

Appendix 1

DETAILED LOG OF THE BÅTSFJORDFJELLET DRILLCORE

Metres, from/to	Rock description	Sample no.	Box no.
2.20	Mudstone, greenish-grey and maroon, with crinkled lamination, in places disrupted. Possible desiccation cracks present. Dip c. 60° at 4.15 m.		B1 3 m
<4.95 4.95-7.80 7.80-9.35	Maroon mudstone. Very fine-grained sandstone, pinkish-grey, laminated, partly with carbonate cement. Ditto, grading downwards into thin carbonate beds and laminae, with interbeds of claystone.		B2
Up to c. 11.50	Mudstone, grey-green, interbedded with yellowish-grey carbonate rock (dolomite?). Uneven and disrupted lamination. Dip c. 60°.	BA001 10.35-10.45	B3
11.50-12.55 12.55-13.00 13.00-13.40 13.40-14.30	Gradual transition into mudstone and fine-grained sandstone. Uneven, disrupted lamination. Dip 50°. Mudstone, maroon and grey with intraformational breccia. Interbedded fine-grained sandstone and mudstone. Maroon mudstone with subordinate thin beds of pelitic carbonate rock.		B3
14.30-15.50 15.50-19.05 19.05-19.55	Very fine-grained sandstone with minor, thin, pelitic carbonate and maroon mudstone. Dip 60°. Maroon mudstone with intercalations of fine-grained sandstone. Disrupted lamination and desiccation cracks present. Fine-grained sandstone, pinkish-grey with subordinate brecciated laminae of mudstone.		B4
19.55-21.05 21.15-21.90 21.90-24.00	Same as 19.05-19.55. Interlaminated maroon mudstone and grey, clayey mudstone. Dip 60°. Maroon claystone/mudstone with some intraformational brecciated layers.		B5
24.00-28.55	Same as 21.90-24.00 with an increasing number of sandy intervals.	BA002 c. 25.40	B6
28.55-29.10 29.10-30.80 30.80-33.55	Same as above. Maroon mudstone/claystone with intervals of microbreccia. Maroon, in part grey, fine-grained sandstone with intervals of maroon mudstone; interrupted lamination.	BA003 29.20-29.30	B7
33.55-35.50 35.50-39.50	Pink sandstone, mostly fine-grained, with mm-thin uneven and brecciated laminae of maroon and green-grey mudstone. A few <1 cm-thick laminae of carbonate are present. Mainly very fine-grained, pink-grey sandstone with laminae of maroon claystone which decrease		B8

	in number downwards. Mostly rubble.		
39.50-40.95 40.95-42.60	Same as above. Dip 60°. Very fine-grained sandstone, pink-grey with a few disrupted, mm-thin laminae of maroon claystone.	BA004 38.50-38.60	B9
42.60-47.15	Pinkish-grey, fine-grained, massive sandstone with scattered thin veins of quartz. Dip horizontal.		B10
47.15-52.50	Massive sandstone, pinkish-grey, fine-grained. Lamination ?horizontal.	BA005 (TS) 51.00-51.10	B11
52.50-53.40 53.40-56.40 56.40-57.10	Same as above. Dip 60°. Very fine-grained sandstone, pinkish-grey, with discontinuous muddy laminae. Dip 60°. Maroon mudstone/claystone with crinkled lamination and a few thin beds of sandstone.		B12
57.10-57.85 57.85-60.25 60.25-61.00 61.00-61.90	Same as above. Fine-grained, pink-grey sandstone with abundant but disrupted laminae of maroon mudstone. Greenish-grey, laminated, muddy sandstone, carbonate-cemented (dolomitic?) with a few laminae of dolomicrite. Dip c. 60°. Alternating, grey, fine-grained sandstone and maroon mudstone/claystone with subordinate carbonate beds. Dip c. 60°.	BA006 (TS) 60.55-60.65	B13
61.90-67.20	Pinkish-grey, fine-grained sandstone, massive to laminated, with laminae of maroon mudstone. Mud chips and a few calcite-filled cavities and veinlets also present. Dip c. 60°.		B14
67.20-71.90	Fine-grained sandstone, as above, mostly massive.	BA 007 70.75-70.85	B15
71.90-72.10 72.10-72.65 72.65-76.20 76.20-76.45	Sandstone, as above, massive. Maroon mudstone and grey sandstone, thin-laminated with abundant claystone fragments (intraformational breccia). Massive to poorly laminated pink-grey sandstone. Rubble of maroon and grey mudstone.		B16
76.45-78.80 78.80-79.70 79.70-81.50	Maroon mudstone/claystone, mostly massive. Grey sandstone with laminae of claystone and a few thin carbonate layers. Grey, fine-grained sandstone with laminae of dark-grey mudstone. Scattered 'spots' of a ferruginous carbonate mineral present.	BA008 77.00-77.10	B17
81.50-82.80 82.80-83.10 83.10-85.00 85.00-86.65	Massive sandstone. Rubble of maroon mudstone. Grey, fine-grained, laminated sandstone with green-grey or maroon laminae of mudstone. Fine-grained, grey sandstone with many disrupted laminae of mudstone, in places chaotic and microbrecciated. Dip 65°.		B18
86.65-88.85 88.85-89.70	As above; mostly maroon mudstone with disrupted and brecciated lamination. Grey-green, fine-grained sandstone with grey	BA009 88.30-88.40	B19

