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HUCKLEBERRY Sept. 18/00

- Steve Blower + Paul [unclear] Sunny + 18°C

EAST cone (of pit)

- 3 ddk to SW - none
- 3 ddk to NW - good ore
- 2 ddk to SW - poor

Budget ~ \$200k

(incl. drilling above, plus linecutting + geophysics + percussion drilling to west of tailings pond (OK to 30m - poor IP, some ore))

Min Life - 6 yrs (2002 -> 2008)

- Vic Lervan - float 0.2 to 0.6% float (i.e. west flow of ice) in min. GD (Main Zone)

Main Zone - tonnage throughput ~~is~~ much better than expected.

(i.e. >30% more ore)

- still lots of gypsum in main zone

- Mill expansion complete

in July (to 21,000 TPD)

- key is feed size

(OVER)

3.6 MT vs 4.7 MT  
0.505% Cu

31/1/00

160788

Fall 2000

93E036  
037  
038

② → 1000 tonnes per hr. milling rate of Main zone (vols.) are without (i.e. not heated by) gypsum.

→ 700 tonnes per hr. milling rate of Main zone (vols.) are with (i.e. heated by) gypsum.

- Pushed back (to west) the Main zone wall to allow 'mining' of NAG (non acid-generating) r.k. for 'construction' (rds, dams, etc.) (also - will allow for deeper mining in pit).

Most, if not all, of Main zone ore is hosted in vols.

Head grades = 0.505% Cu.

Fresh snow above 500'

Emil Bratt Mine  
NEVILLE CROSSBY  
VANCOUVER B.C.

Mine

HÜCKLEBERRY

Sept. 10/92

- Steve Blawie - Mine Gen. <sup>Fog</sup>

EAST ZONE (SEX Op. Field Trip)

- up to 21,000 tpd thru mill

~ 0.6% Cu @ 0.27% cut-off

- .50 - .60 \$/lb Cu costs

~ 300 tonnes of Cu per day  
(cf. ~ 1/2 but similar)

- extremely good metallurgy

- sig. anhydrite (poorer for milling)

→ 'High grading' (i.e. no stockpiling)  
due to lack of 'room' plus  
cost (i.e. govt bond - \$2/tonne)

rd. in East Zone - good  
fracturing!

Main Zone - mining 'prematurely'  
to get access to NAG quarry  
(non-acid generating) in trans.

rk  
→ Just started 6 ddd to test SW end  
of Main Zone stock (to tailings pad)

# HUCKLEBERRY

Sept. 12/96  
Cloud/rain  
+12°C

- SEX tour prior to  
25th Ann. Golf (~30 persons)

- Kelly Telegram - Huckleberry Mines

~ 2/3 of ore in East Zone.

East Zone pit bottom will be 150 ft.  
below Tahsa Reach

Starter pit on East Zone @ 0.6% Cu  
(later = 0.57% Cu)

SR = 0.15:1

\$137M cap. cost

end Oct. '97 - start up

us \$0.67 operating cost - feasibility  
done @ us \$1.00

- 17 yr - mine life

Cu = 80% of ore

Au = 3%

Mo = 15%

Ag = 2%

~25% permanent camp to be built  
on site

(~150 construction camp now - ~500 by  
next yr)

Photo - Camp on hill to left  
→ Concentrator

16,500 TPD

- new access road around east flank  
of Huckleberry Mtn. almost completed  
(~600m left to construct)

- walk east to gold anomaly up to 500 ppm  
(assoc. with arsenopyrite). - 2 ddh

- airstrip for construction only.

- all AMD rock to be put under water in tailings pond.

① HUCKLEBERRY Aug. 25/94  
- Kelly Illebrum, Jim Hutter Sunny + 259c  
~ \$3m spent in '94  
(total \$5m by New Canamin)

10,000' in-fill on Main Zone

~52,000 ft. total ddh in '94  
(cf. ~49,000' in '93)

2 ddh in 'Far East'  
- arsenopy - sphalerk.

East Zone - now a stock  
(rather than dyke)

- found limits of stock

- structural control to stock

[15 ft] - minor supergene (~1m tonnes at west end of East zone)

- Pre-feasibility in progress

(incl. moly circuit) - Kilborn

→ mid-Sept. → apply to MDAP  
(amended Prospectus out very shortly).

In situ geol. res. ~ 175 m tonnes @ 30% cut-off.

