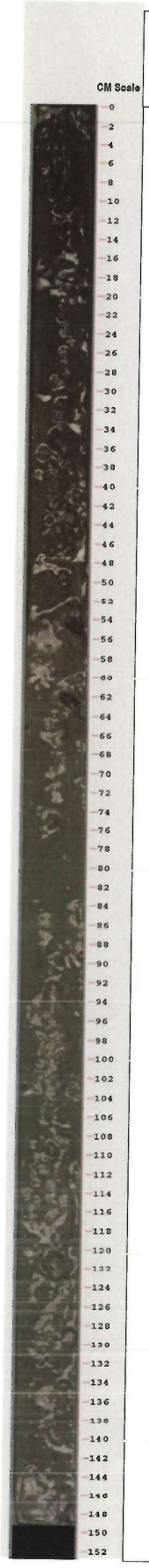
400-U1607A-1R-1-A | SHLF12721221



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
	0	→	serpulid tubes		
	0				
	0				
	0				
	✓				

Logged By: TF

Date: 9/16/23

Comments

0-base: mud soup.

0 – 23 cm dark brown*

23 – 66 cm med. brown

66 cm - base med gray

* no x-ray or SHMSL

clay-ey



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	

0-basal: med grey mud clay-cly

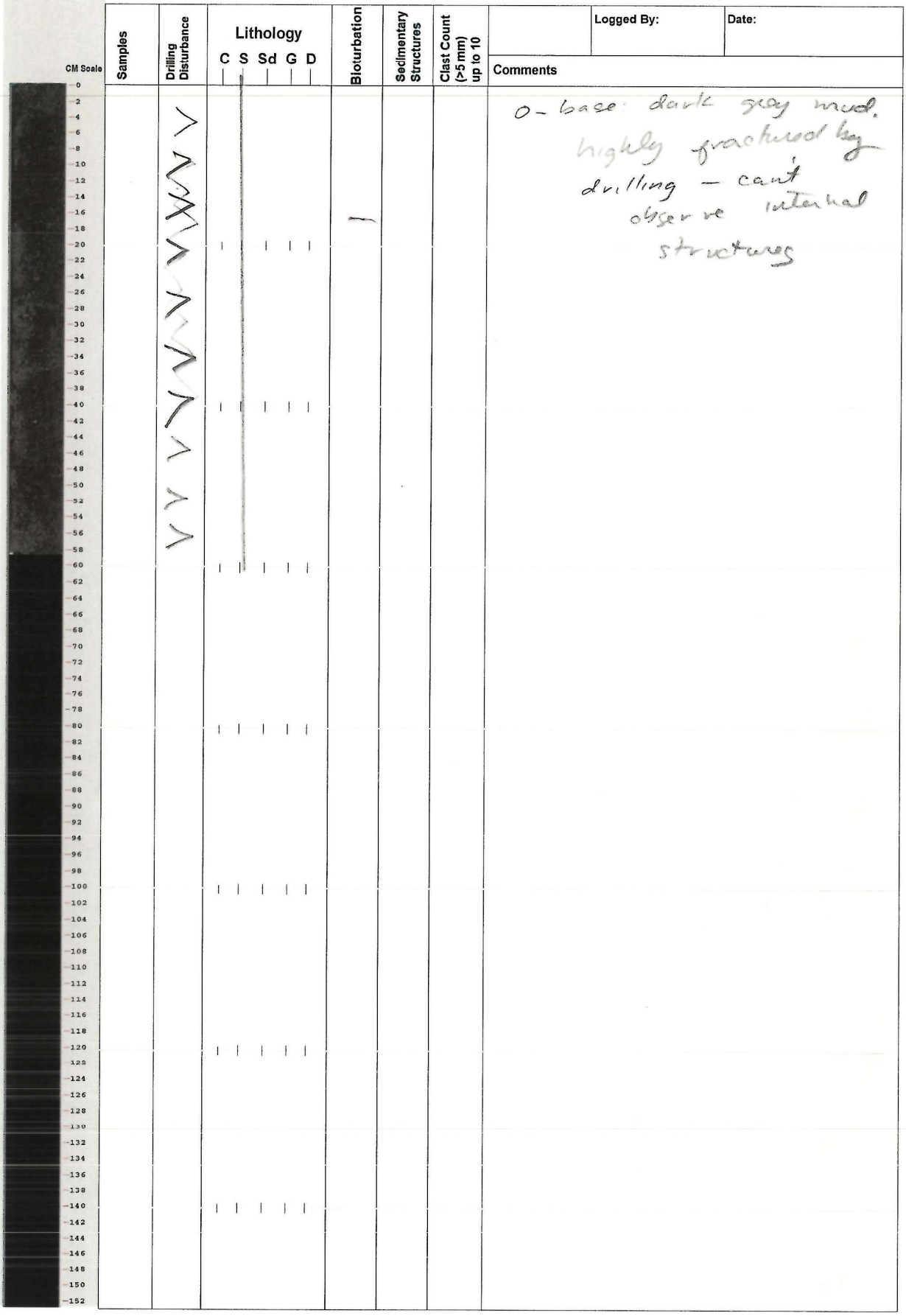
No X-ray or SHMSL



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0							
2							
4		0					0-25 cm med grey mud
6							
8							
10		0					
12							
14							
16							
18		0					
20							
22							
24		0					
26							25-57 cm: med grey sandy mud
28							
30							
32							
34							- darkens downward,
36							
38							
40							becomes gradually more lithified
42							
44							
46							
48							~~~ hiatus?
50							
52							57-base: dark grey mud.
54		- 56 cm					
56							
58							
60							- noticeably more lithified
62							
64							
66							
68							
70							- stiff by 77 cm
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							

Logged By:

Date:


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Date:
Comments
0 - base: dark gray mud, highly fractured by drilling — can't observe internal structures



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	

0 - base; dark grey massive mud moderately disturbed

Logged By: BR

Date: 9/16/23

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152				3			slight disturbance (fracturing) throughout Clay I - 10Y - 2.5 mud w/: - 1-3mm black flecks that are typically sub-horizontal - 0.5-1.0 cm elongate ovals w/ black rim and mud-colored interior; some appear very 'flattened' - rare white grains (near the base); quartz-rich - white-rimmed 2-3mm diameter circles to ovals Moderate bioturbation throughout w/ some intervals of 'common' (higher degree) maybe some very faint stratification to color banding, but not prominent enough for GEOTEC designation

Logged By: BR

Date: 9/16/23

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152				3			Slight disturbance (fracturing) throughout Same mud lithology and fractures as Section 1, but also with: - slightly higher proportion of isolated sand grains - One 4-cm sized clast (granitic?) @ 102cm - 3cm-long, tan-filled elongate oval burrow(?) w/ 'sheets' on the interior

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: BR	Date: 9/16/23
							Comments	

3

slight disturbance (fractured) throughout

Same color/lithology and features as Sections 1-2, but maybe a slightly higher proportion of dispersed vf sand grains (?)

moderate bioturbation throughout

Logged By: BR

Date: 9/16/23

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152				3			Slight disturbance (fractured) throughout 0–45: same mud color/lithology and features as overlying section that changes gradationally downcore to... 45–98: silty mud w/ dispersed clasts 10YR 1/2 (grey-dark brown); mostly sand-sized but w/ rare larger clasts 74–80: intricately fractured dark brown material 98–135: muddy sand w/ dispersed clasts (grains, really; only 1 >5mm) 136–end: 6 cm-long clast
				0		1	
						1	
						1	
IW							

Logged By: BR

Date: 9/16/23

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152				2		1 (0–50); 1 (50–base)	Slight (fractured) disturbance throughout 0–50: Grey 1 - 2.5/5GY greenish-gray-dark sandy mud w/ rare dispersed clasts ↓ Very gradational downcore change to... ↓ 50–base: greenish-gray-medium sandy mud w/ dispersed grains (not as sandy as 0–50)

400-U1607A-2R-6-A | SHLF12722041

Logged By: BR

Date: 9/16/23

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152				3			Slight (fractured) disturbance throughout Gley 1 -10Y- 2.5 greenish-gray- medium sandy mud w/ dispersed grains (nothing >5 mm) large (>5 cm) oval subhorizontal tan-filled burrows @ 90 and 103 cm

Logged By: BR

Date: 9/16/23

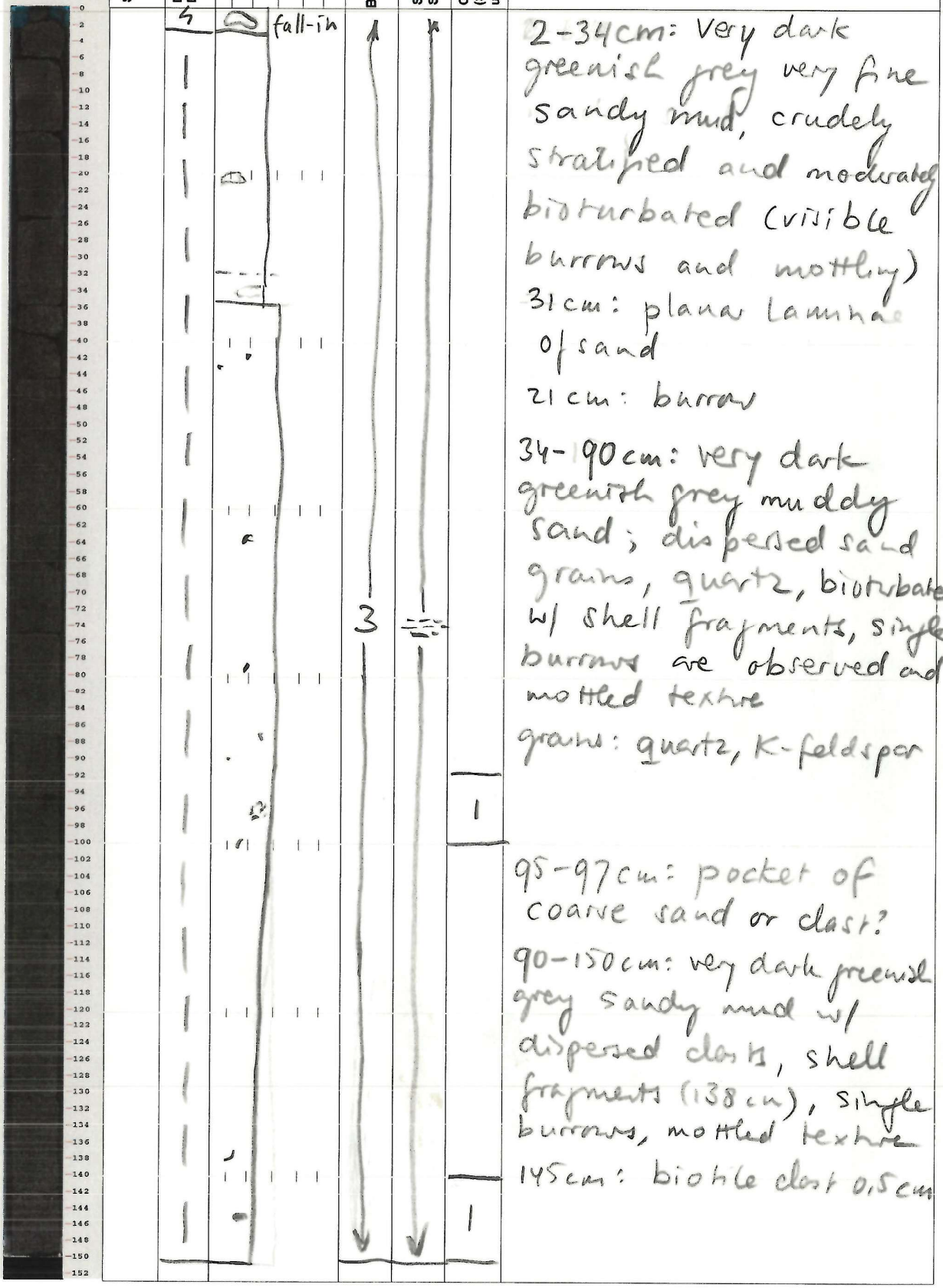


CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–70				3			slight (fractured) disturbance throughout
20							greenish-grey-mudst sandy mud w/ disp. clasts
40							moderate bioturbation throughout
50							tan-filled burrows @ 11 and 21 cm
60–70						2	dispersed clasts @ base of section
80							
100							
120							
140							

400-U1607A-3R-1-A | SHLF12722501

Logged By: Sandra

Date: 9/16/2023



Comments

2-34cm: Very dark greenish grey very fine sandy mud, crudely stratified and moderately bioturbated (visible burrows and mottling)

31cm: plane laminae of sand

21cm: burrow

34-90cm: very dark greenish grey muddy sand; dispersed sand grains, quartz, bioturbated w/ shell fragments, single burrows are observed and mottled texture

grains: quartz, K-feldspar

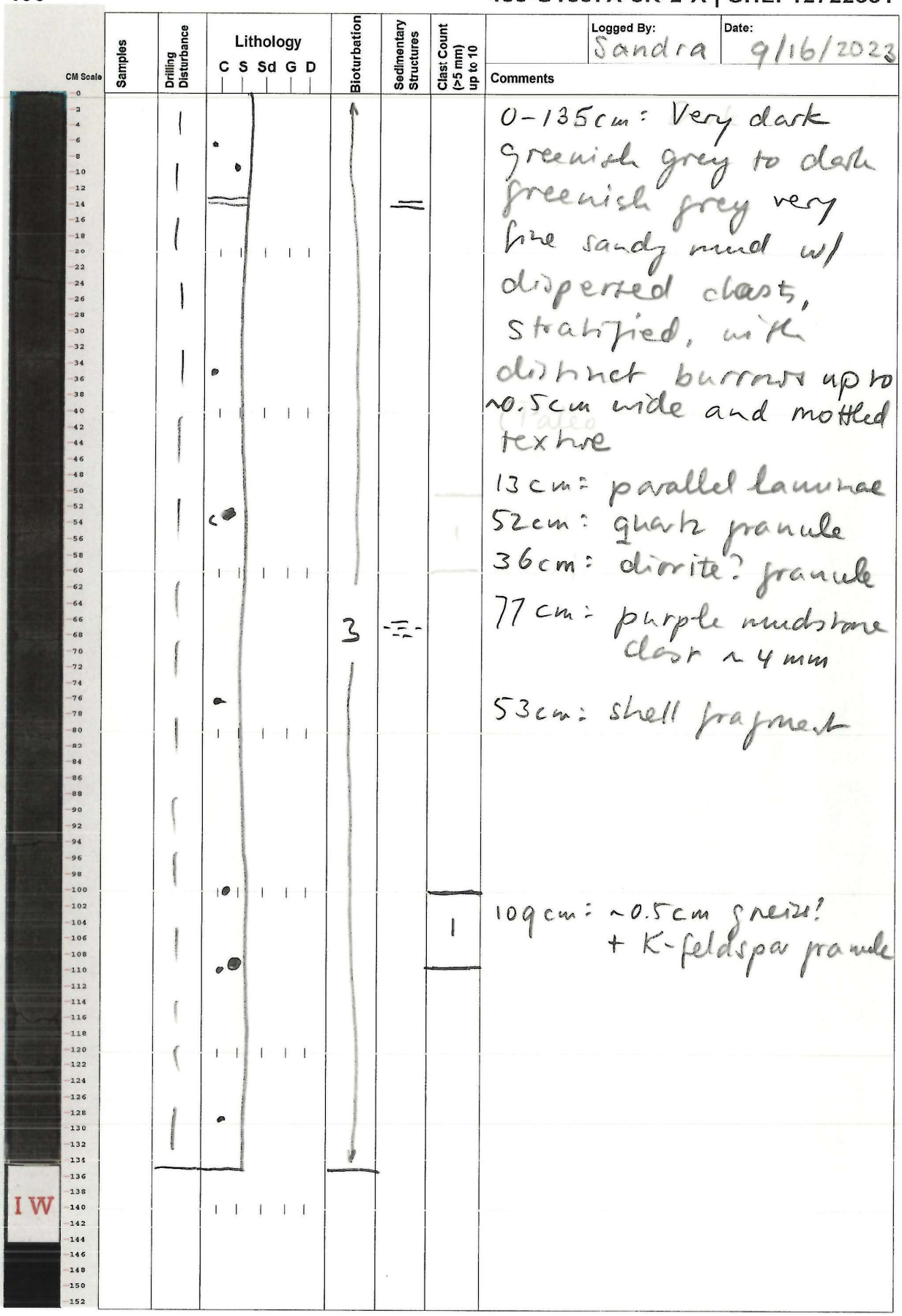
95-97cm: pocket of coarse sand or clast?

90-150cm: very dark greenish grey sandy mud w/ dispersed clasts, shell fragments (138cm), single burrows, mottled texture

145cm: biotite clast 0.5cm

Logged By: Sandra

Date: 9/16/2023



Comments

0-135cm: Very dark greenish grey to dark greenish grey very fine sandy mud w/ dispersed clasts, stratified, with distinct burrows up to ~0.5cm wide and mottled texture

13cm: parallel laminae

52cm: quartz granule

36cm: diorite? granule

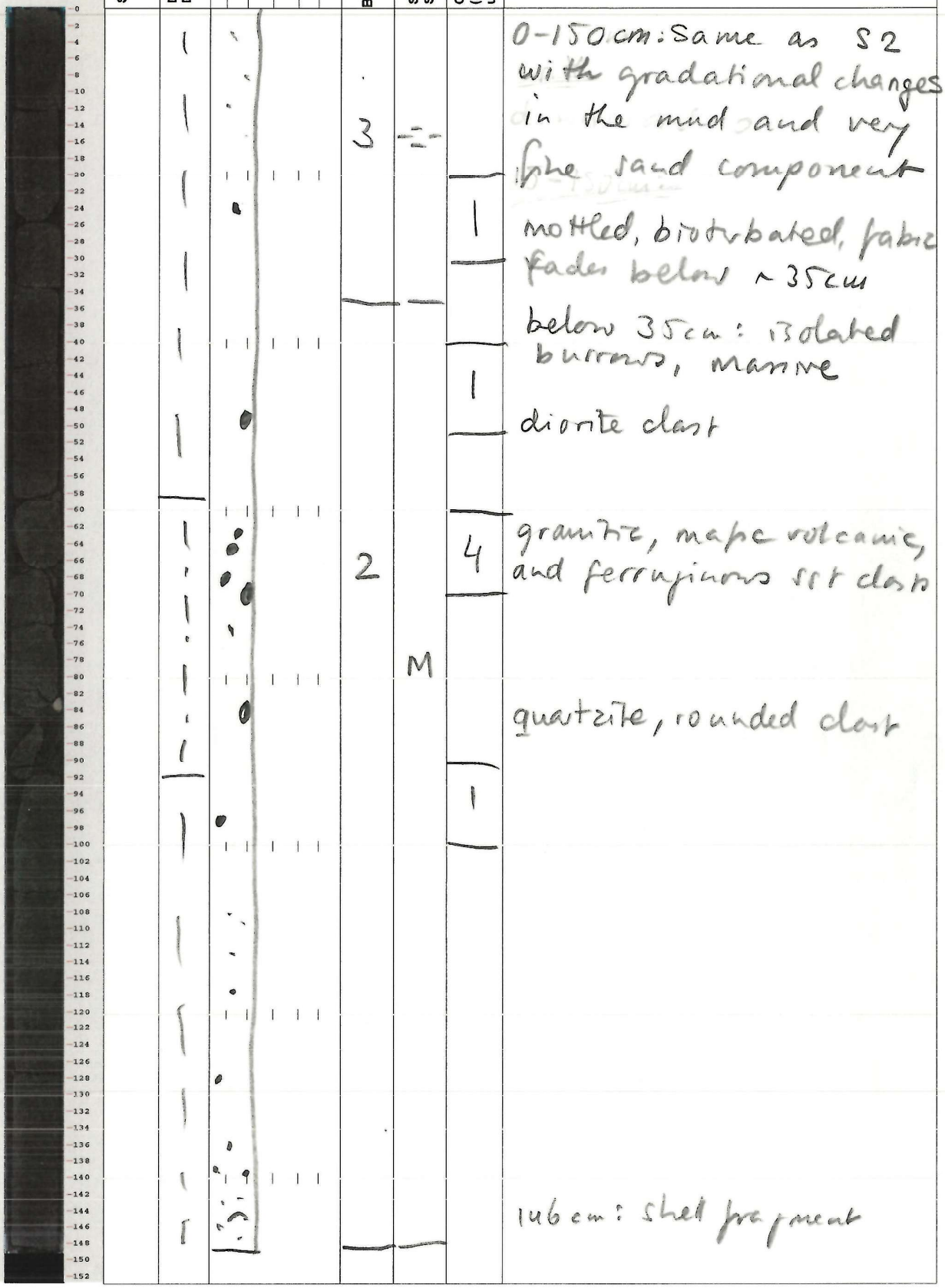
77cm: purple mudstone clast ~ 4mm

53cm: shell fragment

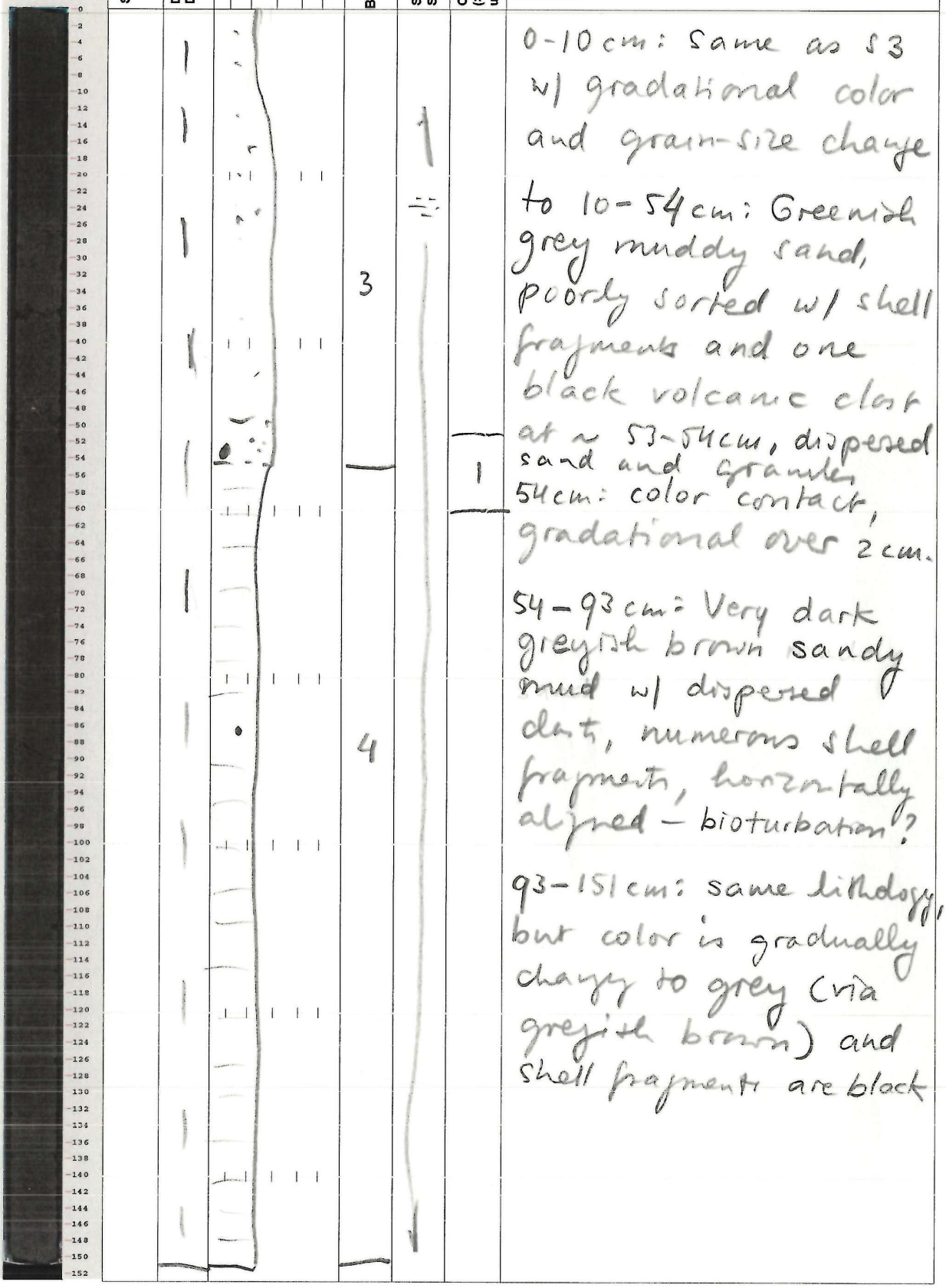
109cm: ~0.5cm gneiss? + K-feldspar granule

Logged By: Sandra

Date: 9/16/2023



Logged By: Sandra | Date: 9/16/2023



Comments

0-10 cm: Same as S3 w/ gradational color and grain-size change

to 10-54 cm: Greenish grey muddy sand, poorly sorted w/ shell fragments and one black volcanic clast at ~ 53-54 cm, dispersed sand and granules

54 cm: color contact, gradational over 2 cm.

54-93 cm: Very dark greyish brown sandy mud w/ dispersed clasts, numerous shell fragments, horizontally aligned - bioturbation?

93-151 cm: same lithology, but color is gradually changing to grey (via greyish brown) and shell fragments are black

400-U1607A-3R-5-A | SHLF12722621

Logged By: Sandra

Date: 9/16/2023



Samples

Drilling Disturbance

Lithology

C S Sd G D

Bioturbation

4

Sedimentary Structures

Clast Count (>5 mm) up to 10

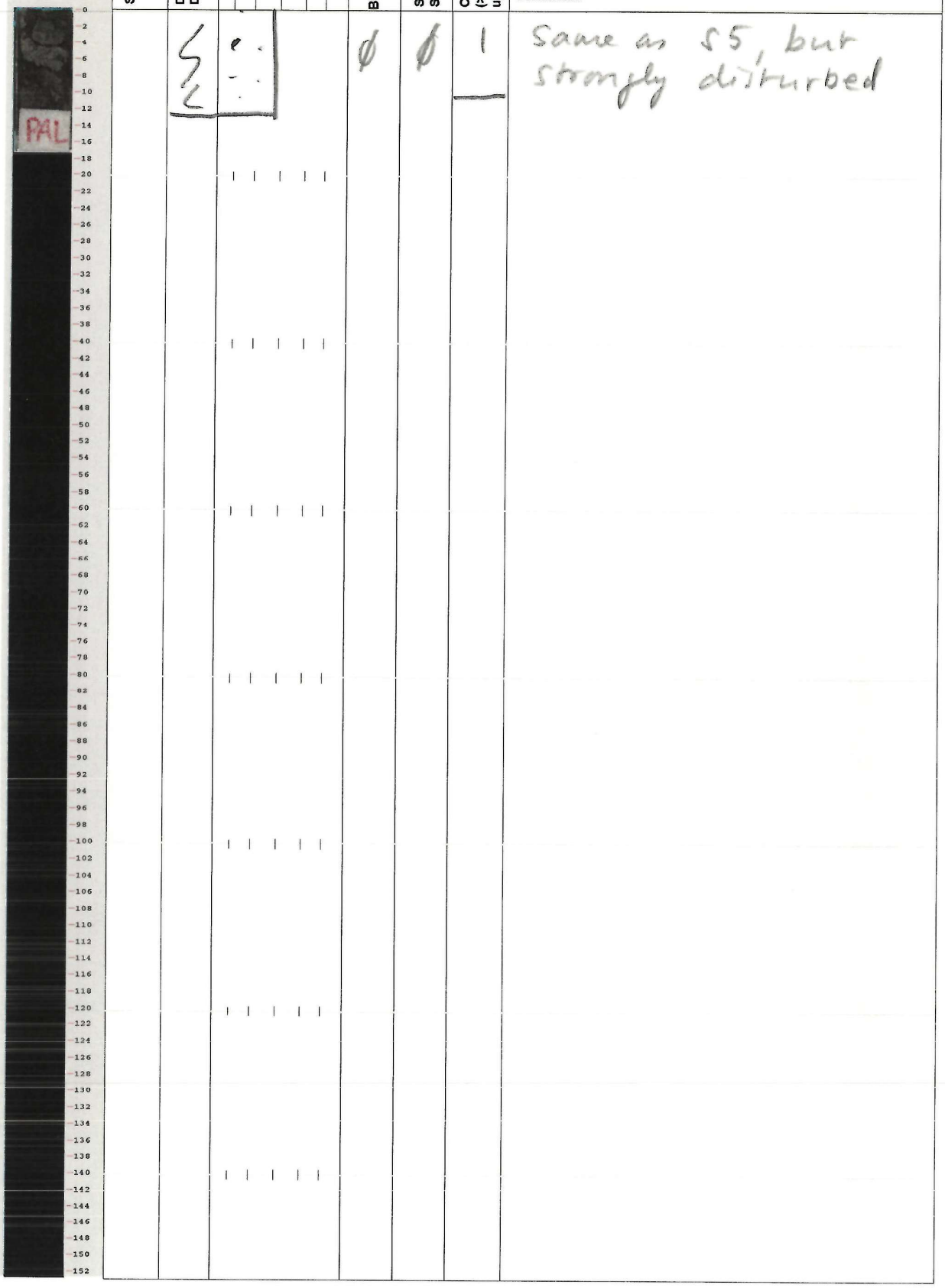
none large enough

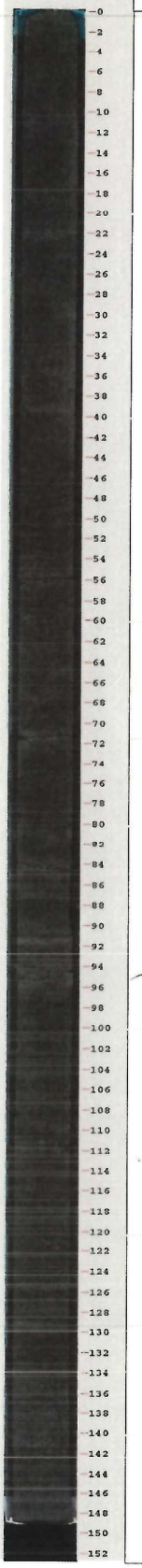
Comments

0-34cm: Grey sandy mud grading down into muddy sand w/ dispersed clasts horizontal fabric, probably due to bioturbation, numerous black shell fragments

34-50cm: muddy sand w/ dispersed clast, cemented w/ calcite, grey & brown or calcareous mud?

50-78cm: muddy sand, like 0-34cm.


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Sandra
Date:
9/16/2023
Comments
PAL
Same as 5S, but strongly disturbed



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152				(3)			

Logged By: | Date:

Drilling Disturbance: slight; fra

dark grey mud.
{ laminat° 5mm
white grey calcareous.
highly bioturbat°
burrows
"ghost" shells.
s-d pockets

shells { black color

burrows (worm).

surrounded by a thin layer of white sed.

smelly

1cm

+ dispersed clasts (grains of s-d red/white/black.)

bioturbat° mostly horizontal
some vertical burrows

Logged By:

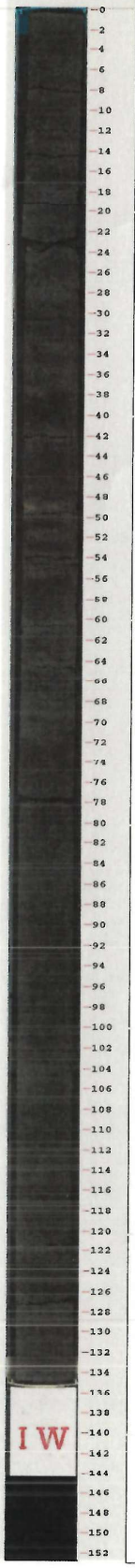
Date:



CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–76							dark grey mud. highly bioturb. laminated with light grey laminae <1cm >0,3
16–20		mud ist		3			
20–60							- shells - burrows (similar of 4R-1) with disp. clasts
60–76						1	
76–82	77						
78–82	SS 82			2			white calcareous fine / ~~mud ooze~~? ~~waiting for SS~~ terrigeneous carb, no F
82–130				3			idem. with dispersed clasts
130–140						1	

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
	Slight					dark grey mud
	Fra		(3)			with withe grey laminae calcareous
						burrows
						shells same as sect. sect. 1 (1)
					1	concret.
						with disp clasts
						same type of bioturbat. than ~~sect.~~ (1)

CM Scale



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



no dist

(3)

dark grey mud with calc white laminat? <1cm >0,3 mm

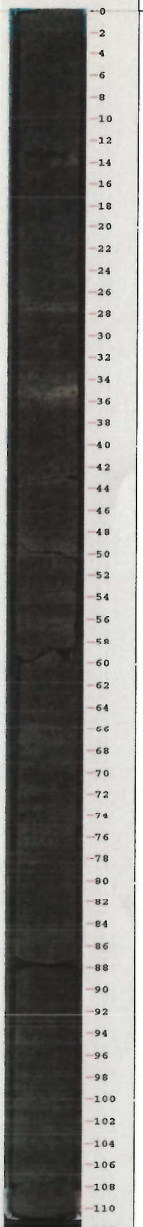
lot of biotur some kind



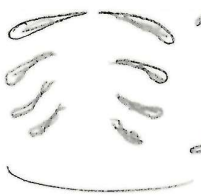
1cm

with disp clasts /

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

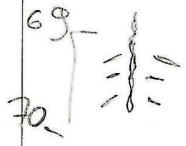


ide.
dark gray mud
with light gray/white
calc. laminae
lot of bioturbat?



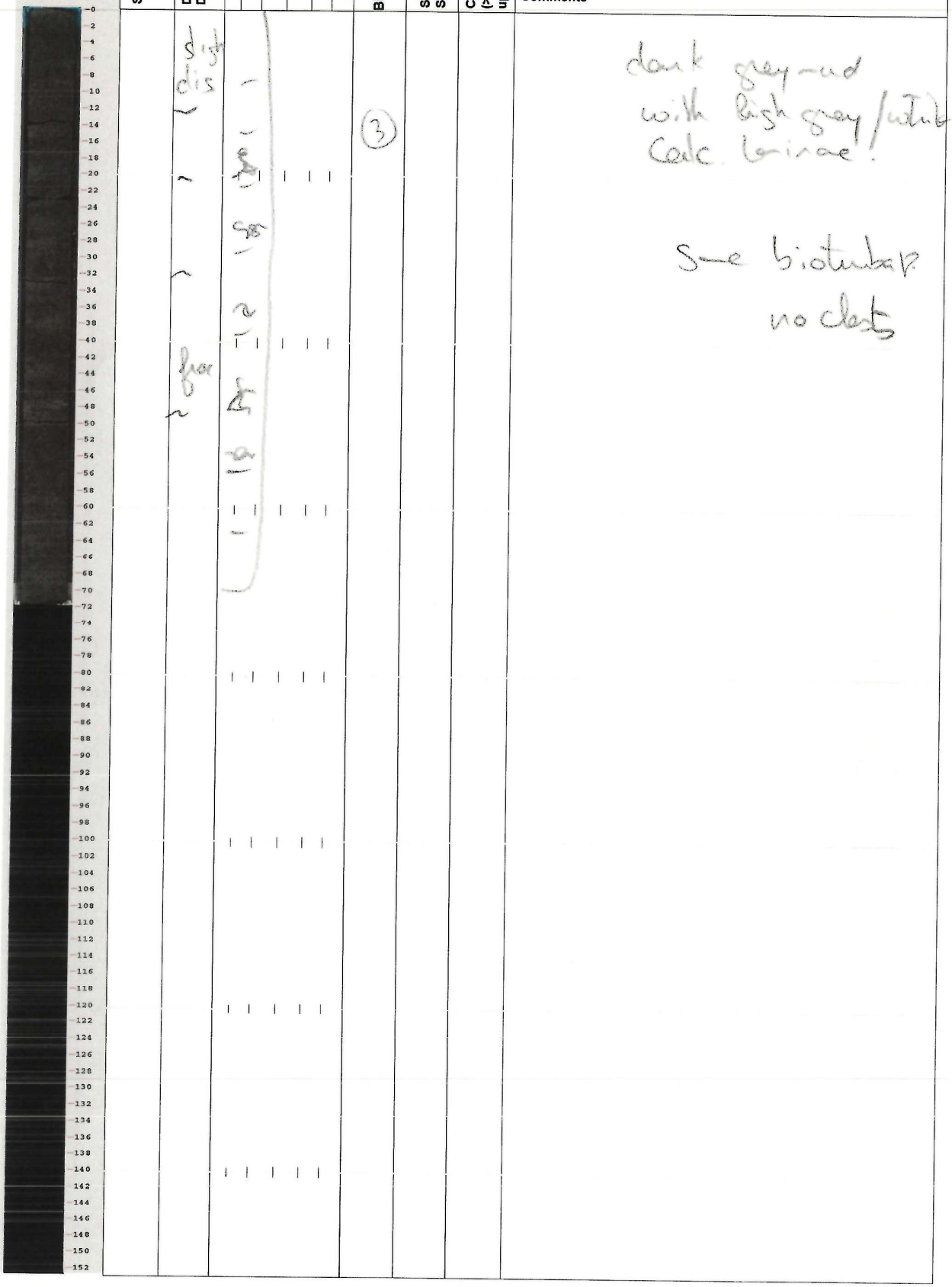
↳ ide 44.47 cm

no clasts



400-U1607A-4R-6-A | SHLF12723021

Logged By:	Date:
Comments	



Logged By: TF Date: 9/17/23

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152		0		4			0-base: dark grey bioturbated mud - Faint stratification - tan cm-scale laminae ($CaCO_3$-rich) affected by bioturb. - traces - low diversity, small - chondrites - phycosiphon - helminthopsis - mm-scale, black larger traces visible bec. of color contrast * WITH time, color changed to med grey

400-U1607A-5R-2-A | SHLF12723641

Logged By: TF

Date: 9/17/23

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152		0		4			0-4: VOID 4-20: Dark grey bioturb mud ↳ gr 19-23: lt brown bioturb mud ($CaCO_3$) 23-29: as 4-20 ↳ sharp 29-35: as 20-24 ↳ gr 35- base: as section 1
74						0	
108							thin-shelled bivalve at 109 cm
120–122						1	128- granite granule
140						0	

400-U1607A-5R-3-A | SHLF12723671

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

0 - base: dark grey mud

- more chondrites than in prev. sections

- only one faint $CaCO_3$ lam at 9 cm

- scattered fossil debris below 50 cm.

400-U1607A-5R-4-A | SHLF12723701

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
0–152						

Logged By:

Date:

Comments

0–100: dk grey bioturb mud

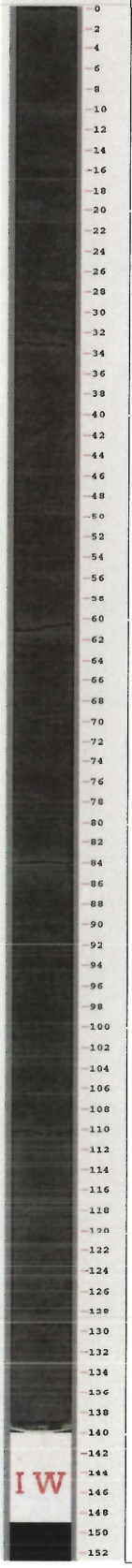
scattered shell debris

faint strat.

color gradation

100-bas: med grey bioturb mud

chondrites more prevalent



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

0-60: dark grey bioturb mud

color chng

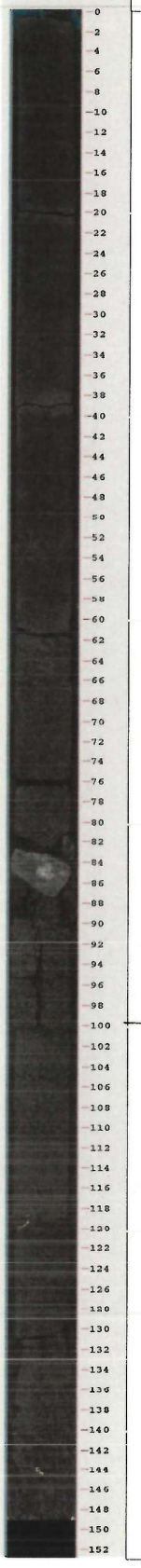
60-base: med grey bioturb mud

- chondrites increasy in prevalence
- mixing in of $CaCO_3$?

Pyritized shell @ 131

400-U1607A-5R-6-A | SHLF12723761

Logged By: | Date:



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
	0		4			0-17: med grey mud bioturb, scattered fossil debris - L> gradational
			3		0	17-39: dark grey mud - small bioturb traces not evident, looks more uniform - scattered fossils
					1	39-62: fossiliferous dk grey mud - thin bivalves ~2-3cm intact + other small ovoid fossils (ostracods?) L> gradational
		granule	0		0	62-88: sandy mud dk grey brown scattered m-c sand (gtz) - angular
	3 frac	gneiss clast (5cm)			1	
					0	88- base: dk grey brown muddy sand (fine) - scattered shells up to 1cm size - poorly sorted, w/ sand grains ranging to coarse/v. coarse
					1	
	4 frac				0	

Logged By:	Date:



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0		4					
2							
4		>		0		0	0– 44: muddy sand brecciated by drilling w/ coarse sand, poorly sorted
6							
8							
10		>					
12							
14							
16							
18		>					
20							
22							
24		>					
26							
28							
30							
32							
34		>					
36							
38							
40		>					
42							44-base: fine gr. dk grey sandy mud thick lam
44							
46							
48							
50							
52							
54						2	
56							. a few granules (granit
58							
60							
62							
64							
66							
68							
70							
72							
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82							
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148							
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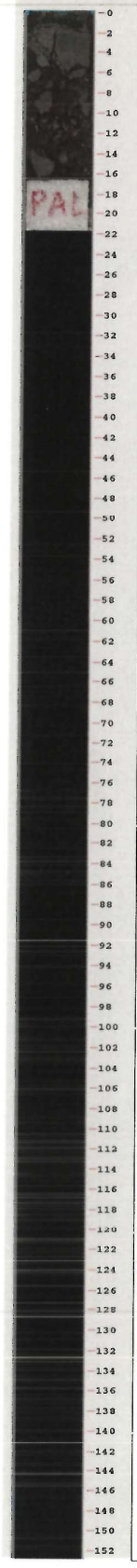
152							

400-U1607A-5R-CC-A | SHLF12723821



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
			0		1

Logged By:

Date:

Comments

0-base: dark grey mud
massive

400-U1607A-6R-1-A | SHLF12724061

Logged By:	Date:
GG	17 Sep

Comments



Sandy mud w dispersed clasts.
light greyish green
weakly stratified
fine scale bioturbation?
n<5mm shell fragments throughout
+ more significant frags of bivalves
clasts are fine gravel n3-5mm

weakly stratified
Articulate bivalves / sand dollars.

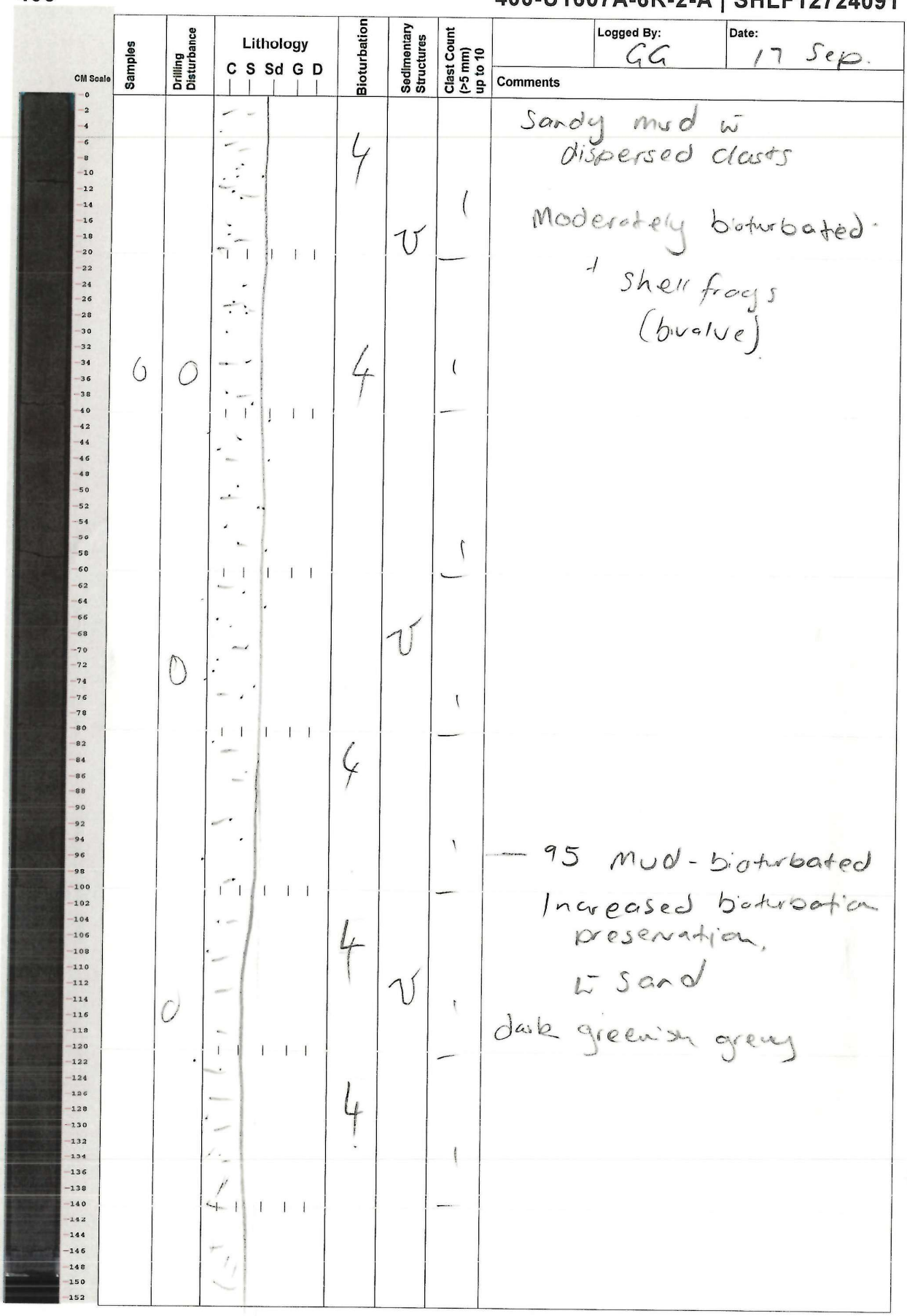
Fining down core somewhat

+ concretions

increased bioturbation ↓

400-U1607A-6R-2-A | SHLF12724091

Logged By:	Date:
GG	17 Sep.



400-U1607A-6R-3-A | SHLF12724121

Logged By:	Date:
GG	17 Sep

CM Scale

Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
	6		4	~	1	Bioturbated mud
						w dispersed clasts ~5mm
						+ shell frags
					1	
					—	
	0				—	
					1	
					—	
					1	
					—	
					1	
					—	
					1	
					—	
					1	
					—	
					1	
					—	



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152							

Logged By: GG

Date: 17 Sep

Bioturbated Mud w/ dispersed clasts + shellfrags <5mm

Logged By: GG

Date: 17 Sep

Comments: Bioturbated mud w/ dispersed clasts

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
0–152		6		4	V	1

IW

Logged By: GG

Date: 17 Sep.

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152				4 ↓	5 ↓		Bioturbated Mud w dispersed clasts & shell frags.
					4		darkening dwn core to darker brown
					4		color gradation over 1m lc. grad ~ 2cm
					3		122 - base v. dark brown grey yellow muddy sand

400-U1607A-6R-7-A | SHLF12724241

Logged By:	Date:
GG	17 Sep

Comments

Muddy Sand
Soil like texture
W dispersed clasts <1cm

Bioturbation
Absent

CM Scale

Samples | Drilling Disturbance | Lithology (C S Sd G D) | Bioturbation | Sedimentary Structures | Clast Count (>5 mm) up to 10

400-U1607A-7R-1-A | SHLF12724661

Logged By: TF

Date:

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152	-> SS			∅ / 2 / 1			0-61: muddy fine sand - scattered coarse clasts - stratified - coarse sand scattered ↳ sharp contact dk-grey, brown 61-72: dark grey mud (silty) ↳ sharp 72 - base dark grn-grey mud w/ sand faint laminations + bioturb (v. small, low diversity) - scattered coarse sand clasts

Logged By:

Date:

CM Scale

Samples

Drilling Disturbance

Lithology C S Sd G D

Bioturbation

Sedimentary Structures

Clast Count (>5 mm) up to 10

Comments

TS

SS

Bioturbation: 7, 1, 2, 3, 2

Clast Count: 0, 1, 0, 1, 0

0-7: dark grey mud w/ sand, as in S1

7-39: dark grey mud
- small pyritized fossils

↳ gradual

39-49: calcareous mud; light brown; ↳ w/ sand

49-base: dark grey (1 green) mud

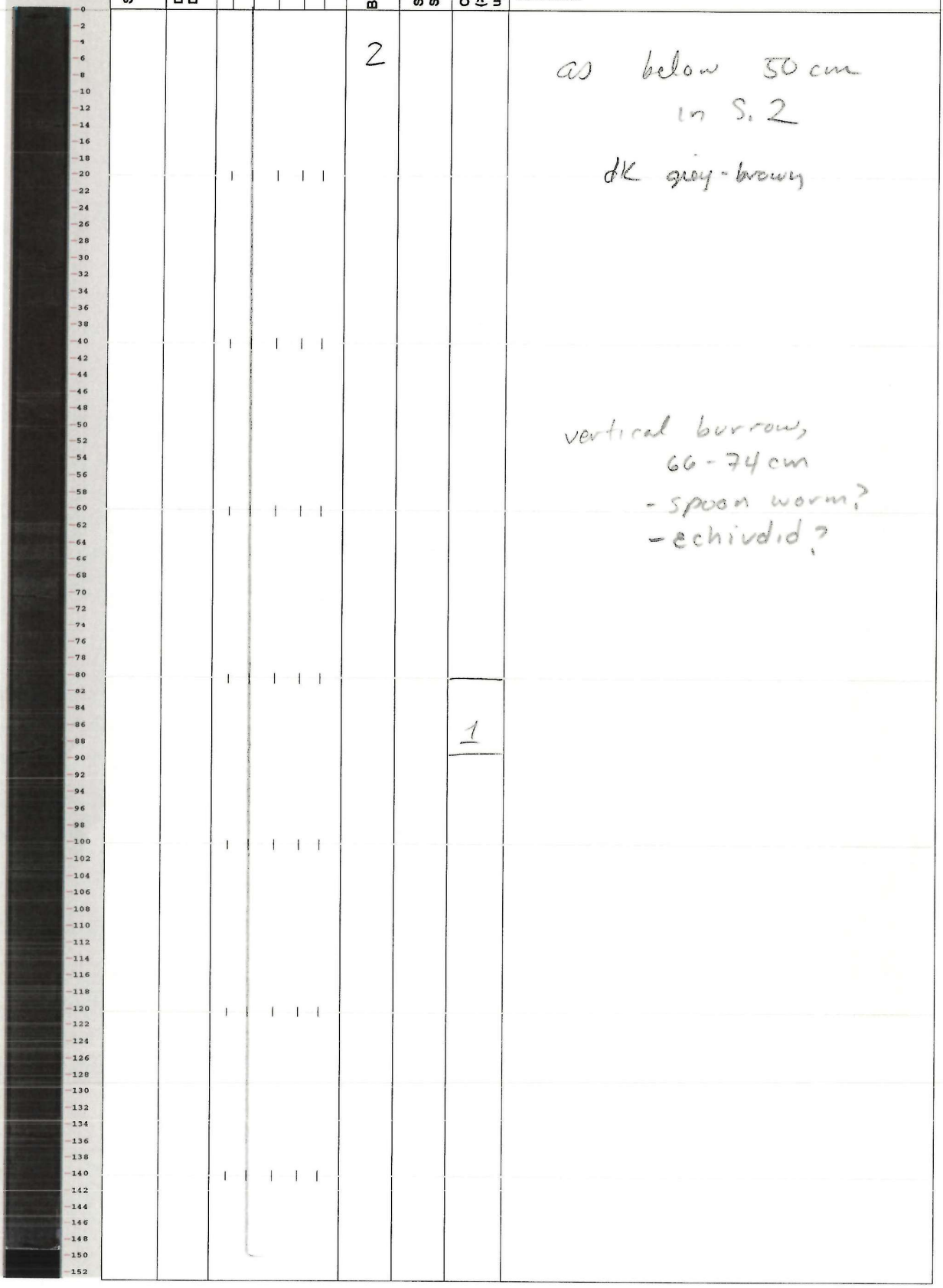
63-65 - cm-scale burrows filled w/ calc. mud,

- tiny pyritized fossils (or burrows?)

- very scattered sand (<1%)

- v. small burrows

- stratified


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Date:
Comments
2
as below 50 cm in S. 2
dk grey-brown
vertical burrow, 66-74 cm
- spoon worm?
- echivdid?
1

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
							Comments	
0–152				2			- as S. 3 dk. grey-brown → bivalve @ ~80cm. Some small fossil debris not pyritized	

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	

CM Scale



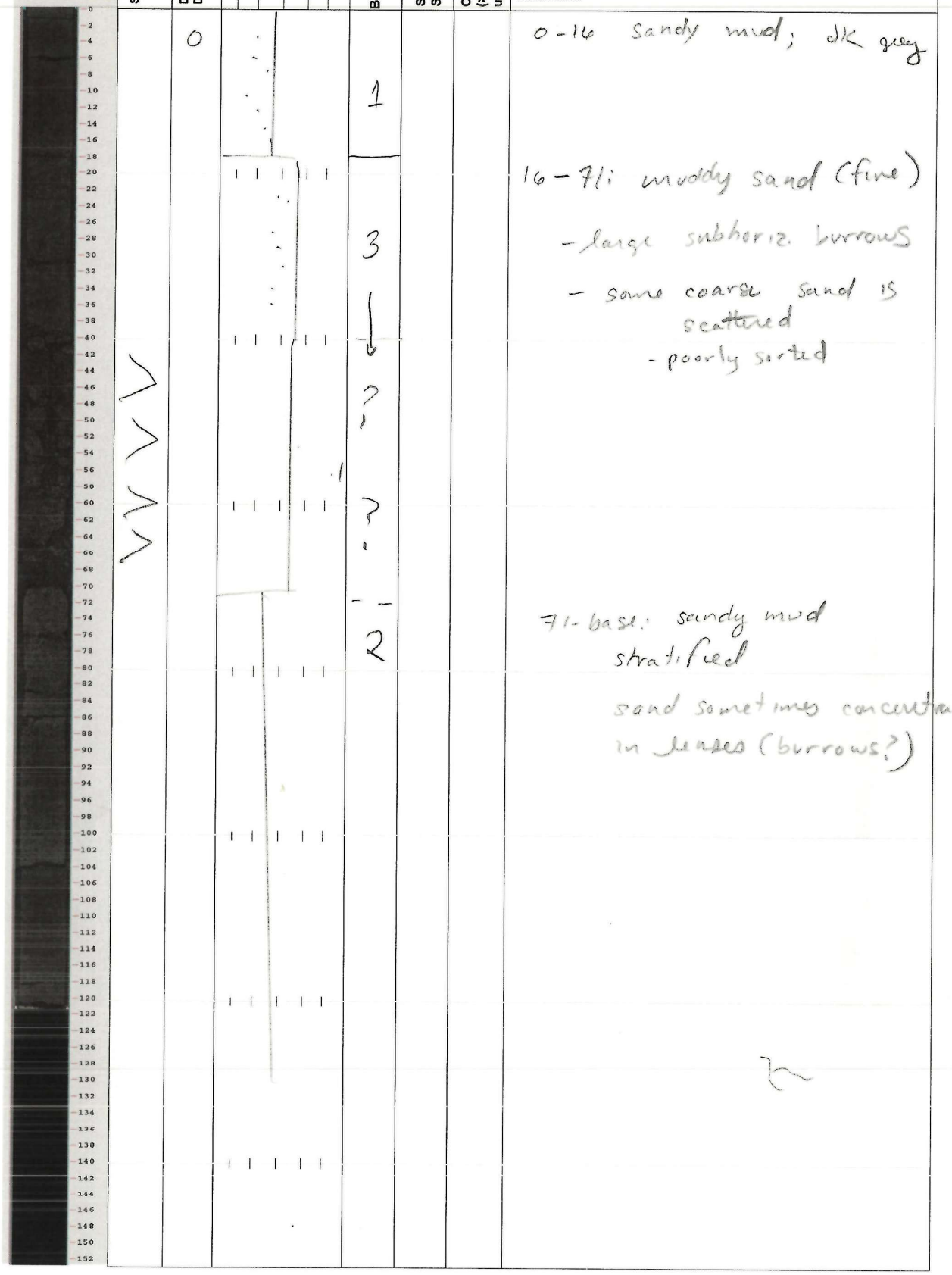
Bioturbation	Comments
2	As S. 4 sml scat. fossil debris tiny burrows (branching)

400-U1607A-7R-6-A | SHLF12724811

Logged By:

Date:

Comments



0-16 Sandy mud; dk gray

16-71: muddy sand (fine)

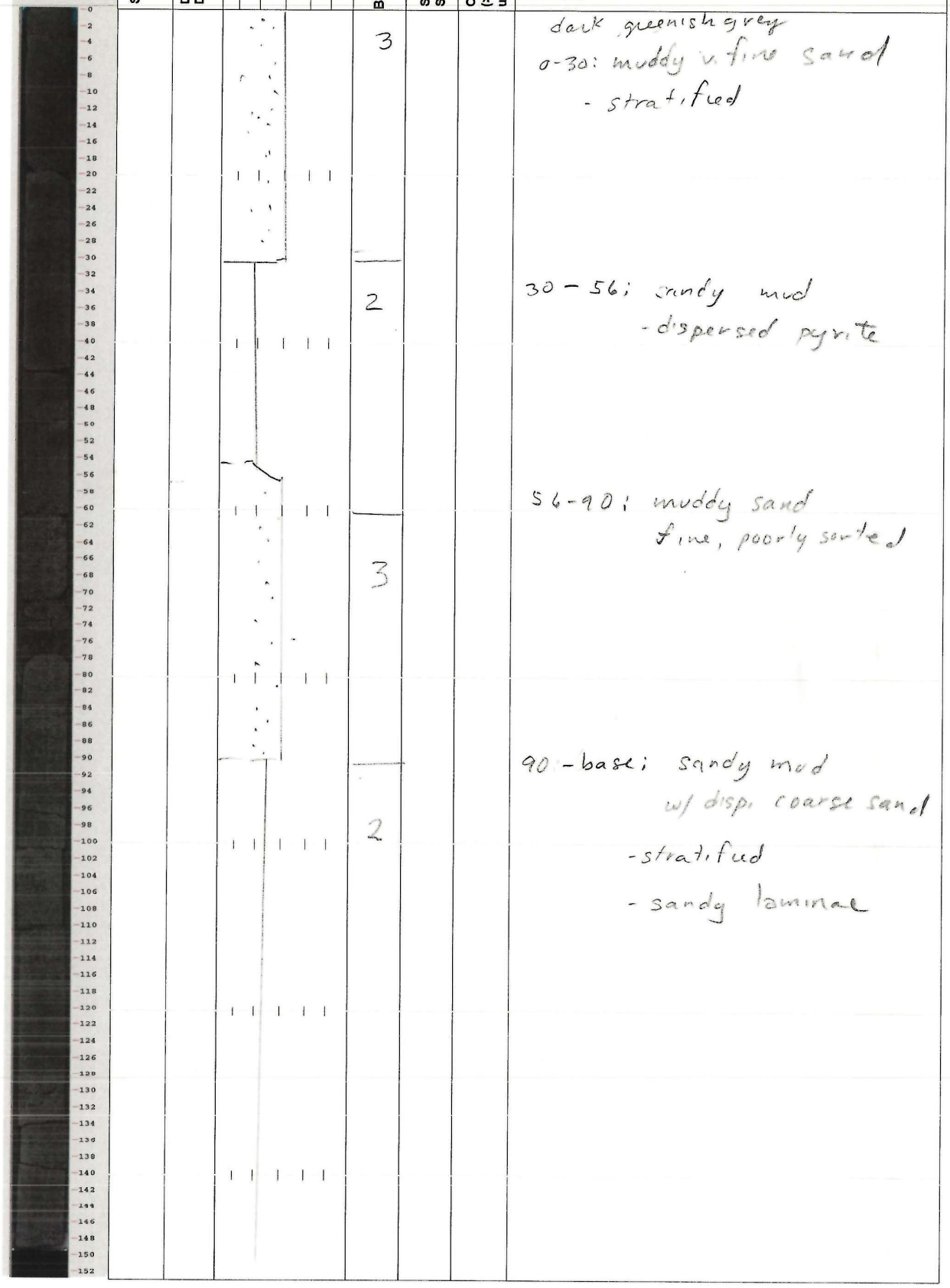
- large subhoriz. burrows
- some coarse sand is scattered
- poorly sorted

71-base: sandy mud stratified

sand sometimes concentrated in lenses (burrows?)

400-U1607A-8R-1-A | SHLF12725161

Logged By:	Date:
TR	9/17/23



Comments

dark greenish grey

0-30: muddy v. fine sand
- stratified

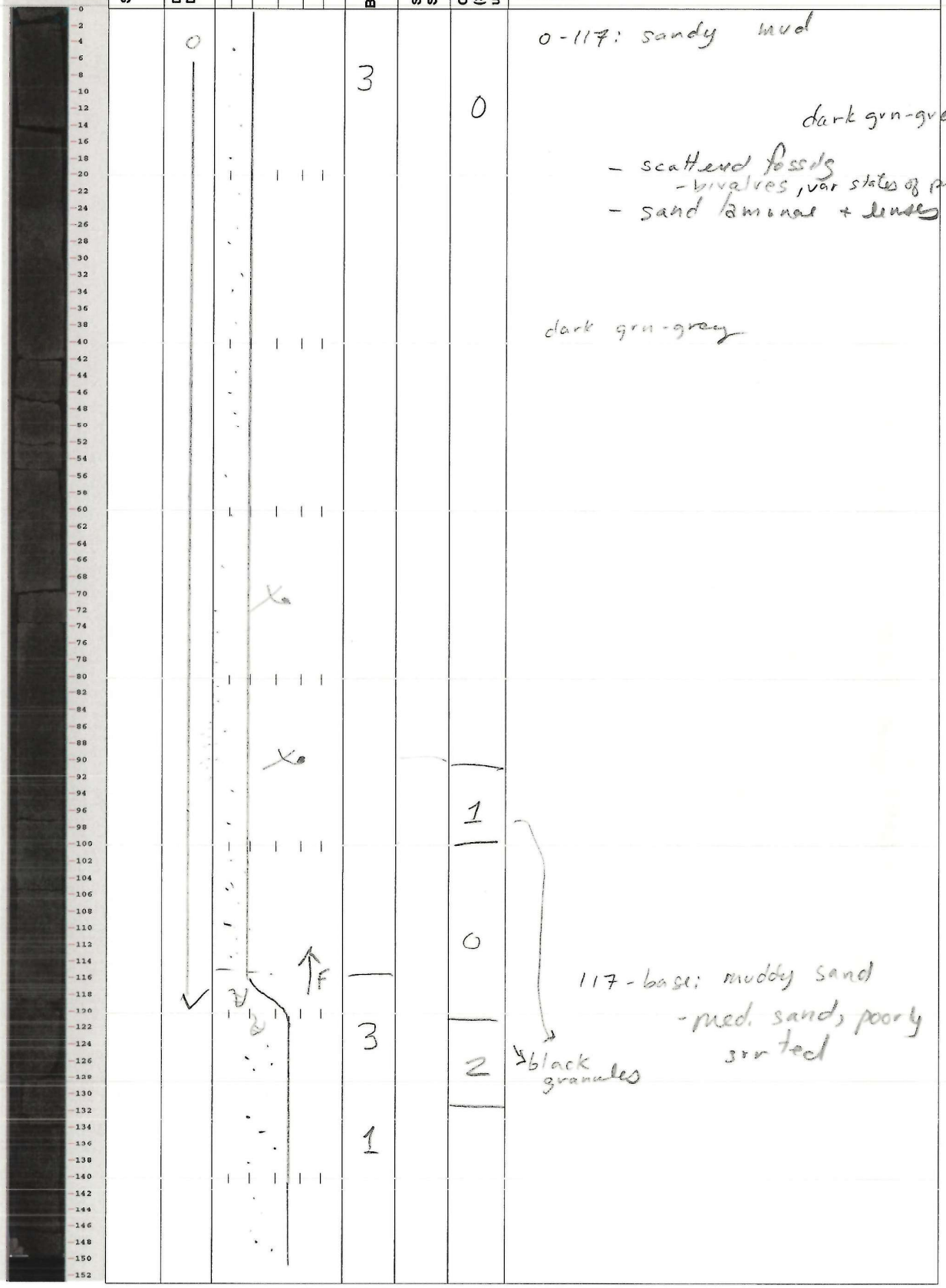
30 – 56: sandy mud
- dispersed pyrite

56-90: muddy sand
fine, poorly sorted

90 - base: sandy mud
w/ disp. coarse sand
- stratified
- sandy laminae

Logged By:

Date:



Logged By:	Date:



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20				0		0	Dark grn grey 0-34: muddy sand - fine med. - stratified
20–34						5	
34–40				3		0	34 - base muddier sand, fine w/ disp clasts - more segregation of fines in patches due to bioturbation - coherent laminae here & there
40–50						1	
50–60						0	
60–70						2	
70–100						0	
100–110						2	
110–120						2	
120–130						1	
130–152						0	

IW

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

dark grey!

0 – 30: mud w/ sand
- disp fossils

30 – 43: totally messed up by drilling
muddy sand?

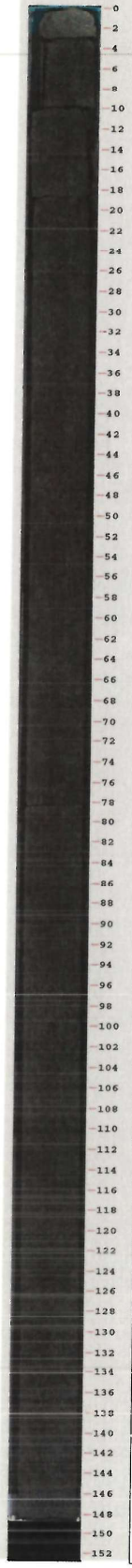
43 – base: dk grey mud w/ sand.
no fossils
more clay

400-U1607A-8R-CC-A | SHLF12725281

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
0–152		↓					Comments: Same as bottom of prev core	

PAL

400-U1607A-9R-1-A | SHLF12725621



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
	fall-in 0		4	subtle strat.	

Logged By: L. Ives

Date: 17 Sep 2023

Comments

0-2cm: carbonate-cemented fall-in (concretion) of stinky sandy mud

2cm-end:

dk grey sandy mud

↳ low density of burrows visible, but stratification is hardly discernable

↳ where sand is visible it seems moderately sorted between upper fine sand and coarse sand and mostly quartz

↳ small (mm), rare pyrite blobs present throughout

All horizontal

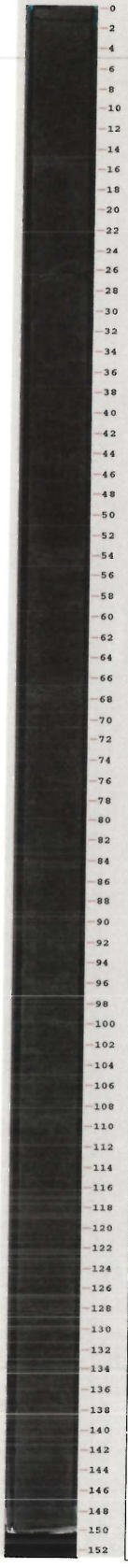
Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: L. Ives	Date: 17 Sep 23



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20		0		4 ↓	subtle disturbed lamination		DK gry sandy mud ↳ heavily bioturbted ↳ burrows relatively rare, + low diversity ↳ more sand filled burrow than 1A ↳ coarse sand + granules more common than 1A
20–40							
40–60							Shell fragments at: ~53 cm
60–80							
80–100							
100–120							
120–140							
140–152							

Logged By: L. Ives

Date: 17 Sep 23



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152		6		4	subtle disturbations		DK gry sand mud ↳ very few granules ↳ very rare coarse sand, sand component is better sorted + more rare ↳ burrows relatively more common + larger than 2A more sand-filled burrows all horizontal
120–122							Shell frag: @ 73 cm @ 22 cm

400-U1607A-9R-4-A | SHLF12725711

Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: L Ives	Date: Sep 17 23
	0		5	0	0	Comments	

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

dk grg, sandy mud
↳ f-m sand dispersed
↳ bioturbated as previous, but w/ more common burrows

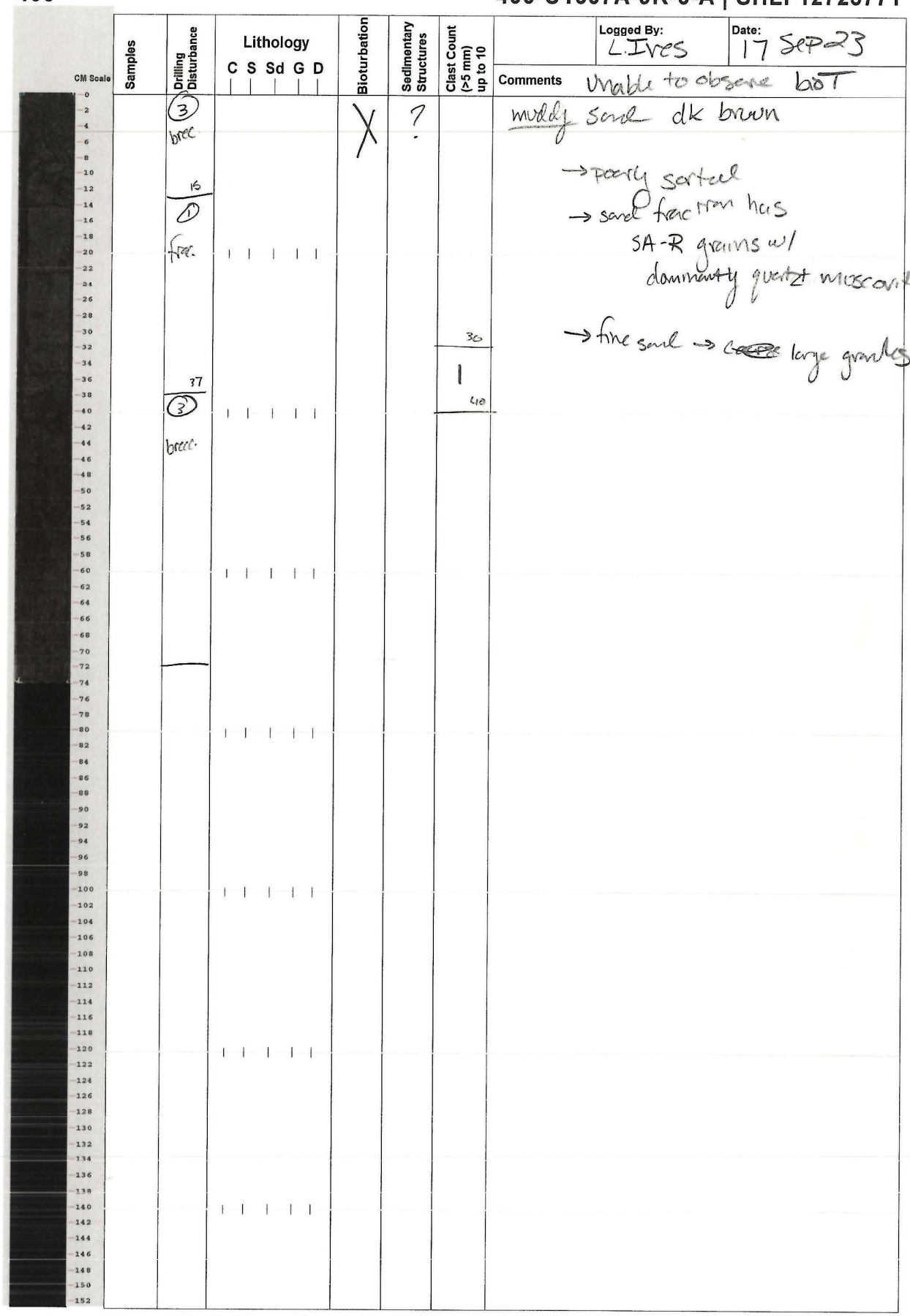
vertical burrows between ~65-90cm
↳ 63, 71, 87 cm have good examples

Shell fragments:
- 100 cm
- 111 cm

Logged By: L. Ives

Date: 17 Sep 2023

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–4		6		5			dk gry bioturbated mud, as above.
20							verticle burrows @ 24 cm
30				31cm / 3			
40							lt gry → sandy mud fewer burrows. less bioturbation. Sandy lams better preserved
50							sand lams or quartz and f-m grained
58							dk brown sandy mud sharp; 1m pyrite blebs present
66		66 / ② brecciated		?	→ unable to observe, massive		63 – end: muddy sand (mostly silt)
70							→ poorly sorted silt to ~~fine~~ small pebble
80						80	→ structureless – mixed?
86						1 / 90	↳ rare hints of subtle/weak/disturbed stratification
100							
120							
130						130	shell bits @ 49cm
136						1 / 140	
140						1	
150						150	



Logged By: L. Ives
Date: 17 Sep 23

Comments: Unable to observe bioT

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–12		3 brec		X	?		muddy sand dk brown
12–14		15					→ poorly sorted
14–20		1 frac.					→ sand fraction has SA-R grains w/ dominantly quartz muscovite
20–32						30	→ fine sand → ~~coarse~~ large granules
32–40		37 3 brecc.				1 40	

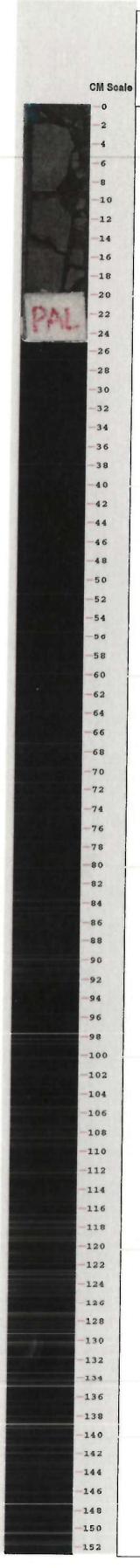
400-U1607A-9R-7-A | SHLF12725801

Logged By: L. Ives

Date: 17 Sep 23

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152		(4) brecciated; 24; 35; (4) brec. 44				1	muddy sand dk brown FUBAR loosely interlaminated sand + muddy sand dk brown. shell @ 27 cm as 0 – 25 cm. 44–end cm dk brown, bioturbated? subtly laminated mud w/ rare sand lamin Sand component is poorly sorted. from fine sand to rare granule.

400-U1607A-9R-CC-A | SHLF12725831

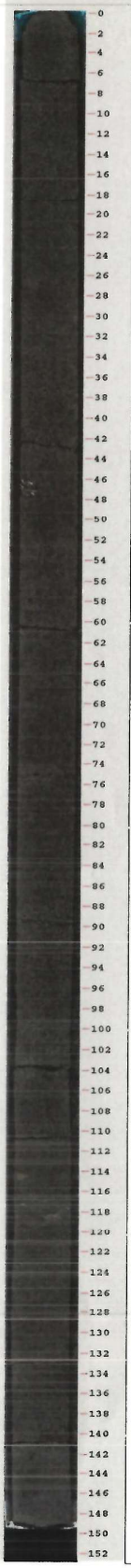


Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	

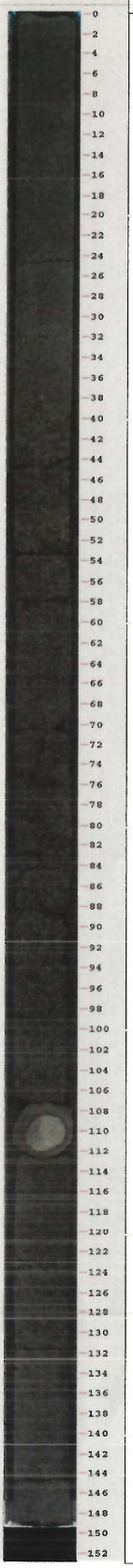
AS 7A

Logged By: BR

Date: 9/17/23



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
	~		4			slightly (fractured) disturbance throughout
	~					0–115: grey-brown-dark mud w/ dispersed sand grains (only one clast), which is weakly/diffusely stratified
	~				1	
	~					47: beautiful 15cm long clast (gneiss or granite)
	~					patches of fine to medium sand in clusters here and there (disrupted laminae/beds?)
	~					(thoroughly bioturbated throughout!!) see x-ray
	~					115–123: calcareous-bearing mud (w/ distinct burrows)
	~					123–end: same as 0–115
	~					
	~					



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
SS			3 / 2		1

Logged By: BR

Date: 9/17/23

Comments

Slight (fractured) disturbance throughout

0-35: bioturbated mud w/ dispersed sand, changes gradationally ↓ to..

35-78: muddy sand (w/ upward fining upper part) w/ dispersed clasts (mostly < 5mm)

- no obvious bedding, but 46-53 is slightly lighter in color and w/ cross-cutting sutures (?)

78-108: similar muddy sand as directly overlying, but fewer coarse to granule grains .. looks more massive

108-113: concretion

113-end: sandy mud w/ some pyrite framboids

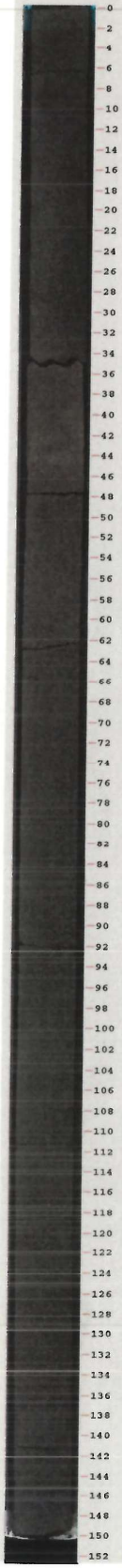
grey-brown-dark

Logged By: BR

Date: 9/17/23

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152				3			Slight (fractured) disturbance throughout 0–25: bioturbated mud w/ sand (dispersed) 25–116: bioturbated mud w/ dispersed sand grains grey-brown-dark 116–end: bioturbated sandy mud w/ weakly stratified 2 less disrupted (but still is) in this lower part

9



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: BR	Date: 9/17/23
						Comments	

Slightly (fractured) distance throughout

0-37: bioturbated grey-brown-dark mud w/ sand

37-45: calcareous-bearing bioturbated mud

45-90: same as 0-37

90-end same as 45-90 but w/ weak stratification

400-U1607A-10R-5-A | SHLF12726331

Logged By: BR

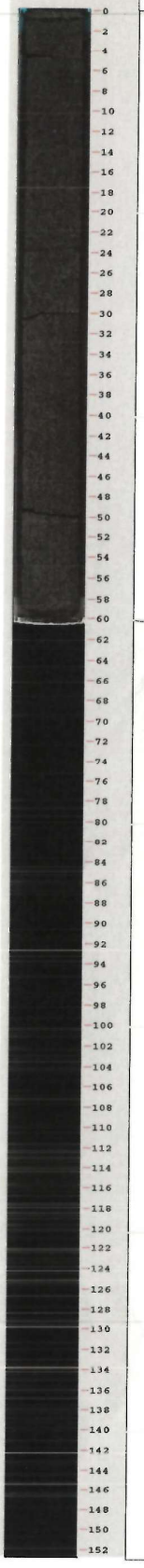
Date: 9/17/23

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152				4		1	slight fracturing throughout 0–8: Sandy mud 8–13: muddy sand w/ weak stratification 13–20: Sandy mud 20–58: muddy sand w/ dispersed clasts 58–end: Sandy mud all of the above is grey-brown-dark and bioturbated base of section

IW

Logged By: BR

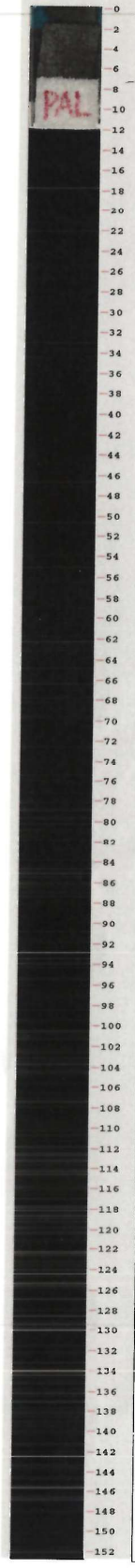
Date: 9/17/23



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
			3			slight fractured disturbance grey-brown- dark sandy mud w/ dispersed clasts
					1	weakly stratified in upper ~20 cm and 53-end
						base of section

400

400-U1607A-10R-CC-A | SHLF12726391



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: BR	Date: 9/17/25
		0	3		1	Comments: Same as basal 6 cm of section 6	



CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–10		① Fra / Slis			—		sandy mud with dis clast thin laminated | dark grey brown
10–16	15	Frac / slis					mud
16–34		Frac / Slis		③	2		calcareous mud mod. bioturbat. + pyrite. 3 | light grey
34–44	35	Fra / Slis		③			mud bioturb / black. + pyrite dark grey
44–56		57		③			calcareous mud. bioturbat. | light grey black + pyrite
56–152				③			dark grey mud thinly lam. lot of bioturbat. worms holes horiz vert. + pyrite. + pocket of sand. SI ~~shell~~

Logged By:

Date:



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0							
2							
4							
6							
8							
10							
12							
14							dark grey mud
16							+ bioturbat. black
18							
20		slight					+ pyrite
22							
24							
26		frac					+ shell fragment (not a lot) small
28							
30							
32							
34							
36							
38							
40				(3)			thinly laminated.
42							
44							
46							
48							
50							
52							
54							
56							
58							
60							
62							
64							
66							
68							
70							
72							
74							
76							
78							
80							
82							
84							
86							86 cm.
88							pocket of calcareous mud
90							
92							
94							
96							
98				(4)			
100							
102							
104							
106							
108							
110							111 cm
112							
114							
116							
118							
120							
122							
124				(3)			
126							
128							
130							
132							ider
134							
136							
138							
140							
142							
144							
146							
148							
150							
152							

Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	

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

Bioturbation: (3)

Drilling Disturbance: slight frac

Comments:
dark gray mud
black bioturbat?
+ pyrite
+ shell fragments (not a lot).
+ pocket of sand
thinly laminated



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0							
2							
4							
6							
8							
10							
12							
14							
16		slish					
18							
20							
22		frac					
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							

Logged By:

Date:

dark grey mud
~~big~~ bioturbated
dark
+ pyrite.
thinly lam.
+ pocket of sand

400-U1607A-11R-5-A | SHLF12726811

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	

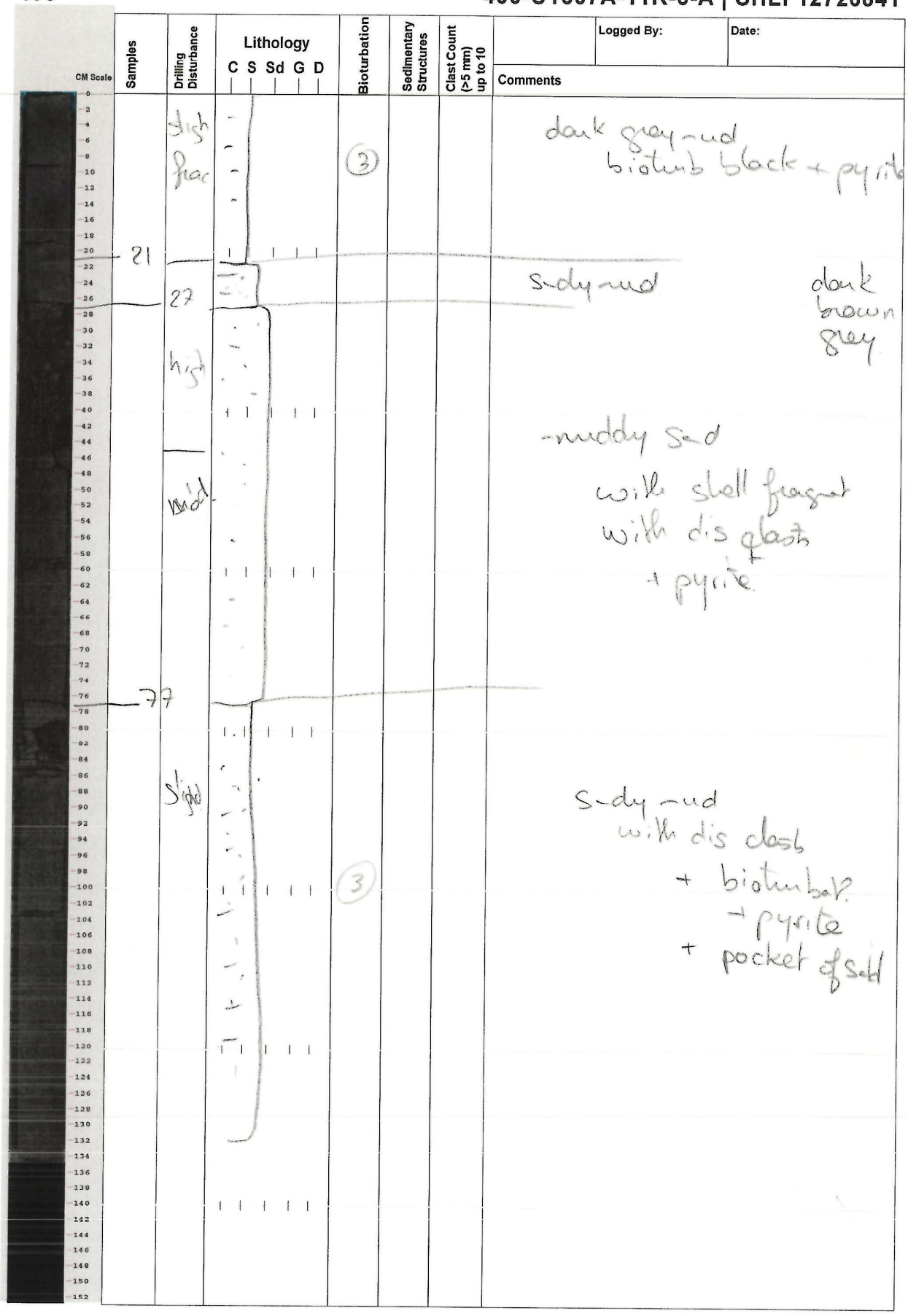


CM Scale

Same as 11R4A
dark grey-red
thinly la
bioturbat?
pyrite
pocket of sed.

Slight
Fro

IW



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
	slight frac		(3)			dark grey-mud biotub black + pyrite
21						
	27					sandy-mud dark brown grey
	high					
	mid					-muddy sand with shell fragment with dis clasts + pyrite
77						
	slight		(3)			sandy-mud with dis clasts + bioturbat. + pyrite + pocket of sand

Logged By:

Date:

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
	0		3			Sandy mud with bioturbat?
	high				1	muddy sand with disp clasts
					2	

Logged By:

Date:

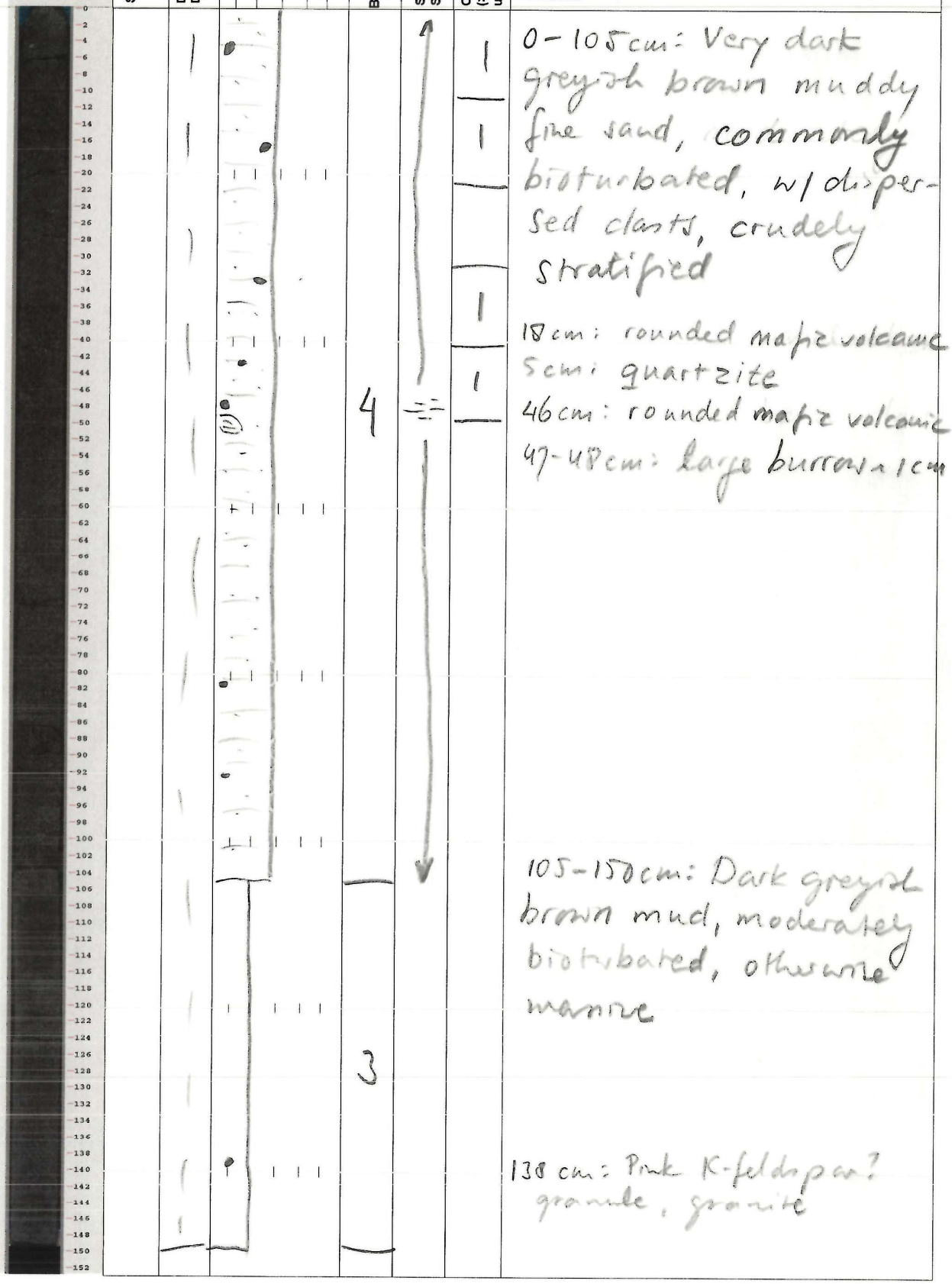
CM Scale



400-U1607A-12R-1-A | SHLF12727161

Logged By: Sandra

Date: 9/17/2023



400-U1607A-12R-2-A | SHLF12727191

Logged By: Sandra

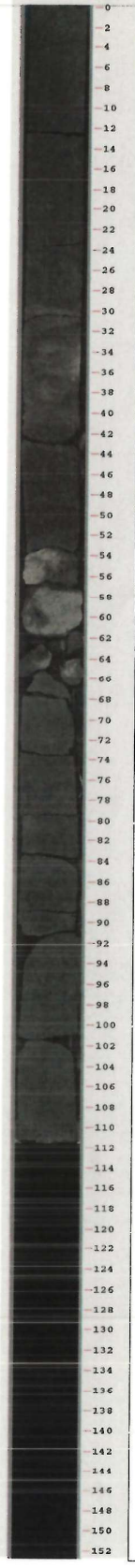
Date: 9/17/2023

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152				3	M	Ø	0–73 cm: Dark greyish brown mud, massive, moderately bioturbated, some distinct burrows, some vertical mm-scale to ~0.5 cm across, rare shell fragments
							73 cm: gradational color contact over ~5 cm
							73–132 cm: Very dark greyish green mud, massive, moderately bioturbated
				3	M		77–80 cm: calcareous mud, yellowish in color
							121–132 cm: Some sand-filled burrows
IW							

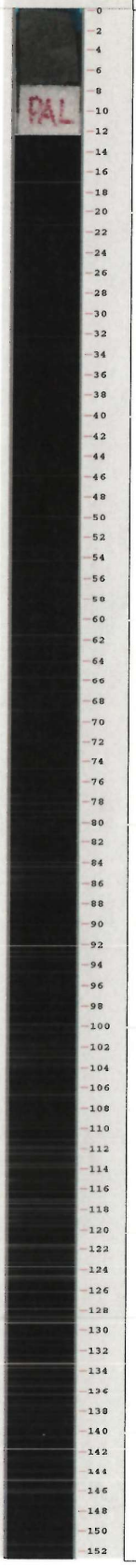
400-U1607A-12R-3-A | SHLF12727221

Logged By: Sandra

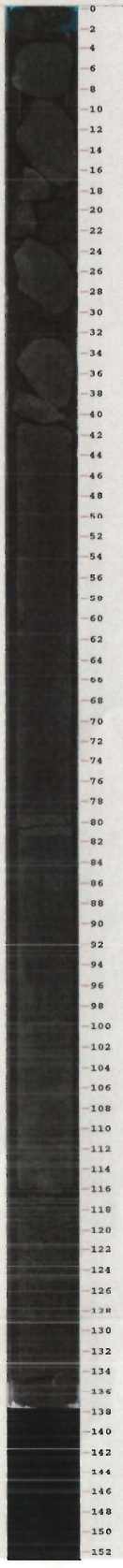
Date: 9/17/2023



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
SS	1				Ø



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: Sandra	Date: 9/17/2023
	1 1		3	N	Ø	Comments: 0-8cm: Dark bluish grey mud, massive	



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10

Logged By: BR

Date: 9/17/23

Comments

0-41: Strongly disturbed/biscuited

41-end: slightly fractured disturbance

0-99: bioturbated dark gray mud (w/ black-fleck burrow fills) (some dispersed sand, but very sparse)

99-115: gray-brown-dark mud w/ sand (slightly less bioturbed

115-end: muddy sand dark-brown

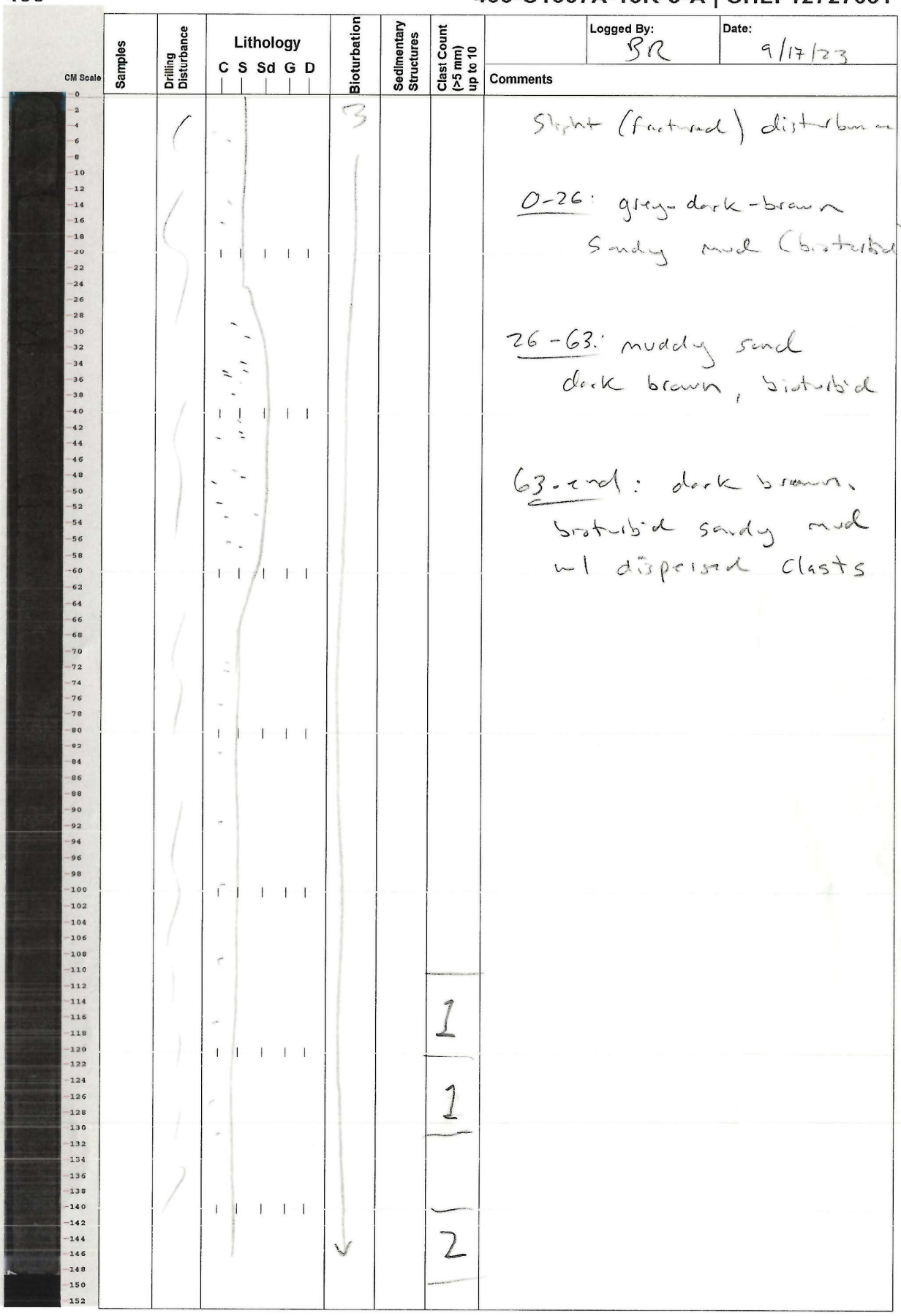
Logged By: BR

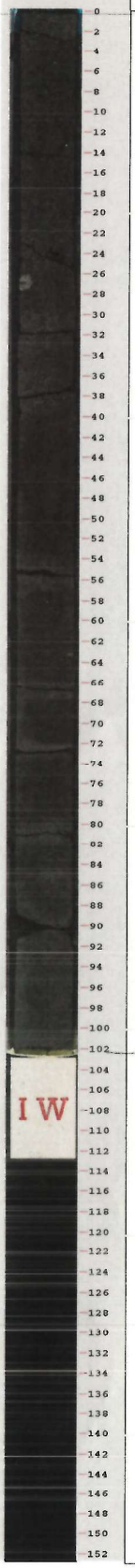
Date: 9/17/23

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152				3	1 / 1		slightly (fractured) disturbance throughout 0–60: dark brown bioturbated muddy sand transitions gradationally down-section to ... (w/ dispersed clasts) 60–80 – grey-dark-brown bioturbated sandy mud gradationally transitions down core to ... 80–135: mud w/ sand grey-dark-brown bioturbated 135–end: sandy mud bioturbated; shell @ base of section

Logged By: BR

Date: 9/17/23





Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
			3		
					1
			4		

Logged By: BR

Date: 9/17/23

Comments

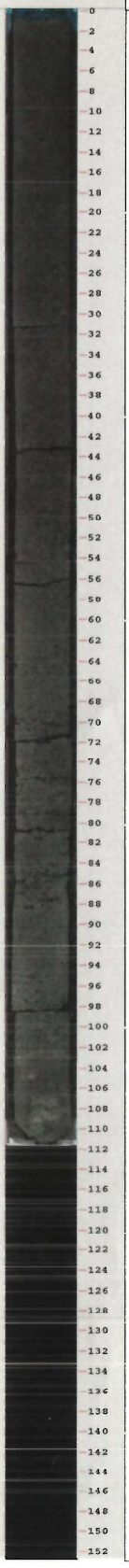
slightly (fractured) disturbed

0–40: grey-brown-dark sandy mud w/ dispersed clasts

40–end: grey-dark-brown bioturbated mud

turns medium grey from 80 cm and ↓

base of section



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: BR	Date: 9/17/23
						Comments	

slightly (fractured) distrib

0-50: greenish-grey-dark brown bioturbated mud weakly stratified

50-103: greenish-grey-medium bioturbated mud w/ discontinuous sand-rich stratification (some 'pods' of sand, but aligned horizontally)

103-end: grey-light Calcareous mud w/ sand (bioturbated)

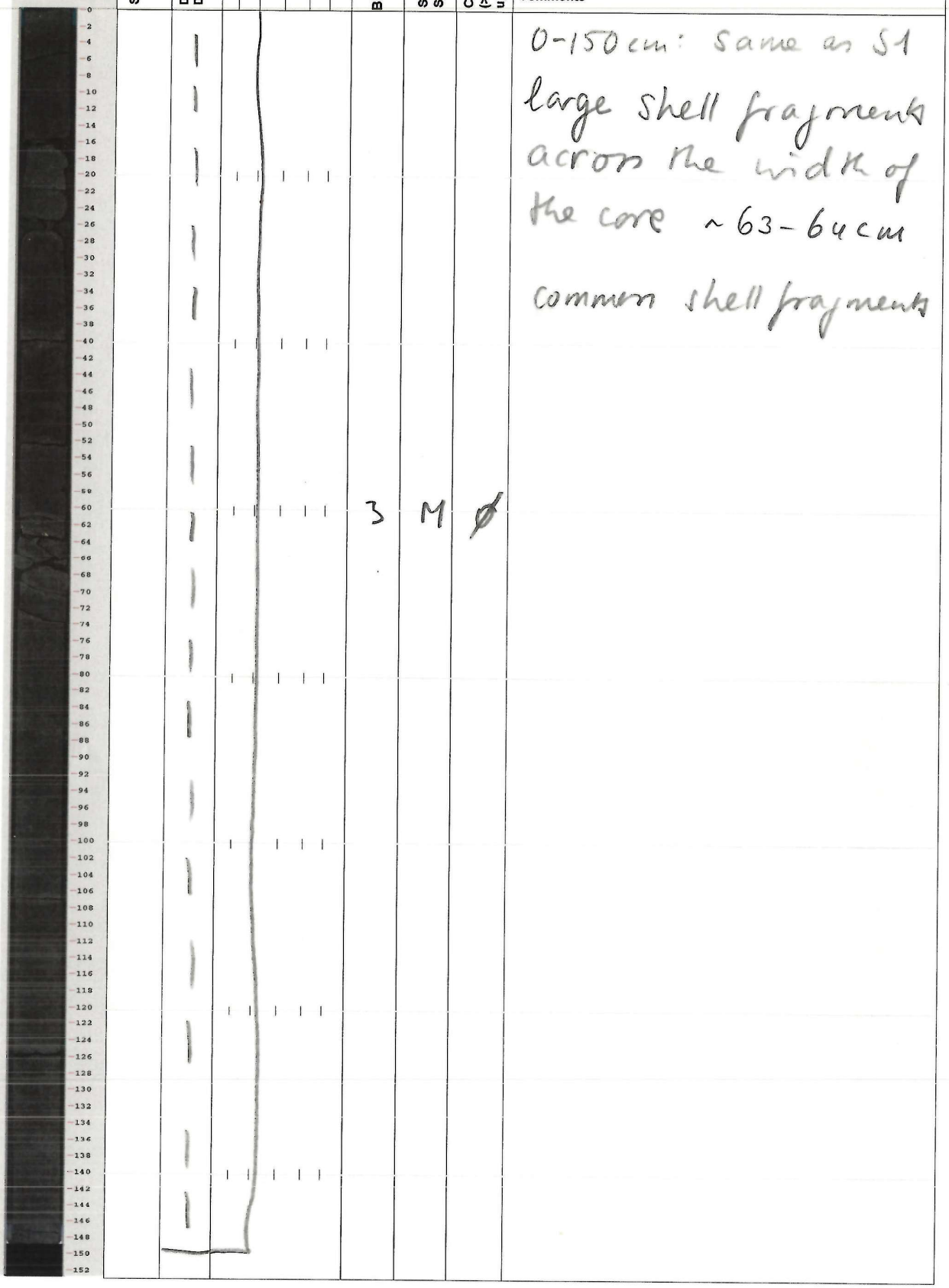
1

Logged By: Sandia

Date: 9/17/2023

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152				3	M	Ø	0–150 cm: Very dark greyish brown massive mud, moderately bioturbated with mm-scale small burrows that are horizontal or oblique orientation and larger horizontal burrows mm-scale pockets of sand, rounded grains e.g. at 33 cm. and sand-filled burrows? common shell fragments

400-U1607A-14R-2-A | SHLF12728131



400-U1607A-14R-3-A | SHLF12728161

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
0–152				3	M	9

Logged By: Sandra

Date: 9/17/2023

Comments

0–150cm: Dark greyish brown mud, massive, moderately bioturbated

large possible escape burrow 40–42cm

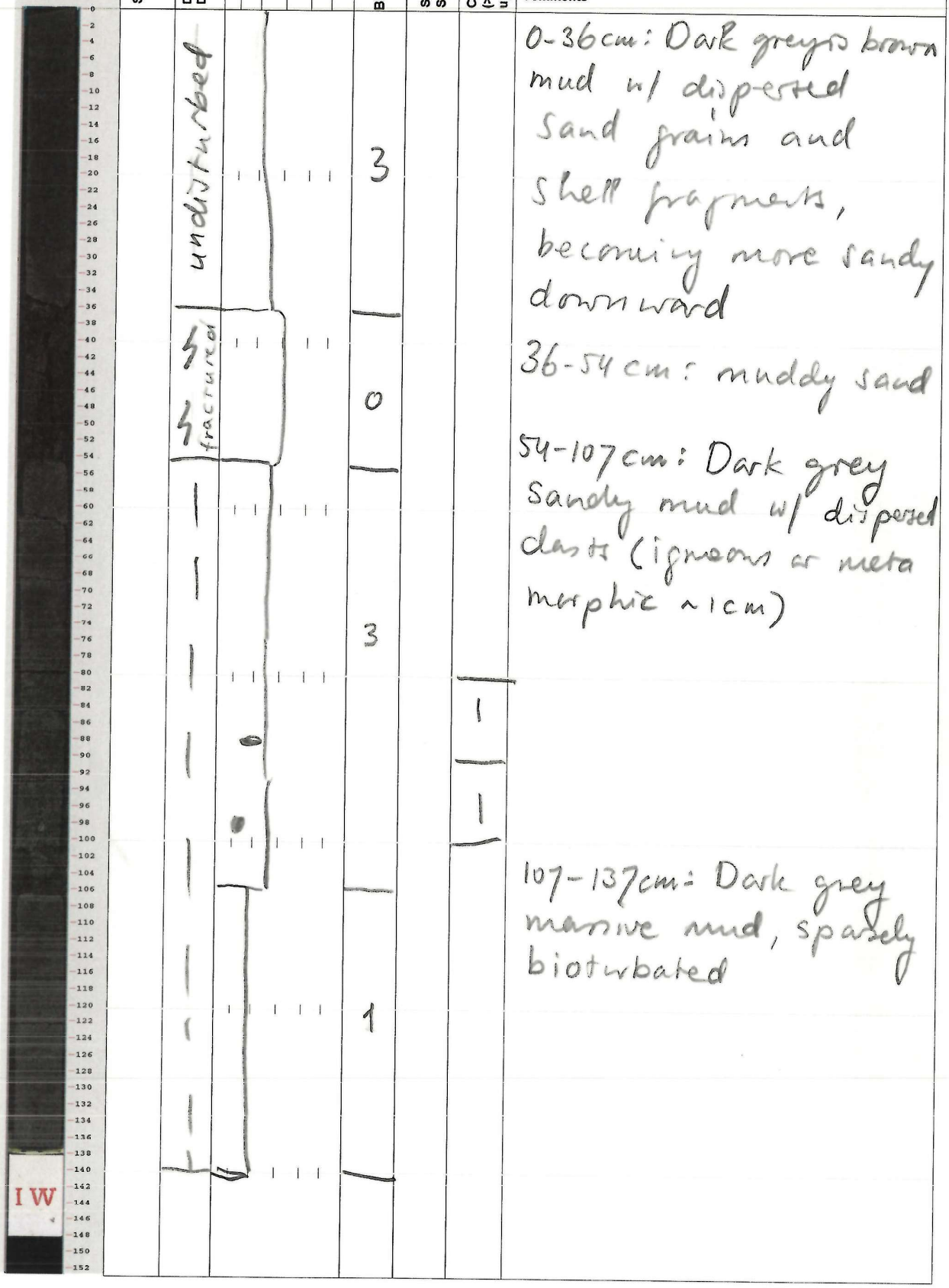
Some vertical burrows

common shell fragments

400-U1607A-14R-4-A | SHLF12728191

Logged By: Sandra

Date: 9/17/2023



Comments

0-36cm: Dark greyish brown mud w/ dispersed sand grains and shell fragments, becoming more sandy downward

36-54cm: muddy sand

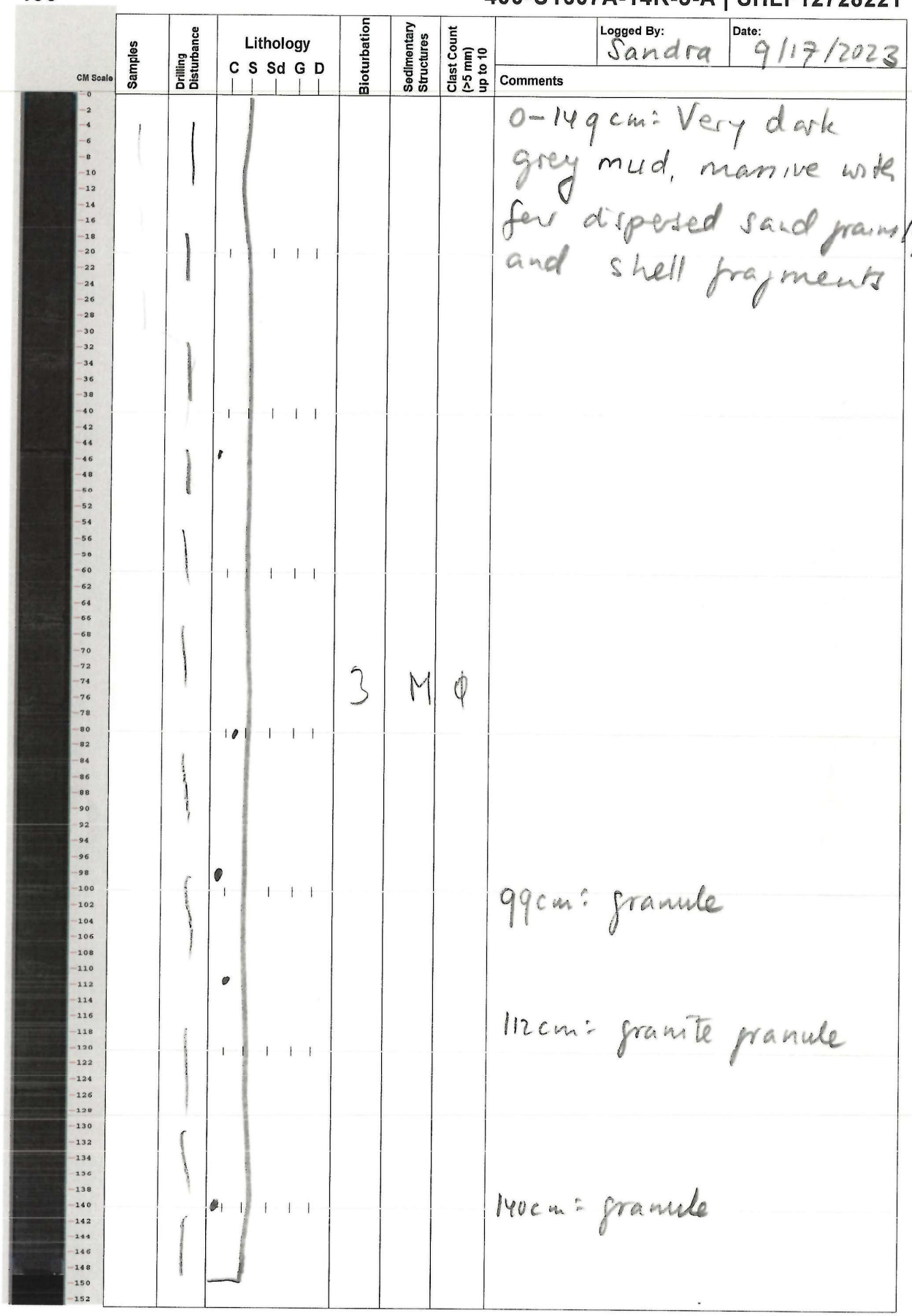
54-107cm: Dark grey sandy mud w/ dispersed clasts (igneous or metamorphic ~1cm)

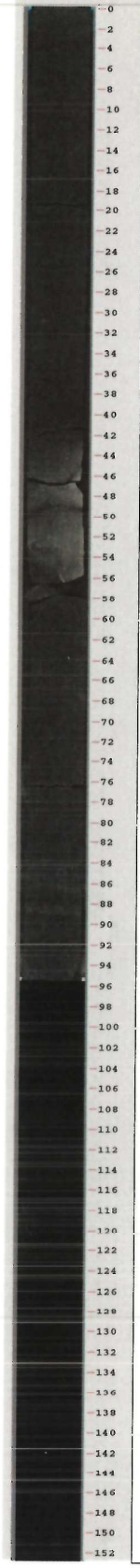
107-137cm: Dark grey massive mud, sparsely bioturbated

400-U1607A-14R-5-A | SHLF12728221

Logged By: Sandra

Date: 9/17/2023





Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: Sandra	Date: 9/17/2023
						Comments	

0-96 cm: Very dark grey mud, common shell fragments, massive

44-58 cm: greenish grey, cemented, but not calcite (HCl test -)

3 M Ø

84-96 cm: large semi-vertical pyritized burrow ~1 cm wide

400-U1607A-14R-CC-A | SHLF12728281



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: Sandra	Date: 9/17/2023
						Comments: Same as 5.6	

400-U1607A-15R-1-A | SHLF12728461

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: CG	Date: 18 Sep
0–152		0		4	v		Comments	

Sandy mud
dark grey green

Heavily bioturbated = pyritised burrows (appear white/yellow)

planar stratification v. faint / disturbed.

rare 'clasts' <5mm.

increasing sand + darkness down core.

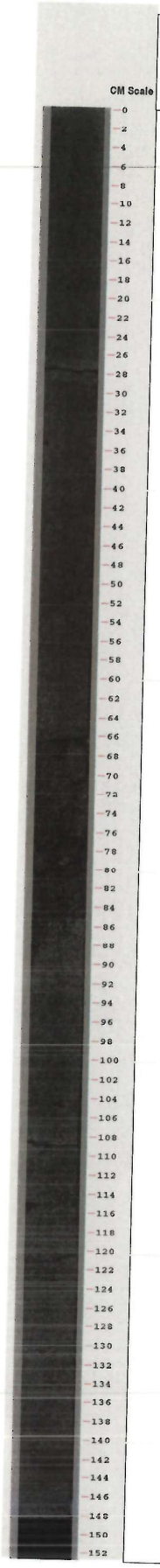
4

shell frags.

Coarser

Logged By: GG

Date: 18 Sep



CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20				U			Bioturbated grey green sandy mud. brown 0-33cm LC grad ~ 30cm
20–30				4			33-base muddy sand
30–40				U		1	Dark greenish-Brown
40–52							coarse sand lenses upper 30cm
52–60				U			54-90
60–80				?		2	5 common clasts generally v. fine gravel
80–100				?			
100–130							Suggestion planar - wavy bedding here
130–140						2	

400-U1607A-15R-3-A | SHLF12728521

Logged By: GG

Date: 18 Sep



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
			U			0-94 muddy sand w dispersed clasts
					1	
					2	
					2	
					2	
					3	rusted ? pyratised shells
					4	
						LC: grad ~ 40cm + (colour grad ~10cm, interdispersed liths → clasts + coarse grain beneath up to 60cm)
					5	Sandy Mud, med grey green finer grainsize w coarse sands. dispersed clasts
					1	
					4	94 - base
						weak stratification

400-U1607A-15R-4-A | SHLF12728551

Logged By: GG

Date: 18 Sep.



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20		0		U			Sandy mud bioturbated fining down core. Pyratized burrows.
20–40				4		1	Shell frags
40–146							Concretion white.