89.70-91.20	mudstone laminae. Dolomicrite(?) in upper part. Fine-grained sandstone and mudstone with disrupted lamination. Carbonate cement. Dip 65°.		
91.20-92.10	Fine-grained sandstone, massive, with some thin laminae of mudstone. Dip 65°.		
92.20-92.40	As above.	BA010 (TS)	B20
92.40-96.85	Maroon mudstone/claystone with intercalations of grey-green claystone. Laminae disrupted and partly microbrecciated.	94.20-94.30	
96.85-97.20	Grey sandstone with subordinate laminae of maroon mudstone. Dip 60°.		
97.20-100.10	Grey sandstone and thin laminae of maroon mudstone and thin beds of dolomicrite. Some sandstone beds have a carbonate cement.	BA011	B21
100.10-100.70	Maroon mudstone with a few sandy laminae.	100.40-	
100.70-101.05	Sandy dolomite(?), laminated, with specks of a rusty mineral.	100.55	
101.05-102.20	Fine-grained, sandstone, laminated, with carbonate cement.		
102.20-103.65	As above.	BA012 (TS)	B22
103.65-104.70	Maroon mudstone with subordinate beds of fine-grained sandstone. Dolomicrite(?) layers in the lowest c. 15 cm.	104.55-	
104.70-105.35	Grey sandstone and maroon mudstone, interlaminated.	104.65	
105.35-107.40	Grey, fine-grained sandstone, mostly laminated; lowermost part massive. Dip 70°.		
107.40-109.10	Fine-grained sandstone, laminated to massive.	BA013 (TS)	B23
109.10-109.60	Maroon lam. mudstone with sandstone interbeds.	109.95-	
109.60-112.20	Fine-grained grey sandstone, laminated to massive, lamination disrupted. Grading into mudstone in the lower parts.	110.05	
112.20-112.75	As above.	BA014	B24
112.75-117.35	Maroon mudstone with interbeds of grey sandstone, partly brecciated.	116.00-	
117.35-117.60	Mudstone as above.	116.10	
117.60-120.10	Grey sandy mudstone and pale-grey, thin-bedded sandstone, with calcite-cemented cracks.	BA015(TS)	B25
120.10-122.15	Grey sandstone and thin laminae of dark-grey mudstone (+ ?dolomicrite). Dip 75°.	119.60-	
122.15-127.10	Pale-grey to pink-grey, fine-grained sandstone with grey mudstone laminae. Carbonate cemented. Dip 70°.	119.70	
127.10-132.20	Grey, fine-grained sandstone, massive. Dip 50°.	BA016	B26
132.20-137.00	Grey, fine-grained sandstone, massive to partly laminated. Dip 65°.	126.05-	
137.00-140.00	Same as above.	126.15	
140.00-142.10	Maroon mudstone with subordinate intervals of grey sandstone. Disrupted lamination. Sandstone	BA017	B27
		126.05-.15	
		BA018	B28
		133.35-.45	
		BA019	B29
		141.50-	
		141.60	

	beds show channelling and some graded bedding.		
142.10-146.60	Mostly the same maroon mudstone as above. Dip 80°.	BA020 145.10-.15	B30
146.60-152.10	Same as above. Dip near vertical.	BA021 148.90-.00	B31
152.10-152.40 152.40-152.85 152.85-153.20 153.20-154.20 154.20-154.70 154.70-155.30 155.30-157.55	Mudstone, same as above. Grey sandstone, fine-grained. Maroon and pink-grey alternating mudstone, claystone and sandstone with disrupted laminae. As above but with more sandstone. Dip 70°. Rubble, gouge, probable brittle fault. Greenish-grey, fine-grained sandstone with disturbed muddy laminae; carbonate cement. Well laminated maroon mudstone and grey, fine-grained sandstone.	BA022 153.00- 153.10	B32
157.55-159.30 159.30-159.90 159.90-160.80 160.80-161.20 161.20-162.50	Same as above. Pale-grey and pink-grey sandstone with greenish-grey to maroon mudstone laminae. Mostly maroon mudstone with abundant clay laminae and intraformational breccia. Variegated greenish-grey and maroon mudstone. Interbeds of sandstone/mudstone with subordinate clay laminae and some dolomicrite. Dip 50°. Greenish-grey mudstone and fine-grained grey sandstone, poorly laminated.	BA023 (TS) 160.20- 160.30	B33
162.50-162.80 162.80-167.50	As above, but mostly rubble. Greenish-grey claystone interbedded with pinkish-grey sandstone. Lamination uneven with diverse, soft-sediment deformation structures. Subordinate carbonate-rich bands (Dolomicrite?). Dip from 70° to vertical.	BA024 165.80-.90	B34
167.50-172.50	As above. The borehole cuts through vertical strata. Soft-sediment deformation structures are very common.	BA025 169.00- 169.10	B35
172.50-175.20 175.20-176.00 176.00-177.20	As above but with more sandstone. Disrupted bedding common. Dip 50-80°. Rubble. Fine-grained grey sandstone with interbeds of grey claystone. Dip 60°.	BA026 176.90- 177.00	B36
177.20-179.25 179.25-181.00 181.00-182.35	Green-grey mudstone with a few disrupted thin beds or laminae of carbonate rock (dolomicrite?). Mostly variegated sandstone, carbonate-cemented. Maroon mudstone with disrupted layers of grey sandstone. Dip 70°.	BA027 182.00- 182.10	B37
182.35-182.70 182.70-187.50	Maroon mudstone as above. Pinkish-grey, fine-grained sandstone, carbonate-cemented, with crinkled laminae of maroon claystone.	BA028 187.00- 187.10	B38
187.50-191.65 191.65-192.80	As above, disrupted lamination common. Interbedded maroon mudstone and fine-grained	BA029 190.50-	B39

