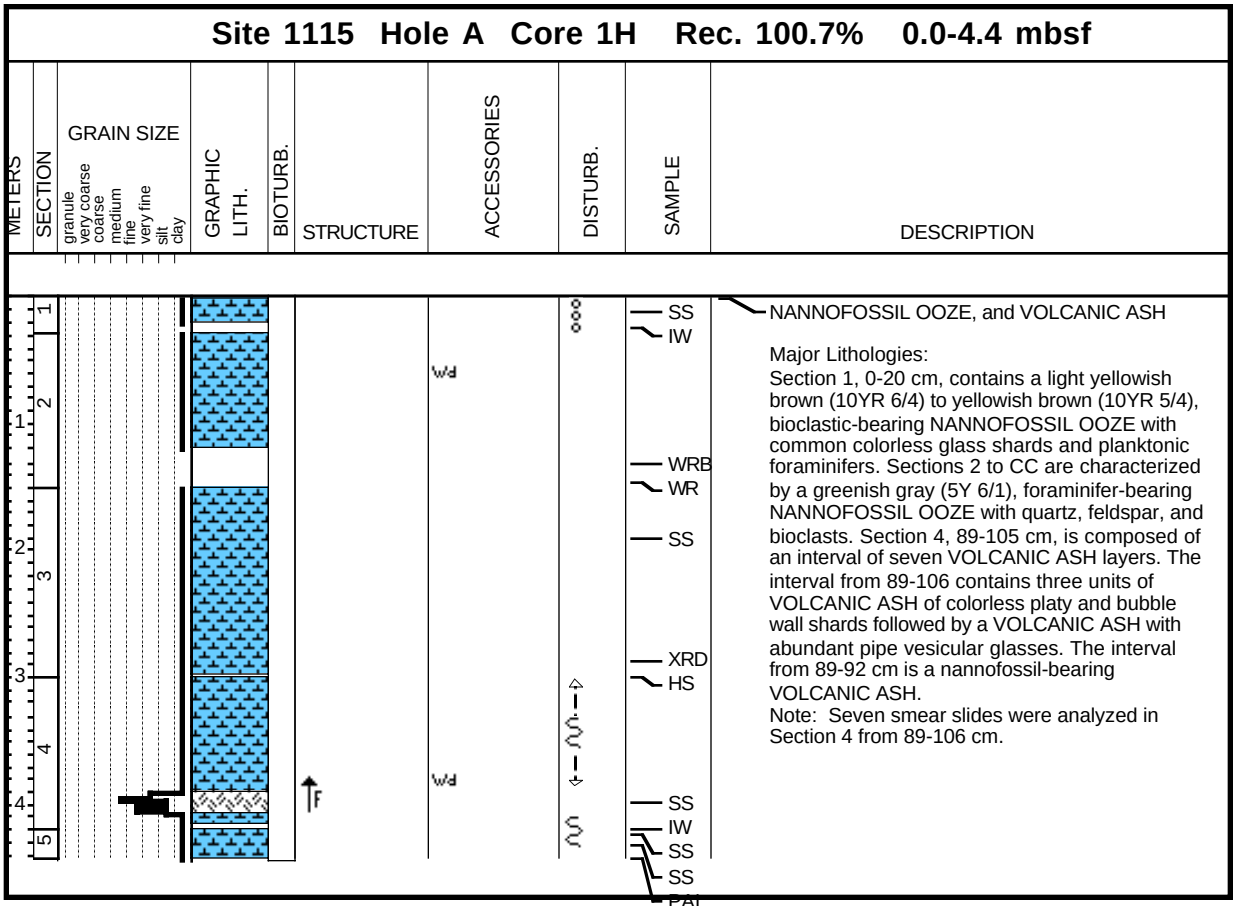
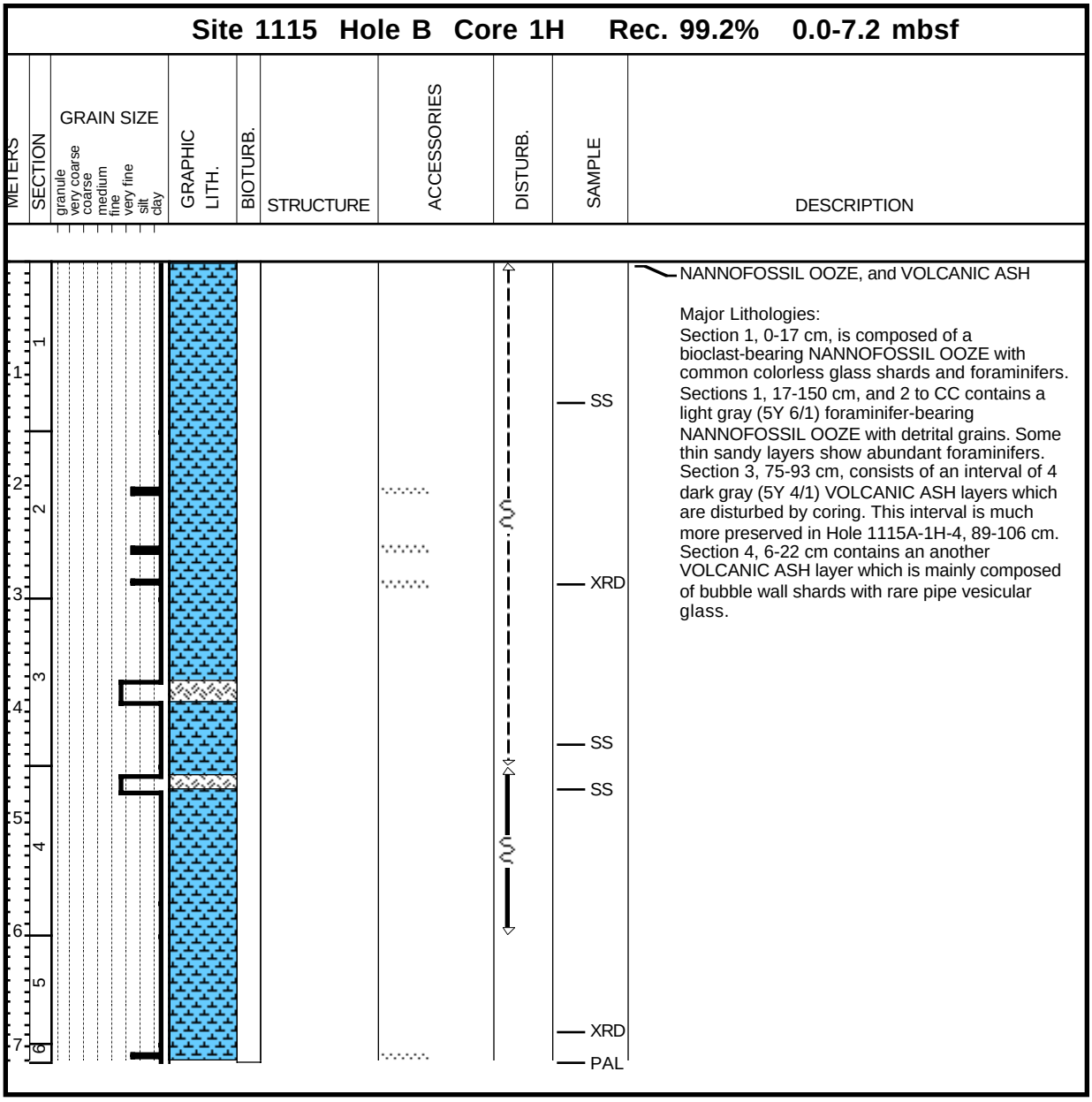
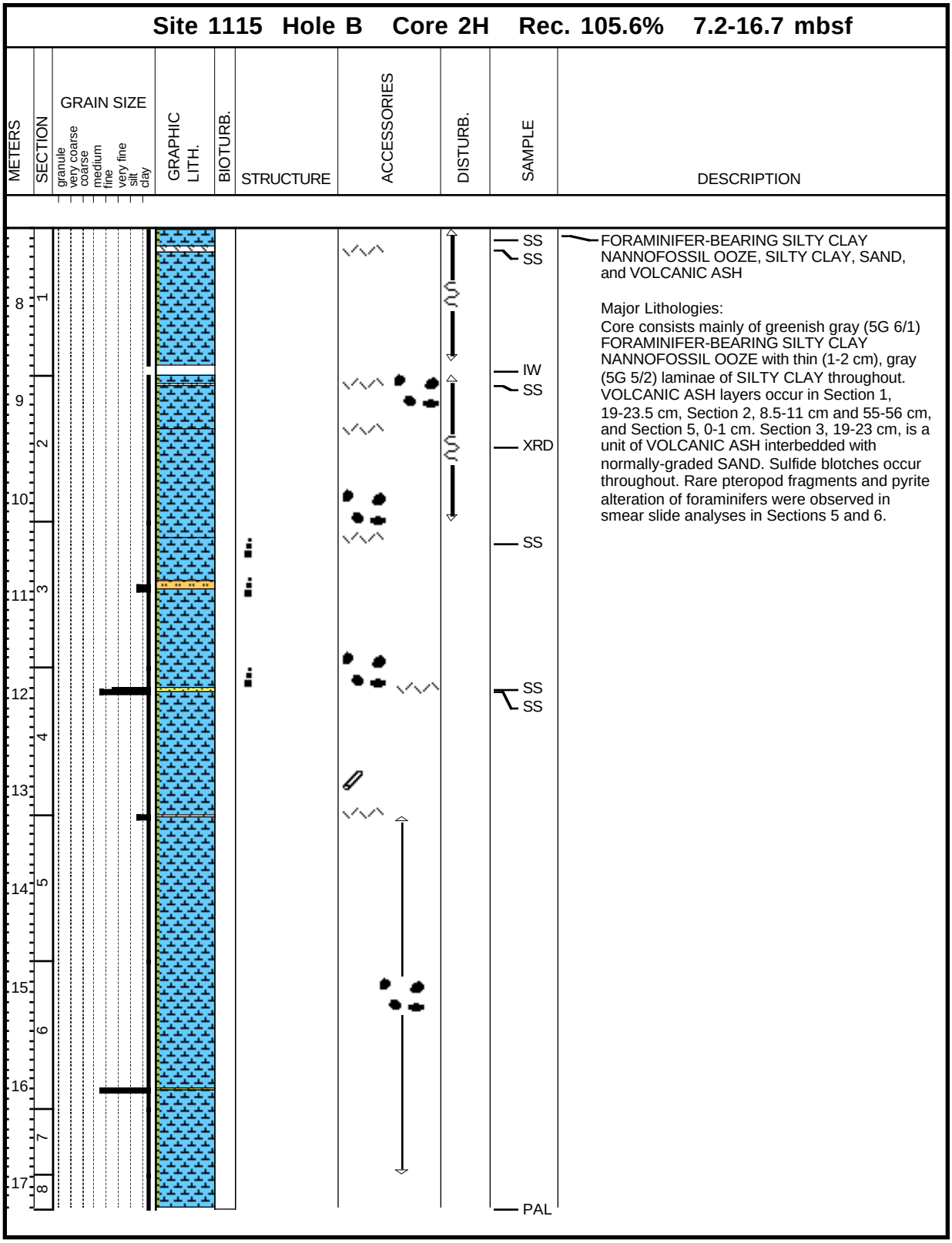
Core Photo


Site 1115 Hole A Core 1H Rec. 100.7% 0.0-4.4 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
SS
IW
WRB
WR
SS
XRD
HS
SS
IW
SS
SS
NANNOFOSSIL OOZE, and VOLCANIC ASH
Major Lithologies:
Section 1, 0-20 cm, contains a light yellowish brown (10YR 6/4) to yellowish brown (10YR 5/4), bioclastic-bearing NANNOFOSSIL OOZE with common colorless glass shards and planktonic foraminifers. Sections 2 to CC are characterized by a greenish gray (5Y 6/1), foraminifer-bearing NANNOFOSSIL OOZE with quartz, feldspar, and bioclasts. Section 4, 89-105 cm, is composed of an interval of seven VOLCANIC ASH layers. The interval from 89-106 contains three units of VOLCANIC ASH of colorless platy and bubble wall shards followed by a VOLCANIC ASH with abundant pipe vesicular glasses. The interval from 89-92 cm is a nannofossil-bearing VOLCANIC ASH.
Note: Seven smear slides were analyzed in Section 4 from 89-106 cm.

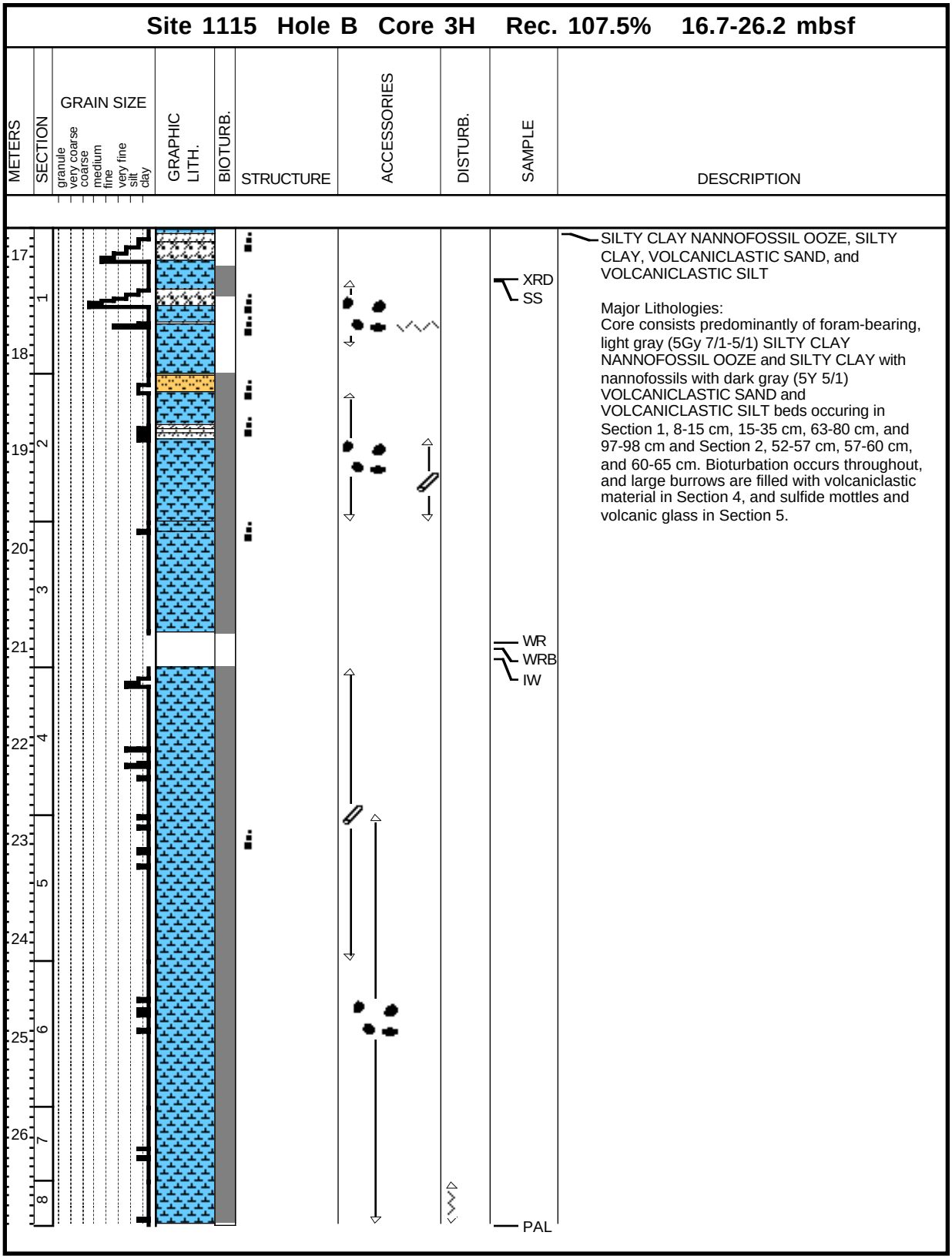
Core Photo


Site 1115 Hole B Core 1H Rec. 99.2% 0.0-7.2 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
NANNOFOSSIL OOZE, and VOLCANIC ASH
Major Lithologies:
Section 1, 0-17 cm, is composed of a bioclast-bearing NANNOFOSSIL OOZE with common colorless glass shards and foraminifers. Sections 1, 17-150 cm, and 2 to CC contains a light gray (5Y 6/1) foraminifer-bearing NANNOFOSSIL OOZE with detrital grains. Some thin sandy layers show abundant foraminifers. Section 3, 75-93 cm, consists of an interval of 4 dark gray (5Y 4/1) VOLCANIC ASH layers which are disturbed by coring. This interval is much more preserved in Hole 1115A-1H-4, 89-106 cm. Section 4, 6-22 cm contains an another VOLCANIC ASH layer which is mainly composed of bubble wall shards with rare pipe vesicular glass.
SS
XRD
SS
SS
XRD
PAL

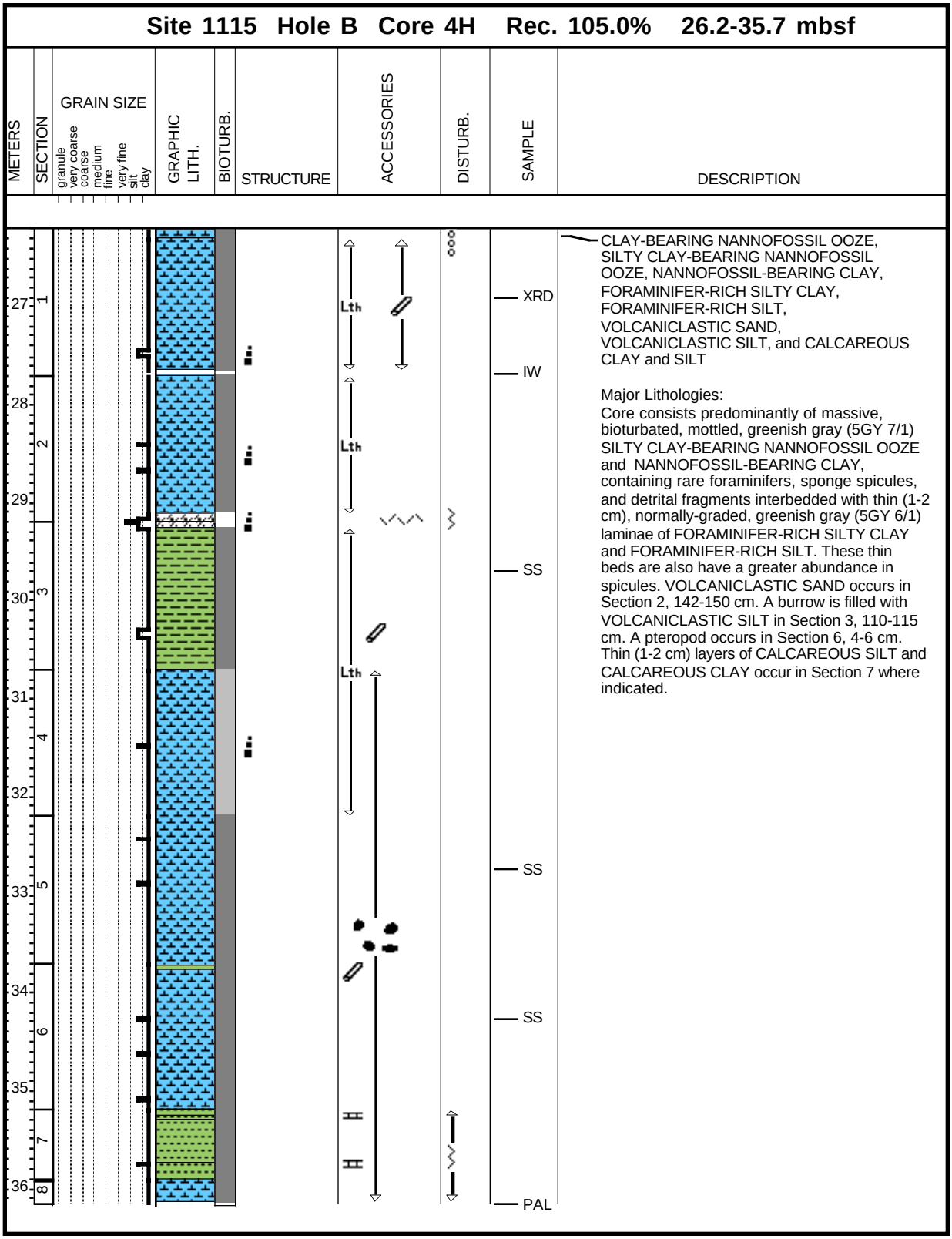
Core Photo


Site 1115 Hole B Core 2H Rec. 105.6% 7.2-16.7 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
SS
SS
IW
SS
XRD
SS
SS
SS
PAL
FORAMINIFER-BEARING SILTY CLAY NANNOFOSSIL OOZE, SILTY CLAY, SAND, and VOLCANIC ASH
Major Lithologies:
Core consists mainly of greenish gray (5G 6/1) FORAMINIFER-BEARING SILTY CLAY NANNOFOSSIL OOZE with thin (1-2 cm), gray (5G 5/2) laminae of SILTY CLAY throughout. VOLCANIC ASH layers occur in Section 1, 19-23.5 cm, Section 2, 8.5-11 cm and 55-56 cm, and Section 5, 0-1 cm. Section 3, 19-23 cm, is a unit of VOLCANIC ASH interbedded with normally-graded SAND. Sulfide blotches occur throughout. Rare pteropod fragments and pyrite alteration of foraminifers were observed in smear slide analyses in Sections 5 and 6.

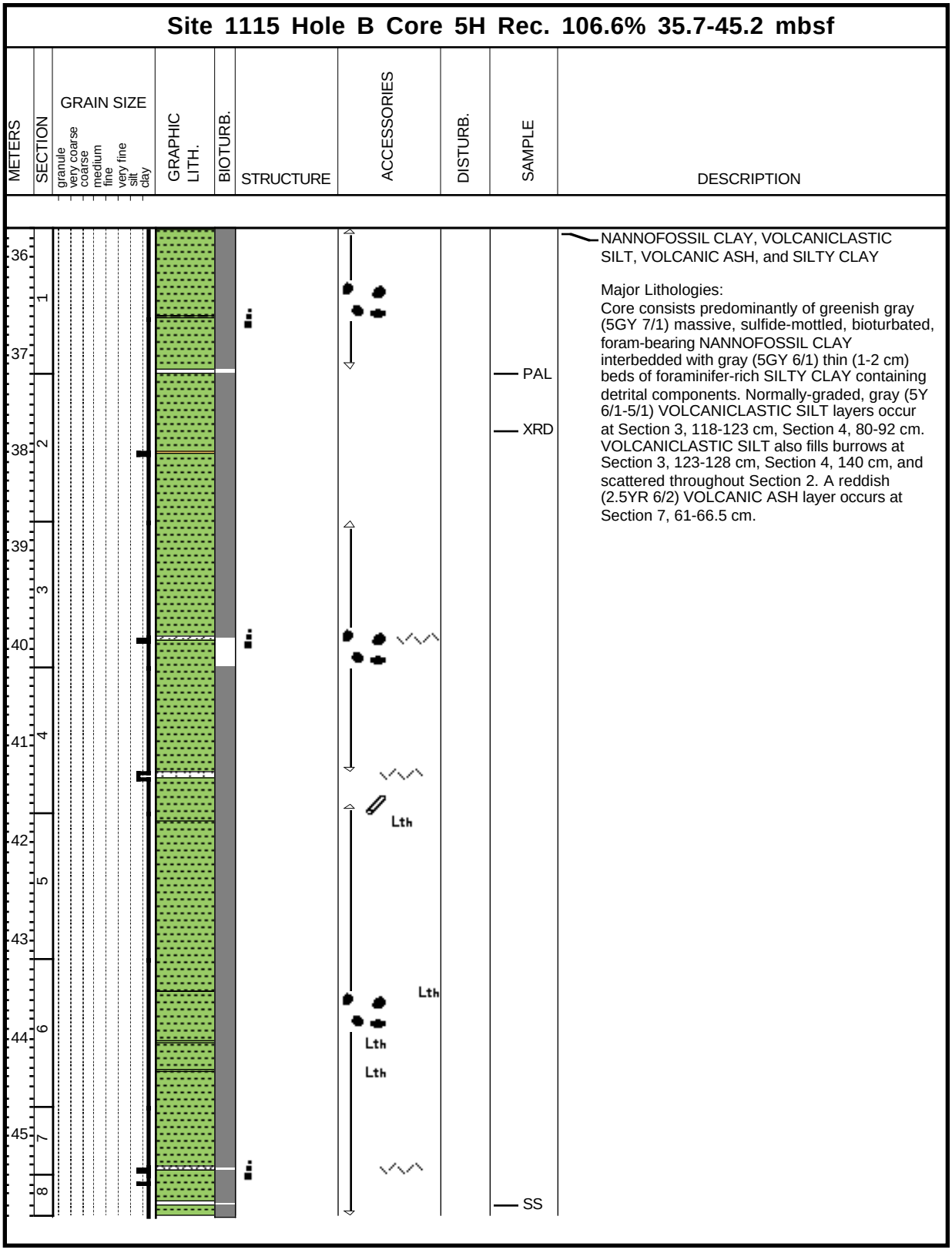
Core Photo


Site 1115 Hole B Core 3H Rec. 107.5% 16.7-26.2 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
17
18
19
20
21
22
23
24
25
26
1
2
3
4
5
6
7
8
XRD
SS
WR
WRB
IW
PAL
SILTY CLAY NANNOFOSSIL OOZE, SILTY CLAY, VOLCANICLASTIC SAND, and VOLCANICLASTIC SILT
Major Lithologies:
Core consists predominantly of foram-bearing, light gray (5Gy 7/1-5/1) SILTY CLAY NANNOFOSSIL OOZE and SILTY CLAY with nannofossils with dark gray (5Y 5/1) VOLCANICLASTIC SAND and VOLCANICLASTIC SILT beds occuring in Section 1, 8-15 cm, 15-35 cm, 63-80 cm, and 97-98 cm and Section 2, 52-57 cm, 57-60 cm, and 60-65 cm. Bioturbation occurs throughout, and large burrows are filled with volcaniclastic material in Section 4, and sulfide mottles and volcanic glass in Section 5.

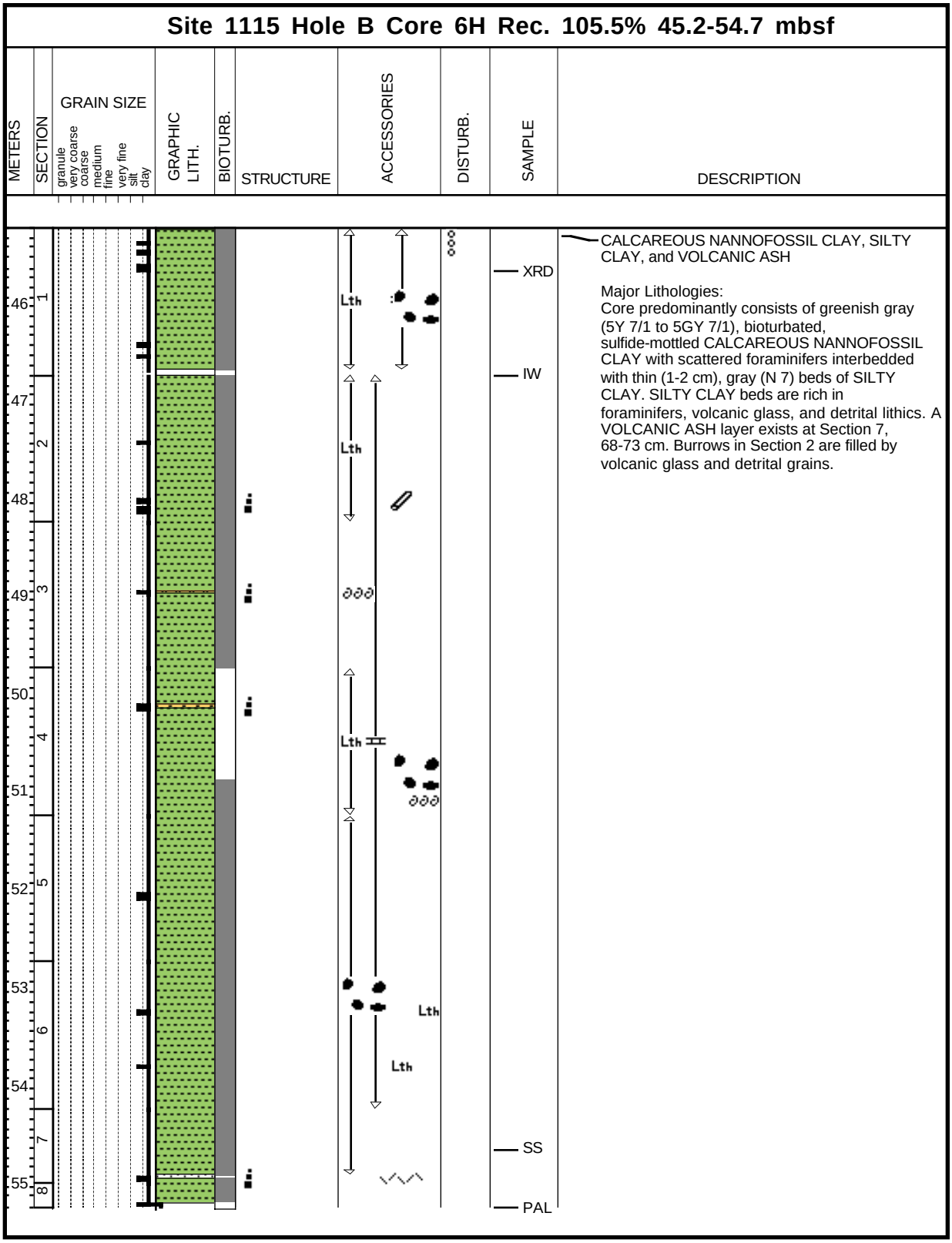
Core Photo


Site 1115 Hole B Core 4H Rec. 105.0% 26.2-35.7 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
27
28
29
30
31
32
33
34
35
36
1
2
3
4
5
6
7
8
Lth
Lth
Lth
H
H
XRD
IW
SS
SS
SS
PAL
CLAY-BEARING NANNOFOSSIL OOZE, SILTY CLAY-BEARING NANNOFOSSIL OOZE, NANNOFOSSIL-BEARING CLAY, FORAMINIFER-RICH SILTY CLAY, FORAMINIFER-RICH SILT, VOLCANICLASTIC SAND, VOLCANICLASTIC SILT, and CALCAREOUS CLAY and SILT
Major Lithologies:
Core consists predominantly of massive, bioturbated, mottled, greenish gray (5GY 7/1) SILTY CLAY-BEARING NANNOFOSSIL OOZE and NANNOFOSSIL-BEARING CLAY, containing rare foraminifers, sponge spicules, and detrital fragments interbedded with thin (1-2 cm), normally-graded, greenish gray (5GY 6/1) laminae of FORAMINIFER-RICH SILTY CLAY and FORAMINIFER-RICH SILT. These thin beds are also have a greater abundance in spicules. VOLCANICLASTIC SAND occurs in Section 2, 142-150 cm. A burrow is filled with VOLCANICLASTIC SILT in Section 3, 110-115 cm. A pteropod occurs in Section 6, 4-6 cm. Thin (1-2 cm) layers of CALCAREOUS SILT and CALCAREOUS CLAY occur in Section 7 where indicated.

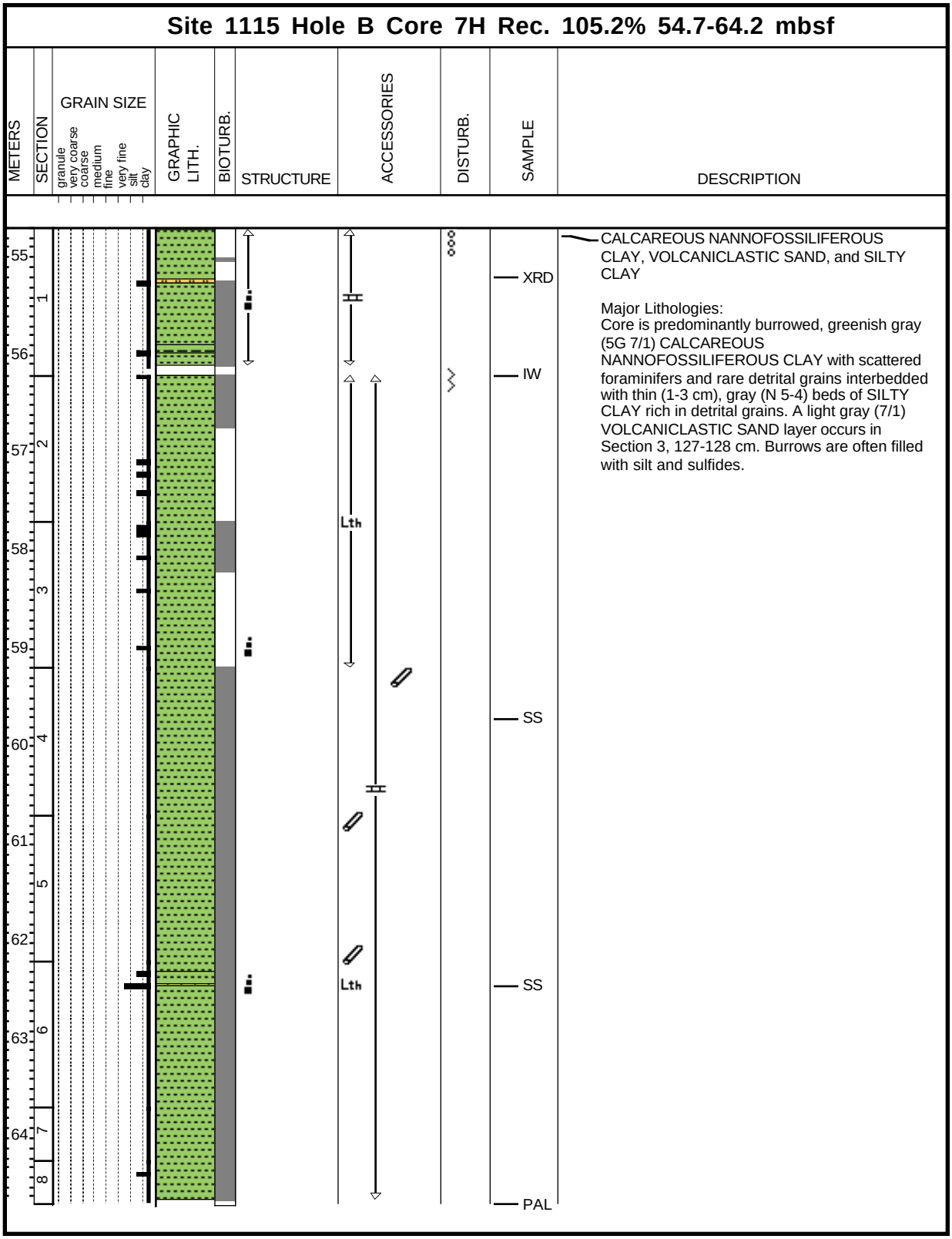
Core Photo


Site 1115 Hole B Core 5H Rec. 106.6% 35.7-45.2 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
36
37
38
39
40
41
42
43
44
45
1
2
3
4
5
6
7
8
PAL
XRD
SS
Lth
Lth
Lth
Lth
NANNOFOSSIL CLAY, VOLCANICLASTIC SILT, VOLCANIC ASH, and SILTY CLAY
Major Lithologies:
Core consists predominantly of greenish gray (5GY 7/1) massive, sulfide-mottled, bioturbated, foram-bearing NANNOFOSSIL CLAY interbedded with gray (5GY 6/1) thin (1-2 cm) beds of foraminifer-rich SILTY CLAY containing detrital components. Normally-graded, gray (5Y 6/1-5/1) VOLCANICLASTIC SILT layers occur at Section 3, 118-123 cm, Section 4, 80-92 cm. VOLCANICLASTIC SILT also fills burrows at Section 3, 123-128 cm, Section 4, 140 cm, and scattered throughout Section 2. A reddish (2.5YR 6/2) VOLCANIC ASH layer occurs at Section 7, 61-66.5 cm.

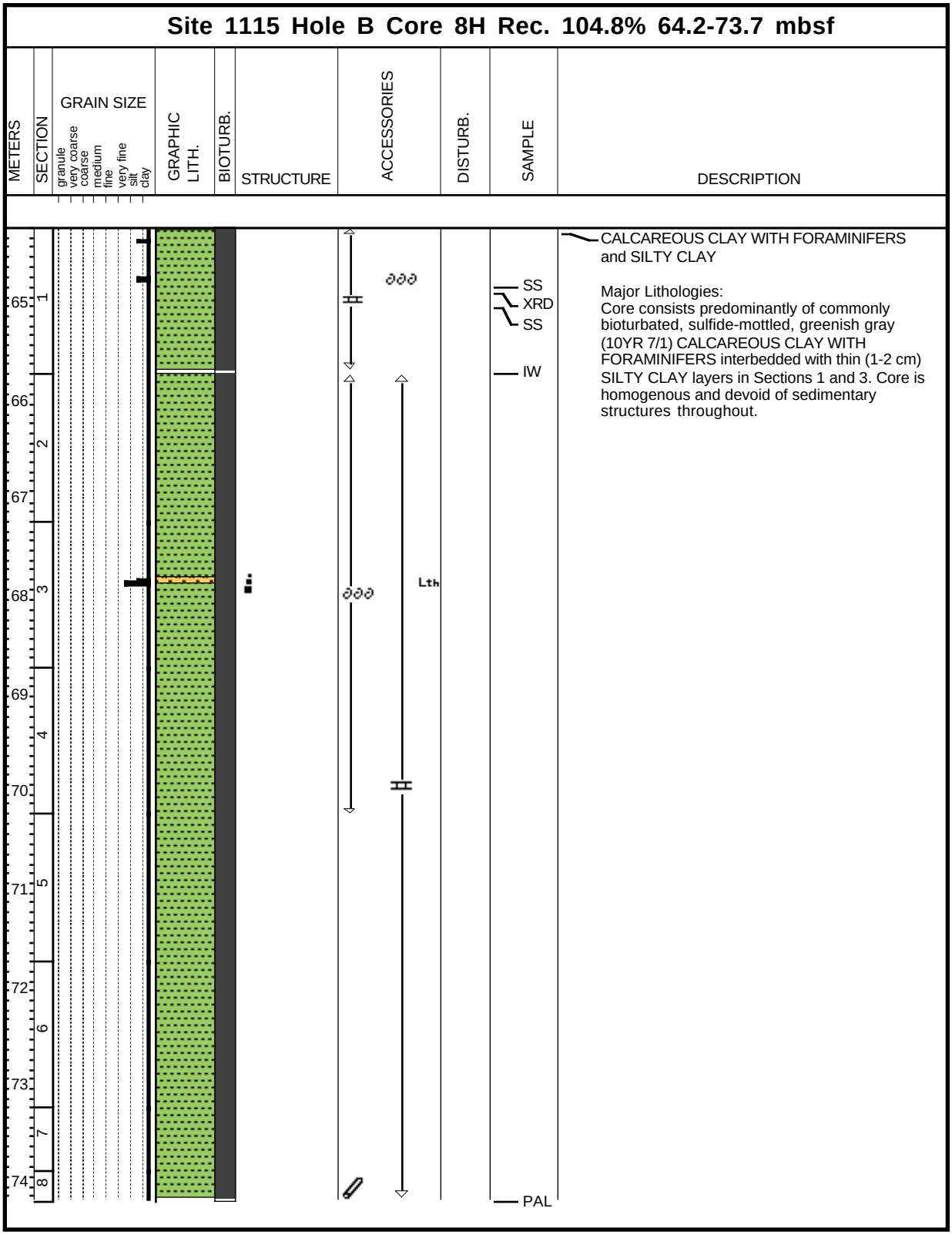
Core Photo


Site 1115 Hole B Core 6H Rec. 105.5% 45.2-54.7 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
46
47
48
49
50
51
52
53
54
55
1
2
3
4
5
6
7
8
Lth
XRD
IW
SS
PAL
CALCAREOUS NANNOFOSSIL CLAY, SILTY CLAY, and VOLCANIC ASH
Major Lithologies:
Core predominantly consists of greenish gray (5Y 7/1 to 5GY 7/1), bioturbated, sulfide-mottled CALCAREOUS NANNOFOSSIL CLAY with scattered foraminifers interbedded with thin (1-2 cm), gray (N 7) beds of SILTY CLAY. SILTY CLAY beds are rich in foraminifers, volcanic glass, and detrital lithics. A VOLCANIC ASH layer exists at Section 7, 68-73 cm. Burrows in Section 2 are filled by volcanic glass and detrital grains.

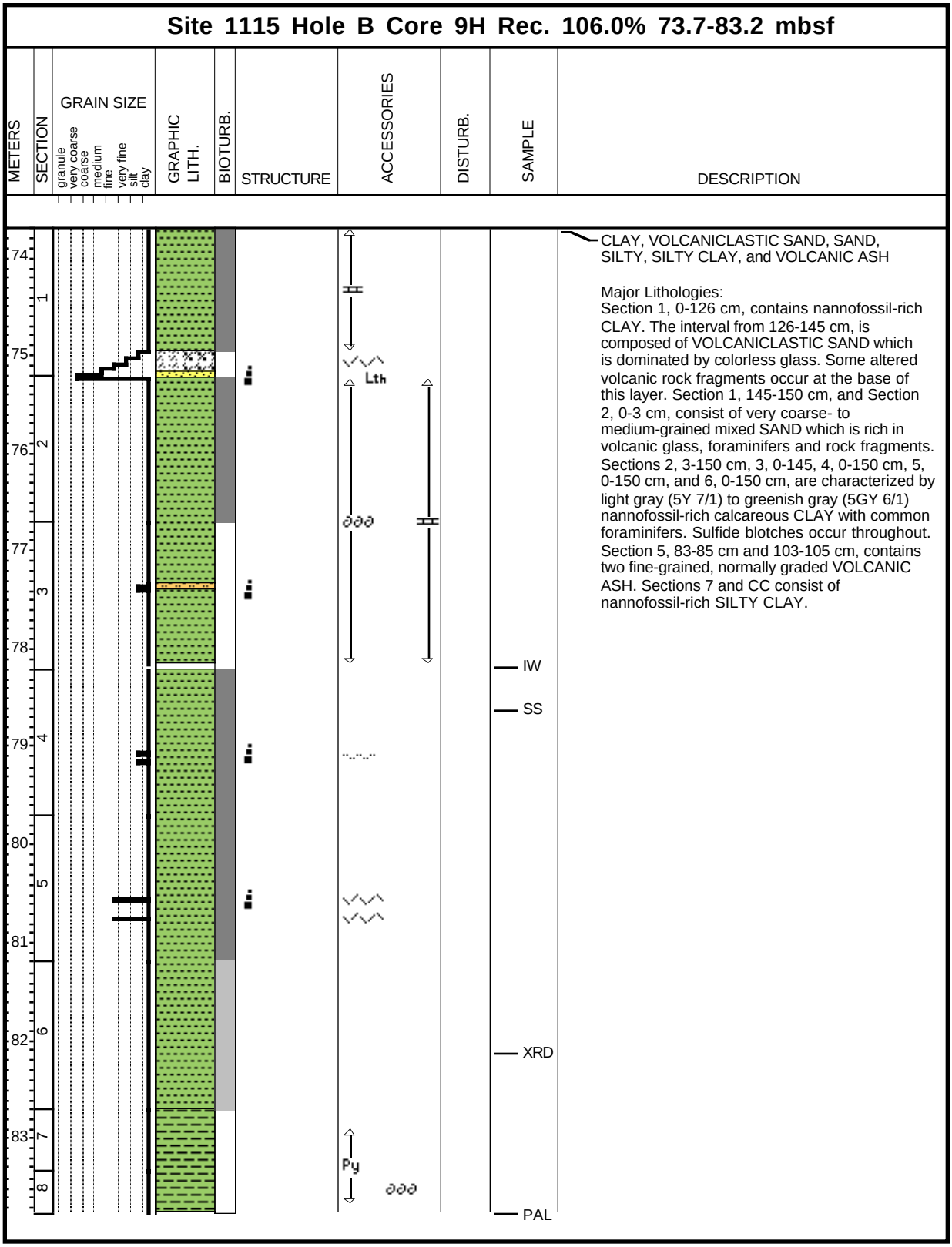
Core Photo


Site 1115 Hole B Core 7H Rec. 105.2% 54.7-64.2 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
55
56
57
58
59
60
61
62
63
64
1
2
3
4
5
6
7
8
H
Lth
H
Lth
XRD
IW
SS
SS
PAL
CALCAREOUS NANNOFOSSILIFEROUS CLAY, VOLCANICLASTIC SAND, and SILTY CLAY
Major Lithologies:
Core is predominantly burrowed, greenish gray (5G 7/1) CALCAREOUS NANNOFOSSILIFEROUS CLAY with scattered foraminifers and rare detrital grains interbedded with thin (1-3 cm), gray (N 5-4) beds of SILTY CLAY rich in detrital grains. A light gray (7/1) VOLCANICLASTIC SAND layer occurs in Section 3, 127-128 cm. Burrows are often filled with silt and sulfides.

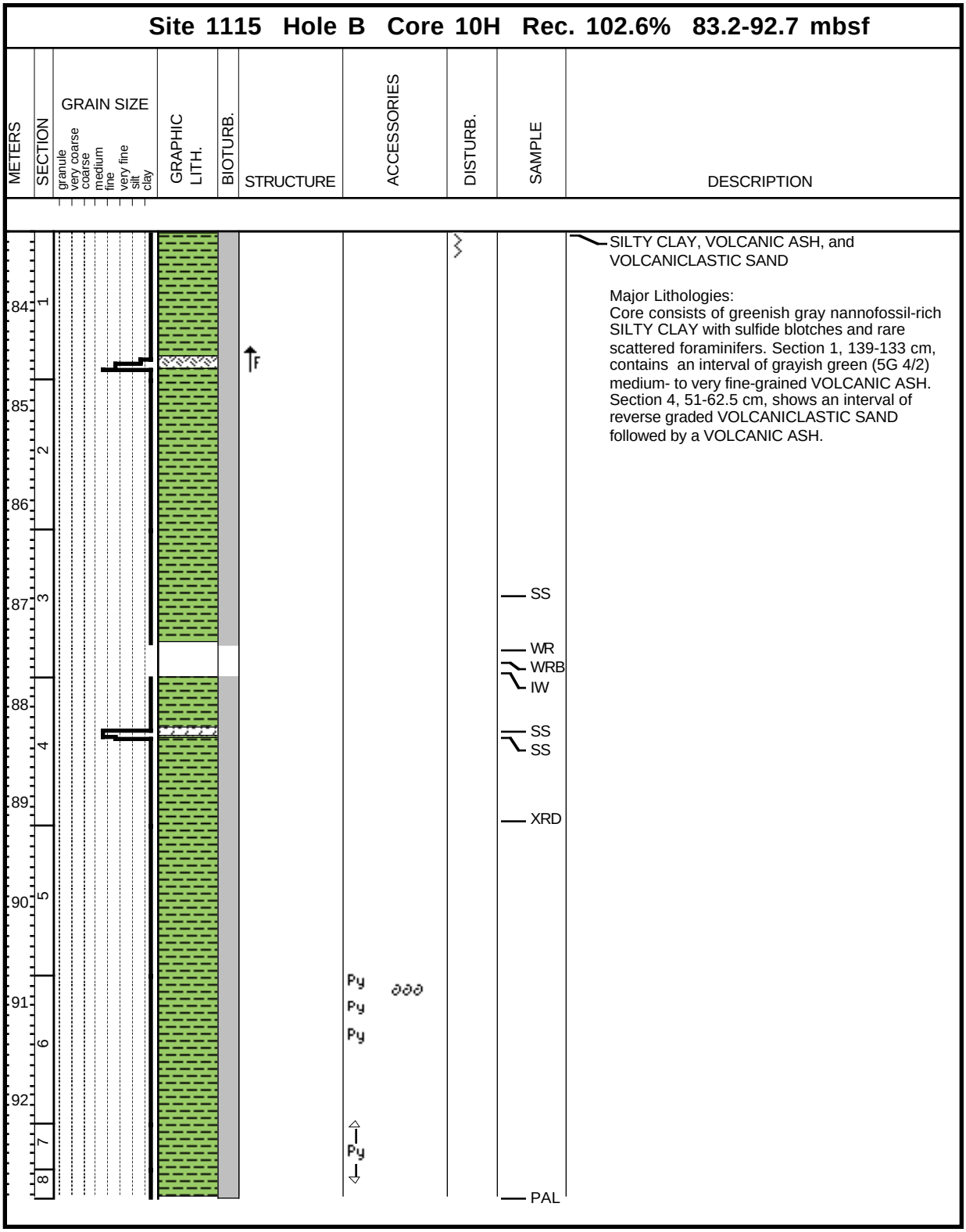
Core Photo


Site 1115 Hole B Core 8H Rec. 104.8% 64.2-73.7 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
65
66
67
68
69
70
71
72
73
74
1
2
3
4
5
6
7
8
Lth
SS
XRD
SS
IW
PAL
CALCAREOUS CLAY WITH FORAMINIFERS and SILTY CLAY
Major Lithologies:
Core consists predominantly of commonly bioturbated, sulfide-mottled, greenish gray (10YR 7/1) CALCAREOUS CLAY WITH FORAMINIFERS interbedded with thin (1-2 cm) SILTY CLAY layers in Sections 1 and 3. Core is homogenous and devoid of sedimentary structures throughout.

