

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (≥5 mm) up to 10	Logged By:	Date:	Comments
			C	S	Sd	G	D				Sandra	8/24/23	
0													0-51 cm: dark reddish brown mud, soupy
2													- gradational lower
4													contact
6													- dark brown horizon
8													at 35-36 cm
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0-51 cm: dark reddish brown mud, soupy
- gradational lower contact
- dark brown horizon at 35-36 cm

51-85 cm: ^{dark} greenish grey sandy mud w/ dispersed clasts

51-53 cm: horizontal planar lamination
cm-scale, sand

62 cm: rock clast W half

85-128 cm: greenish grey mud, moderately bioturbated

- sharp lower contact

128-150 cm: dark greyish brown laminated mud
thinly laminated

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				Sandra	8/24/2023
Comments												
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I W

0-101 cm: very dark greyish brown to very dark grey laminated mud

- silt laminae at 50-59 cm

48-55 cm: mottling

101-143 cm: very dark grey laminated mud

101-109 cm: dark greenish grey color banding ~ 0.5 cm scale

0-143 cm: horizontal planar lamination throughout,

0-101 cm: very dark
greyish brown to very
dark grey laminated
mud

- silt laminae at 52-59 cm

48-55 cm: mottling

101-143 cm: very dark
grey laminated mud

101-109 cm: dark greenish
grey color banding
~ 0.5 cm scale

0-143 cm: horizontal
plane lamination
throughout,

100-01000-110-A SHEET 1204100												
CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				Sandra	8/24/2023
Comments												
0											0-95cm: very dark grey laminated mud, horizontal planar lamination, thinly laminated ~ 1mm scale	
-2												
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Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (≥5 mm) up to 10	Logged By:	Date:
		C	S	Sd	G	D				Sandra	8/24/2023
Comments											
										0-58cm: very dark grey laminated mud horizontal planar lamination, thinly laminated ~1mm-scale	

CM Scale

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100 CHS00A Z112-A CHET 1204174												
CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
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CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:	Comments
			C	S	Sd	G	D				BR	8/23/23	
0													↑ grayish medium brown mud, very homogeneous throughout entire section
-2													
-4													Simply nothing to see!
-6													
-8													↓
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Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (≥5 mm) up to 10	Logged By:	Date:
		C	S	Sd	G	D				BR	8/23/23
Comments											
							2				↑ grayish medium brown mud ↓ gradational lower contact of overlying lithology ↑ — distinct dark banding / mottling from here down dark banding dark gray mud dark banding w/ specks of very dark particle ↓

CM Scale

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Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
		C	S	Sd	G	D				BR	8/23/22
CM Scale 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 94 96 98 100 102 104 106 108 110 112 114 116 118 120 122 124 126 128 130 132 134 136 138 140 142 144 146 148 150 152 SS ↑ grayish medium brown mud w/ <u>very</u> faint darker <u>lams</u> Some specks of the dark material ↑ grayish med- brown inter laminated w/ sand and mud sand lams < 1cm thick											

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Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
		C	S	Sd	G	D				
	Fall. into stream									
	severely disturbed, voids, vertical roots	-	-	-	-	-			○ ○ ↓	31-33 cm, 1-2 mm clasts
	sandy mud	-	-	-	-	-				reddish ↑ color change ↓ grey
	→ make sure to get a little real sand grain on the ss	-	-	-	-	-				
	96-107 cm fine - sandy mud w/fine sand laminae	-	-	-	-	-				
	mud = light blueish grey sand = greyish brown	-	-	-	-	-				
	107-cm mud w/ < 25% sand	-	-	-	-	-				
	112-118cm black color banding/mottling.	-	-	-	-	-				

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10 cm	Logged By:	Date:
			C	S	Sd	G	D				L. Ives	24 Aug 23
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clast size + abundance
decreases upward

→ higher in x-ray

→ ss clasts (reddish)

→ Anne called this a "Baffin Bay Detrital Carbonate Event" BBDC?

sand = light greyish brown
clg = dark blueish grey
C 53 cm coarse sand laminae

clasts:

- mostly sand sized, some pebbles

- common colors are red, degraded ss + black sand grains. Pebble is fine ss-like

53-82 cm
massive mud

82-103 cm
interlaminated mud + sand, fining up?