	grey sandstone. Disrupted lamination very common. Dip 70-80°.	190.60	
192.80-197.65	Same as above, in places more sandy. Dip 70°.	BA030 196.80-.90	B40
197.65-197.75 197.75-201.25	As above, but mostly rubble. Fine-grained, yellow-grey, laminated sandstone, greyer in colour lower down. Dip 60°.	BA031 198.60- 198.70	B41
201.25-204.50 204.50-205.45	Rubble of yellow-grey to green-grey sandstone. Fine- to coarse-grained sandstone with some muddy intervals and slump structures.	BA032 (TS) 205.05- 205.15	B42
205.45-208.40 208.40-208.60 208.60-209.55	Sandstone as above, pale-grey, with subordinate clay intervals. Upper 40 cm shows soft-sediment deformation structures. Dip 60-70°. Green-grey claystone, laminated, in part a rubble of yellow-grey to green-grey sandstone. Grey, fine-grained sandstone, laminated.	BA033 (TS) 205.65- 205.75	B43
209.55-214.90 214.90-215.15 215.15-215.55	Laminated sandstone and mudstone, variegated, partly with carbonate cement. Lowermost 50 cm mostly maroon mudstone. Dip 70°. Yellow-grey sandstone with maroon clay laminae, limonitic. Laminated grey sandstone and maroon mudstone.	BA034 213.95- 214.05	B44
215.55-216.30 216.30-219.00 219.00-219.30	Pink-grey to yellow-grey, medium-grained sandstone. Grey, fine-grained sandstone and mudstone, distinctly laminated, carbonate-cemented. Pinkish-grey, laminated, fine-grained sandstone, carbonate-cemented. Dip 50°.	BA035 (TS) 216.90- 217.00	B45
219.30-224.60	Sandstone as above, in places distinctly laminated. Dip 50°.	BA036 221.85-.95	B46
224.60-227.95 227.95-229.45 229.45-229.80	Fine-grained, laminated sandstone with maroon mudstone laminae. Carbonate cement. Lamination disrupted in places. Dip 65-70°. Variegated, partly yellow, limonitic sandstone with uneven muddy laminae. Fine-grained sandstone.	BA037 226.00- 226.10	B47
229.80-234.50	As above, mostly massive but laminated in places. From 230.00 to 231.05 the lamination is more distinct. Dip 60°.	BA038 231.05- 231.15	B48
234.50-236.45 236.45-238.50 238.50-239.30 239.30-241.55	As above. Fine- to medium-grained sandstone, variegated to yellow (limonitic), porous. Grey mudstone with sandstone laminae. Dip 55°. As above, but with a rubbly, greenish-grey, clay gouge at the base. F A U L T	BA039 238.00- 238.10	B49
241.55-244.40	Pink-grey sandstone, faintly laminated, medium-to coarse-grained; middle part mostly rubble.	BA040 (TS) 244.10-.20	B50
244.40-249.40	As above, medium- to coarse-grained sandstone with gritty intervals composed of diverse, rounded clasts.	BA041(TS) 247.00- 247.15	B51

249.40-251.15 251.15-254.05	As above. Pale-grey gritty sandstone, massive, in part a polymict granule conglomerate with diverse rock fragments. Dip c. 35°.	BA042 (TS) 254.00-.10	B52
254.05-259.70	Pale-grey and pink, gritty, feldspathic sandstone and polymict granule conglomerate with pink, grey and white pebbles. Dip c. 35°.	BA043 254.45- 254.55	B53
259.70-265.10	As above. Dip 35°, but this may be foreset beds in a cross-bedded unit.	BA044 254.45-.55	B54
265.10-265.50 265.50-270.10	Rubble of sandstone, as described above. Sandstone, as in B53. A c. 5 cm shaly interval occurs at 266.50.	BA045 266.95- 267.05	B55
270.10-275.00	As above. Rubble at 272.00-272.30. Dip c. 35°.	BA046 271.90-.00	B56
275.00-280.00	Pinkish- and greenish-grey sandstone, quartz-cemented, cross-bedded, coarse-grained or gritty with beds of granule conglomerate. Poorly sorted.	BA047 (TS) 279.50- 279.60	B57
280.00-285.50	As described above. Dip c. 30°.	BA048 283.15-.25	B58
285.50-291.70	As described above. Dip uncertain, c. 25°. Rubble at 288.70-291.00	BA049 287.20-.30	B59
291.70-295.90	As above. A c. 10 cm muddy interval at 292.70 with pebbles up to 1.5 cm across. Dip c. 30°.	BA050 291.70-.80	B60
295.90-301.00	As described above, coarse-grained sandstone. Muddy interval at c. 299.50 with dip c. 25°.	BA051 297.30-.40	B61
301.00-306.50	As described above, but colour now greenish-grey to pale maroon. Dip c. 25° at a muddy interval.	BA052 305.70-.80	B62
306.50-312.00	As described above. Dip 25° at a muddy interbed.	BA053 310.15-.25	B63
312.00-317.50	Pink and grey cross-bedded sandstone as described above, with a conglomerate in the lower 0.8 m; pebble size \leq 1 cm. Dip (foresets?) 25-30°.	BA054 313.00- 313.10	B64
317.50-322.40	Sandstone, pink-grey, in places greenish-grey, poorly sorted, coarse-grained to gritty and with a polymict granule conglomerate with distinct fragments of red jasper. Dip as above.	BA055 319.60-.70	B65
322.40-327.50	Sandstone and conglomerate as above, with two 10-15 cm-thick clay-rich intervals.	BA056 327.20-.30	B66
327.50-333.25	The same sandstone and conglomerate as above.	BA057 332.90-.00	B67
333.25-335.25 335.25-336.15 336.15-336.50 336.50-336.90 336.90-339.00	The same sandstone as above. Polymict conglomerate. Diverse clast types up to 2 cm in size, including red jasper. Poorly sorted. Sandstone as in box 65. Polymict conglomerate, matrix-supported. Sandstone as in box 65.	BA058 335.70- 335.80	B68
339.00-344.70	Sandstone, coarse-grained to gritty, poorly sorted, interbedded with a fine-grained polymict conglomerate, matrix-supported as in box 65.	BA059 341.40- 341.50	B69