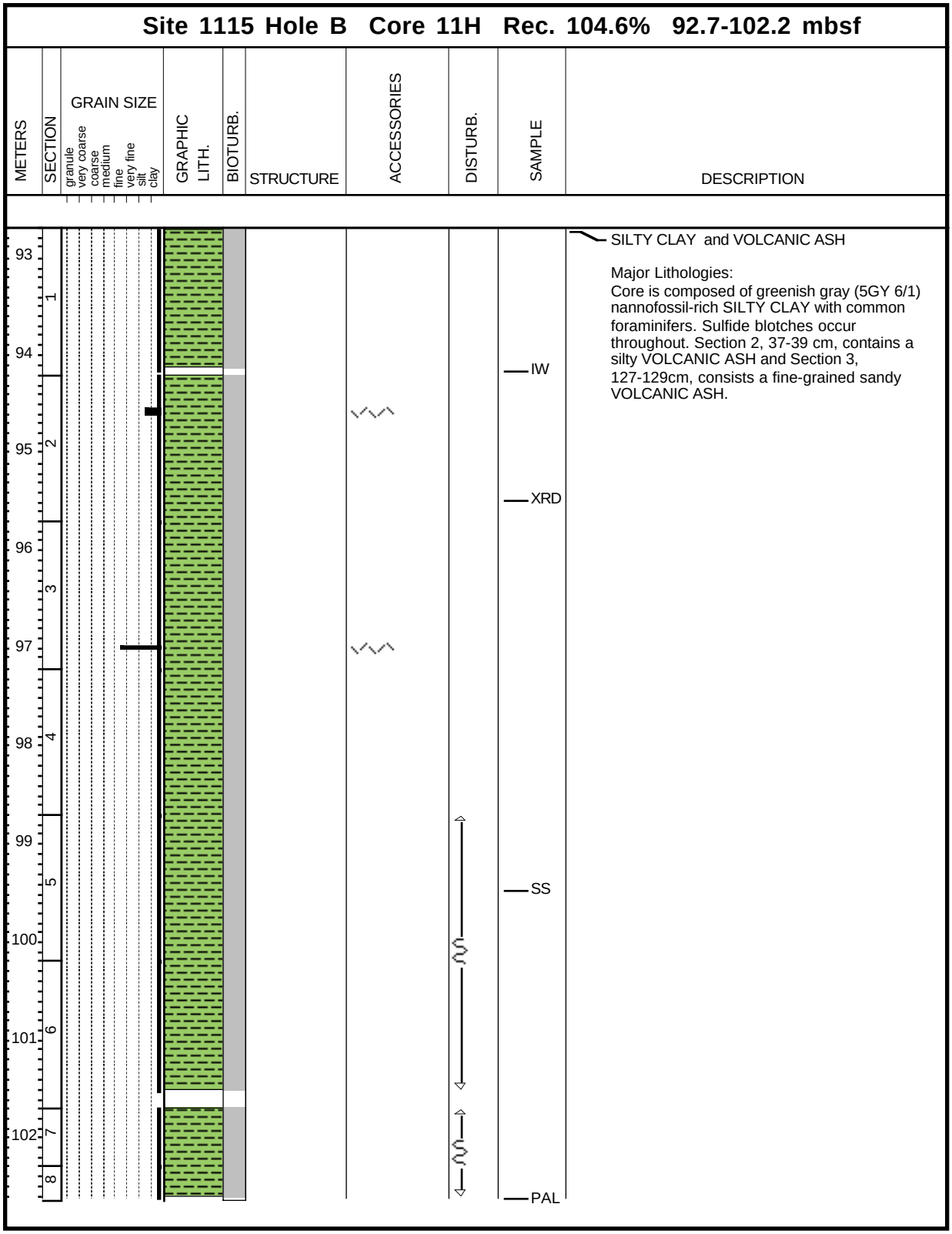
Core Photo


Site 1115 Hole B Core 9H Rec. 106.0% 73.7-83.2 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
74
75
76
77
78
79
80
81
82
83
1
2
3
4
5
6
7
8
Lth
Py
IW
SS
XRD
PAL
CLAY, VOLCANICLASTIC SAND, SAND, SILTY, SILTY CLAY, and VOLCANIC ASH
Major Lithologies:
Section 1, 0-126 cm, contains nannofossil-rich CLAY. The interval from 126-145 cm, is composed of VOLCANICLASTIC SAND which is dominated by colorless glass. Some altered volcanic rock fragments occur at the base of this layer. Section 1, 145-150 cm, and Section 2, 0-3 cm, consist of very coarse- to medium-grained mixed SAND which is rich in volcanic glass, foraminifers and rock fragments. Sections 2, 3-150 cm, 3, 0-145, 4, 0-150 cm, 5, 0-150 cm, and 6, 0-150 cm, are characterized by light gray (5Y 7/1) to greenish gray (5GY 6/1) nannofossil-rich calcareous CLAY with common foraminifers. Sulfide blotches occur throughout. Section 5, 83-85 cm and 103-105 cm, contains two fine-grained, normally graded VOLCANIC ASH. Sections 7 and CC consist of nannofossil-rich SILTY CLAY.

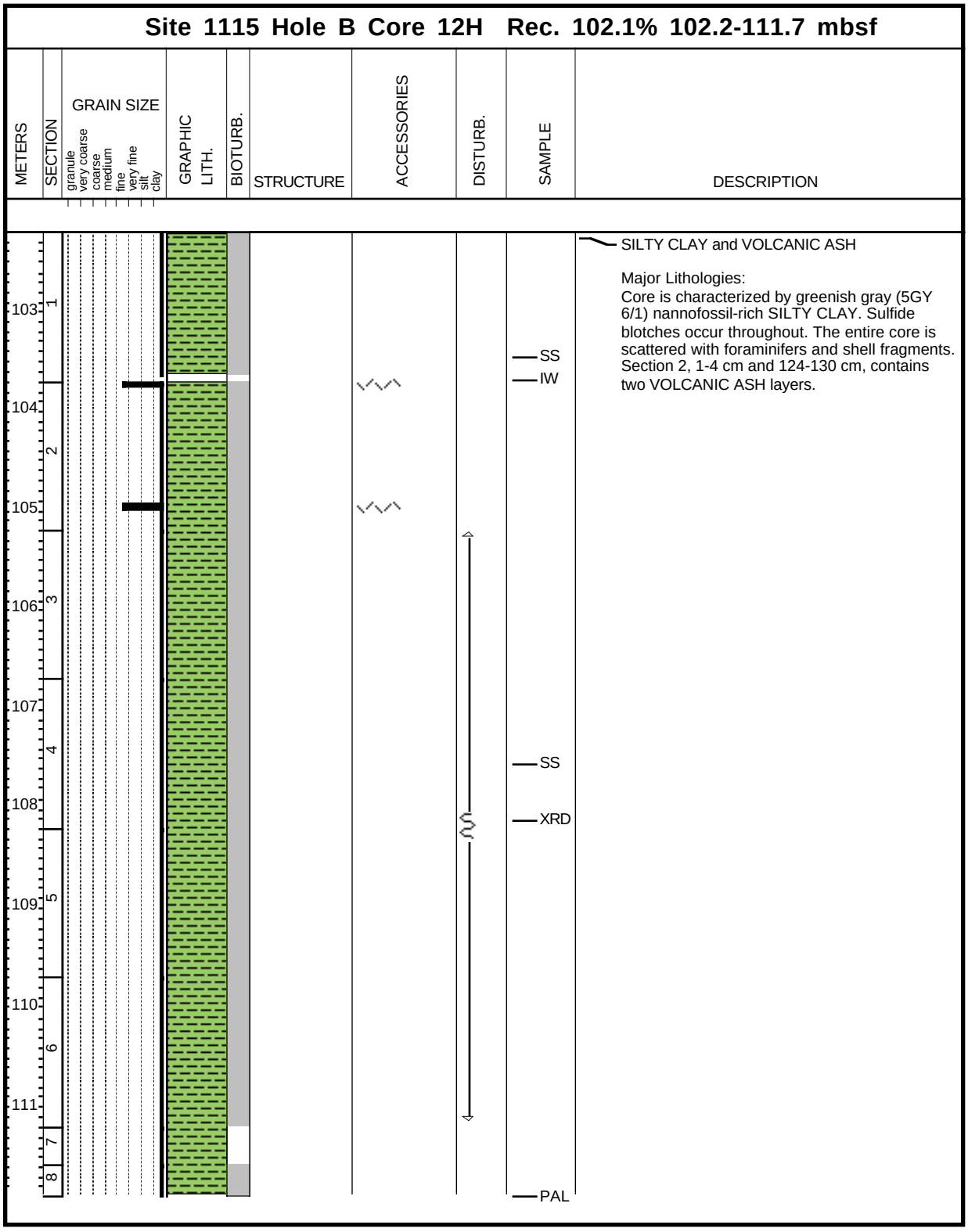
Core Photo


Site 1115 Hole B Core 10H Rec. 102.6% 83.2-92.7 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
84
85
86
87
88
89
90
91
92
1
2
3
4
5
6
7
8
F
Py
Py
Py
Py
SS
WR
WRB
IW
SS
SS
XRD
PAL
SILTY CLAY, VOLCANIC ASH, and VOLCANICLASTIC SAND
Major Lithologies:
Core consists of greenish gray nannofossil-rich SILTY CLAY with sulfide blotches and rare scattered foraminifers. Section 1, 139-133 cm, contains an interval of grayish green (5G 4/2) medium- to very fine-grained VOLCANIC ASH. Section 4, 51-62.5 cm, shows an interval of reverse graded VOLCANICLASTIC SAND followed by a VOLCANIC ASH.

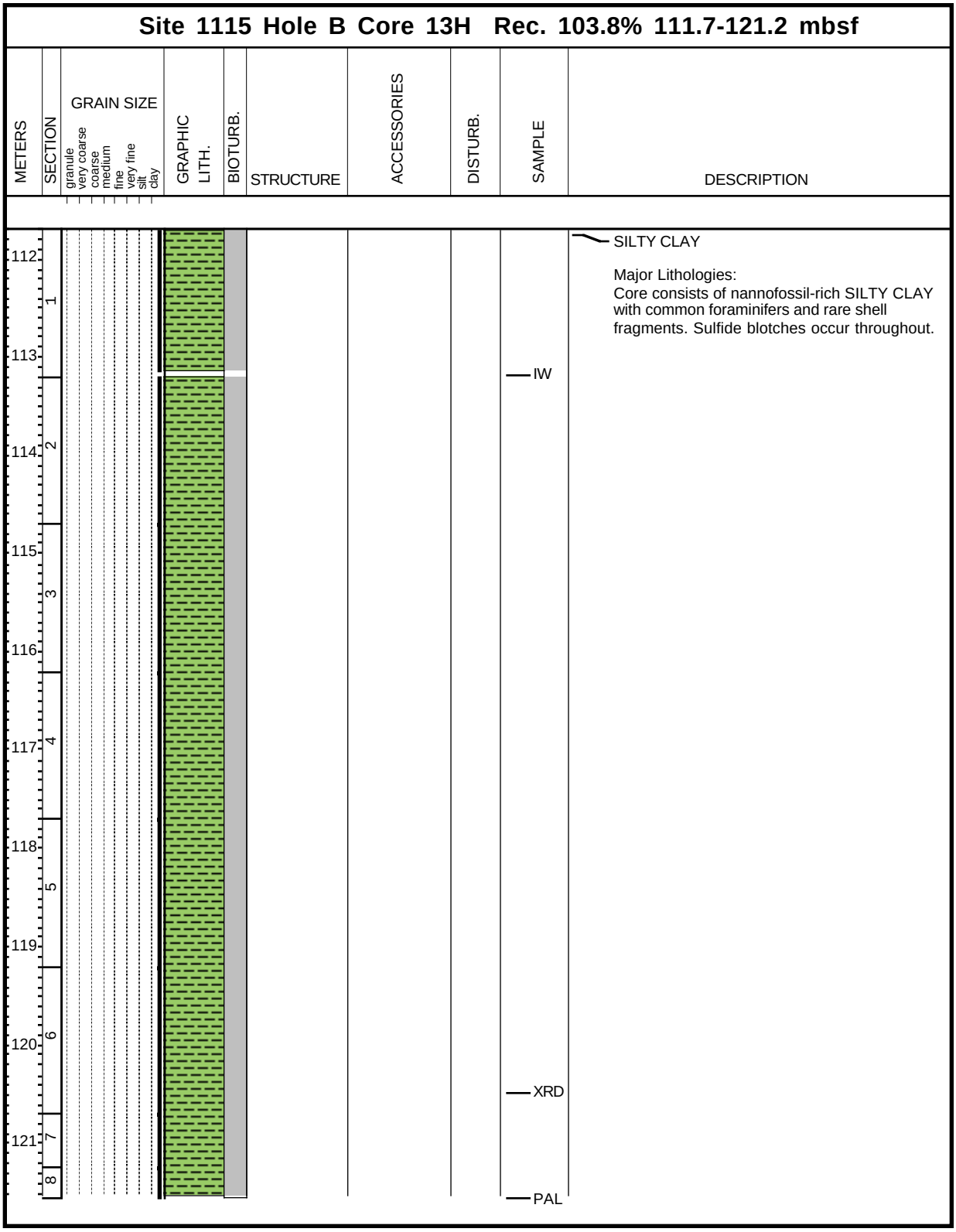
Core Photo


Site 1115 Hole B Core 11H Rec. 104.6% 92.7-102.2 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
93
94
95
96
97
98
99
100
101
102
1
2
3
4
5
6
7
8
IW
XRD
SS
PAL
SILTY CLAY and VOLCANIC ASH
Major Lithologies:
Core is composed of greenish gray (5GY 6/1) nannofossil-rich SILTY CLAY with common foraminifers. Sulfide blotches occur throughout. Section 2, 37-39 cm, contains a silty VOLCANIC ASH and Section 3, 127-129cm, consists a fine-grained sandy VOLCANIC ASH.

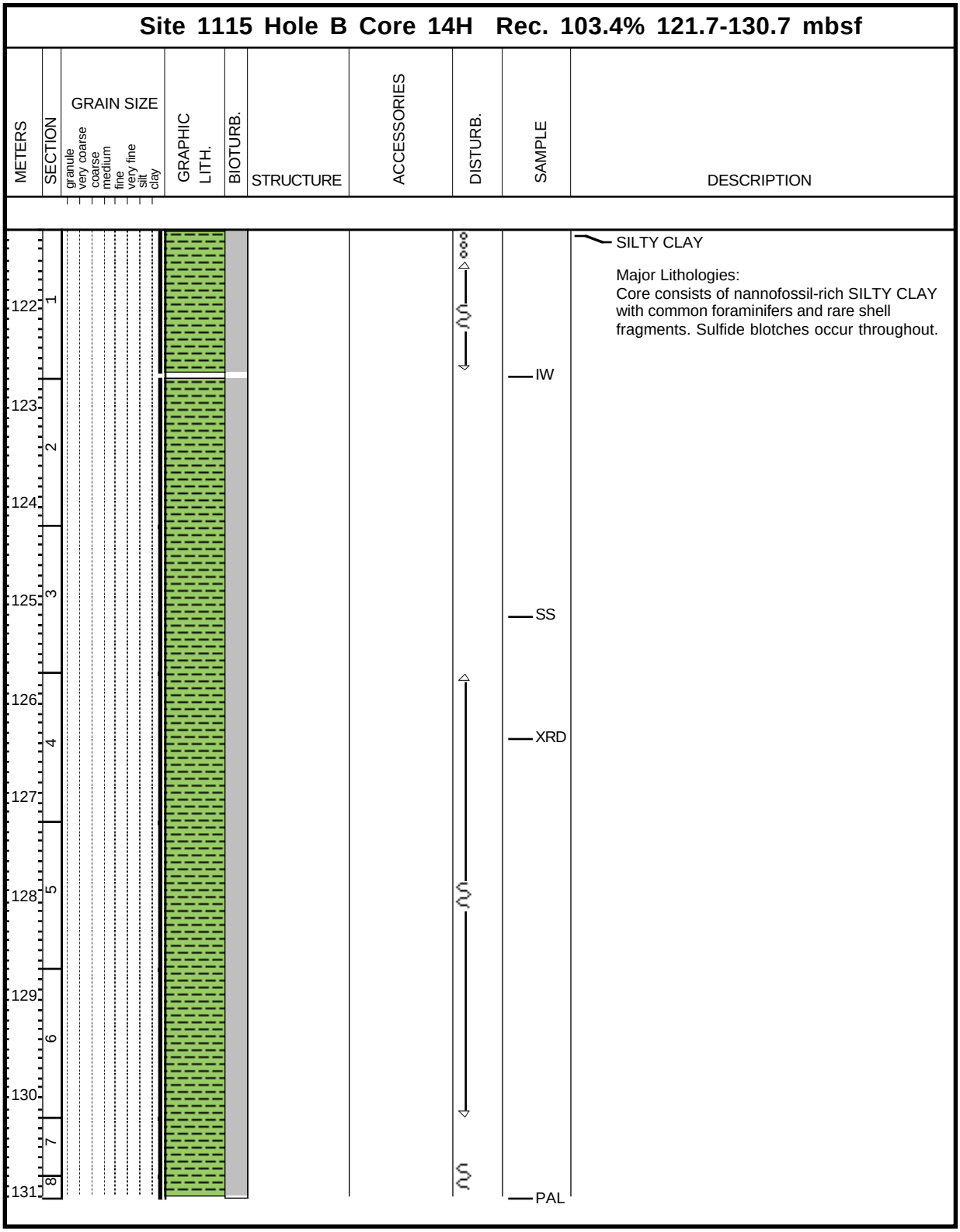
Core Photo


Site 1115 Hole B Core 12H Rec. 102.1% 102.2-111.7 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
103
104
105
106
107
108
109
110
111
1
2
3
4
5
6
7
8
SS
IW
SS
XRD
PAL
SILTY CLAY and VOLCANIC ASH
Major Lithologies:
Core is characterized by greenish gray (5GY 6/1) nannofossil-rich SILTY CLAY. Sulfide blotches occur throughout. The entire core is scattered with foraminifers and shell fragments. Section 2, 1-4 cm and 124-130 cm, contains two VOLCANIC ASH layers.

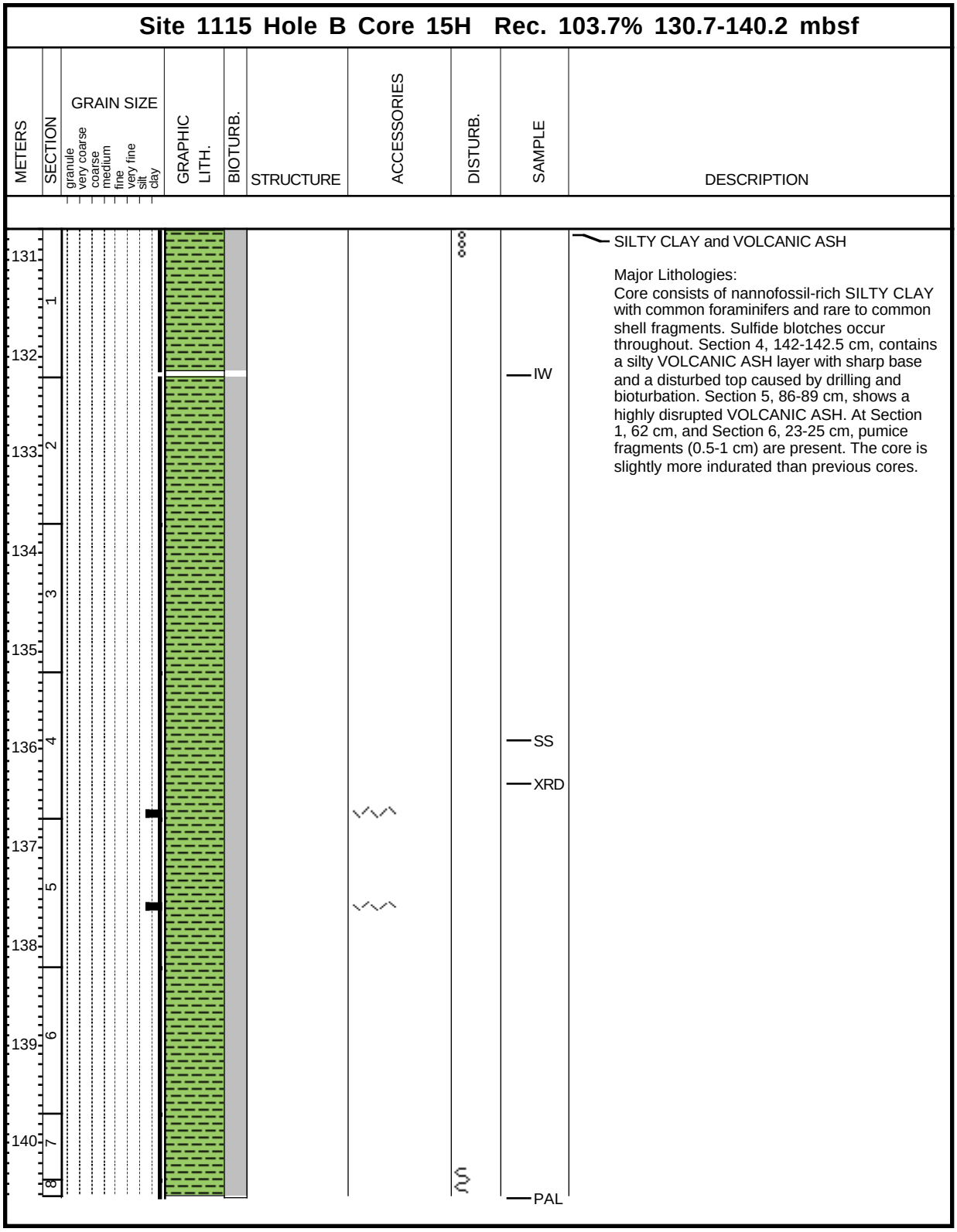
Core Photo


Site 1115 Hole B Core 13H Rec. 103.8% 111.7-121.2 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
112
113
114
115
116
117
118
119
120
121
1
2
3
4
5
6
7
8
SILTY CLAY
Major Lithologies:
Core consists of nannofossil-rich SILTY CLAY with common foraminifers and rare shell fragments. Sulfide blotches occur throughout.
IW
XRD
PAL

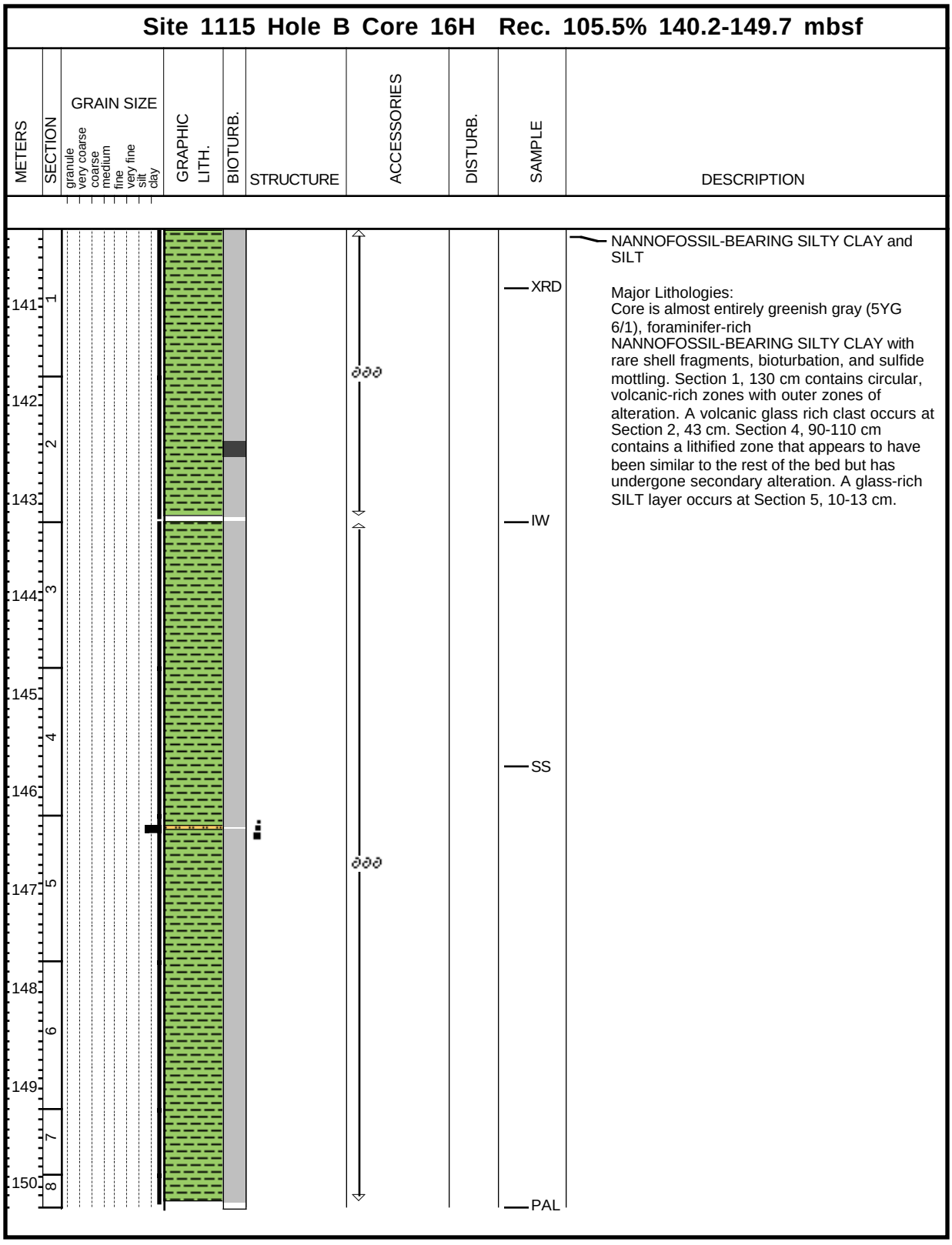
Core Photo


Site 1115 Hole B Core 14H Rec. 103.4% 121.7-130.7 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
122
123
124
125
126
127
128
129
130
131
1
2
3
4
5
6
7
8
IW
SS
XRD
PAL
SILTY CLAY
Major Lithologies:
Core consists of nannofossil-rich SILTY CLAY with common foraminifers and rare shell fragments. Sulfide blotches occur throughout.

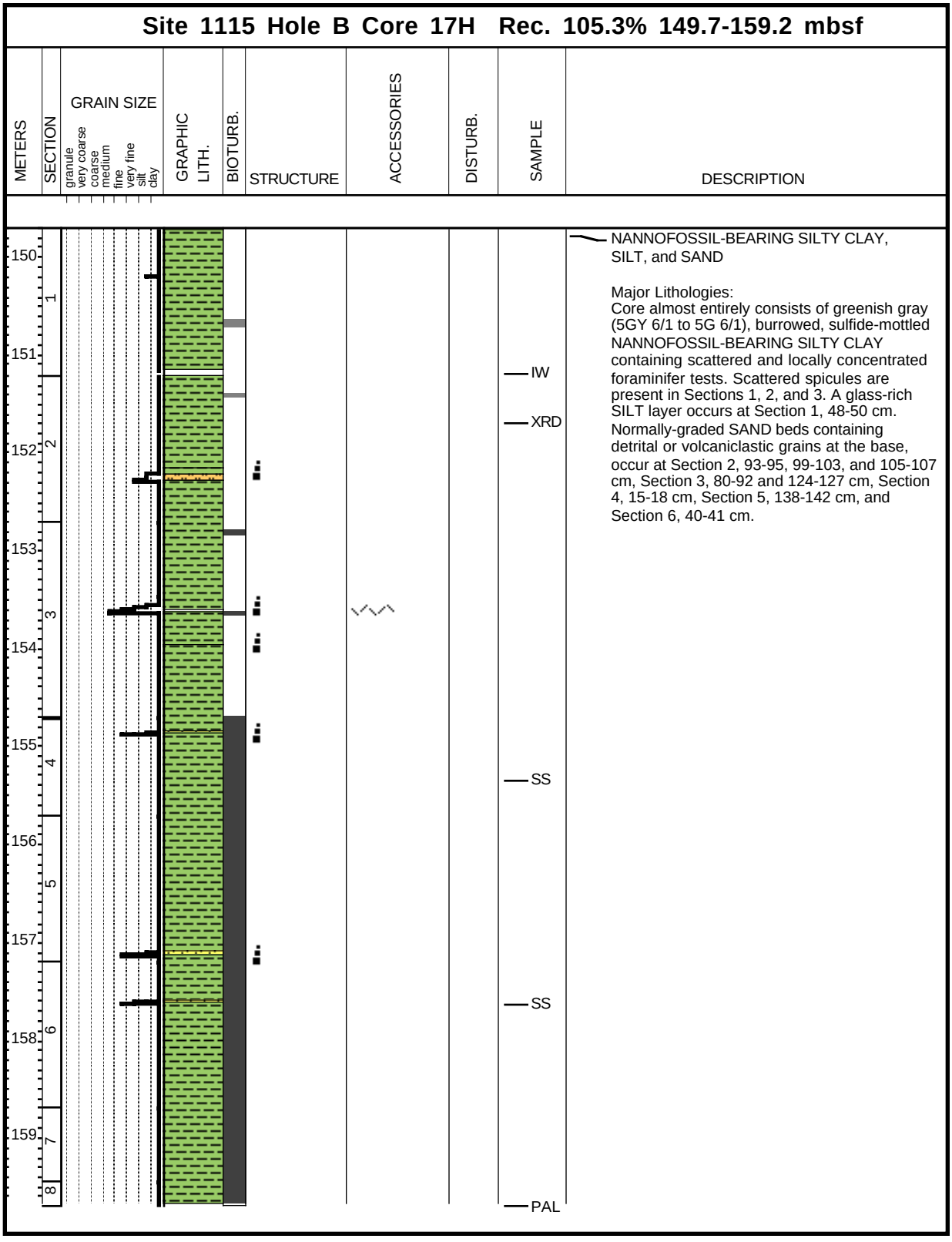
Core Photo


Site 1115 Hole B Core 15H Rec. 103.7% 130.7-140.2 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
131
132
133
134
135
136
137
138
139
140
1
2
3
4
5
6
7
8
IW
SS
XRD
PAL
SILTY CLAY and VOLCANIC ASH
Major Lithologies:
Core consists of nannofossil-rich SILTY CLAY with common foraminifers and rare to common shell fragments. Sulfide blotches occur throughout. Section 4, 142-142.5 cm, contains a silty VOLCANIC ASH layer with sharp base and a disturbed top caused by drilling and bioturbation. Section 5, 86-89 cm, shows a highly disrupted VOLCANIC ASH. At Section 1, 62 cm, and Section 6, 23-25 cm, pumice fragments (0.5-1 cm) are present. The core is slightly more indurated than previous cores.

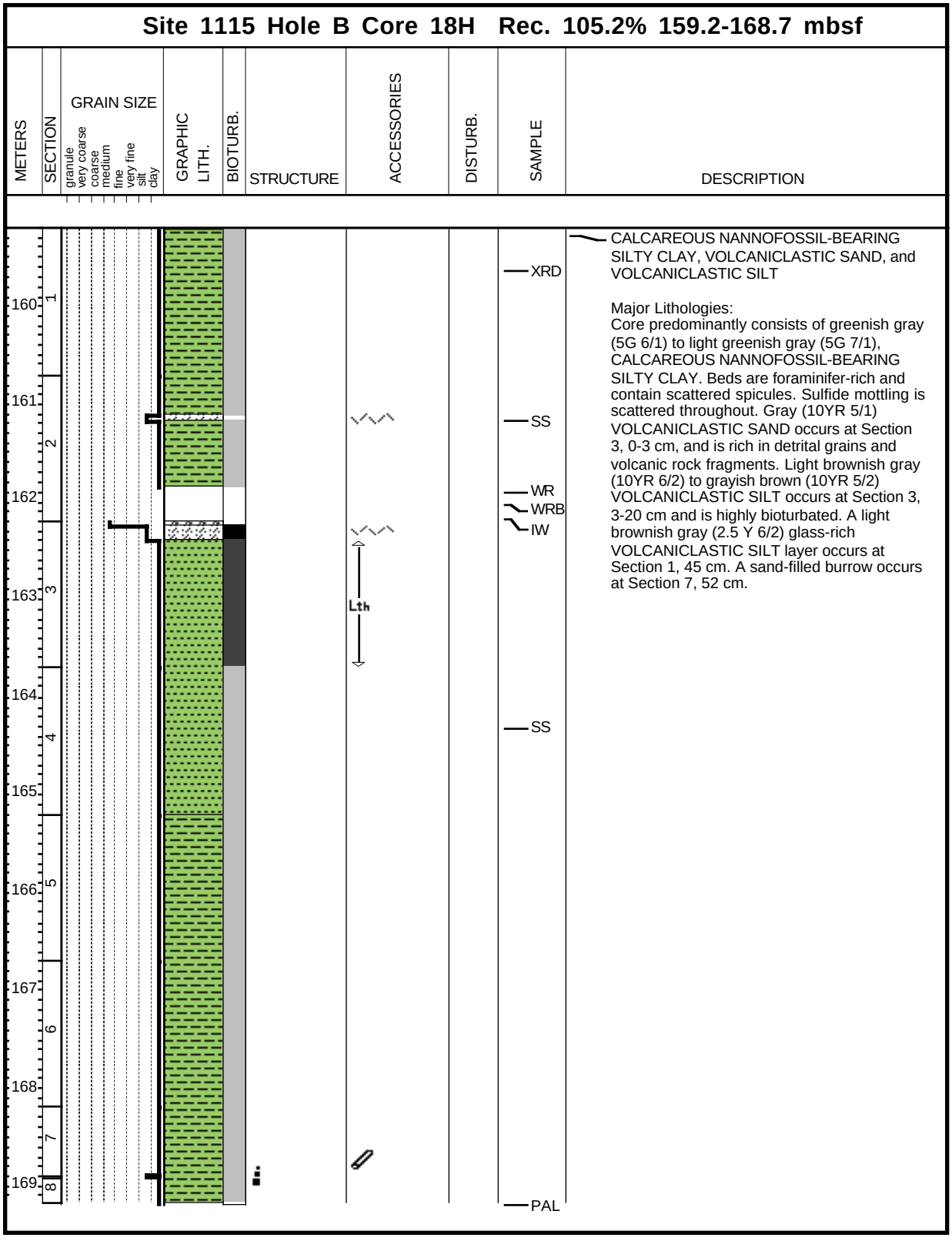
Core Photo


Site 1115 Hole B Core 16H Rec. 105.5% 140.2-149.7 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
141
142
143
144
145
146
147
148
149
150
1
2
3
4
5
6
7
8
XRD
IW
SS
PAL
NANNOFOSSIL-BEARING SILTY CLAY and SILT
Major Lithologies:
Core is almost entirely greenish gray (5YG 6/1), foraminifer-rich NANNOFOSSIL-BEARING SILTY CLAY with rare shell fragments, bioturbation, and sulfide mottling. Section 1, 130 cm contains circular, volcanic-rich zones with outer zones of alteration. A volcanic glass rich clast occurs at Section 2, 43 cm. Section 4, 90-110 cm contains a lithified zone that appears to have been similar to the rest of the bed but has undergone secondary alteration. A glass-rich SILT layer occurs at Section 5, 10-13 cm.

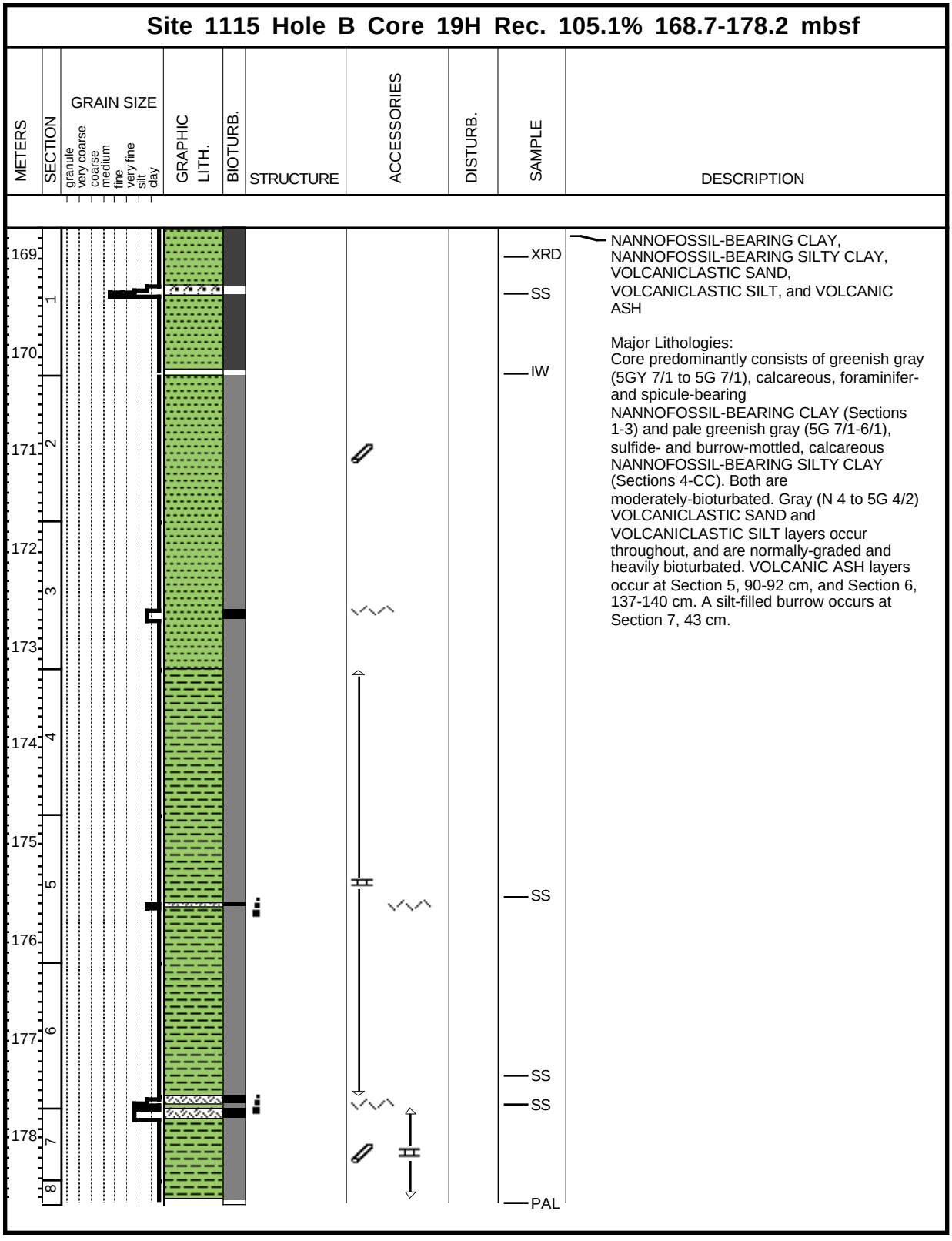
Core Photo


Site 1115 Hole B Core 17H Rec. 105.3% 149.7-159.2 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
150
151
152
153
154
155
156
157
158
159
1
2
3
4
5
6
7
8
IW
XRD
SS
SS
PAL
NANNOFOSSIL-BEARING SILTY CLAY, SILT, and SAND
Major Lithologies:
Core almost entirely consists of greenish gray (5GY 6/1 to 5G 6/1), burrowed, sulfide-mottled NANNOFOSSIL-BEARING SILTY CLAY containing scattered and locally concentrated foraminifer tests. Scattered spicules are present in Sections 1, 2, and 3. A glass-rich SILT layer occurs at Section 1, 48-50 cm. Normally-graded SAND beds containing detrital or volcaniclastic grains at the base, occur at Section 2, 93-95, 99-103, and 105-107 cm, Section 3, 80-92 and 124-127 cm, Section 4, 15-18 cm, Section 5, 138-142 cm, and Section 6, 40-41 cm.

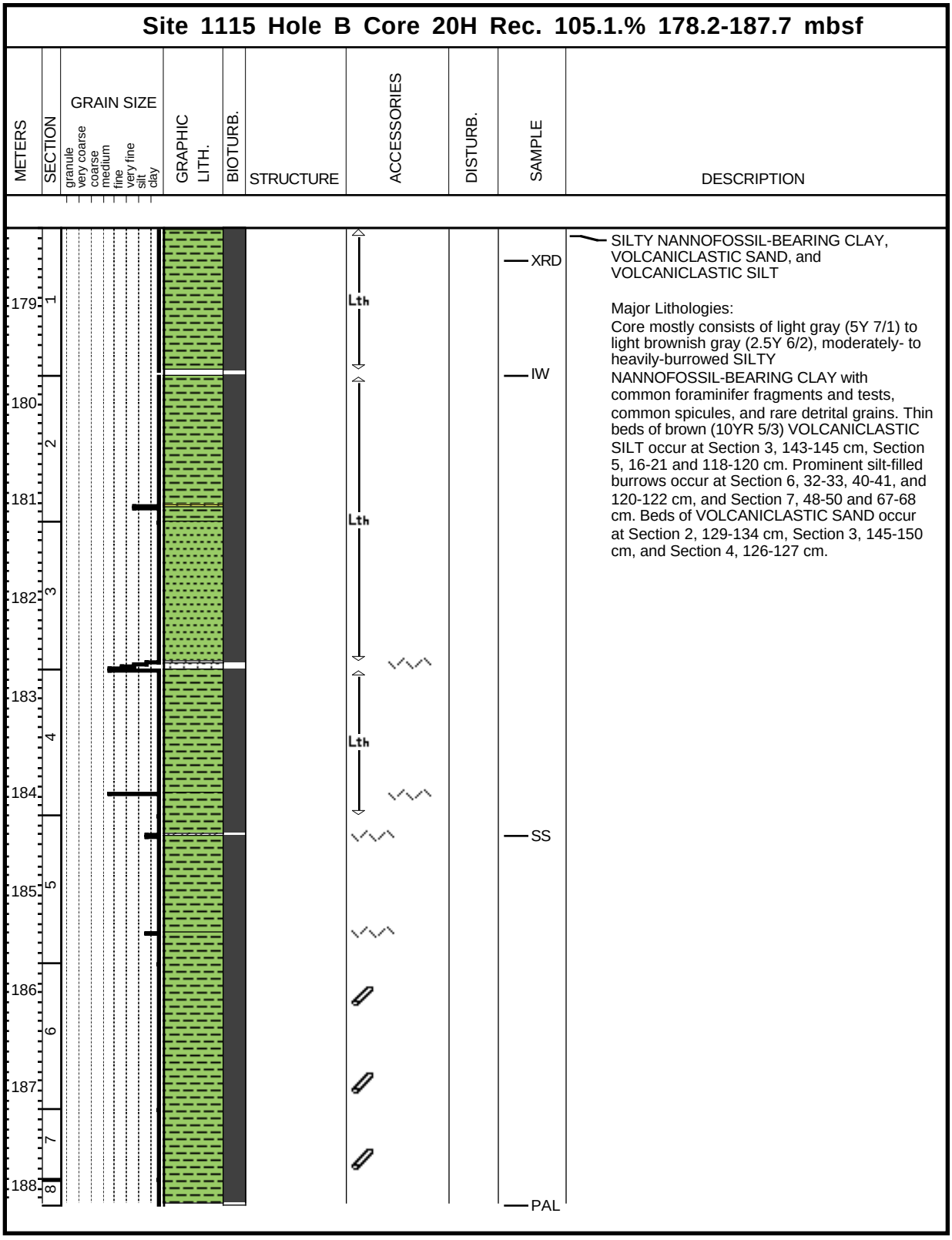
Core Photo


Site 1115 Hole B Core 18H Rec. 105.2% 159.2-168.7 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
160
161
162
163
164
165
166
167
168
169
1
2
3
4
5
6
7
8
XRD
SS
WR
WRB
IW
Lth
SS
PAL
CALCAREOUS NANNOFOSSIL-BEARING SILTY CLAY, VOLCANICLASTIC SAND, and VOLCANICLASTIC SILT
Major Lithologies:
Core predominantly consists of greenish gray (5G 6/1) to light greenish gray (5G 7/1), CALCAREOUS NANNOFOSSIL-BEARING SILTY CLAY. Beds are foraminifer-rich and contain scattered spicules. Sulfide mottling is scattered throughout. Gray (10YR 5/1) VOLCANICLASTIC SAND occurs at Section 3, 0-3 cm, and is rich in detrital grains and volcanic rock fragments. Light brownish gray (10YR 6/2) to grayish brown (10YR 5/2) VOLCANICLASTIC SILT occurs at Section 3, 3-20 cm and is highly bioturbated. A light brownish gray (2.5 Y 6/2) glass-rich VOLCANICLASTIC SILT layer occurs at Section 1, 45 cm. A sand-filled burrow occurs at Section 7, 52 cm.

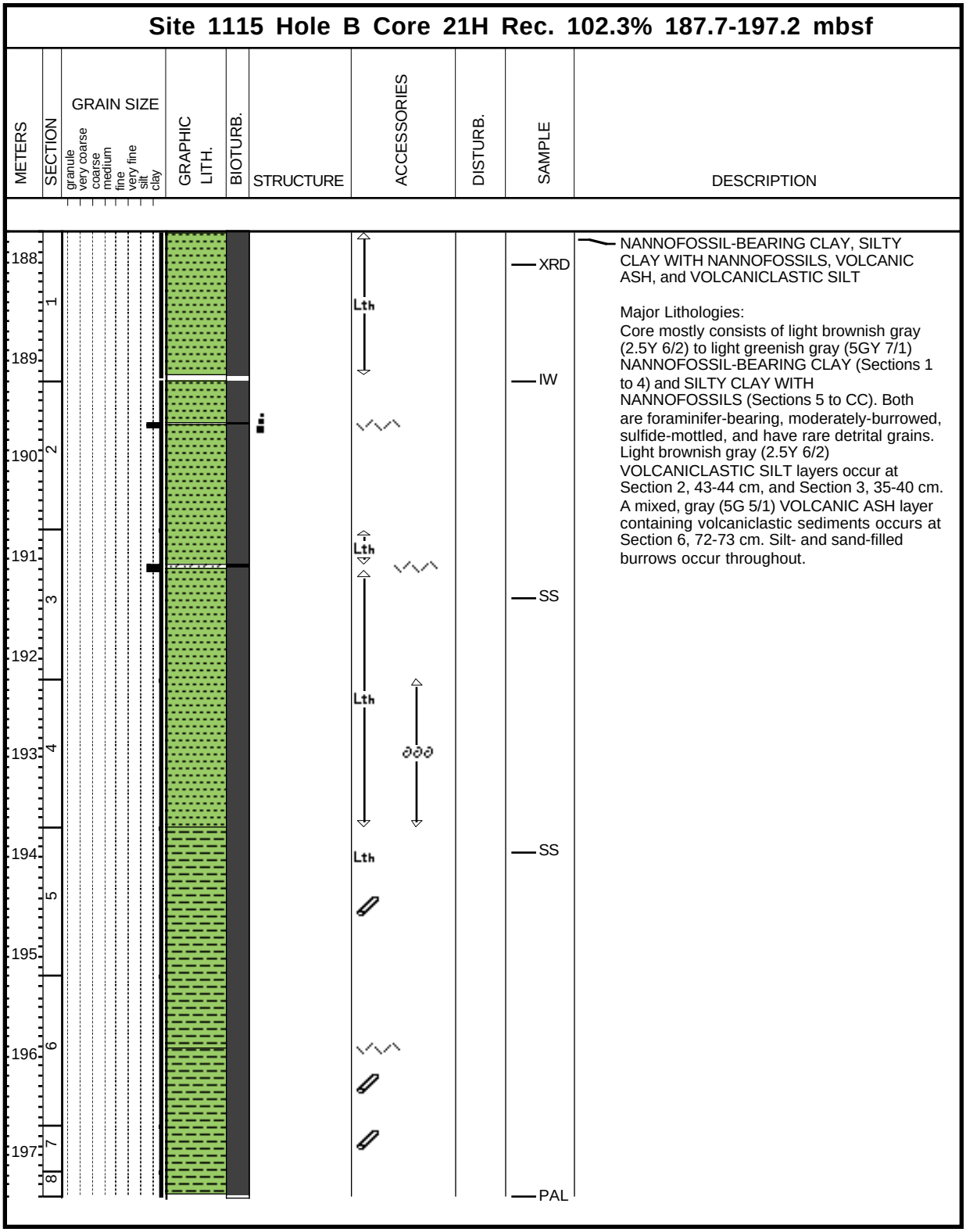
Core Photo


Site 1115 Hole B Core 19H Rec. 105.1% 168.7-178.2 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
169
170
171
172
173
174
175
176
177
178
1
2
3
4
5
6
7
8
XRD
SS
IW
SS
SS
SS
PAL
NANNOFOSSIL-BEARING CLAY, NANNOFOSSIL-BEARING SILTY CLAY, VOLCANICLASTIC SAND, VOLCANICLASTIC SILT, and VOLCANIC ASH
Major Lithologies:
Core predominantly consists of greenish gray (5GY 7/1 to 5G 7/1), calcareous, foraminifer- and spicule-bearing NANNOFOSSIL-BEARING CLAY (Sections 1-3) and pale greenish gray (5G 7/1-6/1), sulfide- and burrow-mottled, calcareous NANNOFOSSIL-BEARING SILTY CLAY (Sections 4-CC). Both are moderately-bioturbated. Gray (N 4 to 5G 4/2) VOLCANICLASTIC SAND and VOLCANICLASTIC SILT layers occur throughout, and are normally-graded and heavily bioturbated. VOLCANIC ASH layers occur at Section 5, 90-92 cm, and Section 6, 137-140 cm. A silt-filled burrow occurs at Section 7, 43 cm.

