Hole 368X-U1503A-2R Section 1, Top of Section: 995.1 m (CSF-A)

Sediment description

Logged by:

Date:

Dark gray claystone. Mostly massive and bioturbated with intervals of laminated claystone. Zoophycus burrows in Section 1, 26 and 122 cm.

Depth CSF-A (m) | Core length (cm) | Shipboard samples | Core image | Ash | Bottom contact | Bioturbation intensity | Disturbance type | Disturbance intensity | Comments

995.10 — 0 — Fall-in — F — H

995.20 — 10

19 — 20 — 995.30 — Sharp contact — L

27 — 26 — Zoophycus burrows. sharp contact

995.40 — 30 — H

35 — g

37 — laminated g

39 — 995.50 — 40 — 39cm SS — sand 0, silt 15, clay 85 — clay 85, qtz 5, feld 5, rock frag tr, ferro mag tr, calc 5 — = claystone

46 — P laminated g — 995.60 — 50

995.70 — 60 — H

6 g — 995.80 — 70 — g

laminated and x-laminated — 75 — 75cm SS — sand 0, silt 80, clay 20 — clay 10, qtz 50, feld 10, rf 20, ferro mag 10, calc tr, glau tr — = siltstone

78 — g — 995.90 — 80

996.00 — 90 — H

96 — P laminated siltstone — 996.10 — 100 — P

996.20 — 110 — H

117 — P — 996.30 — 120 — laminated and x-laminated siltstone

122 - zoophycus burrows

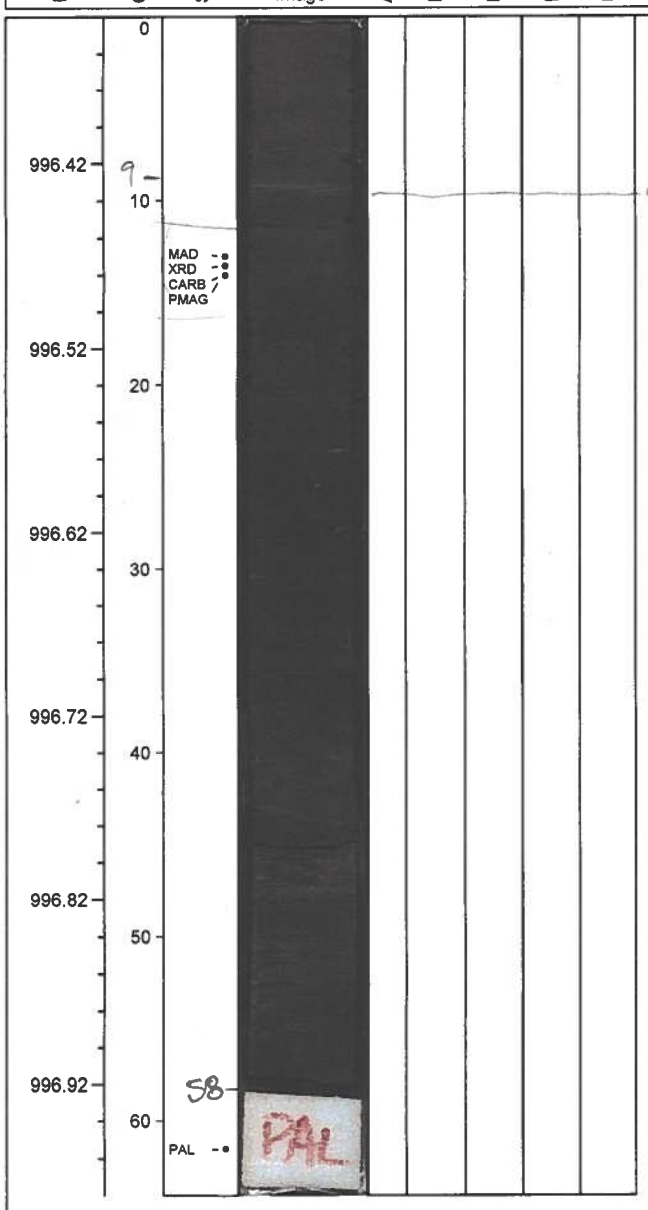
124 — HS

Hole 368X-U1503A-2R Section 2, Top of Section: 996.34 m (CSF-A)

Sediment description

Logged by:

Date:



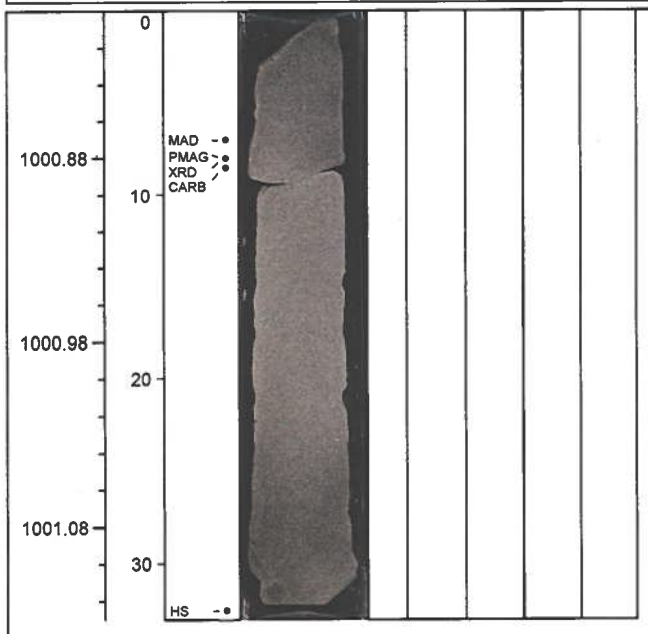
Hole 368X-U1503A-3R Section 1, Top of Section: 1000.8 m (CSF-A)

Sediment description

Gray, well-consolidated, medium-grained, massive sandstone.

Logged by:

Date:



Description kept same.

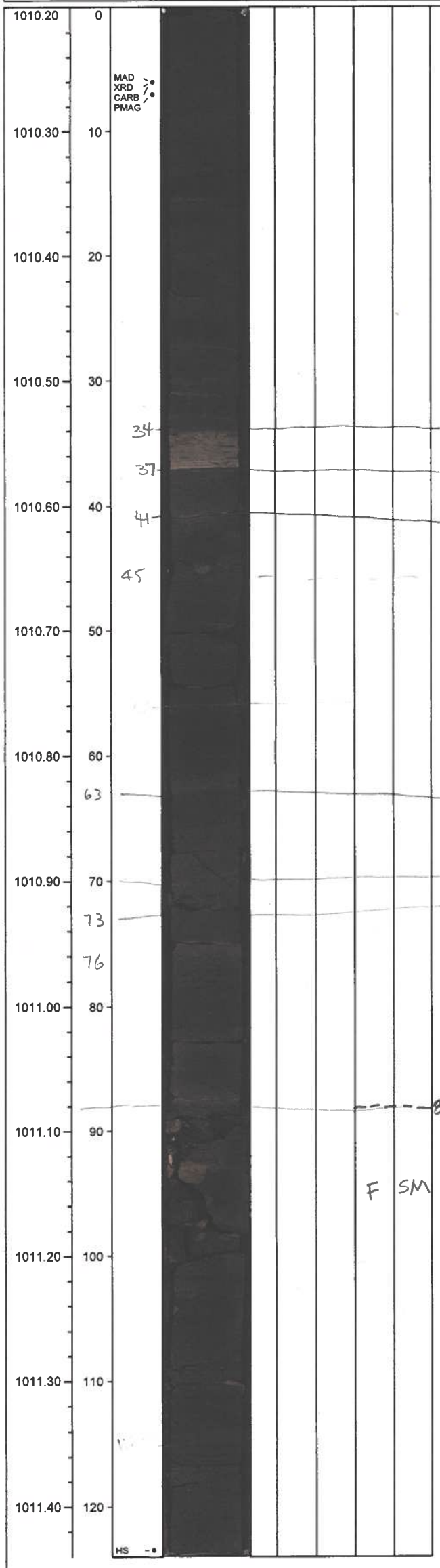
Hole 368X-U1503A-4R Section 1, Top of Section: 1010.2 m (CSF-A)

Sediment description

Logged by:

Date:

Very dark greenish gray claystone interbedded with dark gray and very dark gray sandy clay. The sandstone has rip-up clasts of claystone. There is an interval of grayish brown nannofossil-rich silty clay in Section 1, 34–37 cm.



Claystone

P

Chondrites burrows ↑upward fining 37 cm ss

P

claystone

g

siltstone

g

silty clay

57-61 rip up clasts

61cm ss

P

claystone

g

↑ ~~sandstone~~ sandy clay

e

76 loadcasts

claystone laminated

82-83 burrows

F SM

sandy clay

~~sandstone~~ with claystone rip up clasts

2.5Y 5/2 Grayish brown Nanno-rich silty clay.

Smear Slide

	Sand	Silt	Clay	Silic	Carb	Q	Feld	Clay	Calc	Mica	FM	Lithic	Gl	Nan
61 cm	10	20	70	70	30	15	10	40			5	tr	tr	30
37 cm	0	40	60	50	50	5	5	40	50					

Glauc. tr. Forams tr

Foram tr

50 ↑ overgrown ? nannos.

Hole 368X-U1503A-5R Section 1, Top of Section: 1019.8 m (CSF-A)

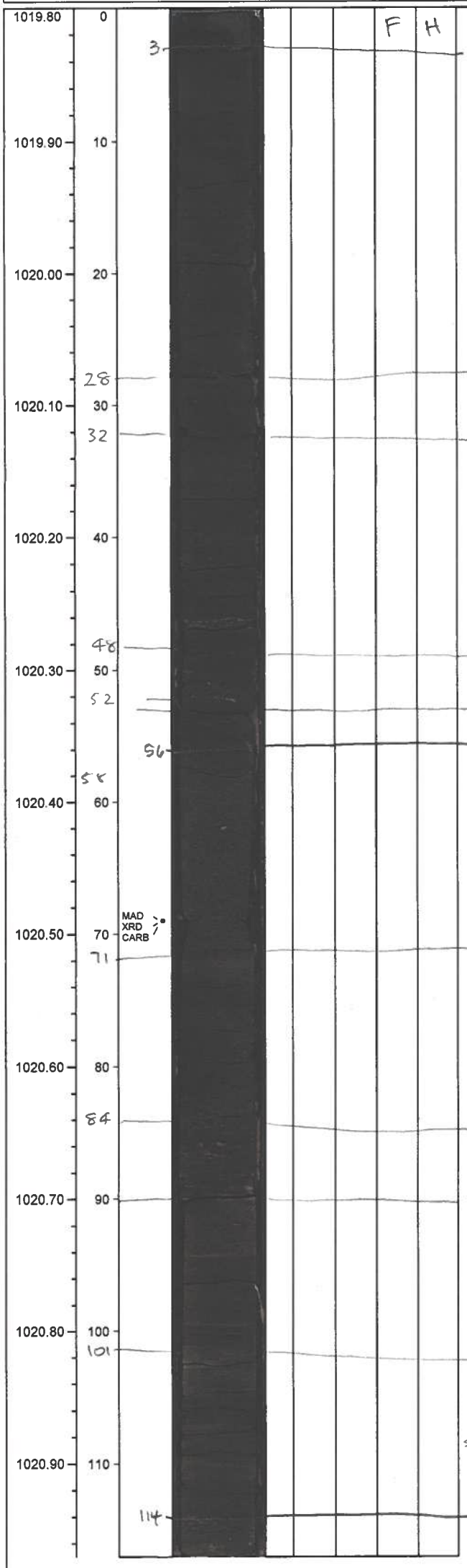
Sediment description

Logged by:

Date:

Very dark gray to very dark grayish brown claystone, silty claystone and clayey siltstone beds. Beds have sharp bases and fine upwards from laminated and moderately bioturbated basal intervals. These are interpreted as turbidites. Color changes down core to grayish brown in Sections 5, 6 + cc.

Depth CSF-A (m) | Core length (cm) | Shipboard samples | Core image | Ash | Bottom contact | Bioturbation intensity | Disturbance type | Disturbance intensity | Comments



Smear slide

58cm

Sand	Silt	Clay	Silic.	Carb.	Q	F	Lithic	Clay	Calc	FerroM.	Nano	Foram	Glauco.
25	25	45	80	20	30	5	tr	40	15		5	tr	5

Hole 368X-U1503A-5R Section 2, Top of Section: 1020.97 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1021.00	0								laminated silty claystone
	4								p
	10								claystone
1021.10									
	20								
1021.20	23								g
	25								lam. silty claystone
									g
	30								claystone
1021.30	34								g
	40								lam silty claystone
1021.40									
	46								p
	50								
1021.50									↑ claystone
	57								g
	60								↑ lam silty claystone
1021.60	64								p
	70								↑ claystone
	71								g
1021.70									
	80								
1021.80									↑ lam silty claystone
									85-93 chondrites
	90								
1021.90	93								p
	100	MAD PMAG XRD							
1022.00									↑ claystone
	110								
1022.10	112								g
	114								↑ silty claystone
									p
	116								← claystone
									p
	118								p lam. silty claystone
	120								claystone

Hole 368X-U1503A-5R Section 3, Top of Section: 1022.18 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1022.20	0					H			claystone
	8								g
	10					M			laminated silty claystone
1022.30	12								g
	20					H			claystone
1022.40	26								g
						M			laminated silty claystone
	29								p
	30					H			claystone
1022.50	31								g
						M			laminated silty claystone Chondrites
	36								g
						H			claystone
	40								p
1022.60									
	50					H			↑ claystone
1022.70									55 cm chondrites
	57								g
	60								
1022.80									lam silty claystone
	70					M			
1022.90									
	77								g
	80								
1023.00						H			claystone
	88								g
	90					M			lam silty claystone chondrites at 92 cm.
1023.10	93								p
						L			lam claystone
	100								
1023.20	103								g
						M			lam silty claystone
	107								p
	110					H			
1023.30	111								g
						H			dk brown 10YR 3/3 Claystone
	120								
1023.40	124								g
						H			
	130								
1023.50	133					N			p lam silty claystone
	135								p
						M			Silty claystone

Hole 368X-U1503A-5R Section 4, Top of Section: 1023.57 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1023.60	0					M			lam silty claystone
	3								P
						H			↑ Claystone
	8								g
	10					M			↑ lam silty claystone chondrites
1023.70	11								P
						H			↑ Claystone
1023.80	20								
	25								g
						M			↑ Lam silty claystone chondrites.
	30								P
1023.90						H			Claystone
	36								P
	40					M			Lam silty claystone chondrites
1024.00	42								P
						H			↑ Claystone
1024.10	50								
	60								g
						M			↑ Lam silty claystone chondrites
1024.20	64								P
						H			↑ Claystone
1024.30	70								
	76								g
						M			↑ Lam silty claystone chondrites
	80								
1024.40	81								P
						H			Claystone
	90								
1024.50	92								g
						M			Lam silty claystone chondrites
	97								P
	100								
1024.60						H			Claystone
	110								
1024.70	115								g
	118					M			lam claystone chondrites
	120					N			g lam claystone
						H			g claystone
1024.80	123								g
						M			lam silty claystone
	129								P
	130								
1024.90									Claystone
	139								g
	140								
1025.00									Claystone.
	150								

Hole 368X-U1503A-5R Section 5, Top of Section: 1025.07 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1025.10	0								Change colour in section 5, 6 + CC to grayish brown 10YR 5/2.
	10					H			Claystone
1025.20	19								g
	20								
	21	SS				L			21 cm SS Siltstone laminated
1025.30	24								P
						H			↑ Claystone
	29								g
	30					M			↑ Lam claystone Chondrites
	31								P
1025.40						H			↑ Claystone
	38								g
	40					M			↑ Lam silty clay. Chondrites
	41								P
1025.50						H			↑ P Claystone
	45								g
	46					M			↑ P Lam silty clay. C
	50								
1025.60						H			↑ Claystone.
	60								g
1025.70	64	SS				M			↑ 64 cm SS Clayey siltstone. Lam C
	66								P
	70								
1025.80						H			↑ Claystone
	80								
	81								g
1025.90						M			↑ Lam clayey siltstone C
	86								P
	90					M			Silty claystone
1026.00	95								g
	100					L			Lam clayey siltstone Chondrites 100–102
1026.10	104								g
	110								
1026.20						L			Clayey siltstone
	120								
1026.30									
	130								
1026.40									
	140								
1026.50		HS							

See over for SS

Hole 368X-U1503A-5R Section 6, Top of Section: 1026.52 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
	0					M		↑	Silty claystone
	6				P				
1026.60						M		↑	Silty claystone
	10								
	12				P				
						H		↑	Silty claystone
1026.70	18				g				
	20								
						M		↑	Clayey siltstone Lam. Chondrites
1026.80	29				P				
	30								
						H			Silty claystone
1026.90	38				g				
	40				g	L			Lam silty claystone
						H			Claystone
1027.00	49				g				
	50								
						H		↑	SiltyClaystone
1027.10	59				g				
	60					M		↑	Clayey siltstone
	64				P				
1027.20						H		↑	Claystone
	70	MAD CARB PMAG							
	73				g	M		↑	Silty claystone
	75				P				
1027.30						M		↑	Silty claystone
	79				g				
	80								
						H		↑	Claystone
	87				g				
1027.40	88					M		↑	Lam silty claystone C
	90				P	H		↑	clay.
	91				g P	M		↑	L. S. Cl. C
						H		↑	Silty claystone
1027.50	100				g				
						M		↑	Clayey Siltstone C Lam.
1027.60	108				P				
	110					H		↑	Silty claystone
	111				P				
1027.70						M		↑	"
	120								
	122				P				
						H			"
1027.80	129				P				
	130								Lam clayey siltstone C

10YR 5/2

Hole 368X-U1503A-5R Section CC, Top of Section: 1027.84 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1027.84	0					M			Silty claystone
1027.94	10								
	13	PAL	PAL			M			Clayey siltstone Lam. Chondrites.

10 YR 5/2

Hole 368X-U1503A-6R Section 1, Top of Section: 1029.4 m (CSF-A)

Sediment description

Very dark grayish brown, claystone, ~~and~~ laminated and clayey siltstone silty claystone in fining upward beds. Beds with laminated bases that fine upward are interpreted as turbidites.

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1029.40	0						H	F	Fall in
	7								
1029.50	10					H			↑ Claystone
	15								g
						M			↑ Lam silty claystone Chondrites
	19								p
1029.60	20					M			↑ Claystone
	29								p
1029.70	30					H			↑ Claystone
	34					M			↑ Lam silty claystone Chondrites
									p
	35					M			↑ Claystone (C)
1029.80	40								
	42					M			↑ Lam silty claystone (LSC)
	48								p
1029.90	50					M			↑ C
	56								g
1030.00	60					H			↑ C
	67					M			g
									↑ LSC Chondrites
	69								p
1030.10	70					H			↑ C
1030.20	80								
	84					M			g
									↑ LSC Chondrites
	89								p
1030.30	90					H			↑ C
1030.40	100								
	101					M			g
	102								p ↑ LSC C
1030.50	110					M			↑ C
	118								g
1030.60	120					M			↑ LSC C

Hole 368X-U1503A-6R Section 2, Top of Section: 1030.64 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m) | Core length (cm) | Shipboard samples | Core image | Ash | Bottom contact | Bioturbation intensity | Disturbance type | Disturbance intensity | Comments

1030.70
0
8
10
1030.80
20
21
1030.90
29
30
1031.00
40
PMAG
XRD
CARB
MAD
1031.10
48
50
1031.20
54
60
1031.30
64
70
72
1031.40
80
1031.50
90
93
1031.60
100
102
1031.70
106
110
1031.80
120
124
1031.90
128
130
1032.00
138
140
HS

H Claystone
P
H ↑ C
g
M ↑ LSC C
P
H ↑ Claystone
g
M ↑ Silty claystone
Irreg
H ↑ C
Inclined
M ↑ LSC C
P
H ↑ C
g LSC C
P
H ↑ C
g
M ↑ LSC
g
M ↑ C
g
L ↑ Lam dayey siltstone
P
H ↑ C
g ↑ LSC Chondrites.

64 - 68 cm has sandstone on edge of core - might be a drilling artefact

90 - 104 as above

SS 103cm Sandstone

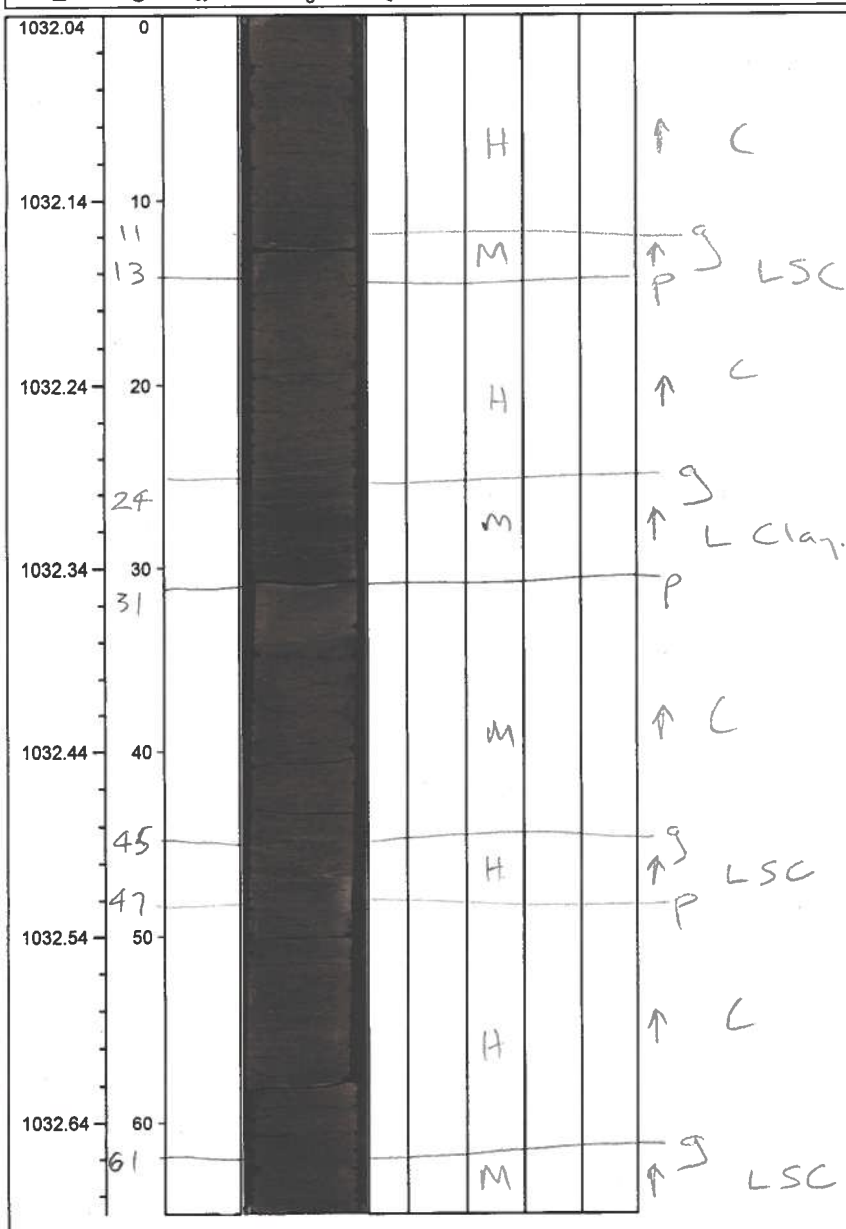
SS on back

Hole 368X-U1503A-6R Section 3, Top of Section: 1032.04 m (CSF-A)

Sediment description

Logged by:

Date:



Hole 368X-U1503A-8R Section 1, Top of Section: 1048.4 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1048.40	0					N			Sandstone massive
	6								
1048.50	10					M			↑ Silty claystone laminated
	16								P
1048.60	20					M			↑ Silty claystone.
	26								P
						H			claystone
1048.70	30								
	31					N			P Siltstone laminated
	33								P
	37					M			Clayey siltstone Chondrites
	39					N			P Clayey siltstone Laminated — 5Y 3/2 Dk olive gray
1048.80	40								P
						M			↑ Claystone
	46								P
						H			Claystone
1048.90	50								g
						L			Laminated clayey siltstone
	56								P
1049.00	60					H			Claystone
	66								g
1049.10	70					L			Laminated clayey siltstone (LCS)
	74								P
1049.20	80					H			Claystone
1049.30	90	MAD -● CARB -● PMAG -● XRD -●							
	96								P
						L			L CS
1049.40	100								P
	101								
						H			Claystone
1049.50	110								
	115								P
						L			LCS
1049.60	120								
	122								P
						M			↑ Claystone
	128								P
1049.70	130					H			claystone
	135								P
	136					L			P LCS
						H			Claystone
1049.80	140								

Hole 368X-U1503A-8R Section 2, Top of Section: 1049.81 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
	0								Clayey siltstone with sand. Inclined bedding
	4								irreg.
									← Sandstone. Intraclasts.
	6								erosional
1049.90	10					H			Claystone
	18								g LSC C
1050.00	20					M			p
1050.10	30					H			C
	35					M			g LSC Cl
	37								g Cl
1050.20	40					H			
	41								g LCS Zoophycus
	44					L			p LCS " C
	47					L			p
1050.30	50					L			LCS
	55								p
	58					M			Clayey Siltstone 57cm SS
1050.40	60					L			↑ g Siltstone
	63					H			p Cl
	67					L			p LCS
									g
1050.50	70								↑ Silt claystone p
1050.60	80					H			Claystone
1050.70	90								
	98								g
1050.80	100					M			LCS
	103								erosional. Load casts
	107					M			LCS
									p
1050.90	110					H			Claystone
	114	HS				M			g LCS

Smear slide
57 cm

Sand	Silt	Clay	Silic	Carb	Q	F	L	Calc	Clay	Nanno	Foram.
—	50	50	30	70	C	R	—	C	C	C	R

Clayey siltstone

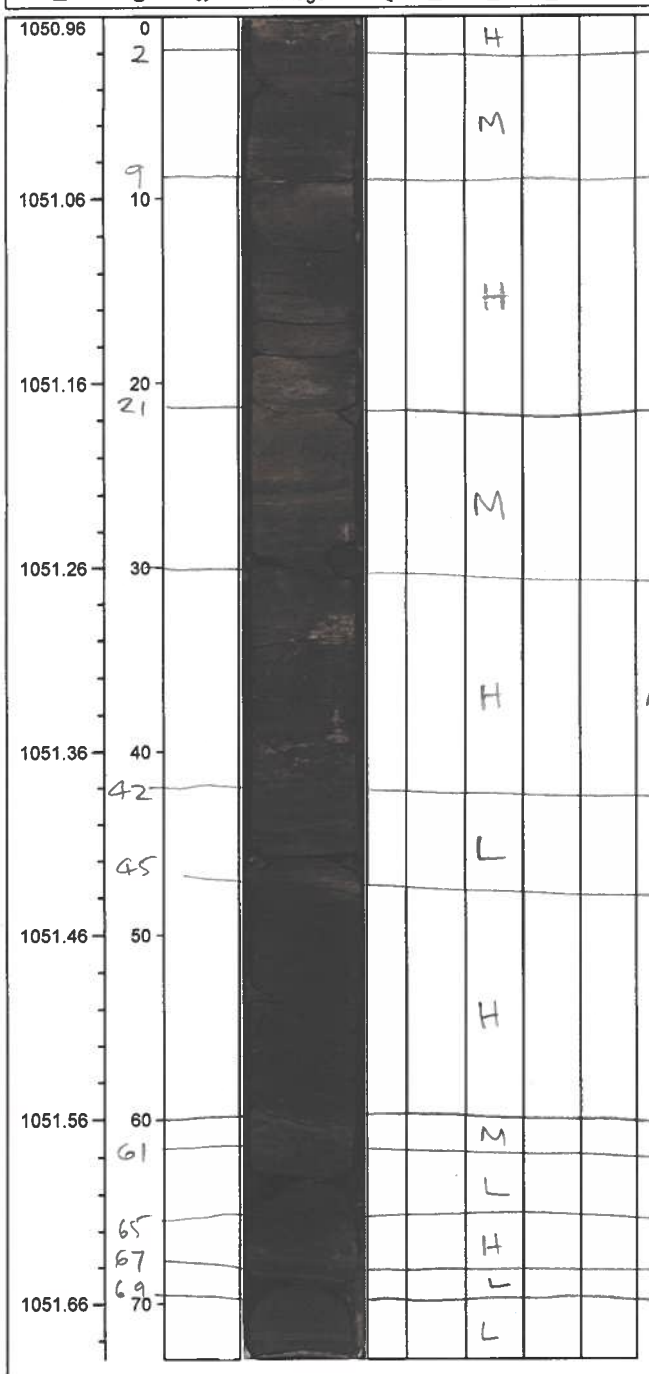
Hole 368X-U1503A-8R Section 3, Top of Section: 1050.96 m (CSF-A)

Sediment description

Logged by:

Date:

Gray and very dark gray claystone, silty claystone and clayey siltstone interbedded with greenish gray sandstone. Some beds fine upward from laminated silty bases to claystone tops and are interpreted as turbidites.



55 72 cm.

Smear Slide
72 cm

Sand	Silt	Clay	Silic.	Carb.	Q	F	L	Clay	Calcite	Nanno	Foram	Glauco.
—	85	15	80	20	A	C	—	C	R	R	R	TR
Siltstone												

Pyrite
R

Hole 368X-U1503A-9R Section 1, Top of Section: 1058.0 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m) | Core length (cm) | Shipboard samples | Core image | Ash | Bottom contact | Bioturbation intensity | Disturbance type | Disturbance intensity | Comments

Very dark gray very dark greenish gray laminated clayey siltstone interbedded with moderate to heavy bioturbated dark reddish gray claystone. A sandstone layer with a sharp basal contact in section 1.

fining upward sequences of

1058.00 | 0

Claystone

M-H

1058.10 | 10

g

1058.20 | 20

Heavy

22

Sandstone

1058.30 | 30

Medium

medium grained.

s

sharp

1058.40 | 40 | CARB XRD MAD

Mod

1058.50 | 50

fining upward fine sandstone to

Very low

1058.60 | 60

base of laminated interval, moderately bioturbated

g | mod

fining upward, finely laminated clayey siltstone to less laminated silty claystone

mod

low

1058.70 | 70

base of laminated interval, moderately bioturbated (chondrites)

g | heavy

mod

finely laminated clayey siltstone to less silty claystone

1058.80 | 80

Low

base of interval heavily bioturbated (chondrites)

g | heavy

1058.90 | 90

Mod

Fining upward finely laminated clayey siltstone to less laminated silty claystone

1059.00 | 100

Low

base of interval heavily bioturbated (chondrites)

g | H

1059.10 | 110

M

Same as above sequence

L

large oval burrow (1cm h.g, 2.5cm long) bioturbation heavy at the base

1059.20 | 120

g | H

M

Same as above

heavy bioturbation at the base

H

g

M

1059.30 | 130

Same as above

g | heavy

M

1059.40 | 140

L

Same as above

g

Hole 368X-U1503A-9R Section 2, Top of Section: 1059.43 m (CSF-A)

Sediment description

Logged by: Carlos

Date:

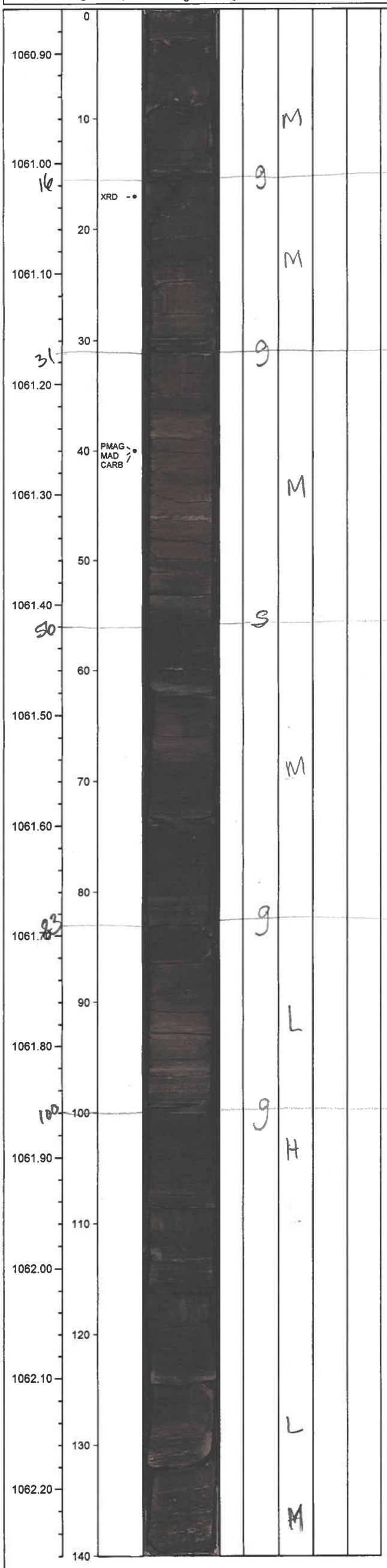
Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1059.50	0					H			↑ Laminated siltstone to claystone
	10				g	L			heavily bioturbated at base (chondritic)
11						H			Claystone
1059.60						L			
	20								
25					g	H			Heavily bioturbated at base, burrow infill is sandier
1059.70									
	30					H			Fining upward Laminated siltstone to heavily bioturbated claystone
1059.80									
	40								
1059.90						L			
	50								
54					g				chondritic bioturbation
1060.00						H			Fining upward, laminated siltstone to more heavily bioturbated claystone.
	60								
1060.10						L			
70					g				
1060.20						L			
	80								
1060.30						H			Alternating laminated siltstone with densely bioturbated claystone. Base of laminated sections is heavily bioturbated. Gradational contacts.
	90								
1060.40						L			
	100								
1060.50						H			
	110					L			
1060.60									
	120								
						H			Large burrows with sand infills.
1060.70									
	130								
1060.80									
	140	HS							

Hole 368X-U1503A-9R Section 3, Top of Section: 1060.86 m (CSF-A)

Logged by: Carlos

Date:

Sediment description



Fining upward
50% Claystone

50% Laminated siltstone

Fining upward

Claystone 50%

Laminated siltstone 50%

Fining upward

Claystone 50%

Laminated siltstone 50%

sharp contact

Fining upward

claystone 50%

Laminated siltstone 50%

Fining upward

claystone 50%

Laminated siltstone 50%

Fining upward

claystone 50%

Laminated siltstone 50%

Hole 368X-U1503A-10R Section 1, Top of Section: 1067.6 m (CSF-A)

Sediment description: well-sorted greenish gray lithified massive sandstone.