344.70-350.15	Small-pebble conglomerate with sandy matrix, poorly sorted, interbedded with coarse-grained sandstone plus a few clasts up to 1.5 cm in size.	BA060 348.70-348.80	B70
350.15-351.15 351.15-354.70 354.70-355.60	Conglomerate with clasts of quartz and red jasper, etc., matrix-supported; matrix gritty. Coarse-grained sandstone with a few scattered pebbles and angular rock fragments. Polymict conglomerate, though mostly with subrounded pebbles of quartz, up to 4 cm in size.	BA061 351.15-351.25	B71
355.60-356.90 356.90-361.30	Oligomict conglomerate with quartz and a few ≤ 2 cm, jasper clasts. Quartz cement. Dip 25-30°. Sandstone, coarse-grained to gritty, and granule conglomerate with clasts of quartz and jasper. Mudstone interval at 358.90-.95.	BA062 359.70-359.80	B72
361.30-361.90 361.90-366.00 366.00-367.15	Sandstone as above with scattered small pebbles. Oligomict conglomerate with subrounded to rounded pebbles mostly of quartz, up to 4 cm in size, and a little jasper. Dip 40°. Coarse-grained sandstone with scattered granule-size clasts, poorly sorted. One minor interval of maroon mudstone.	BA063 365.05-365.15	B73
367.15-371.40	Coarse-grained, grey sandstone with sporadic small pebbles and a few <3 cm interbeds of maroon mudstone. Dip 30°.	BA064 370.00-.10	B74
371.40-376.60	Medium- to coarse-grained sandstone with a few <2 cm intercalations of claystone which have acted as slip planes. Rare small clasts at some levels, and a few quartz veins. Dip 30°.	BA065 375.10-375.20	B75
376.60-380.95 380.95-381.25 381.25-381.40	As above, coarse-grained sandstone, with a few scattered pebbles up to 1.5 cm in size. Maroon to green-grey mudstone with a few clasts. Coarse sandstone with a few small pebbles.	BA066 379.05-379.15	B76
381.40-387.20	Sandstone, pink-grey, medium- to coarse-grained, poorly sorted. Quartz cemented. Intervals of maroon mudstone 3-10 cm thick at 381.55, 383.40 and 383.70.	BA067 387.00-.10	B77
387.20-392.40	Sandstone as above, with one interval of greenish-grey fine-grained sandstone at 390.20-390.45. Tectonic disturbance at this level (<i>two photos</i>).	BA068 389.25-389.35	B78
392.40-397.10	Sandstone, fine- to coarse-grained, partly gritty, quartz cement, moderately/poorly sorted. Dip 30°.	BA069 340.00-.10	B79
397.10-402.80	As above, coarse-grained sandstone.	BA070 400.50-.60	B80
402.80-407.40	Sandstone, grey, coarse-grained to gritty, quartz-cemented, with a few granule-size rock fragments.	BA071 404.75-.85	B81
407.40-412.55	As above, but with some 3-6 cm-thick intervals of finer grained sandstone.	BA072 409.70-.80	B82
412.55-418.00	As above, very little variation. Dip c. 25°.	BA073 416.05-.15	B83