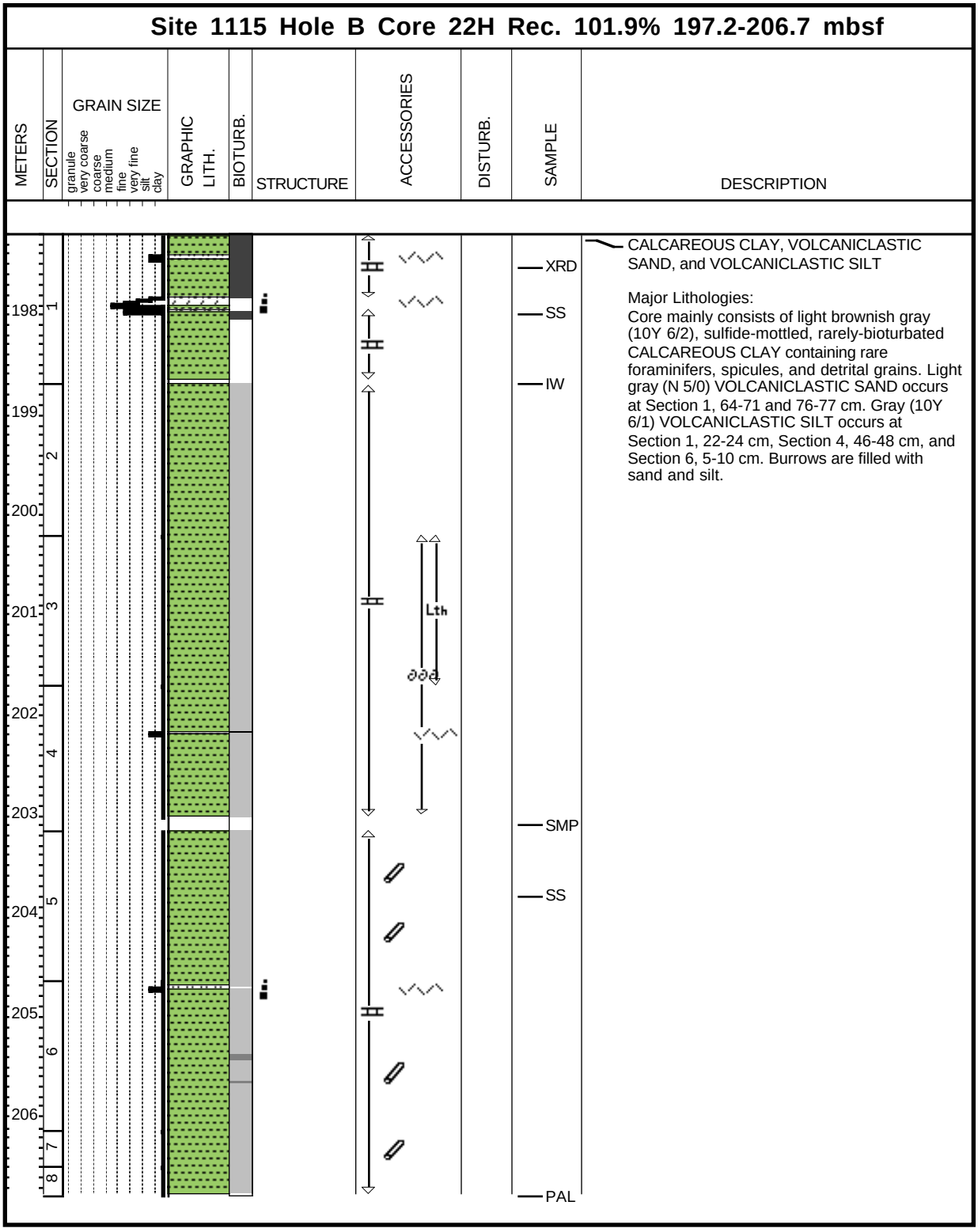
Core Photo


Site 1115 Hole B Core 20H Rec. 105.1.% 178.2-187.7 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
179
180
181
182
183
184
185
186
187
188
1
2
3
4
5
6
7
8
Lth
Lth
Lth
XRD
IW
SS
PAL
SILTY NANNOFOSSIL-BEARING CLAY, VOLCANICLASTIC SAND, and VOLCANICLASTIC SILT
Major Lithologies:
Core mostly consists of light gray (5Y 7/1) to light brownish gray (2.5Y 6/2), moderately- to heavily-burrowed SILTY NANNOFOSSIL-BEARING CLAY with common foraminifer fragments and tests, common spicules, and rare detrital grains. Thin beds of brown (10YR 5/3) VOLCANICLASTIC SILT occur at Section 3, 143-145 cm, Section 5, 16-21 and 118-120 cm. Prominent silt-filled burrows occur at Section 6, 32-33, 40-41, and 120-122 cm, and Section 7, 48-50 and 67-68 cm. Beds of VOLCANICLASTIC SAND occur at Section 2, 129-134 cm, Section 3, 145-150 cm, and Section 4, 126-127 cm.

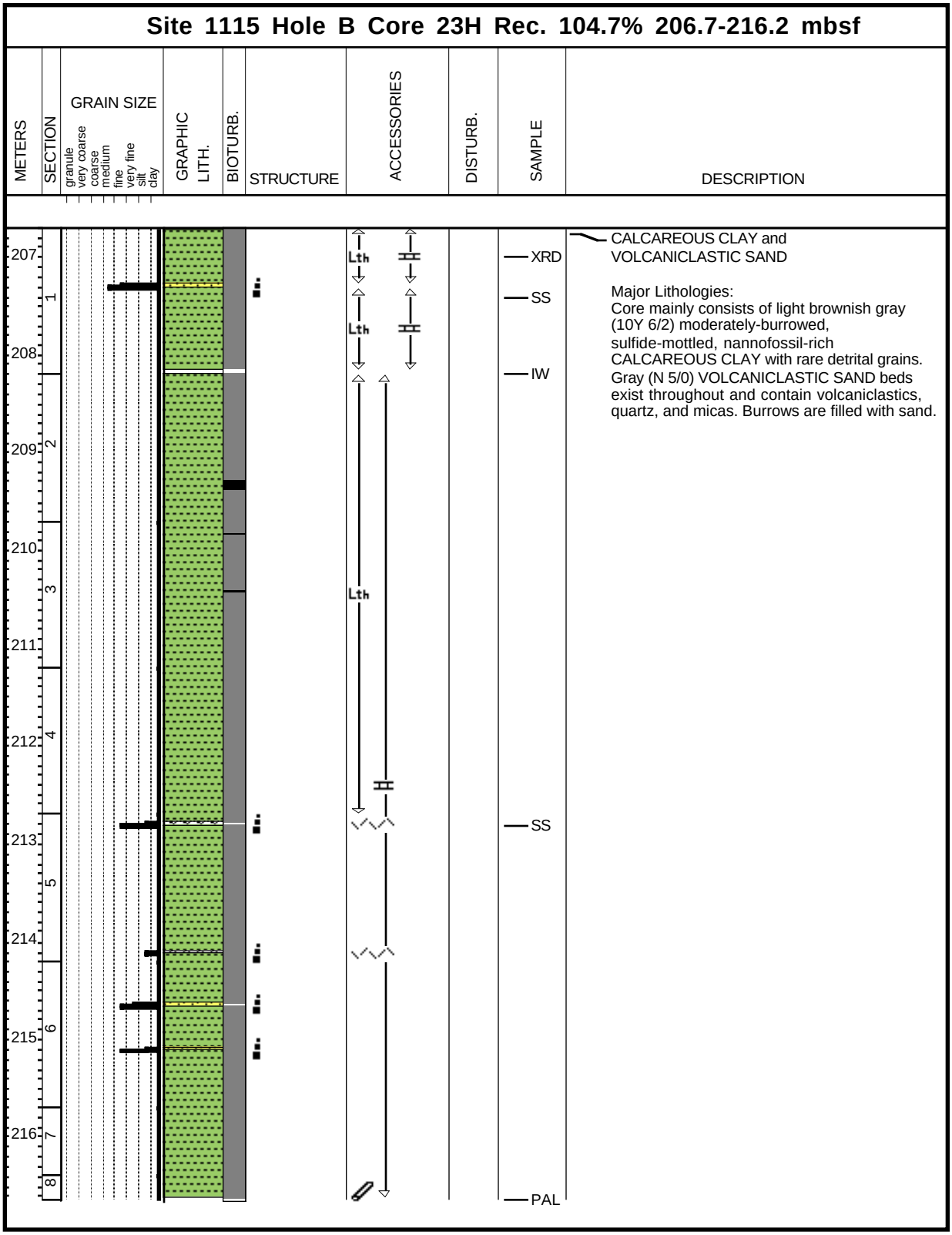
Core Photo


Site 1115 Hole B Core 21H Rec. 102.3% 187.7-197.2 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
188
189
190
191
192
193
194
195
196
197
1
2
3
4
5
6
7
8
Lth
Lth
Lth
Lth
XRD
IW
SS
SS
PAL
NANNOFOSSIL-BEARING CLAY, SILTY CLAY WITH NANNOFOSSILS, VOLCANIC ASH, and VOLCANICLASTIC SILT
Major Lithologies:
Core mostly consists of light brownish gray (2.5Y 6/2) to light greenish gray (5GY 7/1) NANNOFOSSIL-BEARING CLAY (Sections 1 to 4) and SILTY CLAY WITH NANNOFOSSILS (Sections 5 to CC). Both are foraminifer-bearing, moderately-burrowed, sulfide-mottled, and have rare detrital grains. Light brownish gray (2.5Y 6/2) VOLCANICLASTIC SILT layers occur at Section 2, 43-44 cm, and Section 3, 35-40 cm. A mixed, gray (5G 5/1) VOLCANIC ASH layer containing volcaniclastic sediments occurs at Section 6, 72-73 cm. Silt- and sand-filled burrows occur throughout.

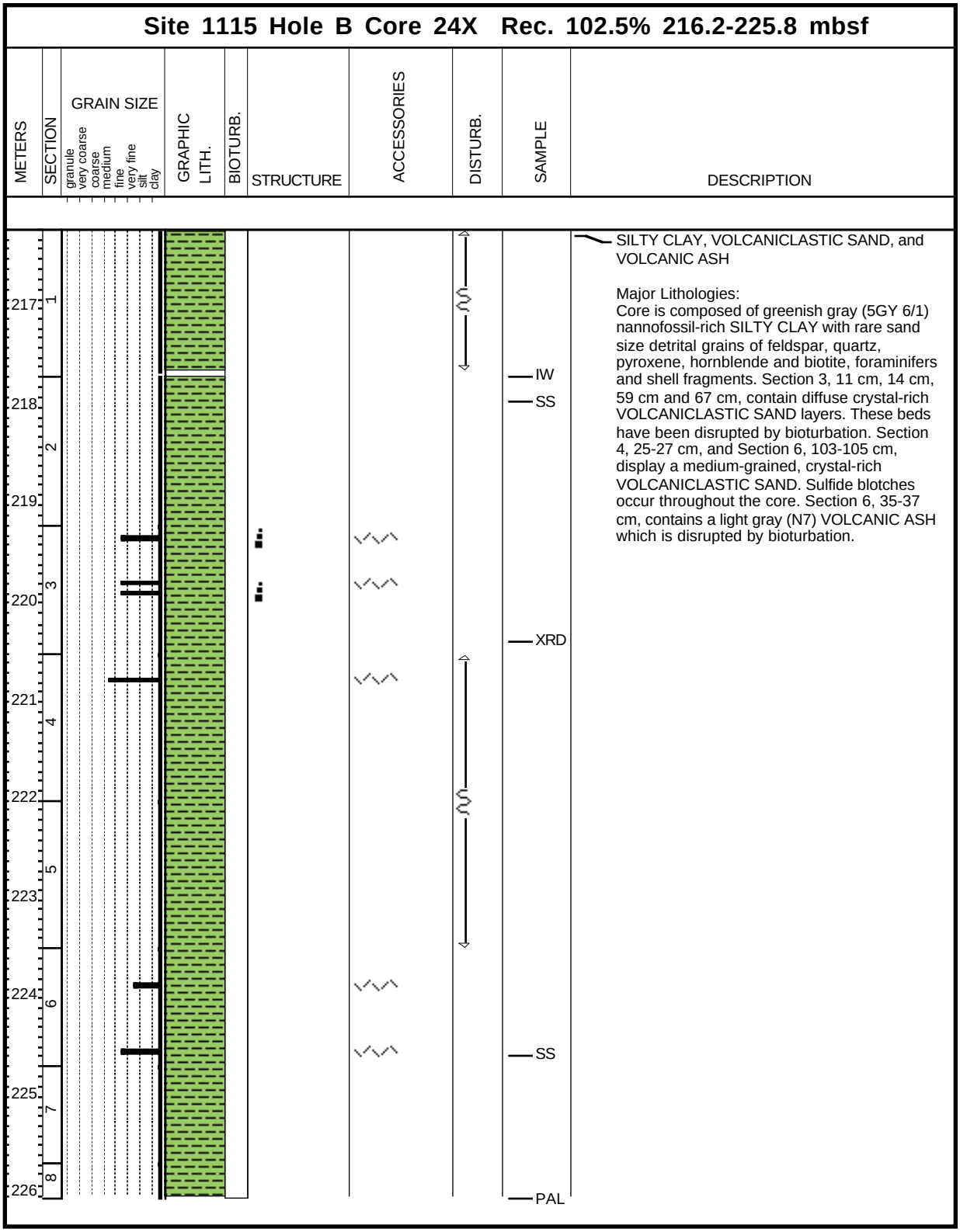
Core Photo


Site 1115 Hole B Core 22H Rec. 101.9% 197.2-206.7 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
198
199
200
201
202
203
204
205
206
1
2
3
4
5
6
7
8
XRD
SS
IW
SMP
SS
PAL
Lth
CALCAREOUS CLAY, VOLCANICLASTIC SAND, and VOLCANICLASTIC SILT
Major Lithologies:
Core mainly consists of light brownish gray (10Y 6/2), sulfide-mottled, rarely-bioturbated CALCAREOUS CLAY containing rare foraminifers, spicules, and detrital grains. Light gray (N 5/0) VOLCANICLASTIC SAND occurs at Section 1, 64-71 and 76-77 cm. Gray (10Y 6/1) VOLCANICLASTIC SILT occurs at Section 1, 22-24 cm, Section 4, 46-48 cm, and Section 6, 5-10 cm. Burrows are filled with sand and silt.

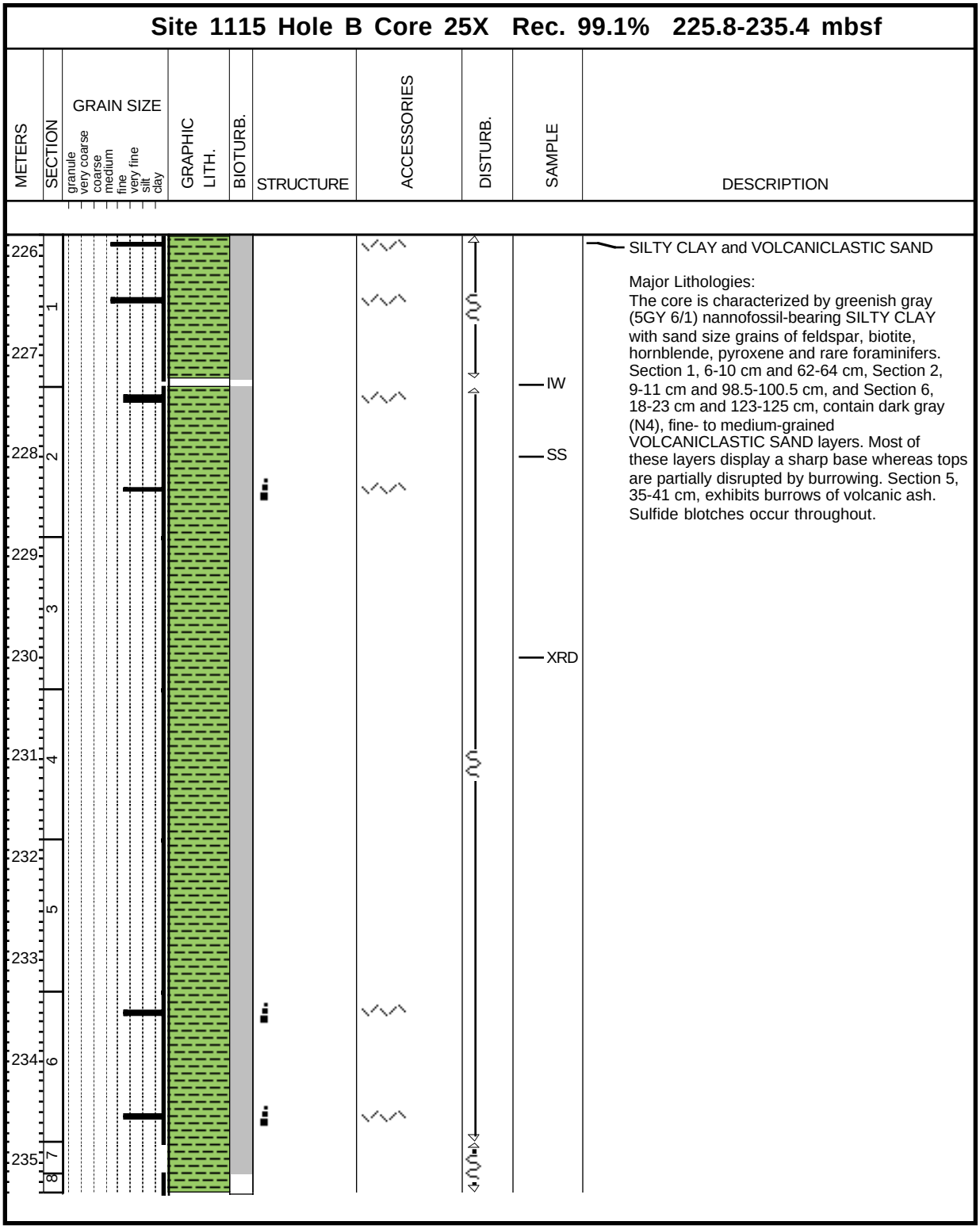
Core Photo


Site 1115 Hole B Core 23H Rec. 104.7% 206.7-216.2 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
207
208
209
210
211
212
213
214
215
216
1
2
3
4
5
6
7
8
Lth
Lth
Lth
XRD
SS
IW
SS
PAL
CALCAREOUS CLAY and VOLCANICLASTIC SAND
Major Lithologies:
Core mainly consists of light brownish gray (10Y 6/2) moderately-burrowed, sulfide-mottled, nannofossil-rich CALCAREOUS CLAY with rare detrital grains. Gray (N 5/0) VOLCANICLASTIC SAND beds exist throughout and contain volcaniclastics, quartz, and micas. Burrows are filled with sand.

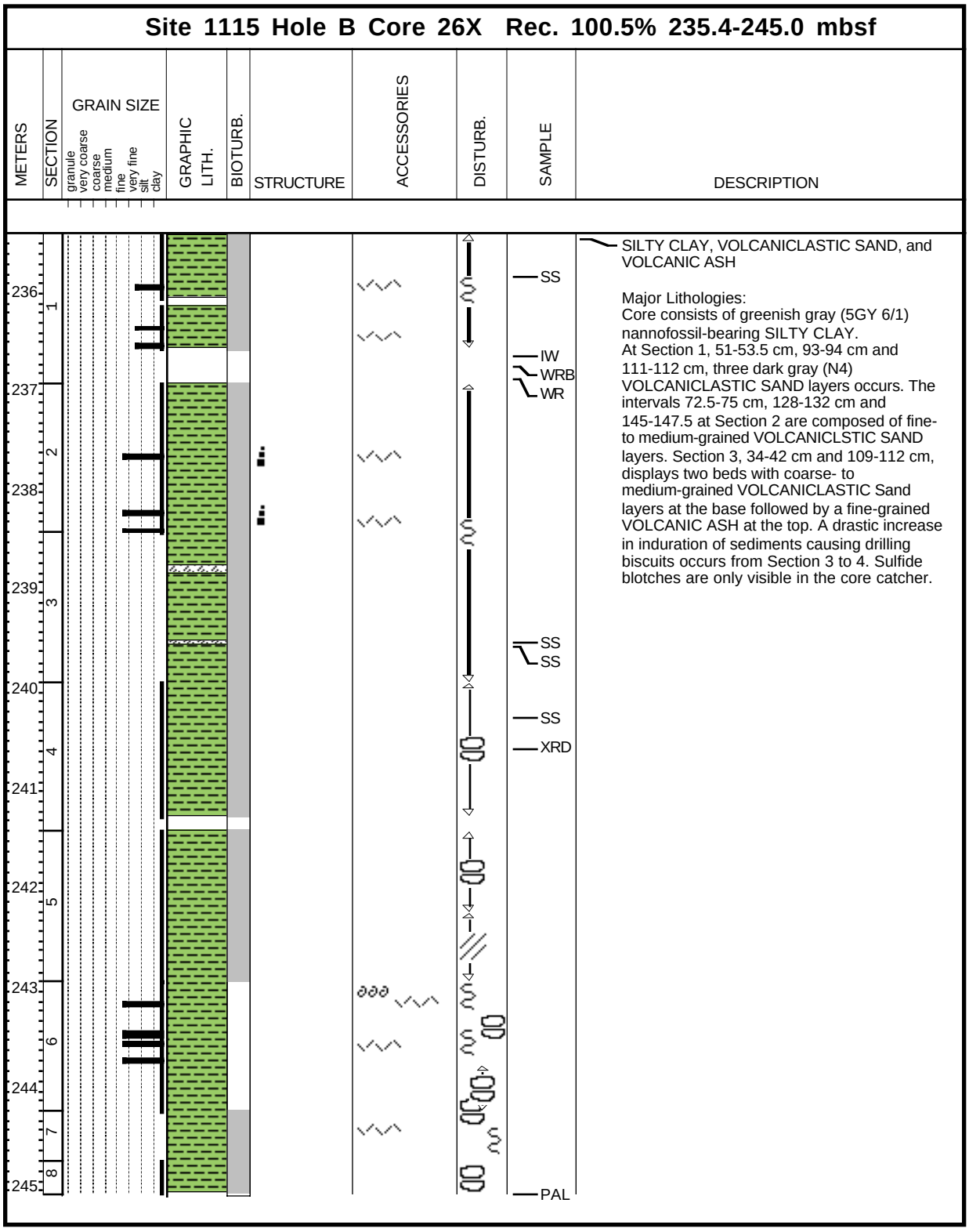
Core Photo


Site 1115 Hole B Core 24X Rec. 102.5% 216.2-225.8 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
217
218
219
220
221
222
223
224
225
226
1
2
3
4
5
6
7
8
IW
SS
XRD
SS
PAL
SILTY CLAY, VOLCANICLASTIC SAND, and VOLCANIC ASH
Major Lithologies:
Core is composed of greenish gray (5GY 6/1) nannofossil-rich SILTY CLAY with rare sand size detrital grains of feldspar, quartz, pyroxene, hornblende and biotite, foraminifers and shell fragments. Section 3, 11 cm, 14 cm, 59 cm and 67 cm, contain diffuse crystal-rich VOLCANICLASTIC SAND layers. These beds have been disrupted by bioturbation. Section 4, 25-27 cm, and Section 6, 103-105 cm, display a medium-grained, crystal-rich VOLCANICLASTIC SAND. Sulfide blotches occur throughout the core. Section 6, 35-37 cm, contains a light gray (N7) VOLCANIC ASH which is disrupted by bioturbation.

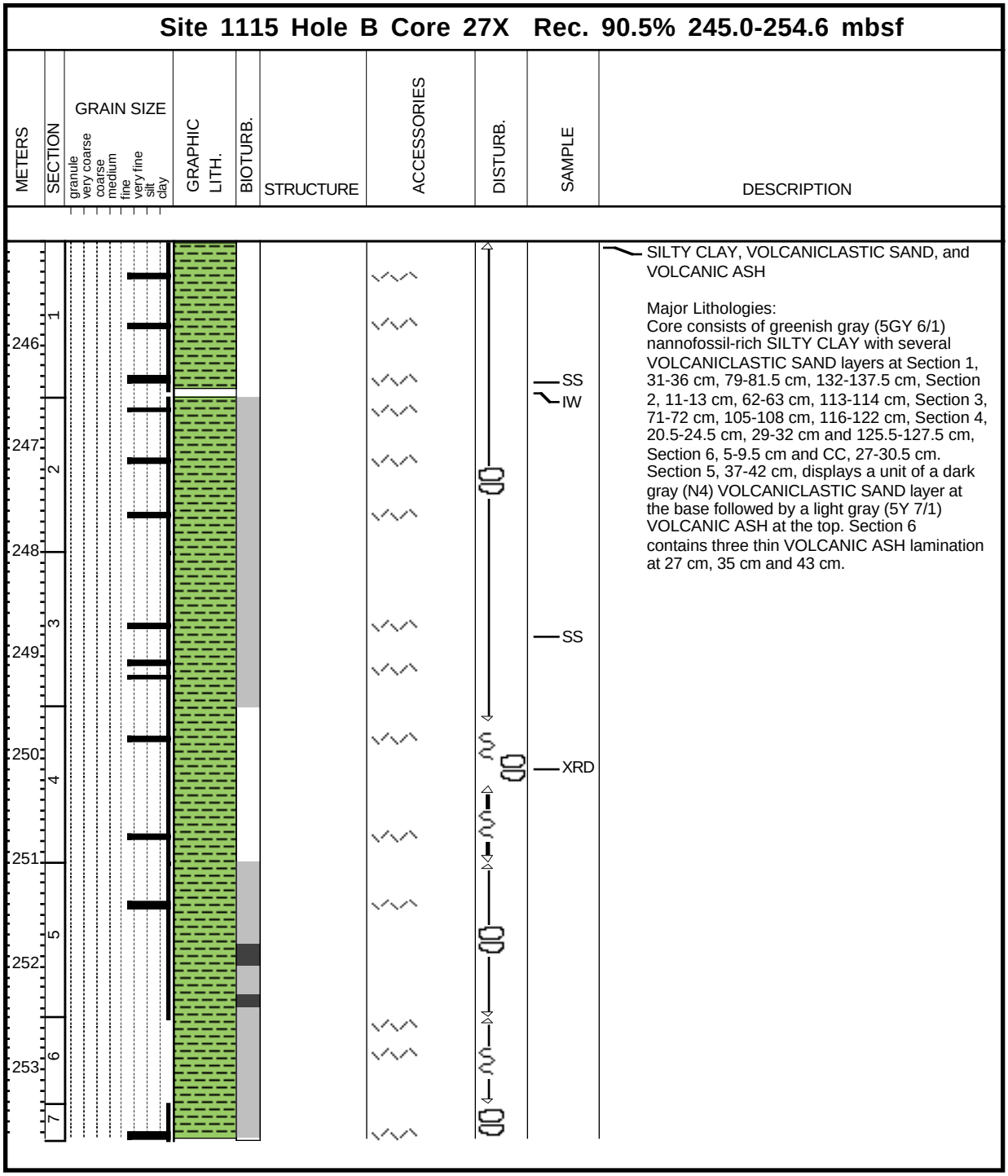
Core Photo


Site 1115 Hole B Core 25X Rec. 99.1% 225.8-235.4 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
226
227
228
229
230
231
232
233
234
235
1
2
3
4
5
6
7
8
IW
SS
XRD
SILTY CLAY and VOLCANICLASTIC SAND
Major Lithologies:
The core is characterized by greenish gray (5GY 6/1) nannofossil-bearing SILTY CLAY with sand size grains of feldspar, biotite, hornblende, pyroxene and rare foraminifers. Section 1, 6-10 cm and 62-64 cm, Section 2, 9-11 cm and 98.5-100.5 cm, and Section 6, 18-23 cm and 123-125 cm, contain dark gray (N4), fine- to medium-grained VOLCANICLASTIC SAND layers. Most of these layers display a sharp base whereas tops are partially disrupted by burrowing. Section 5, 35-41 cm, exhibits burrows of volcanic ash. Sulfide blotches occur throughout.

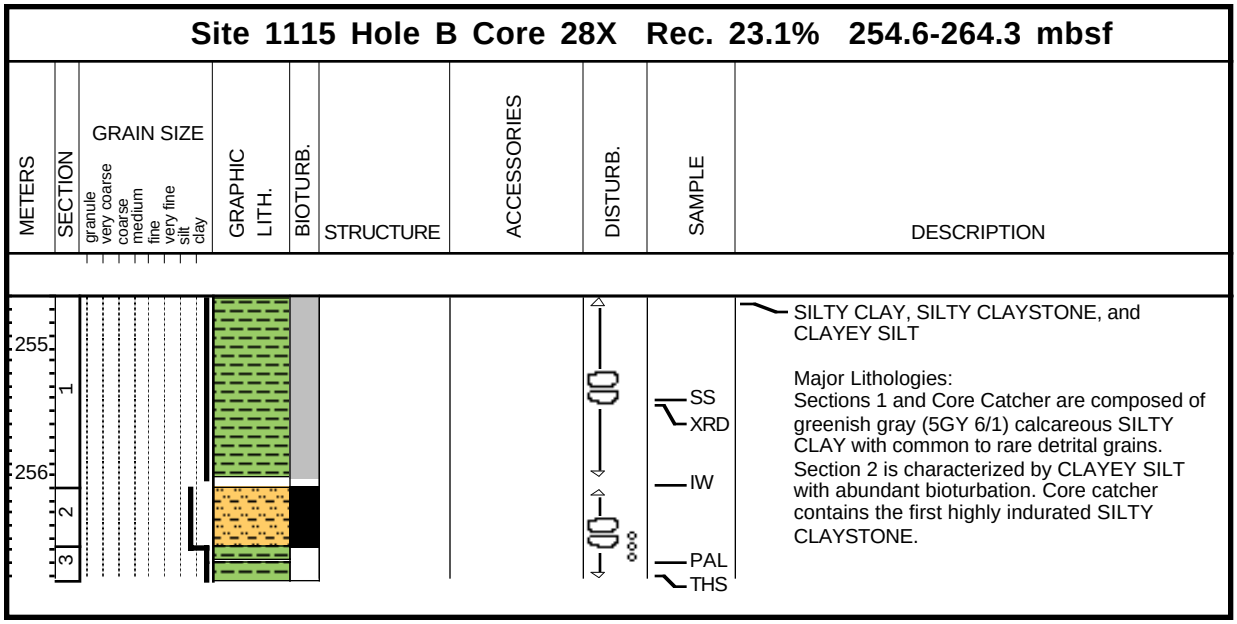
Core Photo


Site 1115 Hole B Core 26X Rec. 100.5% 235.4-245.0 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
236
237
238
239
240
241
242
243
244
245
1
2
3
4
5
6
7
8
SS
IW
WRB
WR
SS
SS
SS
XRD
PAL
SILTY CLAY, VOLCANICLASTIC SAND, and VOLCANIC ASH
Major Lithologies:
Core consists of greenish gray (5GY 6/1) nannofossil-bearing SILTY CLAY.
At Section 1, 51-53.5 cm, 93-94 cm and 111-112 cm, three dark gray (N4) VOLCANICLASTIC SAND layers occurs. The intervals 72.5-75 cm, 128-132 cm and 145-147.5 at Section 2 are composed of fine- to medium-grained VOLCANICLSTIC SAND layers. Section 3, 34-42 cm and 109-112 cm, displays two beds with coarse- to medium-grained VOLCANICLASTIC Sand layers at the base followed by a fine-grained VOLCANIC ASH at the top. A drastic increase in induration of sediments causing drilling biscuits occurs from Section 3 to 4. Sulfide blotches are only visible in the core catcher.

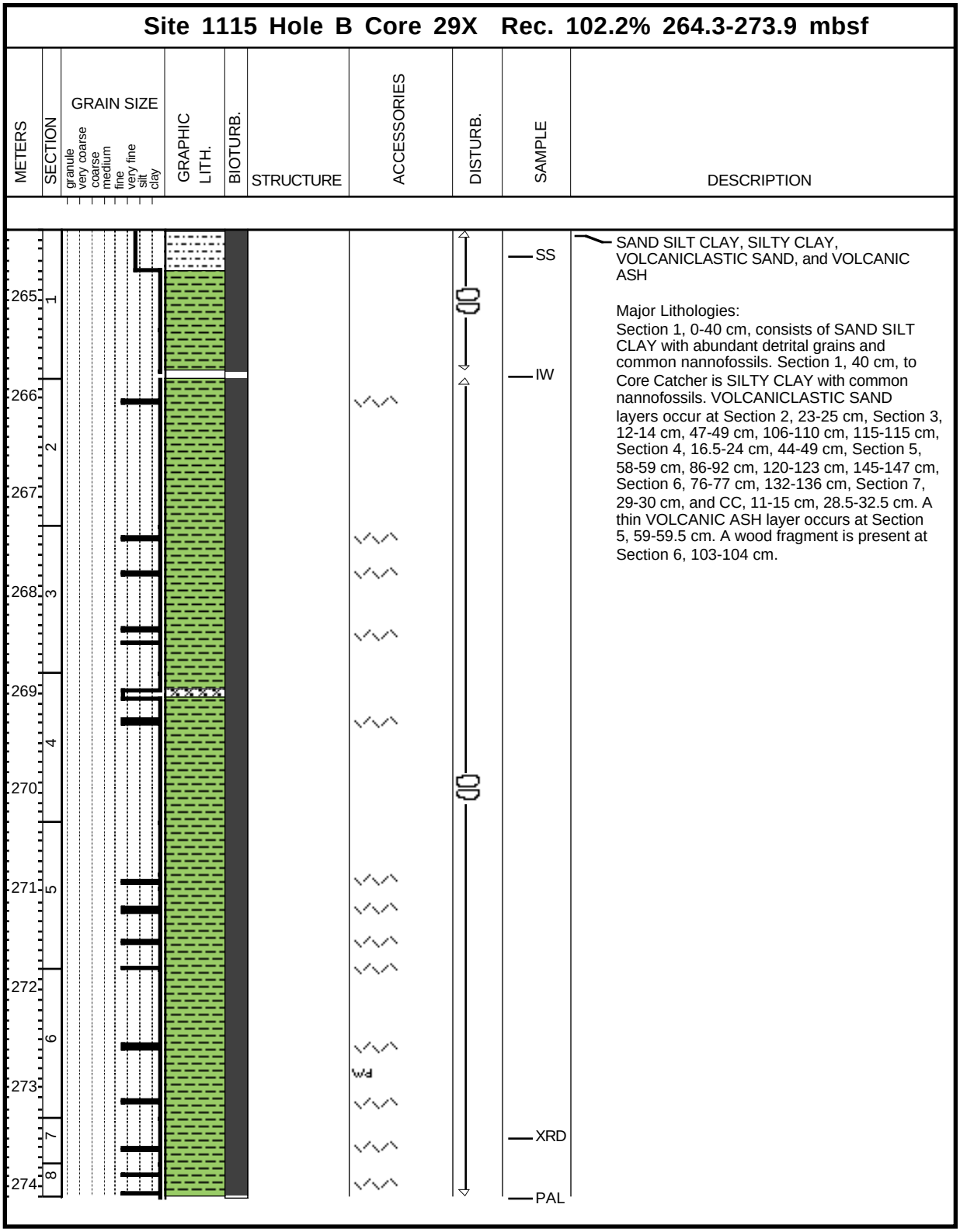
Core Photo


Site 1115 Hole B Core 27X Rec. 90.5% 245.0-254.6 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
246
247
248
249
250
251
252
253
1
2
3
4
5
6
7
SS
IW
SS
XRD
SILTY CLAY, VOLCANICLASTIC SAND, and VOLCANIC ASH
Major Lithologies:
Core consists of greenish gray (5GY 6/1) nannofossil-rich SILTY CLAY with several VOLCANICLASTIC SAND layers at Section 1, 31-36 cm, 79-81.5 cm, 132-137.5 cm, Section 2, 11-13 cm, 62-63 cm, 113-114 cm, Section 3, 71-72 cm, 105-108 cm, 116-122 cm, Section 4, 20.5-24.5 cm, 29-32 cm and 125.5-127.5 cm, Section 6, 5-9.5 cm and CC, 27-30.5 cm. Section 5, 37-42 cm, displays a unit of a dark gray (N4) VOLCANICLASTIC SAND layer at the base followed by a light gray (5Y 7/1) VOLCANIC ASH at the top. Section 6 contains three thin VOLCANIC ASH lamination at 27 cm, 35 cm and 43 cm.

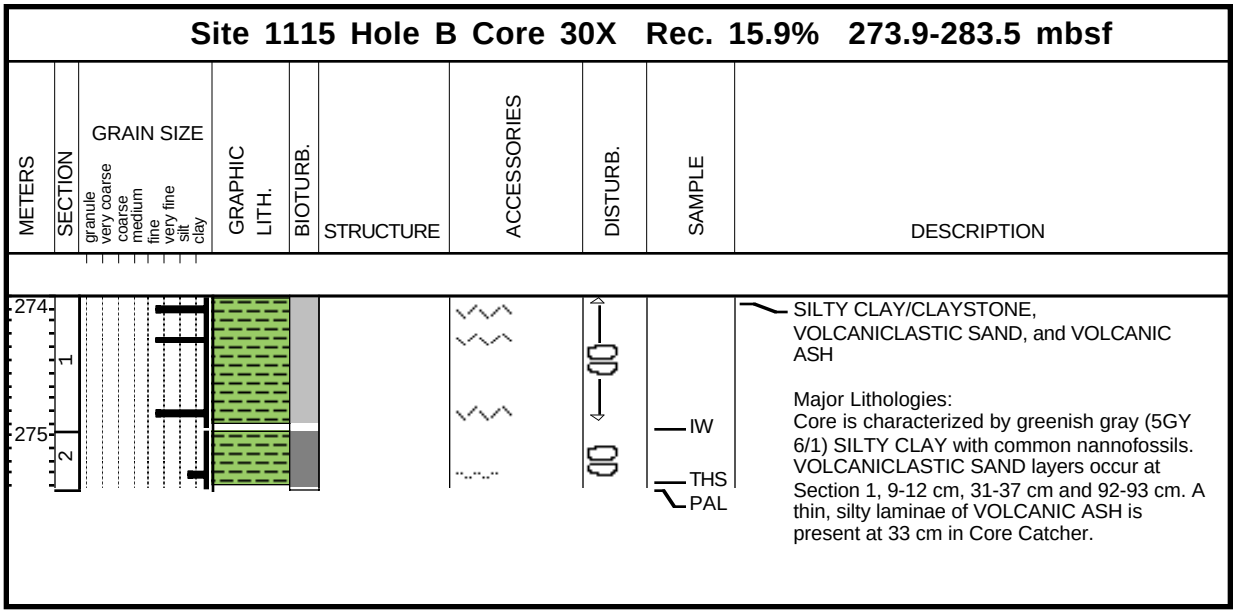
Core Photo


Site 1115 Hole B Core 28X Rec. 23.1% 254.6-264.3 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
255
256
1
2
3
SS
XRD
IW
PAL
THS
SILTY CLAY, SILTY CLAYSTONE, and CLAYEY SILT
Major Lithologies:
Sections 1 and Core Catcher are composed of greenish gray (5GY 6/1) calcareous SILTY CLAY with common to rare detrital grains. Section 2 is characterized by CLAYEY SILT with abundant bioturbation. Core catcher contains the first highly indurated SILTY CLAYSTONE.

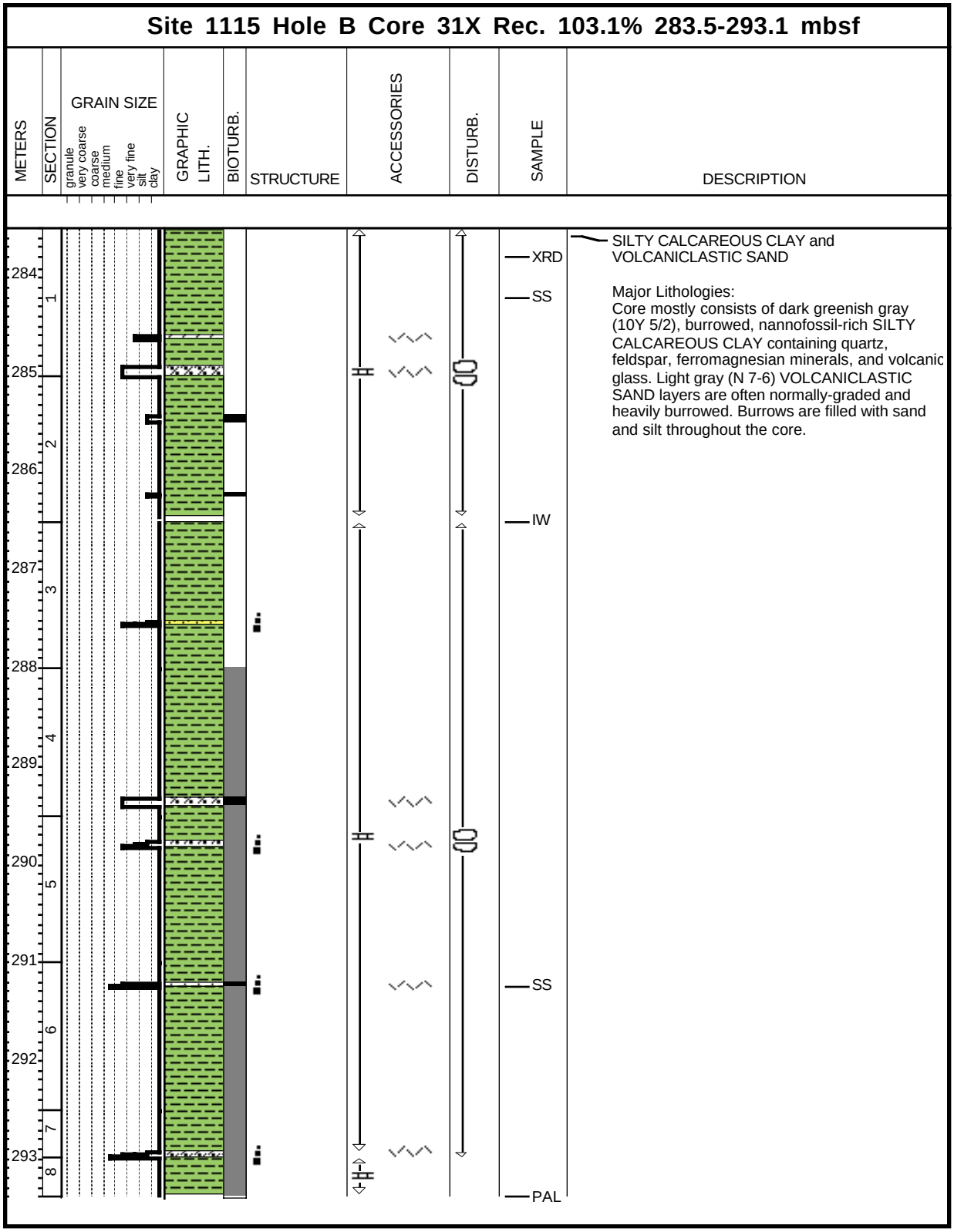
Core Photo


Site 1115 Hole B Core 29X Rec. 102.2% 264.3-273.9 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
265
266
267
268
269
270
271
272
273
274
1
2
3
4
5
6
7
8
SS
IW
XRD
PAL
SAND SILT CLAY, SILTY CLAY, VOLCANICLASTIC SAND, and VOLCANIC ASH
Major Lithologies:
Section 1, 0-40 cm, consists of SAND SILT CLAY with abundant detrital grains and common nannofossils. Section 1, 40 cm, to Core Catcher is SILTY CLAY with common nannofossils. VOLCANICLASTIC SAND layers occur at Section 2, 23-25 cm, Section 3, 12-14 cm, 47-49 cm, 106-110 cm, 115-115 cm, Section 4, 16.5-24 cm, 44-49 cm, Section 5, 58-59 cm, 86-92 cm, 120-123 cm, 145-147 cm, Section 6, 76-77 cm, 132-136 cm, Section 7, 29-30 cm, and CC, 11-15 cm, 28.5-32.5 cm. A thin VOLCANIC ASH layer occurs at Section 5, 59-59.5 cm. A wood fragment is present at Section 6, 103-104 cm.

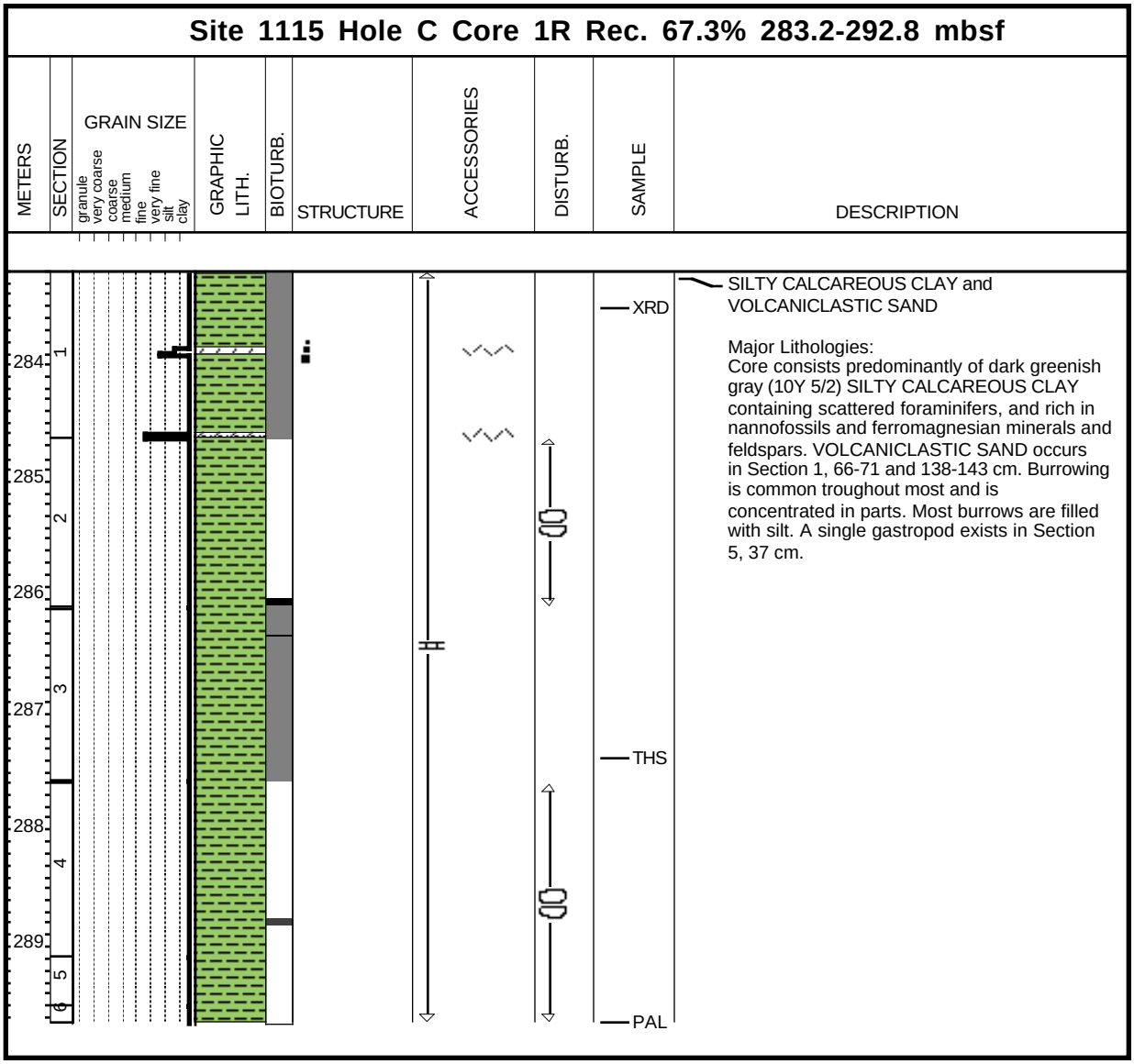
Core Photo


Site 1115 Hole B Core 30X Rec. 15.9% 273.9-283.5 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
274
275
1
2
IW
THS
PAL
SILTY CLAY/CLAYSTONE, VOLCANICLASTIC SAND, and VOLCANIC ASH
Major Lithologies:
Core is characterized by greenish gray (5GY 6/1) SILTY CLAY with common nannofossils. VOLCANICLASTIC SAND layers occur at Section 1, 9-12 cm, 31-37 cm and 92-93 cm. A thin, silty laminae of VOLCANIC ASH is present at 33 cm in Core Catcher.

