

Feb. 15/93

803934

R. Kirkham's KQ92 samples

KQ92-91A Visagie

Specimen consists of massive galena with minor pyrite and chalcopyrite, traces of tetrahedrite and sphalerite and secondary covellite. Galena, pyrite and chalcopyrite are weathered.

KQ92-92(1) Spiff vein

Coarse to fine euhedral pyrite, trace tennantite.

KQ92-92(2)

Electrum-rich with euhedral pyrite, proustite, pearceite, trace sphalerite, chalcopyrite and arsenopyrite.

KQ92-94A (1) Bielecki

Disseminated polybasite with pyrargyrite, electrum, sphalerite, altered pyrite and trace galena.

KQ92-94A(2)

Galena partially altered and replaced with acanthite, minor pyrargyrite, polybasite, sphalerite and trace electrum.

KQ92-94A(3)

Major sphalerite, polybasite, pyrite, trace electrum and pyrargyrite.

KQ92-94A(4)

Major sphalerite, pyrargyrite, pyrite, polybasite, galena, trace electrum and tetrahedrite.

KQ92-94B

Sphalerite-rich with galena, pyrite, tetrahedrite, pyrargyrite, trace chalcopyrite.

KQ92-149A

Major pyrite, tetrahedrite, trace sphalerite, galena.

KQ92-152(1)

Arsenopyrite-rich with euhedral pyrite, minor sphalerite, trace electrum and tennantite in arsenopyrite.

KQ92-152(2)

Major arsenopyrite, pyrite, trace sphalerite. Small gold grain attached to pyrite.

KQ92-155(1) Gossan Hill

Sphalerite-rich with minor pyrite, trace electrum, galena, tetrahedrite. Specimen highly weathered.

KQ92-155(2)

Major galena, sphalerite, pyrite, trace electrum. Highly weathered.

KQ92-155A.

Disseminated galena, sphalerite, pyrite. Highly weathered.

Microprobe analyses of tetrahedrite-tennantite, polybasite-pearceite, pyrargyrite-proustite and electrum are attached.

KQ 92-

Kizilirmak 92 Samples.

Tetrahedrite - Tennantite*

	Cu	Ag	Fe	Zn	Sb	As	S	
152-1	37.0	3.3	5.3	4.2	9.9	13.2	27.1	*
92-1	31.4	12.2	2.7	4.4	12.7	10.7	25.8	*
	32.4	11.0	1.8	5.2	14.0	10.1	25.7	*
94B	15.6	32.3	1.0	5.3	20.4	4.0	20.8	
149A	23.7	21.6	2.1	4.7	20.5	24.6	23.4	
155	23.4	20.3	2.5	4.1	23.0	3.4	23.4	

Polybasite - Pearceite*

	Cu	Ag	Sb	As	S	Se	
94A-1	-	72.5	7.8	2.4	13.1	4.8	
	.2	75.7	6.2	2.0	12.3	3.8	
94A-4	2.9	72.4	5.7	2.2	12.9	2.6	
92-2	-	78.8	3.0	4.3	14.3	0.1	*

Pyrrhotite - Proustite*

	Cu	Ag	Sb	As	S	Se	
94A-2	-	64.8	17.7	1.8	16.0	0.7	
94A-4	-	61.6	18.3	2.1	17.2	0.3	
92-2	-	66.1	4.7	10.7	18.4	0.1	*
	-	64.6	7.9	9.8	18.5	-	*
	-	64.4	12.0	5.7	17.0	-	
94B		65.1	14.4	0.3	16.6	-	
149A		66.0	15.7	2.1	16.6	-	

K9 92-

Kirkham '92

Electrum

Au

Ag

Hg.

92-2	62.9	36.4	0.5
	61.9	37.8	1.0
	61.8	37.9	0.5
	63.0	36.9	0.8

152-1	69.1	31.3	0.3
-------	------	------	-----

155	53.9	43.9	0.3
-----	------	------	-----

94A-1	68.2	31.4	-
	69.0	32.2	-

94A-2	73.3	27.9	-
	72.8	27.1	-

155	54.1	44.1	0.8
	51.4	46.3	0.7