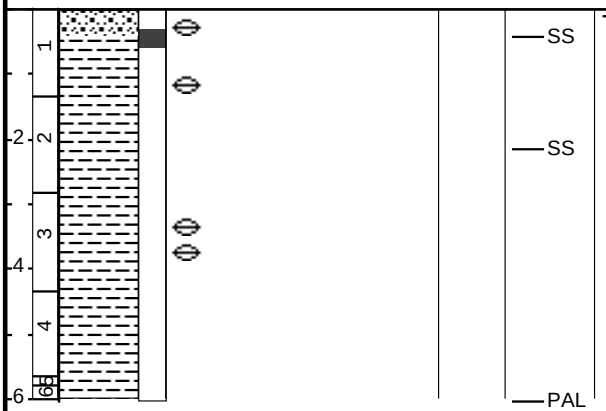
Core Photo

1119A-1H 0-6.0 mbsf

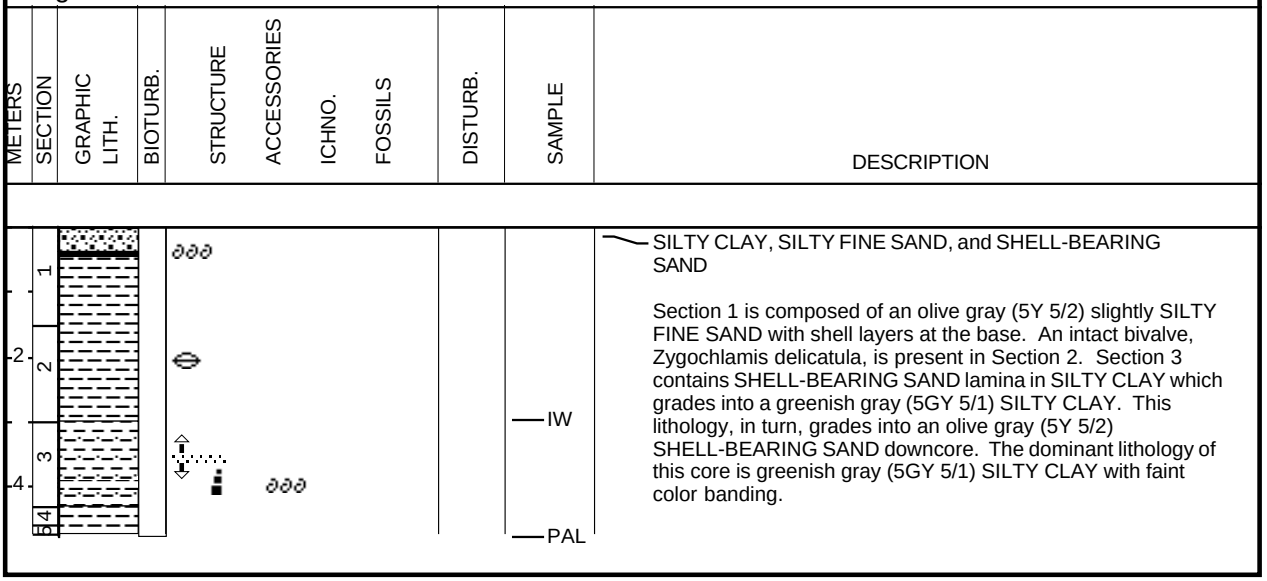
Leg 181 Site 1119 Hole A Core 1H



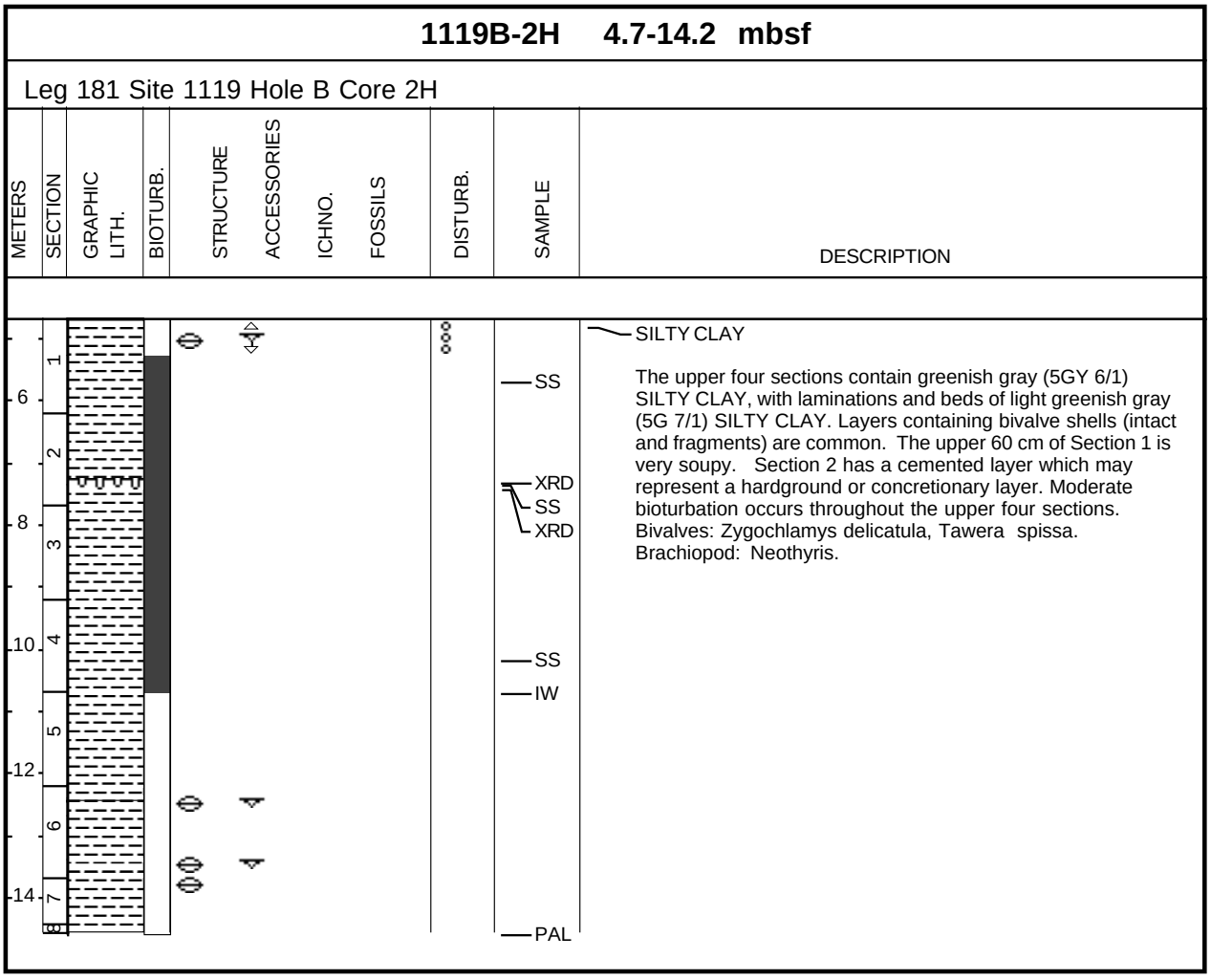
Core Photo

1119B-1H 0-4.7 mbsf

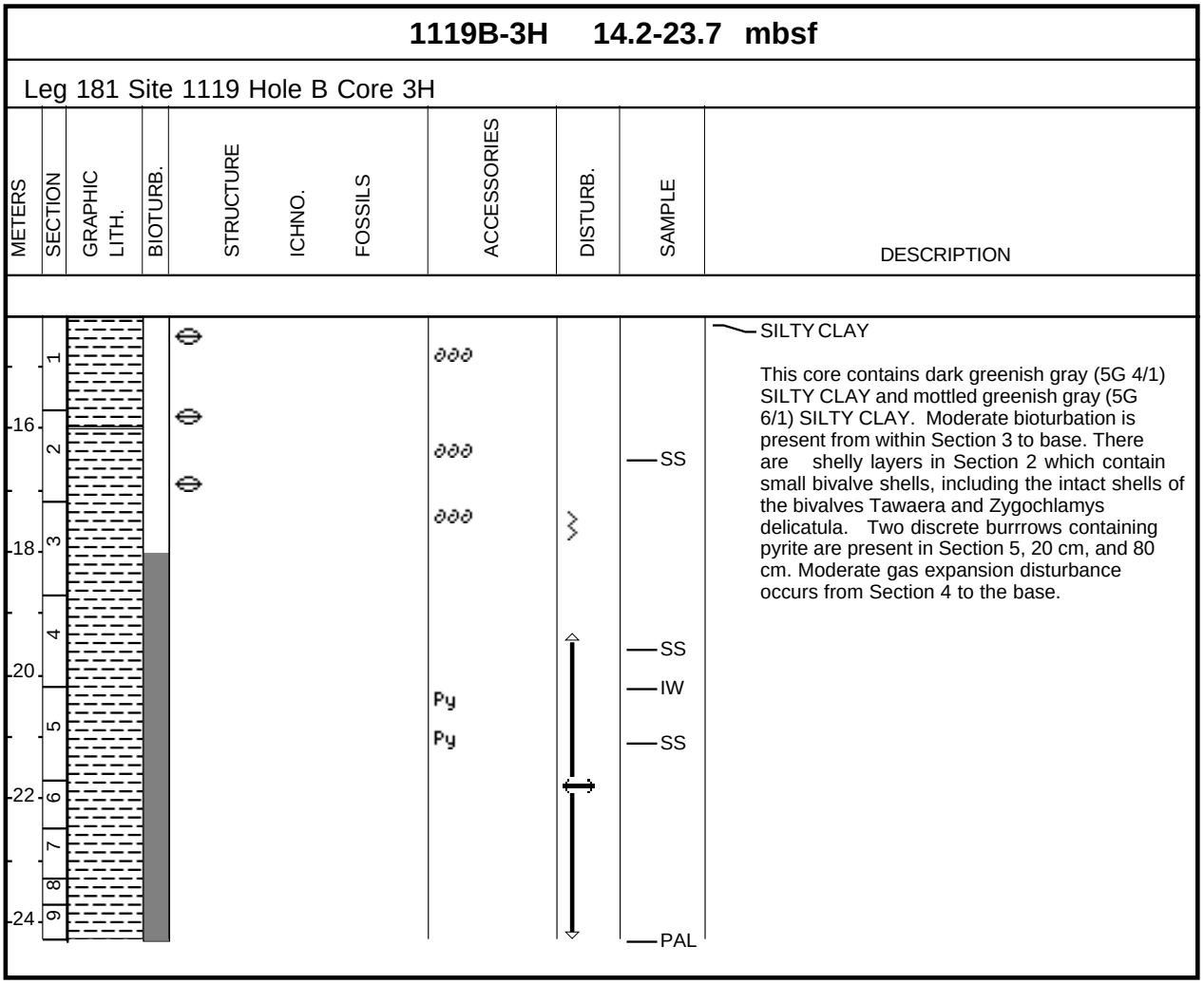
Leg 181 Site 1119 Hole B Core 1H



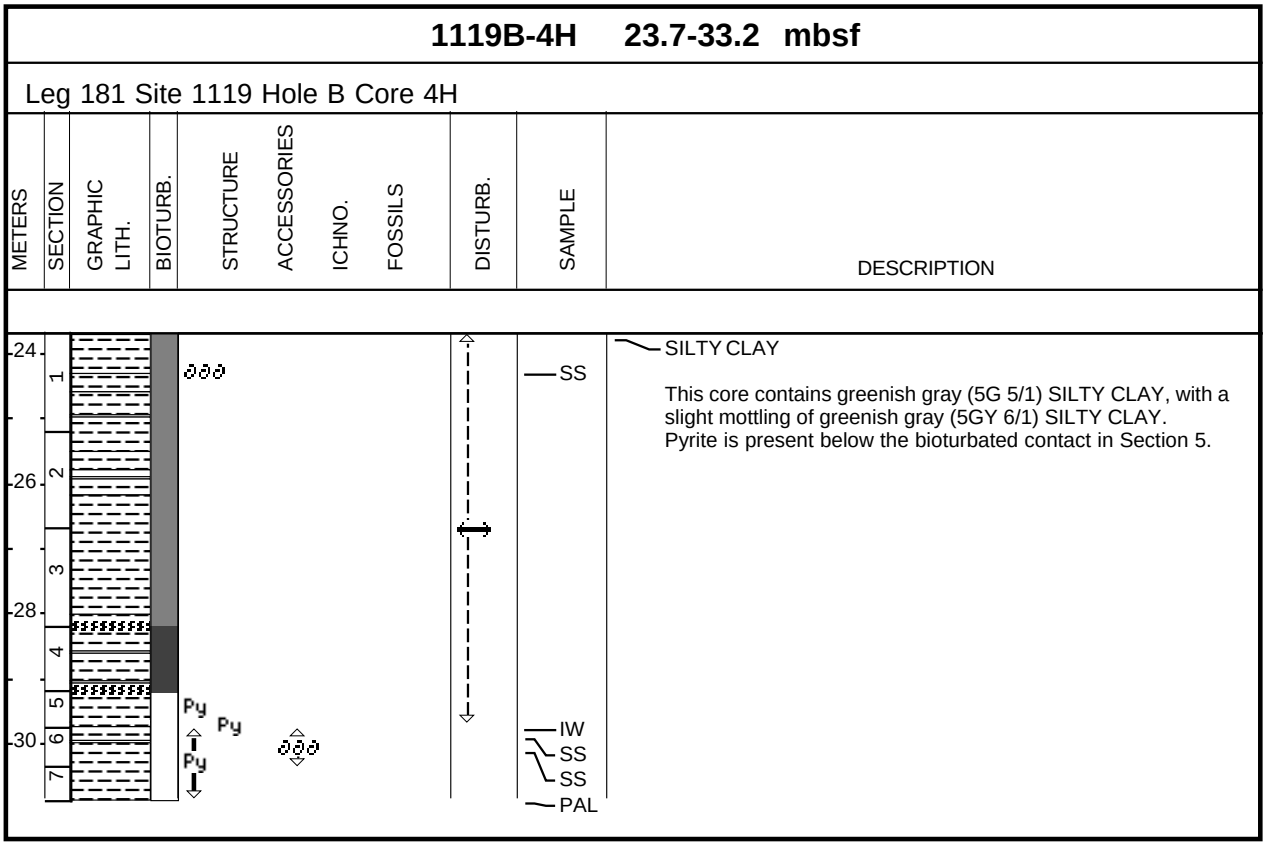
Core Photo


1119B-2H 4.7-14.2 mbsf
Leg 181 Site 1119 Hole B Core 2H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
6
8
10
12
14
1
2
3
4
5
6
7
CC
SS
XRD
SS
XRD
SS
IW
PAL
SILTY CLAY
The upper four sections contain greenish gray (5GY 6/1) SILTY CLAY, with laminations and beds of light greenish gray (5G 7/1) SILTY CLAY. Layers containing bivalve shells (intact and fragments) are common. The upper 60 cm of Section 1 is very soupy. Section 2 has a cemented layer which may represent a hardground or concretionary