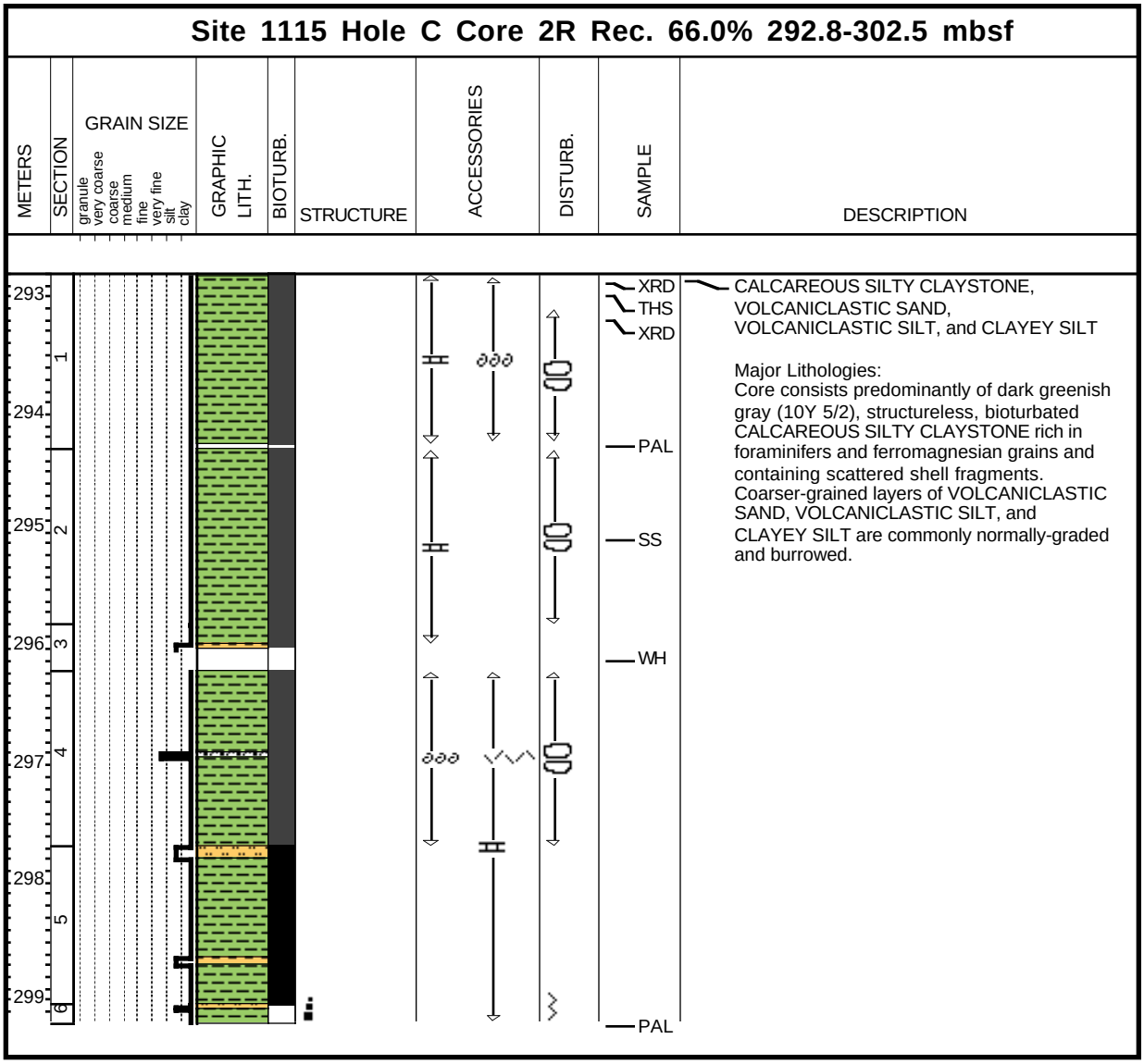
Core Photo


Site 1115 Hole B Core 31X Rec. 103.1% 283.5-293.1 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
284
285
286
287
288
289
290
291
292
293
1
2
3
4
5
6
7
8
XRD
SS
IW
SS
PAL
SILTY CALCAREOUS CLAY and VOLCANICLASTIC SAND
Major Lithologies:
Core mostly consists of dark greenish gray (10Y 5/2), burrowed, nannofossil-rich SILTY CALCAREOUS CLAY containing quartz, feldspar, ferromagnesian minerals, and volcanic glass. Light gray (N 7-6) VOLCANICLASTIC SAND layers are often normally-graded and heavily burrowed. Burrows are filled with sand and silt throughout the core.

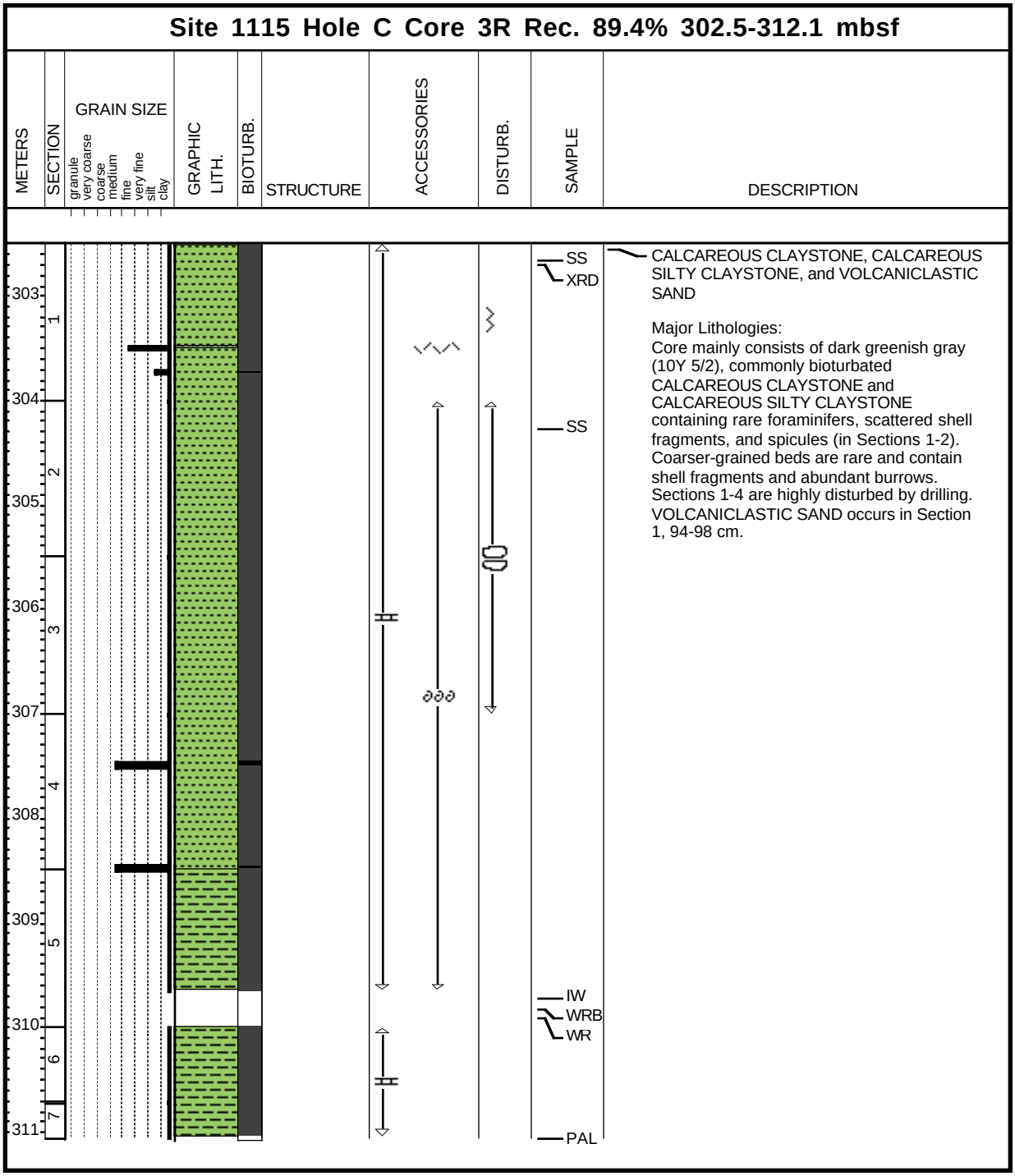
Core Photo


Site 1115 Hole C Core 1R Rec. 67.3% 283.2-292.8 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
284
285
286
287
288
289
1
2
3
4
5
6
XRD
THS
PAL
SILTY CALCAREOUS CLAY and VOLCANICLASTIC SAND
Major Lithologies:
Core consists predominantly of dark greenish gray (10Y 5/2) SILTY CALCAREOUS CLAY containing scattered foraminifers, and rich in nannofossils and ferromagnesian minerals and feldspars. VOLCANICLASTIC SAND occurs in Section 1, 66-71 and 138-143 cm. Burrowing is common troughout most and is concentrated in parts. Most burrows are filled with silt. A single gastropod exists in Section 5, 37 cm.

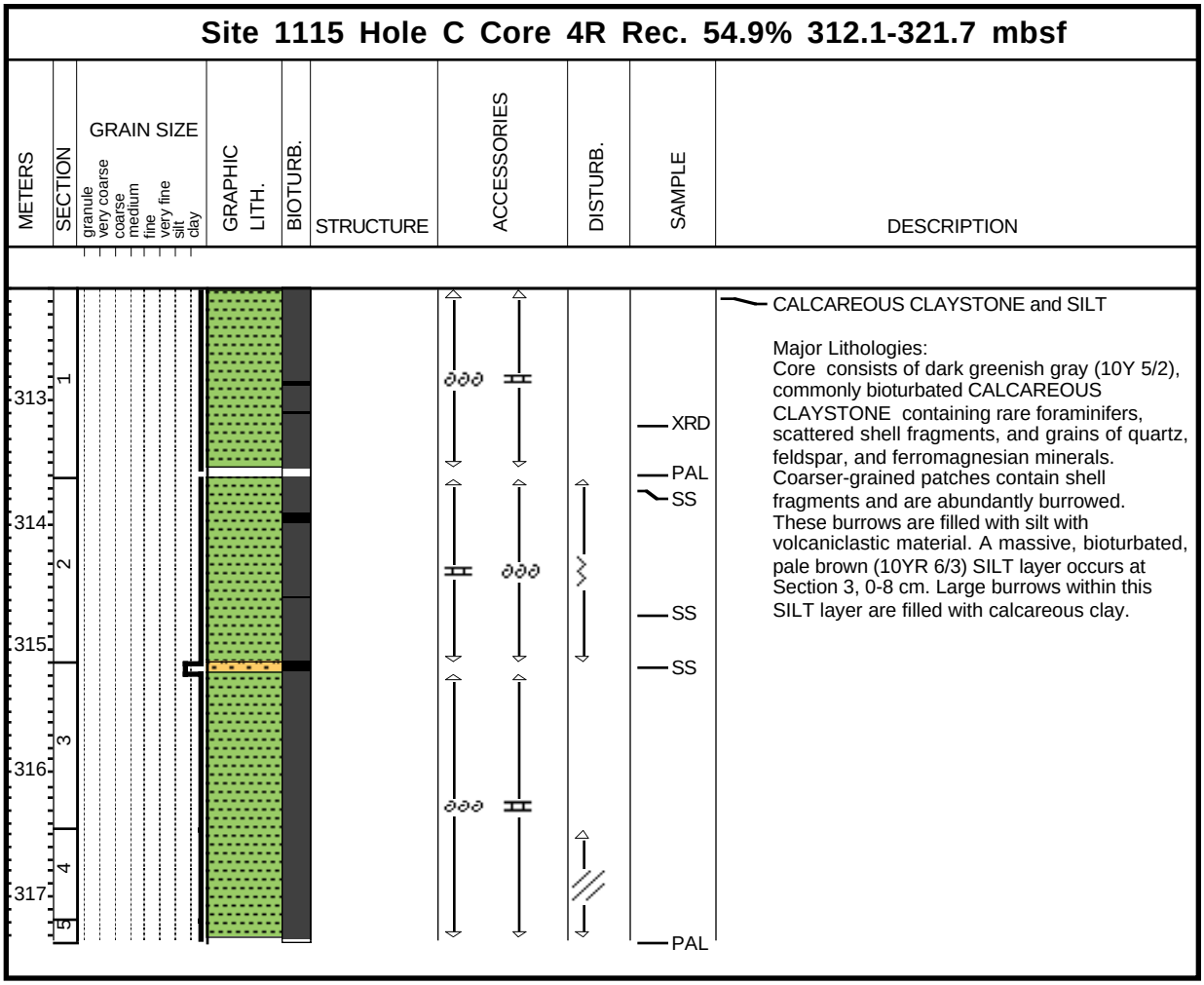
Core Photo


Site 1115 Hole C Core 2R Rec. 66.0% 292.8-302.5 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
293
294
295
296
297
298
299
1
2
3
4
5
6
XRD
THS
XRD
PAL
SS
WH
PAL
CALCAREOUS SILTY CLAYSTONE, VOLCANICLASTIC SAND, VOLCANICLASTIC SILT, and CLAYEY SILT
Major Lithologies:
Core consists predominantly of dark greenish gray (10Y 5/2), structureless, bioturbated CALCAREOUS SILTY CLAYSTONE rich in foraminifers and ferromagnesian grains and containing scattered shell fragments. Coarser-grained layers of VOLCANICLASTIC SAND, VOLCANICLASTIC SILT, and CLAYEY SILT are commonly normally-graded and burrowed.

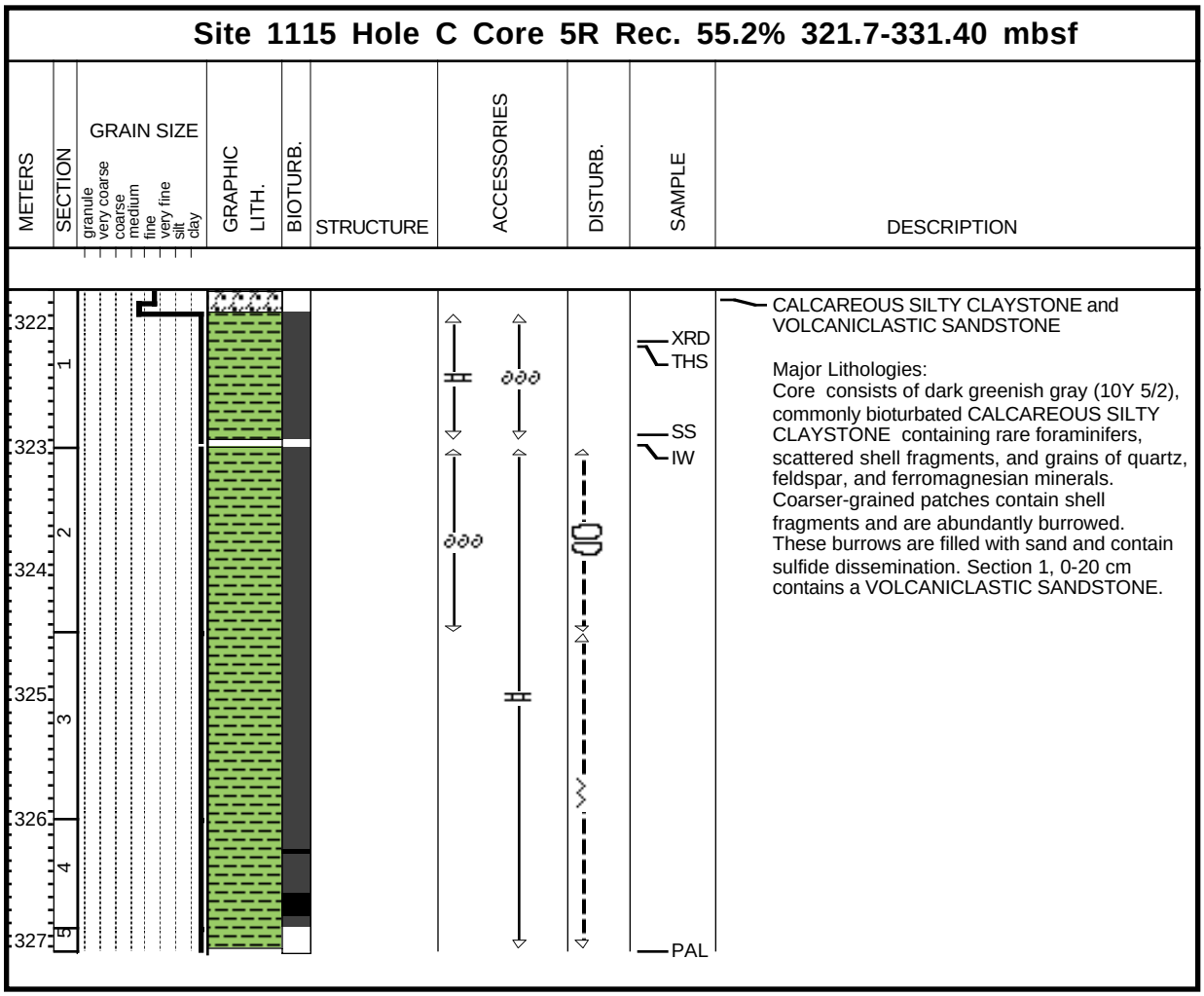
Core Photo


Site 1115 Hole C Core 3R Rec. 89.4% 302.5-312.1 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
303
304
305
306
307
308
309
310
311
1
2
3
4
5
6
7
SS
XRD
SS
IW
WRB
WR
PAL
CALCAREOUS CLAYSTONE, CALCAREOUS SILTY CLAYSTONE, and VOLCANICLASTIC SAND
Major Lithologies:
Core mainly consists of dark greenish gray (10Y 5/2), commonly bioturbated CALCAREOUS CLAYSTONE and CALCAREOUS SILTY CLAYSTONE containing rare foraminifers, scattered shell fragments, and spicules (in Sections 1-2). Coarser-grained beds are rare and contain shell fragments and abundant burrows. Sections 1-4 are highly disturbed by drilling. VOLCANICLASTIC SAND occurs in Section 1, 94-98 cm.

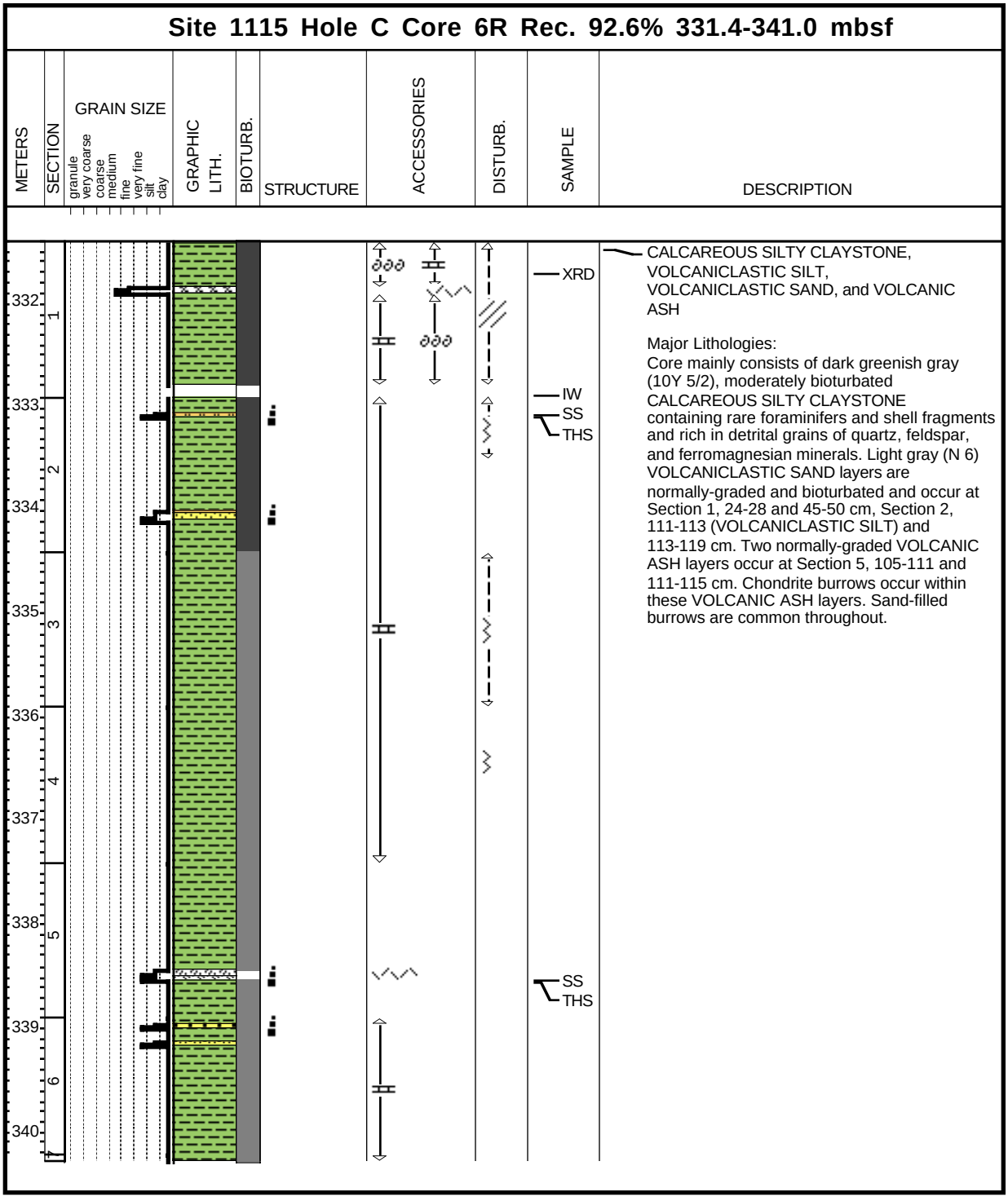
Core Photo


Site 1115 Hole C Core 4R Rec. 54.9% 312.1-321.7 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
313
314
315
316
317
1
2
3
4
5
XRD
PAL
SS
SS
SS
PAL
CALCAREOUS CLAYSTONE and SILT
Major Lithologies:
Core consists of dark greenish gray (10Y 5/2), commonly bioturbated CALCAREOUS CLAYSTONE containing rare foraminifers, scattered shell fragments, and grains of quartz, feldspar, and ferromagnesian minerals. Coarser-grained patches contain shell fragments and are abundantly burrowed. These burrows are filled with silt with volcaniclastic material. A massive, bioturbated, pale brown (10YR 6/3) SILT layer occurs at Section 3, 0-8 cm. Large burrows within this SILT layer are filled with calcareous clay.

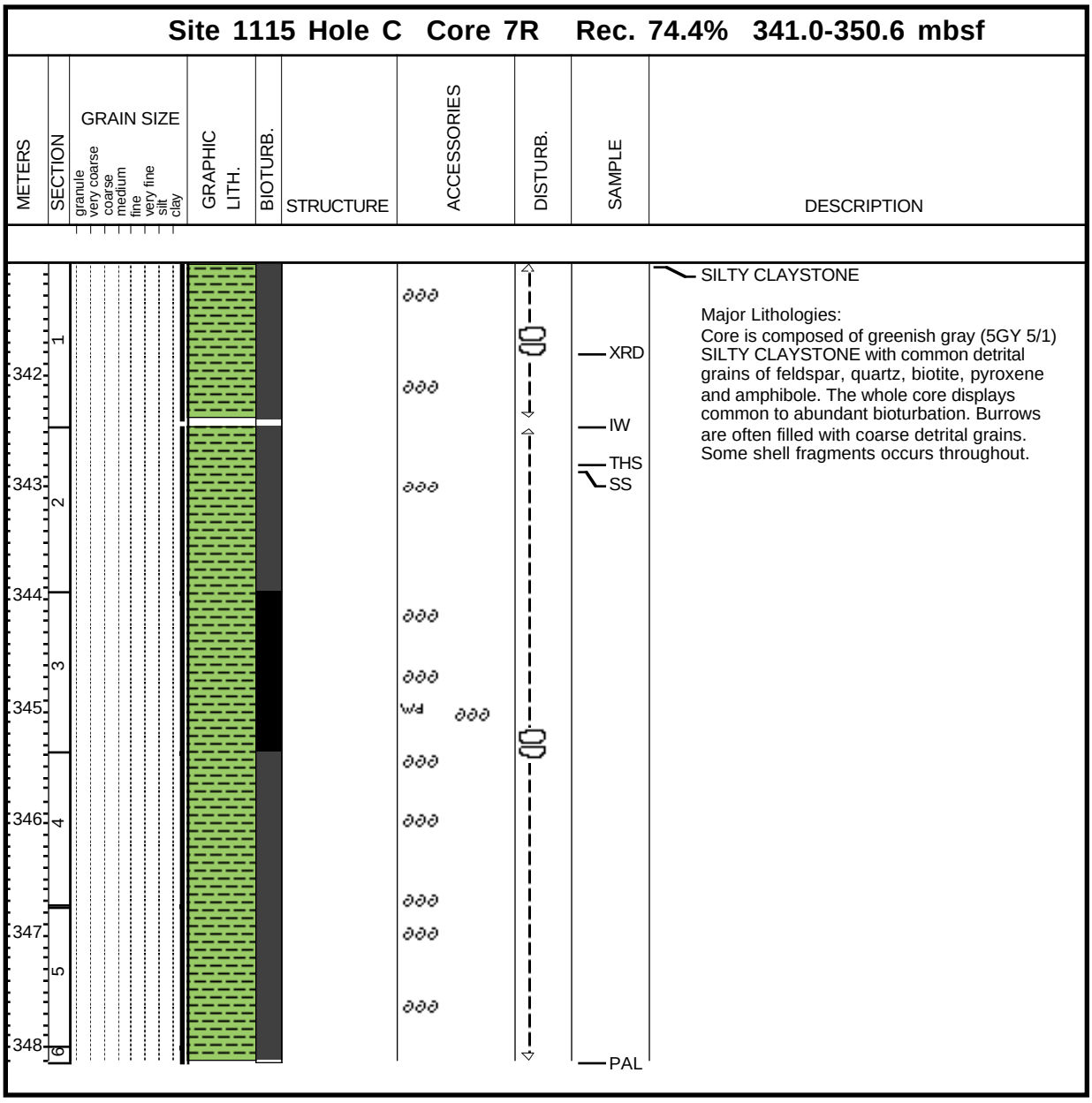
Core Photo


Site 1115 Hole C Core 5R Rec. 55.2% 321.7-331.40 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
322
323
324
325
326
327
1
2
3
4
5
XRD
THS
SS
IW
PAL
CALCAREOUS SILTY CLAYSTONE and VOLCANICLASTIC SANDSTONE
Major Lithologies:
Core consists of dark greenish gray (10Y 5/2), commonly bioturbated CALCAREOUS SILTY CLAYSTONE containing rare foraminifers, scattered shell fragments, and grains of quartz, feldspar, and ferromagnesian minerals. Coarser-grained patches contain shell fragments and are abundantly burrowed. These burrows are filled with sand and contain sulfide dissemination. Section 1, 0-20 cm contains a VOLCANICLASTIC SANDSTONE.

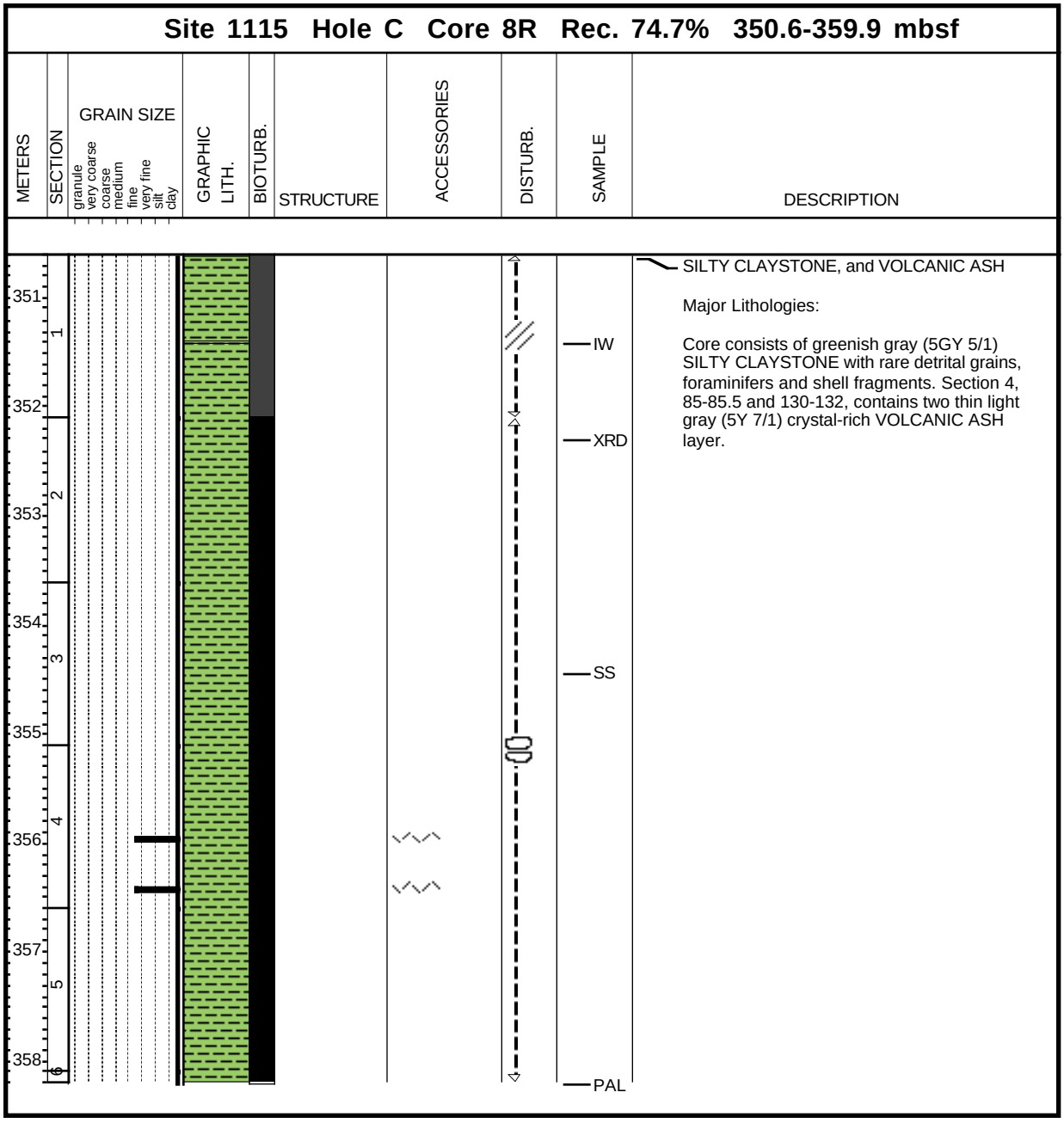
Core Photo


Site 1115 Hole C Core 6R Rec. 92.6% 331.4-341.0 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
332
333
334
335
336
337
338
339
340
1
2
3
4
5
6
7
XRD
IW
SS
THS
SS
THS
CALCAREOUS SILTY CLAYSTONE, VOLCANICLASTIC SILT, VOLCANICLASTIC SAND, and VOLCANIC ASH
Major Lithologies:
Core mainly consists of dark greenish gray (10Y 5/2), moderately bioturbated CALCAREOUS SILTY CLAYSTONE containing rare foraminifers and shell fragments and rich in detrital grains of quartz, feldspar, and ferromagnesian minerals. Light gray (N 6) VOLCANICLASTIC SAND layers are normally-graded and bioturbated and occur at Section 1, 24-28 and 45-50 cm, Section 2, 111-113 (VOLCANICLASTIC SILT) and 113-119 cm. Two normally-graded VOLCANIC ASH layers occur at Section 5, 105-111 and 111-115 cm. Chondrite burrows occur within these VOLCANIC ASH layers. Sand-filled burrows are common throughout.

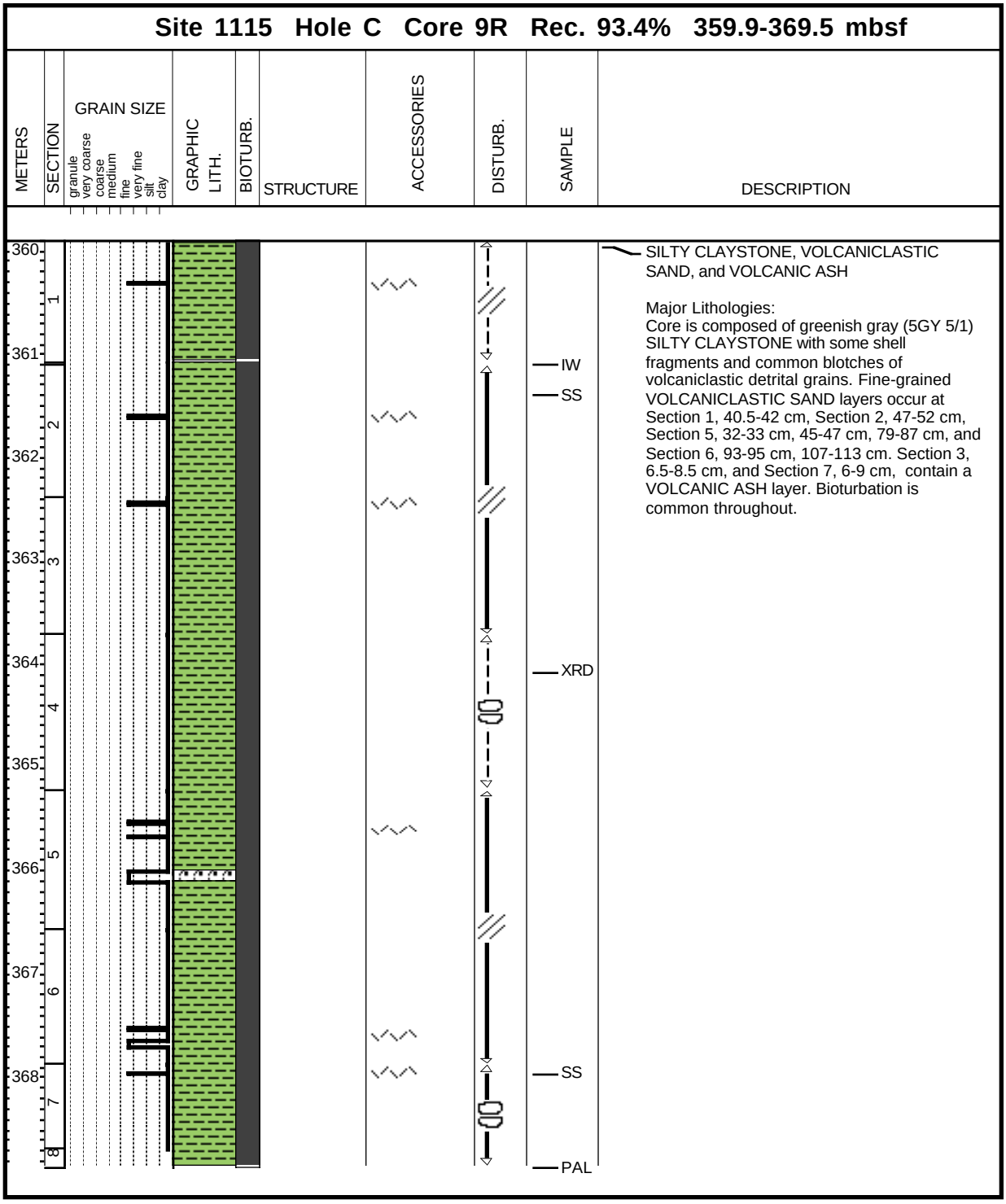
Core Photo


Site 1115 Hole C Core 7R Rec. 74.4% 341.0-350.6 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
342
343
344
345
346
347
348
1
2
3
4
5
6
wd
XRD
IW
THS
SS
PAL
SILTY CLAYSTONE
Major Lithologies:
Core is composed of greenish gray (5GY 5/1) SILTY CLAYSTONE with common detrital grains of feldspar, quartz, biotite, pyroxene and amphibole. The whole core displays common to abundant bioturbation. Burrows are often filled with coarse detrital grains. Some shell fragments occurs throughout.

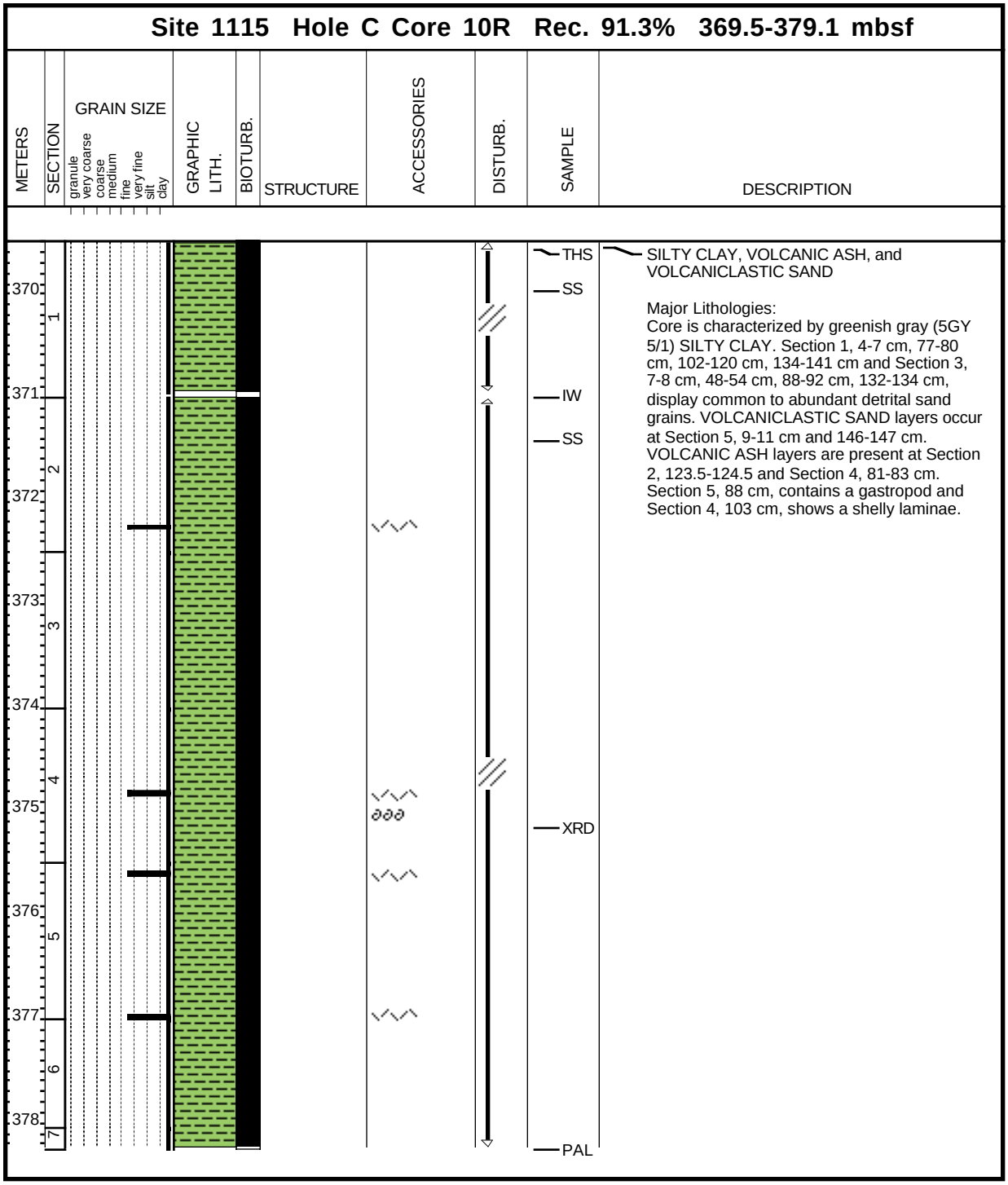
Core Photo


Site 1115 Hole C Core 8R Rec. 74.7% 350.6-359.9 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
351
352
353
354
355
356
357
358
1
2
3
4
5
6
IW
XRD
SS
PAL
SILTY CLAYSTONE, and VOLCANIC ASH
Major Lithologies:
Core consists of greenish gray (5GY 5/1) SILTY CLAYSTONE with rare detrital grains, foraminifers and shell fragments. Section 4, 85-85.5 and 130-132, contains two thin light gray (5Y 7/1) crystal-rich VOLCANIC ASH layer.

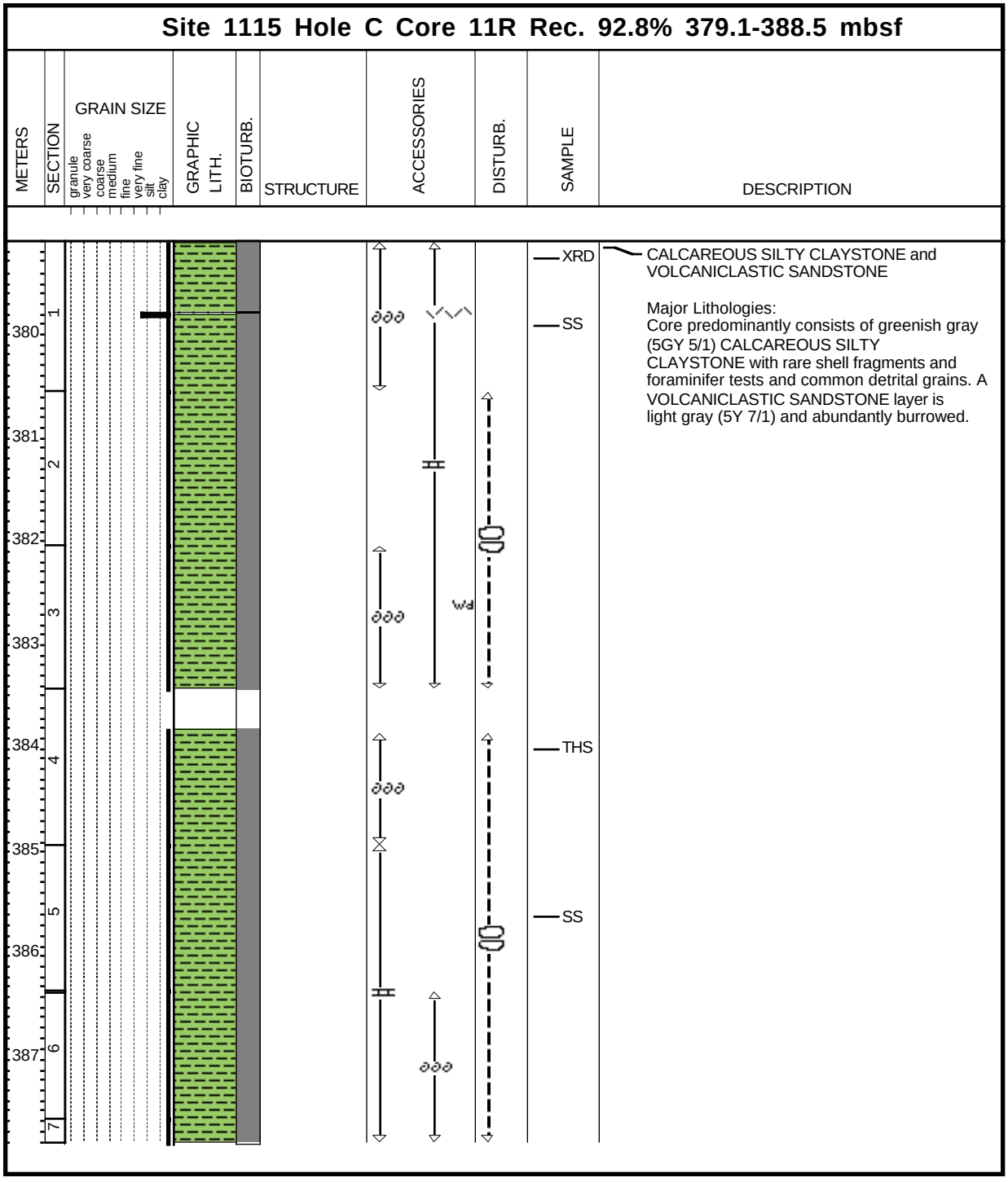
Core Photo


Site 1115 Hole C Core 9R Rec. 93.4% 359.9-369.5 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
360
361
362
363
364
365
366
367
368
1
2
3
4
5
6
7
8
IW
SS
XRD
SS
PAL
SILTY CLAYSTONE, VOLCANICLASTIC SAND, and VOLCANIC ASH
Major Lithologies:
Core is composed of greenish gray (5GY 5/1) SILTY CLAYSTONE with some shell fragments and common blotches of volcaniclastic detrital grains. Fine-grained VOLCANICLASTIC SAND layers occur at Section 1, 40.5-42 cm, Section 2, 47-52 cm, Section 5, 32-33 cm, 45-47 cm, 79-87 cm, and Section 6, 93-95 cm, 107-113 cm. Section 3, 6.5-8.5 cm, and Section 7, 6-9 cm, contain a VOLCANIC ASH layer. Bioturbation is common throughout.

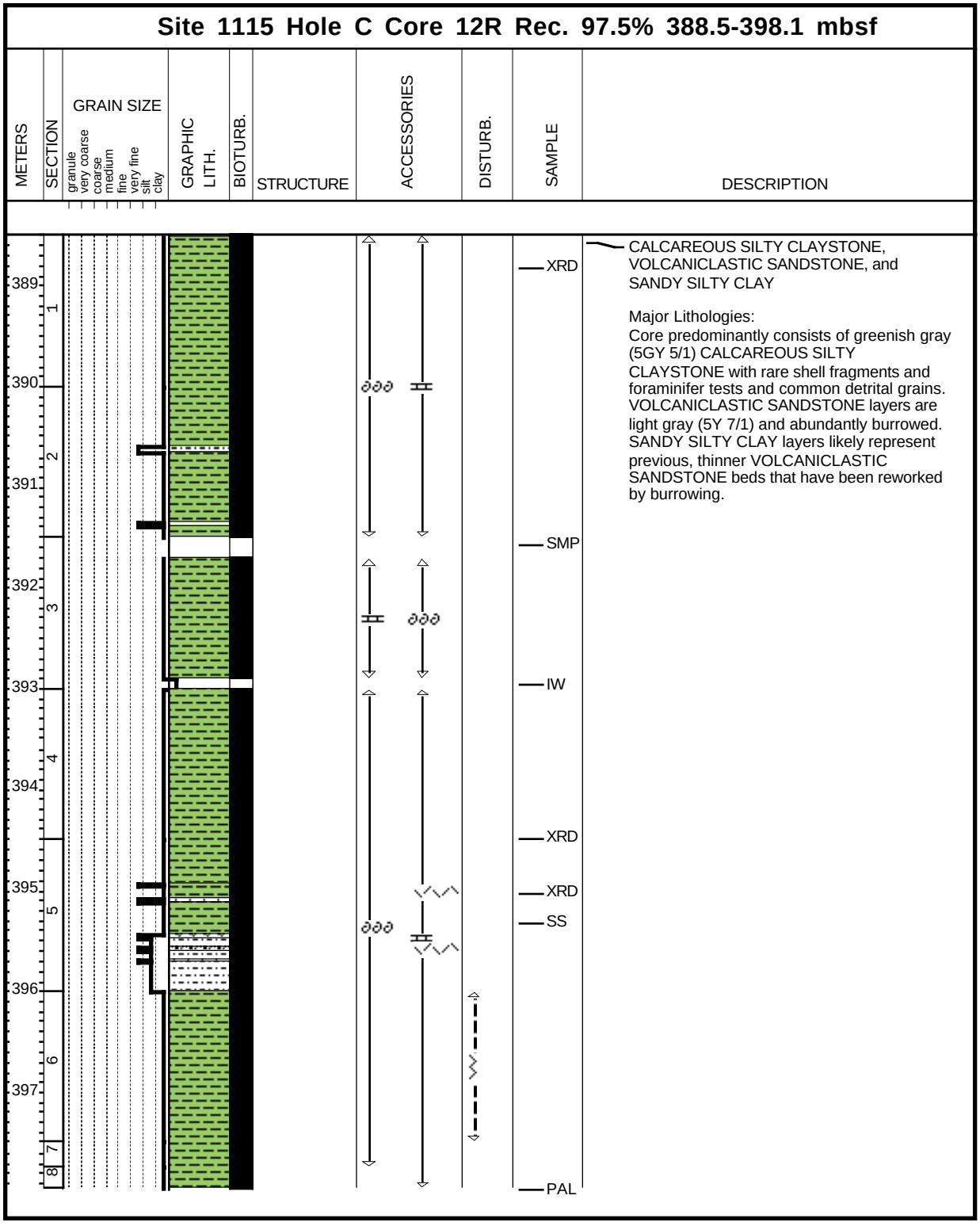
Core Photo


Site 1115 Hole C Core 10R Rec. 91.3% 369.5-379.1 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
370
371
372
373
374
375
376
377
378
1
2
3
4
5
6
7
THS
SS
IW
SS
XRD
PAL
SILTY CLAY, VOLCANIC ASH, and VOLCANICLASTIC SAND
Major Lithologies:
Core is characterized by greenish gray (5GY 5/1) SILTY CLAY. Section 1, 4-7 cm, 77-80 cm, 102-120 cm, 134-141 cm and Section 3, 7-8 cm, 48-54 cm, 88-92 cm, 132-134 cm, display common to abundant detrital sand grains. VOLCANICLASTIC SAND layers occur at Section 5, 9-11 cm and 146-147 cm. VOLCANIC ASH layers are present at Section 2, 123.5-124.5 and Section 4, 81-83 cm. Section 5, 88 cm, contains a gastropod and Section 4, 103 cm, shows a shelly laminae.

