



Quartzite: A A, decreasing in crystal size

Interbedded Siltstone: light to medium grey/green granular, indistinct grain boundaries, v hard, bily to conchoidal fracture. Highly siliceous. No shows
 Shale: light green to grey, brittle, fissile to blocky, v hard, non-calc, siliceous

Siltstone: A A, trace mica No shows

Shale: A A, trace to common glauconite

Siltstone/Shale: A A, trace glauconite No shows

Sandstone: lt gr to translucent, ln to coarse, predom ln to med grd, sub-rnd, commonly ang due to fracture character. Mod sort No shows

Sandstone: clr to crgy white to pink, ln to cse grd, predom ln to med grd, poor to fair sort, sub-rnded to rndd
 Quartzite: conchoidal frac. v hard Silica cmt with trace of intergran hematite. Massive No shows

Petrographic Description:
 Quartz: >95%
 Goethite/limonite: 2%
 ?Koolinite: 1-2%
 Poros: trace

Sandstone: A A, trace hematite cmt No shows

Sandstone: A A, trace to v common intergranular hematite and specular hematite? No Shows

Sandstone: crgy white to red/brn, ln to cse grd, predom ln to med grd, mod to well sorted, sub-rnded to rndd. Silica cmt with trace to common intergran hematite where fracturing is more common. Massive Quartz Arenite. Trace to common specular hematite. No shows

Sandstone: clr to pale yellow to red/brn, ln to v cse grd, predom ln to med grd, mod to well sorted, sub-rnded to rndd. Silica cmt with trace to common intergran hematite where fracturing is more common. Massive Quartz Arenite. Trace to common specular hematite. No shows

Sandstone: translucent to dk gr, v ln to coarse, pred ln to med, ang to rndd. Quartz Arenite/Quartzite. Common hematite and specular hematite. Trace Koolin. No shows

Lost Circulation Zone?
 Sandstone: A A, rare authigenic qtz - tal faces but rapidly coated by hematite. Fracture fill: authigenic qtz either as anhedral, clr to milky splinters or shards as 1mm pyramidal to dysymmetrical clr qtz crystals, perfectly euhedral. No shows

Sandstone: A A, trace glauconite, and authigenic qtz. No shows

Sandstone: A A, v common authigenic qtz and specular hematite. No shows

Sandstone: clr to lt grn/gry to reddish brn, v ln to cse grd, predom ln to med, poor to fair sort, sub-rnded to rndd. Interbedded to interstratified with Siltstone: yellow to orange bily frac, siliceous
 Shale: var between dk gry to blk, fissile to bily, non-calc, siliceous. Acc: glauconite, hematite and mica. Coarsening upward cycles are common. No shows

Shale: dk gry to blk, splintery to fissile, firm to hard. Microsiliceous, siliceous

No wireline log below this point.

Sandstone: lt to med gry, predom indist grn bound, rich, poor sort, sub-rnded, silty and clay rich, hard silica cmt. No vis por. No shows
 Interbedded with Shale: dk gry, firm, fissile to sub-fissile, micaceous, non-calc. A phyllitic sheen in part. No shows

Sandstone: A A, Shale A A, v common mica No shows

Sandstone: lt to med gry, med to ln grd, mod sort, sub-ang to sub-rnded, bily fract. Siliceous. No vis por. No shows. Trace v ln grd sandstone/siltstone? poor sort siliceous cmt. Commonly with shale laminae. A A. No shows

Sandstone: A A, increasingly calcareous. No vis por. No shows