103-108 cm
coarse ss bed

108-127 cm
interlaminated mud w/ common clasts + mud w/ dispersed clast

127-cm
stratified mud w/ abundant clast

Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (≥5 mm) up to 10	Logged By:	Date:
		C	S	Sd	G	D				L. Ives	24 Aug 2023
Comments											
										6-39 cm laminated mud	
										39-51 cm interlaminated mud + sand ↳ fining up ↳ grayish brown	
										51-71 → massive mud	
										71-72 → mud w/ abundant clasts	
										72-94 → mud w/ color banding	
										94-124	
										interlaminated sand + mud ↳ coarsening up	
										124-152	
										massive mud w/ common clasts gray	

Sharp contacts all the way down

100 C1000A CH-4 A CHET 1204208												
CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (≥ 5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				L. Ives	24 Aug 2023
											Comments	
0											0-45 cm → sandy w/ abundant mud clasts no clasts > 5mm, all sand-sized	
2										0		
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											45- end Mud w/ color banding gypsh red + redish grey	

Samples	Drilling Disturbance	Lithology	Bioturbation	Sedimentary Structures	Clast Count (≥ 5 mm) up to 10	Logged By:	Date:
		C S Sd G D				L.IVES	24 Aug 2023
						Comments	
						0-59 cm → massive mud	
						59-63 cm = sandy siltstone	
	up core ↑					63- end	
	↪					massive mud	
	90 ↓					under if color banding is detrital laminae or oxidizing front	
	fractures						

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (≥5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				L. Ives	24 Aug 23
0											Comments	
-2		UP								0		
-4		↓									0-42 cm massive mud	
-6		↘										
-8										0		
-10												
-12										0		
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-32										0		
-34												
-36										0		
-38												
-40										0		
-42												
-44										1	42-56 cm sandy mud w/ dispersed clasts	
-46												
-48		UP								1	lots of ss clasts/ counting as "clasts"	
-50		↘										
-52										1	56- mud massive mud w/ dispersed clasts	
-54												
-56										0	sandy mud w/ dispersed clasts	
-58												
-60										0		
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CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				L. Ives	24 Aug 23
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0-10cm: mud w/ sand stringer

10-25cm:
sandy mud w/
common clasts

25-59
interlaminated mud +
fine sand

Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
		C	S	Sd	G	D				L. Ives	24 Aug 2023
Comments											
0-12cm: massive mud											
12-20cm: sandy mud M											

Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (≥ 5 mm) up to 10	Logged By:	Date:
		C	S	Sd	G	D					
										Comments	
30										30-32 black disturbance	
39											
46										mud with sand layers black en red grains (3 clastes red)	
										very fine sand / interbedded mud.	
83											
SS											
106										mud	
										black disturbance	
115										very fine sand (black grains)	
127										mud	
										black disturbance	
144										very fine interbedded sand.	

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			C	S	Sd	G	D				Comments	
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CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
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-10									inter lam			
-12												
-14												
-16												
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-26												
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-38									inter lam			
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-42												
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-144												
-146												
-148												
-150												
-152												

Sand with
very fine sand.

med.
med / very fine sand,

med. + some coarse grain.
red.

very fine sand with
sand bed.

58-68: 5 clasts

↑ 86-88: coarse sand

med coarse coarse ge

127-137: 3 clasts ✓

137-147: 2 clasts ✓

cm

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				Comments	
0												
2												
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148												
150												
152												

grayish brown light

58

83

IW

coarse sand, yellow/brown

fine s.s.
fine sand / sand.~~interbedded~~
mud. / color banded

mud unifr.

interbedded
sand bed
mud matrix.

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				Comments	
0												
2												
4												
6												
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10												
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150												
152												

[illegible]

[illegible]

100 010000A 0111A SHEET 12040001												
CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				G. Grant	25 Aug 2023
			Comments 1st Core on Shift! ☺									
		XX DOO									Severe DD 1	
		R						NA			Grey Sandy Mudstone	
		L									0-50	
											</	

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				GG	25 Aug 2013
0											Comments	
-2											0-9: Interlaminated sandy mud + muddy sand	
-4											Laminae - sandier, sandy mud often dark (black)	
-6											discolored, grey - dark green	
-8											non-fossiliferous, poorly sorted	
-10											Clay - sand, no argillaceous crinoids?	
-12											9-148: Sandy mudstone	
-14											Dark grey - grey	
-16											Generally uniform w/ occasional irregular mud drapery, <0.5 cm	
-18											1 sheet appears	
-20											clast granitic 2-3 cm	
-22											1	
-24											clast 3 cm visually obscured	
-26											1	
-28											clast 2 cm	
-30											70-86	
-32											1	
-34											Diagenetic - black discoloring iron-sulphide	
-36											Not mud - sand	
-38											Mud or sand layers	
-40											Visual more sparse bedding but finer laminae on XRAY	
-42												
-44												
-46												
-48												
-50												
-52												
-54												
-56												
-58												
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-150												
-152												

