

① NICKEL PLATE (HEDLEY)

May 8/96

Sunny

+10°C

Note: Lots of fresh snow i.e. winter conditions

- Trygve Horn, Gerry Ray, Larry Jones, Mike Cathro, Jim Britten

- Photo: Looking W to mine

Dominic Bordin; Bill Wilkinson

- shut down of pit ~ mid-July

(will have been ⁹total prod. est. = 800,000 oz Au)

[Note: Can'ty skarn ^{open-pit} developed in white (K. Form) of Nickel Plate in Hedley/Stemwinder area]

diorite sills moved into package BEFORE fluids carrying gold.

(i.e. before skarnification). Sills also locally acted as a barrier (dam) to fluids (= local, high-grade) structures

- Min. at base of skarn

Dominic stated that "without older maps/data, the mine would not have gone back into production!"

→ Ron Britten (Van.)

⇒ TGS to request 'formal' letter. (i.e. Mike Cathro has NOT kept in close contact re - "Preservation of Geol. Materials")

Y2H/8 92HSE/49

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② - currently mining (last phase)
of North pit.

cut off = 0.035 ppt Au

Photos
Core
Rocks

~100 persons
(down from 200)
\$ 0.25 M. e. p. / 1/1
10/96

Photo: Looking S over North pit

- rx. dip to Hadley Valley @ 30°
Note: old u/s workings above bottom
of pit.

Note: Central Fault/Dyke system
(vertical) thru centre of bottom
of pit

- will mine 60 ft. more below
lowest working level.

- excellent (competent) steep pit walls.

- Bill Wilkinson looking at pt. of
tecline down from pit floor.

NICKEL PLATE

Apr. 21/92
May 1

GRANT MASCOT (HEDLEY)

①

- GAC - MDD field trip

- John Lovering - Mine Manager chief
Dominic Bordin talk Don Parsons - Engineer

Bill Wilkinson - Mine Geol. - accident

- Candy mined out last month \rightarrow ~ 25 million
 $\sim 60,000$ oz from ~ 900 million tonnes in 1.5 yrs
(hosted by Whistle Ck. Fmn.)

- Pre-strip for Stage 3, at Nickel Plate - est. cost \sim 320/oz

- Stage 4 to come (if gold price stays up + Comstar/Homes take merger, doesn't complicate)
 \rightarrow mine life - 1995

Reserves (~ 37 m tons of ore to move
 \rightarrow + ~ 5 m tons of ore @ .07 opt Au)
Otherwise - will close next yr.

\rightarrow main mine host = Hedley Fmn.

Gold Recovery = 85%

Cut-off = 0.035 opt Au

- mixing some oxide ore with Candy ore

Fall '91 - 10,000 ft of ddh to prove up additional reserves

Diorite - 90% 'barren', but when arsenopy. present - it runs.

'Gains' in ^{tons} grade t/for ounces ad's, to veins (previously mined) (eq. up to 25%)

'CP' approach = Conditional probability model

→ compare with 'Geological' reserve
→ Then average the two!

Milling rate ~ 3600 tpd

Problem at start-up - wrong method of ore reserve calc. (ie. inverse kriging) and "Henry Ewanchuk"

SO₂ air process

Several photos 1) North Pit 2) South Pit

CANTY - pit - potential in wall to left (west).

- poor pit design - had to leave ore in wall & floor

① HEDLEY June 24/86
- Mascot Gold Mines (MGM) Sunny, 30°C

- Lorne Sivertson, Ron Smyth, Al Clark,
Greg McKillop, TGS, Bruce McRae,
Gerry Ray, Garnet Dawson, Ian Webster
Ron Simpson, Dave Row, Paul, Hank Ewan
Hedleyite (BiTe)

Cobalt - cobaltite + 2 others
substitution for gerdorvsite
(Ni, As S) - assoc. with
arsenopy - pyrrhotite

9:1 strip ratio
~125-150 people during operation

\$68m capital cost

AGES Host Rocks (Volc-Sed) = U.R.
(Norian) - conodonts
Diorite sills - ? - Gerry Ray

Axinite (190 K-Ar)
Nicola equiv.