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
	Ø		4	^	X	Concretion white
	X					0-50 Sandy Mud w̄ pyratized burrows greenish grey dark
	Frost X					Concretion - Creamy yellow
	X					50-base Mud - dark grey. Bioturbated black burrows.
	Frost					
	X					

Logged By: GG

Date: 18 Sep



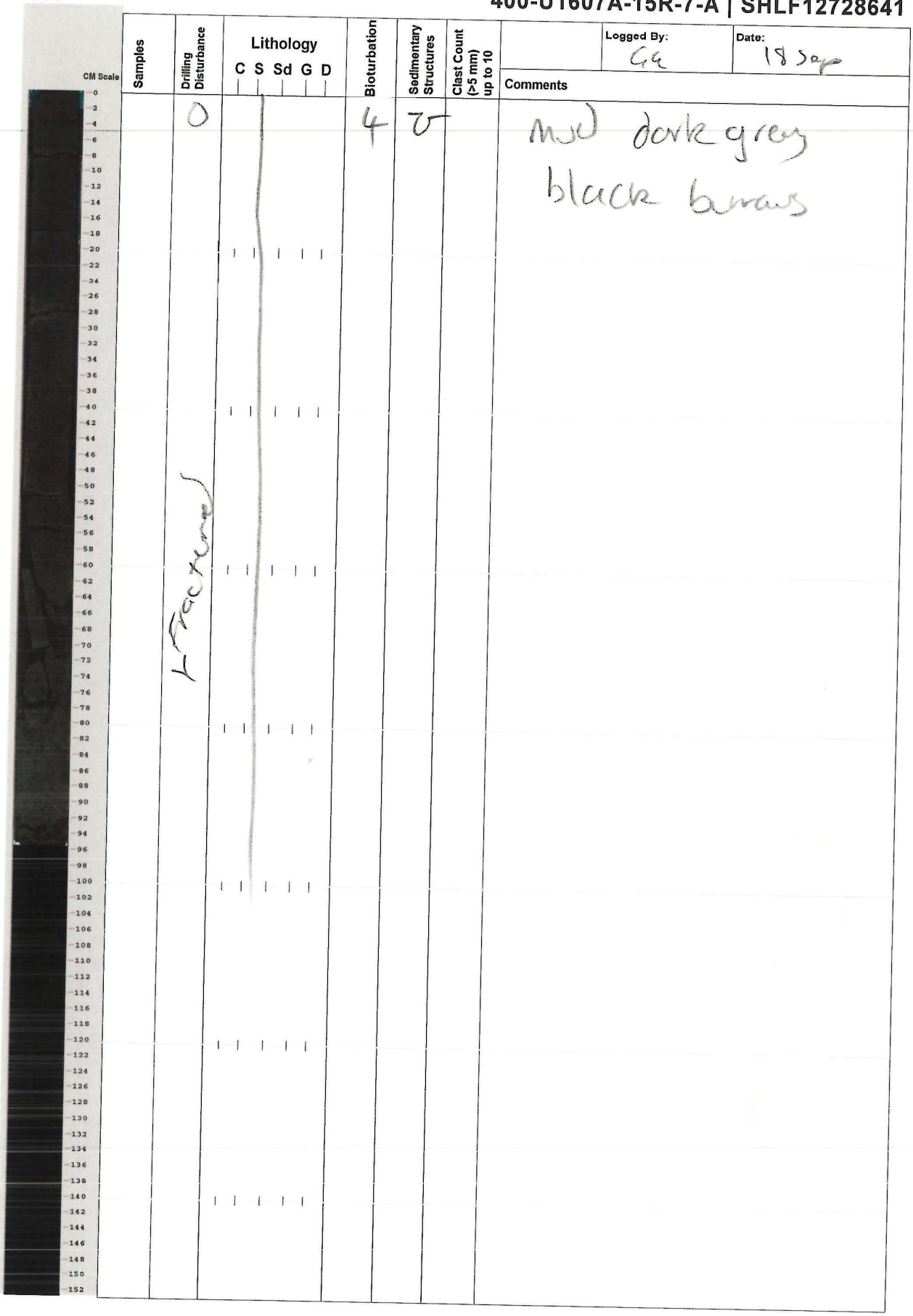
CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0							
2							
4				4	U		0-base
6							Mud, dark grey
8							
10							
12							
14							
16							
18							black burrows.
20							
22							
24							
26		X					
28							
30							
32							
34							
36							
38							
40							
42							
44							
46							
48							
50							
52							
54							
56							
58							
60		Fracture					
62							
64							
66							
68							
70							
72							
74							
76							
78							
80							
82							
84							
86							
88							
90							
92							
94							
96		Gravel					
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							

Logged By: GG

Date: 18 Sep

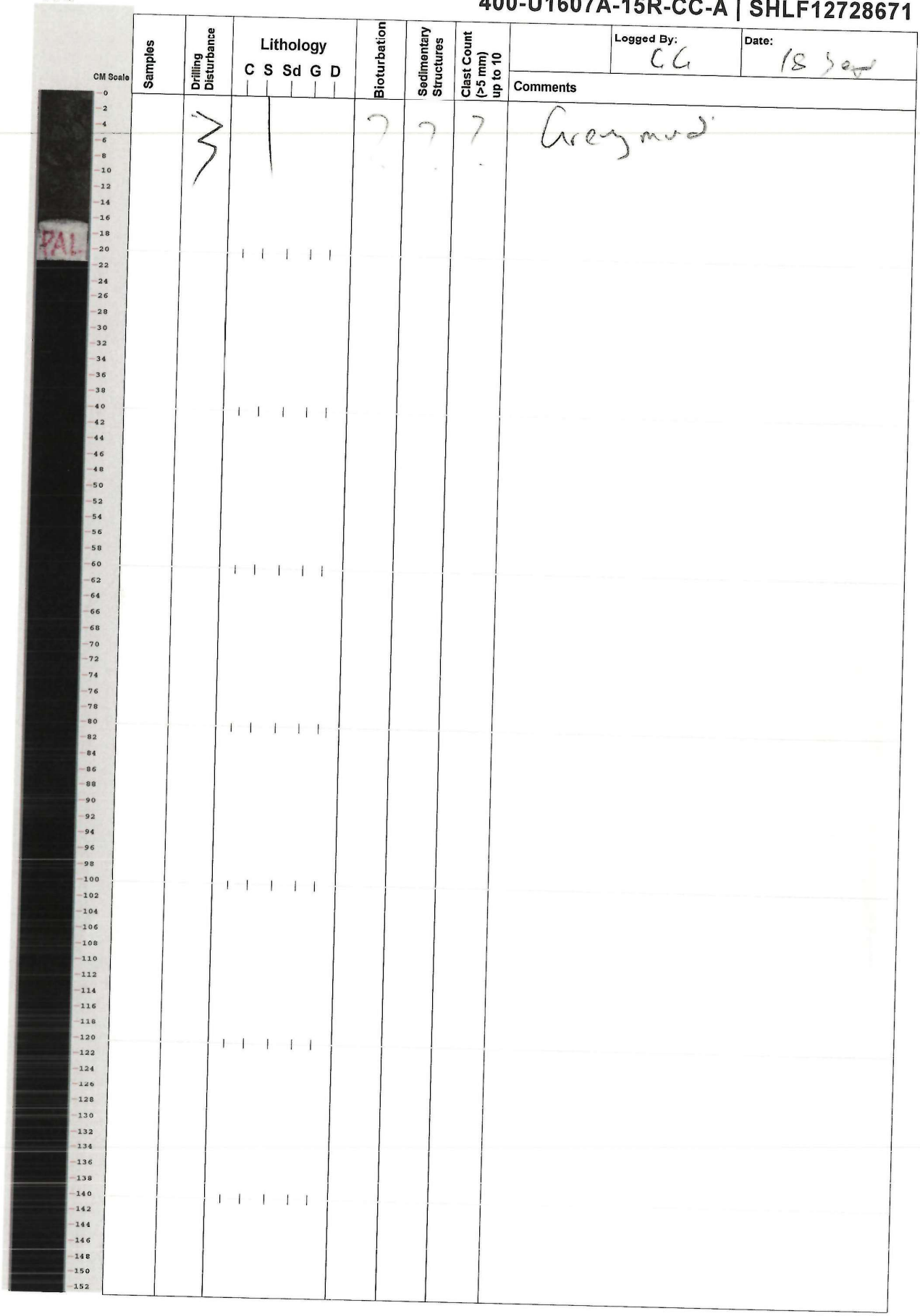
400

400-U1607A-15R-7-A | SHLF12728641



400

400-U1607A-15R-CC-A | SHLF12728671

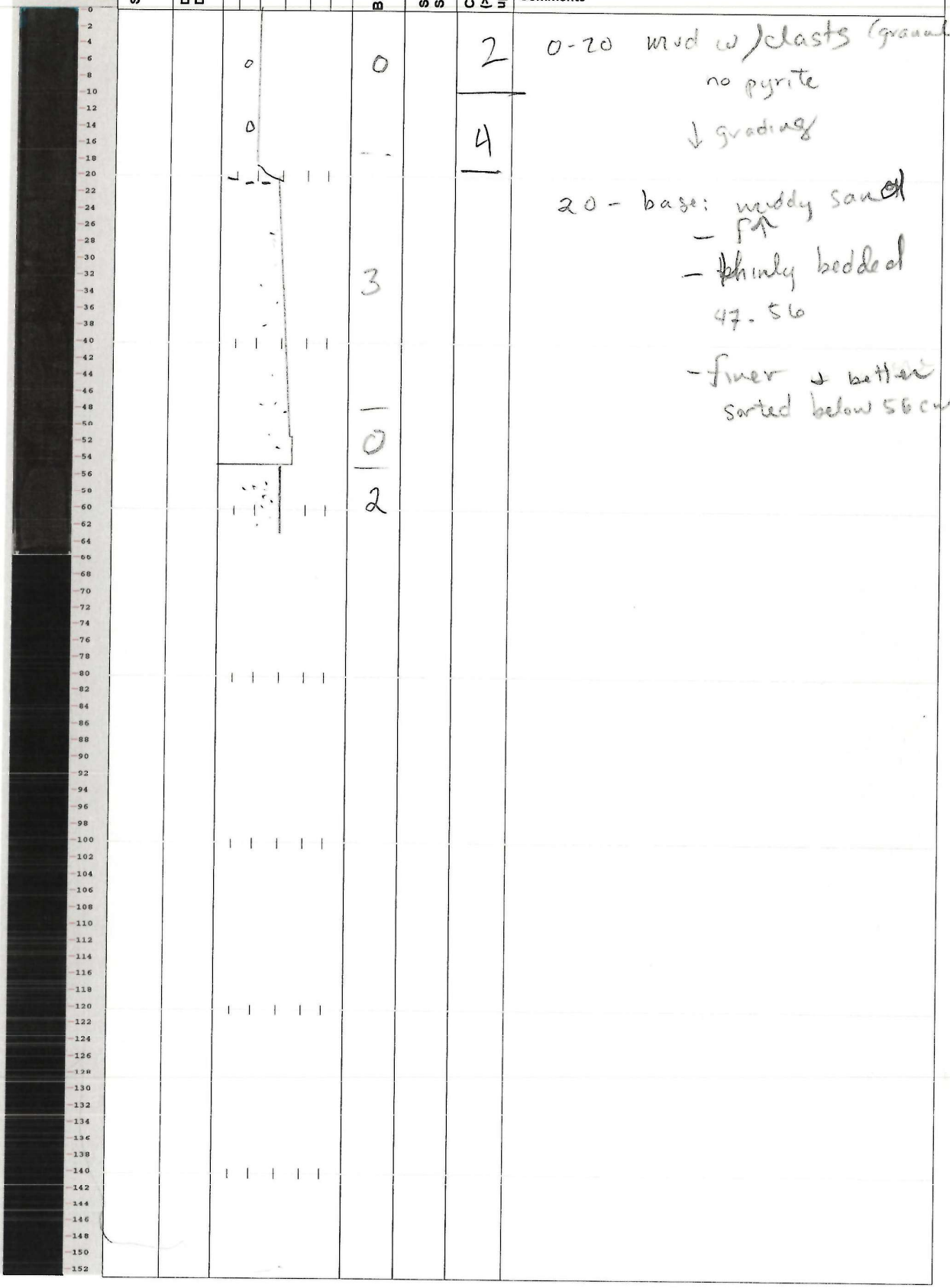


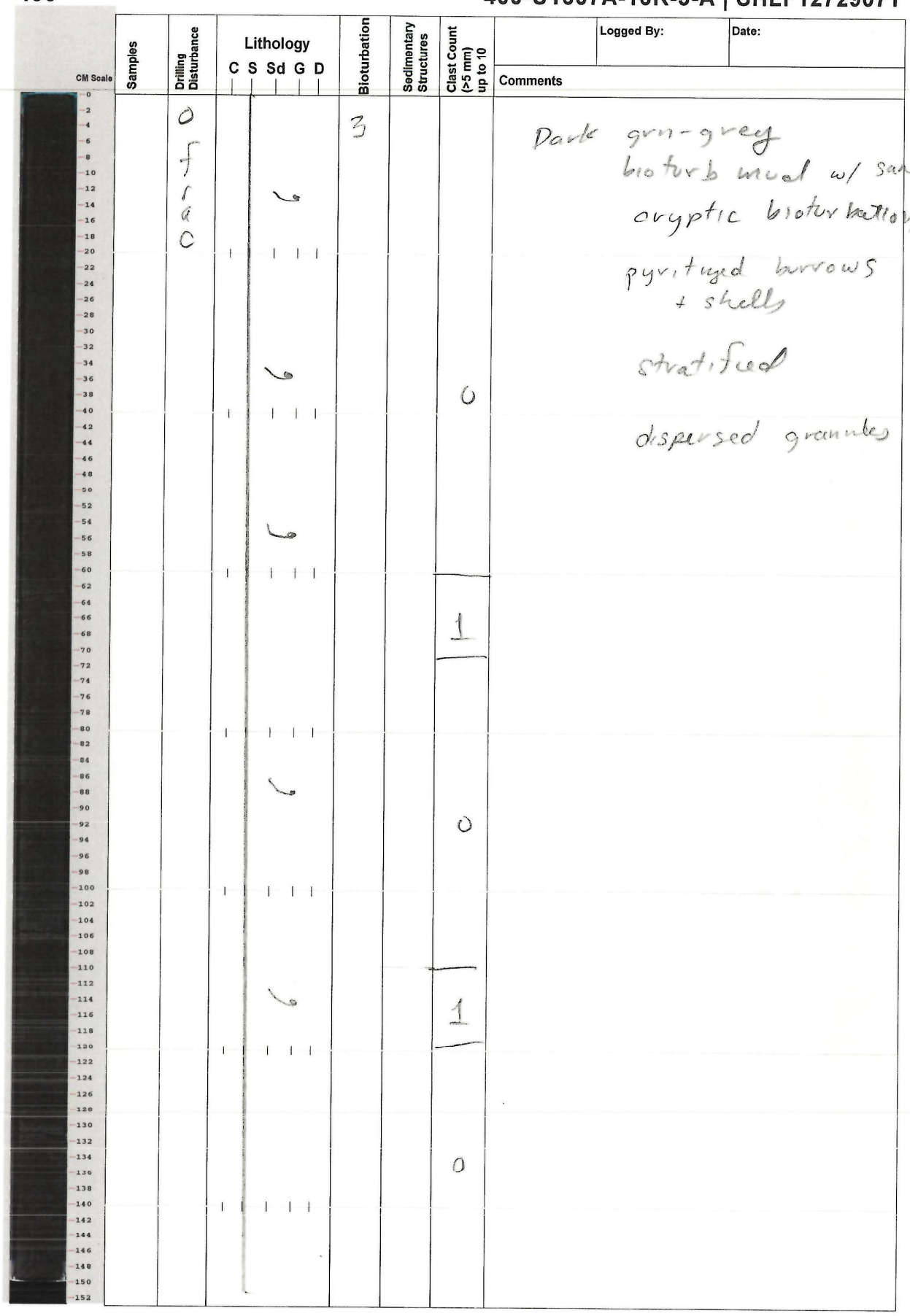
400-U1607A-16R-4-A | SHLF12729101

Logged By:

Date:

Comments




CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Date:
Comments
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
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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
0
frac
3
6
6
6
6
0
1
0
1
0
Dark grn-grey
bioturb mud w/ sand
cryptic bioturbation
pyritized burrows
+ shells
stratified
dispersed granules

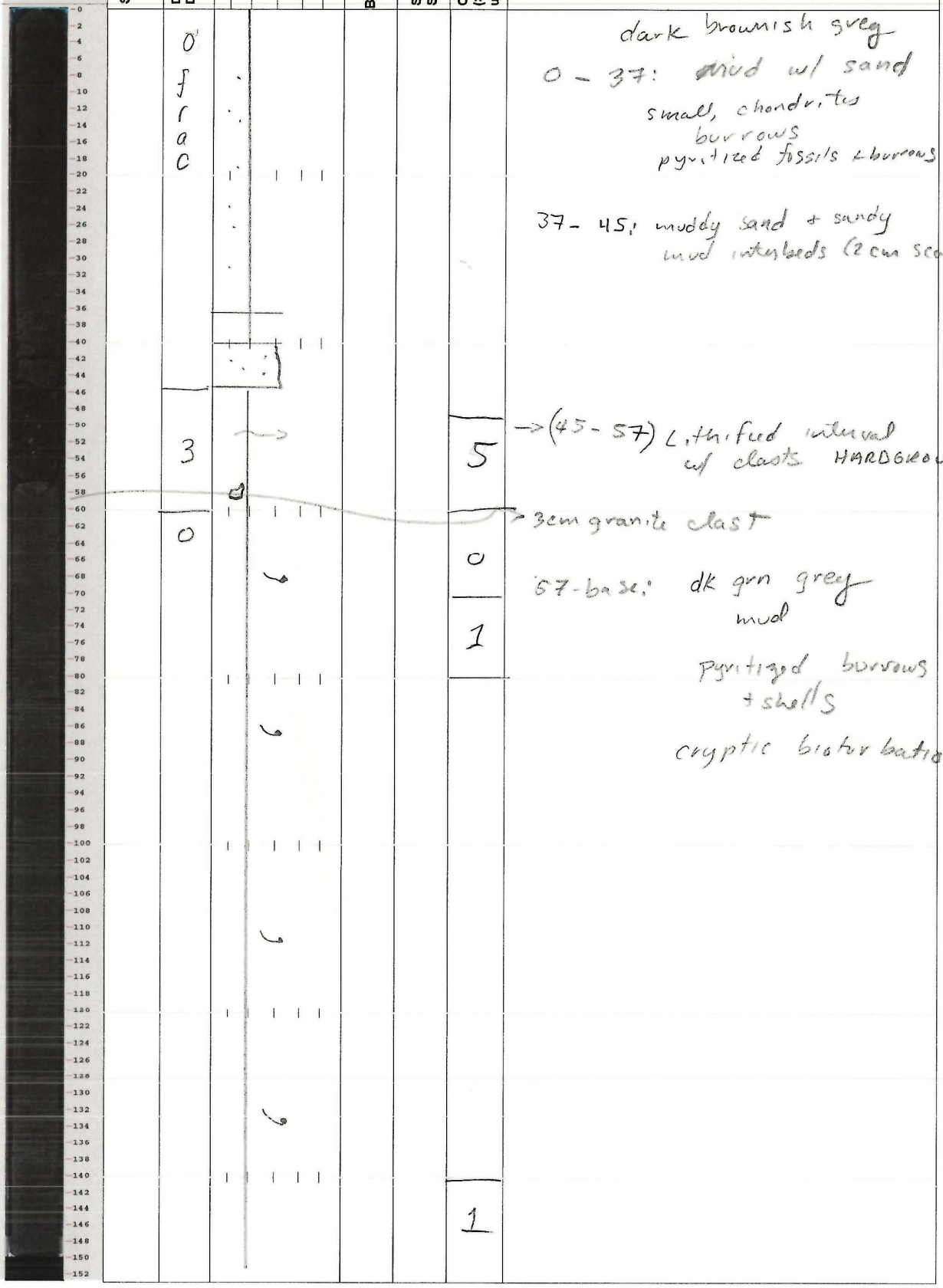


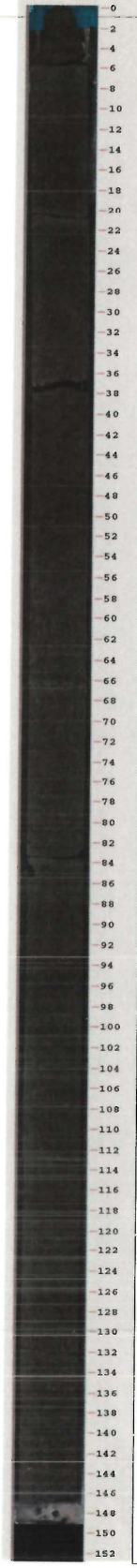
CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
							Comments	
0–20		3					dk grn-grey 0-base; bioturb mud pyritized shells + burrows	
20–40							stratified	
40–80								
80–98	TS						* (86-97) - dark grey, but $CaCO_3$ cemented dries out quickly	
100–140								

400-U1607A-16R-1-A | SHLF12729011

Logged By: TF

Date: 9/18/23





Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
	0 cracked		4 4	0 0	

Logged By: GG

Date: 18 Sep.

Comments

C-base

Dark greyish green

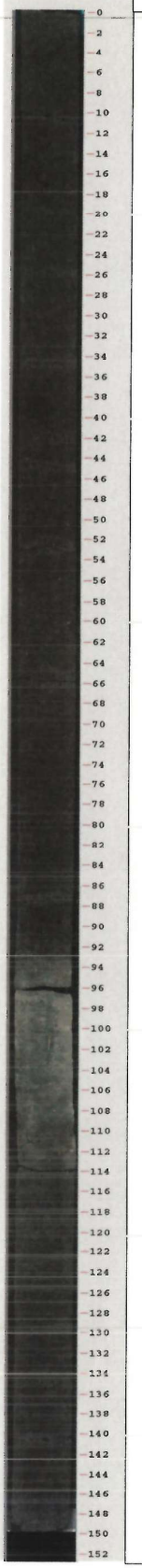
Sandy mud

Bioturbated

Common shell frags.

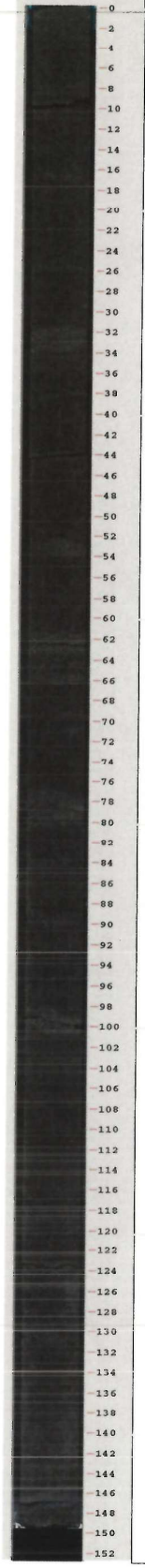
pyritised burrows.

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: GG	Date: 18 Sep
0–152		0		4	x		Comments: greenish gray sandy mud; shell frags; heavily bioturbated	



Logged By: GG

Date: 18 Sep.

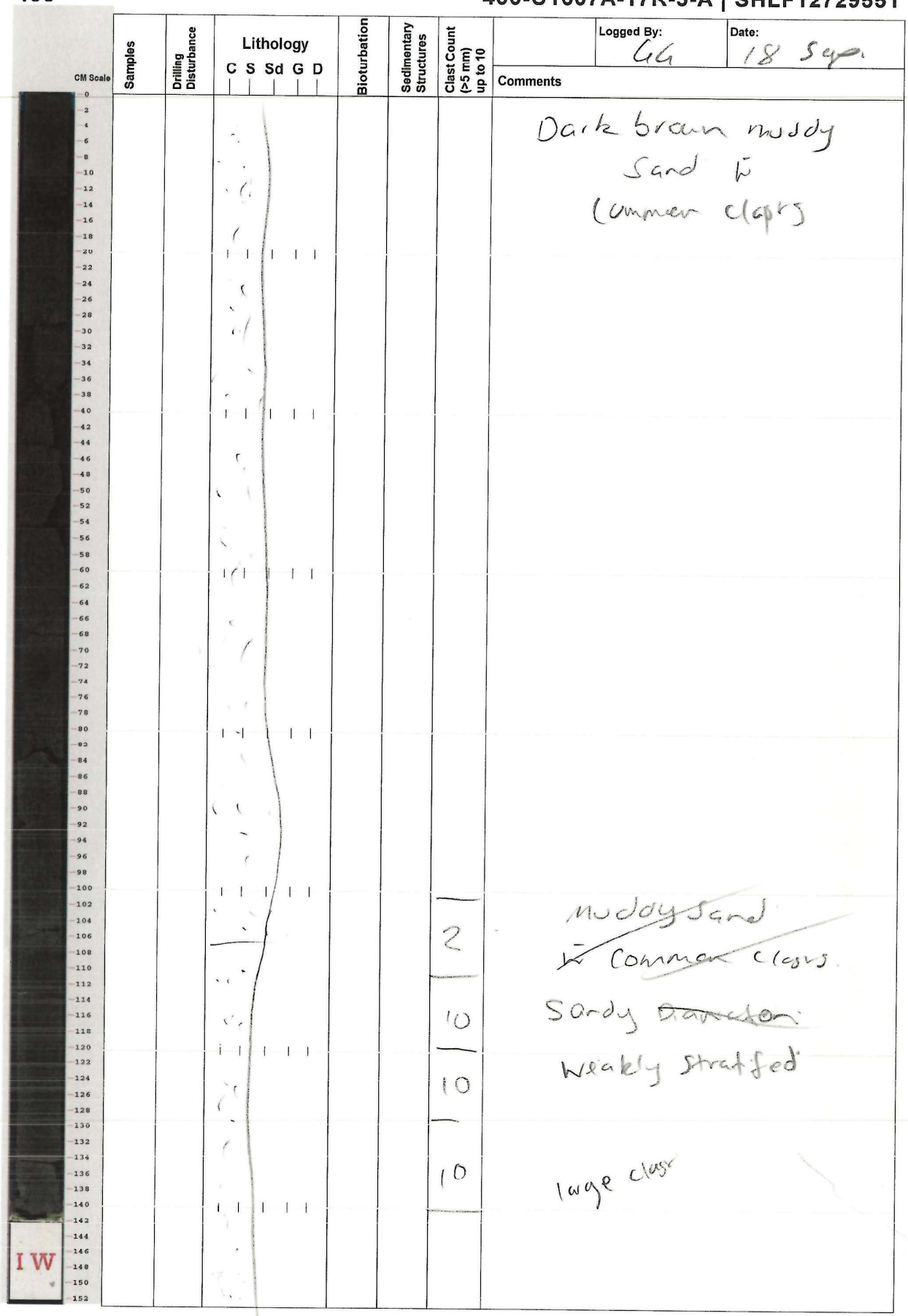


CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20		0		4	X	X	Mud w/ Sand (SS) black burrows v. dark grey.
20–40							
40–60							
60–80				4			
80–100							
100–120							
120–140							
140–152							

Logged By: GG

Date: 18 Sep.

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–2		0		4		8	Mud w sand (cs)
10					↓		black burrows.
70–72					↓		
80							coarsening downhole
88–100							black burrows fade from 100cm
140–142					≈		Two bracks.


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
GG
Date:
18 Sep.
Comments
Dark brown muddy Sand w common clasts
muddy sand w common clasts
2
Sandy
Weakly stratified
10
10
large clast
IW

Logged By:	Date:



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–10						1	Sandy mud w common clasts.
10–20						3	
20–30						4	
30–40						3	pyratised burrows.
40–50						2	Common shell
50–60							
60–70						1	
70–80						1	
80–100							
100–120							
120–134							
134–152							



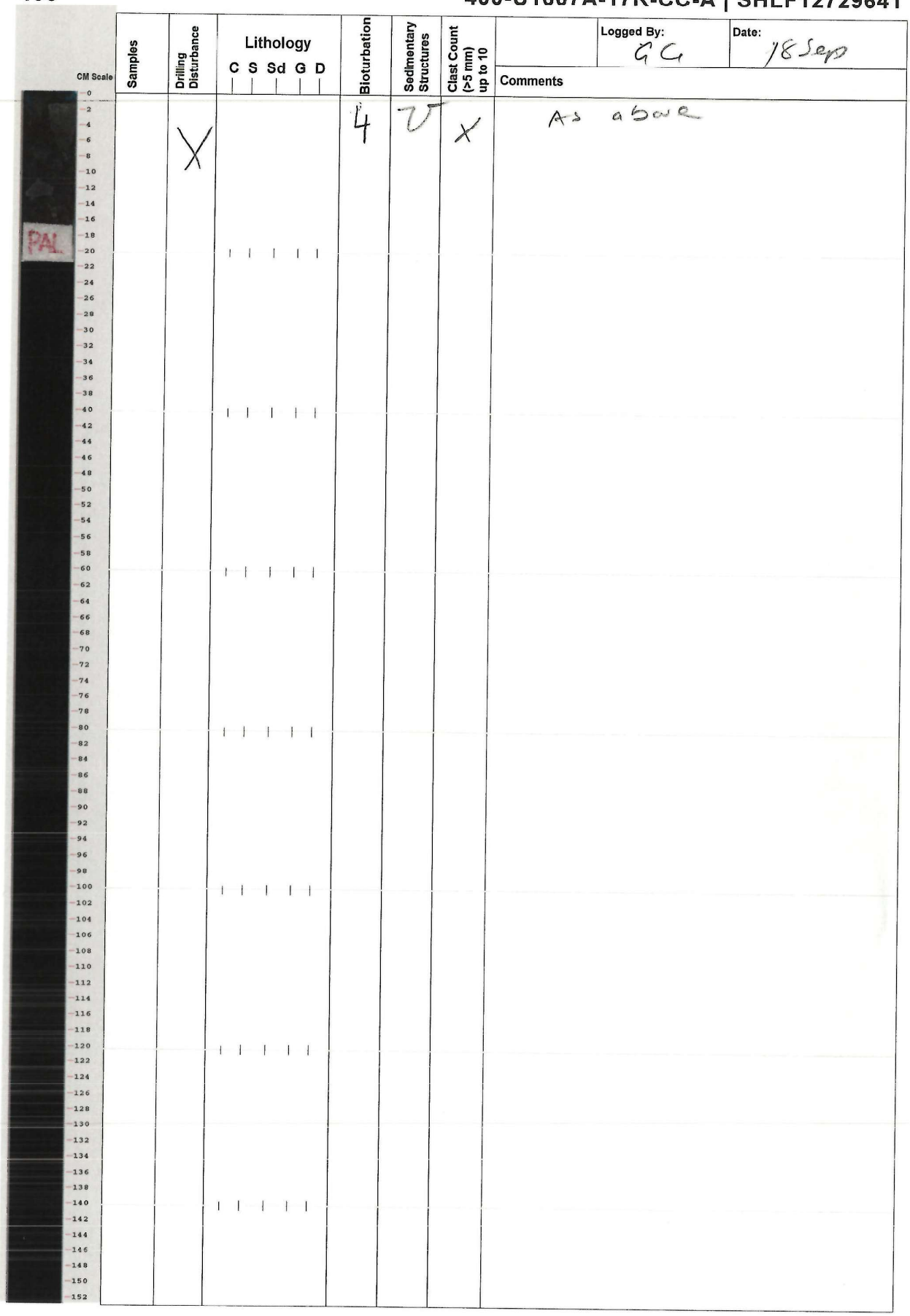
CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152		Fractured X		v 4	v		dispersed clasts Sandy Mud

Logged By: GG

Date: 18 Jan

400

400-U1607A-17R-CC-A | SHLF12729641



400

400-U1607A-18R-1-A | SHLF12730061

Logged By: TF	Date:

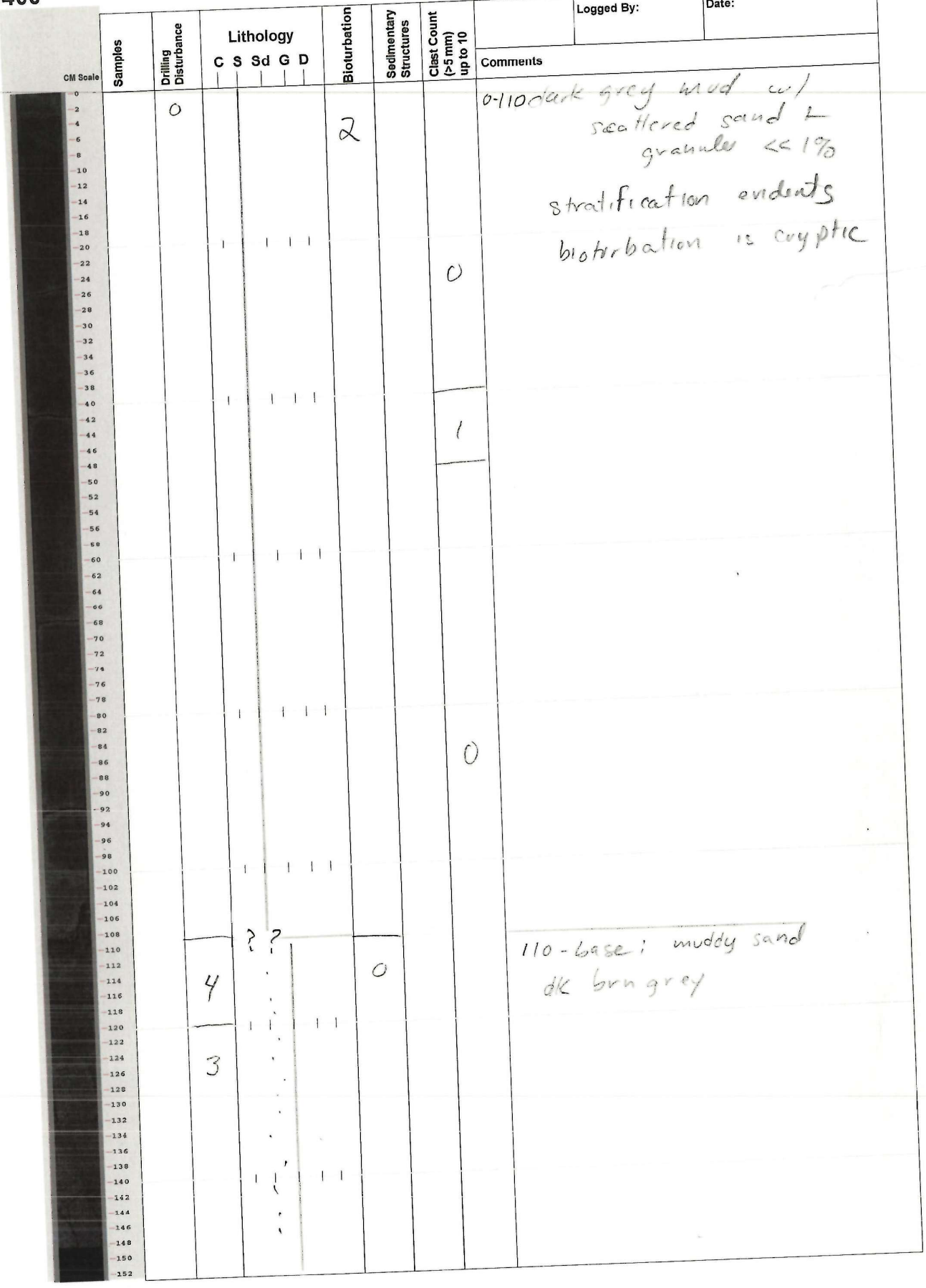
CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152				3			Dark grey mud w/ disp sand - minute black burrows - chondrites? - a few larger mud-lined burrows stratified becomes green-grey down core

400

400-U1607A-18R-2-A | SHLF12730091

Logged By:

Date:



400

400-U1607A-18R-3-A | SHLF12730121

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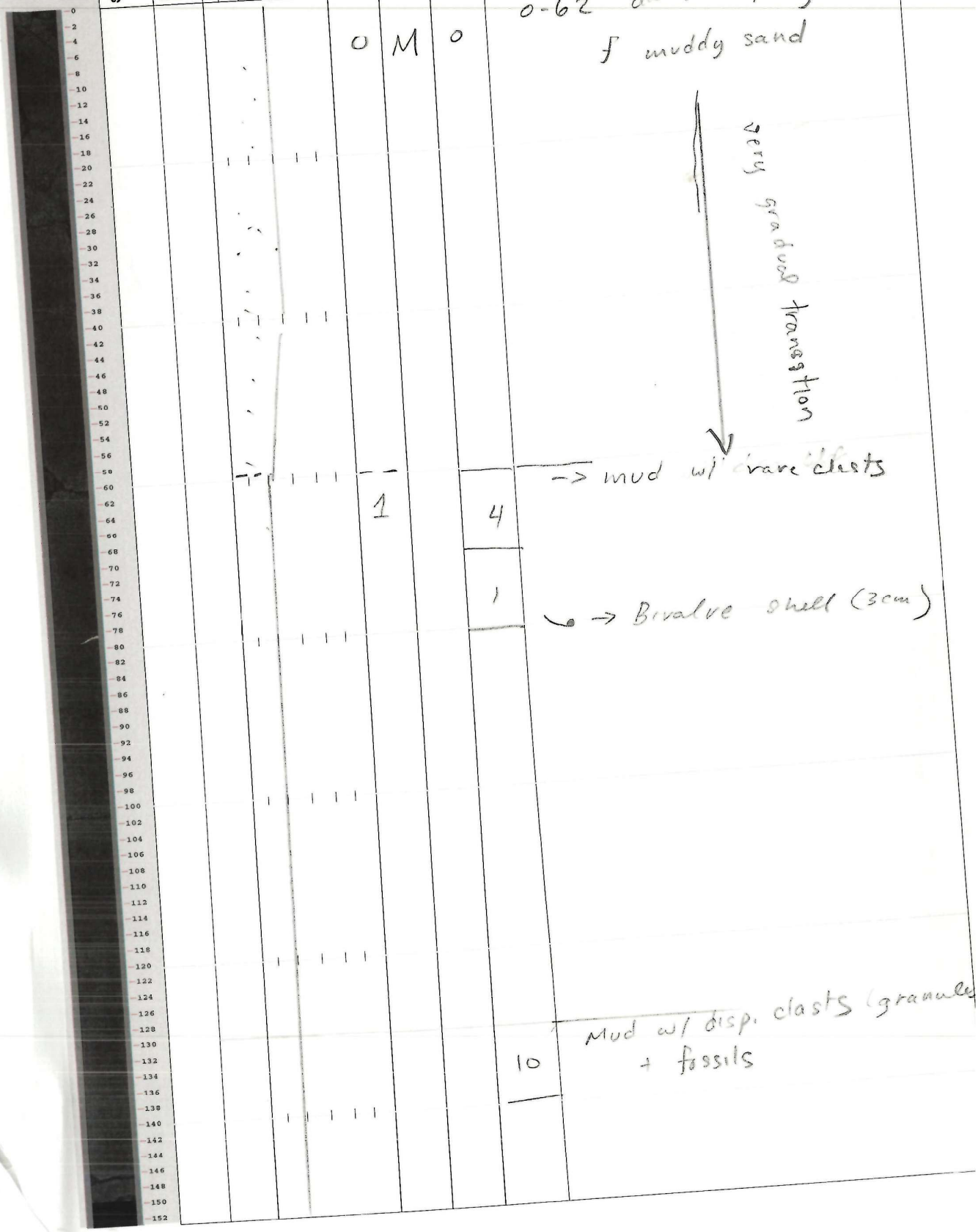
Date:



Logged By:

Date:

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20				2		1	Dark grey mud w disp clasts + fossils
20–40						6	laminations visible, but bioturb has disrupted it
40–60						2	
60–80						2	
80–100						1	
100–120						3	
120–140						3	
140–152						2	
						1	
						2	
						1	calcareous 138-142

400

400-U1607A-18R-5-A | SHLF12730181

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

0-18: yellow grn Calcareous mud

18 – 57: mud w/ disp clasts + fossils - pyritized stratified

pyrite

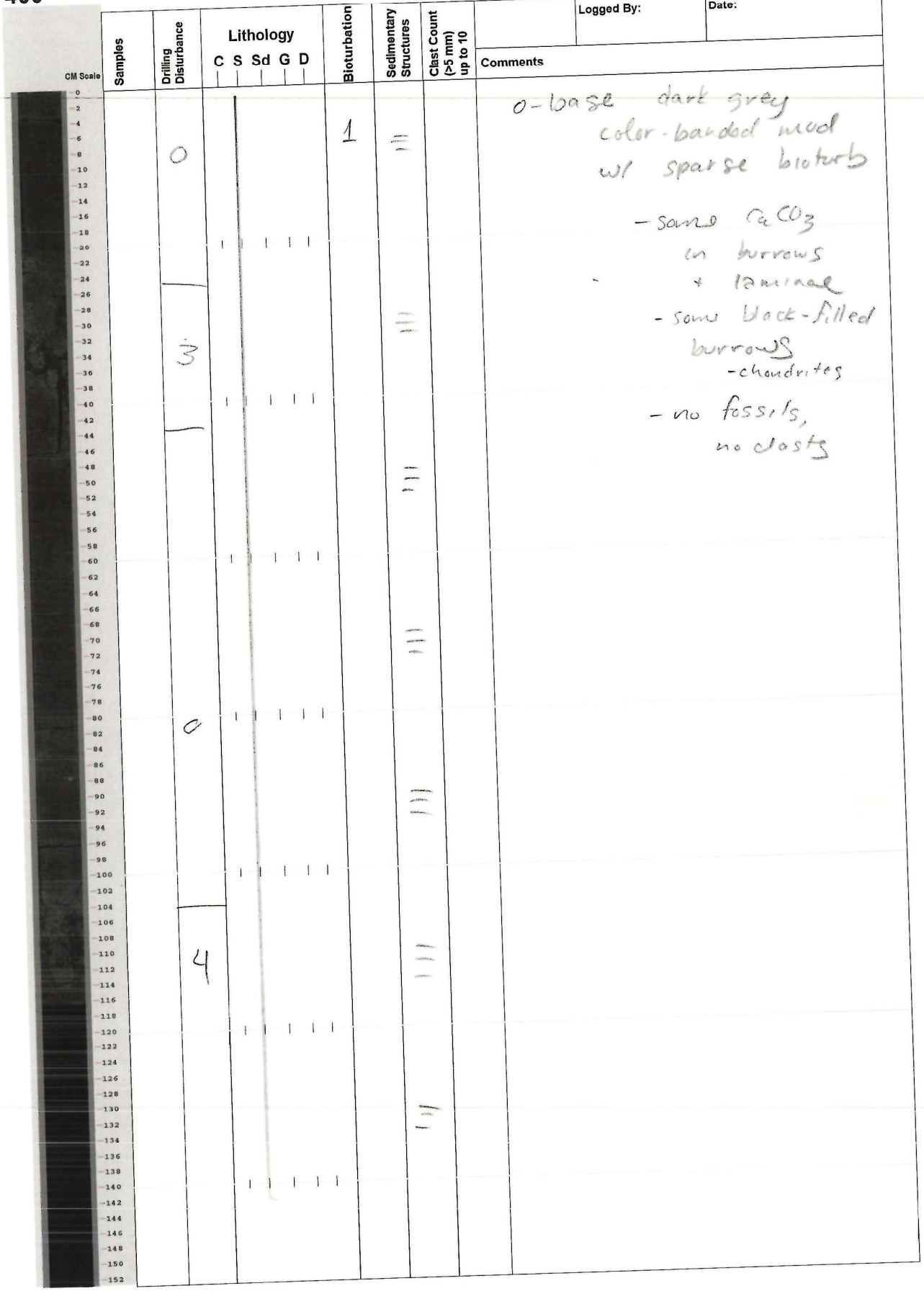
57 - laminated mud w/ disp. clasts no fossils

1

IW

400-U1607A-18R-6-A | SHLF12730211

Logged By:	Date:



Comments

0 - base dark grey color-banded mud w/ sparse bioturb

- some $CaCO_3$ in burrows + laminae
- some black-filled burrows - chondrites
- no fossils, no clasts

400

400-U1607A-18R-7-A | SHLF12730241

Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	



4 breccia

As prev. section

400-U1607A-19R-1-A | SHLF12730611

Logged By: GG

Date: 18 Sep.

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152		2		3	2	0	Mud, Dark greenish grey Bioturbated (black burrows) color banding ↳ creamy grey. dark grey + grey thinly bedded? thickly laminated? rare shell fragments

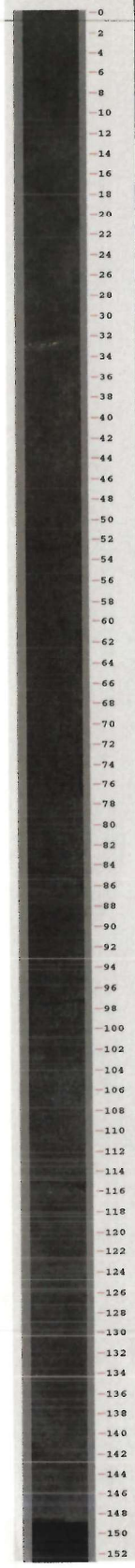
Logged By: GG

Date: 18 Sep

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–2		0				0	0-base Mud
4–18					v		Dark green grey bioturbated
20–38				3			thinly bedded cm-scale
40–58							rare shells
60–98							
100–102							black burrows & downcore
104–118				2			
120–138							
140–152							

Logged By: GG

Date: 18 Sep.



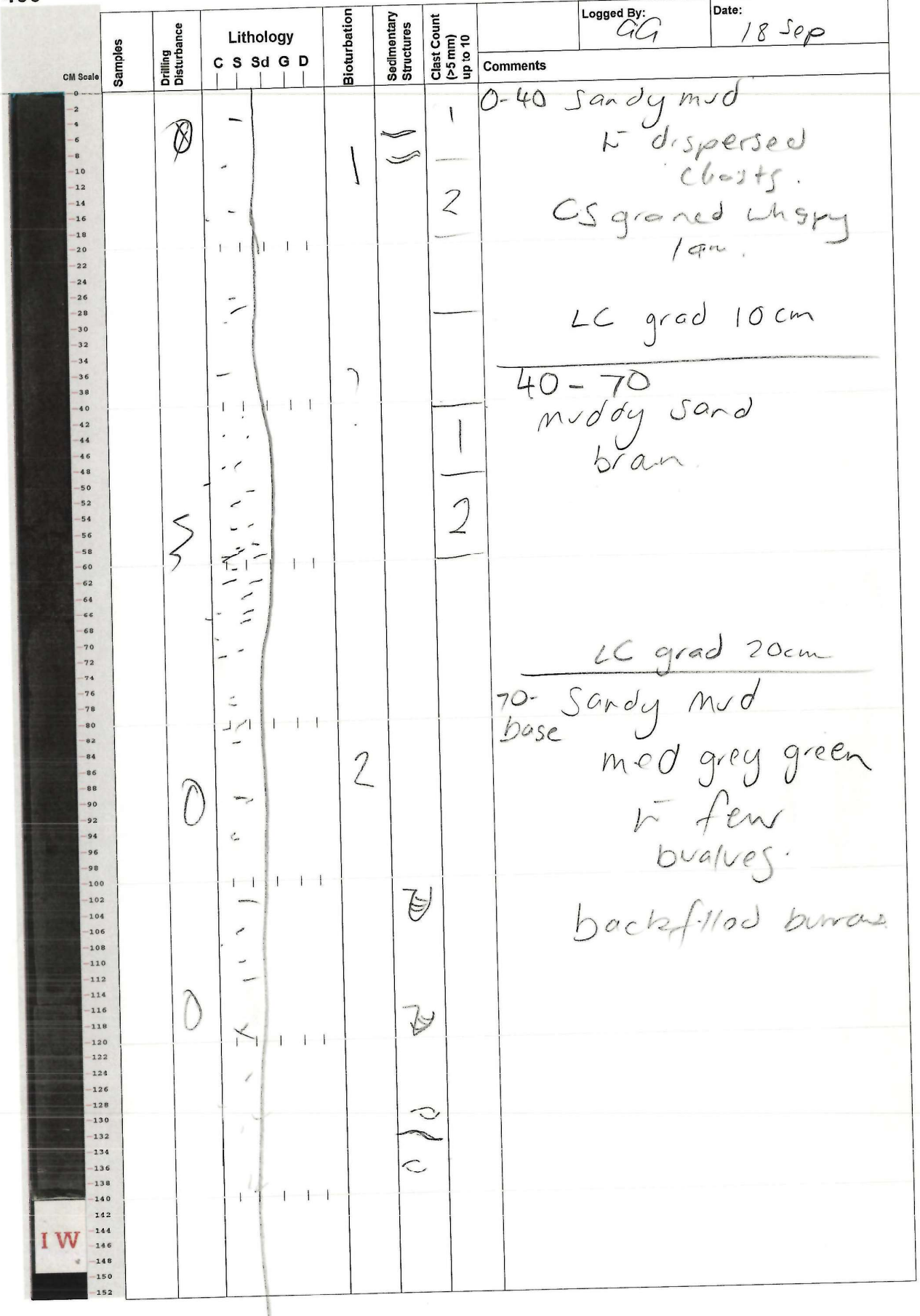
CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–40		0		0		0	0-40 Sandy Mud grey brown
				0			Common Shell frags
							bivalve fine LC grad 20cm.
40–116							40-116 muddy Sand Greyish brown
						2	
						5	
				2		2	
						1	very large 4cm clast fine grained black coprolite
						2	Large backfilled burrows. (Cs Sand)
						3	
				2		2	Whispy sand laminae LC grad ~20cm
116–base						1	116-base Sandy Mud w dispersed clasts
						1	
						1	

400

400-U1607A-19R-4-A | SHLF12730701

Logged By: GG

Date: 18 Sep

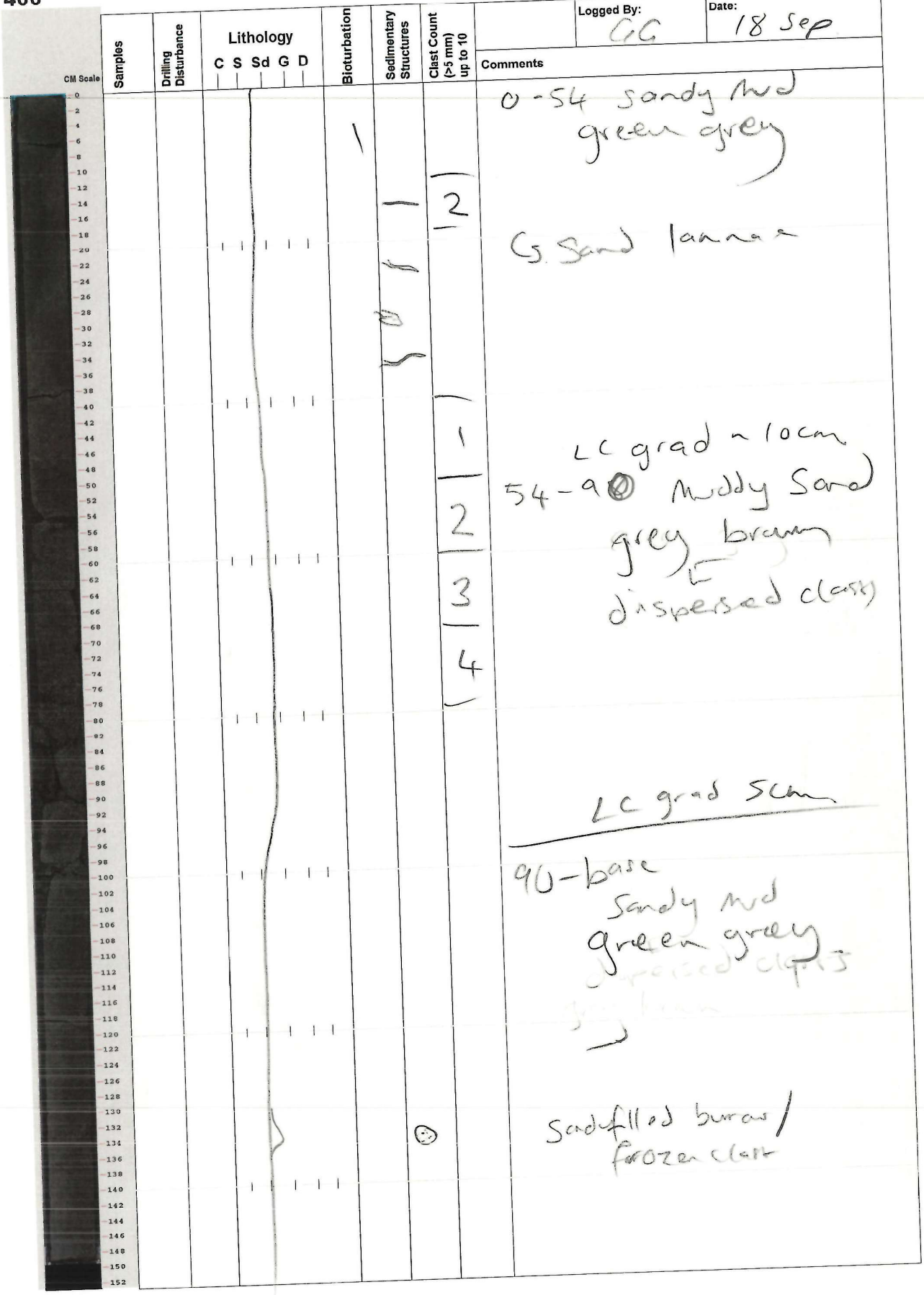


400

400-U1607A-19R-5-A | SHLF12730731

Logged By: CC

Date: 18 Sep

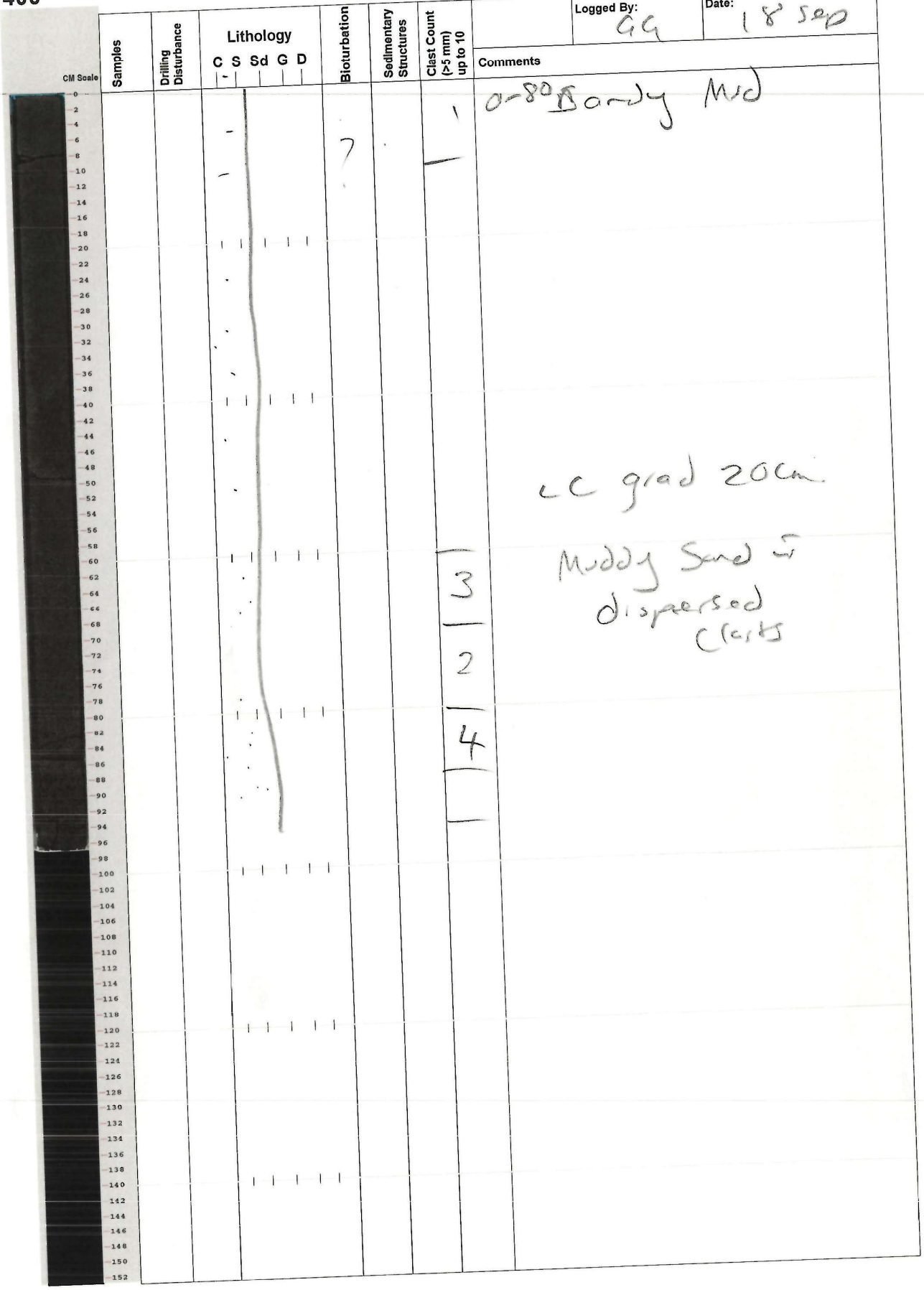


400

400-U1607A-19R-6-A | SHLF12730761

Logged By: GG

Date: 18 Sep

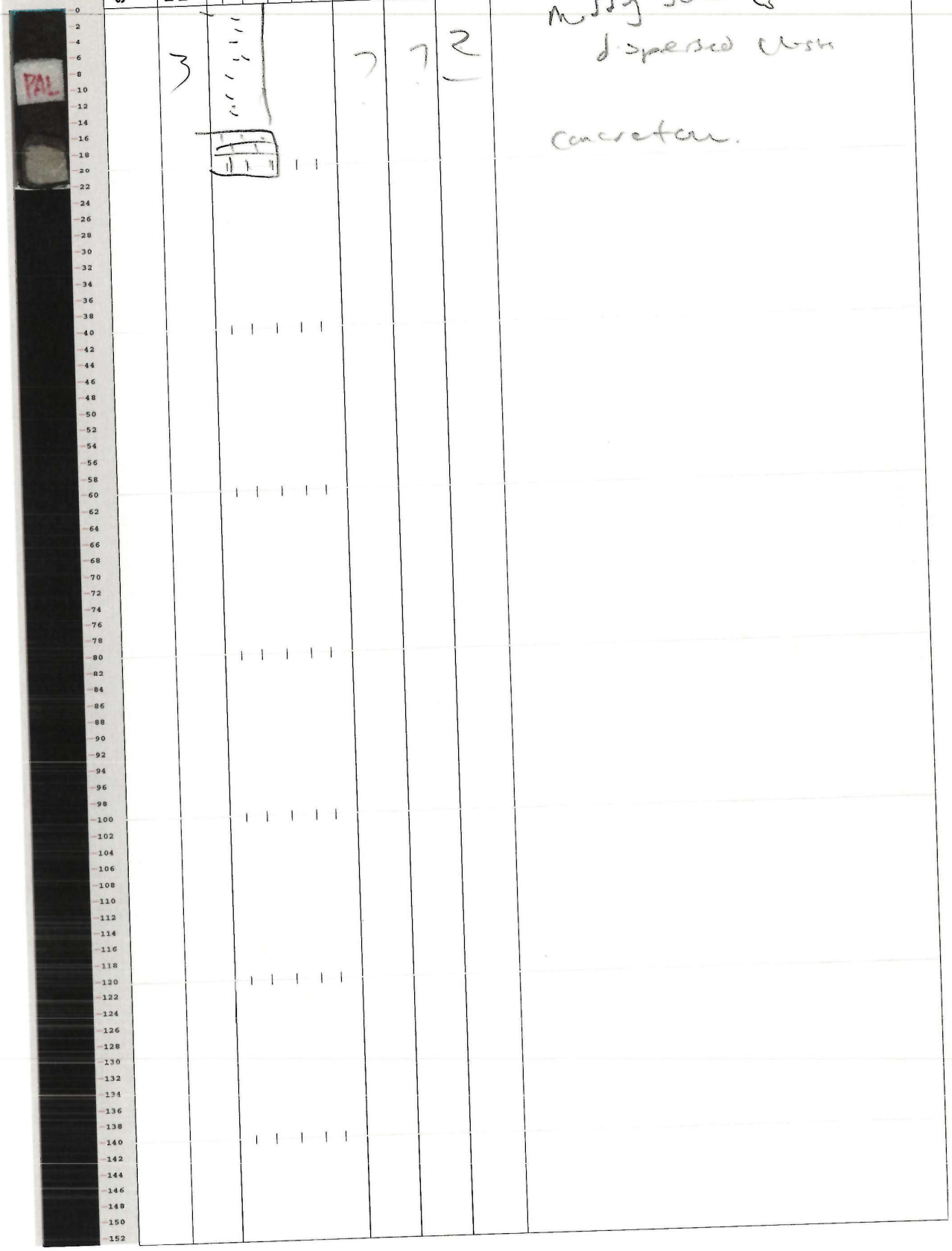


400

400-U1607A-19R-CC-A | SHLF12730791

Logged By: 9G

Date: 18 Sep





Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
	(4) fall-in 12cm					fall-in composed of carbonate-cemented sandy mud
	(0)		(3)			dk brown muddy sand ↳ likely bioturbated with no visible burrows in the core, very small, sparse burrows visible in exray
	(3) brecciated near biscuit		?			↳ intact intervals show subtle stratification ↳ sand component is generally moderately well-sorted w/ rare granules
						Shell @ 109cm

Logged By: L. Ives

Date: 18 Sep 2023

400-U1607A-20R-CC-A | SHLF12731211

Logged By:	Date:
L. Ives	18 Sep 23

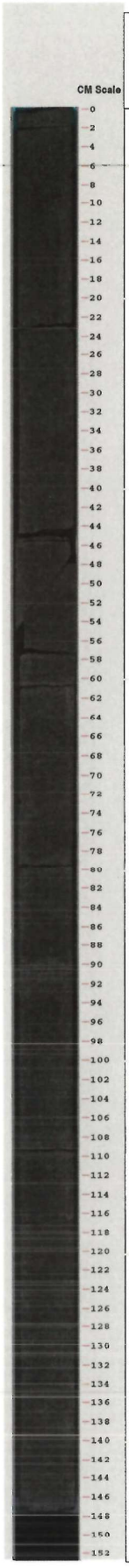
CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20		(4) brecciated					dk brown ~~sa~~ muddy sand.



Logged By: L Ives
Date: 18 SEP 23



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–4		fallin					3cm
6–8				3		X	dk greenish gry mud
8–20							↳ 3cm "with sand" to 36cm → organized into subtle, disrupted thin lam
20–40							↳ 17-24cm whispy laminae of calcareous mud
40–46							↳ burrows (rare, small) any pyritized
44–46					46		more vertical burrows
46–54					Carb. cement. 54		46-54 cm carb-cemented interval
60–80							As above 46cm, but w/out sand
80–100							↳ pyritization of burrows really stand out here.
100–120							
120–140							



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: L. Ives	Date: 18 Sep
	(0)		(2)	=		Comments	

DK gry mud → almost brownish

↳ Stratification more clear + bioturbation less dense than in previous cores

→ yellow colored, disrupted calcite throughout burrows are both black + pyritized

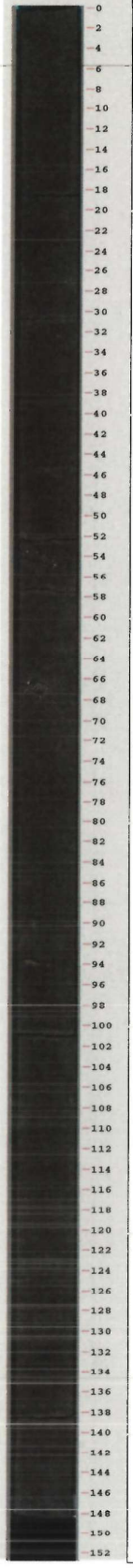
- laminations are moderately well preserved as bioturbation is lower

→ beautiful slickensides on (57-47cm) the faulted block, likely mm-scale, normal offset

→ granule lam @ 5cm

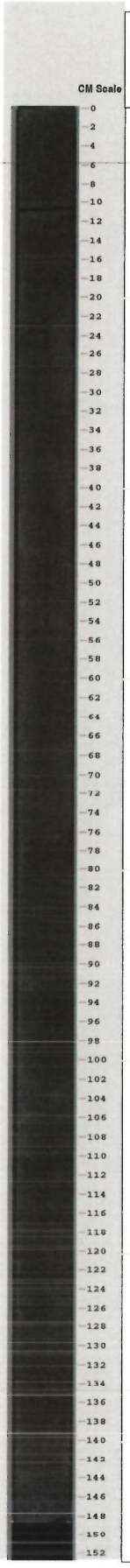
Logged By:	Date:
L Ives	18 Sep 23

Comments several large shells here

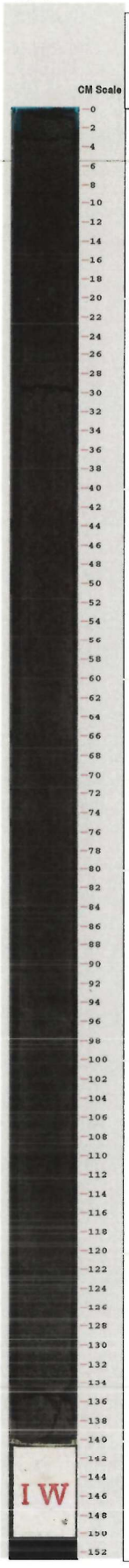


CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	
0–20				(2) ↓			~~very similar~~ to 2A the same ↳ w/ rare sand ~~bed~~ laminae
20–40							
40–60							
60–80							
80–92							
92–100				(3) ↓			---- grades to med gry @ ~95cm → more calcareous mud around → more larger + more diverse traces
100–120							
120–140							
140–152							

Logged By: L. Ives
Date: 18 Sep 2023



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20				3			dk brown mud w/ sand Appears strongly biot.
20–40							---- gravel begins 38 cm
40–60				~~2~~ 3			
60–80				2			--- gravel end 56cm well-sorted IL vf yellow sand + dk brown mud w/ very irregular ~~text~~ fabric rare vertical burrows + biogenic frag. suggest bio-t and mixing → new facies
80–140							
140–152				3			——— gravel @ 142 back to sandy mud



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
	0		3		

Logged By: L. IVES

Date: 18 Sep 23

Comments: Large + long horizontal + vertical burrows

similar facies to previous core

dk brown sand + mud, interlaminated to mixed

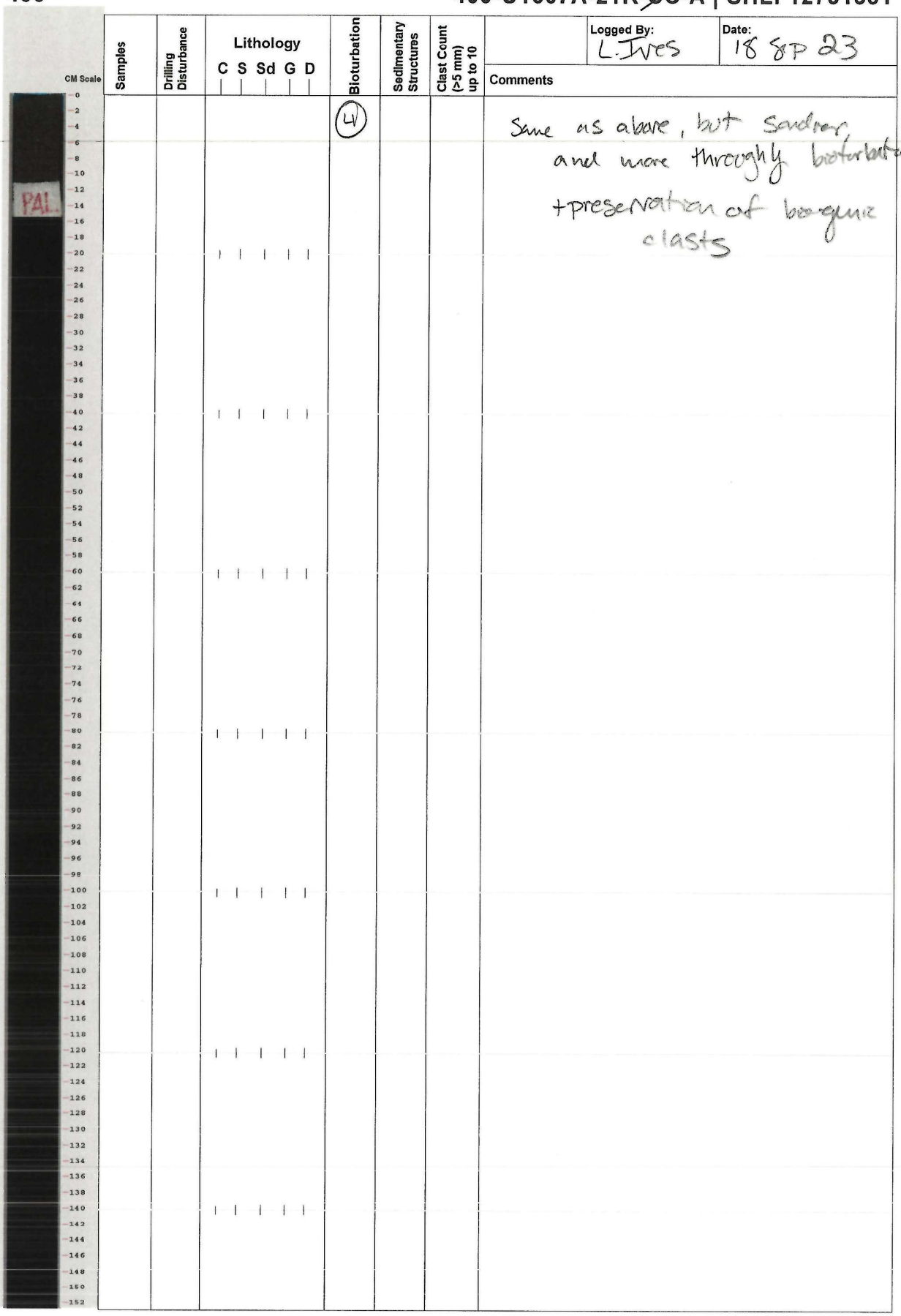
↳ moderately well sorted vf-f sand w/ dk brown mud.

↳ darker brown intervals are more mud, less sand

burrows @ 102 - 103 are pyritized.

1

→ little shell frag + granule layer above IW sample


CM Scale
PAL
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
L. Ives
Date:
18 SEP 23
Comments
4
Same as above, but sandier and more throughly bioturbated + preservation of biogenic clasts

CC

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: L. Ives	Date: 17 Sep 23
							Comments	

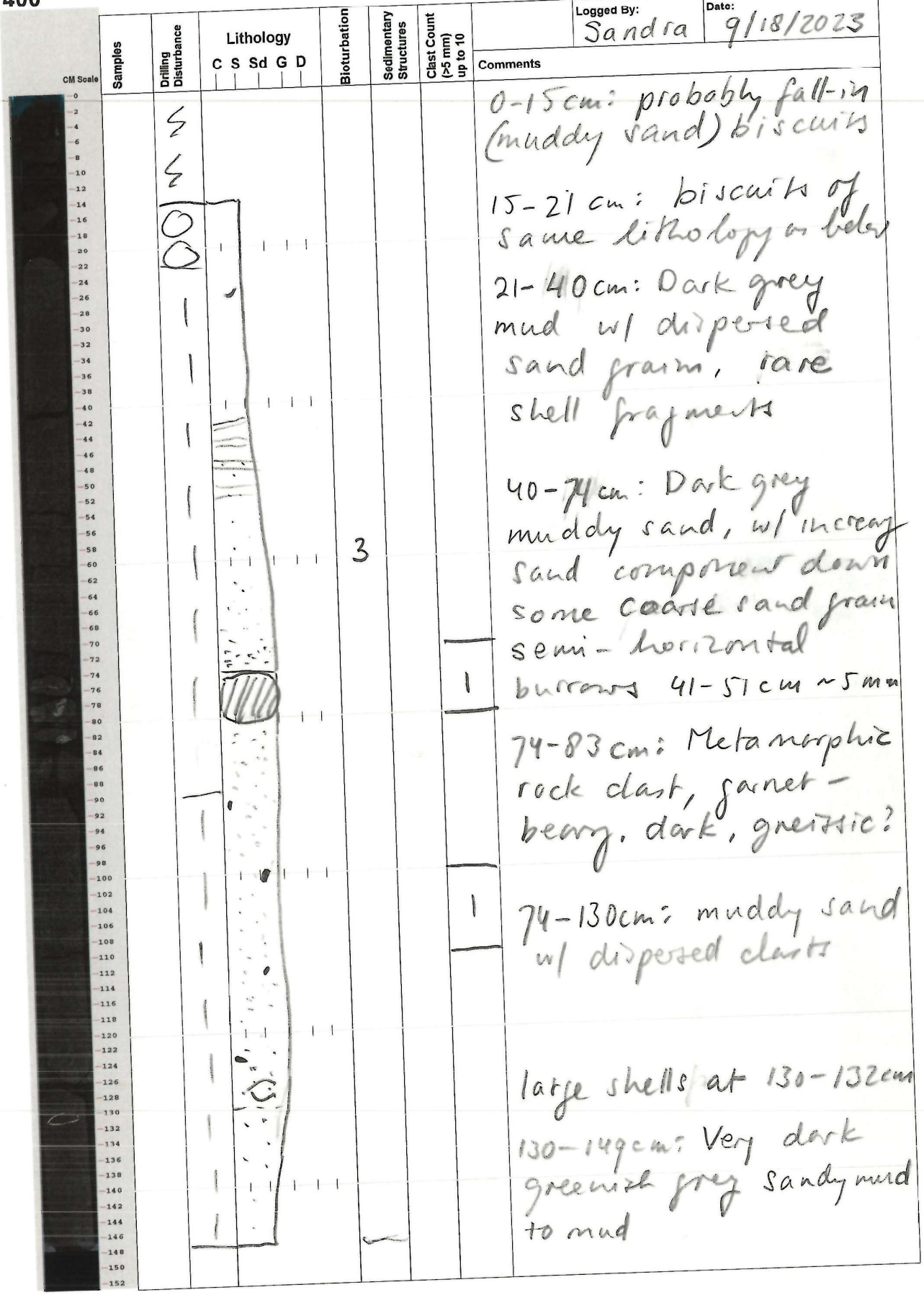
As above (6A)

400

400-U1607A-22R-1-A | SHLF12732061

Logged By: Sandra

Date: 9/18/2023

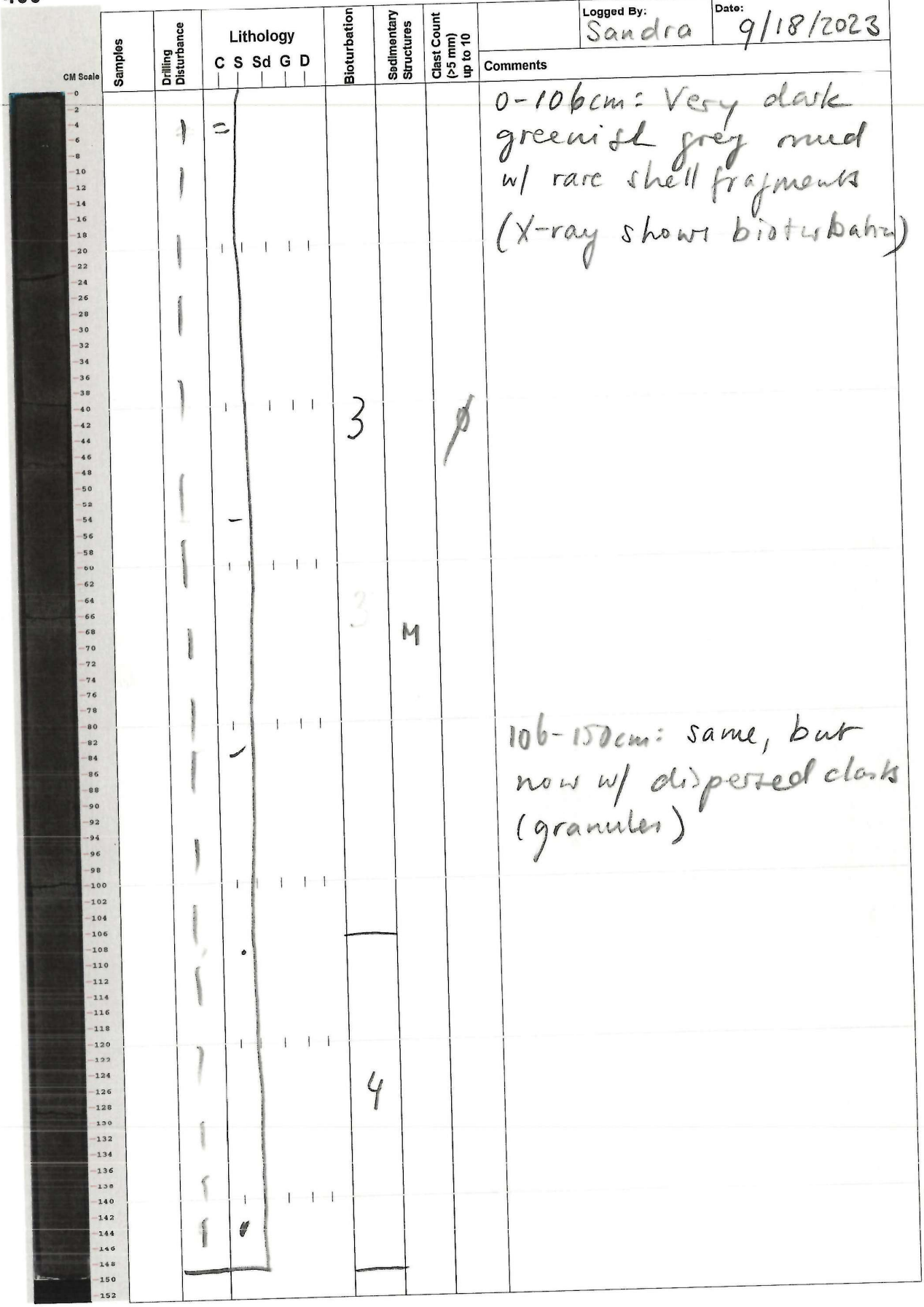


400

400-U1607A-22R-2-A | SHLF12732091

Logged By: Sandra

Date: 9/18/2023

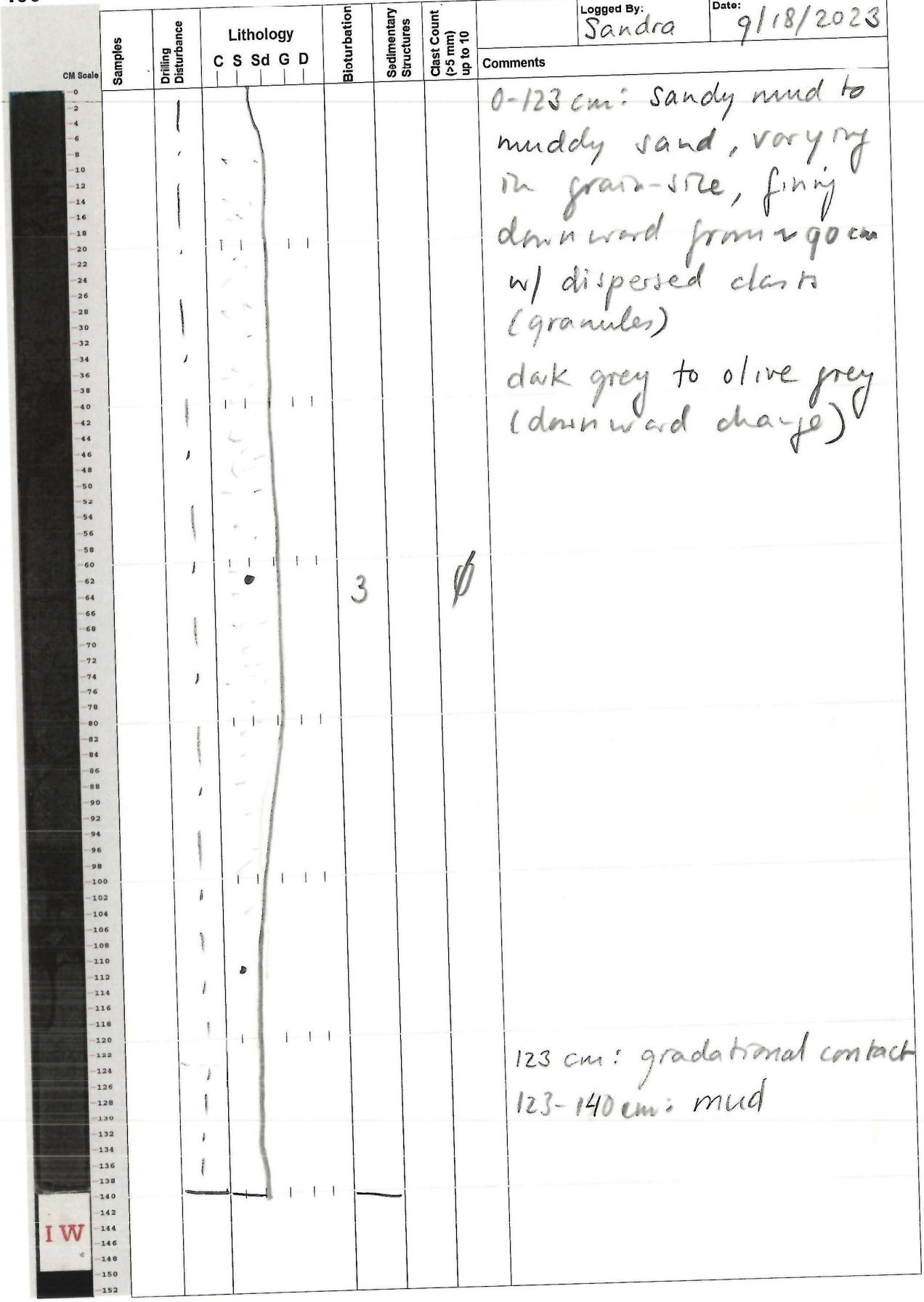


400

400-U1607A-22R-3-A | SHLF12732121

Logged By: Sandra

Date: 9/18/2023



Comments

0-123 cm: sandy mud to muddy sand, varying in grain-size, fining downward from ~90 cm w/ dispersed clasts (granules)

dark grey to olive grey (downward change)

123 cm: gradational contact

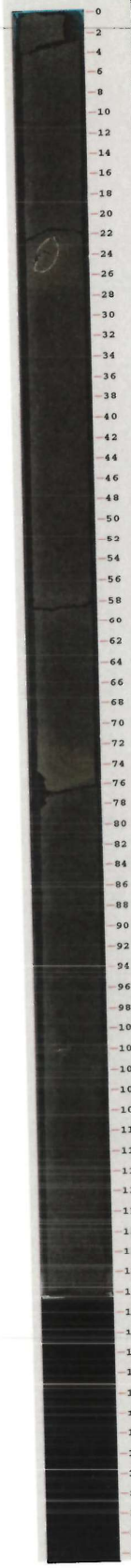
123-140 cm: mud

400

400-U1607A-22R-4-A | SHLF12732151

Logged By: Sandra

Date: 9/18/2023



Comments

0-127 cm: Very dark greenish grey mud, massive, w/ dispersed clasts down to 40 cm

22-26 cm: shells, intact live position? in yellowish calcareous mud bed 22-28 cm

72-77 cm: yellowish calcareous mud bed

102 cm: large shell frags

92-126 cm: more intensely bioturbated sand-filled burrows

400

400-U1607A-22R-5-A | SHLF12732181

Logged By: Sandra

Date: 9/18/2023



Comments

0-108cm: Dark grey sandy mud w/ rare shell fragments

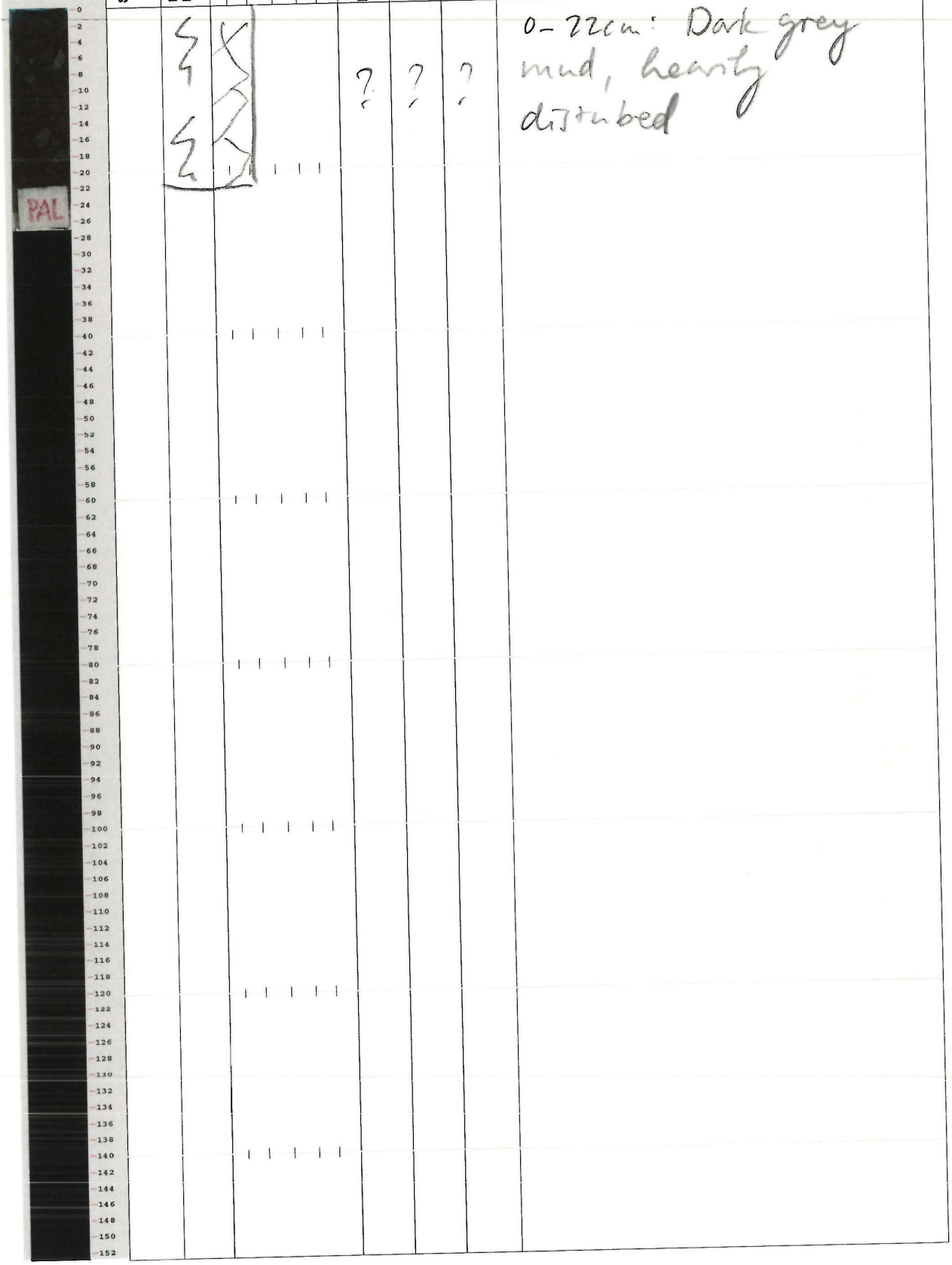
bottom of section is disturbed

400

400-U1607A-22R-CC-A | SHLF12732211

Logged By: Sandra

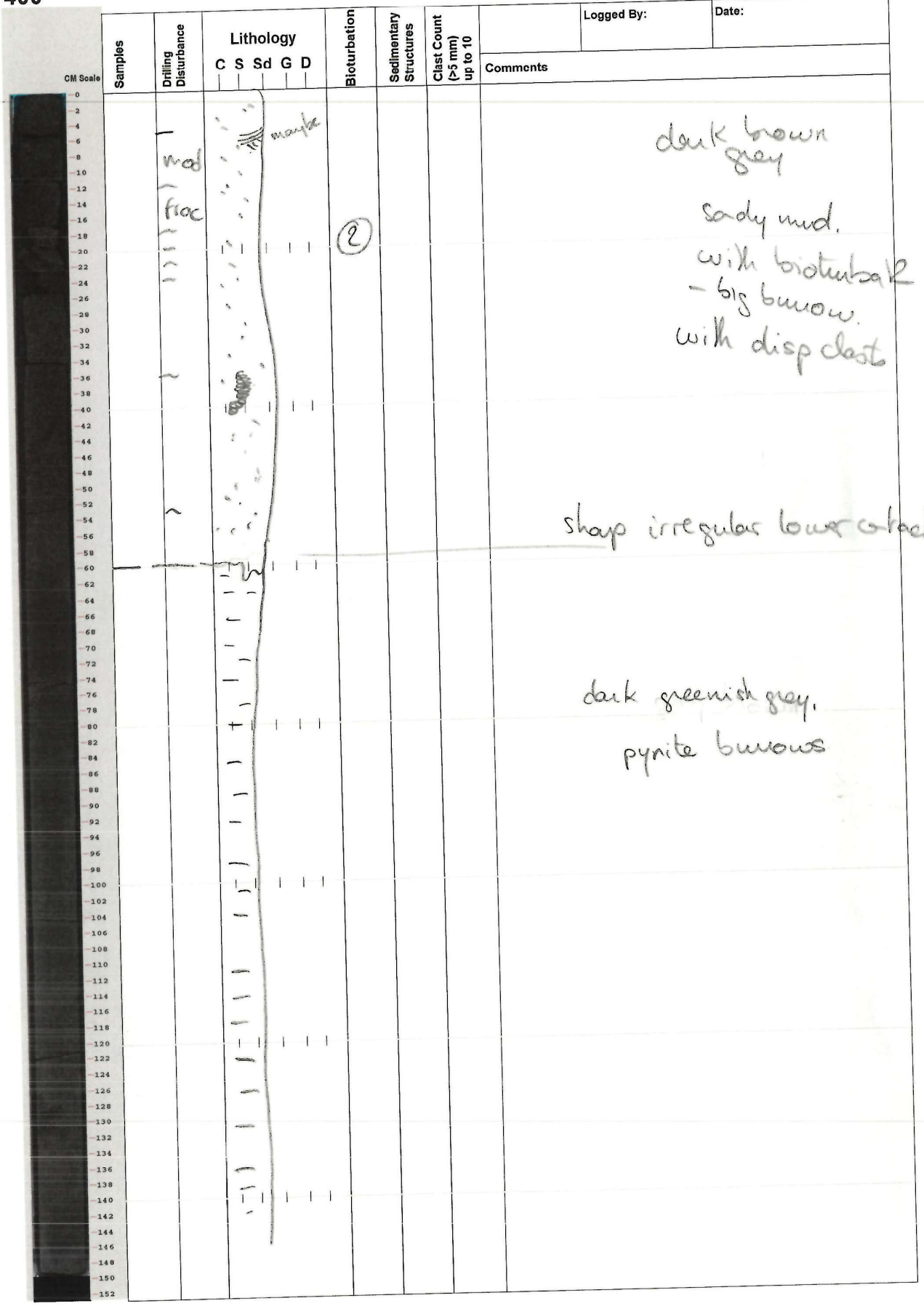
Date: 9/18/2023



400-U1607A-23R-1-A | SHLF12732511

Logged By:

Date:



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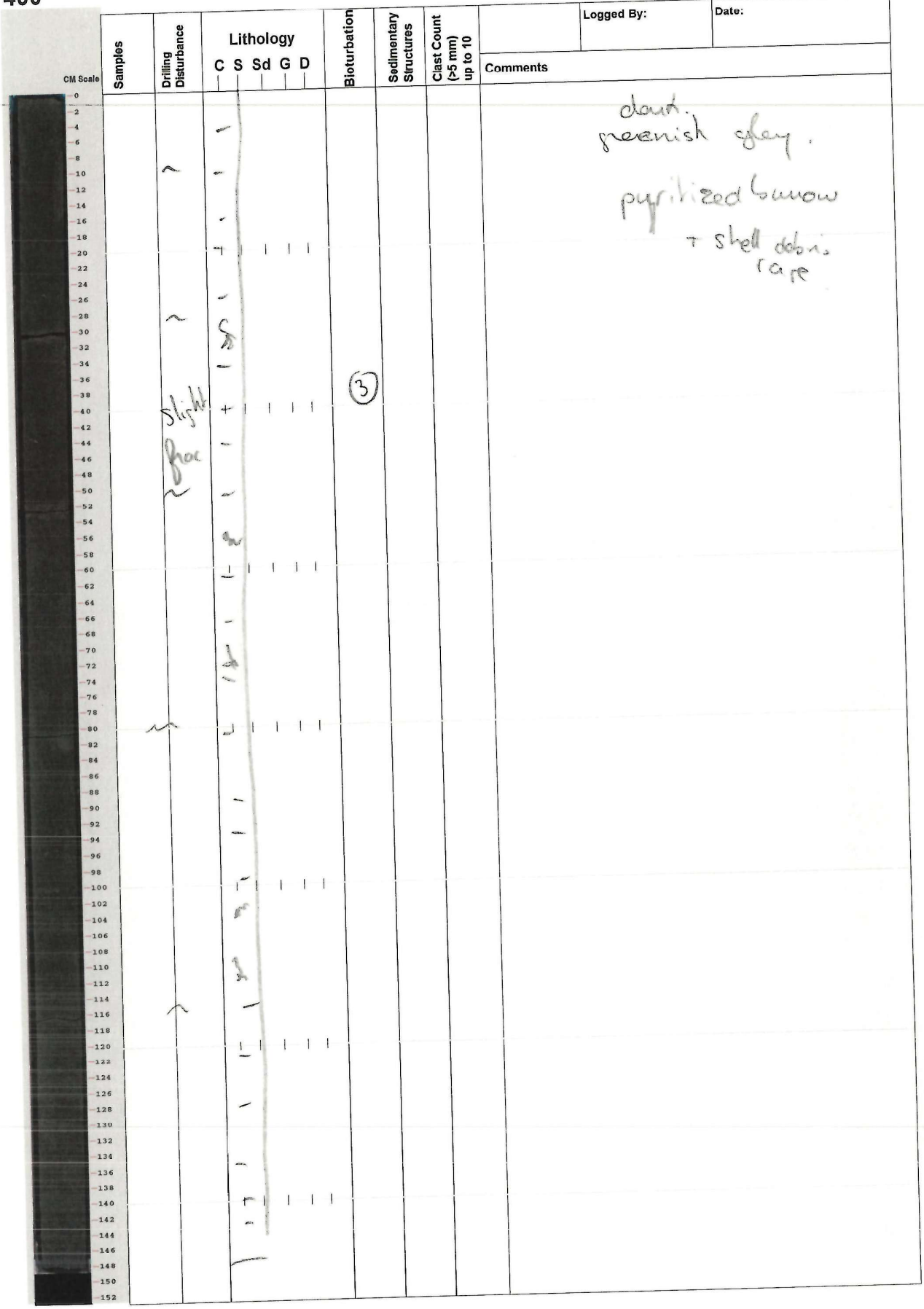
Date:

Comments



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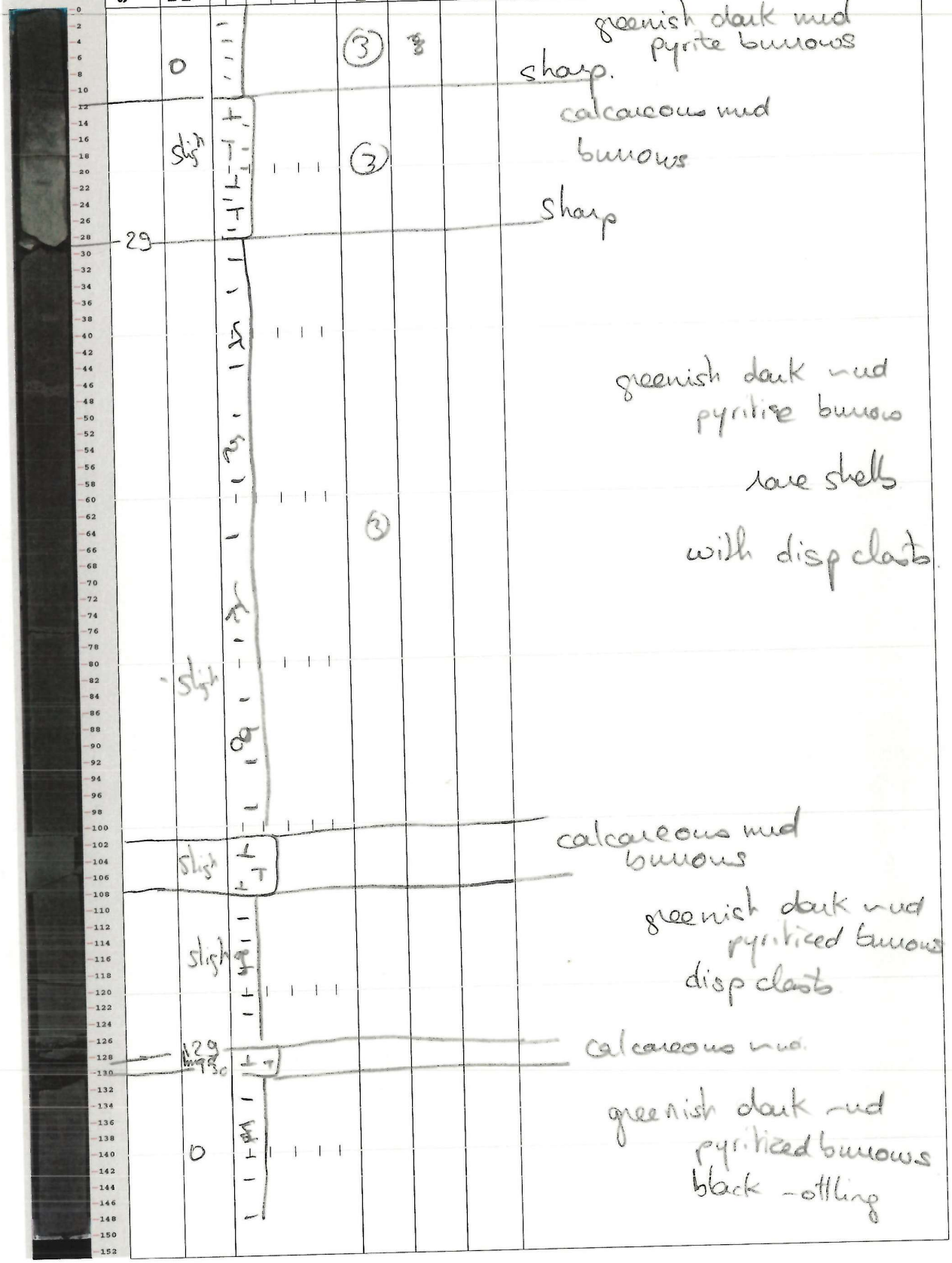


400-U1607A-23R-4-A | SHLF12732601

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	

CM Scale



dark brown grey
dark & pyritized burrows
rare shell fragments

3

dark burrows.

3

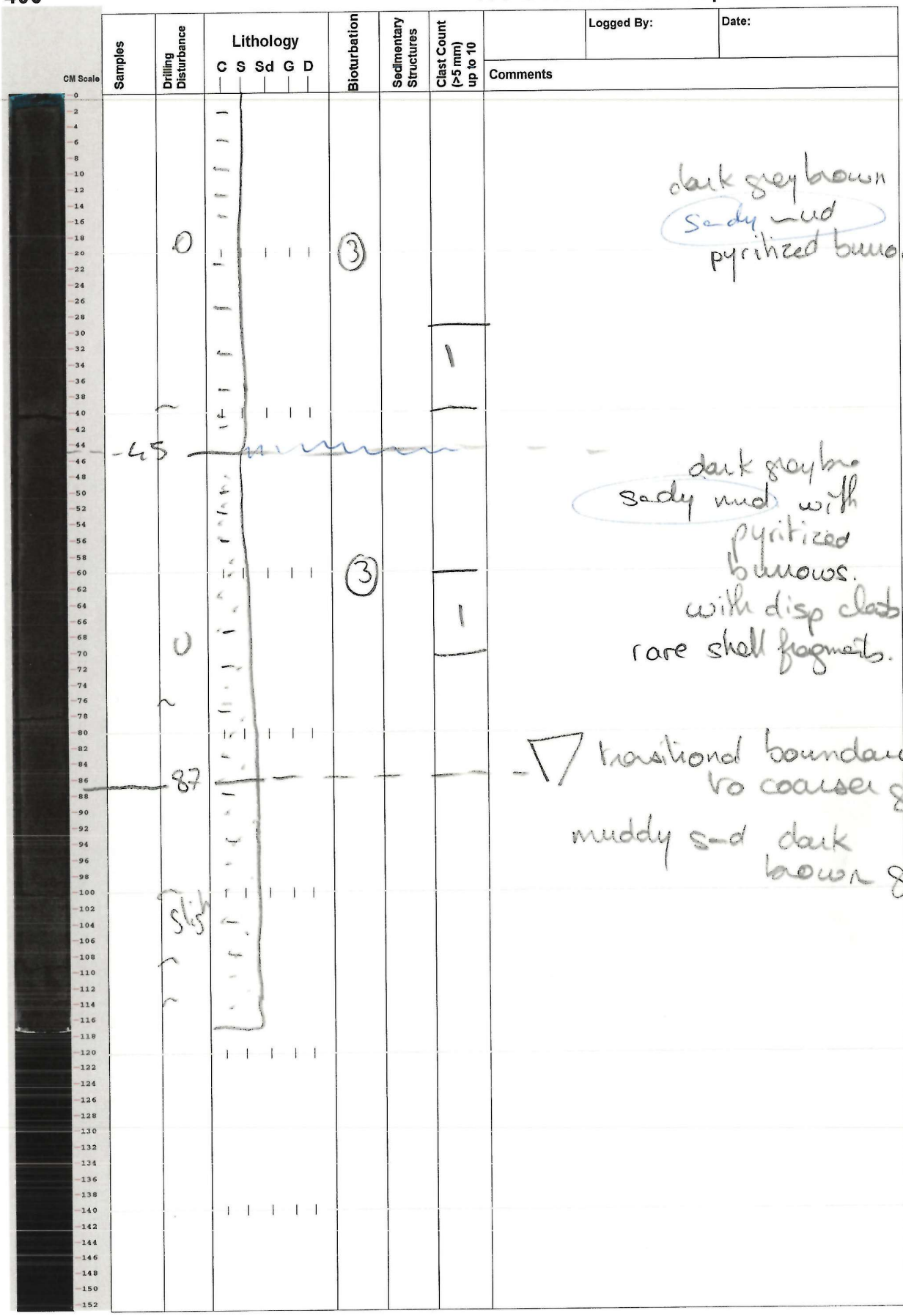
dark & pyritized
burrows

3

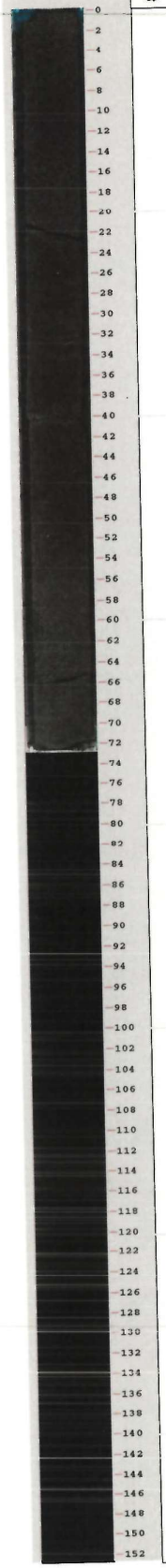
pyritized burrows.

Logged By:

Date:



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	



slight

(2)

s-dy mud dark gray brown burrows

slight

(3)

dark brown gray-mud pyritized burrows rare shell frags with s-d laminae (thin).

Logged By: BR

Date: 9/18/23

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–2				3			Slightly (fractured) disturbance throughout
20							Grey-dark-brown mud w/ sparse grains and clasts
30–40						1	
60							100-end: weakly/diffusely laminated
100				2			
140							big shell in horizontal fracture plane

400-U1607A-24R-2-A | SHLF12732901

Logged By: BR

Date: 9/28/23

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152				3 → 2			Slightly (fractured) disturbed throughout 0–10: mud w/ sand (gray brown) 10–23: sandy mud w/ disrupted laminations 23–end: dark brown muddy sand, stratified (partially disrupted) → concretion (114–117)

400-U1607A-24R-3-A | SHLF12732931

Logged By:	Date:
BR	9/18/23



Samples | Drilling Disturbance | Lithology (C S Sd G D) | Bioturbation | Sedimentary Structures | Clast Count (>5 mm) up to 10

Comments

Slightly fractured / disturbed

0-19 : calcite-cemented interval

19-73 : dark brown muddy sand w/ weak strat. fracture

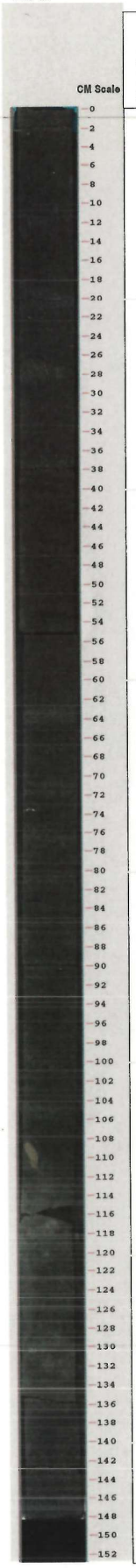
73-end : grey-brown-dark mud w/ sand (and some clasts) w/ weak stratification

burrows are pyrite filled from ~73 cm to end

3

1

400-U1607A-24R-4-A | SHLF12732961



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
	S		3		1

Logged By: BR

Date: 9/18/23

Comments

slightly (fractured) disturbed

0-112: mud w/ sand

Grey-dark-brown

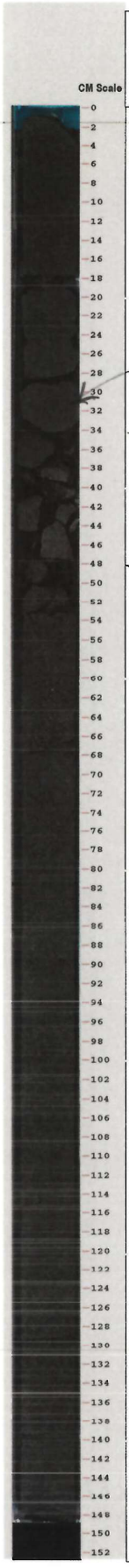
a few dispersed clasts

112-135: bioturbated calcareous mud

(Grey medium)

135-end: bioturbated

grey mud



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10

Logged By: LIves Date: 18 Sep 23

Comments

0-29cm → dk grey laminated mud
sparse, black pinnate, horizontal burrows
some w/ sand wells

29cm
~~34cm~~

biscuited/brecciated dk grey mud

46cm → biscuited dk brown sand

48cm

dk brown muddy sand
↳ sand is well-sorted, vf-f with dk brown mud. Sand grains appear to be quartz + muscovite

↳ granules + bioclasts (shell frag) are dispersed throughout

↳ does not appear bioturbated, but also appears massive. Ugh.
↳ faint hints of both stratification + burrowing

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: L Ives	Date: 18 Sep 23

Comments The contact between this section and 1A is oddly abrupt.

CM Scale



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
	0		2		0
			↓		↓

0- dk greyish brown ~~gry~~ bioturbated mud

→ no black burrows.

→ burrow either pyritized or sediment-filled

@17 cm → sand laminae/bleb?

→ whispy, discontinuous laminations

→ shell fragments + burrows present

@36 cm → sand laminae / bleb? through

→ rare, dispersed granules

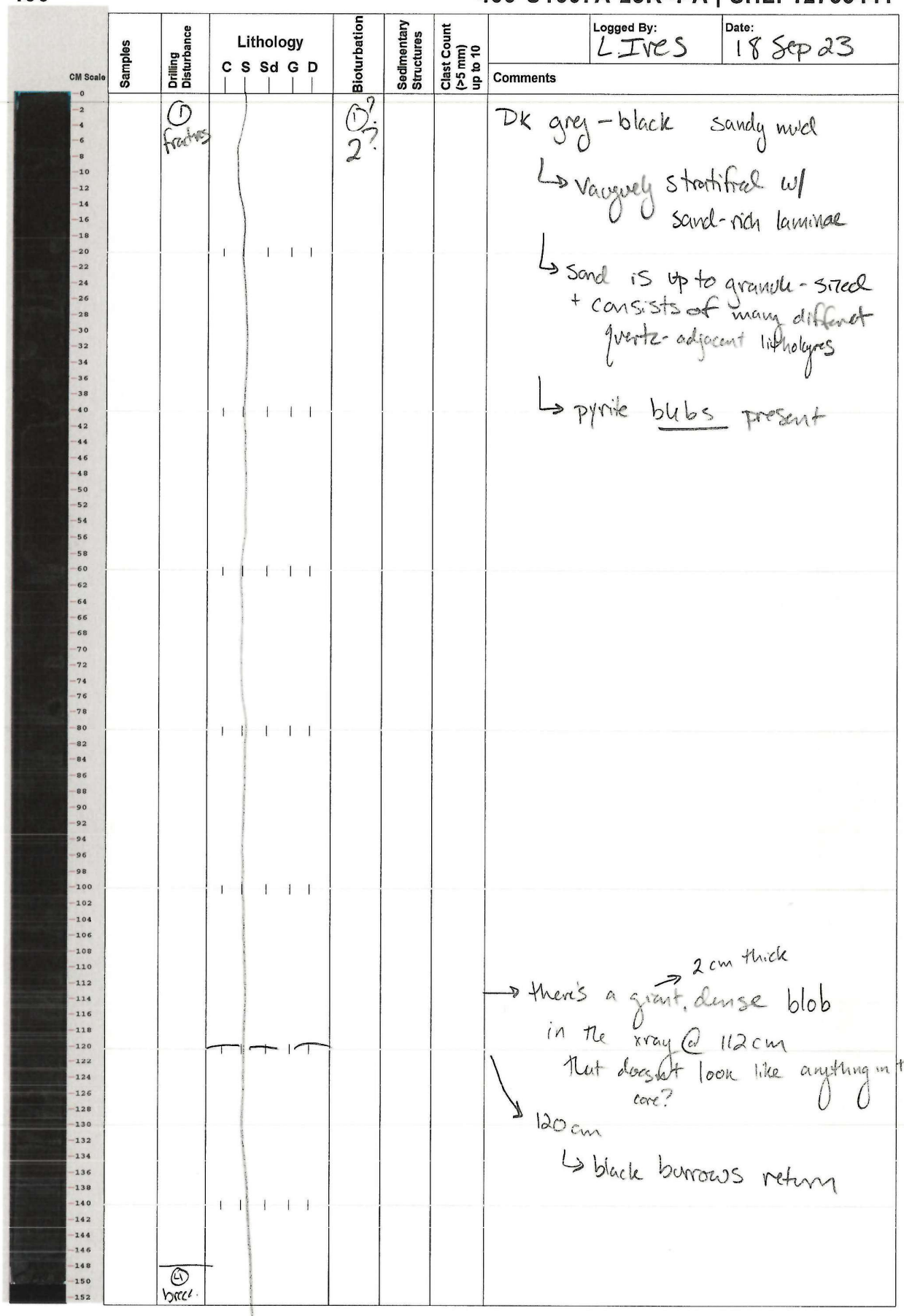
grad 100 cm to greenish gry

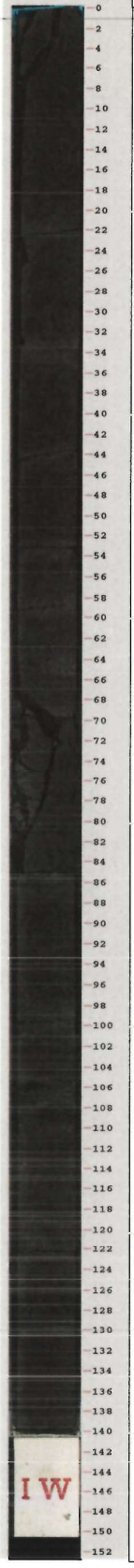
more burrows pyritized

Logged By: L. Ives
Date: 18 Sep 23



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–10		~~fall in~~ brecc. 9cm					dk greenish gry mud w/ sand burrows are pyritized
20–28							@27 ---- gradational/diffuse
28–30		29					
30–40		(3) brecc.					same mud, but carbonate cemented light gry
48–50		47					---- 47 cm contact in breccia
56–58		57					47-end
58–80		(2) fract. odd, ner vertical					Same as above, but the burrows are visible in x-ray? wtf.


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By: LIves
Date: 18 Sep 23
Comments
1 fractures
1? 2?
4 brecc.
Dk grey-black sandy mud
↳ vaguely stratified w/ sand-rich laminae
↳ sand is up to granule-sized + consists of many different quartz-adjacent lithologies
↳ pyrite blebs present
2 cm thick
→ there's a giant, dense blob in the xray @ 112 cm that doesn't look like anything in the core?
120 cm
↳ black burrows return



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
	(2) fracture		(4)		

Logged By: L. Ives

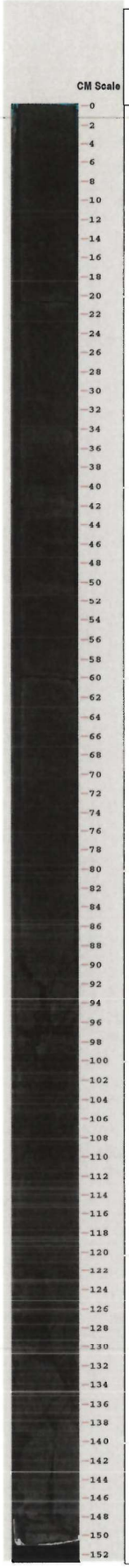
Date: 18 Sep 23

Comments: unusual near-vertical fractures

dk brown w/sand mud bioturbated w/ black-filled burrows

wispy hints of stratification, including sand-rich intervals

some pyrite present in burrows + blebs



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
	① frct.				
	91 ④ breec.				

Logged By: L Ives

Date: 18 Sep 23

Comments "Classic" or Characteristic upper gradational boundary w/ Brown Sand @ 0-52 cm, as above dk brown sandy mud w/ black burrows

- - - grad contact, begin @ 52-84 cm

It's the IL S+M from 2R!! I found it again!

- - - - - abrupt, gradational contact into... the one... the only...

dark. brown. muddy. sand.
it's poorly sorted!
it might be Stratified!
it might be bioturbated!
it probably both!

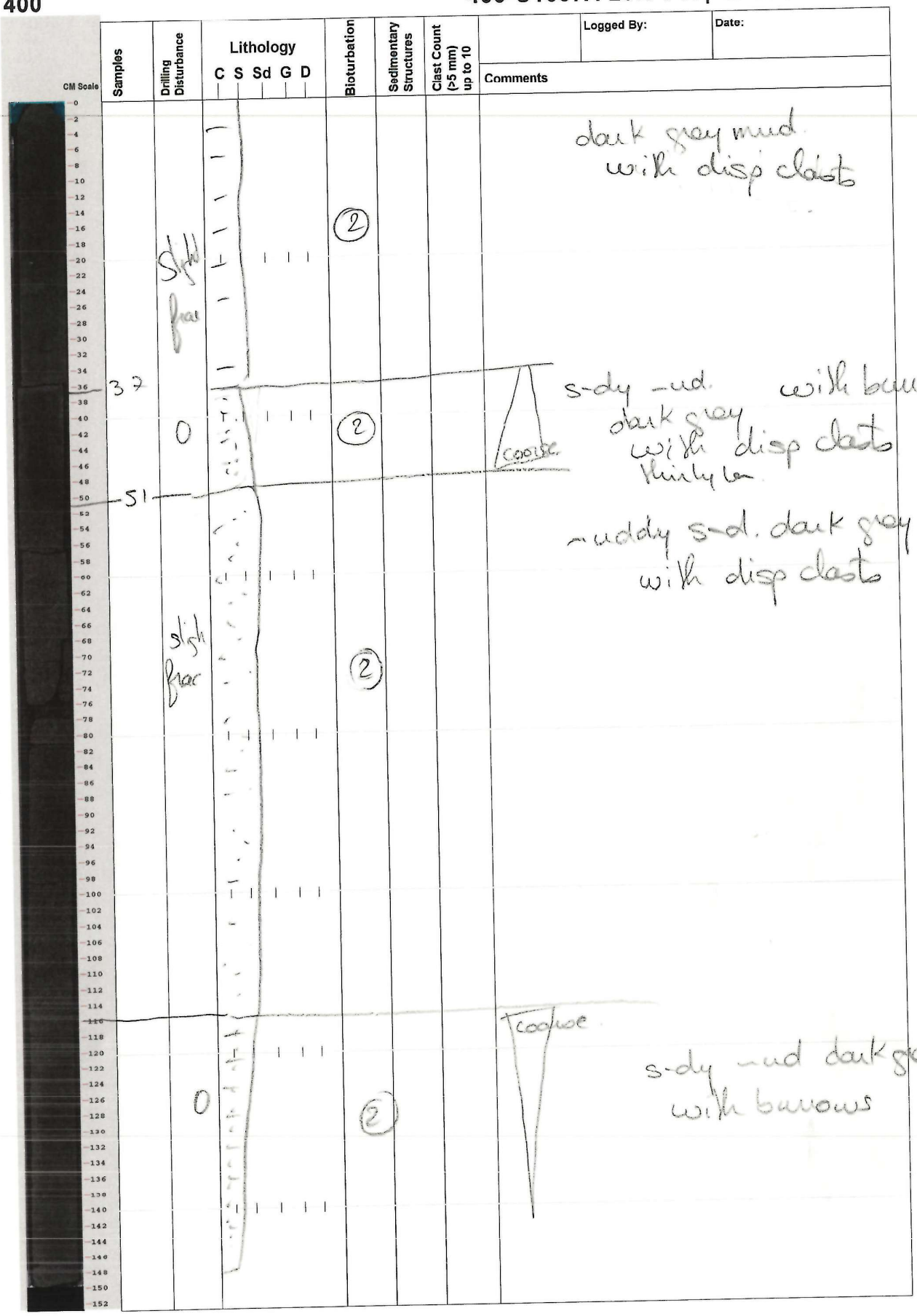
Now let's go to the lower contact to learn more....

Logged By: L. Ives

Date: 18 Sep 23



CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–2		brec.		(3)			0 – 47 cm = sandy mud dk brun.
2–4		(3)					
4–6							
6–8							
8–10							
10–12							
12–14		(0)					subtly stratified
14–16							
16–18							
18–20							
20–22							
22–24							
24–26							
26–28							
28–30							
30–32							
32–34							
34–36							
36–38							
38–40							
40–42							
42–44							
44–46							
46–48							– – – – grad
48–50				(2)			47 – end
50–52							
52–54							
54–56							
56–58							IL S+M facies w/ rare granules from 47 – 50 cm
58–60							
60–62							
62–64							
64–66							
66–68							
68–70							
70–72							
72–74							
74–76							
76–78							
78–80							
80–82							
82–84							
84–86							
86–88							
88–90							
90–92							
92–94							
94–96							
96–98							
98–100							
100–102							
102–104							
104–106							
106–108							
108–110							
110–112							
112–114							
114–116							
116–118							
118–120							
120–122							
122–124							
124–126							
126–128							
128–130							
130–132							
132–134							
134–136							
136–138							
138–140							
140–142							
142–144							
144–146							
146–148							
148–150							
150–152							



Logged By:

Date:

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–36		Slight frac		2			dark grey mud with disp clasts
36–51	37	0		2			coarse; s-dy -ud. with burrow dark grey with disp clasts thinly la
51–116	51	slight frac		2			-uddy s-d. dark grey with disp clasts
116–152		0		2			coarse; s-dy -ud dark grey with burrows



CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–16							dark grey sandy mud. thinly lam.
16–18	17	Mod fra					17 cm bivalve shell : horizontale highly recristalized 3cm long
18–38				2			
38–66	39						39 cm bivalve shell : horizontal highly recristalise 2cm long.
38–66				3			47 cm → benthique foram 50 cm → same foram 105,5 → same foram.
66–74	68			2			cemented mud calcareous
74–152		Sligh fra		3			Sandy mud thinly lam dark grey 2cm long shells at 79 cm & 85 cm / not life position recristalized. + burrows

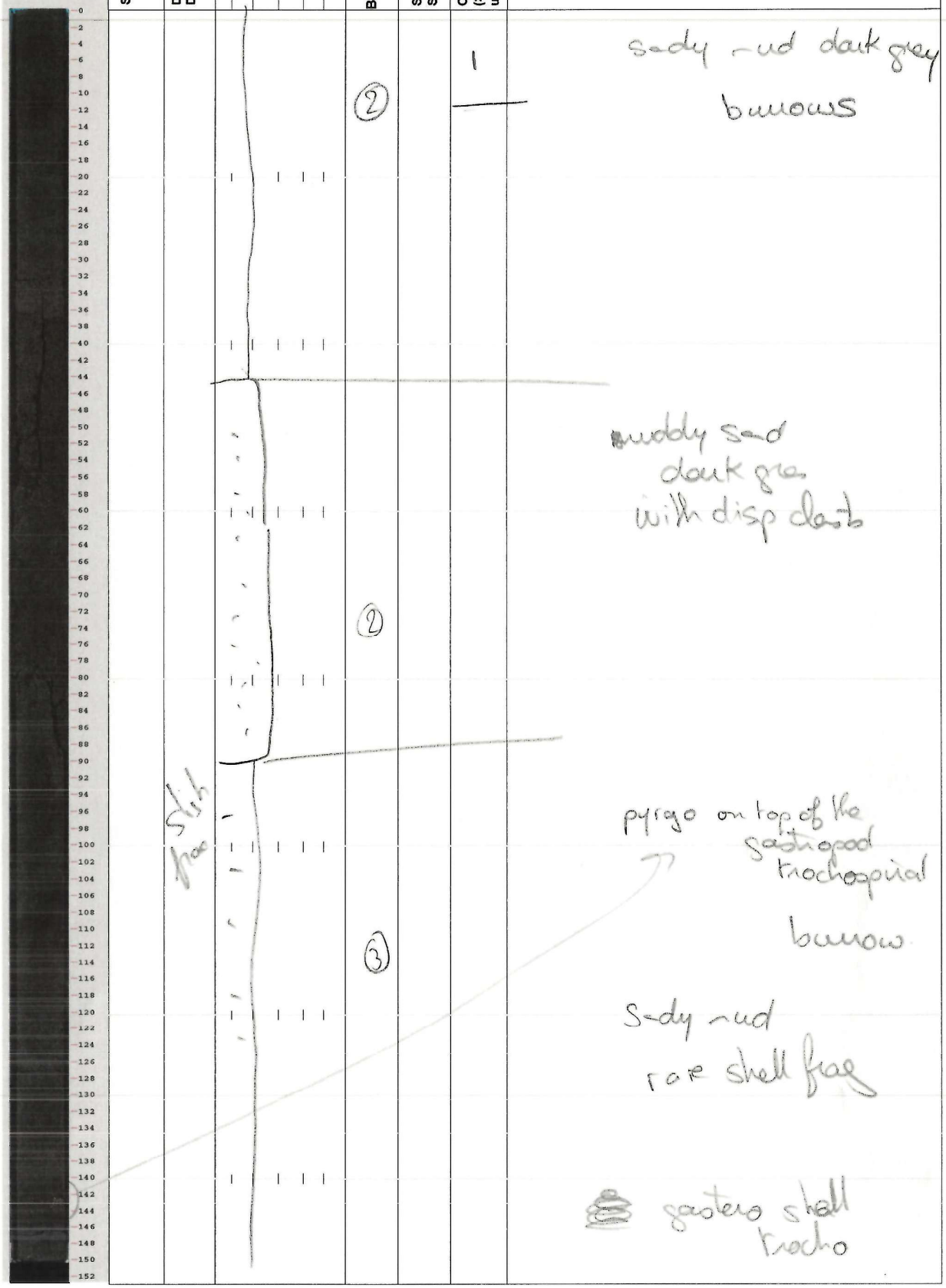


CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20		slight frac		(3)			dark grey-ud with burrows piritized + shell fragments
48–50							→ 49 cm : sle 3 cm long. 57-58 : entire bivalve recristallized.
60–80				(3)		1	muddy sand gradational coarser with disp clasts.
100–120					1		→ 2 cm long shell big burrows

Logged By:

Date:

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



Logged By:

Date:

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152		Slight frac		3	1		→ 5 – 2 shells 2 valves recrystalized Sandy mud dark grey with disp clasts finely b burrows → 30 – 2 valves cracked 30 → dislocated bivalve.