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
			C	S	Sd	G	D				
-2											
-4											
-6											
-8											
-10											
-12											
-14											
-16											
-18											
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-132											

Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
		C	S	Sd	G	D				GA	25/Aug
										Comments	
										6-10 Mudstone, Grey/dark grey Light v. subtle color variation suggesting interlamination Some coarse texture p11. in Uniform clay - fs.	
										Non-fossiliferous No diagenetic or deformation	
										Lower contact - gradual - 5-10cm Planar	
										60-113: Interlaminated mud + Sand. Grey to pink clay - fine sand	
										Sands - granitic pink diagenetic oxidation block Sulphide.	
										LC - gradation over 5-10cm Planar.	
										113-150 Mudstone w/ Sand lenses, no trace clay - fine sand. poorly sorted granitic sands	
SS										Diagenetic block sulphide oxidation	

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				GG	25 Aug
0											0-150 : Mudstone, dark grey hi Sand lens. 0.5-1cm. (slightly greenish) Sand - granitic. 'Clasts' ✓ Diagenetically altered AS above.	
-2												
-4												
-6												
-8												
-10												
-12												
-14												
-16												
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CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				GG	25 Aug
											Comments: Carbonate bed 100cm	
0-20											0-20: Mudstone grey 5 sand lens. Grey - pink 2cm	
20-150											LL: gradational over 5-10cm 20-150cm: Interlaminated mudstone + fine sand. Grey - pink (sand) Frequency ~ laminated (mm) to 5cm spacing but laminar still fine scale (mm) Sands - granitic	
101-104	SS										101-104 - Primary whitish bed - reverse grading (green color)	
104-112	SS										104-112 interlaminated (0.5cm) HCL Acid test ✓✓ Sizzle. - SS detrital silt 'rounded' particles.	

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (≥5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				GG	25/Aug.
											Comments	
0											0-72: Interlaminated/ -Interbedded - mud - silty sand. Sand lenses thickening to >0.5m.	
2												
4												
6												
8												
10												
12												
14												
16												
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152												

[illegible]

Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
		C	S	Sd	G	D				
										0-150 Interlaminated Sand + Mud Grey alternates between highly visible laminations < 5mm to sections w/ laminae visible as color banding + every 8-10cm a thicker laminae whitish
									0 2 (3cm)	Some dispersed clast - red fine feldspar clustered but dispersed (not sure if drilling/split shifted).
									10 (2mm)	20-95 Less apparent

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:	Comments
			C	S	Sd	G	D				GG	25 Aug	
0													AS above
-2													
-4													
-6													
-8													
-10													
-12													
-14													
-16													
-18													
-20													
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-140													
-142													
-144													
-146													
-148													
-150													
-152													

G
G
G

15 mm

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				GG	25/Aug
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150												
152												

As above

Less apparent

[illegible]

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				TF	7/25/23
0											Comments Dom. by drilling disturbance	
-2												
-4												
-6												
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-146												
-148												
-150												
-152												

0-145

interlaminated
mud + sand

Medium Gray YR

Most of section
is disturbed

not interpretable

Sand laminae

are less prominent

62-100

140-145 - 1 clast
(red-brown)

Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (≥5 mm) up to 10	Comments
		C	S	Sd	G	D				
										Med Gray mud
										Entire section is highly disturbed.
										0-150
										M-gray interlaminated mud + sand

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				TF	8/25/23
0											mod gray med	
2		^									Entire section marked by drilling disturbance	
4		3										
6											0-73 interlaminated mud + sand	
8		^										
10												
12		3										
14												
16		^										
18												
20		3										
22												
24		^										
26												
28		3										
30												
32		^										
34												
36		3										
38												
40		^										
42												
44		3										
46												
48		^										
50												
52		3										
54												
56		^										
58												
60		3										
62												
64		^										
66												
68		3										
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72		^										
74												
76		3										
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84		3										
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88		^										
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108		3										
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128		^										
130												
132		3										
134												
136		^										
138												
140		3										
142												
144		^										
146												
148		3										
150												
152		^										

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[illegible]