LEVEL (S) Ag values are low i.e. .04 oz/t

Sig. folding incl. overturned
- limbs traced 6 km with
marker - boulder cgl.

'silica cap' = silic. stain (chert)
(not genetic) - up to 60%
Kspar

Ore level above Summit side 1st.
(ie ~500 ft) - Norman

Metamorphism post-dates sills
+ mineralization

Sills av. 40 ft.

Merill-Crowe milling system
(i no problem with arsenic)

recovery ~ 88%

Electrum replaces ...

- Niccolite in gersdorffite
Native gold, bismuth, sphalerite
- pyrrhite, tetrahedrite + rare galena,
MoS₂

② MINERALOGY

arsenopy + mag

↓
cpy ZnS

↓
tetra, elec. pbs

MGM
92-822H

150-190 Ma 'collision' of rx.
from NW-SE

Copperfield bx. - marker between
lower sed. tuffaceous rx + Sunnyside ls
and overlying tuffaceous rx
(no ls.)

- up to 300m thick on south
side of Similkameen R; down to 10m
= debris flow

tremolite 'halo' around ore zones
(G.A.)

LEVEL (S)

[OVER]

R.D. PENFALL LTD. MADE IN VANCOUVER, CANADA
DUKSBK WATERPROOF

Similkameen granite - 150 ma
(post mineral/tectonic)

Photo

- Diorite sills (brown) - a cliff
face (from Hwy.)
- skarn + 1st (lower) sequence

Photo - Looking northerly over
Hedley / (Peggie prospect to left)

Reserves ~ 7 m tons @ .150 g/t Au
at 0.04 to 0.05 cut-off

- only assay for Au - except when intersect
high sulphide (py) zone

③ HEDLEY AREA, June 25/86

- GR, GM, AS, TGS, AC, Larry Dyer (Chevron) Sunny, 30°C

① PEGGY - access by rd.

assembly - py - cpy + vuggy gtz,
- above - good view of assay lab
perched on Nickle Plate Mtn.

~~FRENCH MINE - access by rd. (km 6)~~

~~Slide Bx (col.) with marble frags
in diopsidic skarn matrix - at
contact with Simil. Gd.~~

Slide Bx. - mafic frag. with
diopside reaction rim.

brown = garnet
white = calcite (marble)

(fibrous wollastonite nearby)
Slide, white, fibrous wollastonite
with 'lavender' axinite (left)

(OVER)

LEVEL (S)

R. D. PENHALL LTD. MADE IN VANCOUVER, CANADA
DUKSBARK-WATERPROOF

good 'typical' brownish garnet
skarn with bornite - $\text{cpx} - \text{MoS}_2$

Chevron

① Option (50%) of Bear-Toten
(only) to North American Metals
(Breakwater crew) \$9m over 3 yrs.
- u/g planned (= cash flow)

② Mess Ck area (+ BAM - Chris)
- intrigued by Au + tetrahedrite

(4)

BANBURY

June 26/86

- Gavin Dizon

- 5 1/2 holes to date (1/2 this yr)

- Native Au - arsenopy - ZnS assoc.

↑ with qtz, staurolite in QM,
at contact with limey argill.
+ 1st. bx.

- 2 main veins (past prod. ~ '30's)

- structurally complex.
eg. isoclinal folding

- Some skarn

invitation to visit

Note native gold not prev.
identified.

R. D. PENHALL LTD., MADE IN VANCOUVER, CANADA
DUKSBAR WATERPROOF

MT. RIORDAN

Tues. Aug. 4/87

Sunny 26°C

- with Gerry Ray, Rick Meyers, Cathy Lind
- large 'new' area of WO₃-skarn on 'old' Apex ski area.
- Scheelite, po, py, bn, cpy, woll., gn. - whole top of hill.
- Conflict with 'park'
- all staked by cts.

Ref. GEM - 1953, A 107
Billie's Grant

Stop 1 SW flank - stop along rd.
- SKARN - Magnetite, cpy, gnt, schal.

PHOTOS - Looking E over old pits
+ towards APEX ski.

PHOTO - Looking SW towards HEDLEY
MINE from top of Mt. Riordan.
- Nickel Plate 1k. to cts.