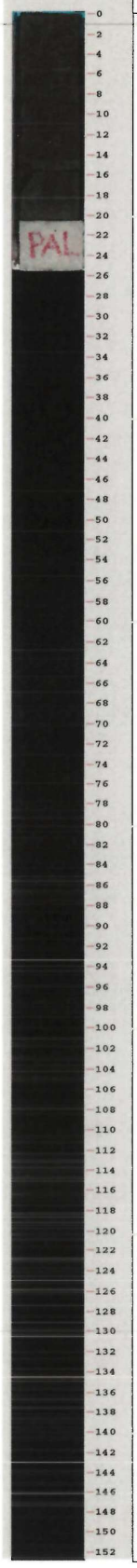
IW



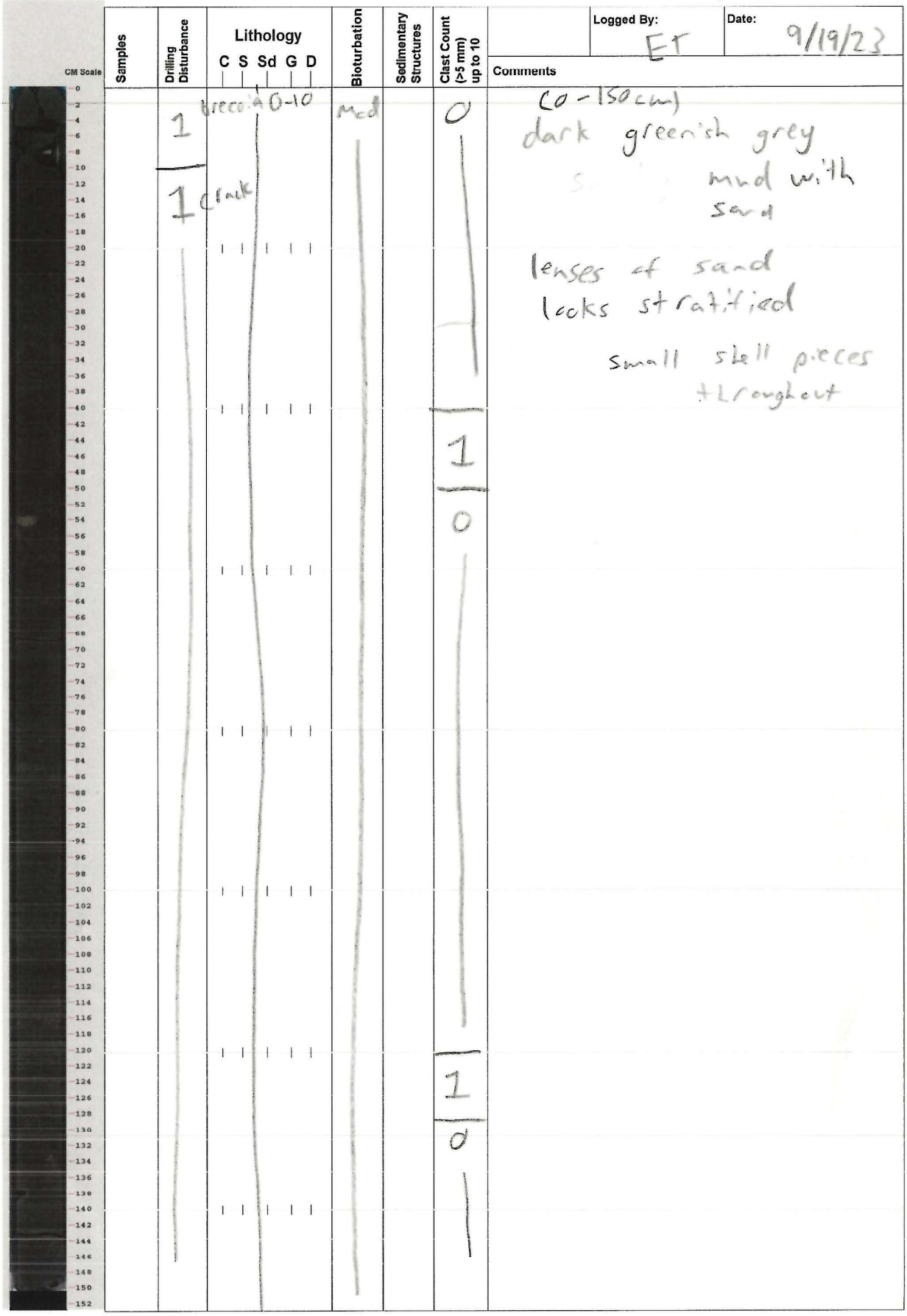
CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–14		slight		(3)			calcareous cemented mud light grey.
14–102				(3)			dark grey mud. thinly lam. burrows
102–104	103	slight frac					
104–120		mod frac		(2)			mud dark grey

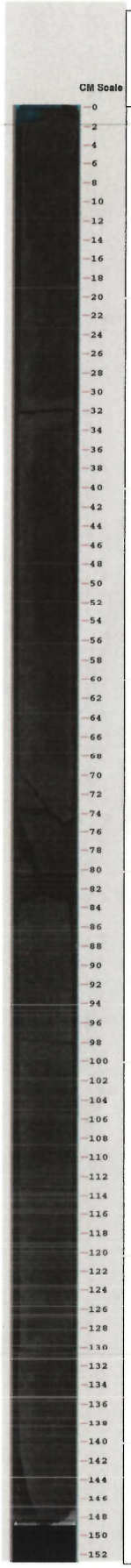
Logged By:

Date:



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: L. Ives	Date: 18 Sep 23
	(1)		(3)			Comments: DK brown muddy sand w/ granules	
	frac.						


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
ET
Date:
9/19/23
Comments
1
1
breccia
chalk
0-10
mod
0
1
0
1
0
(0-150 cm)
dark greenish grey
mud with
sand
lenses of sand
looks stratified
small shell pieces
throughout



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: ET	Date: 9/19/23
	1 crack		mod		0	Comments	
	1 breccia		uncomm			(0-68cm) same as above (68cm - 88cm) dark brownish grey Sandy mud (88cm - 150cm) dark greenish grey mud w/ sand w/ sand leases small shells (76-84cm) breccia	
	1 crack						

Logged By: ET

Date: 9/19/22

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152		1		mod; uncomm; mod		0	same as above (0–23cm) (23cm–95cm) dark brownish grey sandy mud (95–150cm) dark greenish grey mud w/ sand w/ small shells 1M/cm

Logged By: ET

Date: 9/19/23

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152		1		Heavy		0	(0–13cm) same as above (13cm–134cm) sandy mud dark brownish grey

IW

Logged By: ET

Date: 9/19/13

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152				mod		1	(0-15cm) same as above
							(15cm - 136cm) dark greenish grey mud with sand and shell fragments/ sand lenses
						1	
							(116-118cm) diagenesis: pyritized burrows



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: ET	Date: 9/19/23
						Comments	

1

mod

0

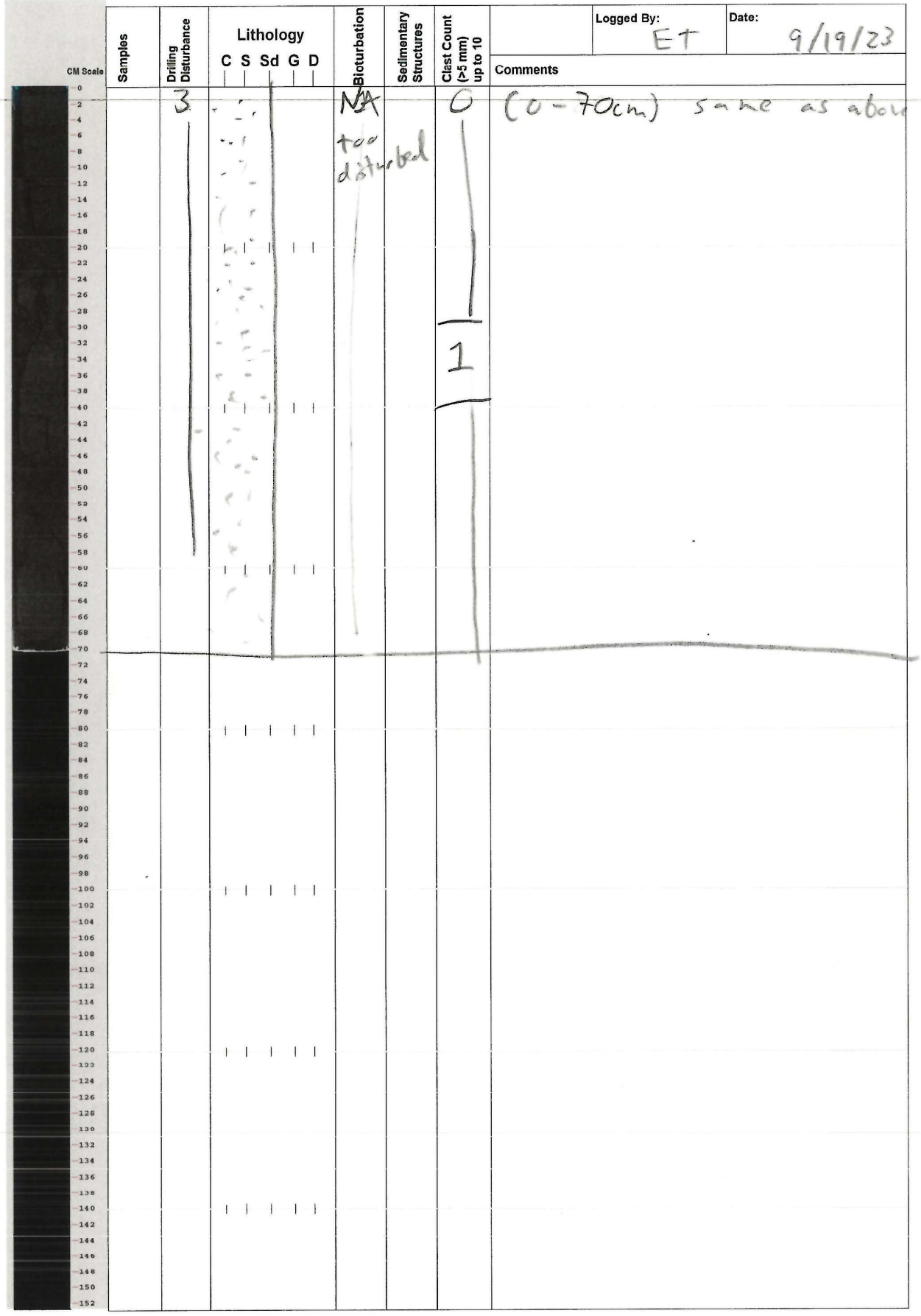
(0 – 133cm)
same as above
0-10cm → lithified rock w/ possible burrows after hardening

(30-35cm)
diagenesis some pyritized burrows

(133-150cm)
Sandy mud
dark brownish grey

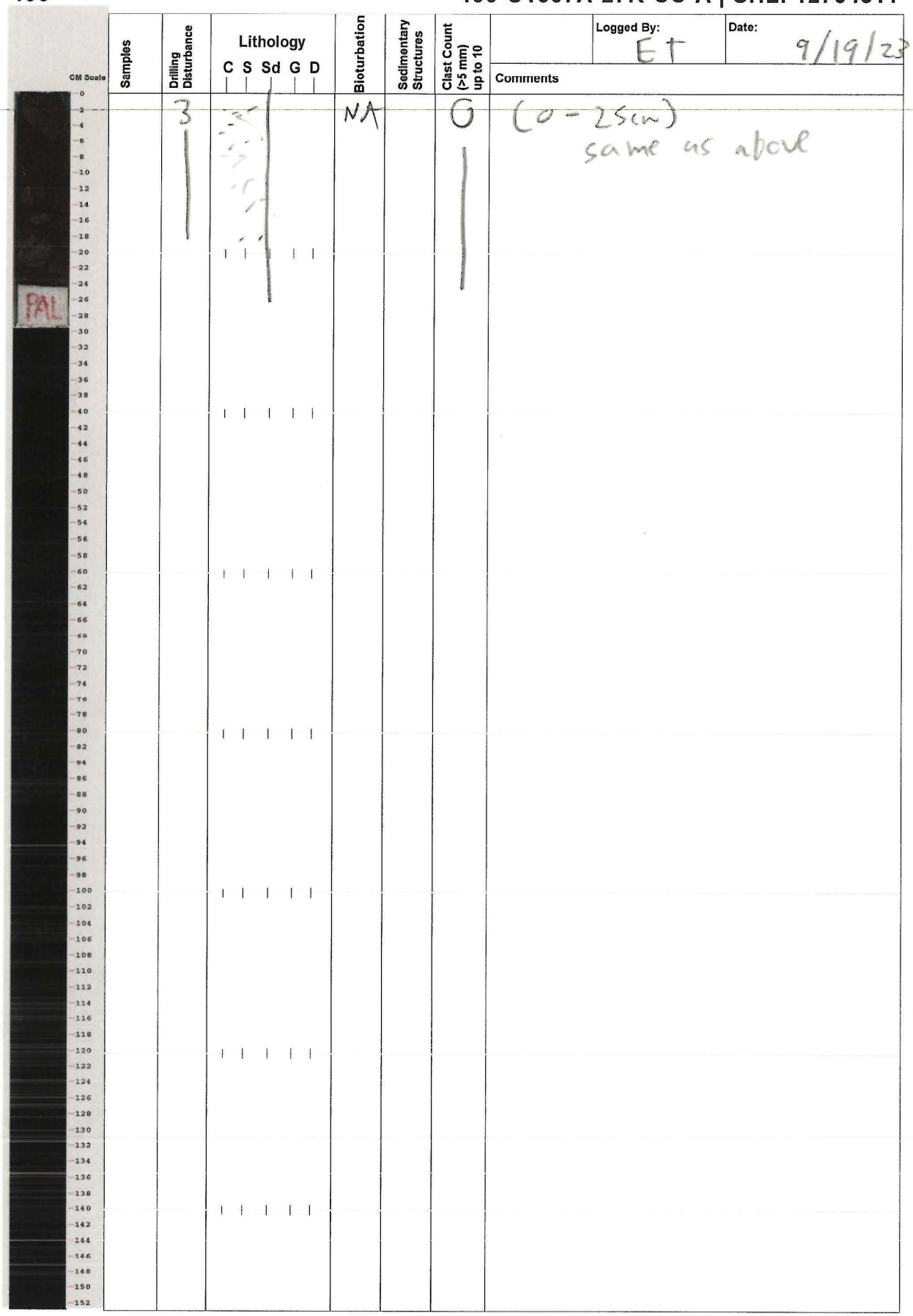
1 → 6cm

extrusive
possibly igneous?


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
ET
Date:
9/19/23
Comments
3
NA
too disturbed
0
(0-70cm) same as above
1

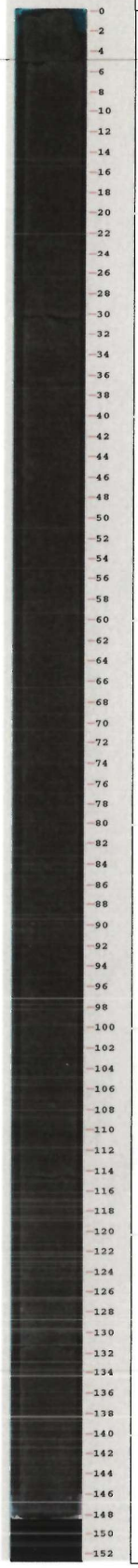
400

400-U1607A-27R-CC-A | SHLF12734511



Logged By: GG

Date: 19 Sep.



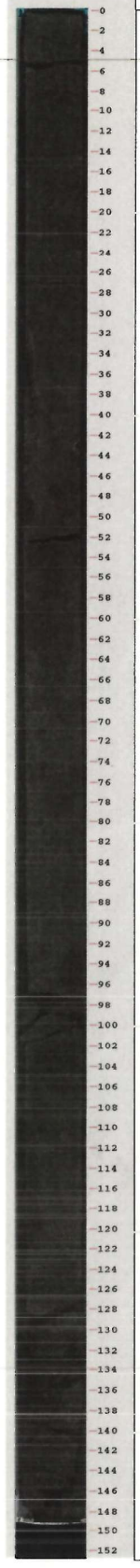
Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
	0					0-116 mud, dark grey.
			2			weakly stratified
						faint laminae
						w dispersed clasts 2mm - v fe gravel
			2			
			2		1	
			2		1	sand blebs
						116 - base
			3		2	med grey w sand w common clasts.
					2	

Logged By: GG

Date: 19 Sep



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20		0			2		Mud to sand
20–40					3		Int. coarse sand beds 1cm
40–60				3	2		articulate bivalves.
60–80					4		Bioturb
80–100				3			Pyratised burrows.
100–120				3			
120–140							Scour beds



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: CG	Date: 19 Sep
						Comments	

0-base Mud &
Sand
as above

3

3

3

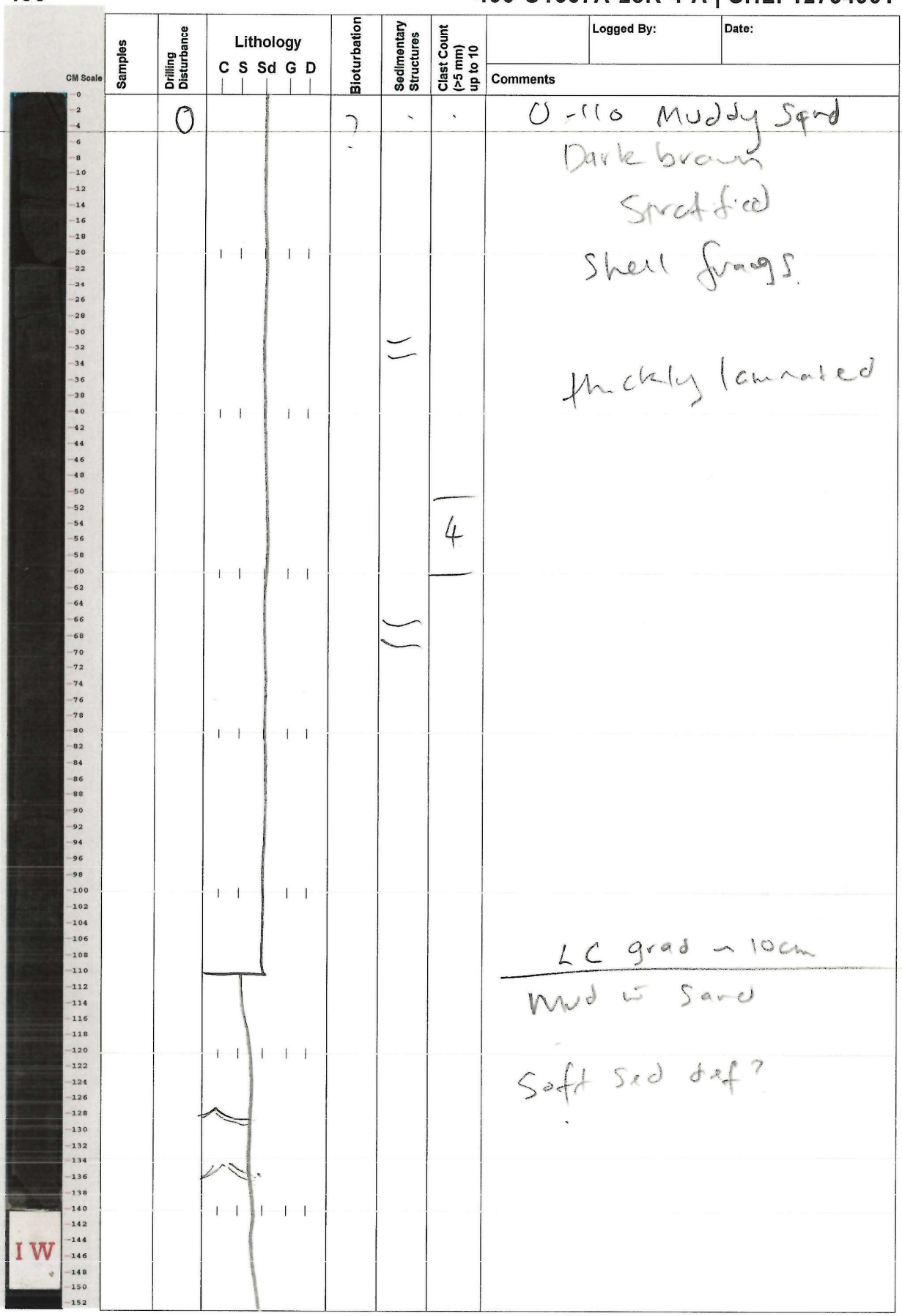
Fault

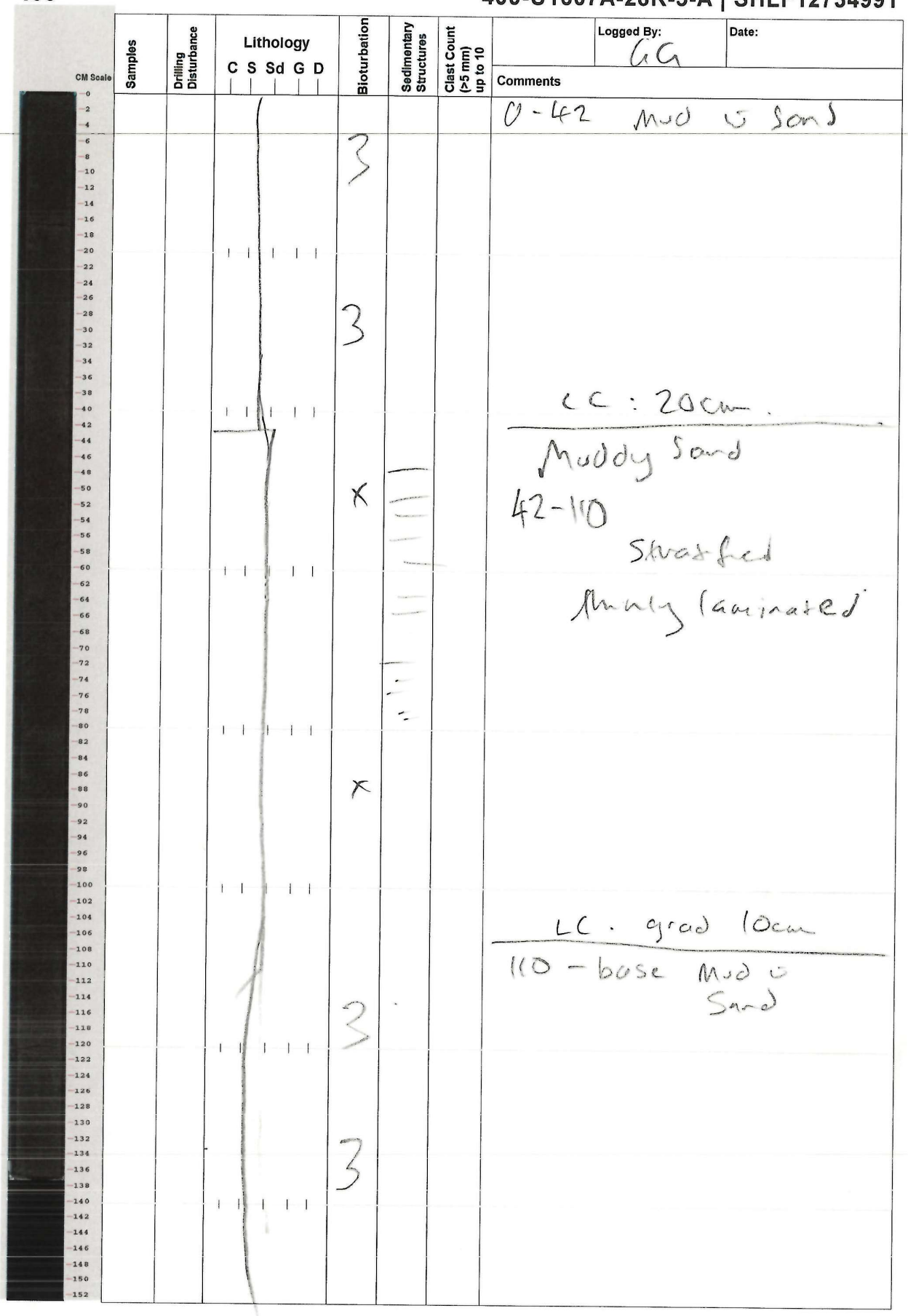
LC: grad 20cm

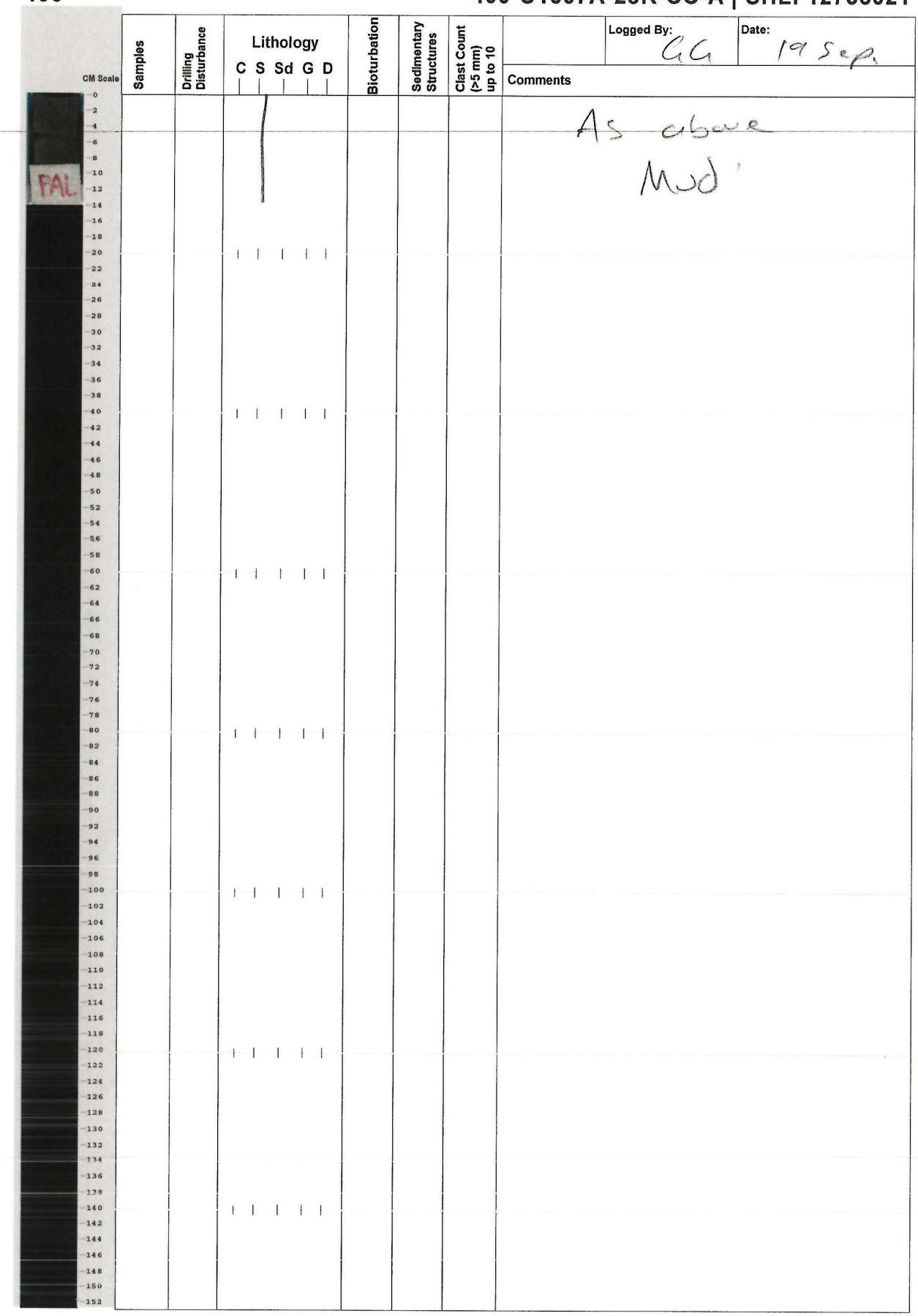
110 – base
Stratified dark
brown sands

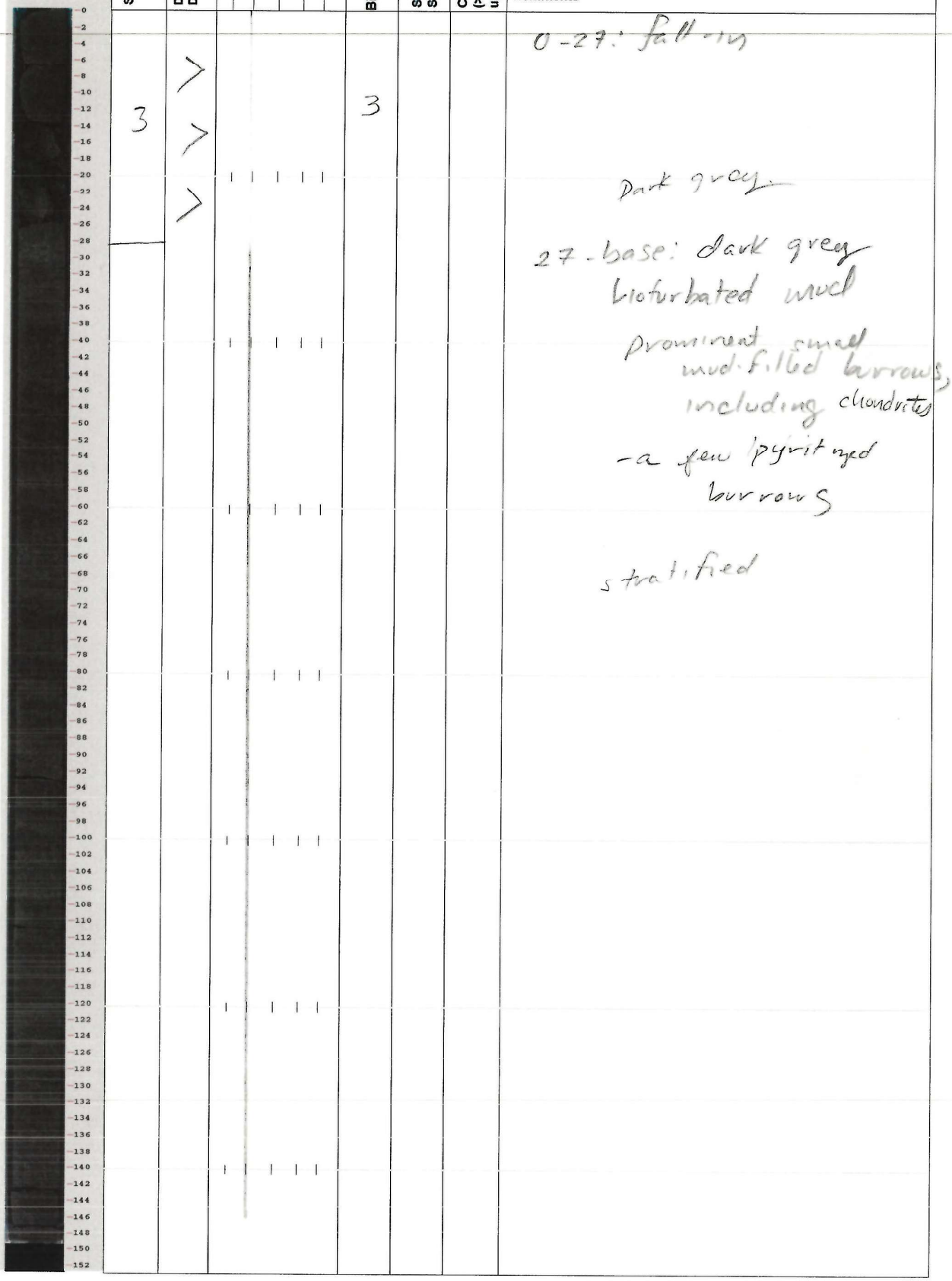
0

3


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Date:
Comments
0
?
4
0-110 Muddy Sand
Dark brown
Stratified
Shell frags.
thickly laminated
LC grad ~ 10cm
Mud w Sand
Soft Sed def?
IW


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
GG
Date:
Comments
0-42 Mud & Sand
3
3
cc: 20cm.
Muddy Sand
42-110
Stratified
Thinly laminated
X
X
3
3
LC. grad 10cm
110 - base Mud & Sand


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By: GG
Date: 19 Sep.
Comments
As above
Mud
PAL


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Date:
Comments
3
3
0-27: fall-in
Dark grey
27-base: dark grey bioturbated mud
Prominent small mud-filled burrows, including chondrites
-a few 'pyritized burrows
stratified

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	

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

0-77: bioturbated mud as in prev. section

3

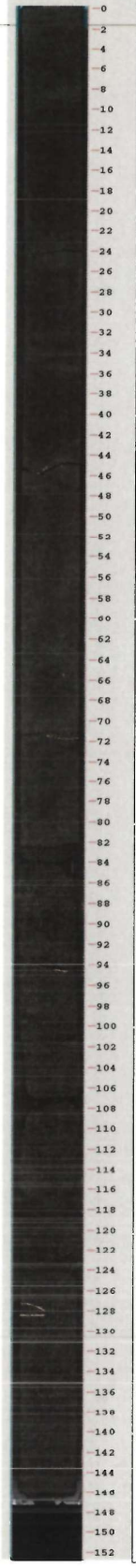
77- base

2

bioturb mud w/ fossils

large shells at 96, 129, 134 cm

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	



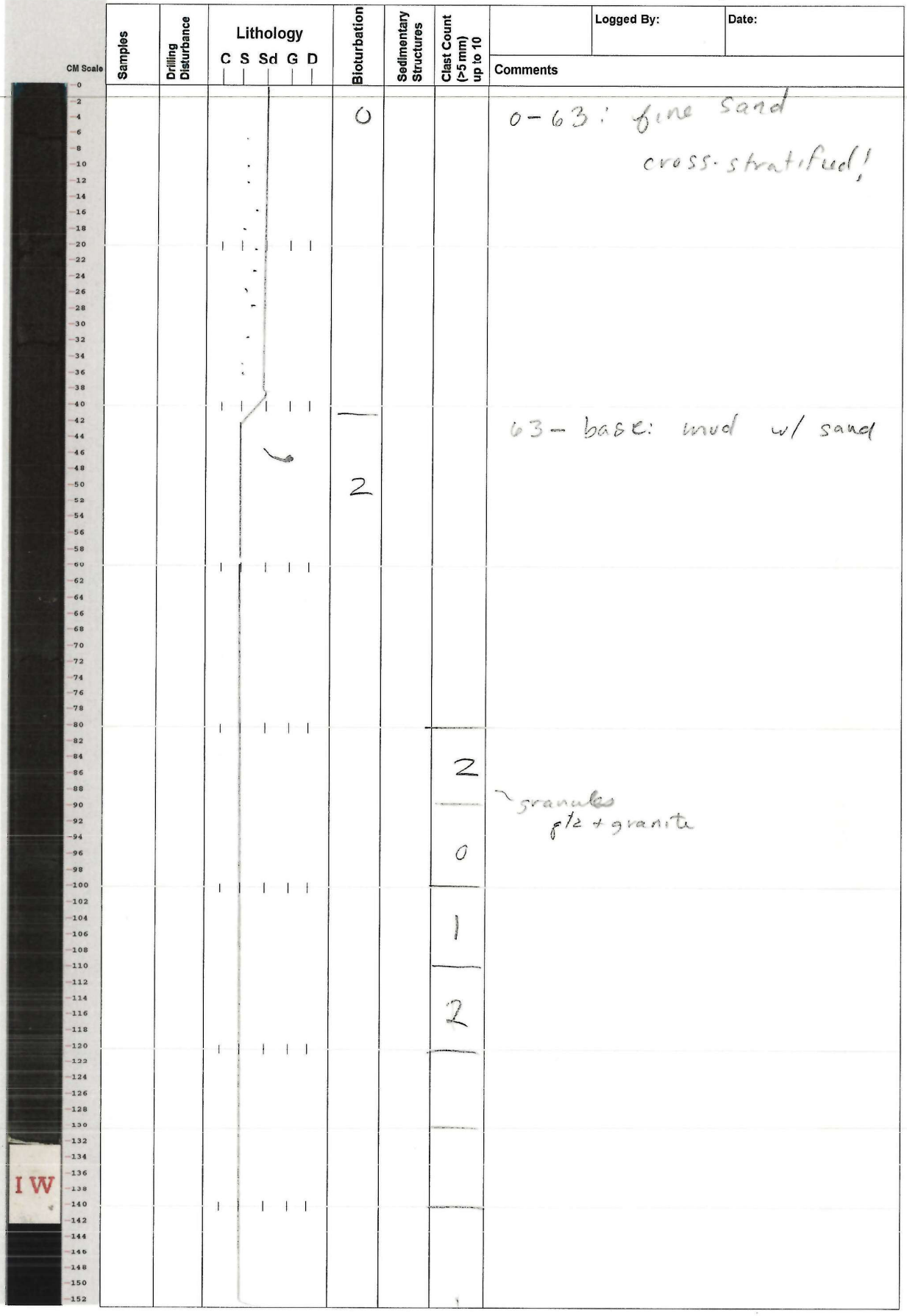
0-60: as in prev. section

2

60-84: interlam sand + mud w/ large fossils shells

84-base dk brown-gray fine sand w/ large shells laminated to cross-strat (at 140-base)

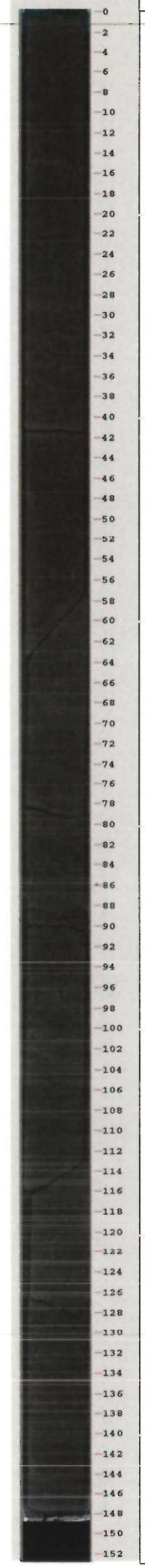
fossils are in-situ valves intact



0-63: fine sand
cross-stratified!

63- base: mud w/ sand

granules
f/z + granite



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	

0- base dark grey bioturb mud w/ forams

2

some pyritization of forams + bivalves

1

3

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



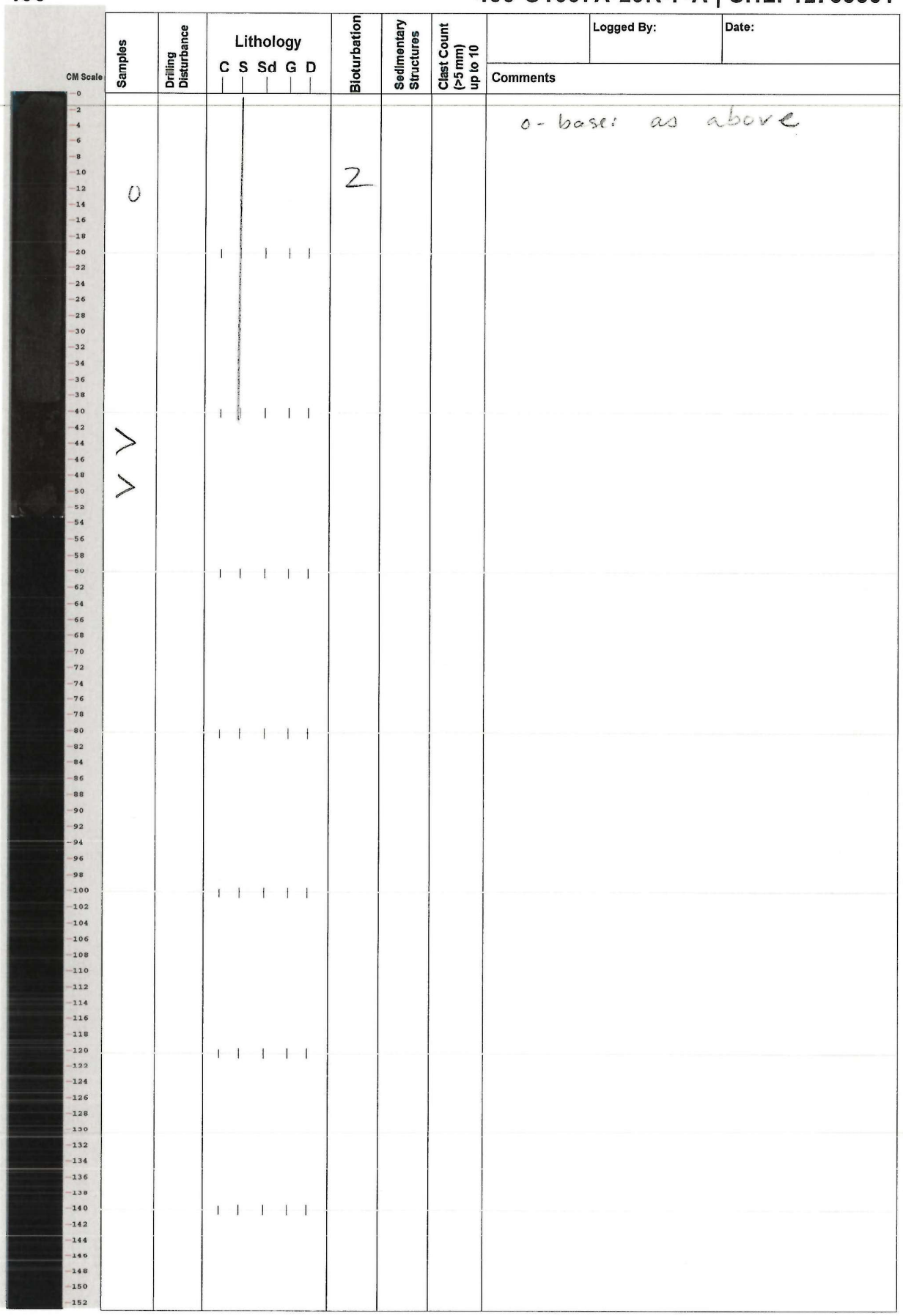
3

0 – base same as above

3

12-24 cemented interval

2


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Date:
Comments
0 - base as above
0
2
> >
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
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60
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64
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82
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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

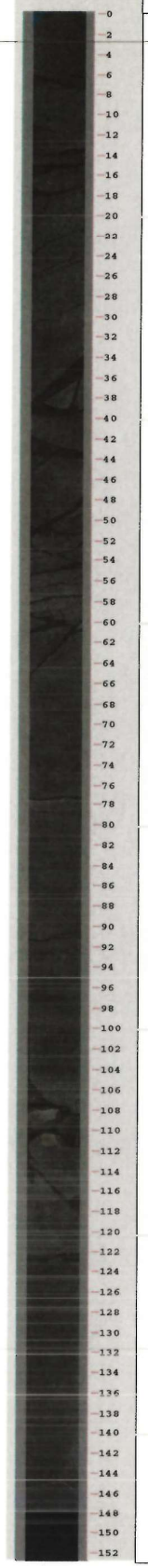
CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
							Comments	

PAL

as above

?

Logged By: GG
Date: Sep 19.



CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20		X				0	0 - 35 Muddy Sand Dark brown w shell frags <5mm Stratified
20–40		X					
40–60		X					40 - 34 Fault 45 LC: Sharp planar 35 - base Mud
60–80							mod bioturbated burrows.
80–100				3			
100–120				3			Concreted - Creamy white
120–140				3			
140–152							

Logged By: GG

Date: Sep 19

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–82		0		3		0	0-82 mud w/ cs sand 1cm beds. upper 20cm creamy white burrows.
80							LC: grad – ~2cm
82–100							82-base brown dark muddy sand. Stratified thinly bedded
100–120		x DDD					

Logged By: GG

Date: 19 Sep

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152							0-80 muddy sand DK. brown Weakly stratified
20–40						1 1	felsic plutonic clast
60–80						5	LC: gravel
80–100				3			80-base mud, grey brown bioturbated
120–140				3			140 - base muddy sand dk brown.

Logged By: GG

Date: 19 Sep

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20				0			Muddy Sand Dk brown Stratified
40–60				0			LC: grad 60 - base Mud w/ dispersed clast mod. bioturbated
60–80				3		2	
80–100				3		5	
100–120			30			6	30° 90° plane



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
			3			0-60. Mud w Sand Grey med w coarse sand laminae mod. bioturbata
			3		2	
					3	
			7			60-base muddy sand dk brown

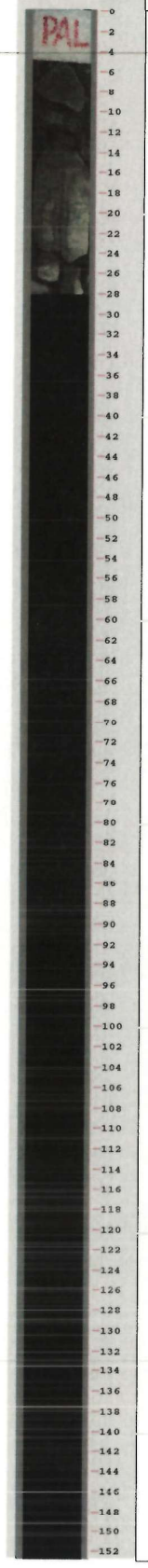
Logged By: GG

Date: 19 Sep

400-U1607A-30R-6-A | SHLF12736041



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
						Logged By: GG; Date: 19 Sep
			3	X		0 - base Mud light grey
						Mod. bioturbated
				.5		backfilled pyritised burrows.
			3			
						Creamy
			3			$CaCO_3$ concretion.
	Σ					



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: GG	Date: 19 Sep
						Comments: MUD	

Logged By: Sandra

Date: 9/19/2023



Comments

0-93cm: Very dark grey muddy fine sand w/ dispersed coarse sand grains, crudely stratified

0-15cm: strongly fractured

93cm: very gradational contact to fine sandy mud and mud

oriented high angle fractures throughout

isolated mm-scale burrows

possible foraminifera

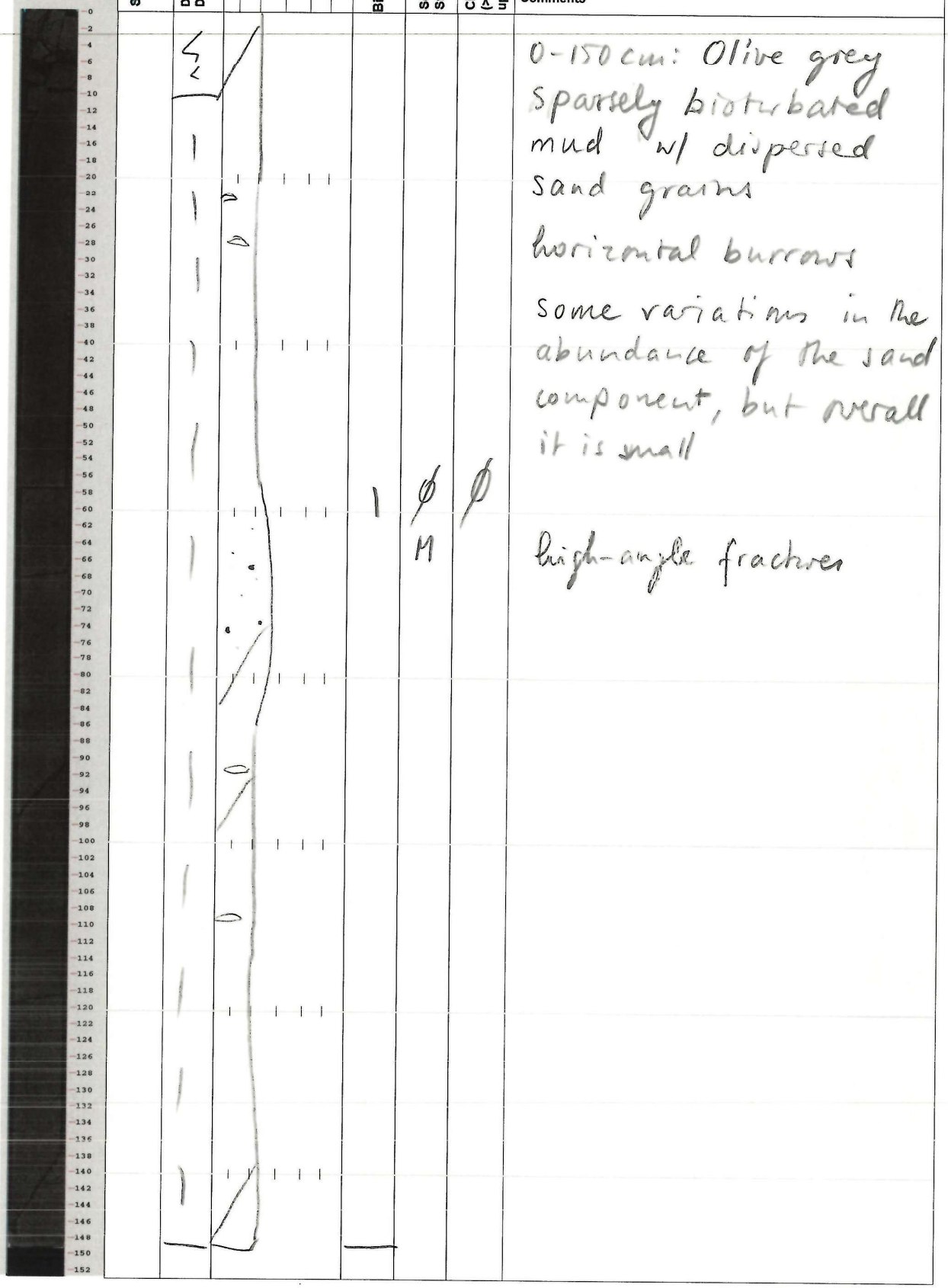
93-118cm: Olive grey moderately bioturbated mud, horizontal burrow structures, dispersed coarse sand grains

118-146cm: Olive grey sparsely bioturbated mud w/ dispersed clasts (1 small pebble ~130cm)

137-136cm: parallel laminations

Logged By: Sandra

Date: 9/19/2023



Comments

0-150 cm: Olive grey sparsely bioturbated mud w/ dispersed sand grains

horizontal burrows

Some variations in the abundance of the sand component, but overall it is small

high-angle fractures

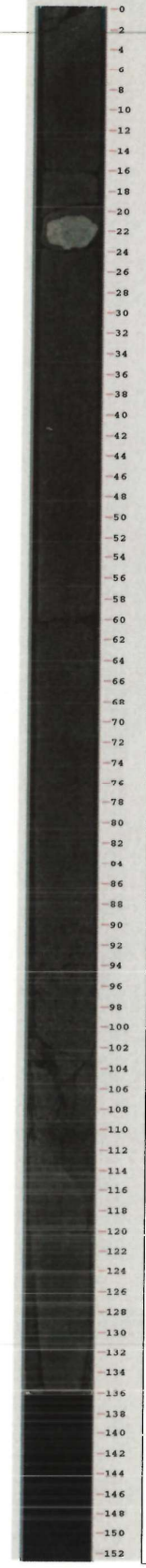
Logged By: Sandra

Date: 9/19/2023

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152					II		0-139 cm: Same as S2. pyritized burrows at 79–86 cm, 126–138 cm very thin shell fragments at 74 cm, 82–83 cm high-angle fractures, oriented 80-86 cm: pyritized burrows 89-90 cm: coarse sand and granule concentration (poorly sorted) 133-139 cm: calcite cement pyritized burrows

IW

400-U1607A-31R-4-A | SHLF12736491



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
			1	M	1
			3		

Logged By: Sandra

Date: 9/19/2023

Comments

0-117 cm: Dark grey mud, massive, w/ dispersed clasts 36-118 cm

rare shell fragment at 2-3 cm

20-24 cm: calcite-cemented nodule?

98-103 cm: pyrite

110-117 cm: fault gauge?

110-117 cm: inclined sharp contact

117-137 cm: Very dark greenish grey moderately bioturbated mud

132 cm: pyritized burrow

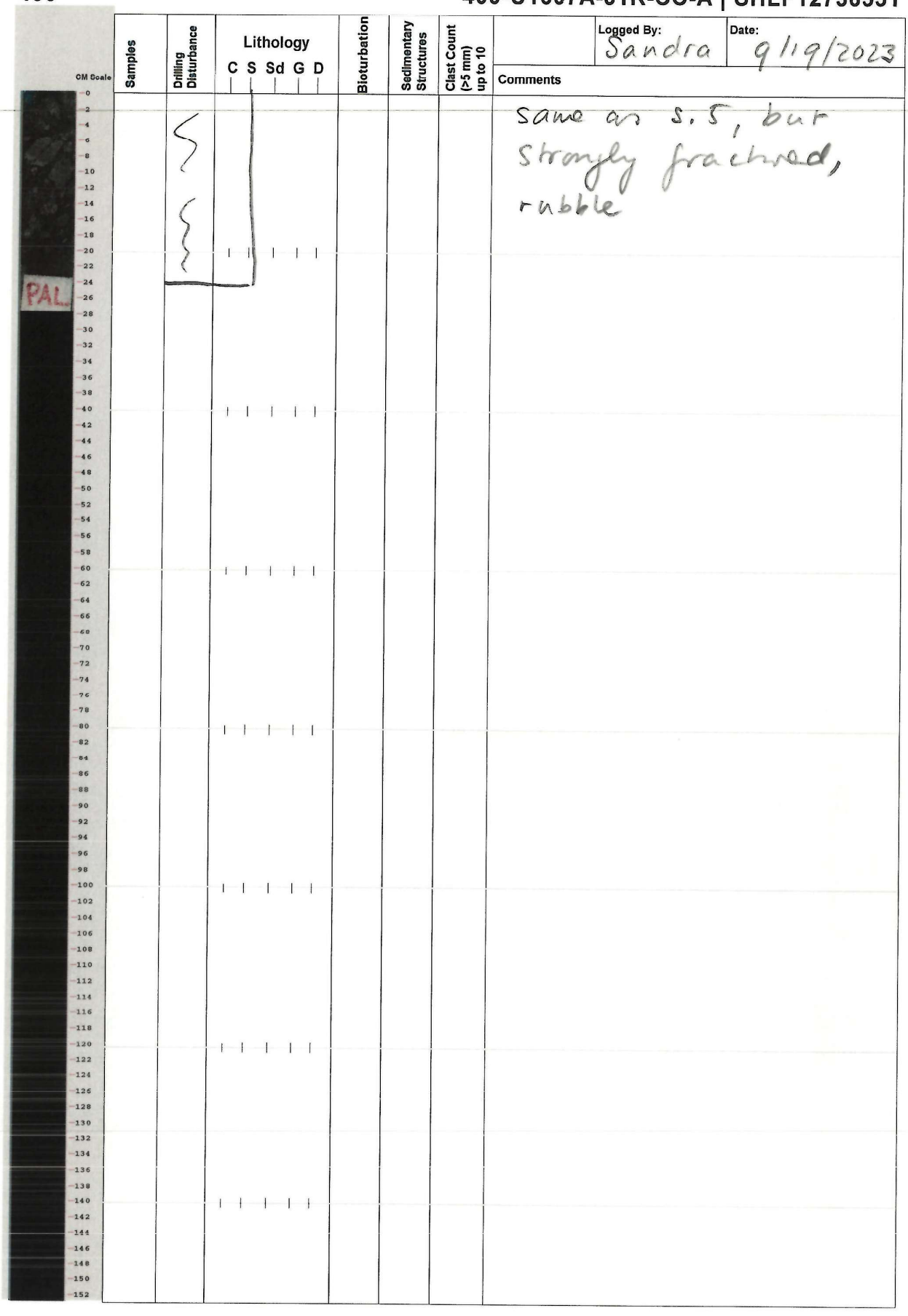
Logged By: Sandra

Date: 9/19/2023

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–54							0-54cm: Very dark greenish grey commonly bioturbated mud
20–52				4		∅	Pyritized burrows mm-scale burrows possible shell fragments, foraminifera?

400

400-U1607A-31R-CC-A | SHLF12736551

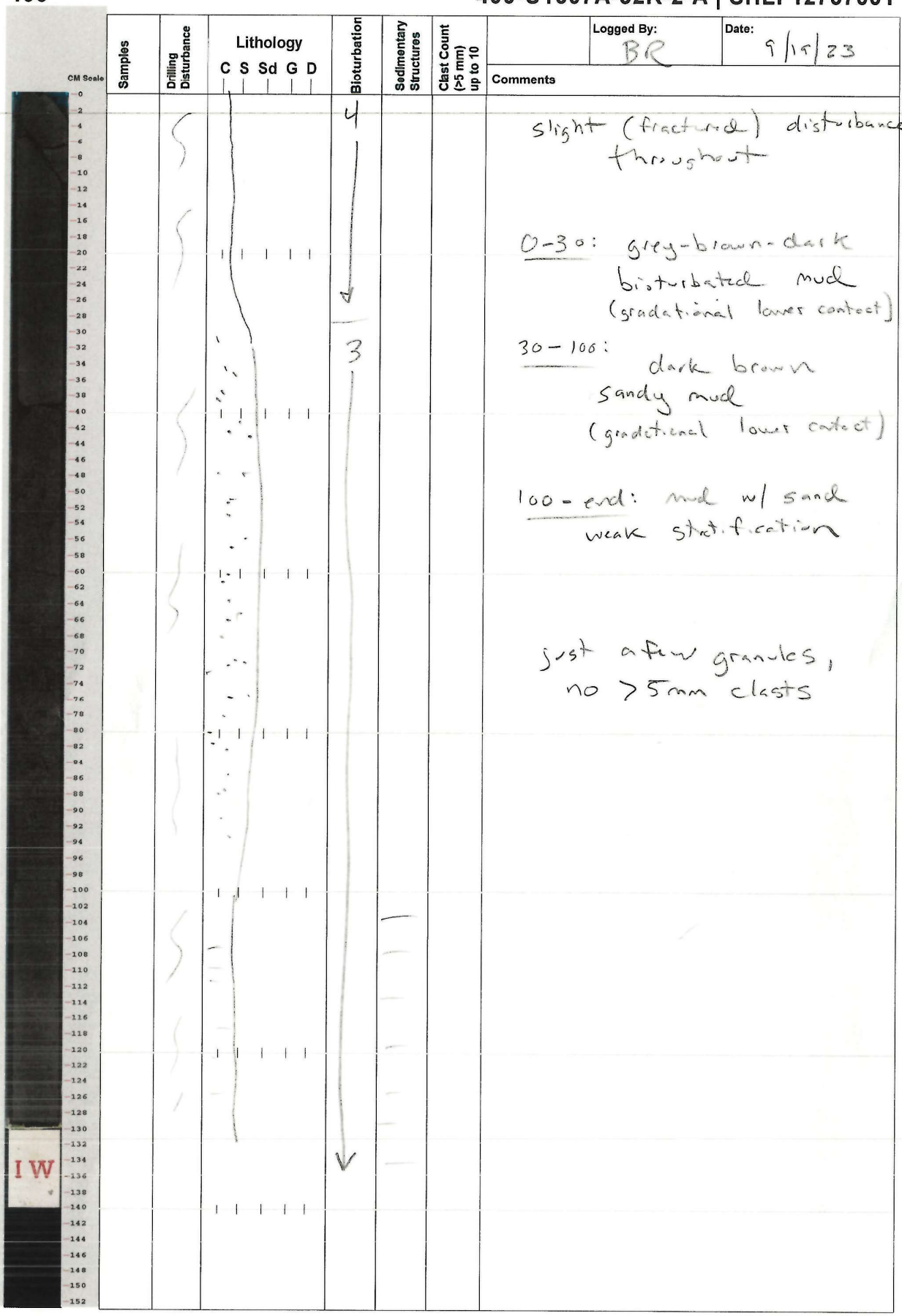


400-U1607A-32R-1-A | SHLF12736971

Logged By: BR

Date: 9/19/23

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152				4			0–60: Slight (fract-rock disturb) 60–95: moderate fracturing 95–end: slight fracturing grey-dark-brown bioturbated mud (dominantly black-infill burrows w some tan-filled near the base) very faint/cryptic lamination in some intervals (likely disrupted by burrowing) no clasts, some dispersed sand (but not much) 118–120: odd-looking burrow (?)  ~2cm


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
BR
Date:
9/19/23
Comments
4
3
slight (fractured) disturbance throughout
0-30: grey-brown-dark bioturbated mud (gradational lower contact)
30-100: dark brown sandy mud (gradational lower contact)
100-end: mud w/ sand weak stratification
just a few granules, no >5mm clasts
IW

400-U1607A-32R-3-A | SHLF12737031

Logged By: BR

Date: 9/19/23

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152				3			slight (fracturing) disturbance throughout
							0–40: dark brown bioturbated mud (a few dispersed grains) (gradational Lc)
							40–64: medium-brown bioturbated mud w/ sand (burrow fills + disrupted laminations, likely) (sharp Lc)
							64–97: dark brown sandy mud (gradational Lc)
							97–138: dark brown muddy sand (wonky stratified) (gradational Lc)
							138–end: dark brown sandy mud
							→ hints of angled stratification on x-ray image

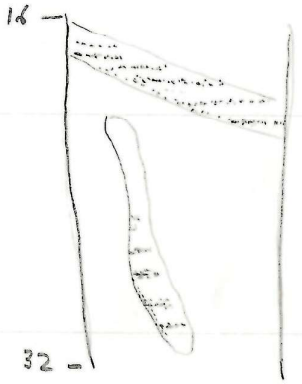
Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: BR	Date: 9/19/23
						Comments	

CM Scale

slight (fractured) disturbance throughout

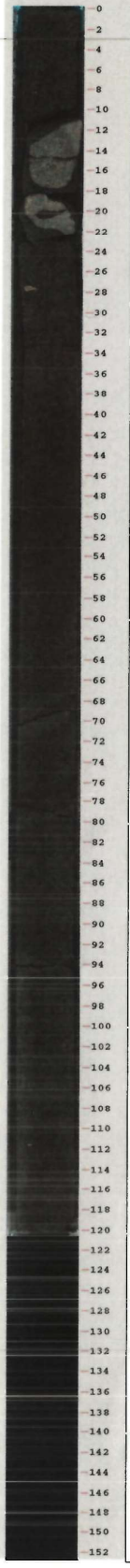
0-75: dark brown mud w/ sand

15-32: peculiar features that might be passively infilled burrows



UF sand lens infilling burrows?

75-end: dark brown sandy mud



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: BR	Date: 9/19/23
						Comments	

Cemented

3

0

3

slight (fractured) disturbance throughout

0-12 : sandy mud (dark brown)

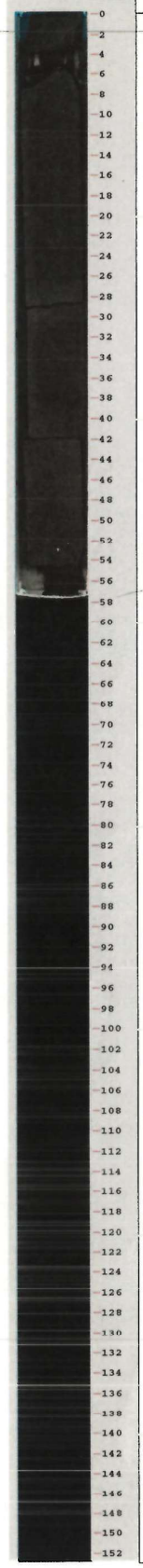
12-24 : calcite-cemented interval

24-76 : dark brown sandy mud w/ weak stratification

76-80 : laminated sand!! (for real!)

← look at it!

80-end : medium-brown sandy mud w/ disrupted lams ;)



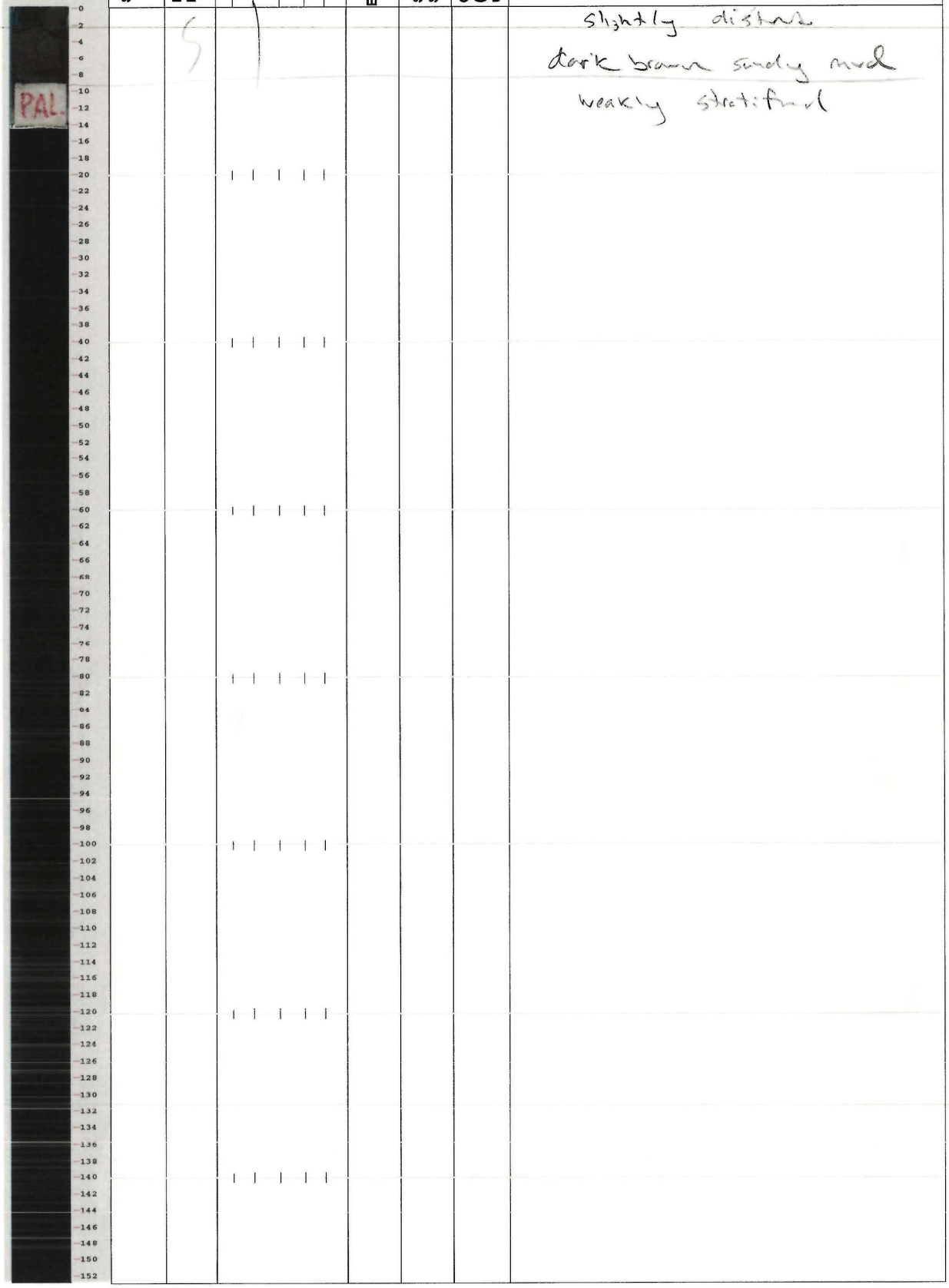
CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: BR	Date: 9/19/23
							Comments	

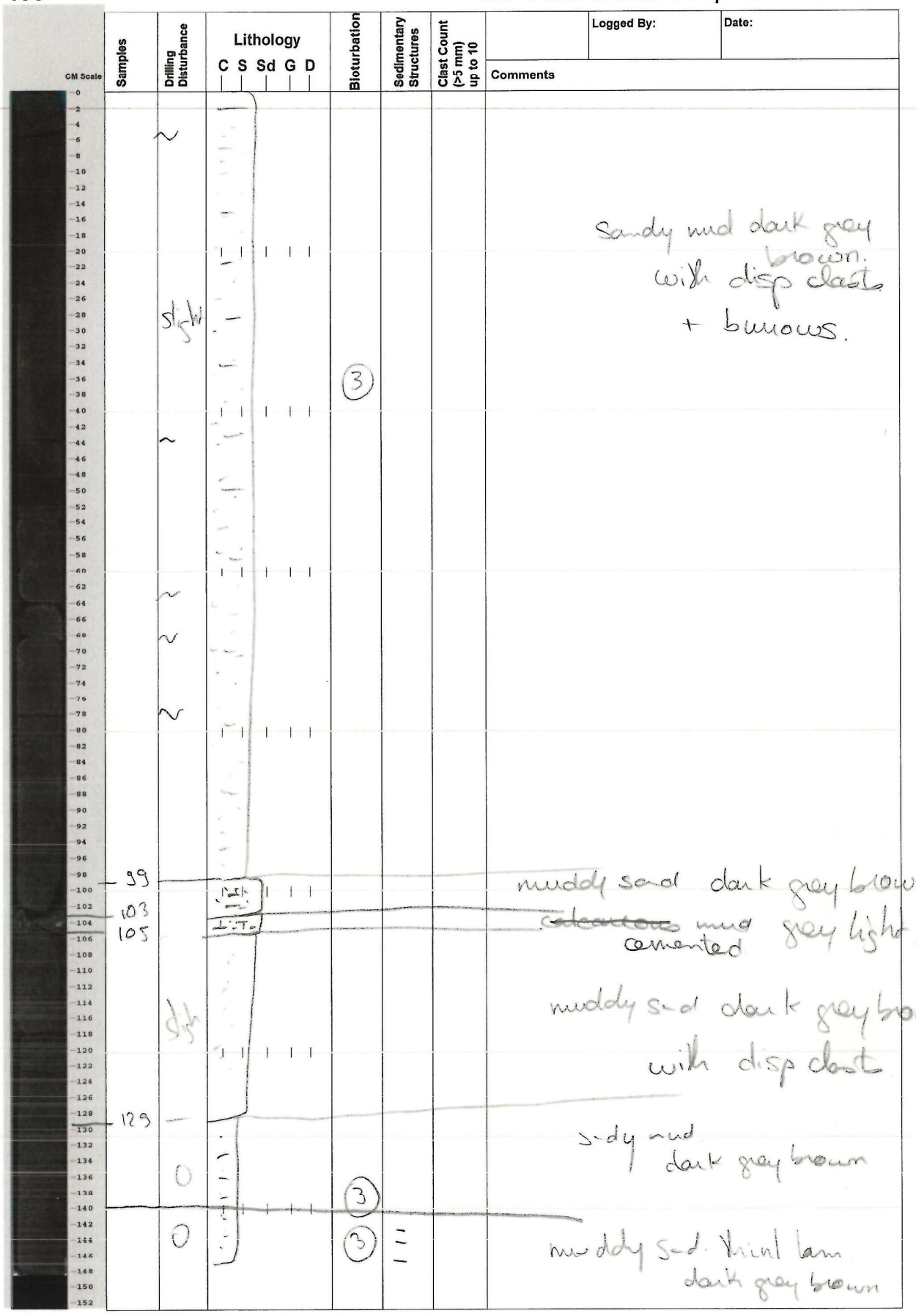
3

0–26: medium brown sandy mud w/ disrupted lams

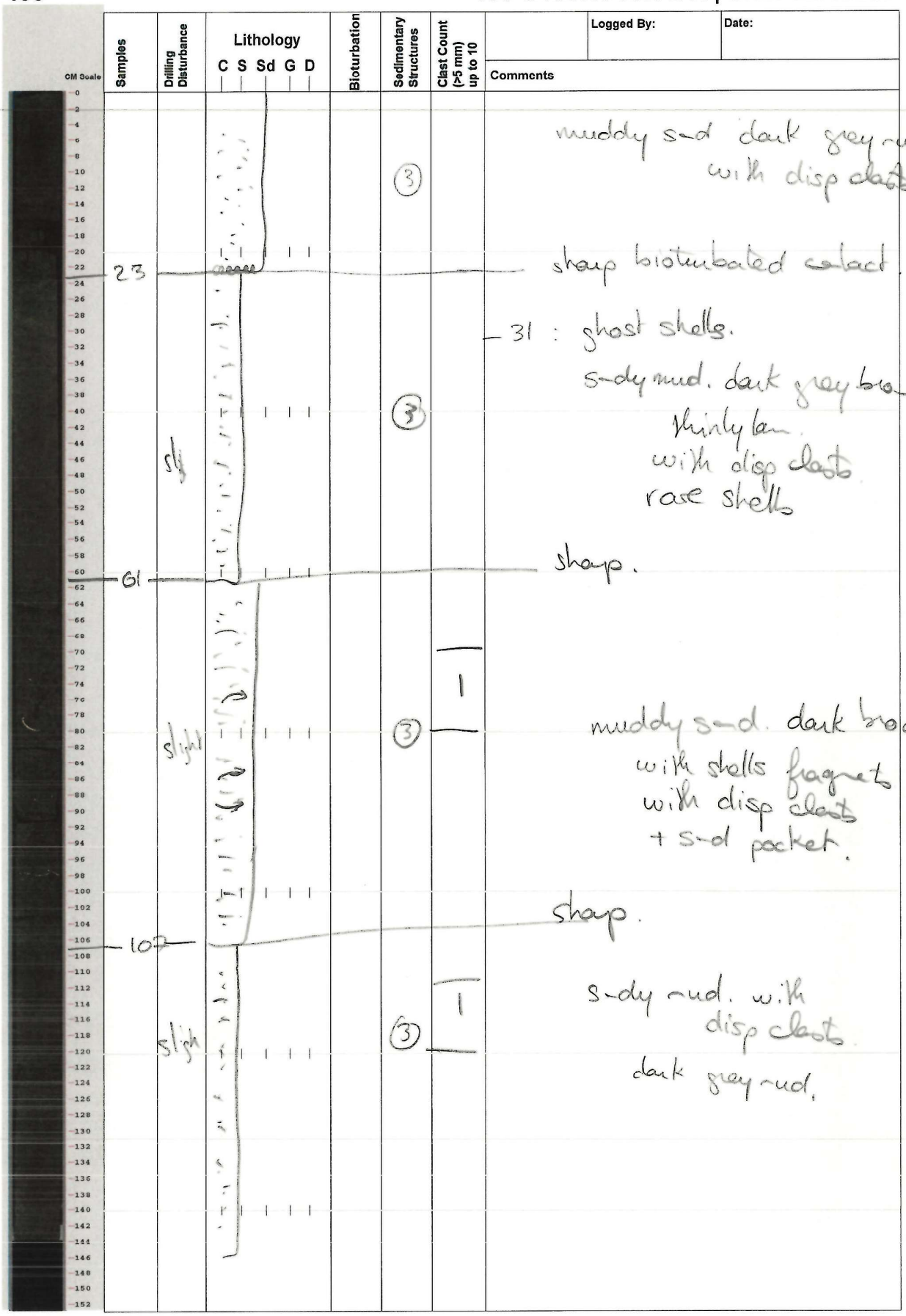
26–end: mud w/ sand (dark brown)

base of section


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
BR
Date:
9/14/22
Comments
slightly disturbed
dark brown sandy mud
weakly stratified
PAL



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
						Logged By: Date:
	~					Sandy mud dark grey brown. with disp clasts + burrows.
	slight					
			3			
	~					
	~					
	~					
	~					
99						muddy sand dark grey brown
103						~~calcareous~~ mud grey light cemented
105						
	slight					muddy sand dark grey brown with disp clast
129						sandy mud dark grey brown
	0		3			
	0		3			muddy sand thinl lam dark grey brown



Logged By: Date:

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–22					(3)		muddy sand dark grey mud with disp clasts
22	23						sharp bioturbated contact
22–60		slig			(3)		31 : ghost shells. sandy mud. dark grey brown. thinly lam. with disp clasts rare shells
60	61						sharp.
60–106		slight			(3)	1	muddy sand. dark brown with shells fragments with disp clasts + sand pocket.
106	107						sharp.
106–152		sligh			(3)	1	sandy mud. with disp clasts dark grey mud.

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
						Logged By: Date:
						sady mud dark grey thin lam.
	slight		1			
			1			~~calcareous~~ mud light grey. cemented.
	51					
						muddy sand dark grey brown.
	63					
			1			sady mud dark grey brown with disp clasts
	slight					
			3			muddy sand with burrow dark grey brown with disp clasts. + blebs of carbonates

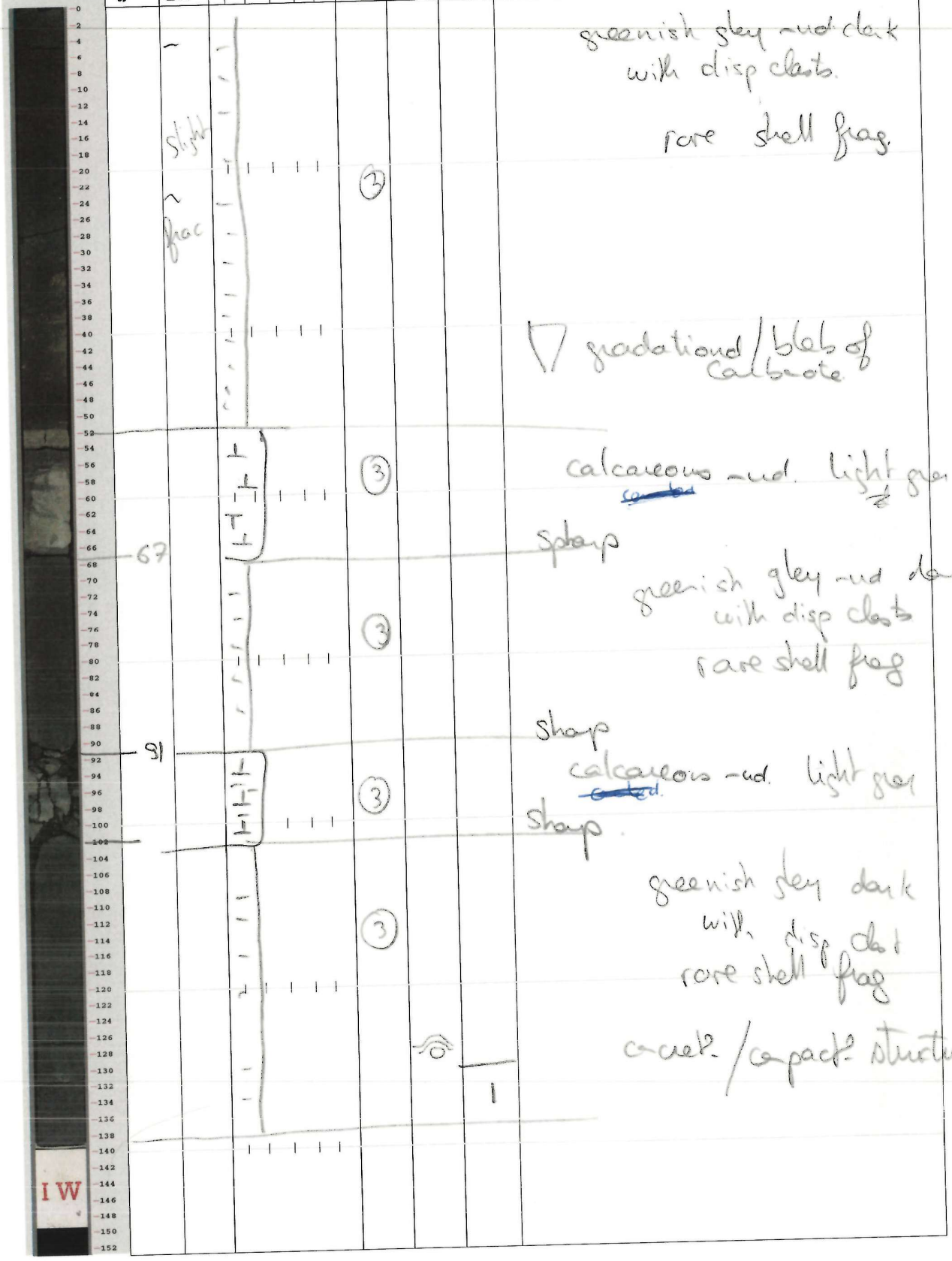


CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
							Logged By: Date:
0–20							
20–40		0		(3)			muddy sand dark grey brown. ⊙ benthic forams. rare shells.
40–80							
80–86		85					gradational boundary ▽ coa fine
86–100				(3)			sandy mud dark grey brown with bleb of calcareous mud at the bottom.
100–120		0					
120–152		~					

400-U1607A-33R-5-A | SHLF12737691

Logged By:

Date:



Logged By:

Date:

Comments

CM Scale

Samples

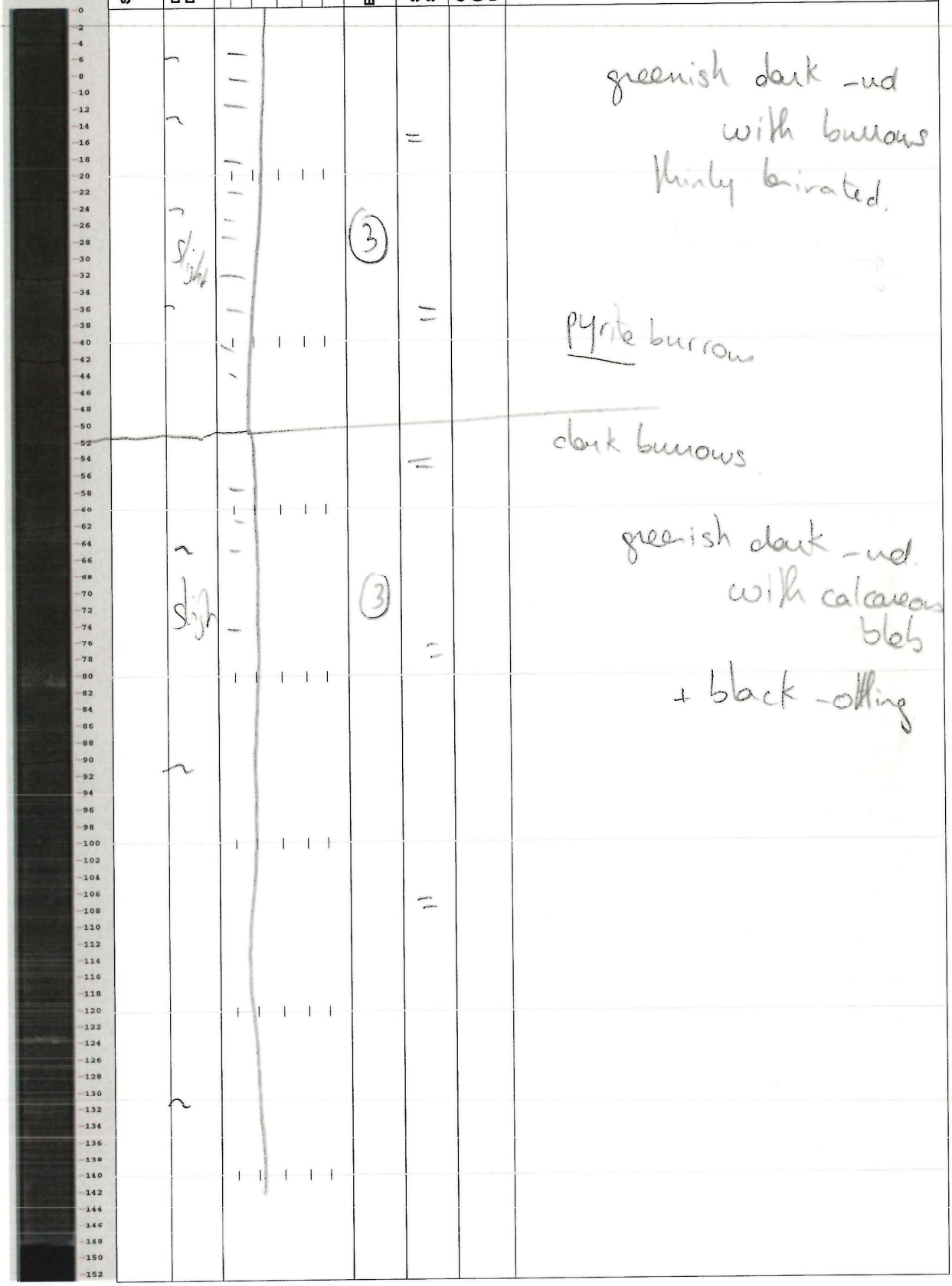
Drilling Disturbance

Lithology C S Sd G D

Bioturbation

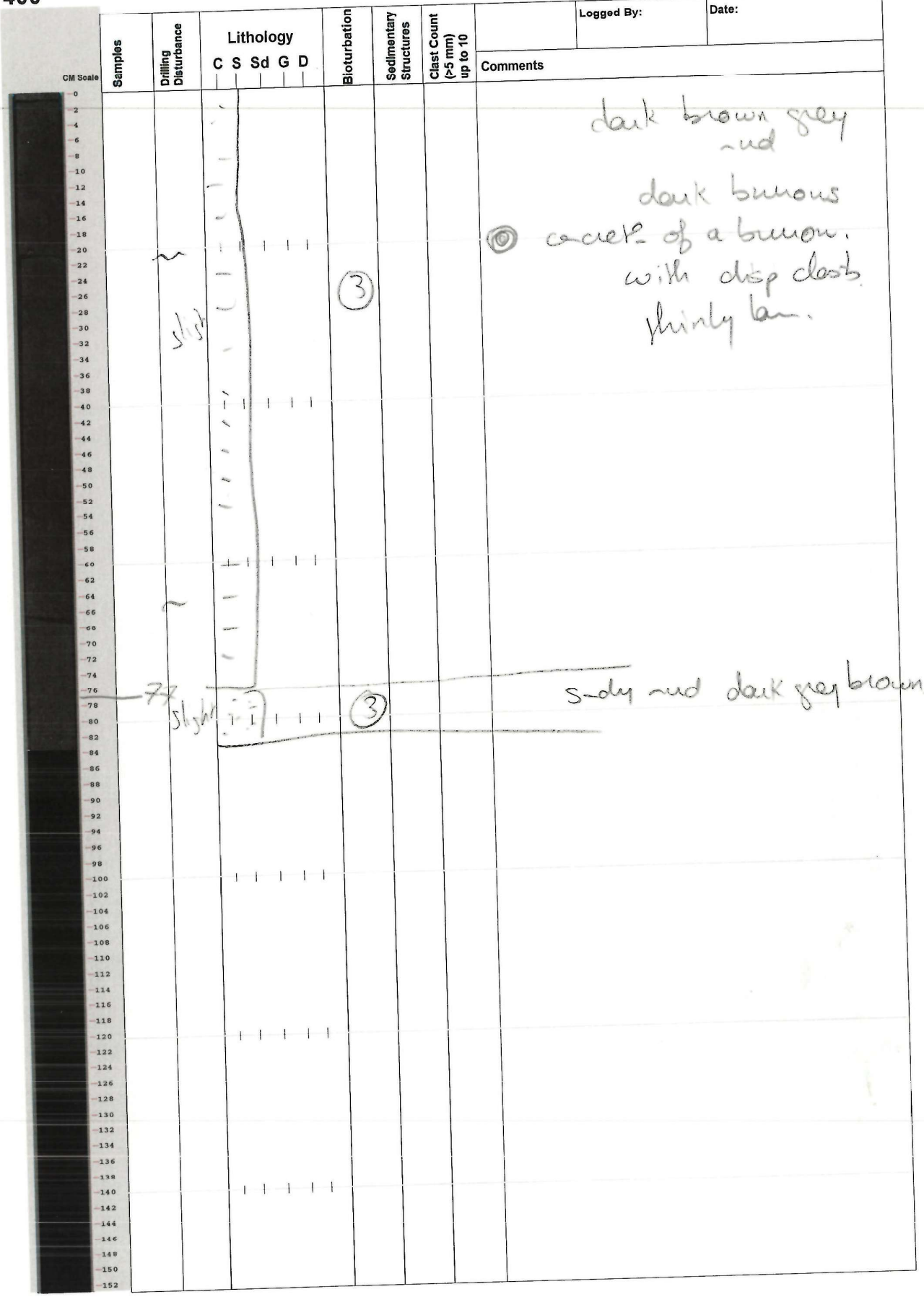
Sedimentary Structures

Clast Count (>5 mm) up to 10



Logged By:	Date:

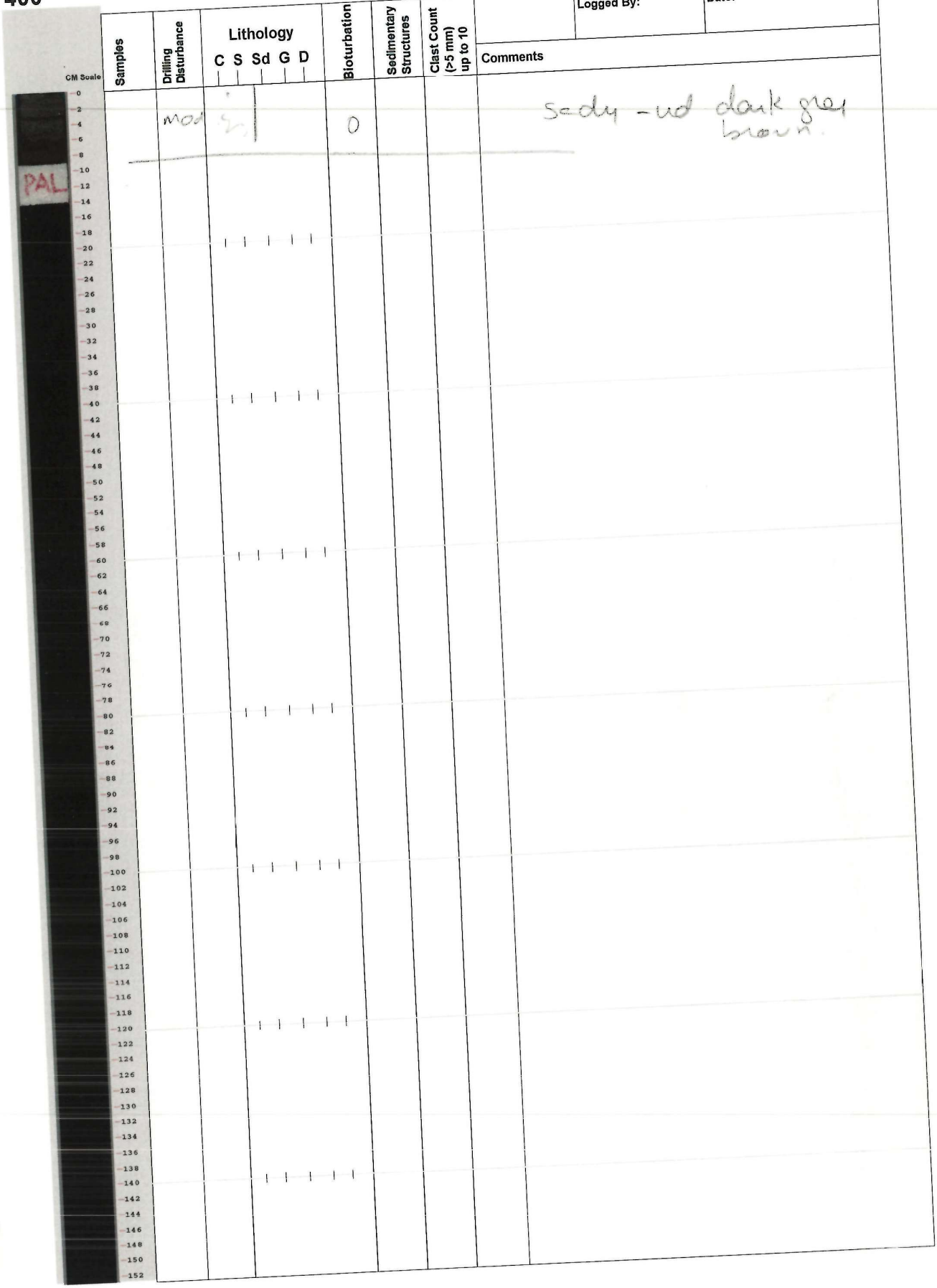
CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0							dark brown grey mud
2							
4							
6							
8							
10							
12							dark burrows
14							
16							
18							◎ concret. of a burrow.
20		~					with disp clasts
22							thinly lam.
24				(3)			
26							
28							
30		slight					
32							
34							
36							
38							
40							
42							
44							
46							
48							
50							
52							
54							
56							
58							
60							
62							
64		~					
66							
68							
70							
72							
74							
76	77						sandy mud dark grey brown
78		slight		(3)			
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							



400

400-U1607A-33R-CC-A | SHLF12737781

Logged By:	Date:

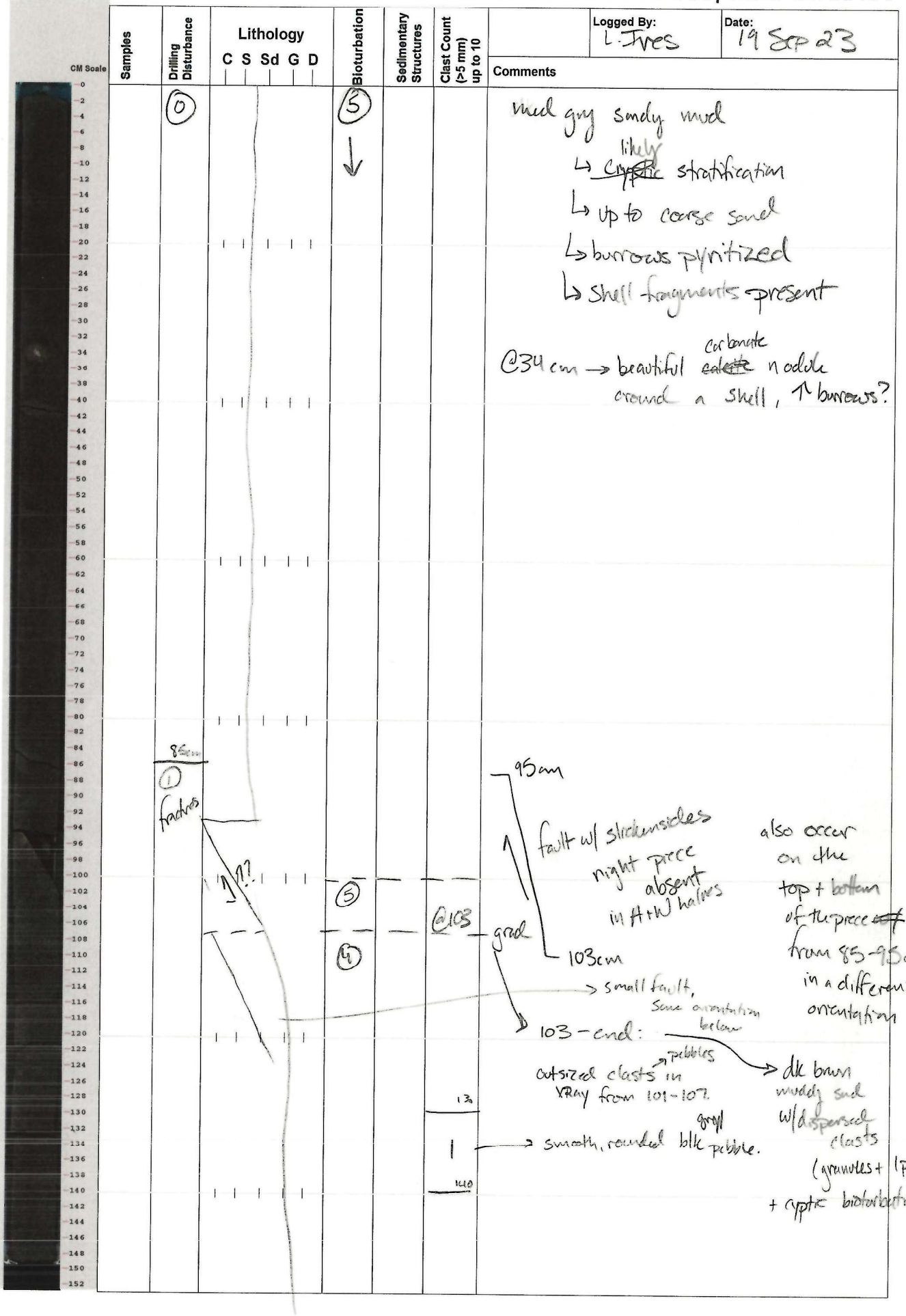


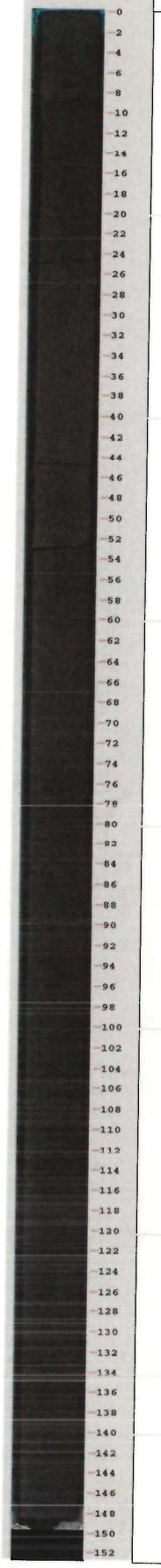
400-U1607A-34R-1-A | SHLF12738101

Logged By: L Ives

Date: 19 Sep 23

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–16		(4) full-in					
							17cm
18–20		(0)		(3)			
22–38							17 – 90 cm dk brown muddy sand w/ dispersed clast (granules) ↳ may be laminated along horiz. fracture ~~zone~~ zones ↳ very rare granules + pebbles dispersed throughout, + rare shell fragments ↳ sand is otherwise well-sorted + fine turf grained
40–88							
90							---- grad @ 90cm
92–98				(4)			med ~~dk~~ gry sandy mud, almost IL ↳ preserved sand laminae relatively well-sorted most w/ med-vc sand, poorly sorted.
100–120							↳ some burrows pyritized
122–152							


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By: L. Ives
Date: 19 Sep 23
Comments
mud gny smdy mud
likely
↳ Cryptic stratification
↳ up to coarse sand
↳ burrows pyritized
↳ shell fragments present
@34 cm → beautiful carbonate nodule around a shell, ↑ burrows?
85cm
fracture
95cm
fault w/ slickensides
right piece absent in H+W halves
also occur on the top + bottom of the piece from 85-95cm in a different orientation
@103
grad
103cm
small fault, same orientation below
103 - end:
pebbles
outsized clasts in XRay from 101-107
dk brown muddy sand w/ dispersed clasts (granules + 1 pebble) + cryptic bioturbation
gry
smooth, rounded blk pebble.



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: L. Ives	Date: 19 Sep 23
			(4)			Comments	

dk brown muddy sand
↳ cryptically bioturbated
↳ rare granules
↳ really looks like everything was laminated at one point,
↳ burrows visible as Δ in sediment type + density.

@145 cm → foram! recrystallized, but chambers are visible.

400-U1607A-34R-4-A | SHLF12738191

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: L Ives	Date: 19 SEP 23
						Comments	

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

1 fractured

5

0

Dk brown, bioturbated muddy sand

no granules

"cryptic bioT"

31 cm

→ sharp, angular

→ carbonate cemented

→ sharp, irregular 36 cm

grad. @ 42 cm

3

med brown muddy sand

↳ more sand that is less dispersed.

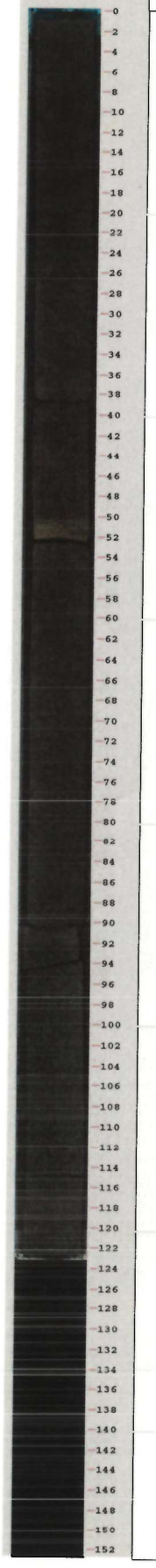
grad @ 78 cm

5

As top of section

IW

400-U1607A-34R-5-A | SHLF12738221



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: L. Ives	Date: 19 Sep 23

Comments

3 0-46 cm dk brwn muddy sand as above
↳ xrays + surface shows aspiration X-lams
↳ no granules
↳ cryptic burrows

C6-16cm : white specs are forams Sandrine ID'd them as planispheral (sp?)

lt brwn
C50-52 cm, calcareous whispy mud

4 C46-65 cm – Med brwn muddy sand
> sand/mud
↳ dispersed granules

C65-end

as top of section

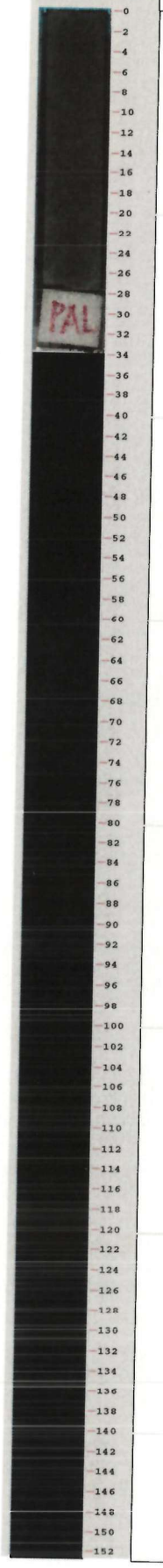
400-U1607A-34R-6-A | SHLF12738251

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: L. Ives	Date: 18 Sep 23
						Comments	

CM Scale

As previous
↳ dk brown muddy sand
no granules

400-U1607A-34R-CC-A | SHLF12738281

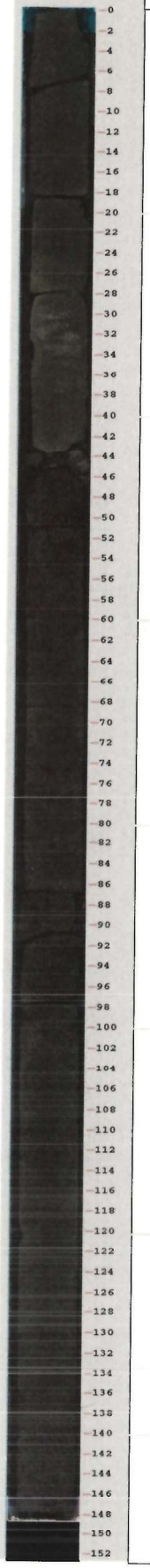


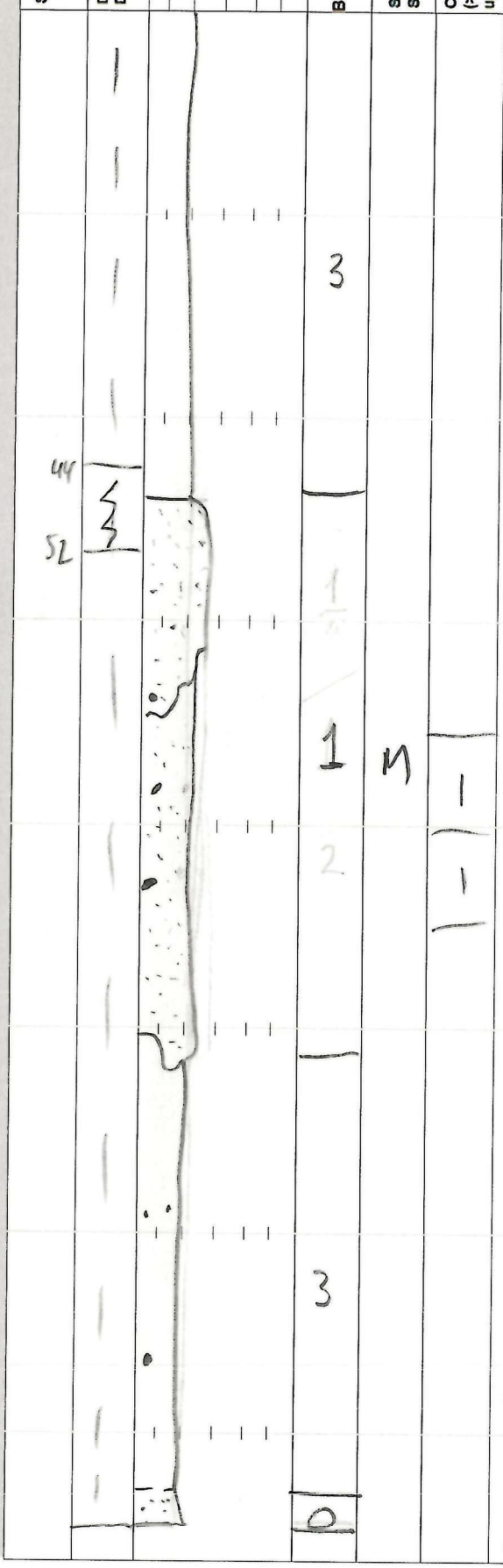
Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: L. Ives	Date: 19 Sept.
						Comments	

As for previous + GA

↳ w/ granules + forams

Logged By: Sandra
Date: 9/19/2023
Comments: good x-rays





0-46cm: Dark greenish grey mud, moderately bioturbated

foraminifera are present
rare shell fragments
pyritized burrows

~46cm: contact is disturbed

46-68 cm: Very dark greyish brown muddy fine sand, dispersed coarse sand grains

68cm: irregular inclined sharp lower contact

68-102 cm: Dark greyish brown sandy mud w/ dispersed clasts

102 cm: sharp, irregular inclined contact, loaded?

102-144cm: Dark greenish grey mud, moderately bioturbated w/ disp clasts

132cm: granule
some dispersed coarse sand is also present

144-149cm: Dark greyish brown sandy mud

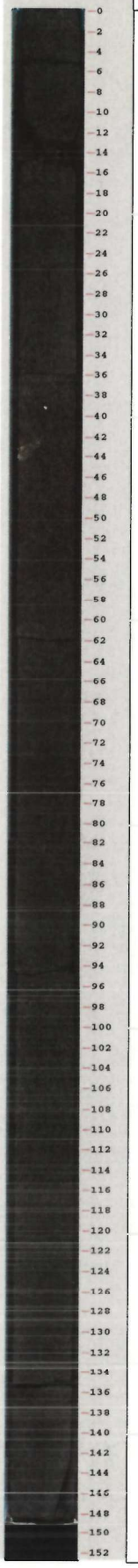
144cm: gradational contact

400-U1607A-35R-2-A | SHLF12738731

Logged By: Sandra

Date: 9/19/2023

Comments: good x-rays



0-16 cm: Very dark greyish brown muddy fine sand sharp lower contact w/ shell fragment? crude stratification or beddy

16 cm: sharp contact

16-120 cm: Dark greyish brown sandy mud grading down to mud

rare dispersed coarse sand grains

44-45 cm: large shell fragment

120-149 cm: Dark greenish grey bioturbated mud w/ disp. sand grains

Logged By: Sandra

Date: 9/19/2023

Comments: good x-rays

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
0–150					3	
					0	
					1	
						0
					3	
150–152						

0–17 cm: continue from S2 shell fragments, w/ disp. dark (granule @ 13 cm)

17–23 cm: Very dark greyish brown sand, shell fragm.

23–121 cm: Dark greyish brown sandy mud grading down to mud

121–149 cm: Dark greenish grey bioturbated mud.

132 cm: pyritized burrow? or foram?

Logged By: Sandra

Date: 9/19/2023

Comments: good x-rays

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
0–150				3 (0–50 cm); 1 (80–150 cm)	M (60 cm)	Ø (60 cm)

0–50 cm: continuation from 3H gradational contact

50–90 cm: Dark greyish brown sandy mud grading down to mud

rare shell fragments
rare dispersed sand grains

90–150 cm: Dark grey mud

400-U1607A-35R-5-A | SHLF12738821

Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
			1		
			5	II	∅
			3		

Logged By: Sandra

Date: 9/19/2023

Comments: X-rays are good

0-40cm: Dark grey mud w/ few sand grains

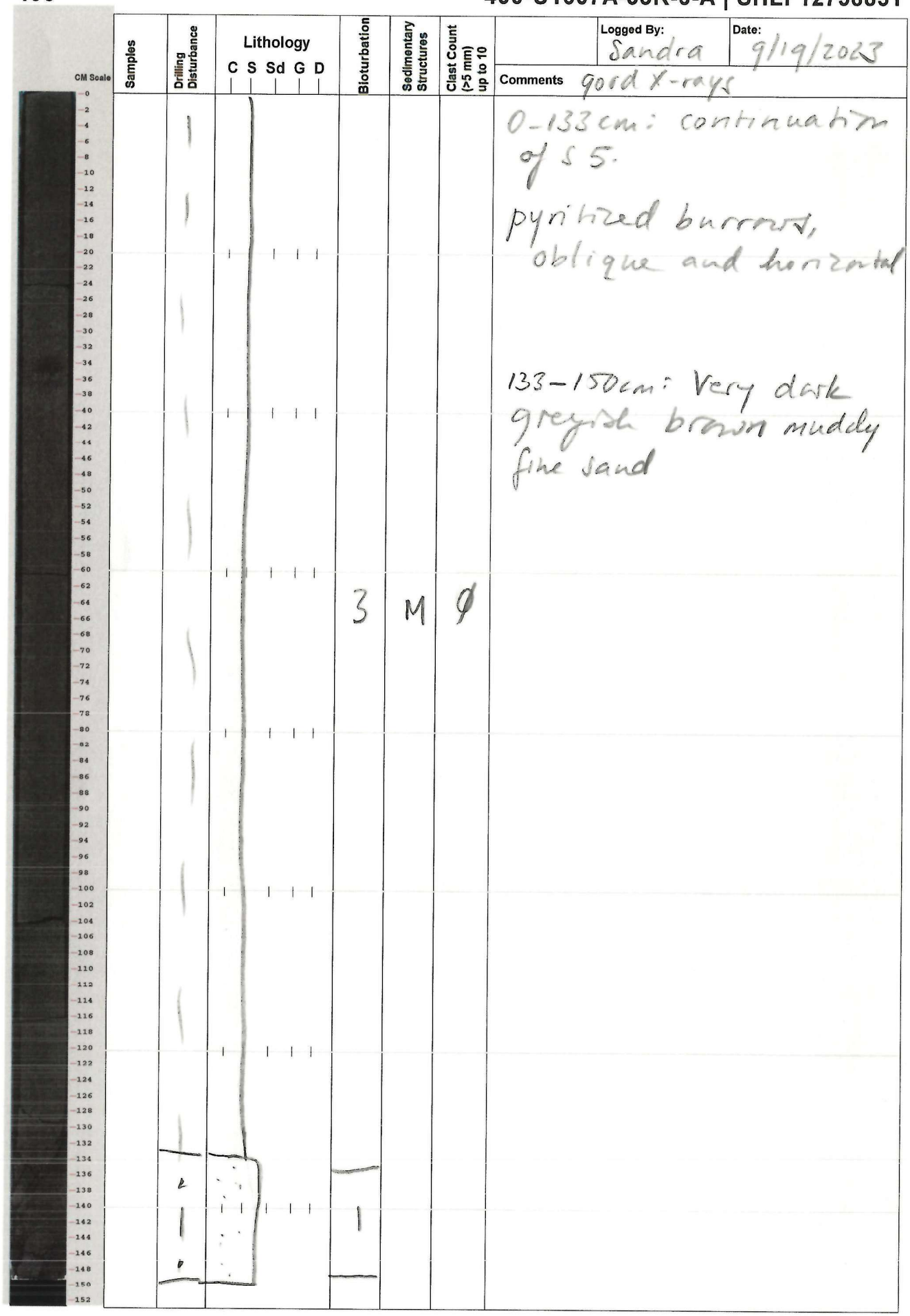
40cm: gradational contact

40-140cm: Dark greenish grey mud, bioturbated

40-60cm: calcite cemented and abundant bioturbation, vertical + horizontal

60-140cm: moderately bioturbated, pyritized burrows, horizontal and vertical

IW


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Sandra
Date:
9/19/2023
Comments
good X-rays
0-133cm: continuation of 5 5.
pyritized burrows, oblique and horizontal
133-150cm: Very dark greyish brown muddy fine sand
3
M
9

400-U1607A-35R-7-A | SHLF12738881

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
0–152				1	M	Ø

Logged By: Sandra

Date: 9/19/2023

Comments

0-75 cm: Dark greyish brown sandy mud w/ disp. clasts

400-U1607A-35R-CC-A | SHLF12738911

Logged By: Sandra

Date: 9/19/2023



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20				1		Ø	Same as 5.7
20–40							
40–60							
60–80							
80–100							
100–120							
120–140							

400-U1607A-36R-1-A | SHLF12739121

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
0–152				3		

Logged By: BR

Date: 9/19/23

Comments

Slight (fractured) disturbance throughout

0-88: grey-brown-dark bioturbated mud w/ sand; weakly stratified

(coarsest dispersed grains are coarse sand)

(gradational LC)

88 – end: dark brown bioturbated muddy sand w/ weak stratification

(the sand seems finer than other examples)

outsized grains are sparse and up to 2mm

400-U1607A-36R-2-A | SHLF12739151

Logged By:	Date:
BR	9/19/23

CM Scale

Samples | Drilling Disturbance | Lithology (C S Sd G D) | Bioturbation | Sedimentary Structures | Clast Count (>5 mm) up to 10

Comments

Slight (fractured) disturbance throughout

0–85: dark brown bioturbated muddy sand w/ weakly stratified (gradational LC)

outsized clasts up to ~4 mm

85–end: grey-brown-dark bioturbated sandy mud, weakly stratified (w/ interval @ very base of more distinct interlaminated deposits)



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
					1

Logged By: BR

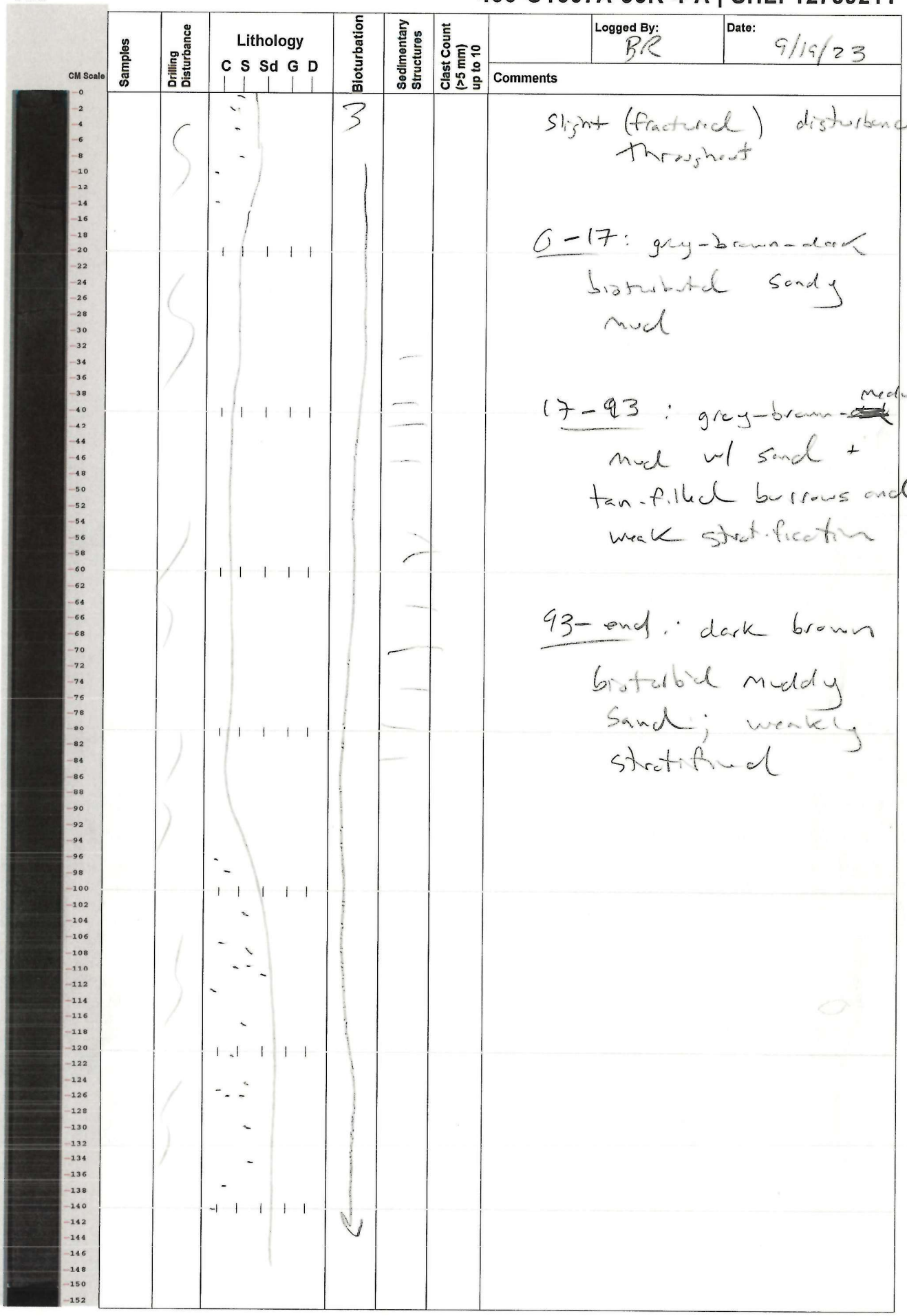
Date: 9/19/23

Comments

slight (fractured) disturbance

grey-brown-dark bioturbated sandy mud throughout; weakly stratified w/ rare outsized clasts (mostly sand, one pebble)

* is difficult to distinguish sandy mud vs. muddy sand b/c the sand fraction is very fine to lower fine (~100-150 μm)


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By: BR
Date: 9/19/23
Comments
Slight (fractured) disturbance throughout
0-17: grey-brown-dark bioturbated sandy mud
17-93: grey-brown-medium mud w/ sand + tan-filled burrows and weak stratification
93-end: dark brown bioturbated muddy sand; weakly stratified

pyrgo

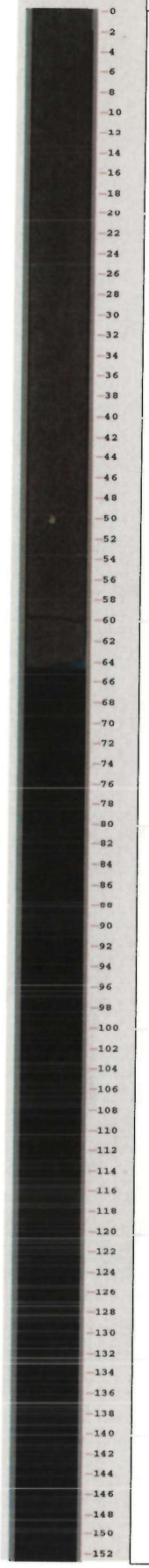
400-U1607A-36R-5-A | SHLF12739241

Logged By:	Date:
BR	9/19/23

Comments

Slight disturbed (almost undisturbed)

dark-brown bioturbid muddy sand w/ dispersed clasts



400-U1607A-36R-CC-A | SHLF12739271

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

PAL

Same as Sect. 5

Logged By: ET

Date: 9/20/23

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–10		2 biscuits		0		0	(0-10cm) muddy sand dark brown
10–20				3		1	
20–22						0	
22–24		1 crack					(10-20cm) mud with sand dark greyish brown gradational over 20cm
24–60							(20 - 145cm) mud-with sand dark greenish grey with some sand lenses/microfossils 58-60cm pyrite burrows
60–80							→ small mm scale burrows of light mud lightening downcore
80–100							
100–120							
120–140							
140–152							

Logged By: ET

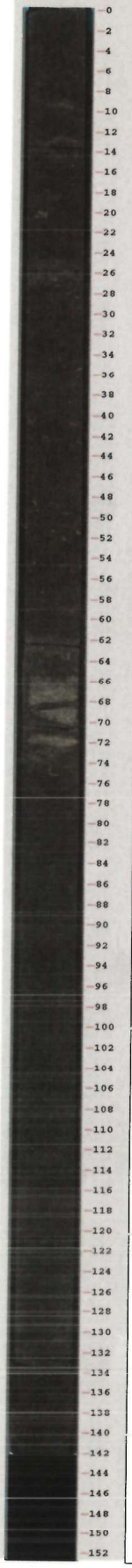
Date: 9/20/23

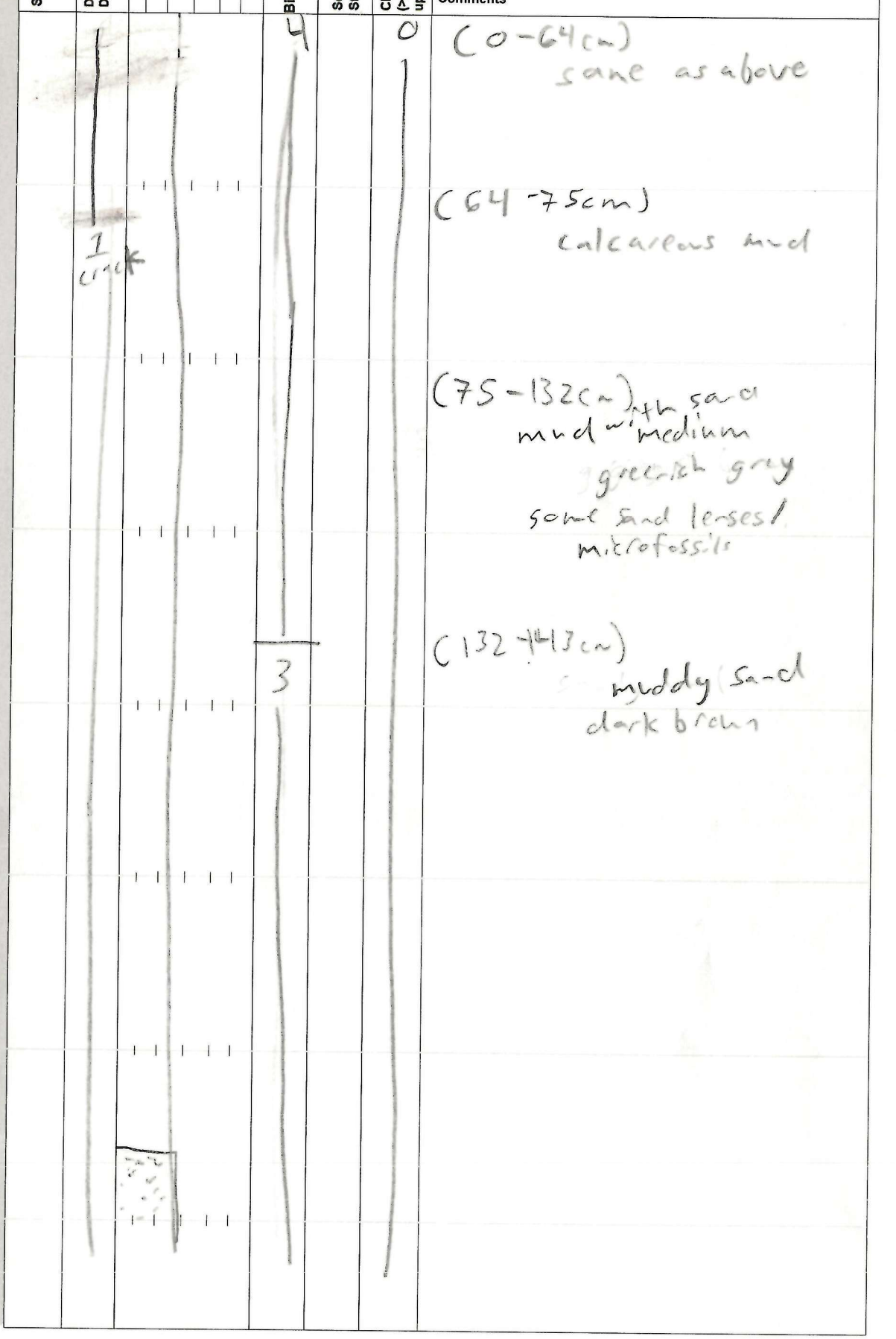
CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152		1	crack	3		0	Same as above (0-57cm) (57-62cm) calcareous mud concretions medium grey 53-54cm pyrite burrows (62cm-140cm) with sand mud with medium grey greenish grey lightening down core

IW

400-U1607A-37R-3-A | SHLF12739881

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: ET	Date: 9/20/23
						Comments	





(0-64cm)
same as above

(64-75cm)
calcareous mud

(75-132cm) with sand
mud with medium
greenish grey
some sand lenses/
microfossils

(132-143cm)
muddy (sand
dark brown

400-U1607A-37R-CC-A | SHLF12739911

Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: ET	Date: 9/20/23
	2		0		0	Comments: (0-10cm) same as above	

CM Scale

PAL

400-U1607A-38R-1-A | SHLF12740271

Logged By: GG

Date: 20 Sep.