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1067.60	0								
1067.70	10	TS TSB							
1067.80	20								No change from previous description
1067.90	30	CARB MAD XRD							
1068.00	40								
1068.10	50	HS							

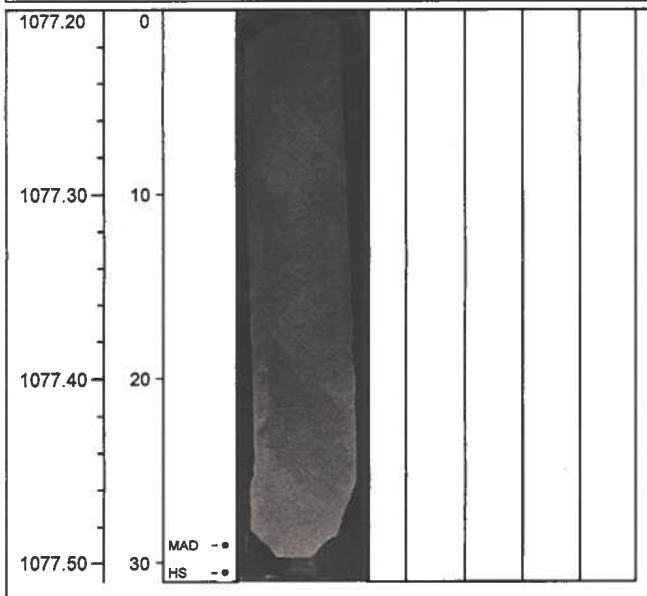
Hole 368X-U1503A-11R Section 1, Top of Section: 1077.2 m (CSF-A)

Sediment description

Greenish gray lithified massive, well-sorted sandstone.

Logged by:

Date:



No change from previous desciption.

Hole 368X-U1503A-12R Section 1, Top of Section: 1086.8 m (CSF-A)

Sediment description

Logged by:

Date:

Very dark greyish brown and dark gray claystone, silty claystone and clayey siltstone. The SC and CS are laminated and fine upward to massive claystone. These are interpreted as turbidites. There is very dark greenish gray sandstone with claystone intraclasts in Section 1.

Depth CSF-A (m) | Core length (cm) | Shipboard samples | Core image | Ash | Bottom contact | Bioturbation intensity | Disturbance type | Disturbance intensity | Comments

1086.80 — 0
1086.90 — 10
1087.00 — 20 — H — Claystone
1087.10 — 30
36 — M — g — LSC
38 — P
1087.20 — 40 — MAD PMAG XRD
1087.30 — 50 — H — Claystone
1087.40 — 60
67 — Irreg
L — Sandstone 30 / Claystone 70 Intraclast
1087.50 — 70
73 — g
L — Sandstone with claystone intraclasts, black organic frags
1087.60 — 80 — g — MAD CARB
1087.70 — 90
1087.80 — 100 — N — Sandstone – as described.
1087.90 — 110
119 — 119 - intraclast
1088.00 — 120
126 — erosional. Claystone
H
129 — P + oblique
L
1088.10 — 130 — P — LCS
L — Massive sandstone
138 — erosional
1088.20 — 140 — H — Claystone
149 — g — LSC
HS

Hole 368X-U1503A-12R Section 2, Top of Section: 1088.29 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1088.30	0					L			LSC
	4								P
						H			Claystone
	10								
1088.40	14								P
						M			Claystone — 5Y 4/1 Dark gray
	17								P
	20					H			Claystone
1088.50									
	25								g
						M			↑LSC
	29								P
1088.60	30								
						H			Cl
	40								
1088.70	44								g
						L			↑LCS C
	49								P
	50					H			↑ Claystone
1088.80									
	56								P
						H			Cl
	59					M			g LSC C
	60								P
1088.90	61								
						H			↑Cl
	68								g
						M			LSC C
	70								
1089.00	71								g
						H			↑Cl
	76								g
									LSC C
	79								P
	80								
1089.10									
						H			↑ Cl
	90								
1089.20									
	93								
						L			LSC
	99								
	100								Cl
1089.30						H			↑ 104- large burrow Thalasinoides.
	105								
						M			LCS C
	110								
1089.40						H			Claystone

Hole 368X-U1503A-13R Section 1, Top of Section: 1096.4 m (CSF-A)

Sediment description

Very dark grayish brown to dark gray claystone and laminated silty claystone with gradational contacts. Beds fine upwards from laminated bases to massive tops.

Logged by: Carlos

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1096.40	0								Claystone
						H			
1096.50	10				g				
11									Laminated silty claystone
17					g				
1096.60	20								Claystone
						H			
1096.70	30								
32					g				
									laminated silty claystone
1096.80	40								
44					g				
									Claystone
1096.90	50					H			
56					g				laminated silty claystone with large burrows with sandy infills.
58					g				
1097.00	60								claystone
						H			
1097.10	70 (70)				g				laminated silty claystone
73					g				
1097.20	80					H			Claystone
87					g	H			Laminated silty claystone
1097.30	90 (90)				g				
						H			Claystone
1097.40	100								
1097.50	110	PMAG, MAD, CARB, HS							

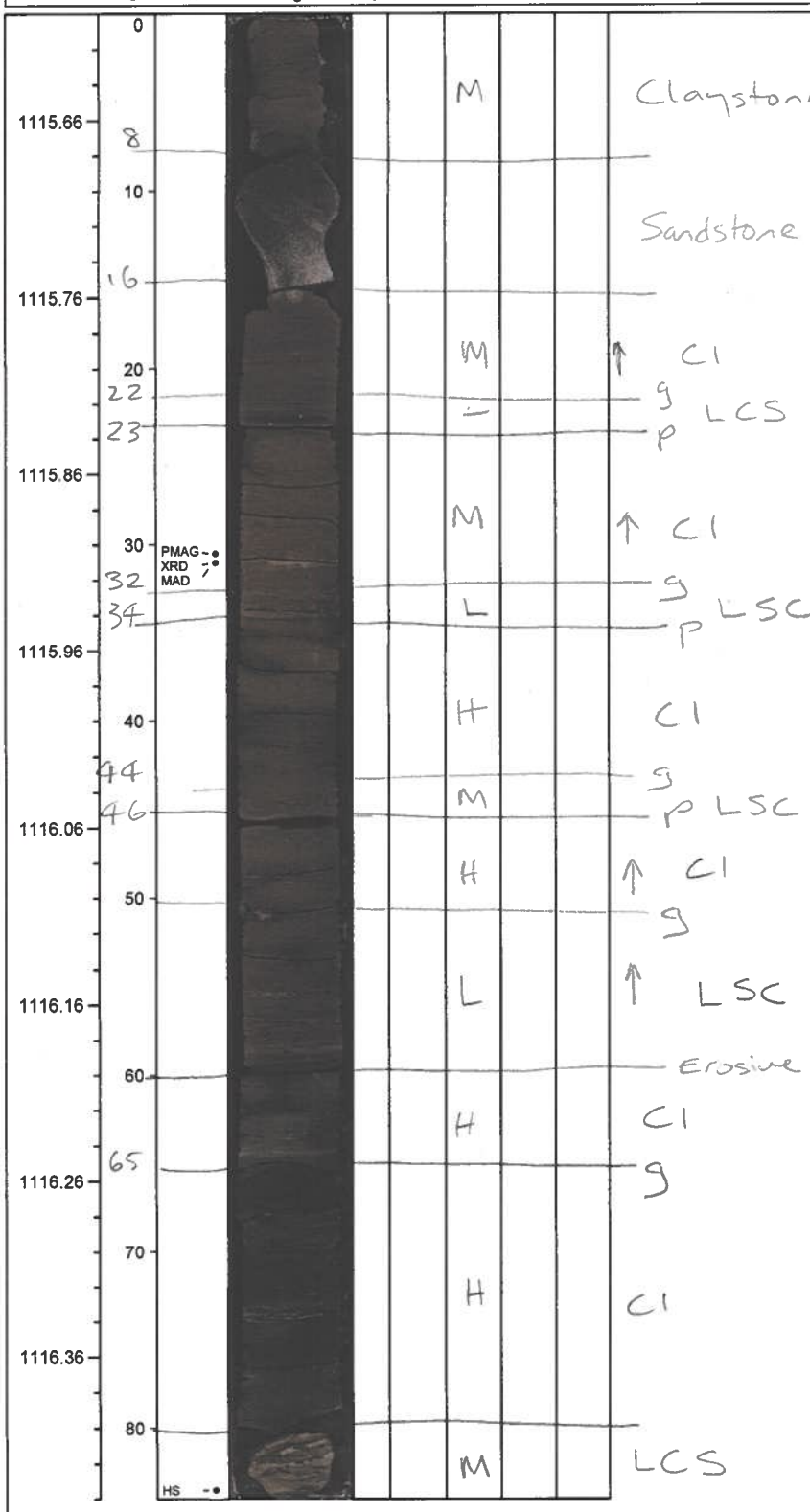
Hole 368X-U1503A-15R Section 1, Top of Section: 1115.6 m (CSF-A)

Sediment description

Logged by:

Date:

Very dark grayish brown and very dark gray laminated claystone and silty claystone, olive gray laminated clayey siltstone, and greenish gray sandstone. Beds fine upward from laminated bases to massive tops and are interpreted as turbidites.



5Y 3/1 Very dk gray

5Y 5/2 Olive gray

Hole 368X-U1503A-16R Section 1, Top of Section: 1125.1 m (CSF-A)

Sediment description

Logged by:

Date:

Very dk grayish brown, dark brown and dark olive gray claystone and laminated silty claystone, olive gray laminated clayey siltstone and rare dark greenish gray siltstone. Beds ~~grade~~ fine upward from laminated clayey

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1125.10	0								Sandstone
	2								~~bases~~ siltstone bases to claystone tops and are interpreted as turbidites.
	6					H			Cl
									g
1125.20	10					L			LCS 5Y 5/2 Olive gray
	14								P
1125.30	20					H			Cl
	24								g
						M			LCS Zoophycos x-lamination.
1125.40	30								erosive
	32					H			Cl
1125.50	40								
	43								g
						M			LCS
	48								P
1125.60	50					H			Cl
	53								P
						M			↑ Clayey sandstone
1125.70	60								P
	62					H			Cl
	65								P
						L			P LSC
	67								
1125.80	70					H			↑ Cl
	72								g
						M			LSC
	75								P
1125.90	80					H			↑ Cl
	83								P
						H			↑ Cl
	87								P
1126.00	90					H			↑ Cl
	99								g
1126.10	100					H			↑
	102								g
						H			↑ Cl
	108					L			g LSC
1126.20	110								P
						H			↑ Cl
	115								g
						M			LSC
	119								P
1126.30	120					H			↑ Cl
	125								g
						M			LSC
	128								P
1126.40	130								
						H			Cl 7.5YR 3/2 Dark brown
1126.50	140								
	147					H			Cl 5Y 3/2 Dark olive gray
1126.60	150								

Hole 368X-U1503A-16R Section 2, Top of Section: 1126.61 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
	0					H		↑	Cl
	7							g	
	9					M		p	LSC C
1126.70	10					H		↑	Cl
	18							g	
1126.80	20					M			LSC C
	21							p	
	24					H		↑	Cl
								p	
1126.90	29					H		↑	Cl
	30							p	
						H		↑	Cl
1127.00	40								
	41							g	
						H		↑	Cl
1127.10	50								
	52							g	
						H		↑	Cl
1127.20	59							g	
	60					M			Lam cl
	61							p	
						H		↑	Cl
1127.30	70								
	73							g	
	75					L		p	LSC
1127.40	80					H		↑	Cl
	88							g	
1127.50	90					M		p	LSC C
						H		↑	Cl
1127.60	100								
	104							g	
						L			LSC
	107							p	
1127.70	110					M		↑	Cl
	111							p	
						H		↑	Cl
1127.80	120							p	
						H		↑	Cl
	123							g	
	125					L			LSC
								p	
1127.90	130					H		↑	Cl
	133					L		g	LSC

Gley1 3/5GY

Hole 368X-U1503A-16R Section 3, Top of Section: 1127.96 m (CSF-A)

Sediment description

Logged by:

Date:

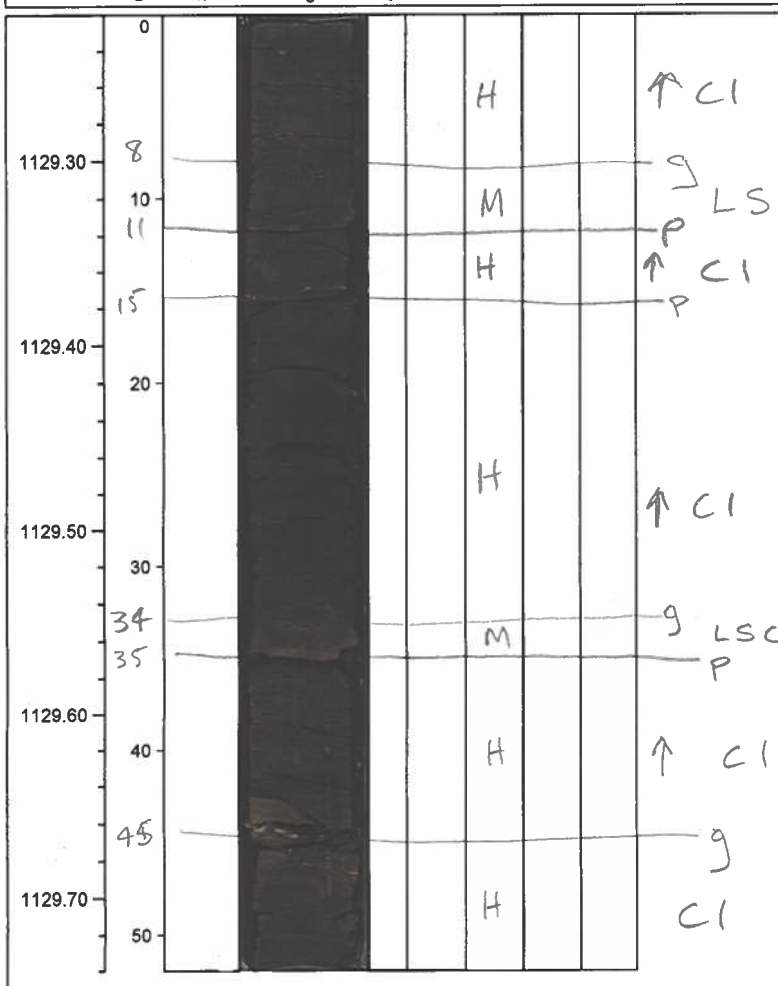
Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1128.00	0								
	10					H		↑	Cl
1128.10	17							g	
	19					M		p	LSC
	20								
1128.20						H		↑	Cl
	30								
	31							g	
1128.30	35					L		p	LSC
	40					M		↑	SC C
1128.40	45							g	LCS
	46					L		p	
	50					H		↑	Cl
1128.50									
	59							p	
	60					H		↑	Cl
1128.60	63							p	
	70					H		↑	Cl
1128.70	75							Irreg	
	80	XRD PMAG CARB MAD							
1128.80						H		↑	Cl
	90								
1128.90	97							g	
	100					M		p	LSC C
1129.00						H		↑	Cl
	110								
	112							g	LSC
1129.10	114					M		p	
						H		↑	Cl
	118							g	LCS
	119					M		p	Irreg.
	120								
						H		↑	Cl
1129.20	124	HS				M		g	LSC

Hole 368X-U1503A-16R Section 4, Top of Section: 1129.22 m (CSF-A)

Sediment description

Logged by:

Date:



Hole 368X-U1503A-17R Section 1, Top of Section: 1134.7 m (CSF-A)

Sediment description

Logged by:

Date:

Very dark gray and very dark grayish brown claystone and laminated silty claystone. Beds have laminated bases and fine upward.

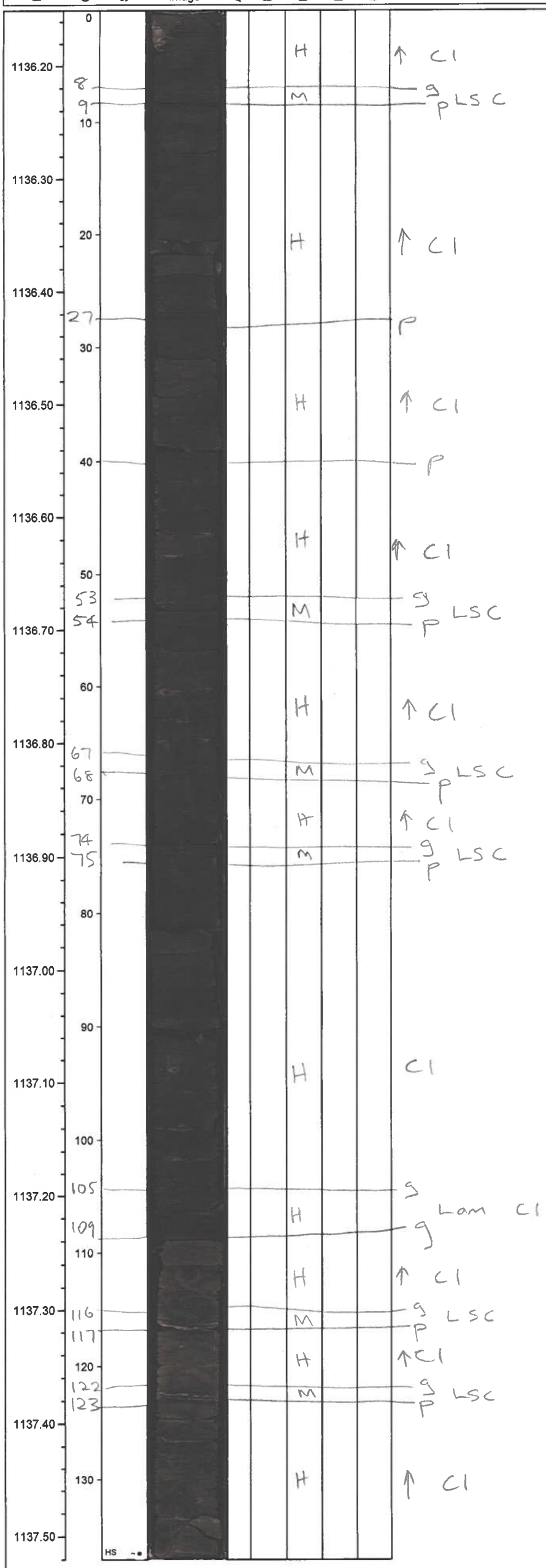
Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1134.70	0					N			Sandstone
	2								
						H			Cl 5Y 3/1
	6								g
1134.80	10					H			↑ Cl 10YR 3/2
	15								p
						H			↑ Cl
1134.90	20								
	22								p
						H			↑ Cl
1135.00	30								p
	31								
						H			↑ Cl
1135.10	40								p
						H			↑ Cl
	47								g
	48					L			p LSC
1135.20	50								
						H			↑ Cl
	58					M			g LSC
1135.30	60								p
						H			↑ Cl
	63								p
1135.40	70								
						H			↑ Cl
1135.50	80								
	84								g
	85					L			p LSC
1135.60	90								
						H			↑ Cl
1135.70	100								
	105					L			g LSC
	106								p
1135.80	110					H			↑ Cl
	119					L			g LSC
1135.90	120								p
						H			↑ Cl
	123								g LSC
	125					M			p
						H			Cl
	128								g
1136.00	130								
						L			Lam Cl 5Y 3/1
		CARB XRD PMAG MAD							
	136								p
1136.10	140					H			Cl

Hole 368X-U1503A-17R Section 2, Top of Section: 1136.15 m (CSF-A)

Sediment description

Logged by:

Date:



Hole 368X-U1503A-17R Section 3, Top of Section: 1137.52 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1137.52	0								P LSC
1137.62	10								10YR 3/2
	14					H			↑ Cl
									↑ change in colour
1137.72	20								
	21					M			g
									LSC 5Y 3/1
	25								g
1137.82	30								10YR 3/2
						H			Cl
1137.92	40								
1138.02	50								

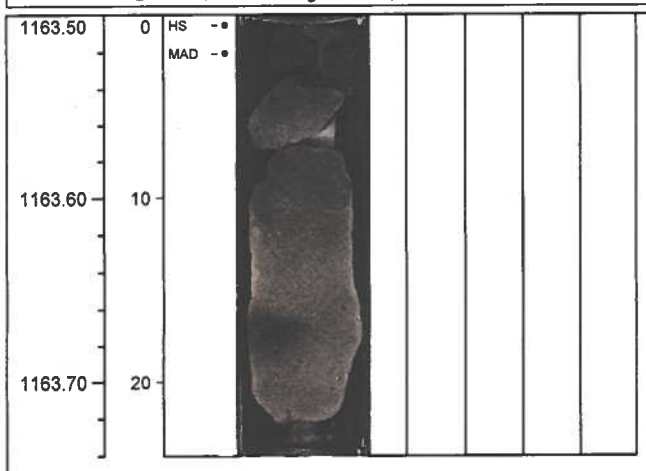
Hole 368X-U1503A-20R Section 1, Top of Section: 1163.5 m (CSF-A)

Sediment description

Dark greenish gray, well-sorted, massive sandstone.

Logged by:

Date:



As described

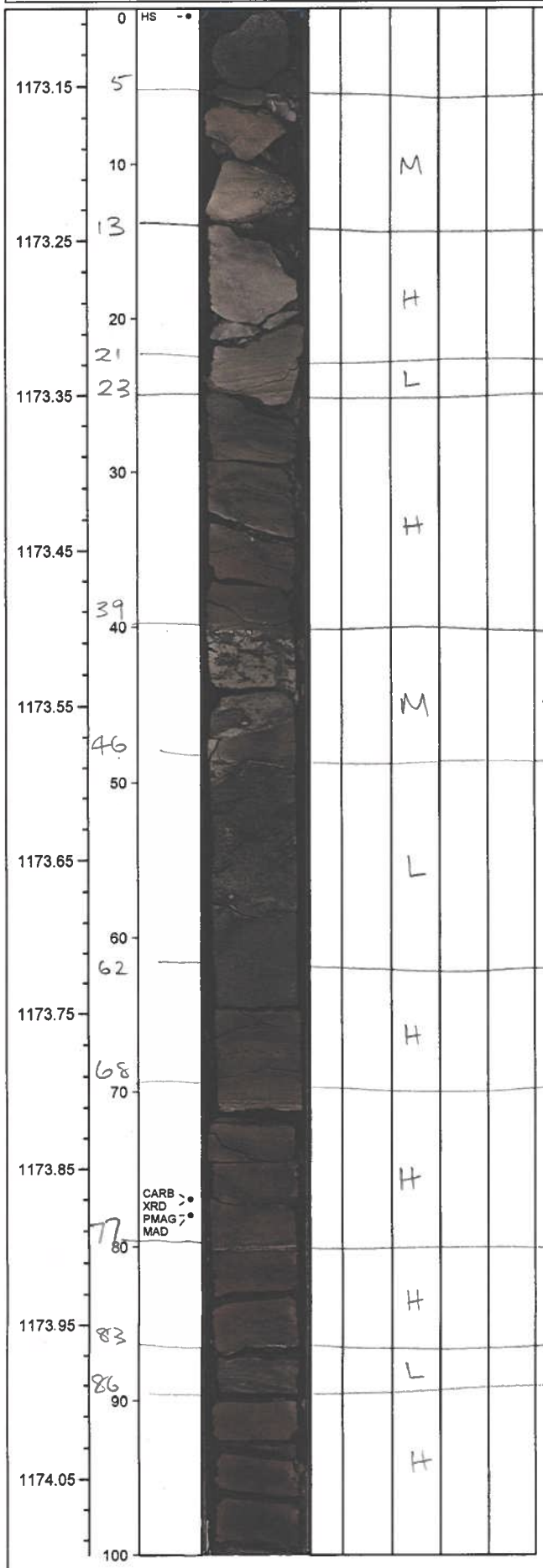
Hole 368X-U1503A-21R Section 1, Top of Section: 1173.1 m (CSF-A)

Sediment description

Logged by:

Date:

Very dark grayish brown, dark greenish gray and dark reddish brown claystone, dark greenish gray siltstone and dark greenish gray sandstone. The interval between 38 and 62 cm is a single fining upward bed with claystone intraclasts. Sandstone



Hole 368X-U1503A-22R Section 1, Top of Section: 1182.7 m (CSF-A)

Sediment description

Logged by:

Date:

Dark reddish gray claystone, white laminated clayey siltstone and dark greenish gray massive sandstone. Claystone beds and laminated clayey siltstone bases and fine upward.

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1182.70	0	HS							
1182.80	10					H			↑ Cl
1182.90	20	XRD CARB MAD PMAG							
	22								g
	24					L			p LCS 5Y 8/1
1183.00	30					H			↑ Cl
									p
	36					H			↑ Cl
									p
1183.10	40					H			↑ Cl
									p
	43					H			Cl
									g
	48					L			LCS
1183.20	50								irreg
						H			↑ Cl
	55								irreg
						M			↑ Silty cl.
1183.30	60								g
1183.40	70					N			Massive sandstone
1183.50	80								
1183.60	90								
	93								
1183.70	100	MAD							

Hole 368X-U1503A-23R Section 1, Top of Section: 1192.2 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1192.20	0					H			Cl
	5								
1192.30	10								Sandstone massive well sorted
1192.40	20								
	24					H			↑ Cl
	27					L			g Lam SC
	29								p
1192.50	30					H			↑ Cl
	39								p
1192.60	40					H			↑ Cl
	46								g
	48					L			p LSC
1192.70	50					H			↑ Cl
	58								g
						M			
1192.80	60								p LCS
1192.90	70					H			↑ Cl
	78								g 78-79 C
1193.00	80					L			LCS
	83								p
1193.10	90					H			↑ Cl
	96								g
	99					L			LCS p
1193.20	100					H			↑ Cl
	105								
1193.30	110					H			↑ Cl
1193.40	120								
	123								p
1193.50	130					H			↑ Cl
	137								p
1193.60	140					L			LCS

Hole 368X-U1503A-23R Section 2, Top of Section: 1193.61 m (CSF-A)

Sediment description

Logged by:

Date:

Dark greenish gray, dark reddish brown and dark grayish brown clayey and silty claystone, light gray laminated siltstone and dark greenish gray sandstone. Claystone beds fine upward from laminated silty claystone and clayey siltstone bases. There is a massive, well sorted sandstone in Section 1.

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1193.70	0					H			↑ Cl
	10								
	13								g LCS 5Y 7/1
	16					L			p
	18					H			↑ Cl
1193.80	20					M			g p LSC
						H			↑ Cl
	28								p
1193.90	29					M			p SC
	30					M			↑ Cl
	34								p
1194.00	40								
1194.10	50					H			Cl
1194.20	60								p
						L			Lam sandy silt with claystone intraclasts
	65								g Cl
						H			
	68								g
1194.30	70					L			Sandy siltstone convolute lamination
	74								Irregular Load casts
						M			Cl
	78								irreg
1194.40	80					L			g LCS
	82					L			erosional Fine sandstone with claystone intraclasts
	84					M			↑ g Silty clastone
1194.50	90								
						H			Cl
1194.60	100	CARB PMAG MAD							p
						M			Sandstone
	102								irreg
						M			Lam CS with sandstone irregular burrow?
	106								p
1194.70	110					M			Claystone with sandstone sandstone dyke
	112								g
						L			
	115								irreg Sandy siltstone
						H			Cl
1194.80	120								
		HS				M			Sandstone with claystone intraclasts.

Hole 368X-U1503A-24R Section 1, Top of Section: 1201.8 m (CSF-A)

Sediment description

Very dark gray, brown, and reddish brown laminated claystone and silty claystone, light gray laminated clayey siltstone and dark greenish gray and greenish gray sandstone.

Logged by:

Date:

Claystone beds fine upward from laminated silty claystone and clayey siltstone bases. Sandstone in Section 1, 43–46 cm has claystone intraclasts.

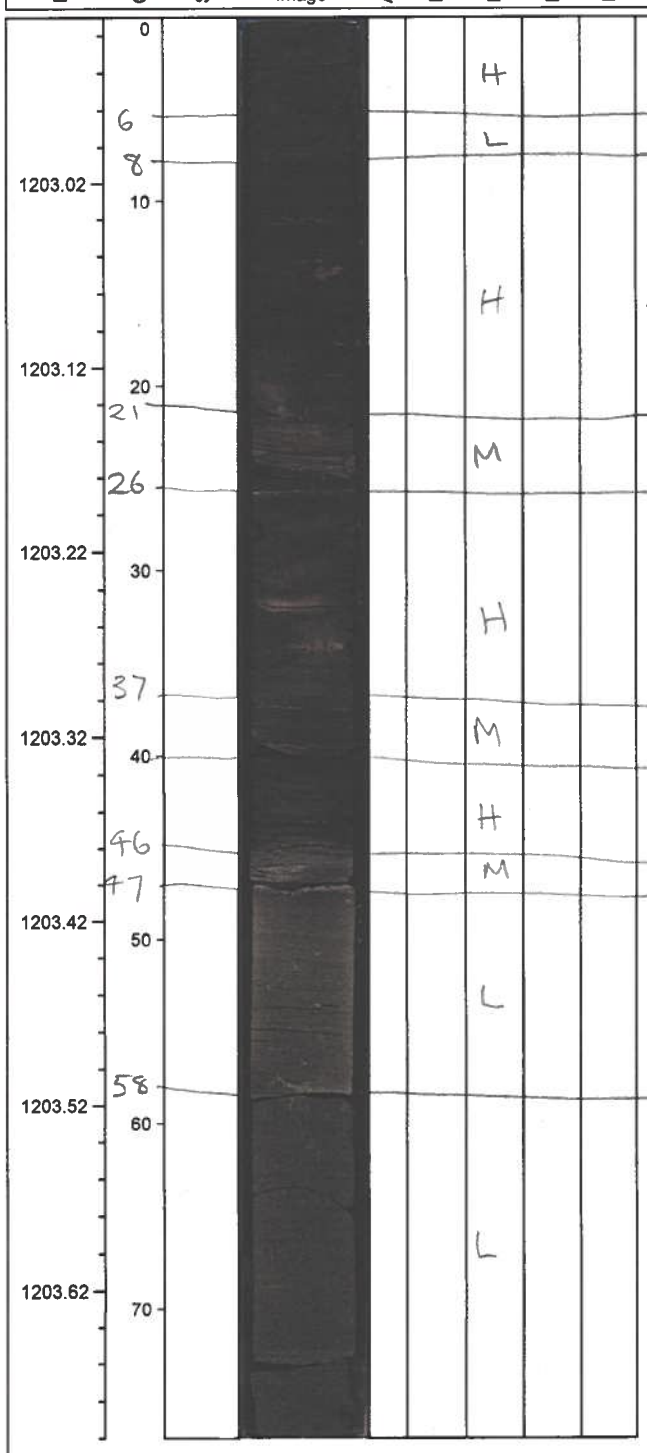
Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1201.80	0					H			↑ Cl
	6					N			g LSC
	9								irreg
1201.90	10					H			↑ Cl
	14					N			g LSC
	15								p
1202.00	20					H			↑ Cl
	22								Irreg
	25					N			↑ LSC
						H			↑ Cl
1202.10	30								p
						H			↑ Cl
	36								g LSC
						L			
1202.20	40								p
						H			Cl
	43								p
						L			Sandstone with claystone intraclasts
	46								Irreg
						H			Cl
1202.30	50								
						L			Sandstone massive
	58								
1202.40	60					H			↑ Cl
	61					M			g LSC
	62								p
						H			↑ Cl
	68								g
	69					M			p LCS
1202.50	70								
						H			↑ Cl
	77								g
	79					M			p LCS C 2.5Y 7/1 Light gray
1202.60	80								
		XRD PMAG CARB MAD				H			↑ Cl
1202.70	90								g
	91					M			LSC C
	92								p
	94					H			↑ Cl
1202.80	100								
						H			↑ Cl
	105								
1202.90	110	HS				H			Cl

Hole 368X-U1503A-24R Section 2, Top of Section: 1202.93 m (CSF-A)

Sediment description

Logged by:

Date:



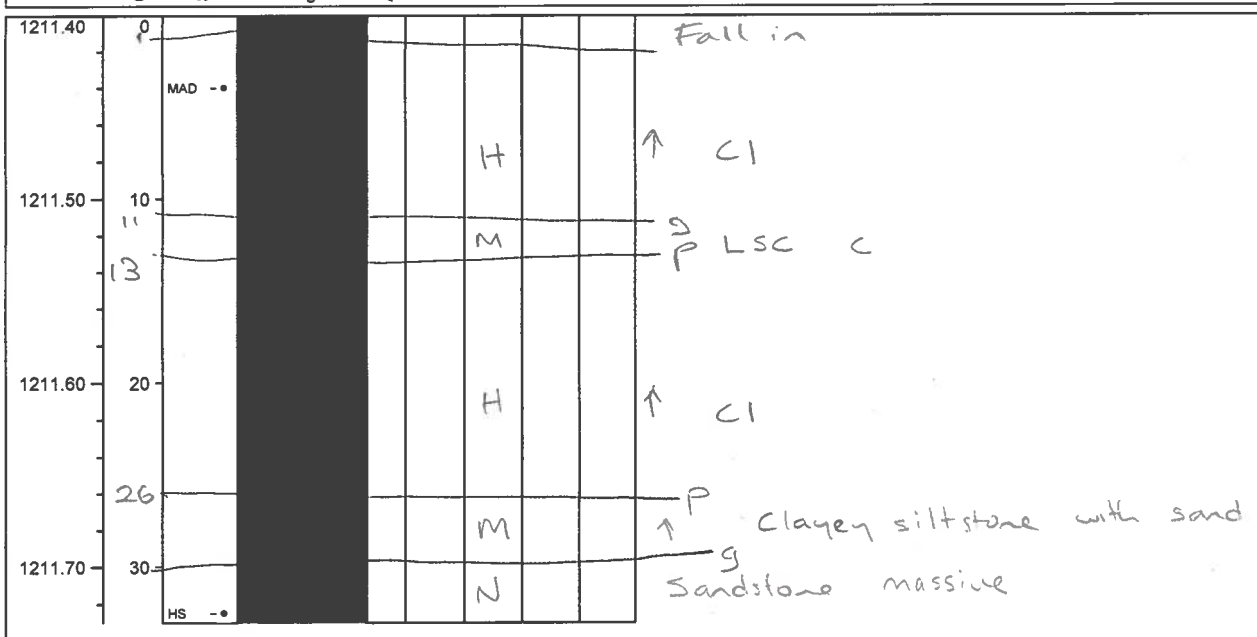
Hole 368X-U1503A-25R Section 1, Top of Section: 1211.4 m (CSF-A)

Sediment description

Very dark grayish brown claystone and silty claystone and dark greenish gray clayey siltstone with sand and sandstone. Beds fine upward.

Logged by:

Date:



Hole 368X-U1503A-26R Section 1, Top of Section: 1221.0 m (CSF-A)

Sediment description

Dark grayish brown and dark olive gray claystone, light gray and light brownish gray clayey siltstone, and greenish gray sandstone. Beds fine upward from laminated clayey siltstone to claystone.