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (≥5 mm) up to 10	Logged By:	Date:	Comments
			C	S	Sd	G	D				Gh	25 / Aug	
0		3											0-21: Interlaminated mud + muddy sand, grey greenish
2													
4													
6													
8													
10													
12													
14													
16													
18										5			20-30 Mudstone grey very subtle, featureless dispersed clasts
20													
22													
24													
26													
28													
30													
32													
34													
36													
38										6			30-41: Sandy mud & dispersed clasts 2mm clay - coarse sand. possibly stratified 1cm beds.
40													
42													
44													
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54													
56													
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148													
150													
152													

needs to be
added to the base

73-79 Whitish ismeat bed 2cm
not planar - undulating
3cm v. sandy bed under
dark grey, sandy.
Lower contact sharp
not undulating

Interlaminated mud +
muddy sand

Sands - whitish w grey/black
Specs = v. visible grains

dispersed clasts 127-120

16

1-2
large
lenticles
flow
1m

SS

Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:	Comments
		C	S	Sd	G	D				GG	25/Aug	
												Same 1.2.05 64
	2											0-31 Interlaminated mud & sand
	2											31-55 mud, grey uniform
	0											creamy white bleb dark 1cm layer under
	2											55-91 interlaminated mud & muddy sand (sandy layers) thicker beds at base 20-5cm - 1cm thinning upward.
	0											91-150 mud sand layers ~ mm greenish-grey to darker grey 2mm white blebs (acid test neg)

[illegible]

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				GG	25/Aug.
0											Comments 'Firmer'	
-2											0-15 mud, grey.	
-4											15-66	
-6											inter (stratified)	
-8											mud + sand	
-10											sand layers clear sharp base, a normal gradation upward. Slightly thicker.	
-12												
-14												
-16												
-18												
-20												
-22												
-24												
-26												
-28												
-30												
-32												
-34												
-36												
-38												
-40												
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-48												
-50												
-52												
-54												
-56												
-58												
-60												
-62												
-64												
-66	SS										66-102 inter laminae	
-68											mud + sand	
-70											less frequency	
-72											evenly	
-74												
-76												
-78												
-80												
-82												
-84	SS											
-86												
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-102											102-122	
-104											mud, grey.	
-106												
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-122											122-142	
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-152												

[illegible]

[illegible]

100-01000A CH 1A SHEET 12044101												
CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				TF	8/25/23
			Comments									
			med greyish yellow 7.54 becomes sl. darker ↓ Mud w/ sandy laminar + lenses - prominent 20-50 cm - absent 54-76 - prominent 76-130 - absent 130-140 - prominent below									
										2	7-80 black, pyritic	
											black, angular	

CM Scale

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Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (≥5 mm) up to 10	Logged By:	Date:
		C	S	Sd	G	D				TF	8/25/23
Comments											
TS	0-1						0	0-10	2	sand black blue 'clast' is unconsolidated sand gr w/ FeS ₂ coating	
								10-20	2	mod greyish yellow	
								20-30	2	* intertidal m/s 0-15 regular/rhythmic 0-46 102-120 less prominent elsewhere	
									0	Grey (FeS ₂) streaks: -22 -29	
									0	- Small clasts + sand disp. 50-103 cm	
								70-90	1	gran.	
									5	gran.	
									8	gran.	
										except!	
										61-104 mud w/sand	

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (≥ 5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				TF	8/25/23
0												
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148												
150												
152												

med. greenish yellow 2YR

0-30 mud
w/ disp. clasts

3 - 1 pebble

30-52

1/2 mud + sand

52-110

mud w sand

3 granule

110-135

1/2 lam mud/silt

135-148

mud w/ sand

reddish grey

around sand (irreg)

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:	Comments
			C	S	Sd	G	D				TF	8/25/23	
0													Greenish gray
2													throughout, except
4													63-75 calc.
6													interval is
8													light grayish
10													brown
12													note
14													
16													
18													
20													
22													
24													
26													
28													
30													
32													
34													
36													
38													
40													0-63 gr-gray mud
42													faint laminae
44													
46													
48													
50													
52													
54													
56													63-75 lt. grayish
58													brown
60													calc mud
62													
64													
66													
68													
70													75-150 grn. gray mud
72													- granule layers at
74													92
76													106
78													
80													- mud w/ sand at
82													80-85
84													108-120
86													
88													
90													
92													
94													
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98													
100													
102													
104													
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150													
152													

△ - cobble
(gneiss)

