



Phillips Barratt Kaiser
Engineering Ltd.
2150 West Broadway
Vancouver, British Columbia
Canada V6K 4L9

Project Name: AURON - HAIL HARPER CREEK Cu

Project Number: 6799 Designed by: GW Date: 26/11/87

Checked by: _____ Date: _____
(Full Surname)

Ore head - 0.42% Cu -
- fairly coarse grained chalcopyrite, some
bornite & covellite.

Projected Recovery / Grade - 85% at 25% Cu
- Moly recovery / grade poor; other metals not
followed in testwork.

Without moly or other metals credits

Cu recovery / ton = $7.14 / 16 @ \$1.17 / 16 = \$ \underline{\underline{8.35}}$

Ore soft, 1/2" feed to 80% - 200 7.87 Kwh/t.

Add 10% for crushing

15% for conc. regrind 8.77 Kwh/t

@ 90% eff = 9.75 Kwh/t

Overall mill power + 30% 12.7 Kwh/t.

Operating costs - power, supplies

12.7 Kwh/t x \$0.03 / Kwh

\$0.380

Reagents (moderate dosage)

0.300

Steel - crush/grind

0.500

Maint

1.00

\$2.18/t.

Other mills
(incl labour)

Kidd Creek @ 8000 t/d

\$6.75

Cominco Valley @ 25000 t/d

\$1.967

Corp. Falc. Cu @ 2000 t/d

\$3.11

Unknowns: - ore reserves?
- open pit?

Feed shows the following which may cause process probs.,
but also may produce credit

	wt%	% of Cu		wt%	% of Cu
Zn	0.03	7.1	As	0.01-0.10	2.4-24
Ni (probably pyrrhotite)	0.03-0.07	7.1-16.7	Sb	0.01	2.4