

93A12W
93A121

QR

Thur. Aug. 18/05
Sun/Cloud

- with Bob Lane (+ Jenny)
- Lloyd Penner on site (only one!)
- 2005 adh ~ 49-58 [Note: all car moved & restacked SW of Main zone/kamp/mill]

U/G on Midwest zone - spiral decline down to 965 level (~25,000 tonnes of ore ready)

- dewatered for future production in '05
- No other 'recent' signs of readying for production

- Appears mine probably won't re-open 'till next Spring/Summer

Need to construct ~30-km power line to property from Gavin Lk. Substn.

- Cross Lk. 'brass' in Victoria recently (no info on outcome)

- Plan to open pit Northwest zone, then West zone pit & drive decline N from bottom of pit to underneath flooded pit.

- Ultimately drive adit into North zone (under mill site)

[Note: Pete Fox (Aug. 20/05 on site visit) believes there's excellent potential for the in-favourable strat. rx.]

Fri. Nov. 12/94

Q R

Houdy
00c

- Rick Kemp - go on site
- courtesy of Gross Lake
(Gard Keen) + Jim Miller-Tail
- [Free Return flight from Van → PQ]

- Take Minister Pat Bell + Dr.
John Wilson (MLA) (Quebec) to site
(+ Ministerial Assistant Jerry Muir)

- Just (re-) started drilling on
North zone (Boisvein Drilling)

→ 5-6 weeks to get mill running

→ Contract mining (ex. North Amer.
Construction)
+ Milling

- HyA 12: connect to grid ~ \$1.5 - \$1.9m
- ~ 50 full time employees

(OVER)

Cross Lk. - No detn on!

LL, Kneb, Was:

(deferred to 2005!) Jim

①

QR

Tue. Aug. 703
Cloud, smoke
+25°C

- with Bob Lane

- Jim Miller-Tait (+ son, Matthew)
(+ Frank Callaghan)

Photo - Look W. over Main Zone
over mid-west zone

Photo - Look S to MA. Valley
(over South Lobe, North zone)

Photo - Look N over North zone
(4½ benches) - North Lobe

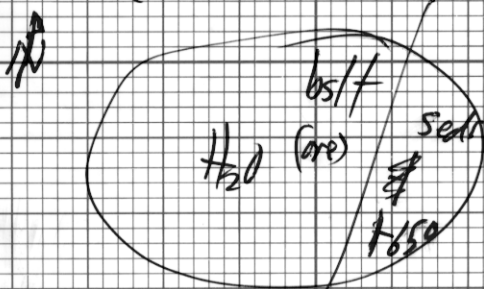


Photo 2003 Trench on South Lobe
of North Zone - reeds sampling

Photo - Look W towards mill site
(note: blue drill shack imaged above
North zone target)

Photo Look East over Main Zone (Hatched)

2) CONFIDENTIAL

Greg Gilstrom dit

43-101 Resource

2 1/2 - 3 yrs. we feed ID.

~\$1.5M to bring power (line) across river from south.

- adit (decline ~600m) to access North zone at depth (~200,000 oz target)

cf. Mid West zone (pit + w/o)

3 mos. mill feed

~80,000 oz target

(pump water out + mine out)

Northwest zone (found in 1998 when Khoros closing)

Bugs mill feed 'ready'

(strip off from surface)

Need av. 1.07 g/t Au open pit to run the mill.

ore on property

110°/60°S

will pump water out of main zone pit to 100' lobe on side of pit (south side)

800m decline @ -15° to access North zone (mill @ 1100m)

Photo - look SW over Quesnel River from 'above' proposed adit (steep!)

METRIC FIELD (S)

R.D. PENHALL LTD. MADE IN VANCOUVER, CANADA
DUES: WATERPROOF

③

QR

Aug. 7/03

est. ~ \$2.5M (all-in) to restart
+ ~ \$1.5M for (new) power ^{~12km l. l. e}

Total ~ \$5M (cap. cost)

est. ~ 6 mos. to re-open

North Zone - use hoist to
raise (rather than need access
rd. to portal) people only.

