

803935

## Kirkham samples

KQ S91 386

42m - euhedral to subhedral pyrite less than 400 um with minor cpy, trace rutile.

62m - same as above with traces of tennantite and rare bornite inclusions in pyrite. Tenn - Cu40.6, Fe.6, Zn7.9, Sb11.9, As12.2, S26.6.

80.6m - subhedral to euhedral pyrite with minor cpy, trace moly, rutile.

106m , 125.5m, 135.7m, 144.5m, 185.5m are all the same as 80.6m. Pyrite up to 1mm in diameter.

KQ92-93B

finely disseminated sphalerite, polybasite-pearceite, electrum, tetrahedrite, pyrite with trace secondary covellite after sphalerite.

	Poly-Pear		Tetra		Electrum		
Cu	3.1	4.3	Cu	26.1	Ag	39.4	38.8
Ag	71.6	68.4	Ag	16.5	Au	61.4	61.4
Sb	4.8	5.3	Fe	1.2			
As	2.8	3.3	Zn	5.9			
Se	2.8	3.3	Sb	19.6			
S	13.5	13.4	As	5.3			
			S	23.6			

KQ92-102(1)

Major disseminated cpy, minor fractured pyrite, trace moly.

KQ92-102(2)

Coarse cpy, minor fractured pyrite and moly, Trace sph, rutile. Some limonite.

KQ92-133A

Abundant carbonaceous matter with finely disseminated pyrite and trace tennantite. Carbonaceous matter occurs as veins and irregular masses. Tennantite Cu40.2, Fe1.4, Zn6.3, Sb7.4, As14.9, S26.8.

KQ92-133B

Major carbonaceous matter with fine euhedral to framboidal pyrite and finely intergrown pyrite-gersdorffite+other? Some tennantite Cu41.2, Fe.5, Zn7.6, Sb5.5, As16.0, S27.6.

## KQ92-134A(1)

Major carbonaceous matter with coarse to fine euhedral to framboidal pyrite, trace cpy, sph, tennantite, gersdorffite +? Tennantite Cu40.5, Fe0.2, Zn8.1, Sb4.5, As17.7, S26.8.

## Kq92-134A(2)

Same as above.

## KQ92-134B(1)

Carbonaceous-rich with coarse to fine pyrite, some zoned, fine gersdorffite, sphalerite.

## KQ92-134B(2)

Carbonaceous-rich with coarse to fine euhedral to framboidal pyrite, trace tennantite, gersdorffite-vaesite, sphalerite.

Tennantite Cu40.7, Fe0.5, Zn7.9, Sb4.1, As17.4, S27.3.

Gersdorffite Fe1.4, Ni33.2, As44.1, S19.7.

Vaesite Fe2.0, Ni44.5, As1.0, S49.1.

The gersdorffite and vaesite occurs finely intergrown with the framboidal pyrite and it is difficult to find areas coarse enough for good analysis.

## KQ92-134D(1)

Carbonaceous-rich with coarse to fine euhedral to framb. pyrite and trace of gersdorffite.

## KQ92-134D(2)

Same as above with traces of sphalerite.

## KQ92-135D

Sparse pyrite mostly altered to limonite with trace of carbonaceous matter.

## KQ92-135G

Fine euhedral to framb. pyrite in a highly sheared carbonaceous matrix, trace of tennantite Cu40.9, Fe0.6, Zn7.9, Sb4.2, As17.3, S27.1.

## KQ92-135H(1)

Carbonaceous-pyrite-rich with fine sphalerite.

## KQ92-135H(2)

Carbonaceous-pyrite-rich. Pyrite euhedral to framboidal with interstitial gersdorffite and vaesite. Trace sphalerite and tennantite Cu40.6, Fe0.3, Zn7.9, Sb10.2, As13.4, S26.1.

Carbonaceous matter gave 33.2 wt. %S.

## KQ92-135I

Finely disseminated pyrite and carbonaceous matter with trace sphalerite and limonite. Pyrite euhedral to framb.

## KQ92-135K

Same as 135I

KQ92-135M

Fine pyrite and trace of very fine carbonaceous matter.

KQ92-135N

Finely disseminated carbonaceous matter with trace sphalerite and sparse pyrite.

KQ -Sunro

B-Zone 5020

Major cpy, pyrrhotite, cubanite laths, trace sphalerite, violarite and fine inclusions of mackinawite. Trace pyrite. Sphalerite occurs as irregular grains and as exsolution stars in cpy and pyrr.