layer. Moderate bioturbation occurs throughout the upper four sections. Bivalves: Zygochlamys delicatula, Tawera spissa. Brachiopod: Neothyris.

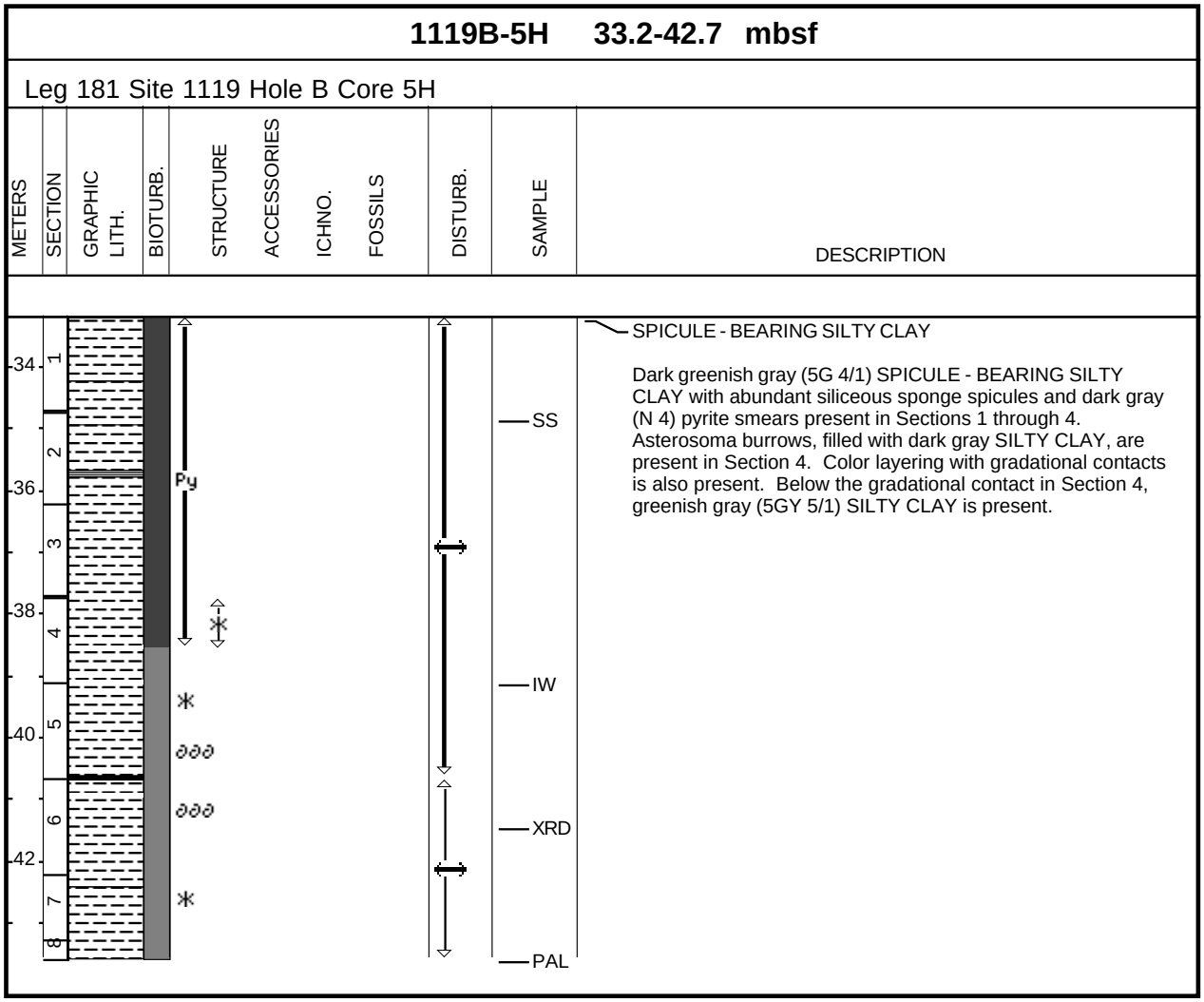
Core Photo


1119B-3H 14.2-23.7 mbsf
Leg 181 Site 1119 Hole B Core 3H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
16
18
20
22
24
1
2
3
4
5
6
7
8
9
Py
Py
SS
SS
IW
SS
PAL
SILTY CLAY
This core contains dark greenish gray (5G 4/1) SILTY CLAY and mottled greenish gray (5G 6/1) SILTY CLAY. Moderate bioturbation is present from within Section 3 to base. There are shelly layers in Section 2 which contain small bivalve shells, including the intact shells of the bivalves Tawaera and Zygochlamys delicatula. Two discrete burrrows containing pyrite are present in Section 5, 20 cm, and 80 cm. Moderate gas expansion disturbance occurs from Section 4 to the base.