Meeting set up near end of
August between Cross Lk/Gold Band
+ Kinross + Gov't to 'finalize'
reclamation bond (eq. \$800K)
[need to gain 'control' of entire project]
_{ie. ownership}

- possibility of processing (ie. to do)
Bonanza Ledge bulk sample?

3. MS. left in 7th line and
(room to expand if/when necessary)

QR

Oct. 1/96 Sunny, clear
+12°C

9-11am

- Jim Fortin (Greg Gilston)

- with BHP - BC Mine Tour (15)

- added ~ 8m of resources
(expanded to West zone
(water well discovery))

- 1 dth of Hillside zone

- intrusion mapped further to east
- best nr. adj. to dykes ↑Current Reserves

1.2 MT @ 4.2 g/t Au

adds to
expl'n pot.

1200 TPD - milling

Au recovery ~ 91%

West Zone: Au:Ag = 10:1

(recovery ~ 30% of Ag overall)

WEST ZONE18,000 @ 5.6 g/t Au mined from 2nd
Bench in West Zone pit (1020 m bench)

- are at contact of sed & Volcs.

Will only take total of 4 benches
in West Zone — then go u/c
after 9 g/t Au

Main Zone

980 → 950m
(current)

(1)

QR

June 19/96

Sunny + 19°C

Tom Colbourne mining

James Fortin - mine geol.

Greg Gilston

Bob Lane - PG

196 Budget: \$0.5M (as much as #2M, if increased) - expl'n geol.

Hillside anomaly - east side of

Wally's Fault (steep slope down to Quesnel R.) - south of Main pit

2 ddh on top of hillside (in '95)

1 ddh in 196. (500m)

- near parallel (down) to slope @ -45°

Midwest Zone: 5 ddh ~~at~~ near surface

West Zone - 4 ddh (to prove up reserve) in '96
(not much joy) to west

"West of West Zone" anomaly 2 ddh
(in SST) move in 1996 to

"West anomaly" (immed. N of)

"North Zone" offset main zone

- 6 ddh (to east)

(Note: in '95 - drilled 3 deep ddh to NE)

10 ddh in "West Zone"

→ 500m u/g ddh from u/g in First Phase 1996

② Maude cl. - test sst/vok. contact @ 0.5m
- 2 ddh - [km 25] [note: incl. in 0.5m]

General 150-300m - min. away from intrusion
(best when sst/vok. contact within)

1996: [Total: 27 ddh ~ 5300m] @ 0.5m

Mine Life: 3 yrs.

- mfg to 1200 TPD → up to 150-1400
Ore: > 1.59 g/t Au 0.04% apt ^{planned}
Low Grade: > 0.99 g/t Au 0.029 apt
Low-Low Grade > 0.29 g/t Au 0.0085 apt
Waste < 0.3 g/t Au 0.0088 apt

80,000 t @ 1.2 g/t Au stockpile

- No leaching

- Gravity - 20-25%

(later 10% thru cyanide milline)

- 4500 tonnes milled from ^{oxidized} "Wet Zone"
@ 9.5 g/t Au ⇒ est. 40,000 gms

(much more po of py) + minor qp.
- also arsenopyrite

(3) Main pit - 1 yr. left close Dec
mid-winter
- mine crown pillar (4 benches)
from open pit on West zone $\approx 20m$

est. 6 wks to reach min. zone
(Mid-West zone) Nov./Dec.?

4/6 cut-off = 2.5 g/t Au

4/6 equip. from Goldstream (Grey from Goldstream)

13 to 14% increase (above) in grade

Photo - look E over 1st lake on
Hilltop zone - Quesnel R in background
(Olympic drilling)

Photo - HW (above) - bedded sst.
(above contact with volcs/apite)

ORE - mainly $po + py + cpy + \underline{arsenopy}$

- doubles of West Zone (for Bob)

1996 Prod. target = 44,000 oz Au
but will be lucky to get 40,000
(severe winter, mill down to 700 TPD in spring)

④ Est. \$800,000 repairs
needed for mill
(equip. worn out/rotted)

Kinross actively looking for
expl'n projects. Also looking
to hire Univ. geol. student
for summer.

