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| <p>0-19.9 DOLOMITE, weakly recrystallised.</p> <p>Mottled pale grey and creams, with some segregation of qtz and calcite.</p> <p>Extensively disrupted and brecciated - early recrystallisation has proceeded along brecciation fractures, with some lost core 3.0m - 5.2m. deposition of qtz and recrystallised dolomite, calcite in open spaces.</p> <p>Later fracturing has broken the core to a significant extent - sections are highly broken, with yellowish puggy clay on shear surfaces.</p> <p>LOST CORE 14.8-16.0m.</p> | <p>2/3 Recovery poor to 15.2m.</p> <p>10.2-12.0 Fault zone - core badly broken + washed.</p> <p>Faulted and broken - shears at low angles to core.</p> | <p>0.0-12.2 py-sp-fluorite-qtz as irregular veins and patches 3-5% in brecciation cavities.</p> <p>12.2-14.9. sparse qtz-carbonate-sp veining</p> <p>1-2%</p> |
| <p>19.9-22.9 DOLOMITE</p> <p>Grey fine grained rather structureless dolomite. Extensively brecciated, with medium grey staining of brecciation fractures.</p> | <p>Gradual Change</p> | <p>19.9-22.9 qtz-carbonate-trace sp-py veining</p> <p>1-2%</p> |
| <p>22.9-36.1 DOLOMITE, weakly recrystallised.</p> <p>Alternating intervals pale grey weakly recrystallised dolomite and slightly darker grey fine grained unaltered dolomite on a 0.5-1.5m scale.</p> <p>Extensively brecciated and disrupted - fine dark grey brecciation fractures, some of which have poorly defined fronts of recrystallisation to 3-5um. in the unaltered dolomite.</p> <p>Well fractured and sheared (post-recrystallisation) - small discrete breccia zones throughout.</p> | <p>2/3</p> | <p>22.9-36.1 qtz-carbonate-trace sp-py-veining and blebs, irregular patches in brecciation cavities.</p> <p>1-2%</p> |
| <p>36.1-37.2 DOLOMITE SULPHIDE LOSE RESERVEIVE.</p> <p>Mostly brecciated zone, with bluish green malachite and qtz rich layers finely interbedded with qtz and carbonates (1-2mm).</p> | <p>7/8 Contact 70°</p> | <p>36.1-37.2 Quartzite py, po, sp trace 2 cassiterite as blebs and grains disseminated along bedding</p> <p>10%</p> |
| <p>37.2-46.6 DOLOMITE, weakly recrystallised.</p> <p>See 22.9-36.1 for description.</p> | <p>2/3</p> | <p>37.2-46.6 trace sp, py, fluorite as blebs and irregular patches in brecciation cavities.</p> <p><1%</p> |
| <p>46.6-51.8 Recrystallised DOLOMITE</p> <p>Dark grey recrystallised carbonates and qtz with patches of white calcite and dolomite.</p> <p>The recrystallisation has apparently proceeded along brecciation fractures - some exposures of pale grey bleached, but otherwise relatively unaltered dolomite.</p> <p>48.5-51.0 Minor talcose alteration - some bands of talc carbonate to 30cm.</p> | <p>3/2</p> <p>48-52 m - FAULT ZONE.</p> | <p>46.6-51.8 sp, py, fluorite as blebs in recrystallised zones, with qtz and remobilised carbonates. 48.5-51.8 S-7%.</p> <p>3-5%</p> |
