - NG best associ with chlorite-sericite in skarn
between meta volc (ands-bst) + metabeds. (argillite)
- prev. published literature suggest a possible
spatial + genetic assoc. between skarn +
diorite sills; → I did not examine.

Heino-Money pit - 153 m x 1 to 7 m x ~~2~~ (av. 2.5 m)
x 161 m deep.

= Au-bearing, silic. calc silicate skarn,
strabound between metabst + metaargill.
skarn - charac. by pinkish-green to N. brownish
colour, often banded, with or without qtz. veinlets
→ generally assoc. with minor po, py, PbS, ZnS,
- 'swirling' texture indicates proximity to ore?
- assays very erratic.

→ lamprophyre dykes cut off ore.

Prod. 1985 - 58902 gm from 2902 tonnes of rock.
- 2267.5 dry tons grading 23.66 g/T gold shipped directly

- 2 -

~~T/LL/CUM (cont'd)~~

- for custom milling of Rankoe Mine (near Tereness)

- current custom milling - Robert Mines mill - Greenwood

TILLICUM

Nov. 13/86

Wayne Roberts

→ milled 1200 tons of ore with av. head
grade of 1.7 oz/ton Au or contained
02 Au.
ie. ~ \$1.2 million

→ Guston milled at Robert Mines mill
near Greenwood.

687-1658 - Esperanza -

Thur. 14 -

Cariboo Rd - Burton
($\sim \frac{1}{2}$ hr.)

Gust - Lloyd - Cariboo Rd.

Turn left to east

Chworth - mt.

pave \rightarrow gravel - left

Tillicum

200 yds,

left

'best' rd. - Tilly signs

1/2 mile δ - bridge

Wayne
Roberts

Aug. 1/86

Esperanza - 687-1658

Irene Wilson ✓

Wayne Roberts

John Brock.

Bernie Dewank
on-site

~~JH~~

Arr. Nakusp
Visit

14th

15th

+ overnight

Kuskaniax Lodge - Nakusp

265-3618

TILLCUM

- confirm with Esperanza on Fri. 8th.

TILLICUM

Thurs. Feb. 4/88

- Esperanza

John Brock

Min. = Jurassic age (Rossland - Op. volcs) ^{younger than} - good slides
meta-auds.

stann zone up to 60m wide

Au, Pb , PbS , ZnS , PbS
- some high grade baranica sheets
- qtz-tremolite stann

Geochem > 200ppm in soils

Geophys. - not used extensively
- some mag (po)

Prospecting - the tool!

defined in 80m strike defined over 600m total
Heun to depth of 90m (to 2112m)

Main Haulage 2050m

Total Reserves Level
~ 200,000 tons contains 120,000 oz Au

East Ridge Zone
3m tons @ .05 opt Au - 65% recovery in leaching
.15 opt - higher grade core zone

Strebe Zone - 8 dth g. .33 over 9m - around dip 60 to 70m
ii potent for 100,000 oz @ .25 plus

30,000 tpd @ 100 tpd \approx 20k oz Au/yr
- potential 1 to 300 tpd from Heino-Morey zone
35% Au in jig - rest = sulphide con.

Total Reserves \$ 6.3
280,000 oz drill indicated

Capital cost ~ \$3m
Oper cost \$184/ton

\$
317 Ozn/oz

+ 380,000 oz Expl'n potential
= 670,000 oz Au

MEG - TILICUM - 'U, late 180s Feb. 2/81

Wayne Roberts

Notes by: Tom Schroeter

Intro: Linda Thorsstad
Host Rx: Rosland Gp. (roof pendant) - corr. Lower Elise Fmn.

Intrusive R/O: Sup. diorite to syenite porphyries ('swarms')

② Nelson batholith - U. Jur - Cret.
- overprint of metam 1) regional - bip. 2) Contact - assoc. dykes + bio.

3) halos around major stocks (Nelson, etc.)
- 50-200 ft thick calc. ^{silicate} ~~dykes~~ ^{skarns} into meta basalts + tuff. sst.

(at least 4 sub-parallel branches recognized)
- diagen. Mn-garnets within diorite (= close to mineralization)

- Heino-Money Zone drilled to 600 ft. depth
- 200' high X 700' long - best shoot (shallow (~35°) dip to S)

- Heino-Money Zone: occurs near contact of Upper + Lower Elise Fmn.
- SiO₂, MnO, CaO, - good positive corr. (reg. with others)

- Trace Elements - increase Pb, Zn, Ag, Au, As-Zn correl. with Au
(Pb + Ag appears to be later or younger)

- East Ridge Zone: strike ^{NE} dips 40-50° W - lamprophyre dykes present.
50 to 200' thick (HW of diorite)

- high Mn content (rhochrosite, rhodonite?)
- more structural control, higher SiO₂ content

A zone 800 ft. depth; zones 'B' + 'C' in HW (en echelon?)
→ 3500' strike, 1200' depth

Interpretation: Heino-Money Zone slid down a fault (to west) from East Zone
Heino-Money Zone: 630,000 tons @ .34 (drill indicated + inferred)

1989 PLANS: focus on East Ridge; upgrade reserves to "drill indicated" (incl. 2 new drifts) ~\$3m more prior to feasibility

Total Reserves: 1.44 m tons @ .27 Au (Heino-Money + East Ridge)

Strebe Zone: depth to 600' strike > 500' ^{Av. 14 ft. thick} Good results! A similar to East Ridge Zone Values to 1.207 Au per 14'

METALLURGY

92% recovery, ^{conventional} concentrate mill

{ 35% - jig (native)
65% - concentrate

~ \$200/ton

- no deleterious elements
(esp. Bi, As, Sb)

- all Au in ~~native~~ native state
- later tetrahedrite + galena
- native Au contemporaneous with sulphides

QUESTIONS

① Total costs to date? ~ \$8 million
~ \$1.5 retrieved from 'production'

② How to sample? Screen size ~ -80 mesh
- really need to get 4/6
- need to crush entire sample

Thanx: Colin Godwin - Pb isotopes - Jur.
(intrusive origin)

→ Very 'entertaining' talk!