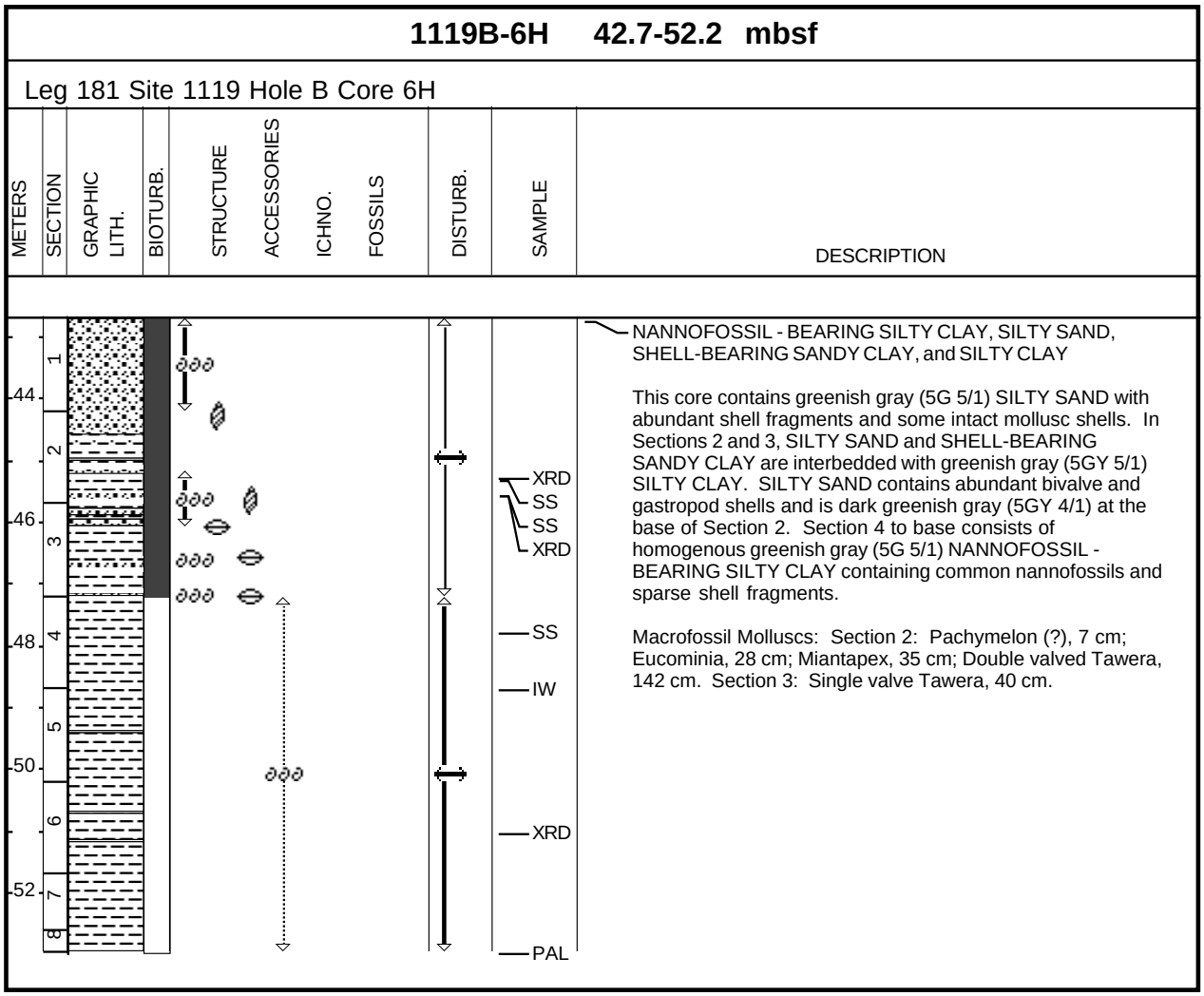
Core Photo


1119B-4H 23.7-33.2 mbsf
Leg 181 Site 1119 Hole B Core 4H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
24
26
28
30
1
2
3
4
5
6
7
Py
Py
Py
SS
IW
SS
SS
PAL
SILTY CLAY
This core contains greenish gray (5G 5/1) SILTY CLAY, with a slight mottling of greenish gray (5GY 6/1) SILTY CLAY.
Pyrite is present below the bioturbated contact in Section 5.

Core Photo


1119B-5H 33.2-42.7 mbsf
Leg 181 Site 1119 Hole B Core 5H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
34
36
38
40
42
1
2
3
4
5
6
7
8
Py
SS
IW
XRD
PAL
SPICULE - BEARING SILTY CLAY
Dark greenish gray (5G 4/1) SPICULE - BEARING SILTY CLAY with abundant siliceous sponge spicules and dark gray (N 4) pyrite smears present in Sections 1 through 4. Asterosoma burrows, filled with dark gray SILTY CLAY, are present in Section 4. Color layering with gradational contacts is also present. Below the gradational contact in Section 4, greenish gray (5GY 5/1) SILTY CLAY is present.

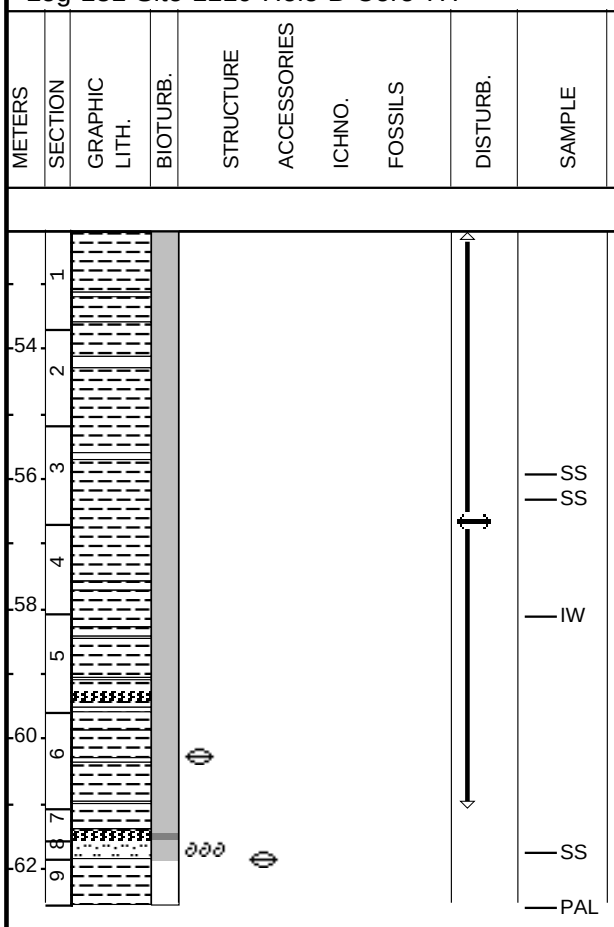
Core Photo


1119B-6H 42.7-52.2 mbsf
Leg 181 Site 1119 Hole B Core 6H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
44
46
48
50
52
1
2
3
4
5
6
7
8
XRD
SS
SS
XRD
SS
IW
XRD
PAL
NANNOFOSSIL - BEARING SILTY CLAY, SILTY SAND, SHELL-BEARING SANDY CLAY, and SILTY CLAY
This core contains greenish gray (5G 5/1) SILTY SAND with abundant shell fragments and some intact mollusc shells. In Sections 2 and 3, SILTY SAND and SHELL-BEARING SANDY CLAY are interbedded with greenish gray (5GY 5/1) SILTY CLAY. SILTY SAND contains abundant bivalve and gastropod shells and is dark greenish gray (5GY 4/1) at the base of Section 2. Section 4 to base consists of homogenous greenish gray (5G 5/1) NANNOFOSSIL - BEARING SILTY CLAY containing common nannofossils and sparse shell fragments.
Macrofossil Molluscs: Section 2: Pachymelon (?), 7 cm; Eucominia, 28 cm; Miantapex, 35 cm; Double valved Tawera, 142 cm. Section 3: Single valve Tawera, 40 cm.

Core Photo

1119B-7H 52.2-61.7 mbsf

Leg 181 Site 1119 Hole B Core 7H



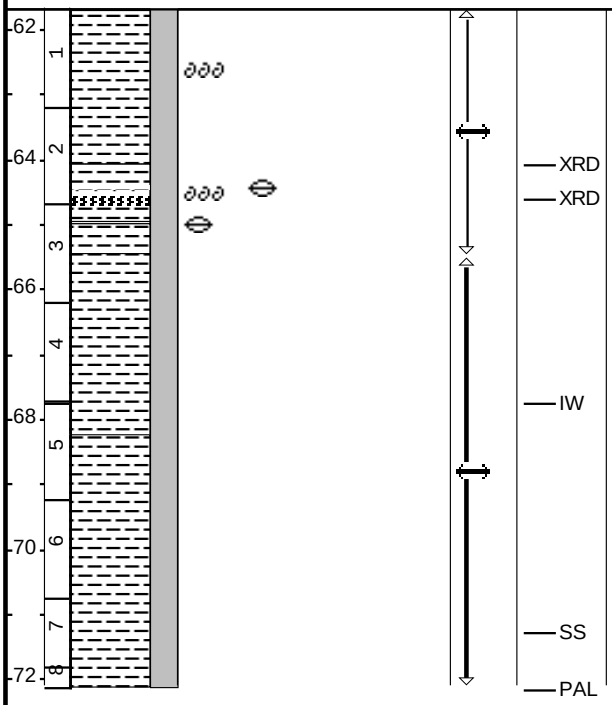
NANNOFOSSIL- BEARING SILTY CLAY and SANDY SILT

This core contains greenish gray (5G 5/1) NANNOFOSSIL-BEARING SILTY CLAY. Color layering is present throughout Sections 1 through 6 with gradational contacts of greenish gray (5G 6/1) and (5GY 5/1). SANDY SILT with abundant quartz, feldspar and shell fragments is present in Section 8. Bivalve: Tawera.