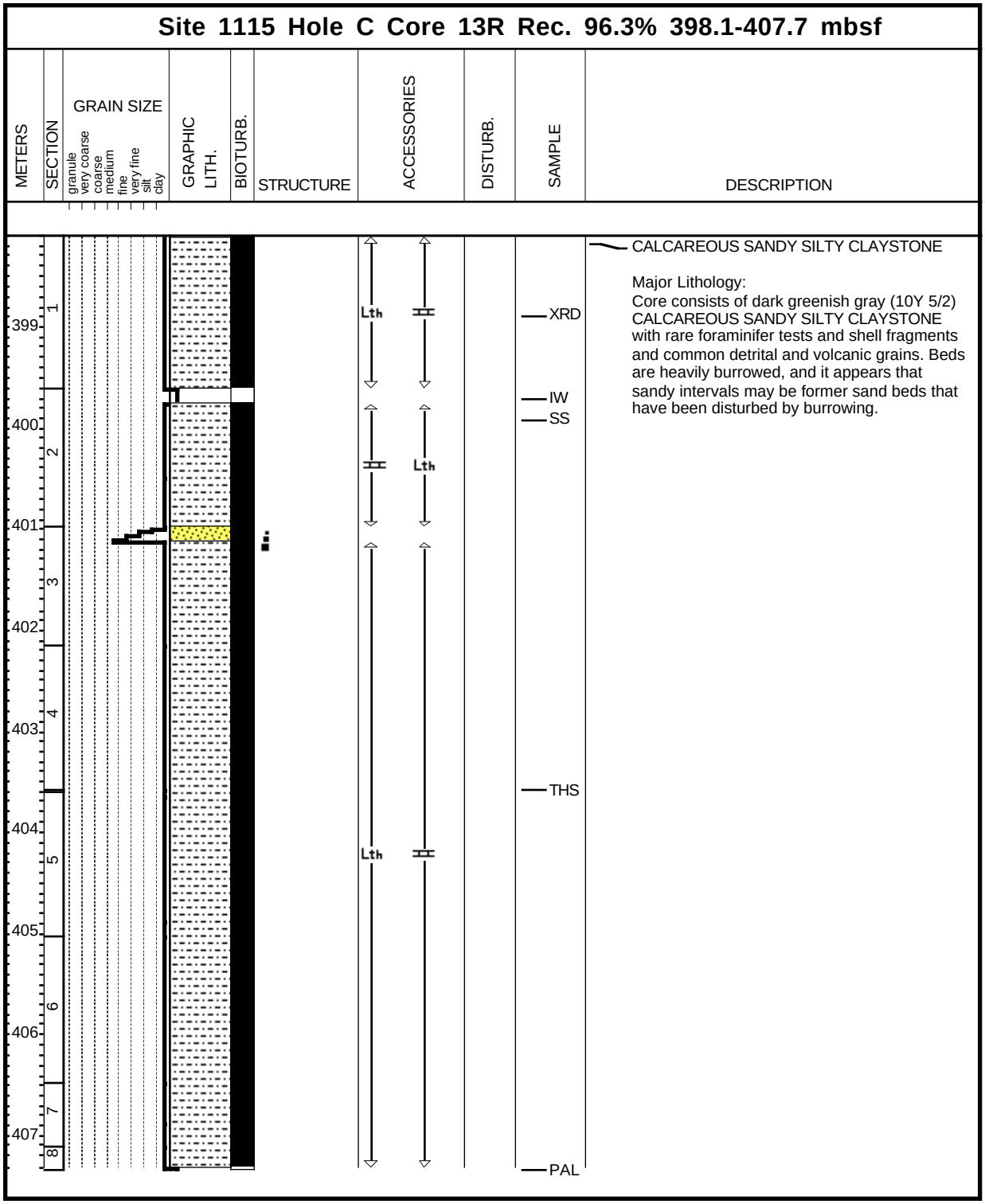
Core Photo


Site 1115 Hole C Core 11R Rec. 92.8% 379.1-388.5 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
380
381
382
383
384
385
386
387
1
2
3
4
5
6
7
XRD
SS
THS
SS
wd
CALCAREOUS SILTY CLAYSTONE and VOLCANICLASTIC SANDSTONE
Major Lithologies:
Core predominantly consists of greenish gray (5GY 5/1) CALCAREOUS SILTY CLAYSTONE with rare shell fragments and foraminifer tests and common detrital grains. A VOLCANICLASTIC SANDSTONE layer is light gray (5Y 7/1) and abundantly burrowed.

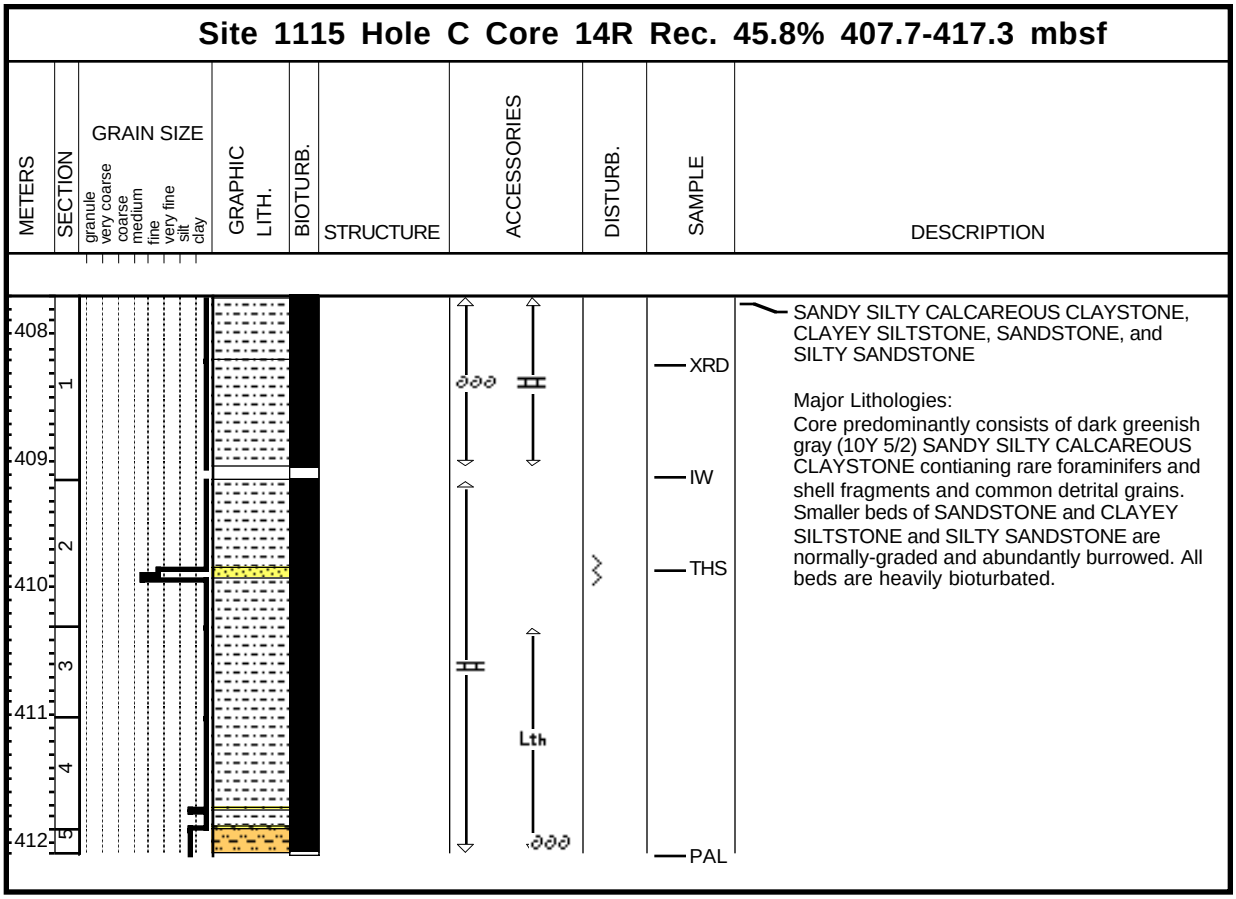
Core Photo


Site 1115 Hole C Core 12R Rec. 97.5% 388.5-398.1 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
389
390
391
392
393
394
395
396
397
1
2
3
4
5
6
7
8
XRD
SMP
IW
XRD
XRD
SS
PAL
CALCAREOUS SILTY CLAYSTONE, VOLCANICLASTIC SANDSTONE, and SANDY SILTY CLAY
Major Lithologies:
Core predominantly consists of greenish gray (5GY 5/1) CALCAREOUS SILTY CLAYSTONE with rare shell fragments and foraminifer tests and common detrital grains. VOLCANICLASTIC SANDSTONE layers are light gray (5Y 7/1) and abundantly burrowed. SANDY SILTY CLAY layers likely represent previous, thinner VOLCANICLASTIC SANDSTONE beds that have been reworked by burrowing.

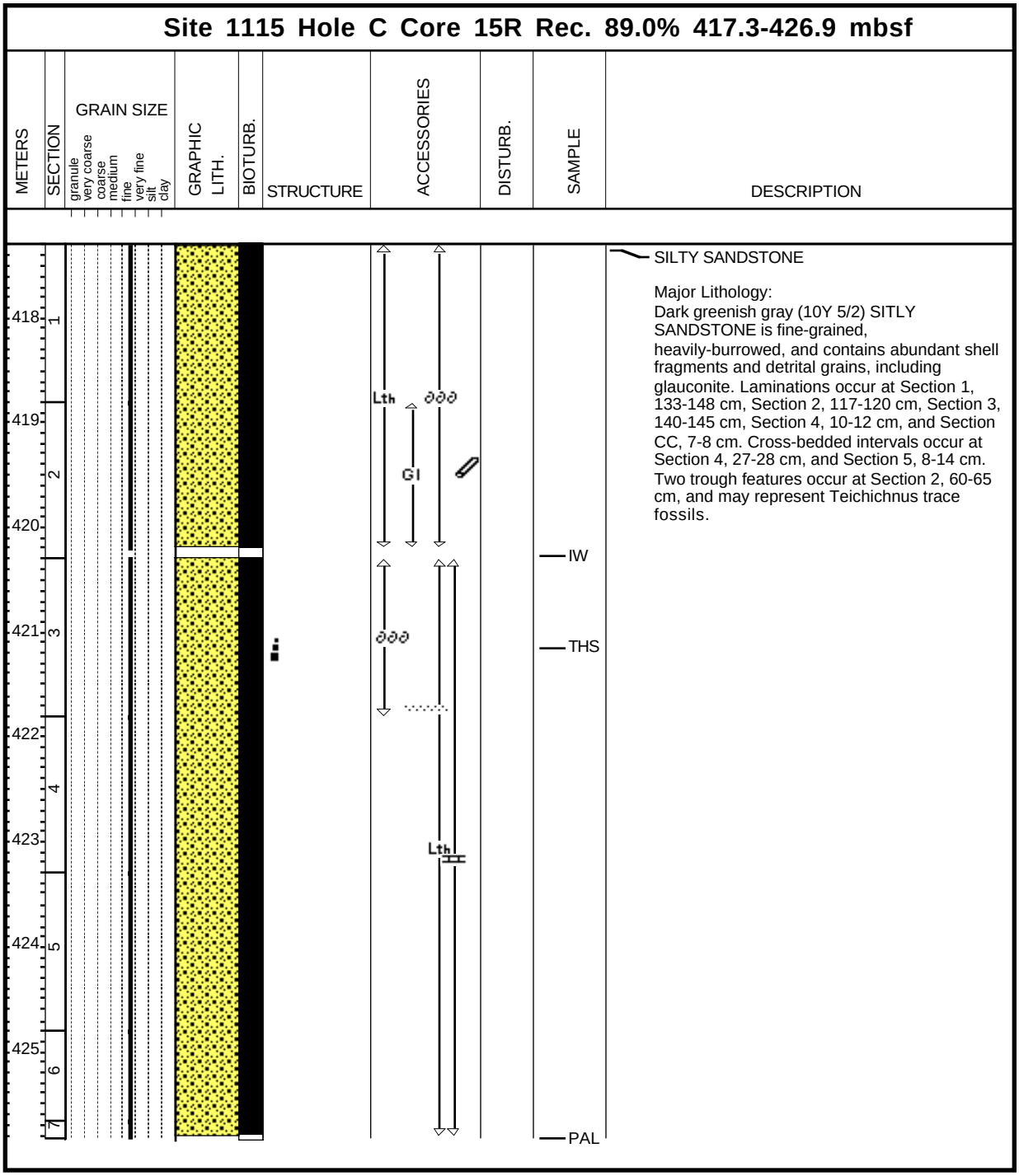
Core Photo


Site 1115 Hole C Core 13R Rec. 96.3% 398.1-407.7 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
399
400
401
402
403
404
405
406
407
1
2
3
4
5
6
7
8
Lth
Lth
Lth
XRD
IW
SS
THS
PAL
CALCAREOUS SANDY SILTY CLAYSTONE
Major Lithology:
Core consists of dark greenish gray (10Y 5/2) CALCAREOUS SANDY SILTY CLAYSTONE with rare foraminifer tests and shell fragments and common detrital and volcanic grains. Beds are heavily burrowed, and it appears that sandy intervals may be former sand beds that have been disturbed by burrowing.

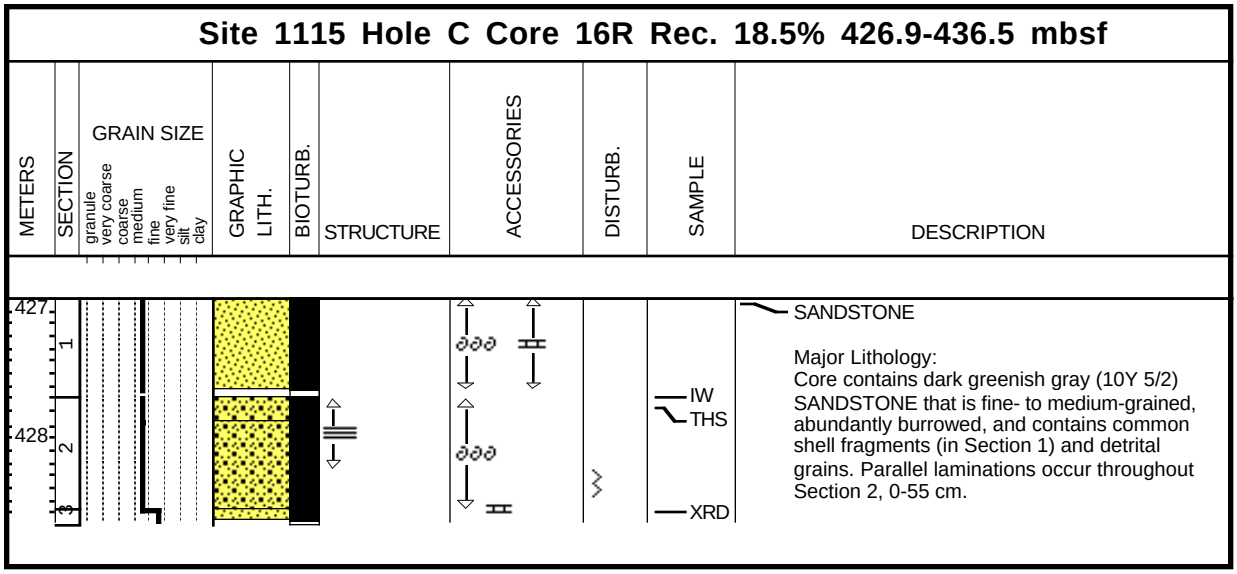
Core Photo


Site 1115 Hole C Core 14R Rec. 45.8% 407.7-417.3 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
408
409
410
411
412
1
2
3
4
5
Lth
XRD
IW
THS
PAL
SANDY SILTY CALCAREOUS CLAYSTONE, CLAYEY SILTSTONE, SANDSTONE, and SILTY SANDSTONE
Major Lithologies:
Core predominantly consists of dark greenish gray (10Y 5/2) SANDY SILTY CALCAREOUS CLAYSTONE contianing rare foraminifers and shell fragments and common detrital grains. Smaller beds of SANDSTONE and CLAYEY SILTSTONE and SILTY SANDSTONE are normally-graded and abundantly burrowed. All beds are heavily bioturbated.

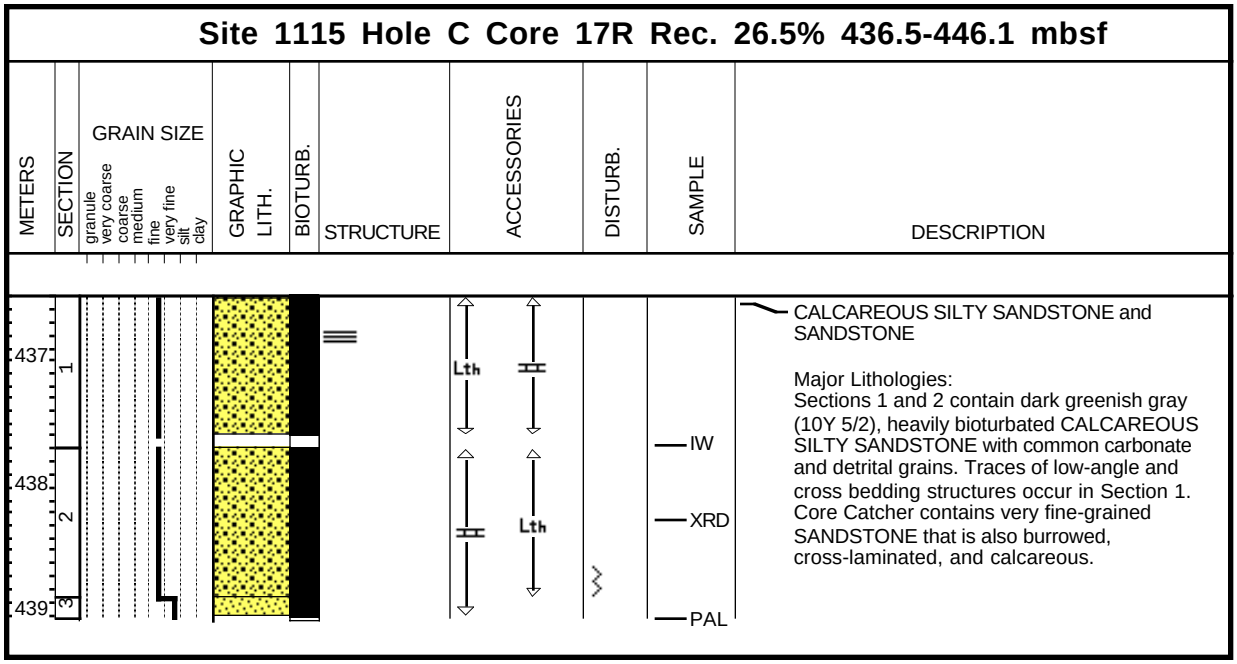
Core Photo


Site 1115 Hole C Core 15R Rec. 89.0% 417.3-426.9 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
418
419
420
421
422
423
424
425
1
2
3
4
5
6
7
Lth
Gl
IW
THS
PAL
SILTY SANDSTONE
Major Lithology:
Dark greenish gray (10Y 5/2) SITLY SANDSTONE is fine-grained, heavily-burrowed, and contains abundant shell fragments and detrital grains, including glauconite. Laminations occur at Section 1, 133-148 cm, Section 2, 117-120 cm, Section 3, 140-145 cm, Section 4, 10-12 cm, and Section CC, 7-8 cm. Cross-bedded intervals occur at Section 4, 27-28 cm, and Section 5, 8-14 cm. Two trough features occur at Section 2, 60-65 cm, and may represent Teichichnus trace fossils.

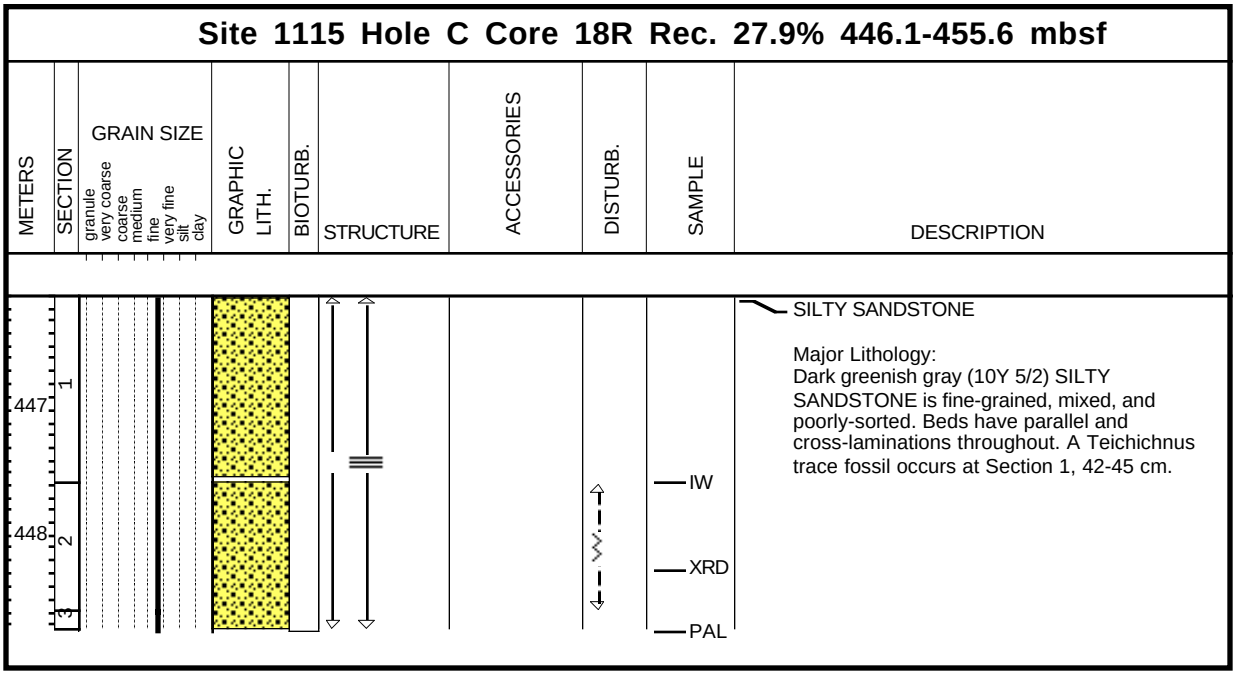
Core Photo


Site 1115 Hole C Core 16R Rec. 18.5% 426.9-436.5 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
427
428
1
2
3
IW
THS
XRD
SANDSTONE
Major Lithology:
Core contains dark greenish gray (10Y 5/2) SANDSTONE that is fine- to medium-grained, abundantly burrowed, and contains common shell fragments (in Section 1) and detrital grains. Parallel laminations occur throughout Section 2, 0-55 cm.

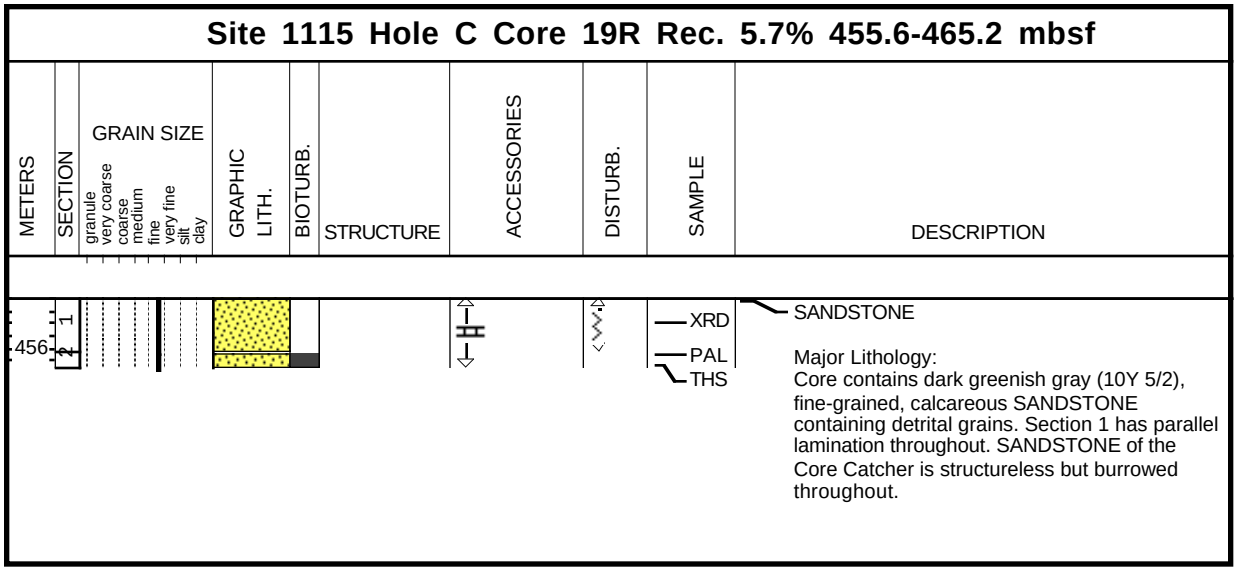
Core Photo


Site 1115 Hole C Core 17R Rec. 26.5% 436.5-446.1 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
437
438
439
1
2
3
Lth
Lth
IW
XRD
PAL
CALCAREOUS SILTY SANDSTONE and SANDSTONE
Major Lithologies:
Sections 1 and 2 contain dark greenish gray (10Y 5/2), heavily bioturbated CALCAREOUS SILTY SANDSTONE with common carbonate and detrital grains. Traces of low-angle and cross bedding structures occur in Section 1. Core Catcher contains very fine-grained SANDSTONE that is also burrowed, cross-laminated, and calcareous.

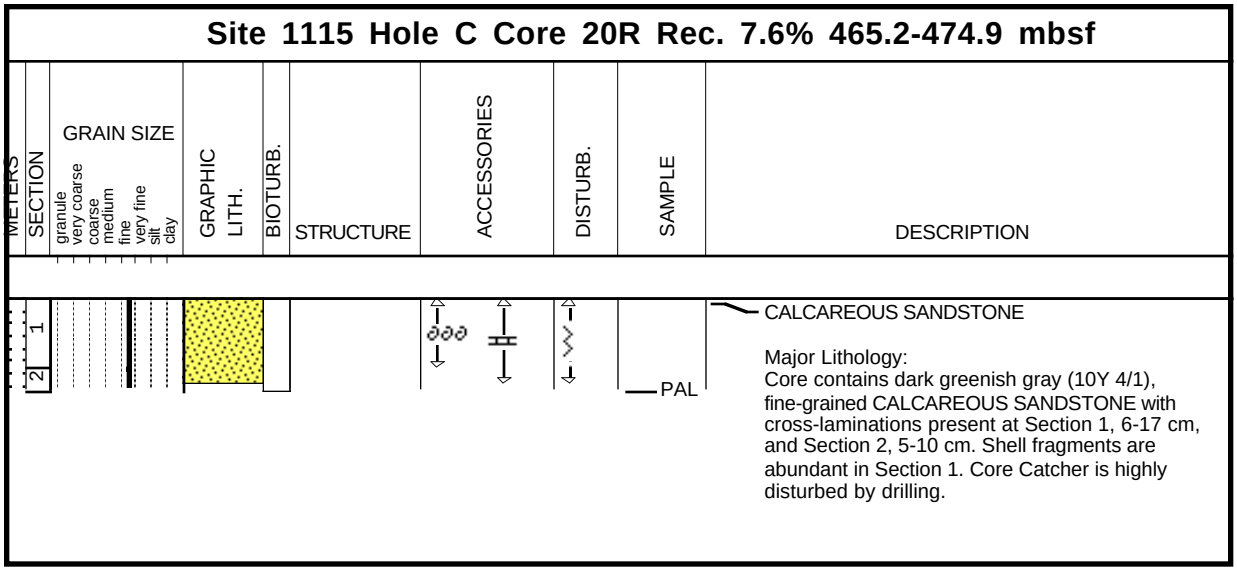
Core Photo


Site 1115 Hole C Core 18R Rec. 27.9% 446.1-455.6 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
447
448
1
2
3
IW
XRD
PAL
SILTY SANDSTONE
Major Lithology:
Dark greenish gray (10Y 5/2) SILTY SANDSTONE is fine-grained, mixed, and poorly-sorted. Beds have parallel and cross-laminations throughout. A Teichichnus trace fossil occurs at Section 1, 42-45 cm.

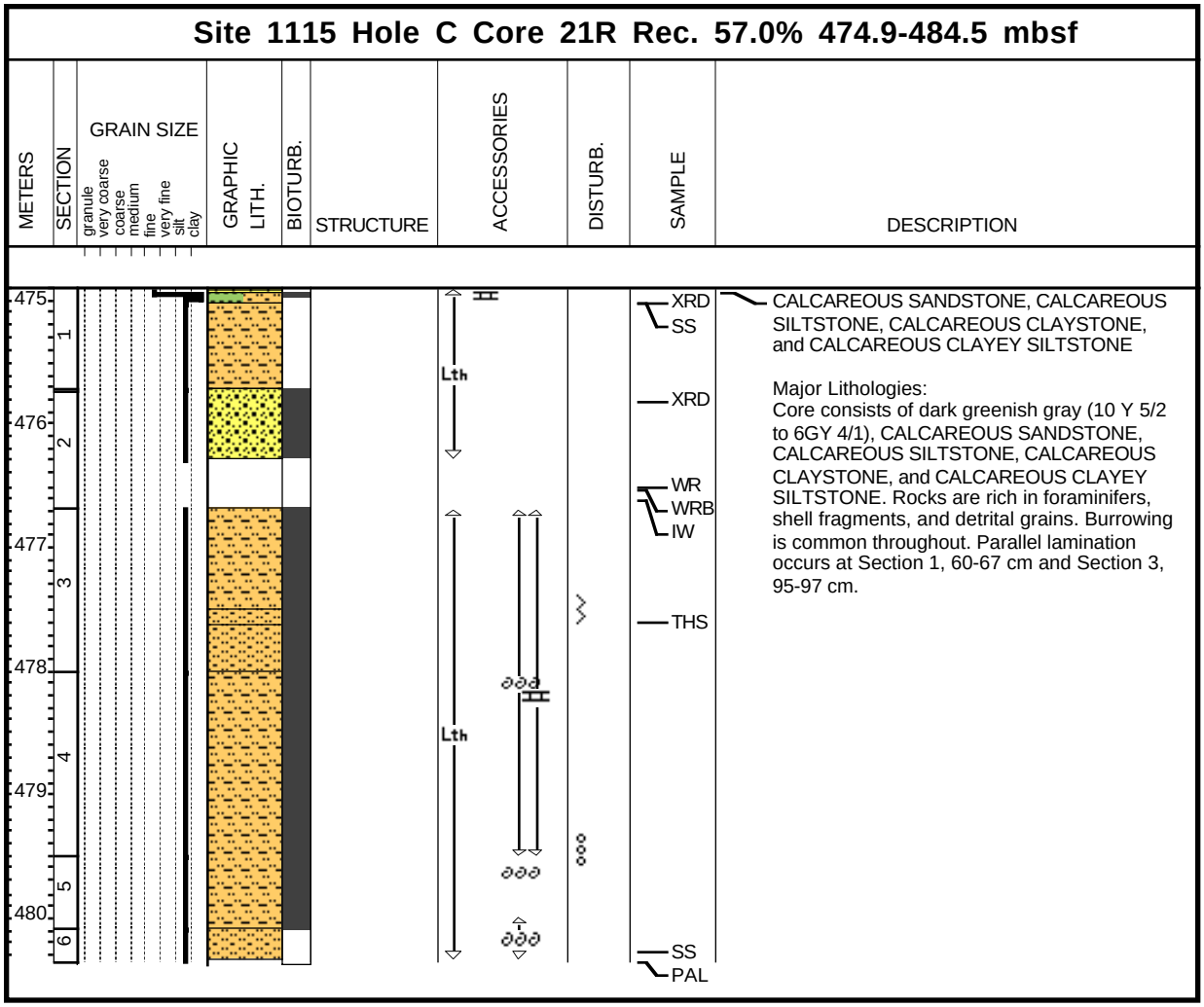
Core Photo


Site 1115 Hole C Core 19R Rec. 5.7% 455.6-465.2 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
456
1
XRD
PAL
THS
SANDSTONE
Major Lithology:
Core contains dark greenish gray (10Y 5/2), fine-grained, calcareous SANDSTONE containing detrital grains. Section 1 has parallel lamination throughout. SANDSTONE of the Core Catcher is structureless but burrowed throughout.

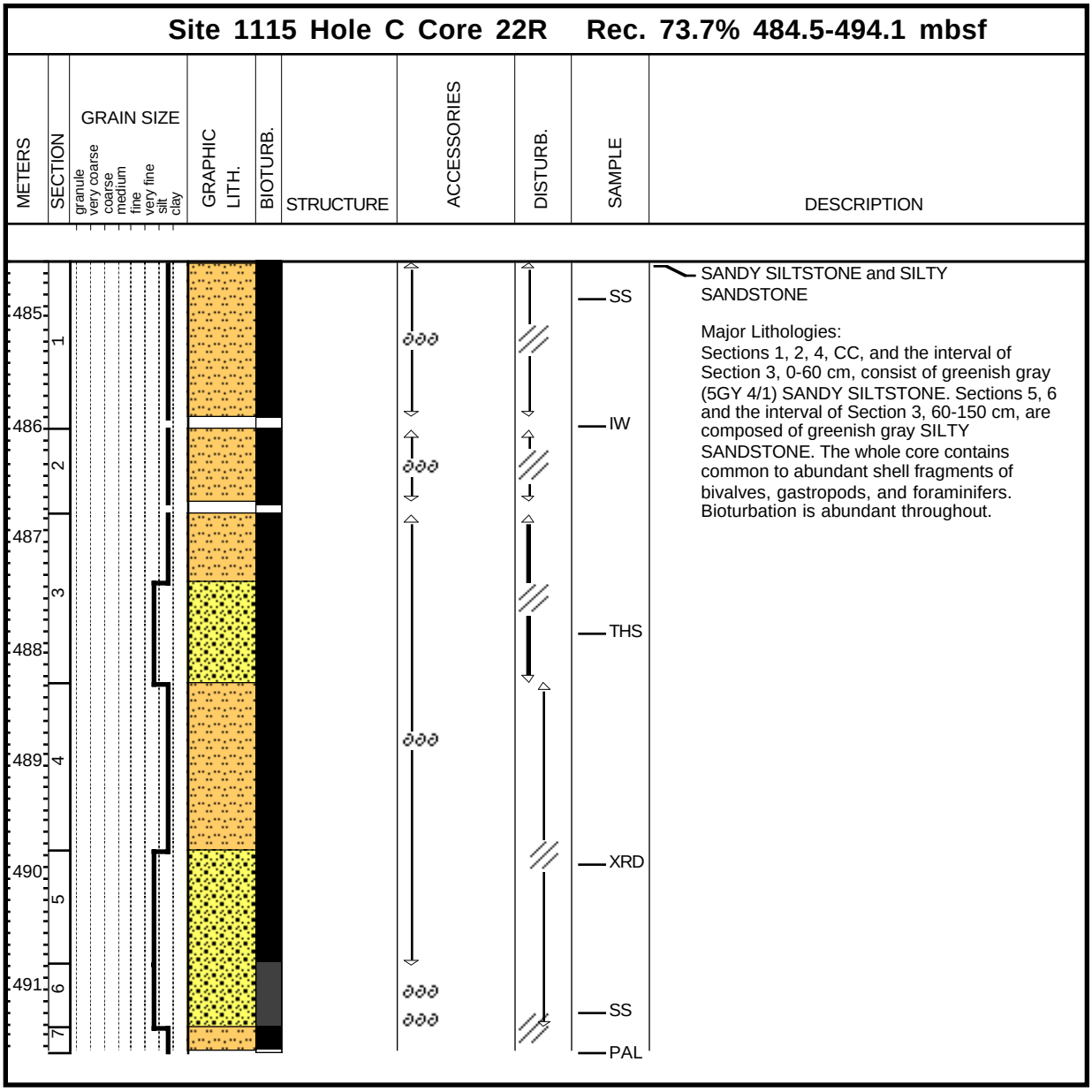
Core Photo


Site 1115 Hole C Core 20R Rec. 7.6% 465.2-474.9 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
1
2
PAL
CALCAREOUS SANDSTONE
Major Lithology:
Core contains dark greenish gray (10Y 4/1), fine-grained CALCAREOUS SANDSTONE with cross-laminations present at Section 1, 6-17 cm, and Section 2, 5-10 cm. Shell fragments are abundant in Section 1. Core Catcher is highly disturbed by drilling.

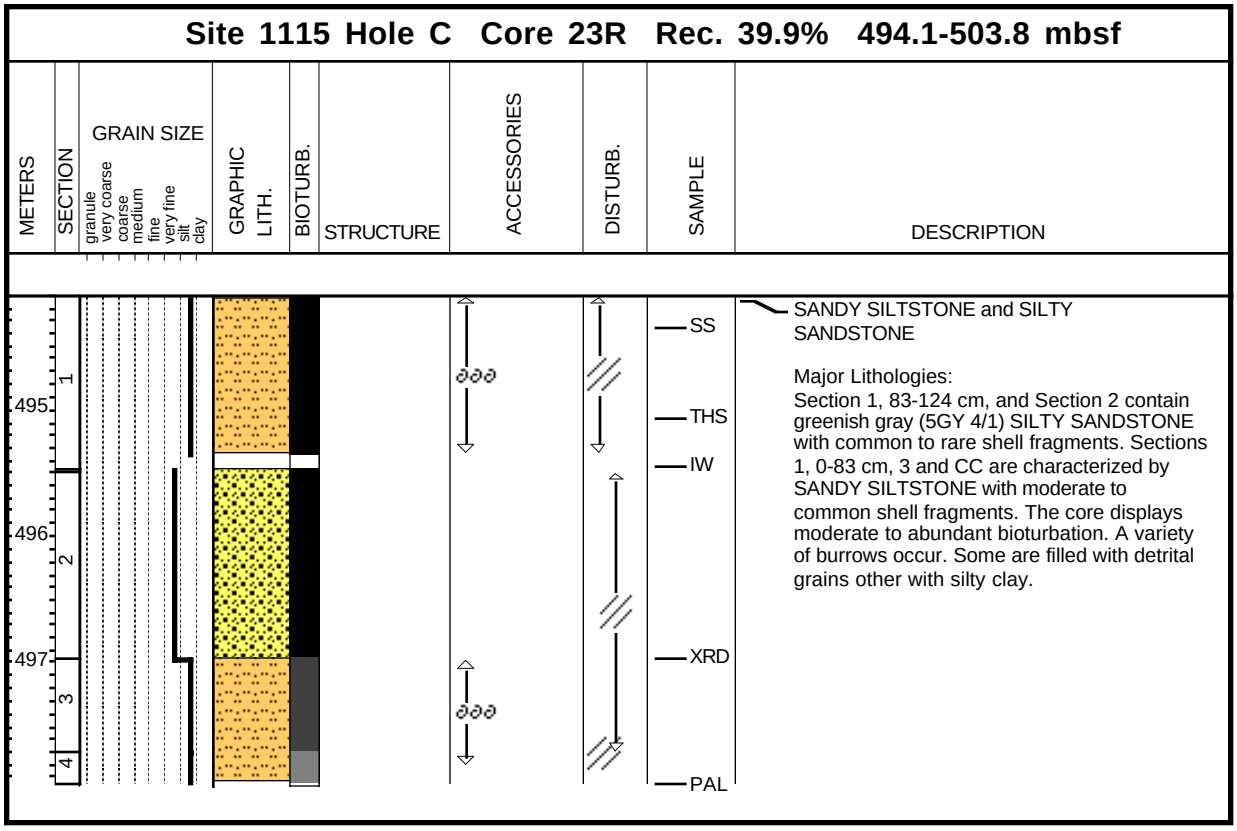
Core Photo


Site 1115 Hole C Core 21R Rec. 57.0% 474.9-484.5 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
475
476
477
478
479
480
1
2
3
4
5
6
Lth
Lth
XRD
SS
XRD
WR
WRB
IW
THS
SS
PAL
CALCAREOUS SANDSTONE, CALCAREOUS SILTSTONE, CALCAREOUS CLAYSTONE, and CALCAREOUS CLAYEY SILTSTONE
Major Lithologies:
Core consists of dark greenish gray (10 Y 5/2 to 6GY 4/1), CALCAREOUS SANDSTONE, CALCAREOUS SILTSTONE, CALCAREOUS CLAYSTONE, and CALCAREOUS CLAYEY SILTSTONE. Rocks are rich in foraminifers, shell fragments, and detrital grains. Burrowing is common throughout. Parallel lamination occurs at Section 1, 60-67 cm and Section 3, 95-97 cm.

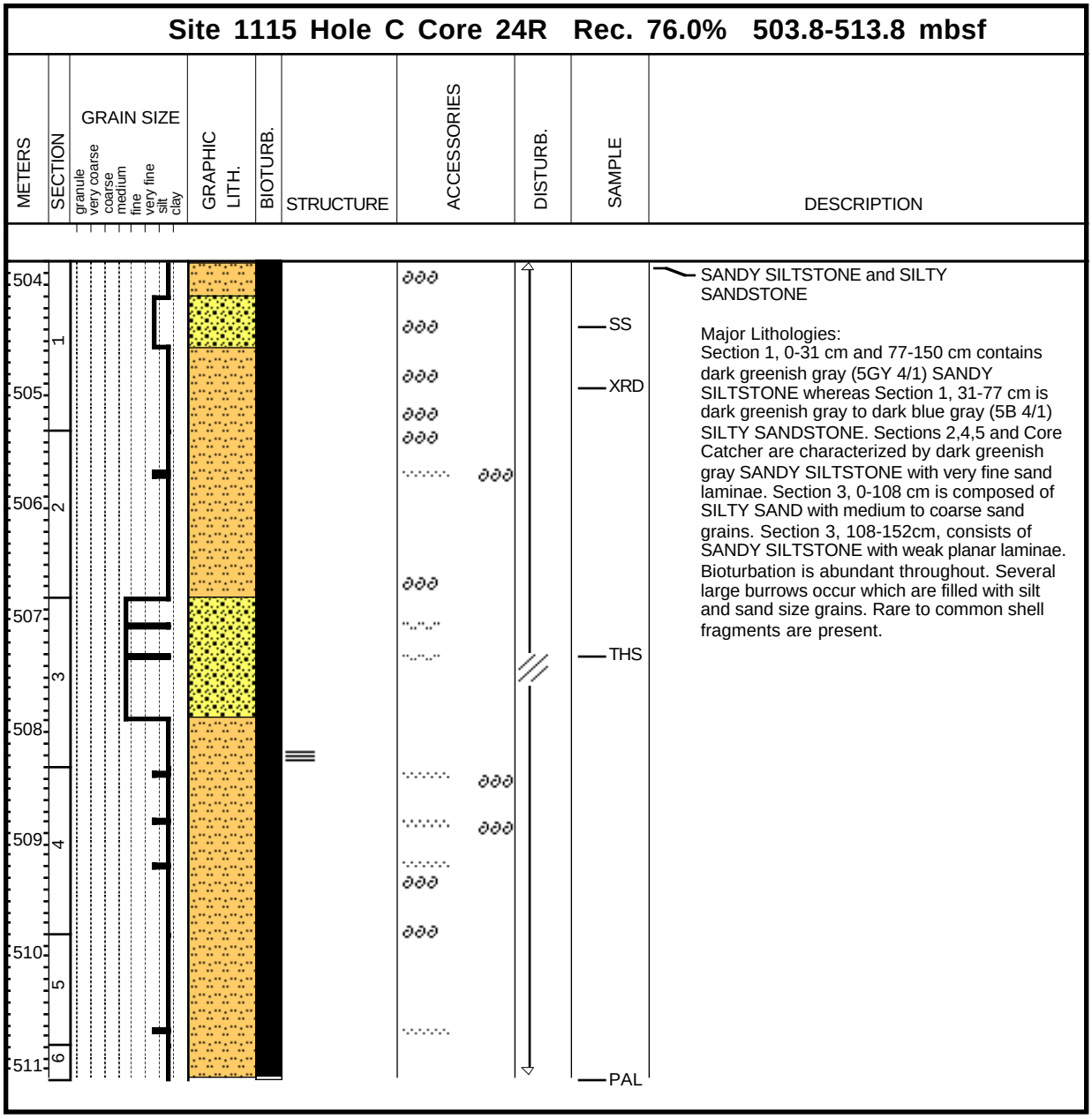
Core Photo


Site 1115 Hole C Core 22R Rec. 73.7% 484.5-494.1 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
485
486
487
488
489
490
491
1
2
3
4
5
6
7
SS
IW
THS
XRD
SS
PAL
SANDY SILTSTONE and SILTY SANDSTONE
Major Lithologies:
Sections 1, 2, 4, CC, and the interval of Section 3, 0-60 cm, consist of greenish gray (5GY 4/1) SANDY SILTSTONE. Sections 5, 6 and the interval of Section 3, 60-150 cm, are composed of greenish gray SILTY SANDSTONE. The whole core contains common to abundant shell fragments of bivalves, gastropods, and foraminifers. Bioturbation is abundant throughout.

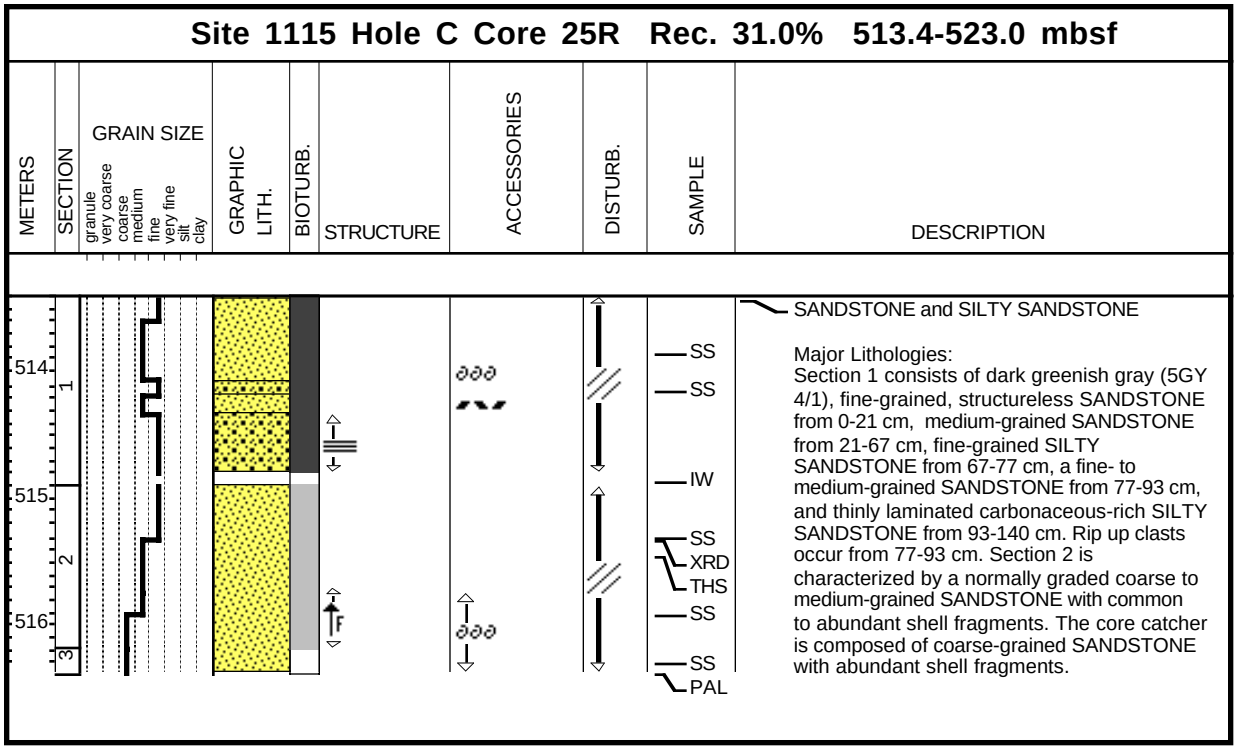
Core Photo


Site 1115 Hole C Core 23R Rec. 39.9% 494.1-503.8 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
495
496
497
1
2
3
4
SS
THS
IW
XRD
PAL
SANDY SILTSTONE and SILTY SANDSTONE
Major Lithologies:
Section 1, 83-124 cm, and Section 2 contain greenish gray (5GY 4/1) SILTY SANDSTONE with common to rare shell fragments. Sections 1, 0-83 cm, 3 and CC are characterized by SANDY SILTSTONE with moderate to common shell fragments. The core displays moderate to abundant bioturbation. A variety of burrows occur. Some are filled with detrital grains other with silty clay.

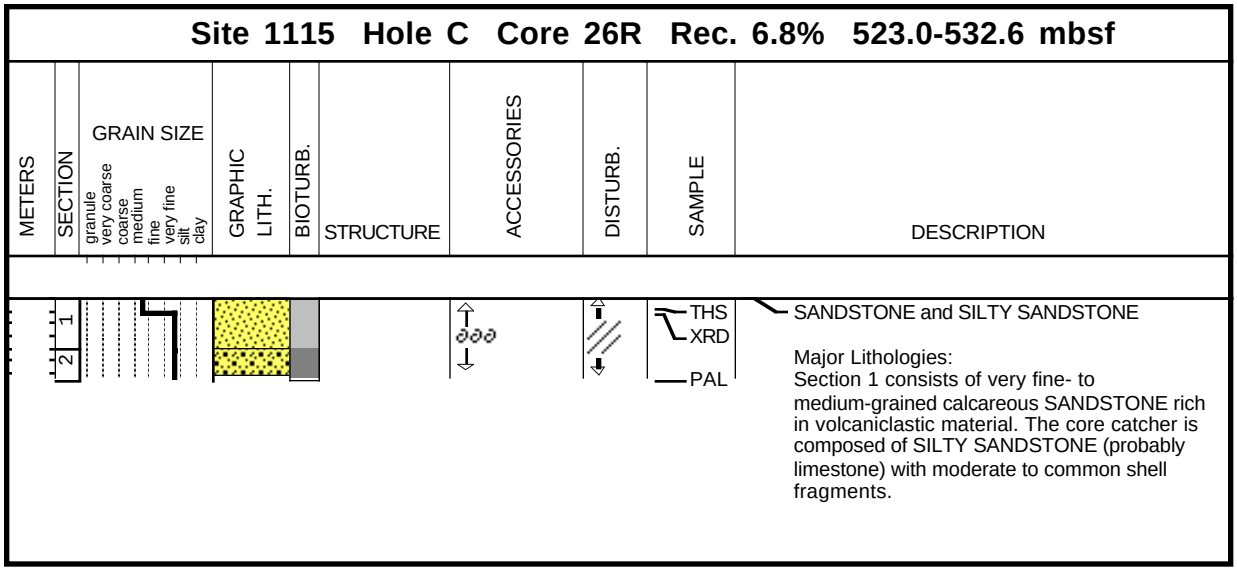
Core Photo


Site 1115 Hole C Core 24R Rec. 76.0% 503.8-513.8 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
504
505
506
507
508
509
510
511
1
2
3
4
5
6
SS
XRD
THS
PAL
SANDY SILTSTONE and SILTY SANDSTONE
Major Lithologies:
Section 1, 0-31 cm and 77-150 cm contains dark greenish gray (5GY 4/1) SANDY SILTSTONE whereas Section 1, 31-77 cm is dark greenish gray to dark blue gray (5B 4/1) SILTY SANDSTONE. Sections 2,4,5 and Core Catcher are characterized by dark greenish gray SANDY SILTSTONE with very fine sand laminae. Section 3, 0-108 cm is composed of SILTY SAND with medium to coarse sand grains. Section 3, 108-152cm, consists of SANDY SILTSTONE with weak planar laminae. Bioturbation is abundant throughout. Several large burrows occur which are filled with silt and sand size grains. Rare to common shell fragments are present.