Logged by:

Date:

Depth CSF-A (m) | Core length (cm) | Shipboard samples | Core image | Ash | Bottom contact | Bioturbation intensity | Disturbance type | Disturbance intensity | Comments

1221.00 — 0

3 cm claystone intraclast

1221.10 — 10

N ↑ Sandstone Av g'size medium sand, max coarse sand well sorted

18

1221.20 — 20

N Sandstone Av g'size coarse sand, max c. sand well sorted.

26

1221.30 — 30

H ↑ Cl

31 g LSC

M

36 g

L LCS 2.5Y 6/2 Light brownish gray

1221.40 — 40

P

H ↑ Cl

1221.50 — 50

54 g

M LCS C 2.5Y 6/2

1221.60 — 60

61 P

MAD
CARB
XRD
PMAG

H ↑ Cl

1221.70 — 70

75 g

M LCS C 2.5Y 6/2

78 P

79 H g Cl ——— 5Y 3/2 SS 80 cm

1221.80 — 80

L

82 P LCS 5Y 7/2

1221.90 — 90

H ↑ Cl

1222.00 — 100

105 g LCS

106 L P

109 H Cl — 5Y 3/2 Dark olive gray

1222.10 — 110

g

M LCS with sand 5Y 7/2

114 P

H Cl

118 g

1222.20 — 120

M LCS 5Y 7/2

121

H Cl

HS

Smear Slide 80cm

Sand	Silt	Clay	Silic.	Carb	QFL	Clay	Calcite	Nanno	Foram	Glauco
—	60	40	98	2	ARRC		TR	TR	—	Tr

Clayey siltstone

Hole 368X-U1503A-27R Section 1, Top of Section: 1230.6 m (CSF-A)

Sediment description

Logged by:

Date:

Reddish brown and dark grayish brown claystone, olive gray laminated silty claystone and clayey siltstone with sand, and greenish gray sandstone. Beds fine upward from laminated silty claystone and clayey siltstone with sand bases to claystone.

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1230.65	0								
	10					H			↑ Cl
1230.75	17								P
	20					H			↑ Cl
	21								P
1230.85						H			↑ Cl
	30	XRD CARB MAD							
	32	~~PMAG~~							P
						H			↑ LSC Zoophycos
1230.95	35					H			Cl P
	36					M			CS
	38								irreg
	40					H			Cl
	42								g
1231.05						L			↑ LCS with sand intraclasts 5Y 5/2 Olive gray
	48								P
	50					H			Cl
1231.15	54								P
						H			Cl
	59								P
	60								
1231.25						M			LCS with sand Claystone intraclasts 5Y 5/2
	70								
	71								g
1231.35									Sandstone.
	80								
1231.45		HS				L			
	90								Sandstone 83cm intraclast
1231.55									
	100								
1231.65									

Hole 368X-U1503A-28R Section 1, Top of Section: 1240.1 m (CSF-A)

Sediment description

Logged by:

Date:

(5YR) Reddish brown, dark grayish brown and dark greenish gray claystone and silty claystone, light gray and light olive gray clayey siltstone and greenish gray sandstone. Beds fine upward from clayey siltstone, silty claystone and fine sandstone bases to claystone. Sandstone intervals in Section 2 have intraclasts

Depth CSF-A (m) | Core length (cm) | Shipboard samples | Core image | Ash | Bottom contact | Bioturbation intensity | Disturbance type | Disturbance intensity | Comments

1240.10 0
1240.20 10
1240.30 19 20 22
1240.40 29 30
1240.50 35 38 40
1240.60 44 50 53 54 58
1240.70 60 63
1240.80 70 71 74
1240.90 79 80 84
1241.00 89 90 93 95 98
1241.10 100
1241.20 108 110
1241.30 120 121

N — Sandstone
H — ↑ Cl
g
H — ↑ Cl
p LCS
M
p
H — ↑ Cl
g LCS
L
p
H — Cl ↑
g
M — p LSC
H — Cl
g
M — irreg LCS
H — Cl
g
M — p Silty claystone with claystone intraclasts
N — Sandstone
H — ↑ Cl
p
L — p LCS 10YR 7/2 Light gray
H — ↑ Cl
g
M — LCS 5Y 6/2 Light olive gray
p
H — ↑ Cl
L — LSC
p
H — Cl
g LCS
M
H — ↑ Cl
p
H — ↑ Cl
g
M — LSC

Hole 368X-U1503A-28R Section 2, Top of Section: 1241.34 m (CSF-A)

Logged by:

Date:

Sediment description

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1241.40	0	XRD CARB PMAG MAD							
	10					H			↑ Cl
1241.50	20								
	22					L			g L C S
1241.60	26					M			P Clayey sandstone
	28								P Cl with silt
	30					H			
	32								irreg
	35					H			Cl irreg
1241.70	37					M			P C S
	40					M			C S with sand
	43					H			P Cl
1241.80	45								P
	50								
1241.90	60								↑ Sandstone with claystone intraclasts
1242.00	70								
	73								P
1242.10	78					H			↑ Cl
	80								g
	85					M			L S C C
1242.20	89					H			P ↑ Cl
	90					M			g
	91								P L S C
	95					H			↑ Cl
1242.30	99					M			g Sandstone with clay Av g'size fn sand Max med sand
	100								g
1242.40	110								Intraclasts
1242.50	120								↑ Sandstone Av g'size fn sand Max coarse sand
	124								g
1242.60	130								L Sandstone with clay
	131								P
	137					M			L C S P
1242.70	140					L			Sandstone with claystone intraclasts
1242.80		HS							

Hole 368X-U1503A-30R Section 1, Top of Section: 1259.3 m (CSF-A)

Sediment description

Logged by:

Date:

Dark grayish brown claystone and laminated silty claystone, light gray and white laminated clayey siltstone and greenish gray sandstone. Beds fine upward from laminated silty claystone and clayey siltstone bases to claystone.

Depth CSF-A (m) | Core length (cm) | Shipboard samples | Core image | Ash | Bottom contact | Bioturbation intensity | Disturbance type | Disturbance intensity | Comments

1259.35
0
10
1259.45
18
20
22
23
1259.55
30
32
1259.65
37
40
1259.75
43
50
52
1259.85
55
60
63
1259.95
66
70
71
72
1260.05
80
84
1260.15
90
1260.25
97
100
101

PMAG
MAD
XRD
CARB
HS

N
Sandstone
H
Cl
M
g
P LSC
H
↑ Cl
g
M
LCS C 2.5Y 7/1 Light gray
H
↑ Cl
g
M
LSC C
M
g
P LCS 2.5Y 8/1 white
H
↑ Cl
g
M
Lam Cl
H
↑ Cl
g
M
LCS
H
↑ Cl
H
↑ Cl
L
Lam Cl
L
LCS

Hole 368X-U1503A-31R Section 1, Top of Section: 1268.9 m (CSF-A)

Sediment description

Logged by:

Date:

Dark grayish brown and very dark gray claystone and silty claystone grayish brown and gray laminated clayey siltstone, and greenish gray sandstone. Beds fine upward from laminated silty claystone and clayey siltstone bases to claystone.

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1268.90	0							Sandstone
	8							
1269.00	10				H			↑ Cl
	13							g
					M			LCS C 2.5Y 5/2 Grayish brown
	17							P
					H			Cl
1269.10	20				L			g
	21							P LSC 2.5Y 5/2
					H			↑ Cl
	29							g
1269.20	30				M			LSC C 2.5Y 5/2
	31							P
					H			↑ Cl
1269.30	40							
	45							g
					L			LSC
	49							P
1269.40	50							
					H			↑ Cl
1269.50	60							
	67							g
					M			LSC C
1269.60	70				H			Cl P
	71							g
					M			clayey sandstone Av g'size fn sand max med sand
	75							irreg
1269.70	80							
					H			↑ Cl
1269.80	90							g
					L			LSC
	93				H			Cl P 5Y 3/1
	95							g
1269.90	100				M			LSC
	103							P
	105				H			Cl
	106				M			g LCS
	109				H			P ← Cl with silt
1270.00	110							irreg
	112				H			Cl
					L			g LSC

5Y 3/1 for claystone
Very dark gray
and 5Y 6/1 for LCS
Gray

Hole 368X-U1503A-31R Section 2, Top of Section: 1270.07 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1270.10	0					M			LCS
	3								p
	5					L			p LCS] 5Y 3/1
	10	MAD PMAG XRD CARB				H			↑ C1
1270.20	14								g
	17					M			g LSC
	19					M			p LCS C
	20								
1270.30	28					H			↑ C1
	30								g
1270.40	34					M			LSC
	35					N			g LCS
	40								p
1270.50	48					H			↑ C1
	50								g
1270.60	53					M			LSC
	60								p
1270.70	64					H			↑ C1
	69								g
	70					M			Lam C1
1270.80	78								p
	80					H			↑C1
	82								
1270.90	87					M			Lam C1
	90								p
1271.00	100					H			↑C1
1271.10	103					L			g LSC
	105								p
	108					H			↑ C1
	110								g
1271.20						M			LSC] 5Y 3/1

Hole 368X-U1503A-31R Section 3, Top of Section: 1271.26 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1271.34	0	HS							
	10					H			↑ Cl
	14							g	
	16					M		p	LSC C
1271.44	20					H			↑ Cl
	22							g	
	23					L		p	LCS
1271.54	30					H			↑ Cl
	36							g	
1271.64	39					M		p	LSC C
	40								
1271.74	50					H			↑ Claystone with fn sand
	51							irreg	
	55					H		p	Cl
1271.84	60					H			Cl
1271.94									

Hole 368X-U1503A-32R Section CC, Top of Section: 1278.5 m (CSF-A)

Sediment description

Greenish gray massive sandstone

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1278.50	0	HS							Sandstone Massive

Hole 368X-U1503A-33R Section CC, Top of Section: 1288.1 m (CSF-A)

Sediment description

Greenish gray massive sandstone.

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
	0	HS				N			Sandstone massive

Hole 368X-U1503A-34R Section CC, Top of Section: 1297.6 m (CSF-A)

Sediment description

Greenish gray massive sandstone

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
	0	HS				N			Sandstone massive

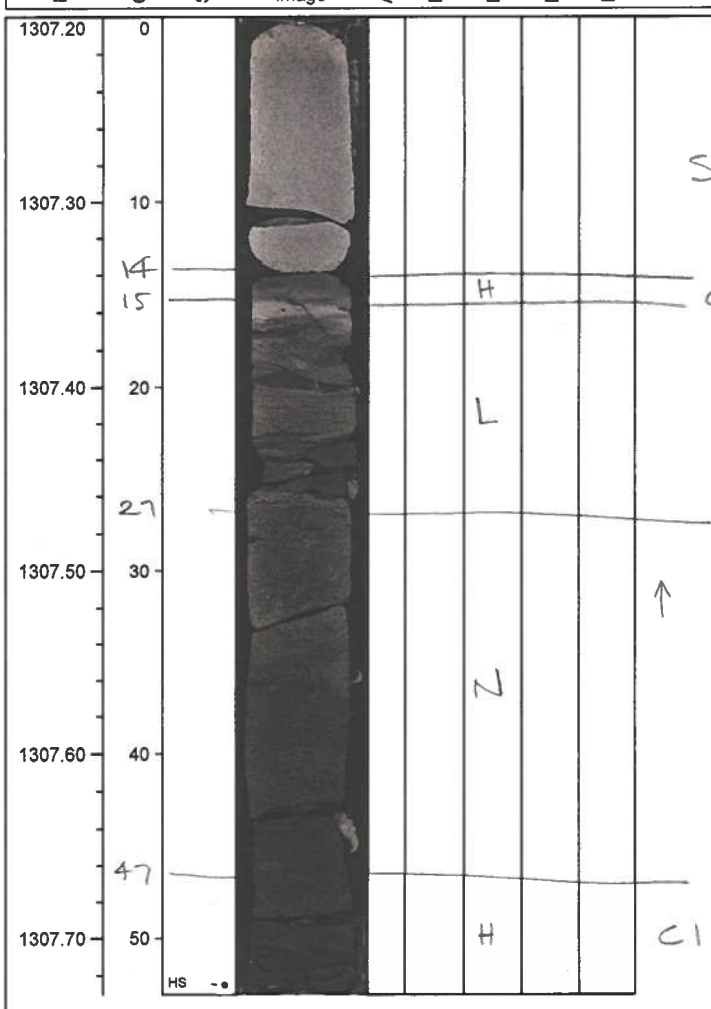
Hole 368X-U1503A-35R Section 1, Top of Section: 1307.2 m (CSF-A)

Sediment description

Greenish gray sandstone with dark greenish gray claystone intraclasts, and very dark gray claystone.

Logged by:

Date:



Hole 368X-U1503A-35R Section CC, Top of Section: 1307.73 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
	0	PAL							

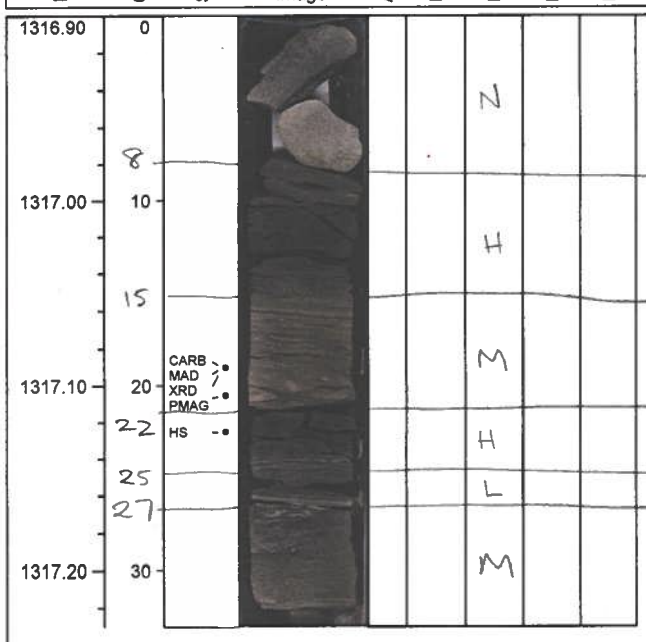
Hole 368X-U1503A-36R Section 1, Top of Section: 1316.9 m (CSF-A)

Sediment description

Dark grayish brown claystone, gray laminated clayey siltstone and greenish gray sandstone. Beds fine upward from laminated clayey siltstone bases to claystone.

Logged by:

Date:



Hole 368X-U1503A-37R Section CC, Top of Section: 1326.5 m (CSF-A)

Sediment description

Greenish gray massive sandstone

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1326.50	0					N			Sandstone massive
1326.60	10	HS							

Hole 368X-U1503A-39R Section CC, Top of Section: 1345.7 m (CSF-A)

Sediment description

Dark grayish brown claystone and greenish gray massive sandstone

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1345.70	0	HS				H			C1
	4								
						N			Sandstone massive
1345.80	10								

Hole 368X-U1503A-40R Section 1, Top of Section: 1355.3 m (CSF-A)

Sediment description

Very dark grayish brown, dark reddish brown, dark olive green and light greenish grey claystone and laminated silty claystone, light gray laminated clayey siltstone, and greenish gray sandstone with claystone intraclasts up to pebble size

Logged by:

Date:

Comments

Beds fine upward from laminated clayey siltstone and silty claystone bases to claystone. The top of some beds is dark olive gray nannofossil-rich claystone.

5YR 3/3

10YR 3/2

Hole 368X-U1503A-40R Section 2, Top of Section: 1356.43 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m) | Core length (cm) | Shipboard samples | Core image | Ash | Bottom contact | Bioturbation intensity | Disturbance type | Disturbance intensity | Comments

1356.50
0
8 — P — L — LSC C
10 — H — Cl
13 — g
1356.60
M — LSC C
20
21 — P
1356.70
M — SC
30
1356.80
37 — g
40
1356.90
50 — H — Cl
1357.00
60
66
67 — L — p — LSC
1357.10
70
1357.20
80
1357.30
90 — Cl
1357.40
100
XRD
PMAG
MAD
CARB
1357.50
108 — g
110 — LCS
1357.60
M
120
121
124 — L — g — Lam siltstone
Lam Fn SS Av g'size fn sand max m sand
1357.70
129 — N — g
130 — Sandstone Av g'size med sand max c. sand intraclasts
N
134 — P
1357.80
H — Cl
140

Hole 368X-U1503A-40R Section 3, Top of Section: 1357.84 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m) | Core length (cm) | Shipboard samples | Core image | Ash | Bottom contact | Bicturbation intensity | Disturbance type | Disturbance intensity | Comments

1357.90
0
8
10
1358.00
20
1358.10
30
1358.20
40
1358.30
48
50
52
1358.40
56
58
60
1358.50
68
69
70
75
1358.60
77
80
1358.70
90
1358.80
100
101
1358.90
108
109
110
1359.00
118
120
1359.10
130
132
133
1359.20
134
140
1359.30

M LSC

H C1

N Sandstone Av g'size mcds Max ~~coarse~~ pebble Intraclasts

M LCS C

g

H C1

N Sandstone massive

H C1

g

H g Nanno-rich claystone (N-R C1)

g

d

irregular

H

g N-R C1

↑

H C1

g

M LSC

P N-R C1

J

H ↑ C1

P

H C1

g LCS 2.5 Y 7/1 Light gray

L P

g N-R C1

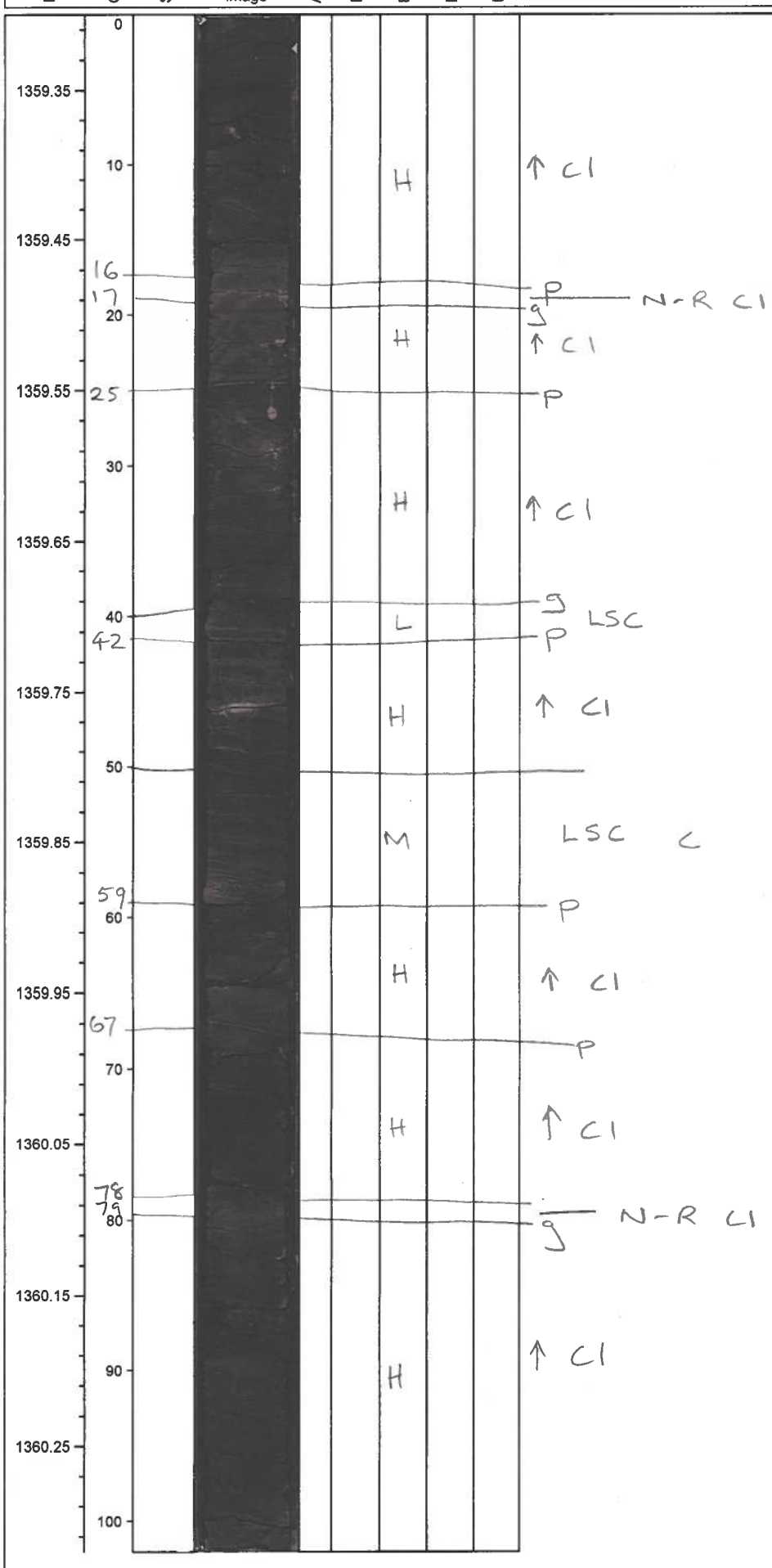
H C1

Hole 368X-U1503A-40R Section 4, Top of Section: 1359.3 m (CSF-A)

Sediment description

Logged by:

Date:

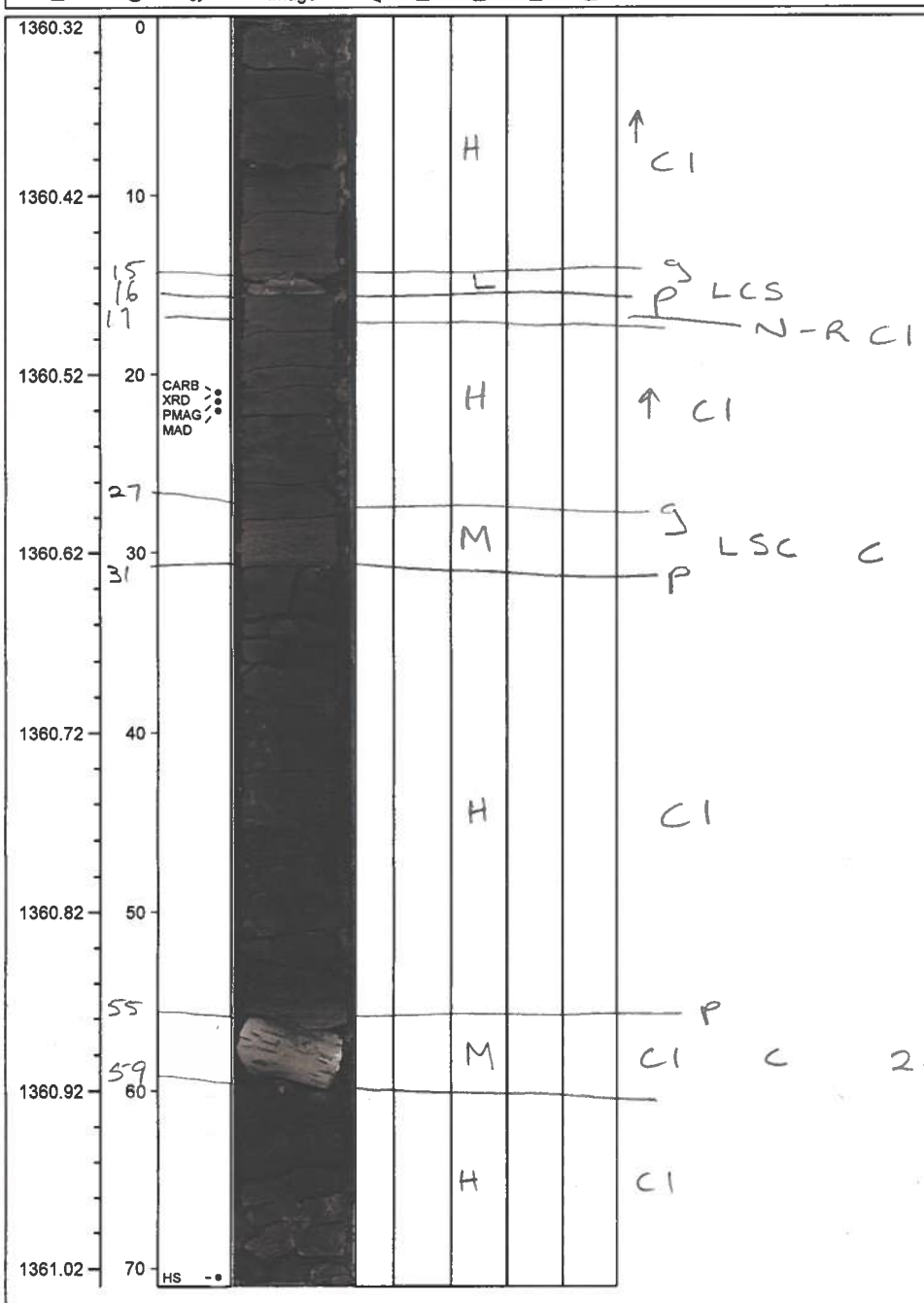


Hole 368X-U1503A-40R Section 5, Top of Section: 1360.32 m (CSF-A)

Sediment description

Logged by:

Date:

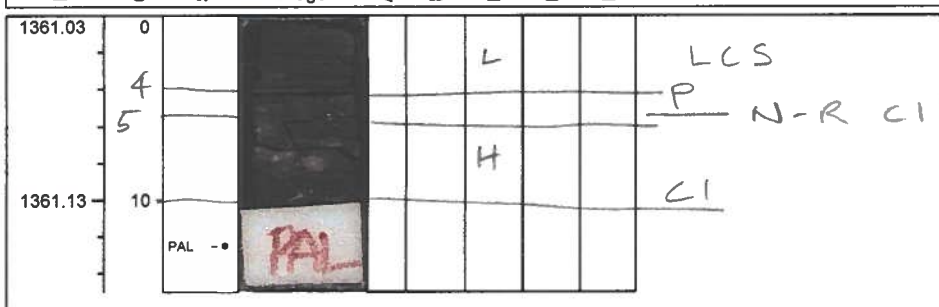


Hole 368X-U1503A-40R Section CC, Top of Section: 1361.03 m (CSF-A)

Sediment description

Logged by:

Date:



Hole 368X-U1503A-41R Section 1, Top of Section: 1364.9 m (CSF-A)

Sediment description

Logged by:

Date:

As for Core 40R but add Greyish brown nannofossil ooze in Section 1, 118–128, Section 4, 122–124 cm, and Section 5, 35–36 cm.

Depth CSF-A (m) | Core length (cm) | Shipboard samples | Core image | Ash | Bottom contact | Bioturbation intensity | Disturbance type | Disturbance intensity | Comments

1364.90 — 0
1365.00 — 10
16
1365.10 — 20
25
26
1365.20 — 30
35
37
38
1365.30 — 40
42
48
1365.40 — 50
54
55
1365.50 — 60
1365.60 — 70
1365.70 — 80
89
1365.80 — 90
91
1365.90 — 100
106
1366.00 — 110
111
113
118
1366.10 — 120
128
1366.20 — 130
138
1366.30 — 140

M — Cl 10YR 3/1
H — Nanno-rich claystone (N-R Cl) Gley 4/10Y
g
H — ↑ Cl
Note the Cl is 10YR 3/1
N-R Cl is Gley 4/10Y
H — g — N-R Cl
H — ↑ Cl
M — g — LSC
M — p — N-R Cl
H — g
H — ↑ Cl
M — g — LSC
M — g — LCS
H — p — N-R Cl
H — g
H — ↑ Cl
M — g — LSC
L — g — LCS
p
H — ↑ Cl
M — g — LSC
H — P — Nanno-r Cl
g
H — ↑ Cl
M — g
↑ Nannofossil ~~ooze~~ chalk
2.5Y 5/2 Greyish brown 5S 127cm
H — ↑ Cl
r
H — ↑ Cl

Smear Slide 127 cm

Sand	Silt	Clay	Silic	Carb	QFL	Clay	Carb	Nano	Foram	Glauc
—	—	100	10	90	TR TR	R	·	D		

Nannofossil chalk

Hole 368X-U1503A-41R Section 2, Top of Section: 1366.34 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1366.40	0								
	10					H			Cl
1366.50	15								g
	20					L			LCS
	22								P — N-R Cl
	23					H			
1366.60	30								↑ Cl
1366.70						H			
	40								
	45								g
1366.80	50								
						M			
1366.90									LSC
	60								
	63								P
						H			↑ N-R Cl
1367.00	67								g
						H			↑Cl
	70								
	73								g LSC
	76					M			P
1367.10						H			N-R Cl
	80								
		CARB PMAG MAD							↑
1367.20						H			Cl
	89								g
	90								LSC
						M			
	94								
1367.30						H			N-R Cl
	98								g
	100								
1367.40									
	110								
									↑
1367.50						H			Cl
	120								
	123								P
						H			N-R Cl
	125								g
1367.60									
	130					H			Cl ↑
1367.70	138								P
	140								↑
						H			Cl
1367.80	147								
						M			LSC
	150								

Hole 368X-U1503A-41R Section 3, Top of Section: 1367.85 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
	0					H			C1 10YR 3/1
	3								
1367.90	7					H			N-RC1 Gley 4/10Y
									g
	10					H			↑ C1 10YR 3/1
1368.00	17								g
	20					M			LSC 26-28 cm convolute lamination
1368.10									
	30					H			p N-RC1
	31								g
1368.20						H			↑ C1
	40								
1368.30	46								g
	50					M			LSC
1368.40									
	59					H			p
	60								g N-R C1
1368.50									
	70					H			↑ C1
1368.60									
	80								
1368.70	85								p
	90					H			C1 Gley 4/10Y
1368.80									
	97								g
	100					H			C1
	102								p 10YR 3/1
1368.90						H			C1 SS 107 cm
	108								g
	110								
1369.00									
	120								
1369.10						H			C1
	130								
1369.20									
	140								
1369.30									
	150								

Smear Slide	Sand	Silt	Clay	107cm Silic	Carb	Q F L Clay Calc	N	F	Zeolite	Organics	Claystone
	—	5	95	99	1	CR - D	TR	—	—	TR	TR

Hole 368X-U1503A-41R Section 4, Top of Section: 1369.35 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1369.40	0					H			C1
	10								g
1369.50									
	20	MAD XRD PMAG							
1369.60									
	30					M			LCS
1369.70									
	40								
1369.80									
	50								
1369.90									
	60								
	63								g
1370.00									
	70								
1370.10						M			LCS
	80								
1370.20									
	88								P
	90								
1370.30									
	100								↑
1370.40						H			C1
	110								
1370.50									
	118								g
	120					L			LSC
	122								
						H			Nannofossil ooze
1370.60	124								↑
						H			C1
	130								
	134								g
1370.70		HS				M			LSC

Hole 368X-U1503A-41R Section 5, Top of Section: 1370.72 m (CSF-A)

Sediment description

Logged by:

Date:

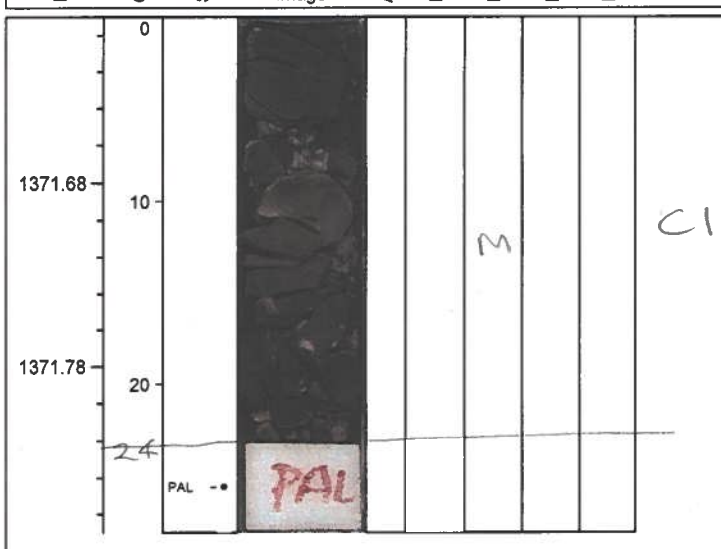
Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1370.72	0					L			LSC
	2								P
						H			Cl
1370.82	10								
	12								g
						M			LSC
	18								P
1370.92	20								
						H			↑ Cl
1371.02	30								g
	31					L			LCS
	35								P
	36								Nannofossil ooze
									g
1371.12	40					H			Cl
	49								g
1371.22	50					M			LSC
	52								P
						H			↑ Cl with nannofossils
	57								P
1371.32	60								
						H			Cl
1371.42	70								
	79								g
1371.52	80					H			Cl
	83								g
						M			LSC

Hole 368X-U1503A-41R Section CC, Top of Section: 1371.59 m (CSF-A)

Sediment description

Logged by:

Date:



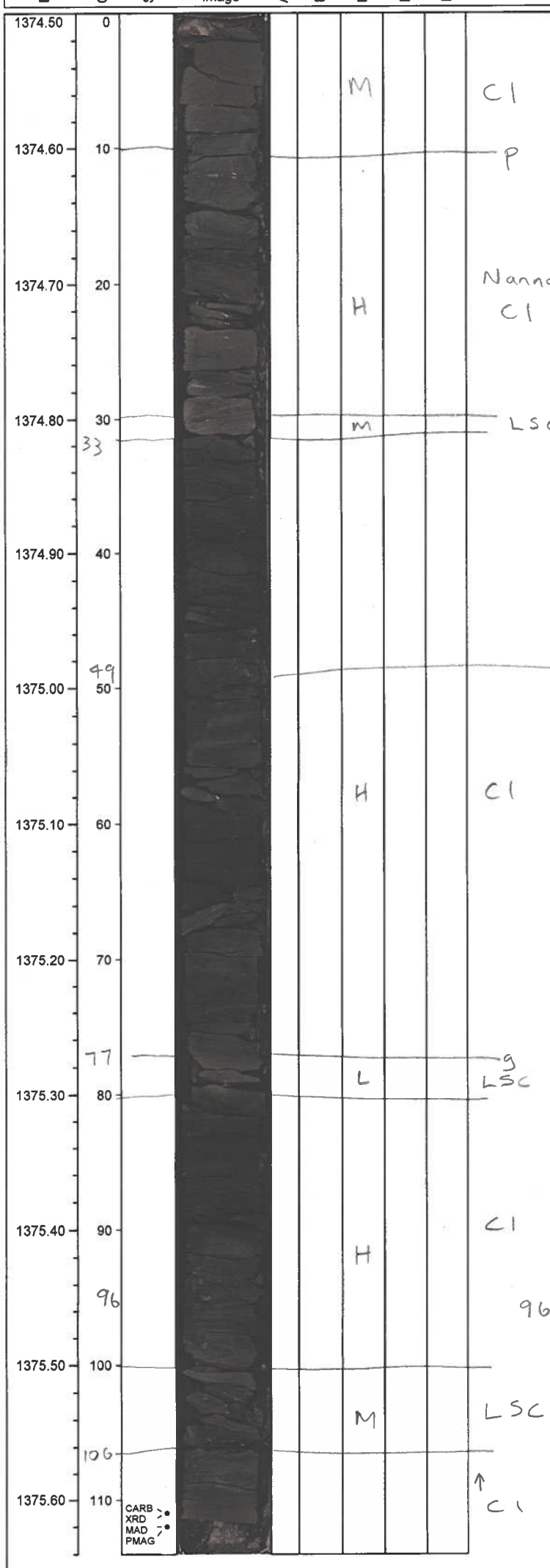
Hole 368X-U1503A-42R Section 1, Top of Section: 1374.5 m (CSF-A)

Sediment description

As for 40R. Except for nannofossil-rich claystone.