418.00-420.50	Sandstone. Medium- to coarse-grained, partly gritty, some <0.5 cm clasts. Quartz-cemented.	BA074	B84
420.50-420.85	Sandstone, dark-grey, fine-grained. Some very small-scale cross bedding. Partly rubble.	420.65-420.75	
420.85-423.35	Sandstone, medium- to coarse-grained, or gritty, a few clasts <0.5 cm. Quartz-cemented. A fine-grained interval at the base of the core in this box.		
423.35-426.40	Sandstone, as above.	BA075	B85
426.40-426.55	Fine-grained muddy sandstone with near-vertical cleavage.	427.65-427.75	
426.55-428.00	Sandstone, medium- to coarse-grained, feldspathic, quartz-cemented.		
428.00-433.25	Sandstone, as above, mostly coarse-grained, with two <3 cm beds of grey mudstone. Dip 25-30°.	BA076	B86
		432.20-.30	
433.25-434.00	As above.	BA077	B87
434.00-434.10	Fine-grained muddy sandstone with vertical cleavage.	437.90-438.10	
434.10-435.10	Coarse-grained sandstone, tectonically brecciated.		
435.10-436.70	Rubble of sandstone.		
436.70-438.10	Medium- to coarse-grained sandstone, quartz cemented.		
438.10-438.20	Fine-grained sandstone (see box 88)		
438.20-440.50	Green-grey, fine-grained, muddy sandstone, unevenly laminated with subordinate, coarse-grained intervals.	BA078	B88
		443.05-443.15	
440.50-443.40	Sandstone, medium- to coarse-grained, quartz-cemented, feldspathic, partly a grit or granule conglomerate. Dip 30°.		
443.40-446.60	As above, mostly coarse-grained. Dip 35°.	BA079	BA89
446.60-447.40	Sandstone, dark-grey, fine-grained, massive to faintly laminated.	447.10-447.20	
447.40-448.30	Medium-grained, grey sandstone.		
448.30-449.30	As above.	BA080	B90
449.30-453.15	Coarse-grained sandstone with many ≤ 7 cm clasts of mudstone arising from intraformational erosion. Much granule-size material lower down.	449.80-450.00	
453.15-453.80	Sandstone, med.- to coarse-grained, see box 91.		
453.80-455.40	As above, coarse-grained. Dip 40°.	BA081	B91
455.40-456.00	Rubble of sandstone.	456.15-456.25	
456.00-457.80	Medium- to coarse-grained grey sandstone. One 20 cm interval of dark-grey, laminated, muddy sandstone.		
457.80-458.10	As above.	BA082	B92
458.10-458.25	Sandstone, greenish-grey, muddy, fine-grained.	459.20-459.30	
458.25-458.45	Rubble of pink, medium-grained sandstone.		
458.45-458.60	Rubble of claystone.		
458.60-462.60	Mostly coarse-grained sandstone with clasts of intraformational claystone. Dip 35°.		
462.60-467.50	Feldspathic sandstone, medium- to very coarse-grained (gritty), quartz-cemented, with small	BA083	B93
		464.85-	

	clasts of mudstone. Dip 40°.	464.95	
467.50-472.40	Grey sandstone, fine- to coarse-grained, with a few, sharp, erosional bases to individual beds. Intercalations of a darker grey, laminated, muddy sandstone. 471.00-471.50 mostly rubble. Dip 35°.	BA084 469.20- 469.30	B94
472.40-477.50	Grey sandstone, medium- to coarse-grained with sporadic subangular clasts (≤ 3 cm) of very fine-grained sandstone. Dip 35°. A 10 cm bed of calcareous claystone (rubbly) at c. 476.00, and a muddy layer with calcite along bedding at 477.25.	BA085 474.65- 474.75	B95
477.50-479.15	Grey sandstone, medium-grained, finer grained lower down. Cross-bedding in uppermost metre with clasts of mudstone.	BA086 (TS) 482.20- 482.30	B96
479.15-481.30	Very coarse-grained sandstone, feldspathic, with subangular to subrounded fragments of mudstone 3 cm in size.		
481.30-482.80	REGIONAL UNCONFORMITY Mudstone, in part sandstone, grey to dark-grey, thin-bedded/laminated with many soft-sediment deformation structures. Dip 30°.		
482.80-488.50	Grey, fine-grained sandstone, dolomitic, massive to weakly laminated, interbedded with a laminated dolomitic mudstone with soft-sediment deformation structures. Dip 30°.	BA087 (TS) 487.80- 487.90	B97
488.50-493.55	As above, with white carbonate interbeds (dolomicrite?) up to 2 cm thick. At 491 m, colour changes to variegated, in part maroon (mudstone).	BA088 (TS) 490.70- 490.80	B98
493.55-499.70	Interbedded laminated maroon mudstone and grey, fine-grained sandstone. Lamination disrupted with a few small-scale faults (some may be syndimentary). Dip 20-25°.	BA089 497.50- 497.60	B99
499.70-504.10	Interbedded fine-grained, laminated, grey sandstone and maroon mudstone, as above.	BA090 501.00-.10	B100
504.10-509.60	As above, but here with an increasing volume of laminated maroon mudstone. Dip 30°.	BA091 507.00-.10	B101
509.60-514.80	As above, maroon mudstone and grey sandstone. Calcareous bed (2 cm) at 514.50. Dip 25-30°.	BA092 510.40-.50	B102
514.80-518.80	As above, but with pink-grey laminated sandstone in the lowest 2.5 m. Partly calcareous.	BA093 517.70- 517.80	B103
518.80-520.25	Rubble of fine-grained muddy sandstone.		
520.25-521.50	Sandstone, fine-grained, massive, calcareous.	BA094	B104
521.50-524.80	Laminated grey sandstone and maroon mudstone. Some small-scale cross-bedding in the sandstone. Lamination strongly disturbed. Dip 30°.	523.85- 523.95	
524.80-530.00	Predominantly laminated maroon mudstone. Subordinate sandstone intervals.	BA095 528.80-.90	B105
530.00-532.80	Interbedded variegated, pink-grey, fine-grained sandstone and maroon mudstone/claystone. Subordinate dolomicrite laminae and pink calcite veins. Deformed lamination in the lower 0.5 m.	BA096 533.10- 533.20	B106

