

RESULTS

TABLE 1. PETROGRAPHIC/MINERAGRAPHIC SUMMARY

Sample	Comment	Lithology and Replacement	Deposition
26017.01 06251	The sample is of thermally and tectonically overprinted quartz vein/cement. The quartz encloses sparse metamorphosed sedimentary rock fragments. Relict native gold and pyrrhotite inclusions are present within the framework quartz.	Sedimentary rock -mica, quartz -kaolin clays, hematite	1.(vein/cement) quartz, alkali feldspar (→ kaolinite), pyrrhotite, native gold; quartz 2.(shear) quartz, sericite/muscovite 3.(veinlet) quartz, sericite 4.(cavity/veinlet) hematite, smectite/kaolin clays, hydrated Fe-oxides
26017.02 06252	Crenulation structures are part of the quasi-plastic deformation phase, represented extensively by very fine-grained granoblastic quartz formed along abundant microshears/shears. Gas-rich fluids were associated with the deformation stage. Essentially undeformed quartz fills late-stage and penetrative fractures and microfractures.		1.(vein/cement) quartz; quartz 2.(shear) quartz, sulphides (→ hematite), mica minerals (→ kaolin/smectite clays) 3.(vein/veinlet) quartz, 4.(veinlet) hematite
26017.03 06253	Wallrock fragments enclosed by the quartz have quartz + muscovite + tourmaline bearing peak metamorphic replacement assemblages. A strain fabric is also represented by the peak metamorphic replacement assemblage together with that defined by deformation under thermally elevated conditions within the quartz vein.	Silty sandstone 1.muscovite, quartz, tourmaline, Fe-sulphides 2.hematite, hydrated Fe-oxides	1.(vein/cement) quartz, ?pyrrhotite (→ hematite); quartz 2.(shear/cavity) quartz 3.(veinlet) quartz, carbonate (→ hematite) 4.(cavity) hematite
26017.04 06254	Granoblastic secondary quartz indicates recrystallisation of quartz under thermally elevated conditions. Milky white quartz in some places is a distinctly separate stage of deposition, whereas in other places it represents a hydrothermal overprinting of early smoky grey vitreous quartz.		1.(vein/cement) quartz; quartz 2.(shear/cavity) quartz 3.(cavity/veinlet) hematite
26017.05 06255	A strongly oxidised/weathered, tectonically strained and thermally overprinted quartz rich sandstone. Recrystallisation and attenuation of detrital and secondary quartz define a penetrative strain fabric. Late brittle shearing has facilitated oxidation and weathering.	Quartz-rich sandstone 1.quartz, muscovite, biotite, Al-silicates 2.chlorite, sericite 3.hematite, hydrated Fe-oxides	1.(cavity/shear) quartz, muscovite 2.(cavity/vein/shear) hematite, hydrated Fe-oxides