Logged by:

Date:



All core is fractured

Smear Slide 28cm

Sand	Silt	Clay	Silic.	Carb	QFL	clay	Carb	N	F	Zeolite
—	10	90	50	50	RTR-	A	TR	A	TR	TR

Nanno-rich clay

Hole 368X-U1503A-42R Section 2, Top of Section: 1375.64 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1375.64	0					H			Cl
1375.74	10								
	12								g
						M			LSC
	19								P
1375.84	20					M			↑ Sandstone with clay Intraclasts
	25					M			Cl Irreg
	26								
	27					L			P Sandstone
1375.94	30								
						H			Cl
1376.04	40								
	46								
						M			LSC
1376.14	50								
	57								
									↑
1376.24	60								Sandstone
1376.34	70								
		HS							

Hole 368X-U1503A-43R Section 1, Top of Section: 1384.1 m (CSF-A)

Sediment description

Logged by:

Date:

Very dark greenish gray claystone and laminated silty claystone, greenish gray laminated clayey siltstone, and greenish gray and dark greenish grey sandstone. Dark greenish gray sandstone in section 1, 95–123 cm has abundant claystone intraclasts.

Depth CSF-A (m) | Core length (cm) | Shipboard samples | Core image | Ash | Bottom contact | Bioturbation intensity | Disturbance type | Disturbance intensity | Comments

1384.10 — 0

1384.20 — 10

Sandstone

N

16 — irreg — Cl

17

GLEY 5/10Y Greenish gray

Sandstone lamination av g'size fn sand max medium sand

N

1384.30 — 20

23

1384.40 — 30

H

Cl

1384.50 — 40 — PMAG CARB MAD

44

M

LCS

46

GLEY 6/10Y Greenish gray

1384.60 — 50

H

Cl

57

1384.70 — 60

Sandstone

1384.80 — 70

76

1384.90 — 80

↑

Sandstone Laminated

claystone intraclast

1385.00 — 90

95 — g

1385.10 — 100

L

Sandstone 50% Claystone 50%

Claystone intraclasts

1385.20 — 110

1385.30 — 120

123

H

Cl

125

126

m

LSc

1385.40 — 130

H

Cl

Core is fractured in claystone.

Hole 368X-U1503A-43R Section 2, Top of Section: 1385.44 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1385.50	0	HS MAD							
	10								
1385.60	20								
1385.70	30								
1385.80	40					N			Sandstone
1385.90	50								
1386.00	60								
	64								
1386.10						N			Sandstone 50% Claystone 50% Intraclasts
	69								
	70					L			L S C
1386.20	77								g
	80								
1386.30						H			C l
	90								
1386.40									
	100								

Hole 368X-U1503A-43R Section CC, Top of Section: 1386.45 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1386.45	0					H			C1
1386.55	10								

Hole 368X-U1503A-44R Section 1, Top of Section: 1393.7 m (CSF-A)

Sediment description

Greenish gray massive sandstone

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1393.70	0								Sandstone
1393.80	10	HS							

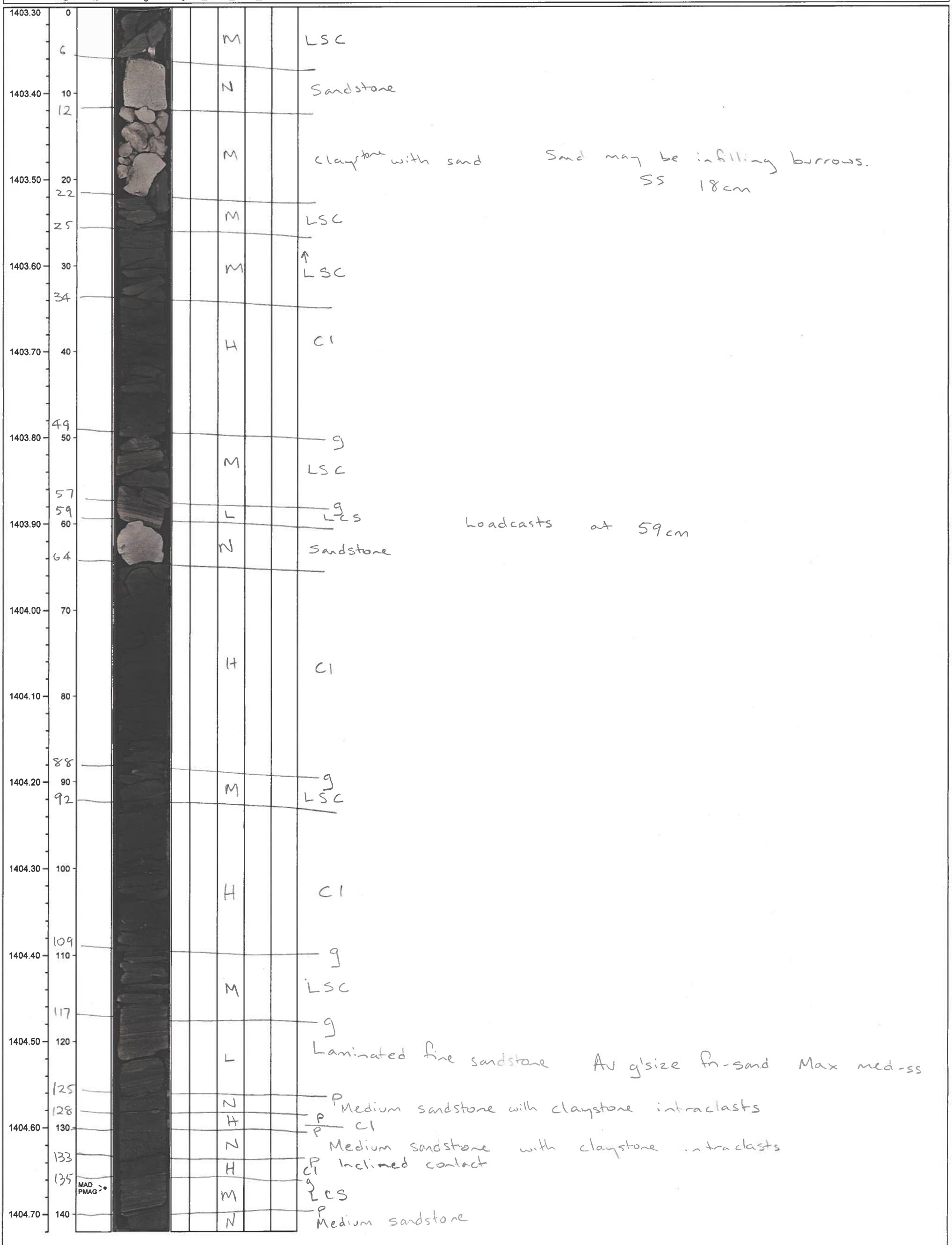
Hole 368X-U1503A-45R Section 1, Top of Section: 1403.3 m (CSF-A)

Sediment description

Very dark greenish gray and greenish gray claystone and laminated silty claystone, greenish gray laminated clayey silt and sandstone.

Logged by:

Date:



Fractured H - M

Claystone

Smear Slide			18cm									
Sand	Silt	Clay	Silic	Carb	Q	F	L	Clay	Calc	N	F	Mica	Zeolite
—	TR	100	100	—	R	TR	—	D	TR	—	—	TR	TR

Hole 368X-U1503A-45R Section 2, Top of Section: 1404.72 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1404.72	0	HS				H			C1
1404.82	10					M			LS C
	13								
						H			C1
1404.92	20								
	22					L			LSC
	29								
1405.02	30					L			LSC
1405.12	40								
	44								
1405.22	50					H			CL
1405.32	60								

Hole 368X-U1503A-46R Section 1, Top of Section: 1412.9 m (CSF-A)

Sediment description

Logged by:

Date:

Greenish gray, dark greenish gray and black claystone and laminated silty claystone, greenish gray and dark greenish gray laminated clayey siltstone and siltstone, greenish gray sandstone, and light gray nannofossil ooze.

Depth CSF-A (m) | Core length (cm) | Shipboard samples | Core image | Ash | Bottom contact | Bioturbation intensity | Disturbance type | Disturbance intensity | Comments

Beds fn upward from sandstone to laminated siltstone to claystone. There is a nannofossil ooze in CC, 0-5cm.

1412.90 — 0

1413.00 — 10 — XRD CARB

M — Siltstone

1413.10 — 20 — MAD PMAG

26 — g

1413.20 — 30

L — Laminated silty fn sandstone
29-32 cm convolute lamination

1413.30 — 40 — p

L — Sandstone — Gley 1 6/10Y Greenish gray

48

1413.40 — 50

1413.50 — 60

H — Cl

1413.60 — 70

1413.70 — 80

84 — g

1413.80 — 90

M — LSC

1413.90 — 100 — p

1414.00 — 110

1414.10 — 120

H — Cl

1414.20 — 130

1414.30 — 140

Hole 368X-U1503A-46R Section 2, Top of Section: 1414.38 m (CSF-A)

Sediment description

Logged by:

Date:

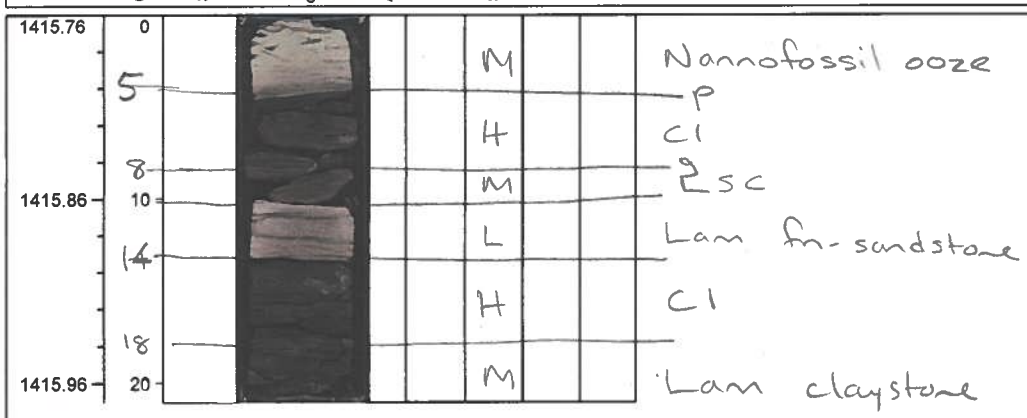
Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1414.40	0					H			Cl
	2								g
						M			LCS
	9								g — Lam silty sandstone
	10					L			p
1414.50	11					M			Lam silty fn sandstone
	18								
	20					M			Cl
1414.60	23								g
						L			Laminated silty fn sandstone
	30								
1414.70	34								
	40					L			Sandstone
1414.80									
	50								
1414.90	52								
						H			Cl
	60								
1415.00	65								g
	70					M			LCS
1415.10									
	78								g
	80					L			Lam silty fn sandstone
1415.20	85								g
						N			Lam silty fn sandstone
	90								g
1415.30						N			x-lam fn sandstone
	100								
1415.40									
	110					H			Cl
1415.50									
	117								p
	120								
1415.60						H			Cl
	130								
1415.70	135								g
			HS			N			Lam sandy siltstone

Hole 368X-U1503A-46R Section CC, Top of Section: 1415.76 m (CSF-A)

Sediment description

Logged by:

Date:



Hole 368X-U1503A-47R Section 1, Top of Section: 1422.5 m (CSF-A)

Sediment description

Light greenish gray

As for 40R + / Nannofossil chalk with clay in Section 2, 56-64cm, Section 3, 29-34cm and Section 4 14-16 cm

Logged by:

Date:

Comments

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1422.50	0								
1422.60	10								
1422.70	20								
1422.80	30					H			C1
1422.90	40								
1423.00	50								
1423.10	60								
	62								g
1423.20	70								
1423.30	80					M			Laminated clay
1423.40	90								
	92								g
						M			LSC
	99								g
1423.50	100					M			LCS
	109								g
1423.60	110								
						L			Lam. sandy silt-stone
1423.70	120								
	123								g
1423.80	130					L			Lam fn sandstone Av. g'size fn sand max g'size med s well sorted

Hole 368X-U1503A-47R Section 2, Top of Section: 1423.88 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m) | Core length (cm) | Shipboard samples | Core image | Ash | Bottom contact | Bioturbation intensity | Disturbance type | Disturbance intensity | Comments

1423.90
0
H — Cl
7 — g
10 — H — Lam Cl
1424.00
14 — g
MAD
XRD
CARB
H — silty clay
20 — p
1424.10
N — Lam fn sand av. g'size fn sand max medium sand
25 — p well sorted
30
1424.20
H — ↑ Cl
38 — p
40
1424.30
H — Cl 2.5Y 3/2 Very dark grayish brown
46 — g
H — Cl Back to green colour as recorded
48 — g
50 — M — g — LCS
1424.40
53 — L — p Lam siltstone
M — ↑ Nannofossil chalk with clay Gley 1 8/10Y Light greenish gray
60 — p 55 61 cm
1424.50
M — ↑ Nannofossil chalk with clay Gley 1 7/10Y "
68
70
1424.60
H — Cl
76 — g
M — LSC
79
80
1424.70
H — Cl
89 — g — LSC
M
90
1424.80
M — p LCS
93
L — siltstone laminated
96 — p
100
1424.90
H — ↑ Cl
108 — g
110 — M — LSC
1425.00
113
120
1425.10
H
130
1425.20
133 — g LSC
M
135 — p
H — ↑ Cl
139 — p
140
H — ↑ Cl
1425.30

Hole 368X-U1503A-47R Section 3, Top of Section: 1425.31 m (CSF-A)

Sediment description

Logged by:

Date:

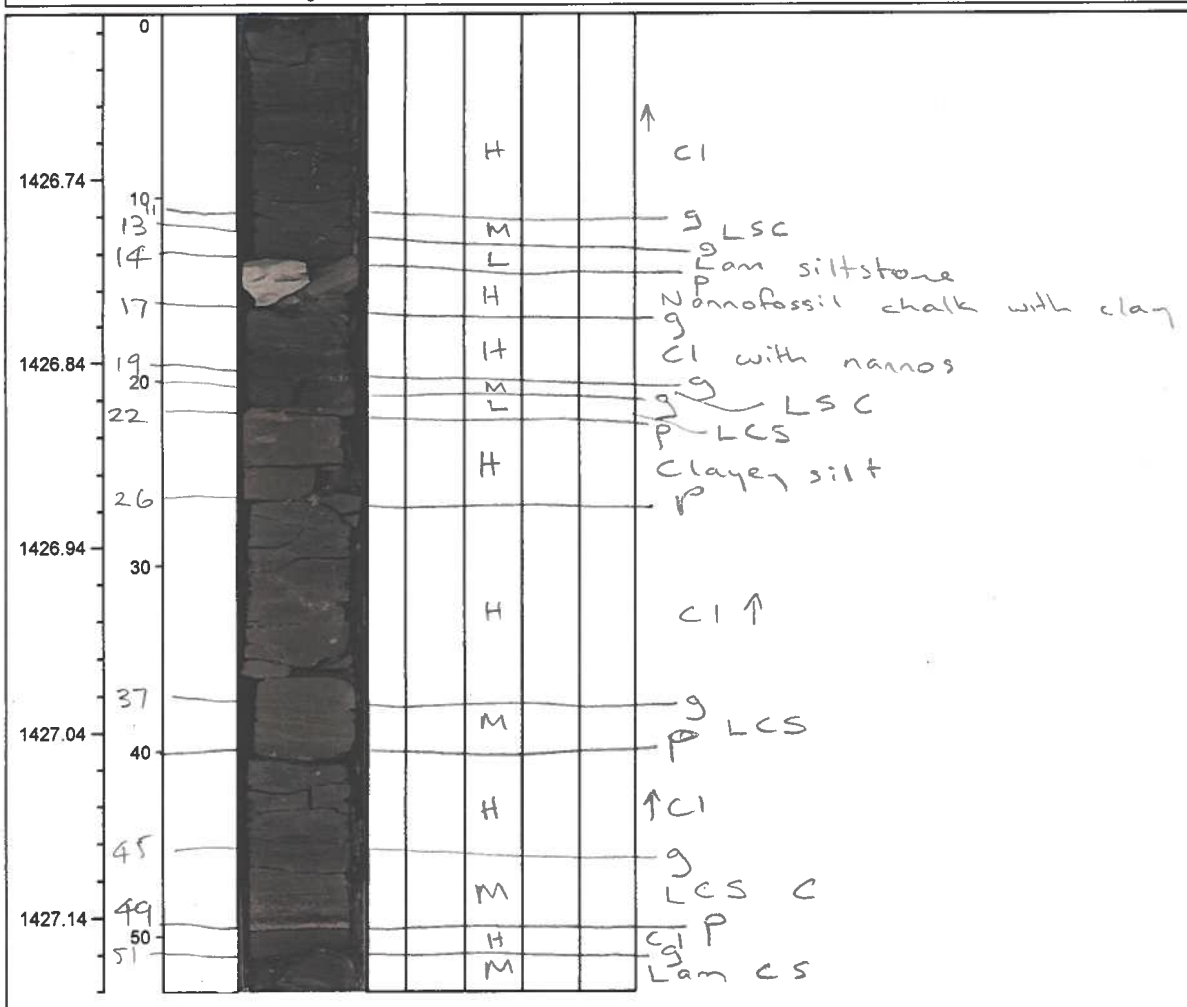
Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
	0								↑ Cl
	6					H			g
1425.40	10	PMAG MAD				H			↑ Silty clay
	12								g
	14					M			LCS
	18					L			g Lam siltstone
1425.50	20					N			g
	26					H			↑ Cl
	29					H			g
1425.60	30								↑ Cl with nannos
	34					M			g
	38					H			↑ Nannofossil-rich claystone Gley 1 8/10Y
1425.70	40								Cl
	50					H			↑ Cl
1425.80	51								p
	53					M			LSC
	59					H			↑ Cl
1425.90	60					H			g
	62								↑ Silty claystone
	65					L			g LCS
	68					L			g Lam siltstone
1426.00	70								p
	80					H			↑ Cl
1426.10	84					H			g
	90								LSC
1426.20	92					M			g
	94					M			LCS
	100								g Lam siltstone
1426.30	103					M			g LSC
	105					L			g LCS C
	110					H			p
1426.40	116								↑ Cl
	120					M			g
1426.50	122								LSC
	124					H			↑ Cl
	126					M			LSC
	128					L			p Lam siltstone
1426.60	130	HS				H			↑ Cl

Hole 368X-U1503A-47R Section 4, Top of Section: 1426.65 m (CSF-A)

Sediment description

Logged by:

Date:

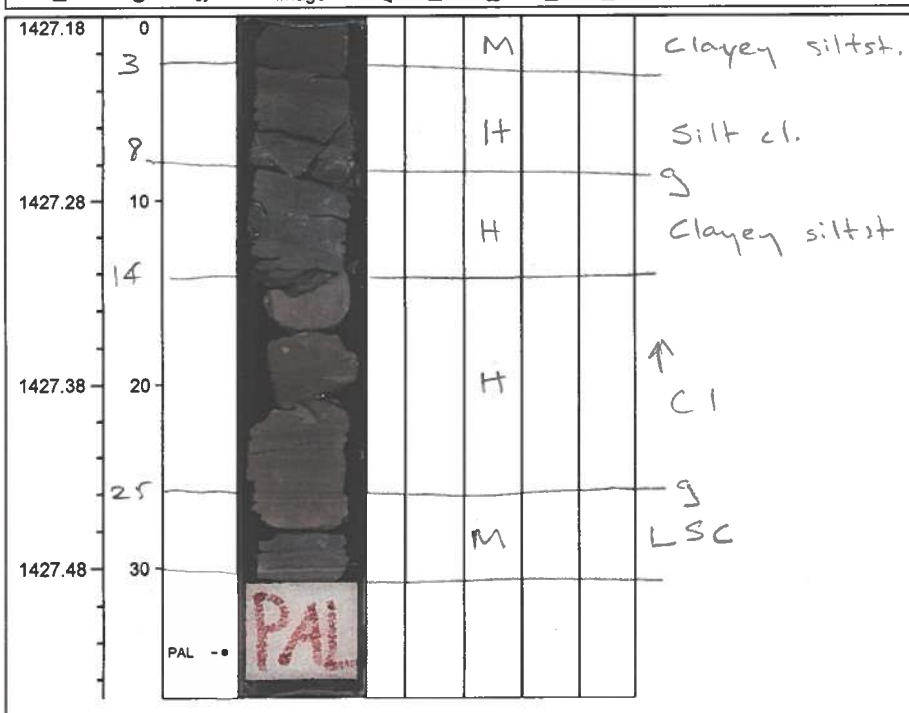


Hole 368X-U1503A-47R Section CC, Top of Section: 1427.18 m (CSF-A)

Sediment description

Logged by:

Date:



Hole 368X-U1503A-48R Section 1, Top of Section: 1432.1 m (CSF-A)

Sediment description

Logged by:

Date:

As for 40 R.

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1432.10	0					H			↑ Cl
1432.20	10								
	15					H			Silty cl
1432.30	20					H			↑ Cl
	28								g
1432.40	30					H			Silty cl
	32					L			Silty Fn sandstone Laminated
	37								
1432.50	40					H			↑ Cl
	44								g Clayey siltst
	48	CARB XRD				M			g
	49					L			Lam siltstone
1432.60	50								P
1432.70	60					H			↑ Cl
1432.80	70								
	78					L			Lam silty Fn sandstone
1432.90	80								P
						H			↑ Cl
	88					M			g LSC
1433.00	90								g
	93					M			LCS
									g
	96					L			Lam siltstone
									P
1433.10	100					H			↑ Cl
	103								g LSC
	108					M			g
1433.20	110					L			LCS
	111								g
	113	MAD PMAG				N			Lam siltst.
									P
						H			↑ Cl
1433.30	120								g
						M			LSC
	126					N			g Lam siltst
	128								g Lam Fn sandstone
1433.40	130					N			
	131								P
						H			↑ Cl
	135					M			g
	139								Clayey siltst
1433.50	140					M			g Siltst

Hole 368X-U1503A-48R Section 2, Top of Section: 1433.54 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m) | Core length (cm) | Shipboard samples | Core image | Ash | Bottom contact | Bioturbation intensity | Disturbance type | Disturbance intensity | Comments

1433.60
0
10
12 — g — Silty cl.
1433.70
16 — g
20
21 — P — Lam siltstone
22
DD
1433.80
30
1433.90
40
43 — g
1434.00
47 — P — Cl ← Colour change to 10YR 3/1 V. dk gray
50
1434.10
60
64
66 — Siltstone
1434.20
70
1434.30
80
81
DD
83 — P — Lam siltstone
1434.40
88 — g
90
94 — g
1434.50
100
1434.60
110
1434.70
120
124
126 — Lam siltstone
1434.80
130
1434.90
140
1435.00
150
HS

Bioturbation intensity: H, H, L, H, H, M, N, H, H, M, H, N, H

Disturbance type: B, M, I, I, V

Disturbance intensity: Cl, Cl, Cl, Cl, Cl, Cl, Cl ← Colour change to 7.5YR 3/1, Cl

Hole 368X-U1503A-48R Section CC, Top of Section: 1435.05 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1435.05	0								
						H			C1
1435.15	10								
		PAL	PAL						
1435.25	20								

Hole 368X-U1503A-49R Section 1, Top of Section: 1441.7 m (CSF-A)

Sediment description

As for 40R

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1441.70	2								Fall in
	6					N			x-lam siltstone Gley 1 6/10Y
1441.80	10					H		↑	Cl
	18								
1441.90	20								Nannof. -r clay Gley 1 6/10Y Greenish gray
1442.00	30								
1442.10	40								
						H		↑	Cl
1442.20	50								
	55					M		g	LSC
	57							g	
	59					L		L	CS
1442.30	60							P	
	61					H		Cl ↑	
						H		P ↑	Cl
	66							g	Gley 1 3/10Y V. dk greenish gray
1442.40	70								
						H			Cl 2.5Y 3/2 V. dk grayish brown
1442.50	80								
1442.60	90								
						H		↑	Cl
1442.70	100								
	101							P	
						H		↑	Cl
1442.80	110							P	
						H			Cl
	116					N			Lam siltstone
	117								
1442.90	120								
1443.00	130					H			Cl
1443.10	140								
1443.20	150	HS							

Hole 368X-U1503A-49R Section 2, Top of Section: 1443.2 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1443.20	0					H			↑Cl
	7								g
	9					M			g LCS
1443.30	10					L			Lam. siltstone
	14								g
	16					L			x-lam siltstone Gley 6/10Y
						L			Lam fn sandstone Av fn-ss max med ss well sorted
1443.40	20								p
						H			↑ Cl
	27								g silty claystone
	29					H			g LCS
1443.50	30					M			g
	32					N			p Lam siltstone Gley 6/10Y
						H			Cl
	37								
1443.60	40					H			↑ Cl
	43								g
	47					H			↑ g Cl with nannos
									p
						H			Cl
1443.70	50								
	51					M			g
	54								LCS
						H			↑
1443.80	60	MAD XRD CARB							Cl
	66								p
						H			Cl ↑
1443.90	70								
	71								p
						H			Cl
	76								p
1444.00	80					H			Cl ← Colour change to 2.5Y 3/2
	83								p
						H			Cl
1444.10	90								
1444.20	100								
	104								g
						H			. Cl ← Colour change to 2.5Y 3/2
1444.30	110								
						M			LSC
	115								p
						H			↑ Cl
1444.40	120								
	122								g
	124					L			p Lam siltstone
1444.50	130								
						H			Cl
1444.60	140								
	142								
	145	PMAG - •				H			Silty cl.
									g
	146					L			Lam siltst.
						H			Cl p

Unless noted the colour is the same as recorded

Hole 368X-U1503A-49R Section 3, Top of Section: 1444.67 m (CSF-A)

Sediment description

Logged by:

Date:

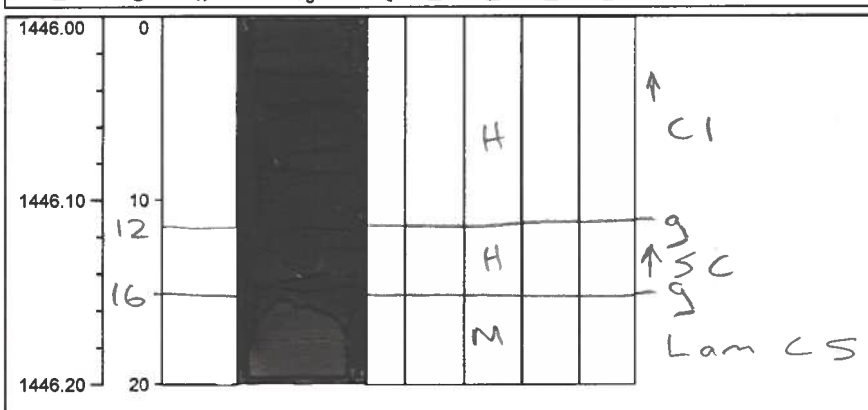
Depth CSF-A (m)	Core length (cm)	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1444.70	0	N			x-lam siltstone
	3				↑
		H			Cl
	10				
1444.80	13				g
	20	M			LSC
1444.90					
	29				g LCS
	30	L			
	32				g Lam siltstone
1445.00	33	N			g
	36				Lam fn ss av. g'size fn s max med s well sorted
		H			Cl
	40				
1445.10	45				g
		H			Cl ← Colour change 2.5Y 3/1 V. dk gray
	50				
1445.20	54				
	55	M			p LSC
		H			↑ Cl
	60				g
1445.30	63	H			↑ Silty cl.
		M			g ↑ Clayey siltst.
	67				p
	70				
1445.40		H			Cl ← 2.5Y 3/1
	80				
1445.50	82				
		H			Cl
	90				
1445.60	93				g
	96	H			Cl ← 2.5Y 3/1
		N			p
	98				x-lam siltstone Gley 6/104
	100	H			Cl
1445.70	103				
	106	N			Lam siltstone Gley 6/104
		H			↑ Cl
	110				
1445.80	114				g silty cl.
	117	H			g LCS
	119	M			g
	120	L			p - Lam siltstone
1445.90		H			Cl
	130				
1446.00					

Hole 368X-U1503A-49R Section CC, Top of Section: 1446.0 m (CSF-A)

Sediment description

Logged by:

Date:



Hole 368X-U1503A-50R Section 1, Top of Section: 1451.3 m (CSF-A)

Sediment description

Logged by:

Date:

As for 40R +
There is a fining upward nannofossil chalk in Section 3, 49–26 cm. The chalk fines upward from lam siltstone to nannofossil chalk with clay.

Depth CSF-A (m) | Core length (cm) | Shipboard samples | Core image | Ash | Bottom contact | Bioturbation intensity | Disturbance type | Disturbance intensity | Comments

1451.30 | 0 | M | LSC
4 | M | LCS
1451.40 | 10 | M | Lam siltstone
17 | P
1451.50 | 20 | H | ↑ Cl
1451.60 | 30
33 | H | ↑Cl with nannofossils. 2.5Y 5/2 Grayish brown
37 | M | g Cl. siltstone
39 | L | g Lam siltstone Gley1 5/10Y
1451.70 | 40 | P
H | Cl
1451.80 | 50
55 | P
H | ↑Cl
59 | g
1451.90 | 60 | L | LCS
62 | g
Lam siltst
65 | L | P
67 | H | ↑ Cl
g
1452.00 | 70 | M | LSC
71 | g
M | LCS
74
1452.10 | 80 | H | ↑ Cl
1452.20 | 90
91 | g
H | ↑ SC
97 | g
M | LCS
99 | g
1452.30 | 100 | L | x-lam siltstone
P
103 | H | Cl
P
1452.40 | 110 | H | Cl
116 | g
1452.50 | 120 | H | ↑Cl
129 | P
1452.60 | 130 | H | ↑ Cl
139 | g
1452.70 | 140 | M | LSC

Gley1 5/10Y
Py nodule at 99 cm

10YR 3/1 V. dk gray

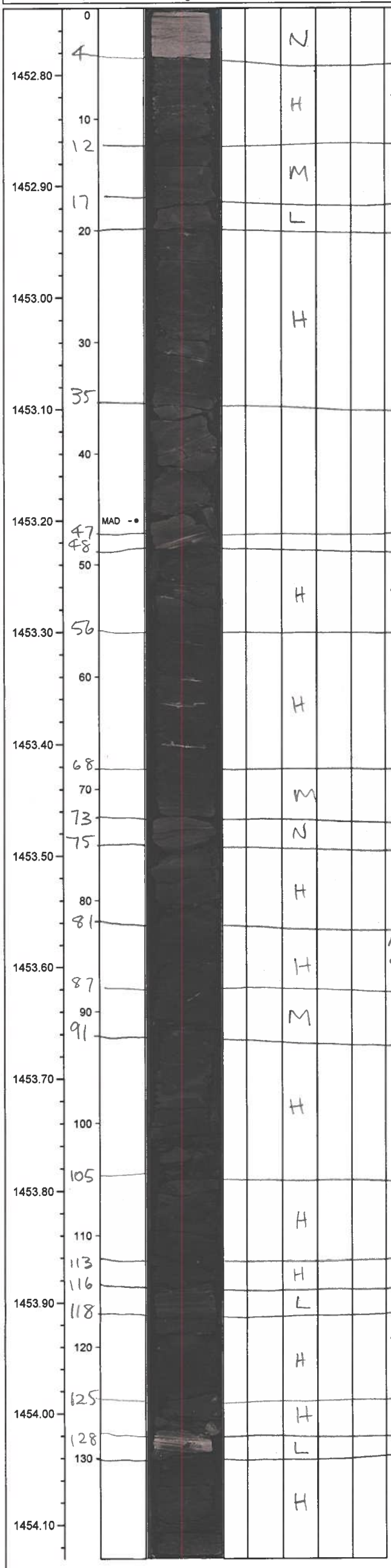
Hole 368X-U1503A-50R Section 2, Top of Section: 1452.74 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m) | Core length (cm) | Shipboard samples | Core image | Ash | Bottom contact | Bioturbation intensity | Disturbance type | Disturbance intensity | Comments



0
4 — P — x-lam fn sandstone v. well sorted. Gley 1 6/N Gray
1452.80
H ↑Cl
10
12 — g — LSC
M
1452.90
17 — g — LCS
L
20 — P
1453.00
H Cl
30
35 — P
1453.10
40
MAD
1453.20
47
48 — x-lam fn sandstone Gley 1 6/N
50
H ↑Cl
1453.30
56 — g
60
H ↑ Cl 2.5Y 3/1 V. dk gray
1453.40
68 — g
70
M LSC
73
N x-lam siltstone Gley 1 5/10Y
75
1453.50
H Cl
80
81 — g
↑Cl
1453.60
H
87 — g
90
M LCS
91 — P
2.5Y 3/1
1453.70
H Cl
100
105 — P
1453.80
↑Cl
H
110
113 — g
H
116 — g
1453.90
L
118 — P
120
H Cl
125 — g
1454.00
H ↑Silty clay
128 — g
L
130 — P Lam siltstone Gley 5/10Y
H Cl
1454.10

Silty clay
Lam siltst.