532.80-535.50	Pinkish-grey, fine-grained sandstone, slightly calcareous, weakly laminated to massive. Dip 20°.		
535.50-540.90	As above, pink-grey sandstone with one unit of maroon mudstone in the upper part. Dip 25°.	BA097	B107
540.90-541.30	Maroon mudstone.	538.65-	
541.30-541.40	Pinkish-grey, fine-grained sandstone.	538.75	
541.40-545.65	Interbedded maroon mudstone and green-grey, fine-grained sand/siltstone, partly massive.	BA098	B108
545.65-546.10	Sandstone, grey, laminated, fine-grained.	545.75-	
546.10-546.70	Sandstone, as above, mostly coarse-grained.	BA099	B109
546.70-550.80	Variegated fine-grained sandstone/mudstone with disrupted maroon mudstone laminae.	548.00-	
550.80-551.40	Grey, fine-grained sandstone, lam. to massive.	548.10	
551.40-551.70	Maroon mudstone.		
551.70-554.90	Interbedded maroon mudstone and variegated, fine-grained sandstone with disrupted mudstone laminae. Dip 20-25°.	BA100	B110
554.90-555.10	Greenish-grey calcareous mudstone with subordinate laminae of dolomicrite.	554.00-	
555.10-556.80	Grey, laminated to massive sandstone, partly calcareous.	554.10	
556.80-557.20	Interbedded maroon mudstone and sandstone.		
557.20-557.25	Mudstone as above.	BA101	B111
557.25-557.85	Interbedded grey mudstone and fine-grained sandstone, some dolomicrite laminae; also slump structures.	558.10-	
557.85-559.50	Pink-grey sandstone, weakly lam., calcareous. Erosional contact at base with clay chips.	558.20	
559.50-562.60	Variegated, laminated, grey, fine-grained sandstone and mudstone. (<i>see photo of slump structures in the uppermost part of this box</i>)		
562.60-564.30	Fine-grained laminated, calcareous sandstone and maroon mudstone.	BA102	B112
564.30-566.10	Maroon lam. mudstone, with synaeresis cracks.	566.00-	
566.10-566.60	Interlaminated, fine-grained sandstone and maroon mudstone.	566.10	
566.60-566.80	Grey, laminated mudstone with dolomicrite laminae. Upper contact sharp, tectonised.		
566.80-568.00	Laminated, grey, fine-grained calc-sandstone.		
568.00-572.90	Sandstone, as described above. About 50% of the drillcore is rubble.	BA103	B113
572.90-573.80	As above, partly rubble.	570.80-	
573.80-578.10	Interbedded, variegated mudstone and fine-grained sandstone, with disrupted laminae of claystone. Intervals with soft-sediment deformation structures. Some calcite veins.	570.90	
578.10-583.50	Variegated, lam. sandstone and maroon mudstone. Laminae disrupted. A more massive, fine-grained sandstone bed at c. 581.10-581.70. Dip 35-40°.	BA104	B114
583.50-583.75	Variegated laminated mudstone and subordinate	575.90-	
		576.00	
		BA105	B115
		581.10-.20	
		BA106	B116

583.75-586.60 586.60-586.90 586.90-588.00 588.00-588.60	dolomicrite. Disrupted lamination. As above, with fine-grained sandstone, calcareous. Laminated, green-grey mudstone, claystone and dolomicrite. Fine-grained sandstone, unevenly bedded. Laminated sandstone and dark-grey mudstone.	588.50-588.60	
588.60-589.20 589.20-590.90 590.90-592.70 592.70-593.40 593.40-593.85 593.85-594.05	As above, with transition downwards to Grey sandstone with darker claystone interbeds. Laminated green-grey sandstone and subordinate mudstone and dolomicrite; massive at 591.75-.95. Variegated mudstone and sandstone. Grey, laminated, dolomitic claystone, fine-grained sandstone and clayey dolomicrite. Grey, laminated, fine-grained sandstone.	BA107 (TS) 593.50-593.60	B117
594.05-598.10 598.10-598.50 598.50-599.30	As above, laminated, with some maroon mudstone in the middle part. Dip 30°. Maroon, massive to laminated mudstone with thin sandstone beds in the lower part (partly rubble). Sandstone, fine-grained, grey, massive to weakly laminated, calcareous.	BA108 596.90-597.00	B118
599.30-604.25	Sandstone, pinkish-grey, massive, poorly laminated.	BA109 603.25-.35	B119
604.25-609.05	As above. Tectonised zone at 607.20-607.40 consisting of a friable gouge. This is a possible brittle fault. Dip c. 15°.	BA110 605.35-.45	B120
609.05-614.40	As above, with a few laminae and a 1 cm interval of maroon mudstone in the middle part. Dip 30°.	BA111 609.35-.45	B121
614.40-614.60 614.60-615.30 615.30-615.55 615.55-615.80 615.80-616.85 616.85-618.70 618.70-619.00 619.00-619.90	Sandstone as above. Grey and maroon mudstone, strongly tectonised (breccias and some gouge). Possible fault. Thin-bedded sandstone and maroon mudstone. Interbedded grey mudstone and grey dolomicrite. Laminated pale-grey sandstone with subordinate muddy maroon laminae. Greenish-grey lam. dolomicrite and mudstone. Sandstone, laminated, dip 45°. Maroon mudstone with a few sandy laminae and with soft-sediment deformation structures.	BA112 618.35-618.45	B122
619.90-630 ?	<i>Impossible to log correctly boxes 123 & 124 because of missing core (only 40% present) and incorrect or confusing depth numbering. The boxes contain pink-grey, fine-grained sandstone with maroon/grey mudstone and dolomicrite.</i>	BA113	B123 & B124
630.00-635.05	Pinkish-grey, fine-grained, laminated sandstone with scattered chips of maroon mudstone. Dip 30°. (OBS: broken box, some drillcore missing).	BA114 633.05-633.15	B125
635.05-635.40 635.40-636.30	Sandstone, as above. Interbedded green-grey, laminated mudstone, fine-grained sandstone and dolomicrite. Upper part tectonised.	BA115 (TS) 636.05-636.15	B126