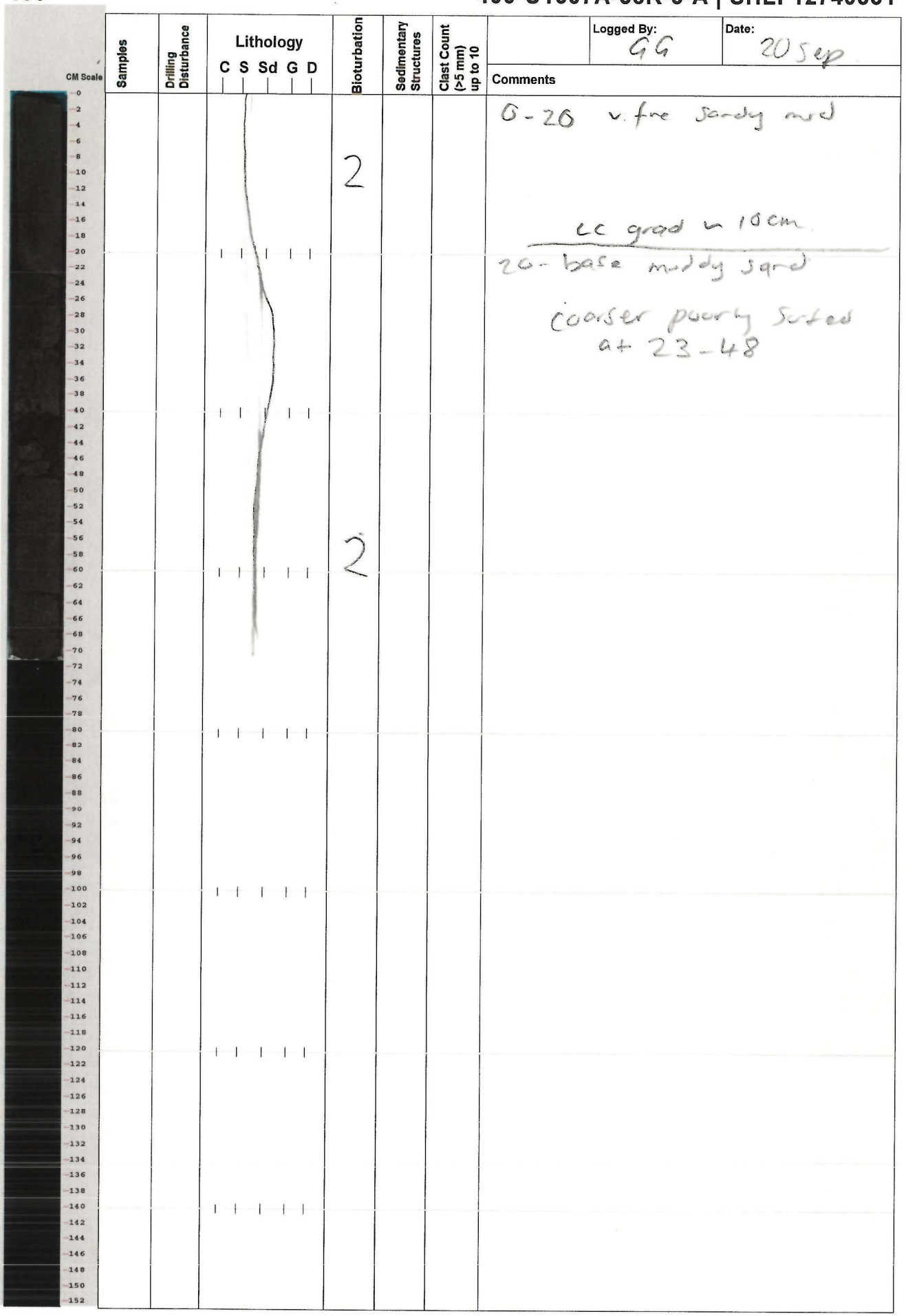
CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20		0		2		3	0–3 muddy sand dk greenish grey thin lam LC: grad 1cm 3–50 sandy mud w dispersed clasts fine gravel crystals (Qtz)
20–40				2			
40–60				?		3	LC: grad 10cm 50–143 muddy sand dk grey. coarsening to 56cm – 100cm poorly sorted v fine otherwise Some bioturbation apparent by sand mixing / strat suggestions
60–80		3		2			
80–120							
120–140		3					grain size fining down. LC: sharp planar relat.
140–152							143 – base sandy mud v fine sand

400-U1607A-38R-2-A | SHLF12740301

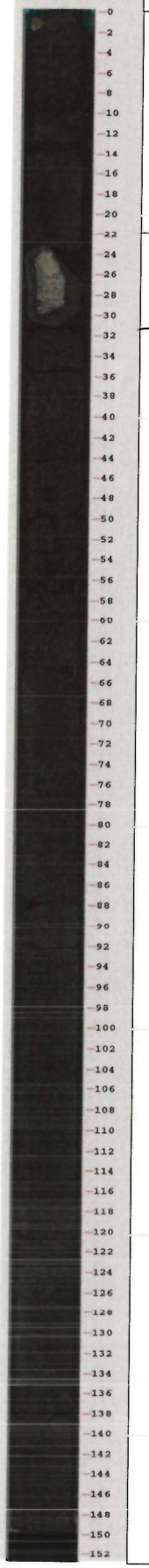
Logged By:	Date:
GG	20 Sep.



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
			2	X	.	0-5 SR v. fine sandy Mud. med grey bioturbated presenting whitish burrows – also infilled w/ creamy reprecip CaCO3. Lightening down core ↳ + increasing burrows.
			2		1	
			3			
			3			
			3			


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By: GG
Date: 20 Sep
Comments
0-20 v. fine sandy mud
2
cc grad in 10cm
20- base muddy sand
coarser poorly sorted at 23-48
2

400-U1607A-39R-1-A | SHLF12740561



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: TF	Date: 9/20/23
	1		1		0	Comments	
	C					Dark brn-grey	
	R					grnr SS	
	A					stratified	
→	CK					isolated cm-scale	
						vertical + horiz	
—						burrows filled	
						w/ light-brown	
						mud	
						22-32 cm $CaCO_3$	
						cemented interval	

400-U1607A-39R-2-A | SHLF12740591

Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	

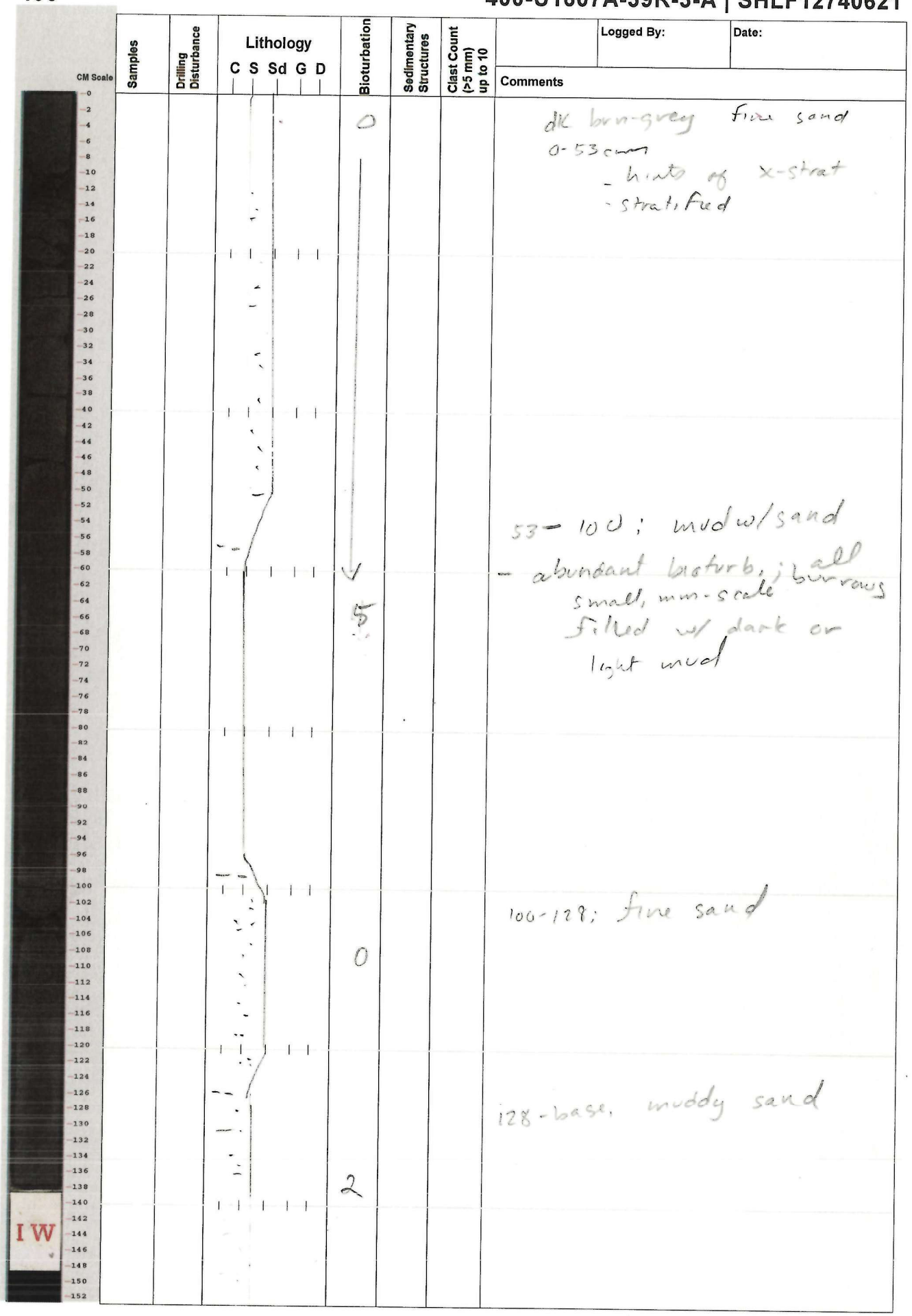
CM Scale: 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 94 96 98 100 102 104 106 108 110 112 114 116 118 120 122 124 126 128 130 132 134 136 138 140 142 144 146 148 150 152

Bioturbation: 1 (0–100); 2 (100–base)

Clast Count (>5 mm) up to 10: 0; 2; 0; 1; 1

0–100: as above, grading ↓ into sandy mud.
- stratified
- some inclined burrows w/ dk brn sand fill (cm-scale)
- some → ⊜ w/ lighter sed.

100-base: dk grey sandy mud
- sand is unevenly distributed in pockets + lenses
- a few granule-sized clasts
- stratified
- tiny, mm-scale burrows


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Date:
Comments
dk brn-grey fine sand
0-53 cm
- hints of x-strat
- stratified
0
53-100; mud w/ sand
- abundant bioturb.; all small, mm-scale burrows filled w/ dark or light mud
5
100-128; fine sand
0
128-base, muddy sand
2
IW

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0							dk brown-grey fine sand 0-90
10				0			
20							upper part is clearly stratified (to ~ 90 cm)
40							bioturbation evident below 90cm
60							- single cm-scale burrows filled w/ host sed (same color) vertical + inclined
80							- some sand sorting inside
90							90-base: muddy fine sand
100							
120				1			
140							

Logged By:

Date:

400-U1607A-39R-5-A | SHLF12740681

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	

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

1

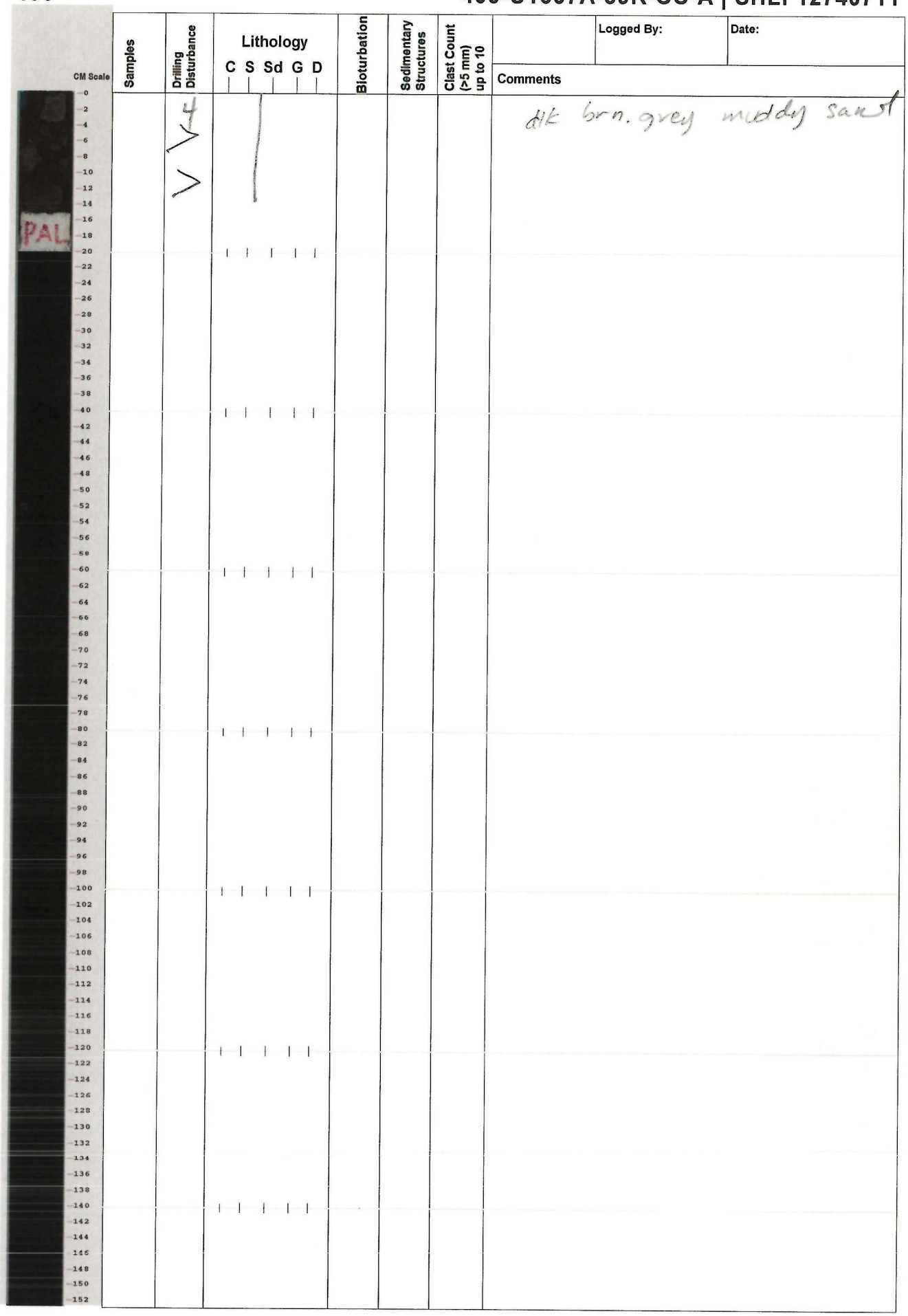
0

0

dk brn grey v. fine sand

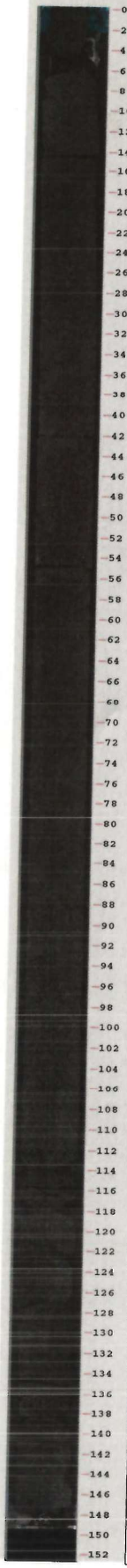
looks massive

4-3


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Date:
Comments
dk brn. grey muddy sand
PAL

400-U1607A-40R-1-A | SHLF12741131

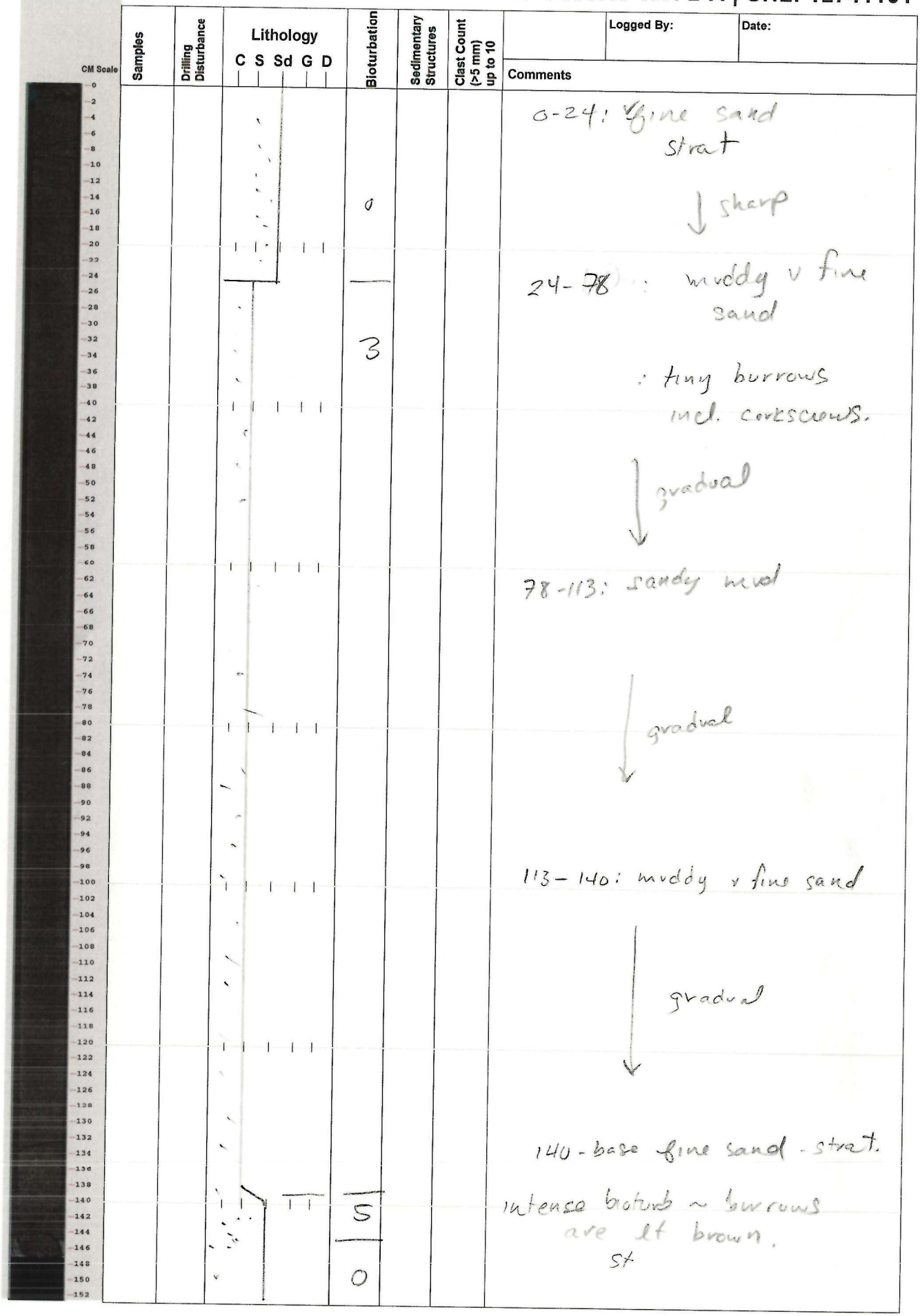
Logged By:	Date:
TK	9/20/23



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–113		0		2			0-113 dark gr-brn muddy sand - stratified rare burrows - rare bivalves
70							→ intact bivalve
100–113		2		0			113-base v. fine sand stratified

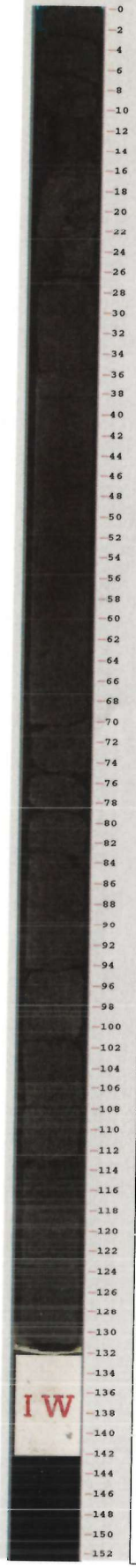
400-U1607A-40R-2-A | SHLF12741161

Logged By:	Date:



400-U1607A-40R-3-A | SHLF12741191

Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	



0-36: fine sand, as above
a few large light-colored burrows

↳ sharp

36-71; muddy sand
: stratified

1

a few small traces visible due to color differences

2

0

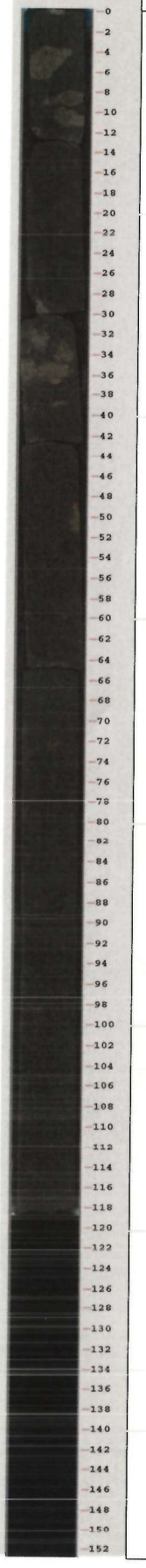
71- base ✓ fine sand

Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
	0		0			0-31: Fine sand sharp, bioturbated lower contact
		sand-filled burrows	1			31-81: sandy mud a few larger sand-filled burrows
	3		0			81-104: Fine sand
		sand-filled burrows	3			104-base: mud w sand cm-scale burrows highlighted by light brown carbonate sand irreg. distributed as lenses + laminae



Impt surface?

400-U1607A-40R-5-A | SHLF12741251



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	

0-53: mud w/ sand bioturbated
large lt brown blobs - calcified burrows

3

53 - base sandy mud
as above but more sand
lost of calcified blobs
stratified

4

74cm - angular clast of friable SS (1cm)

1

mm-scale burrows

400-U1607A-40R-CC-A | SHLF12741281

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

as above
less distinct bioturbation

CM Scale

PAL

400

400-U1607A-41R-1-A | SHLF12741531

Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
	1	biscuiting	1	Stratified	0

Logged By: ET

Date: 9/20/23

Comments

(0-47cm)
mud with sand
gradational increase
in sand
dark brown

(47-137)
dark brown
muddy sand

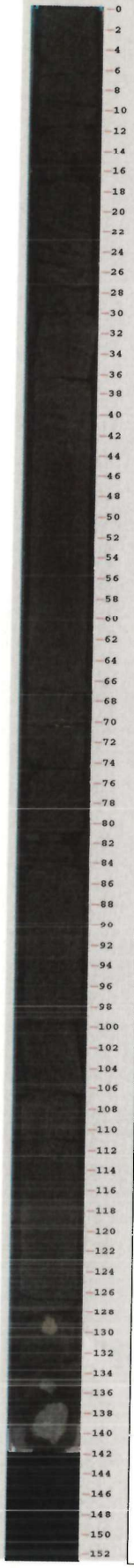
(137-147cm) dark grayish
mud with sand brown

CM Scale

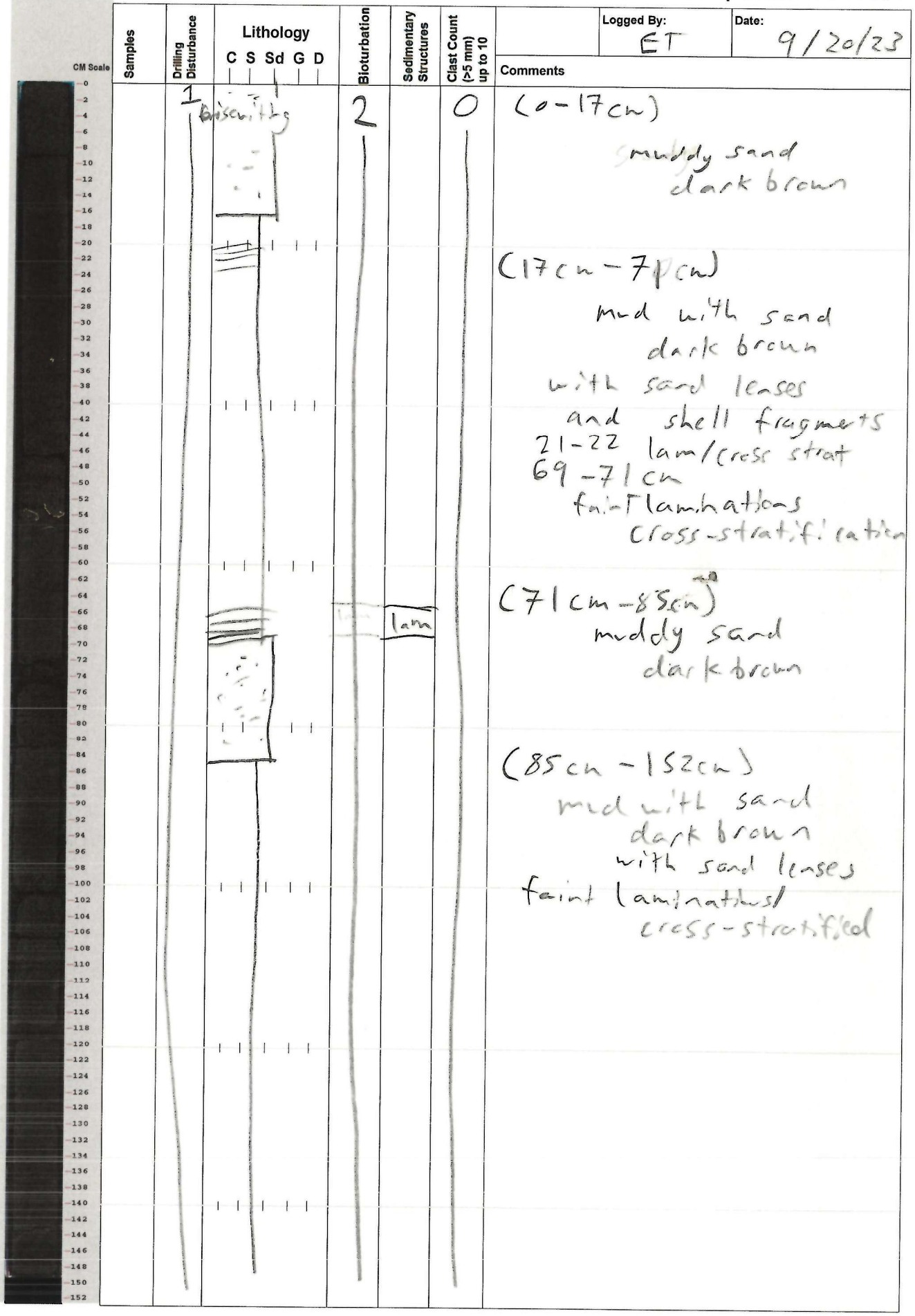
400-U1607A-41R-2-A | SHLF12741561

Logged By: ET

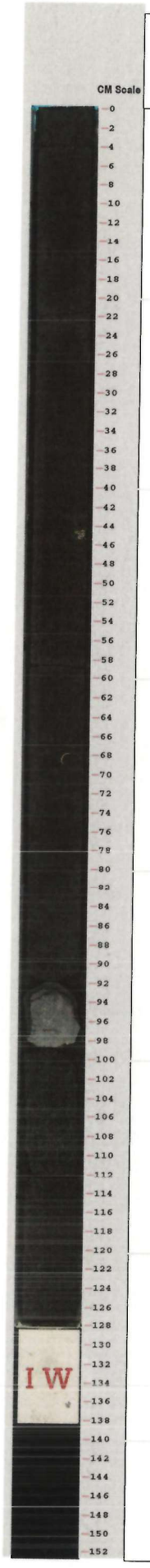
Date: 9/20/23



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
	1	clasts	1		0	(0-43 cm) dark brown muddy sand
			3			(43-66 cm) dark brown mud with sand some sand leases and shell pieces
			2			(66-134 cm) dark brown muddy sand with shell pieces
					1	large burrow at 131 cm
					0	
						(134-142 cm) Calcareous mud light grey Some burrows appear after cementing concretion/cement


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By: ET
Date: 9/20/23
Comments
1
biscuiting
2
lam
0
(0-17cm)
muddy sand
dark brown
(17cm-71cm)
mud with sand
dark brown
with sand leases
and shell fragments
21-22 lam/cross strat
69-71 cm
faint laminations
cross-stratification
(71cm-85cm)
muddy sand
dark brown
(85cm-152cm)
mud with sand
dark brown
with sand leases
faint laminations/
cross-stratified

400-U1607A-41R-4-A | SHLF12741621



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: ET	Date: 9/20/23
	1		3		0	Comments	

(0 – 27cm)
mud with sand
light tanty downcore
dark brown
faint lam/cross strat

27-87cm
mud with sand
medium greyish
brown
with shell pieces
faint laminations

(87 – 91cm)
muddy sand
dark brown

(91 – 100cm)
calcareous mud
light grey
concretion/cement

(100 – 128cm)
mud with
sand
dark brown

400-U1607A-41R-5-A | SHLF12741651

Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: ET	Date: 9/20/23
	2	Exact	2		0	Comments	

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

(0 - 12cm)
same as above
shell fragments

12 - 52cm)
muddy sand
dark brown

(52 - 70cm)
mud with sand
dark brown

400-U1607A-41R-CC-A | SHLF12741681

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: ET	Date: 9/20
0–152		0		2		0	Comments: same as above (0–10 cm)	

PAL

400-U1607A-42R-1-A | SHLF12741971

Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: GG	Date: 20 Sep.
						Comments	

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

Drilling Disturbance: 0 | X | frac | X

Bioturbation: 3 | 2 | 2

Clast Count (>5 mm) up to 10: 0 | 1 | 1

0-36 Muddy sand
greyish brown

Bioturbation - thin branch like in

LC sharp

36- base sand
v sml fraction mod eg <25%
dark ~~grey~~ brown
Stratified

400-U1607A-42R-2-A | SHLF12742001

Logged By:	Date:
GG	20 Sep

Comments

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
0–152		Y		2		0
		Y				
		Y		2		
		Y				
		O		3		
		X			C	
				3		
		Y		3	V	1

0-59 Sand
Brown dark

LC: grad -2cm

59-base
Sandy Mud w
bioturbation

138-base Muddy Sand

Logged By:	Date:
GG	20 Sep



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
				X		Muddy Sand
	X		3			E bioturb.
			3			
	X					
						Calcareous/ Concretion
	X					
			3			

Logged By: GG

Date: 20 Sep

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20						X	0-29 muddy sand
20–40							LC: 29-115 Mud w sand branch thin bioturb
40–60		0		4			
60–80				4			
80–100				4			
100–120							LC: Sharp 115-base Sand, DR brown
120–140							Weak strat.



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
						Logged By: GG; Date: 20Sep
	3		2			Sand, DK brown 0-16
	0		4			24-55 Mud w Sand → blue + brown discoloration
			4			LC: Sharp.
	3		2			55-base Sand
	3					
			2			

400-U1607A-42R-CC-A | SHLF12742121

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: GG	Date: 20 Sep
0–152				?			Comments: 0–base sand Dk, brn	

PAL

400-U1607A-43R-1-A | SHLF12742481

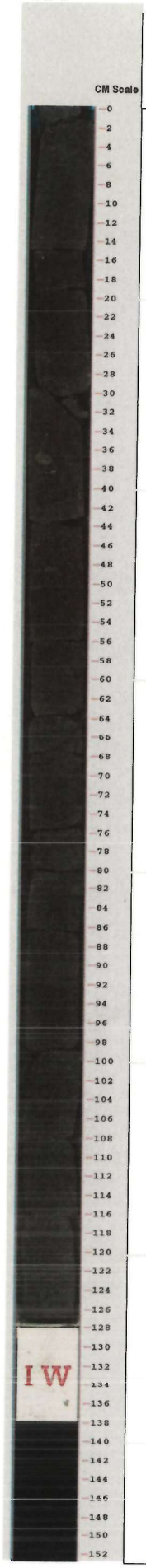
Logged By: Sandra

Date: 9/20/2023

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152				3	M	Ø	0-139 cm: Dark greenish grey bioturbated sandy mud pyritized burrows, e.g. 98 cm, 120 cm pyrite in the matrix as well

Logged By: Sandra

Date: 9/20/2023



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
						0-64 cm: same as S.1.
						37-38 cm: pyritized burrow, shell fragments also at 46-51 cm
			3			
						64 cm: gradational contact some stratification!
						64-129 cm: Very dark greyish brown muddy sand (fine)
			1			dispersed coarse sand grains



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
			1		
			3		
			1	M	

Logged By: Sandra

Date: 9/20/2023

Comments

0–140 cm: Dark greenish grey bioturbated sandy mud, grading down to mud, then sandy mud

0–54 cm: sandy mud

54–126 cm: mud

126–140 cm: sandy mud

pyritized burrows throughout

Ø

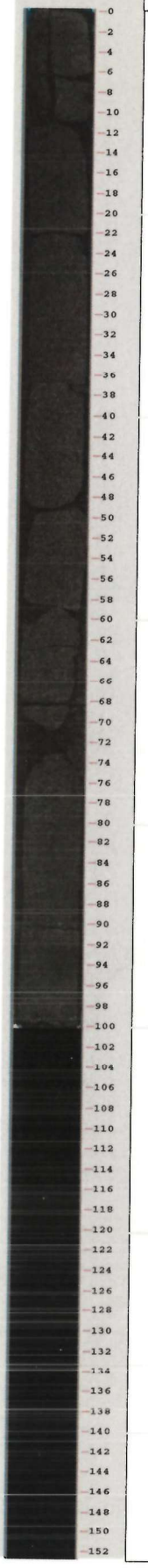
vertical and horizontal burrows

140–145 cm: Very dark grey fine muddy sand, massive

400-U1607A-43R-4-A | SHLF12742571

Logged By: Sandra

Date: 9/20/2023



Comments

0-79 cm: Very dark grey muddy fine sand dispersed coarse sand grains

79-101 cm: Olive grey sandy mud, uncommonly bioturbated

400-U1607A-43R-CC-A | SHLF12742601

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: Sandra	Date: 9/20/2023
0–152							Comments: 0-6cm: very disturbed sandy mud, rubble	

PAL

Logged By: Libby Ives

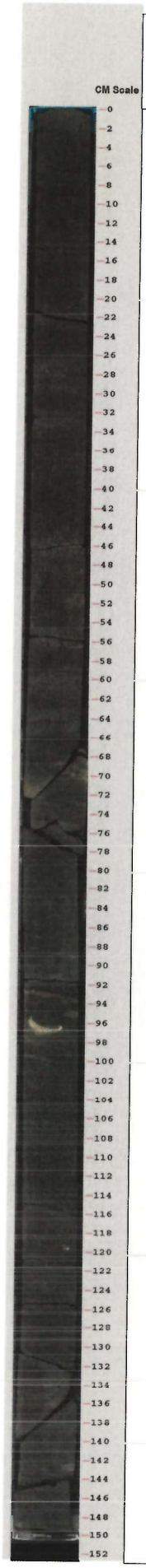
Date: 20 Sep 23

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–8		fall-in					0-8 cm : fall-in
8	8 cm						
10–20		2 ↓		~~3~~ 4	?		Dk brown sandy mud ↳ mostly ~~fine~~ si coarse silt + vf sand
60							60 cm
62–80							Med brown ~~sandy mud~~ muddy sand. Same as above, but lighter in color
100–120							does not fizz even a little bit

Logged By: LIves

Date: 20 Sep 23

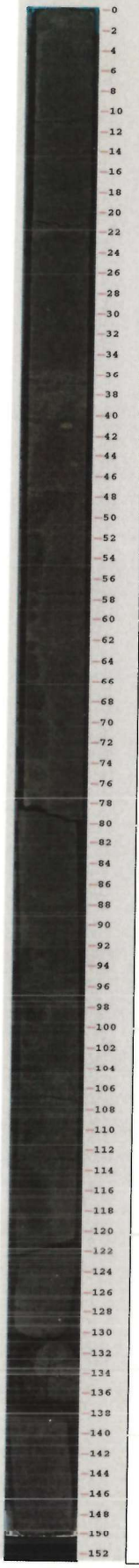
CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20		1 frac.		4			~~tx~~ med brun ~~g~~ muddy sand
20–40							26-36 cm high > fault w/ slicken lines
40–60		6					grad @ 57 cm med grayish brun muddy sand
60–100							burrows pyritized near base
100–120							grad @ 128 cm
120–140							med gry



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
	1 frac.		4			med gry muddy sand ↳ bioturbated, no clear structures ↳ some pyrite
			3			— grad @45cm med gry muddy sand → mixture of dk grey, black, + tan → doesn't fizz ↳ laminations disturbed, but visible ↳ pyrite fill common ↳ shells present 67-78 cm high angle faults w/ slickensides and 131-146

Logged By: L Ives

Date: 20 Sep 23



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: L. Ives	Date: 20 Sep 23
	(1) frac.		(3)			Comments	

0 - 121.5: same as bottom of 3A

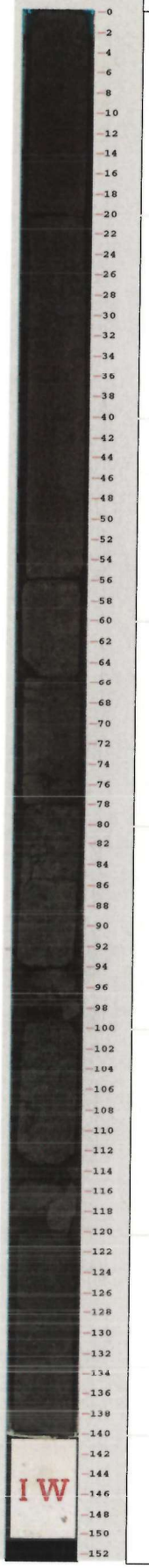
122

(2)

(4)

Sharp at 121.5

DK brown muddy sand, faulted



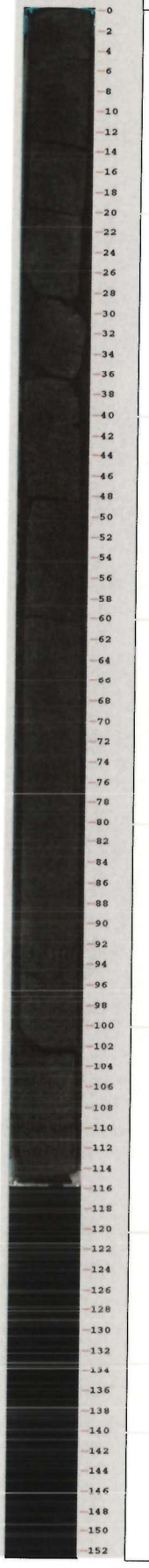
Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: L Ives	Date: 20 Sep 23
			(4)			Comments	

0-end:

DK brwn muddy sand

↳ burrows actually kind of visible in this one. but filled w/ sediment

↳ mostly well-sorted, but rare granules are present

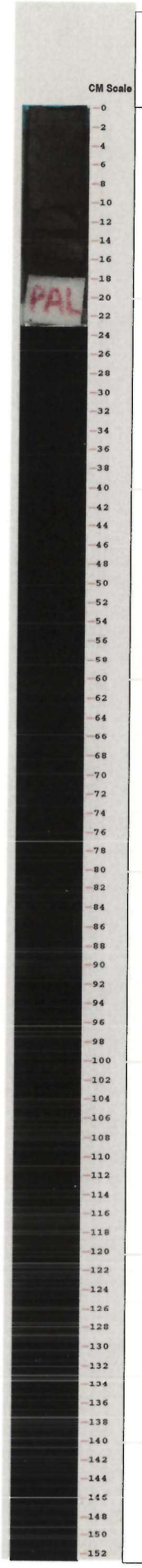


Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: L. Ives	Date: 20 Sep 23
						Comments	

(4) As above (5A)

(3) c72 - 79 stratification visible

(2) c 106 - end stratification visible



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: L Ives	Date: 20 Sept
			4			Comments: AS 6A	

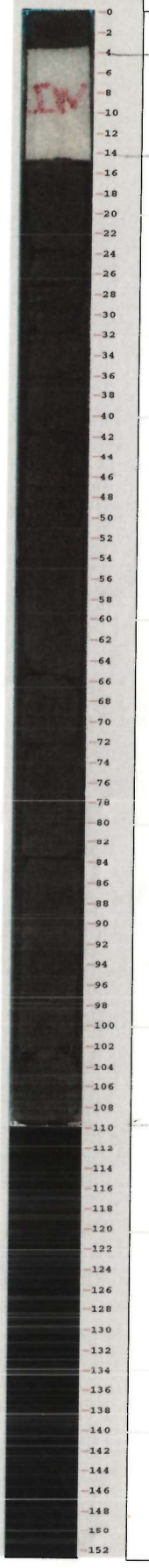
Logged By: BR

Date: 9/20/23

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152		FI		3			Moderate (fractured) disturbance (w/ exception of Fall-In from 0–7cm)
							0–147: dark brown bioturbated muddy (?) sand; the sand is vf to lf in size and moderately sorted (as far as I can see)
							– weakly stratified throughout
							– very few outsized grains
							64: lone elongate agglutinated foram
							129: subhorizontal feature w/ inclined, wrinkly laminations and some shelly bits Burrow? some type of mat? → probably a burrow fill

400-U1607A-45R-2-A | SHLF12743321

Logged By:	Date:
BR	9/20/23



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
			3			Slight disturbance (fractured) throughout
	no	lithology WRND	sample			
			3			0-48: dark brown, bioturbated muddy sand w/ weak stratification
						48-end: dark brown sandy mud, weakly stratified and burrowed -relatively more sorting of material inside vs. outside burrows (was it interlam'd?)
						base of section

400-U1607A-45R-3-A | SHLF12743351

Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10

Logged By: BR

Date: 9/20/23

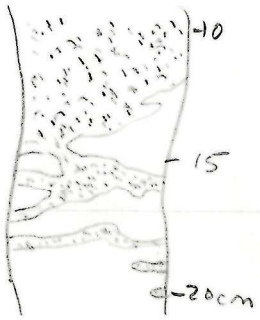
CM Scale

Comments

Slight (fractured) disturbance throughout

3

0-16: dark brown muddy sand w/ relatively sharp (some burrowing) lower boundary

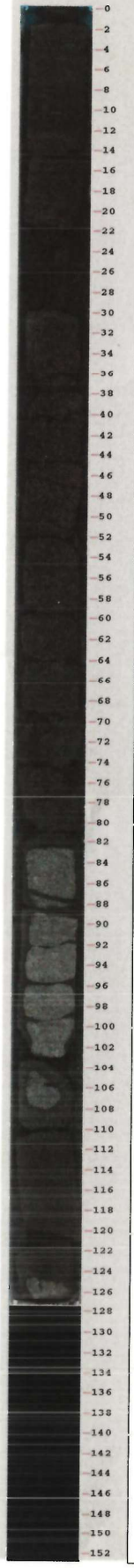


16-35: sandy mud dark-brown, bioturbated a few outsized grains (similar lower contact as above)

35-101: ~~muddy sand~~, ~~dark~~ -brown w/ weak stratification ~~and~~ / plenty of burrows filled w/ very fine pyrite and silt (?)

101-end: medium-brown sandy mud w/ weak stratification

400-U1607A-45R-4-A | SHLF12743381



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: BR	Date: 9/20/23
						Comments	

3

recovered →

moderate (fractured) disturbance throughout

0-13: sandy mud (continuation of base of Sect 3) ¡SHARP CONTACT!

13-82: muddy sand, dark brown, weakly stratified; some outsized vc sand to granules

82-110: cemented sandstone interval (sharp base)

110-end: dark brown sandy mud w/ sand-filled burrows

400-U1607A-45R-CC-A | SHLF12743411

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: BR	Date:
						Comments	

CM Scale

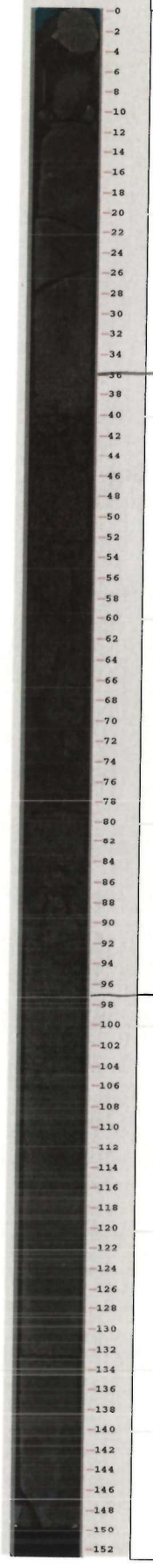
PAL

dark brown sandy mud
(continuation of Sect 4)

400-U1607A-46R-1-A | SHLF12743681

Logged By:

Date:



400-U1607A-46R-2-A | SHLF12743711

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

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

slight

3

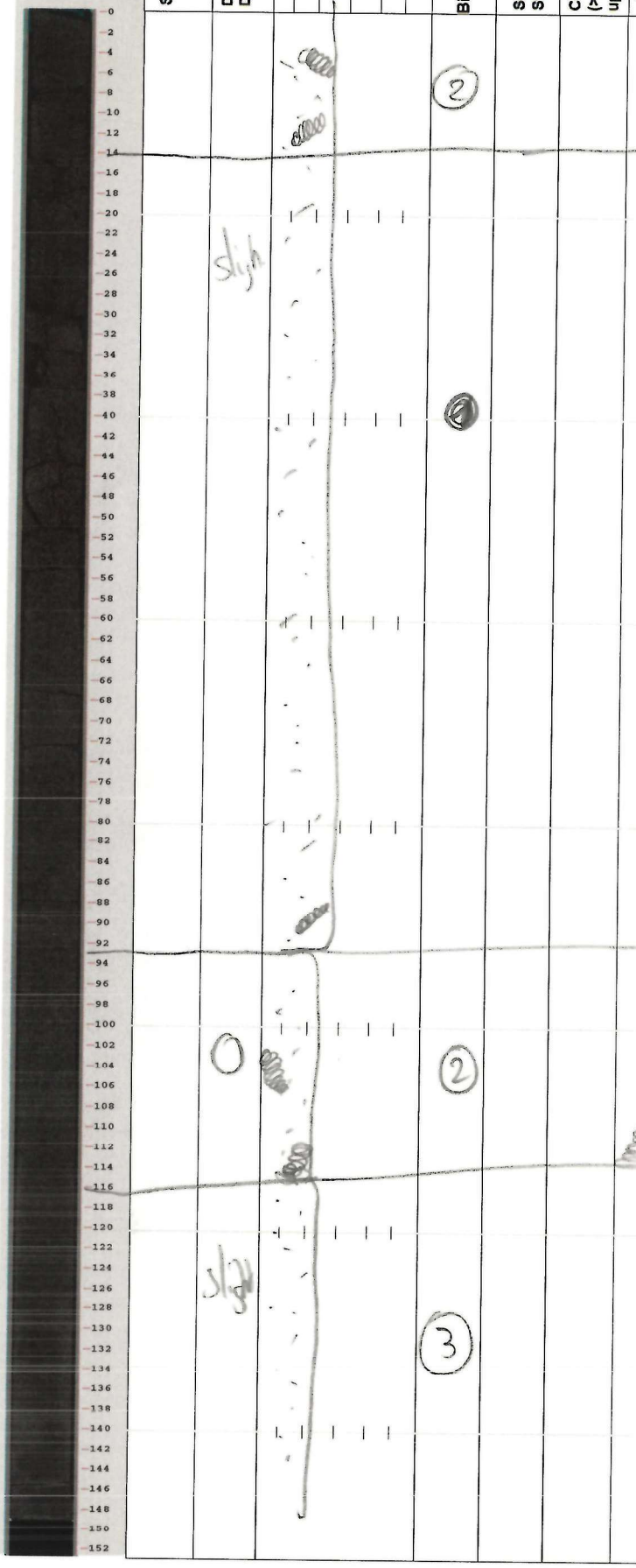
95

slight

3

medium grey.
mud.
with rare shells
disp clasts
pyritized burrow
with sand pockets.
thin laminae?

sandy mud
stratified laminae
pyritized burrow
rare shell debris.



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
			2			with bioturb dark grey brown muddy sand
	slight		0			dark grey brown muddy sand with disp clast (grain size)
						bioturbate contact
	0		2			sandy mud dark grey brown with disp clasts (grain size)
						bioturbated contact
	slight		3			medium grey sandy mud thinly lam. pyritized burrow + rare shell fragments with disp clasts (grain size)

Logged By:

Date:

400-U1607A-46R-4-A | SHLF12743771

Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	

CM Scale

dark grey brown. mud.

pyritized burrows

pyritized shell.

disp clast.

with sand laminae

Slight

3

1

bioturbated contact

muddy sand

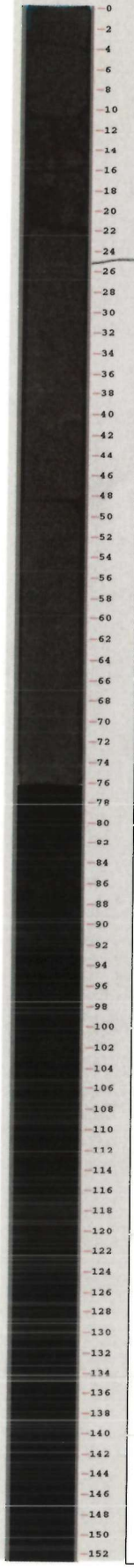
dark grey brown.

Slight

3

IW

Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
						Logged By: / Date:
	slight			1		muddy sand dark gray brown burrow
	25					bioturbated contact
	slight			3		sandy mud dark gray brown thinly lamin burrows
						0 clast 0 shell



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
	0			(2)		Comments: sandy mud dark grey brown disp clasts (sand size). burrows.	

CM Scale

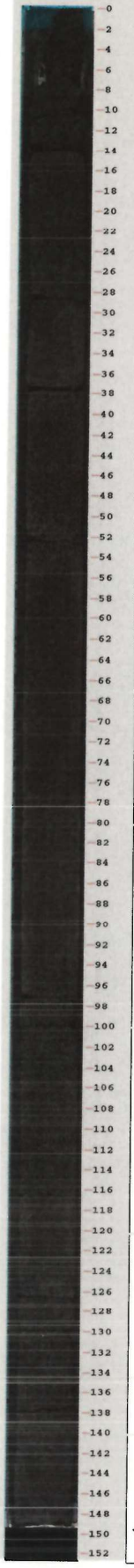
PAL

400-U1607A-47R-1-A | SHLF12744121

Logged By: Sandra

Date: 9/20/2023

Comments



8-54cm: Very dark grey muddy fine sand, massive to crudely stratified, sparsely bioturbated

contacts are quite sharp compared to cores above

54-94cm: Dark grey sandy mud; sand component contains black grains uncommonly bioturbated

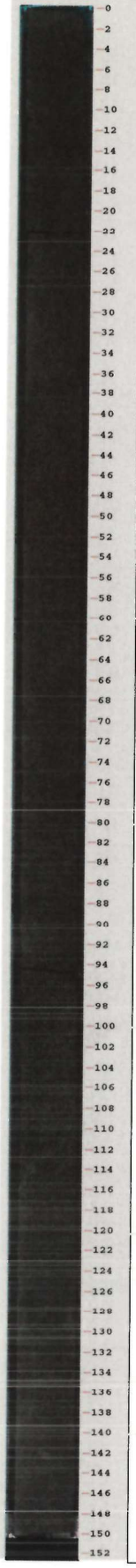
pyritized burrows 62-65cm

94-150cm: Very dark grey muddy fine sand, sparsely bioturbated w/ horizontal burrows

grading down to more muddy

Logged By: Sandra

Date: 9/20/2023



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
	1		1			0–68 cm: Dark grey sandy mud, sparsely bioturbated, massive
	1			M	∅	
						irregular boundaries
						68–123 cm: Dark grey muddy sand, many black grains, fine and coarse sand size
		D				
		S				
						123–138 cm: sandy mud
			1			

400-U1607A-47R-3-A | SHLF12744181

Logged By: Sandra

Date: 9/20/2023

Comments



0-103cm: Dark greenish grey to dark greyish brown mud (gradual color change down) pyritized burrows black (shale?) grains dispersed throughout shape of larger grains

103-122 cm: Dark greyish brown sandy mud

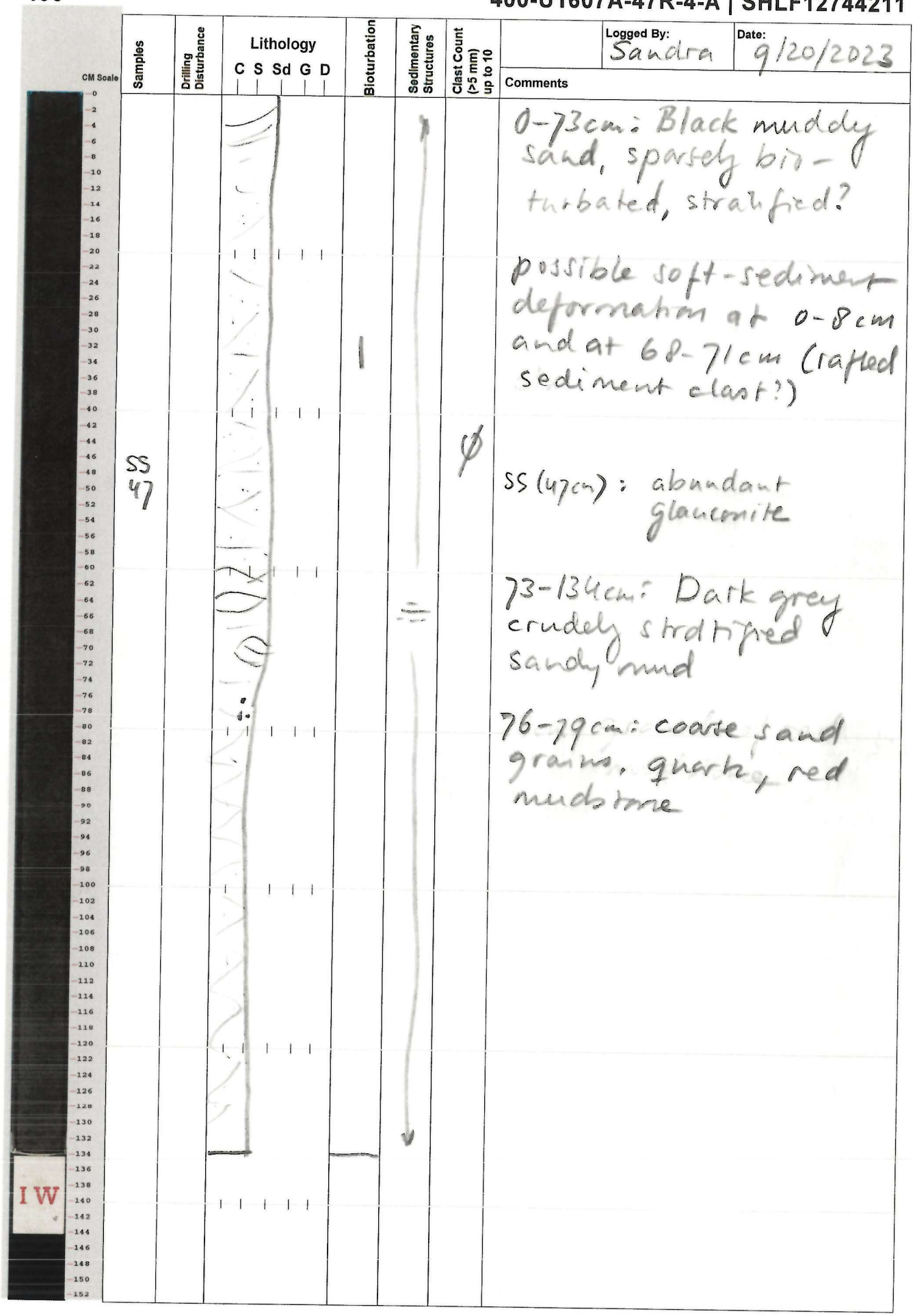
70-77cm: fault/fracture

84-85cm: agglutinated foram bed?

122-150cm: Black muddy sand, black grains are dominant (probably glauconitic mudstone)

108-110cm: Brown laminated pyritized clast (organic?)

400-U1607A-47R-4-A | SHLF12744211



Logged By: Sandra

Date: 9/20/2023

Comments

0-73cm: Black muddy sand, sparsely bio-turbated, stratified?

possible soft-sediment deformation at 0-8cm and at 68-71cm (rafted sediment clast?)

SS (47cm): abundant glauconite

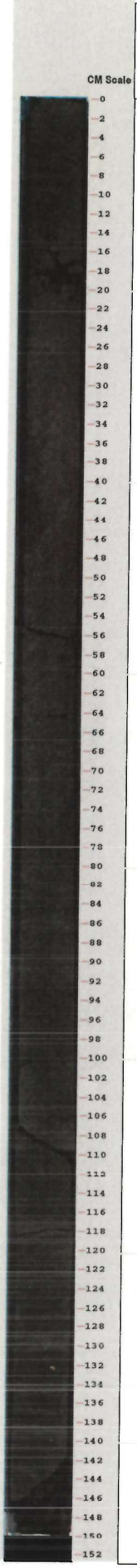
73-134cm: Dark grey crudely stratified sandy mud

76-79cm: coarse sand grains, quartz, red mudstone

400-U1607A-47R-5-A | SHLF12744241

Logged By: Sandra

Date: 9/20/2023



Comments

0-82cm: Dark grey sandy mud, crudely stratified and sparsely bioturbated

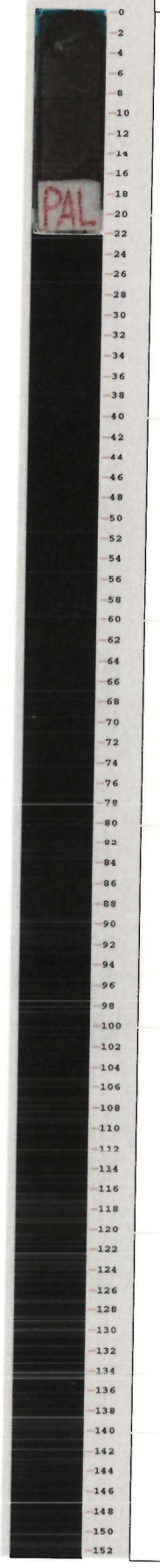
82cm: irregular (bioturbated?) contact

82-150cm: Greyish brown mud, uncommonly to commonly bioturbated

103-150cm: commonly bioturbated with mm-scale horizontal burrows

-pyritized burrows

400-U1607A-47R-CC-A | SHLF12744271

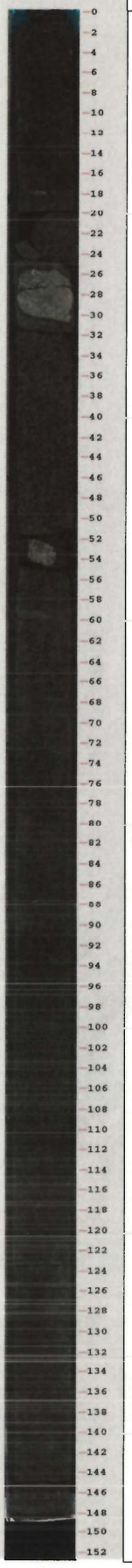


Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: Sandra	Date: 9/20/2023
			4	M	Ø	Comments: Same as S.5. end. Slickensiden at top	

400-U1607A-48R-1-A | SHLF12744811

Logged By: BR

Date: 9/20/23



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
			3			Slight (fractured) disturbance (some intervals may be moderate)
						0–19: dark-brown bioturbated mud
		C1				19–26: dark-brown bioturbated muddy sand
						26–31: cemented interval (C1) (muddy sand)
						31–52: dark brown bioturbated muddy sand w/ weak stratification
		C1				
						52–56: cemented interval (C1) (muddy sand)
						56–94: dark brown, bioturbated weakly stratified muddy sand (flaser contact; sharp, irregular)
						94–end: medium-brown bioturbated mud

400-U1607A-48R-2-A | SHLF12744841

Logged By:	Date:
BR	9/20/23

Comments

slight (fractured) disturbance throughout

0-17: contamination of mud from base of Sect. 1

17: FAULT

17-107: dark brown, bioturbated muddy sand; weakly stratified

107-end: grey-brown-dark bioturbated sandy mud stratified

144: FAULT

400-U1607A-48R-3-A | SHLF12744871

Logged By:	Date:
BR	9/20/23

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152				3			Slight (fracture) disturbance throughout 0–10: gray-brown-dark bioturbated sandy mud 10–60: gray brown-dark bioturbated mud w/ sand (gradational LC) 60–end: gray-brown-dark sandy mud; bioturbid + wrinkly stratified w/ bands of more/less burrows (e.g. 91–114) 77: FAULT Some burrows w/ very fine pyritization base of recovery

IW

400-U1607A-48R-4-A | SHLF12744901

Logged By:	Date:
BR	9/20/23

Comments

Slight (fractured) disturbance

0-82: dark brown, bioturb'd muddy sand (except for 17-19 and 30-41, which are grey-light laminated intervals

one grain up to 4mm, w/ some sand

82-100: medium-brown bioturbated, weakly stratified sandy mud

100-end dark brown bioturb'd muddy sand; weakly stratified

CM Scale

Samples | Drilling Disturbance | Lithology (C S Sd G D) | Bioturbation | Sedimentary Structures | Clast Count (>5 mm) up to 10

400-U1607A-48R-5-A | SHLF12744931

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: BR	Date: 9/20/23
						Comments	

CM Scale

Slight (fractured) disturbance

dark-brown bioturbated muddy sand

Weakly Stratified, esp. 40-60 cm

base of section

400-U1607A-48R-CC-A | SHLF12744961

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: BR	Date:
0–152							Comments: continuation of base of Sect. 5	

PAL



CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20		1		②		0	mud dark grey brown thin laminae. pyritized burrows.
21							
22–26		3					dark grey brown muddy s-d.
27							
28–32		1					dark grey brown s-dy mud
34–152		0		③			muddy s-d dark grey brown with disp clasts → very black s-d. ↳ + greenish grains } = glauconite ? burrows

Logged By:

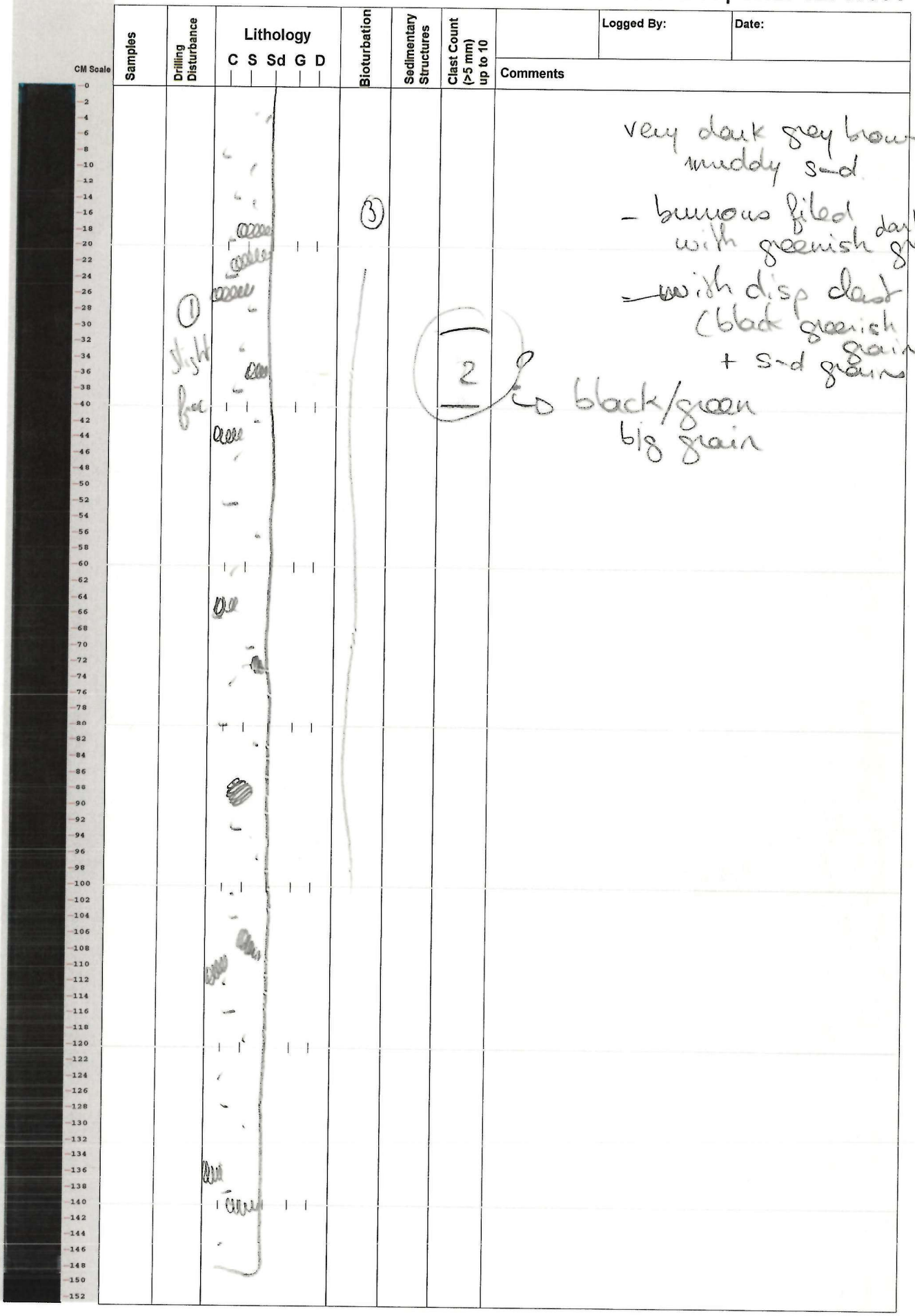
Date:

400-U1607A-49R-2-A | SHLF12745381

Logged By:

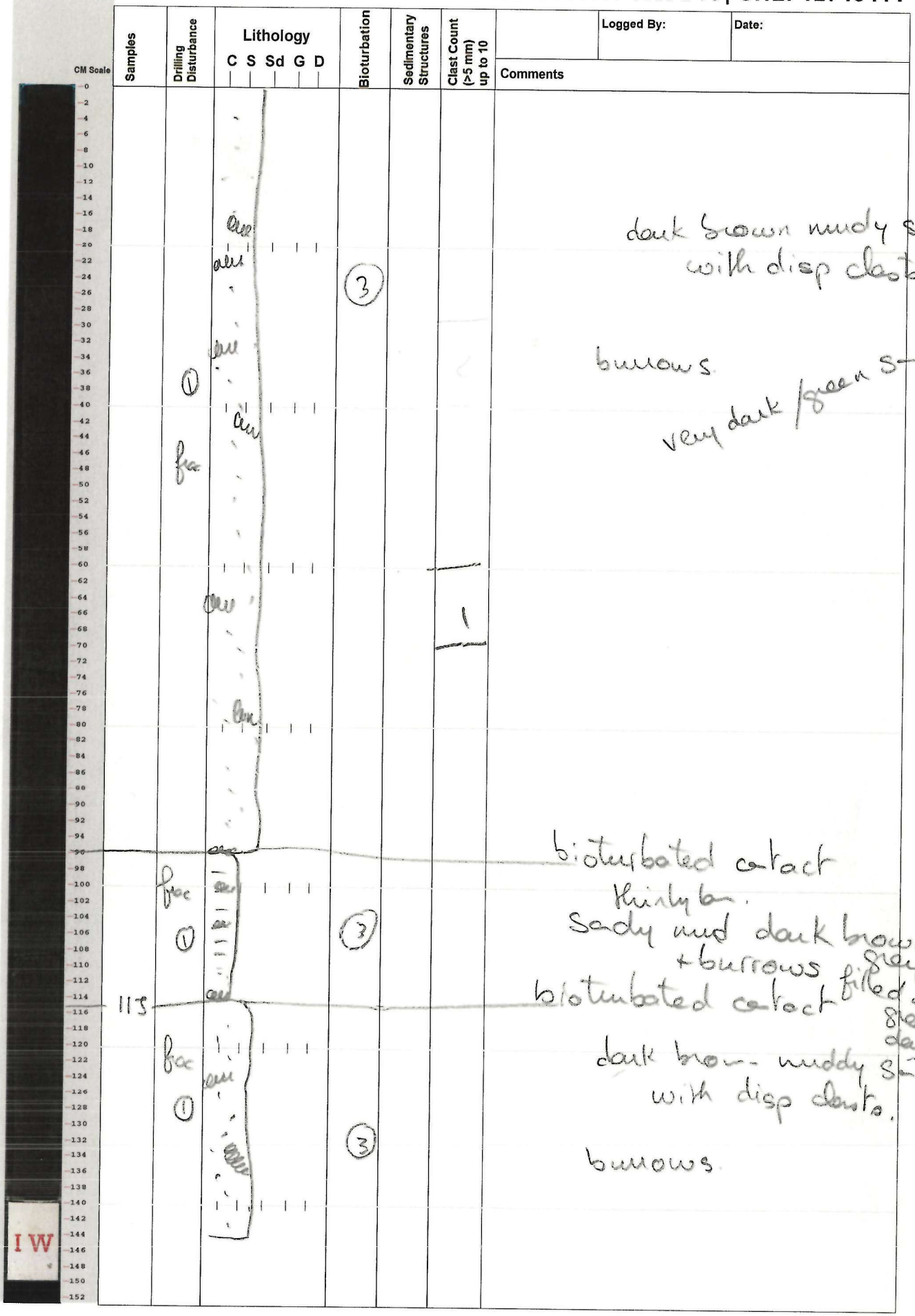
Date:

Comments



400-U1607A-49R-3-A | SHLF12745411

Logged By:	Date:
Comments	



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
0–152		slip ①		③		

Logged By:

Date:

Comments

muddy sand dark grey brown

very dark/green sand

with disp clasts

burrows.



CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0							
2							
4							
6							same as sect^n 4
8							
10							muddy sand dark grey bro-
12							
14							
16							
18							
20		1		3			
22							very black/green sand.
24							
26							
28							with disp clasts
30							
32							
34							
36							
38							
40							
42							burrows.
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							

Logged By:

Date:

Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	

CM Scale

dark grey muddy sand
black/green sand
burrows.

(1)

(3)

46a

cemented concret
(calcite cement)
to glauconite in it

400-U1607A-50R-1-A | SHLF12745931

Logged By:	Date:
GG	21 Sep

Comments

0-base sand

Dark green (black)

Glauconitic-f sand size grains

colors black v. quickly

some larger grains

- < 5mm

Cross stratification — w glauconite as sands

laminae - mm scale

in ~cm beds

wavy laminae <1cm

= laminae

bioturbated - sparse to moderate

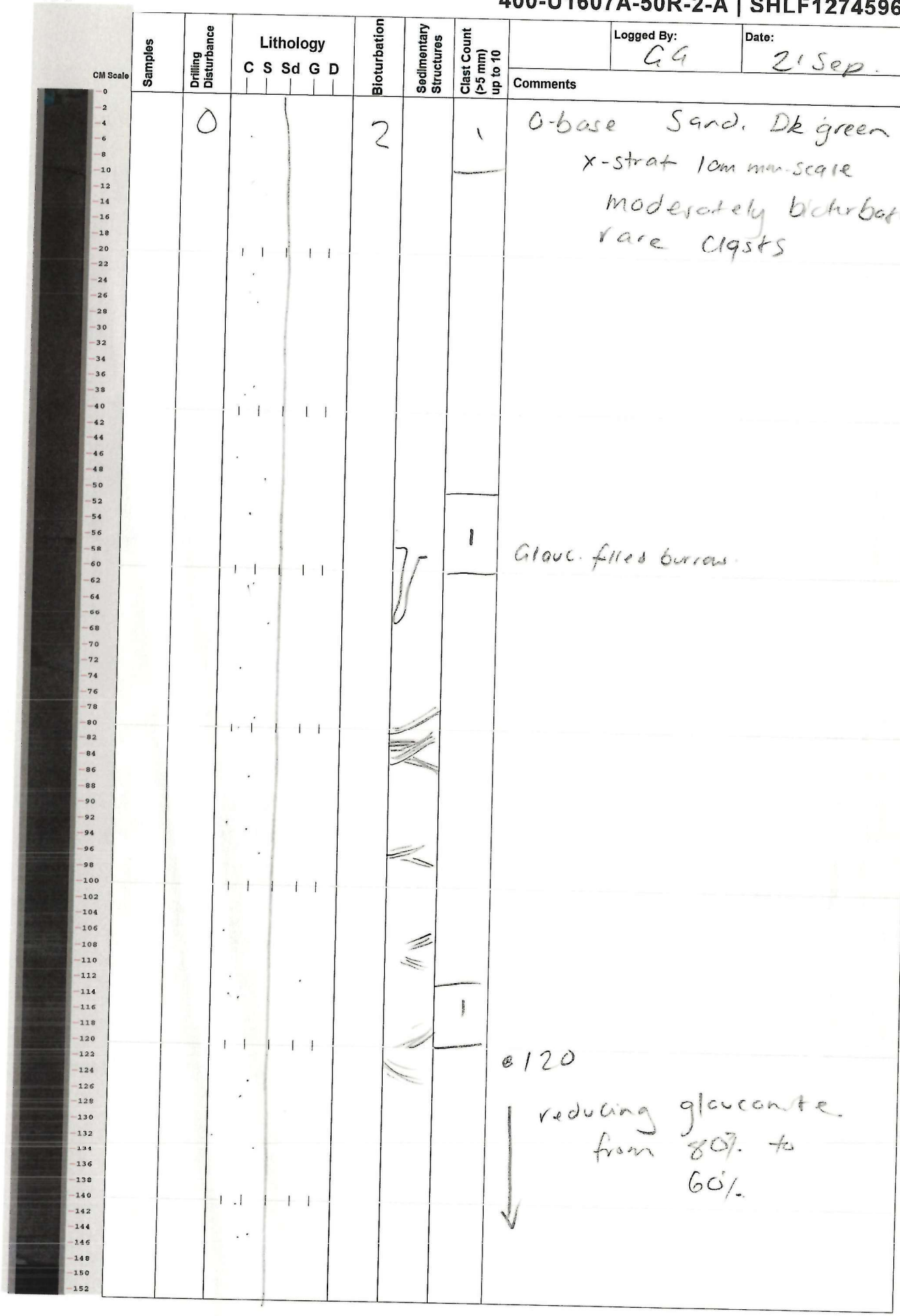
1cm

2cm

400-U1607A-50R-2-A | SHLF12745961

Logged By:	Date:
GG	21 Sep.

Comments

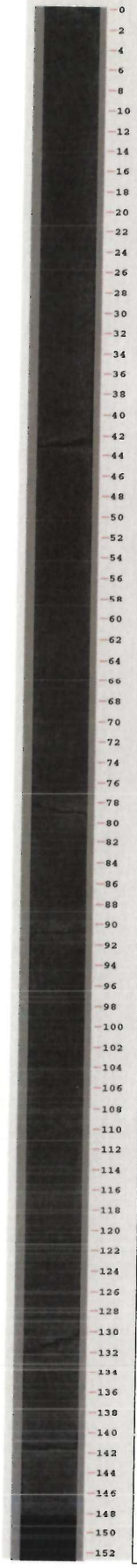


Logged By: GG

Date: 20 Sep

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152		D		2		X	0-base Sand Dk brownish green. wavy lamnae 40-88 reduced glauconite from 60 to 40% Strat more apparent increasing large glauconite grains. 5% (from 1% in Section 1+2) interrupts bedding. e.g @ 65cm. 88- increasing glauconite. to 60%
				2			
				2			
				2			

Logged By:	Date:
GG	21 Sep



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20				3	X	X	0-base Sand Dk green wkly stratified increased bioturbation mottled in xray large scale still large grains
20–40							
40–60				3			
60–80							
80–100				3			
100–120							
120–140							
140–152							

400-U1607A-50R-5-A | SHLF12746051

Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: GG	Date: 21 Sep

CM Scale

Comments

0-base Muddy sand
med greenish brown

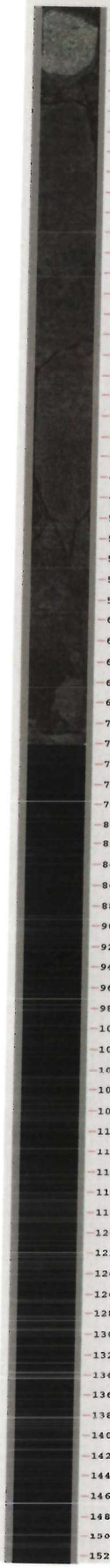
mud drapes
in sand & glauconite

Cross stratification
↳ Suggestions of
Clearer in xray but
Still faint
wavy laminae

lost large grains
of glauconite

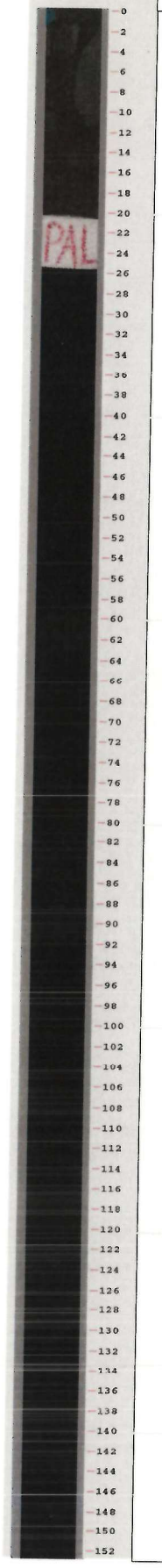
IW

Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
	0					0-63 Muddy sand
						Dk greenish brown
			2			fine sand w
						glauconite
						deposited w glauconite
						Stratified -
			2			x-lam + wavy lam
			4			LC: Sharp ~~ess~~ nearly burrowed
						burrows of glauconitic filled (fine grained up to 5cm above contact
						63 - 111 Mud, Light gray
			4			burrows of glauconitic sands above up to 10cm beneath contact
	X					
						Lightly concreted
						moderately concreted
			4			
						LC Sharp?
	X					111 - base Muddy sand
						Light whitish yellow
						'clean' qtz rich sands
			?			wavy bedding



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
						Logged By: GG; Date: 21 Sep
						0-8 Sand, Light grey Concreted LC: sharp
						8-base Sand, Dark green
						grad - 5cm
						38-43 Lighter - reduced glauconite grad - 5cm
						dispersed clasts

400-U1607A-50R-CC-A | SHLF12746141



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: GG	Date: 21 Sep
						Comments	

Sand, dk green glauconitic fine sand

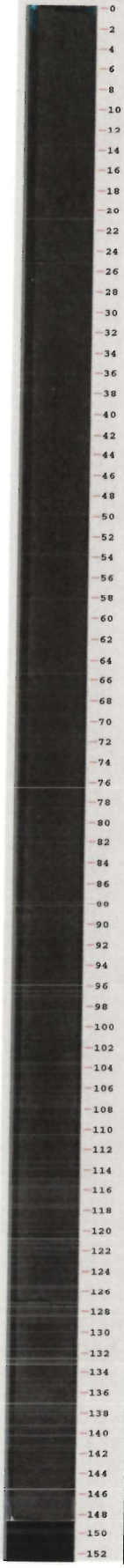
400-U1607A-51R-1-A | SHLF12746411

Logged By:	Date:
TF	9/21/23

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152				3		0	Very dark green-black 0-base: very fine muddy sand - Large, discrete burrows filled w/ lt brown mud. - burrows are either nearly vertical or horizontal - whiffs of cross-strat * Sand is glauconite, qtz,

Logged By:	Date:
TF	9/21/23

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20				3			v. dark grn - black 0-125 v. fine muddy sand - dispersed coarse sand - discrete horiz burrows w/ dark mud - some dark patches might be reworked clastss
20–40							
40–60							
60–80							
80–100							
100–120							
120–126							125-base; sandy mud. near-horizontal burrows that are sand-filled + have glauc-rich halos
126–140	SS			2			sand conc. in patches + lenses scattered coarse qtz sand
140–152							



CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152				3			DK brown muddy fine sand 0-26 looks faintly laminated
							26-44: sandy mud
							large cm-scale burrows filled w/ black mud (glauc?)
							- qtz granules + coarse sand,
						2	
							44-110: as 0-26
				2			
							110 - base: sandy mud w/ large burrows w/ halos
							- coarse sand (qtz)
							- tiny fossils frags
				2			- stratification

Logged By:

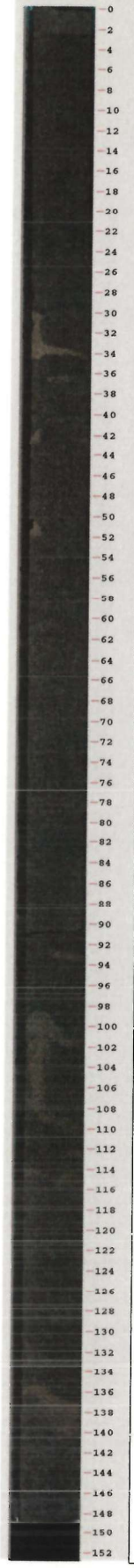
Date:

400-U1607A-51R-4-A | SHLF12746501

Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			3		1		

Comments

dk brown v. fine muddy sand
- prominent 2-5 cm burrows.
  - filled w/ $CaCO_3$ - light brn.
  - glauc halos
  - re scavenged by chondrites
- scattered granules + fossil debris



Rescan

400-U1607A-51R-5-A | SHLF12746531

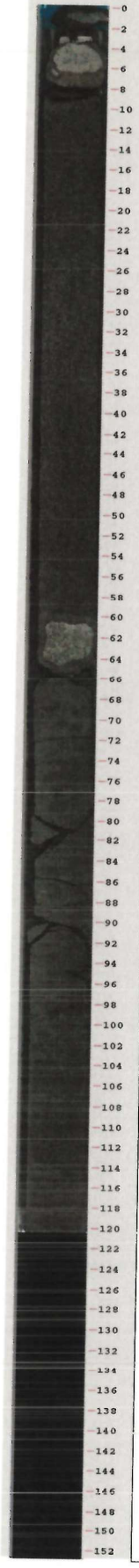


CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20				2			muddy sand dark brown - less bioturbation - stratified
20–40							56-65cm - $CaCO_3$ cemented horizon
40–80							
80–100							Large, black burrows
100–120							
120–140							

400-U1607A-51R-6-A | SHLF12746561

Logged By:

Date:



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
			2			0-66; dk. brown muddy v fine sand -glauc. $CaCO_3$ cemented intervals 0-9 cm 60-66 cm brown transitions into enclosing sediment (over ~1cm)
		surface				
		burrows filled w/ overlying sed				66-base; gray mud - scattered micro fossils - 1 bivalve - pyritization of some fossils
						C slickensides along fractures ~86cm



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20			x	2			σ-base; dk brown green muddy sand u 6m continues from S. 6. (sandy mud?) -strat
20–40							A few black burrows
40–60							59-65: $CaCO_3$ cemented
60–80							
80–100							
100–120							
120–140							
140–152							

Logged By:

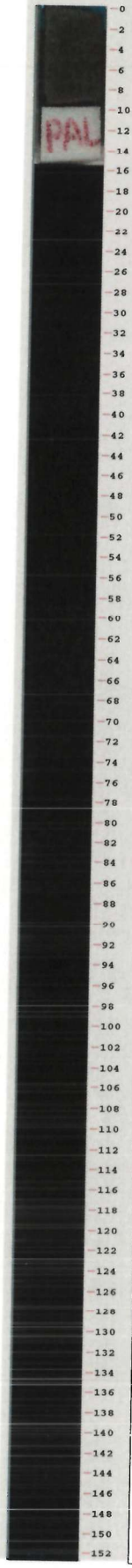
Date:

400

400-U1607A-51R-CC-A | SHLF12746621

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	

Sandy mud dk gray
sand-lined burrow
scattered coarse gtz



400-U1607A-52R-1-A | SHLF12746981

Logged By: ET

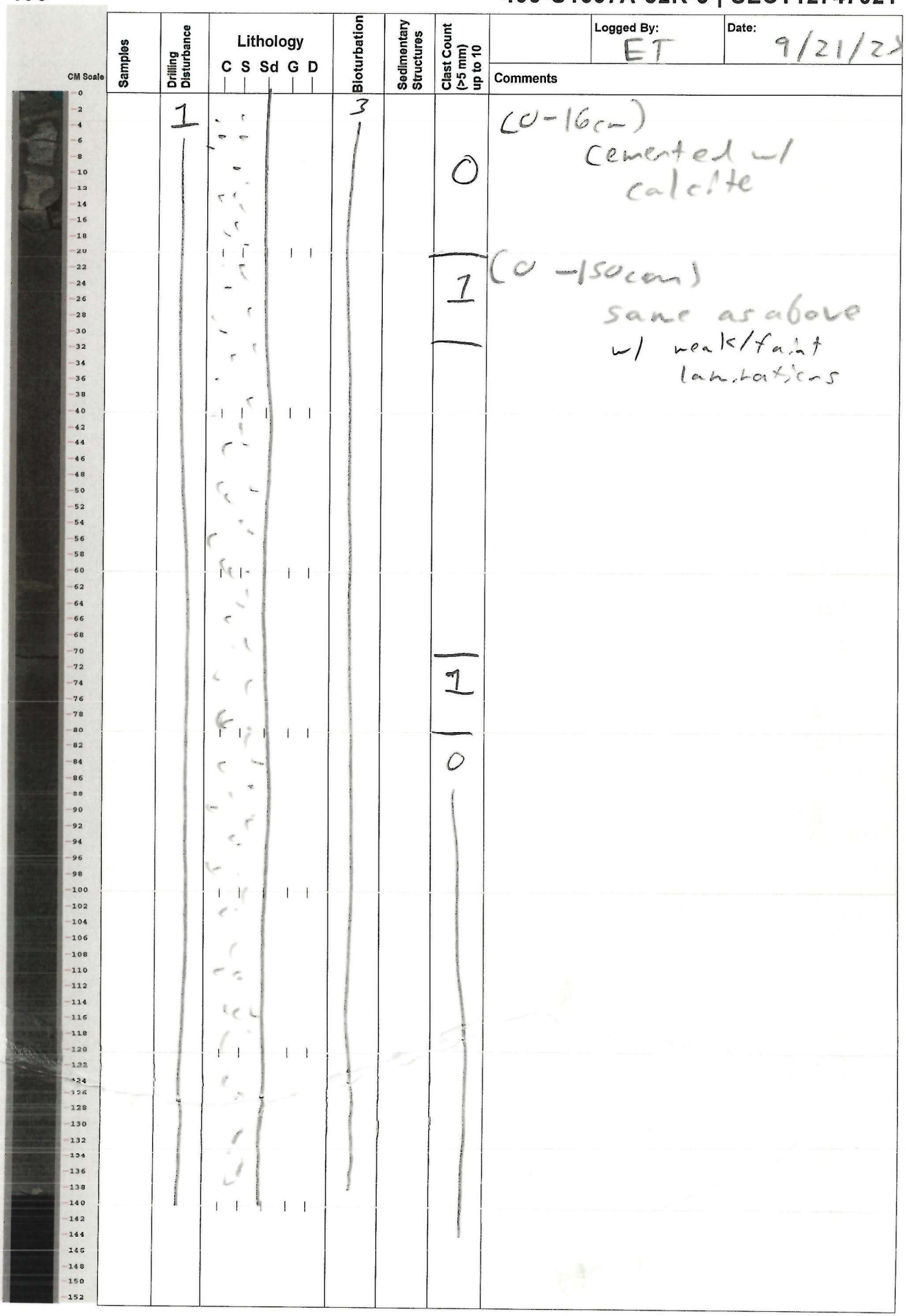
Date: 9/21/23

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152		1		3		2	(0-28cm) muddy sand dark brown with dispersed clast
						2	
						1	→ granite/gneiss
						0	(28–150cm) sand of varying colors (28-82) dark greenish grey
							(82–94cm) medium greyish brown
							(94–150cm) dark greenish grey
						1	Pyrite burrows throughout (28–150cm) glauconite burrows

Logged By: ET

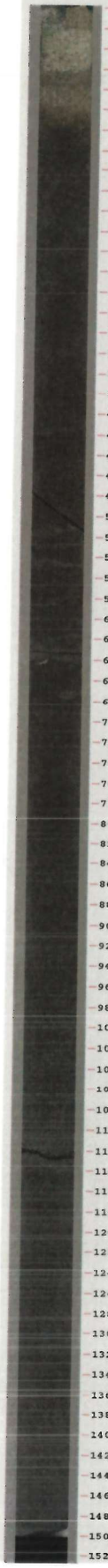
Date: 9/21/23

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152		1		3		0 1 1	(0-27cm) same as above dark greyish green sand glauconite and pyrite burrows (27-88cm) sand slight increase in coarseness large 4mm. pyritized burrow glauconite burrows dark grey (88-148cm) dark greyish green sand → burrows glauconite and pyrite burrows

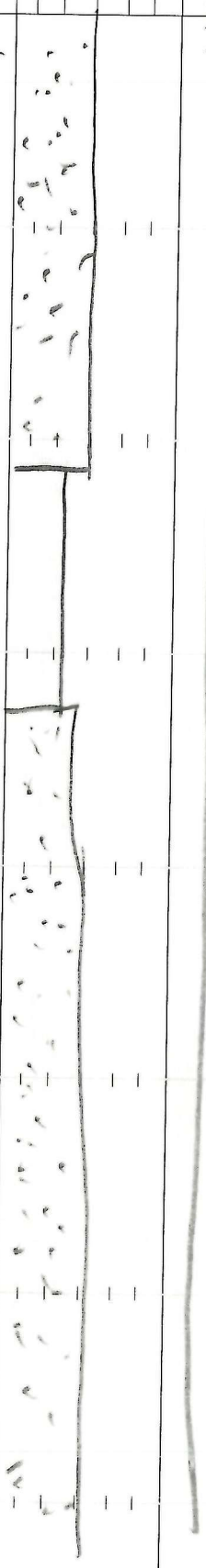

CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
ET
Date:
9/21/22
Comments
1
3
0
1
1
0
(0-16cm)
Cemented w/ calcite
(0-150cm)
same as above w/ weak/faint laminations

Logged By: ET

Date: 9/21/23



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
	1		3		0



Comments

(0-12cm)
Same as above calcite cement
hard contact at 7cm

(12-41cm)
sand
dark greenish grey
with pyrite and glauconite burrows

(41-64cm)
Sandy mud
with weak/faint laminations
dark brown
with pyrite

(64cm-150cm)
dark greyish brown sand
with pyrite and glauconite burrows
some burrows have white sand grains surrounding them

400-U1607A-52R-5-A | SHLF12747101

Logged By: ET

Date: 9/21/23

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152		1		3		0	(0–13cm) same as above (13–20cm) same calcite cement (20–70cm) same w/o calcite cement (70–112cm) muddy sand medium greyish brown (112–137cm) sand dark greyish brown w/ pyrite and glauconite burrows
						2	
						0	
						1	

IW

400-U1607A-52R-6-A | SHLF12747131

Logged By: ET

Date: 9/27/23

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152		1		3		0	(0-8cm) same as above calcite cmt (8cm – 89cm) sand dark greyish brown w/ pyrite and glauconite burrows (89-103cm) medium grey sand with glauconite burrows (103 – 138) w/ medium grey sandy mud some glauconite (115-117cm slickenslide

400-U1607A-52R-7-A | SHLF12747161

Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
	2		3		0
	1				

Logged By: ET

Date: 9/21/23

Comments

(0-41cm)
mud
dark grey
pyritized burrows
burrows w/
white sand grains
surrounding them

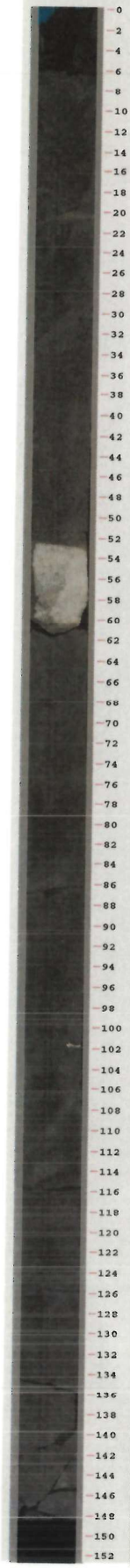
(41-83cm)
sand
dark grey/red brown
with pyrite
not as much as
earlier sections

(9-25cm)
slickensides along
core breaks

400-U1607A-53R-1-A | SHLF12747611

Logged By: AG

Date: 21 Sep.



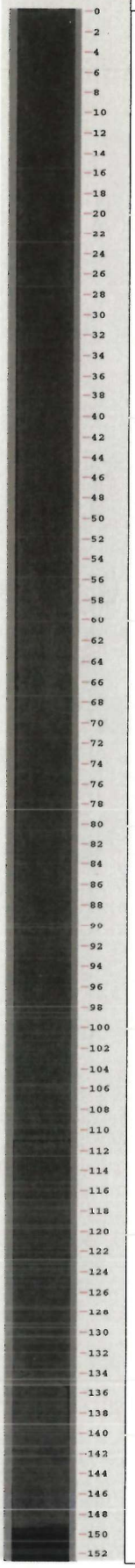
Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
	0					0-72 muddy sand dark greyish green
			2	~		Burrows creamy brown Some glauconite. ~ 50%
						52-61 concretion
C						LC: grad ~ 10cm.
				~		72-base mud w sand grey-(brown) w dispersed clasts Bioturbated w qtz clasts 2-5mm + shell frags. weakly stratified?
			4			
						much less glauconite.
			4			fining down → v fine ~ clay-rich
X						

Logged By: CG

Date: 21 Sep.

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152			gl	4			0–11 mud Bioturbated w disp. clasts large glove inside LC: Fault (Sharp
				2			11–80 muddy sand brown. burrows w glauc Faint wavy. Strat beds ~2cm
				2			LC: grad 100cm
				4			80–134 Mud w Sand Bioturbated w disp clasts <5mm Qtz. + Shell frags. Faulted
				4			
				4			

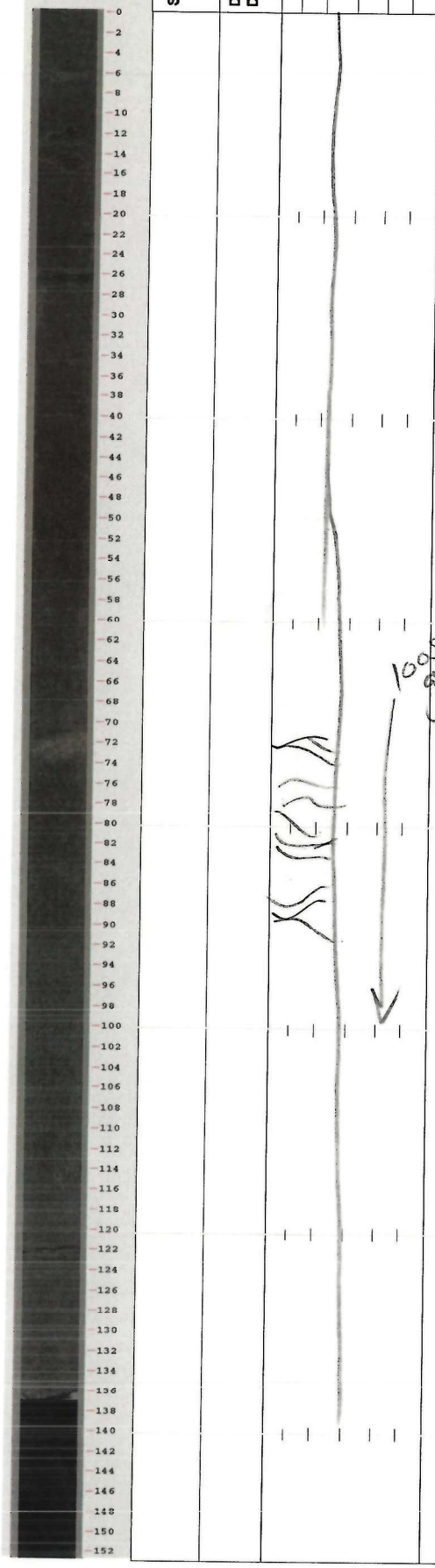
Logged By:	Date:
GG	21 Sep.



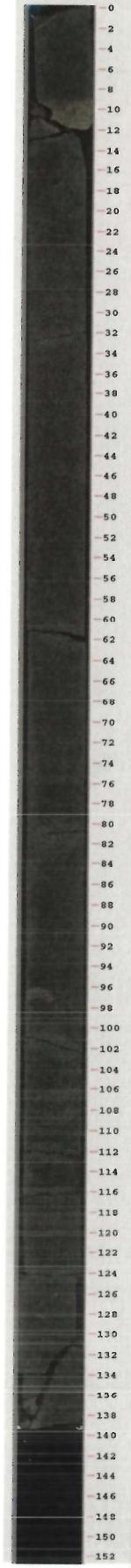
CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0							0 - 98 muddy sand
2							glauconite
4							
6							
8							
10							
12							
14				2			individual burrows
16							
18							
20							weakly strat
22							
24							
26					⊖		Some coarser sand
28							lenses w
30							
32							
34							shell frag
36							
38							
40							
42							
44							
46							
48							
50							
52							
54							
56				2			
58							
60							
62							
64							
66							
68							
70							
72							
74							
76							
78							
80							
82							
84							
86							
88							
90							
92							
94					⊽		LC grad 10cm
96							
98					⊽		98 - base mud w sand
100							light grey.
102							
104							
106							
108				4			bioturbated
110							
112							
114							
116							pyratised burrows
118							
120							
122							
124							w disp clasts ≤3mm
126							
128				4			Qtz.
130							
132							
134							
136							
138							
140							
142							
144							
146							
148							
150							
152							

Logged By: GG

Date: 21 Sep



Comments
0-49 mud - Sand
Bioturbated
w/ shell frag + 'clasts' ~3mm Qtz
Pyratised burrows.
LC: grad 10cm
49 - base muddy Sand
Stratified wavy beds 1-2cm
Muddier.



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
			2	~	
			2	~	
			4		
			4		
			4		
				/	

Logged By: GG

Date: 21 Sep.

Comments

0-30 muddy sand

50-base Mud to sandy bioturbated F clasts + shell frags

fining down core



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
						Logged By: GG; Date: 21 Sep
	S		4			0-33 Mud
	S		4			LC Sharp 33 - ~~base~~ ~~Muddy~~ Mud w/ Sand
			4			LC : grad 10cm 50 - base Muddy Sand. Dark greenish brown
			2			U Strat
			2			
			2			

CM Scale: 0–152

IW

Logged By: GG

Date: 21 Sep



CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20		0			≤		0-60 Muddy Sand
20–40					≤		
40–60				4			60-base Mud Lt Sand Bioturbated
60–80		S		4			
80–100							
100–120							
120–140							
140–152							

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: GG	Date: 21-Sep
							Comments	

PAL

0-base Mud to Sand

~~Disp. Clast~~

Shell frags

4

4



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–10				3			0–10: dark grey sandy mud w/ scattered coarse sand
10–20				3			10-base: dark grey-brown v. fine muddy sand
20–40							faint lamination some large burrows filled w/ sand, mud, or $CaCO_3$; some have pyrite-glauc haloes
40–60				4			$CaCO_3$ cementation - light brn. 50-55 cm
60–80							112-base
80–100							Bioturbation more intense here
100–112							- condensed intervals or just highlighting?
112–120				4			
120–140							
140–152							

Logged By: TF

Date: 9/21/23

400-U1607A-54R-2-A | SHLF12748091



CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
0–152				2 (0–35 cm); 3 (35–base)		

Logged By:

Date:

Comments

0-35 cm: dk grey brn muddy sand
↓ grading

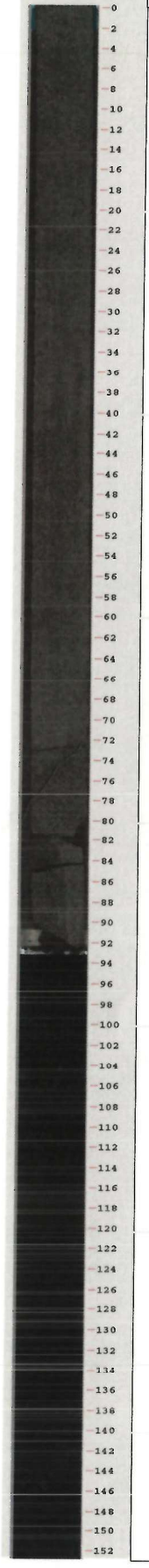
35-base: dark grey sandy mud
- stratified
- burrows are mostly mm-scale, ⊥ to bedding
- a few sand-rimmed burrows
- large, $CaCO_3$-filled burrows at
  103-105
  and
  120-124
  ↳ spreiten!



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
frac			2			0-43: sandy mud, dark grey, w/ prominent burrows rimmed/filled w/ calc. mud. -- some slave in these (pellets) ↓ grades into...
1			1		2	43-90: dark grey mud w/sand scattered small shells + clasts - bedded
4					1	
1			3			90-107: as 0-43 sand-rimmed burrows
			2			107-base: dk br-grey muddy vfine sand small flat burrows stratified

Logged By:

Date:



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
			1		
			1		

Logged By:

Date:

Comments

0-72: sandy mud in dk grey-brn. massive to faint lams

sharp inclined contact!

72-base: very fine sandy sand

structure obscured by saw marks

lone burrow

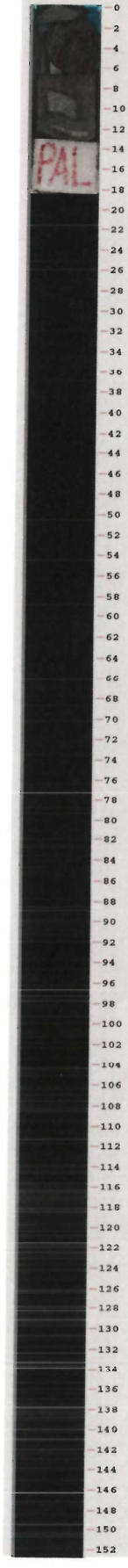


CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20				1			0-20: muddy sand, as above 0-6 cm is carb cemented ↓ v gradual gradation
20–60				0			20-64: sandy mud. Dark grey faint lams ↓ sharp
60–80				2			mud w/ disp sand
80–100							Are-cc cemented intervals clean sand??
100–120							
120–140							
140–152							

Logged By: TF

Date: 9/21/23

400-U1607A-54R-CC-A | SHLF12748211



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10		Logged By:	Date:
						Comments		

2 pieces

dk grey-brown muddy Sand

(1)

Logged By: ET

Date: 9/21/23



CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20		1 frac		3		0	(0-150cm) muddy sand dark brown with glacuonite grains throughout up to glacuonite filled burrows 4mm in diameter dark brown
20–42		2 frac					
42–144		1					
144–152		frac					

Logged By: ET

Date: 9/21/23

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152		1		3			(0-7) same as above
							(7 – 69cm) sandy mud with dispersed clast medium brown wavy bedding could be due to burrows glacuonite in burrows some small macrofossils
							(69 – 131cm) muddy sand dark brown glacuonite grains throughout
				2			
							(131 – 145cm) muddy sand → dispersed clast medium brown with glacuonite in burrows small macrofossils
				3			

400-U1607A-55R-3-A | SHLF12748701

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: ET	Date: 9/21/23
							Comments	

1

3

(0-45cm)
same as above

(45 - 70cm)
muddy sand with disposed clast
dark brown
glauconite throughout

3

(70 - 117cm)
muddy sand
dark brown
glauconite
throughout
wavy bedding?

2

(117 - 140cm)
muddy sand with disposed clast
medium brown
glauconite & burrows
small
microfossils

3

(140 - 150cm)
muddy sand
dark brown
glauconite
throughout

400-U1607A-55R-4-A | SHLF12748731

Logged By: ET

Date: 9/21/23

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152		1		3		3	(0–23cm) same as above macrofoss.'l
							(23–37cm) muddy sand w/ dispersed clast medium brown shells
							(37–95cm) muddy sand dark brown glaucon.'te throughout
							(95–150cm) muddy sand w/ dispersed clast macrofoss.'ls glaucon.'te filled burrows
				4		4	

400-U1607A-55R-5-A | SHLF12748761

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	

CM Scale

1

2

3

2

(0-52cm)
muddy sand
dark brown
glauconite throughout
burrows

(52cm)-98cm)
muddy sand w dispersed clast
med brown
shells
glauconite filled burrow

(98cm -117cm)
medium brown
muddy sand
weak/faint laminations

(117-end)
muddy sand w dispersed clast
dark brown

IW

400-U1607A-55R-6-A | SHLF12748791

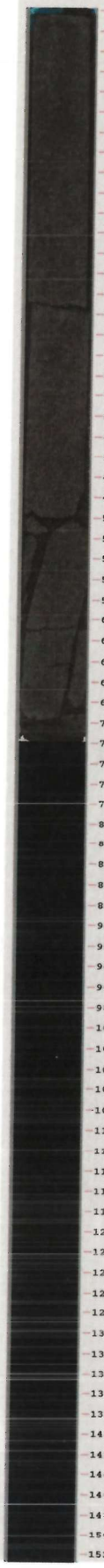
Logged By: ET

Date: 9/21/23

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152		1		2			(e – 122cm) dark brown muddy w/ sand dispersed glauconite throughout class (122 – 125cm) same as above calcite cement (125cm – end) medium brown muddy sand w/ dispersed clast glauconite filled burrow

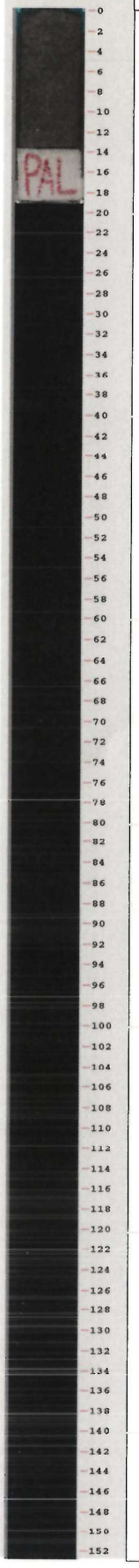
400-U1607A-55R-7-A | SHLF12748821

Logged By:	Date:
ET	9/21/23



CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152		1		2			(0 – 74cm) Same as above
		2					

400-U1607A-55R-CC-A | SHLF12748851



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: ET	Date: 9/21/23
	0		2			Comments: (0-14cm) same as above	

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
0–152				3		

Logged By: BR

Date: 9/21/23

Comments

Slight disturbance (fractured)

0-43: medium to dark brown, bioturbid weakly stratified sandy mud

43-67:

medium-brown bioturbated sandy m-d w/ glauconite-rich layers

67-129: medium-brown bioturbid, weakly stratified sandy mud

129-end: dark brown bioturbid, weakly stratified sandy m-d

the entire succession includes some 'pools' of coarser sand that are likely burrow fills, but where are those sand deposits >>

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: BR	Date: 9/21/23
							Comments	



slight (fractured) disturbance

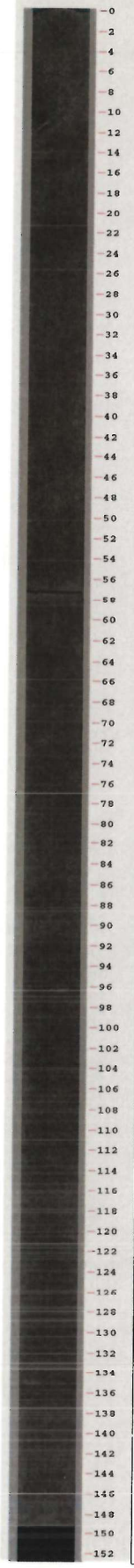
0–66: dark brown bioturbated weakly stratified muddy sand

66–86: medium brown bioturbated weakly stratified muddy sand

86–127: dark brown

127–end: medium-brown

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: BR	Date: 9/21/23



Comments

slight (fractured) disturbance

0–53: dark-brown bioturbid muddy sand w/ dark-green glauconite grains (up to 3-4mm)

47: burrow-fill (?) w/ dark-green glauconite, qtz grains, fine pyrite, and smaller burrows w/in (?)

53-66: medium brown bioturbid muddy sand, weakly stratified

66-125: dark brown bioturbid, weakly stratified muddy sand w/ sparse glauc grains

125 – end: medium-brown bioturbid, weakly stratified muddy sand w/ sparse granules (some glauc)

glauc

pyrite on fringe

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: BR	Date: 9/21/23
							Comments	



slight (fractured) disturbance

0-53: dark brown, bioturbated weakly stratified muddy sand

53-end: medium-brown, bioturbated, weakly stratified muddy sand

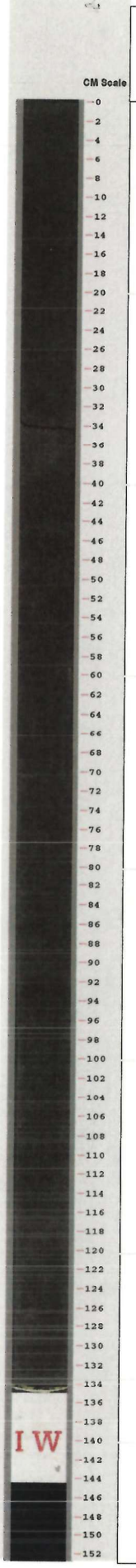
burrow-fills w/ a very fine light-tan material, pyrite and glauconite particles (e.g., 88-89cm)

→ doesn't fizz ... is potentially all very fine silt (4-30 μm) quartz (?)

400-U1607A-56R-5-A | SHLF12749281

Logged By:	Date:
BR	9/21/23

Comments



Slight (fractured) disturbance

3

Medium-brown, bioturbated
~~wavy~~ wavy stratified
muddy sand
throughout

45-46: s-b horizontal layer
of dominantly glauconite
that is potentially
in situ authigenic glauc (?)

400-U1607A-56R-6-A | SHLF12749311

Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
			3		

Logged By: BR

Date: 9/21/23

CM Scale

Comments

slight (fractured) disturbance

medium-brown, bioturbid weakly stratified muddy sand w/ sparse glauc

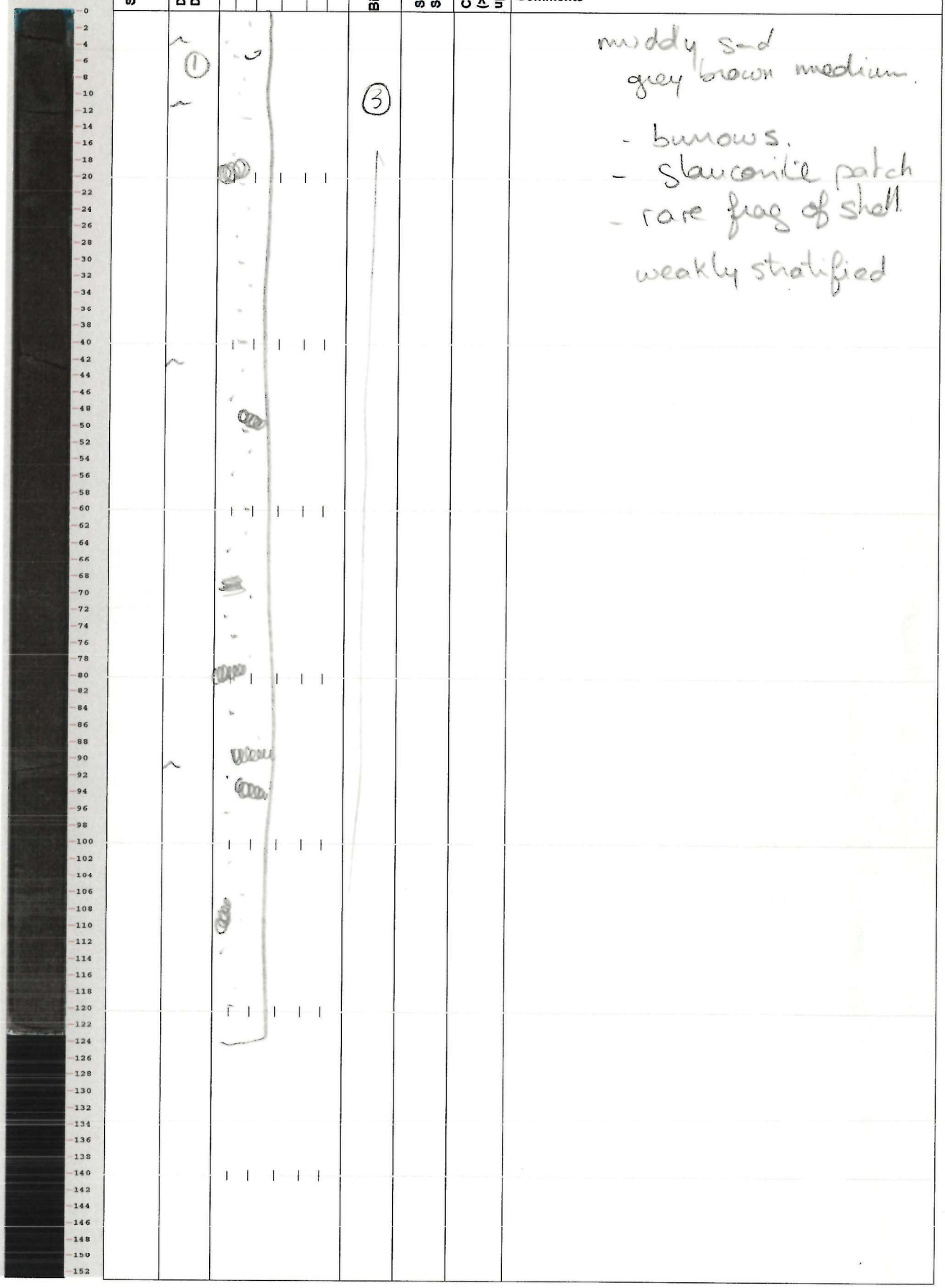
(MBBWSMSWSG)



some of the larger burrow fills can have UF to LM sand... were these in thin lamina/beds that are now destroyed?

