

D. C. Harris
report
June 30/92

Sulphurite 117-2, 10 2.

803932

KQ 92-1 Gossan Hill Maria Zone

A few coarse slightly weathered tetrahedrite with gold and a few pyrite in a quartz matrix. See tables for gold and tetra analyses.

KQ 91-65A 1-4 West Zone R-1

Samples contain pyrite, tetrahedrite, sphalerite with trace amounts of ruby silver, galena, electrum, acanthite and secondary covellite, anglesite, limonite. Acanthite is associated with galena as replacement. See tables for tetrahedrite, ruby and electrum analyses.

KQ 91-65B R5-6 Zone

Major pyrite, minor pearceite, sphalerite with trace galena, acanthite, electrum. See tables for pearceite, electrum analyses.

KQ 91-66 1,2 Eraser Zone

Major pyrite, sphalerite, polybasite, trace electrum, ruby, galena, acanthite. Samples strongly weathered. See tables for polybasite and electrum analyses. The polybasite is a copper-free variety identical to that analyzed earlier from the Bielecki Zone KQ 90-161.

KQ 91-67A Bielecki Zone.

Intensely weathered with trace of sulphides and electrum. See table for electrum analysis.

KQ 91 67C Bielecki Zone

Major pyrite, polybasite, tetrahedrite, sphalerite, minor galena (slightly altered to covellite). See tables for analyses of polybasite, tetrahedrite and electrum. The polybasite in this sample as was found in others from the Bielecki zone is not the Copper-free variety.

KQ 91-69A 2,3 Near T-11

Sphalerite-rich with x-cpy, incl. galena, trace acanthite with galena, native silver, tetrahedrite. Minor pyrite. See table for tetrahedrite and silver analyses.

KQ 91-69F Near T-11

Scattered pyrite, fine arsenopyrite (some altered), trace sphalerite. Some pyrite altered to limonite.

KQ 91-76AA Float Treaty Glacier area.

Heavy malachite coating. Blue chalcocite-rich slightly altered to covellite, with hematite. Trace bornite. Most hematite occurs as fine flames.

KQ 91-84B 1,2 North Knipple glacier.

Sparse pyrite with trace rutile.

KQ 91-84C North Knipple Glacier.

Banded pyrite-rich with pyrite as fine individual euhedral

to subhedral xtals. Trace rutile and zircon.

KQ 91-84D North Knipple Glacier.

Scattered euh - subhedral pyrite, trace rutile, zircon.

KQ 91-96E S. side Mitchell glacier.

Pyrite-rich of coarse to fine euhedral xtals.

KQ 91-109D. W. side Jack creek

Pyrite-rich, some boty to euh. xtals.

KQ 91-120A 1-4. Drill site, West Treaty Glacier.

Galena-rich with sulfosalts, tetrahedrite, pyrite. Traces gold, arsenopyrite, chalcopyrite. Galena altered to anglesite and covelline. Sulfosalts are jamesonite and boulangerite. See table for analyses of sulfosalts, tetrahedrite and gold.

KQ 91-120C West Treaty Glacier.

Major chalcopyrite, pyrite, tetrahedrite, bornite, sphalerite. Bornite is replacing chalcopyrite in turn replaced with covelline.

KQ 91-127C West Treaty Glacier

Finely diss. pyrite with some sphalerite.

KQ 91-156 Unknown Loc.

Massive banded sulfides of sphalerite with incl. euh. pyrite, chalcopyrite, galena and magnetite.

Zor
(G)

	Gossan Hill	R-1 West Zone			R5-6	
	92-1	65-A1	65-A2	65-A2	65-A4	65-B
Au	63.3	66.2	65.1	70.8	64.0	67.2
Ag	38.1	35.3	36.0	31.0	37.3	33.1
Hg	-	-				
	Eraas	Bielecke	Bielecke	T-11	T-11	W. Treaty
	91-66-1	91-67A	67C	69A	69A	120A
Au	56.7	66.7	28.9	-	-	76.6
Ag	43.2	34.9	64.1	100.2	97.3	23.1
Hg	-	-	-	-	-	-
Sb	-	-	-	-	1.6	-

K1

Sample	Tetrahedrite							Locality
	Cu	Ag	Fe	Zn	Sb	As	S	
92-1	26.2	17.0	1.9	5.0	20.6	4.6	23.4	Cossan Hill
"	27.0	16.4	1.8	5.3	20.0	5.2	23.8	"
65-A1	22.4	21.2	1.9	4.9	25.1	1.6	22.6	R-1
"	22.3	21.8	1.7	4.9	25.6	1.4	22.7	"
65-A2	22.4	21.0	1.8	5.0	25.1	1.6	22.6	"
"	22.5	21.5	2.0	4.7	25.4	1.5	22.7	"
65-A4	22.5	21.8	1.7	5.0	24.8	1.5	22.4	"
67-C	24.2	19.7	0.5	6.4	23.1	3.0	22.9	Bielecki
"	24.4	19.2	0.5	6.4	23.1	3.2	23.3	"
69-A	25.0	17.1	2.4	4.2	23.6	3.0	23.3	near T-11
120A	26.8	14.8	4.5	1.8	27.7	0.3	23.6	W. Treaty Gl.
"	26.7	14.9	4.6	1.7	27.7	0.4	23.8	"
120C	30.4	9.7	2.5	4.3	28.2	0.5	24.1	"

	Ruby Silver				Locality
	Ag	Sb	As	S	
65-A2	61.8	20.1	1.3	17.0	R-1
-A4	62.3	20.0	1.1	17.0	R-1

	Polybasite						Locality
	Cu	Hg	Sb	As	S	Se	
65-B	0.5	74.6	5.1	3.1	12.1	4.3	R 5-6
"	-	74.2	5.5	2.9	11.9	5.3	"
66-1	-	72.8	6.1	2.7	15.0	1.5	Eraser
"	-	72.9	6.2	3.0	15.2	1.3	"
67-C	-	76.1	6.2	2.6	16.2	0.3	Bielecki

Analyses repeated

Poarczite

Very coarse
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	91-65B F 5-6	91-66-1 Frazn	91-67C B. Jacki	90-161A B. Jacki	90-161B B. Jacki	90-161-1 B. Jacki	90-161-2 B. Jacki
Cu	1.1	0.01	2.3	-	-	1.03	3.0
Ag	73.5	75.6	75.3	76.6	76.3	75.3	71.7
Sb	5.1	5.5	5.6	5.2	5.7	5.7	5.4
Ns	3.4	2.8	2.8	2.8	2.2	2.9	3.0
S	14.0	14.3	14.8	13.2	12.2	14.4	14.1
Se	3.8	1.3	0.6	2.0	4.2	2.2	3.4

	90-161-7 B. Jacki	90-161-6 B. Jacki
Cu	0.4	2.2
Ag	74.1	71.3
Sb	6.1	6.4
Ns	2.9	3.3
S	14.0	14.8
Se	2.9	2.2

Canavanite
24

Pb 1.00
Sb 1.54
Fe .24
S 3.56

PbS .57
Sb₂S₃ .43
FeS .24

Fe Pb₄ Sb₆ S₁₄

1-4 11
Boulangerite

1.00 5
.84 4.2
-
2.30

70
.30
-

Pb₅ Sb_{7.2} S_{11.5}