028518

TRIONE TO 50.0m END OF CORE

50.0-62.95 THINLY BEDDED SILTSTONES with THIN MINOR SANDSTONES AND DARK SHALES

Dark grey clay rich siltstones with thin black and dark grey shale laminae and sparse medium grey quartzose siltstones / fine sandstones to 5 mm max. Extensively disrupted and deformed - soft pebble conglomerate fabric with rounded - sub angular chunks of siltstone in a contorted and deformed matrix

22.4-22.2 Some thin fine grained ? tuffaceous beds also interbedded with siltstones and shales.

31.0-31.5 Minor fine grained tuffaceous beds to 1 m interbedded with siltstones. Bioturbated - soft sediment disruption.

60-62.95 Some thinly graded (sorting ↓) beds to 2-3 m occur sporadically interrupted by the darker grey rich shales & siltstones and shales as above. Slightly increased proportion of pale grey quartzose siltstones

62.95 - 86.8 QUARTZ - FELSPAR VOLCANICS

Mainly thinly crystalline and crystal crumes in generally bioturbated and ripped by siltstones.

62.95-66.5 Matrix greyish brown. Abu. subrounded and rounded grains to 2-3 mm max. 10% Feldspar, bioturbated crumes and partially altered 2-3%.

66.5-67.5 Matrix fine grained and pale greenish grey. Abu. 10-15% ? Feldspar to 2-3 mm. partially altered 10-15%.

67.5-71.5 Pale brownish grey due to weathering. Abu. of rounded subangular grains 0.5 mm - 1 mm, 10-15% Feldspar.

71.5-74.8 Matrix greyish green, finely crystalline, abu. 10-15% Feldspar, partially altered 1-5%.

74.8-80.6 Matrix grey, siliceous and semi bioturbated. Abu as above. Feldspar 2-3% (clear), white and weathered 30%.

80.6-81.9 As for 71.5-74.8.

81.9-86.8 Matrix fine grained and pale greenish grey/brownish grey. Abu. rounded subangular grains 0.5 - 1 mm, 10-15% Feldspar to 2-3 mm, mostly 0.5-1 mm partially altered 10-15%

86.7-86.8 Matrix white, finely crystalline, lesser proportion of phenocrysts - total 10-15%.

86.8-123.45 SILTSTONES AND CARBONACEOUS SHALES

Dark grey with interbedded black shales to 1 cm thick. Extensively disrupted with chert and grey quartzose siltstone and darker grey clay rich siltstone in an contorted almost black shaley siltstone matrix.

114.4-123.45 As above, but lighter greyish in colour - finely bioturbated and weakly fractured.

182 Sample 18020 taken for this sediment and petrological

0.5 Bedding 40°

4.9-5.0 10 mm vein mainly quartz with dolomite - fluorite - ? albite - sp rimmed with carbonate
4.9-5 5.0 mm vein grey quartz - irregular dolomite - fluorite - ? opaque with altered ? illite 60°, 20°

10.3 10 mm dolomite - fluorite - phlogopite - albite - ? opaque - irregular vein, 45°

16.3 10 mm sp. dolomite - fluorite - py vein, 60°

31.5 Bedding 45°
31.5-3.5 mm py - muscovite - sp - ? fluorite vein, 40°

31.85 10 cm fluorite - carbonate - phlogopite - py veins with siderite ? veinlets 60°, 35°
32.3 30 mm fluorite - carbonate - sp - ? siderite - vein, 35°
32.4-3 10 mm grey fluorite - sp - py - py vein, 55°
32.6 Bedding 30°

32.7 Bedding 30°
32.8 Bedding 70°

36.2-36.5 Minor fault zone - broken core and gouge zone to 1 cm.

37.8 10 mm dolomite - fluorite - ? opaque - phlogopite - sp - vein, 30°

46.4-50 mm dolomite - sp - fluorite - py veins with siderite & barite ? veinlets
Contact 30°

60.4 Bedding 30°

62.95 Bedding 30°
62.95-1.0 mm dolomite - sp - fluorite - py - sp - ? muscovite - fluorite vein, 40°

66.0-1.0 mm py - muscovite - sp - ? fluorite vein, 40°

71.5 Bedding 40°

80.1-2 10 mm sp - carbonate - sp - ? opaque vein, 40°

80.4 Bedding 40°

80.4-90 mm muscovite - sp - carbonate - fluorite - ? magnetite vein, 70°
80.8-2 10 mm sp - py - sp - ? siderite - vein, 40°

114.4 Bedding 30°

114.9-90 mm muscovite - sp - carbonate - fluorite - ? magnetite vein, 70°
115.8-2 10 mm sp - py - sp - ? siderite - vein, 40°

3.0-3.5 m Finely siliceous, some sparse white to 2 mm. Also dolomite - ? opaque - fluorite - py - ? opaque sp. veins rounded to 3 mm, ok low angles 5-10°.

32.0-32.5 Vein zone 2.5 m - muscovite - fluorite - sp fluorite - ? opaque - sp - py - fluorite angles 30-70°, fluorite 0.5-10 mm.

32.0-32.1 m. Siliceous and as above beds to 0.5 m also as thin veinlets and stringers with minor sp. fluorite.

33.1-33.75 Finely siliceous some beds py - po - ? muscovite to 5 mm, especially near disruption of the po - ? beds. Some py - muscovite veins - carbonate veinlets and stringers.
Visible contaminations - 5% for 1-2 m.

36.2-36.5 Minor fault zone - broken core and gouge zone to 1 cm.

62.95-66.0 Py with muscovite rich to 5 mm - ? sp beds ? ? well banded zones to 1 mm, 2-3%. Minor sp. fluorite - ? siderite ? Total 2-10%.

66.0-67.5 These are veined up with some vein material.

67.5-71.5 sp. veins py as beds to 5 mm, some sp. ? py ? veins to 1 mm

71.5-74.8 Py muscovite in irregular but general layering sometimes as subtle zones with rectangular cubic (? halite ? halite ?) to quartz pseudomorphs (finally 10% for a few cm) to 1%.
These purple brown and green fluorite / sp veinlings and occasionally fluorite - carbonate. Sulphides appear to be concentrated above the bioclast phase in the stratigraphy - merger almost 80% here - near cm.

74.8-80.6 Py/py - fine grained

80.6-81.9 See 71.5-74.8.

81.9-86.8 Py muscovite as as above and grey, as above. Thin dolomite - fluorite - sp - py veining to 10 mm max.

86.8-104.1 Py, siliceous and as mentioned beds to 5 mm, also in veinlets with muscovite, sp, carbonate, ? fluorite. Some weakly recrystallized ? ? py appears to be bioclastic beds ? evidence ? py originally ? 1 cm. Increased veining in upper 2.5 m - adjacent to contact

104.1-104.4 Py siliceous and as above, etc as above.

104.4-123.45 Py muscovite, po as beds to 2-5 mm - ? sp - carbonate - fluorite - py veining - ? small Stockwork - type fracture zones.

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