Core Photo

1119B-8H 61.7-71.2 mbsf

Leg 181 Site 1119 Hole B Core 8H

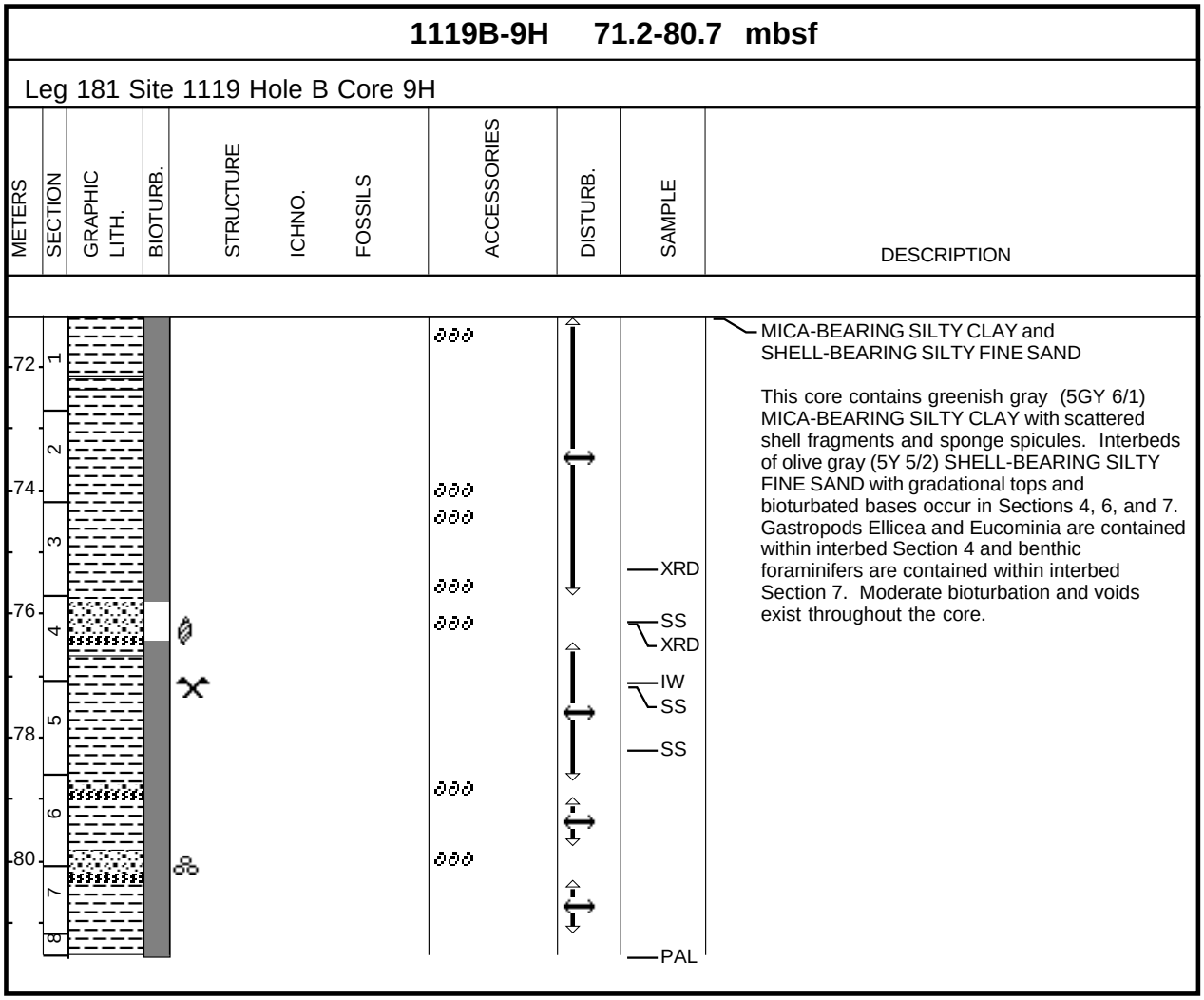


DESCRIPTION

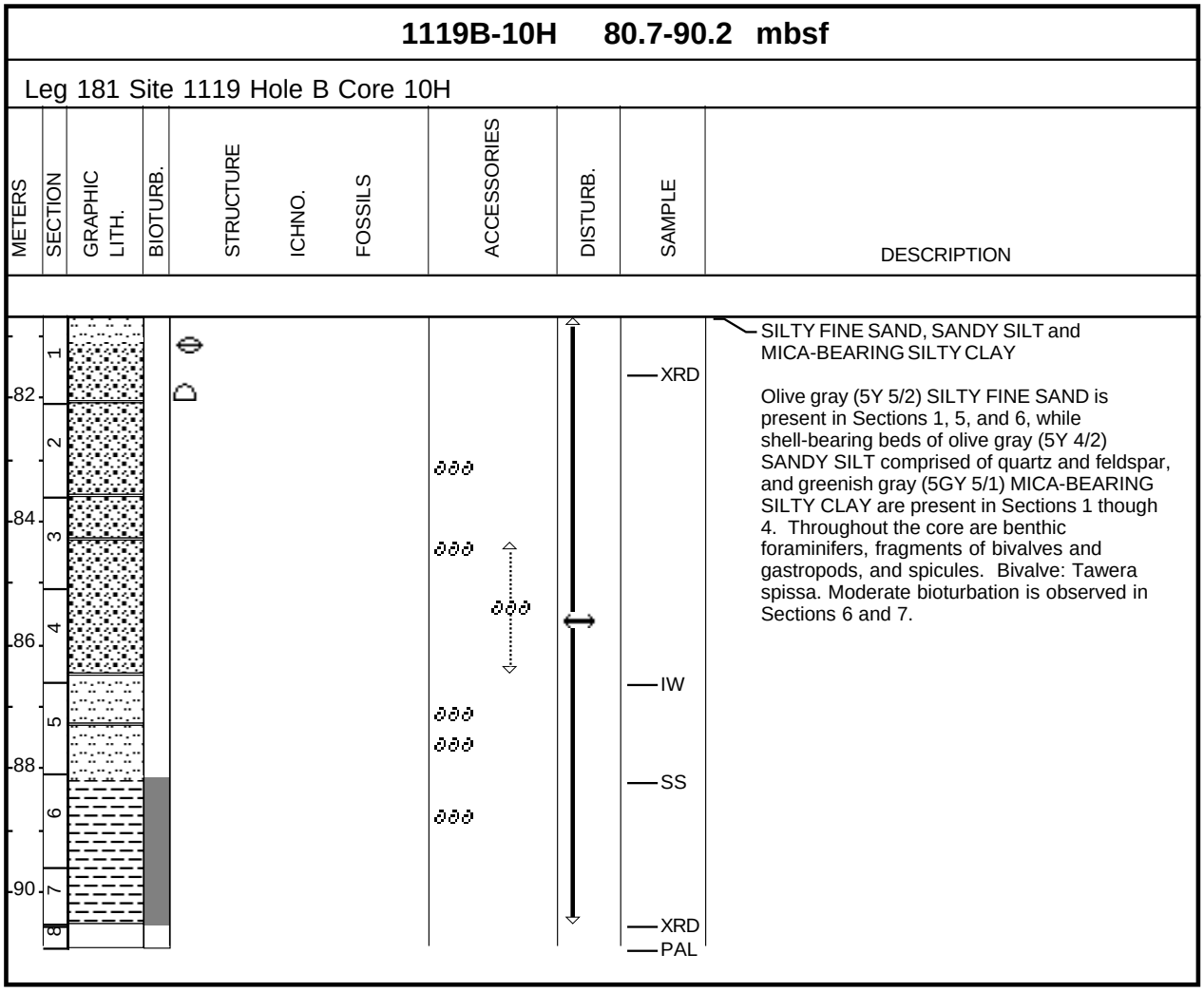
SILTY CLAY and SHELL-BEARING SANDY SILT

This core is almost entirely composed of greenish gray (5G 5/1) SILTY CLAY and dark greenish gray (5G 4/1) SHELL-BEARING SANDY SILT with abundant quartz, feldspar, and shell fragments. Intact bivalves (Tawera and Zygochlamys delicatula) are present in Section 3, 28 cm. Slight bioturbation is present throughout the core.

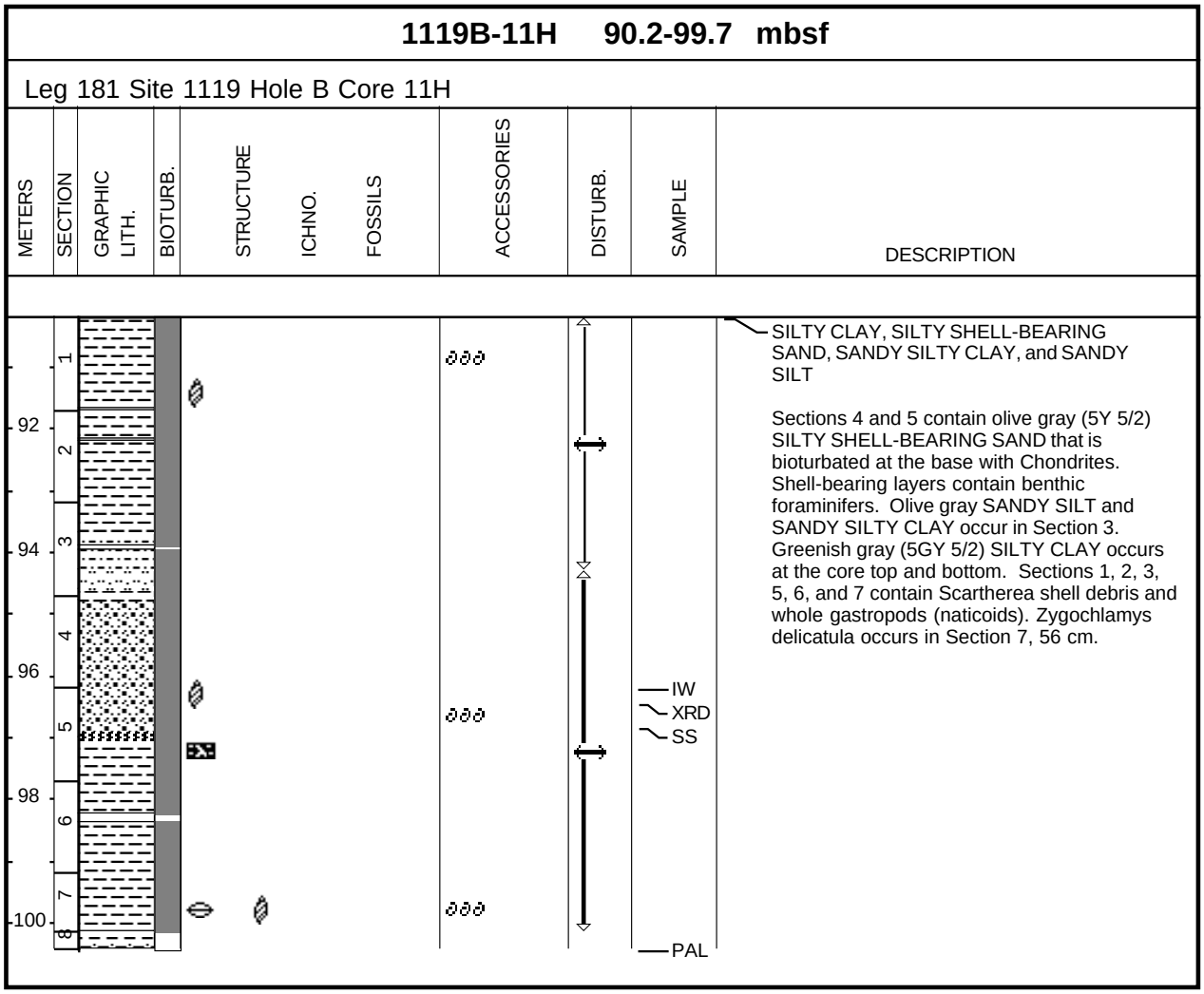
Core Photo


1119B-9H 71.2-80.7 mbsf
Leg 181 Site 1119 Hole B Core 9H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
72
74
76
78
80
1
2
3
4
5
6
7
8
XRD
SS
XRD
IW
SS
SS
PAL
MICA-BEARING SILTY CLAY and SHELL-BEARING SILTY FINE SAND
This core contains greenish gray (5GY 6/1) MICA-BEARING SILTY CLAY with scattered shell fragments and sponge spicules. Interbeds of olive gray (5Y 5/2) SHELL-BEARING SILTY FINE SAND with gradational tops and bioturbated bases occur in Sections 4, 6, and 7. Gastropods Ellicea and Eucominia are contained within interbed Section 4 and benthic foraminifers are contained within interbed Section 7. Moderate bioturbation and voids exist throughout the core.