636.30-640.50	Pink-grey, fine-grained, laminated and in part massive sandstone, weakly calcareous.		
640.50-643.45	As above, lowest 15 cm green-grey, laminated mudstone and weakly calcareous sandstone. 15 cm of maroon mudstone at and below 641.50.	BA116 643.50- 643.60	B127
643.45-643.80	Maroon mudstone, some slumping in lower part.		
643.80-644.05	Sandstone as in the highest part of this box.		
644.05-644.45	Maroon mudstone.		
644.45-645.00	Sandstone, as above. Dip 40°.		
645.00-651.50	Sandstone, as above, with a few mudstone chips. Mudstone layers at 650.00-.20 and 648.60-650.00.	BA117 650.05-.15	B128
651.50-656.50	Sandstone, pinkish-grey as above with subordinate intervals of maroon mudstone.	BA118 656.40-.50	B129
656.50-656.85	Maroon mudstone.	BA119 660.10- 660.20	B130
656.85-660.10	Pink-grey sandstone, massive, partly laminated, with a few mud chips. A variegated interval with dolomicrite laminae at 657.30-657.50.		
660.10-660.90	Laminated maroon mudstone, partly disrupted.		
660.90-662.30	Pinkish-grey, laminated sandstone.		
662.30-668.00	Pink-grey, fine-grained sandstone, massive to faintly laminated with two beds of mudstone. At 667.20, gradual transition downwards into lam. maroon mudstone with disrupted laminae.	BA120 666.70- 666.80	B131
668.00-668.20	As above, mudstone.	BA121 671.10- 671.20	B132
668.20-673.50	Pink-grey, fine-grained sandstone, massive to laminated with some chips and laminae of maroon mudstone. A few quartz veins in lowest 2 m.		
673.50-676.20	Sandstone, as above, with many quartz veins.	BA122 674.35- 674.45	B133
676.20-676.35	Maroon mudstone. Dip 25°.		
676.35-676.50	Pink-grey sandstone. (<i>Only 50% of the core in strip 4. No core at all in strip 5.</i>)		
678.45-679.00	Laminated maroon mudstone.		
679.00-679.40	Mudstone, as above.	BA123 679.90- 680.00	B134
679.40-682.00	Sandstone, grey, with subordinate intercalations of laminated mudstone. Dip 20-25°.		
682.00-683.50	Laminated maroon mudstone.		
683.50-684.00	Grey sandstone, weakly laminated.		
684.00-684.30	Pinkish-grey sandstone.	BA124 689.90- 690.00	B135
684.30-686.20	Laminated fine-grained sandstone, with mudstone at 685.10-686.40 and 685.90-686.00. Dip 30°.		
686.20-687.00	Maroon mudstone with sandstone beds up to 6 cm thick. Abundant soft-sed. deformation structures.		
687.00-688.00	Pink-grey, fine-grained sandstone.		
688.00-689.00	Laminated maroon mudstone.		
689.00-690.50	Sandstone, as above.		
690.50-692.15	Pink-grey, weakly laminated sandstone with mudstone chips in some beds. Dip 30°.	BA125 694.90- 695.00	B136
692.15-693.50	Maroon laminated mudstone with disrupted laminae. Some <10 cm-thick sandstone interbeds.		
693.50-696.00	Mostly pink-grey, fine-grained, laminated		

	sandstone with a few quartz and calcite veins, and two subordinate, <15 cm, mudstone intervals.		
696.00-697.00	Maroon mudstone with some greyish-maroon, fine-grained sandstone.	BA126 (TS) 698.75- 698.85	B137
607.00-699.00	Greenish-grey laminated mudstone and grey fine-grained sandstone and some dolomicrite. Soft-sed. deformation structures common. 15 cm bed of reddish sandstone. (<i>Obs! 1.5 m of core missing</i>)		
700.50-701.25	Greenish-grey sandstone and mudstone with a few laminae of dolomicrite.		
701.25-707.10	As above. Soft-sediment deformation structures are abundant. One maroon-grey unit at 704.40-704.70, otherwise grey sandstone and mudstone.	BA127 704.50- 704.60	B138
707.10-712.00	As above, but a bit coarser-grained and well lam. lower down. Abundant soft-sed. deformation structures, also with water-escape structures and synaeresis cracks.	BA128 707.45- 707.55	B139
712.00-712.60	Transition down into maroon mudstone.		
712.60-712.75	As above.	BA129 717.40- 717.50	B140
712.75-713.65	Sandstone, pink-grey, massive to weakly lam. with quartz and calcite veins. Lower 25 cm mudst.		
713.65-714.10	Variegated, calc., fine/medium-gr. sandstone.		
714.10-717.70	Alternating grey/pink-grey sandstone and maroon mudstone, with chips of mudst. in the sandstone.		
717.70-719.05	Pink-grey sandstone, fine-grained, calcareous, in places with many tiny chips of maroon mudstone.	BA130 722.00- 722.10	B141
719.05-719.60	Laminated maroon mudstone. Dip 30°.		
719.60-719.95	Pinkish-grey sandstone.		
719.95-720.90	Laminated maroon mudstone.		
720.90-723.60	Grey or pink-grey to maroon, lam., fine-grained sandstone, calcareous, with veins of quartz/calcite.		
723.60-725.90	Pink-grey sandstone, massive to laminated, partly calcareous with calcite and quartz veins.	BA131 724.90- 725.00	B142
725.90-726.45	Grey to maroon mudstone and sandstone. Fault with dip 70°, brecciated. Dip of bedding 25-40°.		
726.45-727.60	Grey to pink-grey sandstone, uneven lamination.		
727.60-729.00	Maroon lam. mudstone with some sandy intervals.		
729.00-729.10	As above.	BA132 733.70- 733.80	B143
729.10-731.40	Fine-grained sandstone with some maroon muddy laminae. Wavy lamination in middle part, mudstone fragments in lowermost part.		
731.40-731.60	Rubble of disrupted/tectonised mudstone.		
731.60-734.50	Grey, laminated sandstone, in part calcareous, rich in quartz and calcite veins.		
734.50-735.30	As above.		
735.30-736.50	Maroon mudstone, weakly laminated.	BA133 736.85- 736.95	B144
736.50-737.70	Grey, fine-gr. sandstone, partly calcareous.		
737.70-738.75	Laminated, greenish-grey mudstone and dolomicrite with soft-sed. deformation structures.		
738.75-740.00	Grey sandstone, calcareous, unevenly laminated.		