| <p>51.8-93.6 SILTSTONES, minor QUARTZITES.</p> <p>Thinly bedded (mostly <2cm) khaki green/grey sericitic clay rich siltstones. Extensively disrupted by soft-sediment deformation with later minor brecciation and fracturing, some folding. Some siltstones are quartzose, hard and bluish or brownish-grey in colour; these may be interbedded with, or grade into, quartzite intervals up to 1m thick. (The quartzite beds show alternation of silty sand and sandy-silt beds on a 1-2 cm scale)</p> <p>Fine white clay filled fractures, some with Fe-sulphides and carbonates permeate the rock at 30-600 LCA.</p> <p>60.0-93.6 Some minor, contrasted greenish shale beds also some intervals of darker grey, less sericitic material begin to appear.</p> | <p>10/11</p> <p>53.5 20mm dolomite-fluorite-sp vein, 35°</p> <p>53.7 Bedding 15°</p> <p>56.2 15mm dolomite vein with sediment inclusions, 35°</p> <p>58.2 70mm dolomite-sp-ga-fluorite-qtz vein, 30°</p> <p>58.3 40mm dolomite-fluorite-py-marcasite-qtz-sp-po vein, 45°</p> <p>58.4 10mm dolomite-py-povehite</p> <p>63.0 30mm carbonate-fluorite-py-qtz-po vein, broken core.</p> <p>66.4 25mm qtz-ga-carbonate-fluorite-sp-py vein, 45°</p> <p>73.9 30mm breccia zone - dolomite-fluorite with sediment inclusions, 30°</p> <p>79.5 Bedding 50°</p> <p>82.0 20mm dolomite-sp-fluorite-py vein, 35°</p> <p>82.4 20mm sp-dolomite-py-marcasite vein, 15°</p> <p>84.8 50mm dolomite-sp-ga-py-fluorite vein, 20°</p> <p>85.3 40mm dolomite-sp breccia vein, 10°</p> <p>86.5 20mm vuggy py-marcasite-dol-sp-qtz vein, 30°</p> <p>87.2 10mm dol-sp-qtz vein, 35°</p> <p>89.7m</p> <p>91.0mm vuggy py-sp-qtz-carbonate vein, 50°</p> <p>90.7 Bedding 15°</p> | <p>51.8-53.5 py, trace po disseminated along bedding and as blebs and stringers 1-3% dolomite-qtz-fluorite-py-sp veining.</p> <p>3-5%</p> <p>58.5-93.6 py, trace po, finely disseminated along bedding and in veinlets and stringers. Sparse dolomite-qtz-fluorite-py-sp veining.</p> |
| <p>72.8-73.6 Some bedded talc material with qtz - originally dolomitic?</p> <p>72.7m Sample N2 98072 taken for thin sectioning and petrology.</p> <p>79.5-89.2 Quartzites > siltstones</p> <p>86-93.6 Hard and weakly silicified siltstones and quartzites.</p> | <p>93.6-101.25 QUARTZ FELSPAR PORPHYRY</p> <p>Matrix finely crystalline, in places siliceous and almost glassy; pale yellowish or greyish cream in colour. The first 50cm is white and fine grained, with weakly altered Calcsp 5%, qtz 3%.</p> <p>96.1-98.2 Phenocrysts: qtz, subhedral grains to 4mm, turbid and colourless, 10%</p> <p>Felspars, altered - hard yellowish or greenish brown grains to 2mm, variable 1-7%</p> <p>98.2-101.25 White finely crystalline groundmass, in some places faintly greyish and translucent.</p> <p>Phenocrysts: qtz rounded and subhedral grains 1-4mm, 10%</p> <p>Felspars, weakly altered, to 2mm, 3-5%</p> <p>Decrease in grain size and phenocryst abundance in last 40cm.</p> | <p>93.6-94 py, marcasite, trace po 15%</p> <p>94.1-95.0 py, marcasite, trace arseno-fluorite and fine gr. cassiterite 3-5%</p> <p>95.0-98.2 py, marcasite > po, trace cassiterite, arseno, sp Sulphides as fine grained aggregates to 2mm, concentration variable 3-25%. Some sparse qtz-py-marcasite-cassiterite veining.</p> <p>98.2-101.25 py, marcasite, trace arseno, cassiterite and po, weak trace sp. Fine grained aggregates and discrete blebs and grains to 2 or 3mm.</p> <p>101.25-103.5 py, trace marcasite, finely disseminated in thin stringers and small blebs 7%</p> <p>103.5-112.5 py, disseminated and in fine stringers; sparse qtz-carbonate-fluorite-py veinlets. 2%</p> |
| <p>101.25 - 112.50 SILTSTONES, minor QUARTZITES.</p> <p>See 51.8-93.6m for description.</p> | <p>101.25</p> <p>103.4 Bedding 35°</p> <p>100.3 Bedding 55°</p> | <p>END OF HOLE 112.5m.</p> |

