

DEPTH (m)	ROCK UNIT	DESCRIPTION	STRUCTURAL AND VEIN INFORMATION	MINERALISATION	NOTES
120.37 - 128.7	QUARTZITE, minor SILTSTONES	Very hard pale grey quartzite, massive beds 10 cm separated by thin siltstone beds < 10 mm. Some thinly bedded siltstone / sandstone intervals to 1.5 m. Disrupted and brecciated, otherwise quite massive and featureless.	Gradual Change, Bedding 50°		120.37-128.7 po, very finely disseminated in quartzite beds.
128.9 - 146.6	MASSIVE SILTSTONES WITH QUARTZITES	Medium grey quartzite siltstones with intervals of pale grey extremely hard quartzites to 1 m thick. Some clay rich siltstone and grey silty shale beds are locally abundant. In the quartzite siltstones, bedding is quite well defined, with occasional sandy or clay rich beds to 1 cm. Some disruption and later fracturing.	Gradual Change ← 130.9 Bedding 25° ← 132.8 Bedding 45° ← 136.6 Bedding 60° ← 139.3 Bedding 50° ← 141.6 Bedding 45° ← 145.1 Bedding 50°		128.9-146.6 pg, po, dissem. along bedding, some bedded laminae and 2 thin stringers along brecciation cracks. Some sparse qtz-pg-carbonate veins to 2 mm.
146.6 - 160.0	SILTSTONES AND SHALES interbedded	Medium grey clay rich siltstones / silty shales 5-10 cm separated by fine beds of thick shale (often with bedded pyrite laminae) and light grey quartzite siltstones up to 1 cm. Some sparse hard black grey quartzites, 10 cm to 0.75 m. Very well bedded for intervals up to 3 m - bedding apparent with disrupted intervals to 2 m. Minor fracturing at low angles to core, when combined with shaly black parting along bedding reduces the core to rubble locally.	Gradual Change, Bedding 45° ← 150.1 Bedding 80° ← 156.5 Bedding 50° ← 157.3 Small Fold, axis 90° ← 158.4 Bedding 55°		146.6-160.0 pg, po, bedded laminae to 1 mm, dissem. in some siltstone beds and in sparse thin veins and stringers. Rare qtz-carbonate-pg veins in small breccia zones.
160.0 - 178.66	INTERBEDDED SILTSTONES AND SHALES WITH QUARTZITES	As for 146.6-160.0, with the addition of brownish grey very hard quartzites to almost 40% of the interval, up to 1.5 m thick. Brecciated and contorted, some sections are badly broken due to fracturing and veining at low angles to CA.	Gradual Change ← 160.2 Bedding 45° ← 165.4 Bedding 55° ← 166.1 30 mm carbonate-pg-sil-fluorite-qtz-vein, 35° ← 169.4 Bedding 70° ← 172.5 Bedding 45° ← 173.8 22 mm pg, massive-carbonate-qtz-vein, 30° ← 174.5 Bedding 10°		160.0-178.66 pg, po, as bedded laminae and in veins and stringers with qtz-carbonate-fluorite-sil-pg-veins. Some finely dissem. pg in shales. Po occurs rarely as blebs to 30 x 10 mm.
178.86 - 178.86	Increased brecciation and fracturing; core is hard and silicified.		Contact irregular, 75°		178.86-178.86 pg, po, dissem. throughout and in veins, stringers with qtz-carbonate-fluorite-sil-pg-veins.
178.86 - 196.18	QUARTZ FELSPAR PORPHYRY	178.86-180.44 White finely crystalline matrix with qtz phenocrysts to 2 mm, 5-7%; feldspar yellowish with indistinct outlines to 1 mm, 3%. 180.44-184.3 Creamy coloured very fine grained almost translucent matrix with some grey silty red partings to 10 cm. Phenocrysts: qtz - rounded grains to 5 mm, 10% Feldspar - creamy white irregular, fine aggregates, some to 1 mm, alteration 7-10% 184.3-192.4 Pale grey, almost translucent matrix - very siliceous. Phenocrysts: qtz as rounded to sub rounded grains to 5 mm, 15% Feldspar - fine grained, creamy coloured and weakly altered 7-10%	← 186.0 20 mm pg-fluorite-qtz vein 12° ← 187.1 10 mm pg-qtz-carbonate-po-vein vein, 15°		178.86-180.44 pg with muscovite veins to 3 mm. Some ultramicro aggregates of epidote, weak trace rounded black crystals. 180.44-184.3 pg as distinct blebs and grains to 2 mm, or as fine grained dark grey aggregates, trace ep, weak trace po. 184.3-192.4 po=pg, as irregular grains and fine grained aggregates to 5 x 4 mm. Weak trace ep, arsenic and some arsenic consistent. Minor carbonate qtz-pg-po veins 10° LCA.
192.4 - 196.18	As for 180.44-184.3, but qtz 15%. Patches of grey translucent groundmass material as for 184.3-192.4 persist until 194.58 m.		Contact 80° ← 196.6 Bedding 110° ← 197.1 Bedding 30° ← 200.2 Bedding 45° ← 201.3 Small fold, axis 50°, trace 45° ← 202.0 Bedding 55° ← 206.6 Bedding 45° ← 207.3 Fold, axis 55°, trace 5° ← 208.0 Bedding 5°		192.4-196.18 as above, with strong trace arsenic, minor fluorite, po diminishes to trace. 196.18-196.18 pg, trace fluorite, weak trace arsenic, a little fluorite, po, new lower contact.
196.18 - 208.1	SILTSTONES AND SHALES	Thinly interbedded grey siltstones, silty shales with thin black grey shales with pyrite laminae as for 146.6-160.0 m. The upper 2 m is hard and silicified, weakly fractured.	← 196.6 Bedding 110° ← 197.1 Bedding 30° ← 200.2 Bedding 45° ← 201.3 Small fold, axis 50°, trace 45° ← 202.0 Bedding 55° ← 206.6 Bedding 45° ← 207.3 Fold, axis 55°, trace 5° ← 208.0 Bedding 5°		196.18-208.1 pg, as bedded laminae to 1 mm, dissem. in some siltstone beds and in sparse thin veins with qtz-carbonates.
END OF HOLE 208.1 m					