Hole 368X-U1503A-50R Section 3, Top of Section: 1454.13 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
	0					N			
	2								P x lam fn-ss Gley 1 6/N
1454.20						H			Cl Gley 1 4/5GY
	10								g
1454.30						H			Cl 7.5YR 3/2 Dark brown
1454.40	26								g
	30					H			N. chalk 10YR 5/1 Gray with clay
	32								g
1454.50						H			Nanno chalk
	40	PMAG MAD							
	42								g N-r Siltstone
	45					H			Gley 1 6/10Y
1454.60						L			L siltstone with nannos
	49								Gley 1 7/10Y
	50								P
1454.70									↑
	60					H			Cl
1454.80									
	70								
1454.90									↑ Cl Gley 3/10Y
	80					H			
									↑ Cl
1455.00	88								g
	90					H			↑ SC
	94								g Colour
1455.10	97					M			L CS 10YR 3/1
						N			g
	100								Erosive x-lam siltstone 2.5Y 5/1 Gray
						H			Cl Gley 3/10Y
1455.20	107								g
	110					H			Cl 7.5YR 3/2
	114								g
1455.30						H			Cl 10YR 3/1
	120								
	125								g
1455.40						M			L SC
	128								P
	130					H			Cl
	134								g
						H			↑ Silty clay
1455.50	138								
	140					N			x-lam fn ss Gley 1 6/N
	142								↑
						H			Cl
1455.60									

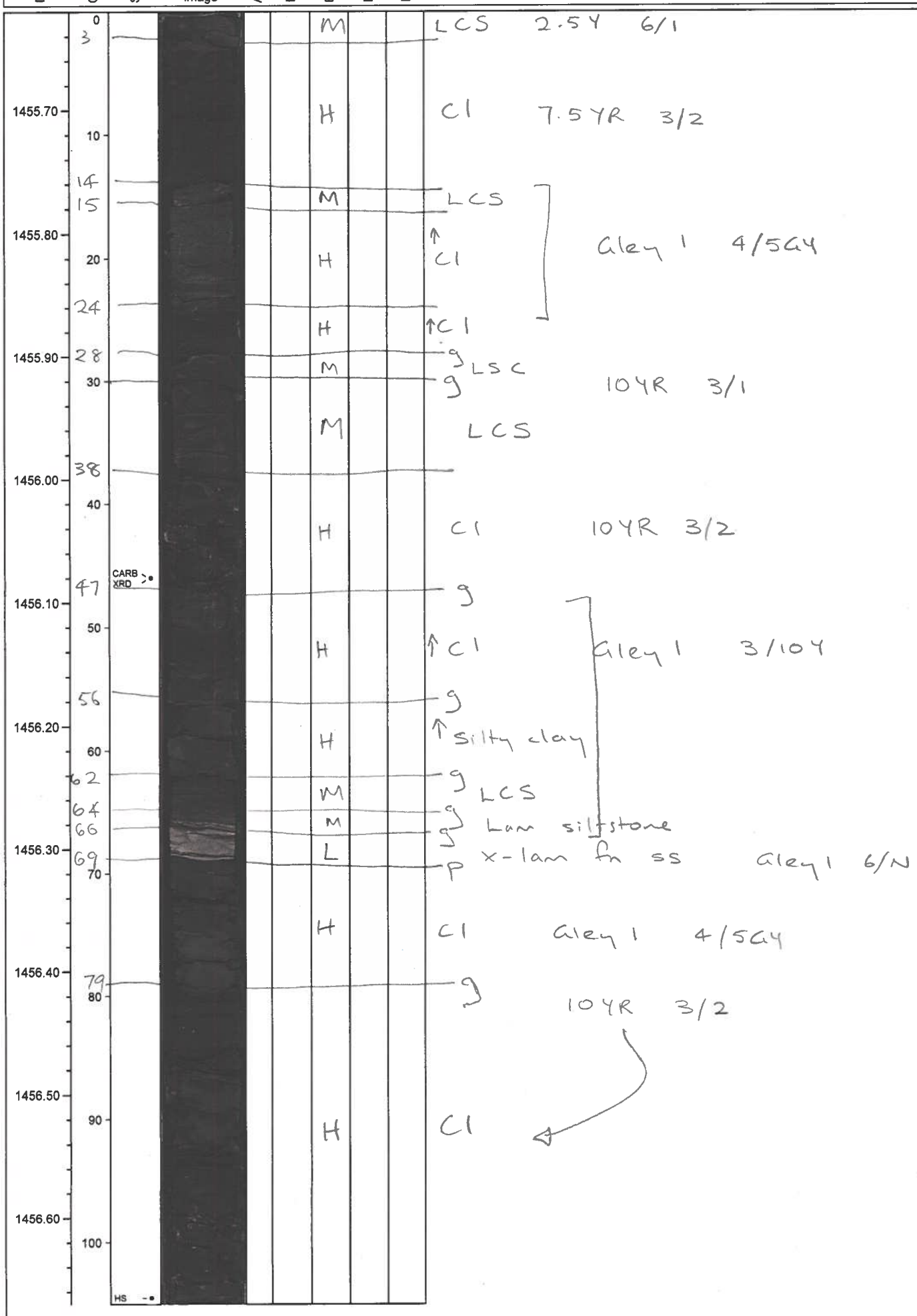
Hole 368X-U1503A-50R Section 4, Top of Section: 1455.62 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m) | Core length (cm) | Shipboard samples | Core image | Ash | Bottom contact | Bioturbation intensity | Disturbance type | Disturbance intensity | Comments



Hole 368X-U1503A-50R Section CC, Top of Section: 1456.67 m (CSF-A)

Sediment description

Logged by:

Date:

Hole 368X-U1503A-51R Section 1, Top of Section: 1460.9 m (CSF-A)

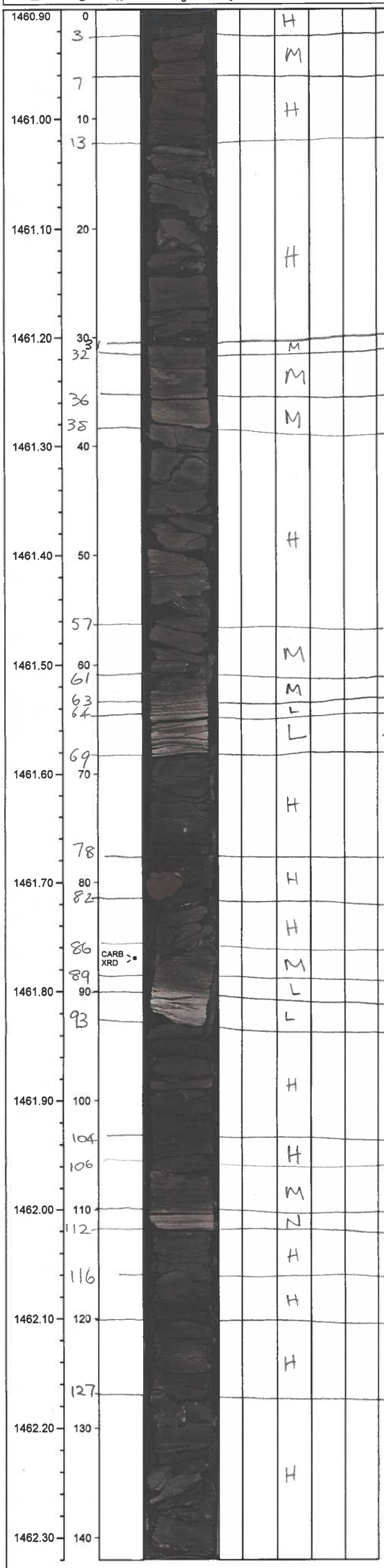
Sediment description

Logged by:

Date:

As for 40R but add dark brown as a colour for claystone and "There is a fining upward bed from x-lam siltstone to nannofossil chalk to nannofossil chalk with clay in Section 3,

Comments 104–115 cm.



Depth CSF-A (m): 1460.90, 1461.00, 1461.10, 1461.20, 1461.30, 1461.40, 1461.50, 1461.60, 1461.70, 1461.80, 1461.90, 1462.00, 1462.10, 1462.20, 1462.30

Core length (cm): 0, 3, 7, 10, 13, 20, 30, 31, 32, 36, 38, 40, 50, 57, 60, 61, 63, 64, 69, 70, 78, 80, 82, 86, 89, 90, 93, 100, 104, 106, 110, 112, 116, 120, 127, 130, 140

Shipboard samples: CARB XRD

Core image

Ash

Bottom contact

Bioturbation intensity: H, M, H, H, M, M, M, H, M, L, L, H, H, H, M, L, L, H, H, H, N, H, H, H

Disturbance type: S C, LCS, P, Silty cl., Silty clay, LSC, LCS, 1cm siltstone, P, Cl, LSC, LCS, 1cm siltstone, lam fn sandstone, P, Silty claystone, Cl, Silty clay, LCS, Lam siltstone, x-lam fn sandstone, Cl, P, Cl, LCS, Lam siltstone, Silty claystone, P, Cl, Cl

Disturbance intensity:

Gley1 4/104

10YR 4/1

Gley1 4/104

33 Py nodule

51, 55cm Py nodule

LCS

Gley1 6/10Y

Gley1 3/5GY

7.5YR 3/2

Gley1 4/10Y

Gley1 6/10Y

10YR 3/1

Gley1 3/10GY

2.5Y 4/1

2.5Y 6/1

Gley1 3/10GY

10YR 3/1

10YR 3/3

Gley1 3/10GY

Hole 368X-U1503A-51R Section 2, Top of Section: 1462.32 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
	0					M			LCS
	2								g
	4					L			p ← 1cm siltstone
						H			↑C1
1462.40	9								p
	10								
									↑
1462.50									
	20					H			C1
	24								g
						M			LSC
1462.60	29								
	30								g
						M			LCS
	35								p
									↑
1462.70						H			C1
	40								
	42					M			g LSC
	45					M			g LCS
	46								p
1462.80						H			↑C1
	50								
	51								g
						H			↑Silty claystone
1462.90									
	60								
	64					M			LCS
	66								g
						L			p Lam siltstone
1463.00	68								
	70					H			C1
	75								g
1463.10						H			Silty clay
	80								
	82								
						M			LCS
1463.20									
	90								p
						H			C1 Gley 1 5/10Y
1463.30	97								g
	100								
						H			C1 7.5YR 2.5/2
1463.40									
	110	MAD PMAG							g
						H			C1 2.5Y 3/1
	117								g
1463.50						H			↑C1
	120								g
						H			↑ Silty claystone
	126								g
						M			LCS
1463.60	129								g
	130					L			p Siltstone with convolute lamination
	132								
						H			C1 Gley 1 2.5/10Y
1463.70									
	140								

Glay 1 5/10Y

2.5Y 3/1

Glay 1 5/10Y

2.5Y 4/1

Glay 1 5/10Y

Hole 368X-U1503A-51R Section 3, Top of Section: 1463.76 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1463.80	0					H			↑ Cl Gley1 4/10GY
	6								g
						H			↑ Silty Cl
	10								g
						M			LCS
1463.90	14								p
						H			Cl Gley1 4/10GY
	20								p
1464.00						H			Cl 2.5Y 4/1
	29								g
	30					H			↑ Cl
1464.10									Gley1 4/10GY
	36								g
	40					H			↑ silty cl.
1464.20	45					M			g LCS
	48					N			g
	50								p Lam siltstone Gley1 5/10Y
	51								
1464.30						H			Cl Gley1 3/5GY
	58								g
	60					H			Cl 7.5YR 2.5/2
1464.40									
	69								g
	70					M			LCS Gley1 4/10GY
	71								g
1464.50						L			x-lam fn sandstone Gley1 6/10Y
	76								p
	79					H			Cl ↑
	80					M			g LSC
1464.60	83					L			Lam siltstone Gley1 5/10Y
	85								p
	90								Gley1 3/5GY
1464.70						H			Cl
	100								↑
1464.80	104								g
	110					H			↑ Nannofossil chalk with clay
	111								g lam nannofossil chalk Gley1 6/10Y
	113					L			
1464.90	115					N			x-lam fn-ss Gley1 6/10Y
									p
	120								
1465.00						H			Cl Gley1 3/5GY
	130								
1465.10									

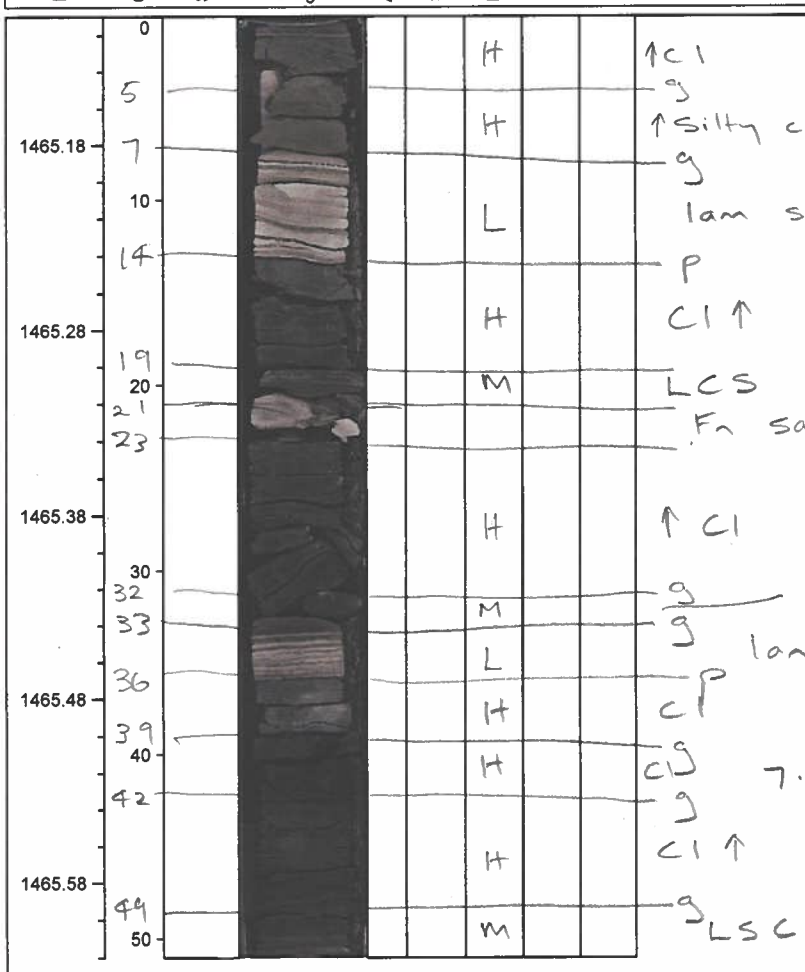
HS

Hole 368X-U1503A-51R Section 4, Top of Section: 1465.11 m (CSF-A)

Sediment description

Logged by:

Date:



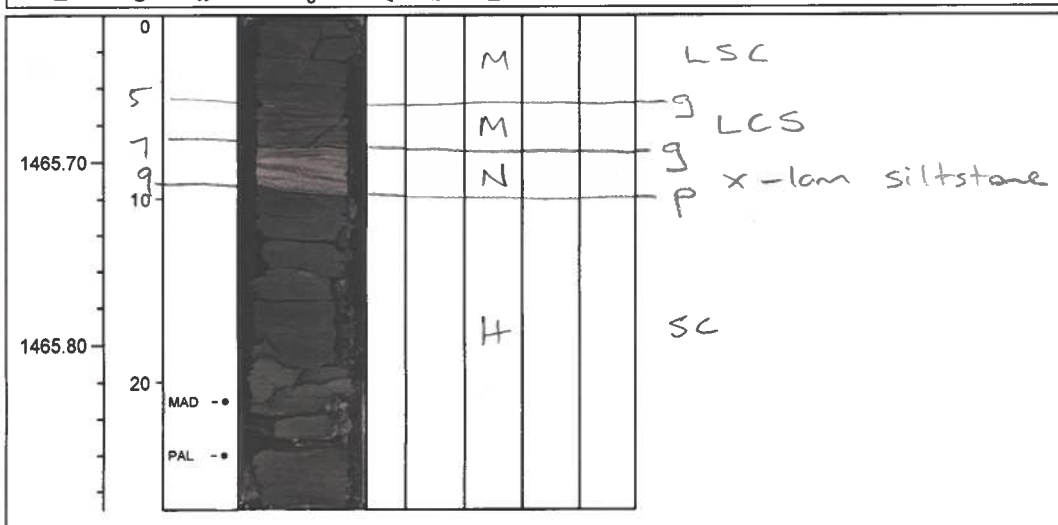
If colour not indicated, it is Gley1 6/10Y

Hole 368X-U1503A-51R Section CC, Top of Section: 1465.62 m (CSF-A)

Sediment description

Logged by:

Date:



Hole 368X-U1503A-52R Section 1, Top of Section: 1470.5 m (CSF-A)

Sediment description

As for 51R but without the nannofossil chalk.

Logged by:

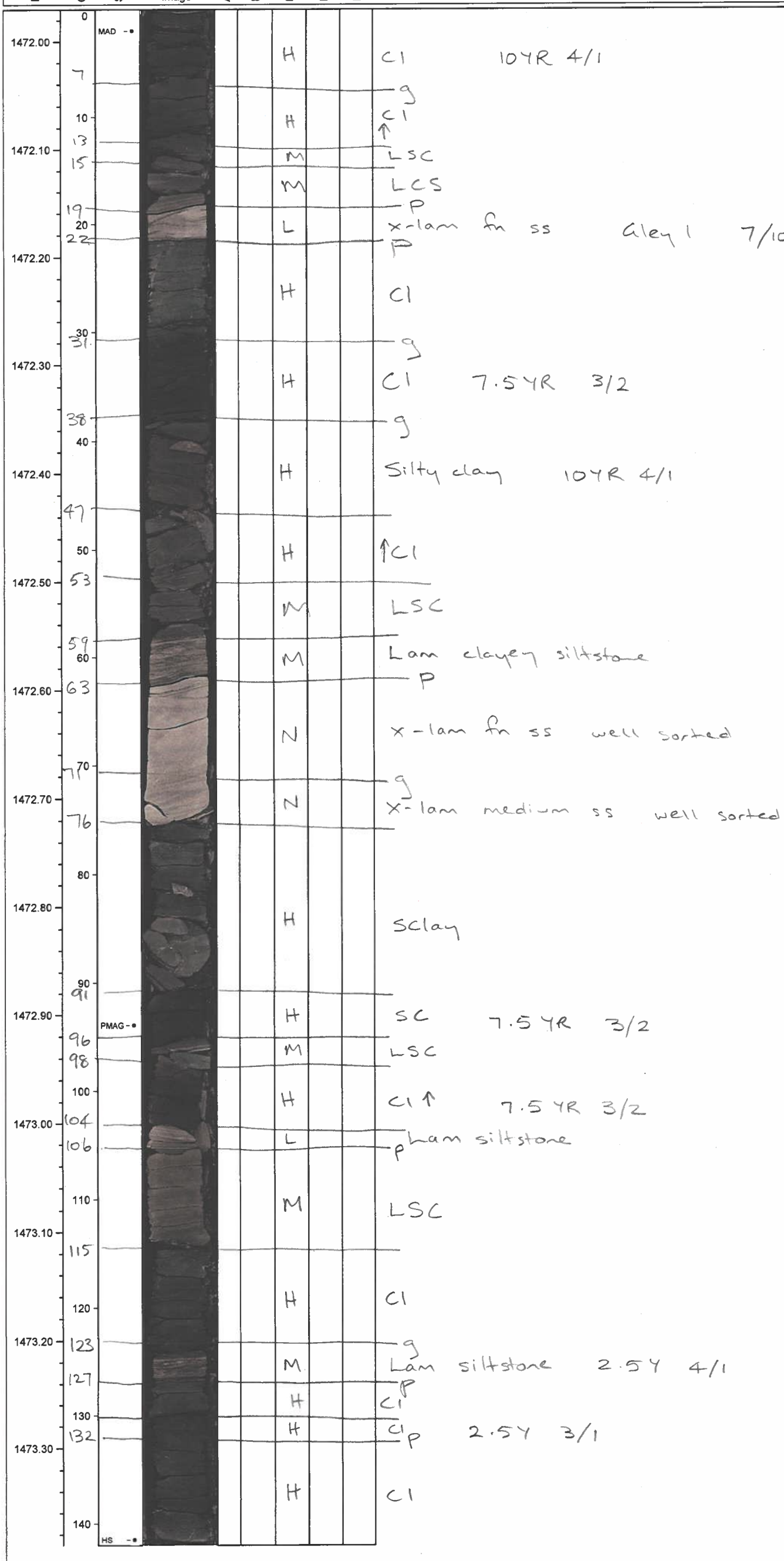
Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1470.50	0					H			Cl
	8							g	
1470.60	10					H			silty cl
	12							g	
	13					L		p	lam siltstone
						H			Cl
	17								
						H			sc
1470.70	20					L			LCS
	22							g	
						N			x-lam siltstone Gley 1 7/104
	26							p	
1470.80	30					H			↑ cl
	32								
						H			↑ sc
	38	MAD				M		g	LSC
1470.90	40							g	
						M			LCS
	45								
	48					L		p	x-lam siltstone Gley 1 7/104
1471.00	50								
									↑
						H			Cl
1471.10	60								
	61					M			LSC
	63							p	
						H			
1471.20	70	CARB XRD							Cl
	78							g	
						H			↑ cl
1471.30	80							g	
						M			LSC
	84							g	2.5Y 3/1
	86					M			LCS
								g	
						L			Lam siltstone 2.5Y 5/1
1471.40	90							p	
						H			Cl ↑
	95							g	
						H			↑ sc
	98							g	
1471.50	100					M			LCS
	101							p	
	103					L			Lam siltstone Gley 1 7/104
						H			↑ Cl
1471.60	110							g	
						H			↑ sc
	115							g	
	117					L		p	lam siltstone
1471.70	120					L			x-lam fn ss Gley 1 7/104
	122							p	
						H			Cl
	128								
1471.80	130					M			LSC
	132							g	2.5Y 3/1
						M			LCS
	136								
						H			Cl
1471.90	140								
						H			Cl 7.5YR 3/1

Hole 368X-U1503A-52R Section 2, Top of Section: 1471.97 m (CSF-A)

Logged by:

Date:

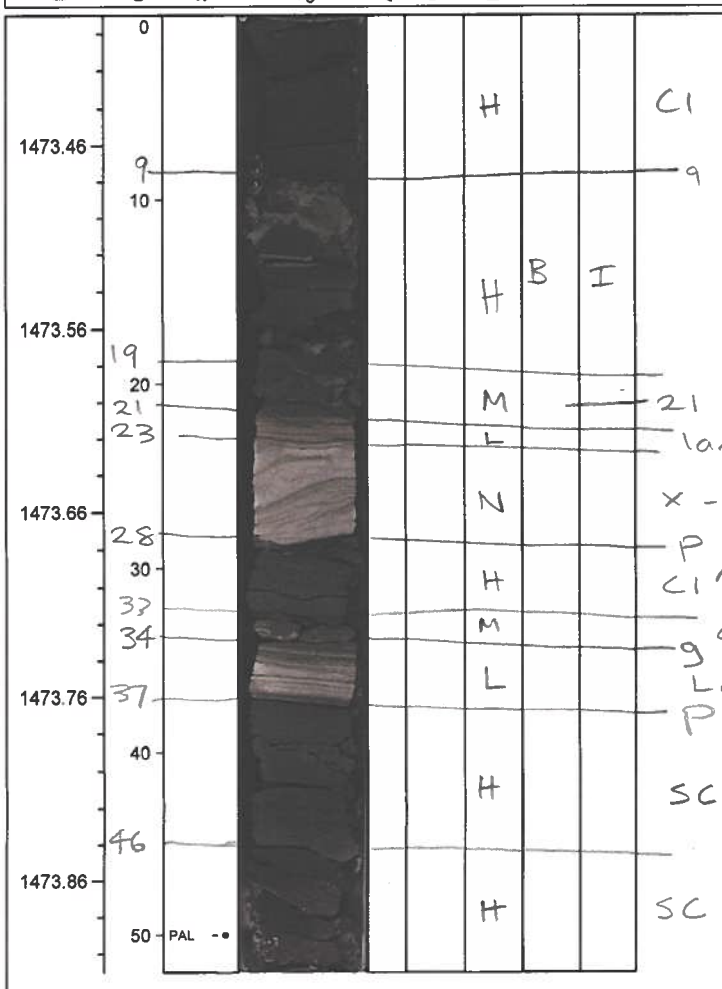


Hole 368X-U1503A-52R Section 3, Top of Section: 1473.39 m (CSF-A)

Sediment description

Logged by:

Date:



Hole 368X-U1503A-53R Section 1, Top of Section: 1480.1 m (CSF-A)

Sediment description

As for 52R but add. There are two intervals of fining upward claystone with nannofossils in Section 2, 17-26 cm and 95-109 cm.

Logged by:

Date:

Depth CSF-A (m) | Core length (cm) | Shipboard samples | Core image | Ash | Bottom contact | Bioturbation intensity | Disturbance type | Disturbance intensity | Comments

1480.10 | 0 | H | sc
5 | g lam siltstone
6 | L | g lam fn-ss] Gley 1 7/10Y
8 | N | p
1480.20 | 10 | MAD | H | ↑ cl
18 | g sc clayey
1480.30 | 20 | H | g lam/siltstone
22 | M
23 | x-lam fn ss - Gley 1 7/10Y
26 | L
M | LCS
1480.40 | 30
1480.50 | 40 | H | cl
1480.60 | 50
55 | g LSC
56 | M | p lam siltstone Gley 1 6/10Y
58 | L | p
1480.70 | 60 | H | cl
1480.80 | 70
71 | H | cl 7.5YR 2.5/2
77
H | sc
1480.90 | 80
81 | H | cl
85 | g
H | sc
1481.00 | 90 | g lam siltstone
91 | L | p
N | x-lam fn ss convolute lamination. Gley 1 7/10Y
99 | p
1481.10 | 100 | H | ↑ cl
102 | g
104 | M | LCS
106 | L | g lam siltstone Gley 1 7/10Y
1481.20 | 110 | H | cl
1481.30 | 120
123 | H | p cl
124
L | Lam siltstone
128
1481.40 | 130 | N | x-lam fn sandstone] Gley 1 7/10Y
133 | p
H | ↑ cl
137 | g
1481.50 | 140 | M | LSC
145 | p
147 | H | cl
148 | N | p lam siltstone Gley 1 7/10Y
1481.60 | 150 | HS | H | cl

Hole 368X-U1503A-53R Section 2, Top of Section: 1481.61 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
	0					M			Lam siltstone
	3								↑
						H			SC
1481.70	10								
						M			LCS
	14								g
						H			C
	17								g
1481.80	20					H			↑claystone with nanofossils C Gley 1 7/5GY
	26					H			SC
1481.90	31 30					L			P x lam siltstone Gley 1 7/10Y 30cm nodule
	32								P
						H			LSC
	35								g
	37					L			LCS
1482.00	39					N			g x lam siltstone Gley 1 7/10Y
	40								
	42					L			↑LCS
									g
	45					N			x-lam siltstone Gley 1 7/10Y
									P
	47					H			g LSC
1482.10						M			LCS
	50								P
	52					H			LSC
	57								g
		PMAG				M			LCS
1482.20	60								P
						H			↑SC
	66								g
	68					M			LCS
1482.30	70					L			LCS
	74								
	76					H			↑g SC
	78					M			LCS
1482.40	80					L			g Lam siltstone
									P
	83					H			Cl
	84					M			P CS
									SC
						H			
	88								g
1482.50	90								Lam siltstone
									P
	95					H			Cl↑
1482.60	100					M			↑
									Claystone with nanofossils Gley 1 8/10Y
	105								
						L			Lam cl with nanofossils
	109								P
1482.70	110					H			Cl
	113								g
						H			Cl 7.5YR 2.5/2
	117								g
1482.80						H			SC
	120								P
	122					H			Cl
									g
1482.90	130								
						H			Cl 7.5YR 2.5/2
1483.00	140	MAD							
	147					H			SC
1483.10	150					H			Cl 7.5YR 2.5/2

Hole 368X-U1503A-53R Section CC, Top of Section: 1483.14 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity		Comments
1483.14	0					H			Cl	7.5YR 2.5/2
1483.24	10					H			SC	Gley1 6/10Y
	12	XRD CARB								
						H			Cl	7.5YR 2.5/2
1483.34	20									
	24					H			SC	Gley1 6/10Y

Hole 368X-U1503A-54R Section 1, Top of Section: 1489.7 m (CSF-A)

Sediment description

Logged by:

Date:

Dark brown, very dark brown, greenish gray and dark greenish gray claystone, claystone with silt, and silty claystone, and greenish gray clayey siltstone. Some intervals of clayey siltstone are laminated but the lamination is disrupted by bioturbation. Beds fine upward from clayey siltstone, to silty claystone to clay. Alternations of greenish and brownish colors do not always correspond to bed boundaries.

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1489.70	0								
1489.80	10								
1489.90	20								
1490.00	30					H			C1 7.5YR 3/4 Dark brown
1490.10	40								
1490.20	50								
	53							g	
1490.30	60					H			C1
	66							g	
	68					M		p	LSC
1490.40	70								
1490.50	80								
1490.60	90								C1
						H			Gley1 6/10Y Greenish gray
1490.70	100								
	101					M		g	LSC
	102							p	
1490.80	110								110 cm SS
						H			C1
1490.90	120								
	121					M		g	LSC
	122							p	
						H			SC
	126							g	
	127					M		p	LCS
1491.00	130								
						H			C1
1491.10	140								

Hole 368X-U1503A-54R Section 2, Top of Section: 1491.15 m (CSF-A)

Logged by:

Date:

Sediment description

Depth CSF-A (m) | Core length (cm) | Shipboard samples | Core image | Ash | Bottom contact | Bioturbation intensity | Disturbance type | Disturbance intensity | Comments

1491.20
0
7 — g
10
1491.30
18 — g
20
1491.40
30
1491.50
40
1491.60
50
57 — g
54 — P
1491.70
60
62 — g
66
67 — g
70
1491.90
80
1492.00
90
92 — g
94 — irregular
1492.10
100
101 — g
1492.20
104 — irreg
110
111 — irreg
1492.30
115 — irreg
120
124 — g
1492.40
129 — irreg
130
1492.50
139
140
1492.60

H — Clayey silt — Gley 1 4/10Y Dark greenish gray
H — Clayey silt — 7.5YR 3/3 Dark brown
H — Cl with silt — Blebs of silty clay with reduction haloes.
H — L3C — Gley 1 4/10Y
P
H — Cl — 7.5YR 3/3
H — Silty claystone
L — LCS
P
H — Cl — Gley 1 4/10Y
H — Cl — 7.5YR 3/2 Dark brown
M — Siltstone with clay. — Gley 1 3/10Y V. dk greenish gray.
H — Cl
H — ↑ Clayey siltstone
H — ↑ Clay with silt
H — ↑ Clay with silt
H — Cl — 7.5YR 3/2
H — ↑ Claystone with silt
H — ↑ Claystone with silt
H — Cl

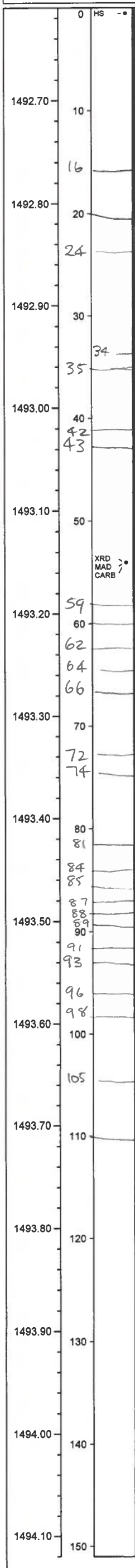
Hole 368X-U1503A-54R Section 3, Top of Section: 1492.61 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m) | Core length (cm) | Shipboard samples | Core image | Ash | Bottom contact | Bioturbation intensity | Disturbance type | Disturbance intensity | Comments



1492.70
0
10
1492.80
16
20
24
1492.90
30
34
35
1493.00
40
42
43
1493.10
50
59
1493.20
60
62
64
66
1493.30
70
72
74
1493.40
80
81
84
85
87
88
89
1493.50
90
91
93
96
98
1493.60
100
105
1493.70
110
1493.80
120
1493.90
130
1494.00
140
1494.10
150

H
H
H
H
H
H

↑ C1 7.5YR 3/2 (1) V. dark brown

g Siltstone with clay Gley1 5/5GY Greenish gray

irreg Claystone with silt

g

↑ Claystone with silt 7.5YR 3/2 (2)

g Siltstone with clay Gley1 5/5GY (3)

irreg

(1)

g

irreg (3)

(1)

g

(2)

g

↑ (3) irreg

(2) g

(3) irreg

1

irreg

3 irreg

1

2 g

P 3

2 P g

3 irreg

1

g

↑ 2 g

↑ 3 irreg

1

2 g

g

1

g

2 but Gley1 5/10GY Greenish gray

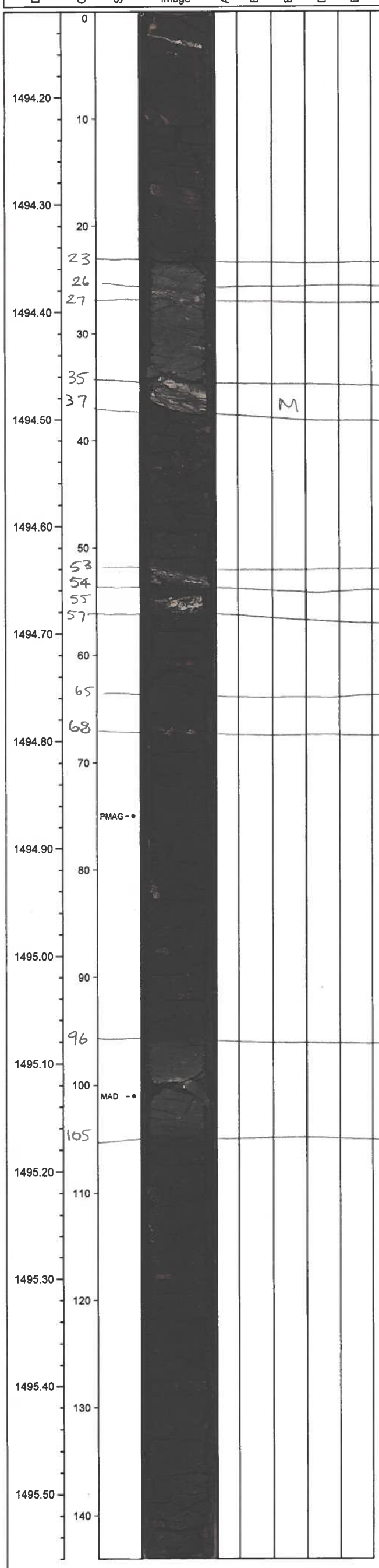
1

Hole 368X-U1503A-54R Section 4, Top of Section: 1494.12 m (CSF-A)

Sediment description

Logged by:

Date:

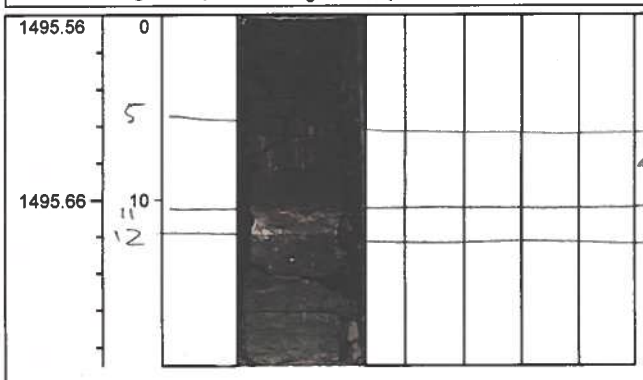


Hole 368X-U1503A-54R Section CC, Top of Section: 1495.56 m (CSF-A)

Sediment description

Logged by:

Date:



Hole 368X-U1503A-55R Section 1, Top of Section: 1499.3 m (CSF-A)

Sediment description

Logged by:

Date:

As for 54R but check colours

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1499.30	0								
1499.40	10								
1499.50	20								
1499.60	30								
	33				g		2		
	38				irreg				
1499.70	39				irreg		3		
	40								
1499.80	50						1		
1499.90	60								
	63				g		2		
	64				irreg				
1500.00	70						1		
1500.10	80								
1500.20	90								
	92				g				
1500.30	100						1		
	102				irreg				
	103				irreg		3		
1500.40	110								
	117				p				
1500.50	120								
1500.60	130	MAD							
	138				g		3		
1500.70	140				irreg		1		
	141								

Numbering scheme from core 54R

7.5YR 3/4

7.5YR 3/3

Gley 1 4/10Y

Gley 1 6/10Y

1 Gley 1 4/10Y

Hole 368X-U1503A-55R Section 2, Top of Section: 1500.73 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m) | Core length (cm) | Shipboard samples | Core image | Ash | Bottom contact | Bioturbation intensity | Disturbance type | Disturbance intensity | Comments

1500.80 m — 0 cm
1500.90 m — 17 cm
1501.00 m — 26 cm, 31 cm
1501.10 m — 40 cm
1501.20 m — 50 cm
1501.30 m — 60 cm, 61 cm
1501.40 m — 70 cm
1501.50 m — 78 cm, 80 cm
1501.60 m — CARB XRD, 90 cm
1501.70 m — 97 cm, 99 cm, 100 cm
1501.80 m — 110 cm
1501.90 m — 120 cm
1502.00 m — 130 cm
1502.10 m — 140 cm
1502.20 m — HS

1
12 9
1
17 9
↑ 2
20 irreg
1
24 9
2
26 P
2
31 P
1
61 P 3
↑ 1
78
1
90
97 Nannofossil chalk
99 100
1
120
1

Gley 1 3/10 4

7.5 YR 3/3

Silt-filled burrows

7.5 YR 3/2

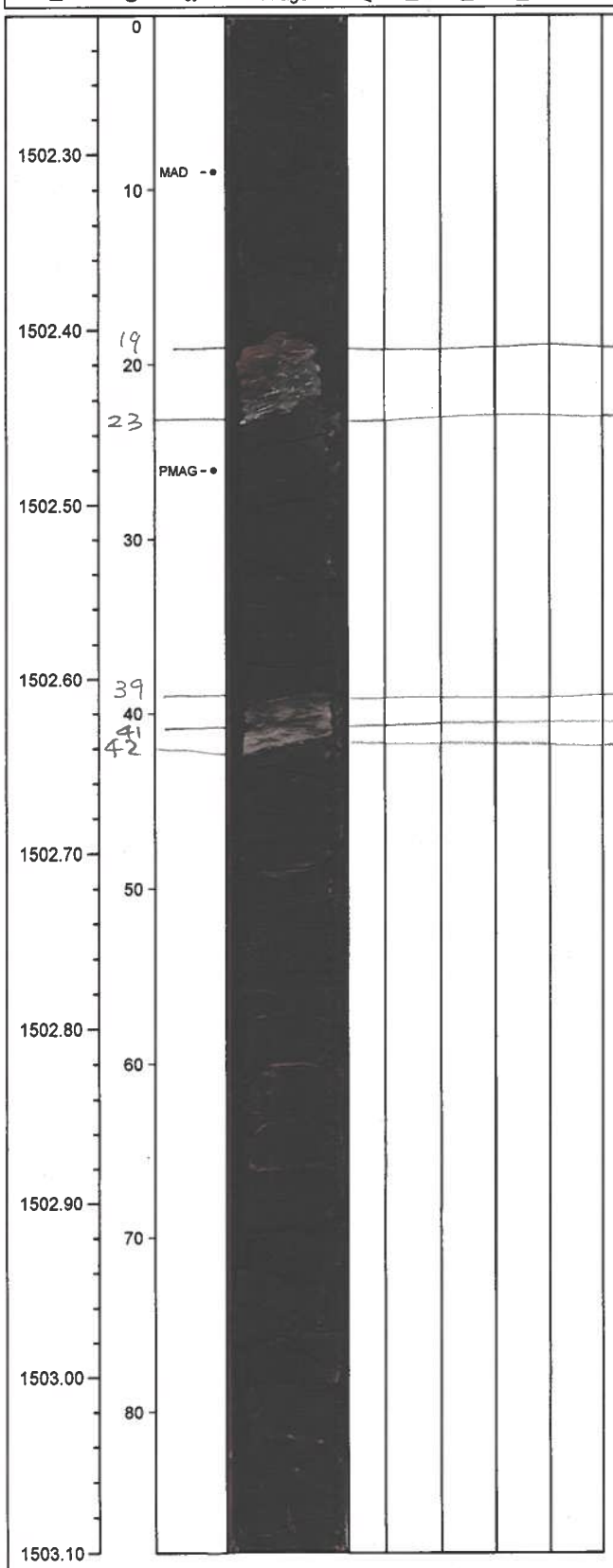
7.5 YR 3/2

Hole 368X-U1503A-55R Section 3, Top of Section: 1502.22 m (CSF-A)

Sediment description

Logged by:

Date:

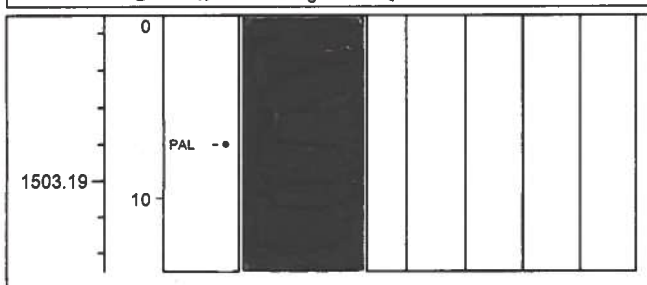


Hole 368X-U1503A-55R Section CC, Top of Section: 1503.1 m (CSF-A)

Sediment description

Logged by:

Date:



Hole 368X-U1503A-56R Section 1, Top of Section: 1508.8 m (CSF-A)

Sediment description

Logged by:

Date:

Dark brown claystone and silty claystone, and rare greenish gray clayey siltstone. There are silt-filled burrows in Section 1, 65–81 cm.

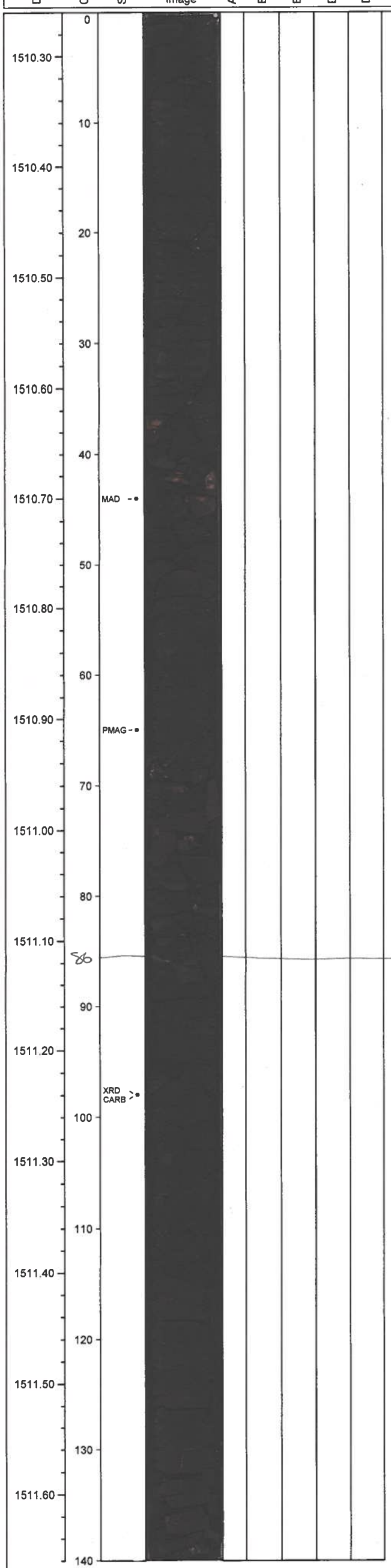
Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1508.80	0								
1508.90	10								Color 7.5YR 3/3
1509.00	20								
1509.10	30								
1509.20	40								
1509.30	50								
1509.40	60								
	65								Silt-filled burrows
1509.50	70								
	76								silt-filled burrow
1509.60	80								2 9 irreg
	81								3
	82								irreg Gley1 5/5G4
1509.70	90								
1509.80	100								
1509.90	110								
1510.00	120								
1510.10	130								
1510.20	140								

Hole 368X-U1503A-56R Section 2, Top of Section: 1510.26 m (CSF-A)

Sediment description

Logged by:

Date:



Hole 368X-U1503A-56R Section 3, Top of Section: 1511.66 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1511.70	0								
	10	XRF							
1511.80									
	20								
1511.90									
	30								
1512.00									
	40								
1512.10									
	50	XRF							
1512.20									
	60								
1512.30									
	70								
1512.40									
	80								
1512.50									
	90								
1512.60									
	100								
1512.70									
	110								
1512.80									
	120								
1512.90									
	130								
1513.00									
	140								
1513.10		HS							

Hole 368X-U1503A-56R Section 4, Top of Section: 1513.14 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1513.22	0								
	10								
1513.32									
	20								
1513.42									
	30								
1513.52									
	40								
1513.62									
	50								
1513.72									
	60								
1513.82									
	70								
1513.92									
	80								

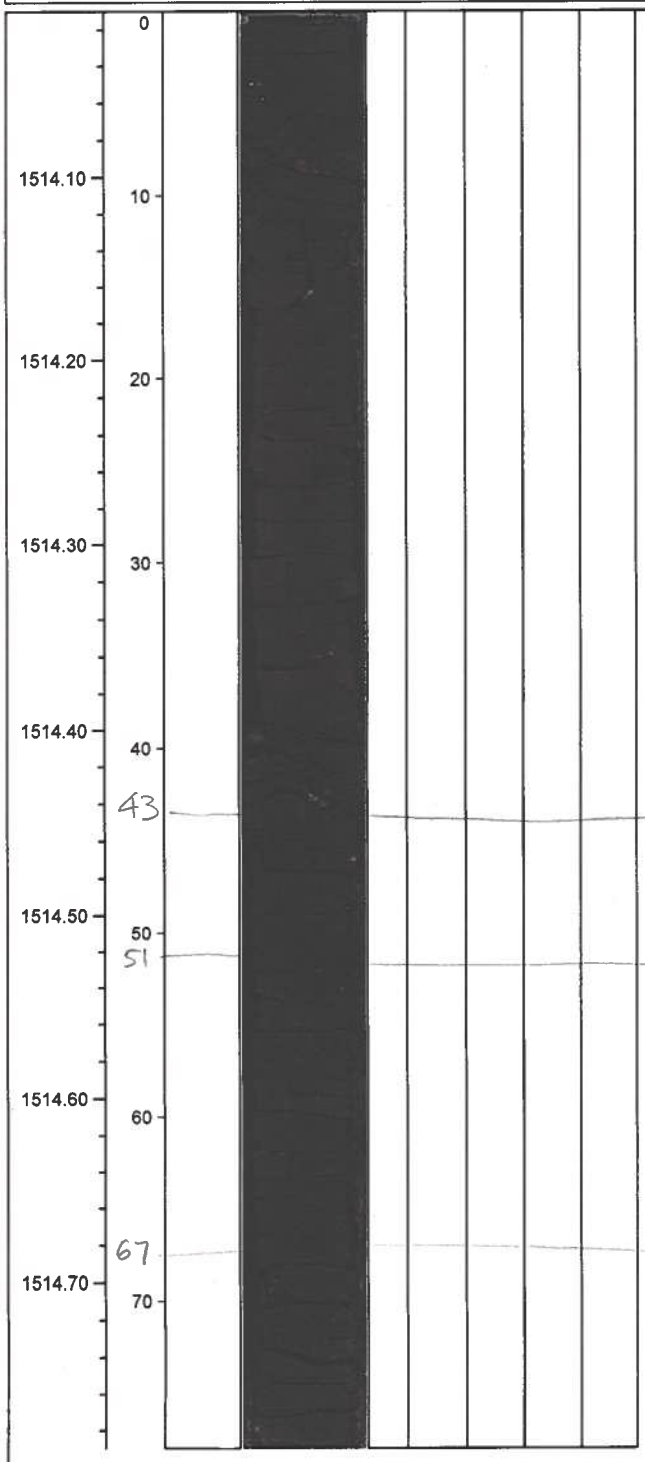
Hole 368X-U1503A-56R Section 5, Top of Section: 1514.01 m (CSF-A)

Sediment description

Logged by:

Date:

Depth CSF-A (m) | Core length (cm) | Shipboard samples | Core image | Ash | Bottom contact | Bioturbation intensity | Disturbance type | Disturbance intensity | Comments



All 1

green blebs

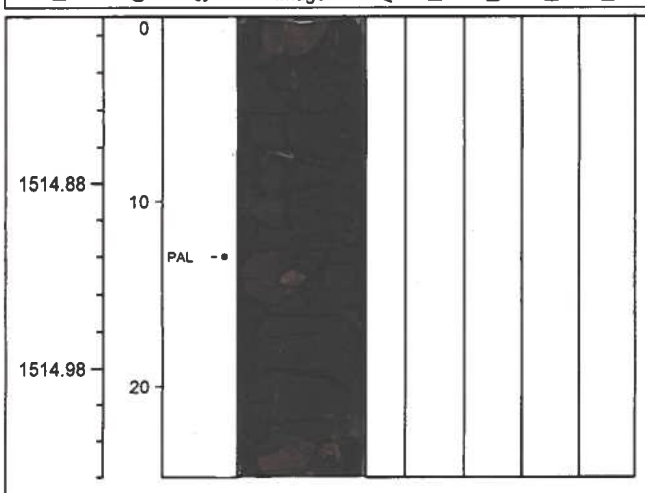
silty clay filled burrows

Hole 368X-U1503A-56R Section CC, Top of Section: 1514.79 m (CSF-A)

Sediment description

Logged by:

Date:



Hole 368X-U1503A-57R Section 1, Top of Section: 1518.4 m (CSF-A)

Sediment description

Dark brown claystone and silty claystone. Burrows filled with clayey silt indicate that some intervals fine upward.

Logged by:

Date:

Depth CSF-A (m) | Core length (cm) | Shipboard samples | Core image | Ash | Bottom contact | Bioturbation intensity | Disturbance type | Disturbance intensity | Comments

1518.40 — 0
2 — Fall in ?
1518.50 — 10
2
1518.60 — 20
27 — inclined planar Fault ?
1518.70 — 30
2
34 — clayey silt-filled burrows
2
38 — g
1518.80 — 40
1518.90 — 50 — PMAG
1
1519.00 — 60
CARB
68 — g
1519.10 — 70
2
1519.20 — 80
84 — g
1519.30 — 90
XRD
1
1519.40 — 100
1519.50 — 110
MAD
1519.60 — 120
HS

Hole 368X-U1503A-58R Section CC, Top of Section: 1528.0 m (CSF-A)

Sediment description

Dark brown claystone

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1528.00	0	SED MAD							
1528.10	10	HS							

Hole 368X-U1503A-59R Section CC, Top of Section: 1533.6 m (CSF-A)

Sediment description

Logged by:

Date:

Reddish brown clay-rich nannofossil chalk

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1533.69	0 10	HS SED MAD				H			Clay-rich nannofossil chalk. 7cm SS

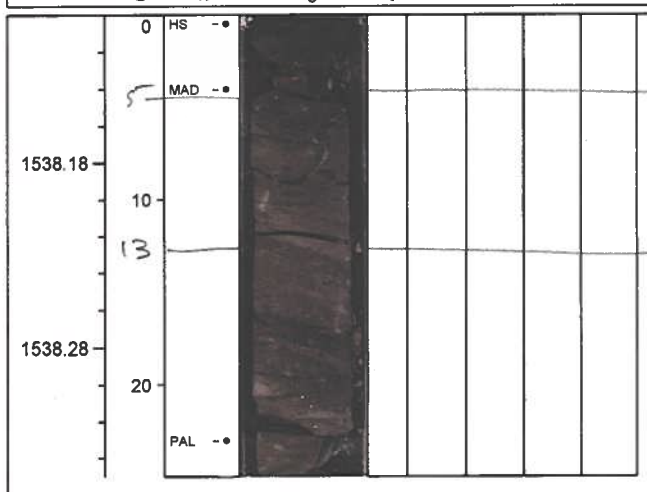
Hole 368X-U1503A-60R Section CC, Top of Section: 1538.1 m (CSF-A)

Sediment description

Logged by:

Date:

Reddish brown clay-rich nannofossil chalk.



Hole 368X-U1503A-61R Section CC, Top of Section: 1542.7 m (CSF-A)

Sediment description

Logged by:

Date:

Greenish gray nannofossil-rich claystone and reddish brown clay-rich nannofossil chalk.

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1542.70	0	HS							Fall in? Clay-rich nannofossil chalk Nannofossil-rich claystone

Hole 368X-U1503A-62R Section CC, Top of Section: 1547.7 m (CSF-A)

Sediment description

Greenish gray nannofossil-rich claystone.

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1547.70	0	HS							Nannofossil-rich claystone
		SED							
1547.80	10								

Hole 368X-U1503A-63R Section CC, Top of Section: 1552.3 m (CSF-A)

Sediment description

Greenish gray nannofossil-rich claystone with foraminifers.

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1552.30	0	HS							Nannofossil-rich clayst. with foraminifers
1552.40	10								

Hole 368X-U1503A-64R Section CC, Top of Section: 1557.3 m (CSF-A)

Sediment description

Greenish gray nannofossil-rich claystone with foraminifers.

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1557.30	0	HS							Nannofossil-rich claystone with foraminifers.
1557.40	10								

Hole 368X-U1503A-65R Section CC, Top of Section: 1561.9 m (CSF-A)

Sediment description

Greenish gray nannofossil-rich claystone with foraminifers.

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1561.90	0	HS SED PAL							Nannofossil-rich claystone with foraminifers
1562.00	10								

Hole 368X-U1503A-66R Section CC, Top of Section: 1566.9 m (CSF-A)

Sediment description

Logged by:

Date:

Same as 65R

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1566.90	0	HS							N-rich claystone with forams
1567.00	10								

Hole 368X-U1503A-67R Section CC, Top of Section: 1576.5 m (CSF-A)

Sediment description

As for 65R

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Shipboard samples	Core image	Ash	Bottom contact	Bioturbation intensity	Disturbance type	Disturbance intensity	Comments
1576.50	0	HS							N-rich clayst. with forams.
1576.60	10								

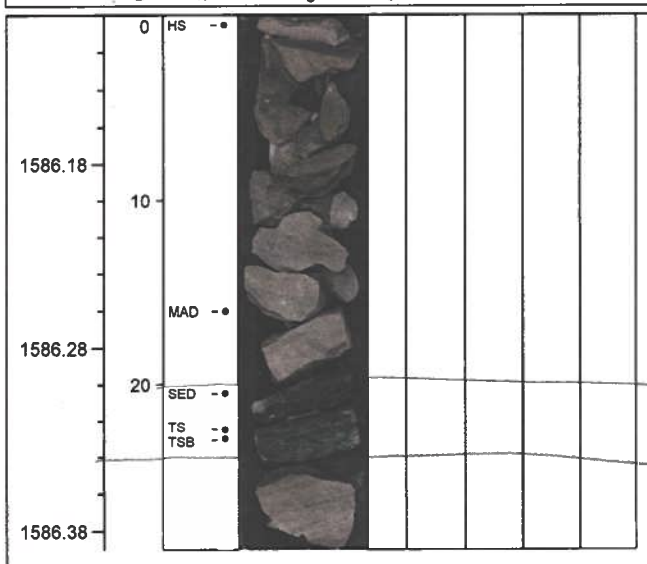
Hole 368X-U1503A-68R Section CC, Top of Section: 1586.1 m (CSF-A)

Sediment description

Logged by:

Date:

Greenish gray nannofossil-rich claystone with foraminifers and greenish black ash?



Hole 368X-U1503A-69R Section 1, Top of Section: 1595.7 m (CSF-A)

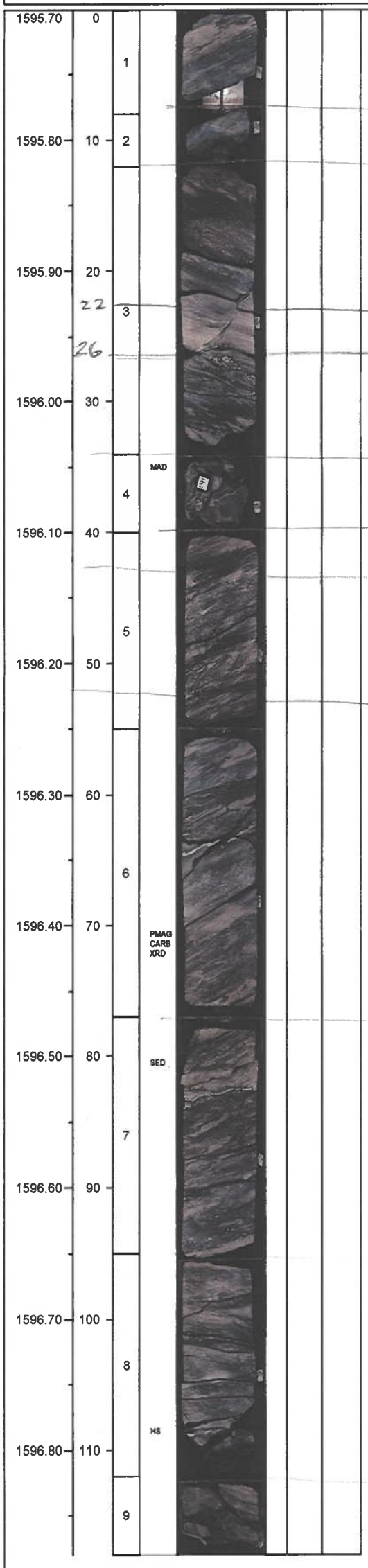
Igneous description

Dark gray laminated silty claystone, silty claystone with foraminifers, silty claystone with pyrite and clayey siltstone and light greenish gray, laminated clayey siltstone. All laminations are inclined

Logged by:

Date:

Depth CSF-A (m) | Core length (cm) | Piece number | Shipboard samples | Scanned image | Glass | Alteration intensity | Drilling disturbance | Comments



silty clastone

silty claystone

laminated silty claystone with pyrite

P

clayey siltstone laminated

irregular

silty claystone with forams

clayey siltstone

Silty claystone with pyrite

irreg

Laminated silty claystone with forams

irreg

Laminated silty claystone with pyrite

Laminated silty claystone

Laminated silty claystone with forams

Laminated silty claystone

Add Nannofossil-rich to each of the lithologies

Hole 368X-U1503A-69R Section 2, Top of Section: 1596.88 m (CSF-A)

Igneous description

Greenish gray laminated C-RNC, C-RNC with foraminifers, silty C-RNC with foraminifers, and nannofossil-rich silty claystone with forams.

Logged by:

Date: 4/16/2019

Depth CSF-A (m) | Core length (cm) | Piece number | Shipboard samples | Scanned image | Glass | Alteration intensity | Drilling disturbance | Comments

1596.90
0
1
Silty C-RNC with forams

C-RNC
= clay-rich nannofossil chalk

10
1597.00
2
Nanno-rich
Silty claystone with forams

20
1597.10
3
Nanno-rich
silty claystone with forams

30
1597.20
4
Nannofossil-rich
Silty claystone with forams

40
1597.30
5
Laminated silty C-RNC with forams

50
1597.40
6

60
1597.50
7
CARB
XRD
Cl-rich nanochalk with forams

70
1597.60
8
Laminated clay-rich nanno chalk

80
1597.70
9
MAD
PAL
PAL
Clay-rich nannofossil chalk.

90
1597.80

100
1597.90

110
10

120
1598.00

130
1598.10
11
XRD

1598.20

aphyric basalt (rubble)
- occasional plag phenocrysts
- one piece with glassy margin (altered)
- slightly altered
- veins: carbonate, Fe oxide
- pyrite mineralization (euhedral accumulation)

Hole 368X-U1503A-70R Section 1, Top of Section: 1605.0 m (CSF-A)

Igneous description

Logged by:

Date: 4/16/2019

Depth CSF-A (m) | Core length (cm) | Piece number | Shipboard samples | Scanned image | Glass | Alteration intensity | Drilling disturbance | Comments

1605.00 | 0 | 1

moderately plag-ol phyric basalt

1605.10 | 10 | PMAG | 2

R: 5-10% plag (2-3 mm) → rel. fresh } euhedral → elongate, tabular
<1% ol (1-2 mm) → altered } → equant

1605.20 | 20

1605.30 | 30 | 3

1605.40 | 40

1605.50 | 50 | 4

Add k vein fmb.

1605.60 | 60

1605.70 | 70 | 5

1605.80 | 80 | 6

1605.90 | 90 | 7

1606.00 | 100

1606.10 | 110 | 8

1606.20 | 120 | 9 | HS

sparsely ol-plag phyric basalt

R: 3-4% ol (1-2 mm) → altered (Fe ox.) } euhedral → equant
1-2% plag (2-3 mm) → rel. fresh → few glomerocrysts → elongate,

→ one piece completely different (vesicular) => similar to the top of 71R-1A

Hole 368X-U1503A-71R Section 1, Top of Section: 1610.5 m (CSF-A)

Igneous description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Piece number	Shipboard samples	Scanned image	Glass	Alteration intensity	Drilling disturbance	Comments
1610.50	0	1						← glass (one piece)
1610.60	10	2						
1610.70	20							
1610.80	30	3						← glass
1610.90	40	4						← glass.
1611.00	50	5						
1611.10	60	6	FMAG					← glass
1611.20	70							← glass
1611.30	80	7						← glass
1611.40	90	8						← glass (piece 8?)
1611.50	100							
1611.60	110	9						
1611.70	120	10						
1611.80	130	11						
1611.90	140							

variation of pc abundance within the section (some segregation) from sparsely to moderately phyric pl-ol phyric basalt

Hole 368X-U1503A-72R Section 1, Top of Section: 1614.5 m (CSF-A)

Igneous description

Logged by:

Date: 4/16/2019

Depth CSF-A (m)	Core length (cm)	Piece number	Shipboard samples	Scanned image	Glass	Alteration intensity	Drilling disturbance	Comments
1614.50	0	1						
1614.60	10	2						
1614.70	20	3						
1614.80	30	4	TS PMAG					
1614.90	40	5						
1615.00	50	6						
1615.10	60	7						
1615.20	70	8						
1615.30	80							
1615.40	90	9						
1615.50	100	10						

ALTERATION:

74R-2A -

0-28 : Sparsely vesicular, vein/vein.: Fe oxide, ~~carb.~~ black color, vein: yes

31-41 : vein ✓

42-52 : vein ✓ (pyrite)

52-65 : vein ✓

65-~~73~~ :

Hole 368X-U1503A-72R Section 2, Top of Section: 1615.59 m (CSF-A)

Igneous description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Piece number	Shipboard samples	Scanned image	Glass	Alteration intensity	Drilling disturbance	Comments
	0	1						Sparsely ol-pl phyric #
1615.66	10	2						5% PC 3% ol, 2% pl (3/1mm) (5/2mm)
1615.76		3						3% PC: ol (2%) (2/1mm), pl (1%) (2/1mm)
	20	4				Slightly		moderately phyric (ol-pl) 10% 6% ol: 4% pl (5/2mm) (5/1mm)
1615.86	30	5						sparsely pl-ol phyric 1-2% PC: 1% pl, <1% ol (3/1mm) (2/1mm)
1615.96		6	X			X		
	40	7	X			Sparse		Sparsely ol-pl phyric 3% PC: 2% ol, 1% pl (3/1mm) (4/1mm)
1616.06	50	8	?		Y	Sparse		
		9	?		Y	X		sediment (peperite, chert)
1616.16								

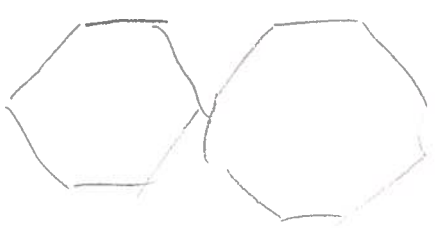
Hole 368X-U1503A-73R Section 1, Top of Section: 1618.7 m (CSF-A)

Igneous description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Piece number	Shipboard samples	Scanned image	Glass	Alteration intensity	Drilling disturbance	Comments
1618.70	0	1	✓					Sparsely pl phyric, moderately altered PC: Pl abundance = 1% ↳ fresh to moderately altered ↳ 3/1 mm ⇒ gm: microcrystalline
1618.80	10	2	✓					
1618.90	20	3	✓					
1619.00	30							
1619.10	40	4	✓					moderately phyric (pl-ol), slightly altered PC abundance: 5% ↳ 3% pl, 2% ol (3/1 mm) (2/1 mm) ⇒ gm microcrystalline
1619.20	50							
1619.30	60	5	✓					
1619.40	70							
1619.50	80	6	✓					
1619.60	90	7	X					
		8	✓					
1619.70	100	9	X					aphyric, moderately altered PC < 1% (occ. plag, 1mm) → vesicles: 1-2mm → fine-grained moderately vesicular ↳ filled with Fe oxide
1619.80	110	10	✓					
		11	✓					
1619.90	120	12	✓					

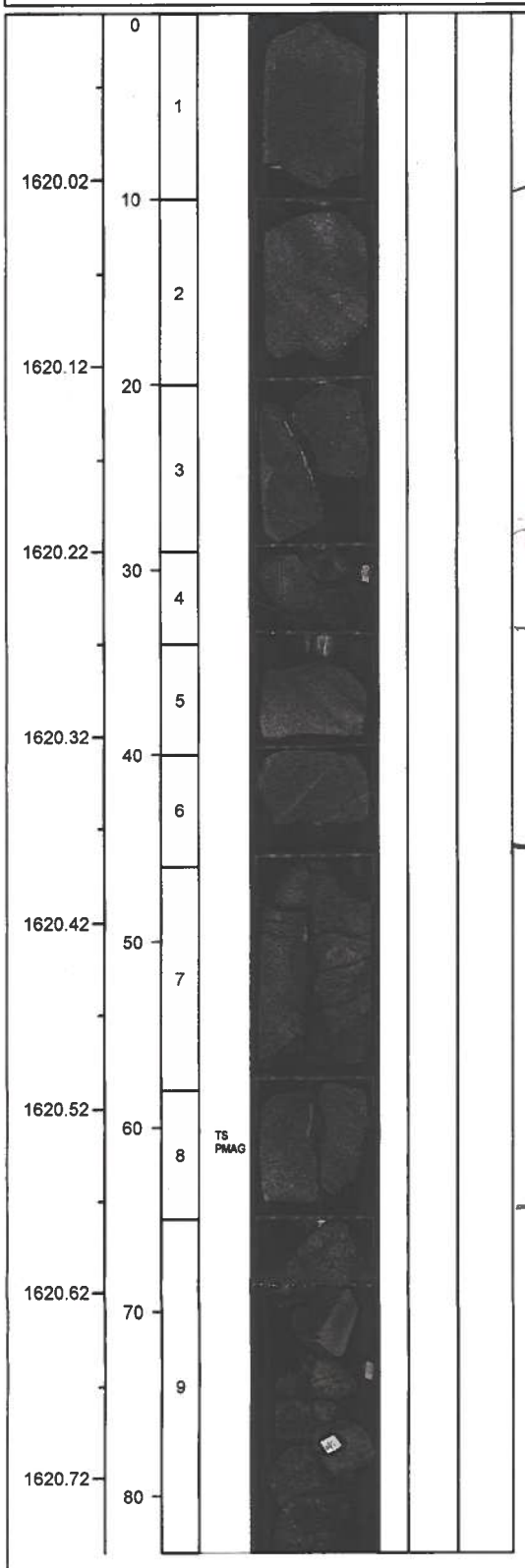


Hole 368X-U1503A-73R Section 2, Top of Section: 1619.93 m (CSF-A)

Igneous description

Logged by:

Date:



Sparsely 1% pl
veins with pyrite
moderately altered

vesicle 12% 1~2mm
fine-grained pyritic basalt

Sparsely 2% pl
(2-4 mm)
vein with carbonate
moderately altered

vesicle 15% 1~3mm
fine-grained. pyritic

Sparsely 1% pl 1-3 mm
fine-vein with carbonate
slight altered

fine-grained
vesicle 3%

Sparsely 1% pl 1-3 mm.
coarse vein with abundent pyrite.
moderately altered
vesicle 4%

Sparrely 1~3% 1~2 mm
fine-veins
moderately altered.
vesicle 4-6% 1~2mm

fine-grained

Hole 368X-U1503A-74R Section 1, Top of Section: 1623.7 m (CSF-A)

Igneous description

Logged by:

Date: 16/4/2019

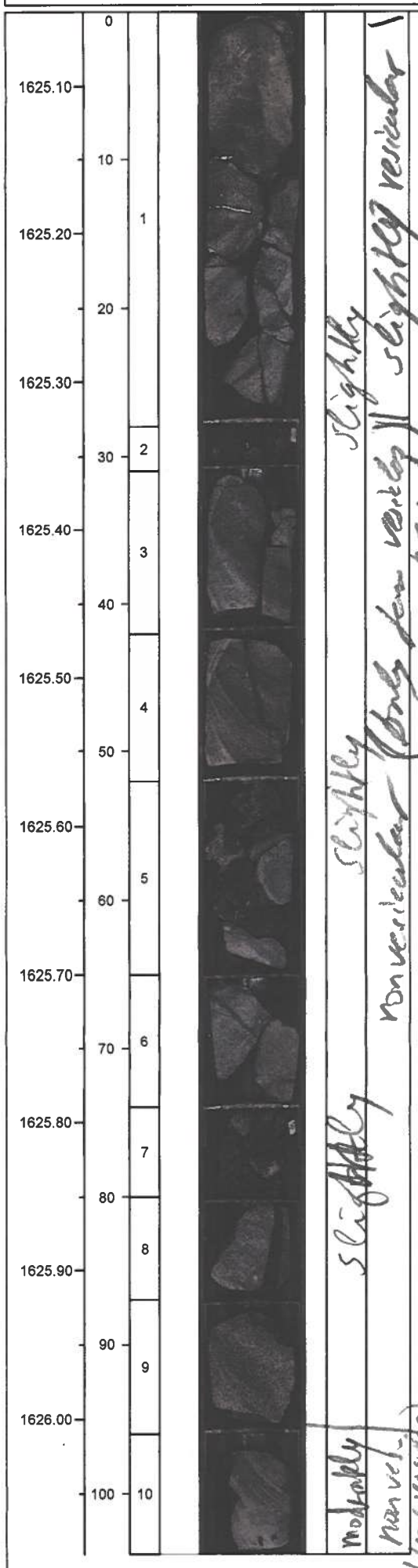
Depth CSF-A (m)	Core length (cm)	Piece number	Shipboard samples	Scanned image	Glass	Alteration intensity	Drilling disturbance	Comments
1623.70	0	1						a piece of chert
1623.80	10	2	d-c					Sparsely 2% pl 1-3 mm fine-grained vesicle 15% 1-3 mm. moderately altered
		3	d-c					
1623.90	20							
1624.00	30	4	PMAG d					Sparsely 3% pl 1-3 mm fine-grained vesicle 5%. some angular vesicle filling with dark materials. moderately altered.
1624.10	40	5	d-c					
		6	d-c					sparsely 5% pl 1-4 mm fine-grained vesicle 5% (1~3mm). vein fine (dark) coarse with carbonate.
1624.20	50	7	d-c					
		8						altered Basalt OR sediments (clay)? (heavy) with structure similar to basalt
1624.30	60							
		9	d-c					Sparsely 1~2 pl (1~2mm) fine-grained vesicle 5-15% (1-3mm). coarse veins (with carbonate & pyrite)
1624.40	70							
1624.50	80	10	d					
1624.60	90							
		11	d-c					
1624.70	100							
1624.80	110	12	d					Sparely 1-3% pl (1-3 mm). fine-grained vesicle 3-5% (1-3 mm) veins with carbonate
1624.90	120							
		13	d					
1625.00	130							

Hole 368X-U1503A-74R Section 2, Top of Section: 1625.05 m (CSF-A)

Igneous description

Logged by:

Date: 4/16/2019



sparsely pl phyric basalt

- 5% PC
  - ↳ (4 / 2 mm)
  - ↳ slightly altered to completely replaced by Fe oxide / celadonite / saponite (?) mixture (forming pl pseudomorphs)
- gm = fine-grained

pl PC : 5 / 2 mm

pl PC : 1% ab., 2 / 1 mm

pl PC : 1% ab., 4 / 1 mm

pl PC : 1% ab., 3 / 1 mm

pl PC : 1% ab., 2 / 1 mm

pl PC : 5% ab., 3 / 1 mm

- ↳ pseudomorphs : completely replaced by Fe oxide-dominated majority mixture of minerals
- ↳ gm : microcrystalline
- ↳ two large vesicles (5-6 mm) filled with Fe ox. + pyrite
- ↳ bulk rock : moderately altered

Hole 368X-U1503A-75R Section 1, Top of Section: 1628.0 m (CSF-A)

Igneous description

Logged by:

Date:

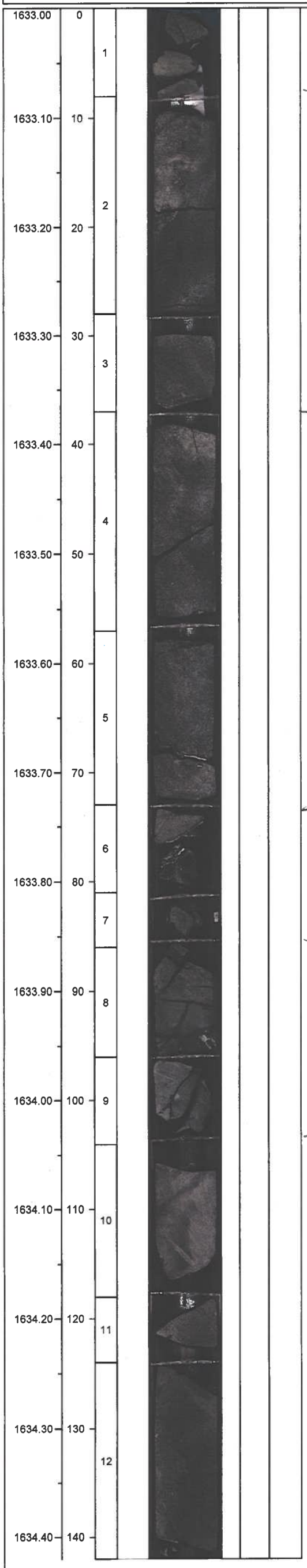
Depth CSF-A (m)	Core length (cm)	Piece number	Shipboard samples	Scanned image	Glass	Alteration intensity	Drilling disturbance	Comments
1628.00	0	1						Aphyric fine-grained moderately Altered vesicle 1% (1mm)
1628.10	10	2						
1628.20	20	3						
1628.30	30	4	PMAG					Aphyric fine-grained moderately altered veines. with pyrite & carbonate vesicle 1% (0.5-1 mm)
1628.40	40	5						
1628.50	50	6						
1628.60	60	7						Sparsely. 1~2% Pl. fine-grained moderately altered vesicles 1-3% (1-3mm)
1628.70	70	8						
1628.80	80	9						
1628.90	90							
1629.00	100	10						Sparsely 1% Pl. fine-grained moderately altered vesicles (1-3%) 1-3mm

Hole 368X-U1503A-76R Section 1, Top of Section: 1633.0 m (CSF-A)

Igneous description

Logged by:

Date:



Comments

Sparsely Pl 1% (1-3mm), fine-grained, aphyric ~ phyric
slightly altered, vesicle 2% (1-2mm).