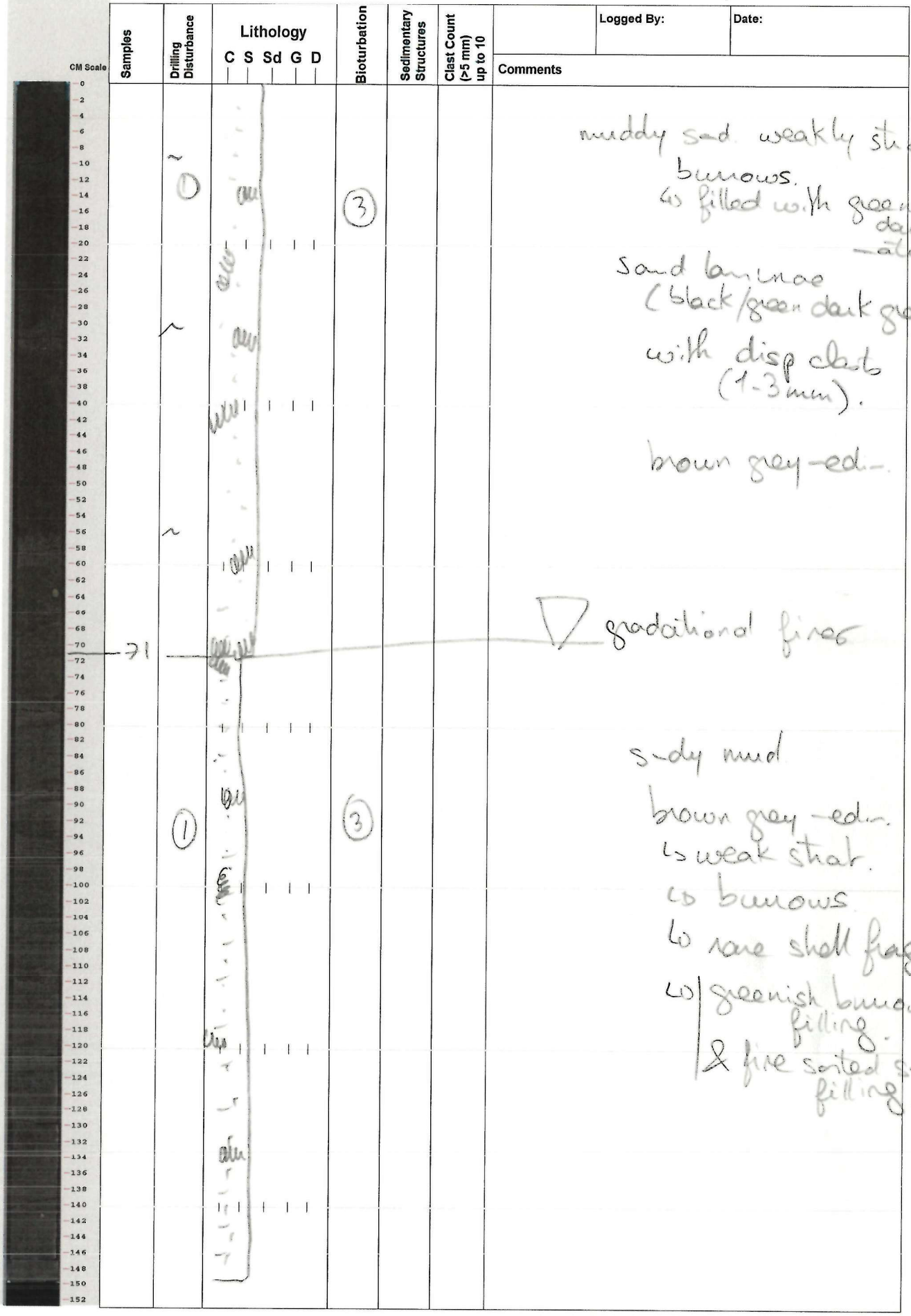
400-U1607A-57R-1-A | SHLF12749681

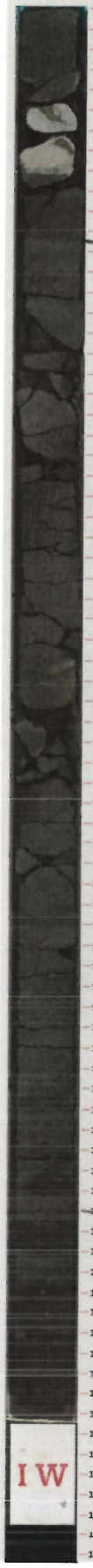
Logged By:	Date:



400-U1607A-57R-2-A | SHLF12749711

Logged By:	Date:
Comments	





CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–8		slig 9		2			sandy mud dark grey brown pyritized burrows
10–16		mod 17		3			light grey / cemented calcite mud
18–22		slight		2			dark grey brown.
24–38							
40–58				2			dark grey brown mud. burrow filled with calcareous yellow mud. + calcareous mud blebs around. + filled with sand
60–78		mod					
80–116							
118–138				3			muddy sand dark grey brown with shell fragments. weak strat.
140–152							

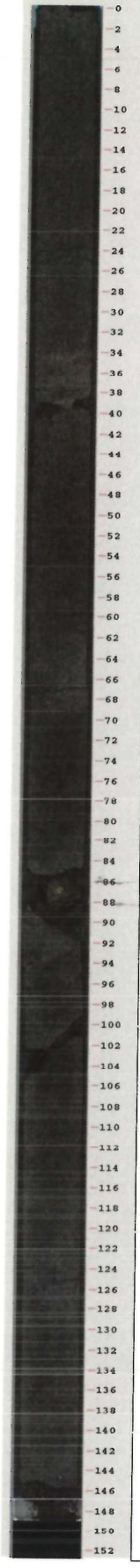
Logged By:

Date:

IW

400-U1607A-57R-4-A | SHLF12749771

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	



dark brown, greyish muddy s-d
- weak lam
- burrows.

calcareous filled burrows.

concret. calcite cemented.

dark brown greyish muddy s-d.
weak lam

black/green dark s-d.

400-U1607A-57R-5-A | SHLF12749801

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	



113

(1)

(2)

(3)

dark grayish brown muddy sand

concret. + burrows filled with calcareous mud yellow

weak stat

dark s-d. greenish

concret. calcite cemented mud light gray.

Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
	0		0			dark grey brown muddy sand weak strat
						black grains (glauc?). grad contact
	2		3			concret. calcite cem. mud dark grey brown. burrows filled with calc mud yellow.
						bioturbated contact. grad contact
	1		3			sandy mud dark grey brown weak strat.
	53					
			2			muddy sand burrows filled with fine sand & calcareous yellow mud. or greenish dark matrix.
	1					- dark / greenish black sand. - weak strat
	131					sharp bioturbated contact
	137					cemented mud light grey calcite
	3					sandy mud dark grey brown.

Logged By: Date:

CM Scale



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

dark grey sandy mud. burrows sand filled.

muddy sand dark grey brown

burrows

- greenish dark patches

- dark/green sand

weak stria

bioturbated contact

muddy sand medium grey brown

foram bathique

weak stria

Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
						Logged By: Date:
	1		3			muddy sand medium grey brown. + shell frag. weak lam.
	1		3			muddy sand dark grey weak strat burrows filled with yellow calcareous mud. and greenish dark matrix dark/green sand.
	58 2 63					cemented calcite mud light grey
	3					same.

CM Scale: 0–152

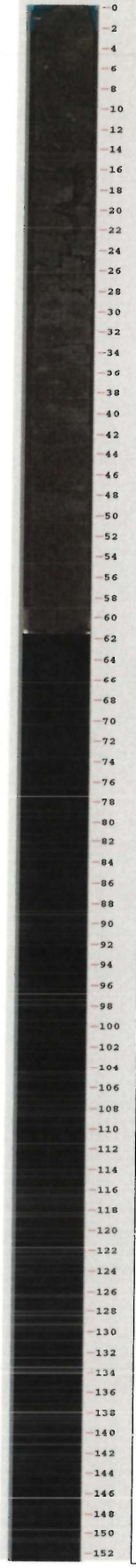
400-U1607A-57R-CC-A | SHLF12749921

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
	(3)		(3)			Comments: dark brown muddy Sed burrows filled with cal dark/green sand.	

CM Scale

PAL

400-U1607A-58R-1-A | SHLF12750431



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
	1	S	4		
	1	S			
	1	S			
		S			
		S	1	M	
		S			
		S	4		
		S			
		S			
		S	3		
		S			
		S			

Logged By: Sandra

Date: 9/21/2023

Comments

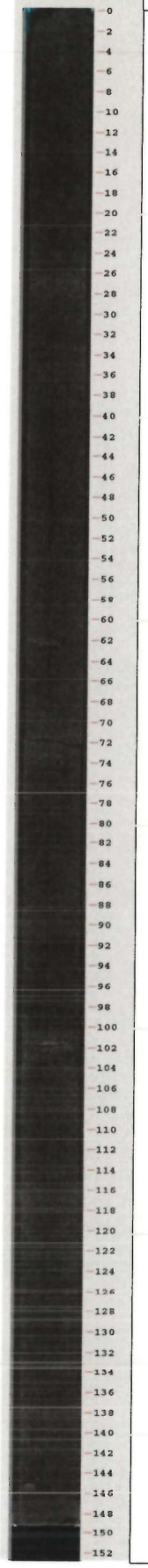
0-15cm: Greyish brown muddy sand (silty fine sand), bioturbated (4) irregular lower contact dark greenish grains up to 4mm

15-38cm: Dark brown mud bioturbated only sparsely 15-27cm, massive

27-38cm: commonly bioturbated (4) w/ Pyritized burrows

38-62cm: Greyish brown moderately bioturbated sandy mud to muddy sand (variations in grain-size over cm to dm intervals)

possible rare shell fragments



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: Sandra	Date: 9/21/2023
						Comments	

0-40cm: Dark brown sandy mud

34-39cm: dark green horizontal burrow fills

40-63cm: Greyish brown muddy sand

63-98cm: Dark brown sandy mud

98-101cm: dark green horizontal burrow fills

3

98-150cm: Greyish brown muddy sand

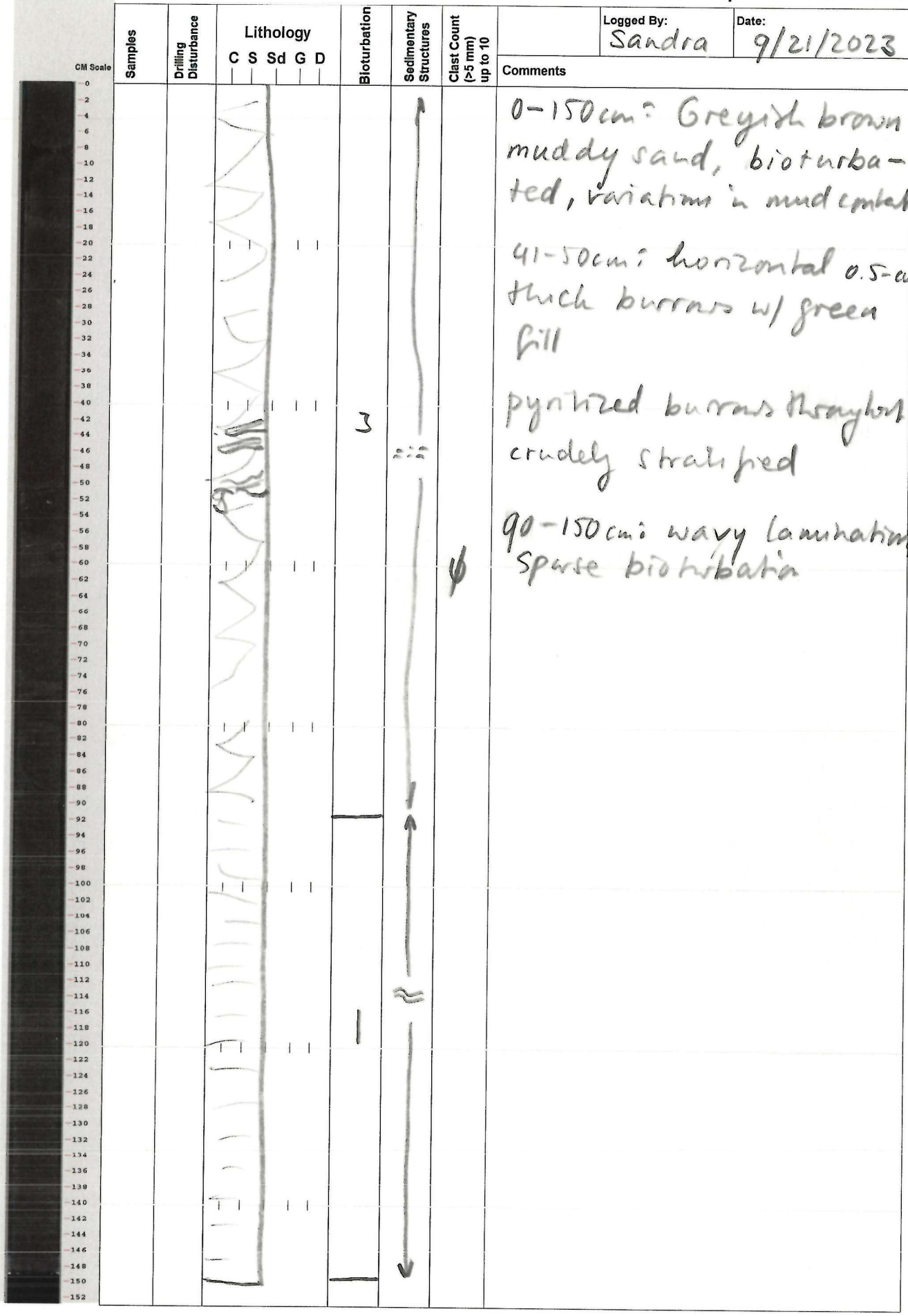
63cm: irregular loaded? contact - fine well sorted sand, pyritized

68-69cm: sediment clast?

pyritized burrows throughout

Logged By: Sandra

Date: 9/21/2023



400-U1607A-58R-4-A | SHLF12750521

Logged By: Sandra

Date: 9/21/2023

Comments

0-46cm: Dark brown muddy sand

31-32cm: horiz. 0.5cm burrows w/ green fill, 43-44cm as well

wavy lamination

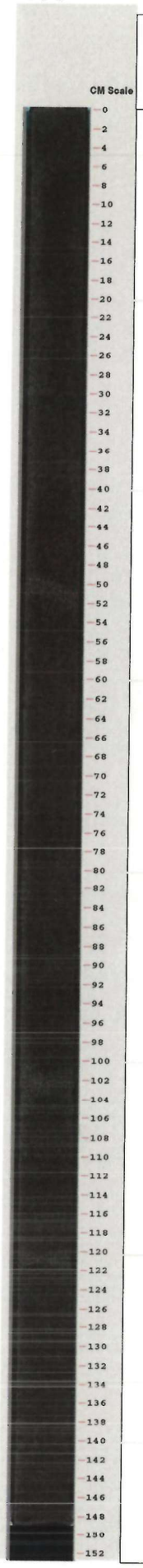
46-99cm: Greyish brown sand (very small mud component), wavy lamination

99-150cm: Dark brown muddy sand

green burrow fills at 150-

wavy lamination

81cm: rounded quartz granule

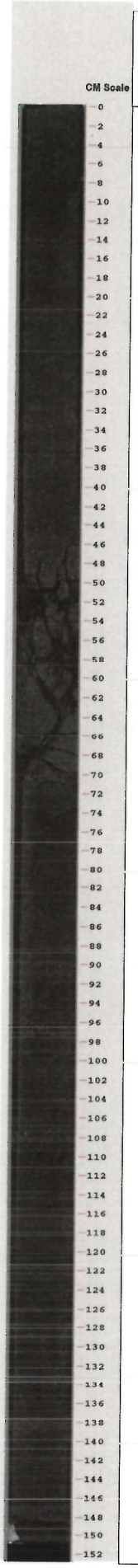


Logged By: Sandra

Date: 9/21/2023



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
			2		∅	0–141cm: Dark brown muddy sand (variations in mud content) moderately bioturbated
						1–2cm: dark green mud clast or burrow fill?
						0–18cm: uncommonly bioturbated, wavy lamination
						pyritized burrows
			3			



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
47			3		Ø
71					

Logged By: Sandra

Date: 9/21/2023

Comments

0-71cm: Very dark greyish brown sandy mud to muddy sand (silty sand or sandy silt) bioturbated

70-71cm: black burrow fill w/ 2-4 mm pyrite nodules

71cm: sharp contact

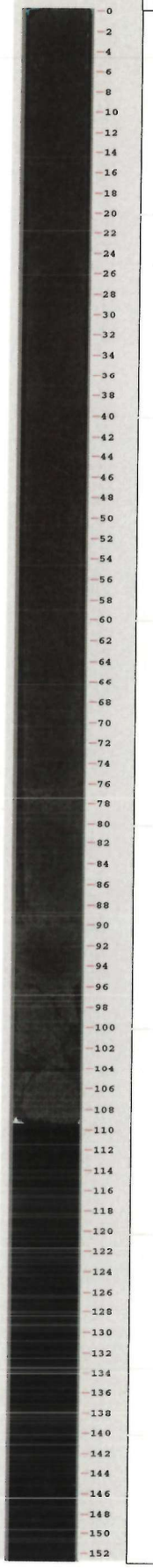
71-72cm: ~1cm thick burrows, hor., w/ green fill

71-150cm: Dark greyish brown sandy mud, bioturbated

Structure heavily overprinted by bioturbation

400-U1607A-58R-7-A | SHLF12750611

Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: Sandra	Date: 9/21/2023
						Comments	



0-110cm: Same as S.6

rare shell fragment at 17cm

3

82-83cm: burrows w/green fill

Logged By: Sandra

Date: 9/21/2023

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
0–152				3		

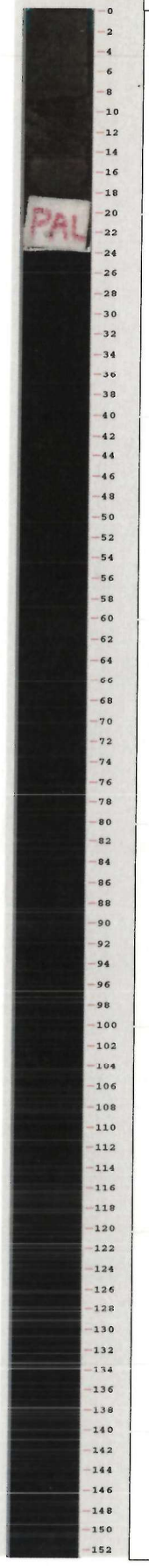
Comments

0-16cm: same as s.6+7

16-55cm: Greyish brown muddy sand

pyritized burrows

9-16cm: strongly disturbed



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: Sandra	Date: 9/21/2023
						Comments	
10			3		Ø	Same as 5.8	



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: L. Ives / Date: 21 Sep 23 / Comments L. Ives — getting tired lol
0–20		0		3			Med Brown to dk brown muddy sand, subtly stratifies
20–48							
48–66		2 frac		5			47 cm bioturbated yellow-orange sandy mud, no horizontal fabric
66–108				3			65 cm dk brown muddy sand
108–120				3			faults w/ slickenlines @ 139-144 cm
108–120							grad @ 113 med brown muddy sand
120–140							- Subtly stratified - Shell fragments - Pyrite present

400-U1607A-59R-2-A | SHLF12751041

Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: L Ives	Date: 21 Sep 23
	(1) fractured		(3)		X	Comments	

med brown muddy sand
w/
→ subtle laminations
→ shell fragments
→ pyrite + pyrite burrowfill

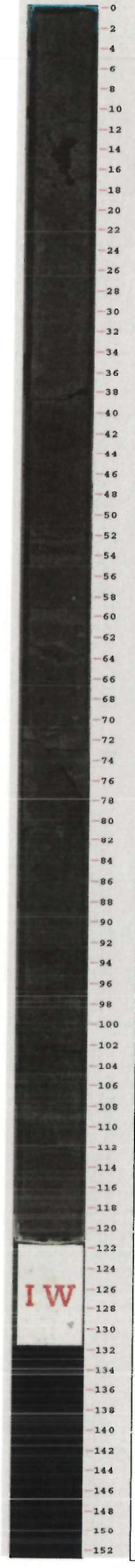
yellow/white burrow fills are µ x/ln pyrite.
v. sparse

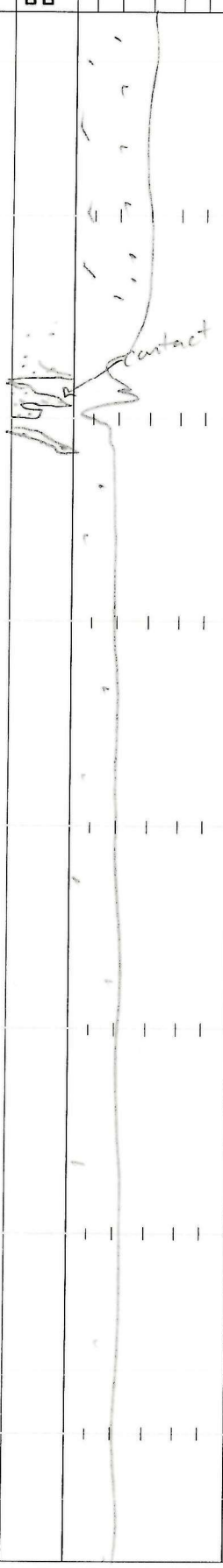
@123cm
dk brown muddy sand
↳ ↑ detrital glauc.
↓ pyritized burrows
↳ small shell fragments

(4)

400-U1607A-59R-3-A | SHLF12751071

Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: I. Ives	Date: 21 Sep 23
						Comments	





4

3

dk brown muddy sand, as above lots of detrital glauconite (black) grains

Sharp, irregular, deformed + burrowed contact.

med-brown → finer, muddier? muddy sand w/
- shells
- pyrite (sparse!!)
- burrows!

Logged By: L. Ives

Date: 21 Sep 23



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20		0 frac.		3 ↓	= ↓	Y ↓	As above 0 – end
20–80							
80–98							98–111 cm : carbonate cemented interval of the same.
98–100				2			---- grd - decrease in burrows ↓ - ↓ pyrite, burrow are sand-filled.
100–120							
120–140							

Logged By: L Ives

Date: 21 Sep 23

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20		0		4			Med brown muddy sand, as above. Shells, no pyrite
20–40							
40–60							
60–80							
80–92							
92–94							grad @ 93
94–98				3			dk brown detrital glauconite sand w/ green area of in-situ authigenic fm.
98–120							
120–140							

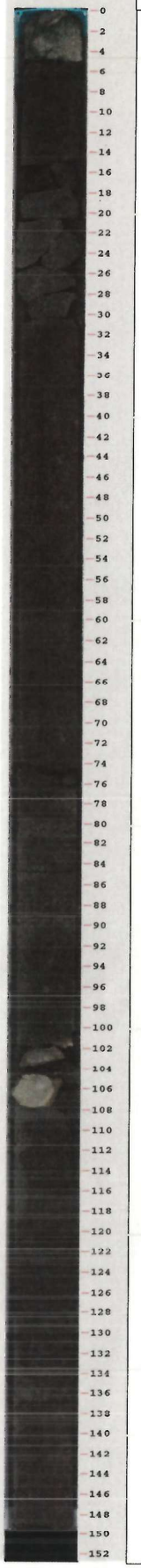
400-U1607A-59R-CC-A | SHLF12751161



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10		Logged By:	Date:
						Comments		

As above.
but w/ carbonate cement.

Why are glauconite grains green in the carb-cemented interval?



Samples | Drilling Disturbance | Lithology (C S Sd G D) | Bioturbation | Sedimentary Structures | Clast Count (>5 mm) up to 10

Logged By: BR

Date: 9/21/23

Comments

0-5: Fall-in (no lithology)

5-32: strongly brecciated

32-end: slight fracturing

Medium-brown, bioturbated

Weakly stratified

Muddy sand throughout

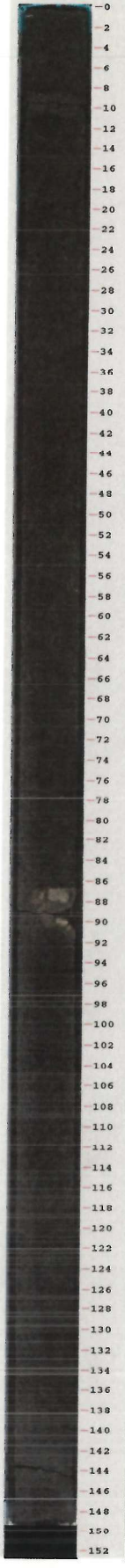
74: FAULT (slicks)

102-108: concretion

Stratification more prominent near base

130: glauconite layer (burrow fill?)

400-U1607A-60R-2-A | SHLF12751471



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: BR	Date: 9/21/23
			3			Comments	

slight (fractured) disturbance

10cm: mud brd (little to no sand)

0-77: medium-brown, bioturbated wrinkly stratified muddy sand

77-end: dark brown bioturbid wrinkly stratified muddy sand

87-92: concretion

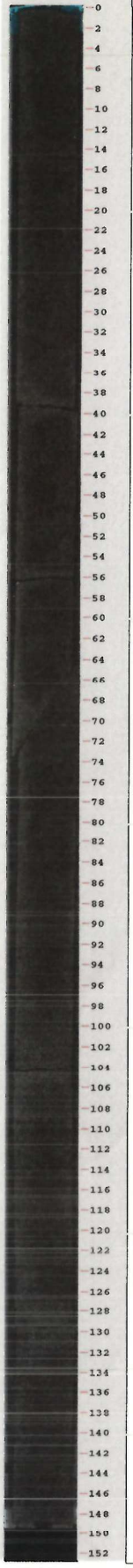
Very sparse/rare glauc grains throughout (not as abundant as overlying cores it seems)

but, there's a lot of sand-sized pyrite sprinkled throughout (see the x-ray expression = black dots)

400-U1607A-60R-3-A | SHLF12751501

Logged By:	Date:
BR	9/21/23

Comments



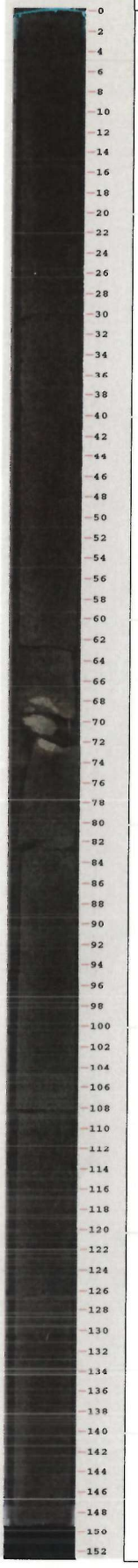
slight (fractured) disturbance

0–90: medium-brown bioturbated sandy mud (weakly lam'd) fine-sand-sized specks of pyrite (gradational LC)

70: FAULT

90-end: medium-brown bioturbated muddy sand, weakly lam'd w/ both glauc and pyrite particles

400-U1607A-60R-4-A | SHLF12751531



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: BR	Date: 9/21/23

Comments

slight (fractured) disturbance

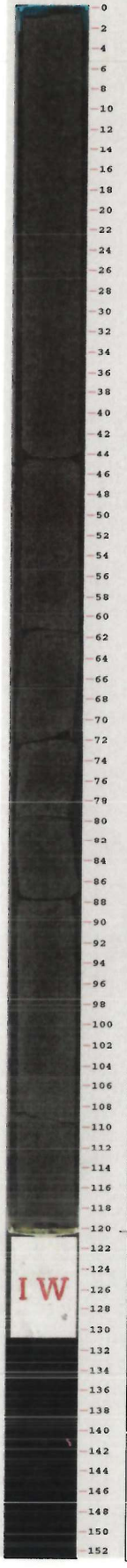
3

0-97: dark brown bioturbated muddy sand (more massive variety) more bioturbid?

68-74: concretion

97-end: Medium-brown bioturbated, weakly stratified muddy sand

dark particles (glauc?) and some pyrite sprinkled about



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10

Logged By: BR

Date: 9/21/23

Comments

slight (fractured) disturbance

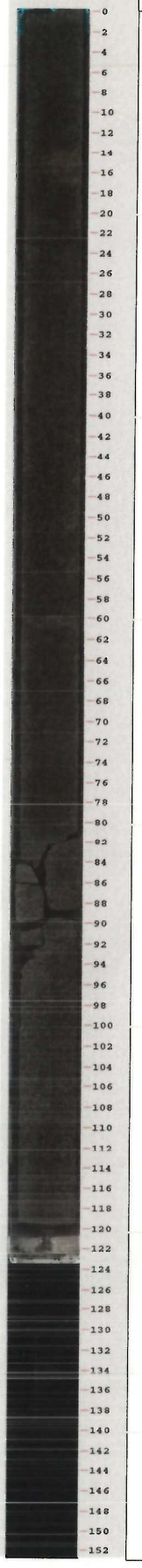
3

0–100: dark brown bioturbated muddy sand, weakly stratified (gradational LC)

53: glauconite "blob"

100–end: medium-brown bioturbated, weakly stratified muddy sand

base of section



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: BR	Date: 9/21/23
						Comments	

Slight (fractured) disturbance

3

Medium-brown, bioturbated weakly-stratified muddy sand throughout

13-17: orange-ish burrow-fill (calcareous?)

21: diffusely outlined pod of well-sorted vf sand (burrow?)

base of section

400-U1607A-60R-7-A | SHLF12751621



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: BR	Date: 9/21/23
						Comments	

slight (fractured) disturbance

dark-brown, bioturbated muddy sand

base of section

400-U1607A-60R-CC-A | SHLF12751651

Logged By:	Date:
BR	9/21/23

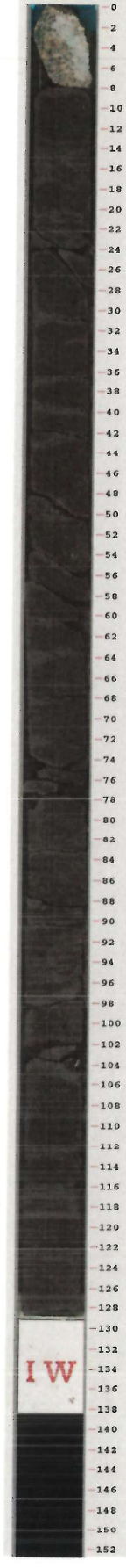
CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152				3			undisturbed 0–33: dark brown, bioturbated muddy sand 14–21: collection of shell fragments + two shell-in-shell gastropods 33–end: medium-brown, bioturbated muddy sand; weakly stiff base of CC

PAL

400-U1607A-61R-1-A | SHLF12754201

Logged By: Sandra

Date: 9/21/2023



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
	S	fall-in	5		∅
			2		

Comments

0–8 cm: granite clast 8 cm ∅ – fall-in

8–129 cm: Very dark grey/ish brown mud (small sand component <20%) clay?

8–56 cm: abundantly bioturbated w/ pyritized burrow fills, green burrow fills

56–129 cm: uncommonly bioturbated (2)

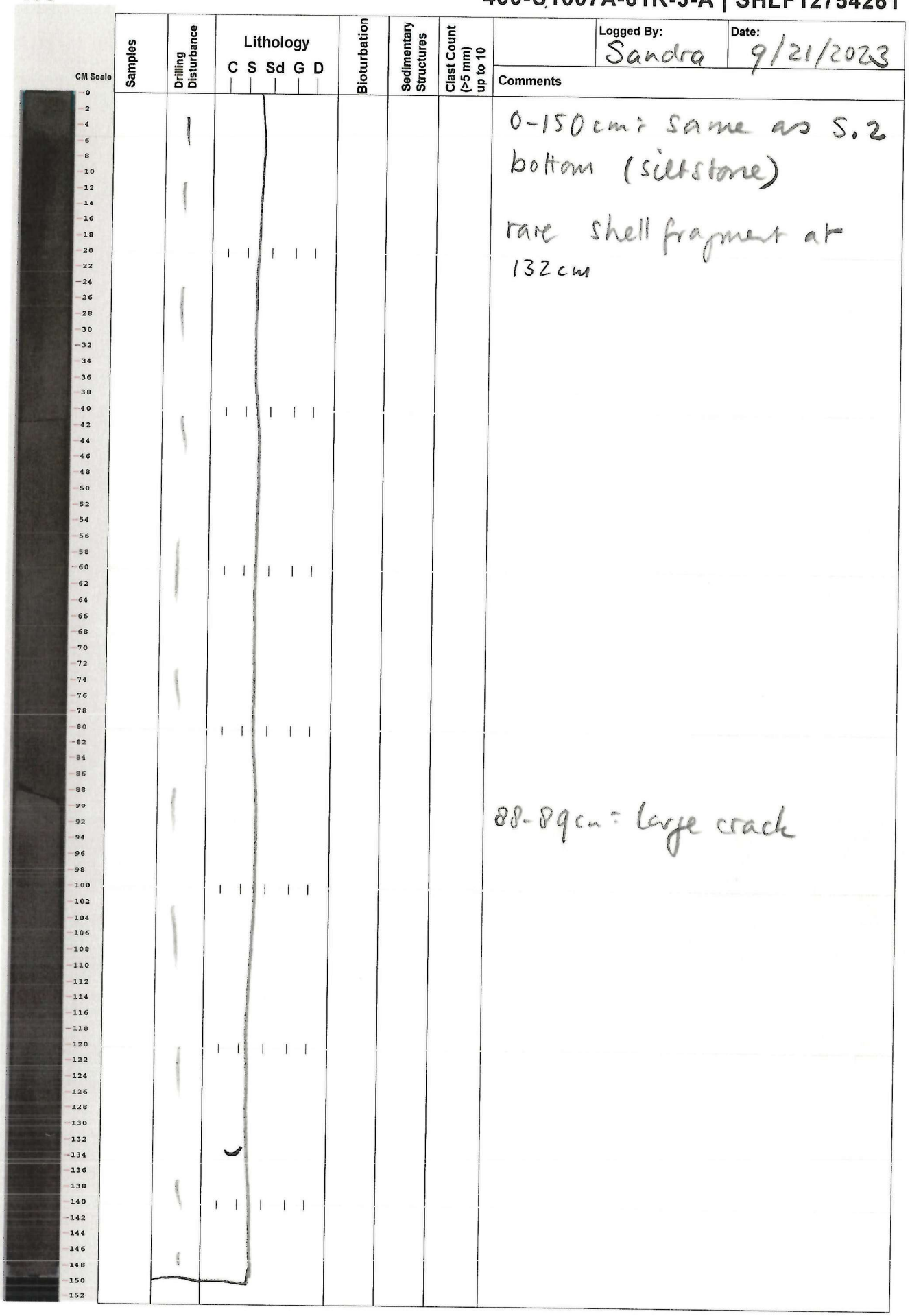
remnants of pinstripe laminations of silt and clay (silt lenses)

103 cm: fault plane w/ slickensides

Logged By: Sandra

Date: 9/21/2023

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152				3 (0–36 cm); 4 (36–114 cm); 3 (114–150 cm)			0–36 cm: Dark greyish brown sandy mud, moderately bioturbated (3) 36–114 cm: muddy sand commonly bioturbated (4) w/ few shell fragments at 50 cm, 71 cm, 77 cm 114 cm: fault plane w/ slickensides (lithol. boundary) 114–150 cm: Sandy mud, moderately bioturbated, with weak horizontal structure from lamination remnants? (siltstone)


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Sandra
Date:
9/21/2023
Comments
0-150 cm: same as 5.2 bottom (siltstone)
rare shell fragment at 132 cm
88-89 cm: large crack

400-U1607A-61R-CC-A | SHLF12754291

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: Sandra	Date: 9/21/2023
						Comments	

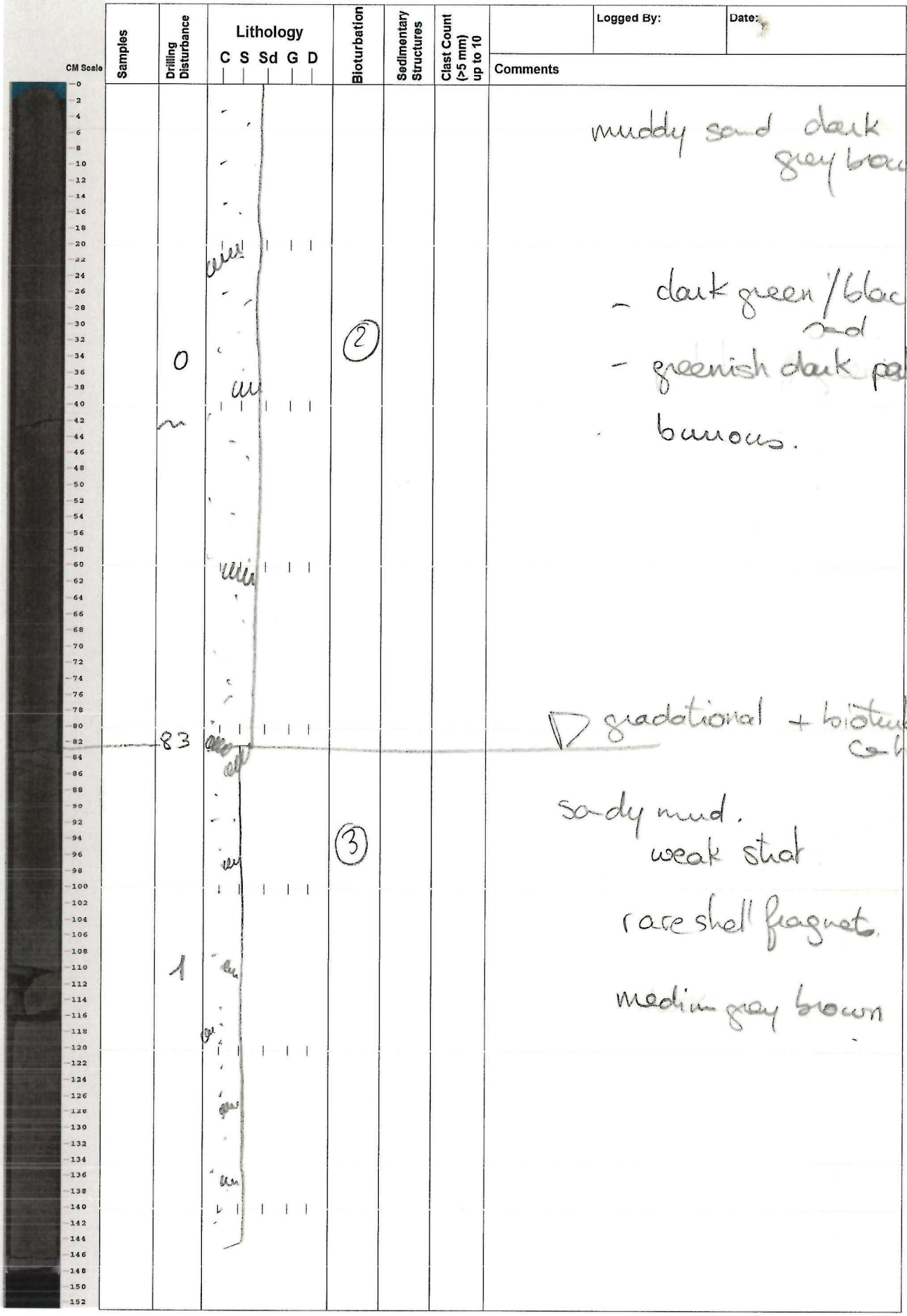
CM Scale

PAL

3

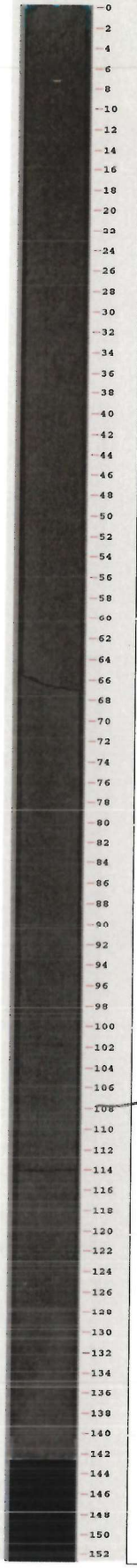
Ø

Same as s. 2 and 3
more clay?



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
							Logged By: Date:
0–82		0		(2)			muddy sand dark grey brown - dark green/black sand - greenish dark patches burrows.
82		83					▽ gradational + bioturbated contact.
82–152		1		(3)			sandy mud. weak strat rare shell fragments. medium grey brown

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



dark grey brown
muddy sand
rare shell frag
black / dark green sand.

burrows.

(3)

0

gradational contact + bioturbated

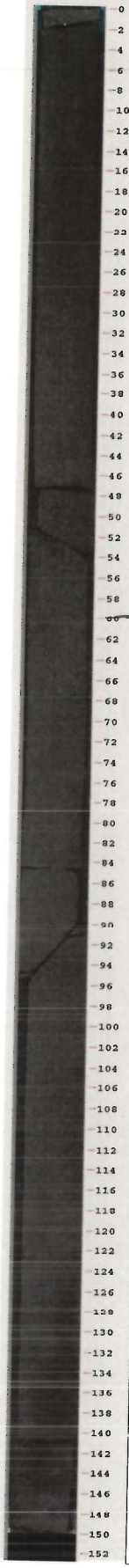
sandy mud medium grey brown

burrows filed with sand
rare shell frague

(3)

0

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
						Logged By: Date:



muddy sand dark grey brown.

- rare shell frag
- dark/green sand
-> greenish dark patch

(3)

(1)

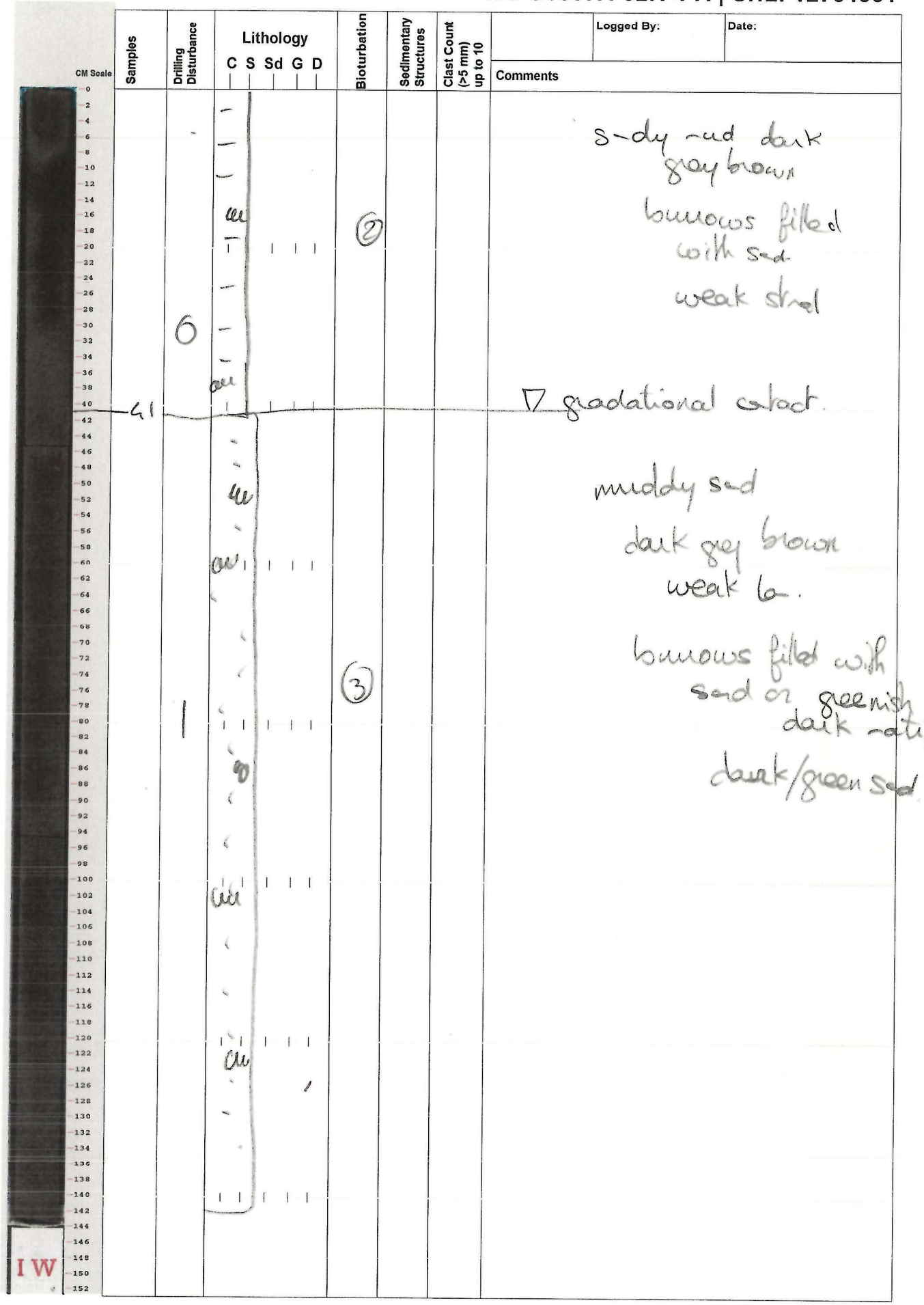
gradational contact
+ bioturbated
-> burrows filled with greenish matrix

it's nice

(3)

sandy mud
medium grey
burrows
-> burrows filled by sand on greenish matrix.

weak strat

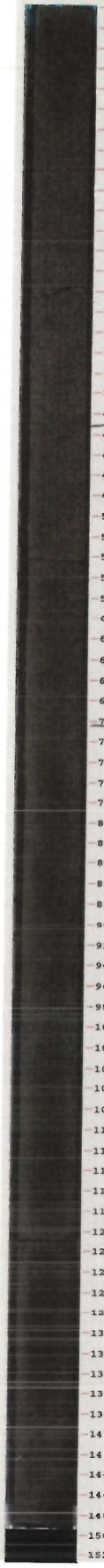


Logged By: Date:

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–40		0		②			sandy mud dark grey brown burrows filled with sand weak strat
40	41						▽ gradational contact.
40–152		1		③			muddy sand dark grey brown weak lam. burrows filled with sand or greenish dark matrix dark/green sand

IW

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
						Logged By: Date:



muddy sand dark grey brown

burrows filled with sand

weak strat

rare shell frag

burrow filled with sand or greenish matrix

} burrow

muddy sand medium grey brown

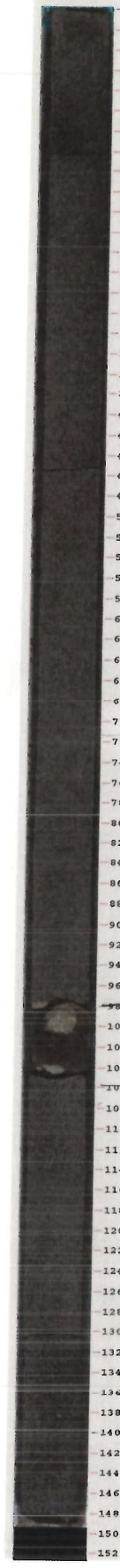
weak strat

burrows filled with sand

rare shell frag.

400-U1607A-62R-6-A | SHLF12754911

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	



3

medium grey brown muddy sand
weak stiat

burrows filled with sand
rare shell debris (tiny)

cemented sandy mud (calcite)
light grey / white green/dark sand

medium grey brown muddy sand
weak stiat
burrows
rare shell frag (tiny)

burrow

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
						Logged By: Date:

CM Scale



medium brown grey muddy sand

(3)

greenish fill of burrows

0

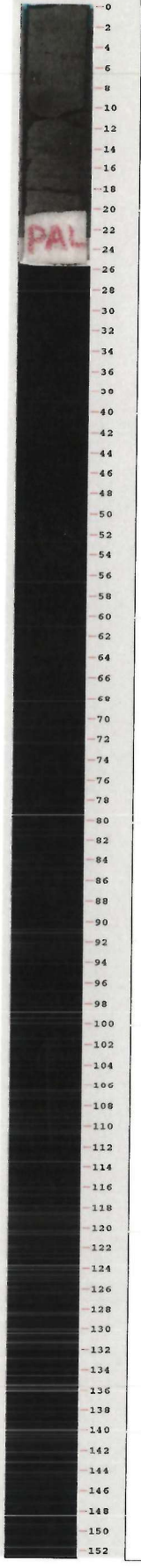
sharp horizontal contact

0

(3)

sandy mud.
dark brown grey.
burrows
thin sand laminae

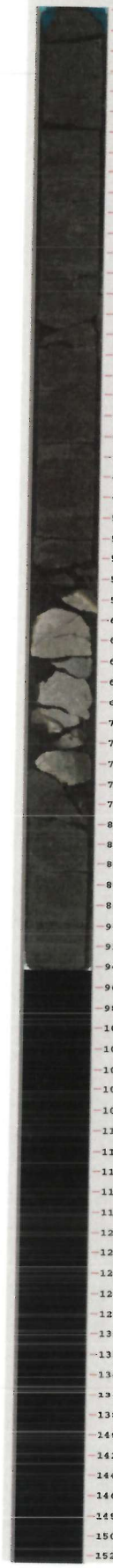
Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	



mud. dark grey
brown
burrows

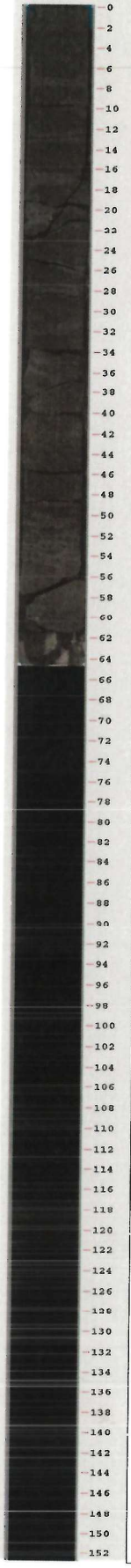
400-U1607A-63R-1-A | SHLF12755291

Logged By:	Date:
TF	9/22/23



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
	1		1		0	0 – 95 cm: gray mud w/ sparse burrows. – some pyritization – thinly bedded
	3					58 – 75: concretion
	1					

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



2

0 – 63 as above, thick lam

carb nodule 63-65cm

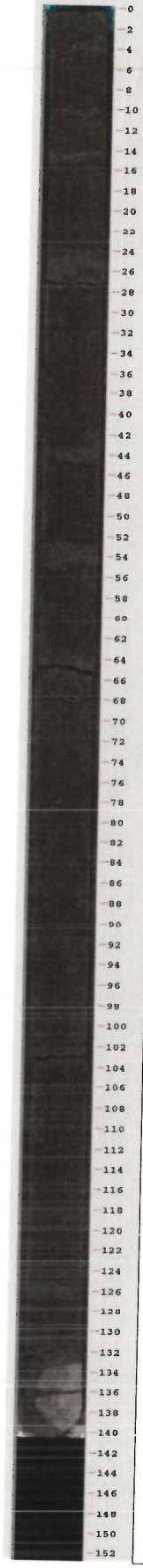
400-U1607A-63R-3-A | SHLF12755351

CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
0–152				1				

Comments

0 – base: dk grey brown
thickly laminated
mud
- few burrows,
all small
wavy

IW



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152				1			0-45: dk grey-brown sandy mud thickly lam sparse bio
							very gradual transition to ↓
							55-base: muddy sand
							very small traces
				5			Windows of lamination in places
							sand lined + filled burrows
							132-base: Concretion ($CaCO_3$)

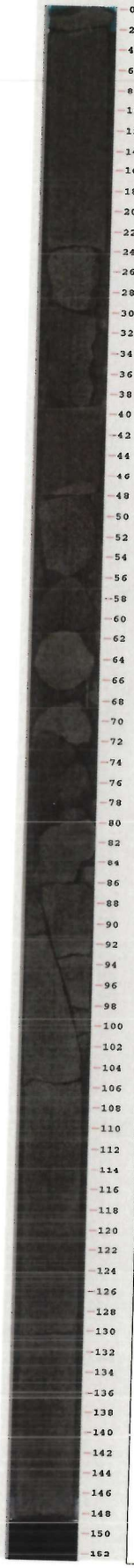
Logged By:

Date:

400-U1607A-64R-1-A | SHLF12755851

Logged By:	Date:
GA	22 Sep.

Comments



Sandy mud;
Greyish brown
Bioturbated

LC: Observed

87: Muddy sand.
weakly stratified
w inclined wavy bedding.
Dk brown

400

400-U1607A-64R-2-A | SHLF12755881

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: CG	Date: 22 Sep
							Comments	
0–152		0		3	≈	X	Muddy Sand: Dk brown, weakly stratified Wavy bed	
					≈			
				3			59 ↓ Increasing large glauconite grains up to 8mm	
		G						

400

400-U1607A-64R-3-A | SHLF12755911

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: CG	Date: 22 Sep.
						Comments	



Muddy Sand med grain grey

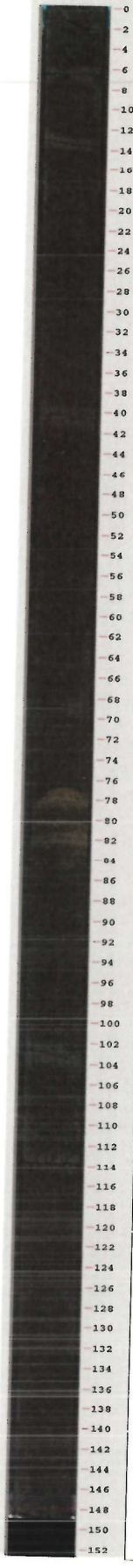
green filled burrows + large glauconite grains

weak. Strat wavy beds

400

400-U1607A-64R-4-A | SHLF12755941

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: GG	Date: 22 Sep
						Comments	



Muddy Sand

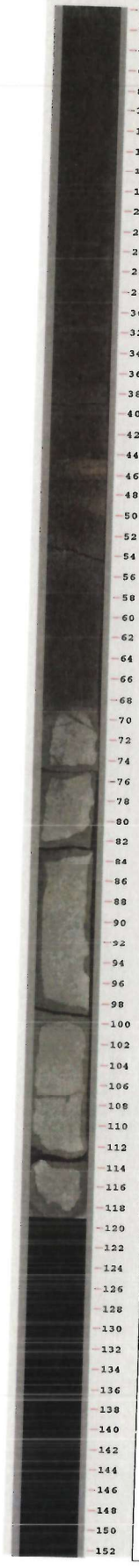
Shell frags.

burrows filled w sand

carcareous infill
Creamy brown burrows

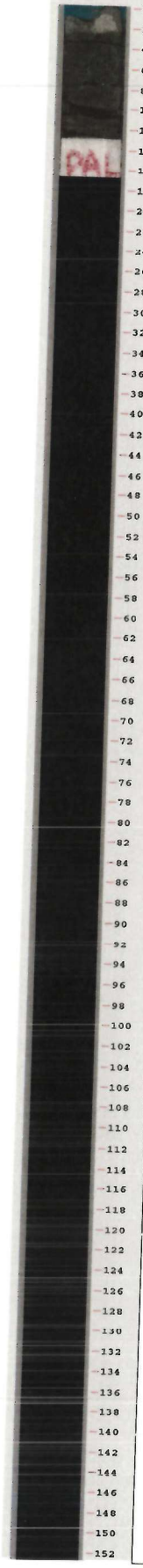
Weak Strat
wavy bed

400-U1607A-64R-5-A | SHLF12755971



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: CG	Date: 22 Sep
	0		3	≈	X	Comments: copy paste above.	
				≈			
			3				
						@69 LC: Sharp contact	
			3			Calcareous Cemented Sandy Mud.	
			3				

400-U1607A-64R-CC-A | SHLF12756001



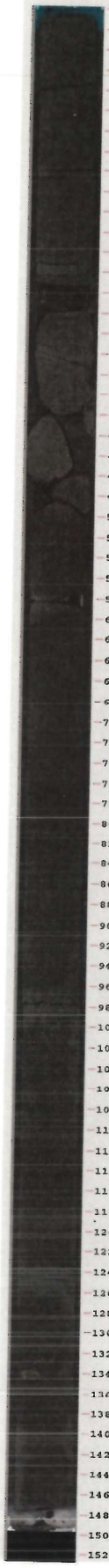
CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152		✓		3	x	x	0-3 Coring + Pasha LC: Sharp. 3-base Sandy Mud. Muddy Sand

Logged By: GG

Date: 22 Sep.

400-U1607A-65R-1-A | SHLF12756581

Logged By:	Date:
ET	9/21/23



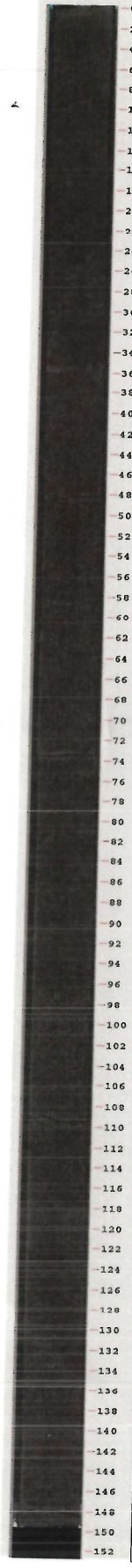
CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–28		1		3		0	(0 – 49cm) sandy mud medium greenish grey macrofossils calcite in burrows pyrite in burrows thickly stratified
28–48		2					
48–150		1		3		0	(49 – 150cm) muddy sand medium greyish brown macrofossils → foram burrows concentrate fossils calcite in burrows stratified weak/faint

400-U1607A-65R-2-A | SHLF12756611

Logged By:	Date:
ET	9/21

Comments

(0–150cm)
same as above



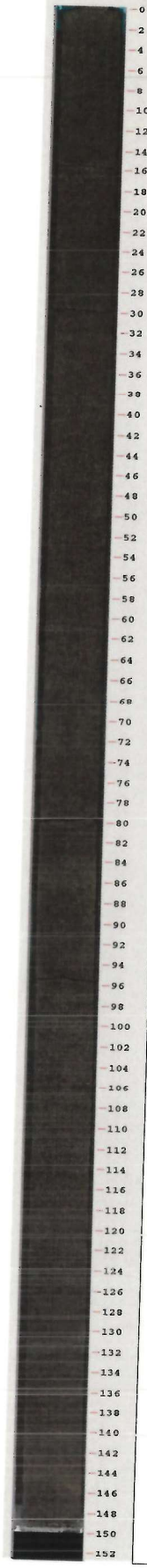


400

400-U1607A-65R-3-A | SHLF12756641

Logged By:	Date:
ET	9/21

Comments: (0-150cm) same as above shell fragments 16-17cm



400-U1607A-65R-4-A | SHLF12756671



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
	1		3		0
			4		
			5		
			4		

Logged By: ET

Date: 9/21

Comments

(0-28cm)

muddy sand
medium greenish grey
calcite burrows
macrofossils

(28cm – end
calcareous mud

(28cm – 36cm)
light yellow grey

(36 – 58cm)
medium greyish green

(58 – 69cm)
light yellow grey

(69 – 81cm)
medium greyish green

(81 – 88) light yellow grey

(88 – 106) medium grey green

(106 – 116) light yellow grey

(116 – 142cm) medium grey green

(142 – end) light yellow grey

400-U1607A-65R-5-A | SHLF12756701



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20		1		4		0	(0 – 5cm) calc mud medium grey macrofossil → foram
20–40				3			(5 – 14cm) sandy mud dark greyish brown
40–60							(19cm – end) muddy sand calcite in burrows medium greyish brown stratified weak/faint laminations burrows concentrate macrofossils → foram
60–80							
80–100							
100–120							
120–140							
140–152							

Logged By: Et

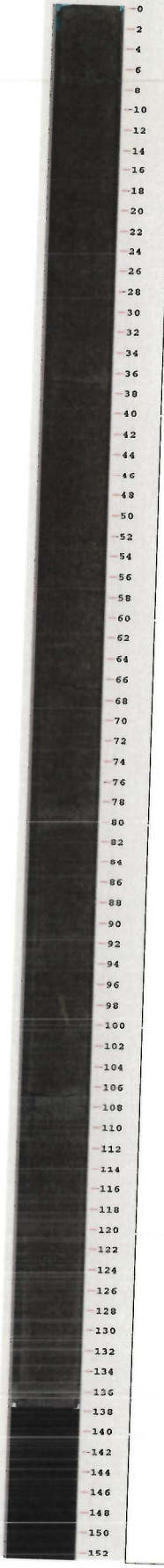
Date: 9/21

IW

400

400-U1607A-65R-6-A | SHLF12756731

Logged By:	Date:
ET	9/22



Comments

(0-150cm)
same as above

shell fragments
33-35cm

400

400-U1607A-65R-7-A | SHLF12756761

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: ET	Date: 9/21
	1		3		0	Comments	

CM Scale

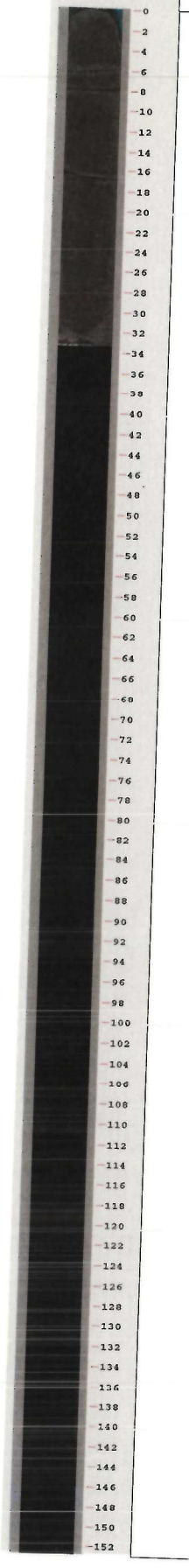
Shell fragment ~8cm

Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: ET	Date: 9/21
	1		3		0	Comments: (0–10 cm) same as above	
	1		1		1		

CM Scale

PAL

400-U1607A-66R-1-A | SHLF12757171



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: TF	Date: 9/22/23
			0		0	Comments: G- Base (34cm) muddy sand of Saturated dark brn grey	

400

400-U1607A-66R-2-A | SHLF12757201

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
0–152		0		1		
				0		
				2		

Logged By:

Date:

Comments

0 – 46 cm
as in prev core
scattered coarse sand
laminated

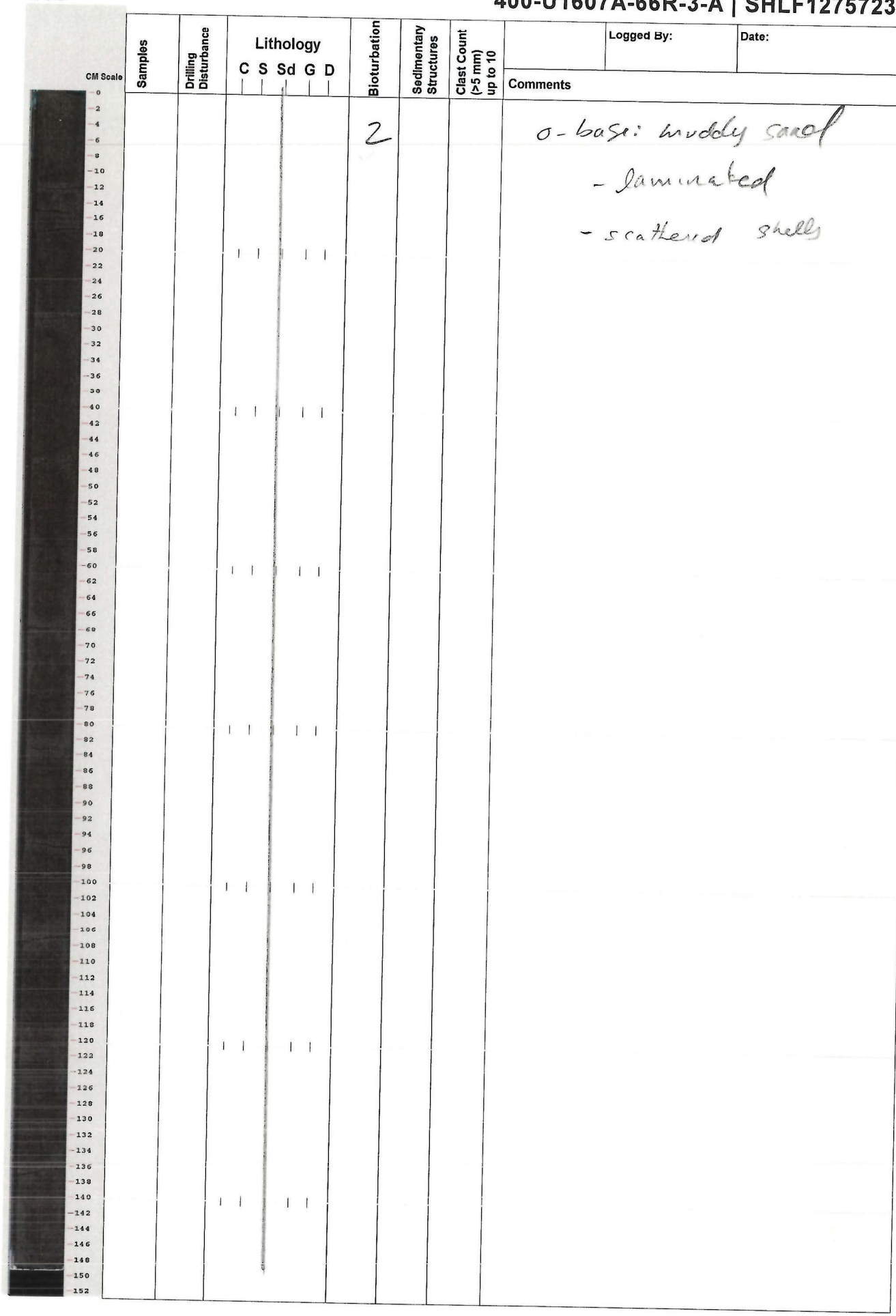
46-61 – dark grey mud
thick lams

61-82 – muddy sand
a few coarse sand grains

82: as 0-46

400

400-U1607A-66R-3-A | SHLF12757231

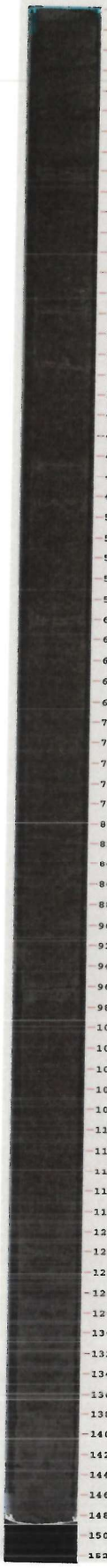


Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
						0-122: as in prev core
					2	laminated cross-strat?
					1	122-base: sandy mud dark grey

Logged By:

Date:

CM Scale



400-U1607A-66R-5-A | SHLF12757291

Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			3			Comments	

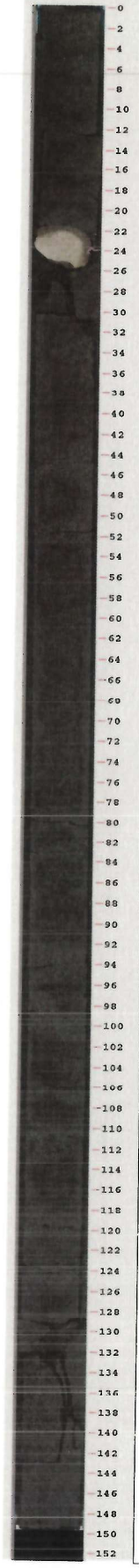
CM Scale

0-base:
muddy sand
lam.
x-strat?

scattered fossils

IW

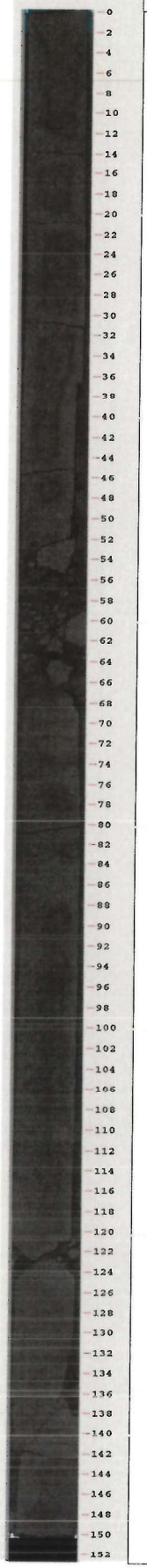
400-U1607A-66R-6-A | SHLF12757321



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	

0 - base as in prev. section

22-25 cm - $CaCO_3$ concretion



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10		Logged By:	Date:
						Comments		

as prev section

400-U1607A-66R-8-A | SHLF12757381



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
0–152						

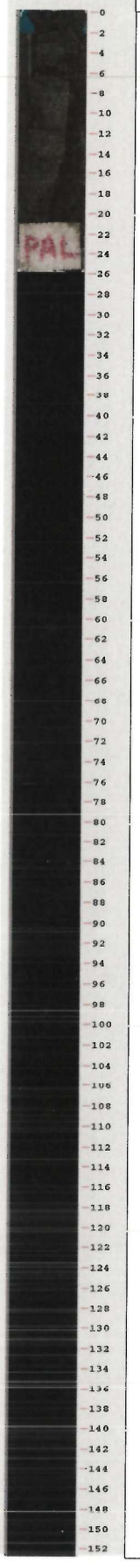
Logged By:

Date:

Comments

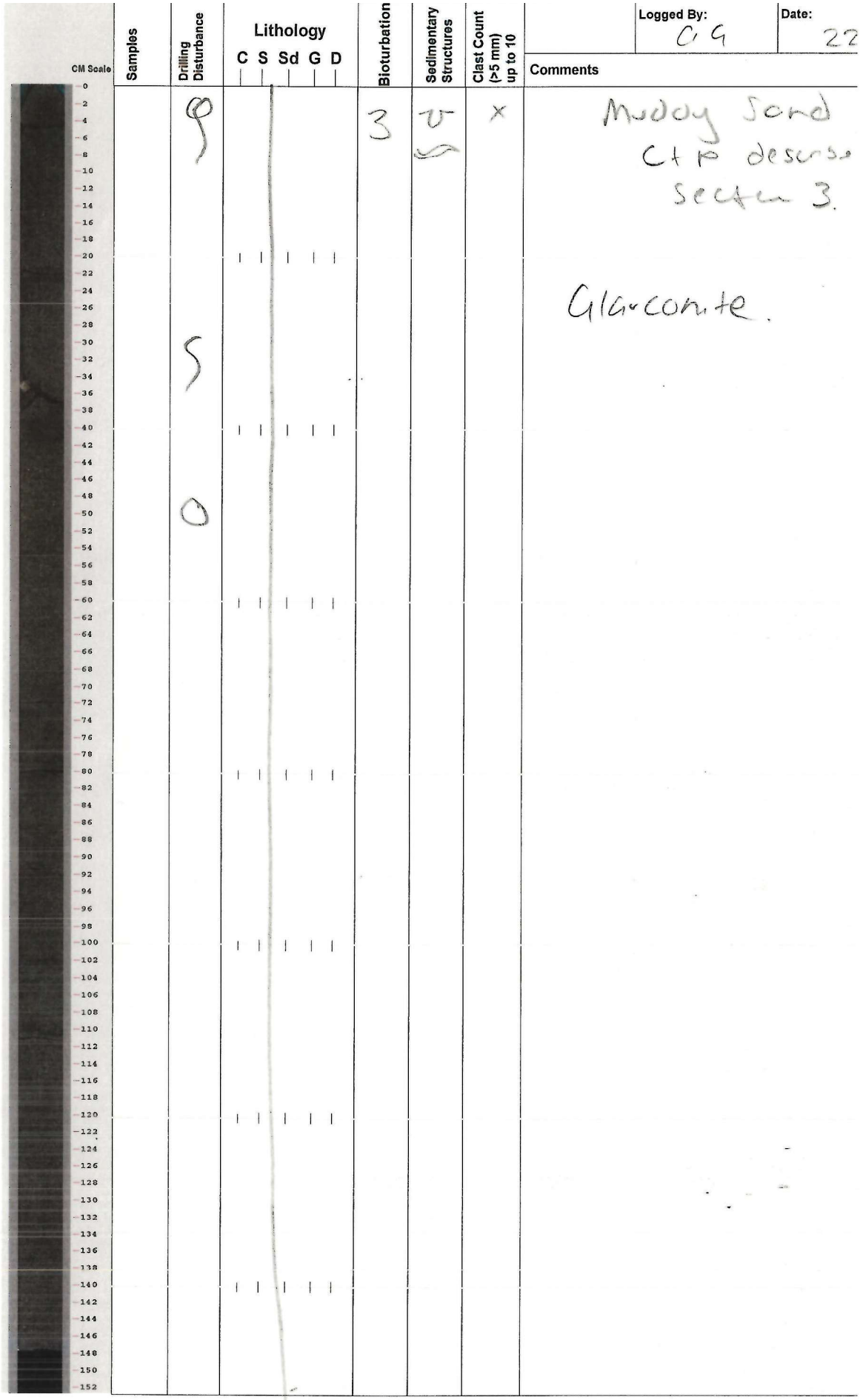
as prev. section

400-U1607A-66R-CC-A | SHLF12757411



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10		Logged By:	Date:
						Comments		

as prev. sect.



Logged By:	Date:
C G	22

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0							
2							
4		9		3	v	x	Muddy Sand
6							Ct p descrs
8							Section 3.
10							
12							
14							
16							
18							
20							
22							
24							
26							Glauconite.
28							
30							
32		5					
34							
36							
38							
40							
42							
44							
46							
48							
50		0					
52							
54							
56							
58							
60							
62							
64							
66							
68							
70							
72							
74							
76							
78							
80							
82							
84							
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100							
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136							
138							
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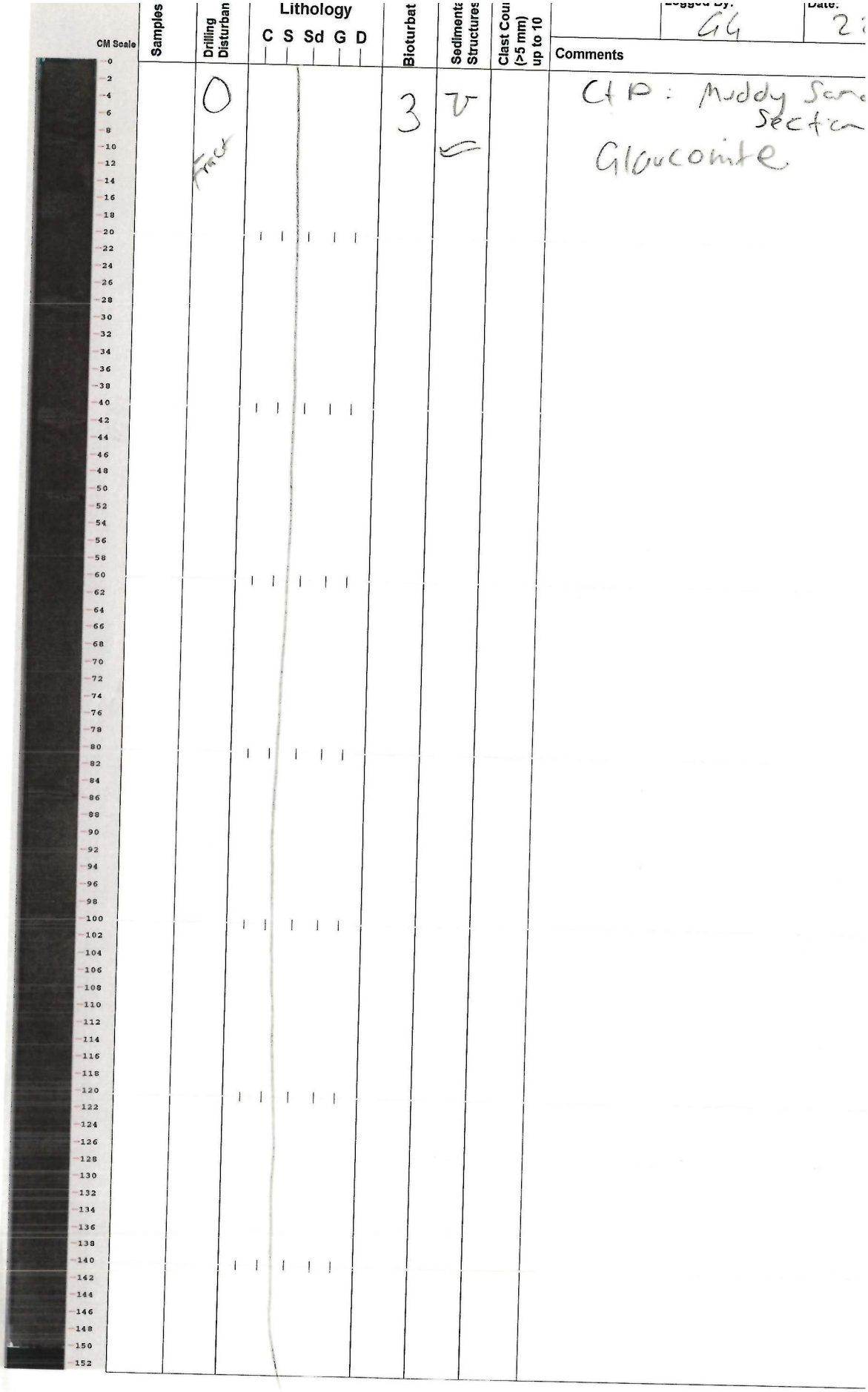
142							
144							
146							
148							
150							
152							



CM Scale	Samples	Drilling Disturban	Lithology C S Sd G D	Bioturbat	Sedimenta Structures	Clast Cou (>5 mm) up to 10	Comments
0		0		3	V		Ct P: Muddy Sand Section
2							
4							
6							
8							
10		Fract			⌐		Glauconite
12							
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							
36							
38							
40							
42							
44							
46							
48							
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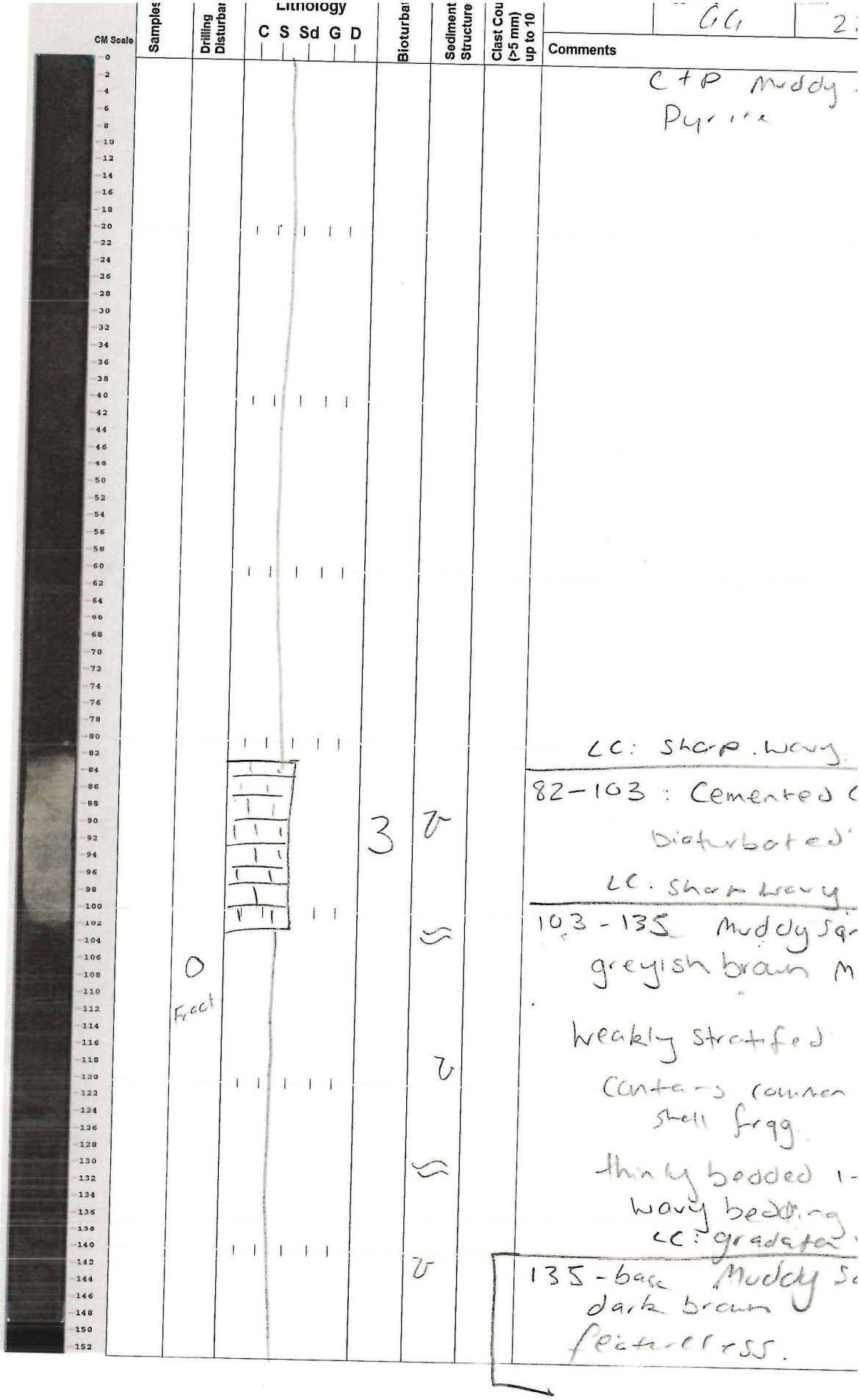
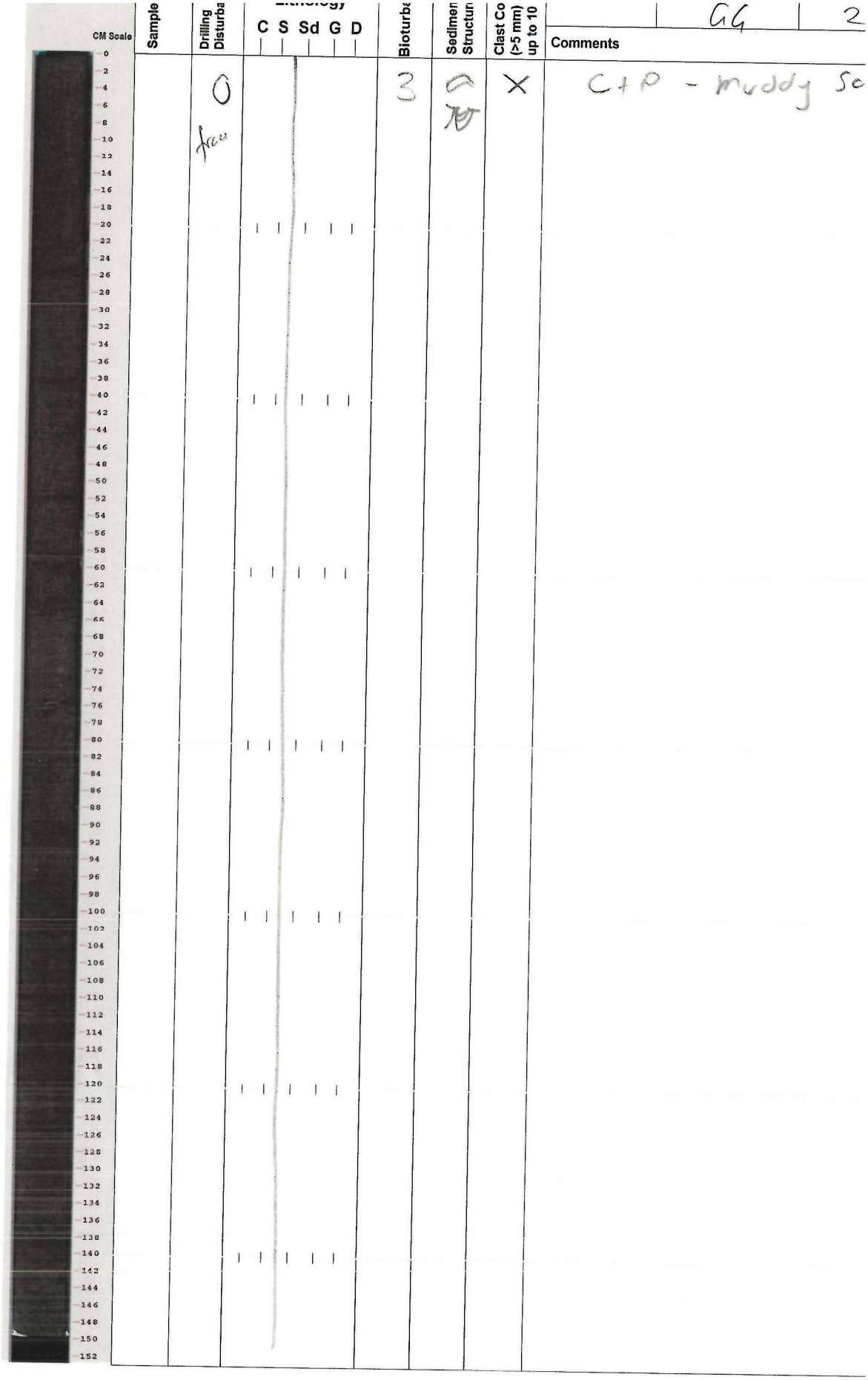
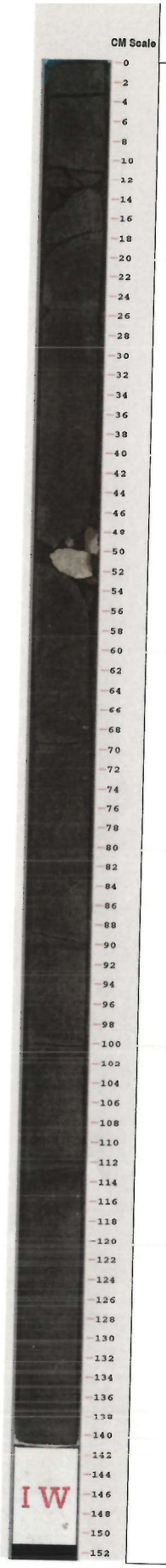
144							
146							
148							
150							
152							

Logged By: GG

Date: 2


CM Scale
Samples
Drilling Disturbar
Lithology
C S Sd G D
Bioturbat
Sediment Structure
Clast Cou (>5 mm) up to 10
Comments
GG
2
C+P Muddy
Pyrite
LC: Sharp. wavy
82-103 : Cemented C
Bioturbated
LC: Sharp wavy
103-135 Muddy Sa
greyish brown M
weakly stratifed
Contains common
shell frag.
thinly bedded 1-
wavy bedding
LC: gradation
135-base Muddy S
dark brown
featureless.
3
0
Fract


CM Scale
Sample
Drilling Disturba
Lithology
C S Sd G D
Bioturba
Sedimen Structur
Clast Co (>5 mm) up to 10
Comments
GG
2
0
3
X
C+P - muddy Sa



Sample	Drilling Disturba	Lithology C S Sd G D	Bioturba	Sedimen Structure	Clast Co (>5 mm) up to 10	GG	2
	0		?	?	X	Comments	

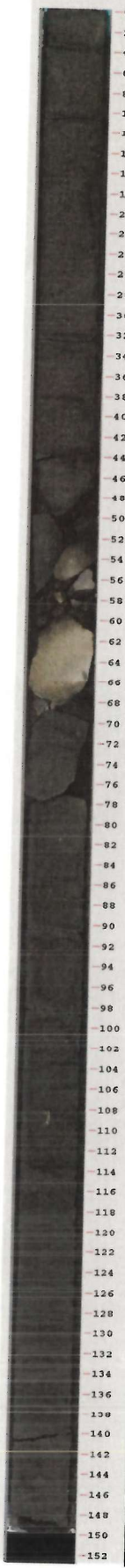
0-29 Muddy Sand
Dk brown
featureless

LC: grad 5cm

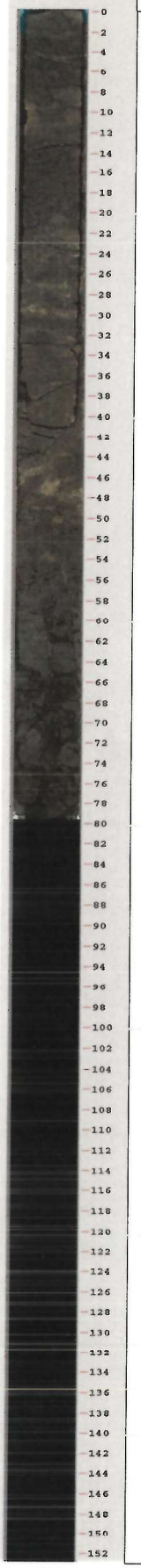
29-base C+P
Muddy Sand
med grey

3

50-54
Concretion nodule



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sediment Structure	Clast Cou (>5 mm) up to 10	Comments
0							0-83 Muddy Sand C+P above FORAM
20							
40							
46							46-78 - DD: Bisu
52							52-68 Cemented
80							LC: grad → 50C
83				4	≈	✓	83-base Mud w/ Sa weakly stratified - Pyratised burrows
100							thin wavy beddin
110							Sparse Shell frags



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: GG	Date: 22
						Comments	
	Y			X	X	0-3 Mud w Sand	
			4			3- base clay rich	
						Light brown + m grey.	
						Creamy brown is (calcareous)	
	Y					Heavy bioturbat	
			4			no strat	
						no fossils	
	M						
	M Broken						
	M						



CM Scale	Samples	Drilling Disturban	Lithology C S Sd G D	Bioturbat	Sediment Structure	Clast Cou (>5 mm) up to 10	Comments
0							
2							
4				4	x	x	As above
6							
8							
10		3					
12							
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							
36							
38							
40							
42							
44							
46							
48							
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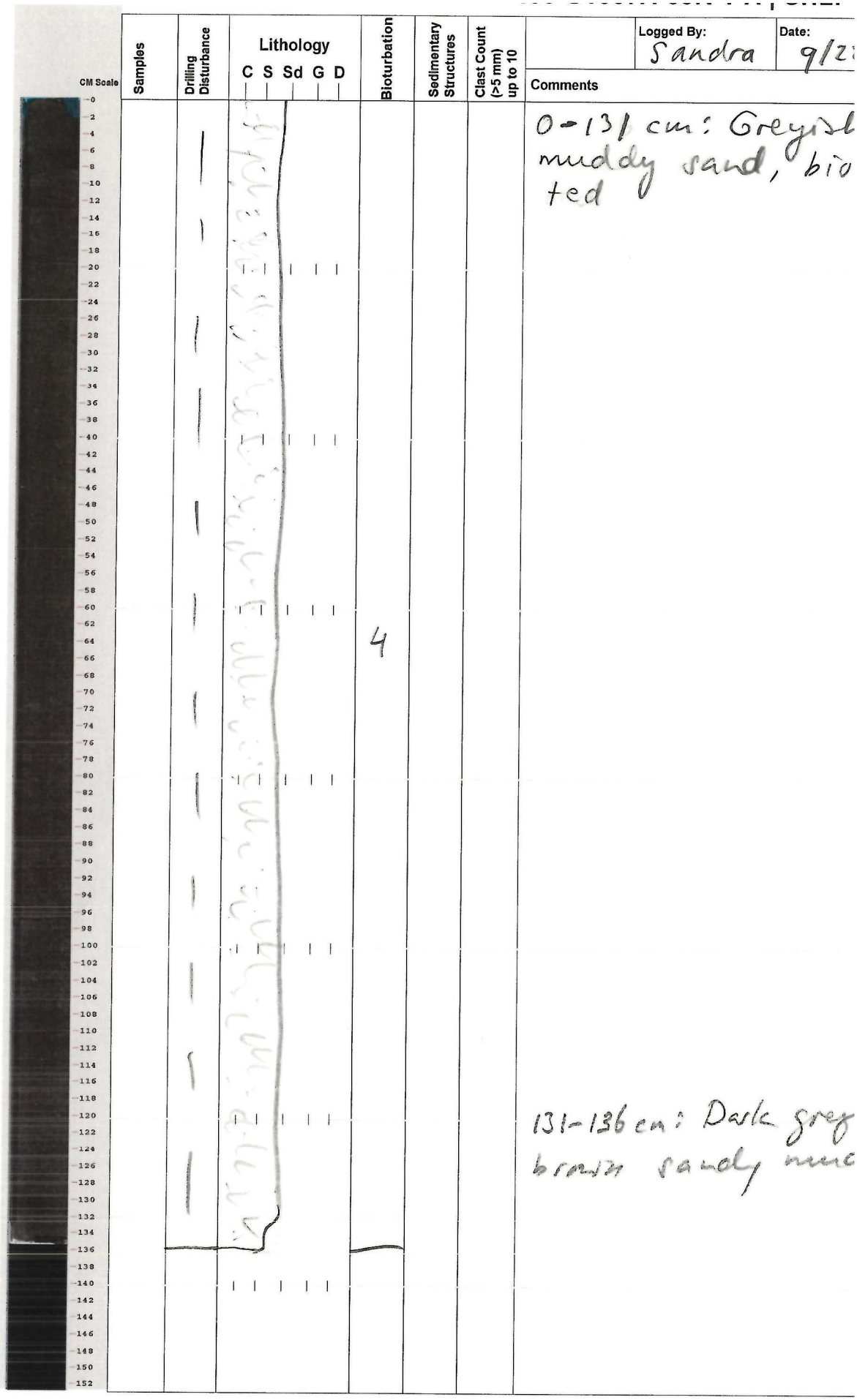
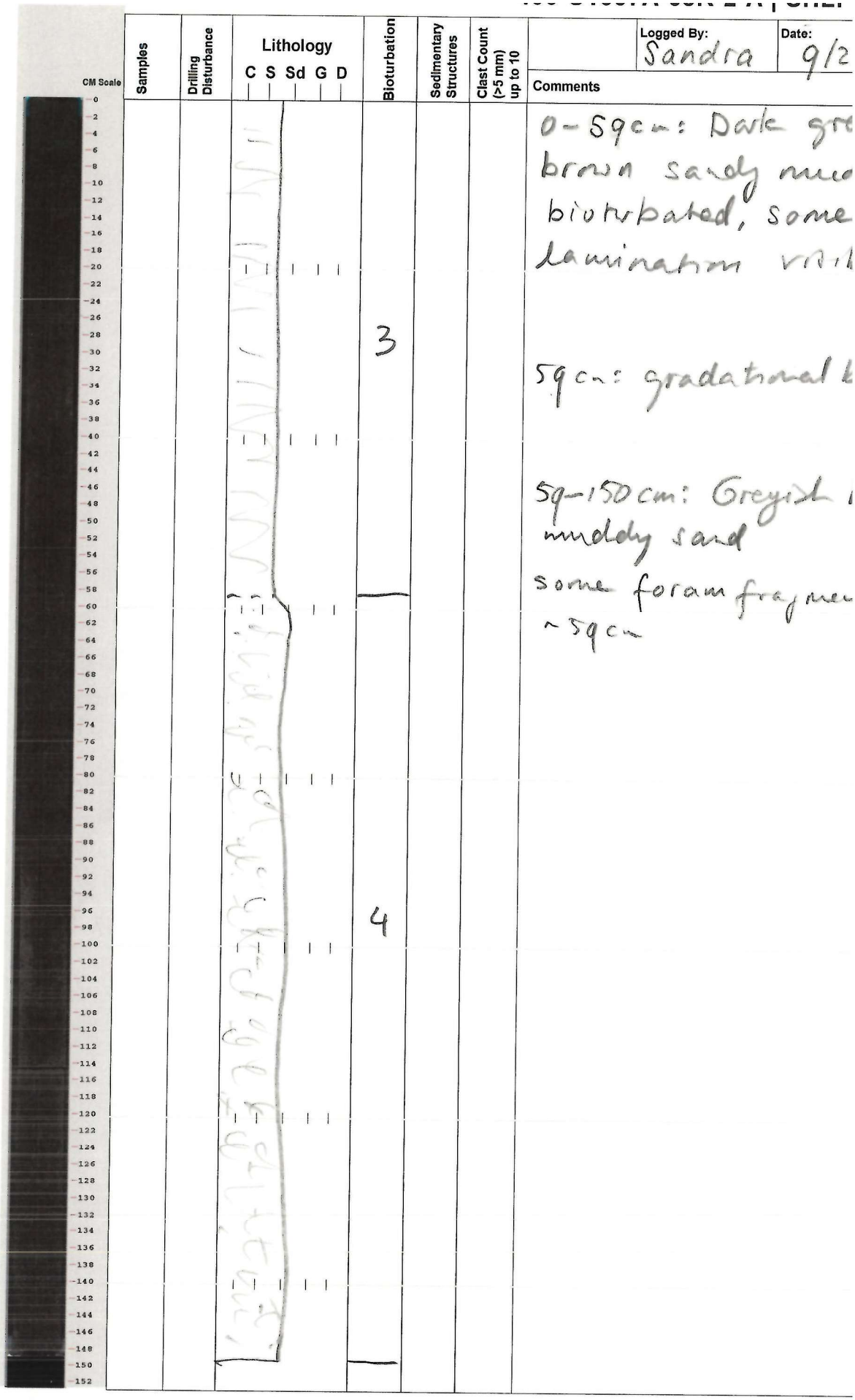
148							
150							
152							

64 22


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Sandra
Date:
9/2
Comments
0-131 cm: Greyish muddy sand, bio ted
4
131-136 cm: Dark grey brown sandy mud

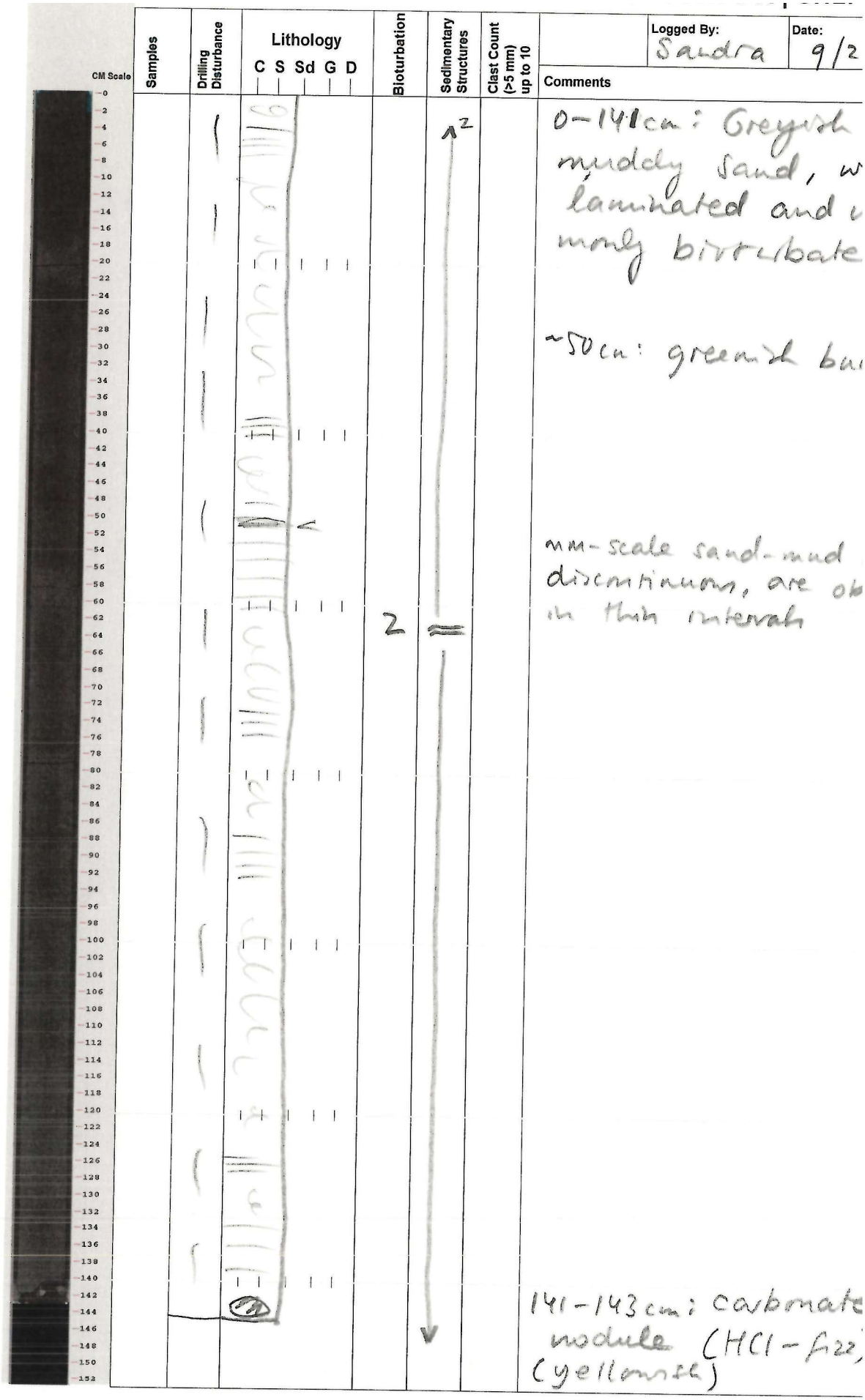


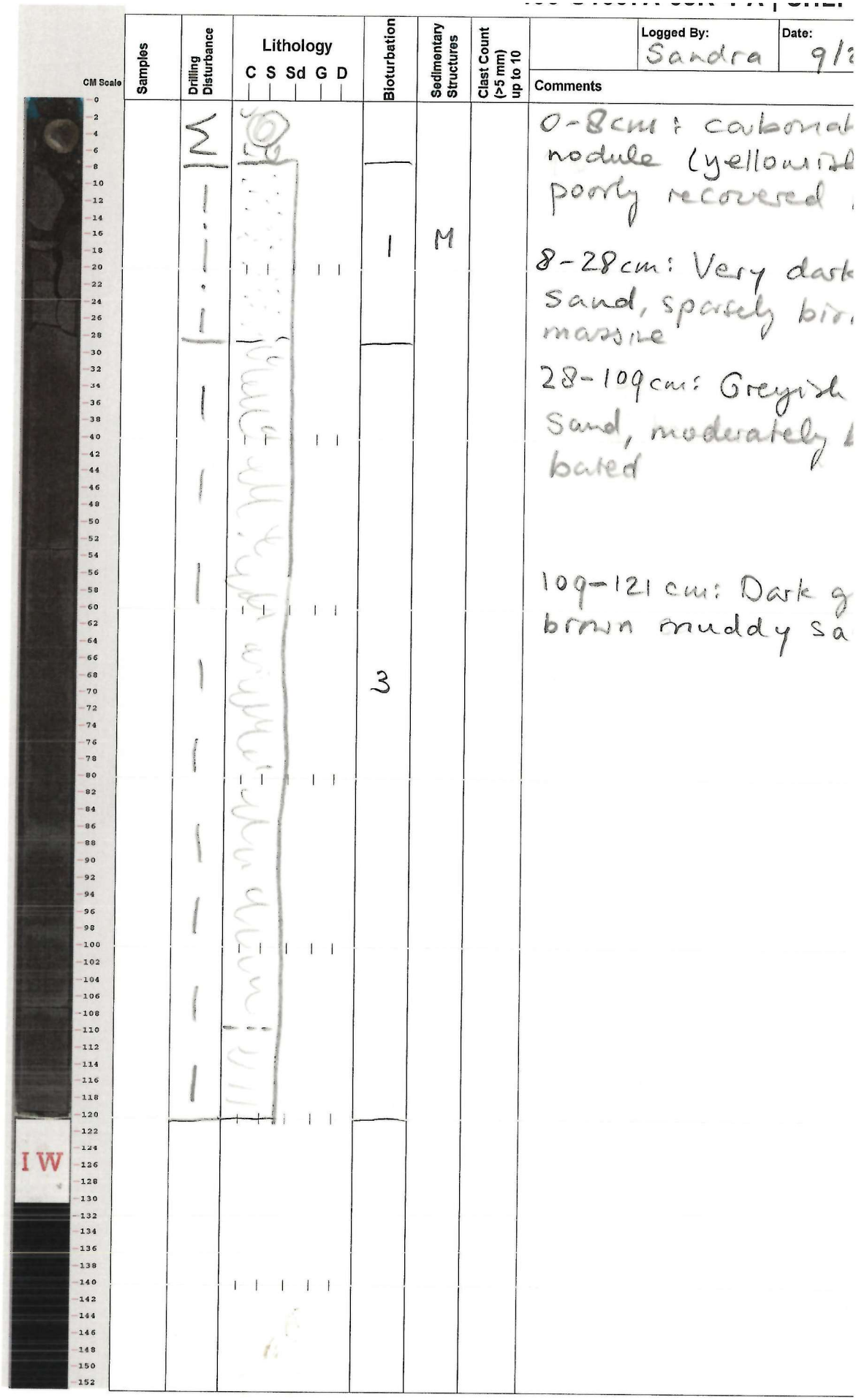
Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
			3			0–59cm: Dark gre brown sandy mud bioturbated, some lamination visib
						59cm: gradational b
						59–150cm: Greyish muddy sand
						some foram fragmen ~59cm
			4			

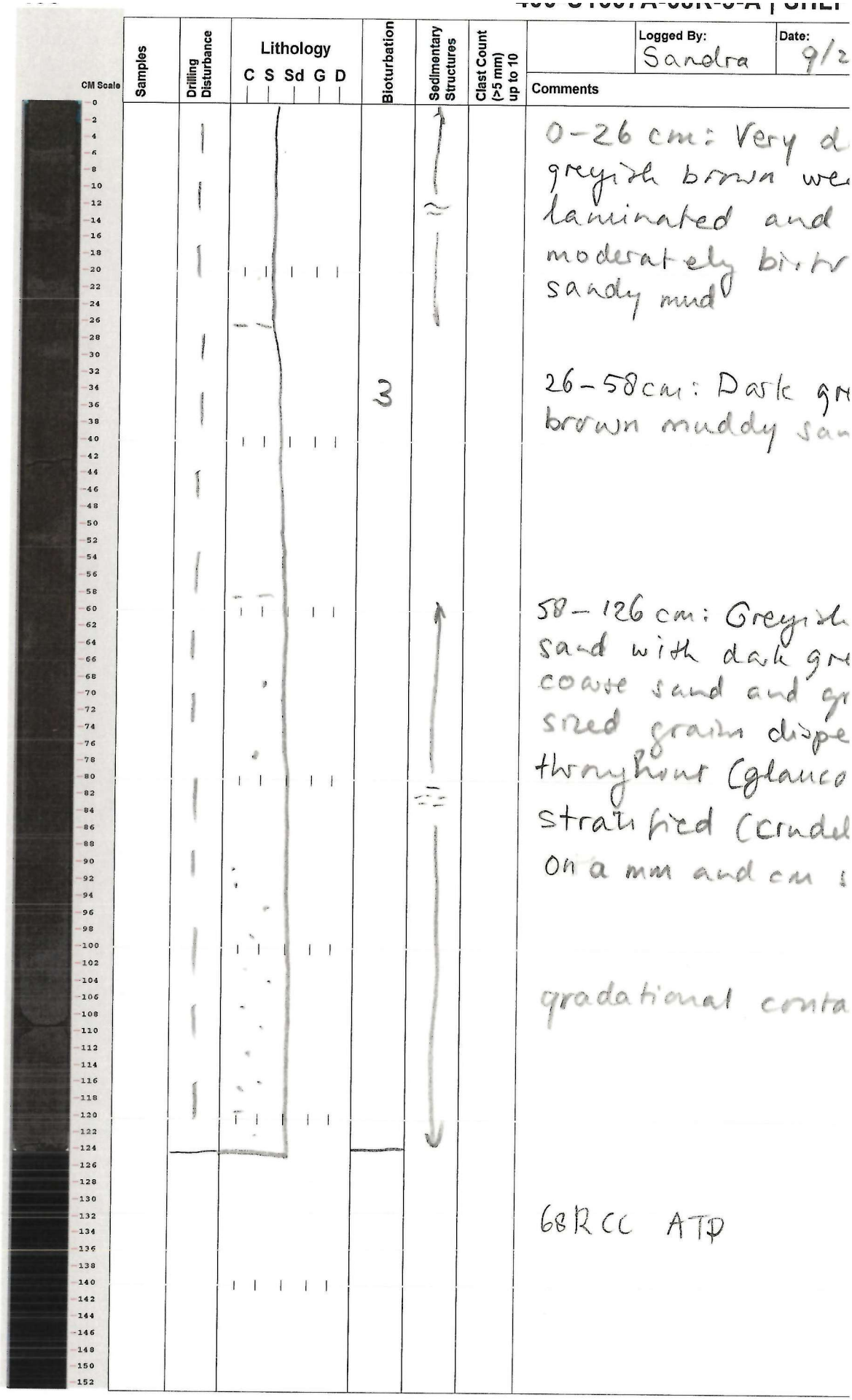
Logged By: Sandra

Date: 9/2

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


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Sandra
Date:
9/2
Comments
0-141cm: Greyish
muddy sand, w
laminated and
mony bioturbate
~50cm: greenish bu
mm-scale sand-mud
discontinuous, are ob
in this interval
2
141-143cm: carbonate
nodule (HCl-fizz,
(yellowish)


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Sandra
Date:
9/
Comments
0-8cm : carbonat
nodule (yellowish
poorly recovered
8-28cm: Very dark
sand, sparsely bio
massive
28-109cm: Greyish
Sand, moderately
bated
109-121 cm: Dark g
brown muddy sa
M
1
3
IW


Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
CM Scale
Logged By:
Sandra
Date:
9/2
Comments
0-26 cm: Very d
greyish brown we
laminated and
moderately bi.tr
sandy mud
26-58cm: Dark gr
brown muddy san
58-126 cm: Greyish
sand with dark gr
coarse sand and gr
sized grains dispe
throughout Cglauco
stratified Ccrudel
on a mm and cm
gradational conta
68R CC ATD

Logged By: BR

Date: 9/



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152				3			slight (fractured) di
							0-78: dark-brown, weakly stratified mud
							78-end: medium-bioturbated, weakl muddy sand dispersed glauc grains (up to (sand up to lowe

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: BR	Date: 9
						Comments	

CM Scale

Slight (fractured) di

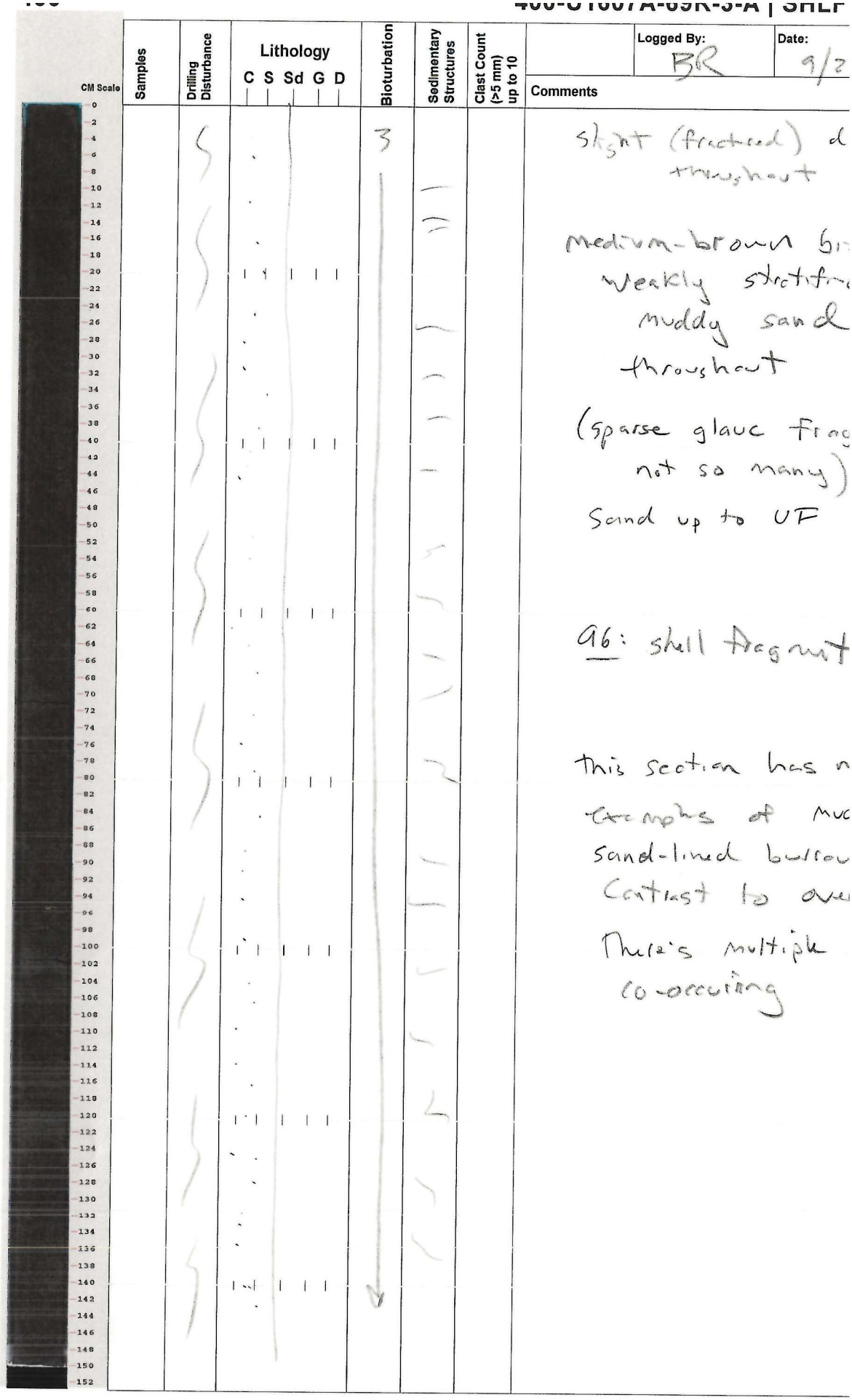
Medium-brown bioti
weakly stratifie
muddy sand
throughout

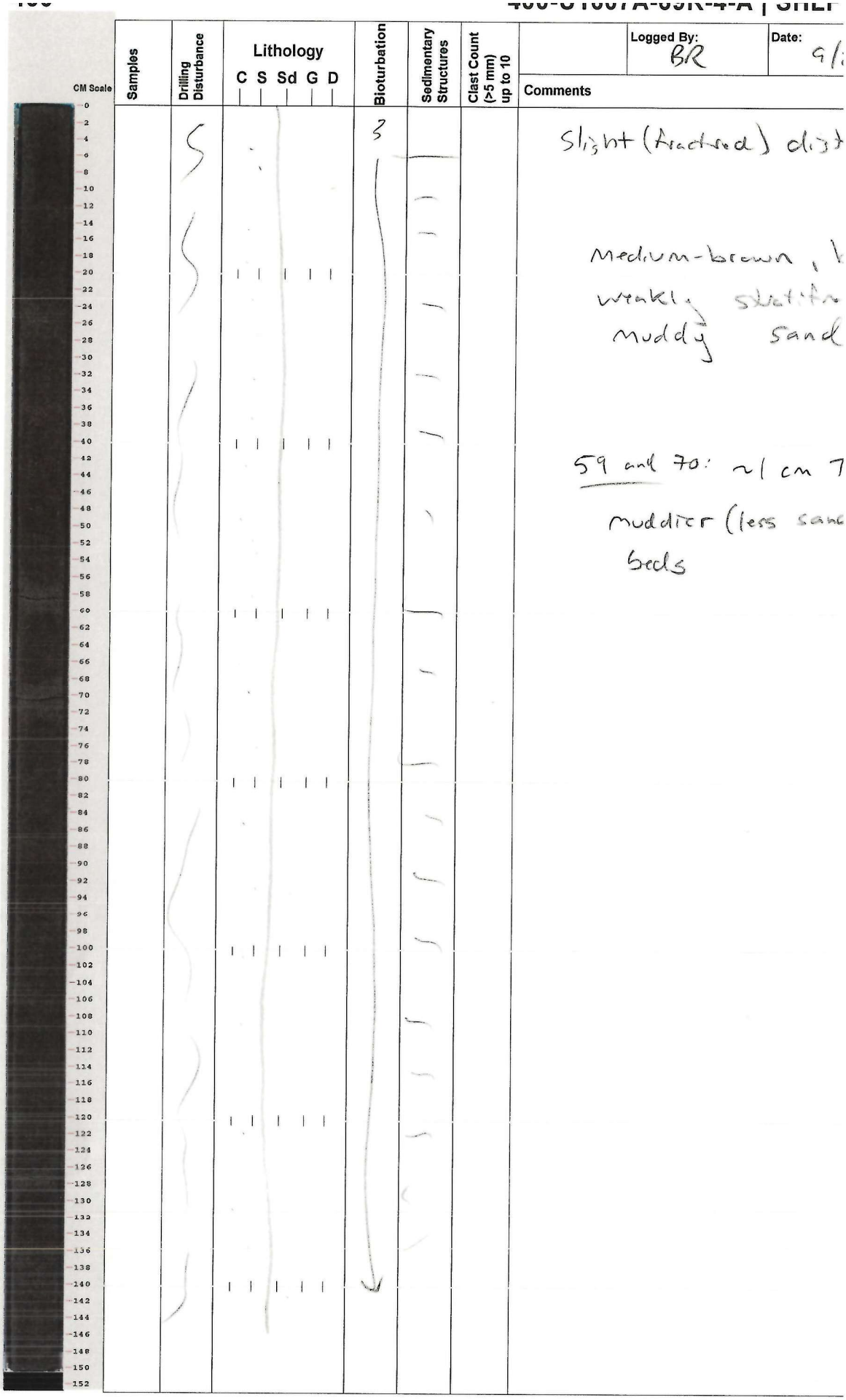
- a few burrow fills
well-sorted white (q
sand grains and
larger (~1mm) gla
grains... The cli
the larger partic

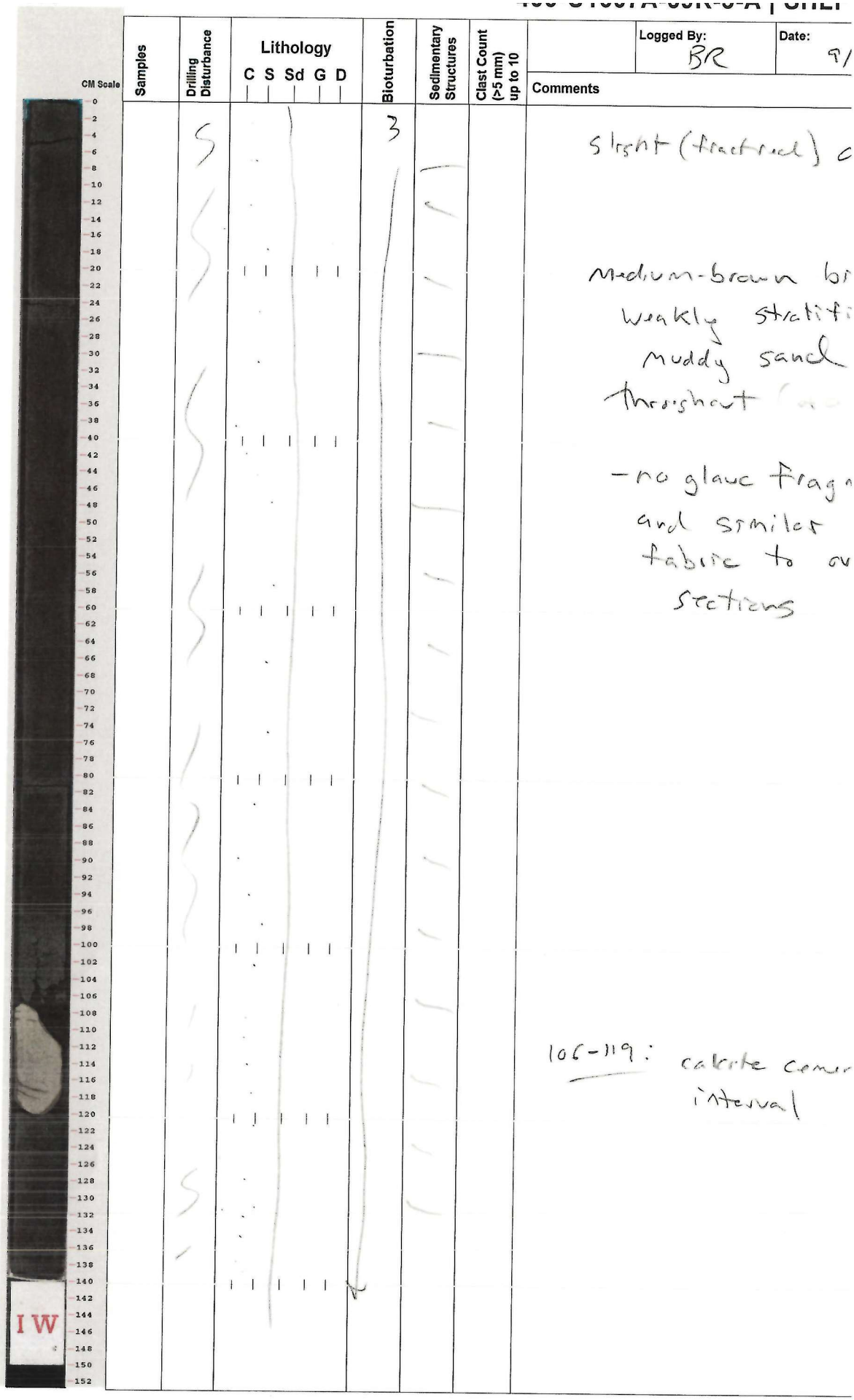
- other burrows are
w/ sand, but li
w/ mud

1-1-2 mm




CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
BR
Date:
9/2
Comments
slight (fractured) d
throughout
medium-brown bi
weakly stratifi
muddy sand
throughout
(sparse glauc fra
not so many)
Sand up to UF
96: shell fragmt
this section has n
examples of muc
sand-lined burrow
Contrast to over
There's multiple
co-occuring


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By: BR
Date: 9/
Comments
Slight (fractured) dist
Medium-brown, l
wrinkl
muddy
sand
59 and 70: ~1 cm T
muddier (less sand
beds


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
BR
Date:
Comments
slight (fractured) c
Medium-brown bi
weakly stratifi
muddy sand
throughout
-no glauc frag
and similar
fabric to ov
sections
106-119: calcite cemer
interval
IW

Logged By:	Date:
BR	9/2



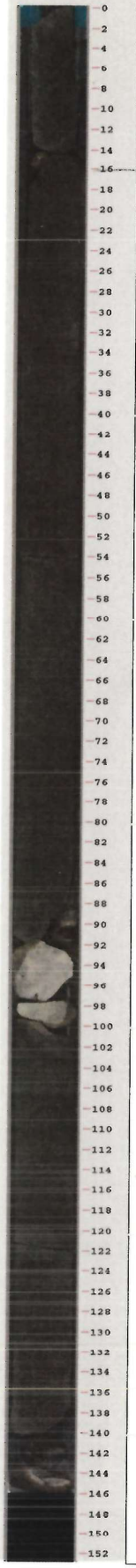
CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0							
2							
4				3			slight (fractured) d
6							
8							
10							
12							
14							
16							
18							
20							
22							medium-brow
24							
26							
28							bioturbid, wea
30							
32							
34							stratified sm
36							
38							
40							sand
42							
44							
46							
48							
50							
52							
54							
56							39: shell fragment
58							
60							
62							
64							
66							
68							
70							
72							
74							
76							
78							
80							76: concretion
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							

Logged By: BR

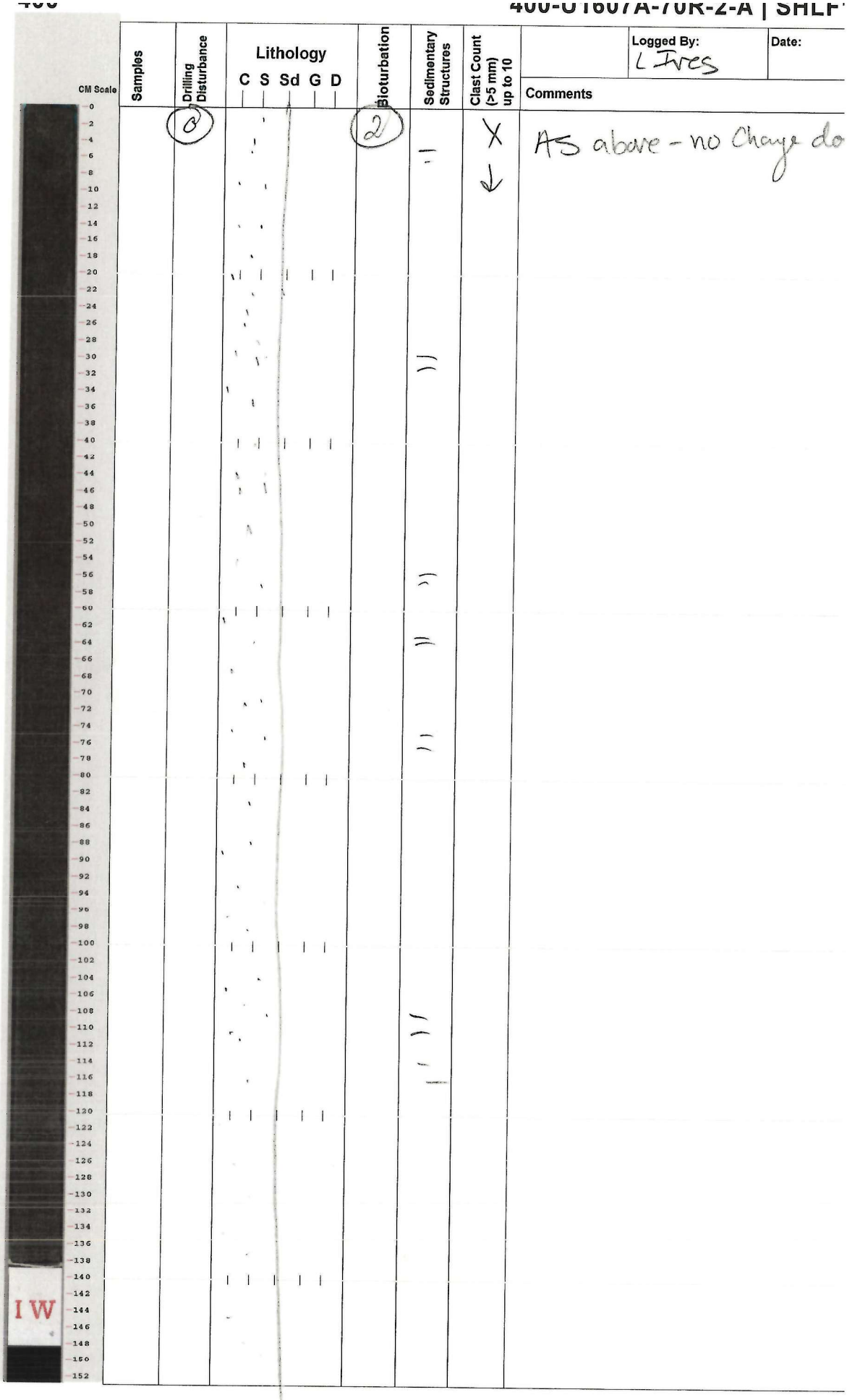
Date: 9/



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0							
2				3			
4							
6							24-58: strongly b
8							Clast is slightly
10							
12							
14							
16							
18							
20							
22							
24							
26							
28							
30							24-41: cemented int
32							
34							
36							
38							
40							
42							Medium-brown
44							weakly strati
46							muddy sa
48							
50							
52							
54							
56							
58							
60							
62							
64							
66							
68							
70							
72							
74							
76							
78							
80							base of sectu
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							

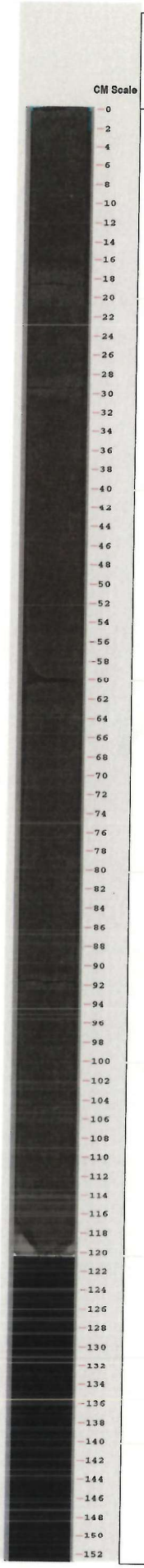


CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: LIves	Date: 22 Se
							Comments	
0–16		(1) fall-in					0–16cm fall-in	
16–116		(1) fall		(2)	=	X	~~0~~ 116cm 0-end	
116–end					=	↓	↳ med brown muddy sand	
					=		↳ sand is very-fine grain and a light tan color	
					=		↳ mud is dk brown	
					=		↳ bioturbated laminations	
91–102		(2)			=		91–102 cm - calcite concret ↳ (2) DD → fracte	
					=			
					=			
					=	


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
L Ives
Date:
Comments
0
As above - no change do
2
IW

Logged By: L Ives

Date: 22 S



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20		1 ↓ frac.		2	–		As above. ~~Com~~ Couldn't find anything to call out. A
20–40							
40–60							
60–80							
80–100							
100–120							
120–140							
140–152							



CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–10		(4) 10cm		(2)			As above
10–37		(4) fractured, brecciated					As below, brecciated
37–38							
38–152		(1) fract.		(3)			Med brown sandy mud, but darker brown + more bioturb (laminae un

Logged By:

Date:

107cm – end ~~[illegible]~~ ↳ cemented interval (carbonate)

Logged By: L. Ives
Date: 22 Se



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20				3	=		dk brown muddy sand 0-47 cm
20–40							son d
40–48							@31-36cm ↳ glauconite filled
48–50							grad. @47 cm
50–60				2			med brown muddy sand ↳ glauconite grains present.
60–80							
80–100							
100–120							
120–140							
140–152							

IW

Logged By: L. Ives

Date: 22 S



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20		1 frac.		2	=	X	med brown muddy sand
20–40							glauconite present, but becomes less abund downcore.
40–60							C 21cm ↳ big shell carbonate interior
60–80							
80–100							C66
100–120							
120–140							

X many shells -

Reconstruction of the paleoceanographic environnement at Site U1607

Sanding via of shell every

Geochemistry on shells fragments.