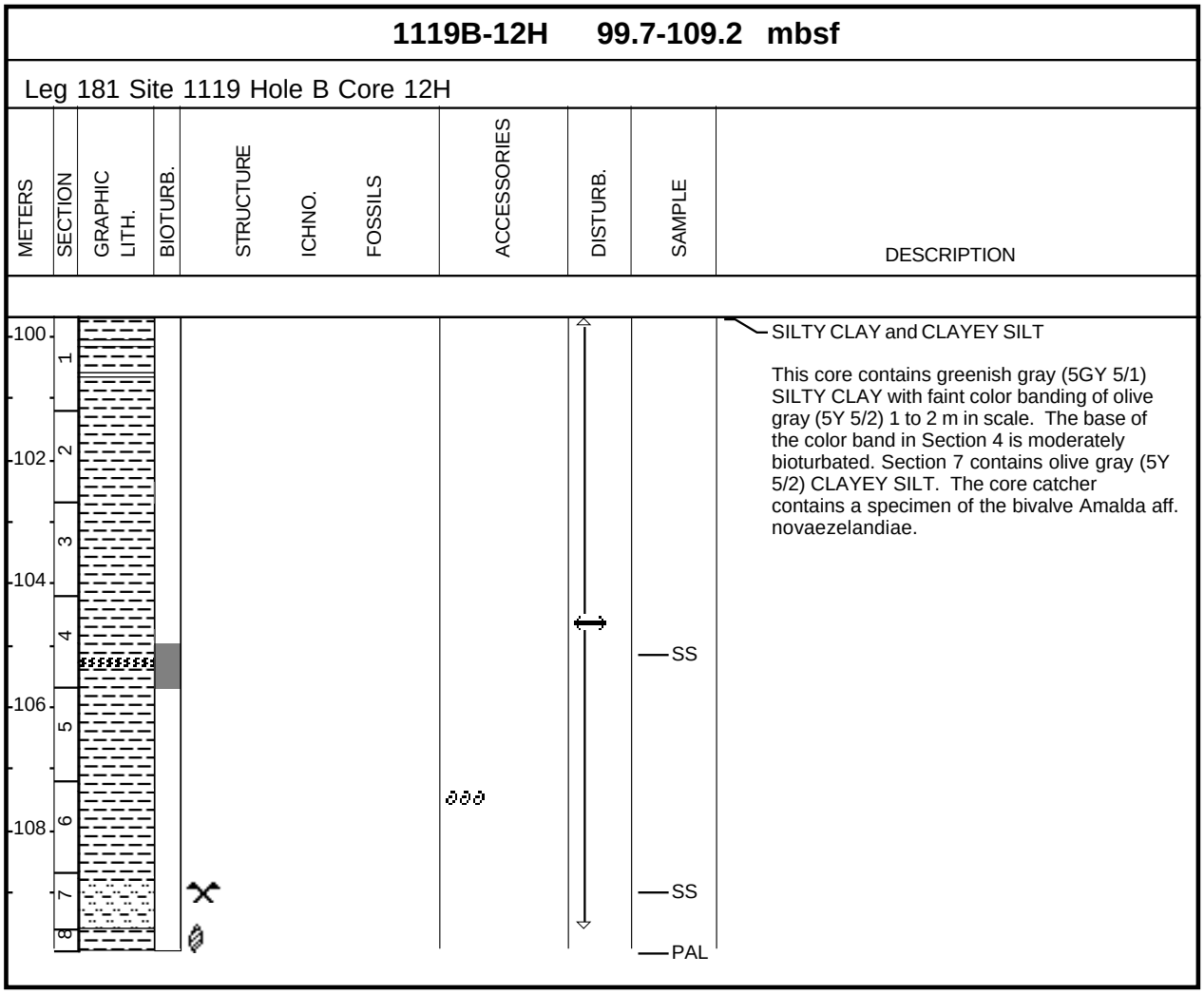
Core Photo


1119B-10H 80.7-90.2 mbsf
Leg 181 Site 1119 Hole B Core 10H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
82
84
86
88
90
1
2
3
4
5
6
7
8
XRD
IW
SS
XRD
PAL
SILTY FINE SAND, SANDY SILT and MICA-BEARING SILTY CLAY
Olive gray (5Y 5/2) SILTY FINE SAND is present in Sections 1, 5, and 6, while shell-bearing beds of olive gray (5Y 4/2) SANDY SILT comprised of quartz and feldspar, and greenish gray (5GY 5/1) MICA-BEARING SILTY CLAY are present in Sections 1 though 4. Throughout the core are benthic foraminifers, fragments of bivalves and gastropods, and spicules. Bivalve: Tawera spissa. Moderate bioturbation is observed in Sections 6 and 7.

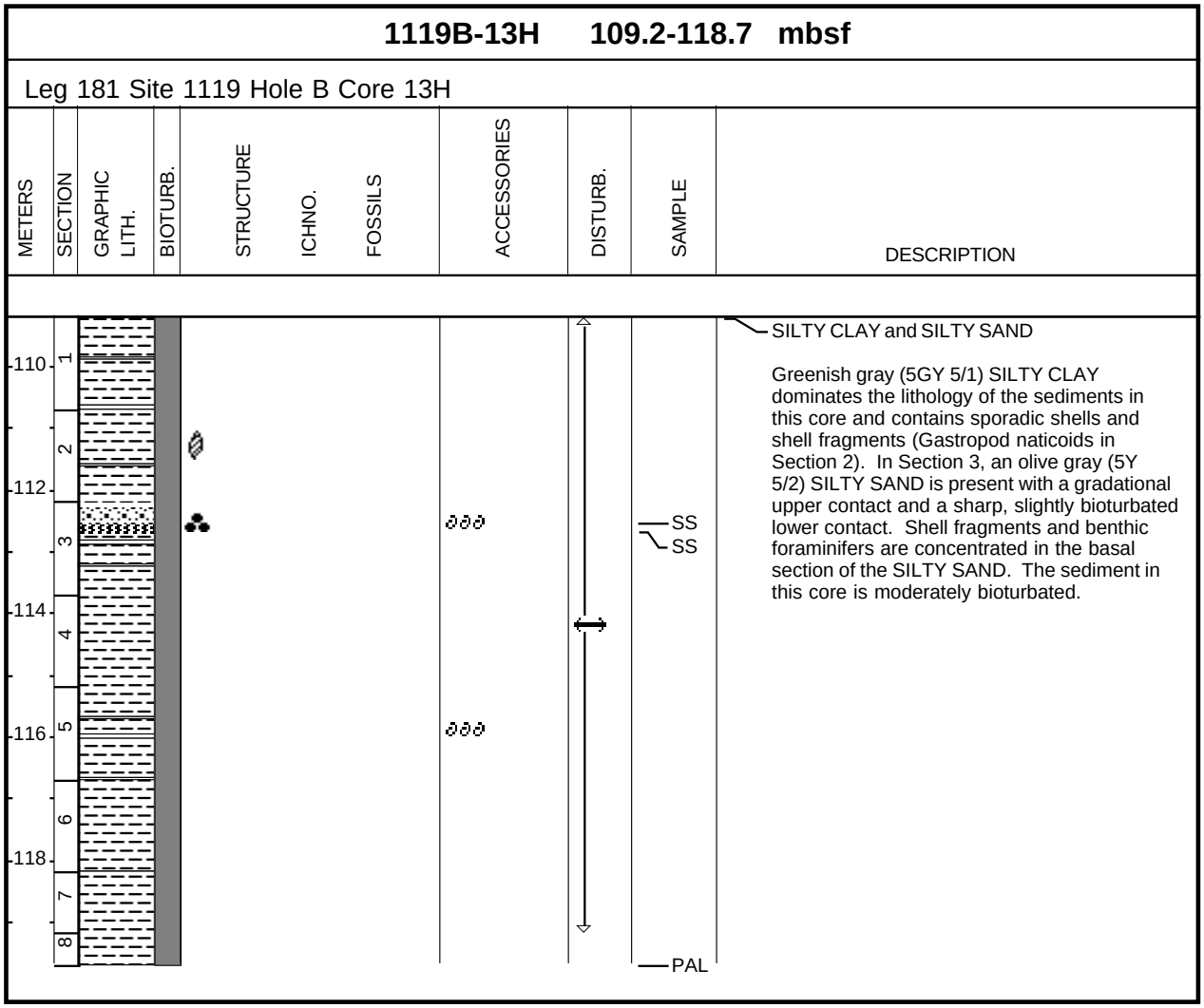
Core Photo


1119B-11H 90.2-99.7 mbsf
Leg 181 Site 1119 Hole B Core 11H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
92
94
96
98
100
1
2
3
4
5
6
7
8
IW
XRD
SS
PAL
SILTY CLAY, SILTY SHELL-BEARING SAND, SANDY SILTY CLAY, and SANDY SILT
Sections 4 and 5 contain olive gray (5Y 5/2) SILTY SHELL-BEARING SAND that is bioturbated at the base with Chondrites. Shell-bearing layers contain benthic foraminifers. Olive gray SANDY SILT and SANDY SILTY CLAY occur in Section 3. Greenish gray (5GY 5/2) SILTY CLAY occurs at the core top and bottom. Sections 1, 2, 3, 5, 6, and 7 contain Scartherea shell debris and whole gastropods (naticoids). Zygochlamys delicatula occurs in Section 7, 56 cm.

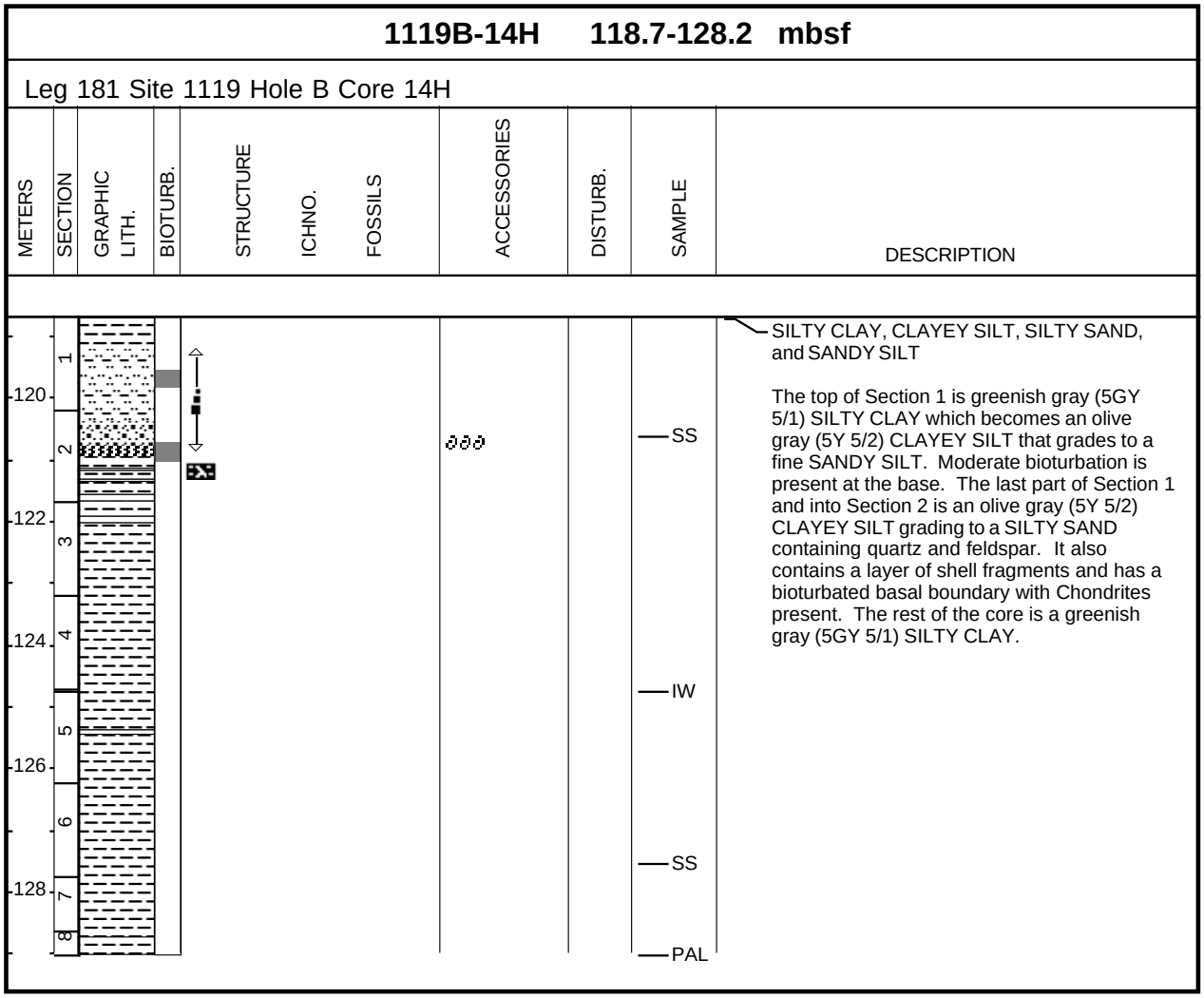
Core Photo


1119B-12H 99.7-109.2 mbsf
Leg 181 Site 1119 Hole B Core 12H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
100
102
104
106
108
1
2
3
4
5
6
7
8
SS
SS
PAL
SILTY CLAY and CLAYEY SILT
This core contains greenish gray (5GY 5/1) SILTY CLAY with faint color banding of olive gray (5Y 5/2) 1 to 2 m in scale. The base of the color band in Section 4 is moderately bioturbated. Section 7 contains olive gray (5Y 5/2) CLAYEY SILT. The core catcher contains a specimen of the bivalve Amalda aff. novaezelandiae.