- oversized
clast

Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (≥ 2 mm) up to 10	Logged By: GG		Date: 25 Aug
		C	S	Sd	G	D				Comments		
									5	0-150: Green grey mud Featureless - Very little above silt zone w/ dispersed clay from well rounded iron Sandy bleb + clay		
									35			
									1	Yellow brown grey ↓		
									1			
									10			
									1			
									21			

[illegible]

Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (≥ 5 mm) up to 10	Comments
		C	S	Sd	G	D				
										0-25: Mud, green-grey very uniform except increasing sand beds. Some 1 cm thick white
										25-56: Underkinase mud + sand as above.
										56-77: Mud Pink Sands returning

Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (≥5 mm) up to 10	Logged By:	Date:
		C	S	Sd	G	D				CC	25/Aug
Comments											
							NA		NA	0-80 <u>mud</u> , grey Interlaminated <u>mud</u> + Sand (Less Apparent) laminae - color banding Small sand laminae Every ~10cm Sands - white w black specks, Sands - sandy M Sandy mud. —80-850 Interlaminated Sand + <u>mud</u>	

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (≥5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				ag	25 Aug
Comments												
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150												
152												

0-150 Interlaminated
mud + sand, grey

1cm sands in 5-10cm spacing
thinner laminae apparent in
xray.

always
→ not continuous.

high sands
sandy

sand bed 60-67

Drier sands
See gradational
beds
(normal)

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				AG	25 Aug
0											Comments	
-2											0-80 Interlaminated mud	
-4											+ sand	
-6												
-8												
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-152												

Sands scarp

80-122. Mud, grey

97-100
sand blebs - CaCO_3

122-150 Interlaminated
Pinkish grey sands

Samples	Drilling Disturbance	Lithology				Bioturbation	Sedimentary Structures	Clast Count (≥ 5 mm) up to 10	Logged By:	Date:
		C	S	Sd	G				D	GH
									Comments	
						NA		NA	0-150 Mud, grey Sand beds 0.5-1 cm	
									40-100 Interlaminated Mud + Sand normal graded sand laminae bed whitish	
									100-150 Mud, grey Sand beds + Color banding irregular	

CM Scale

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CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				GG	25/Aug
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-150												
-152												

GG

25/Aug

C-32 md, grey
15 sand laminae
colour banding
LESS APPARENT

-32 - 150
interlaminated
Mud + sand

Sands pass to normal grading.
5m

May be organised in "packages".

[illegible]

CM Scale	Samples	Drilling Disturbance	Lithology				Bioturbation	Sedimentary Structures	Clast Count (≥ 5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G				D	GG
Comments											
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0-GL
INTERLAMINATED
MUD + SAND

As above

Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
		C	S	Sd	G	D				CC	25/Aug
										INTERLAMINATED MUD + SAND	

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: <i>Sandra</i>	Date: <i>8/25/23</i>
			C	S	Sd	G	D				Comments	
0											Severely disturbed	
-2												
-4												
-6												
-8												
-10												
-12												
-14												
-16												
-18												
-20											78-150 cm: very dark grey silty clay with silt laminae 1-3 mm thickness with mm to cm spacing planar horizontal lamination; laminae have sharp bases 1 iron oxide? nodule at 147 cm intraclasts of muddy arkose? see smear slides	
-22												
-24												
-26												
-28												
-30												
-32												
-34												
-36												
-38												
-40											78-150 cm: very dark grey silty clay with silt laminae 1-3 mm thickness with mm to cm spacing planar horizontal lamination; laminae have sharp bases 1 iron oxide? nodule at 147 cm intraclasts of muddy arkose? see smear slides	
-42												
-44												
-46												
-48												
-50												
-52												
-54												
-56												
-58												
-60											78-150 cm: very dark grey silty clay with silt laminae 1-3 mm thickness with mm to cm spacing planar horizontal lamination; laminae have sharp bases 1 iron oxide? nodule at 147 cm intraclasts of muddy arkose? see smear slides	
-62												
-64												
-66												
-68												
-70												
-72												
-74												
-76												
-78												
-80											78-150 cm: very dark grey silty clay with silt laminae 1-3 mm thickness with mm to cm spacing planar horizontal lamination; laminae have sharp bases 1 iron oxide? nodule at 147 cm intraclasts of muddy arkose? see smear slides	
-82												
-84												
-86												
-88												
-90												
-92												
-94												
-96												
-98												
-100											78-150 cm: very dark grey silty clay with silt laminae 1-3 mm thickness with mm to cm spacing planar horizontal lamination; laminae have sharp bases 1 iron oxide? nodule at 147 cm intraclasts of muddy arkose? see smear slides	
-102												
-104												
-106												
-108												
-110												
-112												
-114												
-116												
-118												
-120											78-150 cm: very dark grey silty clay with silt laminae 1-3 mm thickness with mm to cm spacing planar horizontal lamination; laminae have sharp bases 1 iron oxide? nodule at 147 cm intraclasts of muddy arkose? see smear slides	
-122												
-124												
-126												
-128												
-130												
-132												
-134												
-136												
-138												
-140											78-150 cm: very dark grey silty clay with silt laminae 1-3 mm thickness with mm to cm spacing planar horizontal lamination; laminae have sharp bases 1 iron oxide? nodule at 147 cm intraclasts of muddy arkose? see smear slides	
-142												
-144												
-146												
-148												
-150												
-152												

Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (≥5 mm) up to 10	Logged By:	Date:
		C	S	Sd	G	D				Sandro	8/25/2023
Comments											
											0-67cm: very dark and grey laminated silty clay; silt to very fine sand laminae
											15-44cm: package of thicker very fine sand laminae up to 1cm in thickness
											Sharp lower contact
											67-85cm: dark greenish grey silty clay
											- dispersed sand grains
											- possible bioturbation
											- Sharp lower contact
											85-150cm: very dark grey laminated silty clay
											1-3mm thick silt laminae
											121-123cm: cemented interval, concretion

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				Sandra	8/25/2023
0											Comments	
2												
4											0-150 cm: very dark grey laminated silty clay; silt laminae are up to 1 cm thickens, some fine sand lami- nae present as well	
6												
8											~13 cm: dark color band	
10												
12												
14												
16												
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94												
96												
98												
100												
102												
104												
106												
108											108-122 cm: iron oxide? nodules	
110												
112												
114												
116												
118												
120												
122												
124												
126												
128												
130												
132												
134												
136											137-143 cm: thicker ~1 cm sand laminae, sharp based, possibly graded	
138												
140												
142												
144												
146												
148												
150												
152												

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				Sandra	8/25/2023
Comments												
0											0-150cm: very dark grey laminated silty clay; silt and sand laminae up to 0.5cm thickness laminae are up to fine sand with sharp bases	
-2												
-4											7-9cm: iron oxide? bleby nodules, mm-scale	
-6												
-8												
-10												
-12												
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-94												
-96											95-96cm: isolated clast ~ 1.5cm in length, granite, faceted	
-98												
-100												
-102												
-104												
-106												
-108											106-108cm: iron oxide? nodule	
-110												
-112												
-114												
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Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
		C	S	Sd	G	D				Sandra	8/25/2023
Comments											
											0-144 cm: very dark grey laminated silty clay laminae are fine sand up to ~1cm thickens with sharp bases
											30-46 cm: iron oxide? blebs/nodules

CM Scale

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IW

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				Sandra	8/25/2023
Comments												
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152												

95
79
iron
oxide

0-88cm: very dark grey laminated silty clay; fine sand laminae at regular ~1cm intervals, 0.1-0.5cm thickness, sharp based

-dark bands (black) at 16, 67, 136 and 139cm

-78-82cm: iron oxide? nodules/blebs

66-67cm: black nodules/blebs (pyrite?)

88-150cm: very dark grey mud with silt and sand laminae; laminae are thinner and less numerous than above (faint lamination below 130cm)

0-88cm: very dark grey laminated silty clay; fine sand laminae at regular ~1cm intervals, 0.1-0.5cm thickness, sharp based

-dark bands (black) at 16, 67, 136 and 139 cm

-78-82cm: iron oxide? nodules/blebs

66-67cm: black nodules/blebs (pyrite?)

88-150cm: very dark grey mud with silt and sand laminae; laminae are thinner and less numerous than above (faint lamination below 130cm)

5-8
7-9
iron
oxide

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				Sandra	8/25/2023
Comments												
0												
-2												
-4												
-6												
-8												
-10												
-12												
-14												
-16												
-18												
-20												
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-40												
-42												
-44												
-46												
-48												
-50												
-52												
-54												
-56	SS											
-58	SS											
-60	pyrite?											
-62												
-64												
-66	SS											
-68	69											
-70	mud											
-72												
-74												
-76												
-78												
-80												
-82												
-84												
-86												
-88												
-90												
-92												
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-146												
-148												
-150												
-152												