Make a powder of cleaned fragments (buffered DDW + H2O2 for OM removal)

Sequential analyses depending of the amount of material

powder < 1 mg (min 0.4 mg for OES):

Analyse 1 : **Sr/Ca and Mg/Ca** (can be done with OES or Quad ICP)

indication of the recrystallisation of the calcite

- ⇨ Sr/Ca = 1-3 mmol/mol: possibility to have T°C combined with $d^{18}O$
- ⇨ Sr/Ca > 10- 15 mmol/mol: Sr diagenetic enrichment, usually prevent T°C measure / But doe not necessarily imply a change in the $^{87}Sr/^{86}Sr$

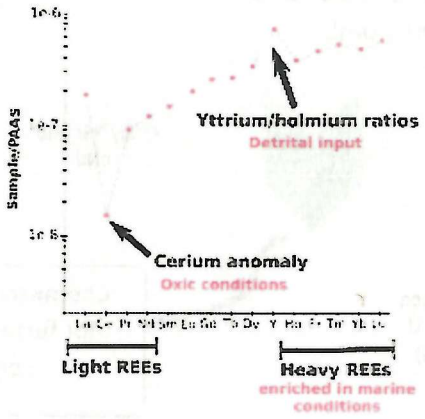
Can always get this

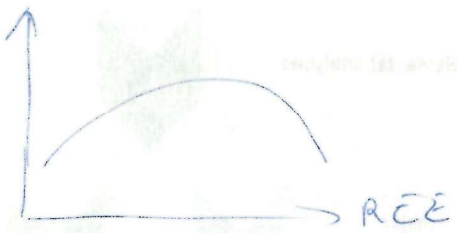
powder = <300 mg:

Analyse 1 : **Sr/Ca and Mg/Ca**

Analyse 2 : **REE pattern** (Quad ICP- min conc 20 ppb)

- ⇨ indication of the preservation of the seawater elemental concentration for lanthanide and actinides





Ce anomaly preserved ➔ oxygen indicator

Good seawater pattern ➔ measure of U/Ca possible + confidence in the ε_{Nd} absolute value for seawater traceability

Shell bell pattern ➔ diagenesis (enrichment in Mid REE). Nd can be still performed but less confidence in the absolute value, interpretation in term of trend and $\Delta\ \varepsilon_{Nd}$ shift (more or less radiogenic)

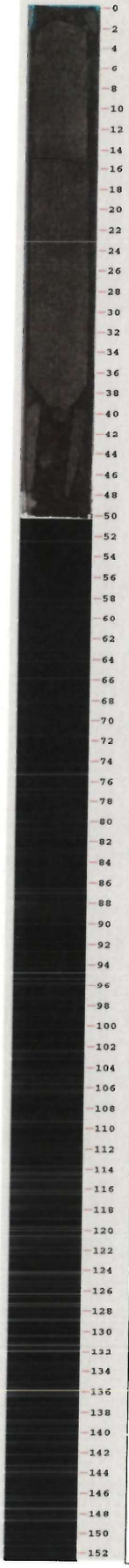
- ⇨ REE concentration need to be measured to correct ε_{Nd} for age (Sm/Nd ratio)



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–48		3					muddy sand dar grey b greenish fle black sand
48–84		1		3		3	medium grey br sandy mud b
84–92	85						cemented calcite mud.
92–152		2		3		3	medium grey sandy mu

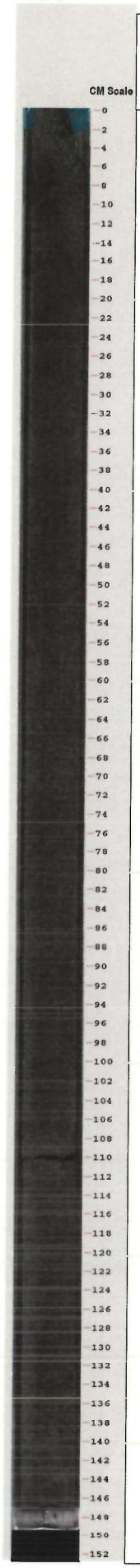
Logged By:

Date:



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

sandy mud
medium gray
burrows



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0							muddy sand da
2							grey l
4							
6							
8							
10							
12							
14							
16							
18							black /green
20							
22							
24							
26				3			
28							
30							
32							
34							
36							
38							
40							
42							
44							
46							
48							
50							
52		0					
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							

Logged By:

Date:

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
						Logged By: Date:



muddy s-d
medi- bro
dark

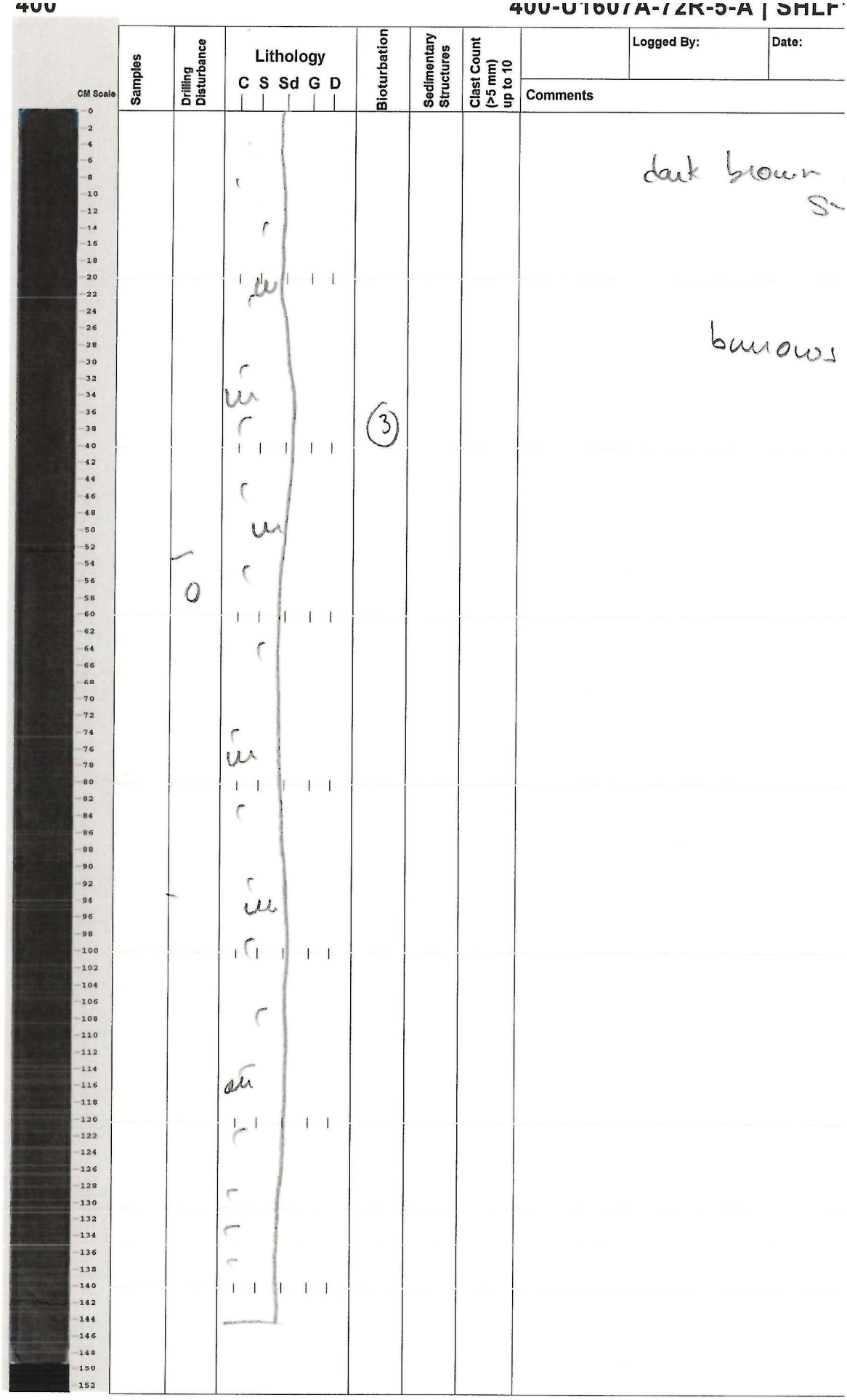
- greenish fl

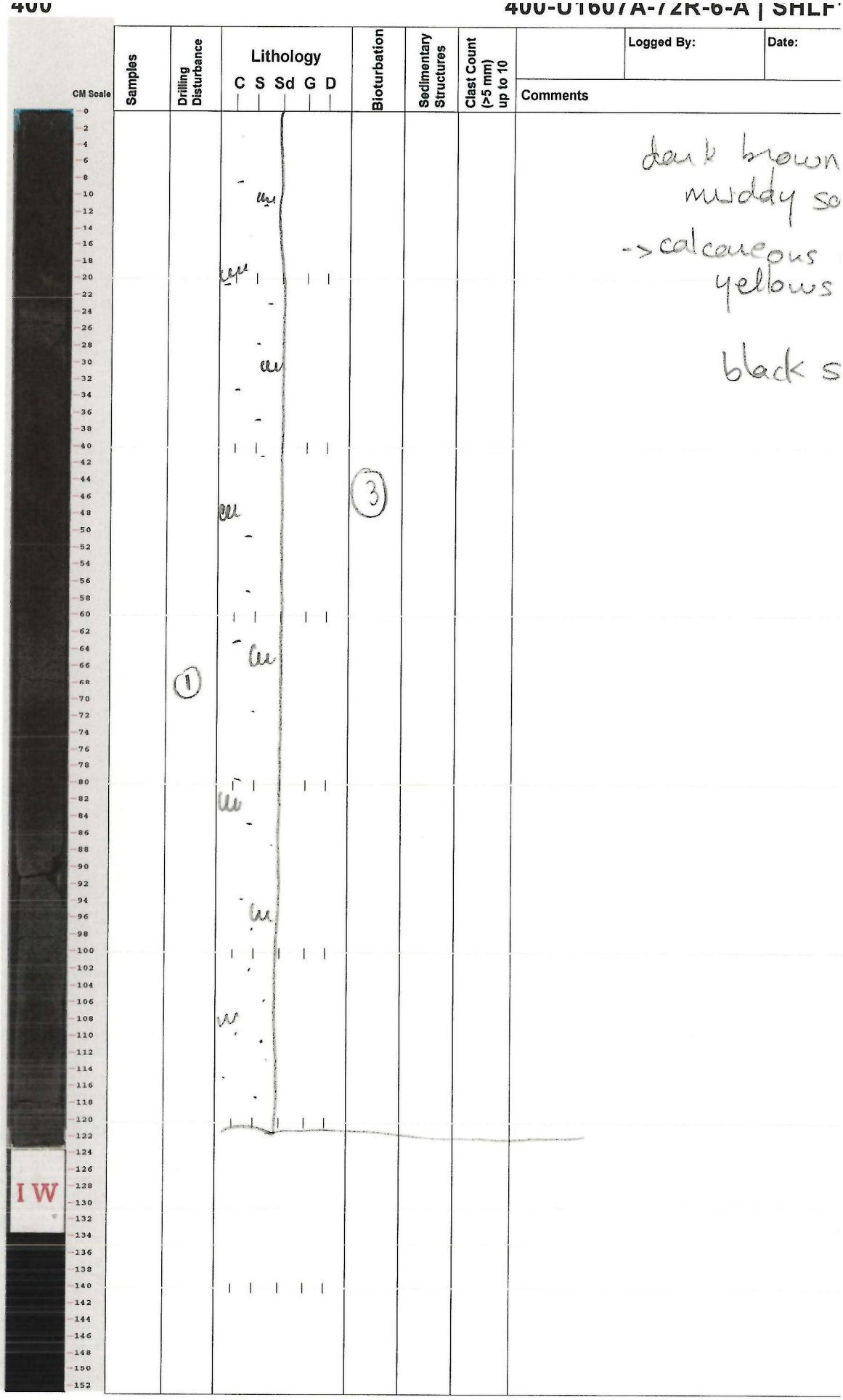
- bleb of c
yellow

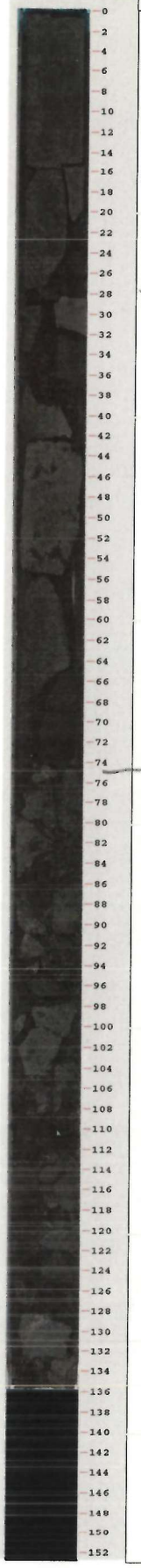
burrow

(3)

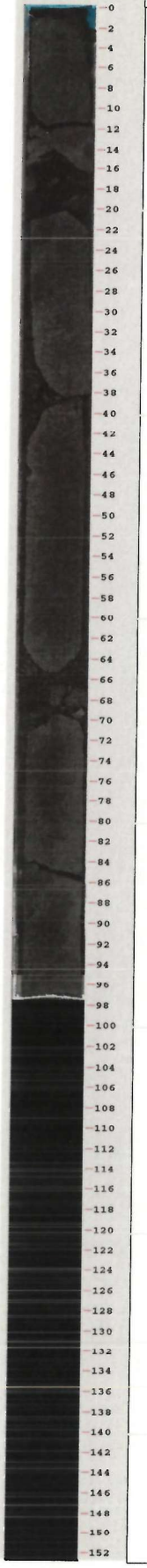
0


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Date:
Comments
dark brown
burrows
3
0


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Date:
Comments
dark brown
muddy so
-> calcareous
yellows
black s
1
3
IW



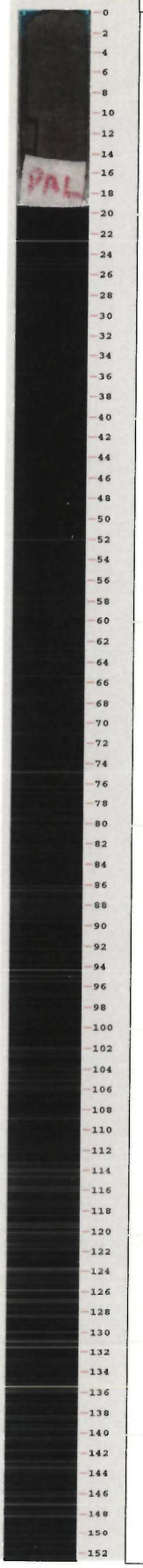
Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: / Date: / Comments
	2		3			dark brown muddy black s-
	3					dark green muddy dark green s
	75					
	3		2			sandy mu dark gre burrows. dark gre



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	

muddy sand
dark brown

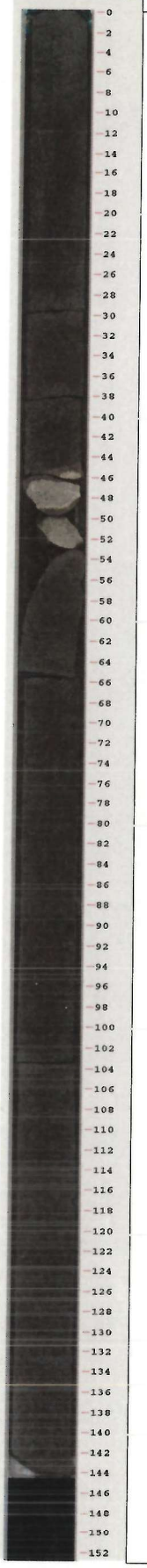
burrows



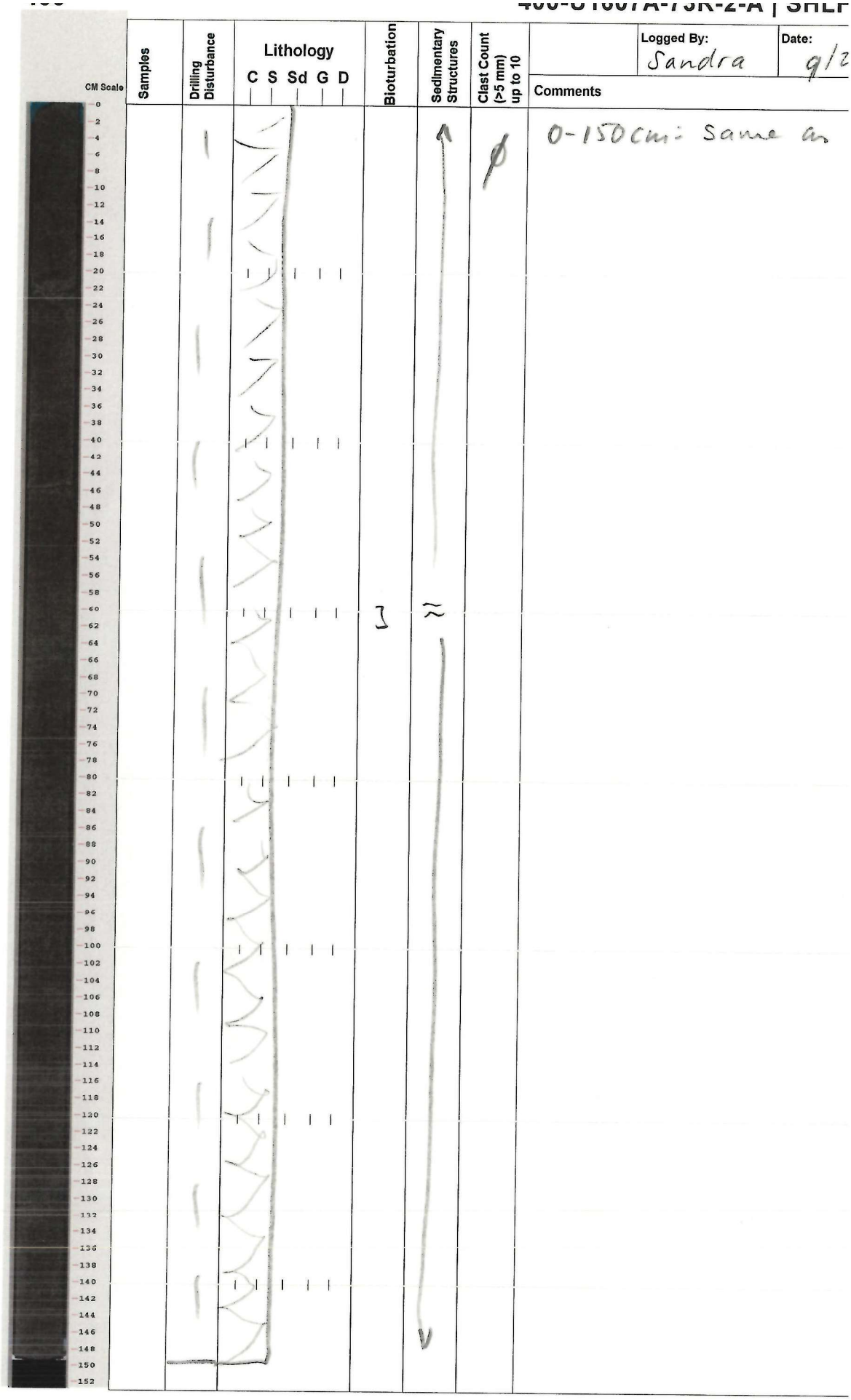
Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
	0		(3)			Comments: dark brown g muddy sa burrows	

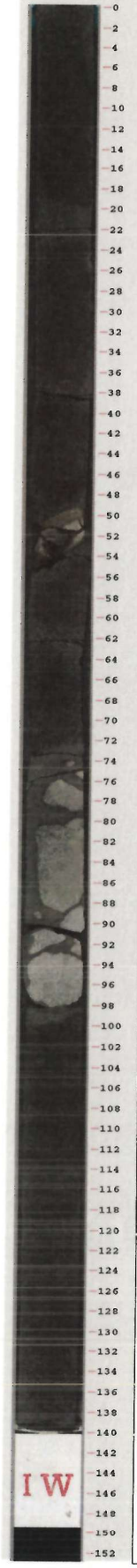
Logged By: Sandra

Date: 9/2



CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–144						∅	0–144cm: Very da greyish brown muddy sand, weak laminated and m bioturbated, numerous black gr in the sand fraction
44–54	46	4 4		3	≈		46–54cm: carbonate concretions, yellow


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Sandra
Date:
9/2
Comments
0-150 cm: Same as



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: Sandra	Date: 9/2
						Comments	

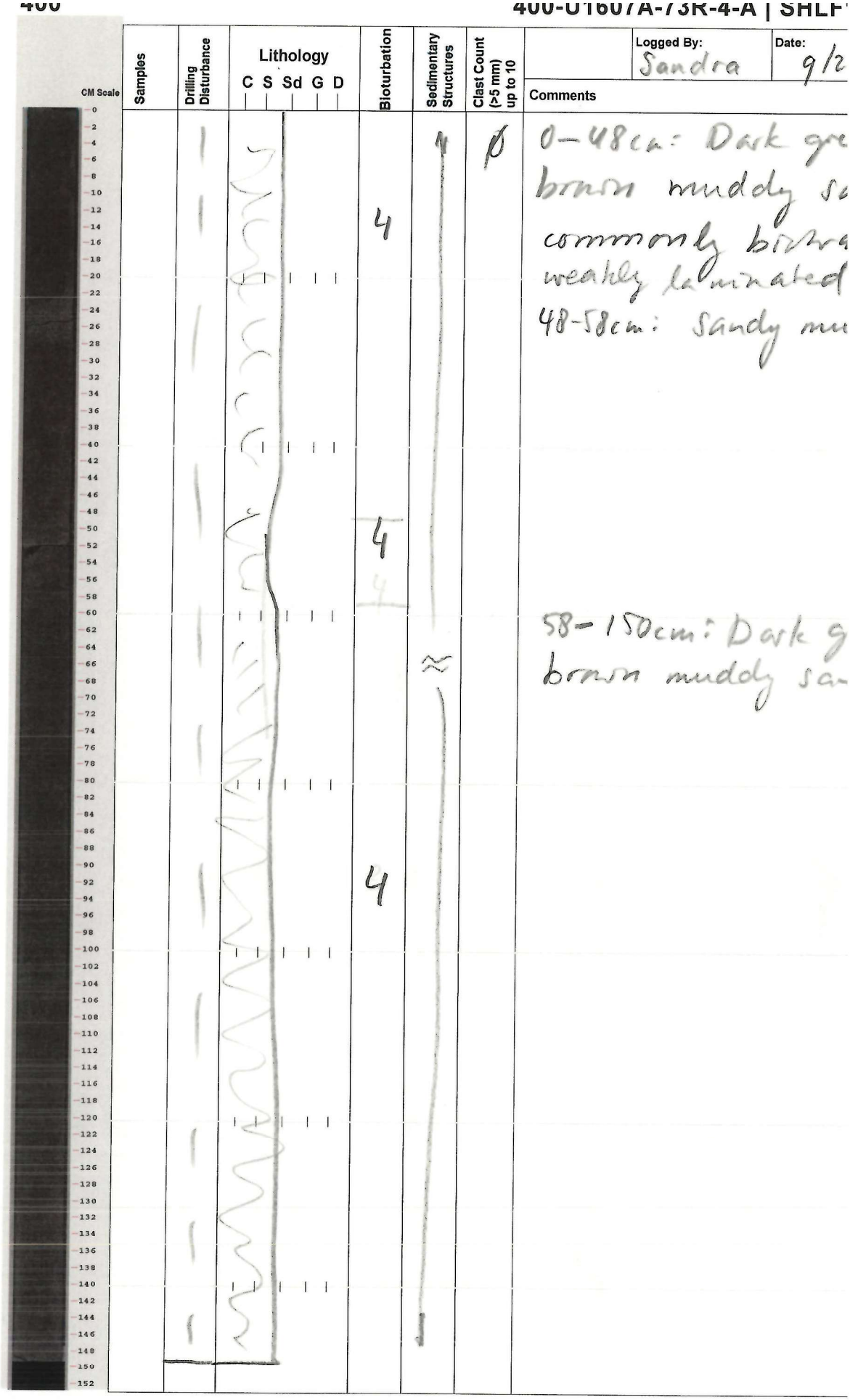
0-73 cm: same as
carbonate concre
at 50-55cm and

50
55

3

73-101cm: yellowish
carbonate cement
sand

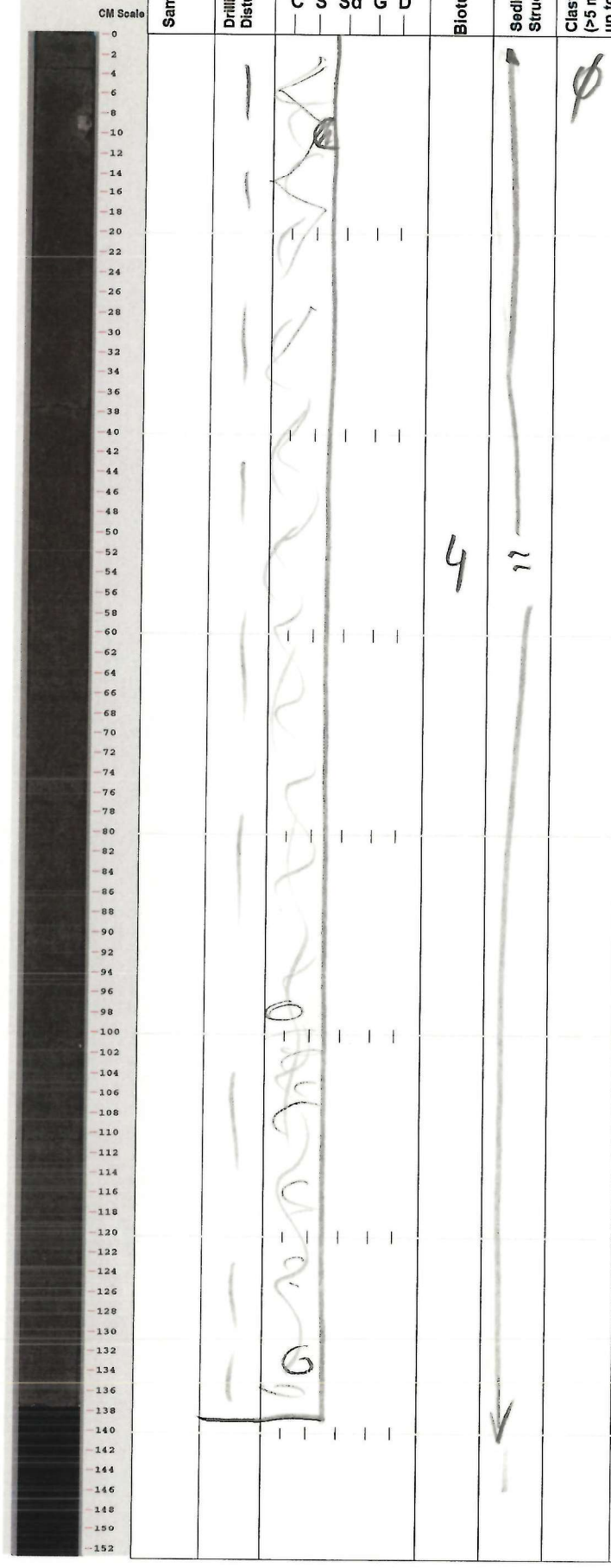
101-140cm: Greyish
brown muddy sand


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Sandra
Date:
9/2
Comments
0–48cm: Dark gre
brown muddy s
commonly bio
weakly laminated
48–58cm: Sandy mu
58–150cm: Dark g
brown muddy sa
4
4
4
Ø

400-U1607A-73R-5-A | SHLF

Logged By: Sandra

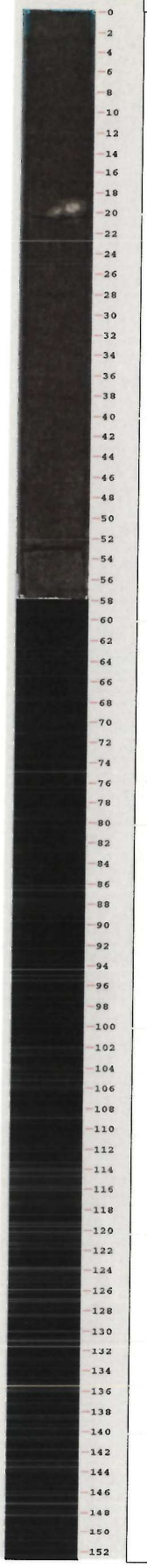
Date: 9/2



Same as S.4

carbonate concretion
8-12 cm

larger distinct bu
90-139 cm; dark a
light colored sau
or greenish grey t



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
	1			1	0
	1				
	1		4	≈	
	1				
	1				

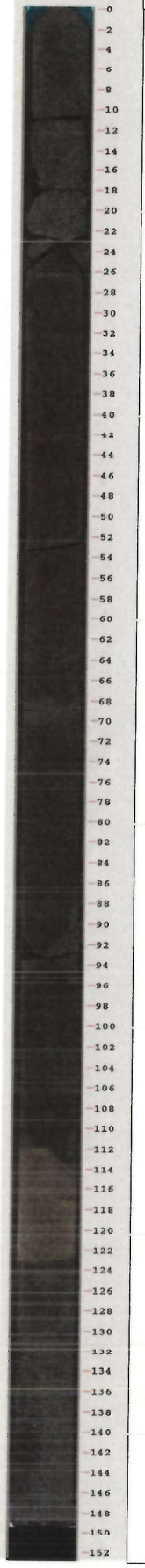
Logged By: Sandra

Date: 9/2

Comments

Same as S1–5.

19–21 cm: carbonate concretion



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: BR	Date: 9/
			3			Comments	

slight (fractured) di

0–113: Medium-brow
bioturbid weakl
stratified mu
sand

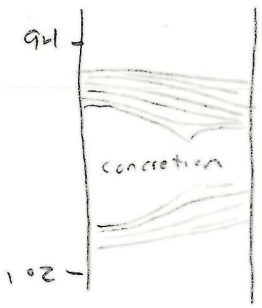
113–123: light-brow
bioturbated m
sand
(calcareous; it fizz
HC

123–end: medium-b
...

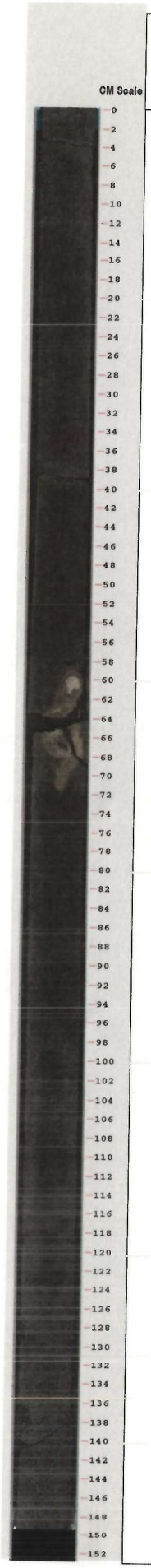
Logged By: BR

Date: 9/

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152		S		3			slight (fractured)
							0–94: medium-b bioturbated we stratified mu sand
							94–110: light-br calcareous bioturbated mu sand
							110–end:



differ compa arrowed concr ... su early



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: BR	Date: 9/
						Comments	

3

slight (fractured)

medium-brown bi
weakly strat. P
muddy sand
throughout..
except

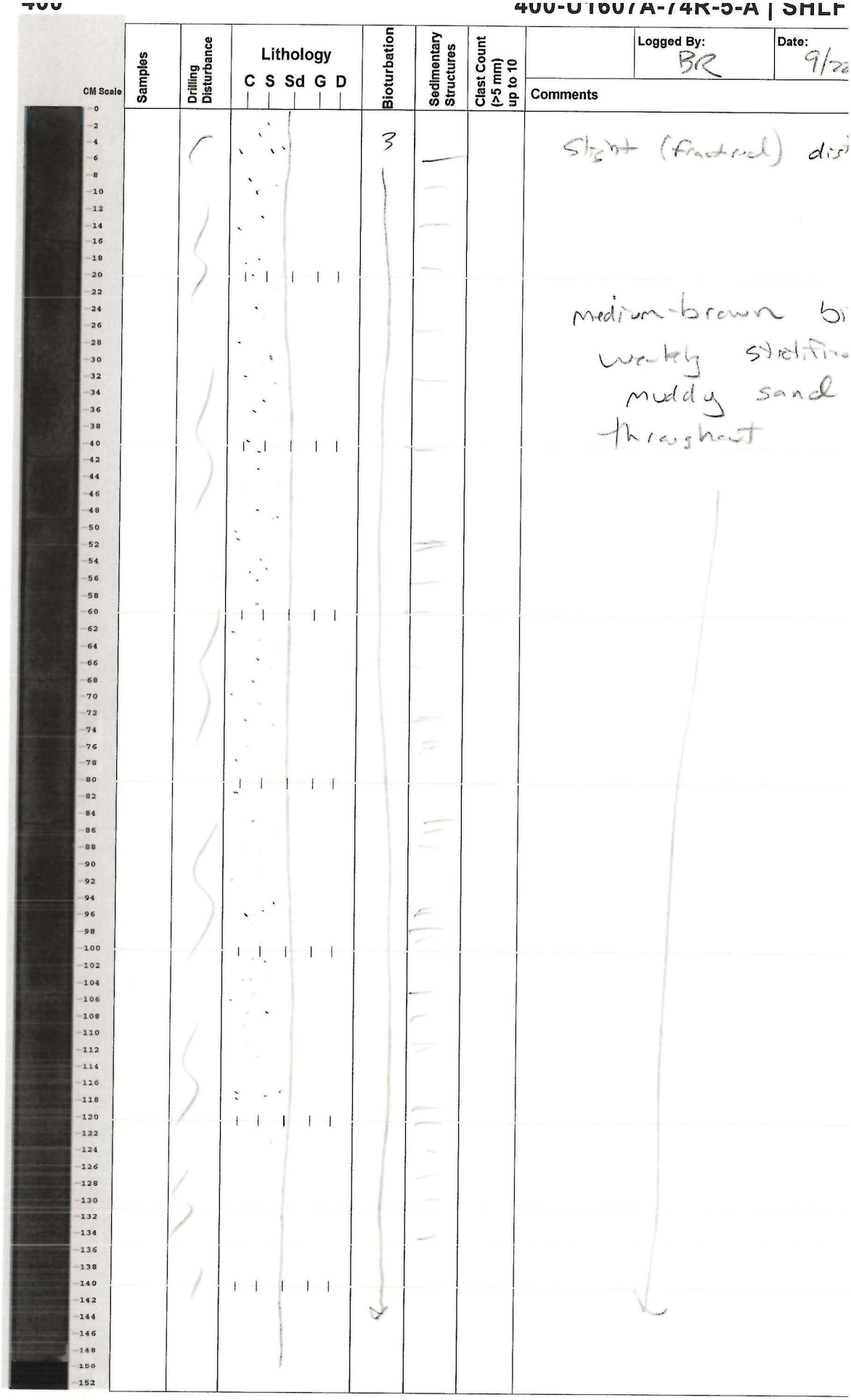
61–71: calcareous c

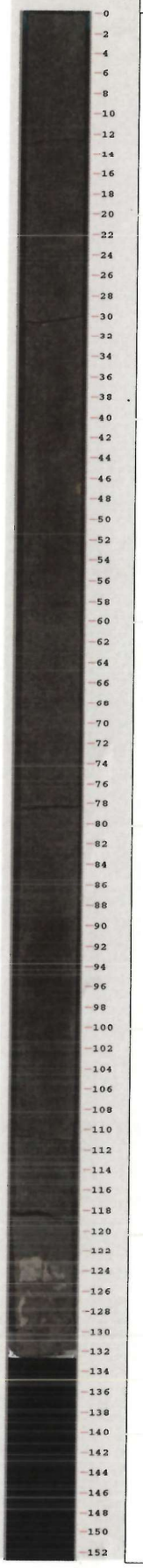
Logged By: BR

Date: 9/2



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
			3			Slight (fractured) distu
						Medium-brown weakly stratif Muddy sand throughout


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
BR
Date:
9/2
Comments
Slight (fractured) dist
3
medium-brown bi
weakly stratifie
muddy sand
throughout



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: BR	Date: 9
						Comments	

slight (fractured) dis

3

you guessed it...

Medium-brown, b

weakly stra

muddy san

throughout (exc

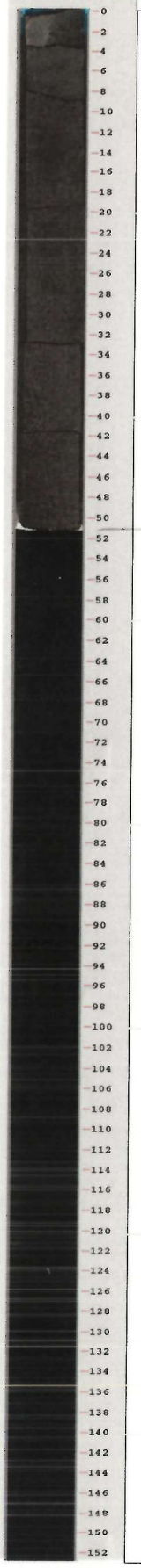
for very basc

47-48: calcareous nodu

27-70: vc sand-siz

glauconite f

119-end: contact i



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: BR	Date: 9/
						Comments	

slight (fractured) distu

0-7: cemented inte

7-end: medium b co
yadda yadda (
overlying sect

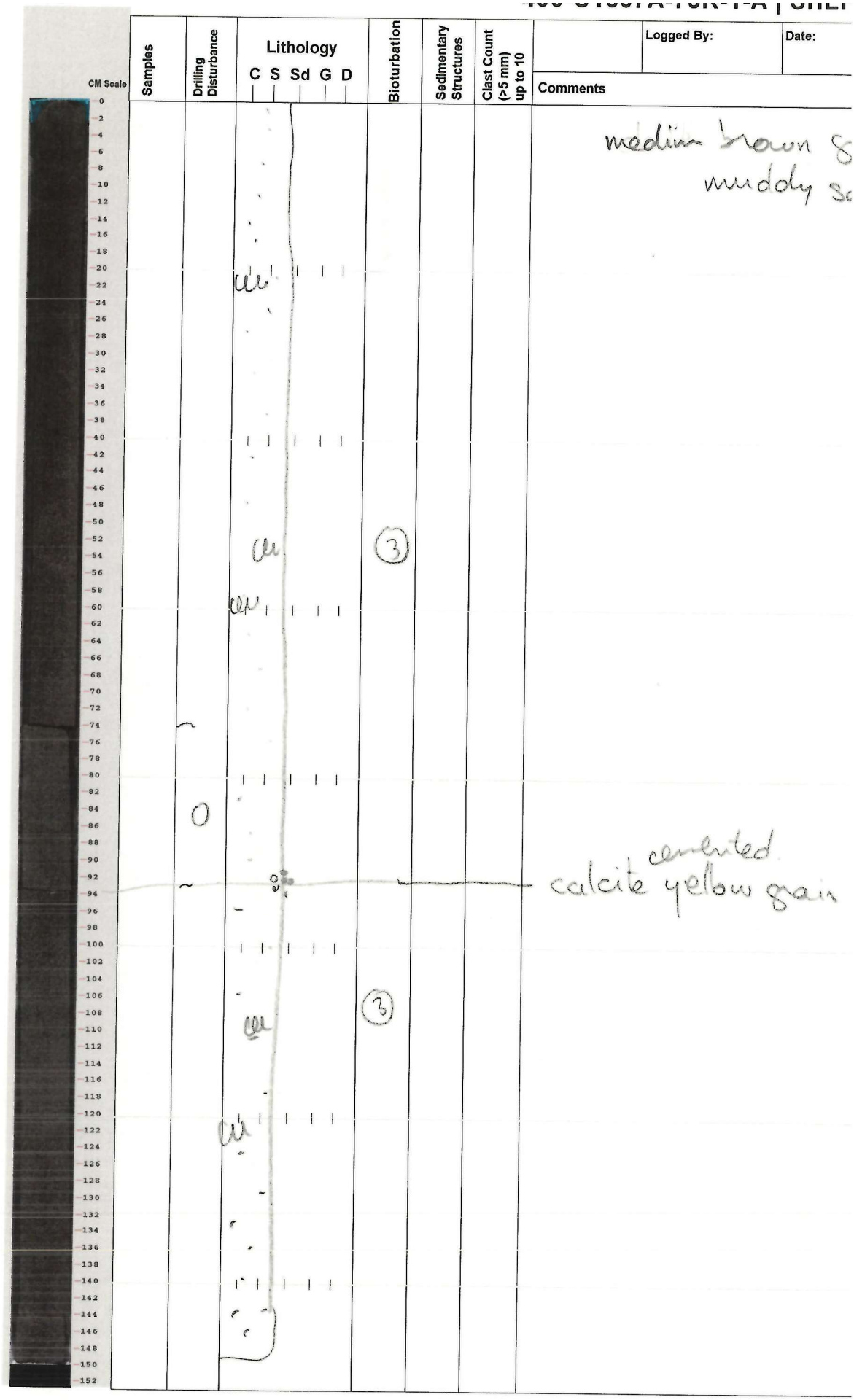
a few glauc fragments
almost 5mm (doesn't
as a 'real' clast)

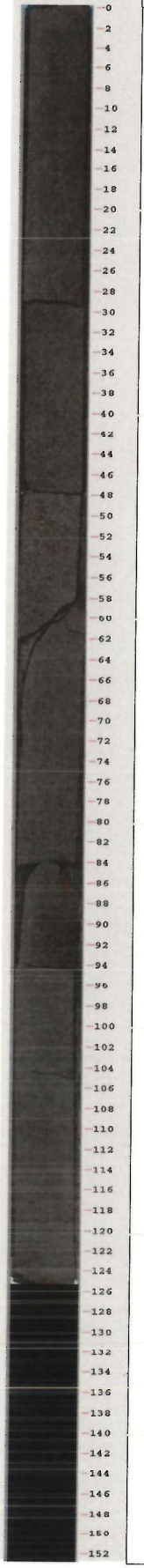
base of sectio



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: BR	Date: 9/
						Comments	

4.5 cm of the dom
lithology


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Date:
Comments
medium brown
muddy
3
3
O
cemented
calcite yellow grain



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0							
2							
4							
6							medi grey s—
8							mu
10							
12							
14							
16							
18							
20							
22							
24							
26							
28							
30							burrows
32							
34							
36							
38							
40							
42							
44							
46							
48							
50							
52							
54							
56							
58							
60				(3)			
62							
64							
66							
68							
70							
72							
74							
76							
78							
80							geode (smelly old b
82							deca
84							
86							Ca/Fe siderite?
88							
90							
92							
94							
96							
98							
100							
102							
104							
106							
108							
110							
112							
114							
116							
118							
120							
122							
124							geode siderite
126							
128							
130							
132							
134							
136							
138							
140							
142							
144							
146							
148							
150							
152							

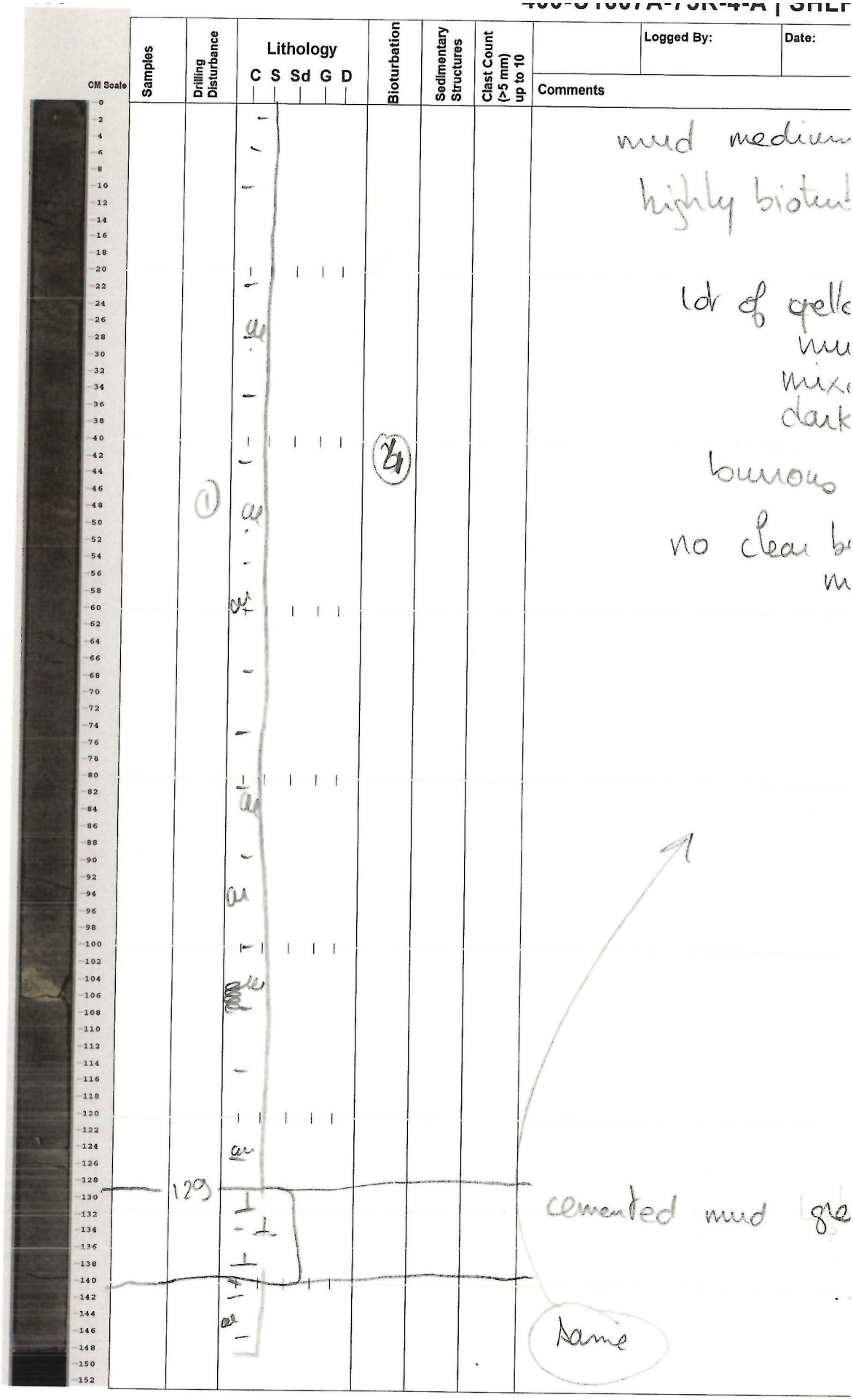
Logged By: Date:

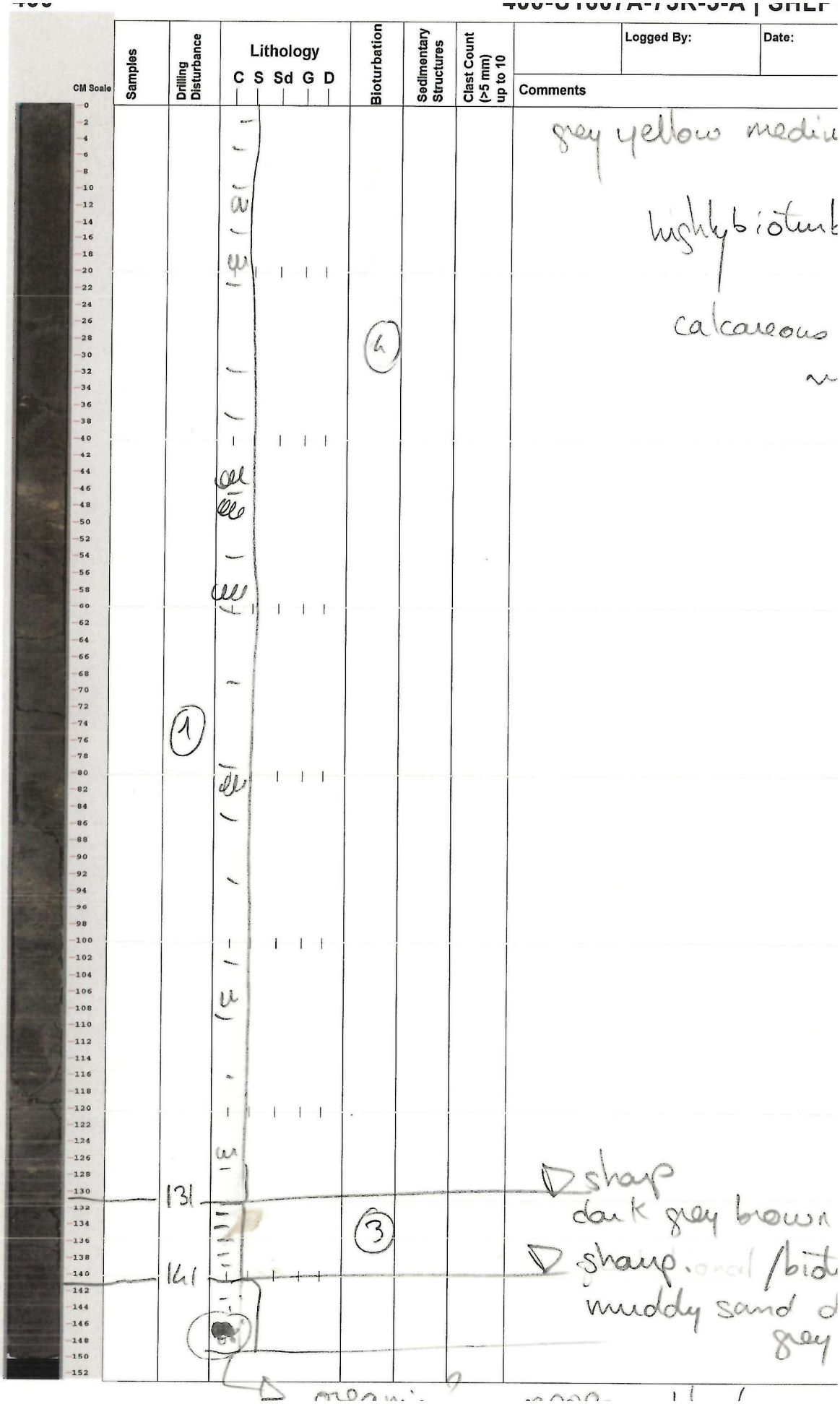


CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0							
2							dark grey bro
4							mud
6							
8							
10							
12							
14							
16							
18							
20							
22							siderite concret
24							
26							
28				(2)			
30							
32							
34							
36							
38							
40							
42		mod					
44							
46		(2)					
48							
50							
52							
54		fac					
56							siderite concret.
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							

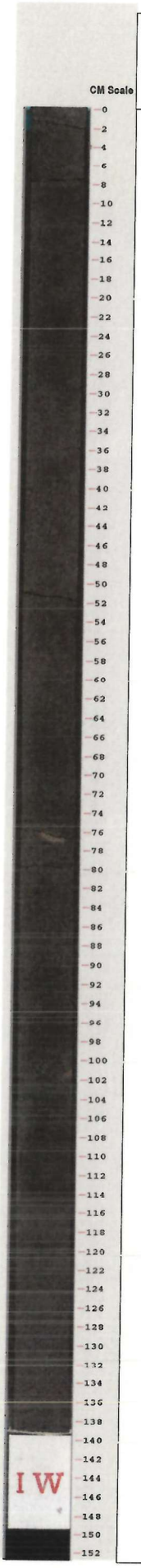
Logged By:

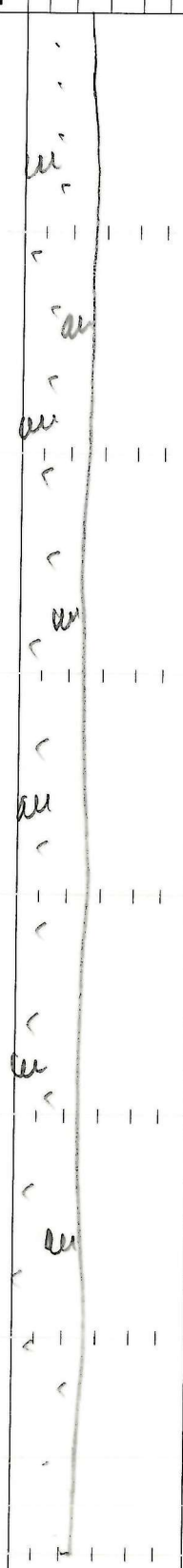
Date:


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Date:
Comments
mud mediu
highly biotu
ldr of gelle
mu
mix
dark
burrow
no clear b
m
1
129
cemented mud
same


Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Date:
Comments
CM Scale
grey yellow mediu
highly bioturb
calcareous
1
4
3
131
141
sharp
dark grey brown
sharp
muddy sand
grey

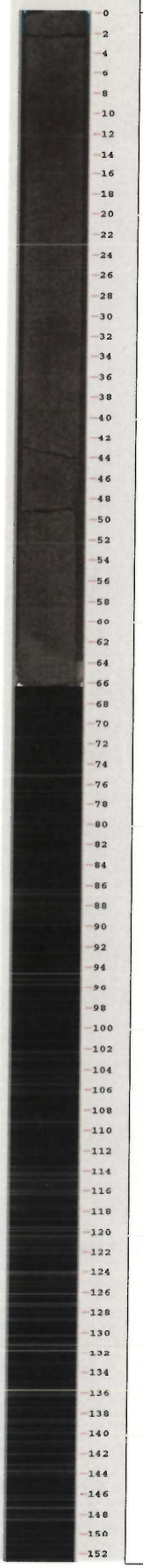
Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
						Logged By: Date:





Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
			medium brou
			muddy sc
			burrows
			calcareous
			bl
(3)			

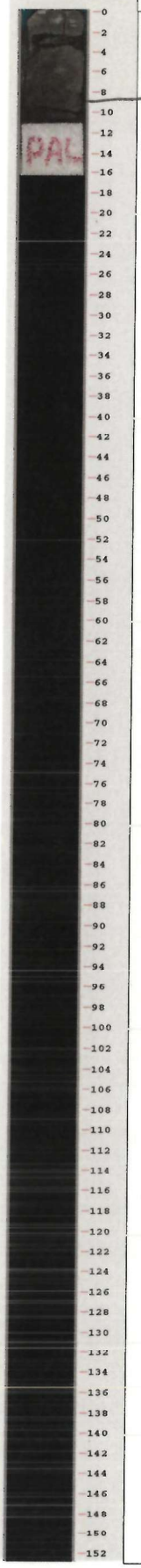
Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
						Logged By: Date:



concrete (calcite ce
muddy sand
dark grey

burrows.

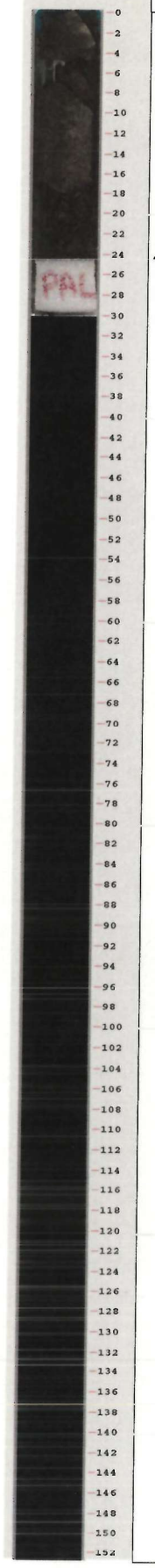
(1) (3)



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	

9

cemented medium g
calcite Rud
muddy s-d do

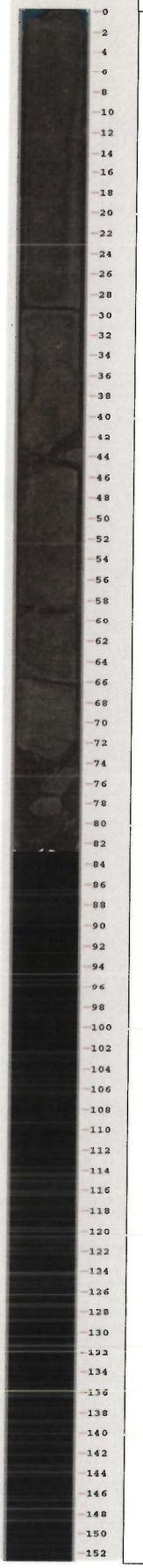


Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	

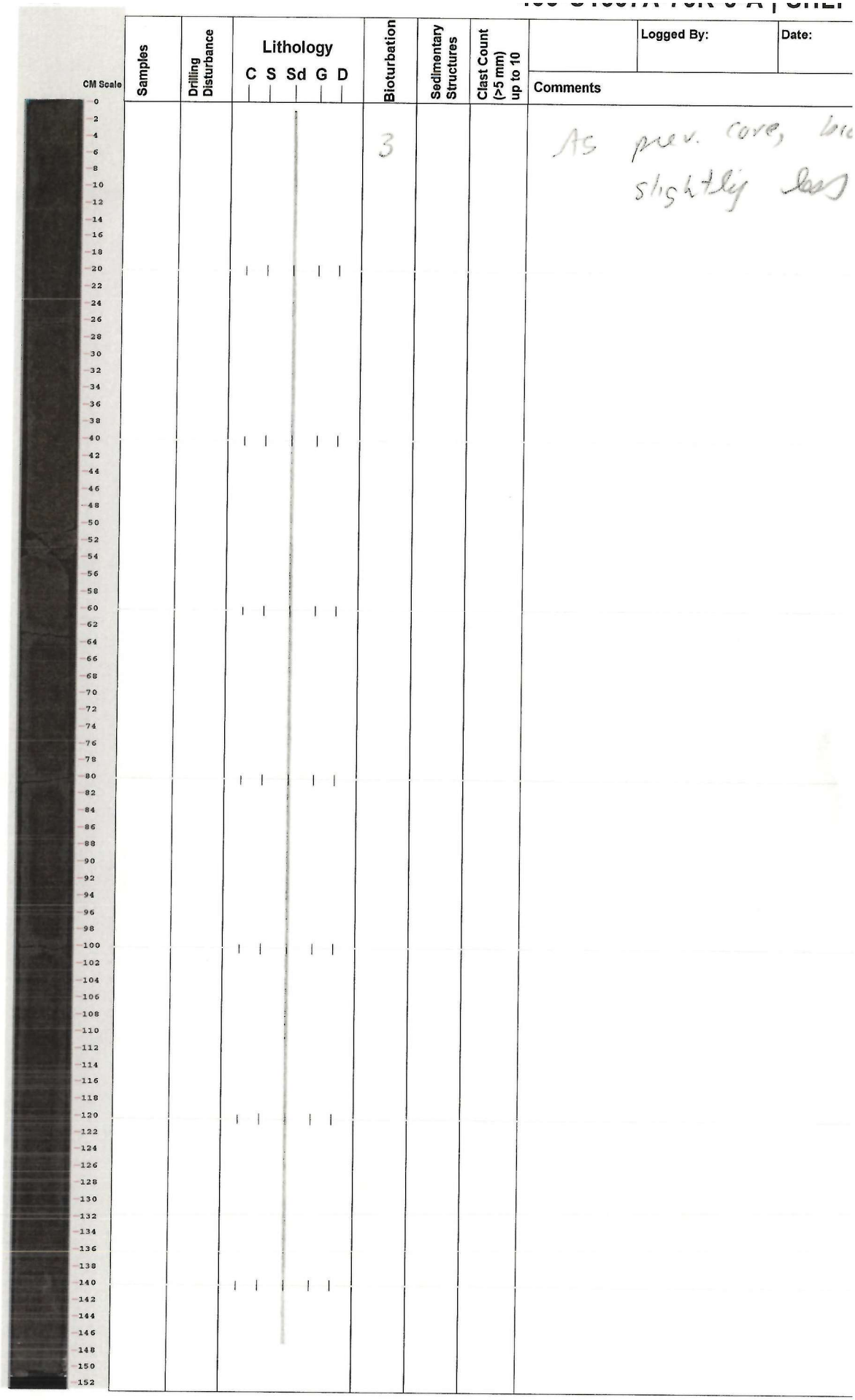
3

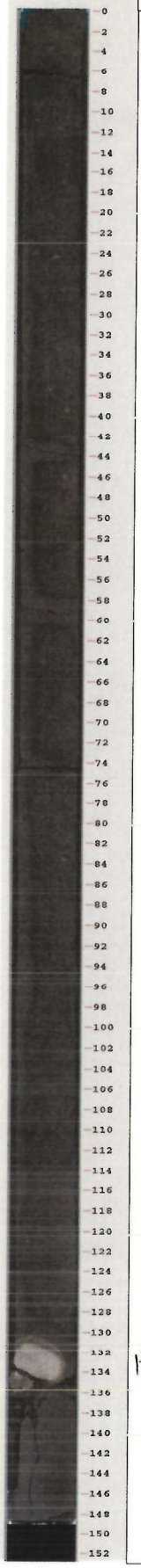
as Sections 5-6

may set muddie
cc, but dr
disturbance
observation



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			3	=		Comments: as Section 5	


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Date:
Comments
3
As prev. core, bio
slightly less

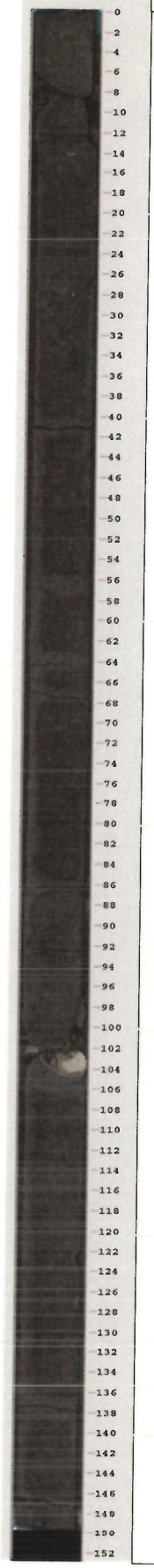


Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: / Date: / Comments
			4			0- base as prev. core
Photo						rimmed concretio w/ gastropod at outer. Sediment drapes a it, implying fo pre-compaction

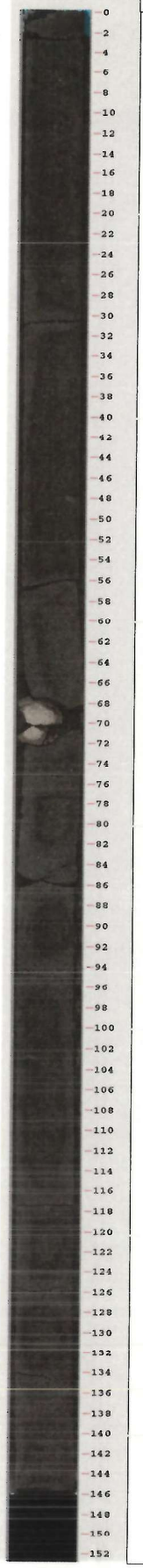


Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			4			Comments	

As previous, but sl
incr. in bioturb
(more overlap)



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			3	= ?	0	Comments: 0- base: as prev. s rimmed caCO3 c at 8-11 and 102	



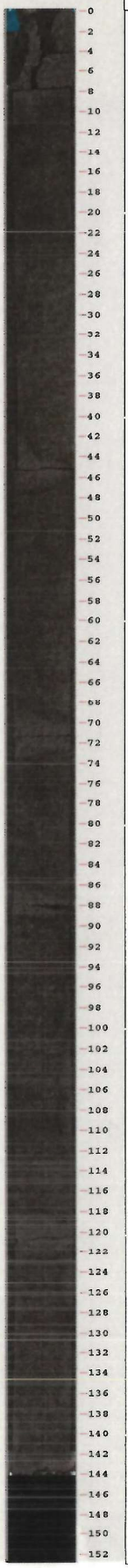
Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			3		0	Comments	

As in previous c
(0 to base)

69-73: concretion w/
- glauconite grain
- sediment dre



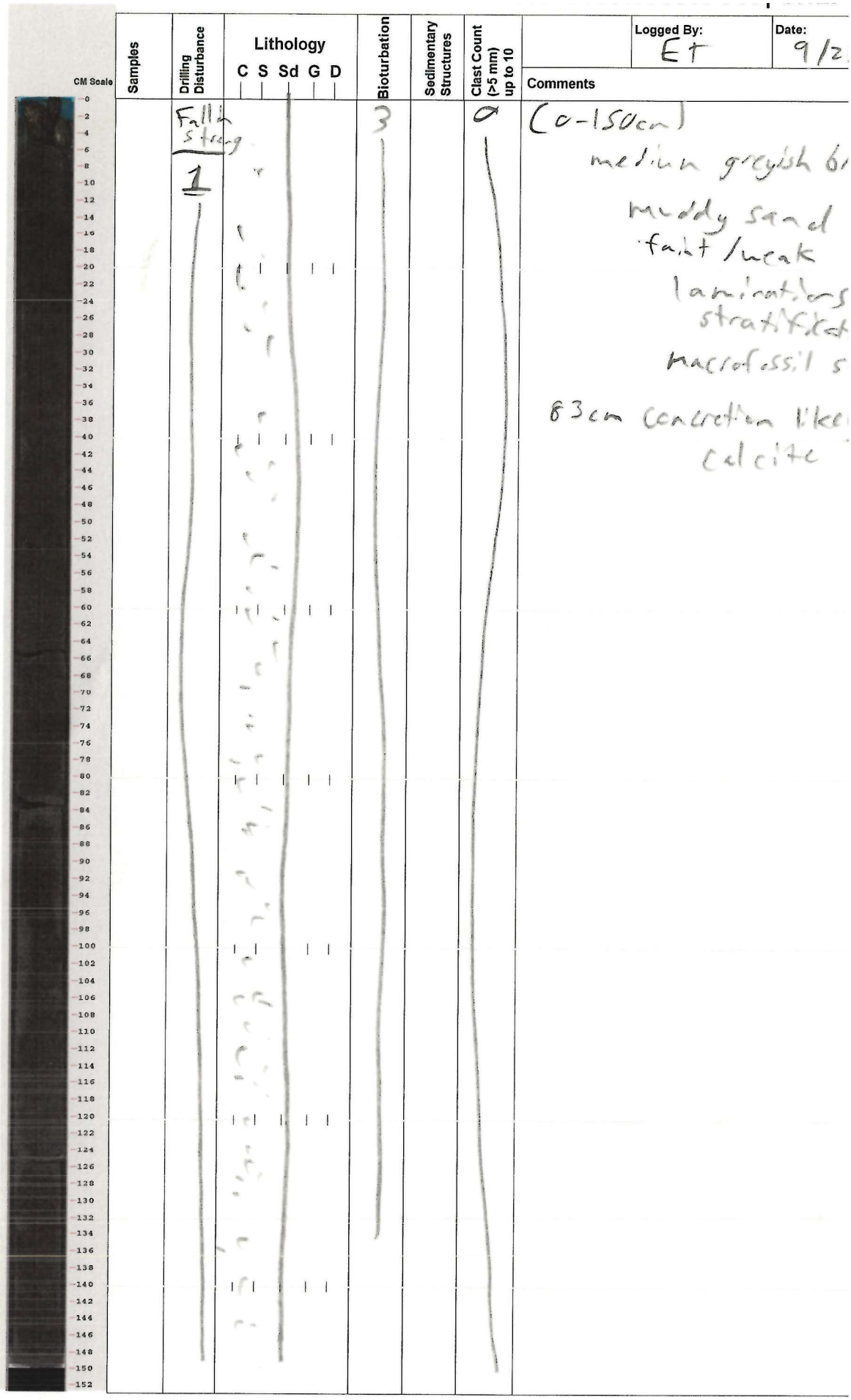
-> Su
to

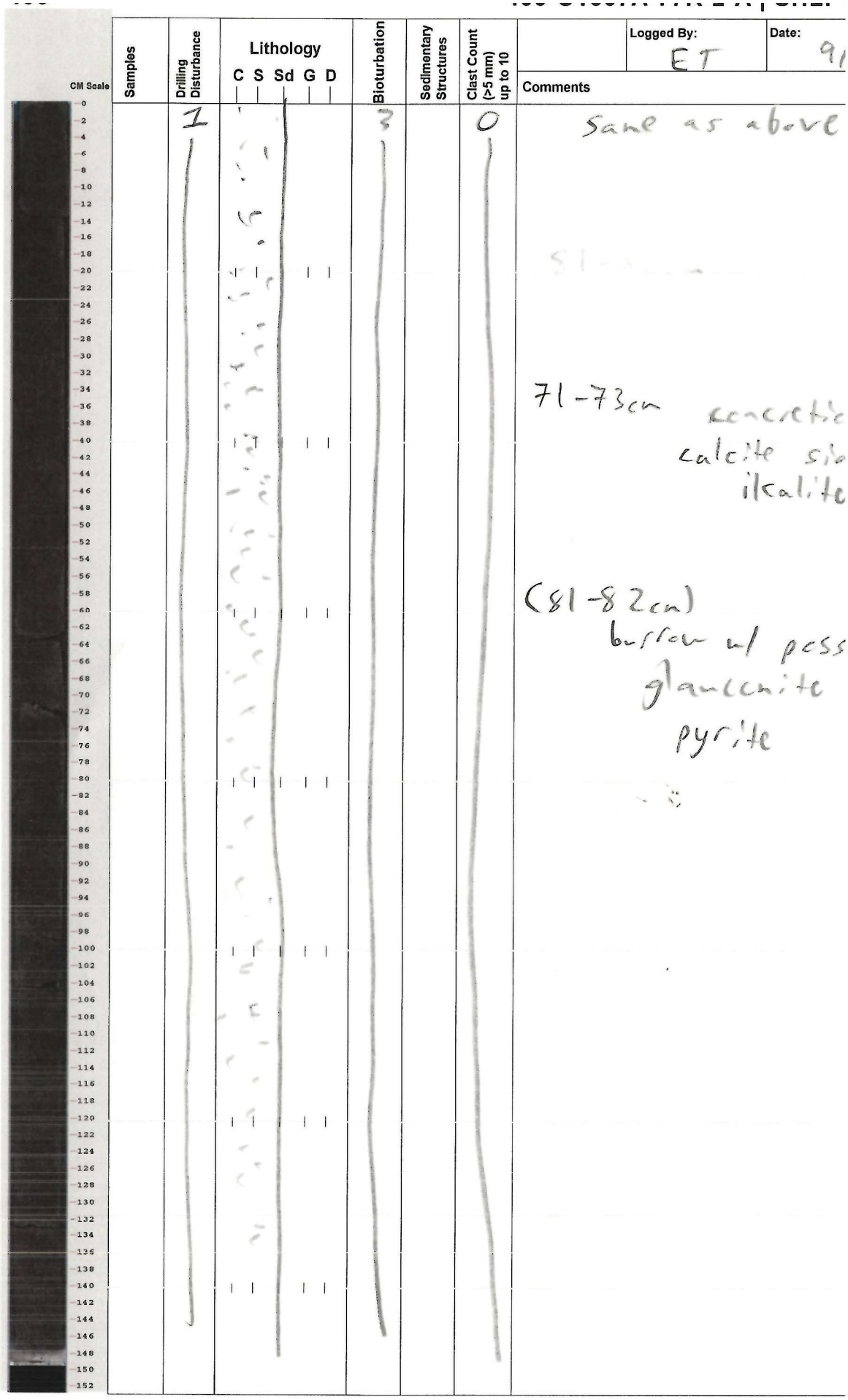


Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: TF	Date: 9/2
			3	=	0	Comments	

0- base: Med brow
muddy v fine S
- Laminated (
- faint XL
- uncommon
-> filled w/ sand
- rare escape S
(burrow
over ~5 cm

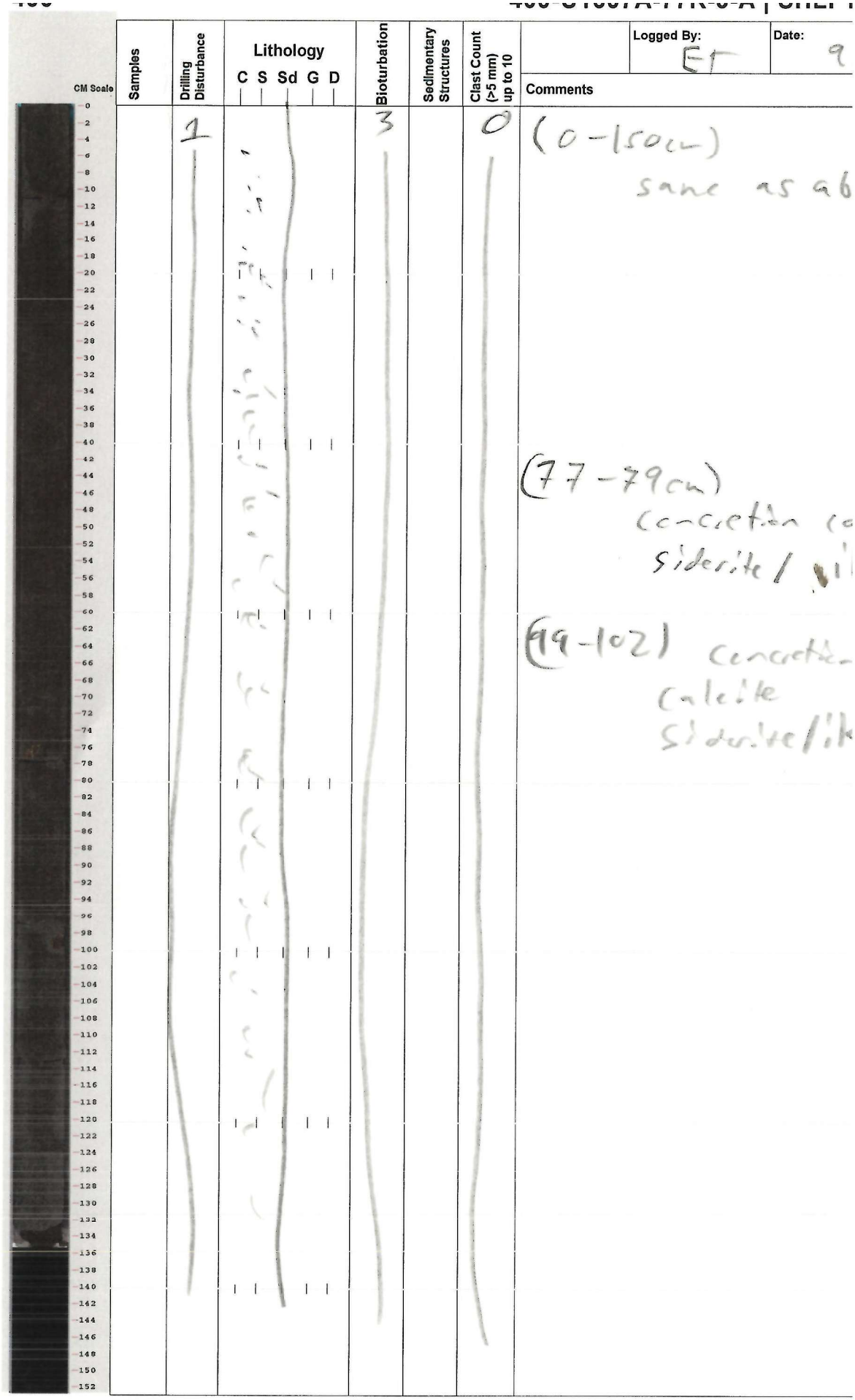



CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
ET
Date:
9/2
Comments
Fall in string
1
3
9
(0-150cm)
medium greyish br
muddy sand
faint/weak
laminations
stratified
macrofossil s
83cm concretion like
calcite



Logged By:	Date:
ET	9/

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152		1		3		0	Same as above
							71-73cm concretic calcite sio ikalite
							(81-82cm) burrow w/ poss glauconite pyrite


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
ET
Date:
Comments
1
3
0
(0-150cm)
same as ab
(77-79cm)
(99-102)
calcite

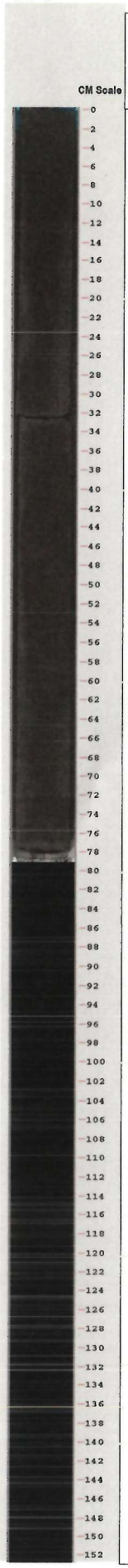
Logged By: Et

Date: 9

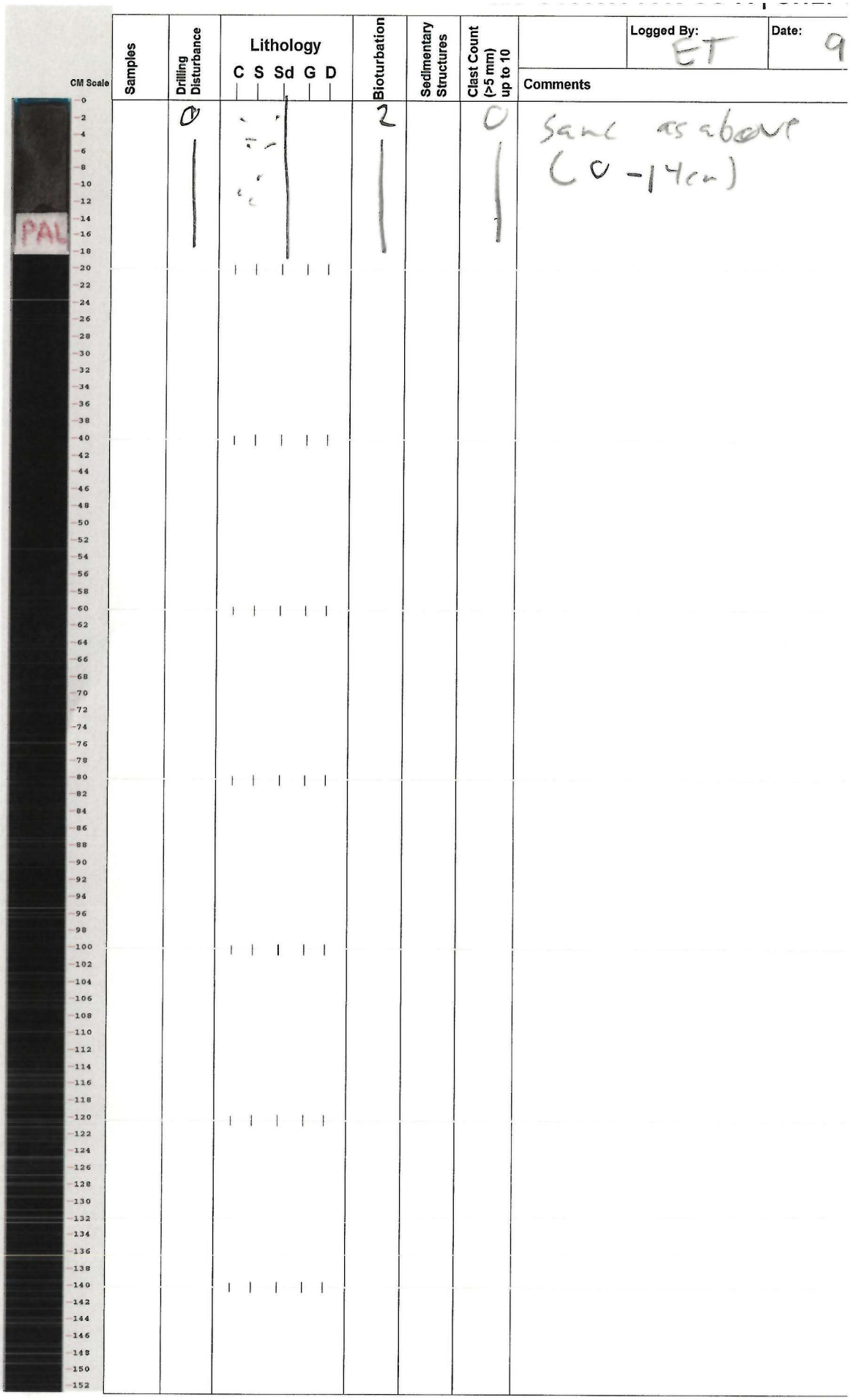


CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–26		1		3		0	(0-26cm) same as a
26–31		3					
31–40		1					(25-26cm slicke
40–150							(26-31cm) sandy mud dark brow.
150–152							(31-150cm) medium greyish muddy sand macrofossil shell fragm faint/we laminati stratific
152–160							(44-47cm) siderite/ika concretion c

IW



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: ET	Date:
	1		3		0	Comments: (0-78cm) same as above	

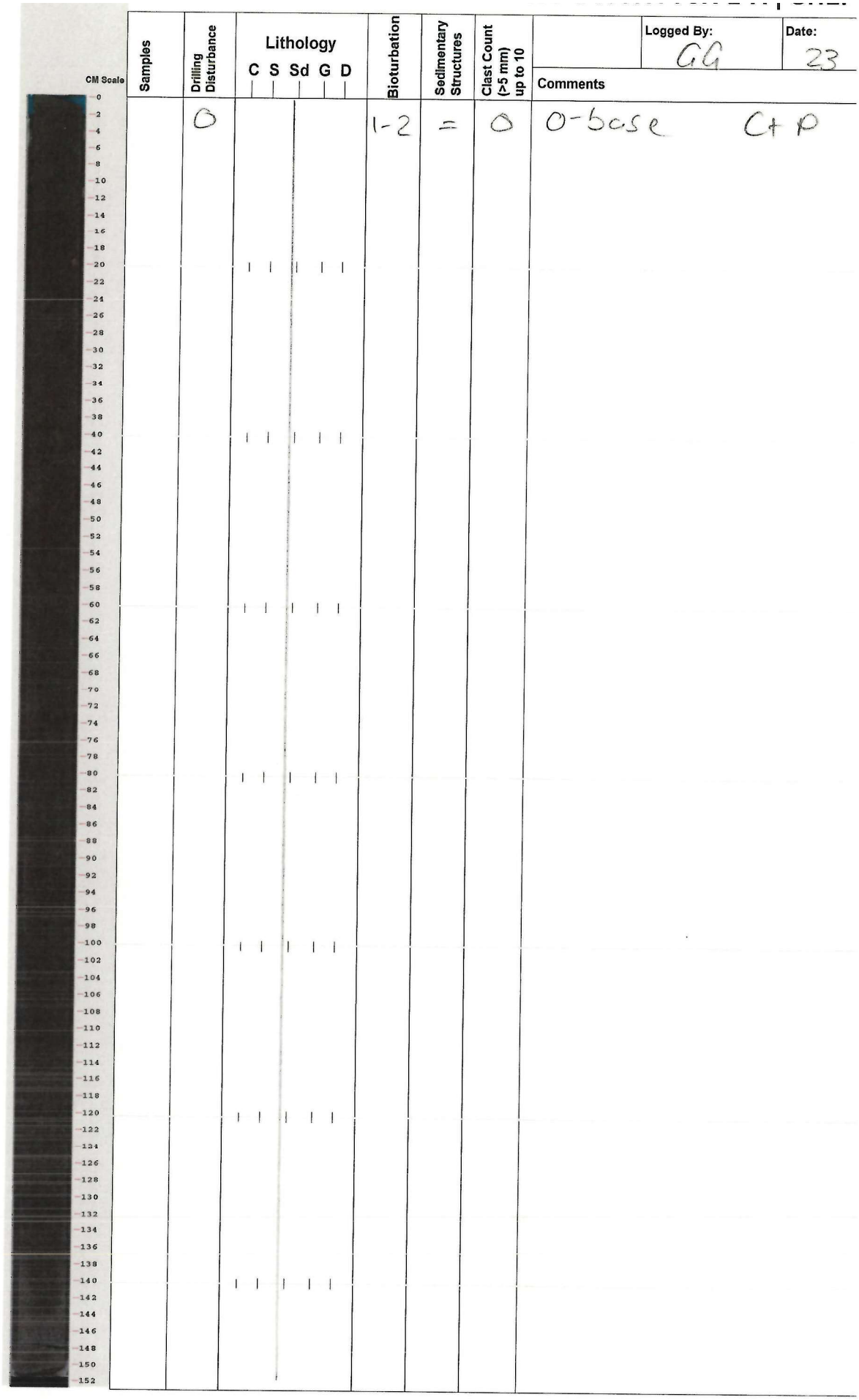

CM Scale
PAL
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
ET
Date:
9
Comments
0
2
same as above
(0-14cm)



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: GG	Date: 23 S
			1-2	=	X	Comments	

0-base Muddy Sand
med brown
(Mottled) dark brown,
light brown
Sparse to uncommon
bioturbation
Thin laminations
preserved
pockets
Shell frags (+ lag
<1cm
Qtz sand lined burr
Diagenetic ± concret
nodules
glauconite nodules
5mm

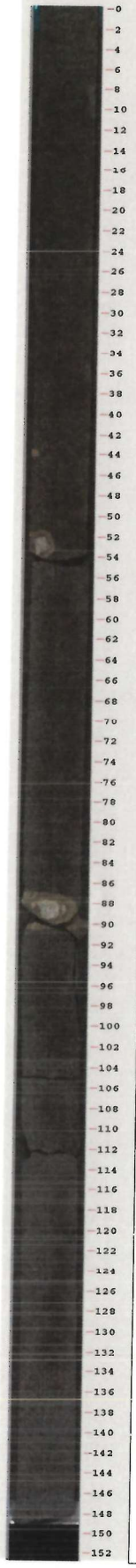
126-128 concretion



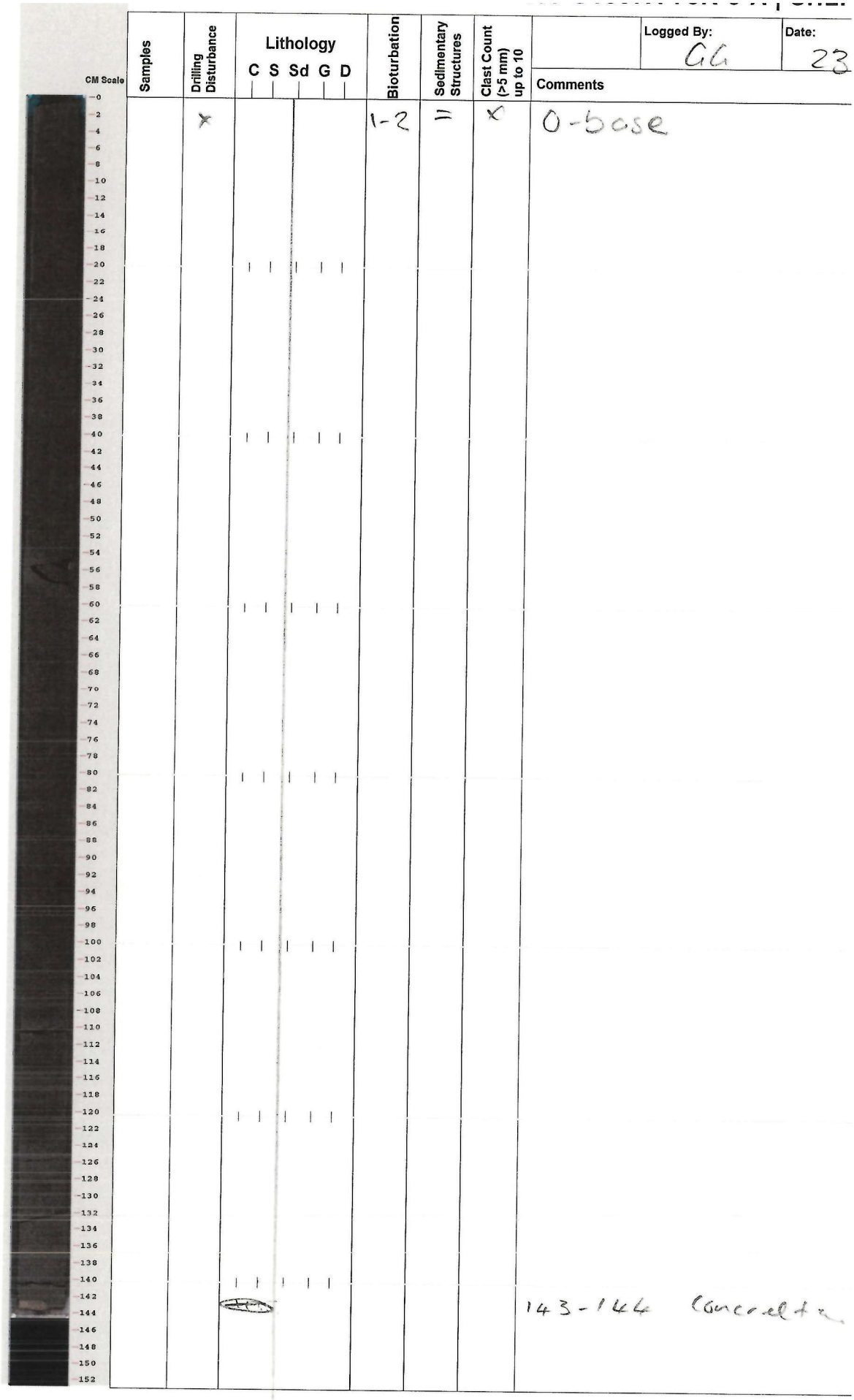
Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: GG	Date: 23
	0		1-2	=	0	Comments: 0-base C+P	

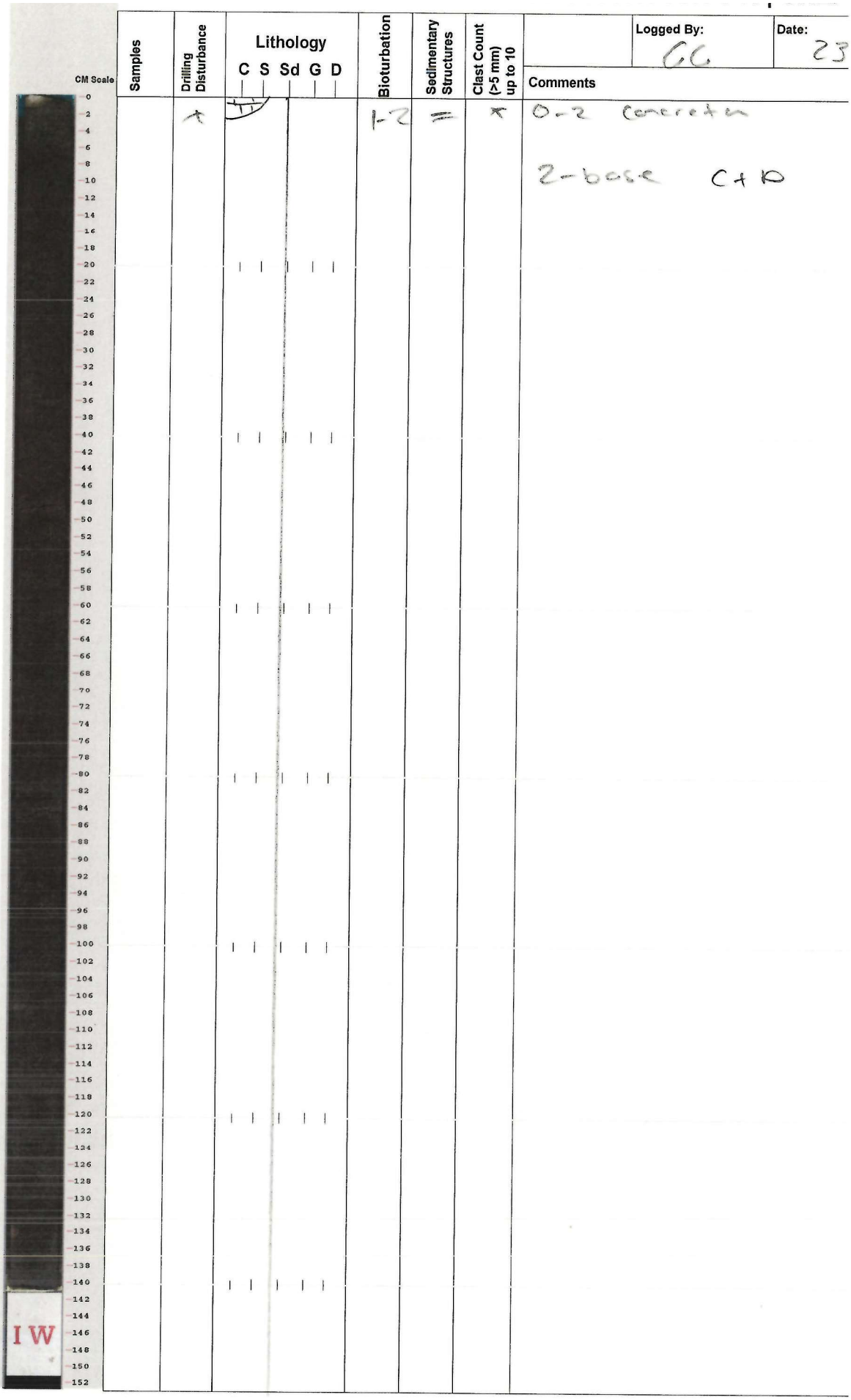


Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: GG	Date: 23
						Comments	
	X		1-2	=	X	0-base C+P	
						34-38 Concretion	
						Glauco nodules	

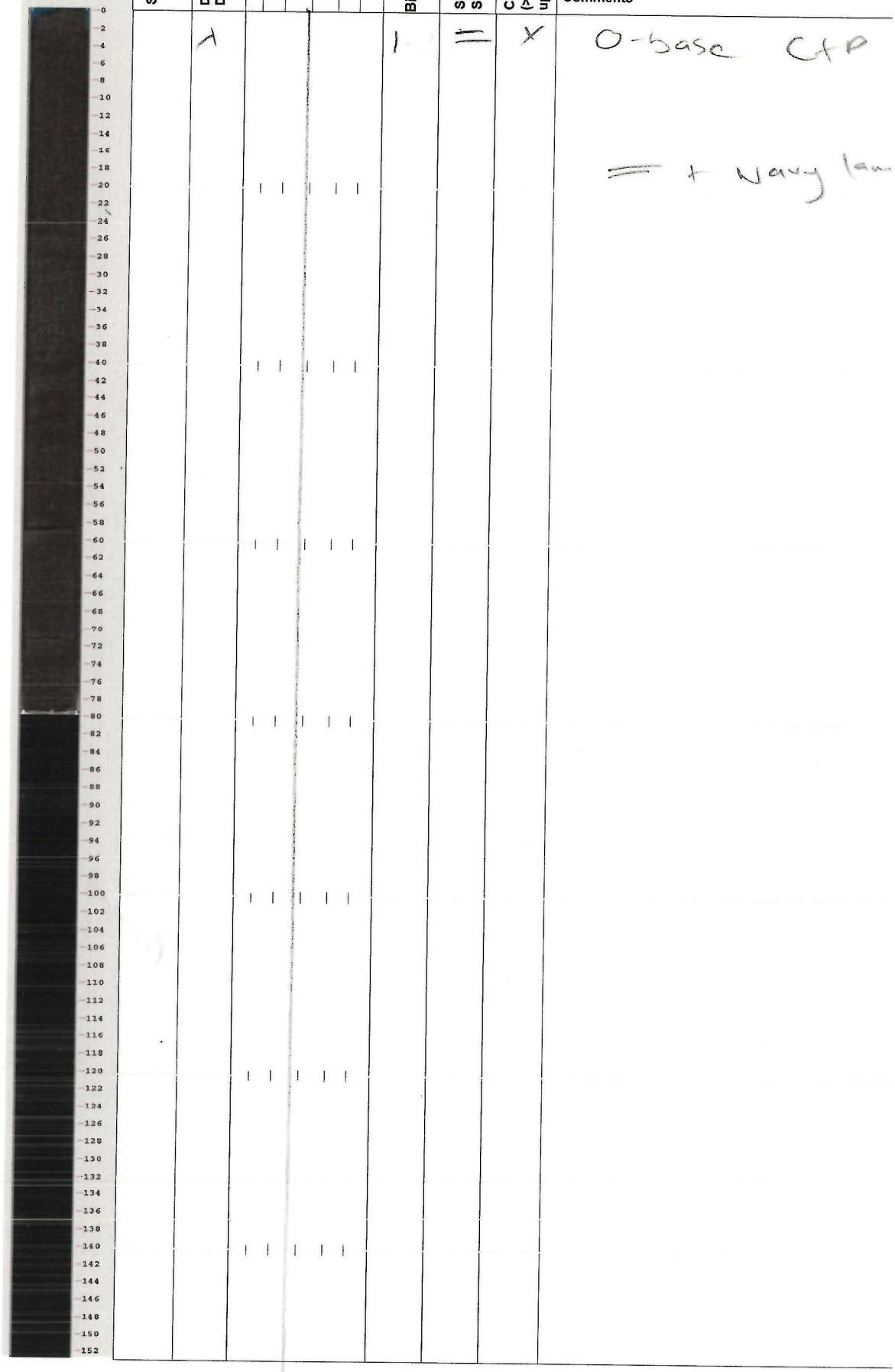


Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: GG	Date: 23
						Comments	
	x		1-2	=	x	0-base C+P	
						52-54 Concretion	
						88-92 Concretion	


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
GG
Date:
23
Comments
1-2
0-base
143-144 Concretion



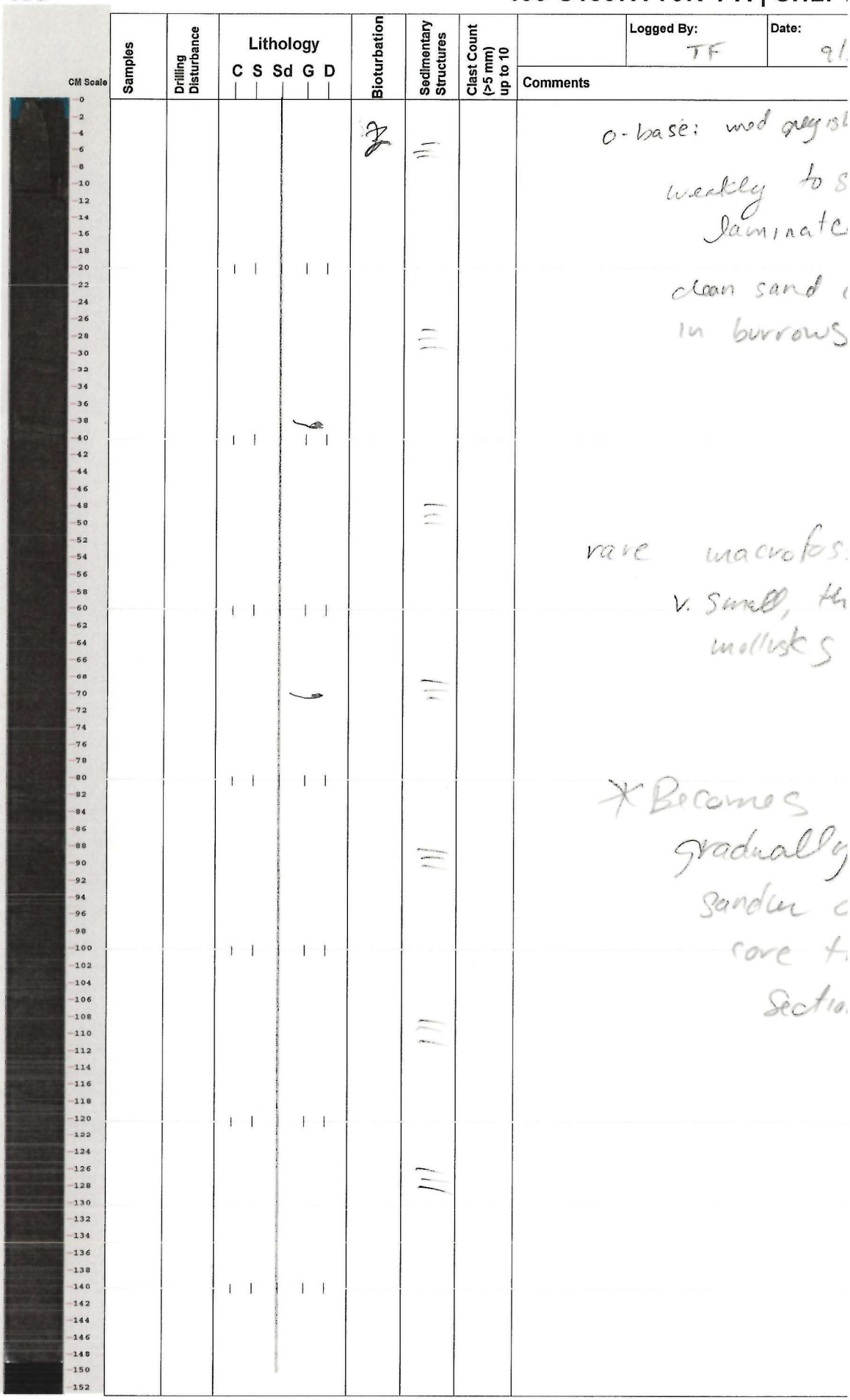
Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: GG	Date: 23
						Comments	
	↑		1-2	=	↑	0-2 concretion	
						2-base C+D	



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0							
2		λ		1	=	X	O-base CtP
4							
6							
8							
10							
12							
14							
16							
18							= + wavy lam
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							

Logged By: GG

Date: 2

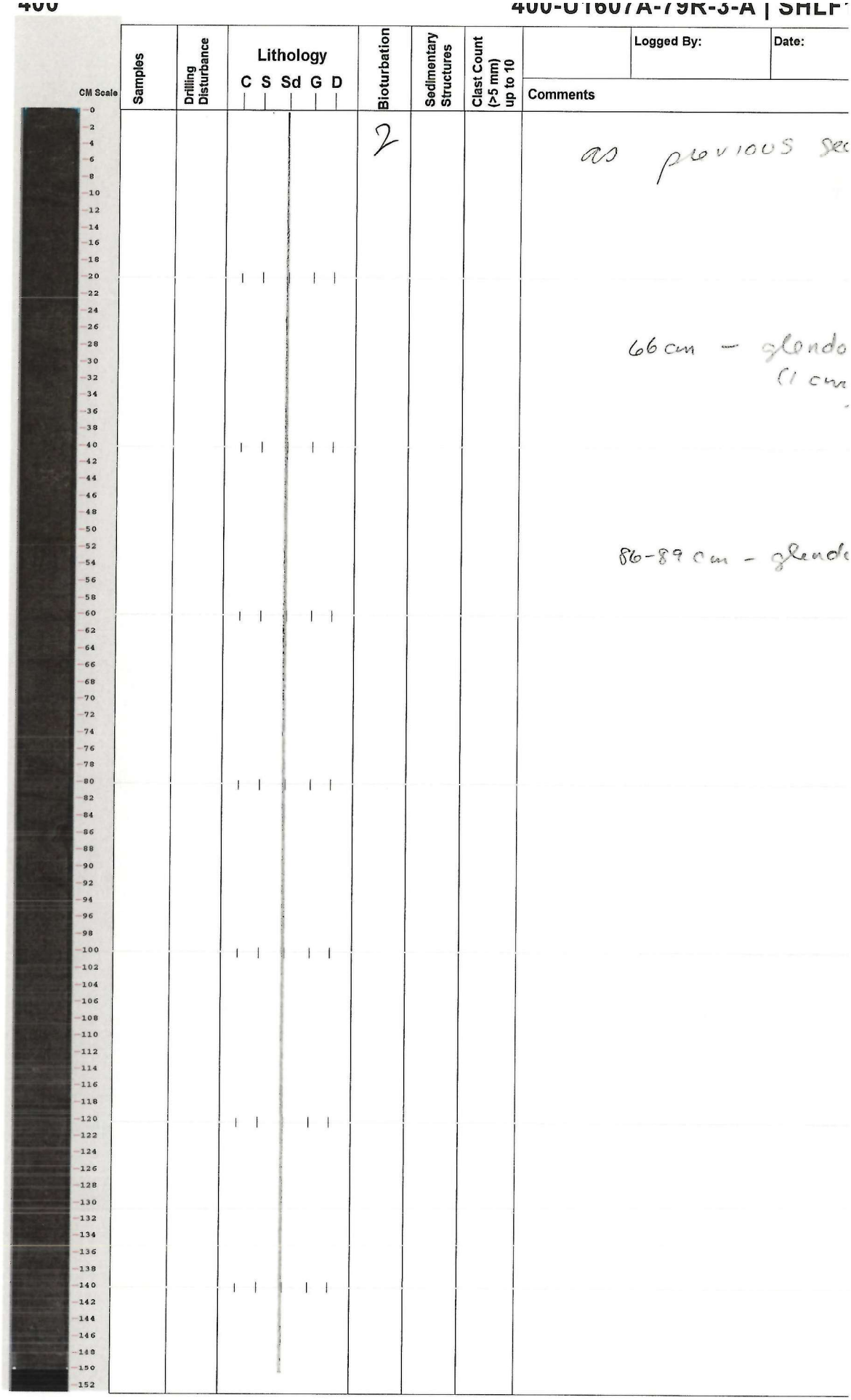

CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
TF
Date:
Comments
0 - base: med grey sl
weakly to s
laminate
clean sand
in burrows
rare macrofos
v. small, th
mollusk s
* Becomes
gradually
sandier
core t
Sectio



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–62		0		Z			As prev. section - 3cm glendonite ~
64–80		2					→ pseudomorph of T ikaite (ora crystals) 56-58cm
94		—					
100–120		0					
140							

Logged By:

Date:


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Date:
Comments
2
as previous sec
66 cm - glendo
86-89 cm - glende

Logged By:	Date:



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0				2			As previous se
2							
4							
6							
8							
10							
12							
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							68-71 cm - rim
34							carbonate
36							spherica
38							3cm o
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							
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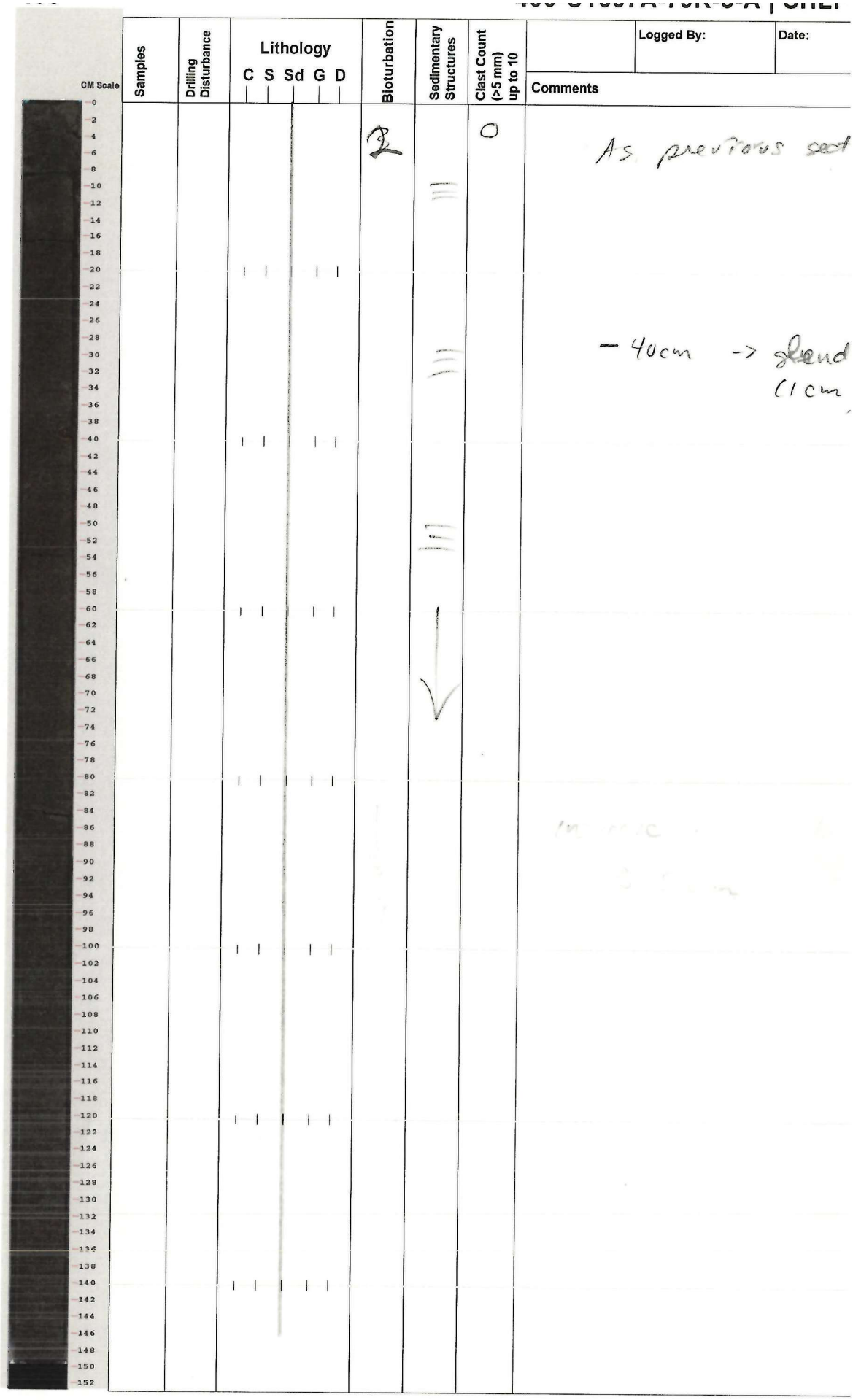
118							
120							
122							
124							
126							
128							
130							
132							
134							
136							
138							
140							
142							
144							
146							
148							
150							
152							