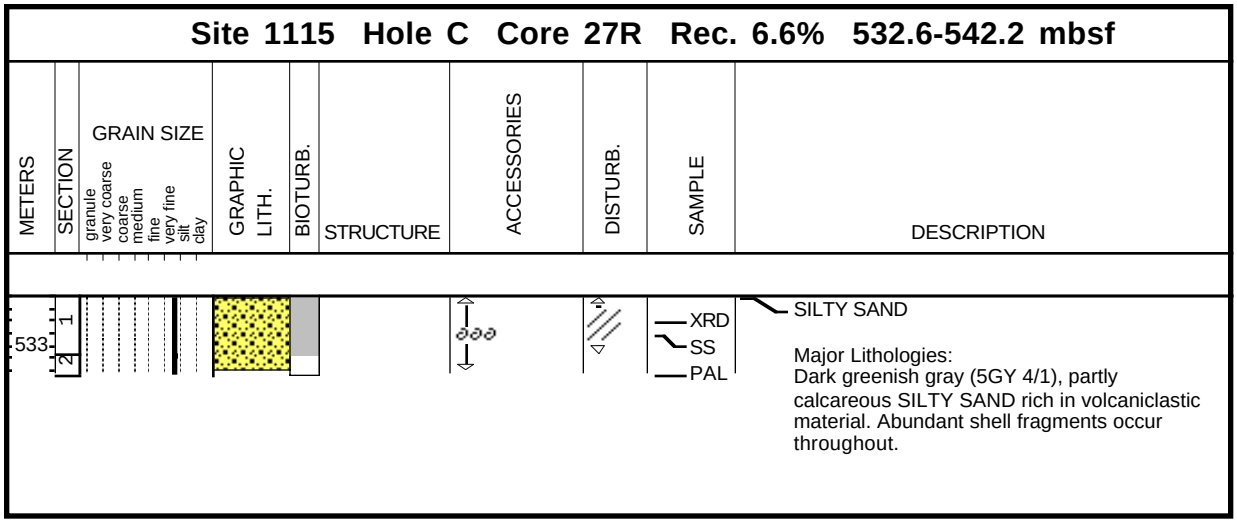
Core Photo


Site 1115 Hole C Core 25R Rec. 31.0% 513.4-523.0 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
514
515
516
1
2
3
SS
SS
IW
SS
XRD
THS
SS
SS
PAL
SANDSTONE and SILTY SANDSTONE
Major Lithologies:
Section 1 consists of dark greenish gray (5GY 4/1), fine-grained, structureless SANDSTONE from 0-21 cm, medium-grained SANDSTONE from 21-67 cm, fine-grained SILTY SANDSTONE from 67-77 cm, a fine- to medium-grained SANDSTONE from 77-93 cm, and thinly laminated carbonaceous-rich SILTY SANDSTONE from 93-140 cm. Rip up clasts occur from 77-93 cm. Section 2 is characterized by a normally graded coarse to medium-grained SANDSTONE with common to abundant shell fragments. The core catcher is composed of coarse-grained SANDSTONE with abundant shell fragments.

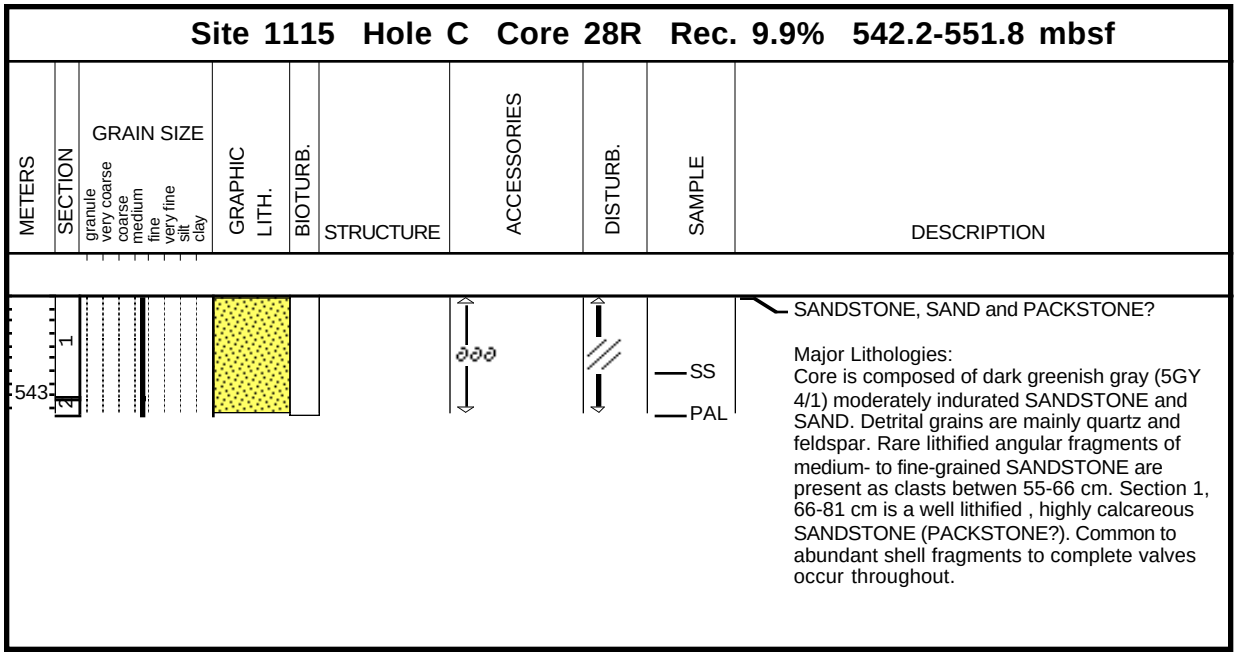
Core Photo


Site 1115 Hole C Core 26R Rec. 6.8% 523.0-532.6 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
1
2
THS
XRD
PAL
SANDSTONE and SILTY SANDSTONE
Major Lithologies:
Section 1 consists of very fine- to medium-grained calcareous SANDSTONE rich in volcaniclastic material. The core catcher is composed of SILTY SANDSTONE (probably limestone) with moderate to common shell fragments.

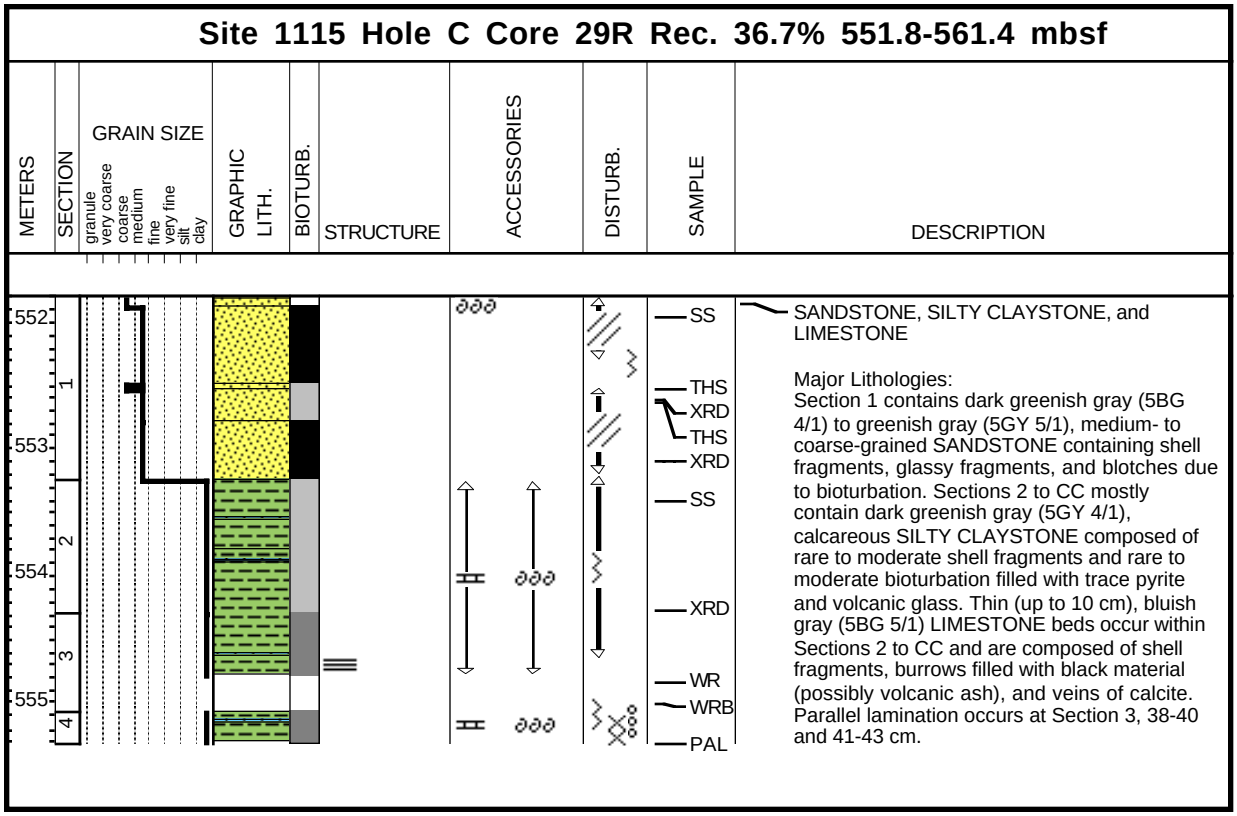
Core Photo


Site 1115 Hole C Core 27R Rec. 6.6% 532.6-542.2 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
533
1
2
XRD
SS
PAL
SILTY SAND
Major Lithologies:
Dark greenish gray (5GY 4/1), partly calcareous SILTY SAND rich in volcaniclastic material. Abundant shell fragments occur throughout.

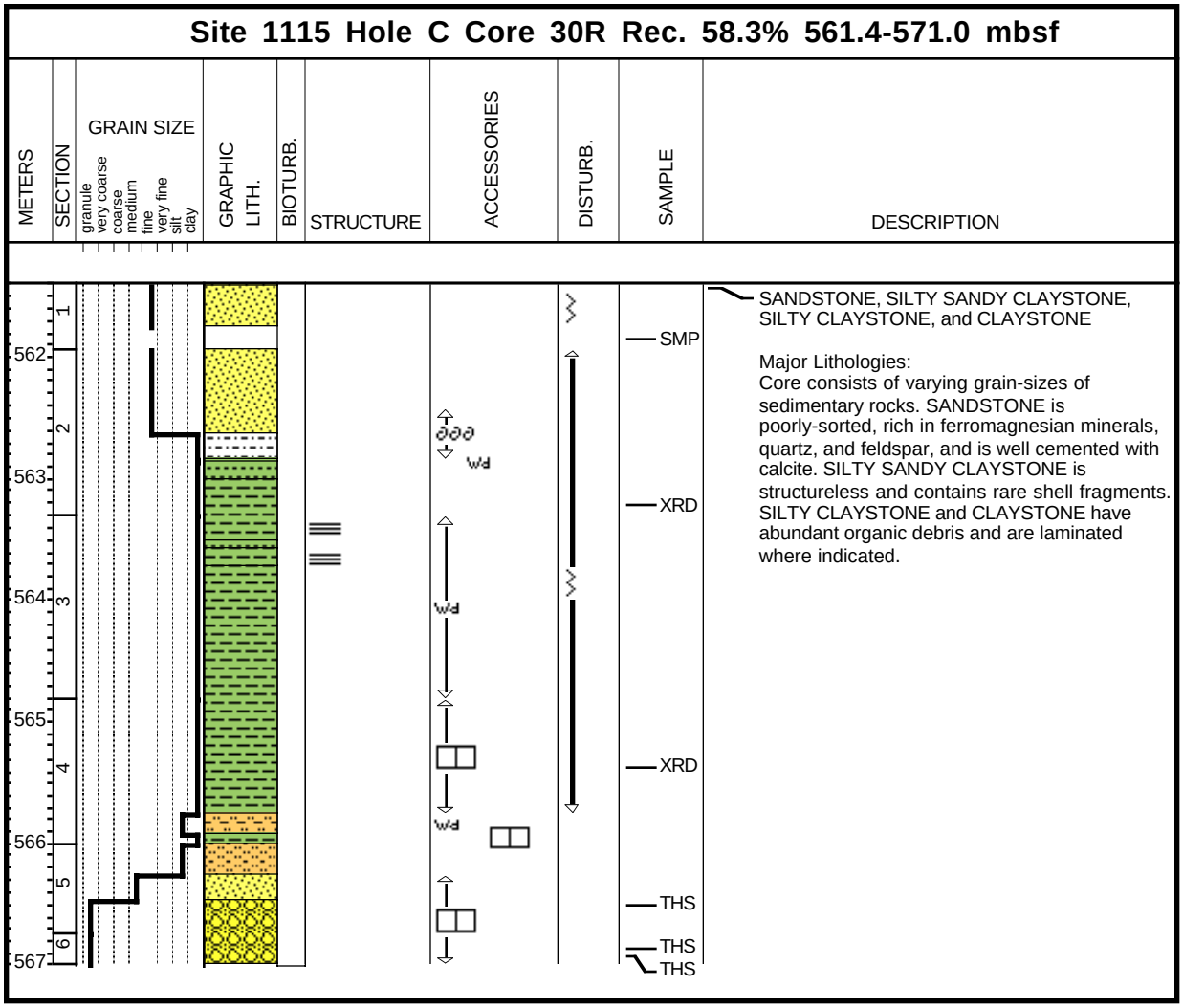
Core Photo


Site 1115 Hole C Core 28R Rec. 9.9% 542.2-551.8 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
543
1
SS
PAL
SANDSTONE, SAND and PACKSTONE?
Major Lithologies:
Core is composed of dark greenish gray (5GY 4/1) moderately indurated SANDSTONE and SAND. Detrital grains are mainly quartz and feldspar. Rare lithified angular fragments of medium- to fine-grained SANDSTONE are present as clasts betwen 55-66 cm. Section 1, 66-81 cm is a well lithified , highly calcareous SANDSTONE (PACKSTONE?). Common to abundant shell fragments to complete valves occur throughout.

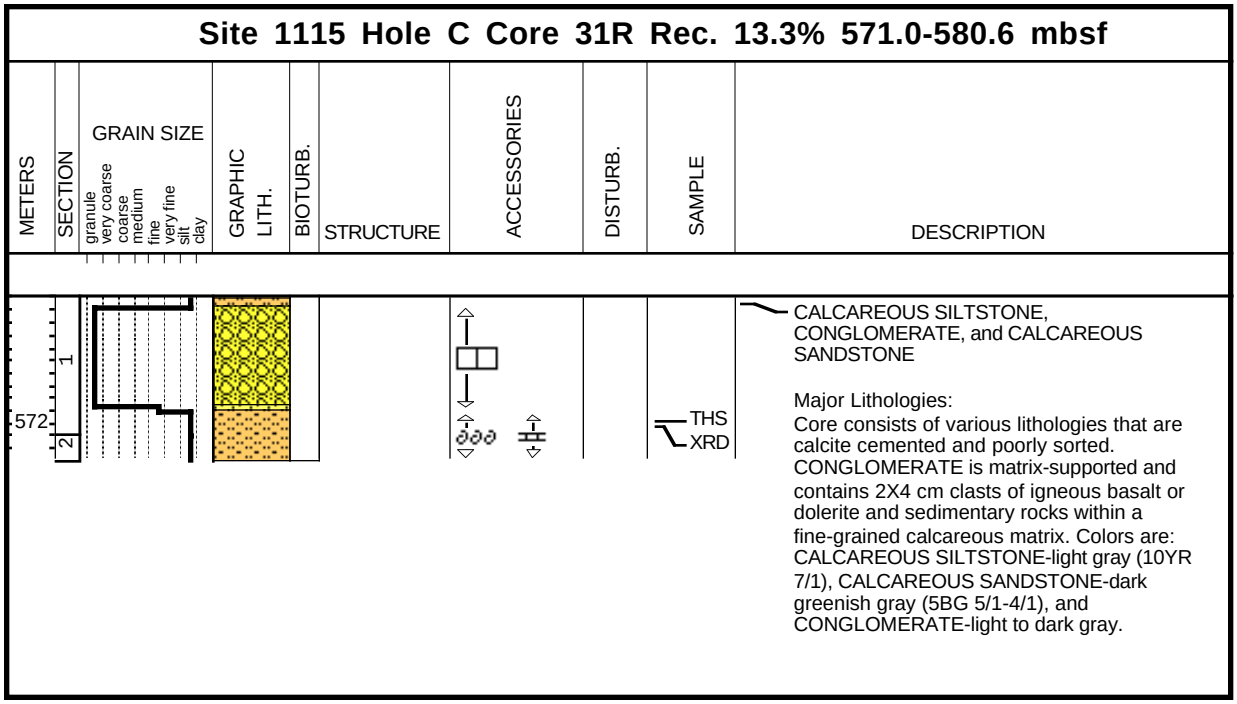
Core Photo


Site 1115 Hole C Core 29R Rec. 36.7% 551.8-561.4 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
552
553
554
555
1
2
3
4
SS
THS
XRD
THS
XRD
SS
XRD
WR
WRB
PAL
SANDSTONE, SILTY CLAYSTONE, and LIMESTONE
Major Lithologies:
Section 1 contains dark greenish gray (5BG 4/1) to greenish gray (5GY 5/1), medium- to coarse-grained SANDSTONE containing shell fragments, glassy fragments, and blotches due to bioturbation. Sections 2 to CC mostly contain dark greenish gray (5GY 4/1), calcareous SILTY CLAYSTONE composed of rare to moderate shell fragments and rare to moderate bioturbation filled with trace pyrite and volcanic glass. Thin (up to 10 cm), bluish gray (5BG 5/1) LIMESTONE beds occur within Sections 2 to CC and are composed of shell fragments, burrows filled with black material (possibly volcanic ash), and veins of calcite. Parallel lamination occurs at Section 3, 38-40 and 41-43 cm.

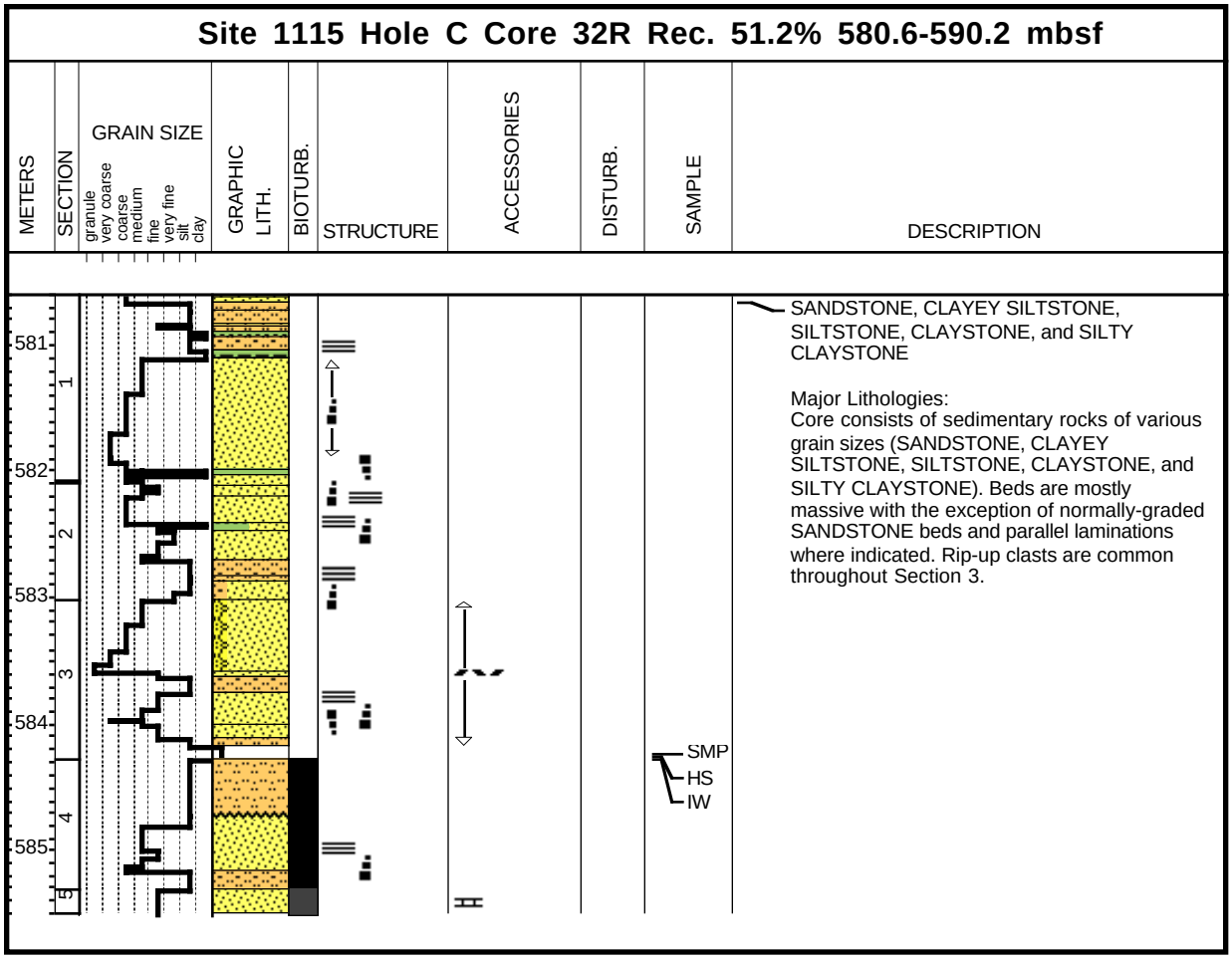
Core Photo


Site 1115 Hole C Core 30R Rec. 58.3% 561.4-571.0 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
562
563
564
565
566
567
1
2
3
4
5
6
SMP
XRD
XRD
THS
THS
THS
SANDSTONE, SILTY SANDY CLAYSTONE, SILTY CLAYSTONE, and CLAYSTONE
Major Lithologies:
Core consists of varying grain-sizes of sedimentary rocks. SANDSTONE is poorly-sorted, rich in ferromagnesian minerals, quartz, and feldspar, and is well cemented with calcite. SILTY SANDY CLAYSTONE is structureless and contains rare shell fragments. SILTY CLAYSTONE and CLAYSTONE have abundant organic debris and are laminated where indicated.

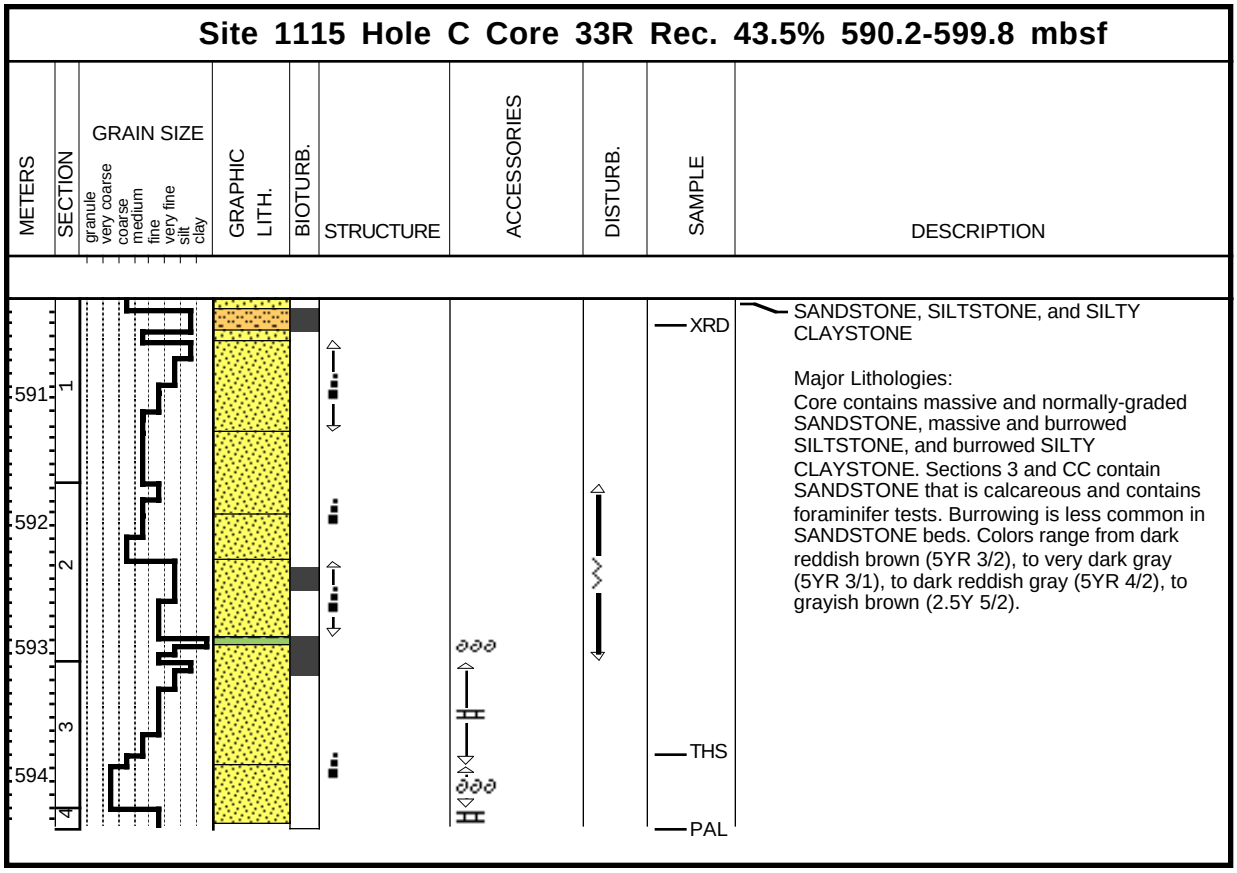
Core Photo


Site 1115 Hole C Core 31R Rec. 13.3% 571.0-580.6 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
572
1
2
THS
XRD
CALCAREOUS SILTSTONE, CONGLOMERATE, and CALCAREOUS SANDSTONE
Major Lithologies:
Core consists of various lithologies that are calcite cemented and poorly sorted. CONGLOMERATE is matrix-supported and contains 2X4 cm clasts of igneous basalt or dolerite and sedimentary rocks within a fine-grained calcareous matrix. Colors are: CALCAREOUS SILTSTONE-light gray (10YR 7/1), CALCAREOUS SANDSTONE-dark greenish gray (5BG 5/1-4/1), and CONGLOMERATE-light to dark gray.

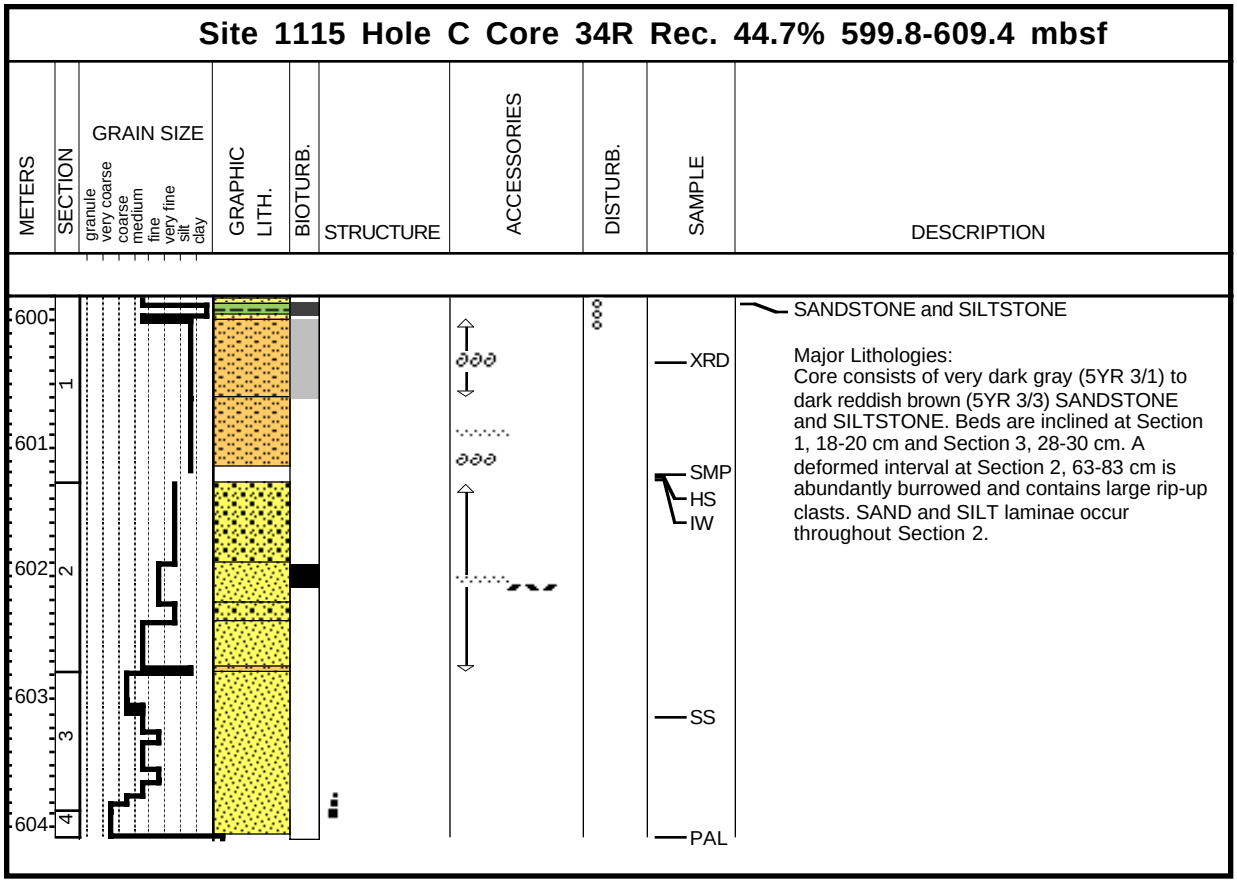
Core Photo


Site 1115 Hole C Core 32R Rec. 51.2% 580.6-590.2 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
581
582
583
584
585
1
2
3
4
5
SMP
HS
IW
SANDSTONE, CLAYEY SILTSTONE, SILTSTONE, CLAYSTONE, and SILTY CLAYSTONE
Major Lithologies:
Core consists of sedimentary rocks of various grain sizes (SANDSTONE, CLAYEY SILTSTONE, SILTSTONE, CLAYSTONE, and SILTY CLAYSTONE). Beds are mostly massive with the exception of normally-graded SANDSTONE beds and parallel laminations where indicated. Rip-up clasts are common throughout Section 3.

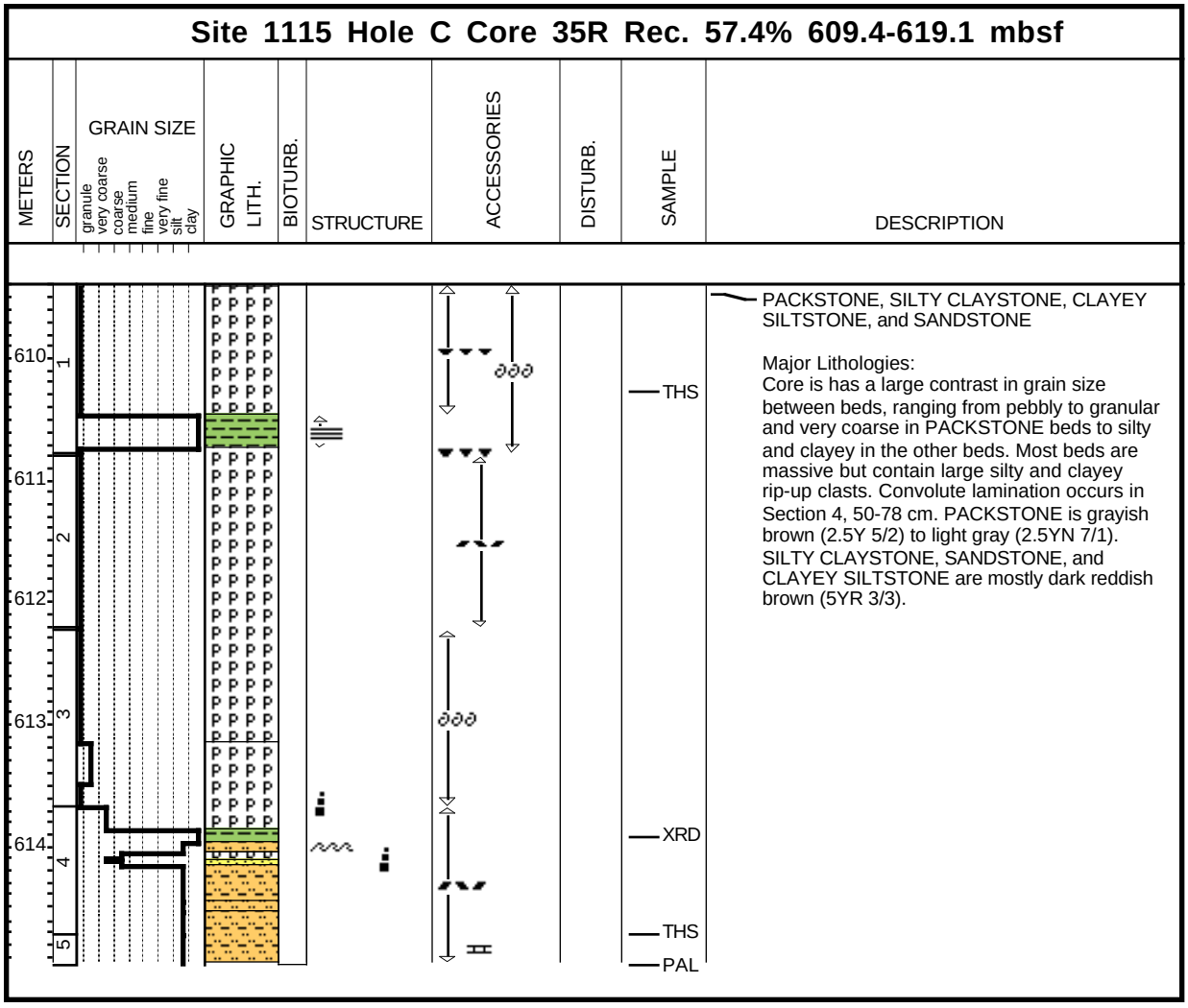
Core Photo


Site 1115 Hole C Core 33R Rec. 43.5% 590.2-599.8 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
591
592
593
594
1
2
3
4
XRD
THS
PAL
SANDSTONE, SILTSTONE, and SILTY CLAYSTONE
Major Lithologies:
Core contains massive and normally-graded SANDSTONE, massive and burrowed SILTSTONE, and burrowed SILTY CLAYSTONE. Sections 3 and CC contain SANDSTONE that is calcareous and contains foraminifer tests. Burrowing is less common in SANDSTONE beds. Colors range from dark reddish brown (5YR 3/2), to very dark gray (5YR 3/1), to dark reddish gray (5YR 4/2), to grayish brown (2.5Y 5/2).

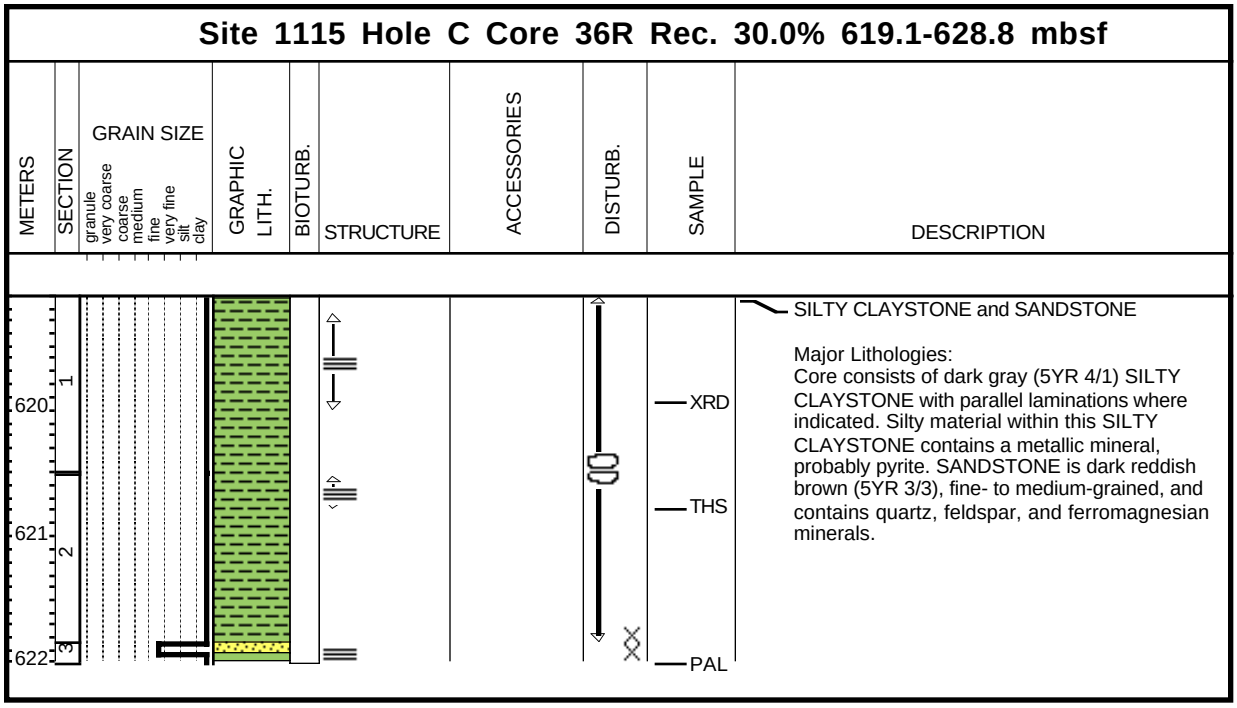
Core Photo


Site 1115 Hole C Core 34R Rec. 44.7% 599.8-609.4 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
600
601
602
603
604
1
2
3
4
XRD
SMP
HS
IW
SS
PAL
SANDSTONE and SILTSTONE
Major Lithologies:
Core consists of very dark gray (5YR 3/1) to dark reddish brown (5YR 3/3) SANDSTONE and SILTSTONE. Beds are inclined at Section 1, 18-20 cm and Section 3, 28-30 cm. A deformed interval at Section 2, 63-83 cm is abundantly burrowed and contains large rip-up clasts. SAND and SILT laminae occur throughout Section 2.

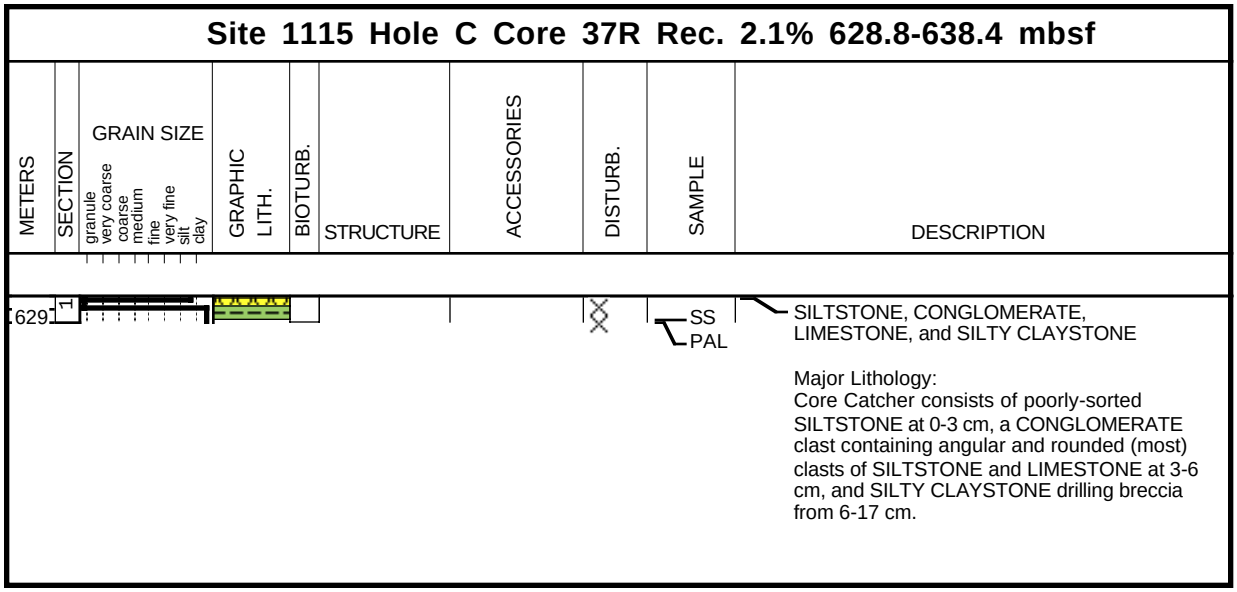
Core Photo


Site 1115 Hole C Core 35R Rec. 57.4% 609.4-619.1 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
610
611
612
613
614
1
2
3
4
5
THS
XRD
THS
PAL
PACKSTONE, SILTY CLAYSTONE, CLAYEY SILTSTONE, and SANDSTONE
Major Lithologies:
Core is has a large contrast in grain size between beds, ranging from pebbly to granular and very coarse in PACKSTONE beds to silty and clayey in the other beds. Most beds are massive but contain large silty and clayey rip-up clasts. Convolute lamination occurs in Section 4, 50-78 cm. PACKSTONE is grayish brown (2.5Y 5/2) to light gray (2.5YN 7/1). SILTY CLAYSTONE, SANDSTONE, and CLAYEY SILTSTONE are mostly dark reddish brown (5YR 3/3).

Core Photo

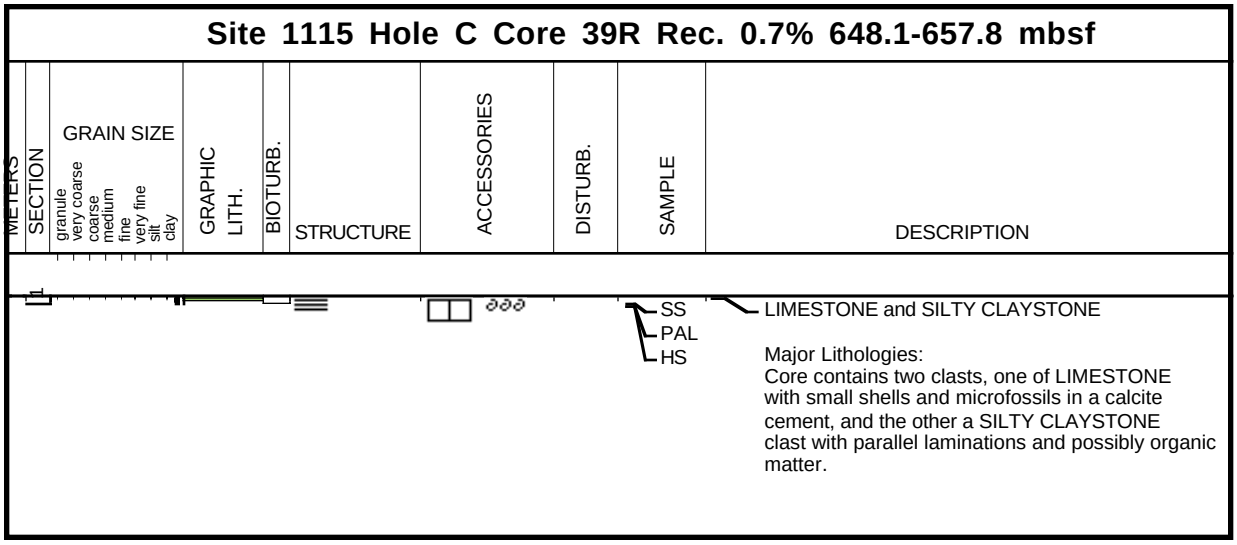

Site 1115 Hole C Core 36R Rec. 30.0% 619.1-628.8 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
620
621
622
1
2
3
XRD
THS
PAL
SILTY CLAYSTONE and SANDSTONE
Major Lithologies:
Core consists of dark gray (5YR 4/1) SILTY CLAYSTONE with parallel laminations where indicated. Silty material within this SILTY CLAYSTONE contains a metallic mineral, probably pyrite. SANDSTONE is dark reddish brown (5YR 3/3), fine- to medium-grained, and contains quartz, feldspar, and ferromagnesian minerals.

Core Photo

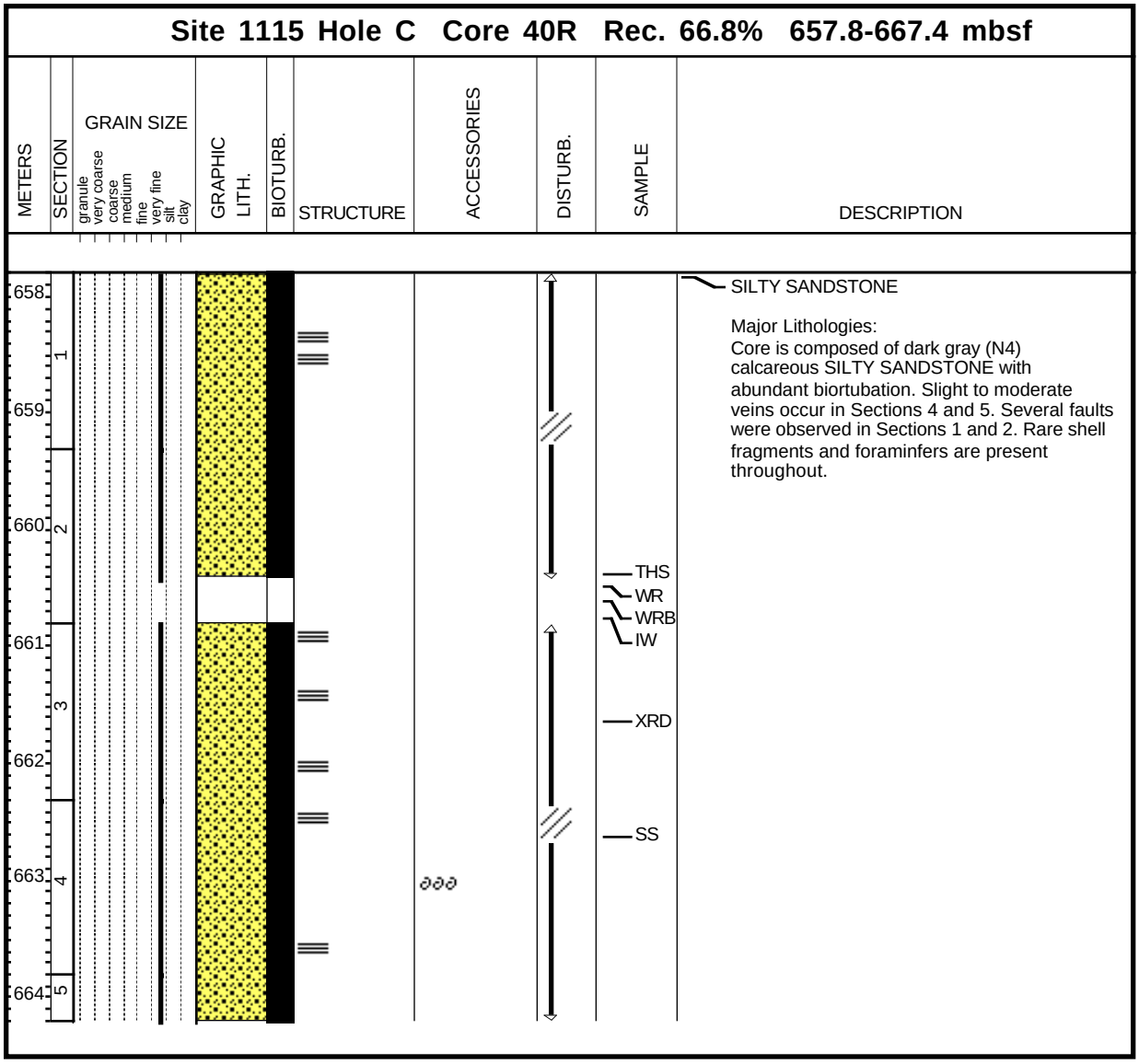


1115C-38R NO RECOVERY

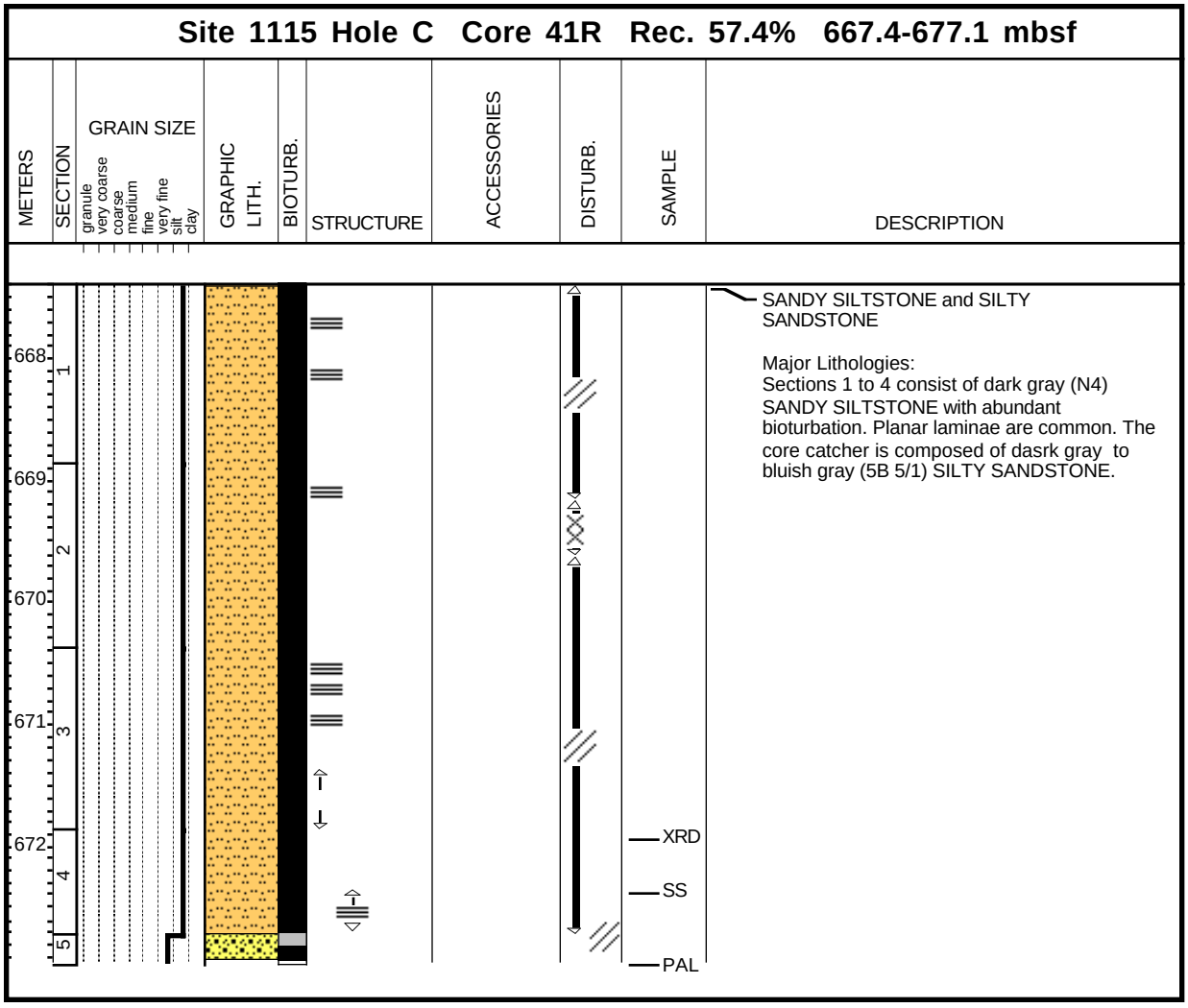
Core Photo


Site 1115 Hole C Core 39R Rec. 0.7% 648.1-657.8 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
SS
PAL
HS
LIMESTONE and SILTY CLAYSTONE
Major Lithologies:
Core contains two clasts, one of LIMESTONE with small shells and microfossils in a calcite cement, and the other a SILTY CLAYSTONE clast with parallel laminations and possibly organic matter.