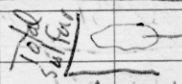
- Kinross mgt 'keen' on
spending \$ on expl'n (write-offs)

'Ubiquitous' presence of hbl'd
por. dikes & sills (Main and
West zones) within skarn &
near ssf/volc. contact

Main zone skarn dips to N
@ 50° (i.e. towards tailings pond)

West Zone = tabular body, 400m ~~long~~ long.
(800m west of main zone) 'Manto'

Q: Any bismuth in this zone?

SF plotted  quite a range
(not tight pattern)

An(git)

- will try to incorporate Cu content

①

QR - Kinross Gold

Sept. 27/95

+15°C

Cloudy
Sunny

- Jim Fortin, mine geol.
- with Wojdak, Lane, Macdonald

Tom Colbourne - Mine Superintendent
Bill Muir - Mill

Jason McKenzie - Mine Manager
(ex - Con Mine, Veldhoven)

#150k ^{deep (500m)} ^{plus 2 holes, 750m west}
Expl'n ^{East zone} ^{300m = 2000 - 2500m} ^{drive}
= on east end (east of wall) - no camp
target = main zone at depth (500m) ^{at elev. 650m}

30% of feed (gravity) = CRP gold
(much more than expected)

Main zone
cut-off lowered to 1.6 g/t Au

av. gr. = 4 g/t Au

100K tonnes added ^{total ounces = same}

Milling = 1000 tpd (cf. 800 tpd)

Current Mining - Main Zone

Feasibility of heap leaching

0.5 g/t Au = low-low grade ^{stackpile}
1 g/t Au = low grade ^(700 to 800 tonnes)

- est 72% recovery

② - grad geometry for leaching (cf. Golden Bear)

MDC meeting - Thurs. 28th

- 'area of disturbance'

Next yr - ^{summer} 1/4 a from ^{Mid-West} ~~the~~ ~~area~~
~ 200 m ~~camp~~ ^{at 150%} into ore
portal outside Manzan

- open pit - West Zone

Workforce (on site): ~ 25 (44 total
8 days in / 8 out - ^{kinross} ^{site} + 25

North Amer. Contract (P.L. ^{at 100%})
Contractors = [50 total]

'Propylite' (vs. propylitic bs/t)

Main Zone: - in propylite +
carbonate 'front' in bs/t

- strat. dip to S

- min. dips N.

FW = 55 ft

HW = 65 ft

- min. ~ 100 to 50 m from stock center

③

QR

Mid West + West zones: min. more
in siltstone/sst contact
(cf. Main zone)

Wally's fault - dip to west 25° to 45°
(towards Main zone)

- 'North' zone - silt s under the mill -
(ie part of main zone - cut off)

⇒ see Handouts

Main Zone 1.6 g/t Au cut off
.3 - 1.6 g/t Au - low-low grade

Ultimate pit - 4 m tonnes net waste

chloritic dyke NW thru ore

1025 - top bench

950 - bottom of pit

940 - salvage last 10m

high grade core eq. 17 to 35 g/t Au
(blast hole grades)

highest 64 g/t Au ⇒ blending

- min. dips to NE

④

more cpy = better grade Au
av. Cu grade $\sim 0.17\%$ Cu

pyrite content; fair correlation
between total sulphur (av. 4%)
+ better grade Au

North zone: under really Fair
17.7 g/t Au over 8m

Photos; sa. outside office
- coarse py + calcite (no gts)
- av. 3g/t Au

Bars - 400 oz each
(4000 oz in Sept)