0-56 cm: greyish green faintly laminated mud

dark (black) bands at 2 and 4 cm

silt laminae at 10 and 16 cm

43 cm: dark grey stain

46-53 cm: color banding

49-50 cm: iron oxide? blebs/nodules

55-60 cm: pyritized sand bleb w/ black grains

57-62 cm: pebble ~3 cm

56-66 cm: muddy sand, sharp-based

66-76 cm: greyish green mud w/ dispersed clasts

light grey color

W-half ↑

diorite

0-56 cm: greyish green
fairly laminated
mud

dark (black) bands
at 2 and 4 cm

silt laminae at
10 and 16 cm

43 cm: dark grey stain

46-53 cm: color banding

49-50 cm: iron oxide?
blebs/nodules

55-60 cm: pyritized
sand bleb w/ black grains

57-62 cm: pebble ~3 cm, diorite

56-66 cm: muddy sand, sharp-beded

66-76 cm: greyish
green mud w/ dispersed
clasts

light grey
color

w-half

↑

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				Comments	
0											color banded mud.	
-2											12cm - 1 big clast (tan & black)	
-4											greyish - green light.	
-6												
-8												
-10												
-12												
-14												
-16												
-18												
-20												
-22												
-24												
-26												
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-148												
-150												
-152												

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				Comments	
0											brown greyish light med. color bottomed 55cm: 1 clast 68.5: 1 clast 73.5 1 clast (white) 124-134 cm: 2 clasts (block (pocket of sand) clast 128-130 cm) clast 146 cm: 1 white glass clast 1 big clast	
-2												
-4												
-6												
-8												
-10												
-12												
-14												
-16												
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-146												
-148												
-150												
-152												

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				Comments	
0												
2												
4												
6												
8												
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148												
150												
152												

greenish grey mud.
color banded.

20: 1 clast white

44a: 1 clast

53a: 1 clast

64a: 1 clast

69a: 1 clast

with abundant clasts. (redist.)

mud with interbedded
yellow light

with abundant clasts.

mud with ^{common} abundant
clasts.

mud with s-d.
interlan

color banded. (black).

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				Comments	
0												
-2												
-4												
-6												
-8												
-10												
-12												
-14												
-16												
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-140												
-142												
-144												
-146												
-148												
-150												
-152												

inter
la.mud and sand
interla.

greyish brown light.

+ color banded

80-90m: abundant
clasts (red)

mud

inter
la.

mud & sand interla.

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				Comments	
0												
-2												
-4												
-6												
-8												
-10												
-12									inter			
-14									bed			
-16												
-18												
-20												
-22												
-24												
-26												
-28												
-30												
-32												
-34												
-36												
-38												
-40												
-42												
-44												
-46												
-48												
-50												
-52									inter			
-54									bed			
-56												
-58												
-60												
-62												
-64												
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-68												
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-114												
-116												
-118									inter			
-120									bed			
-122												
-124												
-126												
-128												
-130												
-132												
-134												
-136												
-138												
-140												
-142												
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-148												
-150												
-152												

brown gray light

49

63

82

115

IW

interbedded sand / mud.

color banded (black)

mud.

mud / sand interbed.

color banded.

mud.
color bandedsand
muddy with disperse clast
in mud.inter
bed

mud / sand interbed.

color banded

[illegible]

[illegible]

[illegible]

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (≥5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				BR	8/25/23
											Comments	
0								0			Moderately to highly disturbed throughout; Some flow-in along sides and prominent up-arching	
-2												
-4												
-6												
-8												
-10												
-12												
-14												
-16												
-18												
-20												
-22												
-24												
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-138												
-140												
-142												
-144												
-146												
-148												
-150												
-152												

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:	Comments
			C	S	Sd	G	D				BR	8/25/23	
0								0?					Slightly to moderately disturbed throughout (less so than overlying section I, but similar up-arching and flow-in)
-2													
-4													
-6													
-8													
-10													
-12													
-14													
-16													
-18													
-20													
-22													
-24													
-26													
-28													
-30													
-32													
-34													
-36													
-38													
-40													
-42													
-44													
-46													
-48													0-48: interbed mud + sand w/ sand 'blobs' (formed w/ disturbance?) and dispersed clasts
-50													
-52													
-54													
-56													
-58													
-60													
-62													
-64													
-66													
-68													
-70													
-72													
-74													
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-138													
-140													
-142													
-144													
-146													
-148													
-150													
-152													