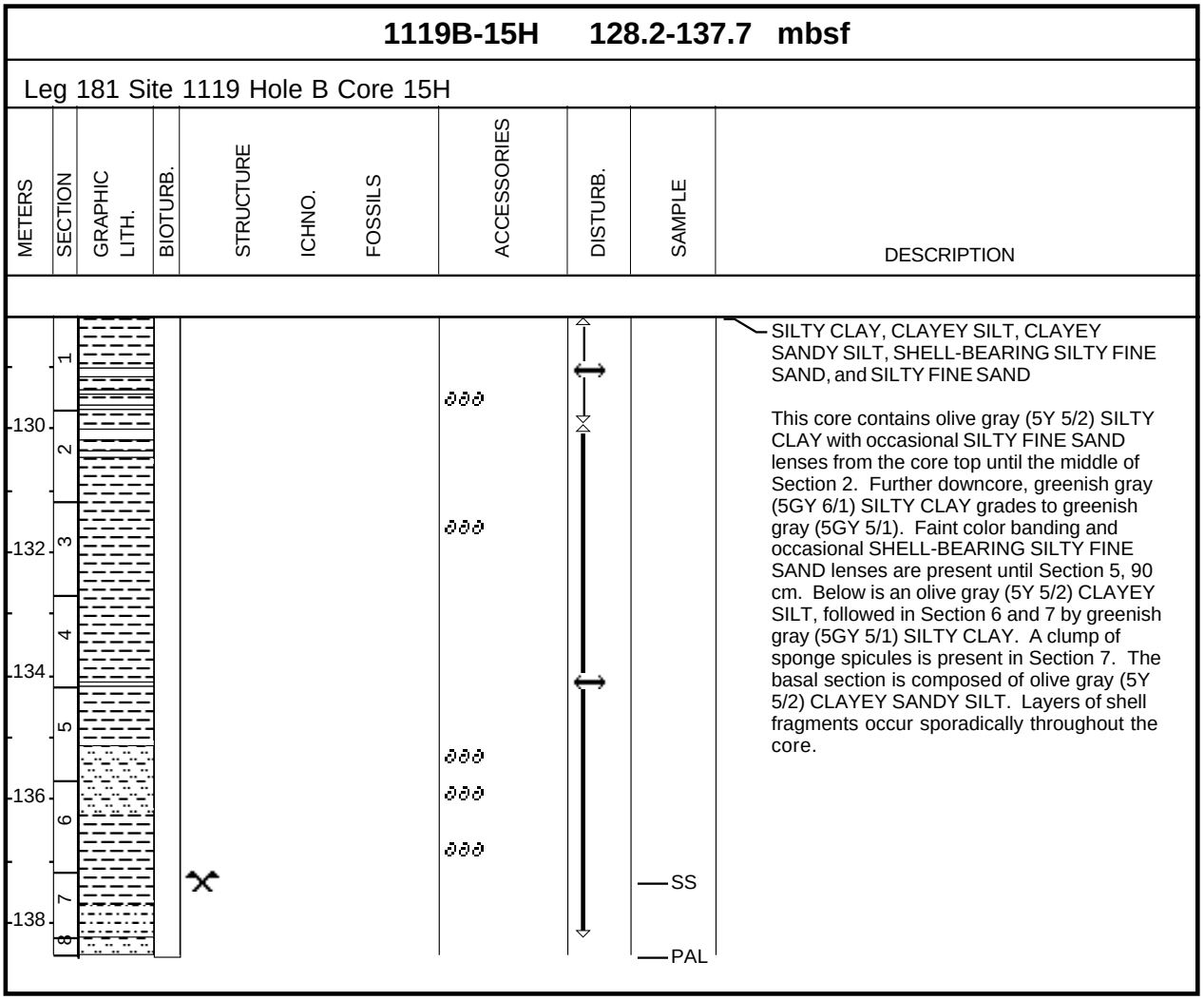
Core Photo


1119B-13H 109.2-118.7 mbsf
Leg 181 Site 1119 Hole B Core 13H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
110
112
114
116
118
1
2
3
4
5
6
7
8
SS
SS
PAL
SILTY CLAY and SILTY SAND
Greenish gray (5GY 5/1) SILTY CLAY dominates the lithology of the sediments in this core and contains sporadic shells and shell fragments (Gastropod naticoids in Section 2). In Section 3, an olive gray (5Y 5/2) SILTY SAND is present with a gradational upper contact and a sharp, slightly bioturbated lower contact. Shell fragments and benthic foraminifers are concentrated in the basal section of the SILTY SAND. The sediment in this core is moderately bioturbated.

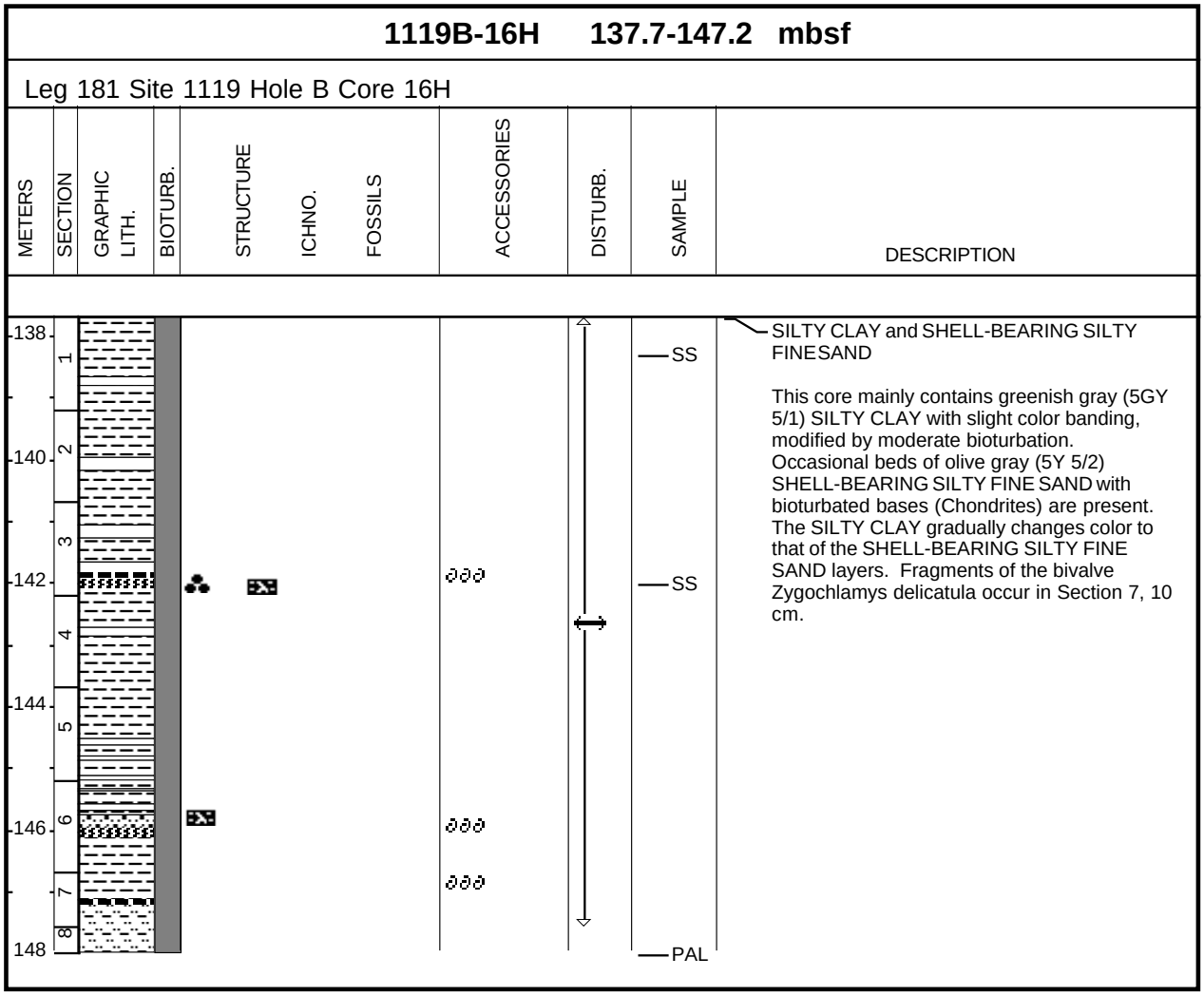
Core Photo


1119B-14H 118.7-128.2 mbsf
Leg 181 Site 1119 Hole B Core 14H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
120
122
124
126
128
1
2
3
4
5
6
7
8
SS
IW
SS
PAL
SILTY CLAY, CLAYEY SILT, SILTY SAND, and SANDY SILT
The top of Section 1 is greenish gray (5GY 5/1) SILTY CLAY which becomes an olive gray (5Y 5/2) CLAYEY SILT that grades to a fine SANDY SILT. Moderate bioturbation is present at the base. The last part of Section 1 and into Section 2 is an olive gray (5Y 5/2) CLAYEY SILT grading to a SILTY SAND containing quartz and feldspar. It also contains a layer of shell fragments and has a bioturbated basal boundary with Chondrites present. The rest of the core is a greenish gray (5GY 5/1) SILTY CLAY.