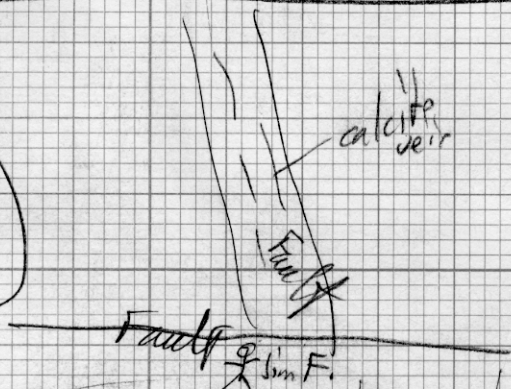
Up to Aug. = 3300 oz
July = 1400
June = 900

Ag $\equiv \frac{1}{3}$ of dove bar
Au: Ag = 1:1

(5) Photo - look E - 1000 ft. Bank
 - low grade (1-1.5 g/t) sst
 - epidotized, bedded sst.

Photo

60 ton truck



- both faults are post ore!
 @ NW end of 'ore'

- contact in pit of sst (East) / post west

Quick mill tour

Diesel power

Into SO₂ air cyanide

May 19/83

USGS-GSC-BCDM

Queen Charlotte Trip

(1)

DAY 1 ^{start at Sandbanks Is.} Maude Is area ^{Sunny, warm}

- Yakoun, Maude Fm.
- Kunga - 1st.
- argillites

- Good ammonite fossils in Maude Fm.,
esp. Harpoceras tropicum

DAY 2 8 hr. sail south down
to SKAAT NB. ^{Cloudy, warm}

DAY 3 Start - SKAAT NB. ^{Sunny, warm}

Slide 1 - Looking N from Skaat NB.

Photo 1 - Looking N " " (Karmukhan pillow lava)

Slide 2 - Looking north - Karmukhan pillow lava

Slide 3 } Pillow lava - west side (Skaat NB).

Photo 2 }

Slide 4 - Thin Burnaby Narrows

Slide 5 - Cabin in Burnaby Narrows

Slide 6 - Grew 1 & 2 in Sk. NB inlet

Many slides - Fauna - Huxley Is.
Prints - " " "

Photo - see photo in Bull. 54 Plate XIIA

Longarm Fm cgl.
upper Kungu flaggy argill.

Many - Arichika Is.
(Starfish Is.)

Sunny, warm

DAY 4 Anchored - Haswell Bay

- A - Lower Karmutsen? (Hutton Inlet)
- B - Syntectonic Pluton (De La Beche Inlet)
- * C - Karmutsen + mal. cpy + young sills
- D - Karmutsen pillow lavas (Big Sky Inlet)
- spectacular photos!
- E - Tar Is - agglom. + minor veinlets of
F - Skaga Is. - chalcocopy
- spectacular columnar jointing,
G - Tuft Islets - seal fanned up

DAY 5

Sunny & warm

Anchored Atlin Inlet (Lyell Logging Camp) (2)

Slide 1 - Oyster catcher eggs (3) on

Stop A Longarm Fm. cgl.

Stop B Slide 2 - Lava tube? in Karmutsen
on South Kunga Is.

Stop C Slide - looking for Monotis in Kunga
Plate VIA N side Kunga Is. (+ rare ammonites)

Stop D

Slide - sampling Karmutsen just south
of Skedans - veined + broken pillows

Stop E

Print + Slide - Karmutsen pillows + interbed

Vertical point lstr. - (as above) ↑ See Bull 59
→ Azurite in interbedded lstr. Plate Vd

Stop F Pic basic sill in upper Kunga
= Breaker Bay

→ Into Thurston Inlet to DJ Miller
+ move to Beattie Anchorage in
Cumshewa Inlet [logging camp]

DAY 6

Sunny, ^{cloudy} warm

Start - Beattie Anchorage

Slide - Oyster Catcher eggs (3) across
from Beattie Anchorage

Photo - Honna cgl. (+ss)
(Early Upper Cret.)

Don J Miller into Sandspit 6:30 pm
- Overcast, drizzle