CARB

25% 3/2
Yellow-dark grayish

93-101: interbed sand + mud

mud

113 → 150: interbed sand + mud

Cm Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				BR	8/25/23
											Comments	
0								1			Slightly disturbed near most of section; moderately disturbed in lower part	
-2												
-4											0-112: mud w/ some thin (<0.5cm) sand layers but not enough to be interlaminated mud/sand a few sand blobs and a handful of dispersed small clasts (a few red ones)	
-6												
-8												
-10												
-12												
-14												
-16												
-18												
-20												
-22												
-24											yellow-dark-grayish	
-26												
-28												
-30												
-32												
-34												
-36												
-38												
-40												
-42												
-44											112-144: interlaminated mud/sand less sand than usual interlaminated facies	
-46												
-48												
-50												
-52												
-54												
-56												
-58												
-60												
-62												
-64											IW	
-66												
-68												
-70												
-72												
-74												
-76												
-78												
-80												
-82												
-84												
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-138												
-140												
-142												
-144												
-146												
-148												
-150												
-152												

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				BR	8/25/23
0								1			Comments	
2												
4											Slightly disturbed throughout	
6												
8											19: sand blob and clast cluster (side-by-side)	
10										1		
12												
14												
16												
18												
20												
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26												
28												
30												
32												
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152												

149: sand blob

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				Comments	
0								1			Slight to no disturbance	
2												
4											Yellow-dark-grayish mud Throughout the section	
6												
8											up to ~1cm sand	
10												
12											blobs/blebs @ 40, 47, 48, 52, 55, 77	
14												
16												
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150												
152												

CARB

90

↑

grayish-greenish-dark

↓

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (≥5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				BR	8/25/23
-0												
-2												
-4												
-6												
-8												
-10												
-12												
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-152												

grayish-green-dark
mud

PAL: 16-20cm

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				L. Ives	25 Aug 23
											Comments: Damaged Core Liner	
0												
2												
4												
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12												
14												
16												
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148												
150												
152												

SS
@ 7.5
(black
mud)

Strong
fracture

4.5cm

Slight

up
turn

@ 7cm → coal/organic clast?

Interlaminated mud + sand, mud dominant
laminar
sand has sharp lower contacts
and grade into mud.

clasts are not clearly associated
w/ other features

mud is dark grey

@ 108-112 → mud w/ dispersed
clasts

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				L. Jves	25 Aug 23
											Comments Shattered core liner	
-2		Start						○		1	Lithology same as last core, color the same	
-4										0-10		
-6										/		
-8									lum.	/		
-10										/		
-12										/		
-14										/		
-16										/		
-18										/		
-20										/		
-22										/		
-24										/		
-26										/		
-28										/		
-30										/		
-32										/		
-34										/		
-36										/		
-38										/		
-40										/		
-42										/		
-44										/		
-46										/		
-48										/		
-50										/		
-52										/		
-54										/		
-56										/		
-58										/		
-60										/		
-62										/		
-64										/		
-66										/		
-68										/		
-70										/		
-72										/		
-74										/		
-76										/		
-78										/		
-80		83cm								80-90		
-82		slight								3	mel @ 80-89 w/ dispersed clasts	
-84										/		
-86										/		
-88										/		
-90										/		
-92										/		
-94										/		
-96										/		
-98										/		
-100										/		
-102										/		
-104										/		
-106										/		
-108										/		
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-116										/		
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-128										/		
-130										/		
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-140										/		
-142										/		
-144										/		
-146										/		
-148										/		
-150										/		
-152										/		

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (≥5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				L. Ives	25 Aug 23
											Comments	
0		Shag	+								Shattered ore liner	
2			+								interlam	
4			+								mud + sand contact	
6			+									
8			+									
10			+									
12			+									
14			+									
16			+									
18			+									
20			+									
22			+									
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70			+									
72			+									
74			+									
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82			+									
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144			+									
146			+									
148			+									
150			+									
152			+									

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				L. Ives	25 Aug 23
0												
-2												
-4												
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-152												

5

30

1

40

6

50

1

60

100

110

8

120

10

130

2

Some as previous

interlam mud + sand

@ 44-48 cm mud w/ common clasts

@ 101-103 cm → laminated mud

@ 103-127 cm

Massive clast Rich ^{muddy} DM

@ 127-131 cm

→ stratified mud w/ cc

134-147

interlaminated mud + sand

No

100 Recovery

100

I W

[illegible]

[illegible]

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				Comments	
0												
-2												
-4												
-6												
-8												
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Massive
Homogeneous mud