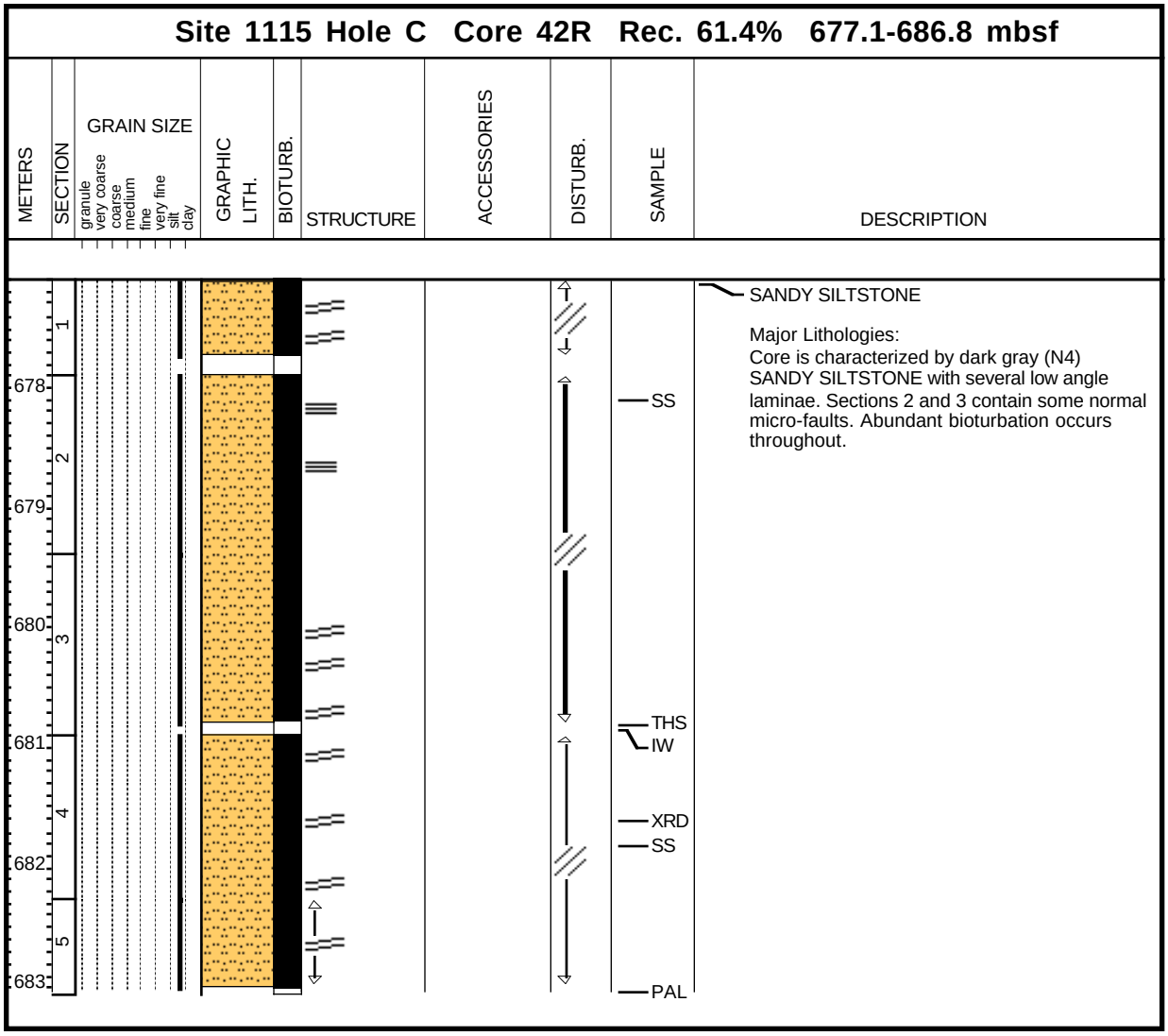
Core Photo


Site 1115 Hole C Core 40R Rec. 66.8% 657.8-667.4 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
658
659
660
661
662
663
664
1
2
3
4
5
THS
WR
WRB
IW
XRD
SS
SILTY SANDSTONE
Major Lithologies:
Core is composed of dark gray (N4) calcareous SILTY SANDSTONE with abundant biortubation. Slight to moderate veins occur in Sections 4 and 5. Several faults were observed in Sections 1 and 2. Rare shell fragments and foraminfers are present throughout.

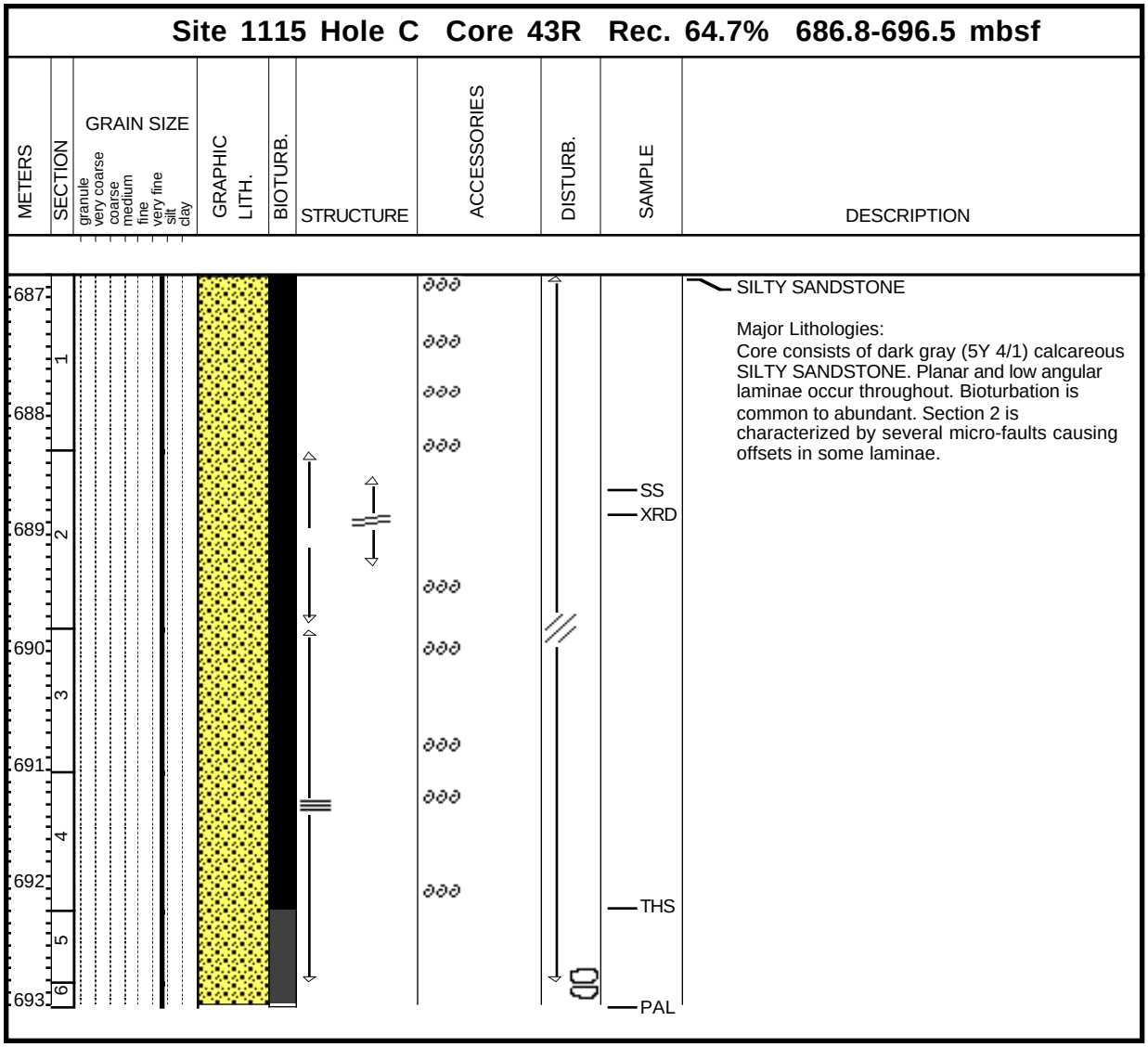
Core Photo


Site 1115 Hole C Core 41R Rec. 57.4% 667.4-677.1 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
668
669
670
671
672
1
2
3
4
5
XRD
SS
PAL
SANDY SILTSTONE and SILTY SANDSTONE
Major Lithologies:
Sections 1 to 4 consist of dark gray (N4) SANDY SILTSTONE with abundant bioturbation. Planar laminae are common. The core catcher is composed of dasrk gray to bluish gray (5B 5/1) SILTY SANDSTONE.

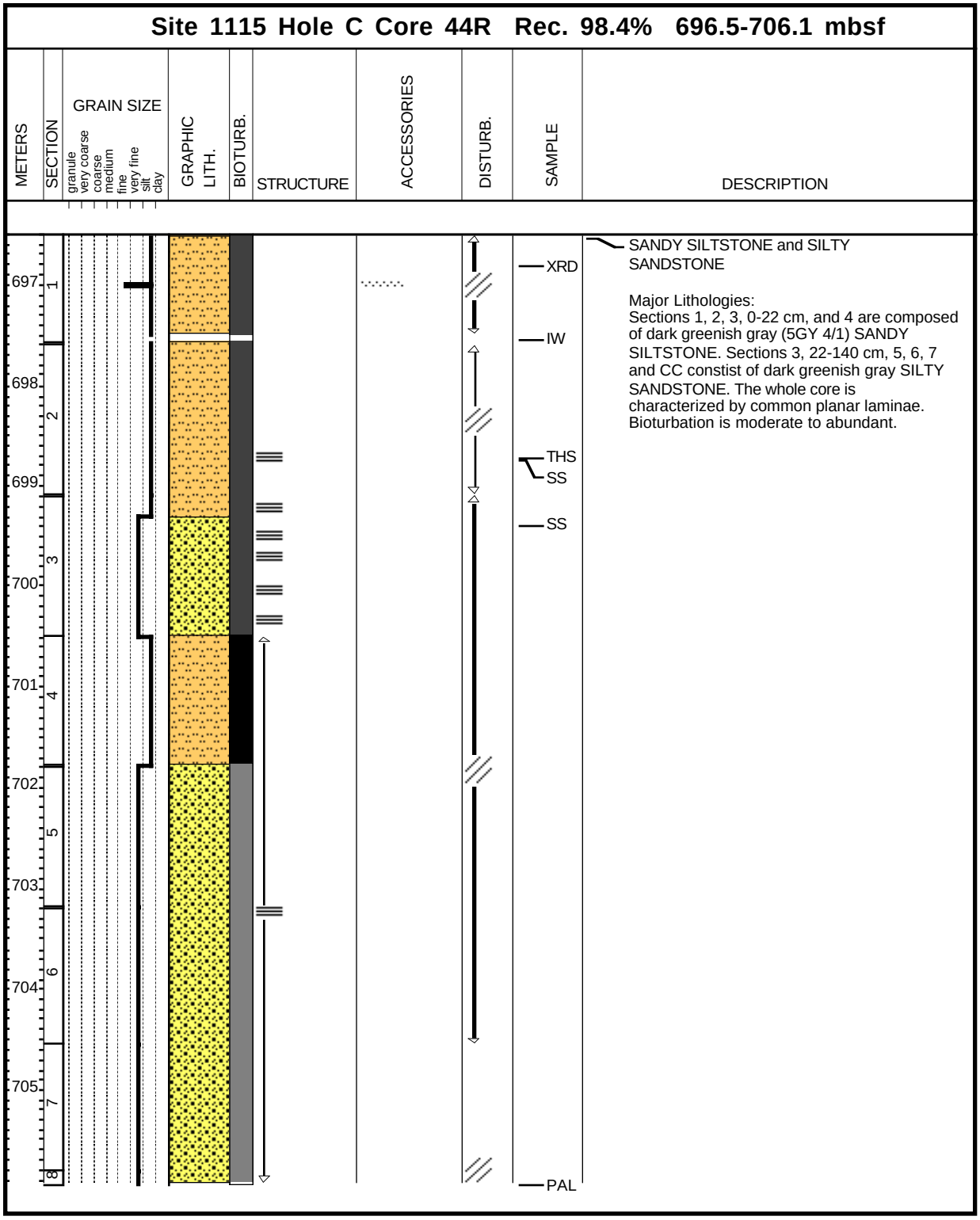
Core Photo


Site 1115 Hole C Core 42R Rec. 61.4% 677.1-686.8 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
678
679
680
681
682
683
1
2
3
4
5
SS
THS
IW
XRD
SS
PAL
SANDY SILTSTONE
Major Lithologies:
Core is characterized by dark gray (N4) SANDY SILTSTONE with several low angle laminae. Sections 2 and 3 contain some normal micro-faults. Abundant bioturbation occurs throughout.

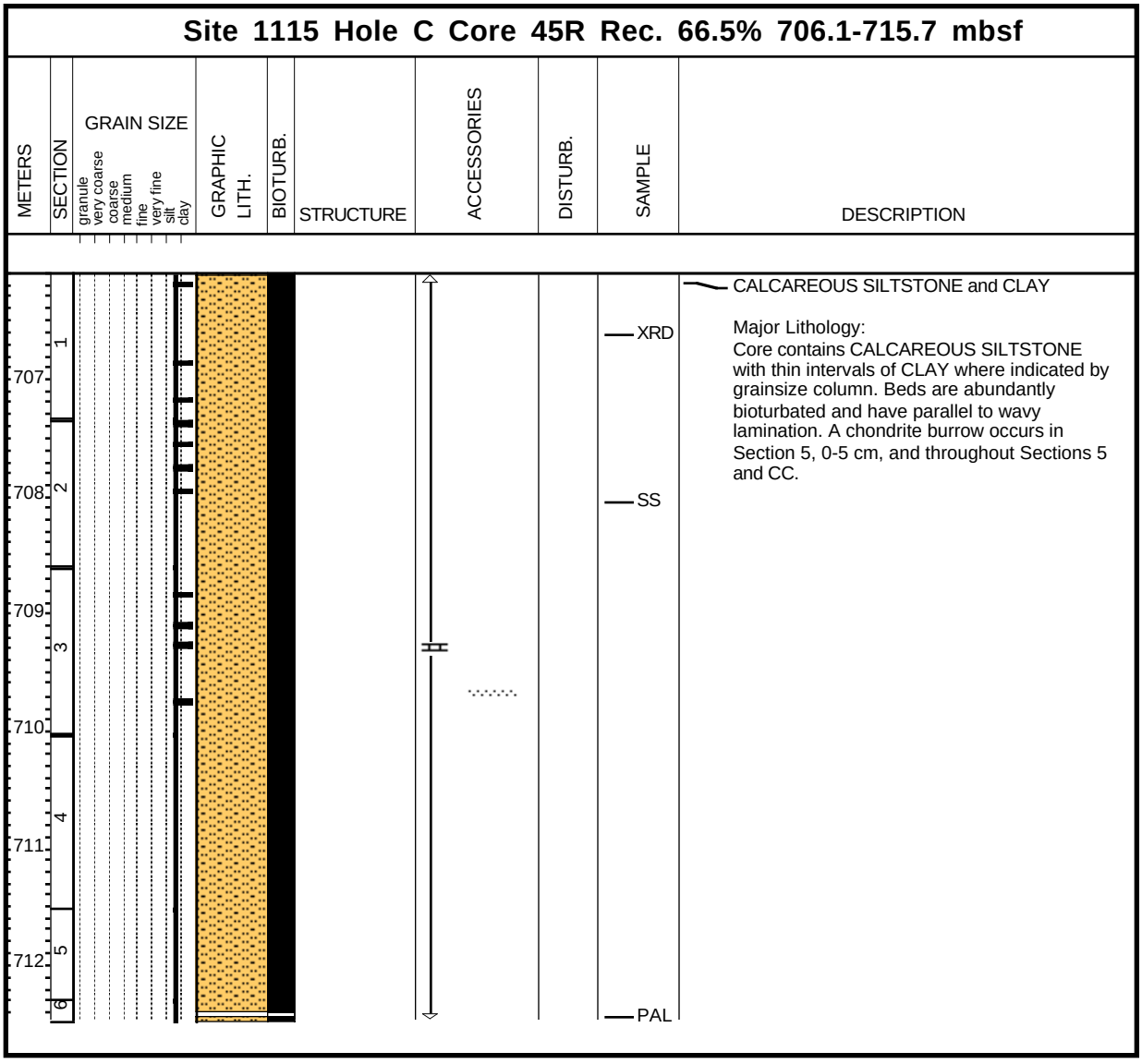
Core Photo


Site 1115 Hole C Core 43R Rec. 64.7% 686.8-696.5 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
687
688
689
690
691
692
693
1
2
3
4
5
6
SS
XRD
THS
PAL
SILTY SANDSTONE
Major Lithologies:
Core consists of dark gray (5Y 4/1) calcareous SILTY SANDSTONE. Planar and low angular laminae occur throughout. Bioturbation is common to abundant. Section 2 is characterized by several micro-faults causing offsets in some laminae.

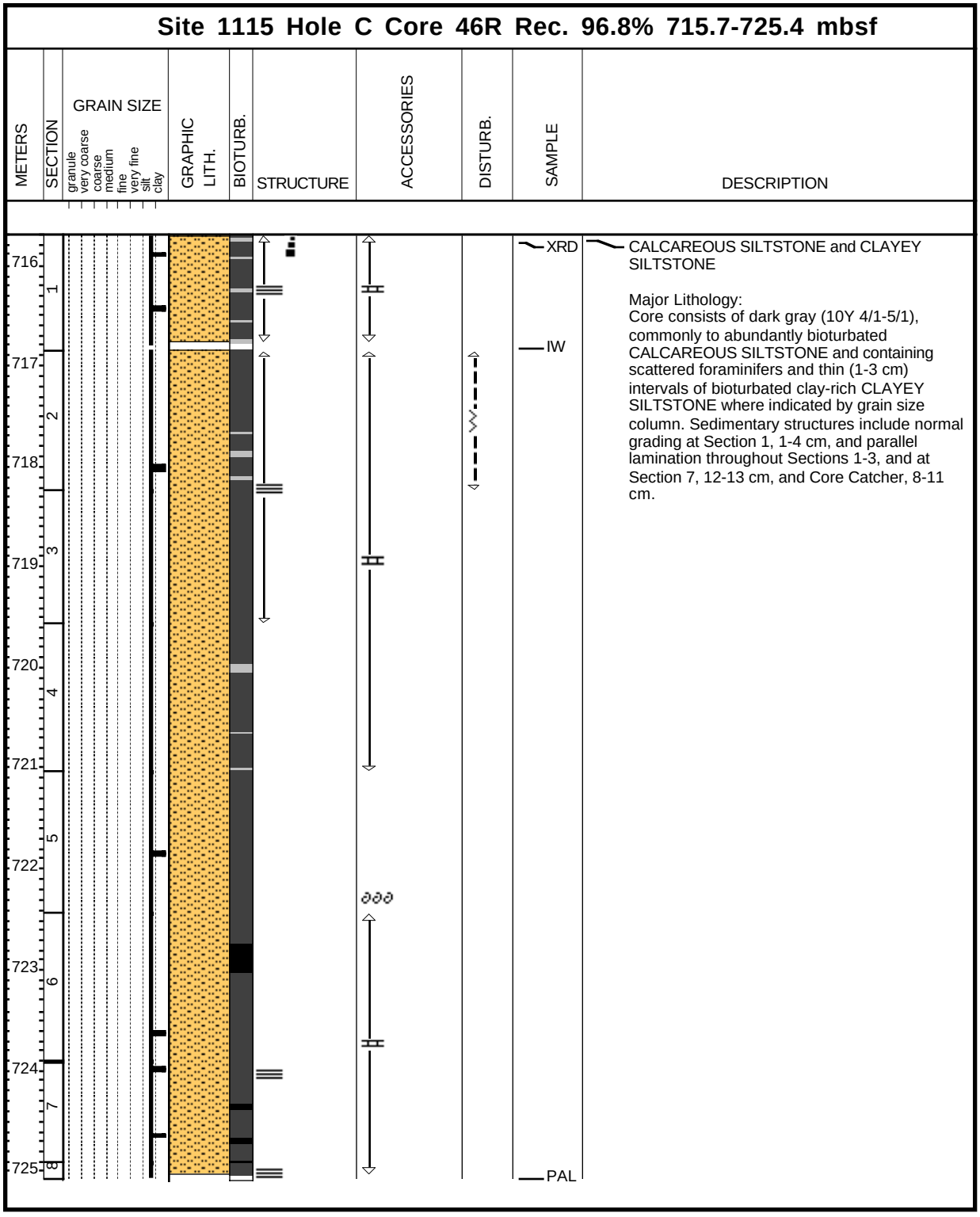
Core Photo


Site 1115 Hole C Core 44R Rec. 98.4% 696.5-706.1 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
697
698
699
700
701
702
703
704
705
1
2
3
4
5
6
7
8
XRD
IW
THS
SS
SS
PAL
SANDY SILTSTONE and SILTY SANDSTONE
Major Lithologies:
Sections 1, 2, 3, 0-22 cm, and 4 are composed of dark greenish gray (5GY 4/1) SANDY SILTSTONE. Sections 3, 22-140 cm, 5, 6, 7 and CC constist of dark greenish gray SILTY SANDSTONE. The whole core is characterized by common planar laminae. Bioturbation is moderate to abundant.

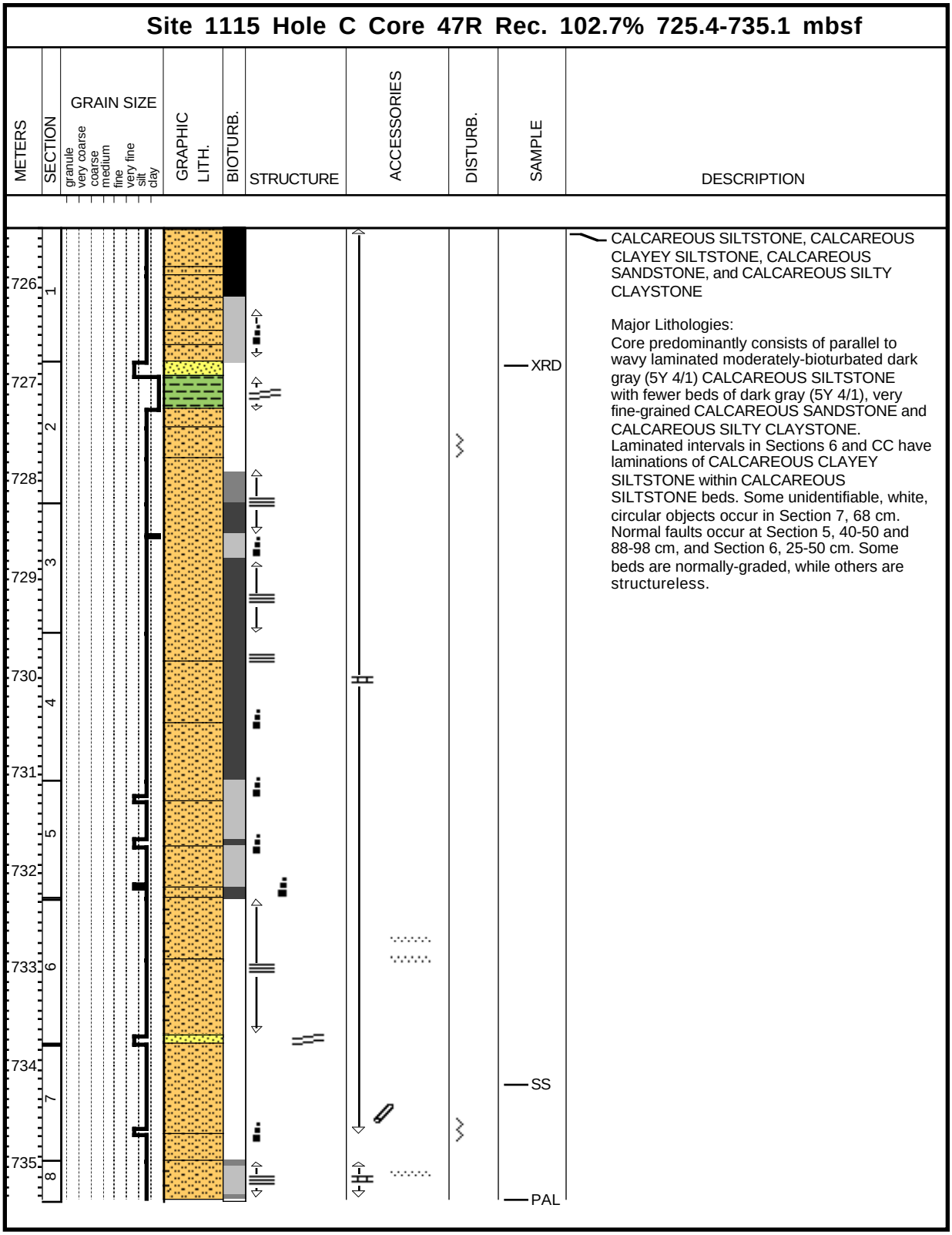
Core Photo


Site 1115 Hole C Core 45R Rec. 66.5% 706.1-715.7 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
707
708
709
710
711
712
1
2
3
4
5
6
XRD
SS
PAL
CALCAREOUS SILTSTONE and CLAY
Major Lithology:
Core contains CALCAREOUS SILTSTONE with thin intervals of CLAY where indicated by grainsize column. Beds are abundantly bioturbated and have parallel to wavy lamination. A chondrite burrow occurs in Section 5, 0-5 cm, and throughout Sections 5 and CC.

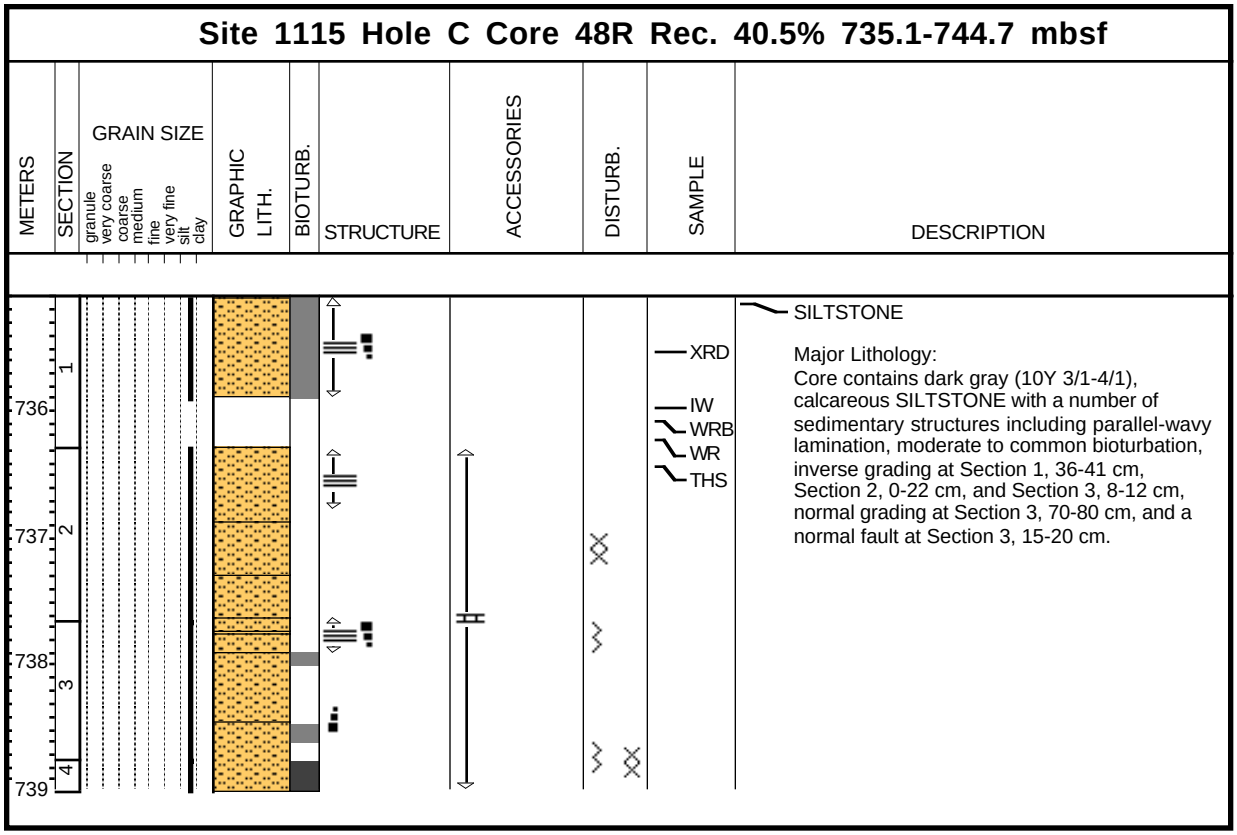
Core Photo


Site 1115 Hole C Core 46R Rec. 96.8% 715.7-725.4 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
716
717
718
719
720
721
722
723
724
725
1
2
3
4
5
6
7
CC
XRD
IW
PAL
CALCAREOUS SILTSTONE and CLAYEY SILTSTONE
Major Lithology:
Core consists of dark gray (10Y 4/1-5/1), commonly to abundantly bioturbated CALCAREOUS SILTSTONE and containing scattered foraminifers and thin (1-3 cm) intervals of bioturbated clay-rich CLAYEY SILTSTONE where indicated by grain size column. Sedimentary structures include normal grading at Section 1, 1-4 cm, and parallel lamination throughout Sections 1-3, and at Section 7, 12-13 cm, and Core Catcher, 8-11 cm.

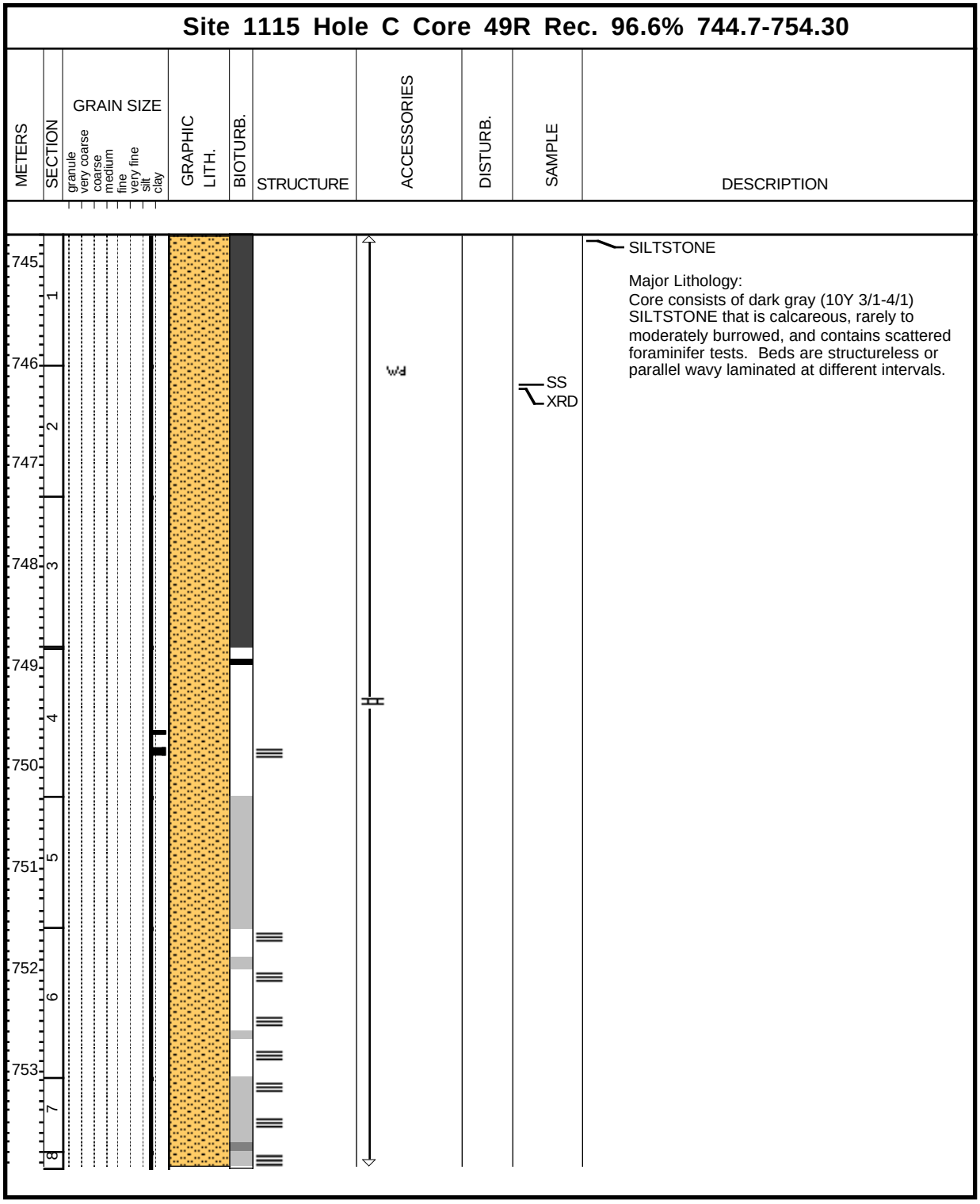
Core Photo


Site 1115 Hole C Core 47R Rec. 102.7% 725.4-735.1 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
726
727
728
729
730
731
732
733
734
735
1
2
3
4
5
6
7
8
XRD
SS
PAL
CALCAREOUS SILTSTONE, CALCAREOUS CLAYEY SILTSTONE, CALCAREOUS SANDSTONE, and CALCAREOUS SILTY CLAYSTONE
Major Lithologies:
Core predominantly consists of parallel to wavy laminated moderately-bioturbated dark gray (5Y 4/1) CALCAREOUS SILTSTONE with fewer beds of dark gray (5Y 4/1), very fine-grained CALCAREOUS SANDSTONE and CALCAREOUS SILTY CLAYSTONE. Laminated intervals in Sections 6 and CC have laminations of CALCAREOUS CLAYEY SILTSTONE within CALCAREOUS SILTSTONE beds. Some unidentifiable, white, circular objects occur in Section 7, 68 cm. Normal faults occur at Section 5, 40-50 and 88-98 cm, and Section 6, 25-50 cm. Some beds are normally-graded, while others are structureless.

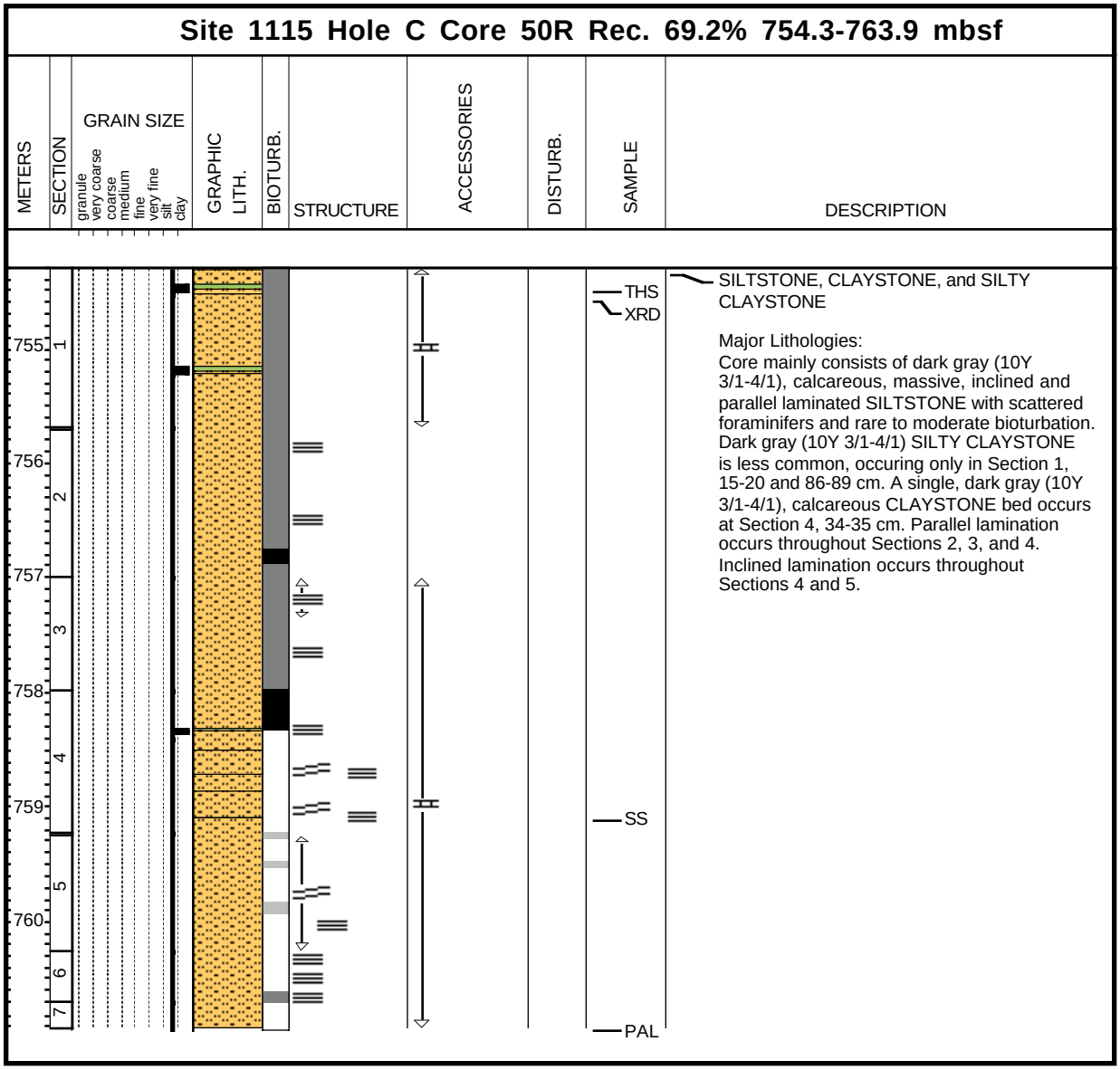
Core Photo


Site 1115 Hole C Core 48R Rec. 40.5% 735.1-744.7 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
736
737
738
739
1
2
3
4
XRD
IW
WRB
WR
THS
SILTSTONE
Major Lithology:
Core contains dark gray (10Y 3/1-4/1), calcareous SILTSTONE with a number of sedimentary structures including parallel-wavy lamination, moderate to common bioturbation, inverse grading at Section 1, 36-41 cm, Section 2, 0-22 cm, and Section 3, 8-12 cm, normal grading at Section 3, 70-80 cm, and a normal fault at Section 3, 15-20 cm.

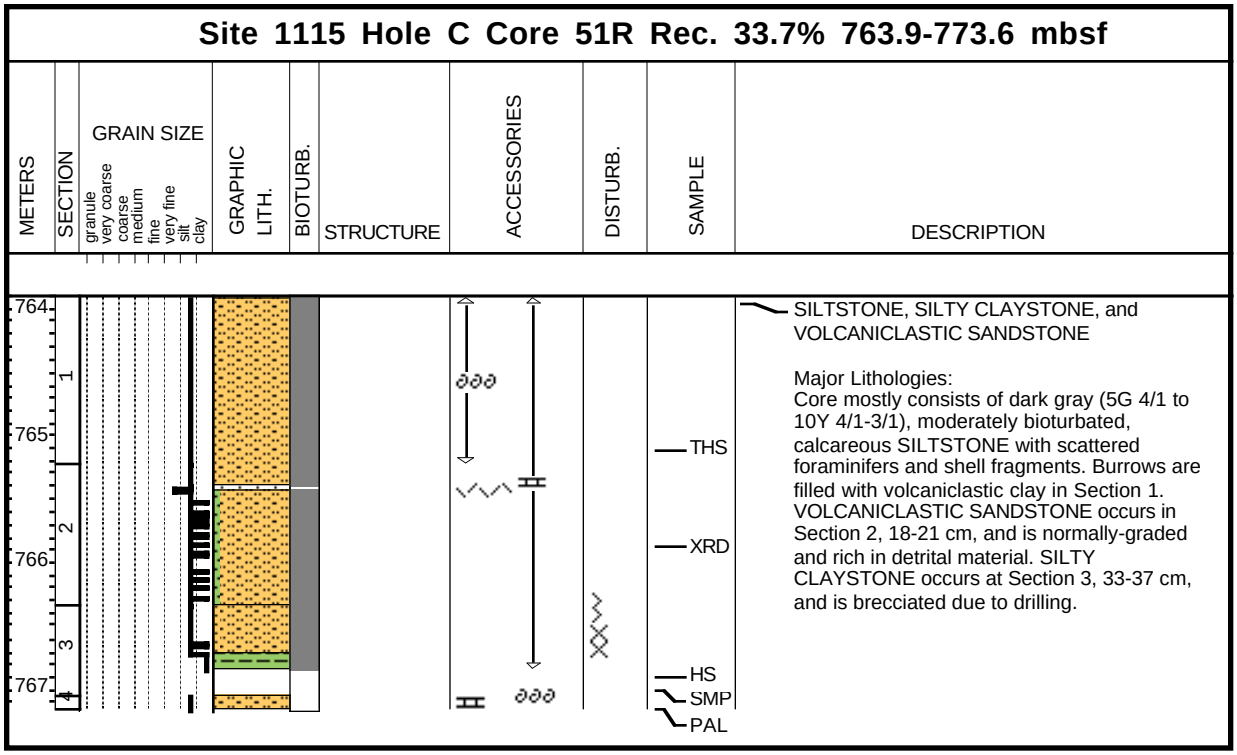
Core Photo


Site 1115 Hole C Core 49R Rec. 96.6% 744.7-754.30
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
745
746
747
748
749
750
751
752
753
1
2
3
4
5
6
7
8
wd
SS
XRD
SILTSTONE
Major Lithology:
Core consists of dark gray (10Y 3/1-4/1) SILTSTONE that is calcareous, rarely to moderately burrowed, and contains scattered foraminifer tests. Beds are structureless or parallel wavy laminated at different intervals.

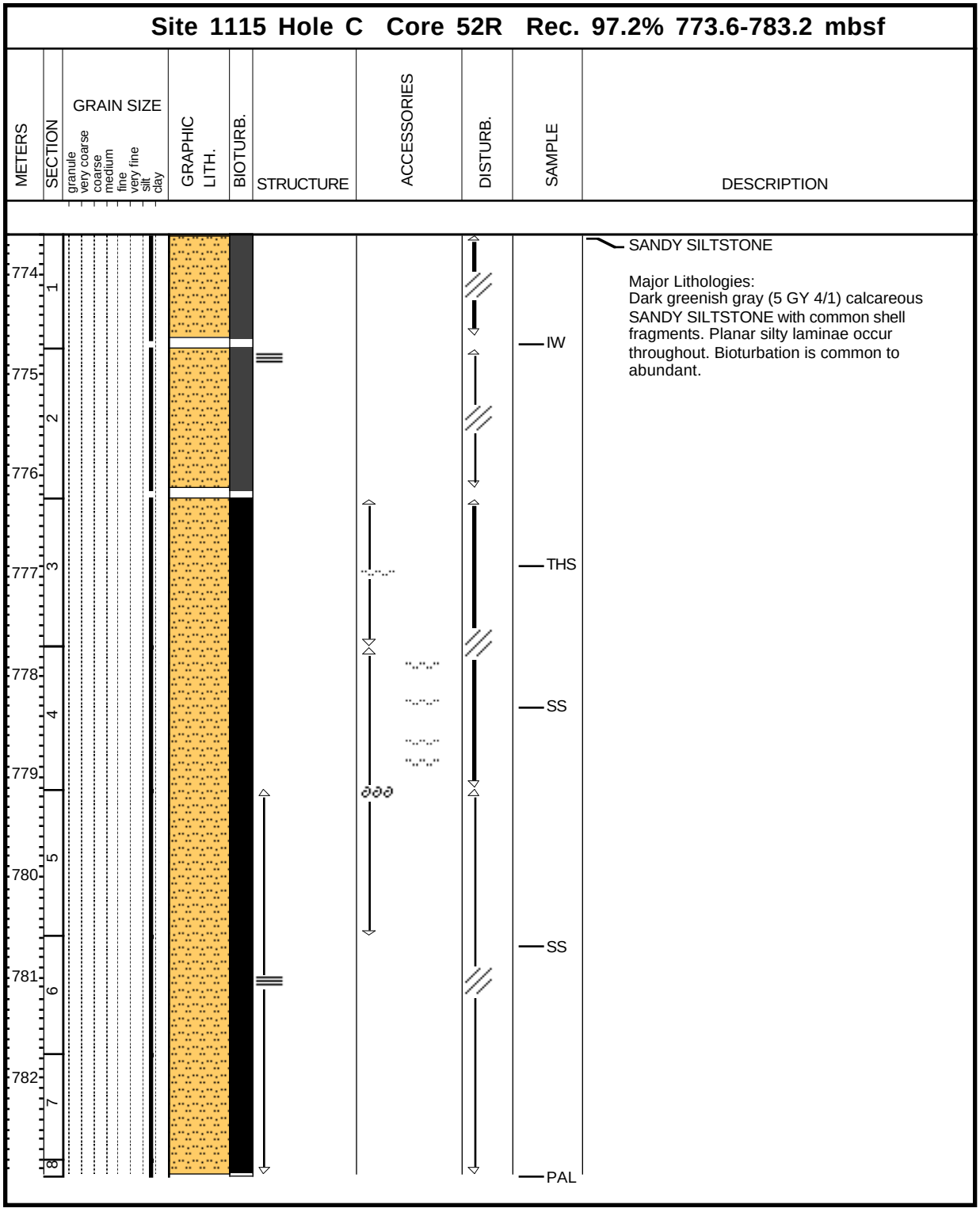
Core Photo


Site 1115 Hole C Core 50R Rec. 69.2% 754.3-763.9 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
755
756
757
758
759
760
1
2
3
4
5
6
7
THS
XRD
SS
PAL
SILTSTONE, CLAYSTONE, and SILTY CLAYSTONE
Major Lithologies:
Core mainly consists of dark gray (10Y 3/1-4/1), calcareous, massive, inclined and parallel laminated SILTSTONE with scattered foraminifers and rare to moderate bioturbation. Dark gray (10Y 3/1-4/1) SILTY CLAYSTONE is less common, occuring only in Section 1, 15-20 and 86-89 cm. A single, dark gray (10Y 3/1-4/1), calcareous CLAYSTONE bed occurs at Section 4, 34-35 cm. Parallel lamination occurs throughout Sections 2, 3, and 4. Inclined lamination occurs throughout Sections 4 and 5.