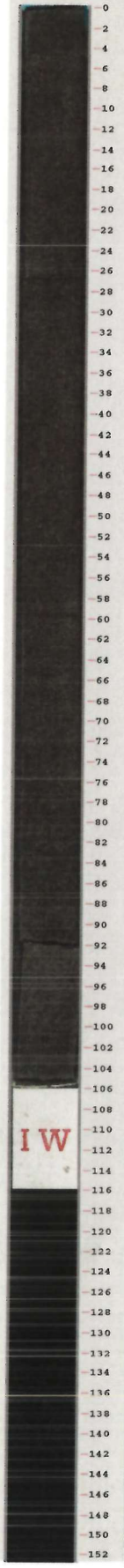

CM Scale
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
48
50
52
54
56
58
60
62
64
66
68
70
72
74
76
78
80
82
84
86
88
90
92
94
96
98
100
102
104
106
108
110
112
114
116
118
120
122
124
126
128
130
132
134
136
138
140
142
144
146
148
150
152
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Date:
Comments
0
As previous sect
- 40cm -> sand
(1cm

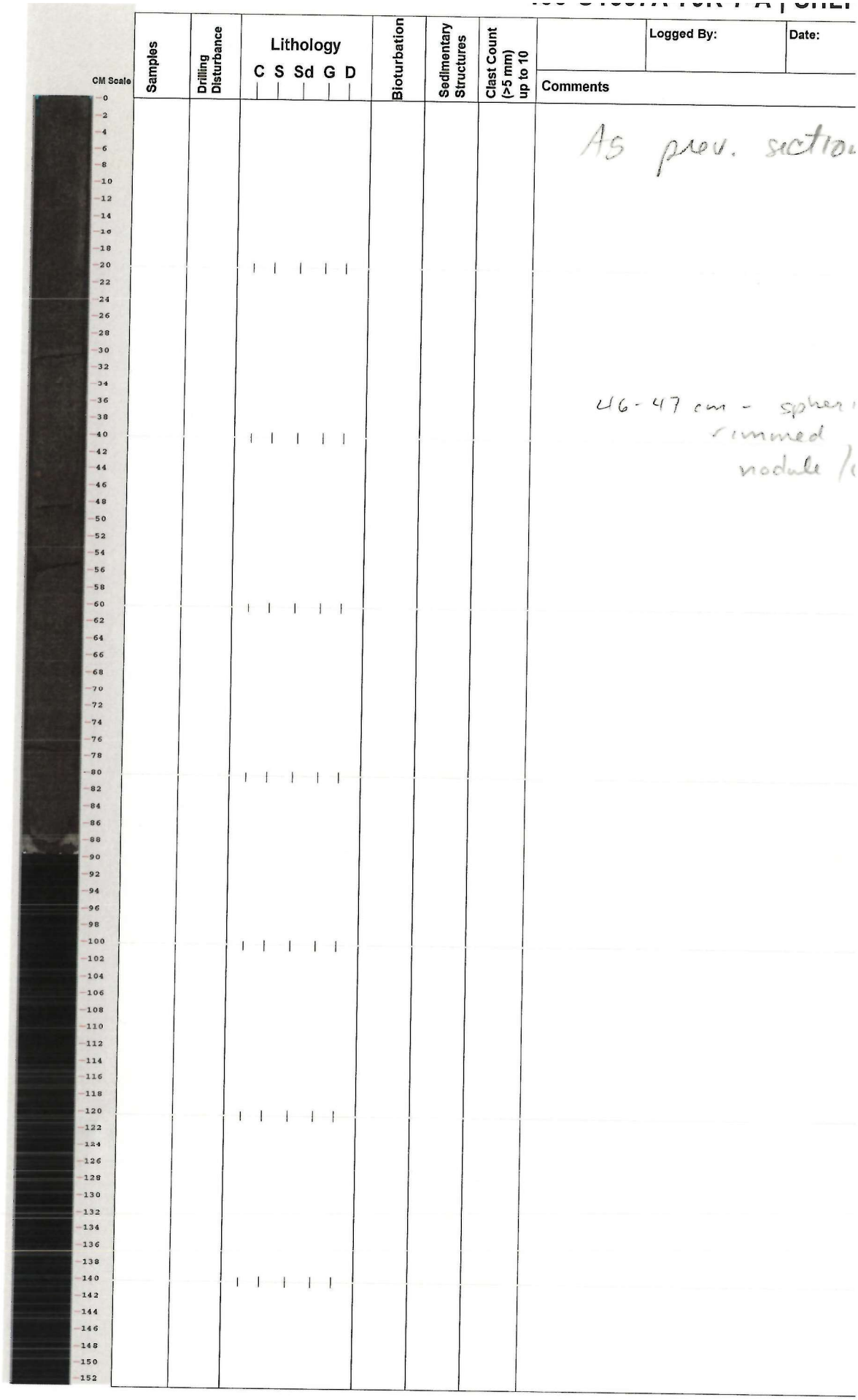
Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
			2			As previous secti
						- 16 cm - spherica rimmed concreti CCaCC
			3			

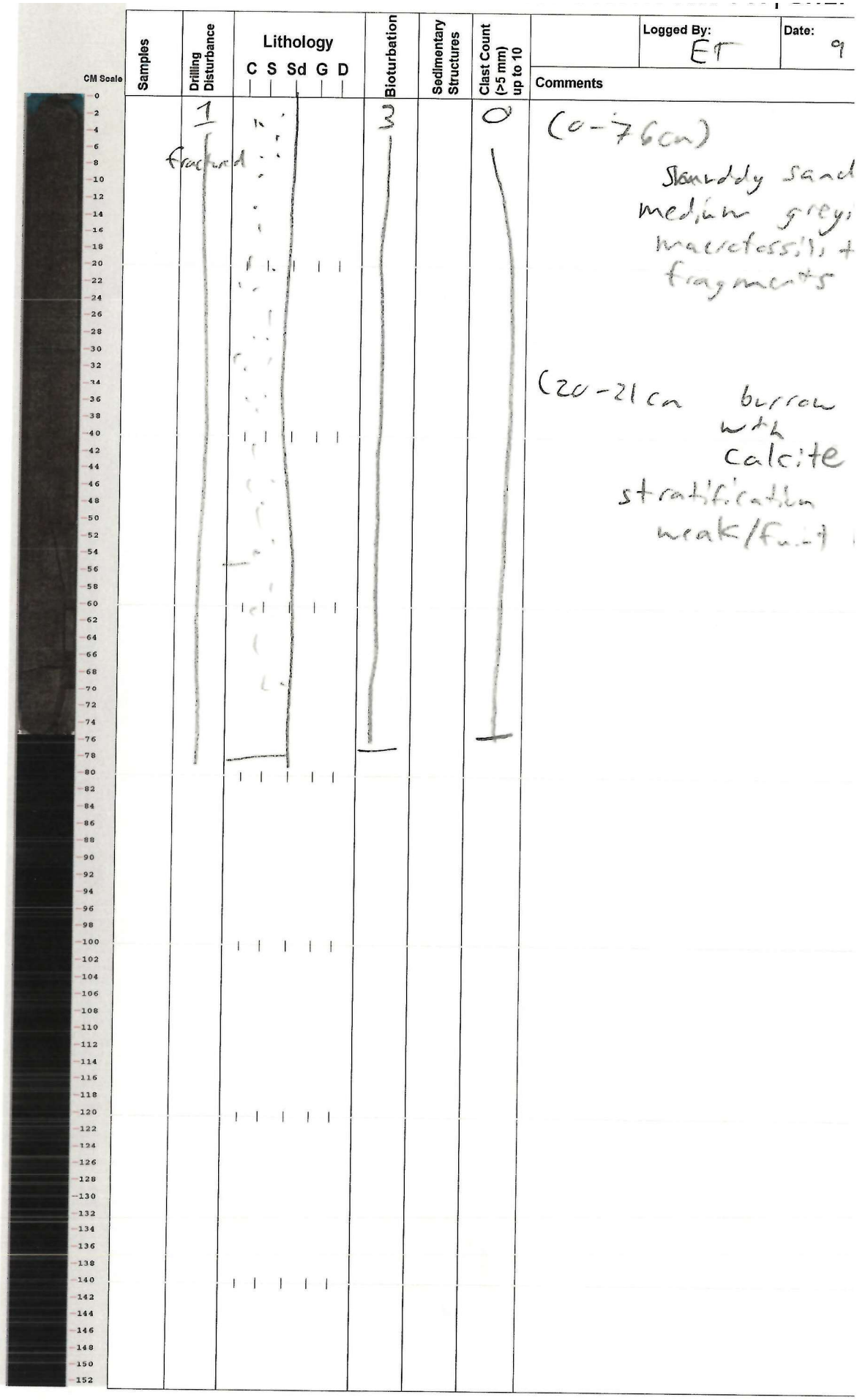
Logged By:

Date:

CM Scale




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
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Date:
Comments
As prev. section
46-47 cm - spher
rimmed
nodule /


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
ET
Date:
9
Comments
1
fractured
3
0
(0-76cm)
Stanuddy sand
medium grey
macrofossil +
fragments
(20-21cm burrow
with
calcite
stratification
weak/fuzzy



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0				2		0	(0-150cm) same as above
2							
4							
6		1					
8							
10							
12							
14							burrows filled white/sand black g
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							
36							
38							
40							
42							
44							
46							
48							
50							
52							
54							
56							
58							
60		3					
62							
64		1					
66							
68							
70							
72							
74							
76							
78							
80							
82							
84							
86							
88							
90							
92							
94							
96							
98							
100							
102							
104							
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108							
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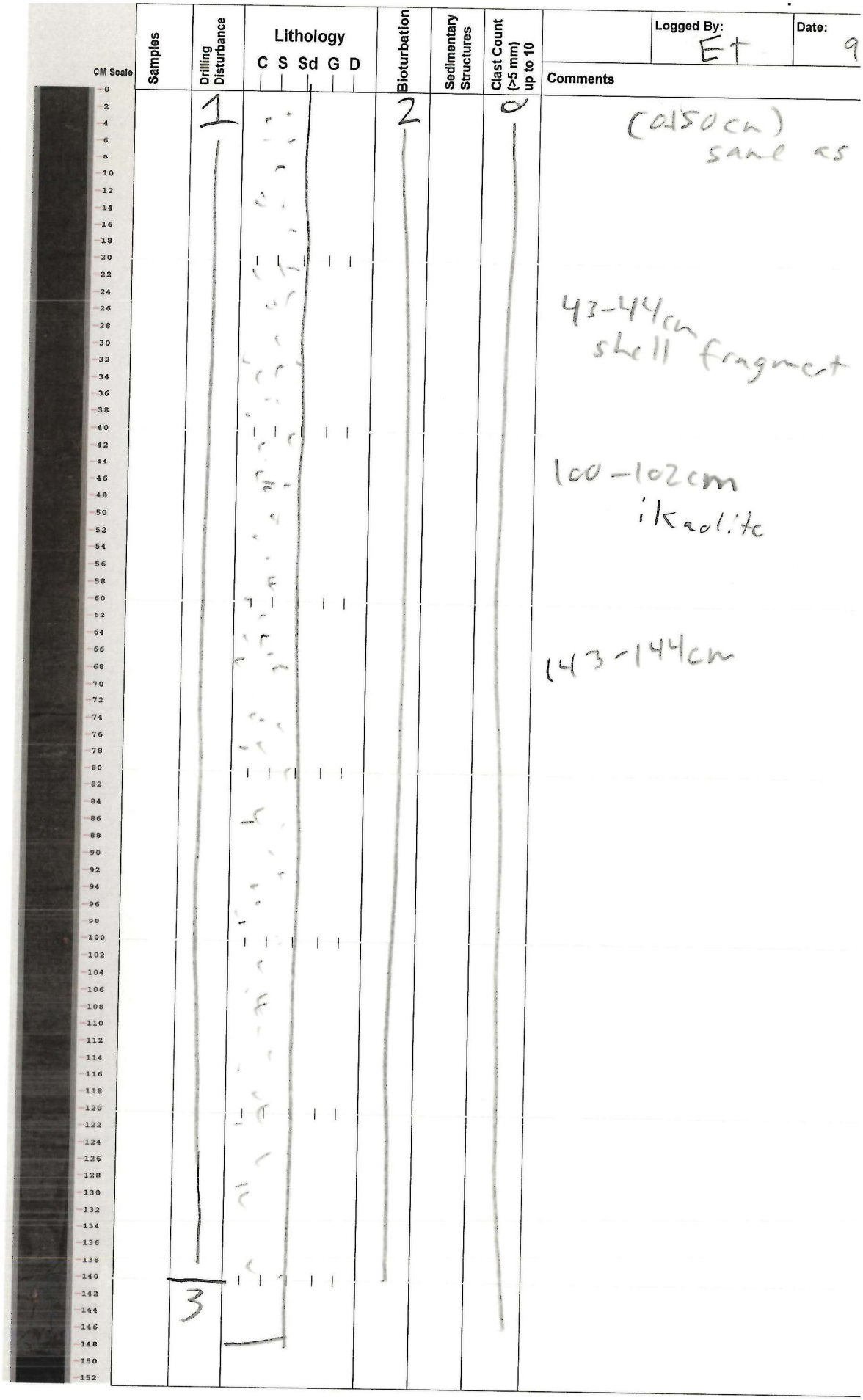
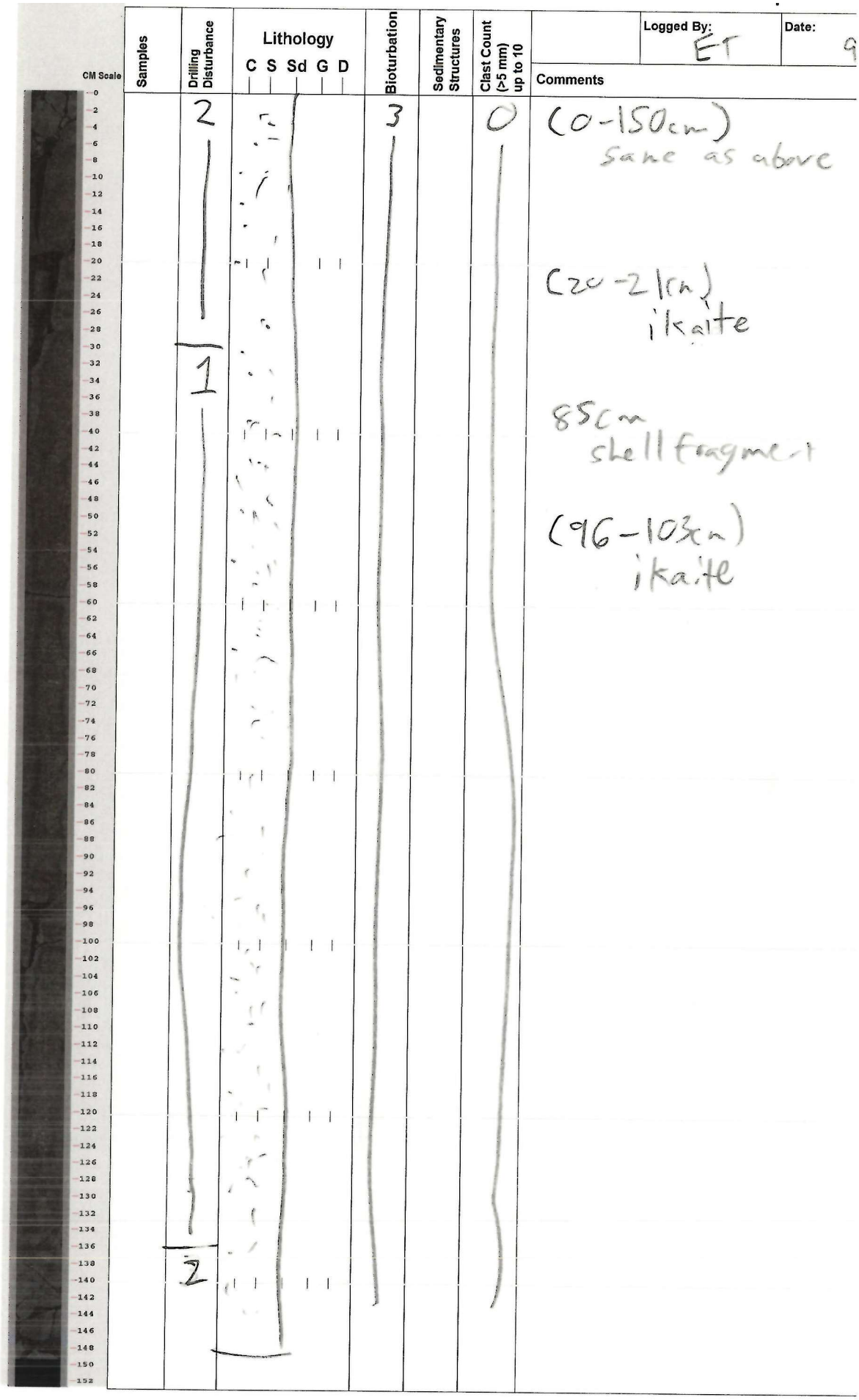
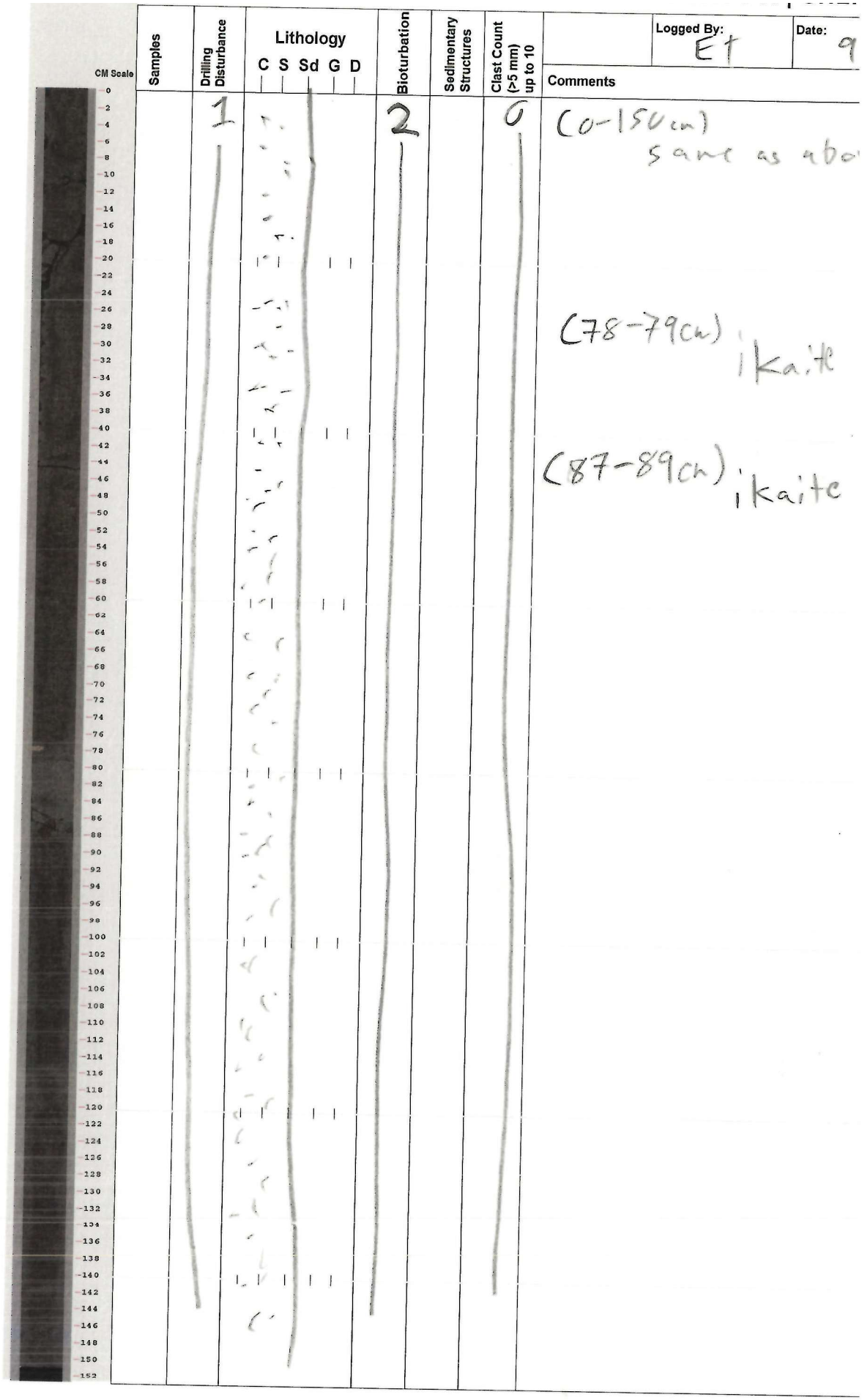
122							
124							
126							
128							
130							
132							
134							
136							
138							
140							
142							
144							
146							
148							
150							
152							

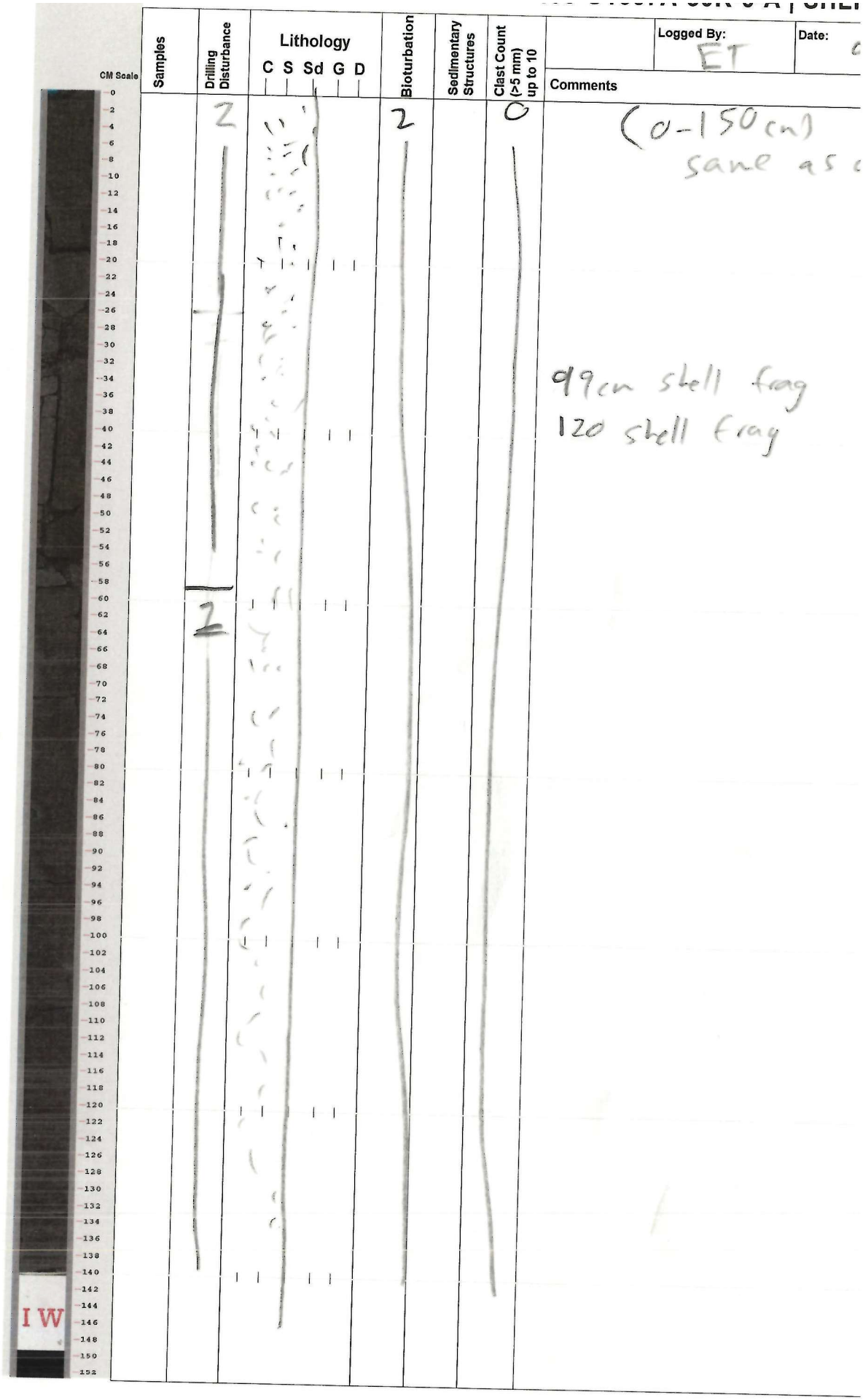
Logged By: Et

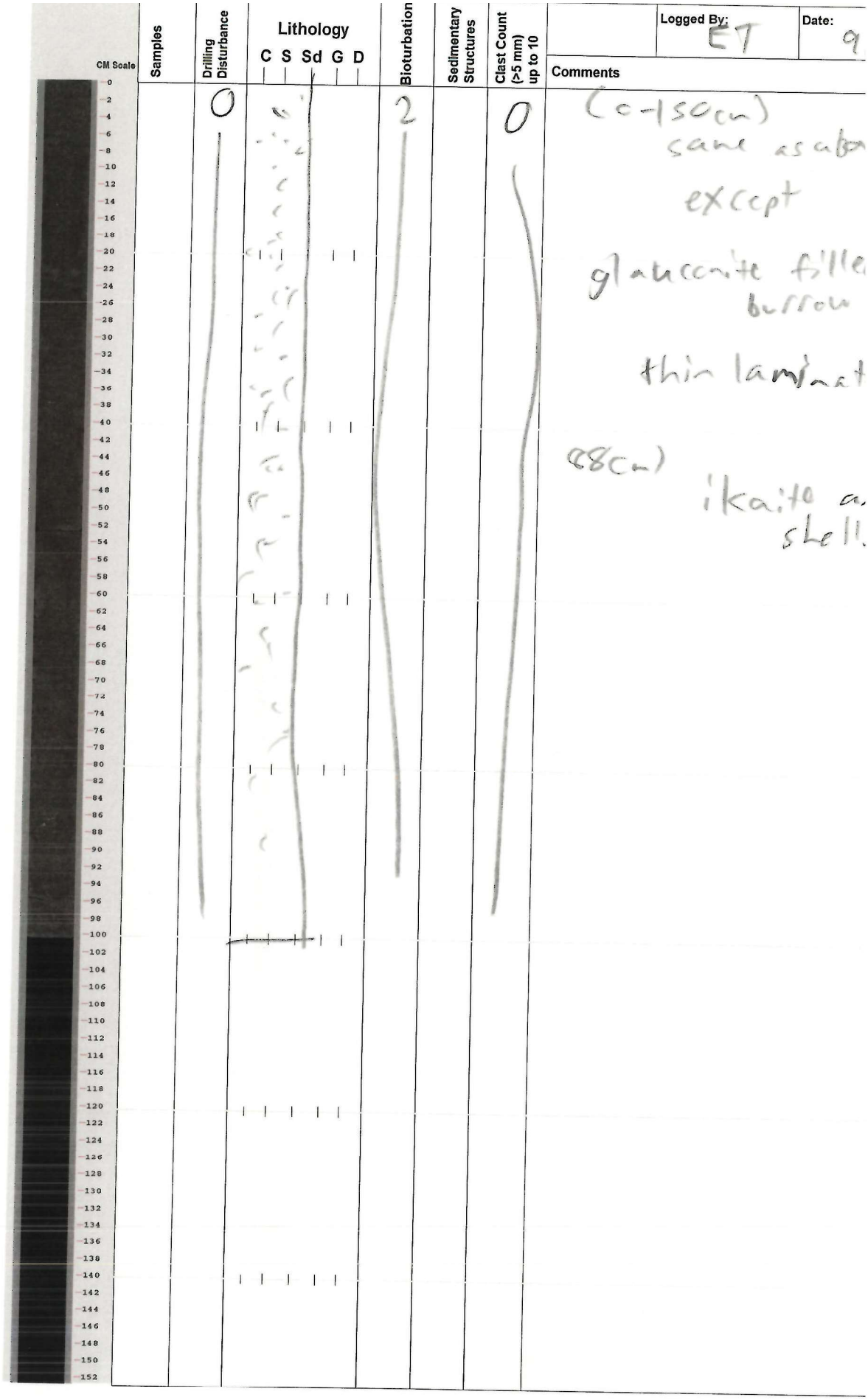
Date: 9/


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By: Et
Date: 9
Comments
1
2
0
(0-50cm) same as
43-44cm shell fragment
100-102cm ikaolite
143-144cm
3


Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
ET
Date:
9
Comments
CM Scale
2
1
2
3
0
(0-150cm)
same as above
(20-21cm)
ikaite
85cm
shell fragment
(96-103cm)
ikaite


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Et
Date:
9
Comments
1
2
0
(0-150cm)
same as abo
(78-79cm); ikait
(87-89cm); ikaitc


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
ET
Date:
Comments
2
2
0
(0-150 cm)
same as
99cm shell frag
120 shell frag
IW


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
ET
Date:
9
Comments
0
2
0
(c-150cm)
same as abo
except
glauconite fille
burrow
thin laminat
88cm)
ikaite a
shell



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0		2		2		0	(0-66cm) same as a but stra possibly Le. lamination
2							
4							
6							
8							
10							
12							
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							
34		1					
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							
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90							
92							
94							
96							
98							
100							
102							
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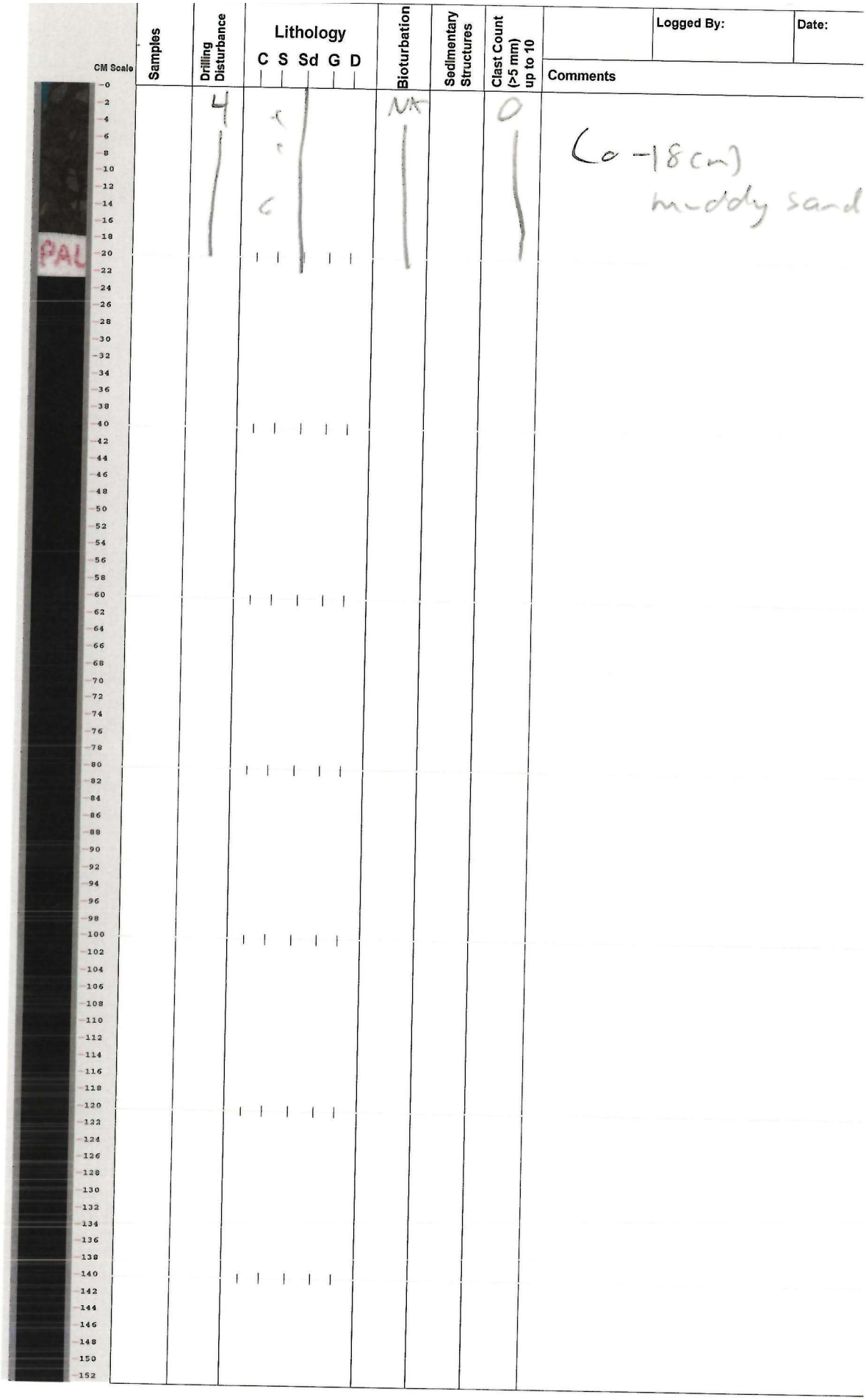
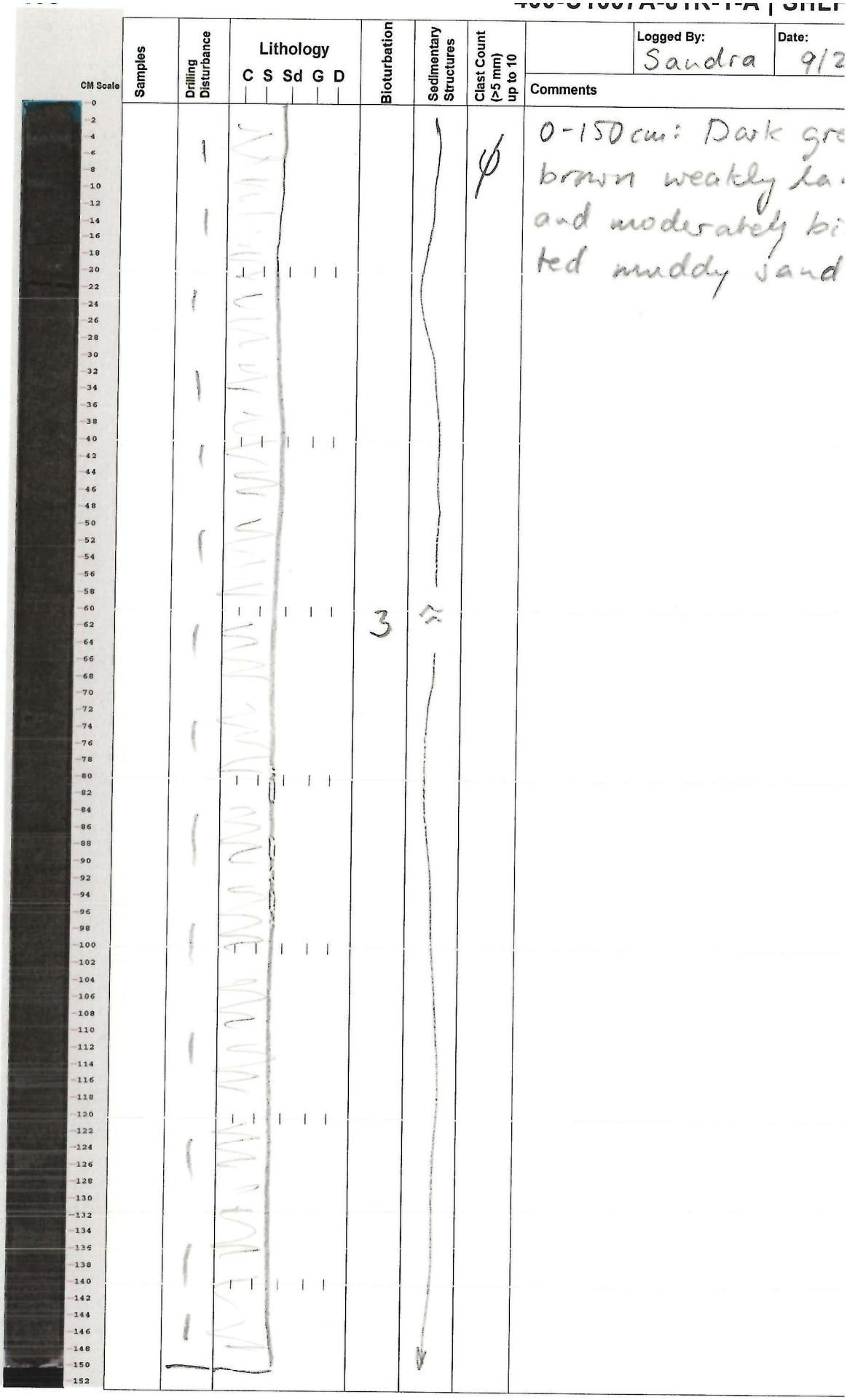
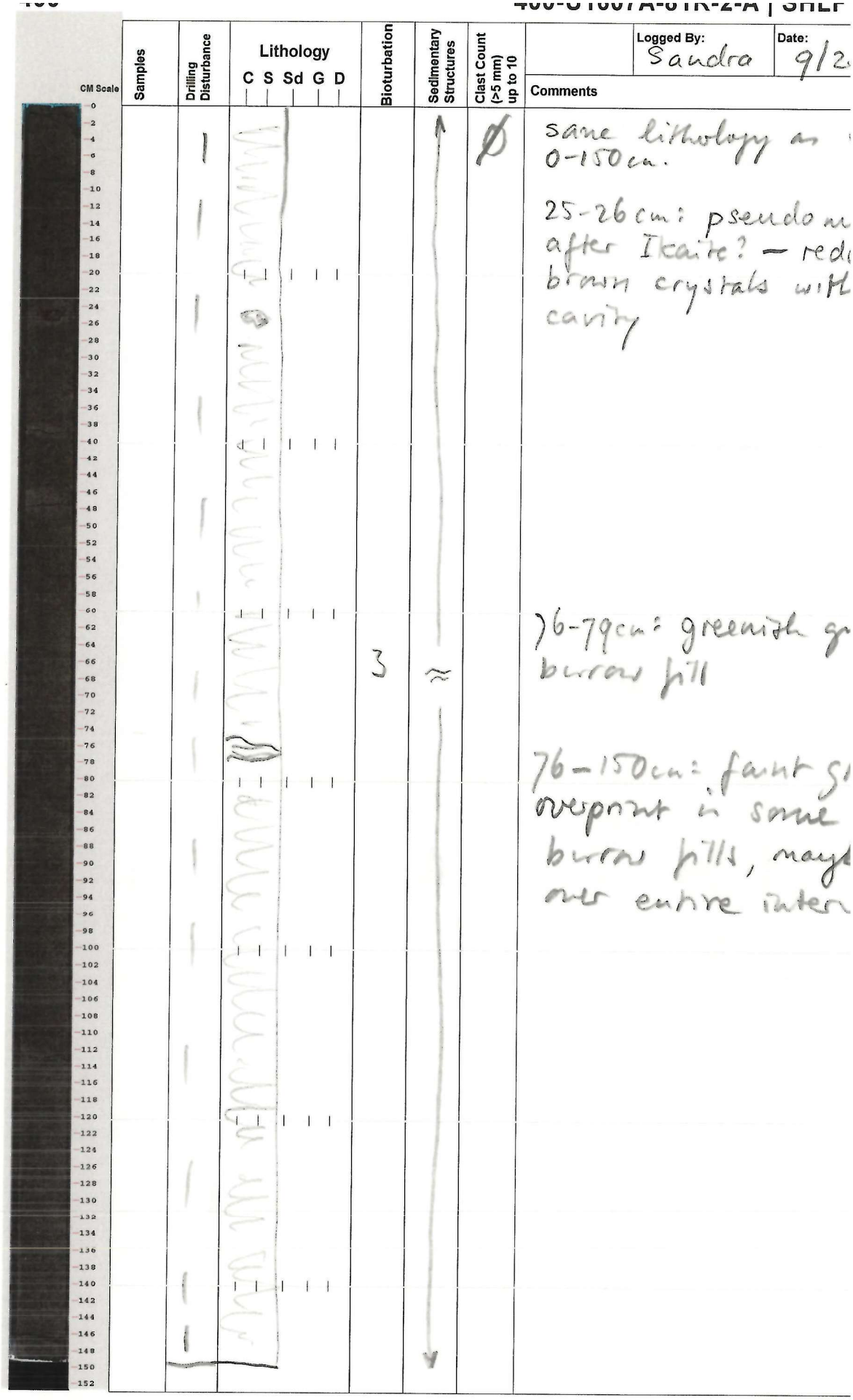
122							
124							
126							
128							
130							
132							
134							
136							
138							
140							
142							
144							
146							
148							
150							
152							

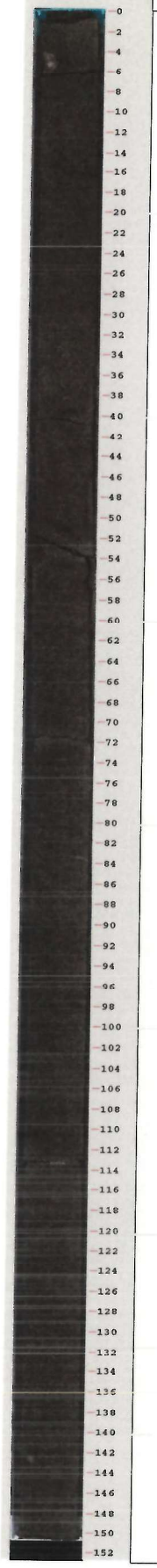
Logged By: Et

Date:


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Date:
Comments
PAL
4
NA
0
(0-18 cm)
muddy sand


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Sandra
Date:
9/2
Comments
0-150 cm: Dark gre
brown weakly la
and moderately bi
ted muddy sand
3


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Sandra
Date:
9/2
Comments
same lithology as
0-150 cm.
25-26 cm: pseudo m
after Ikaite? — red
brown crystals with
cavity
76-79 cm: greenish g
burrow fill
76-150 cm: faint gl
overprint in some
burrow fills, may
over entire inter
3



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: Sandra	Date: 9/2
			3	≈	Ø	Comments	

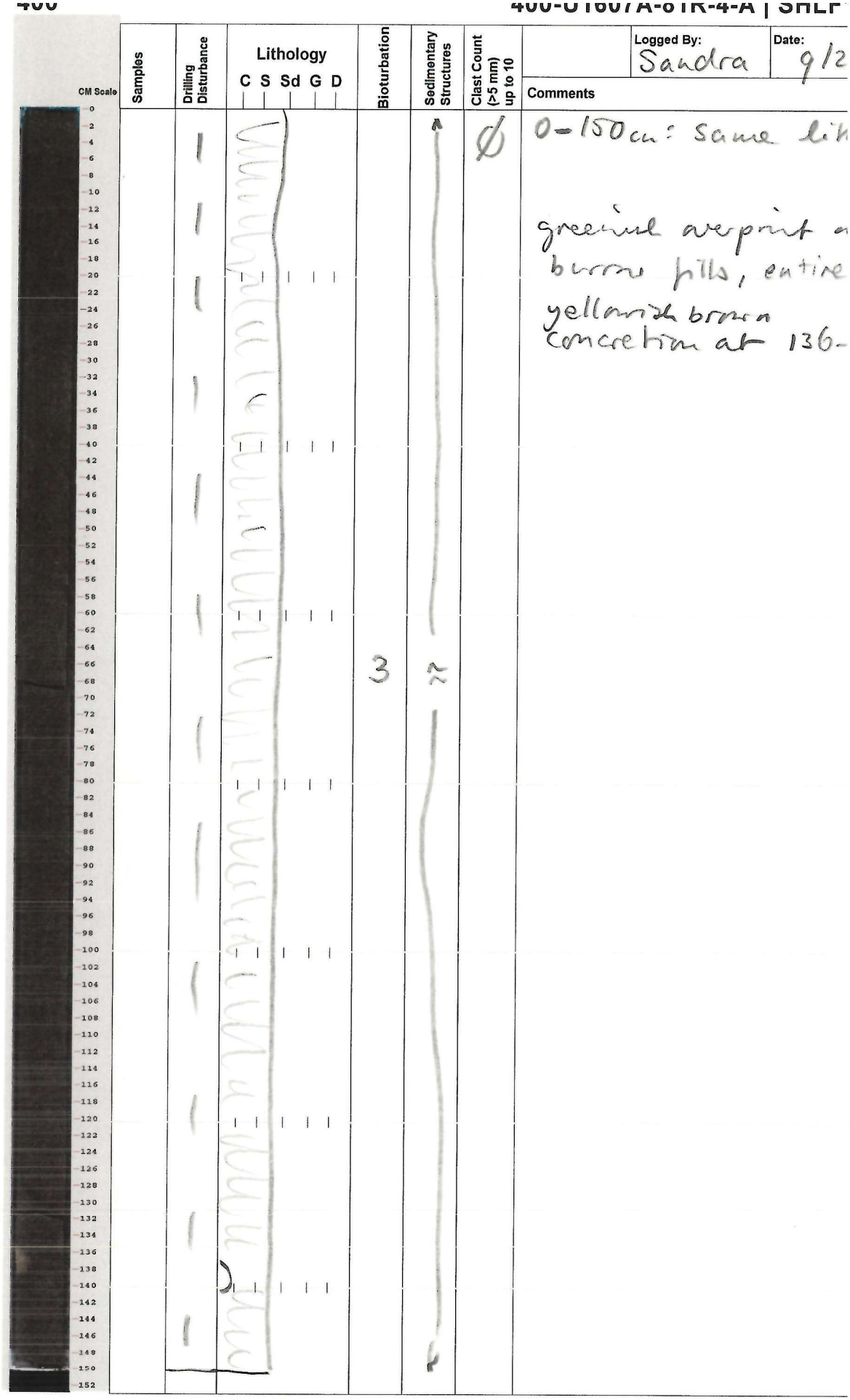
0-151cm: same l as S.1 + 2

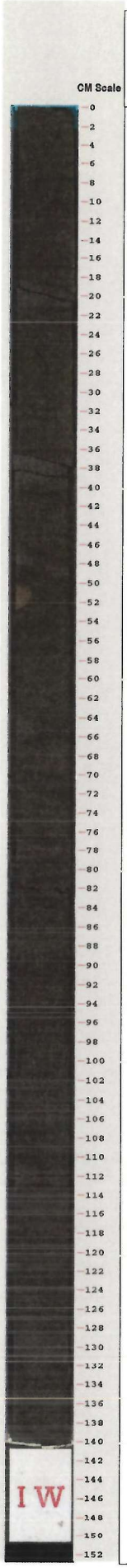
yellowish brown carbonate concreti

4-7cm, 53-55cm, 143-144cm

greenish overprint some burrow fills, e.g. 42-44cm, ma entire section

400 400-U1607A-61R-4-A | SHLF





Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: Sandra	Date: 9/2
						Comments	

0–140 cm: same lith

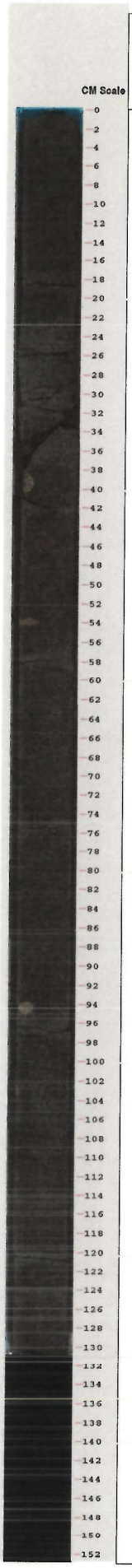
3

33–83 cm: abundan bioturbated

4

50–53: yellowish br concretion (carbonat

3



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: Sandra	Date: 9/2
						Comments	

0-130 cm: Same li

3

yellowish brown ca
concretions at 3P-
53-54 cm, 94-95 cm

58

58-97 cm: more spar
bioturbated interva
with preservation
some lamination

2

≈

97

3

Logged By: Sandra

Date: 9/



CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–2						Ø	0–75cm: Same li
2–4							greenish weprint
4–6							
6–8							
8–10							
10–12							
12–14							
14–16							
16–18							
18–20							
20–22							
22–24							
24–26							
26–28							
28–30							
30–32							
32–34							
34–36				3	≈		
36–38							
38–40							
40–42							
42–44							
44–46							
46–48							
48–50							
50–52							
52–54							66–68cm: yellowish
54–56							concretion w/ grey c
56–58							
58–60							
60–62							
62–64							
64–66							
66–68							
68–70							
70–72							
72–74							
74–76							
76–78							
78–80							
80–82							
82–84							
84–86							
86–88							
88–90							
90–92							
92–94							
94–96							
96–98							
98–100							
100–102							
102–104							
104–106							
106–108							
108–110							
110–112							
112–114							
114–116							
116–118							
118–120							
120–122							
122–124							
124–126							
126–128							
128–130							
130–132							
132–134							
134–136							
136–138							
138–140							
140–142							
142–144							
144–146							
146–148							
148–150							
150–152							



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
	1 1 1		3	↑ (~) ↓	Ø

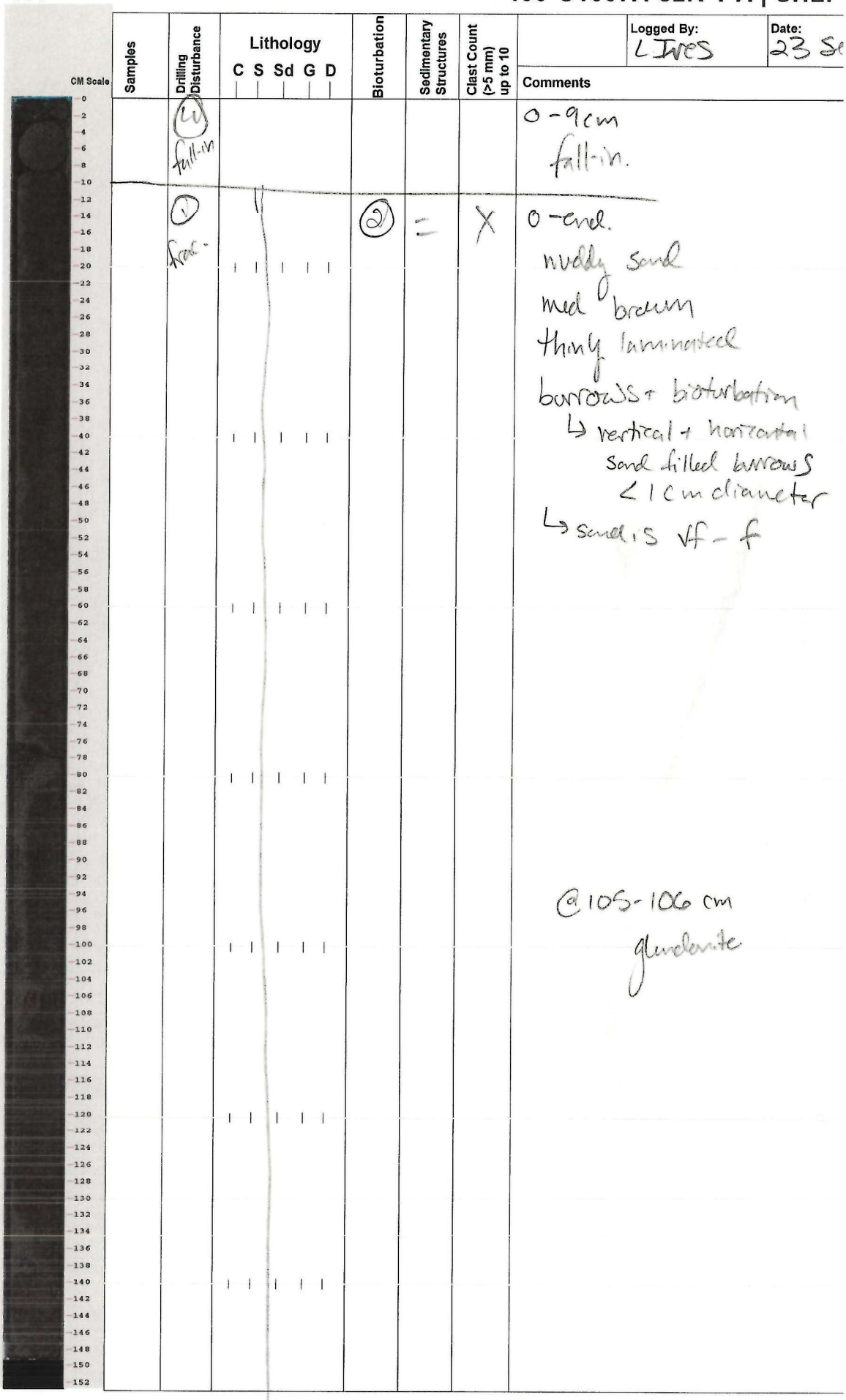
Logged By: Sandra

Date: 9/2

Comments

0-14cm: same lit

yellowish brown cr
with grey core at


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
L Ives
Date:
23 Se
Comments
0-9cm
fall-in.
0-end.
muddy sand
med brown
thinly laminated
burrows + bioturbation
↳ vertical + horizontal
sand filled burrows
< 1 cm diameter
↳ sand is vf - f
@105-106 cm
glauconite



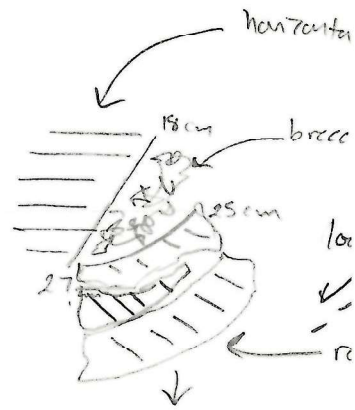
Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: L. Ives	Date: 23-9
	(1) for.		(2)			Comments: AS above ↳ rare shell fragmen ↳ glendarts @ 41 cm, 89 cm	
	(3) fault					140-145 cm high ∠ fault w/ striated sides	

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
	1 frac		2 ↓	= ↓	

Logged By: Date:

Comments faults common in th





laminace
are off horizon
down to ~

glendonites @ 40cm, 84cm



vf sand - silt
+ clay

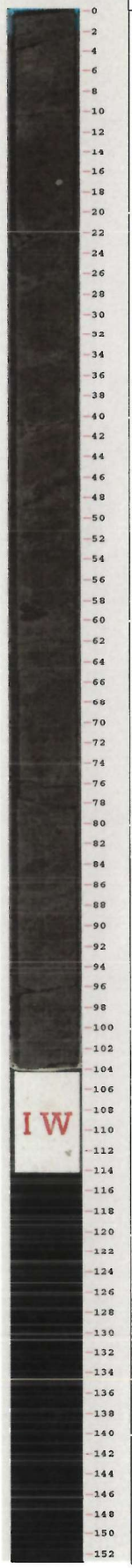
0-90 cm: dk brown
~~sandy~~ muddy s

Sharp, unfaulted

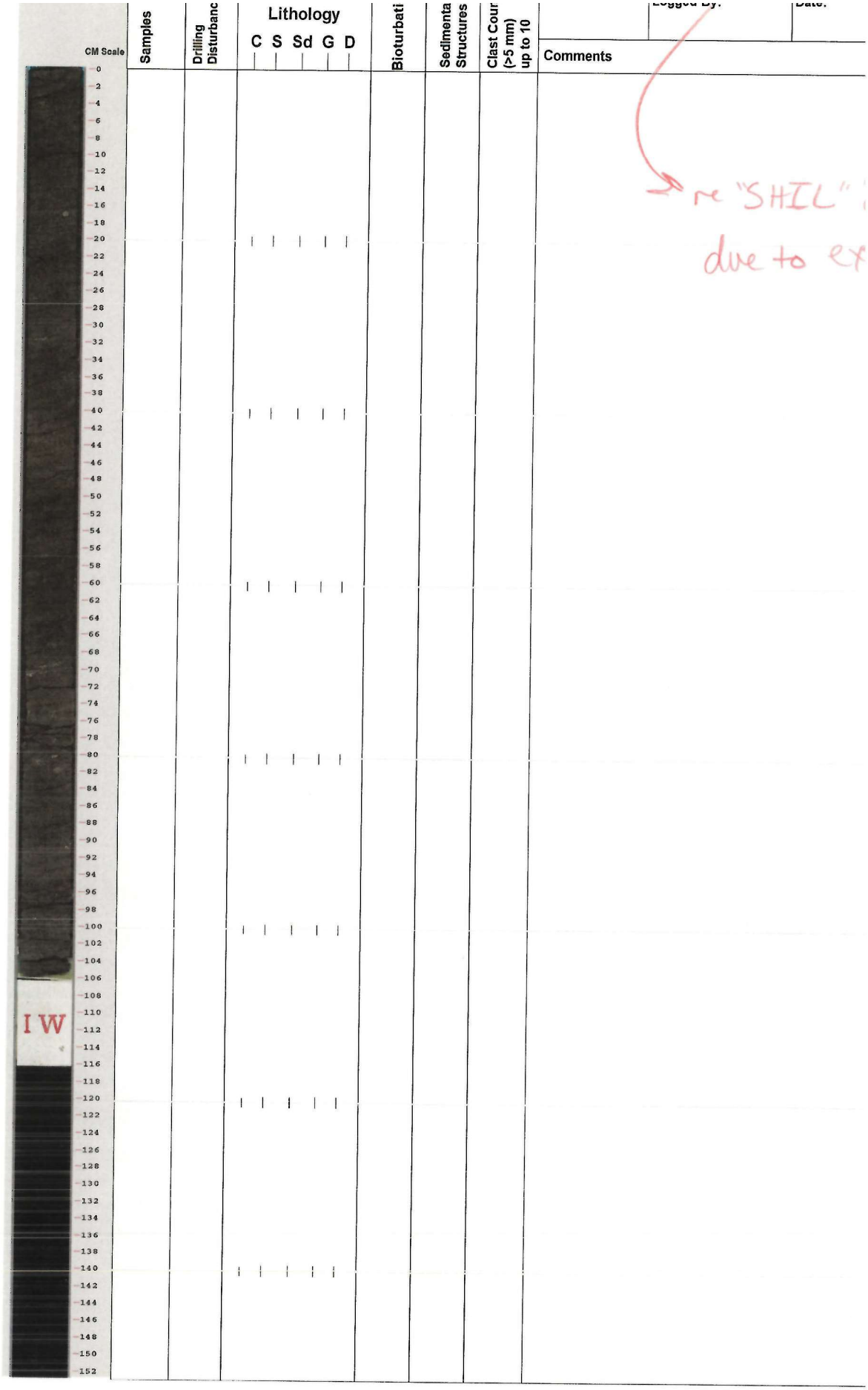
med brown → mud
~~mud sandy~~

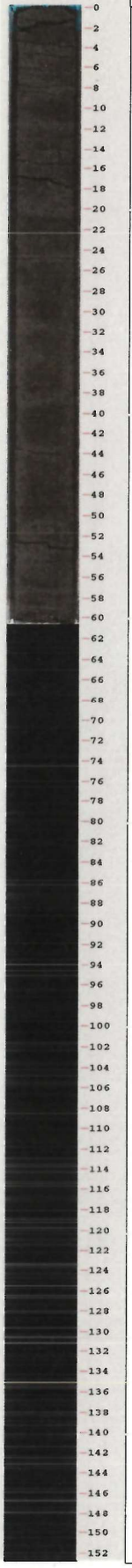
↳ medium color
come from y
whispy mud

↳ pyritized lam
up to 0.5 c
thi

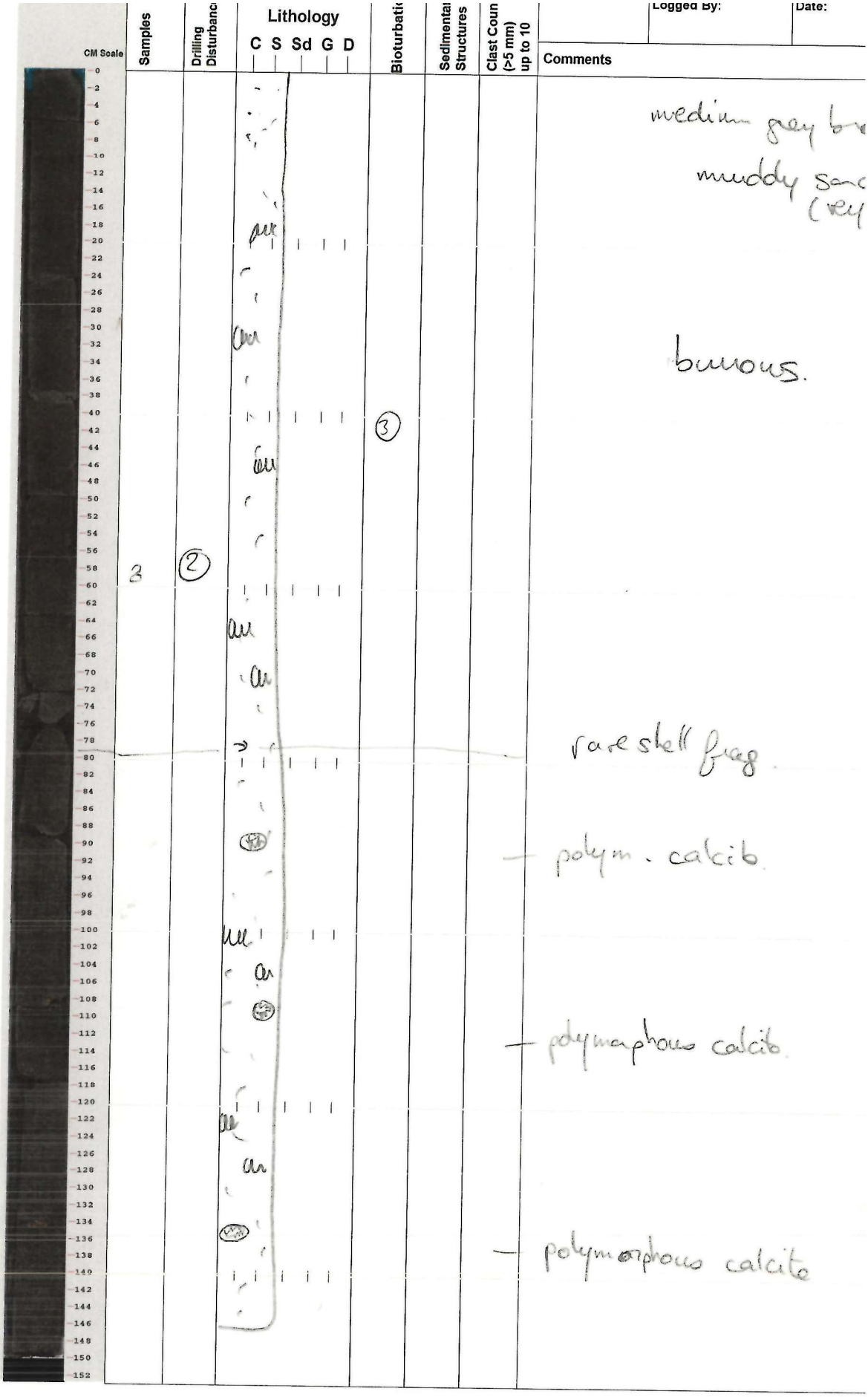


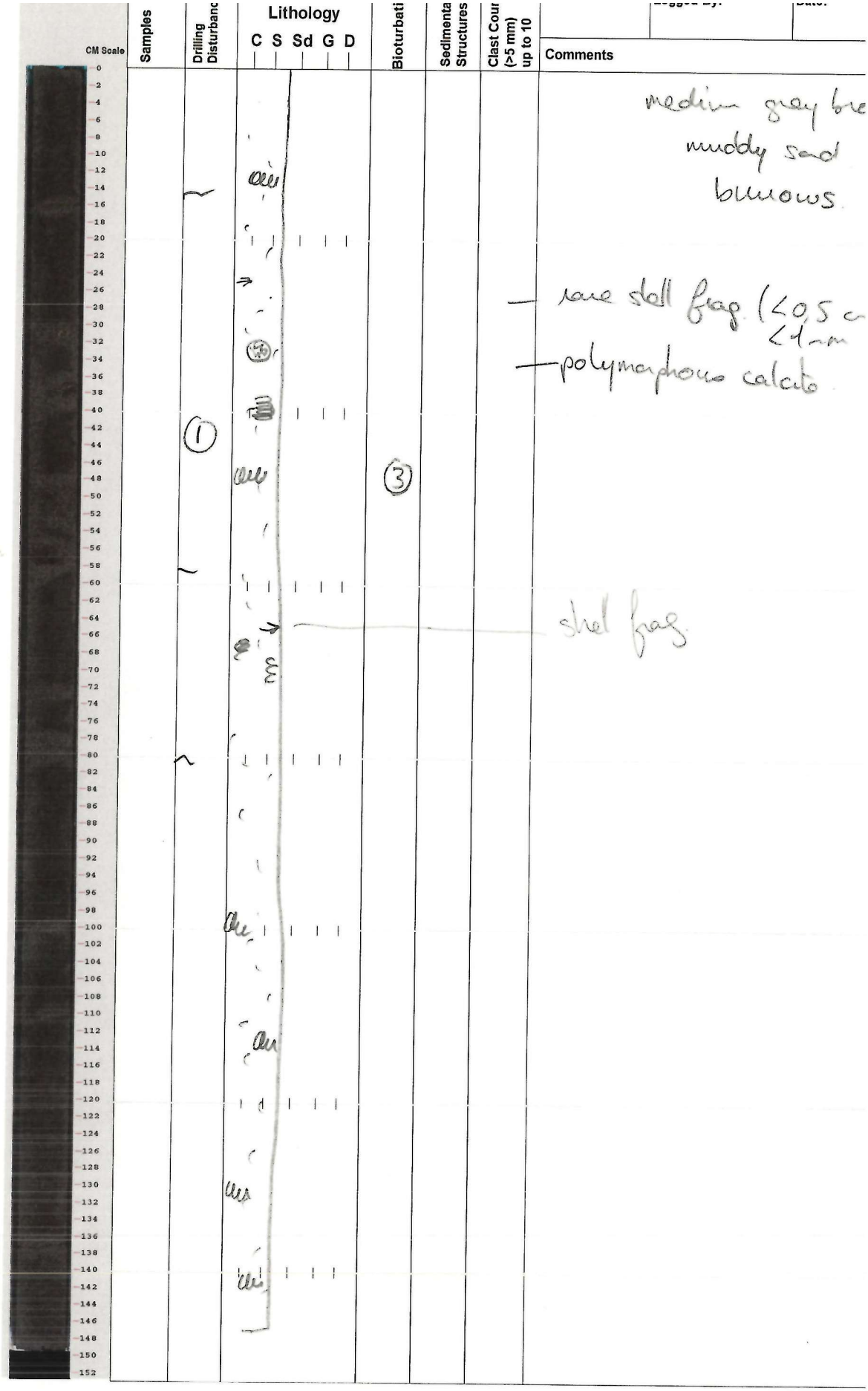
Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: L. Ives	Date: 23 S
	(1) fau.		(2) ↓	= ↓		Comments: As above. ↳ both pyrite + sed-f burrows	

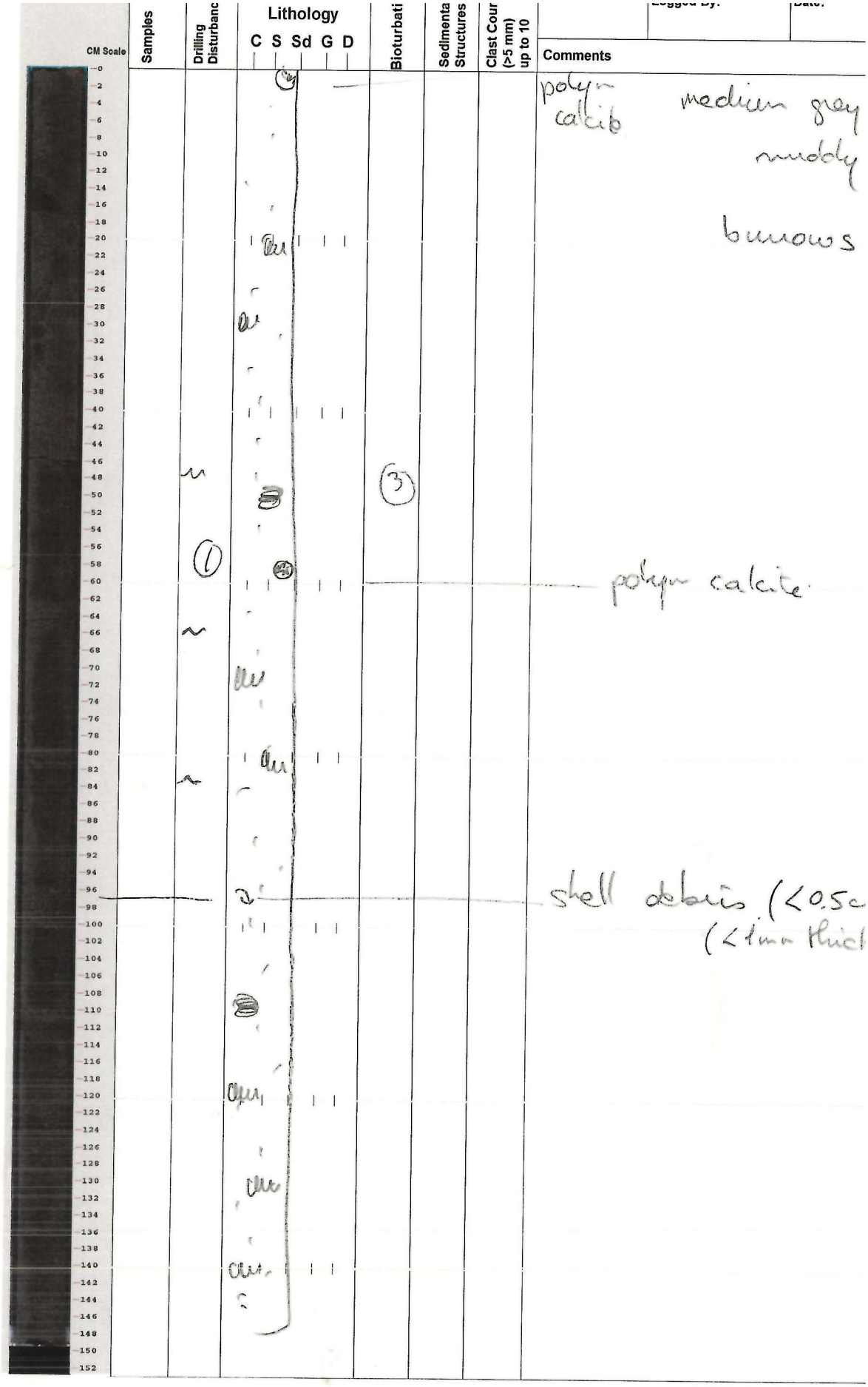

CM Scale
Samples
Drilling Disturbanc
Lithology
C S Sd G D
Bioturbati
Sedimenta Structures
Clast Cour (>5 mm) up to 10
Comments
IW

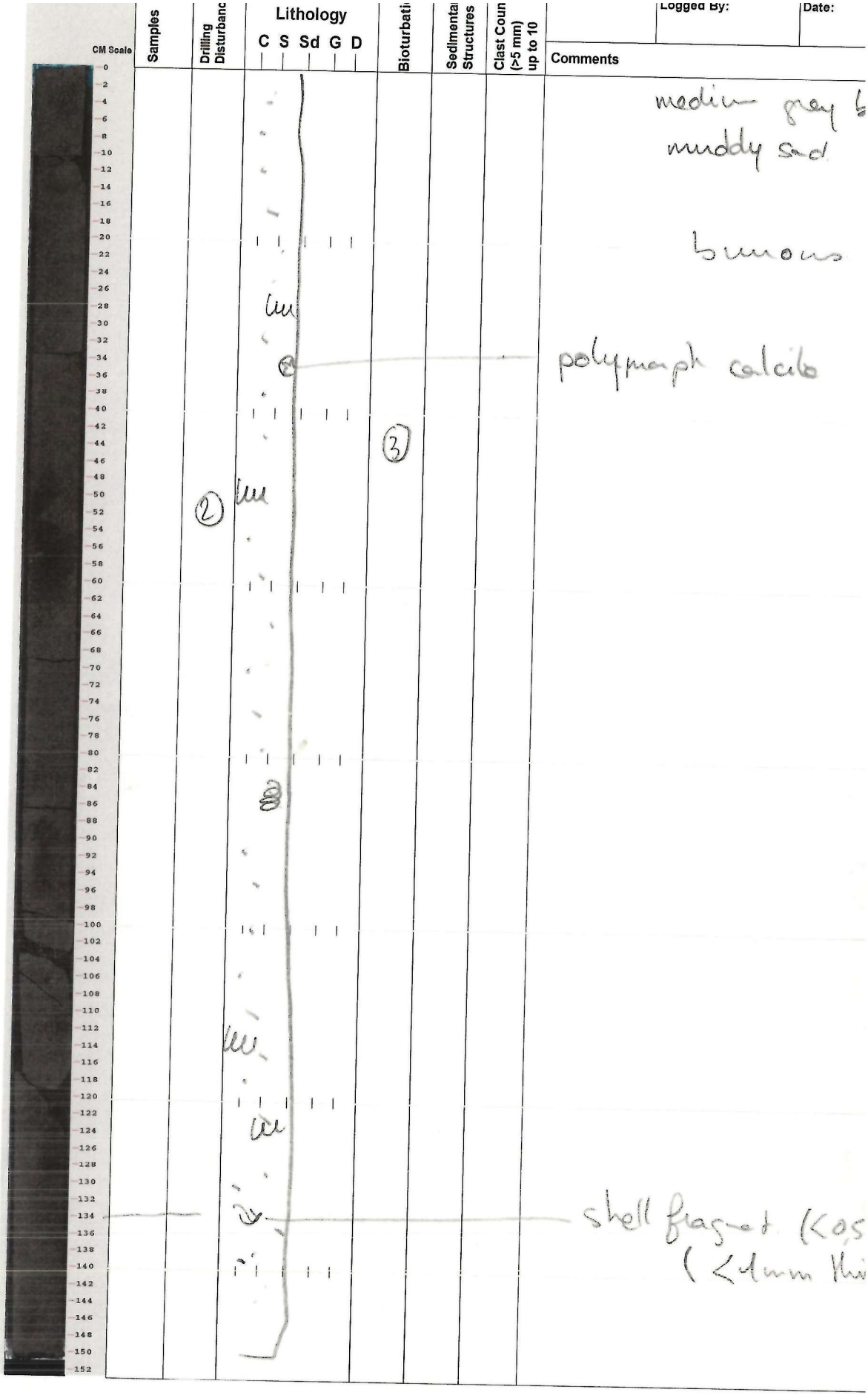


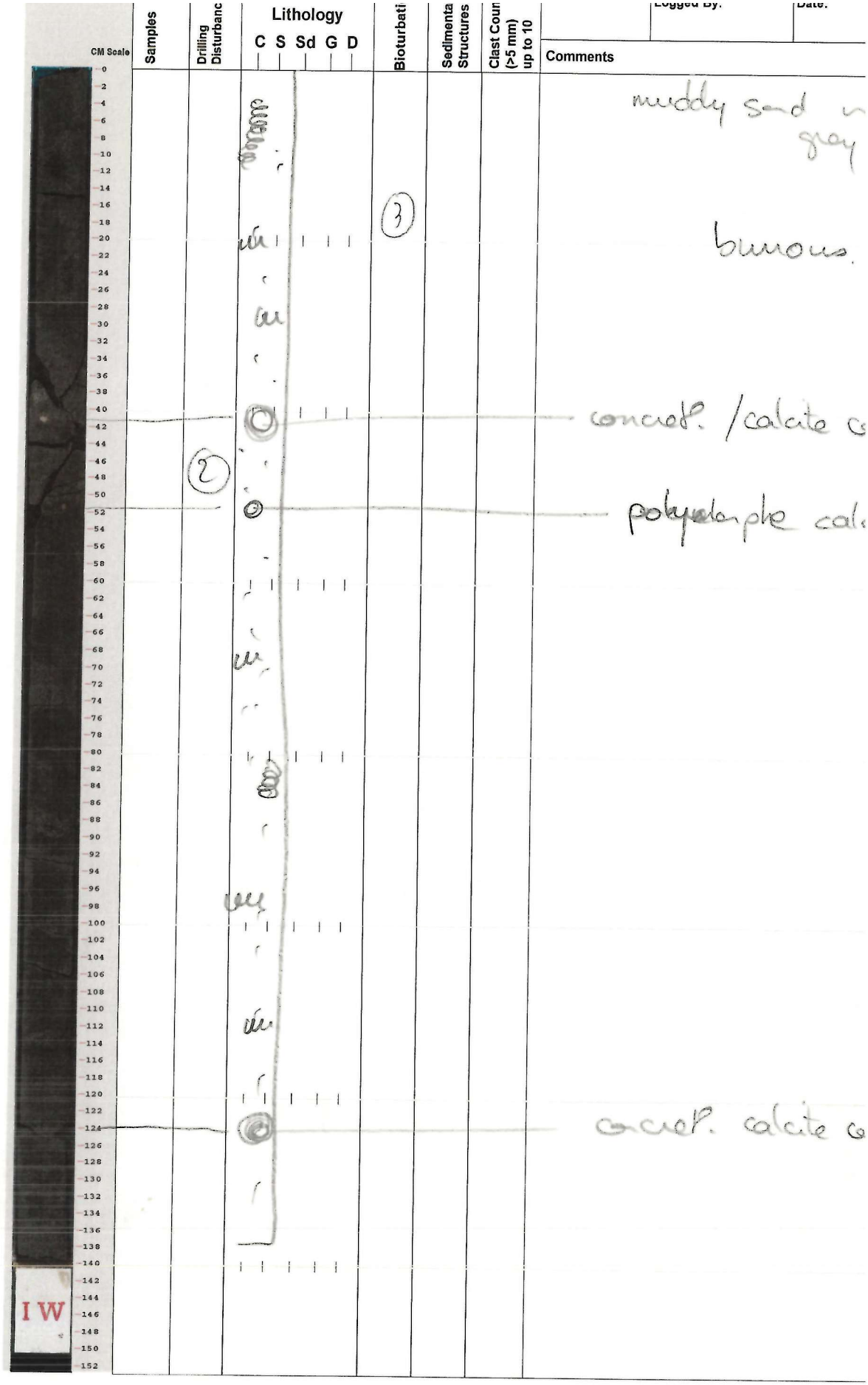
Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: L. Ives	Date: 23 S
	(1) Ref.					Comments: As above no Pyrite, just - sand (in burrows)	


Logged By:
Date:
CM Scale
Samples
Drilling Disturbanc
Lithology
C S Sd G D
Bioturbati
Sedimental Structures
Clast Coun (>5 mm) up to 10
Comments
medium gray bro
muddy sand
(rey
burrows.
3
2
3
rare shell frag.
polym. calcit
polymorphous calcite
polymorphous calcite


CM Scale
Samples
Drilling Disturbanc
Lithology
C S Sd G D
Bioturbati
Sedimenta Structures
Clast Cour (>5 mm) up to 10
Comments
medium gray bro
muddy sand
burrows
rare shell frag (<0.5 c
<1 mm
polymaphous calcit
shell frag
1
3


CM Scale
Samples
Drilling Disturbanc
Lithology
C S Sd G D
Bioturbati
Sedimenta Structures
Clast Cour (>5 mm) up to 10
Logged By:
Date:
Comments
polym calcite
medium grey muddy
burrows
polym calcite
shell debris (<0.5c
(<1mm thick


CM Scale
Samples
Drilling Disturbanc
Lithology
C S Sd G D
Bioturbati
Sedimental Structures
Clast Coun (>5 mm) up to 10
Logged By:
Date:
Comments
medium grey b
muddy sand
burrows
polymorph calcite
shell fragment (<0,5
(<1mm thi

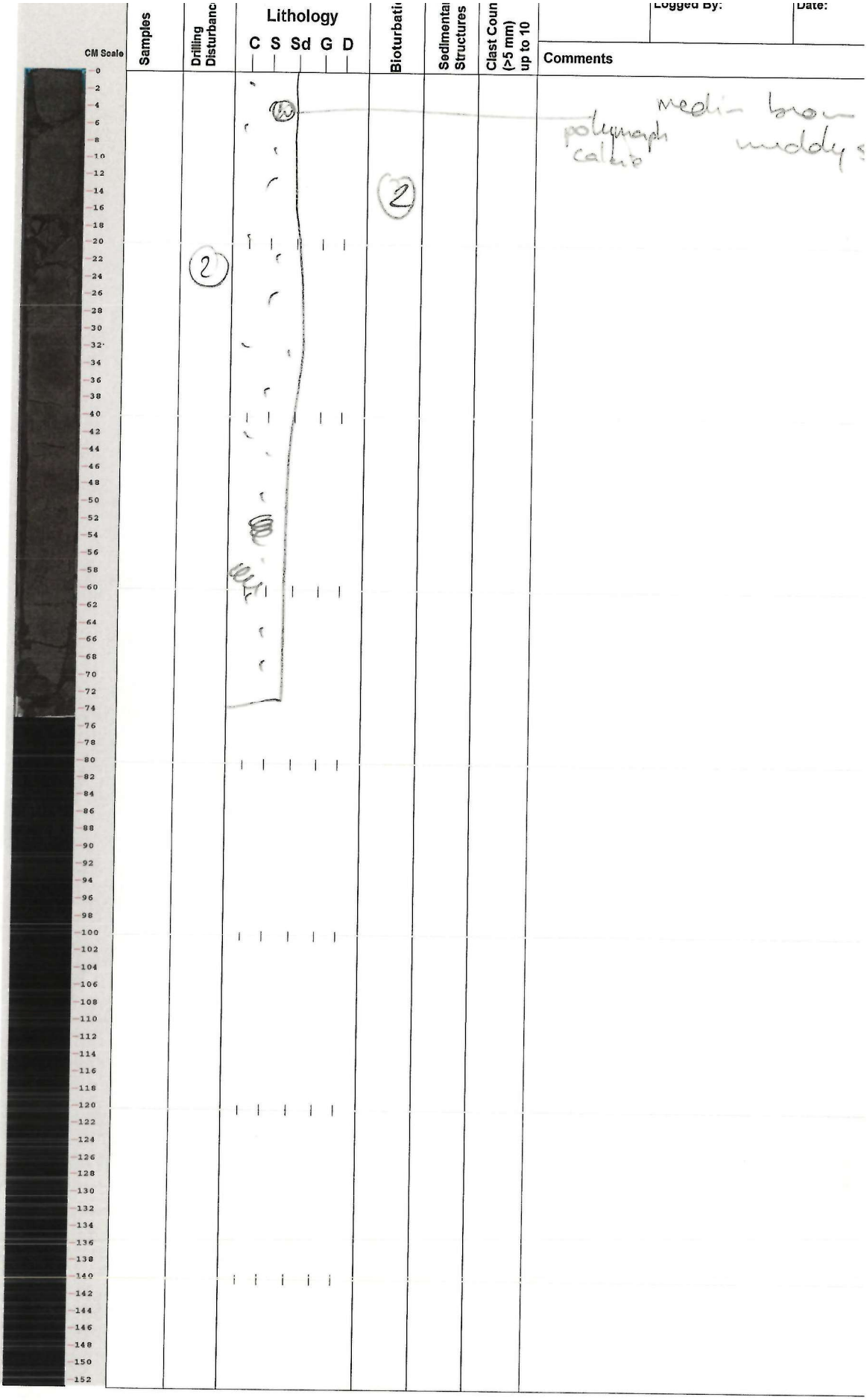


CM Scale
Samples
Drilling Disturbanc
Lithology
C S Sd G D
Bioturbati
Sedimenta Structures
Clast Coun (>5 mm) up to 10
Logged By:
Date:
Comments
muddy sand
gray
3
burrows.
concret. /calcite c
2
polymorphe cal
concret. calcite c
IW

Logged By: | Date:

CM Scale	Samples	Drilling Disturbanc	Lithology C S Sd G D	Bioturbati	Sedimenta Structures	Clast Coun (>5 mm) up to 10	Comments
0–152		(2)		(3)			media gray b muddy s burows concretion calcit concret. around p calcite coat red/ cryst ligh yellow c shell fragment (<1m (gastero.





CM Scale	Samples	Drilling Disturbanc	Lithology C S Sd G D	Bioturbati	Sedimental Structures	Clast Coun (>5 mm) up to 10	Comments
0							
2							
4							
6							
8							
10							
12							
14				2			
16							
18							
20							
22		2					
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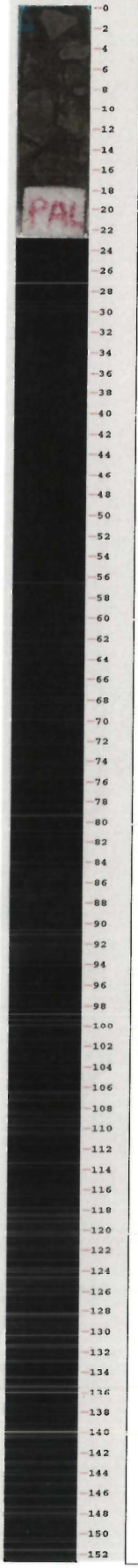
140							
142							
144							
146							
148							
150							
152							

Logged By: | Date:

Lithology: C S Sd G D

Comments: polymorph calcite; medi- brown muddy s



Samples | Drilling Disturbanc | Lithology C S Sd G D | Bioturbati | Sedimental Structures | Clast Coun (>5 mm) up to 10 | Logged By: | Date:

Comments

medium brown

(3)

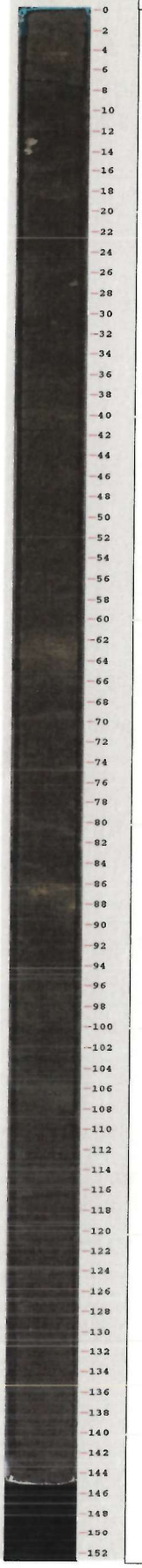
not visible

Logged By: Sandra
Date: 9/2

Comments: expanding sec



CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20		cracks					0–150 cm: Dark greyish muddy very fine sa moderately biotuba w/ weak laminat
20–40							31–32 cm: rounded sc clast w/ burrows, ~ or concretion?
40–60				4	↑52		44–46 cm: two ~0.5 cm cavities with reddi brown mineral (pse morphs?)
60–80				3	↓76		
80–120				4			
120–150							123–129 cm: core surfa raised (rubble unde



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: Sandra	Date: 9/23
						Comments: Cores are expa-	

0–146cm: same litho

13–15cm: pyrite conc

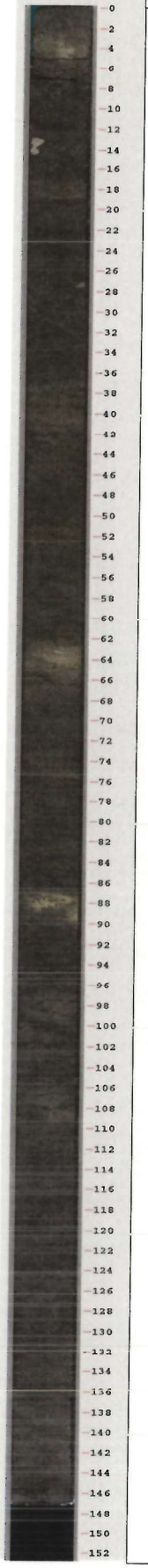
~27cm: pyritized b

62–66cm: yellow (ami burrow fills

Bioturbation: 4

86–89cm: yellow bura

(yellow material rea slowly with 10% H



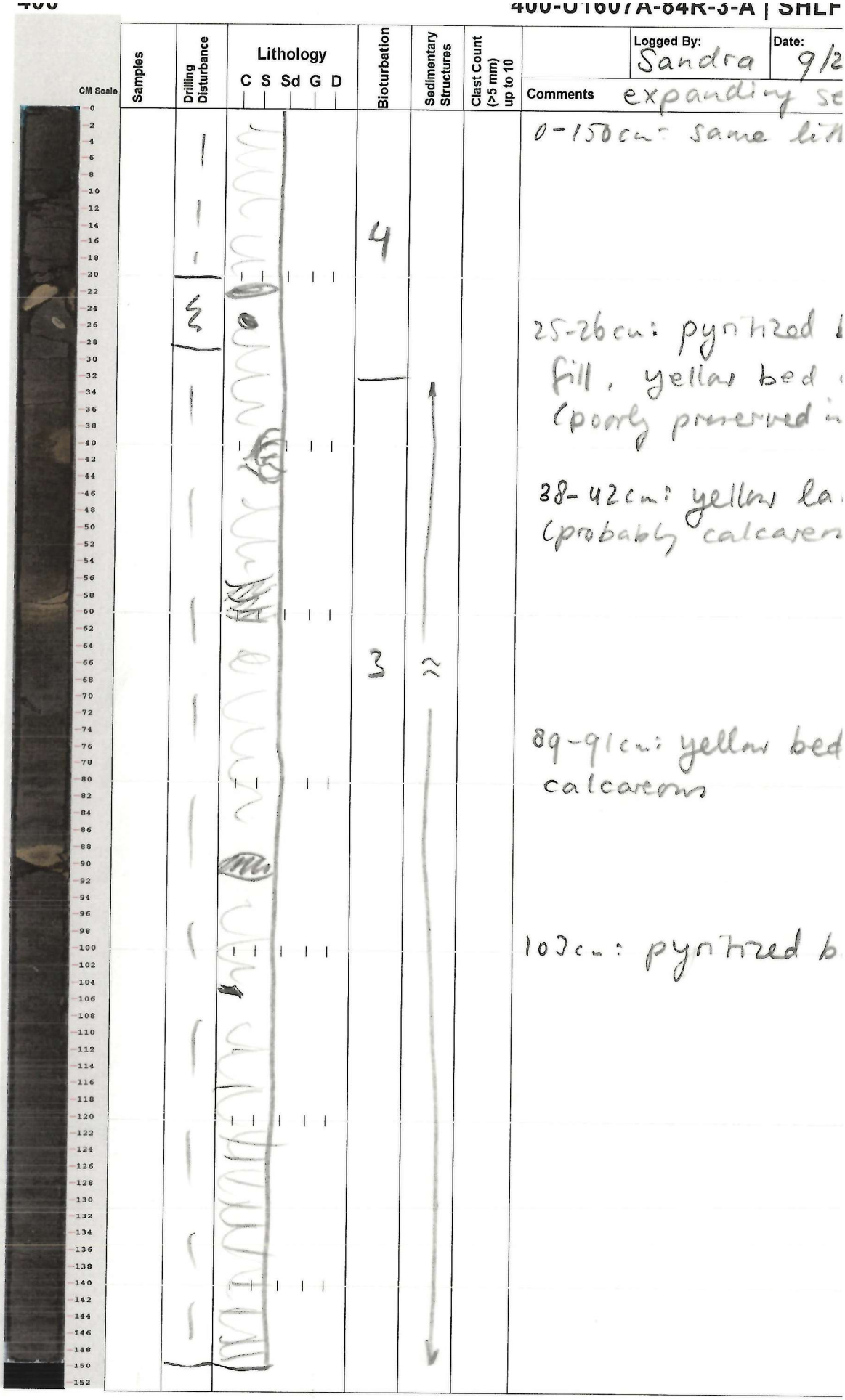
Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10

Logged By:

Date:

Comments

Core liner extended
section shifted
downward ~1 cm.

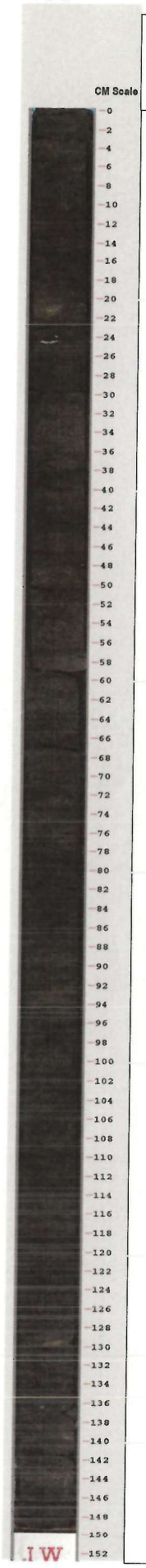

CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By: Sandra
Date: 9/2
Comments expanding se
0-150cm: same lith
4
25-26cm: pyritized
fill, yellow bed
(poorly preserved
38-42cm: yellow la
(probably calcareo
3
89-91cm: yellow bed
calcareous
103cm: pyritized b

Logged By: Sandra
Date: 9/2

Comments: less expansion



CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152				3	≈	Ø	0–150 cm: same li[illegible] more clearly defi[illegible] laminae
80–100							98–101 cm: yellowish bioturbated interv[illegible]
100–120							143–144 cm: yellowish
100–120							105–107 cm: pyritize burrows



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
			3		

Logged By: Sandra Date: 9/2

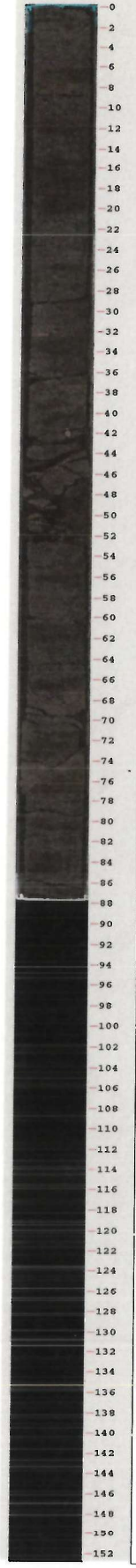
Comments: Section expand

0-150cm: same li

21-23cm: yellowish

25cm: pyritized b

137cm: pyritized bu



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: Sandra	Date: 9/23
						Comments	

0–88cm: same lith

14–15 cm: pyritized

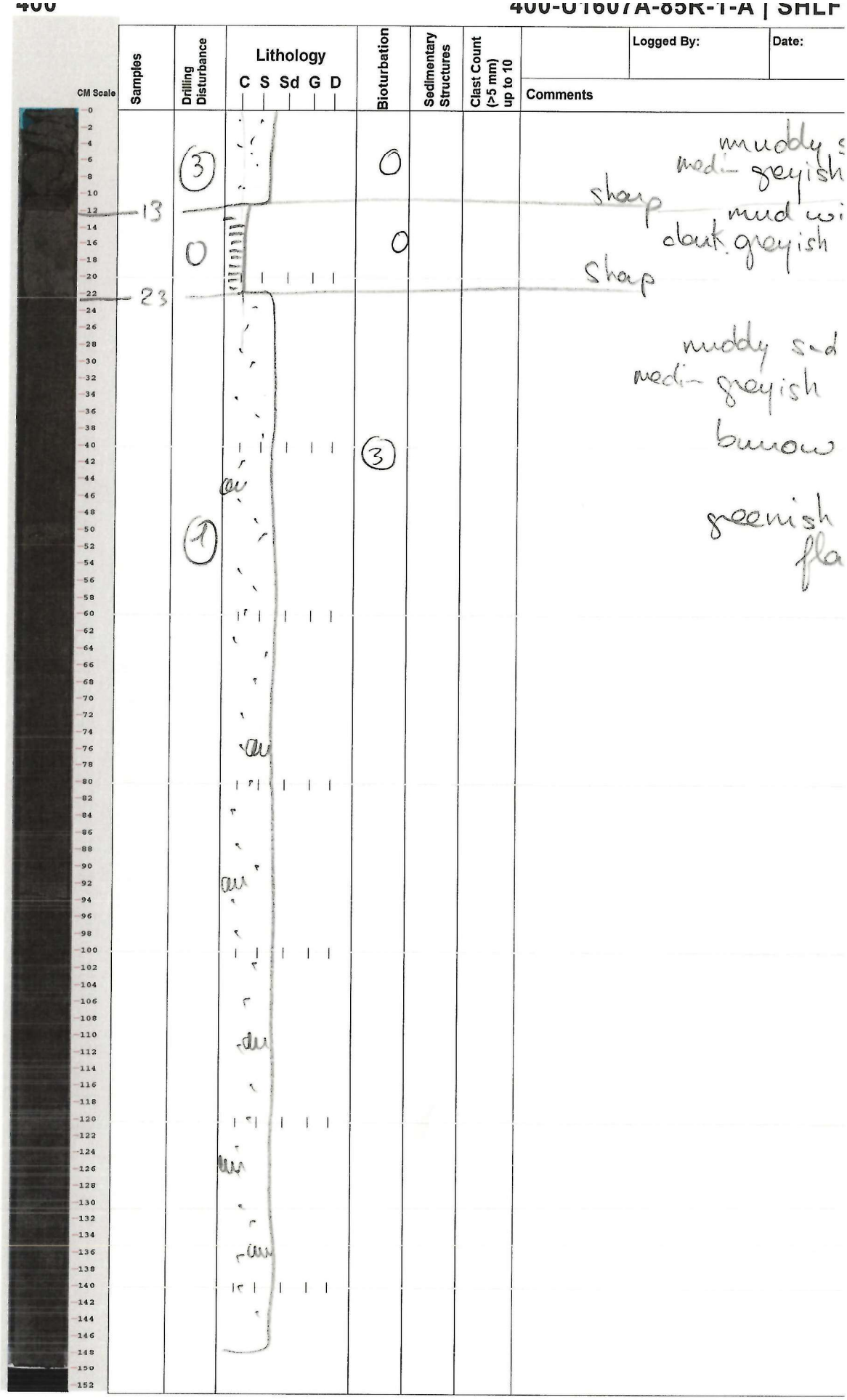
3

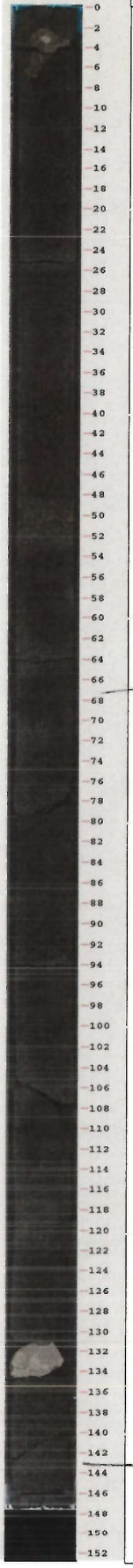
42–43cm: pyritized

Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: Sandra	Date: 9/2
						Comments expanding	
			3		Ø	Same lithology	



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


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Date:
Comments
13
23
3
0
0
3
1
muddy s
medi- greyish
sharp
mud wi
about greyish
Sharp
muddy sand
medi- greyish
burow
greenish
fla



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	

muddy sand
medium bio
concret?

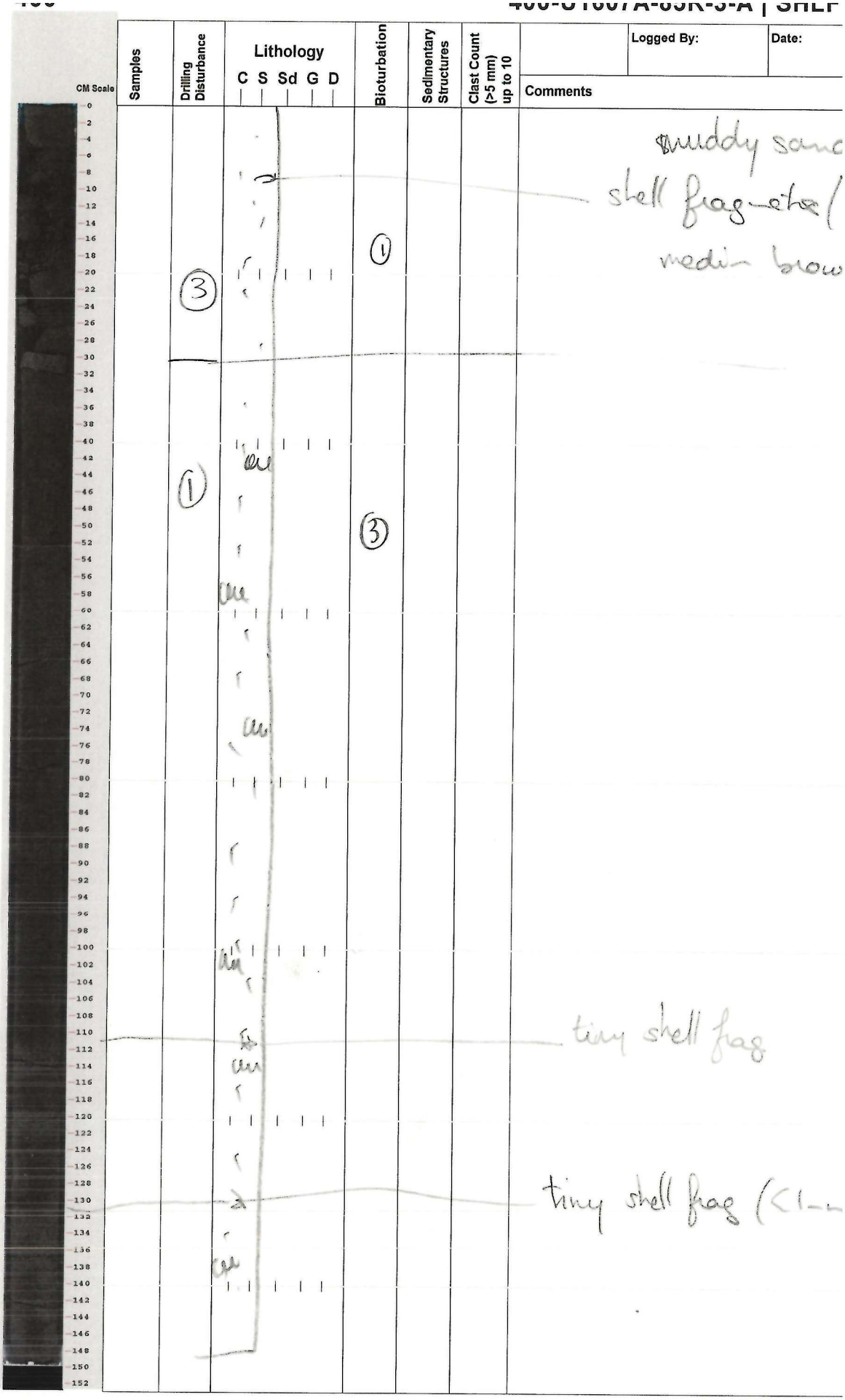
burrows

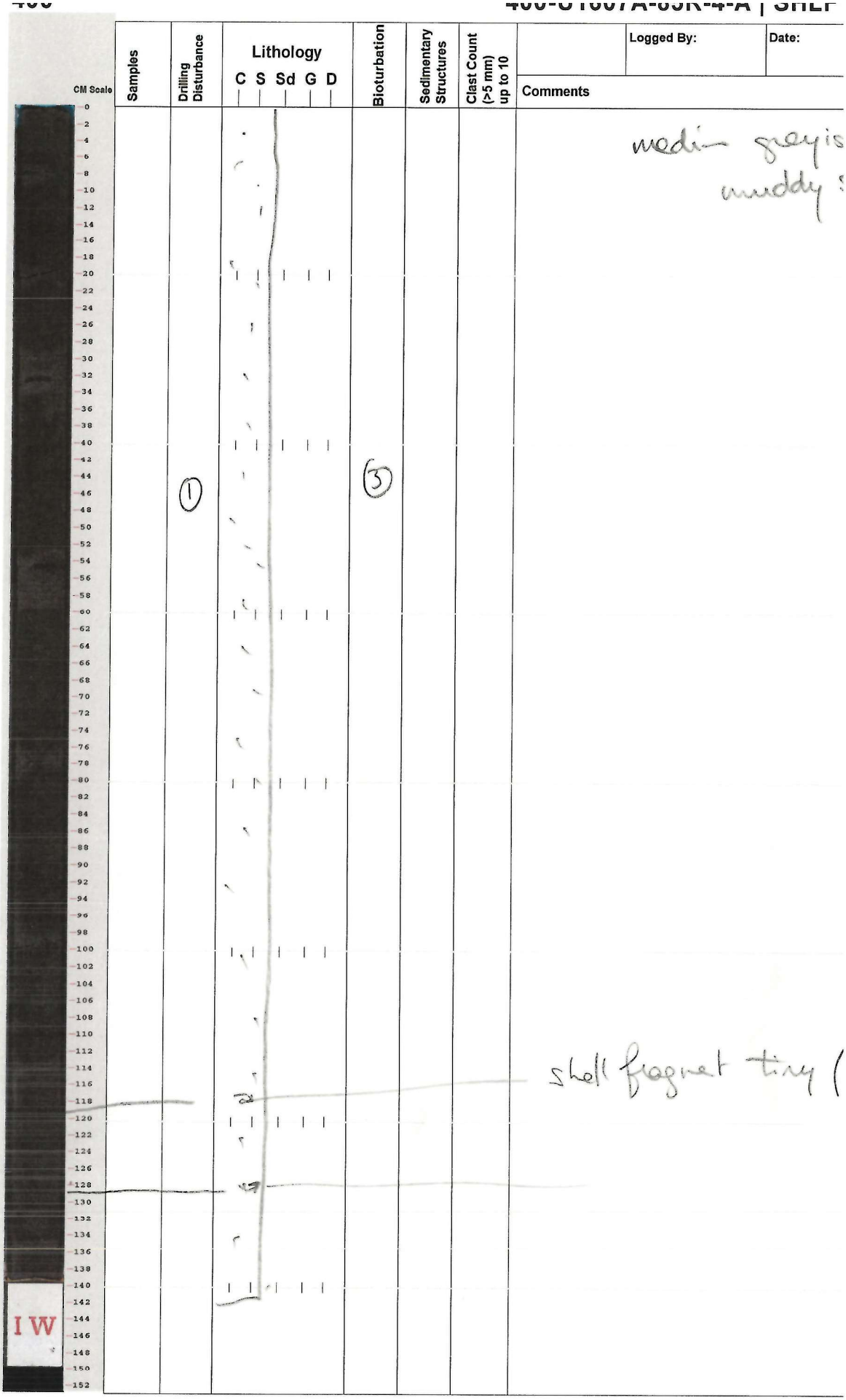
3

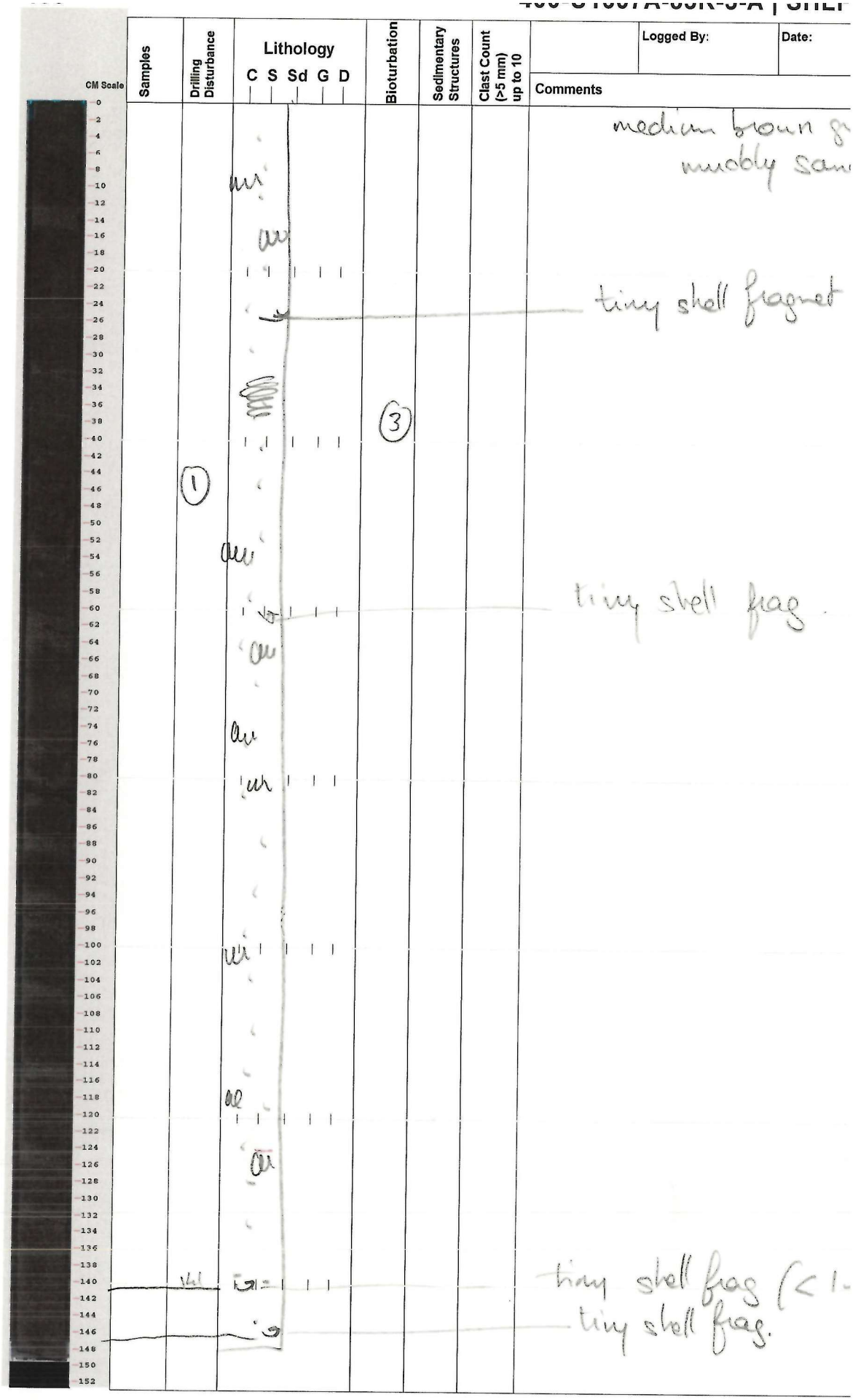
shell frag (tiny <1

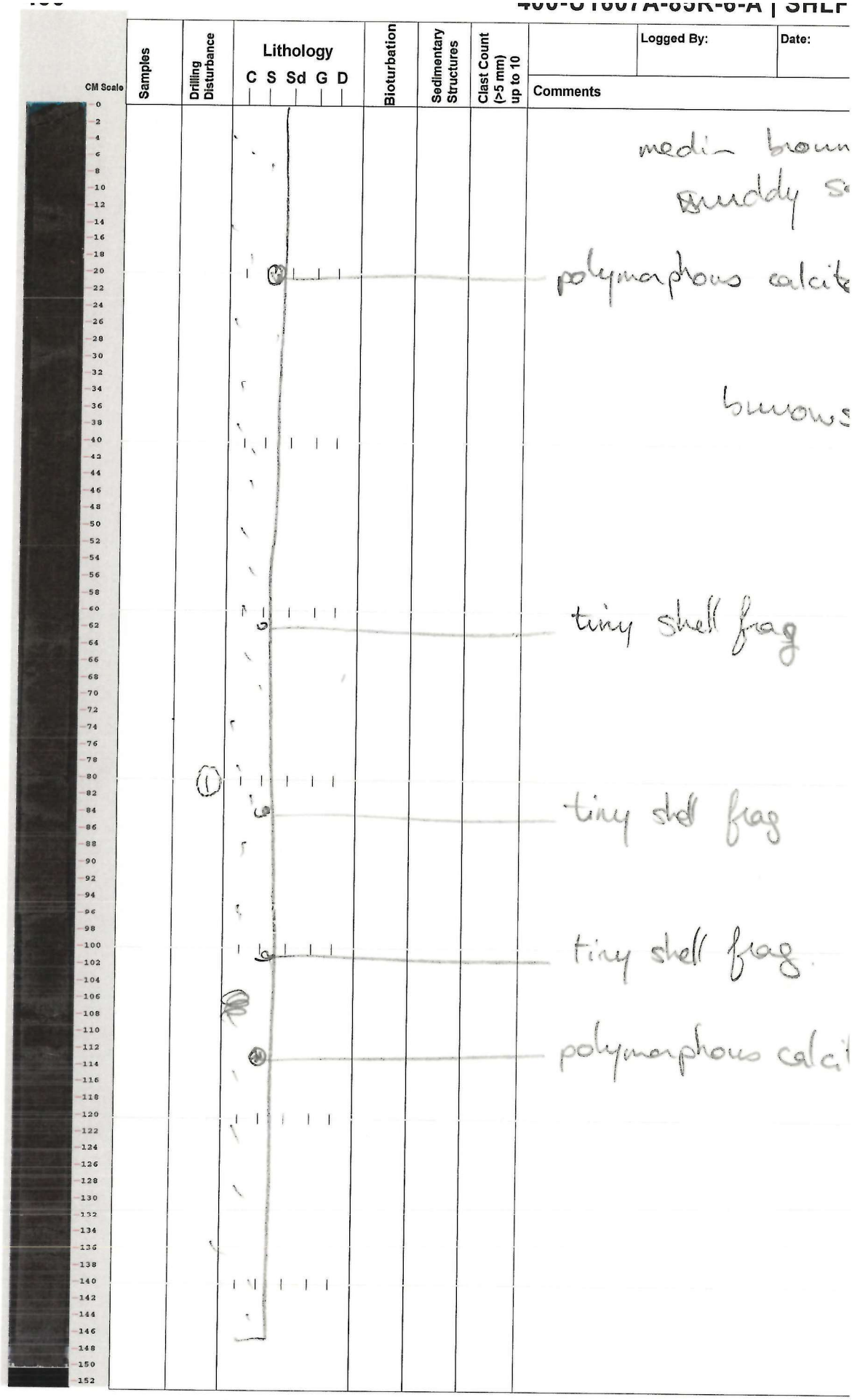
1

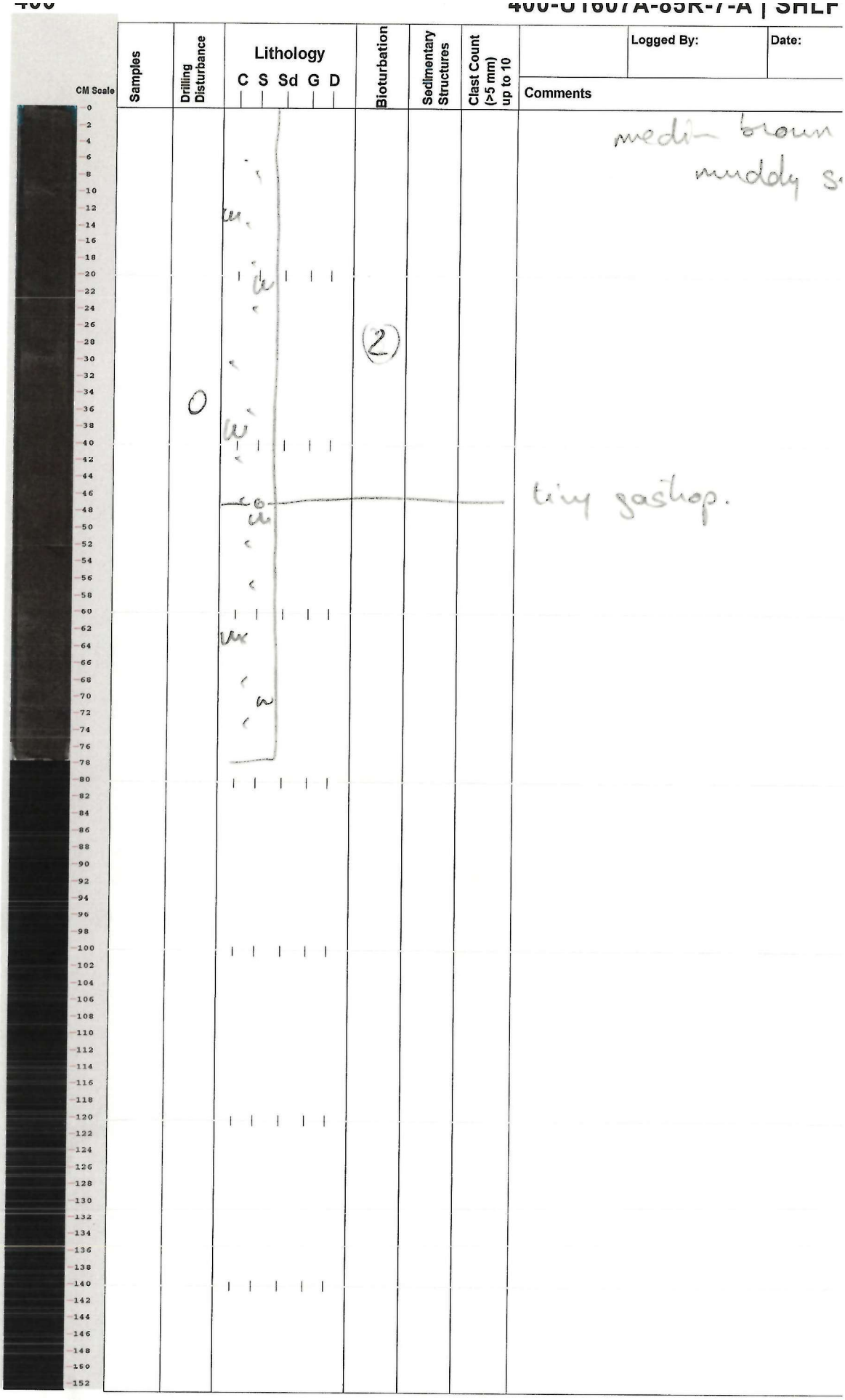
shell frag (<1-n


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Date:
Comments
muddy sand
shell frag-rich
medium brown
tiny shell frag
tiny shell frag (<1-


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Date:
Comments
1
3
shell fragment tiny (
IW


Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Date:
Comments
CM Scale
medium brown g
muddy san
tiny shell fragmet
tiny shell frag.
tiny shell frag (< 1.
tiny shell frag.
3
1


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Date:
Comments
medi- brown
Muddy s
polymorphous calcit
burrows
tiny shell frag
tiny shell frag
tiny shell frag
polymorphous calci

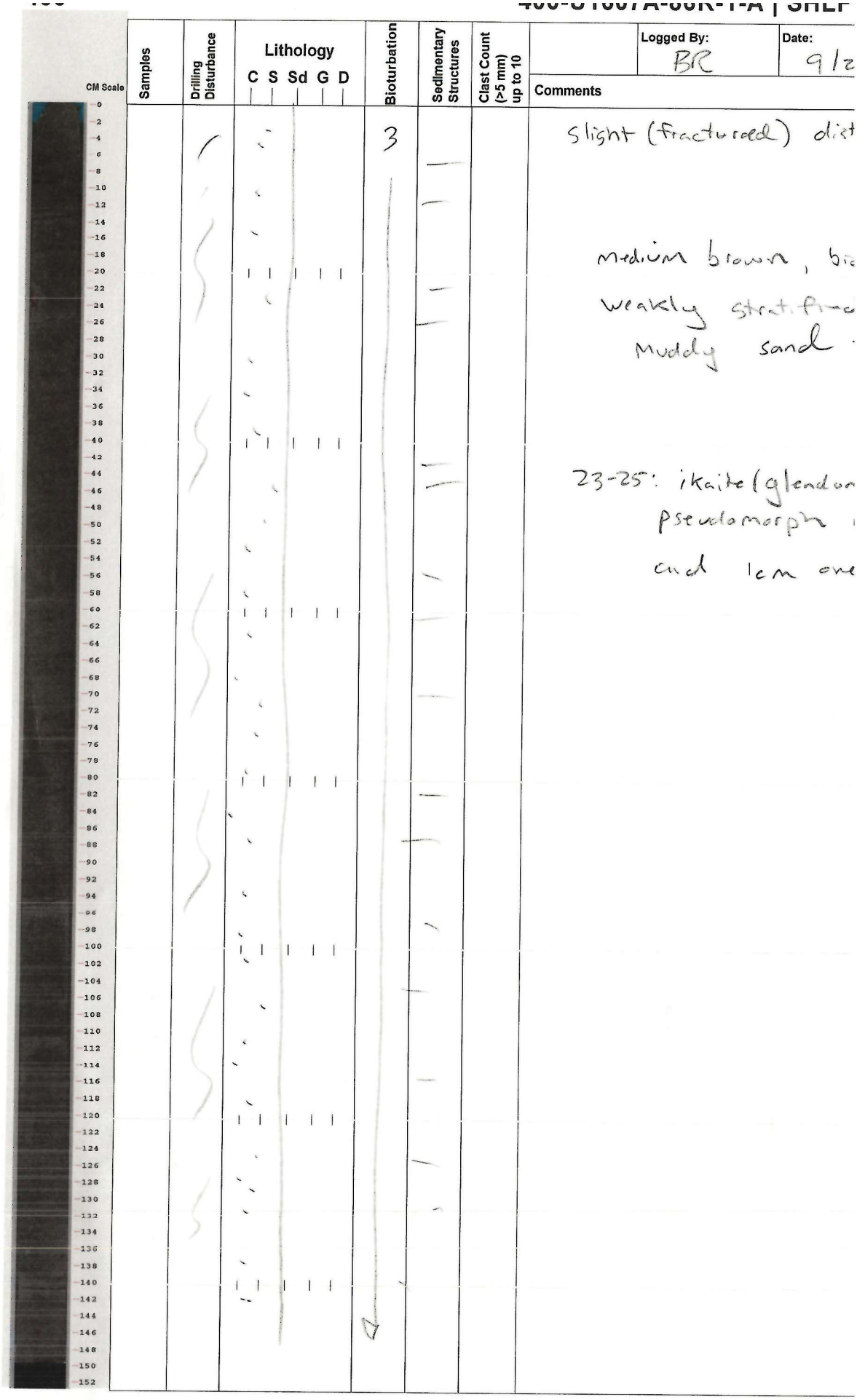

CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Date:
Comments
medi- brown
muddy s
0
(2)
tiny gastrop.