Sparsely 3% Pl. (1~5mm). phyric

slightly altered.

vesicle 5-10% carbonite, Pyrite.

vein, 8.5~28.5, 29~37.

sparsely 3% Pl (1~8mm) phyric

slightly altered

vesicle 3% (1~2mm)

vein '38-57', 57~73 (carbonate. pyrite)

Sparsely 1% Pl (1~2mm)
moderately altered, vesicle 3%
vein 74-82

Sparsely 1% Pl (1-6mm)

slightly altered.

vesicle 5%
vein coarse vein (86-96) fine vein (97-104)

Sparsely 2% Pl (1-6mm)

slightly altered

fine veins (104-118, 118-124, 125-142)

vesicle 5% (1-4mm)

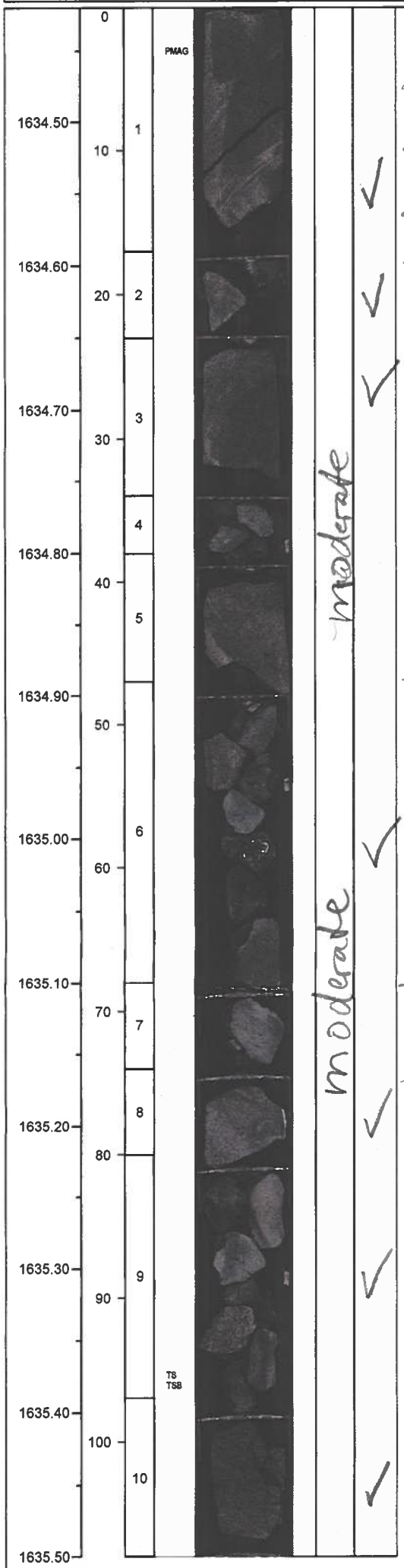
Hole 368X-U1503A-76R Section 2, Top of Section: 1634.42 m (CSF-A)

Igneous description

Logged by:

Date: 4/17 2

Depth CSF-A (m) | Core length (cm) | Piece number | Shipboard samples | Scanned image | Glass | Alteration intensity | ~~Drilling disturbance~~ Veins | Comments



1634.50 | 0 | 10 | 1 | moderate

moderately pl phyric
- pl ab. 10%, 5 / 2 mm, elongate to tabular
- gm: fine-grained
- pl partly to fully replaced by Fe-oxide

1634.60 | 20 | 2 | ✓

moderately phyric — fine-grained
Pl 3-1 mm 6-1 %
1% 01
2-1 mm
altered

1634.70 | 30 | 3 | ✓

moderate phyric → partially-fully altered

1634.80 | 40 | 4 | 5

moderate phyric

moderate phyric

1634.90 | 50

sparsely phyric — fine grained
Pl 5 % 4-1 mm
partially-fully dark altered
0.5 % 01
2-1 mm
altered

1635.00 | 60 | 6 | ✓

1635.10 | 70 | 7

sparsely phyric (partially-fully altered) microcrystalline
Pl 6-2 mm 4.5%
01
0.5 %
2-1 mm

1635.20 | 80 | 8 | ✓

sparsely phyric (partially-fully altered) fine grained
Pl 1% 1-1 mm
—
sparsely vesicular : dark green with light core

1635.30 | 90 | 9 | ✓

sparsely phyr (slightly-fully altered microcrystalline
Pl 2% 2-1 mm
0.5 % 01

slightly vesicular : dark green + very light green with dark rim + pyrite filled with dark green

1635.40 | 100 | 10 | ✓

sparsely phyric (slightly-fully altered) fine-grained
Pl 1% 5-2 mm
—
moderately vesicular : ~~dark green~~ + dark rim with light core

1635.50

Hole 368X-U1503A-77R Section 1, Top of Section: 1638.2 m (CSF-A)

Igneous description

Logged by:

Date:

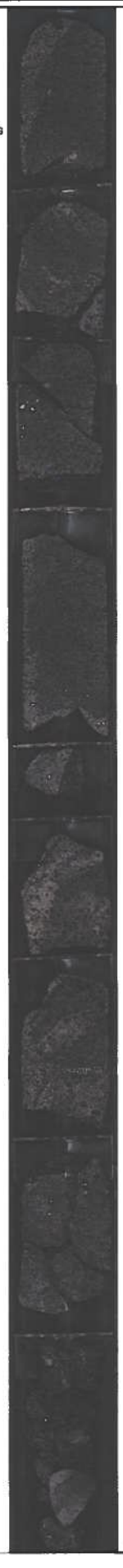
Depth CSF-A (m)	Core length (cm)	Piece number	Shipboard samples	Scanned image	Glass	Alteration intensity	Drilling disturbance	Comments
1638.20	0							Sparsely. 2-3% pl. (1-2mm) slightly altered vesicle 3% (1-3mm) veins "0~24".
1638.30	10	1	✓					
1638.40	20							
1638.50	30	2	✓					Sparsely 3% pl (1-3mm) moderately altered vesicle 3% (1-5mm) veins 24-33. 33-37, 38-49 carbonite
		3	✓					
1638.60	40	4	✓					
1638.70	50	5						
1638.80	60	6						Sparsely 3% pl (1-4mm) slightly altered vesicle 5% (1-3mm) veins = fine 57-63. 64-79. coarse vein (carbonite) 57-63.
1638.90	70	7						
1639.00	80	8						Sparsely 1% pl. (1-3mm) moderately altered vesicle 3% (1-3mm) veins. fine with pyrite 80-87 88-95
1639.10	90	9						
		10						
1639.20	100	11						Sparsely 1% pl (1-3mm) moderately altered vesicle. 15% (1~3mm) with pyrite veins 99-108. 118-125 with pyrite
1639.30	110	12						
1639.40	120	13						
		14						
1639.50	130							

Hole 368X-U1503A-77R Section 2, Top of Section: 1639.51 m (CSF-A)

Igneous description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Piece number	Shipboard samples	Scanned image	Glass	Alteration intensity	Drilling disturbance	Comments
1639.60	0	1	PMAG			✓		g Sparsely 1% pl (1-2mm)
	10	2				✓		g moderately altered
1639.70	20	3				✓		g vesicle 30% (1-5mm) with carbonate & pyrite w/g for veins fine 0-12, 12-22, 22-33. with pyrite, carbonate
1639.80	30							
1639.90	40	4						g w
1640.00	50	5						g/w
		6						g/w
1640.10	60							
		7						g/w
1640.20	70							
		8						g/w dk green-grey light green
1640.30	80							
1640.40	90	9						green
1640.50	100							

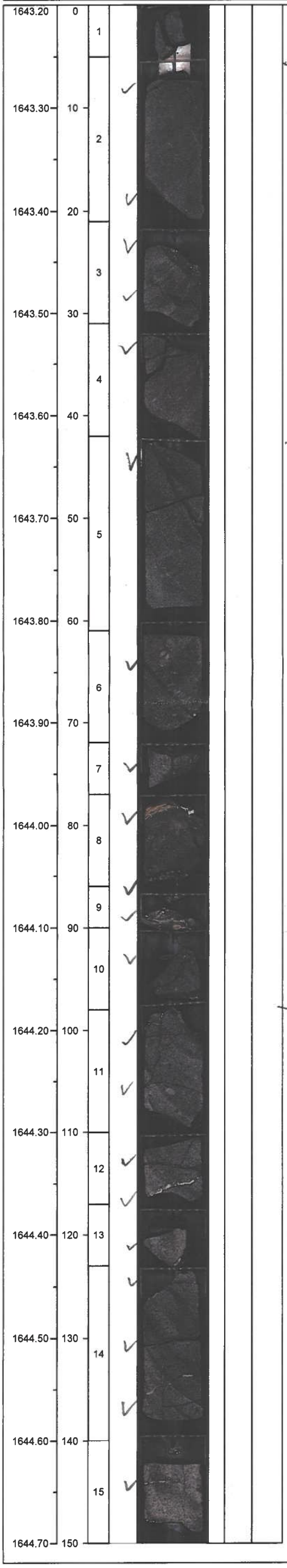
Hole 368X-U1503A-78R Section 1, Top of Section: 1643.2 m (CSF-A)

Igneous description

Logged by:

Date:

Depth CSF-A (m) | Core length (cm) | Piece number | Shipboard samples | Scanned image | Glass | Alteration intensity | Drilling disturbance | Comments



1643.20 | 0 | 1

sparsely 1% pl. (1mm)
slightly altered. vesicle 2% (1~2mm)

dark

1643.30 | 10 | 2

moderately 9% pl (1 - 10 mm)

dark pyrite

1643.40 | 20 | 3

slightly altered

vesicle. 1% (a few 1mm)

dark pyrite

1643.50 | 30 | 4

veins fine - coarse. with carbonate.
5 - 22, 22 - 32, 32 - 42

dark

1643.60 | 40

1643.70 | 50 | 5

moderately 6% pl. (2~8mm)
Slightly altered
vesicle 3% (1-3mm)

dark

1643.80 | 60

veins, coarse, with pyrite. 43-59. 61-70. 72-76. 77-86.

1643.90 | 70 | 6 | 7

87-90, 90-97. → pyrite & carbonate

1644.00 | 80 | 8

dark pyrite

1644.10 | 90 | 9 | 10

dark

1644.20 | 100 | 11

moderately 7% pl (1 ~ 10 mm)

dark

1644.30 | 110 | 12

slightly altered
vesicle 5% (1~3 mm)

dark

1644.40 | 120 | 13

veins with carbonate & pyrite
98 - 110, 110 - 117. 118 - 123 124 - 138. 140 - 147

1644.50 | 130 | 14

dark

1644.60 | 140

tight

1644.70 | 150 | 15

Hole 368X-U1503A-78R Section 2, Top of Section: 1644.7 m (CSF-A)

Igneous description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Piece number	Shipboard samples	Scanned image	Glass	Alteration intensity	Drilling disturbance	Comments
1644.70	0	1	✓					sparsely 4% pl (1-4mm) slightly altered vesicle 3% (1-3mm) veins with carbonate, pyrite 1-10, 10-23, 23-31
1644.80	10							dark
1644.90	20	2	✓					dark
		3	✓					dark + pyrite
1645.00	30	4						
1645.10	40	5	✓					moderately 7% pl (1-5mm) slightly altered vesicle 6% (1-4mm) veins with carbonate, pyrite 36-45, 45-55, 55-65 66-75 76-86, 87-96, 97-103, 103-109 109-117, 123-135. dark
1645.20	50	6	✓					
1645.30	60	7	✓					
			✓					
1645.40	70	8	✓					
1645.50	80	9	✓					
1645.60	90	10	✓					
1645.70	100	11	✓					
		12	✓					
1645.80	110	13	✓					
			✓					
1645.90	120	14						
1646.00	130	15	✓ PMAG					

Hole 368X-U1503A-78R Section 3, Top of Section: 1646.06 m (CSF-A)

Igneous description

Logged by: Toby + Froukje

Date: 17/4/2019

Depth CSF-A (m) | Core length (cm) | Piece number | Shipboard samples | Scanned image | Glass | Alteration intensity | Drilling disturbance | veins | Comments

1646.10 | 0 | 1 | X

moderately phyric
Pl 8% 6-3mm
↳ relatively fresh

fine-grained

non-vesicular

2% Ol 4-2mm
altered

1646.20 | 10 | 2 | X

1646.30 | 20 | 3 | X

1646.40 | 30 | 4 | X

1646.50 | 40 | 5 | X

1646.60 | 50 | 6 | X | slightly

moderately phyric
Pl 6% 4-2mm
↳ relatively fresh - moderately altered

fine-grained

2% Ol
4-2mm
altered

Pl 6-2mm

1646.70 | 60 | 7 | X

non-vesicular

1646.80 | 70 | 8 | X

sparsely phyric
Pl 2% 3-1 mm
↳ partly-fully replaced

microcrystalline

0.5%
<1mm
altered

1646.90 | 80 | 9 | X

non-vesicular

1647.00 | 90 | 10 | X

1647.10 | 100 | 11 | X | moderately

1647.20 | 110 | 12 | X

chilled margin; brecciation

same as previous
no Ol

13 | 120

Hole 368X-U1503A-78R Section 4, Top of Section: 1647.26 m (CSF-A)

Igneous description

Logged by:

Date: 15/4/2019

Depth CSF-A (m)	Core length (cm)	Piece number	Shipboard samples	Alteration intensity	Drilling disturbance	Veins	Comments
1647.34	0	1			✓		Sparsely-phyric Pl 1% 3-1,5 mm altered ~~moderate~~ fresh - fully replaced non vesicular microxlline
1647.44	10	2			✓		Sparsely phyric Pl 2% 3-1,5 mm Pl more altered moderate-fully non vesicular microxlline 1%01 1-1 mm
1647.54	20	3			✓		as nr 1 Pl moderate - fully altered
1647.64	30	4		moderate	✓		sparsely phyric Pl 4,5% 3-1,5 mm L> moderate-fully altered non vesicular microxlline 0,5%01 1-1mm
1647.74	40	5					sparsely phyric Pl 1% 1-1 mm L> altered non-vesicular micro xll accesoiry 01 1mm
1647.84	50	6					
	60	7			✓		as nr. 2 Pl 5-1,5mm

Hole 368X-U1503A-79R Section 1, Top of Section: 1647.7 m (CSF-A)

Igneous description

Logged by: Tobias, routyc

Date: 15/4/2019

Depth CSF-A (m)	Core length (cm)	Piece number	Shipboard samples	Scanned image	Glass	Alteration intensity	Drilling disturbance	Veins	phyric	Pl	Ol	Comments GM	vesicles
1647.70	0	1				moder.		✓	sparsely	1% 1-0,5 mm altered		microxlline	non
			SED										
1647.80	10		HS						X				
		2				4							
1647.90	20												
		3				chilled? chilled margin; moderately altered		✓	sparsely	1% 1-0,5 mm altered		microxll	non
1648.00	30												
		4						✓	as (1) sparsely	2% 1-0,5 mm altered		microxll	non
1648.10	40												
		5						✓					
								✓	aphyric inequigranular	<1% micro pheroxst	Pl + Ol	finegrained	non
1648.20	50	6						✓					
1648.30	60	7	PMAG					✓					
1648.40	70	8						✓					
						altered							
1648.50	80	9						✓					
		10				moderately		✓					
1648.60	90												
		11						✓					
1648.70	100												
		12											
1648.80	110												
		13						✓					

concentric mm layers with altered sediment/ and altered glass devitrified, fractured in core 1mm Pl pheroxst

4

Hole 368X-U1503A-80R Section 1, Top of Section: 1652.7 m (CSF-A)

Igneous description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Piece number	Shipboard samples	Scanned image	Glass	Alteration intensity	Drilling disturbance
1652.70	0	1					
1652.80	10	2					✓
1652.90	20	3					✓
1653.00	30						
1653.10	40	4					✓
1653.20	50						
1653.30	60	5					✓
1653.40	70	6	slightly		non		✓
1653.50	80						
1653.60	90	7					
1653.70	100	8					
1653.80	110						
1653.90	120						✓
1654.00	130						

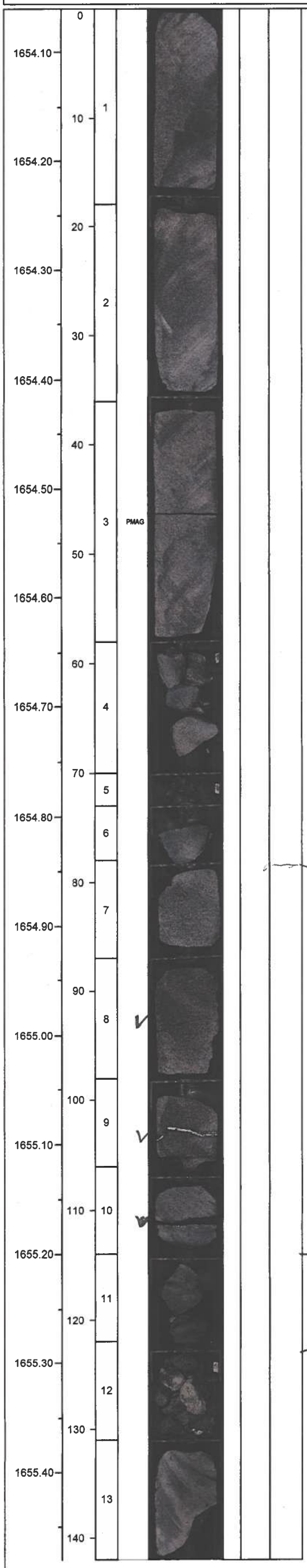
phyric	Pl	Ol	Comments	GM	vesicles
Sediment					
~~glassy grained~~ aphyric inequigranular	<1% 2-1mm (microphyrocrysts)	<1% 2-1mm		fine grained	non

Hole 368X-U1503A-80R Section 2, Top of Section: 1654.06 m (CSF-A)

Igneous description

Logged by:

Date:



Comments

Sparsely 1% pl (1-2mm)

slightly altered

no vesicle

no vein

Sparsely 1-2% pl (1-2 mm)

Slightly altered

vesicle 1% (0.5-1 mm)

veins fine - coarse with carbonate

87-98, 98-106, 107-113.

---

sparsely 3% pl (1-6mm)

slightly altered vesicle 2% (0.5-1mm)

no vein

---

sparsely 3% pl (1-3mm)

moderately altered

vesicle 1% (0.5-1mm)

no vein

Hole 368X-U1503A-80R Section 3, Top of Section: 1655.48 m (CSF-A)

Igneous description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Piece number	Shipboard samples	Scanned image	Glass	Alteration intensity	Drilling disturbance	Comments
1655.48	0							
		1						
1655.58	10							
		2						
1655.68	20		✓					
		3	✓					
1655.78	30							
		4	✓					
1655.88	40	5						
		6						
1655.98	50		✓					
		7	XRF					

Sparsely 1% pl (1-3 mm)
slightly altered
vesicle 1% (0.5-2 mm)
veins fine 15-22, 22-27 27-37

Spursely 1% pl (1-2mm)
slightly altered
vesicle 2% (0.5-3mm)
vein 44-51

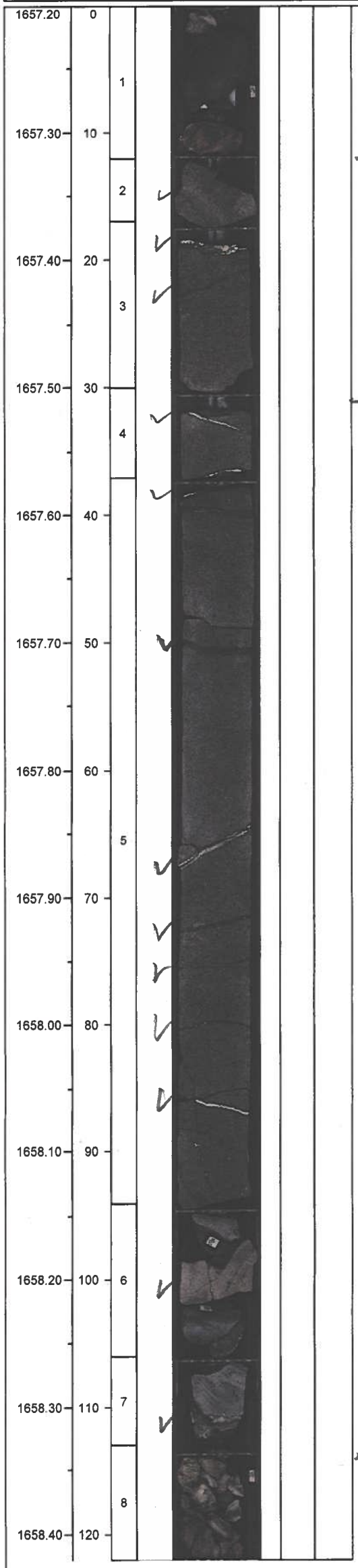
Hole 368X-U1503A-81R Section 1, Top of Section: 1657.2 m (CSF-A)

Igneous description

Logged by:

Date:

Depth CSF-A (m) | Core length (cm) | Piece number | Shipboard samples | Scanned image | Glass | Alteration intensity | Drilling disturbance | Comments



clay

sparsely 1% pl (1-7mm)
slightly altered
vesicle 3% (1-3mm)
vein 18-30, 12-18 with carbonate, Pyrite

sparsely 2% pl (1-4mm)
moderately altered
vesicle 5% (1-4mm)
vein. 31-37. 37-94 94-106. 106-113
with carbonate & Pyrite.

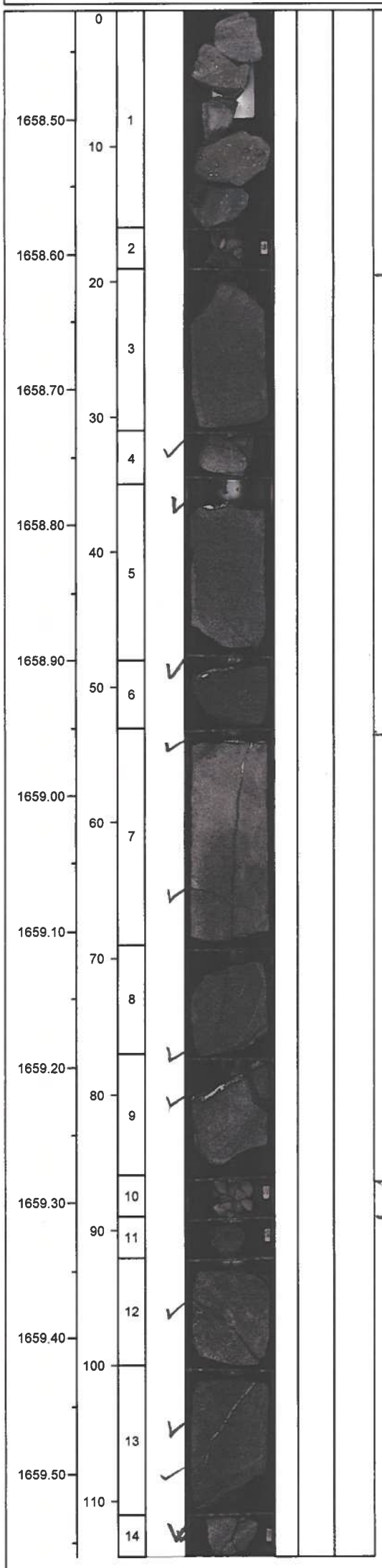
clay

Hole 368X-U1503A-81R Section 2, Top of Section: 1658.42 m (CSF-A)

Igneous description

Logged by:

Date:



Comments

moderately 2~10% pl (1-7mm)
slightly altered
vesicles 2% (1~2mm)
no vein

---

sparsely 5% pl (1-4mm)
slightly altered
vesicle. 2% (1-2mm)
veins with carbonate
32-35, 35-46. 48-53

---

spursely 4% pl (1-2mm)
slightly altered
vesicle 2% (1-2mm)
veins with carbonate. pyrite
54-69, 69-78. 78-86

---

sediment

---

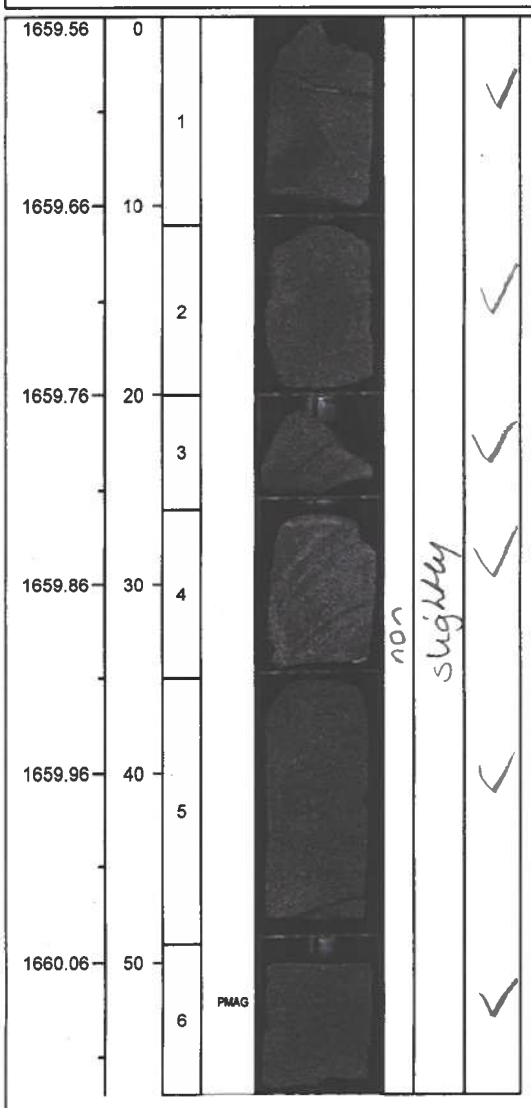
spursely 3% pl (1-4mm)
slightly altered
vesicle. 3% (1-2mm)
vein. with carbonate.
93-101, 101-111, 111-11

Hole 368X-U1503A-81R Section 3, Top of Section: 1659.56 m (CSF-A)

Igneous description

Logged by:

Date: 15/11/2019



Phyric	Pl	Ol	Comments	GM	Vesicles
sparsely	7% 5-3 mm fresh-slightly altered tabulae-elongated	<0,5% 1-1 mm altered		fine-grained	non

Hole 368X-U1503A-82R Section 1, Top of Section: 1662.2 m (CSF-A)

Igneous description

Logged by:

Date:

Depth CSF-A (m) | Core length (cm) | Piece number | Shipboard samples | Scanned image | Glass | Alteration intensity | ~~Drilling disturbance~~ Veins

Phyric | Pl | Ol | Comments | GM | Vesicles

1662.20 | 0 | 1 | sediment

1662.30 | 10 | 2 | Y: altered | highly | sparsely | 1% 2-1 mm fresh-part. altered | — | microlithic | —

1662.40 | 20 | 3 | sediment

4 | moderate | 6.5% 4-2 mm fresh-part. altered | 0,5% 1-1 mm altered-fresh? | microlithic | —

1662.50 | 30 | 5 | ✓ | ~~moderate~~ sparsely | 2,5% 4-2 mm fresh-partial alter. | 0,5% 1-1 mm altered | fine grained | —

6 | ✓ | moderate | 8% 5-2 mm fresh-altered | 0,5% 1-1 mm altered | fine grained | —

1662.60 | 40 | ~~moderate~~

1662.70 | 50 | 7 | ✓ | sparsely | 1% 4-2 mm fresh-part. altered | <1% accesory 1-1 mm altered | fine grained | —

1662.80 | 60 | 8 | ✓ | moderate | 6% 5-2 mm fresh-slightly alt. | 1% 1-1mm altered | fine grained | —

1662.90 | 70

9 | ✓ | moderate | 6% 4-1,5mm fresh-slightly altered | 1% 1-1 mm altered | fine grained | —

1663.00 | 80 | 10 | slightly | sparsely | 4,5% 2-1 mm fresh-slightly | 0,5% ≤1 0,5mm altered | fine grained | —

1663.10 | 90 | 11 | ✓ | sparsely | 4% 3-1 mm fresh-slightly | 1% 1-0,5mm altered | fine grained | —

1663.20 | 100

1663.30 | 110 | 12 | ✓ | = (11)

1663.40 | 120 | 13 | sparsely | 1% 3-1 mm fresh-slightly | accesory 1-1 mm altered | fine grained | —

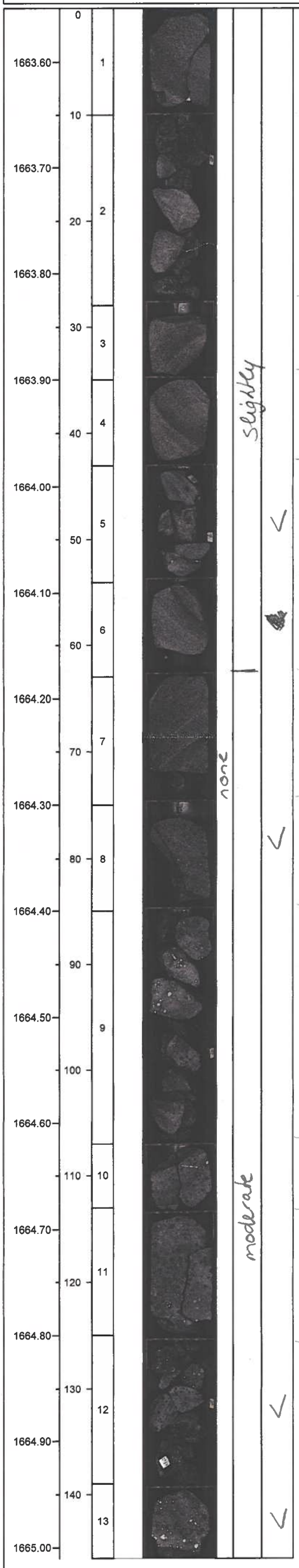
1663.50 | 130 | 14 | sparsely | 0,5% 2-1 mm fresh-slightly | 1% 2-1 mm altered | fine grained | —

Hole 368X-U1503A-82R Section 2, Top of Section: 1663.55 m (CSF-A)

Igneous description

Logged by:

Date:



Phyric	Pl	Ol	Comments GM	Vesicles
sparsely	2% 3-2 mm fresh-slightly	1% 1-1 mm ↳ altered dark x ll; exol??	finegrained	—
sparsely	0,5% 2-1 mm fresh-slightly	0,5% 1-0,5mm altered dark x ll : exol?	finegrained	—
sparsely	1,5% 3-1mm fresh-slightly	0,5% 1-1 mm dark altered x ll exol?	finegrained	—
moderately	8% 4-2 mm fresh-slightly	2% 2-1 mm dark altered x ll exol?	finegrained	—
as (4)			finegrained	—
sparsely	4% 4-2 mm fresh-slightly	1% 1-1 mm dark altered x ll : exol?	finegrained	—
moderate	7% 4-2 mm fresh-partially altered	—	finegrained	moderate - dark with light core - dark with white core
sparsely	1% 4-2 mm fresh-partially altered	—	finegrained	moderate - white with dark rim - dark with light core
sparsely	1% 2-1 mm partially altered	—	finegrained	moderate - white - dark green - dark - light core - variations
sparsely	1% 1-0,5 mm fresh-partially altered	—	finegrained	moderate - dark - white ± dark with light rim
sparsely	1% 4-2 mm ~~fresh~~ partially altered	—	finegrained	highly - dark - dark with light rim - dark with white tabular x lls
aphyric inequigranular			finegrained	highly - dark - white - dark + light rim - dark + white x lls
sparsely	1% 5-2 mm partially altered	—	finegrained	moderately - dark - white - dark + white x lls - dark + pyrite

Hole 368X-U1503A-83R Section 1, Top of Section: 1666.8 m (CSF-A)

Igneous description

Logged by:

Date:

Depth CSF-A (m) | Core length (cm) | Piece number | Shipboard samples | Scanned image | Glass | Alteration intensity | Drilling disturbance | Veins

Phyric P1 01 Comments GM Vesicles

1666.80 | 0 | 1 | sediment

Depth CSF-A (m)	Core length (cm)	Piece number	Veins				
		2		sparsely	3% 3-1mm fresh	2% 2-0.5mm dark altered	microxline	–
1666.90	10	3		sparsely	2% 3-1mm partially altered	–	finegrained	moderately – dark – white – combined
				sparsely	1% 2-1mm fresh-partially altered	–	finegrained	moderately – dark – white – dark with light rim
1667.00	20	4	✓					
1667.10	30			sparsely	5% 4-2 mm fresh-lightly altered	–	finegrained	moderately – dark – white with dark rim – dark + light rim
1667.20	40	5	✓					
1667.30	50							
1667.40	60	6	✓	sparsely	5% 4-2 mm fresh-lightly altered	–	finegrained	sparsely – dark – white + dark rim
				sparsely	5% 4-2 mm fresh-lightly altered	–	finegrained	sparsely – dark – white + dark rim – dark + pyrite
1667.50	70	7	✓					
				+ slicken sides in veins				
1667.60	80	8	✓	⑨			finegrained	sparsely – dark – dark + white xlls
				sparsely	2% 3-1mm fresh-lightly altered	–	finegrained	sparsely – dark + light rim – white + dark rim
1667.70	90	9	✓					
				~~moderately~~ sparsely	~~3%~~ 1% 4-1 mm fresh-lightly altered	–	finegrained	sparsely – dark + light rim – white + dark rim
1667.80	100	10	✓					
				sparsely	2% 4-1 mm fresh-slightly altered	–	finegrained	sparsely – dark – white + dark rim
1667.90	110	11	✓					
				sparsely	5% 5-2 mm fresh-slightly altered	–	finegrained	moderately – dark – dark + light rim – white + dark rim
1668.00	120	12	✓				finegrained	moderately – dark
				sparsely	1% 3-1 mm altered slightly-partially		finegrained	moderately – dark – dark + white xlls
1668.10	130	13	✓	= (13)			finegrained	sparsely – dark – dark + white xlls
		14	✓					
1668.20	140	15	✓	= (13)				

core

moderate

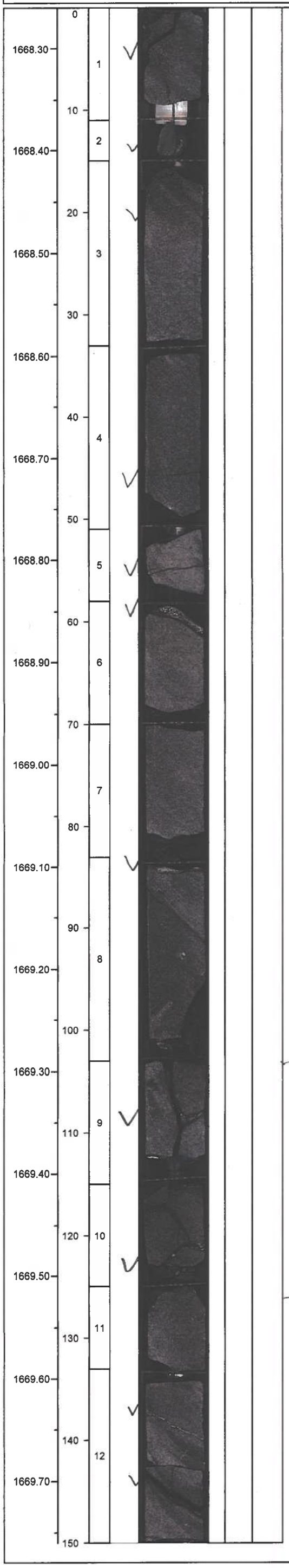
Hole 368X-U1503A-83R Section 2, Top of Section: 1668.26 m (CSF-A)

Igneous description

Logged by:

Date:

Depth CSF-A (m) | Core length (cm) | Piece number | Shipboard samples | Scanned image | Glass | Alteration intensity | Drilling disturbance | Comments



moderately 7% pl (1-6mm).
slightly altered
vesicle 2% (1-2mm).
Veins. fine to coarse. with carbonate & pyrite
1-11. 11-15. 15-33. 33-51. 51-58. 58-70. 70-83. 84-103.

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moderately 6% pl (1-4mm)
slightly altered
Vesicle 1% (1-2mm)
Veins, coarse, with carbonate and pyrite.
103-115, 115-125

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moderately 7% pl. (1-6mm)
slightly altered
Vesicle 1% (4mm)
Veins. fine-coarse with carbonate & pyrite
134-150

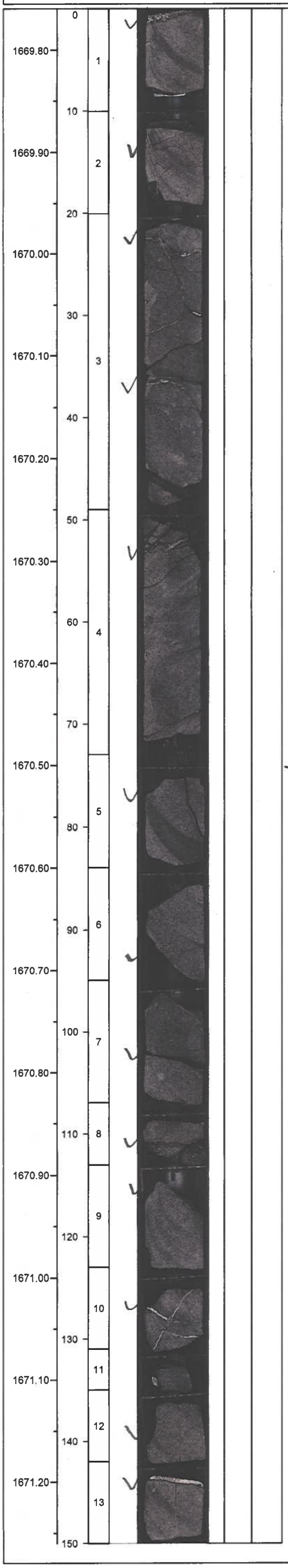
Hole 368X-U1503A-83R Section 3, Top of Section: 1669.76 m (CSF-A)

Igneous description

Logged by:

Date:

Depth CSF-A (m) | Core length (cm) | Piece number | Shipboard samples | Scanned image | Glass | Alteration intensity | Drilling disturbance | Comments



sparsely 4% pl (1-6cm)
slightly altered
vesicle 1% (1-2mm).
veins. fine to coarse with carbonate & pyrite.
1-10, 10-~~20~~, 21-49. 50-74

Sparsely 3% pl. (1-5mm)
slightly altered
Vesicle 1% (1-2mm)
Veins. fine to coarse. with carbonate
74-84, 84-96, 96-107, 107-112, 113-123,
123-131, 135-142, 142-149.

Hole 368X-U1503A-83R Section 4, Top of Section: 1671.26 m (CSF-A)

Igneous description

Logged by:

Date:

Comments only one unit

Depth CSF-A (m) | Core length (cm) | Piece number | Shipboard samples | Scanned image | Glass | Alteration intensity | Drilling disturbance

1671.30 | 0 | 1
10
1671.40 | 2
20
1671.50 | 3
30
1671.60 | 4
40
1671.70 | 5
50
1671.80 | 6
60
1671.90 | 7
70
1672.00 | 8
80
1672.10 | 9
90
1672.20 | 10
100
1672.30 | 11
110

TS
TSB
TSB
TSB

Sparsely 5% pl. (1-5mm).
slightly altered
Vesicle 2% (1-2mm)
Veins. fine. with carbonate

1-11. 11-21. 21-34. 35-47. 47-57. 57-66.
68-75. 78-88. 103-112.

Hole 368X-U1503A-84R Section 1, Top of Section: 1671.8 m (CSF-A)

Igneous description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Piece number	Shipboard samples	Scanned image	Glass	Alteration intensity	Drilling disturbance	Comments
1671.80	0	1						sparsely 5% pl. (1-5mm). olivine grey slightly altered vesicle 1% (0.5-1mm). no vein.
1671.90	10		V					sparsely 4%-6% pl. (1-5mm) to moderately dark grey slightly altered vesicle 1% (1-2mm). Veins fine with carbonate. 9-38, 57-69, 82-90, 131-150
1672.00	20	2						
1672.10	30							
1672.20	40							
1672.30	50	3						
1672.40	60	4	V					
1672.50	70							
1672.60	80	5						
1672.70	90	6	V					
1672.80	100	7						
1672.90	110	8						
1673.00	120	9						
1673.10	130	10						
1673.20	140	11	V					
1673.30	150							

Hole 368X-U1503A-84R Section 2, Top of Section: 1673.3 m (CSF-A)

Igneous description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Piece number	Shipboard samples	Scanned image	Glass	Alteration intensity	Drilling disturbance
1673.30	0						
1673.40	10	1					
1673.50	20						
1673.60	30	2					
1673.70	40						
		3	PMAG				
1673.80	50						
1673.90	60	4					
1674.00	70						
		5					
1674.10	80						
1674.20	90	6					
1674.30	100						
		7					
1674.40	110						
		8					
1674.50	120						
		9					
1674.60	130						
		10					

Comments

sparsely 4-5% pl. (1-5 mm) fine-grained
slightly altered.
vesicle 1% (1-2mm)
veins. fine, with carbonate
1-19, 19-41, 41-55, 55-73 73-83, 84-100, 101-114.

sparsely 4% pl. (1-3mm) fine-grained
slightly to moderately altered
Vesicle 1% (0.5-1mm)
Veins. coarse. with carbonate & pyrite

Hole 368X-U1503A-84R Section 3, Top of Section: 1674.68 m (CSF-A)

Igneous description

Logged by:

Date:

Depth CSF-A (m) | Core length (cm) | Piece number | Shipboard samples | Scanned image | Glass | Alteration intensity | Drilling disturbance | Comments

1674.70
0
1
10
1674.80
20
1674.90
30
2
1675.00
40
1675.10
50
3
1675.20
60
1675.30
70
4
1675.40
80
5
1675.50
90
6
1675.60
100
7
1675.70
8
110
1675.80
9
120
1675.90
10
130
1676.00
11
140
12
1676.10

moderately 6% pl. (1-5mm). fine-grained groundmass
slightly altered
vesicle 1% (1-2mm)
veins fine with carbonate
16-47. 66-75, 75-91

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sparsely 4% pl. (1-4mm). fine-grained groundmass
slightly altered
vesicle 2% (1-2mm)
veins. fine, with carbonate
121-131. 131-138. 138-145

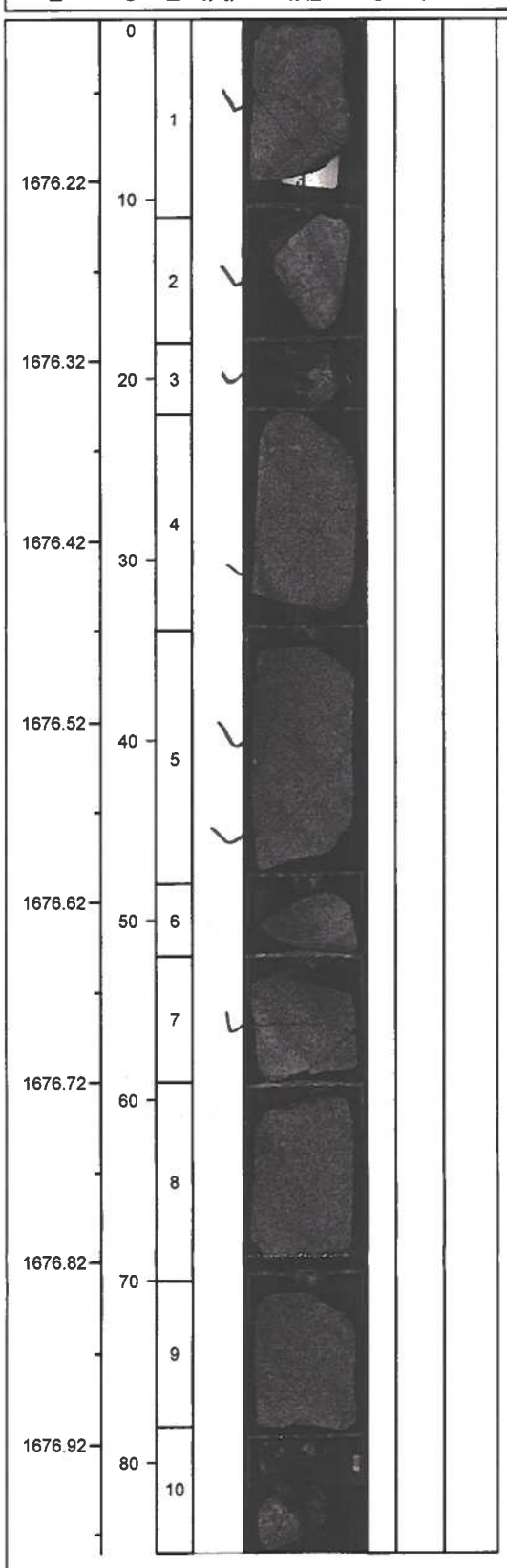
Hole 368X-U1503A-84R Section 4, Top of Section: 1676.13 m (CSF-A)

Igneous description

Logged by:

Date:

Comments only one unit



Sparsely 3% pl. (1-4 mm) fine-grained groundmass

Slightly altered

Vesicle 1% (0.5-1 mm)

Veins fine with carbonate & pyrite

1-10, 10-18, 22-34, 34-47, 52-59, 78-85

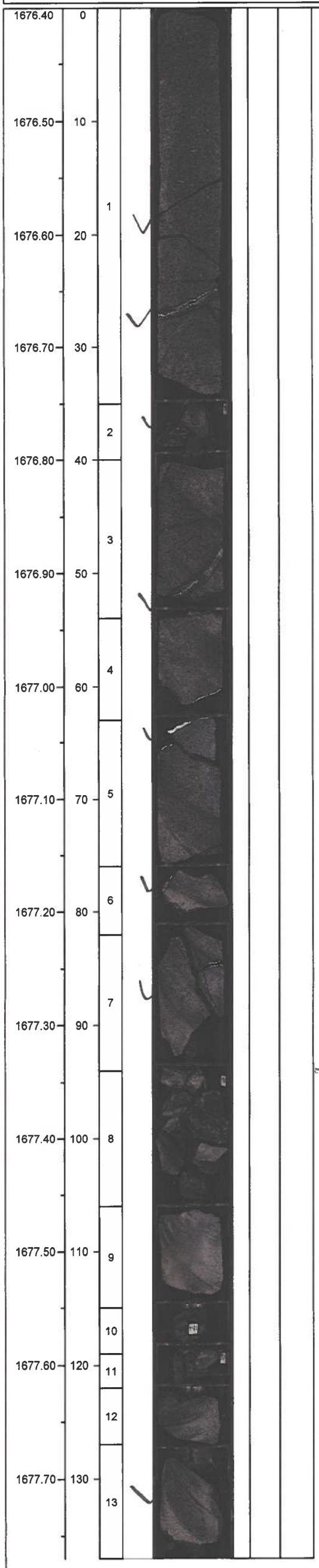
Hole 368X-U1503A-85R Section 1, Top of Section: 1676.4 m (CSF-A)

Igneous description

Logged by:

Date:

Depth CSF-A (m) | Core length (cm) | Piece number | Shipboard samples | Scanned image | Glass | Alteration intensity | Drilling disturbance | Comments



sparsely 1-2% pl. (1-4 mm) fine-grained groundmass slightly altered.

Vesicle. 1% (0.5-1mm).

Veins. fine to coarse. with carbonate & pyrite

0-35. 35-40. 40-53. 53-63. 63-76. 76-81. 81-93.

Sparsely 1% pl (1-3mm).

moderately altered.

Veside 1% (0.5-1mm).

Veins. fine. no carbonate & pyrite

127-137.

Hole 368X-U1503A-85R Section 2, Top of Section: 1677.77 m (CSF-A)

Igneous description

Logged by:

Date:

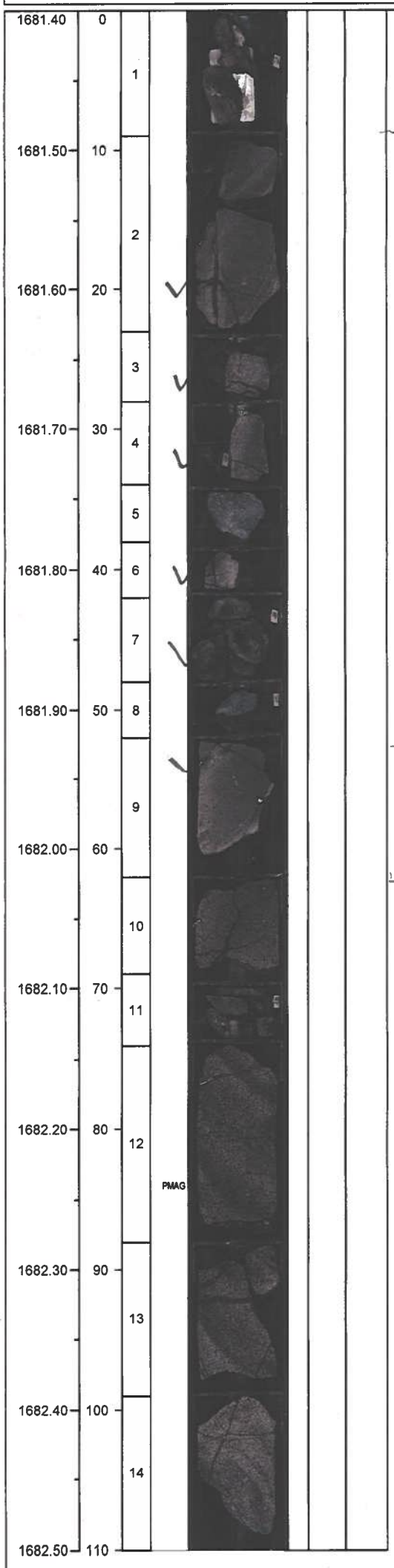
Depth CSF-A (m)	Core length (cm)	Piece number	Shipboard samples	Scanned image	Glass	Alteration intensity	Drilling disturbance	Comments
1677.80	0	1						sparsely 1% pl. (1-3mm). fine-grained groundmass slightly to moderately altered vesicle 1% (0.5-1mm) veins. fine to coarse, with carbonate 7-24. 32-43. 43-53.
1677.90	10	2						
1678.00	20							
1678.10	30	3						
1678.20	40	4						
1678.30	50	5						
1678.40	60	6	PMAG					sparsely 1% pl. (1-2mm). fine-grained groundmass slightly altered vesicle. 1% (~1mm) veins fine to coarse, with carbonate 53-68. 94-105
1678.50	70	7						
1678.60	80	8						
1678.70	90	9						
1678.80	100	10						
	110	11						
		12						
		13						

Hole 368X-U1503A-86R Section 1, Top of Section: 1681.4 m (CSF-A)

Igneous description

Logged by:

Date:



clay

aphyric. fine-grained groundmass.
vesicle. 1% (0.5-1mm)
veins. fine to coarse. with pyrite
9-23. 23-28. 28-34.

aphyric. fine-grained. vesicle >1% (1mm)
vein. fine.

sparsely 0.5-1% pl (~1mm) fine-grained groundmass
slightly to moderately altered
Vesicle. 15% (1-3mm)
Veins. fine. with carbonate
63-70. 74-87. 88-98. 99-109

Hole 368X-U1503A-86R Section 2, Top of Section: 1682.5 m (CSF-A)

Igneous description

Logged by:

Date:

Comments only one unit

Depth CSF-A (m)	Core length (cm)	Piece number	Shipboard samples	Scanned image	Glass	Alteration intensity	Drilling disturbance
1682.58	0	1				✓	
1682.68	10	2					
1682.78	20	3					
1682.88	30	4					
1682.98	40	5					
	50	6					

sparsely 3% pl. (1-4 mm). fine-grained groundmass
slightly altered
vesicle. 1% (0.5-1 mm).
vein. fine with carbonate
4-25

Hole 368X-U1503A-87R Section 1, Top of Section: 1691.0 m (CSF-A)

Igneous description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Piece number	Shipboard samples	Scanned image	Glass	Alteration intensity	Drilling disturbance	Comments
1691.00	0	1						aphyric to sparsely phyric 0-1% pl. (3mm) fine-grained groundmass slightly to moderately altered.
1691.10	10	2		✓				Vesicle. 2% (1-2mm).
1691.20	20			✓				Veins. fine to coarse.
		3						
1691.30	30				✓			
1691.40	40	4		✓				sparsely 3% (1-5mm). fine-grained. groundmass.
1691.50	50	5			✓			slightly altered.
		6		✓				Vesicle. 1% (0.5-1mm).
1691.60	60	7		✓				Veins. fine to coarse.
1691.70	70	8						36-45. 45-51. 51-59. 59-67 71-81. 81-100. 100-110,
		9		✓				111-123. 123-142
1691.80	80							
		10		✓				
1691.90	90			✓				
1692.00	100	11		✓				
1692.10	110							
		12		✓				
1692.20	120							
		13	PMAG	✓				
1692.30	130							
1692.40	140	14						chilled margin glass. aphyric

Hole 368X-U1503A-87R Section 2, Top of Section: 1692.45 m (CSF-A)

Igneous description

Logged by: Tobias + Fouly

Date: 17/4/2019

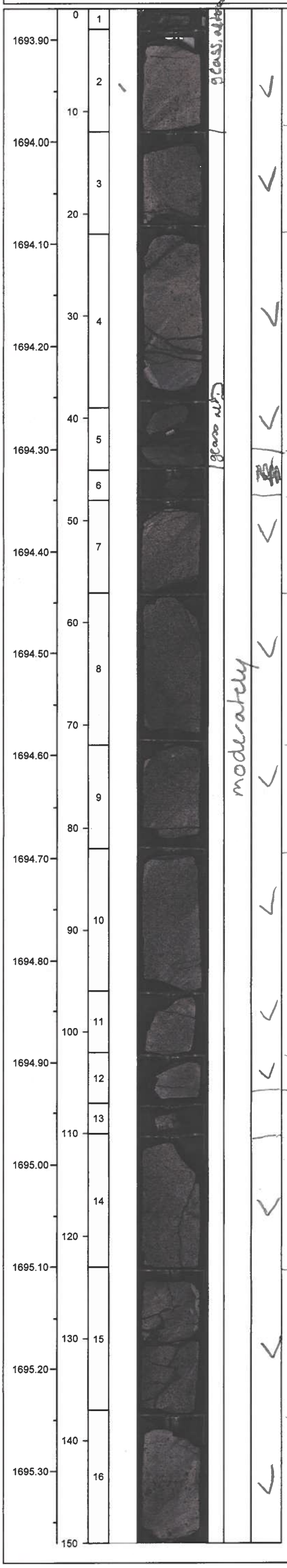
Depth CSF-A (m)	Core length (cm)	Piece number	Shipboard samples	Alteration intensity	Drilling disturbance	Phyric	Pl	Ol	Comments	GM	Vesicles
1692.50	0	1			✓	sparsely	3% 3-1mm partially-completely altered	—		microxlline	—
1692.60	10	2			✓	sparsely	3% 5-2mm partially-completely altered	—		microxlline	—
1692.70	20	3			✓	glassy margin, highly altered. → Feoxide, clay			microxlline texture preserved in aphyric core		
		4			✓	sparsely-aphyric glassy margin	1% slightly-completely altered + rock + margin		microxlline		—
1692.80	30	5			✓	sparsely glassy margin	3% 3-1mm moderate-completely altered	—		microxlline	—
1692.90	40	6			✓	sparsely potentially edge of chilled margin	5% 4-1mm moderately-completely altered	—		microxll	—
1693.00	50	7			✓	as (4)					
1693.10	60	8			✓	as (6)					
1693.20	70	9				sparsely glassy margin.	5% 3-1mm moderately-completely altered	—	microxll glomeroxsts	microxll	—
1693.30	80	10			✓	Sparsely	5% 3-1mm moderate-completely altered	—			
1693.40	90	11			✓	sparsely	5% 5-1mm moderately-compl. altered	—		microxlline	—
1693.50	100	12			✓	sparsely altered glassy margin	5% 3-2mm moderate-completely altered	—		microxll	—
1693.60	110	13			✓	sparsely	1% 2-1mm highly-completely altered	—	glomeroxst	microxll	—
1693.70	120	14			✓	sparsely	5% 7-2mm moderate-completely altered	—		microxll	—
1693.80	130	15			✓	sparsely	3% 5-1mm moderate-completely altered			microxll	
	140					glass margin highly altered					

Hole 368X-U1503A-87R Section 3, Top of Section: 1693.87 m (CSF-A)

Igneous description

Logged by:

Date:



Phyric	Pl	Ol	Comments: GM	Vesicles
sparsely + sediment: clay	1% 2-2 mm altered	–	microxll	–
sparsely + chilled margin	5% 4–2 mm moderately–completely altd		microxll	–
= (2)	3–2 mm			
= (2)	6–2 mm			
sparsely + glassy margin	1% 2–0,5 mm moderately–completely	–	microxll	–
empty				
sparsely	1% 2–0,5 mm moderately–completely	–	finegrained	sparsely – dark
sparsely	5% 4–2 mm slightly – ~~moderately~~ ~~completely~~ highly altered	–	fine grained	sparsely – dark brown – black earlier dark green named)
sparsely	5% 4–2 mm slightly – highly altered	–	fine grained	–
sparsely	2% 4–1 mm moderately – completely altered	–	finegrained	–
~~sparsely~~ sparsely	1% 2–1 mm moderately–completely altered	–	finegrained microxlline	–
sparsely	1% 6–1/2 mm moderately–completely altered	–	microxlline	sparsely – beach/dark brown
aphyric inequigranular sparsely	5% 5–2 mm moderately–completely altered	–	finegrained	–
Sparsely	3 % 4–2 mm moderate–completely altered	–	microxlline	–
Sparsely	5% 3–2 mm moderately–completely altered	–	microxlline	–

Hole 368X-U1503A-87R Section 4, Top of Section: 1695.37 m (CSF-A)

Igneous description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Piece number	Shipboard samples	Scanned image	Glass	Alteration intensity	Brilling/disturbance	Phyric	Pl	Ol	Comments	GM	Vesicles
	0	1					✓	sparsely	1% 3-1 mm moderately - completely altered	—		microxll	—
1695.45	10	2					✓	= (1)					
		3					✓	sparsely	3% 2-1 mm moderately - completely altered	—		fine grained	—
1695.55	20	4					✓	sparsely	3% 2-0.5 mm moderately - completely altered glomeroxsts			fine grained microxlline	—
1695.65	30	5					✓	= (4)					
		6						Sparsely	5% 5-2 mm moderately - completely altered	—		fine grained	—
1695.75	40	7						= (6)	2-1 mm				
1695.85	50	8			(glassy margin)	moderately		Sparsely	5% 3-1 mm completely altered glomeroxsts	—		fine grained	—
1695.95	60	9						sparsely	5% 3-1 mm completely altred - moderately			fine grained	—
1696.05	70	10			altered glass		✓	sparsely	1% 2-1 mm completely altered			microxlline	—
1696.15	80	11					✓	Sparsely	1% 2-1/2 mm altered completely			micoxlline	—
1696.25	90	12						Sparsely	20% 4-2 mm moderately-completely altered			fine grained	—
1696.35	100	13						sparsely	1% 5-1 mm fresh - completely altered			fine grained	—

Hole 368X-U1503A-88R Section 1, Top of Section: 1700.5 m (CSF-A)

Igneous description

Logged by:

Date: 4/17/2019

Depth CSF-A (m)	Core length (cm)	Piece number	Shipboard samples	Scanned image	Glass	Alteration intensity	Drilling disturbance	Veins	Phyric	Pl	Ol	Comments	GM	Vesicles
1700.50	0	1				moderate			aphyric	—	—		fine-grained	sparsely ves. (blade)
		2						√	sparsely phyric (1%)	highly to compl. alt. 3mm / 1mm	—		—11—	—11—
1700.60	10													
1700.70	20					moderate								
1700.80	30	3						√	sparsely (5%)	highly to compl. altered 5mm / 1mm	—		—11—	—11—
1700.90	40													
1701.00	50					moderate								
		4						√	sparsely (1%)	slightly altered 4mm / 2mm	—		—11—	—11—
1701.10	60													
		5						√	aphyric	—	—		—11—	—11—
1701.20	70													
		6				moderate		√	aphyric	—	—		—11—	—11—
1701.30	80													
		7						√	sparsely (1%)	slightly to mod. altered 3mm / 2mm	—		—11—	nonvesicular
1701.40	90													
1701.50	100	8			X	(altered, hyaloclastite) moderate		√	sparsely (1%)	mod. to completely altered 5mm / 2mm	—		—11—	nonvesicular
1701.60	110													

Hole 368X-U1503A-88R Section 2, Top of Section: 1701.68 m (CSF-A)

Igneous description

Logged by:

Date:

Depth CSF-A (m)	Core length (cm)	Piece number	Shipboard samples	Scanned image	Glass	Alteration intensity	Drilling disturbance	Comments
1701.70	0							sparsely 2% pl. (1-3 mm) fine-grained groundmass. slightly altered vesicle. 1% (0.5-1 mm). veins. fine with carbonate 1-43. 43-79. 80-122
	10							
1701.80								
	20	1						
1701.90								
	30							
1702.00								
	40							
1702.10								
	50		PMAG					
1702.20								
	60	2						
1702.30								
	70							
1702.40								
	80							
1702.50								
	90							
1702.60								
	100	3						
1702.70								
	110							
1702.80								
	120							
1702.90		4						aphyric. fine-grained slightly altered. vesicle. 1% (0.5-1 mm) veins. fine. with carbonate. 123-127. 127-134
	130	5						
1703.00								
	140	6						sparsely 1% pl. (1-3 mm) fine-grained groundmass slightly altered. vesicle. 1% (0.5-1 mm). vein. fine.

Hole 368X-U1503A-88R Section 3, Top of Section: 1703.09 m (CSF-A)

Igneous description

Logged by:

Date:

Depth CSF-A (m) | Core length (cm) | Piece number | Shipboard samples | Scanned image | Glass | Alteration intensity | Drilling disturbance | Comments

1703.10
0
1703.20
10
1
20
1703.30
2
3
30
1703.40
4
40
1703.50
5
50
1703.60
60
1703.70
6
70
1703.80
7
80
1703.90
8
90
1704.00
100
1704.10
9
110
1704.20
10
11
120
1704.30
12
13
130
1704.40
14
140
1704.50
15

sparsely 1% pl. (1-3mm) fine-grained groundmass
slightly altered.
vesicle. 3% (1-3mm).
veins: halo, fine.
1-19. 40-58, 58-69.

sparsely. 1-3% pl. (1-3mm) fine-grained groundmass
slightly altered.
vesicle. 3-5% (1-2mm).
veins. halo & fine.

Sparsely. 5% (1-4mm). fine-grained groundmass
slightly altered
vesicle 1% (0.5-1mm)
no vein;

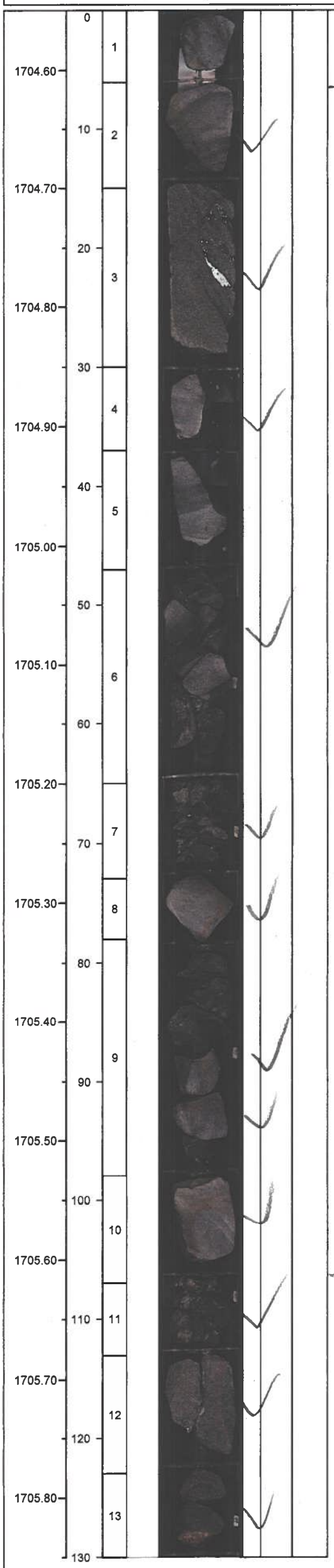
moderately. 9% pl. (1-9mm). fine-grained groundmass.
slightly altered
vesicle. 2% (0.5-1mm).
Vein. fine. with carbonate
119-124.

Hole 368X-U1503A-88R Section 4, Top of Section: 1704.55 m (CSF-A)

Igneous description

Logged by:

Date:



moderately. 9% pl. (1-3mm) fine-grained groundmass, slightly altered
vesicle. 2%(0.5-1mm) no vein

aphyric. fine-grained.
slightly altered.
vesicle. 0.5%(~1mm)
veins. halo. with carbonate
6-14. 14-30. 30-37. 65-73. 73-78. 78-98. 98-106.

sparsely. 1% pl (1-2mm). fine-grained groundmass
slightly altered
no vesicle
veins. halo. with carbonate
106-113. 113-122. 122-130.