Mineable: 80<sub>m</sub> @ 54% Cu

- start with western part of East Zone  
- 0.65% Cu (near surface)

① #7m for power line from Houston  
 - bus daily from Houston  
 - conc. hauled to Houston → rail to coast or Flin Flon  
 (HBMS) - Compliance book

East Zone  
 NW fault (rt. lateral) has offset ore to west by ~400m

100 ppm Cu soil encompasses all zones.

Far East <sup>5500</sup> ~~200~~ ppb Au  
 (2 ddh) 286 ppm Cu  
 - por. steps (5d) - same as East zone  
 - spark of arsenopyrite veinlets

North end of Main zone  
 94-223 .35% @ 200'  
 - need to test along contact of Main zone stock along with

- mill close to start-up west end of East zone.

③ med. to high work Index  
(due to 'late' stage albitization  
in volcs.)

- shearing or dyke bounds NE side of East Zone; South Wall Fault bounds south.
- stock + grade contours + veinily dips  $\sim 70^\circ N$

- 1994 holes - angled (cf. '93 - vertical)

94-180 - best 147' @ 2.192% Cu  
(highly silic.)

94-208 - 0.6% Cu (i.e. lower grade)  
(immed. to east of 180)

Comparison of angular vs vertical holes  
→ within 2% (i.e. very good!)

Thomas Postalski - geostat. thesis  
at USC (with M Sinclair)

need ~ \$120m capital to 'mine'

PHOTOS - looking W over Main Zone

- looking E over blast on west side of Main Zone

- looking W over 'starter pit' area of East Zone (>1000 ft hole making H<sub>2</sub>O)

- 93-26 - 'Discovery' hole  
f well water testing)

- look W from ~~east~~ NE end of East Zone.

- looking S over Main Zone

①

# HUCKLEBERRY

Sept. 14, 15/93

- Darryl Hanson (Kelly Illebrun) + 15°C  
(Del. Meyers - 3 wks)
- Paul Wejdek, Bob Lane

Discovery Hole 93-26

- anhydrite common in East Zone
- 1 drill on East Zone  
 20000 ft. ddh on East  
 + 6,000 ft ddh on West (of small stock)

- 200 ft centre grid to find limits of min.

Est. 193 exp. = #1 m (not BS)

- Wright Engineers - rpt. of Main Zone

E-W trend of airborne anomalies  
± intrusive ± min.

450m x 200m

Note: East Zone: E-W  
 Main Zone: N-S

} 4000 ft. grid  
 - prob. joints  
 at depth but  
 400-500 ft. of g/U  
 - grades still 0.4% Cu

Arsenopyrite (+As) veins in gossans ~~at~~  
~~at~~ East of East Zone E-W trend  
 (Monanda examined in '86, '87)  
 Del Meyers

andesitic tuff

② Hornfels suggests a larger  
intrusive (hydrothermal) source,  
rather than just small stock  
exposed. - curvilinear structure  
regionally.

Eric Finlayson - Kennecott 'boss' (Vand)  
- visited fairly frequently  
("good guy" - student of Titley)

East Zone: 60 m tonnes @ .6% Cu

plus possible 20 m @ .45% Cu

- consistent grade

- operation @ 15,000 tpd

90% of min. in vales  
10% in bio-intr.

- nearly all vertical holes

(a few angle - due to topography)

1000 ft. holes @ -65°

- most holes 750 ft. to 800 ft.

93-58 - twinned (to 860 ft.) 93-46

→ av. 0.553% Cu over 860 ft.

- locally strong magnetite

=drilling at SE end of East Zone  
in coarse gr. biotite-fsp par  
(no gtz eyes) with gtz veined  
of cpx-px-MoS<sub>2</sub>

[Noted similar to 'otep' hill intrusive  
on west side of Main Zone.

- No systematic (eg. Geolog) mapping of drill core (could be significant later for pit planning, etc.)
- ICP testing (assaying) plus Hg and As
- This project suffers from lack of geologists (logging core/mapping)

EAST ZONE

Photos - drill on NE end  
- Tam/Daryl/Paul at bluff (dyke)  
of fsp par. in min. natc. volc. block.  
at top of hills + minor cpx in dk.  
(televils club)

- look SW over NE end of zone  
(peak on S side of Tahisa in blppt)  
(otep mtd rd. of rel. to gr. bio-fsp par)