

BECKER COCHRANE (POP M.C.)

LOCATION: Wheaton River District, 80 km S of Whitehorse, W of Tally Ho Mtn, 2 km NW Mt Bell, E side of Carbon Hill, ~5100' a.s.l.

ACCESS: From Carcross Road via Annie Lake Road across Wheaton River. Four wheel drive vehicle is necessary from turnoff at Becker Creek to The Becker-Cochrane Adits.

OWNERSHIP: NOT KNOWN

VISIT: Sept 7/84 with C. Baldys, H. Copeland
 - while enroute to MOM M.C.
 - very quick grab, extensive snow cover above adits

PREVIOUS WORK: 3 Adits (one caved, one with 2' water, one not checked)
 Several trenches

GEOLOGY & RESULTS: The showing is reported as a stibnite bearing quartz vein occupying a strong shear zone ($310^{\circ}/60^{\circ}\text{SW}$) in a small body of acidic volcanics that is within a larger mass of Coast Intrusion granodiorite. Two boulders of vein material with a minimum width of 60 cm found near the upper adit consisted of irregular masses of white and grey quartz with massive stibnite up to 30% and <1% carbonate (ankerite?).

A sample of this material yielded 250 ppb Au with 1000.0 ppm Sb, 1.7 ppm Ag and essentially nil As (LR1). The boulders appear to be derived from a linear zone along a small creek ~40 m W of the adit. Several white, drusy barren quartz vein boulders with a minimum width of 20 cm found in "road" talus (LR5) ran 110.0 ppm Sb and 1.5 ppm Ag but showed no Au. Wall rock alteration is reported as sericite, carbonate and clay gouge. Three samples taken from the dump at the lower adit were of possible wall rock material - LR3, LR4 and LR6. Sample LR3 showing strong sericitization with trace amounts of stibnite and pyrite yielded 2600 ppm As with 500 ppm Sb while a less altered variety with strong clay alteration, weak sericite and minor calcite along fine fractures ran 800 ppm As and 40 ppm Sb (LR4). The third sample, (LR6) of intensely clay altered material with intense silicification along fine fractures showed only 26.0 ppm Sb. The original rock type of LR6 is unknown but LR3 and LR4 are very likely altered felsic intrusives.

When put in contact with dilute (0.1%) HCl at room temperature, samples LR3 and LR4 turned a bright yellowish green due to the development of scorodite - a secondary As mineral. It took less than 2 minutes for the scorodite to develop.

An outcrop of medium to strongly clay altered and weakly sericitized rhyolite porphyry flow ran 420.0 ppm Sb (LR2). Two samples (LR7, LR8) of

chert (quartz) pebble conglomerate with a strong to intense pervasively silicified matrix were found to have 22.0 ppm and 27.0 ppm Sb - the more strongly silicified variety having the higher Sb. The conglomerate is thought to be (inter)bedded with quartzites.

Andesite feldspar porphyry, biotite granite, quartz monzonite, hornblende granodiorite and minor dacite feldspar porphyry boulders (local?) were found along the road within 500 m of the adits suggesting a somewhat complicated geological setting. The variability of the intrusives may be of significance i.e. multiphase with activity more recent than indicated by government mapping (1:250,000). The granite bears some resemblance to the "Tg unit", Coffee Creek Granite (GSC Pap. 73-41).

CONCLUSION: It is uncertain whether or not the altered intrusive samples represent wall rock alteration in proximity to the Sb-quartz vein or represent a different (but related?) event. The characteristically higher As found in altered intrusive (lower Sb) compared to very low As found in these samples with very high Sb lends support to the idea that they result from different fluids. Sb mineralization is placed high in the ideal epithermal system whereas As is lower. This suggests an overprinting of events at the Becker Cochrane with no clear evidence to show which produced the anomalous Au values. Considering this occurrence appears to fit into the lower upper portion of the epithermal model and anomalous Au has been found in the system the potential for more Au at depth is good.



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CERTIFICATE OF ANALYSIS

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CERT. # : A8415962-001-A
INVOICE # : 18415962
DATE : 30-SEP-84
P.O. # : NONE
Y-06A-07

No Descriptions

Sample description	Prep code	AS ppm	Sb ppm	Ag ppm Aqua R	Au ppb FA+AA		
YBC-CR1	205	3	>1000.0	2.2	50	--	--
YBC-CR2	205	15	190.0	0.2	<5	--	--
YBC-CR3	205	30	130.0	0.1	<5	--	--
YBC-HR1 <i>aInt? aspy</i>	205	1250	480.0	0.5	40	--	--
YBC-LR1	205	2	>1000.0	1.7	250	--	--
YBC-LR2	205	10	420.0	0.1	<5	--	--
YBC-LR3	205	2600	500.0	0.1	<5	--	--
YBC-LR4	205	800	40.0	0.1	<5	--	--
YBC-LR5	205	23	110.0	1.5	<5	--	--
YBC-LR6	205	15	26.0	0.1	<5	--	--
YBC-LR7	205	10	22.0	0.1	<5	--	--
YBC-LR8	205	9	27.0	0.1	<5	--	--

9 pebbles cgl.

RECEIVED

OCT 11 1984

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PER.....

Hart Bichler

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