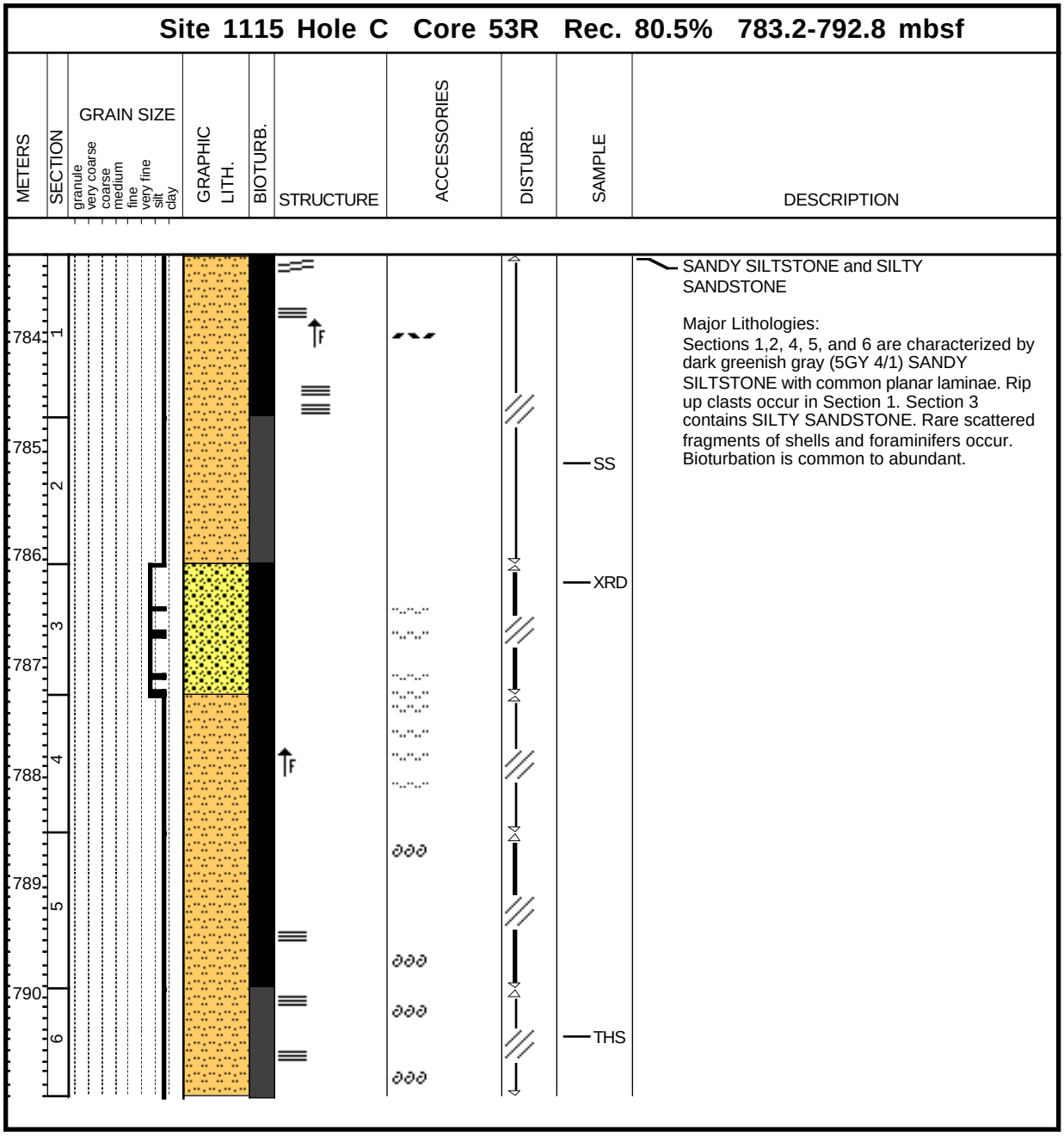
Core Photo


Site 1115 Hole C Core 51R Rec. 33.7% 763.9-773.6 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
764
765
766
767
1
2
3
4
THS
XRD
HS
SMP
PAL
SILTSTONE, SILTY CLAYSTONE, and VOLCANICLASTIC SANDSTONE
Major Lithologies:
Core mostly consists of dark gray (5G 4/1 to 10Y 4/1-3/1), moderately bioturbated, calcareous SILTSTONE with scattered foraminifers and shell fragments. Burrows are filled with volcaniclastic clay in Section 1. VOLCANICLASTIC SANDSTONE occurs in Section 2, 18-21 cm, and is normally-graded and rich in detrital material. SILTY CLAYSTONE occurs at Section 3, 33-37 cm, and is brecciated due to drilling.

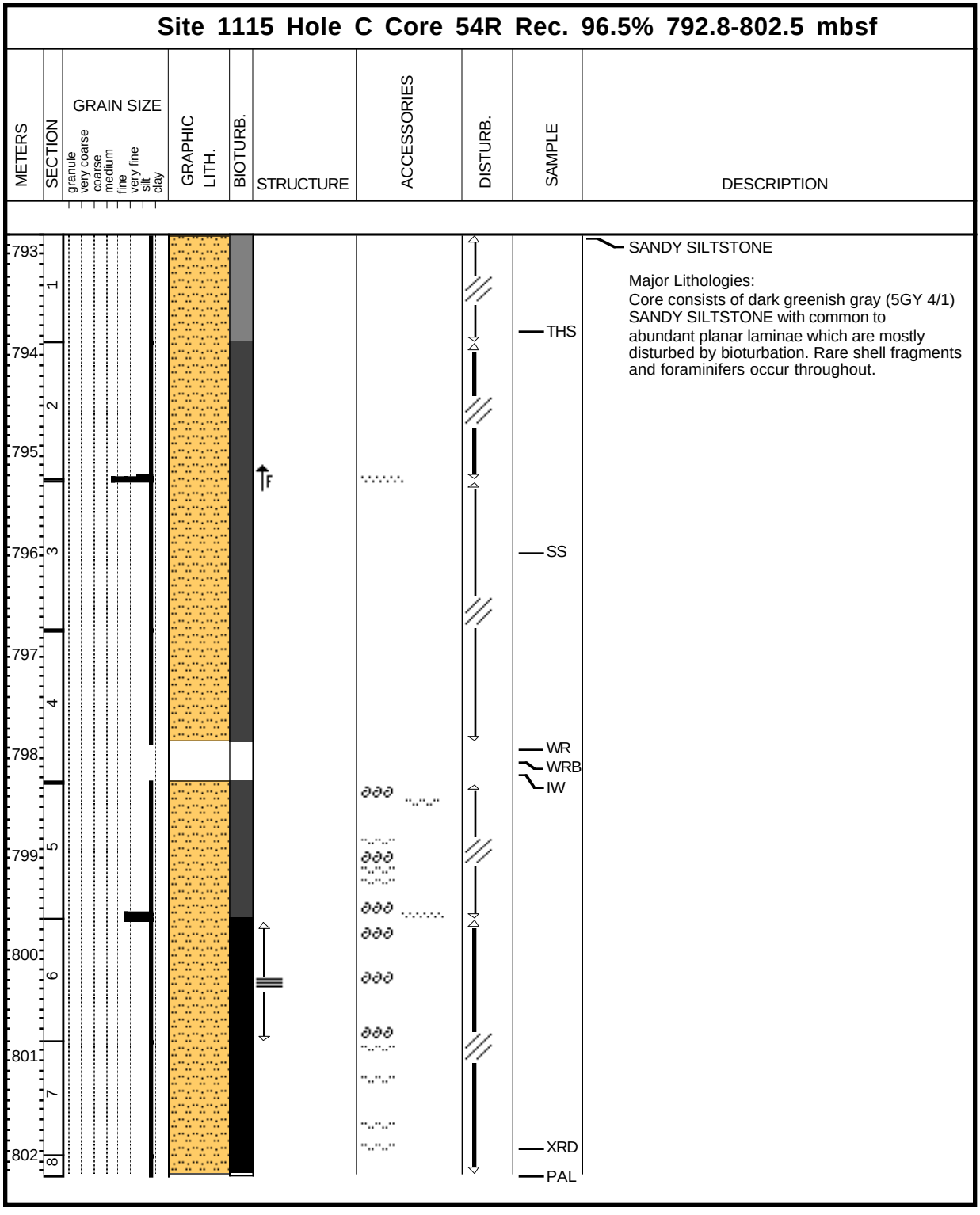
Core Photo


Site 1115 Hole C Core 52R Rec. 97.2% 773.6-783.2 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
774
775
776
777
778
779
780
781
782
1
2
3
4
5
6
7
8
IW
THS
SS
SS
PAL
SANDY SILTSTONE
Major Lithologies:
Dark greenish gray (5 GY 4/1) calcareous SANDY SILTSTONE with common shell fragments. Planar silty laminae occur throughout. Bioturbation is common to abundant.

Core Photo


Site 1115 Hole C Core 53R Rec. 80.5% 783.2-792.8 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
784
785
786
787
788
789
790
1
2
3
4
5
6
F
F
SS
XRD
THS
SANDY SILTSTONE and SILTY SANDSTONE
Major Lithologies:
Sections 1,2, 4, 5, and 6 are characterized by dark greenish gray (5GY 4/1) SANDY SILTSTONE with common planar laminae. Rip up clasts occur in Section 1. Section 3 contains SILTY SANDSTONE. Rare scattered fragments of shells and foraminifers occur. Bioturbation is common to abundant.

Core Photo


Site 1115 Hole C Core 54R Rec. 96.5% 792.8-802.5 mbsf
METERS
SECTION
GRAIN SIZE
granule
very coarse
coarse
medium
fine
very fine
silt
clay
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
793
794
795
796
797
798
799
800
801
802
1
2
3
4
5
6
7
8
F
THS
SS
WR
WRB
IW
XRD
PAL
SANDY SILTSTONE
Major Lithologies:
Core consists of dark greenish gray (5GY 4/1) SANDY SILTSTONE with common to abundant planar laminae which are mostly disturbed by bioturbation. Rare shell fragments and foraminifers occur throughout.

				Size			Siliciclastic and volcaniclastic composition																									Biogenic composition										
Core, section, interval (cm)	Depth (mbsf)	Described by	Lithology (dominant/minor)	Sand	Silt	Clay	Quartz	Feldspar	Plagioclase	Muscovite	Biotite	Glauconite	Amphibole	Pyroxene	Rock fragments (sedimentary)	Rock fragments (metamorphic)	Rock fragments (basaltic)	Volcanic glass	Volcanic glass (brown)	Volcanic glass (colorless)	Accessory minerals	Carbonate	Calcite	Dolomite	Opaque (oxide)	Opaque (sulfide)	Fe-oxides	Clinoptilolite	Phillipsite	Other	Clay	Nannofossils	Foraminifers	Diatoms	Radiolarians	Sponge spicules	Shell debris	Organic material	Fish debris	Bioclasts	Unidentified/other	Comments
180-1115A-																																										
1H-1, 10	0.10	LAC	D	c	r	a	r	r												c	r											a	c		r	r				c		Bioclast-bearing nannofossil ooze
1H-3, 40	1.90	LAC	D	c	c	a	r	r		r								r														a	c			r				c		Nannofossil ooze
1H-4, 92	3.92	AR	M	c	a	r	c	r									r	a														c	r									Volcanic ash
1H-4, 95.5	3.955	AR	M	a	c	r	c	r									r		a													c	r									Glass-rich fine-grained sand
1H-4, 97.5	3.975	LAC	M	a	c		r	r											a		r											r										Volcanic ash
1H-4, 100.5	4.005	LAC	M	c	c		r	r		r									a													r										Volcanic ash
1H-4, 102	4.02	TS	M	a	c		r		r										a													c										Volcanic ash
1H-4, 103	4.03	TS	M	a	c		r	r											a													a	r									Volcanic ash
1H-4, 105	4.05	LAC	M	a	a		r	r											a													r										Volcanic ash
1H-CC, 3	4.23	LAC	D	c	c	a	r	r											c													a	c			r				r		Nannofossil ooze
1H-CC, 10	4.30	TS	D	c	c	c	r	r											r				r								c	a	c			r						Foraminifer-rich silty clay, nannofossil ooze
180-1115B-																																										
1H-1, 123	1.23	TS	D	r	c	c	r	r											r				r								c		r			r						Nannofossil ooze
1H-3, 128	4.28	AR	M	c	a	c	r	r			r								c				r									a	r		r							Calcareous silt
1H-4, 18	4.68	AR	M	c	a	c	c	r									r		a				r									r	r									Volcanic ash
2H-1, 10	7.30	AR	D	c	c	a	r	r											a				r								a	a	c			c						Nannofossil ooze, silt bearing
2H-1, 20	7.40	AR	M	a	c	r	r	r									r		a													r	r									Volcanic ash
2H-2, 10	8.80	TS	M	c	c	r	r	r											a				r								a	r	r			r						Volcanic ash
2H-3, 21	10.41	AR	M	c	a	r	r	r									r		a													r										Volcanic ash
2H-4, 19	11.89	TS	M	c	c	r	r	r											a												a	r	r									Volcanic ash
2H-4, 22	11.92	TS	M	a	c	r	r	r											a				r								r		r									Volcanic ash
3H-1, 54	17.24	AR	D	r	c	a	r												r				r								a	a	c		r	r						Calcareous silty clay
4H-3, 48	29.68	AR	M	r	c	a	r				r								r				r								a	a	c		r	r						Silty clay
4H-5, 54	32.74	AR	M	c	c	a	r				r								r		r	r										c	c		r	r						Silt
4H-6, 54	34.24	AR	M	c	a		c		r		r						r	c			r					r						r	r									Silt with glass
4H-6, 55	34.25	AR	M	a	c		r	r			r								a													r	c			r						Volcanic ash
6H-7, 40	54.60	AR	M	r	a	c	r	r											a				r								a											Calcareous silt, glass rich
7H-4, 51	59.71	TS	M	r	c	a	r	r									r						r								c	a	c			r						Nannofossil-rich silty clay
7H-6, 22.5	62.425	AR	M	r	a	c	r		r								r		a				r									r	r									Glass-rich silt
8H-1, 59	64.79	TS	M	r	c	a	r	r										r			r		r								c	c	r					r				Calcareous clay
8H-1, 79	64.99	TS	M		c	a	r	r											r				r								c	a	c			r						Clay-rich nannofossil ooze
9H-4, 40	78.60	AR	M	c	c	c	r	r									r				r		r								c	c	c			r						Foraminifer-bearing nannofossil-rich silty clay
10H-3, 66	86.86	TS	D	r	c	c	r	r											r				c								c	a	r			r						Nannofossil-rich silty clay
10H-4, 52	88.22	AR	M	a	c		c	r									r		c	c																						Fine sand with glass
10H-4, 61	88.31	AR	M	r	c	a	c	r										a			r					r																Volcanic ash
11H-5, 75	99.45	TS	D	r	c	c	r	r			r								r		r		c								c	a	c			r						Nannofossil-rich silty clay
12H-1, 124	103.44	TS	M	r	c	c	r	r										r								a					c											Nannofossil-rich silty clay
12H-4, 83	107.53	TS	D	c	c	c	r	r											r				c								c	a	c			r						Nannofossil-rich silty clay
14H-3, 90	125.10	TS	D	r	c	a	r	r											r				r								c	a	r			r						Nannofossil-rich silty clay
15H-4, 70	135.90	TS	D	r	c	a	r	r									r						r								c	a	c			r						Nannofossil-rich silty clay
16H-4, 100	145.70	AR	D	r	c	a	r										r	r					r								a	a	r									Nannofossil silty clay
17H-4, 62	154.82	AR	D	r	c	a	r	r			r							r			r											a	r			r						Nannofossil silty clay
17H-6, 42	157.62	AR	M	c	a	r	r	r										a					r									r	r									Volcanic ash
18H-2, 46	161.16	AR	M	c	c	r	r	r			r						r	r			r											r	r									Volcaniclastic silt
18H-4, 60	164.30	AR	D		r	a	r	r																							a	a	r									Calcareous clay
19H-1, 65	169.35	AR	M	c	r	a	r	r			r										c										a	a	r									Nannofossil clay
19H-5, 80	175.50	AR	D	c	r	a	r	r			r										r										a	a	c									Nannofossil silty clay
19H-6, 115	177.35	AR	M	c	a	r	c	r			c						a				r											r	r									Glass-rich volcaniclastic silt
20H-5, 20	184.40	LAC	M	c	r	c	r		c		r		r	r				r														r								r		Volcaniclastic sand
21H-3, 67	191.37	LAC	D	r	c	a	r	r										r			r											a	r			r				r		Silty clay
21H-5, 24	193.94	LAC	D	c	r	c	r		r		r		r													r						a								r		Silty clay
22H-1, 77	197.97	LAC	M	a	r	c	r		c		r		r	r			r	a								r						a										Volcaniclastic sand
22H-5, 67	203.81	TS	D	r	c	a	r	r			r							r			r		r								c	a	r			r						Nannofossil-rich silty clay
23H-1, 70	207.40	TS	D	r	c	a	r	r			r							r					r								c	a	r			r						Calcareous Clay
23H-5, 10	212.80	LAC	M	a	c	r	r	r			r		r					a														c	r									Volcaniclastic sand

Core, section, interval (cm)	Depth (mbsf)	Described by	Lithology (dominant/minor)	Size: Sand	Size: Silt	Size: Clay	Quartz	Feldspar	Plagioclase	Muscovite	Biotite	Glauconite	Amphibole	Pyroxene	Rock fragments (sedimentary)	Rock fragments (metamorphic)	Rock fragments (basaltic)	Volcanic glass	Volcanic glass (brown)	Volcanic glass (colorless)	Accessory minerals	Carbonate	Calcite	Dolomite	Opaque (oxide)	Opaque (sulfide)	Fe-oxides	Clinoptilolite	Phillipsite	Other	Clay	Nannofossils	Foraminifers	Diatoms	Radiolarians	Sponge spicules	Shell debris	Organic material	Fish debris	Bioclasts	Unidentified/other	Comments
24X-2, 40	218.10	LAC	D	r	c	a	r	r			r							r			r					r						a	r			r				r		Nannofossil-rich silty clay
24X-6, 105	224.55	LAC	M	a	r	c	r		c		c		c	c				r														c										Volcaniclastic sand
25X-2, 67	227.97	TS	D	r	c	a	r	r			r							r			r		r								c	a	r			r						Nannofossil-rich silty clay
26X-1, 43	235.83	TS	D	r	c	a	r	r			r							r			r		c								c	a	r			r						Calcareous nannofossil-rich silty clay
26X-3, 109	239.49	TS	M	r	a	c	r	r			r							a			r										c		r									Volcanic ash
26X-3, 112	239.52	TS	M	a	c	r	c		a		r							r			c		r									r										Medium-grained volcaniclastic sandstone
26X-4, 36	240.26	TS	D	r	c	c	r	r			r							r			r		c								c	a	r			r						Calcareous nannofossil-rich silty clay
27X-1, 134	246.34	TS	M	r	c	c	r	r			r							a			r		r								c	r										Volcanic ash
27X-3, 80	248.80	TS	D	r	c	c	r	r			r							r			r										c	a	r									Nannofossil-rich calcareous silty clay
28X-1, 80	255.40	TS	D	r	c	a	r	r			r							r			r		c								c	a	r			r						Nannofossil-rich calcareous silty clay
29X-1, 26	264.56	AR	M	c	c	a	r	r			r							r			r										a	a	r									Volcaniclastic silty clay
31X-1, 70	284.20	AR	D	r	a	c	r	r			r						r	r			r		r									a	r									Clay-rich silt
31X-6, 23	291.23	AR	M	c	a	c	r	r			r							r			c											c	r									Volcaniclastic sandy silt
180-1115C-																																										
2R-2, 75	295.05	AR	D	r	a	c	r	r			r							r													a	a	r			r		r				Clay-rich silt
3R-1, 15	302.65	AR	D	r	c	a	r		r		r							r								r					a	a	c			r						Silty clay
3R-2, 25	304.25	AR	D	c	a	c	r		r								r	r													r	c	c		r	r			r			Volcaniclastic silt
4R-2, 10	313.71	AR	D	r	a	c	r		r								c				r										a	r	r			r						Clay-rich silt
4R-2, 110	314.71	AR	D	r	c	a	r	r			r							r								r					a	c	r			r			r			Silty claystone
4R-3, 5	315.16	AR	M	r	a		r		r		r						r	a					c																			Volcanic ash
5R-1, 112	322.82	AR	D	r	c	a	r				r												r								a	a	r									Silty claystone
6R-2, 17	333.07	TS	M	r	a	c	r	r			r										r		a								c	r	r									Calcareous silt
6R-5, 112	338.52	TS	M	r	a	c	r	r			r							r			r		a								c	r										Calcareous siltstone
7R-2, 40	342.86	TS	D	r	c	a	r	r			r							r			r		r								c	a	r			r						Calcareous silty clay
8R-3, 83	353.77	TS	D	r	c	a	r	r			r							r			r		r								c	a	r			r						Calcareous silty clay
9R-2, 30	361.39	TS	D	r	c	a	r	r			r							r			r		r								c	a	r			r						Calcareous silty clay
9R-7, 7	367.94	TS	M	r	c	c	c	c			r							a					r								c	r										Volcanic ash
10R-1, 47	369.97	AR	D	r	c	a	r	r													r		r								a	a	c			r		r	r			Silty clay
10R-2, 41	371.41	TS	D	r	c	c	r	r			r							r			r		r								c	a	c			r						Calcareous silty clay
11R-1, 80	379.90	AR	D	r	c	a	r	r													r		r								a	a	r			r			r			Silty clay with nannofossils
11R-5, 70	385.62	AR	M	c	a	c	r		c		r							a			r											r	r			r						Volcanic ash
12R-5, 80	395.20	AR	D	c	a		c		c									c			r		r									r	r			r			r			Sandy silt
13R-2, 30	399.90	AR	D		a	c	r	r			r										r		r								a	a	r									Clay-rich silt
15R-6, 65	425.45	AR	D	a	c	r	c		c	r	r						r	c			c		r								r	c	c									Fine-grained sand
21R-1, 10	476.00	AR	M	a	c	r	c		r		c							r			r		c									a	c									Calcareous fine-grained sand
21R-CC, 18	480.26	AR	D	a	c	r	c		r		c						r	r					r								a	c	c									Calcareous fine-grained sand
22R-1, 32	484.82	TS	D	c	c	c	c	c			r						r						r								r	r	r									Silty sandstone
22R-6, 42	491.18	TS	D	c	c	r	r		c		c						r				r		c								r	r	r									Calcareous silty sandstone
23R-1, 23	494.33	TS	D	r	a	r	r	r			r										r		c								r	r	r			r						Calcareous siltstone
24R-1, 57	504.37	TS	D	a	c		r		c		c						r				r											r	r									Fine-grained volcaniclastic sandstone
25R-1, 44	513.84	TS	M	a	c	r	c	c			r						r				r		r								r											Fine- to medium-grained sandstone
25R-1, 74	514.14	TS	M	c	c	c	c	c			r										r					c					c											Fine-grained sandstone
25R-2, 40	515.30	TS	D	c	c	r	r	r			r						c	c			r																					Fine-grained sandstone
25R-2, 100	515.90	TS	D	a	c	r	c	c			r						c				r		r			r					r	r	r									Medium-grained sandstone
25R-CC, 10	516.29	TS	M	a	c	r	c	c			r						r				r					r																Coarse-grained sandstone
27R-1, 30	532.90	TS	D	c	c	c	c	c			r						r				r		r								c											Silty sandstone
28R-1, 60	542.80	TS	D	a	r		c	c	c		r						c				r					r					r		r									Medium-grained sandstone
29R-1, 14.5	551.945	TS	M	a	c	r	r	c			r						a	a			r																					Fine- to medium-grained sandstone
29R-2, 14.5	553.395	TS	M	c	c	c	r	r			r						a				r												r									Fine-grained sandstone
34R-3, 33	603.11	AR	D	a	c	r	c		r								r		r		c												r									Volcaniclastic sand
37R-CC, 14	628.94	LAC	D	c	a	r	c	c													r		r			r						c	r							r		Sandy siltstone

Core, section, interval (cm)	Depth (mbsf)	Described by	Lithology (dominant/minor)	Size: Sand	Size: Silt	Size: Clay	Quartz	Feldspar	Plagioclase	Muscovite	Biotite	Glauconite	Amphibole	Pyroxene	Rock fragments (sedimentary)	Rock fragments (metamorphic)	Rock fragments (basaltic)	Volcanic glass	Volcanic glass (brown)	Volcanic glass (colorless)	Accessory minerals	Carbonate	Calcite	Dolomite	Opaque (oxide)	Opaque (sulfide)	Fe-oxides	Clinoptilolite	Phillipsite	Other	Clay	Nannofossils	Foraminifers	Diatoms	Radiolarians	Sponge spicules	Shell debris	Organic material	Fish debris	Bioclasts	Unidentified/other	Comments
39R-CC, 5	648.15	LAC	D	c	c	r	c	c			r										r		r			r						r	r									Silty sandstone
40R-4, 30	662.60	TS	D	c	c	c	c	c	c		r						r				r		r								c	c										Silty sandstone
41R-4, 50	672.36	TS	D	c	c	c	c	c			r						r				r		r								c	r	r									Sandy siltstone
42R-2, 20	678.09	LAC	M	r	a	c	c	c													r					r					c	r										Clayey siltstone
42R-4, 91	681.80	LAC	D	c	a	r	c	c			r						r				r		r			r						c	r									Sandy siltstone
43R-2, 32	688.62	TS	D	c	c	c	c	c			r						r				r		r			r					c	a	r									Sandy siltstone
44R-2, 114	698.72	LAC	D	c	a	r	c	c					r													r																Calcareous sandy siltstone
44R-3, 30	699.38	LAC	D	c	a	r	c	r			r										r		r																			Calcareous sandy siltstone
45R-2, 65	707.99	TS	D	r	c	c	c	c			r						r						r			r					c	c	r									Siltstone
47R-7, 40	734.15	TS	D	r	c	c	c	c			r										r		r								c	a										Siltstone
49R-2, 20	746.19	TS	D	r	a	c	c	c			r										r		r			r					c	c										Siltstone
50R-4, 110	759.09	TS	D	r	c	c	r	r			r						r				r		r								c	r	r									Siltstone
52R-4, 60	778.25	TS	D	c	c	c	c	c			r										r		r								c	c										Sandy siltstone
52R-6, 10	780.63	TS	D	r	a	c	c	c									c				r		r			r					c	c	r									Calcareous siltstone
53R-2, 40	785.10	TS	D	r	c	c	r	r									r				r		r								c	a	r			r						Sandy siltstone
54R-3, 70	795.94	TS	D	r	a	c	c	c									c				r		r			r					c	c	r									Calcareous siltstone

Note: a = abundant (51%–100%); c = common (11%–50%); r = rare (1%–10%).

Thin-section number	Core, section, interval (cm)	Depth (mbsf)	Described by	Lithology (dominant/minor)	Granule	Size: Sand	Size: Silt	Size: Clay	Minerals: **Minerals (%)**	Minerals: Quartz	Minerals: Strained	Minerals: Feldspar	Minerals: Multiple twins	Minerals: Single/untwinned	Minerals: Mica	Minerals: Biotite	Minerals: Muscovite	Minerals: Carbonate	Minerals: Chlorite	Minerals: Accessory minerals	Minerals: Clinopyroxene	Minerals: Amphibole	Minerals: Opaques	Rock fragments: **Rock fragments (%)**	Rock fragments: Plutonic	Rock fragments: Volcanic	Rock fragments: Rhyolitic/dacitic	Rock fragments: Vitric	Rock fragments: Andesitic/basaltic	Rock fragments: Dolerite	Rock fragments: Sedimentary	Rock fragments: Limestone	Rock fragments: Siltstone	Rock fragments: Metamorphic	Rock fragments: Schist	Rock fragments: Polycrystalline quartz of uncertain origin	Bioclasts: **Matrix/cement (%)**	Bioclasts: Bioclasts (%)	Bioclasts: Foraminifers	Bioclasts: Benthic	Bioclasts: Planktonic	Bioclasts: Shell debris	Bioclasts: Algae	Bioclasts: Echinoderms	Bioclasts: Bryozoa/corals	Bioclasts: Carbonaceous detritus	Sedimentary rock name	Comments
	180-1115B-																																															
158	28X-CC, 20-23	256.75	TS/AR	D		R	C	A	10	R	a	C	c	c	C	a	c	C	R	R		a	R	1		A		a								88	1	A		a					Calcareous siltstone	Subrounded porphyritic basalt fragments containing plagioclase and rare hornblende phenocrysts, micritic claystone matix
159	30X-CC, 39-40	275.36	TS/AR	D		R	C	A	15	R	a	C	c	c	C	a		C	R	R		a		1		A	c	r	c							83	1	A		a					Calcareous silty claystone	Subrounded grains of porphyritic basalt with angular plagioclase and hornblende phenocrysts, fresh glass, burrows, micritic matix
	180-1115C-																																															
161	2R-1, 17-19	292.97	TS/AR	D		R	C	A	15	R	a	C	c	c	C	a		C	R	R	r	a		1		A	r	c	c							80	4	A		a					Calcareous silty claystone	Porphyritic basalt and dacite with plagioclase and hornblende phenocrysts, pumice (hornblende phenocrysts), burrows, pyrite-filled foraminifer tests, micritic matrix, shells partly replaced by calcite spar
162	5R-1, 40-42	322.13	TS/AR	D		R	C	A	25	R	a	C	c	c	A	a	c	C	R	R		a		10		A		a	c		R		a			61	4	A		a					Calcareous silty claystone	Common angular to subrounded basalt and pumice fragments, burrows, highly recrystallized and pyrite-filled foraminifer tests, micritic matrix, abundant mica
163	6R-2, 17-19	333.07	TS/AR	M		C	A	C	30	C	a	C	c	c	C	a	r	C	R	C		a		40		A		a								30									Fine-grained sandstone	Abundant subangular to angular fresh vesicular colorless glass shards, burrows, matrix is micro spar sized implying some recrystallization of micritic matrix, common chloritized basalt fragments
164	6R-5, 114-116	338.54	TS/AR	D		C	C	C	39	C	a	C	c	c	C	a	r	C	R	R		a		15		A	c		c							45	1	A		a				R	Calcareous silty claystone	Fine-grained sandstone at base, calcareous claystone matrix, calcite rhombs, pyrite in foraminifers
165	7R-2, 33-34	342.79	TS/AR	D		R	C	A	20	R	a	C	c	c	C	a	r	R	R	R		a	R	20		A	r	a	r							58	2	A		a					Calcareous silty claystone	Angular common fresh glass shards, pyrite-filled foraminifers
166	10R-1, 5-7	369.55	TS/AR	D		C	C	C	20	R	a	A	a	c	C	a		R		R	r	a	R	20		A		a	r					R	a	59	1	A		a					Calcareous silty claystone	Fresh angular detrital mineral grains, zoned plagioclase some of which is altered, rare sand-size and abundant silt-sized biotite grains, pumice fragments with hornblende phenocrysts and common silt-sized glass shards

Thin-section number	Core, section, interval (cm)	Depth (mbsf)	Described by	Lithology (dominant/minor)	Granule	Size			Minerals															Rock fragments													Bioclasts										Sedimentary rock name	Comments
						Sand	Silt	Clay	**Minerals (%)**	Quartz	Strained	Feldspar	Multiple twins	Single/untwinned	Mica	Biotite	Muscovite	Carbonate	Chlorite	Accessory minerals	Clinopyroxene	Amphibole	Opaques	**Rock fragments (%)**	Plutonic	Volcanic	Rhyolitic/dacitic	Vitric	Andesitic/basaltic	Dolerite	Sedimentary	Limestone	Siltstone	Metamorphic	Schist	Polycrystalline quartz of uncertain origin	**Matrix/cement (%)**	Bioclasts (%)	Foraminifers	Benthic	Planktonic	Shell debris	Algae	Echinoderms	Bryozoa/corals	Carbonaceous detritus		
167	11R-4, 57-58	383.99	TS/AR	D		C	C	A	20	R	a	A	a	c	C	a		R		R		a	R	20		A		a	r								59	1	A		a						Calcareous silty claystone	Fresh angular detrital mineral grains, zoned plagioclase, rare sand-size and abundant silt-size biotite grains, pumice fragments with hornblende phenocrysts, silt-size glass shards
168	12R-4, 144-148	394.34	TS/AR	D		C	C	A	30	R	a	A	a	c	C	a		R		R		a	R	10		A	r	a	c								58	2	A		a						Claystone	Angular zoned plagioclase, subrounded pumice, acidic volcanics (phenocrysts of plagioclase and hornblende), single amphibolite clast present, silt-size glass shards, pyrite-filled foraminifers, silty claystone matrix with common biotite, green chloritized glass
169	12R-5, 50-53	394.90	TS/AR	D		C	C	A	20	R	a	A	a	c	C	a		R		R		a	R	10		A	r	a									68	2	A		a						Silty claystone	Common sand-size grains, zoned plagioclase, subrounded pumice and acidic volcanics with phenocrysts of plagioclase and hornblende, silt-size glass shards, pyrite-filled foraminifers, silty clay matrix with common biotite
170	13R-4, 140-143	403.55	TS/AR	D		C	C	A	15	R	a	A	a	c	C	a		R		R		a	R	5		A	r	a	r								78	2	A		a	R					Silty claystone	Common detrital sand-size grains, zoned plagioclase, subrounded pumice and acidic volcanics with phenocrysts (plagioclase and hornblende), silt-size glass shards, pyrite-filled foraminifers, silty claystone matrix with common biotite, possible intrusive rock fragments
171	14R-2, 68-70	409.82	TS/AR	D		C	C	A	20	R	a	A	a	c	C	a		R		R		a	R	40		A	r	a	r					R		a	38	2	A		a	R					Sandy silty claystone	Common sand-size grains, zoned plagioclase, common subrounded pumice and rare basalt and acidic volcanics (both contain phenocrysts of plagioclase and hornblende), silt-size glass shards, pyrite-filled foraminifers, silty claystone matrix with common biotite

Thin-section number	Core, section, interval (cm)	Depth (mbsf)	Described by	Lithology (dominant/minor)	Granule	Size			Minerals															Rock fragments													Bioclasts										Sedimentary rock name	Comments
						Sand	Silt	Clay	**Minerals (%)**	Quartz	Strained	Feldspar	Multiple twins	Single/untwinned	Mica	Biotite	Muscovite	Carbonate	Chlorite	Accessory minerals	Clinopyroxene	Amphibole	Opaques	**Rock fragments (%)**	Plutonic	Volcanic	Rhyolitic/dacitic	Vitric	Andesitic/basaltic	Dolerite	Sedimentary	Limestone	Siltstone	Metamorphic	Schist	Polycrystalline quartz of uncertain origin	**Matrix/cement (%)**	Bioclasts (%)	Foraminifers	Benthic	Planktonic	Shell debris	Algae	Echinoderms	Bryozoa/corals	Carbonaceous detritus		
172	15R-3, 79-83	421.09	TS/AR	M		A	R	R	10	R	a	A	a	c	R	a		A		R		a	R	20		A	a	r	r		R		a	R		a	10	60	A	a	a	R	R		R		Foraminifer packstone	Abundant bioclasts, rounded to well-rounded porphyritic acidic volcanic fragments containing phenocrysts of feldspar and rare hornblende, rare basalt clasts, angular to subangular mineral grains, sparry calcite cement, aphyric basalts
173	16R-2, 4-7	427.73	TS/AR	M		A	R	R	15	R	a	A	a	c	R	a		A		R		a	R	25		A	a	r	r								10	50	A	a	a		R		R		Mixed siltstone	Abundant bioclasts, rounded to well-rounded porphyritic acidic volcanic fragments containing phenocrysts of feldspar and rare hornblende, rare basalt clasts, angular to subangular mineral grains, microspar calcite cement, minor palagonite
174	21R-3, 91-93	477.59	TS/AR	D		C	A	C	30	R	a	A	a	c	R	a		A		R		a		10		A	c		a					R		a	30	30	A	a	r	C					Mixed sandy silty claystone	Common bioclasts, rare rounded to well-rounded basalt clasts, angular to subangular mineral grains, micritic calcite cement, high benthic/planktonic foraminifer ratio implies shallow water
175	19R-CC, 8-10	456.10	TS/AR	M		A	C	C	25	R	a	A	a	c	C	a		A	R	R		a	R	15		A	c		c		R		a				20	40	A	a	r						Mixed fine-grained sandstone	Common bioclasts, rare rounded to well-rounded basalt clasts, angular to subangular detrital mineral grains, micritic calcite cement, pyrite cubes and pyrite-filled foraminifers, common angular acidic volcanic grains, rare green chloritic grains
176	22R-3, 104-105	487.80	TS/AR	D		R	C	C	30	R	a	A	a	c	C	a		A		R		a	R	10		A			a								45	15	A	c	c	C	R				Sandy silty claystone	Common bioclasts, rare rounded to well-rounded chloritized basalt clasts, fresh brown glass, angular to subangular detrital mineral grains, micritic calcite cement, pyrite cubes and pyrite-filled foraminifers
177	23R-1, 93-94	495.03	TS/AR	D		R	C	C	30	R	a	A	a	c	A	a		R	R	R		a		10		A			a								50	10	A	c	c	R		R			Sandy silty claystone	Rare bioclasts, rare rounded to well-rounded chloritized basalt clasts, fresh brown glass, angular to subangular detrital mineral grains

Thin-section number	Core, section, interval (cm)	Depth (mbsf)	Described by	Lithology (dominant/minor)	Granule	Sand	Silt	Clay	Minerals (%)	Quartz	Strained	Feldspar	Multiple twins	Single/untwinned	Mica	Biotite	Muscovite	Carbonate	Chlorite	Accessory minerals	Clinopyroxene	Amphibole	Opaques	Rock fragments (%)	Plutonic	Volcanic	Rhyolitic/dacitic	Vitric	Andesitic/basaltic	Dolerite	Sedimentary	Limestone	Siltstone	Metamorphic	Schist	Polycrystalline quartz of uncertain origin	Matrix/cement (%)	Bioclasts (%)	Foraminifers	Benthic	Planktonic	Shell debris	Algae	Echinoderms	Bryozoa/corals	Carbonaceous detritus	Sedimentary rock name	Comments
178	24R-3, 49-50	507.29	TS/AR	D		C	C	R	50	C	a	A	c	c	C	a			R	R		a		2		R		a	c		A		a				47	1	A	r	a	R	R				Fine-grained sandstone	Angular to subangular detrital minerals grains, rare rounded siltstone, chloritized basalt fragments, fresh brown glass micritic and chloritic grains, rare microcline
179	25R-2, 56-57	515.46	TS/AR	D		C	C	A	40	R	a	A	c	c	C	a			R	R		a		15	R	A		c	c								45										Sandy silty claystone	Angular to subangular detrital mineral grains, rounded chloritized basalt fragments and angular fresh brown glass, rare microcline, large altered plagioclase
180	26R-1, 8-9	523.08	TS/AR	M		C	R	A	30	R	a	A	c	c	R	a			R	R	r	a	R	15	R	A	a		c					R	c		54	1	A	r	a						Fine-grained sandstone	Angular to subangular detrital mineral grains, subrounded to rounded rock fragments, porphyritic acidic volcanics containing plagioclase and hornblende phenocrysts, palagonite, coarse quartz and feldspar intergrowths
181	29R-1, 72-73	552.52	TS/AR	M		A	R	R	50	R	a	A	c	c	R	a			R	R	c	c		20	R	A	a		r					R		a	30										Medium-grained sandstone	Angular to subangular detrital mineral grains, rounded to well-rounded rock fragments porphyritic acidic volcanic grains containing plagioclase and hornblende phenocrysts sparry cement, altered basalts, microcline, blue chlorite, trachytic textures
182	29R-1, 82-83	552.62	TS/AR	D		C	C	C	30	C	a	A	c	c	R	a			R	R		a		15	R	A	c		c								55	1	A	a		R					Calcareous fine-grained sandstone	Angular to subangular detrital mineral grains, rounded to well-rounded rock fragments, chloritized basalt and acidic volcanic fragments
183	30R-CC, 10-12	566.83	TS/AR	M		A		C	20	R	a	A	c	c					R	C	a	r		60	R	A	c	c	a	r				R	a		19	1							A		Granule to pebble conglomerate	Very well rounded lithoclasts, subangular to subrounded detrital grains, zoned plagioclase, sparry calcite cement, spherulitic glass shards, brown palagonite, glauconite/chlorite, variolitic basalt fragments

Thin-section number	Core, section, interval (cm)	Depth (mbsf)	Described by	Lithology (dominant/minor)	Granule	Size	Minerals	Rock fragments	Bioclasts	Sedimentary rock name	Comments
						Sand Silt Clay	**Minerals (%)** Quartz Strained Feldspar Multiple twins Single/untwinned Mica Biotite Muscovite Carbonate Chlorite Accessory minerals Clinopyroxene Amphibole Opaques	**Rock fragments (%)** Plutonic Volcanic Rhyolitic/dacitic Vitric Andesitic/basaltic Dolerite Sedimentary Limestone Siltstone Metamorphic Schist Polycrystalline quartz of uncertain origin	**Matrix/cement (%)** Bioclasts (%) Foraminifers Benthic Planktonic Shell debris Algae Echinoderms Bryozoa/corals Carbonaceous detritus		
184	30R-CC, 16-19	566.89	TS/AR	D	C	C R	30 R a A c c C r a	20 R A c r c	50	Granule sandstone	Myrmekitic or perthitic fragments, glass spherulites of chalcedony, angular to rounded rock fragments, angular microcline, porphyritc dacites with phenocrysts of plagioclase, hornblende and rarely clinopyroxene, feldspathic rich siltstone matrix, sparry calcite cement
185	30R-5, 45-48	566.46	TS/AR	M		A R R	25 R a A a c R R R r c	15 A a c c R a	60	Fine-grained sandstone	Subangular to angular detrital mineral grains, subrounded rock fragments, micritic cement, chloritic altered volcanic grains
186	31R-1, 94-96	571.94	TS/AR	M		R A A	20 R a C c c C R a	2 A r a	77 1 A a	Calcareous siltstone	Micritic limestone
187	32R-1, 138-140	581.98	TS/AR	M		A R R	30 R a A a	40 A r a	30	Coarse-grained sandstone	Silty claystone, rounded rock fragments, subrounded to subangular mineral grains, chloritized basalt fragments with zoned plagioclase phenocrysts in a devitrified glass matrix, zoned clinopyroxene, sparry calcite cement, minor chalcedony
188	32R-3, 52-55	583.53	TS/AR	D		A R	30 R a c R a R A a	40 A r a	30	Coarse-grained sandstone	Silty claystone matrix, detrital minerals dominantly clinopyroxene, rounded rock fragments, subrounded to subangular detrital minerals, zoned plagioclase and clinopyroxene grains, palagonite, pyroxene phyric basalt
189	33R-3, 68-71	593.74	TS/AR	M		A C C	5 R a R c c A a r	5 A c a R a c R	60 30 A a r R R R	Boundstone	Micritic cement, recrystallized foraminifer tests, subangular to subrounded rock fragments, angular to subangular mineral grains
190	35R-1, 85-88	610.25	TS/AR	D		A R	8 R a R c c C a r r	8 A c c C a R a	14 70 A a c R R R R	Packstone	Rounded to well-rounded rock fragments, angular to subangular detrital mineral grains, micritic cement, porphryritic basalt with clinopyroxene and rarely olivine, zoned clinopyroxene

Thin-section number	Core, section, interval (cm)	Depth (mbsf)	Described by	Lithology (dominant/minor)	Granule	Size: Sand	Size: Silt	Size: Clay	Sedimentary rock name	Comments
191	35R-4, 102-105	614.69	TS/AR	M		R	C	A	Limestone (silty claystone)	Calcareous silty claystone matrix, laminae defined by more sand-rich layers
192	36R-2, 25-27	620.75	TS/AR	D		C	A	A	Siltstone	Clay- and silt-size material define a weak laminae, clayey matrix, iron oxide, sparry calcite, rare calcite/muscovite schists
193	40R-2, 105-107	660.35	TS/AR	D		A	C	C	Silty sandstone	Silty clay matrix, aligned carbonaceous detritus indicates laminae, bioturbation indicated by clay-silt-rich lenses, foraminifers filled with pyrite, rare calcite/mica schist grains
194	42R-3, 138-141	680.77	TS/AR	D		R	C	A	Silty claystone	Silty clay matrix, aligned carbonaceous detritus indicates laminae, bioturbation indicated by clay- and silt-rich lenses
195	43R-4, 111-115	692.14	TS/AR	D		A	C	C	Silty sandstone	Silty clay matrix, aligned carbonaceous detritus defines laminae, bioturbation indicated by clayey siltstone lenses, high ratio of mineral grains to lithics
196	44R-2, 113-115	698.71	TS/AR	D		C	C	C	Fine-grained sandstone	Normally graded sandstone interlaminated with more silty rich sandstone, angular to subangular detrital feldspars and quartz grains, abundant biotite in the more silt-rich layers, subrounded rock fragments
197	48R-2, 13-17	736.41	TS/AR	D		R	C	A	Silty claystone	Subangular to angular mineral grains, subrounded rock fragments, silty clay matrix, aligned carbonaceous detritus defines laminae, bioturbation indicated by clayey siltstone lenses

Thin-section number	**Minerals (%)**	Quartz	Strained	Feldspar	Multiple twins	Single/untwinned	Mica	Biotite	Muscovite	Carbonate	Chlorite	Accessory minerals	Clinopyroxene	Amphibole	Opaques
191	10	R	a	C	c	c						C	a	r	
192	40	C	a	C	c	c	R	a	r	R		C	a	c	
193	50	C	a	C	a	c	C	a		R	R	R	a	c	C
194	30	R	a	A	a	c	C	a		R	R	R	a		
195	50	C	a	C	a	c	C	a	r	R	R	R		a	R
196	50	C	a	A	c	c	C	a	r			R	c	c	R
197	30	C	a	A	c	a	C	a				R	c		R

Thin-section number	**Rock fragments (%)**	Plutonic	Volcanic	Rhyolitic/dacitic	Vitric	Andesitic/basaltic	Dolerite	Sedimentary	Limestone	Siltstone	Metamorphic	Schist	Polycrystalline quartz of uncertain origin
191	10		A	c	r	a							
192	10		A	c	c	c					R	a	
193	20		C	c	c	c					R	a	
194	10		C	c	c						R	a	
195	20		A	c	c	c					R	a	
196	10		A	c	c								
197	5		A		c	c							

Thin-section number	**Matrix/cement (%)**	Bioclasts (%)	Foraminifers	Benthic	Planktonic	Shell debris	Algae	Echinoderms	Bryozoa/corals	Carbonaceous detritus
191	75	5	A	a	r					
192	50									
193	25	5	R		a					A
194	55	5	C		a					A
195	25	5	R		a					A
196	39	1	A		a					
197	55	10	R		a					A

Thin-section number	Core, section, interval (cm)	Depth (mbsf)	Described by	Lithology (dominant/minor)	Granule	Size: Sand	Silt	Clay	Minerals: **Minerals (%)**	Quartz	Strained	Feldspar	Multiple twins	Single/untwinned	Mica	Biotite	Muscovite	Carbonate	Chlorite	Accessory minerals	Clinopyroxene	Amphibole	Opaques	Rock fragments: **Rock fragments (%)**	Plutonic	Volcanic	Rhyolitic/dacitic	Vitric	Andesitic/basaltic	Dolerite	Sedimentary	Limestone	Siltstone	Metamorphic	Schist	Polycrystalline quartz of uncertain origin	Bioclasts: **Matrix/cement (%)**	Bioclasts (%)	Foraminifers	Benthic	Planktonic	Shell debris	Algae	Echinoderms	Bryozoa/corals	Carbonaceous detritus	Sedimentary rock name	Comments
198	50R-1, 18-21	754.48	TS/AR	D		R	C	A	40	C	a	A	c	c	C	a				R	c		R	10		A		c	c								40	10	R		a					A	Silty claystone	Subangular to angular mineral grains, subrounded chloritic basalt fragments, silty clay matrix, aligned carbonaceous detritus defines laminae, bioturbation indicated by clayey siltstone lenses
199	51R-1, 119-120	765.09	TS/AR	D		R	C	A	45	C	a	A	c	c	C	a				R	c		R	5		A		c	c								45	5	C		a					C	Silty claystone	Subangular to angular mineral grains, subrounded rock fragments, silty clay matrix, weakly aligned carbonaceous detritus , bioturbation indicated by clayey siltstone lenses
200	52R-3, 61-71	776.76	TS/AR	D		R	C	A	45	C	a	A	c	c	C	a				R	c		R	5		A		c	c								45	5	C		a					C	Silty claystone	Subangular to angular mineral grains, subrounded rock fragments, silty clay matrix, weakly aligned carbonaceous detritus, bioturbation indicated by clayey siltstone lenses
201	53R-6, 42-45	790.35	TS/AR	D		R	C	A	45	C	a	A	c	c	C	a				R	c		R	5		A		c	c								45	5	C		a					C	Silty claystone	Subangular to angular mineral grains, subrounded rock fragments, silty clay matrix, weakly aligned carbonaceous detritus, bioturbation indicated by clayey siltstone lenses
202	54R-1, 94-98	793.74	TS/AR	D		R	C	A	45	C	a	A	c	c	C	a				R	c		R	5		A		c	c								45	5	R		a					A	Silty claystone	Subangular to angular mineral grains, subrounded rock fragments, silty clay matrix, weakly aligned carbonaceous detritus, bioturbation indicated by clayey siltstone-rich lenses

Note: A = abundant (51%–100%); C = common (11%–50%); R = rare (1%–10%); lower case letters indicate subcategories of the major constituents.