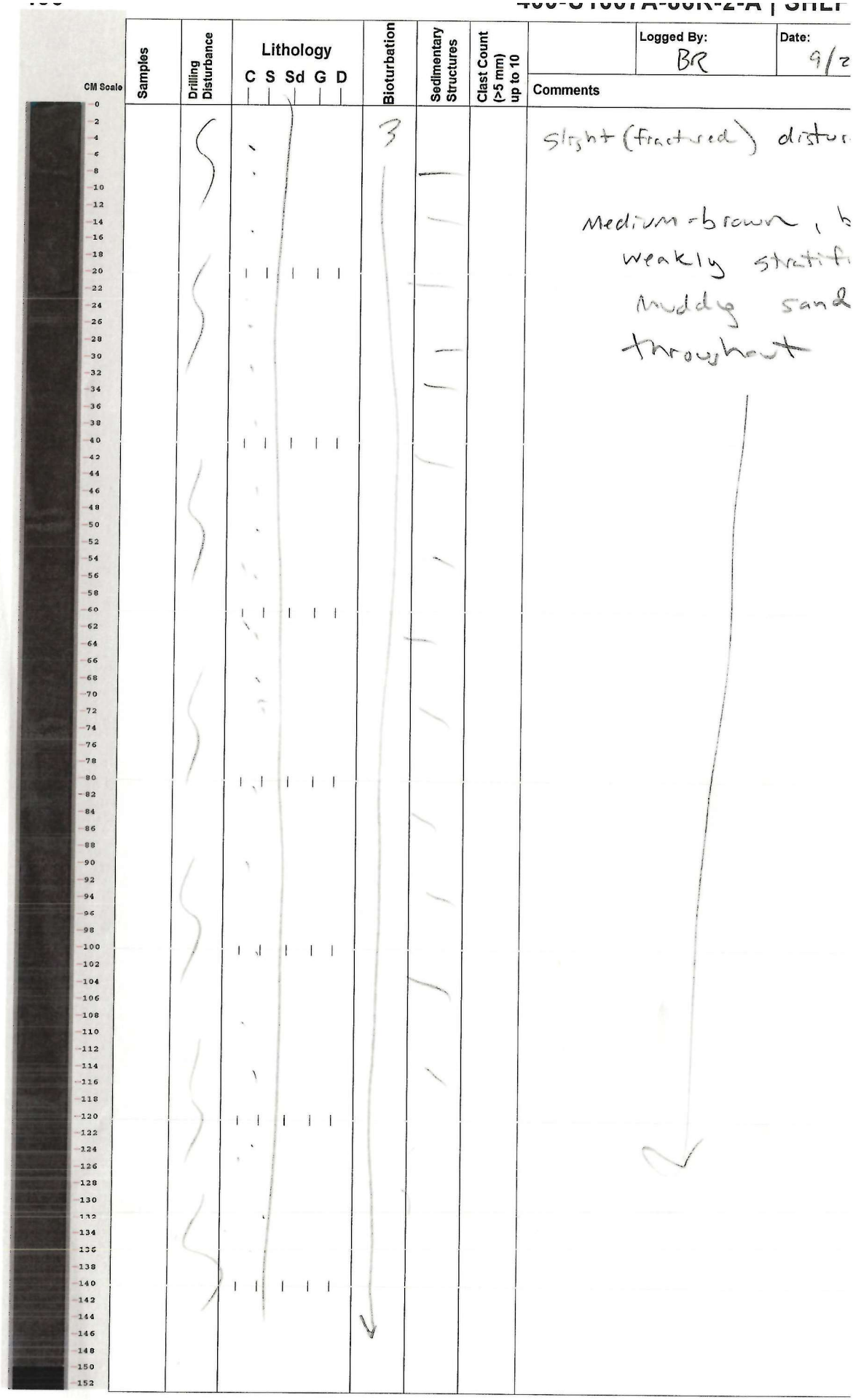
Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments	Logged By:	Date:
	(1)		(2)			medi- bro- 8 muddy s-d.		

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


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
BR
Date:
9/2
Comments
3
Slight (fractured) dist
medium brown, bi
weakly strat. fine
Muddy sand
23-25: ikaite (glendon
pseudomorph
and 1cm one

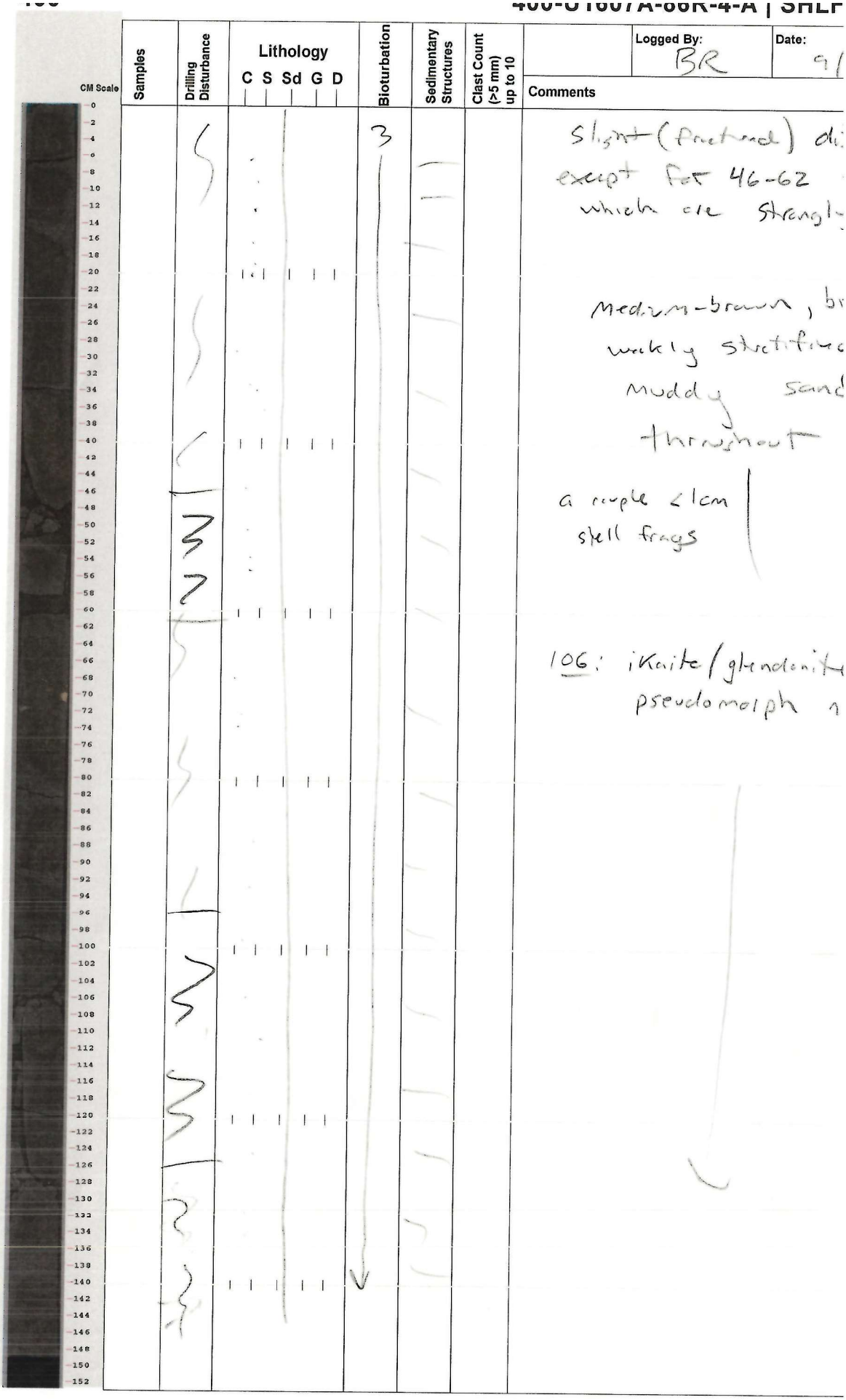

CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
BR
Date:
9/2
Comments
Slight (fractured) distur
Medium-brown, b
weakly stratif
muddy sand
throughout
3

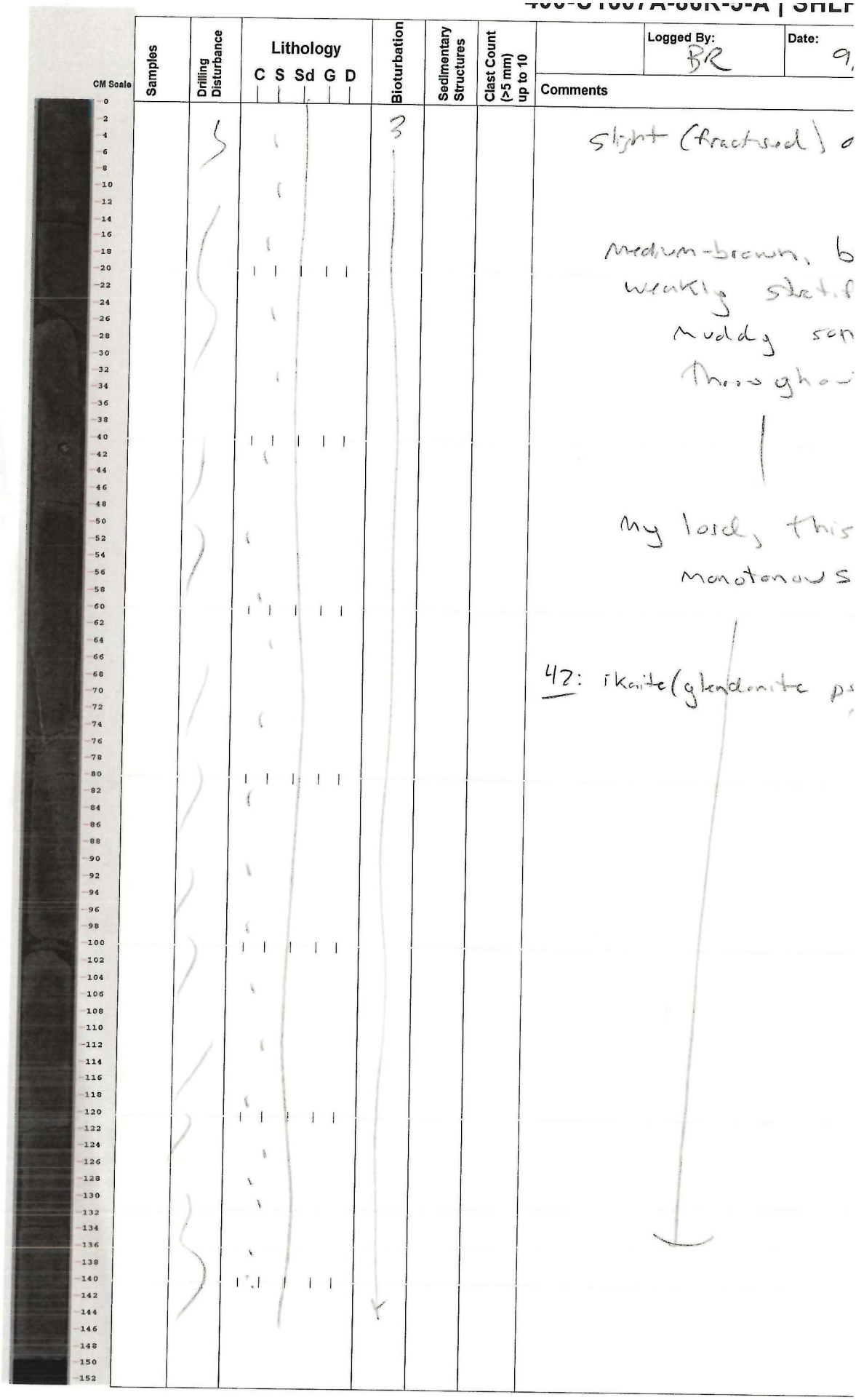
Logged By: BR

Date: 91

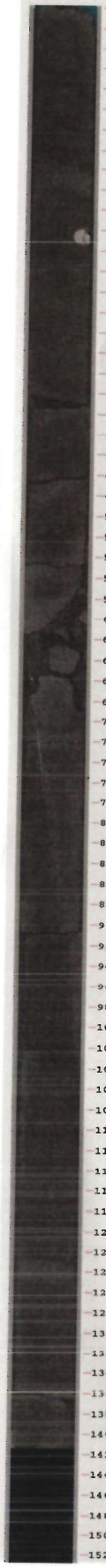
CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20				3			Slight (fractured)
20–40							Medium-brown, weakly strati muddy sa throughout
60–80							97: calcite nodule
100–120							
140–152							



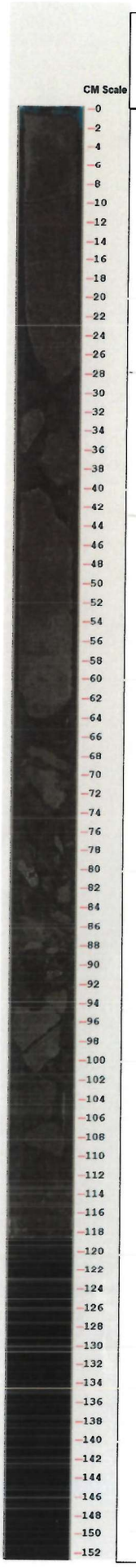

CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
BR
Date:
Comments
Slight (fractured) di
except for 46-62
which are Strongly
Medium-brown, br
weakly stratified
muddy sand
throughout
a couple <1cm
shell frags
106: ikaite/glendonite
pseudomorph


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
BR
Date:
Comments
slight (fractured) o
Medium-brown, b
weakly slat.f
muddy sap
throughou
My lord, this
monotonous
42: ikaite (glendonite ps

Logged By:	Date:
BR	91



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152				3			Slight (fractured) d except 56-72 brecciated
							Medium-brown, b weakly strat muddy s throughout
							23: Calcite nod



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0							
2							
4				2			0 – base: as prev.
6							
8							
10							
12							
14							
16							
18							- some serious
20							disturbance
22							
24							
26							
28							
30							
32							
34		4					
36							
38							
40							
42							
44							
46							
48							
50							
52							
54							
56							
58							
60							
62							
64		4					
66							
68							
70							
72							
74							
76							
78							
80							
82							
84							
86							
88							
90							
92							
94							
96							
98							
100							
102							
104							
106							
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112							
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120							
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124							
126							
128							
130							
132							
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136							
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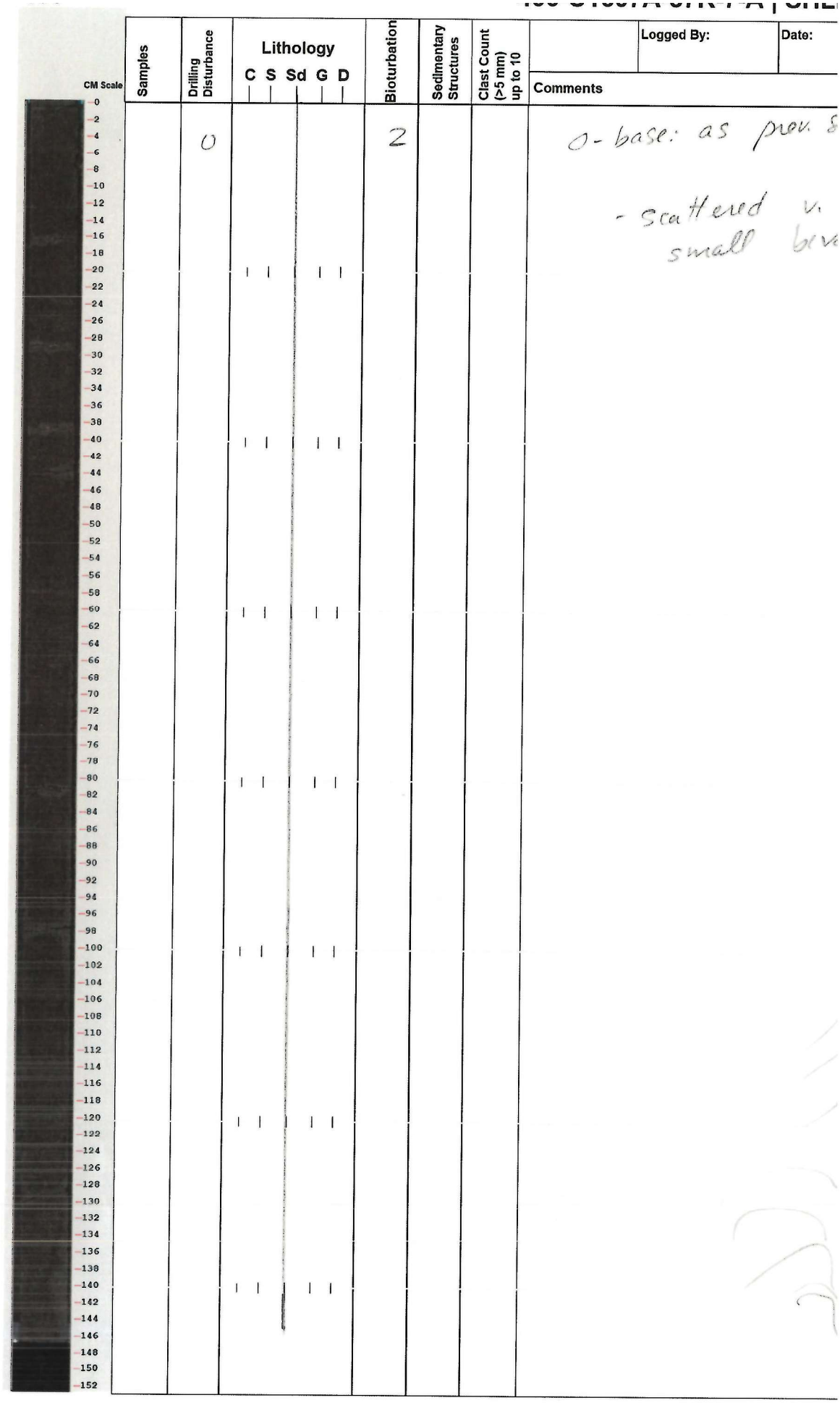
140							
142							
144							
146							
148							
150							
152							

Logged By:

Date:


CM Scale
0
2
4
6
8
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14
16
18
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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
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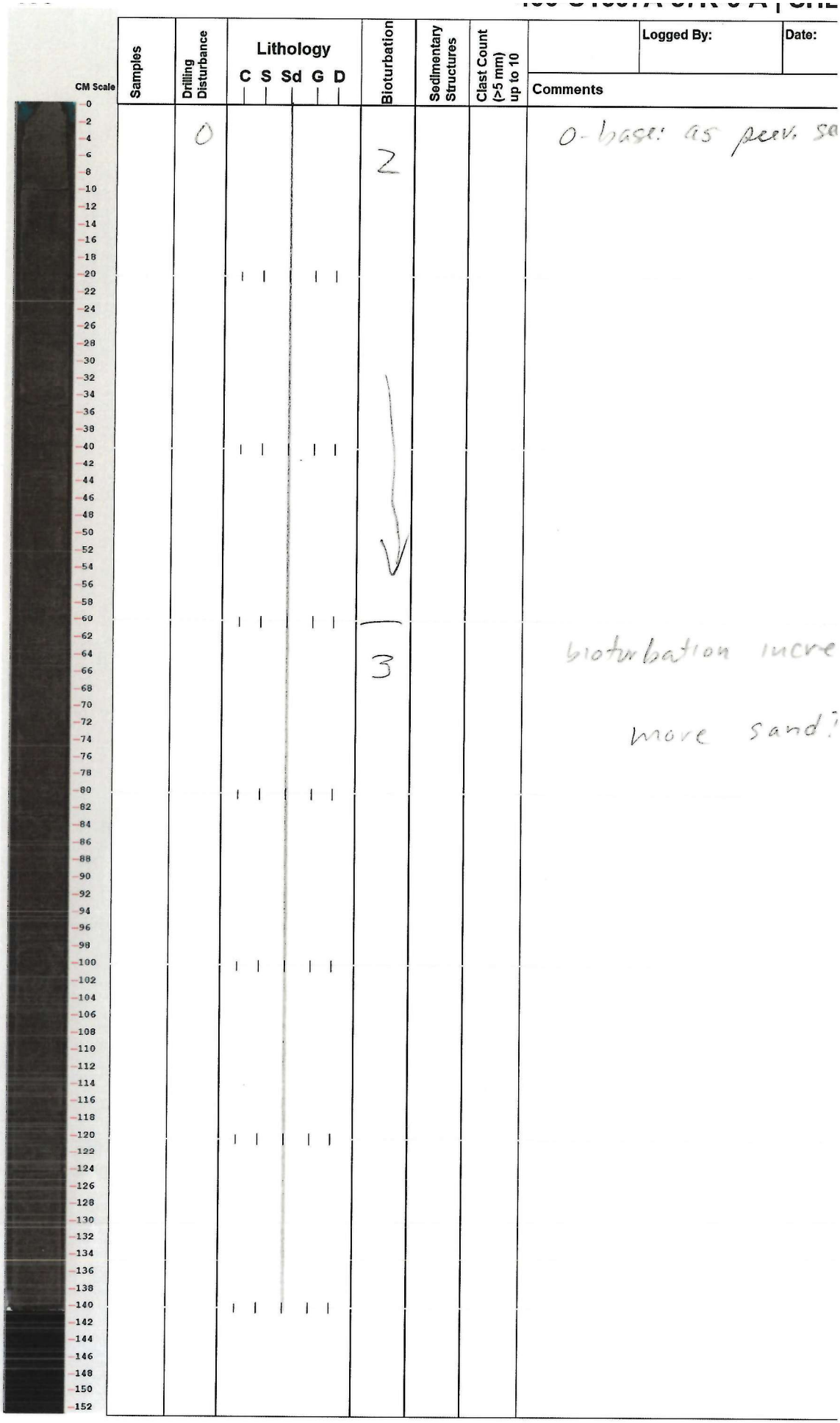
112
114
116
118
120
122
124
126
128
130
132
134
136
138
140
142
144
146
148
150
152
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Date:
Comments
0
2
0 - base: as prev. s
- scattered v. small bra


CM Scale
0
2
4
6
8
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12
14
16
18
20
22
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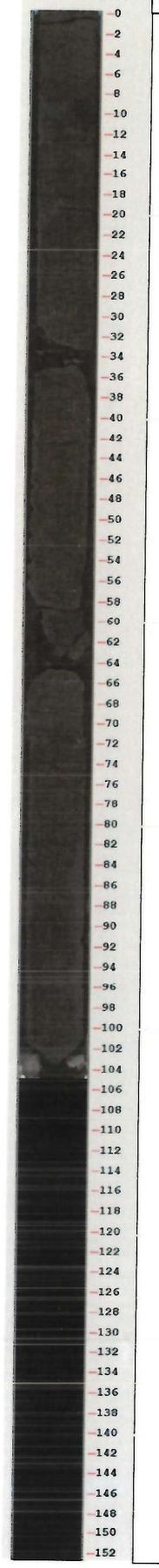
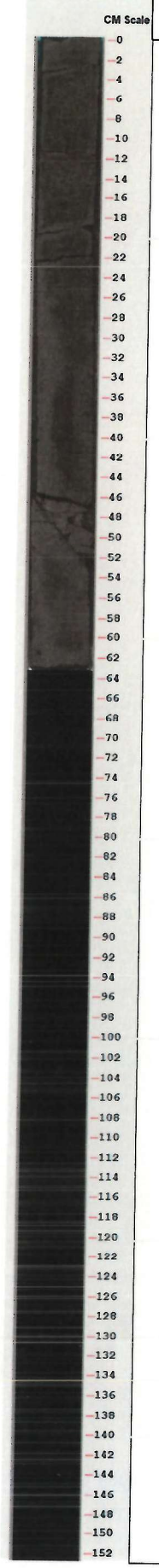
26
28
30
32
34
36
38
40
42
44
46
48
50
52
54
56
58
60
62
64
66
68
70
72
74
76
78
80
82
84
86
88
90
92
94
96
98
100
102
104
106
108
110
112
114
116
118
120
122
124
126
128
130
132
134
136
138
140
142
144
146
148
150
152
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Date:
Comments
0
2
3
0 - base as prev. sa
bioturbation incre
more sand?



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

0 - based as previous section

- Rare fossil (forams)



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
	0			2		Comments: 0-base: as prev.	
	1						
	2						
	0						



CM Scale	Samples	Drilling Disturbance	Lithology C	S	Sd	G	D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0											
2											
4								2			0- base: as pre
6											
8		2									
10		f									
12		r									
14		a									
16		c									
18											
20											
22											
24											
26											
28											
30											
32		0									
34											
36											
38											
40											
42											
44											
46											
48											
50											
52											
54											
56											77-81: ikaite ps
58											
60											
62											
64											
66											
68											
70											86-94: escape b
72											
74											
76											
78											
80											
82											
84											
86											
88											
90											
92											
94											
96											
98											
100											
102											
104											
106											
108											
110											
112											
114											117: ikaite psendom
116											
118											
120											
122											
124											
126											
128											
130											
132											
134											
136											
138											
140											
142											
144											
146											
148											
150											
152											

Logged By:

Date:



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0							
2				2			0-base: as prev.
4							
6							
8							
10							
12							
14							-ikaite pseudon
16		2					at 20, 24,
18							
20		frac					
22							
24							
26							
28							
30							
32							
34							
36							
38							
40							
42							
44							
46							
48							
50							
52							
54							
56							
58							
60		0					
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		2					
120							
122							
124		crack					
126							
128							
130							
132							
134							
136							
138							
140							
142							
144							
146							
148							
150							
152							

Logged By:

Date:

Logged By:	Date:
TF	91



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0							
2							
4		0		2			0-base: med brow
6							muddy sa
8							
10		C					
12		V					
14							
16		a					
18							- some concentrati
20		ck					clean sand in
22							
24							
26							
28							
30							- weakly strat
32							
34							
36							
38							
40							
42							
44							
46							
48							
50							
52							
54							
56							
58							
60							
62							
64							
66							
68							
70							
72							
74							
76							
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130							
132							
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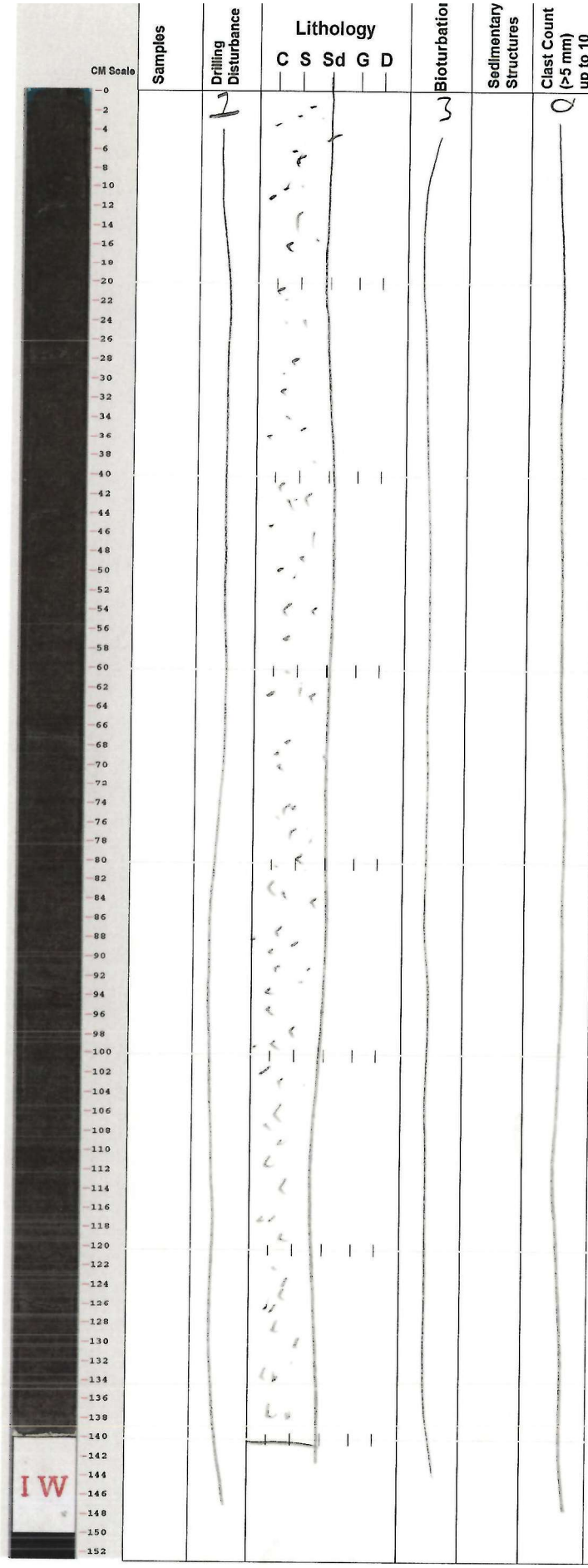
136							
138							
140							
142							
144							
146							
148							
150							
152							

Logged By:	Date:
Et	9



Comments

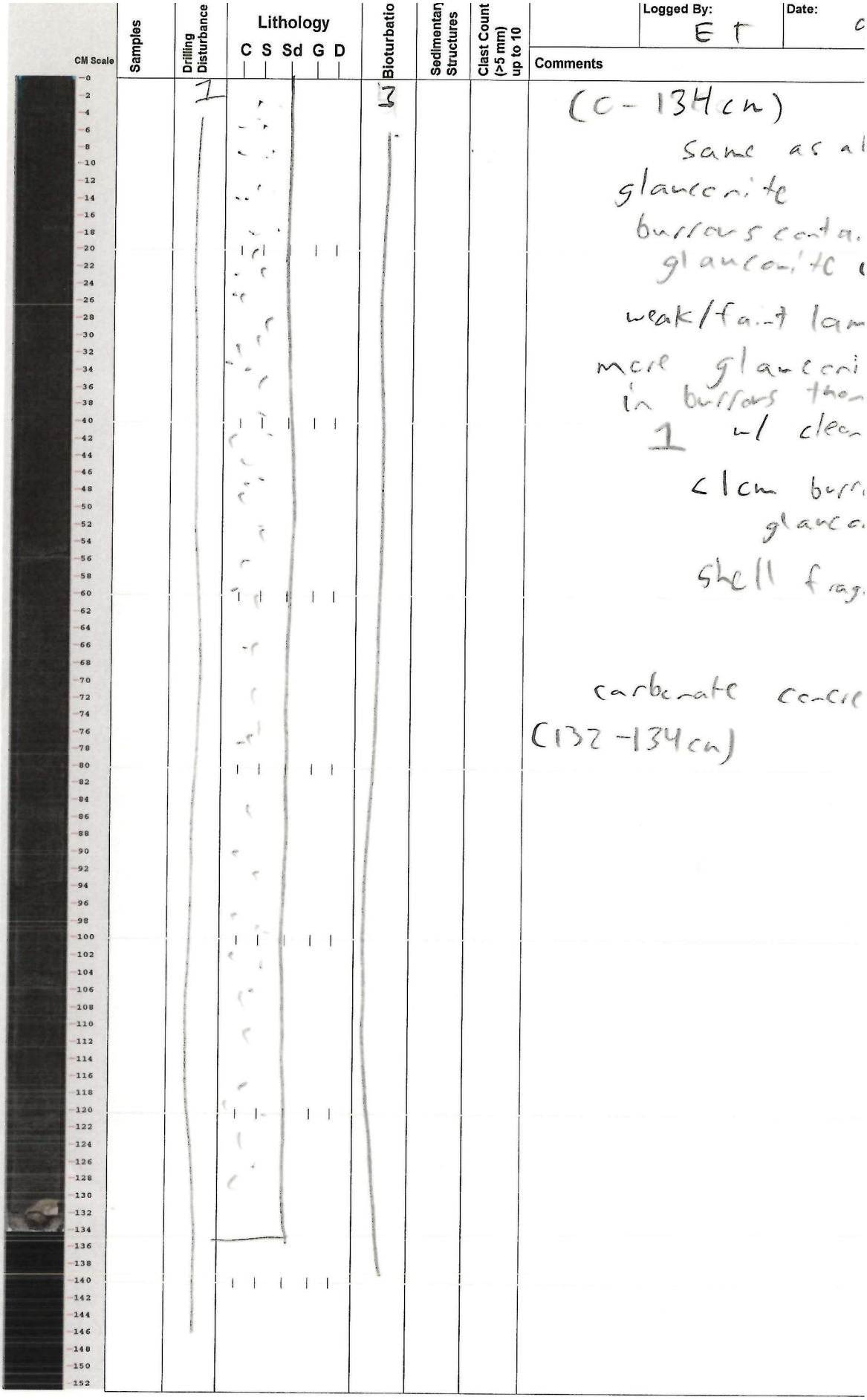
(0-150cm)

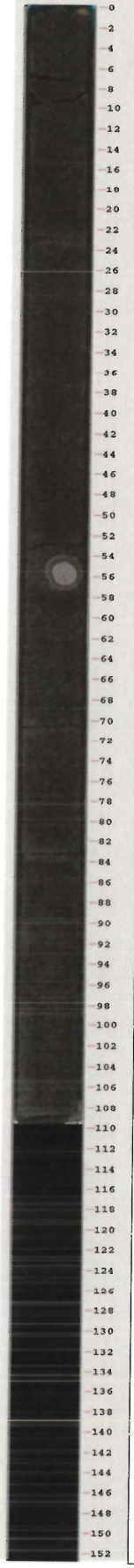
medium greyish muddy sand

burrows with c[illegible] glauconite present

macrofossils - shell fragm[illegible]

<5mm burrow in[illegible]


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbatio
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
E T
Date:
Comments
(C-134cm)
Same as a
glauconite
burrows conta
glauconitic
weak/faint lam
more glauconi
in burrows than
1 w/ clea
<1cm burr
glauco
shell frag
carbonate concr
(132-134cm)



Samples | Drilling Disturbance | Lithology (C S Sd G D) | Bioturbation | Sedimentary Structures | Clast Count (>5 mm) up to 10

Logged By: ET

Date: 9

Comments

2

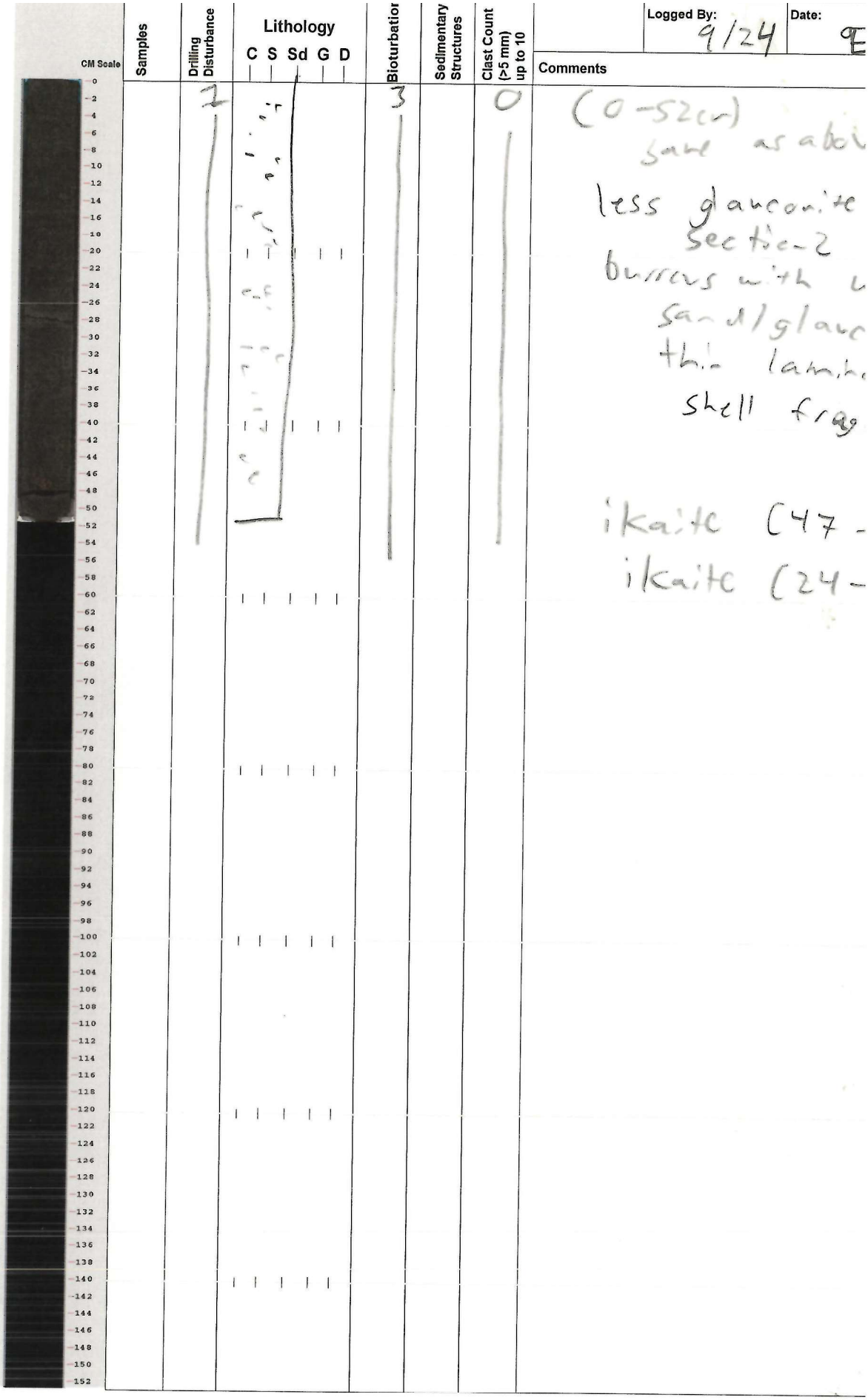
3

0

(0-110 cm)
same as a
w/ glauco
clasts and
with glauc
clean sand
shell fragme

(55-58 cm)
carbonate
concretio

(0-6

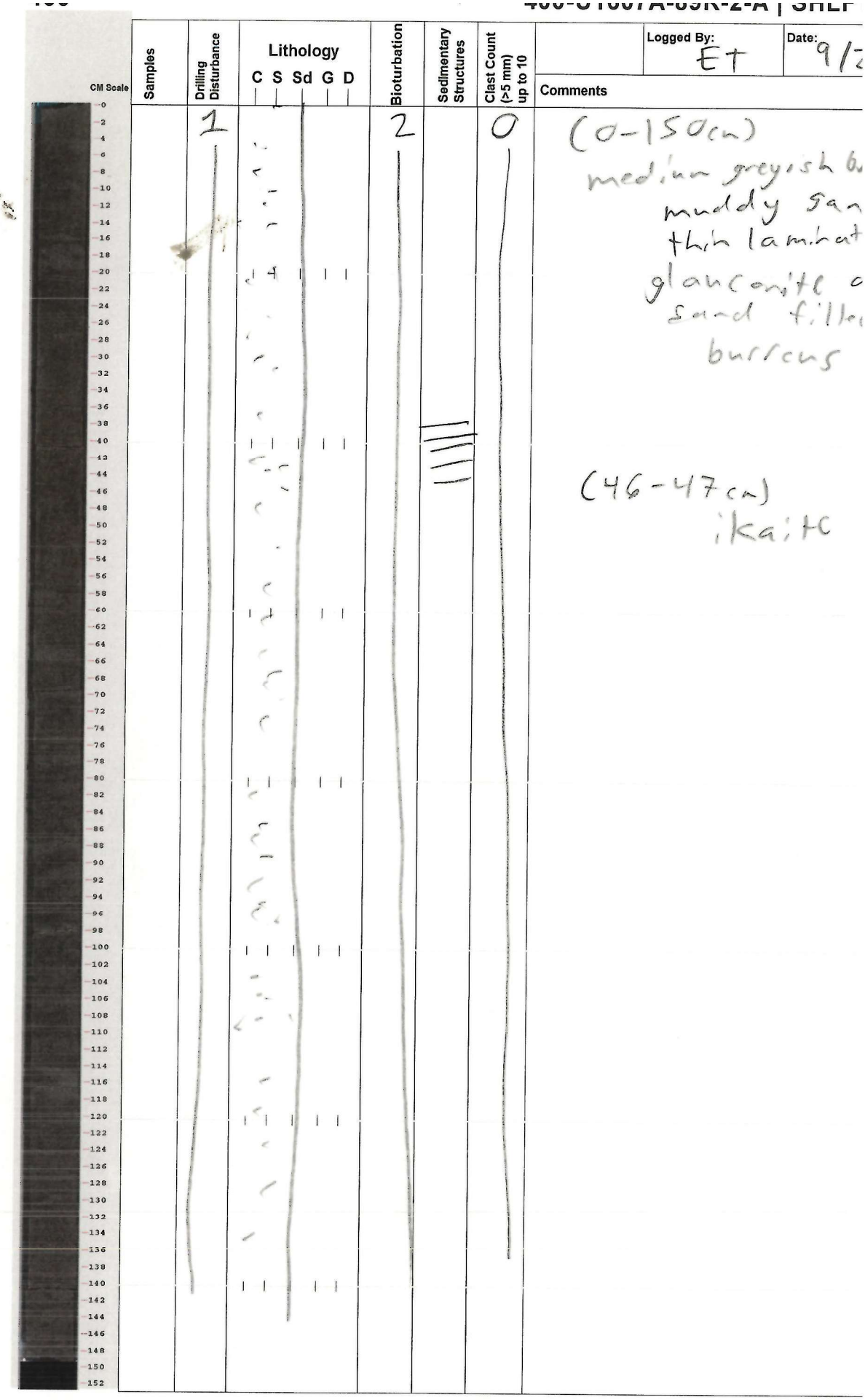

CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
9/24
Date:
Comments
7
3
0
(0-52cm)
same as abo
less glauconite
Section 2
burrows with
sand/glau
thin lami
shell frag
ikaite (47-
ikaite (24-



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152		1		2		0	(0–90cm) muddy sand medium greyish br thin laminatio visible clea burrows filled with sand glauconite some maro
		3		0			(90–95cm) sand with light greyish b
		1		2			(95cm–151cm) muddy sand medium greyish br thin laminati burrows w/ and white macrofossils

Logged By: Et

Date: 9


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Et
Date:
9/
Comments
1
2
0
(0-150cm)
medium greyish
muddy san
thin laminat
glauconite
sand fill
burrows
(46-47cm)
ikaite

Logged By: Et

Date: (9,

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0		1		2		0	(0-150 cm) same as al
2							
4							
6							
8							
10							
12							
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							(16-17 cm) ikaite
36							
38							
40							
42							
44							
46							
48							
50							
52							
54							
56							
58							
60							
62							
64							
66							
68							
70							
72							
74							
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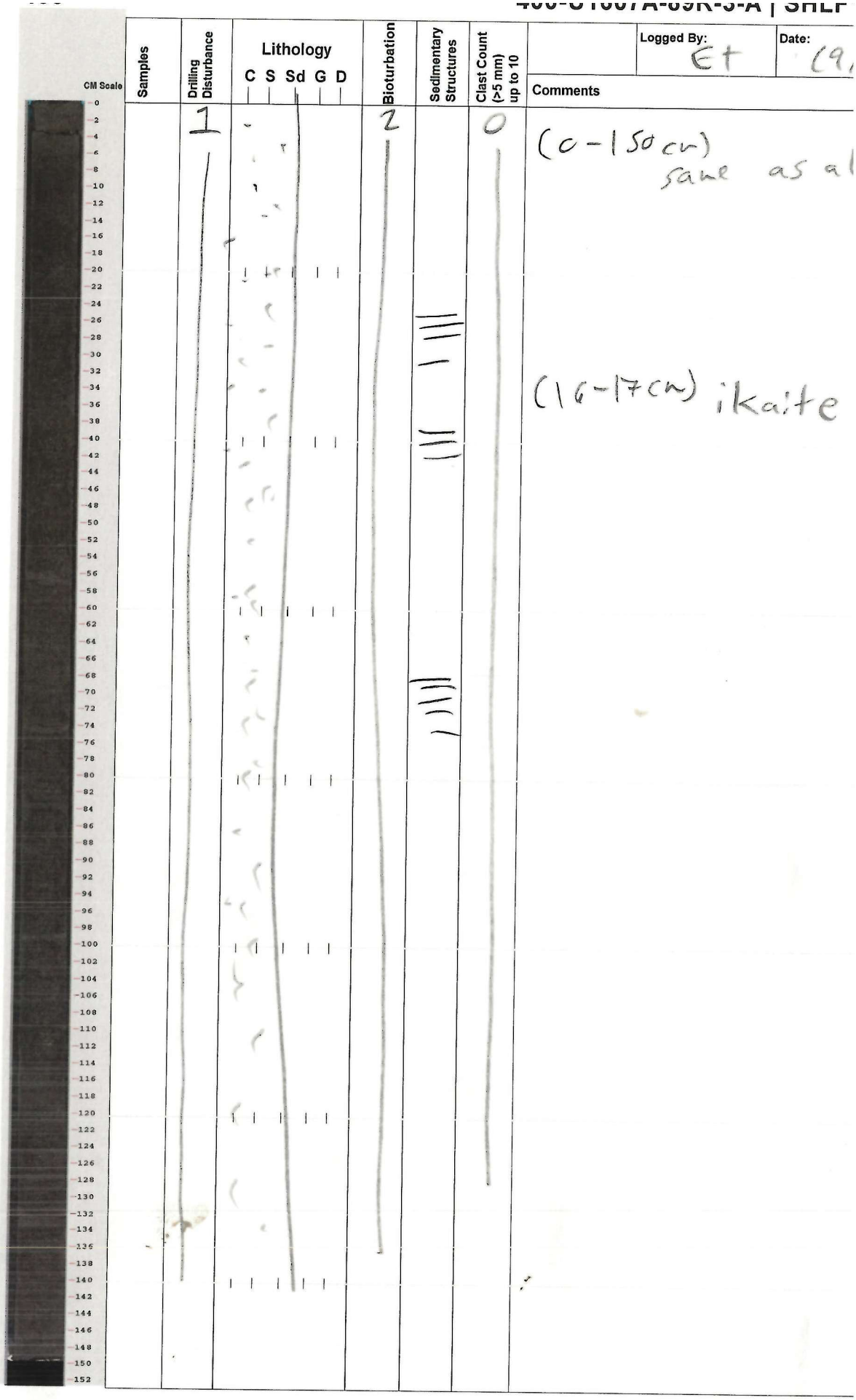
148							
150							
152							



Logged By: ET

Date: 9/



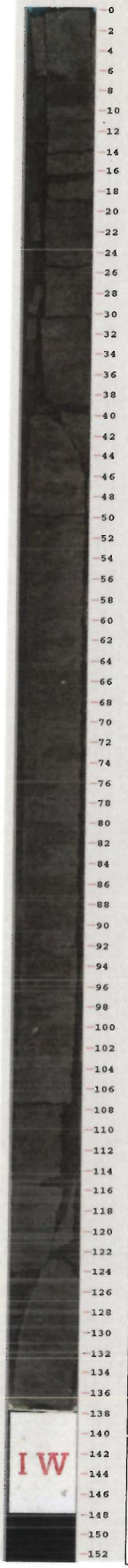
CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–28		1		2		0	(0–19cm) same as abov 1.5cm diamet in-situ glauc macrofossils sharp contact
28–58		3		1			
58–152		1		2			(19–28cm) dark g sandy mud small macro shells glacuonite
58–152		2					(28–45cm dark mud with sa glacuonite
58–152							(45cm–152cm) da sandy mud macrofossil shell frag small pyrite fille burrows

Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
	1		2		0	(0-10cm) same as abo
						(10-30cm) muddy sa medium br
						(30-86cm) sandy mu macrofossil shell frag dark grey.s
						(86-138cm) muddy sand medium gr glacuonite b macrofossil shell

Logged By: ET

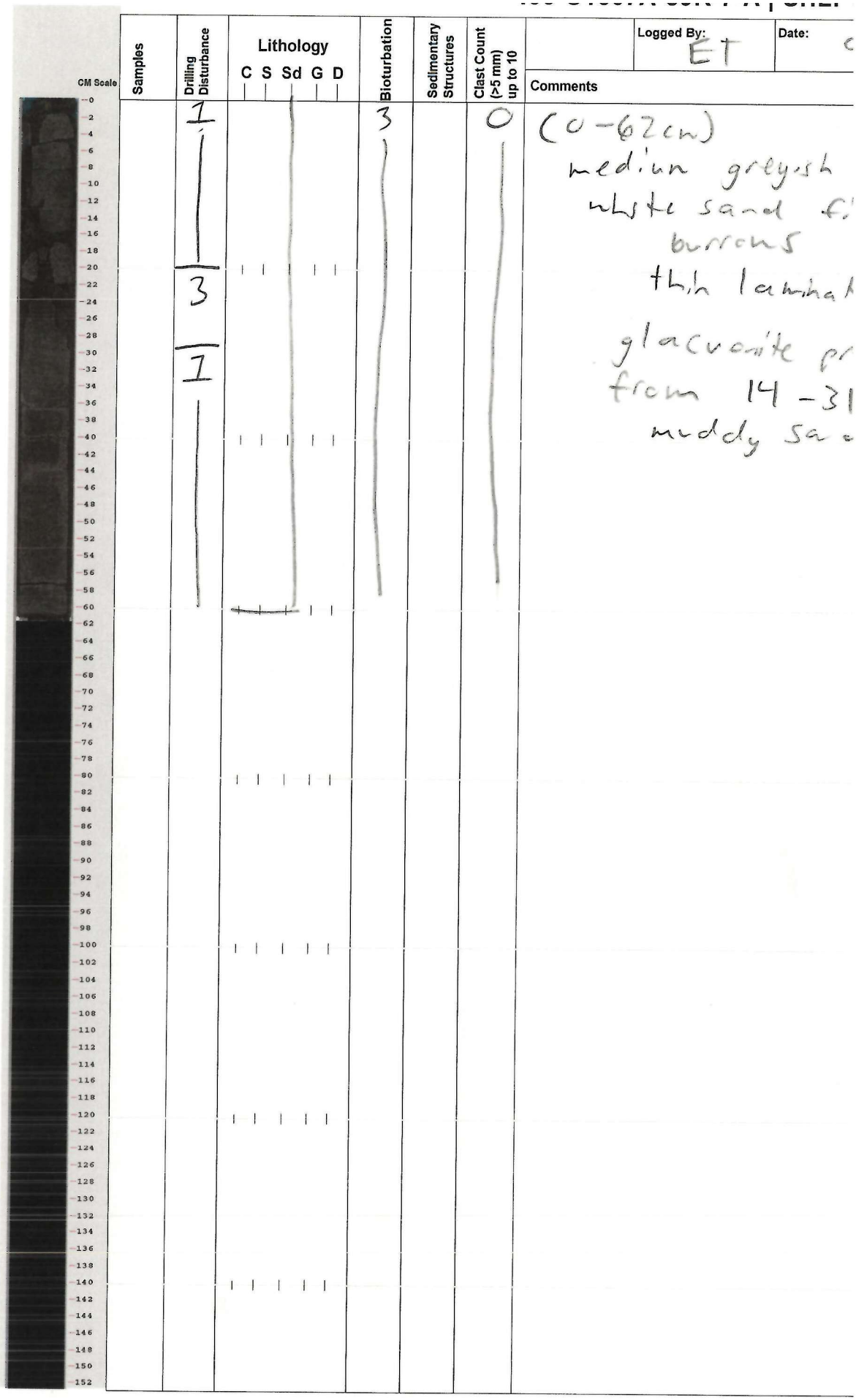
Date: 9

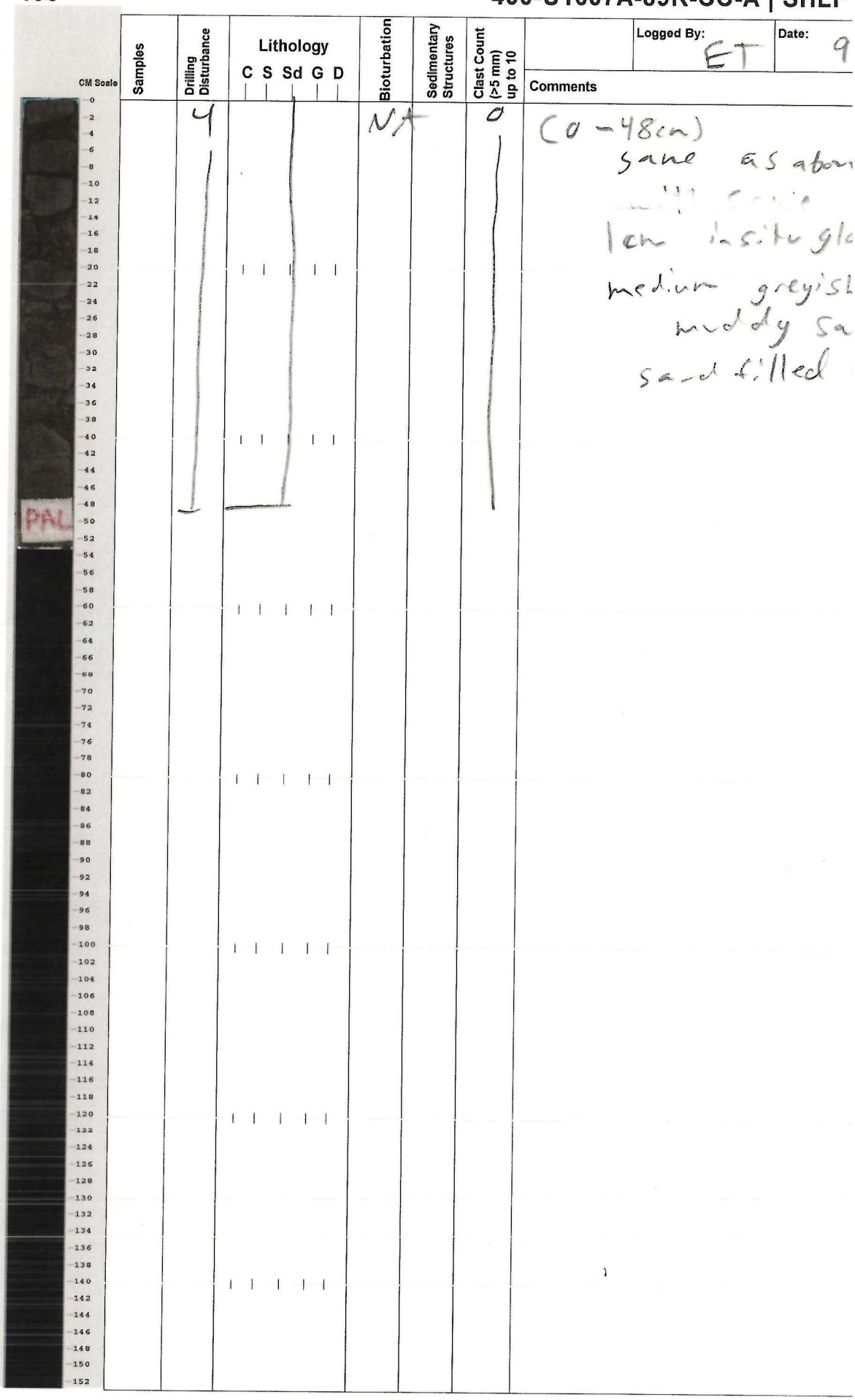
CM Scale

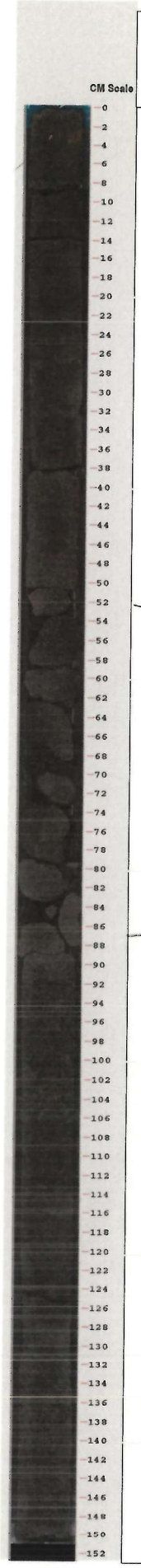


CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
		1		3		0	(0 – 150cm) medium grayis muddy sand glacuonite th in situ a burrows fille in thin lamnati grains with intervals less glauc
							113cm – shell
							119 – 128cm, 19 – 28cm, 98 – 111cm, 55 – 85cm } glau ric




CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
ET
Date:
Comments
1
3
1
3
0
(0-62cm)
medium greyish
white sand f
burrows
thin laminat
glaciomarine pr
from 14-31
muddy sa


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
ET
Date:
9
Comments
4
NA
0
(0-48cm)
same as abov
1cm in-situ gl
medium grey/sl
muddy sa
sand filled
PAL

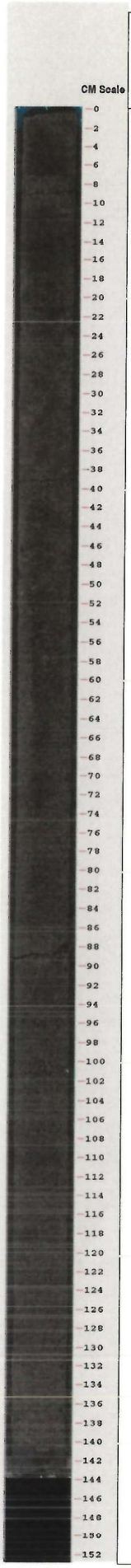


Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: TF	Date: 9
						Comments	
	0		1		0	0-90: Dark brown mu vf sand faint laminations	
						0-4cm: Karte pse	
3							
						90-116: muddy sand w/ abu clasts; m - green brow	
						clasts look like reworked mp-ups - granule-sized black + gree also brown = subangu	
C							
						116-130; muddy sand w/ com clasts	
						130-138: sand w/ ab. c as 90-116	

Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
	0		1			0 – 9cm: sand w/ ab. c
						~1mm
						9– 64: sand w/ common
						– clast poor inter
						show lam - st
						65-base: sand w/ abund
						– a few mud
						– stratified
						– a few long burrows

Logged By: Date:





Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			1 / 0				
			1				
			0				

Comments

0 – 4: sand w/ ab. c

4 – 12: sand

12-54: sand w/ ab c
- stratification

54-141: Sandy congl. (
grade clasts w/
- sand is cleaner
fine grade.

shapes of grains
make them lo
like reworked
clasts.

141-base: pure glauconitic
sand (compressed



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			0				

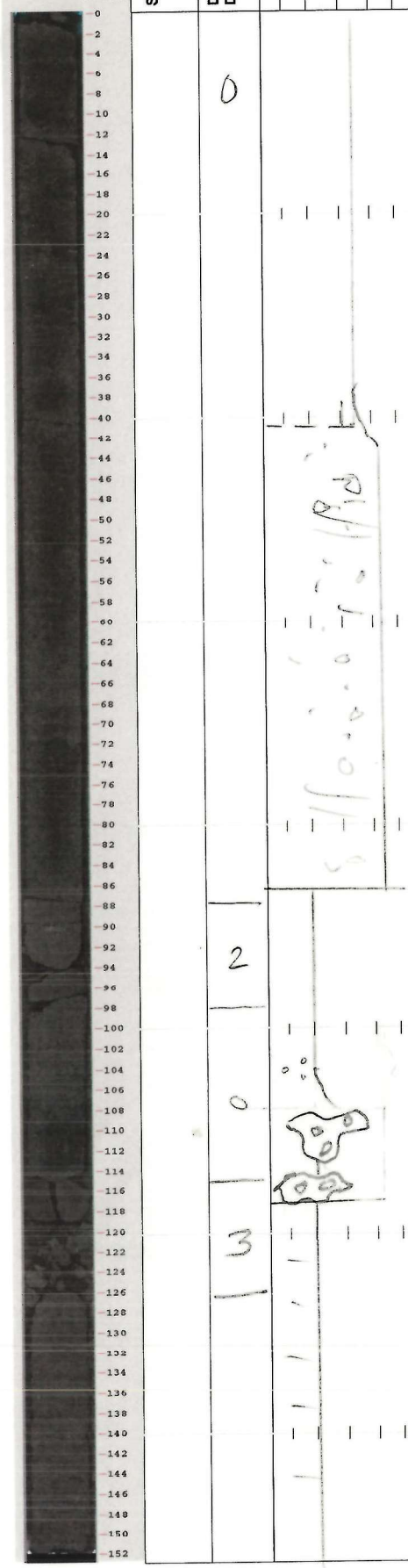
Comments

0-118: sandy glaucon conglom.
very stratified

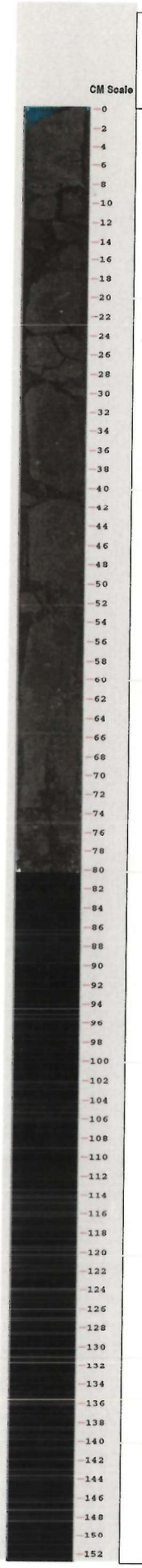
black, green, dk br
tan "rip ups"

118-121: glauc sand (comp

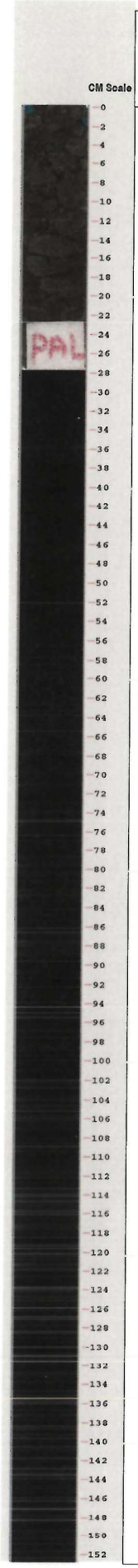
121-base: sandy glauc. co



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
	0					0-41: Sand w/ abandan clasts
						41-86; Sandy conglomer rounded granul of IRF(?) whi
						From here, glauc fines up ward S. 1
	2		0			86-108: dk brown mu -a few sprinkles of glauconite
	0					108-116: irreg blobs, sandy congl
	3		1			116-base, dk brown mud small burrows fill w/ tan mud thinly bedded
						Burrows filled w/ vf pyrite



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
	3		1			Comments: DK brown mud, in the base of the prev. sectio	
	2						
	4						



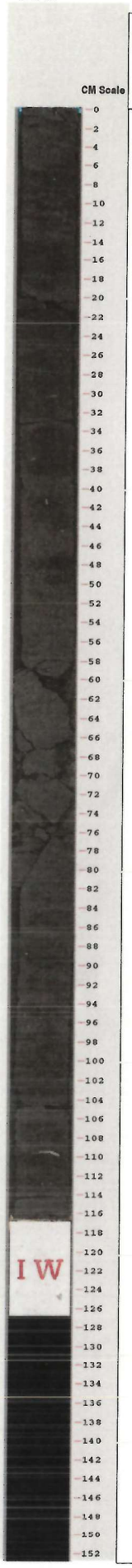
Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
	4					Comments: Dark brown mud as in S. 6/ highly disturbed by drilling	

Logged By: GG

Date: 24 S



CM Scale	Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20		X	Sandia?	2	U	X	G-base Dk brow Mud No discernable no strat ↳ Shale textur Pyratised burrows.
20–60		X					
60–80				2	U		76-80 Large pseud ikaite
80–120					U		
120–140		Σ					

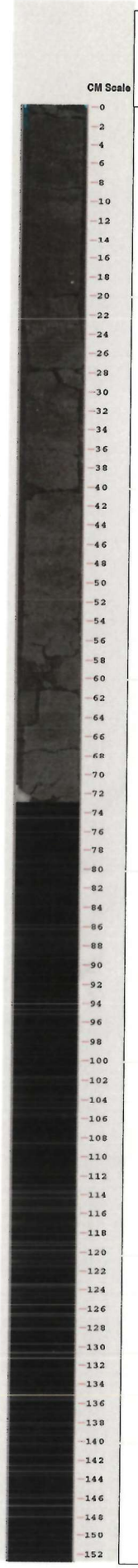


Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: GG	Date: 24
						Comments	

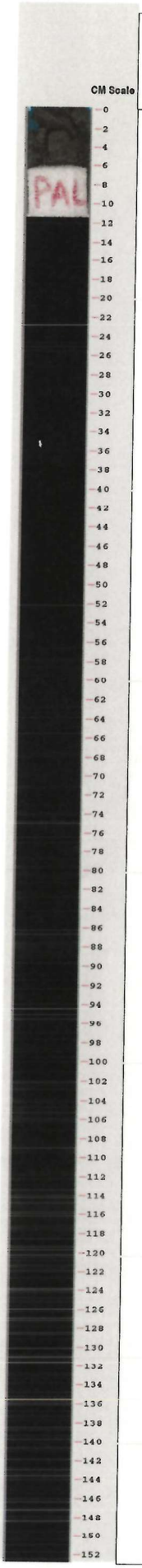
0 - base Dk grey
Dk brown
Mud

Pyrtzd burrows

Shell frags → bv
disc
Pycat



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: CA	Date: 24
	S		V	X	X	Comments: Dk grey Mud; Rptd Burrows	
	S						



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: CG	Date: 2
			2	v		Comments: ~~DR~~ Mud, Mod

400-U1607A-93R-1-A | SHLF

Logged By: GA

Date: 24



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–152	SS	3		V	X	X	0-4 CaCO3 Mud'L grey. burrows
							4-base Dk brown Pyratise.
							LC: grad Scm
							86-104 Light grey calcarea
							LC: grad Scm

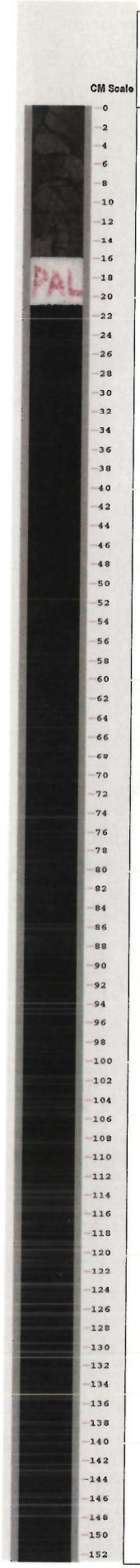
400-U1607A-93R-2-A | SHLF

Logged By: GG

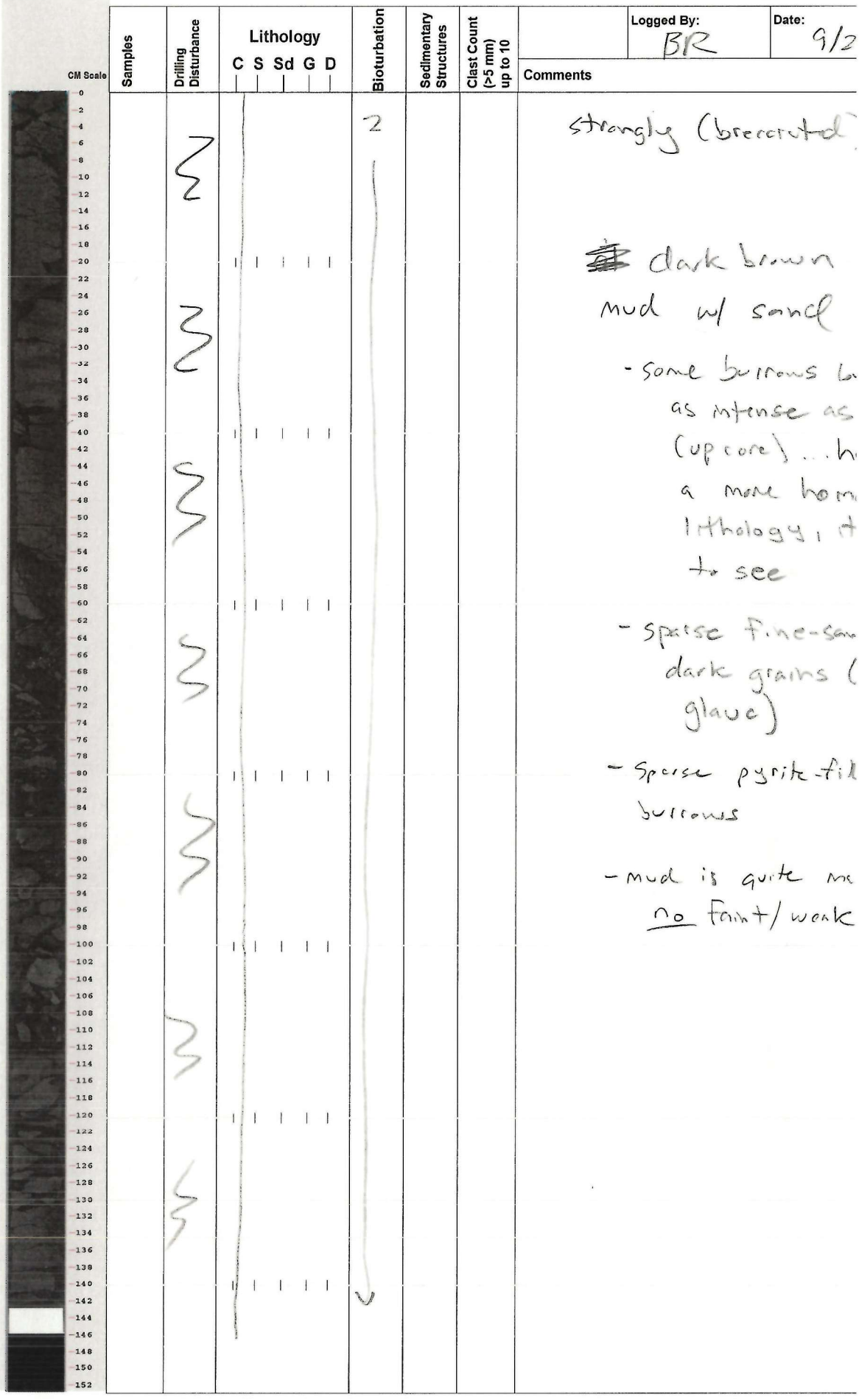
Date: 2

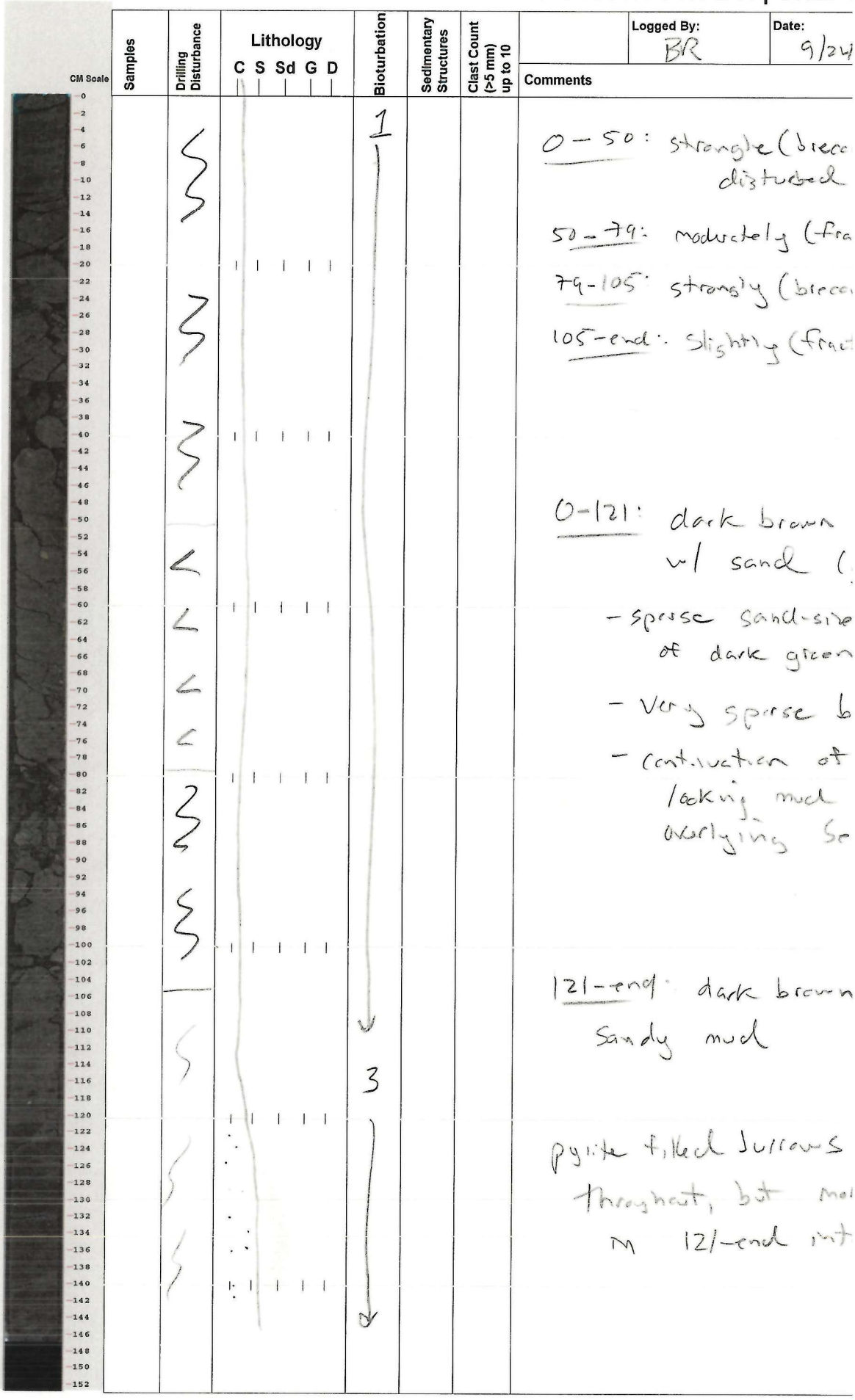


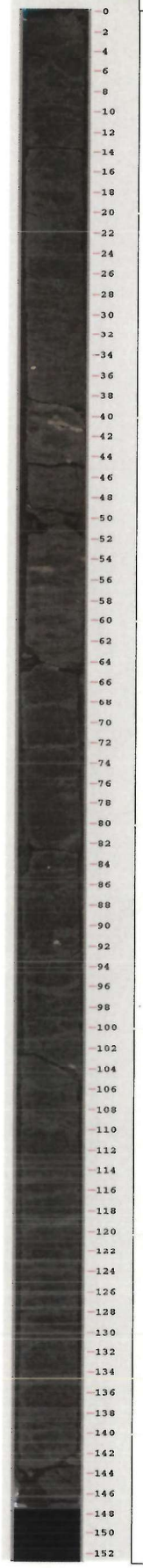
CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0–20		S		2	X	X	Dk brown Mud Pyted burrow
20–40							
40–42	SS						
42–60		3					
60–80							
80–100							
100–120							
120–140							
140–152							



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: GC	Date: 24
						Comments	
	Y		X ?	X	X	0 - base MJ DK	


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By: BR
Date: 9/2
Comments
2
strongly (brecciated)
dark brown
mud w/ sand
- some burrows
as intense as
(up core) ... h
a more hom
lithology, t
to see
- sparse fine-san
dark grains (
glauc)
- sparse pyrite-fil
burrows
- mud is quite m
no faint/ weak


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By: BR
Date: 9/24
Comments
1
3
0–50: strongly (brecc
disturbed
50–79: moderately (fra
79–105: strongly (brecc
105–end: slightly (frac
0–121: dark brown
w/ sand (
- sparse sand-size
of dark green
- very sparse b
- contortion of
laking mud
overlying Se
121–end: dark brown
sandy mud
pyrite filled burrows
throughout, but mo
in 121–end int



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: BR	Date: 9/24

Comments

0-40: slight (frac ind)

40-64: moderate (fractu

64-end: slight (fracture

0-10: dark brown sandy mud

10-65: dark brown w/ sand

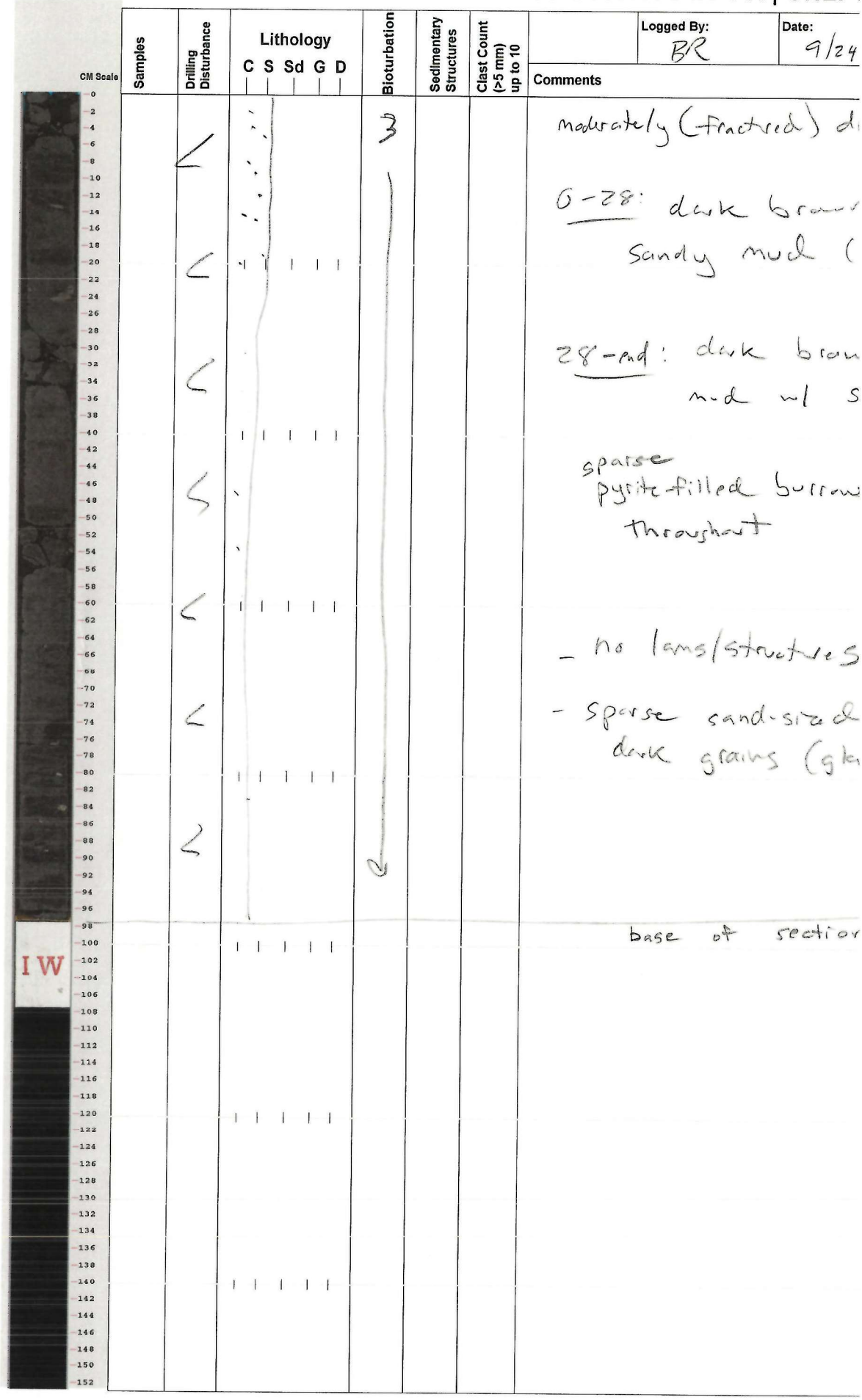
65-130: dark brown mud

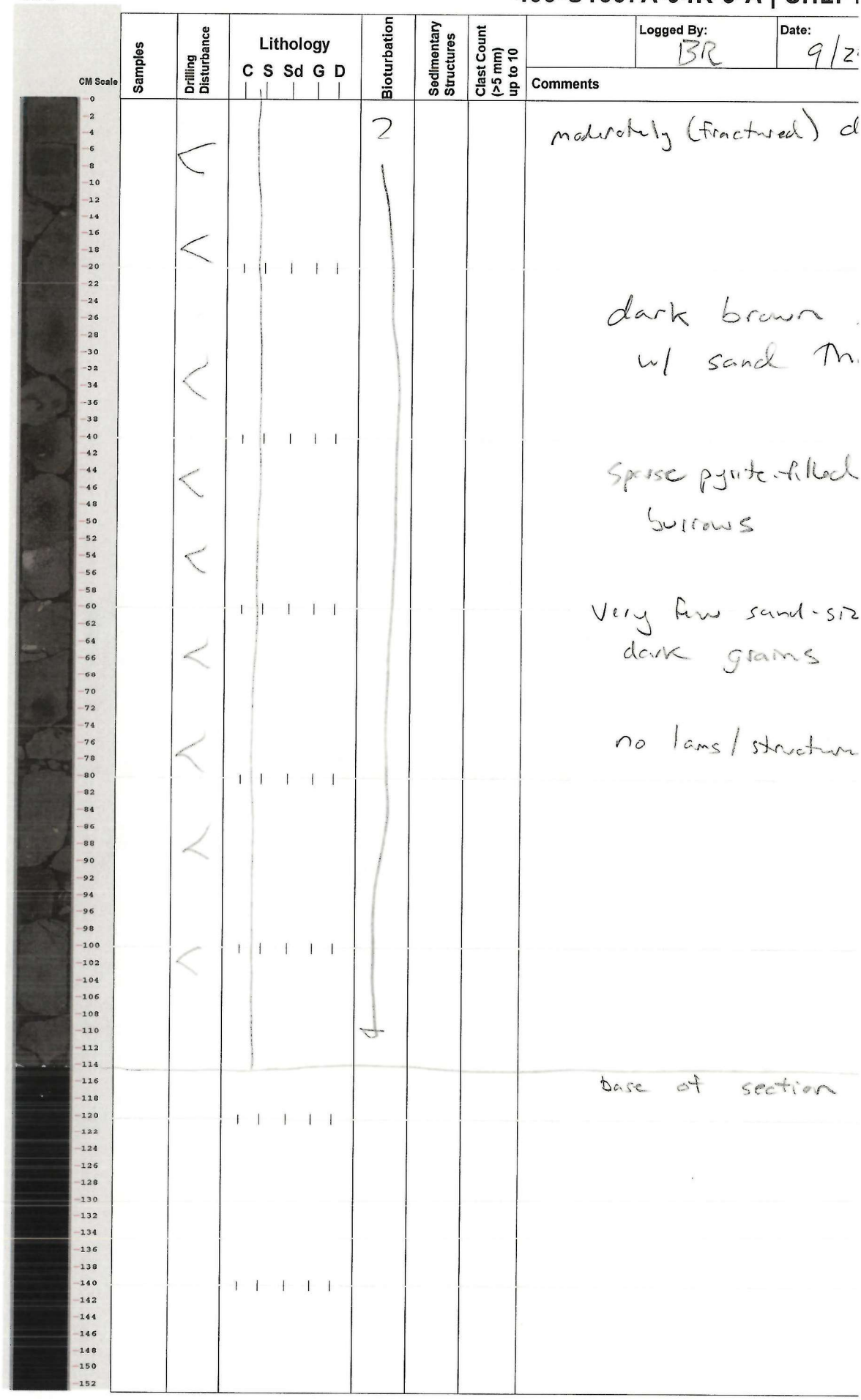
130-144: dark brow muddy sand

144-end: dark brown mud

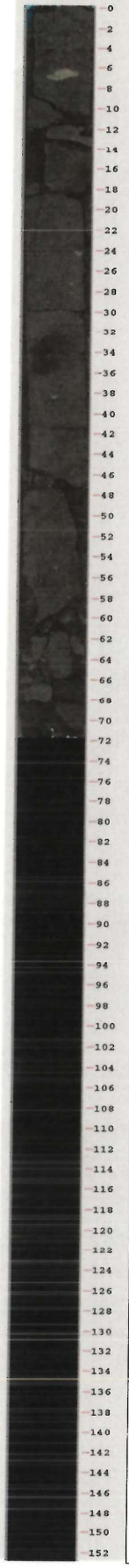
all lowr contac are gradational few to several

no lams/structures


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
BR
Date:
9/24
Comments
moderately (fractured) d
0-28: dark brow
sandy muck (
28-end: dark brow
m.d w/ s
sparse pyrite-filled burrow throughout
- no lams/structures
- sparse sand-sized dark grains (gl
base of sectio
IW


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
BR
Date:
9/2
Comments
moderately (fractured) d
dark brown
w/ sand
Sparse pyrite-filled
burrows
Very few sand-siz
dark grains
no lams / structure
base of section

400-U1607A-94R-6-A | SHLF



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: BR	Date: 9/
						Comments	

Moderately (fractured)

dark brown

w/ sand

sparse pyrite-f

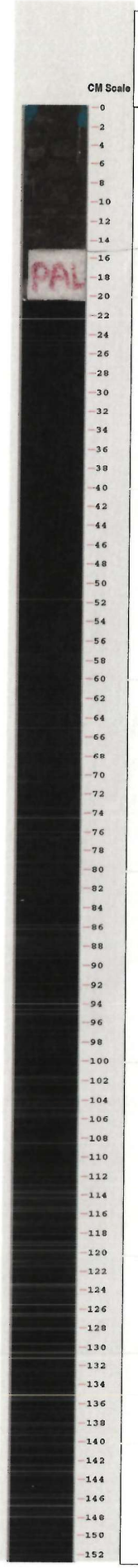
burrows,

one 4-cm wid

at 7 cm

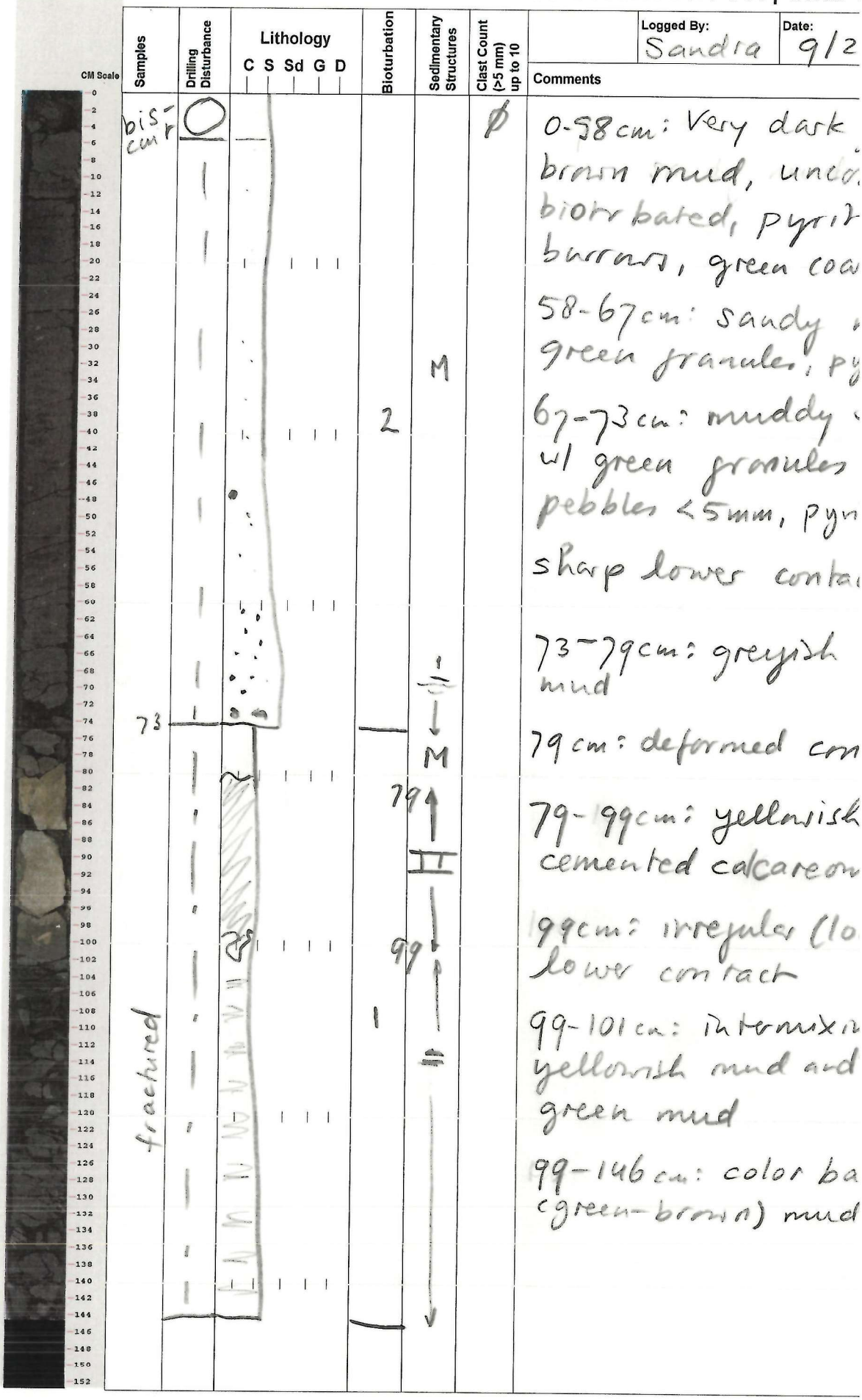
no lams/structures

base of section



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: BR	Date: 9/24
						Comments: strongly brecciated continuation of overlying Section M all characters base of CC	

Logged By: Sandra | Date: 9/2



Comments

0-58cm: Very dark brown mud, unco. bioturbated, pyrit burrows, green coa

58-67cm: sandy green granules, py

67-73cm: muddy w/ green granules pebbles <5mm, pyr

sharp lower conta

73-79cm: greyish mud

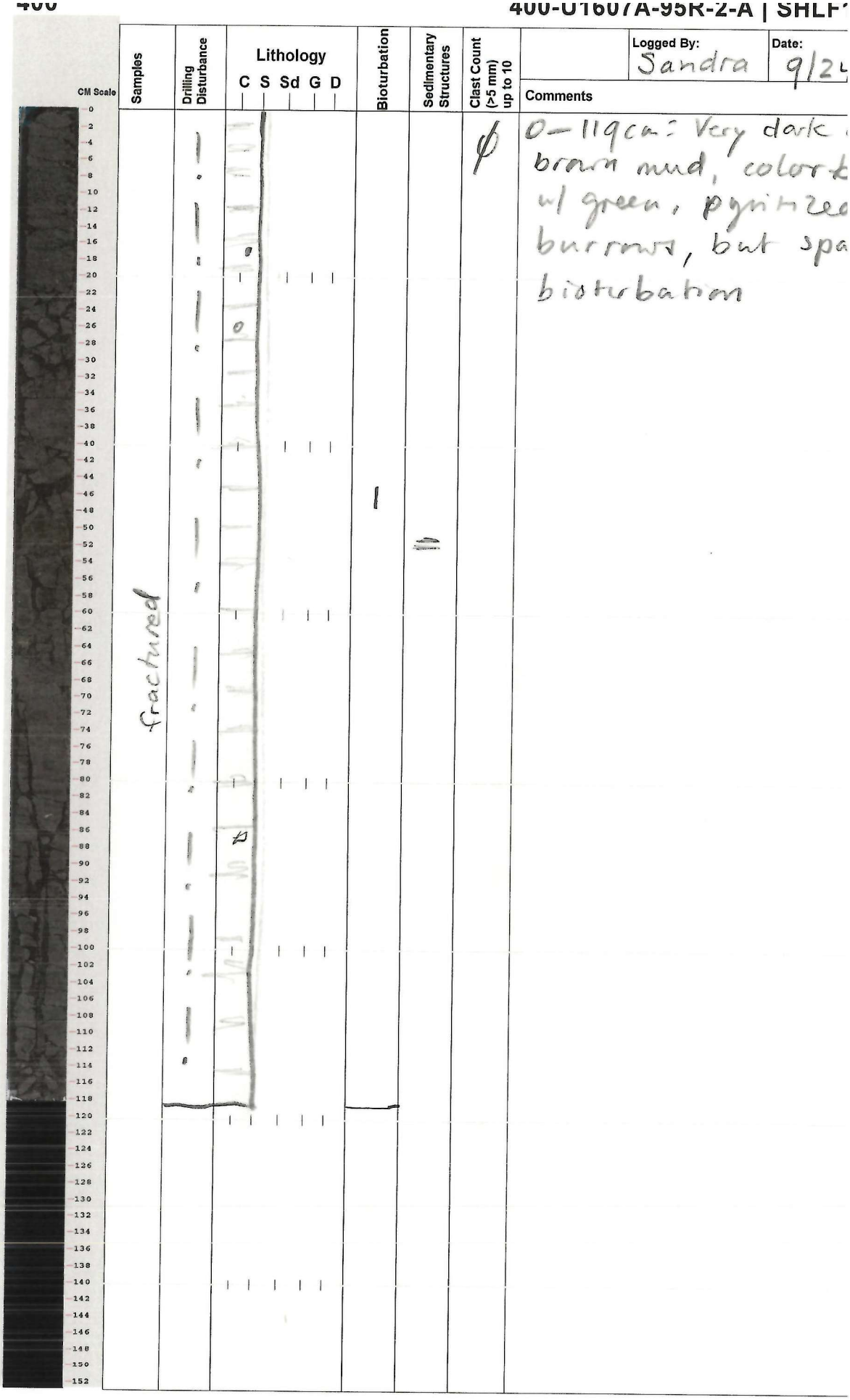
79cm: deformed con

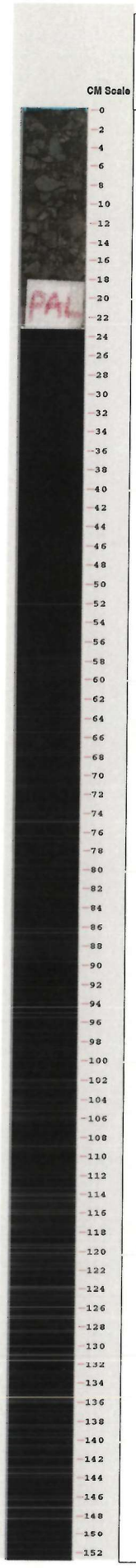
79-99cm: yellowish cemented calcareou

99cm: irregular (lo lower contact

99-101cm: intermixin yellowish mud and green mud

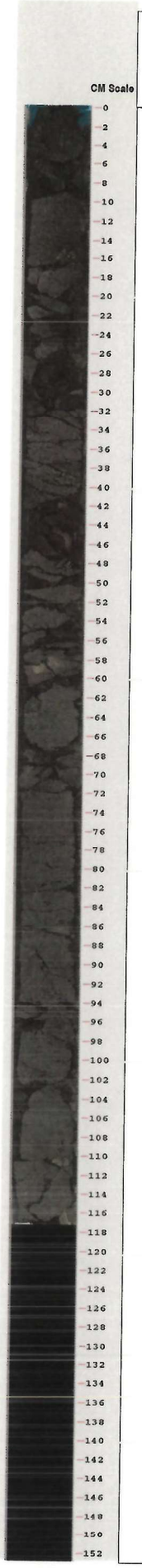
99-146cm: color ba (green-brown) mud


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Sandra
Date:
9/2
Comments
0–119 cm: Very dark
brown mud, color
w/ green, pyritized
burrows, but spa
bioturbation
fractured



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: Sandra	Date: 9/2
						Comments	

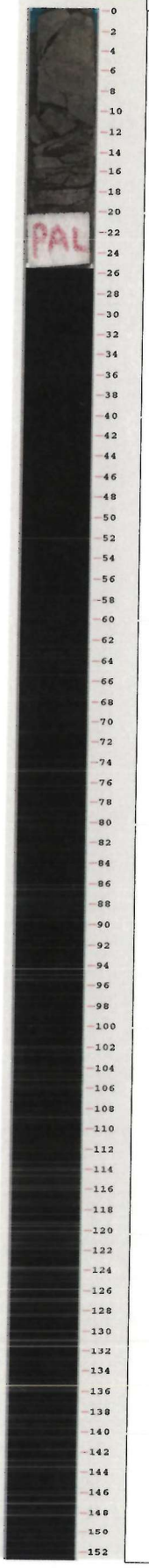
0-18cm: Olive gre
mud, brecciated
drilly, very slow
w/ 10% HCl



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: Sandra	Date: 9/24
			1		Ø	Comments	

0–108 cm: Very dark c
brown mud w/ colo
bandy (red-green)
pyritized burrows
throughout

108–118 cm: Brown s
mud, green veins
color banding?



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: Sandra	Date: 9/2
					Ø	Comments	

0-9 cm: same as

9-20 cm: Very dark brown mud, pyri burrows



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0							
2							
4			6				concrete dark brown g mud
6							
8							
10							
12							
14							
16							
18							- color band
20							
22							
24							
26		frac					- pyrite grai
28							
30							
32							
34		3		2			
36							
38							
40							
42							
44							
46							
48							
50							
52							
54							
56							
58							
60							
62							
64							
66							
68							
70							
72							
74							
76							
78							
80							
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96							
98							
100							
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104							
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126							
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130							
132							
134							
136							
138							
140							
142							
144							
146							
148							
150							
152							

Logged By:

Date:



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0							
2							
4							
6							dark brown grey
8							
10							
12							color b
14							
16							
18		fro					
20				(3)			bunous u
22							
24		(3)					pyrit
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							
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96							
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100							
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106							
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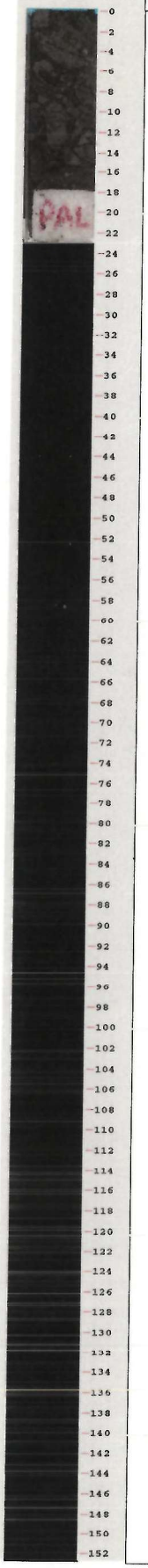
132							
134							
136							
138							
140							
142							
144							
146							
148							
150							
152							

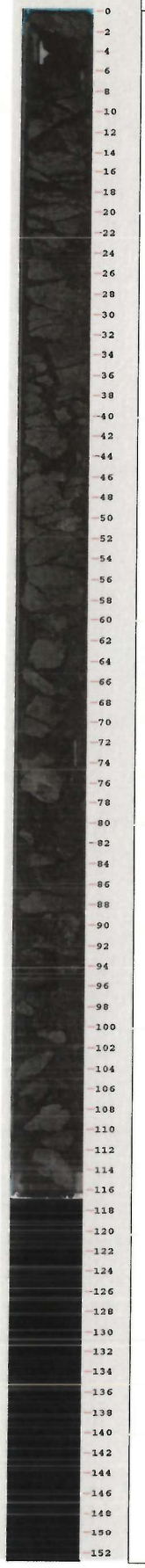
Logged By:

Date:



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	

dark gray bro
color bro



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
	(4)		(3)			Comments	

dark gray bro
- color ban
- burrows

foc



CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0							
2							
4							
6							
8							
10		(1)					
12							
14				0			
16							
18							
20							
22							
24							
26							
28							
30							
32							
34		frac					
36							
38							
40		(4)					
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							

Logged By: Date:

medium bro
calcareo
cemen
mud

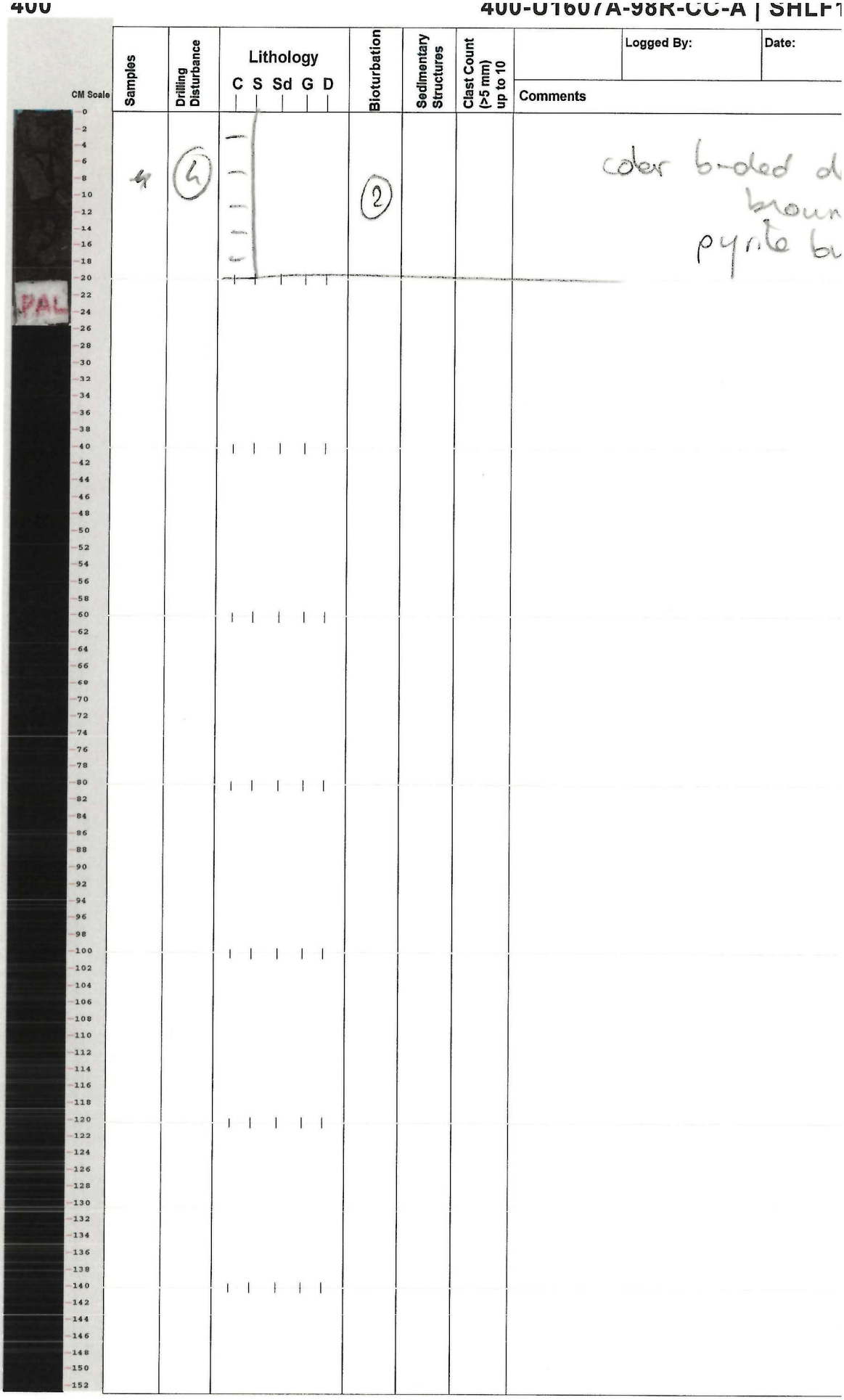
Dshap

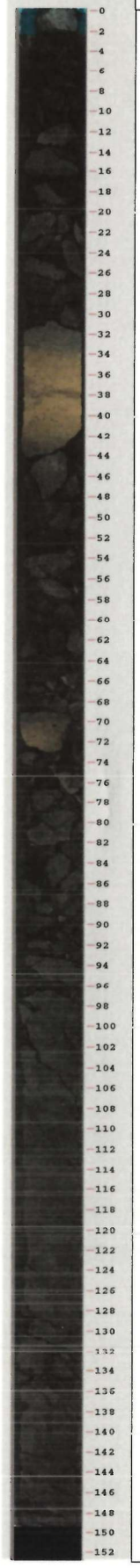
dark brown mu
color bande

not visible

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0							
2							
4							
6							
8	4	4		2			color banded d
10							brown
12							
14							pyrite bu
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							

Logged By: Date:





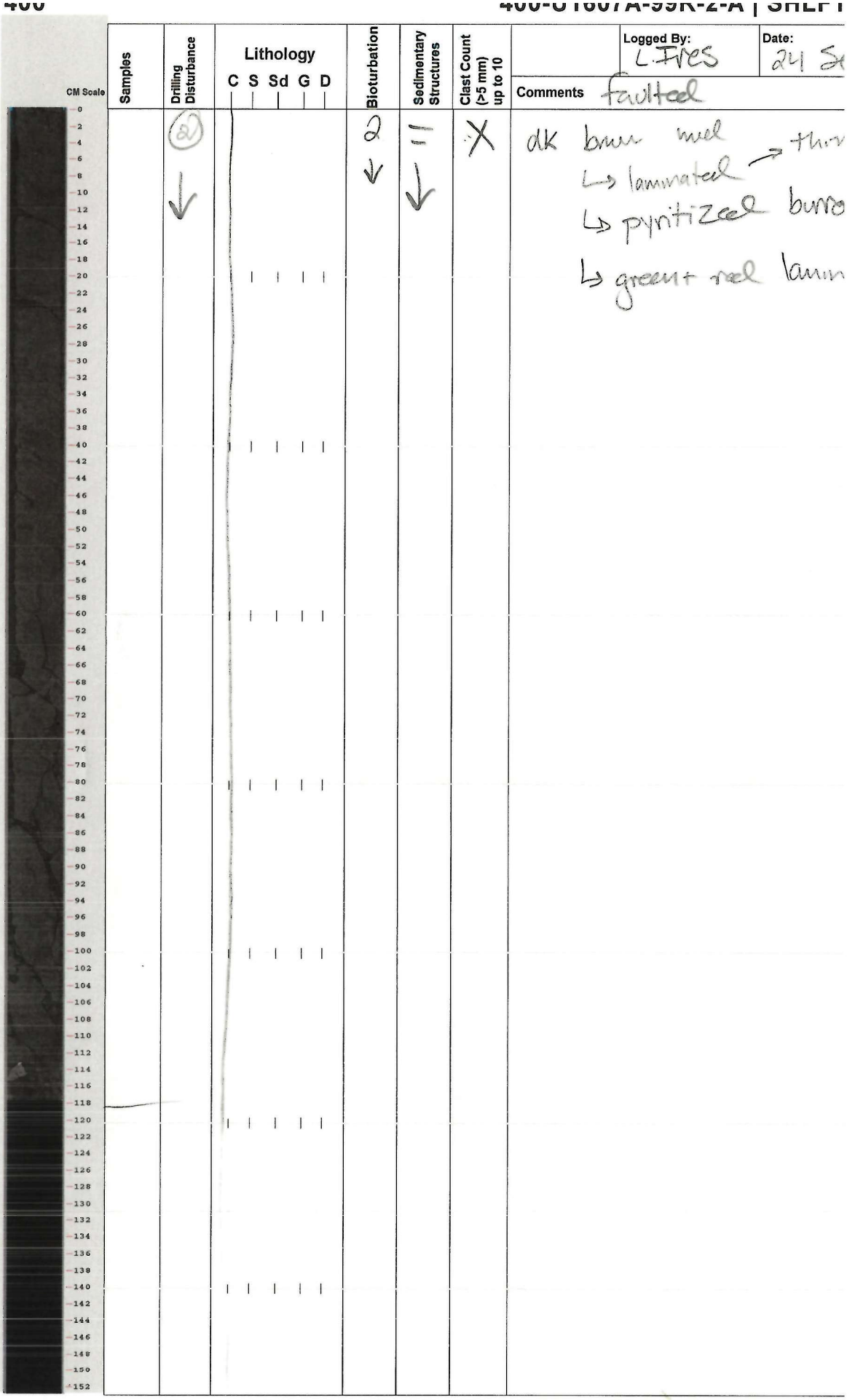
Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: L Fres	Date: 24-S
						Comments 0-1cm fall in	
	(4) bcc		X	X		0-31cm: brecciated dk brown	
	31						
	(6)		2	=		31-33cm: green clayey n	
			4			33-43cm: med yellow b calcareous m	
	43		2	=			
	(4) bcc.		X			42-43cm: dk greenish bro clayey	
	97cm					43cm-97cm: dk brn breccio	
	(2)		(2)	=		97-end: → thinly la dk brown mud w/ green laminae and dispersed coarse-sand of glaucon	

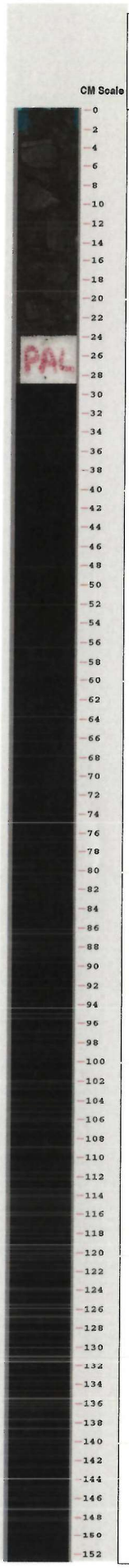
Logged By: L. Ives

Date: 24 Se

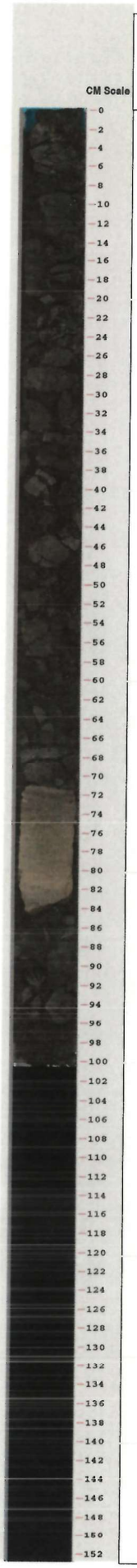
Comments faulted

CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	
0–152		(2) ↓		2 ↓	= ↓	X	dk brown mud ↳ laminated → thin ↳ pyritized burro ↳ green + red lamin





Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: L Ives	Date: 24 S
	(4) brec					Comments: brecciated dk brown mud	



Samples	Drilling Disturbance	Lithology (C S Sd G D)	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By: Sandra	Date: 9/24
						Comments	

fractured

0-72cm: Very dar
mud w/ color ban
(red-green) and 8

72—85 cm: Yella
abundantly bior
calcareous mud,
cemented.

small pyritized b

contacts disturbed

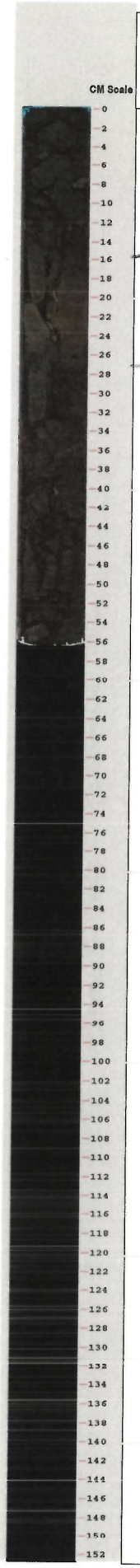


CM Scale	Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
0							
2							
4							
6							
8							
10							
12							
14		(4)					
16							
18							
20		fro					
22							
24							
26							
28							
30							
32							
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							

Logged By:

Date:

dark brown g
mud.
color band



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
	(4)					dark grey b color b-ded mud
						calcareous yellow cemented
	27					
	(4)					dark grey mud color b

CM Scale

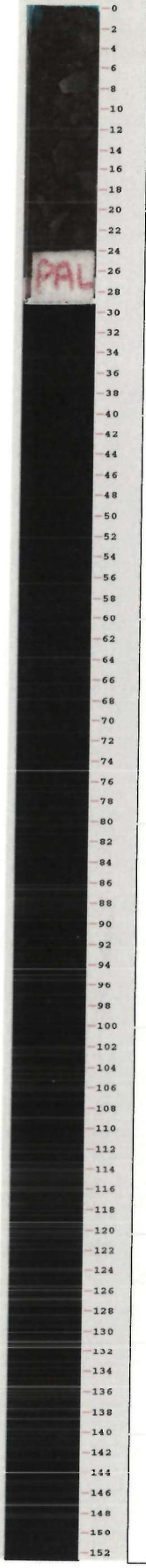
Logged By:

Date:

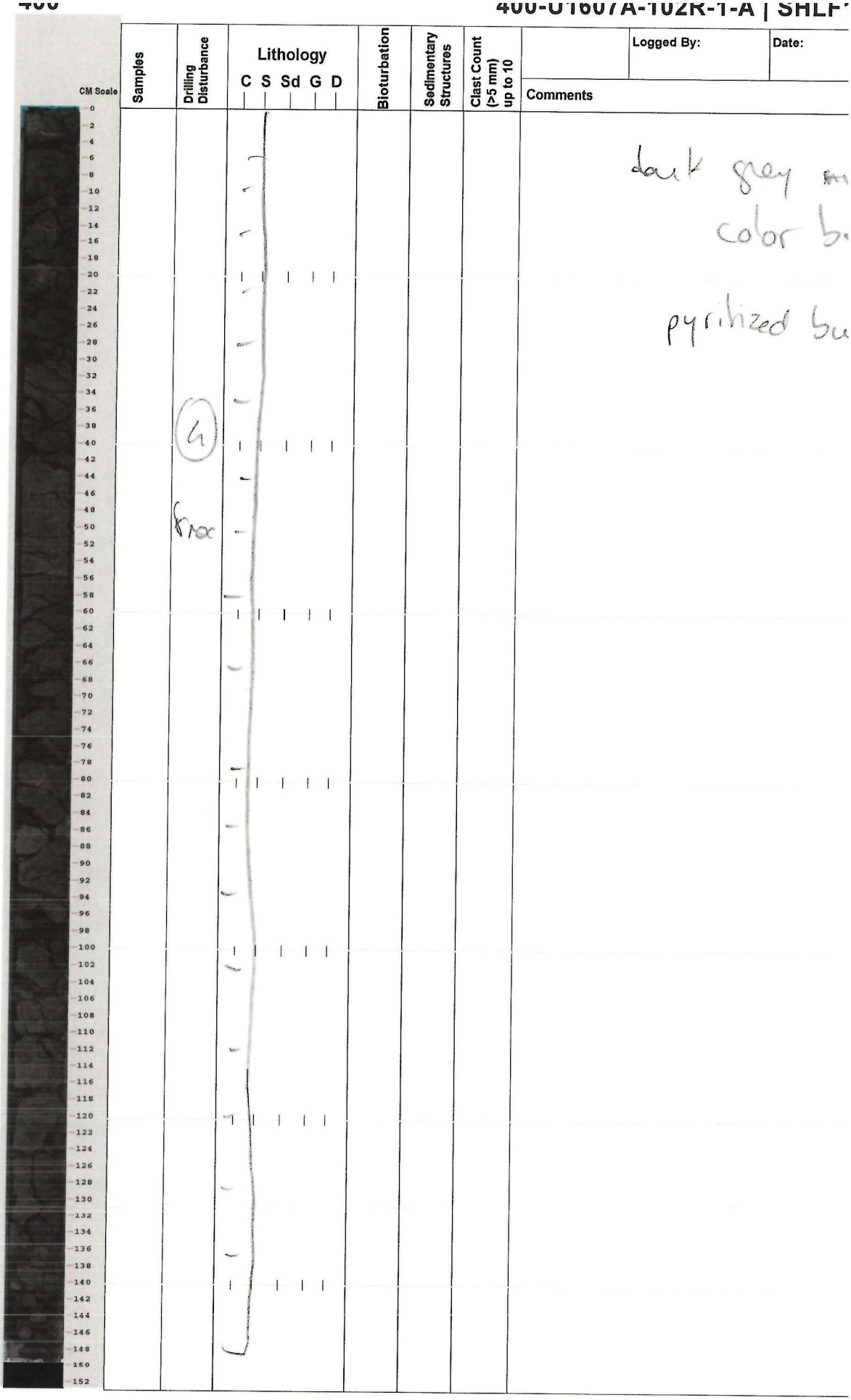
400-U1607A-101R-CC-A | SHLF

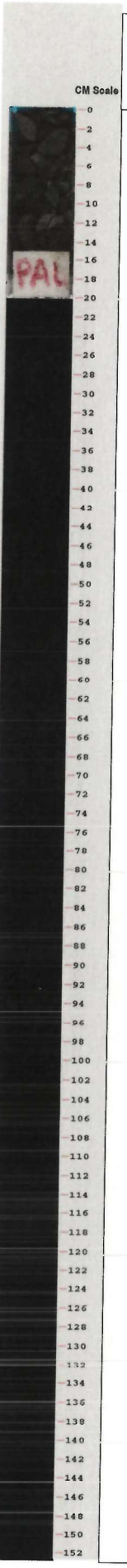
Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	

CM Scale



dark gray brow
color bro


CM Scale
Samples
Drilling Disturbance
Lithology
C S Sd G D
Bioturbation
Sedimentary Structures
Clast Count (>5 mm) up to 10
Logged By:
Date:
Comments
dark grey
color b
pyritized bu
(4)
frac



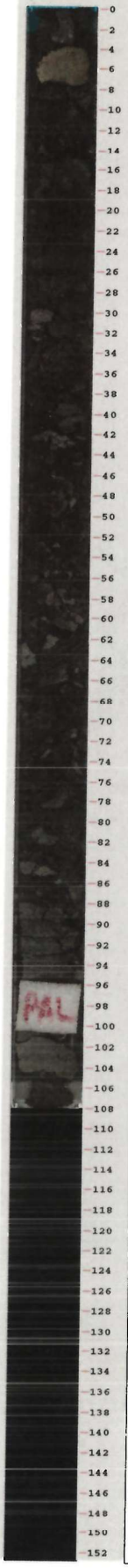
Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10
	(L)				

Logged By:

Date:

Comments

dark gray brow
color bad



Samples	Drilling Disturbance	Lithology C S Sd G D	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
						Comments	

0-96: dark grey w

one puce at top (

is light brown, ca

and bioturbated

102-base: yellow bro

mud (no f

Calcareous