740.00-741.80	Grey sandstone and maroon mudstone with wavy and disrupted laminae.	BA134	B145
741.80-742.70	Variegated to green-grey sandstone with some dolomicrite laminae.	742.55-742.65	
742.70-745.20	Pink-grey sandstone and maroon lam. mudstone with soft-sed. deformation structures. Dip 25°.		
745.20-747.15	Maroon laminated mudstone with subordinate sandy intervals, e.g. at 745.80-745.95.	BA135	B146
747.15-750.80	Pale-grey to green-grey, fine-grained sandstone and mudstone, calcareous, ?dolomicrite laminae. Cavity fillings of calcite in middle part. Dip 30°.	749.85-749.95	
750.80-751.20	As above.	BA136	B147
751.20-754.75	Maroon lam. mudstone, a few sandy laminae.	753.95-754.05	
754.75-756.35	Pink-grey, fine-grained sandstone, laminated, in places with fragments of maroon mudstone.		
756.35-760.20	Fine-grained sandstone, massive to laminated, slightly calcareous; veins of quartz and calcite.	BA137	B148
760.20-761.60	Variegated fine-grained sandstone and mudstone, lamination wavy and disrupted; calcareous.	761.30-761.40	
761.60-762.10	As above.	BA138	B149
762.10-764.70	Maroon mudstone with wavy or disrupted lamination, a few thin beds of sandstone. Dip 20°.	764.65-764.75	
764.70-766.05	Transition into grey sandstone and maroon mudstone with soft-sed. deformation structures. Slightly calcareous. Sharp basal erosional contact.		
766.05-766.90	Mostly maroon laminated mudstone.		
766.90-769.40	Mudst. as above. Sandstone bed at 767.00-767.15.	BA139	B150
769.40-772.55	Green-grey, fine-grained sandstone and mudstone with abundant soft-sed. deformation structures. Some possible dolomicrite laminae.	770.75-770.85	
772.55-774.30	As above, but mostly rubble.	BA140	B151
774.30-776.50	Maroon mudstone, but poorly laminated.	776.75-776.85	
776.50-777.50	Grey sandstone, brittle and porous. Lower part mostly rubble.		
777.50-779.60	As above, first 2 m mostly rubble. Fine-grained sandstone, laminated in the lowermost 50 cm.	BA141	B152
779.60-781.20	Transition into maroon mudstone, massive to laminated, with disrupted laminae.	779.30-779.40	
781.20-782.10	Gradual transition downwards into pale green-grey, lam. sandstone and mudstone, with some thin dolomicrite beds. Many soft-sed. deformation structures, including water escape structures.		
782.10-786.00	As above, well laminated to massive, in part with chaotic soft-sed. deformation structures. Dip 30°.	BA142	B153
786.00-787.35	Maroon to grey-maroon mudstone to fine-grained muddy sandstone with many tiny chips of clay.	782.45-782.55	
787.25-788.55	Maroon mudstone, poorly laminated, with some fine-grained, laminated sandstone in lower 40 cm.	BA143	B154
788.55-790.50	Fine-grained grey sandstone with laminae of maroon and grey mudstone, and possibly	791.60-791.70	

790.50-791.00 791.00-793.00	dolomicrite. Some sstn beds are calcareous. Maroon mudstone with some sandstone laminae. Variegated, fine-grained sandstone and mudstone, uneven lamination, soft-sediment deformation structures present, partly calcareous.		
793.00-794.00 794.00-797.90 797.90-798.00	Distinctly laminated, dark-grey mudstone and pale-grey, fine-grained sandstone. Soft-sediment deformation structures present. Grey, fine-grained sandstone and greenish-grey mudstone; wavy/disrupted lamination. Dip 20°. Maroon mudstone, poorly laminated. Chaotic soft-sediment deformation structures lower down.	BA144 794.55- 794.65	B155
798.00-800.15 800.15-801.35	Mudstone, as above. Greenish-grey and pink-grey sandstone with interbeds of green-grey mudstone. Laminae disrupted, some possibly calcareous. <i>OBS! - The last c. 1 metre of core is fractured and rubbly. The exact base of the core is unknown.</i>	BA145 800.25- 800.35	B156