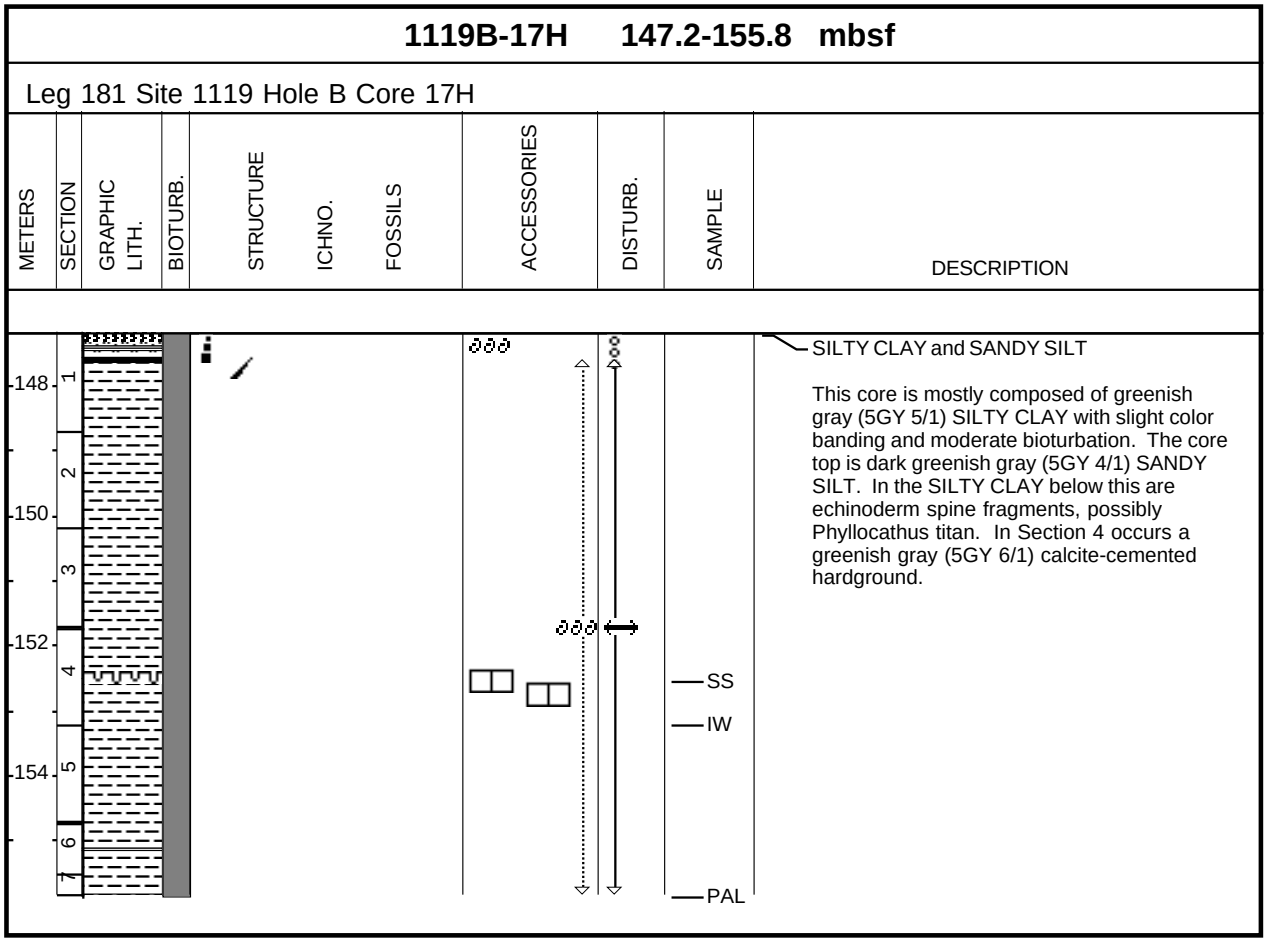
Core Photo


1119B-15H 128.2-137.7 mbsf
Leg 181 Site 1119 Hole B Core 15H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
130
132
134
136
138
1
2
3
4
5
6
7
8
SS
PAL
SILTY CLAY, CLAYEY SILT, CLAYEY SANDY SILT, SHELL-BEARING SILTY FINE SAND, and SILTY FINE SAND
This core contains olive gray (5Y 5/2) SILTY CLAY with occasional SILTY FINE SAND lenses from the core top until the middle of Section 2. Further downcore, greenish gray (5GY 6/1) SILTY CLAY grades to greenish gray (5GY 5/1). Faint color banding and occasional SHELL-BEARING SILTY FINE SAND lenses are present until Section 5, 90 cm. Below is an olive gray (5Y 5/2) CLAYEY SILT, followed in Section 6 and 7 by greenish gray (5GY 5/1) SILTY CLAY. A clump of sponge spicules is present in Section 7. The basal section is composed of olive gray (5Y 5/2) CLAYEY SANDY SILT. Layers of shell fragments occur sporadically throughout the core.

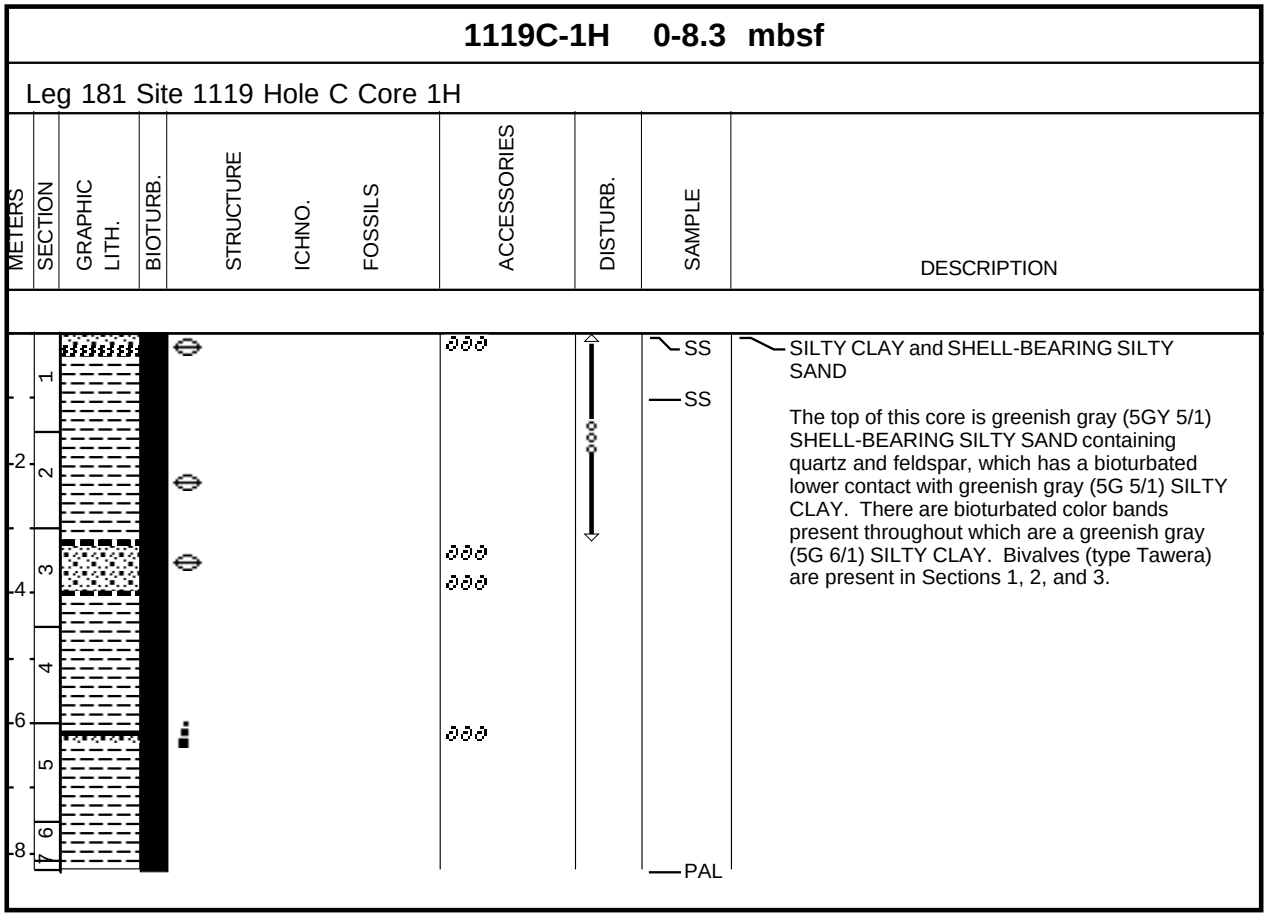
Core Photo


1119B-16H 137.7-147.2 mbsf
Leg 181 Site 1119 Hole B Core 16H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
138
140
142
144
146
148
1
2
3
4
5
6
7
8
SS
SS
PAL
SILTY CLAY and SHELL-BEARING SILTY FINESAND
This core mainly contains greenish gray (5GY 5/1) SILTY CLAY with slight color banding, modified by moderate bioturbation. Occasional beds of olive gray (5Y 5/2) SHELL-BEARING SILTY FINE SAND with bioturbated bases (Chondrites) are present. The SILTY CLAY gradually changes color to that of the SHELL-BEARING SILTY FINE SAND layers. Fragments of the bivalve Zygochlamys delicatula occur in Section 7, 10 cm.

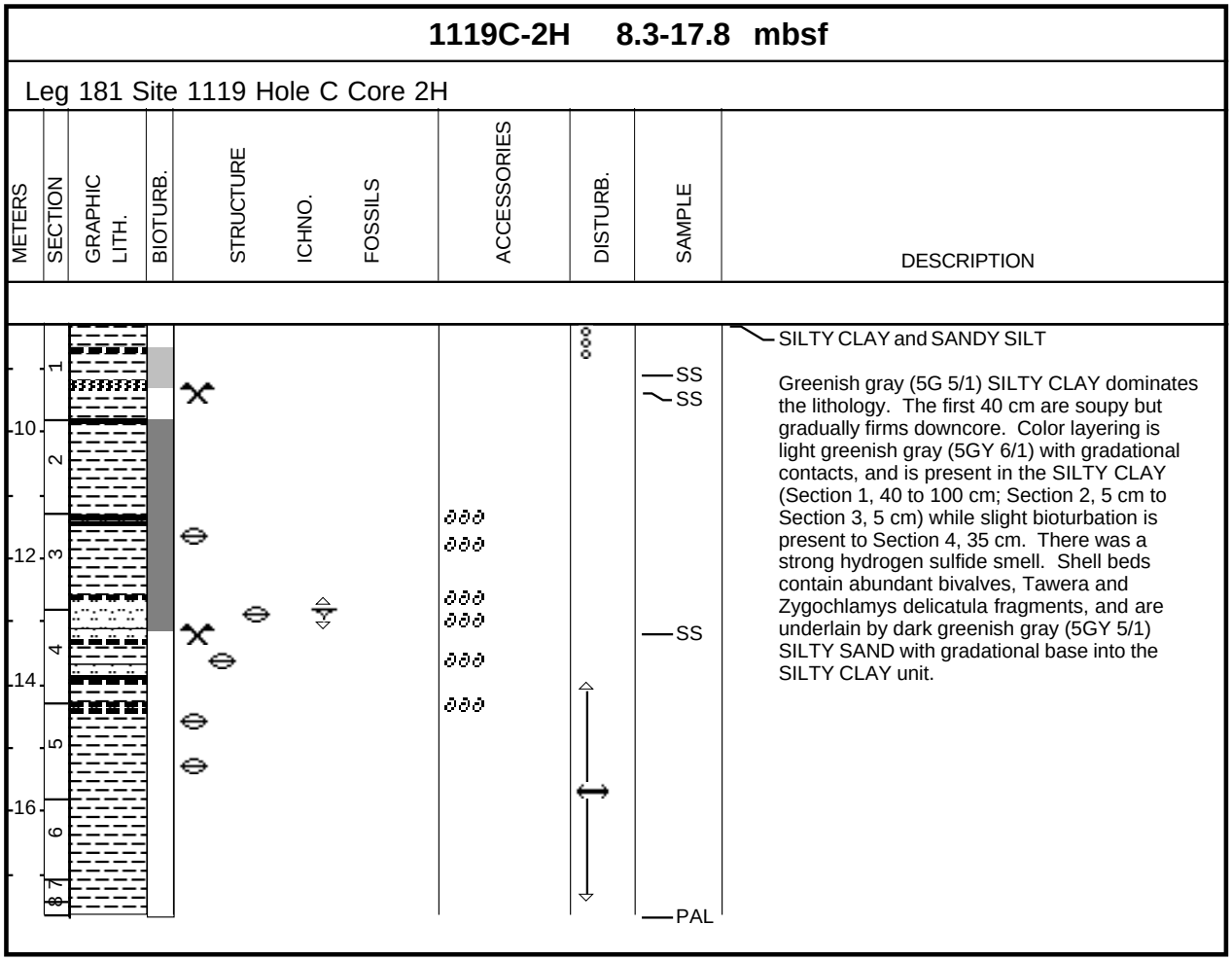
Core Photo


1119B-17H 147.2-155.8 mbsf
Leg 181 Site 1119 Hole B Core 17H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
148
150
152
154
1
2
3
4
5
6
7
SS
IW
PAL
SILTY CLAY and SANDY SILT
This core is mostly composed of greenish gray (5GY 5/1) SILTY CLAY with slight color banding and moderate bioturbation. The core top is dark greenish gray (5GY 4/1) SANDY SILT. In the SILTY CLAY below this are echinoderm spine fragments, possibly Phyllocathus titan. In Section 4 occurs a greenish gray (5GY 6/1) calcite-cemented hardground.

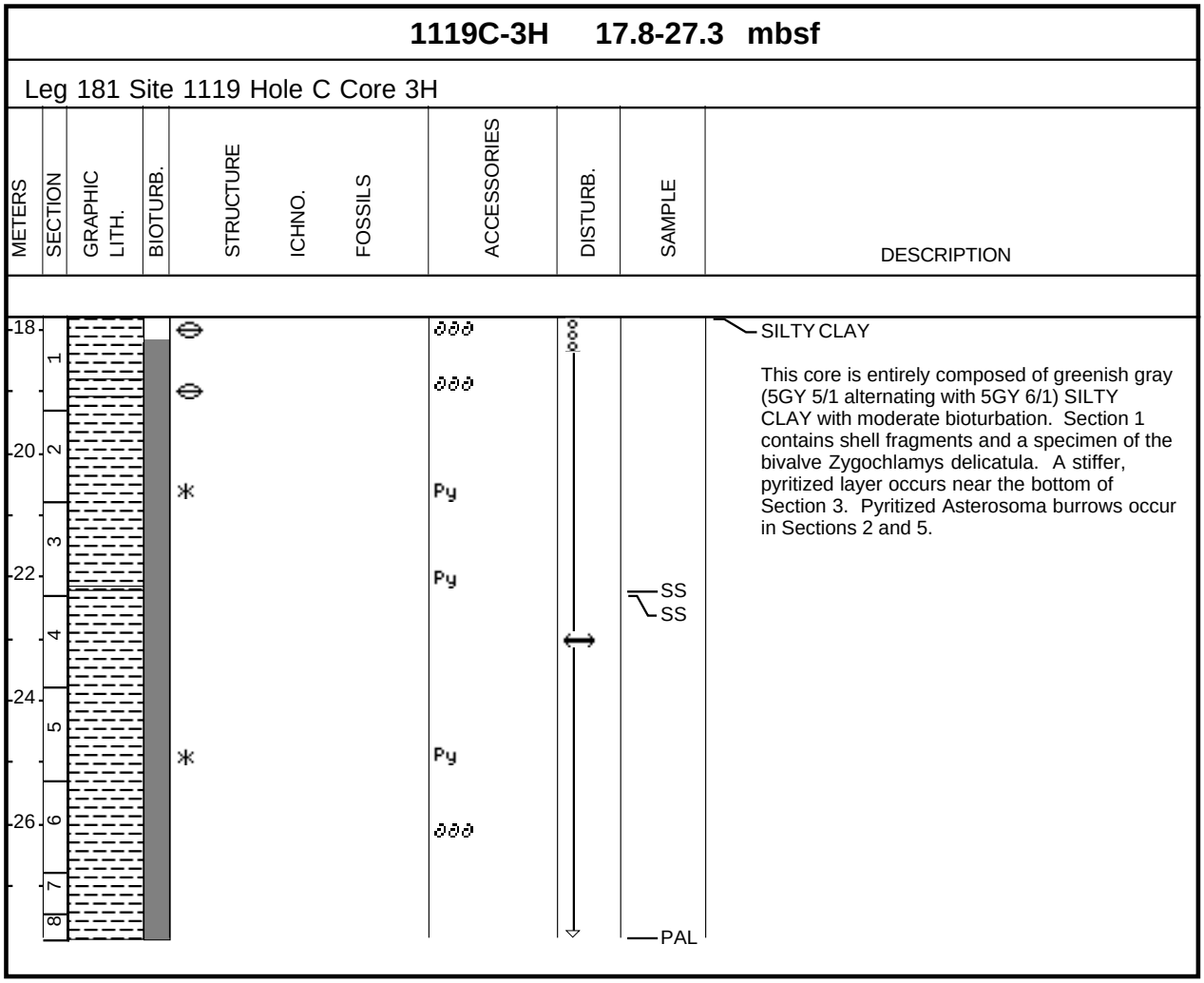
Core Photo


1119C-1H 0-8.3 mbsf
Leg 181 Site 1119 Hole C Core 1H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
SS
SS
PAL
SILTY CLAY and SHELL-BEARING SILTY SAND
The top of this core is greenish gray (5GY 5/1) SHELL-BEARING SILTY SAND containing quartz and feldspar, which has a bioturbated lower contact with greenish gray (5G 5/1) SILTY CLAY. There are bioturbated color bands present throughout which are a greenish gray (5G 6/1) SILTY CLAY. Bivalves (type Tawera) are present in Sections 1, 2, and 3.

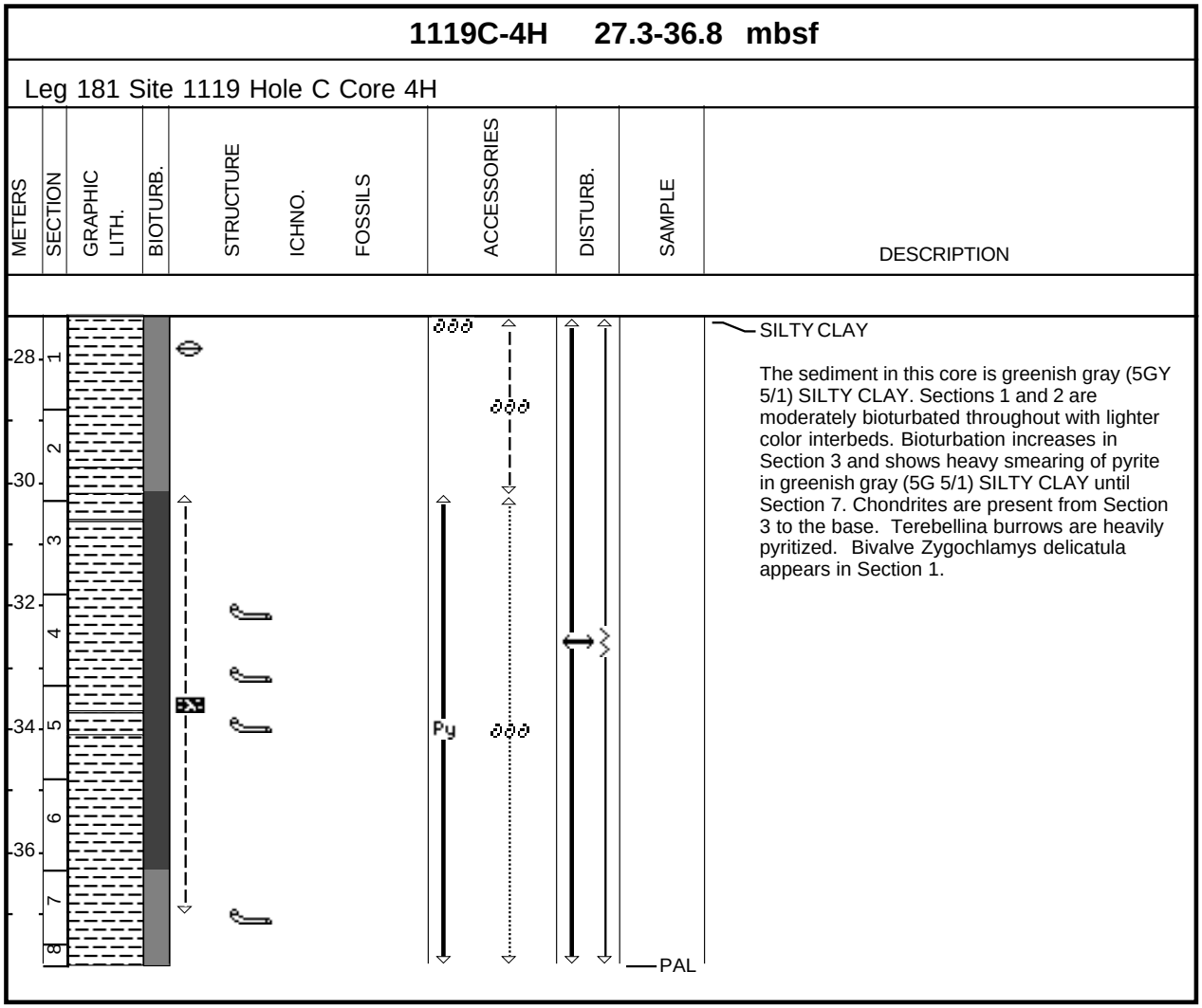
Core Photo


1119C-2H 8.3-17.8 mbsf
Leg 181 Site 1119 Hole C Core 2H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
10
12
14
16
1
2
3
4
5
6
7
SS
SS
SS
PAL
SILTY CLAY and SANDY SILT
Greenish gray (5G 5/1) SILTY CLAY dominates the lithology. The first 40 cm are soupy but gradually firms downcore. Color layering is light greenish gray (5GY 6/1) with gradational contacts, and is present in the SILTY CLAY (Section 1, 40 to 100 cm; Section 2, 5 cm to Section 3, 5 cm) while slight bioturbation is present to Section 4, 35 cm. There was a strong hydrogen sulfide smell. Shell beds contain abundant bivalves, Tawera and Zygochlamys delicatula fragments, and are underlain by dark greenish gray (5GY 5/1) SILTY SAND with gradational base into the SILTY CLAY unit.

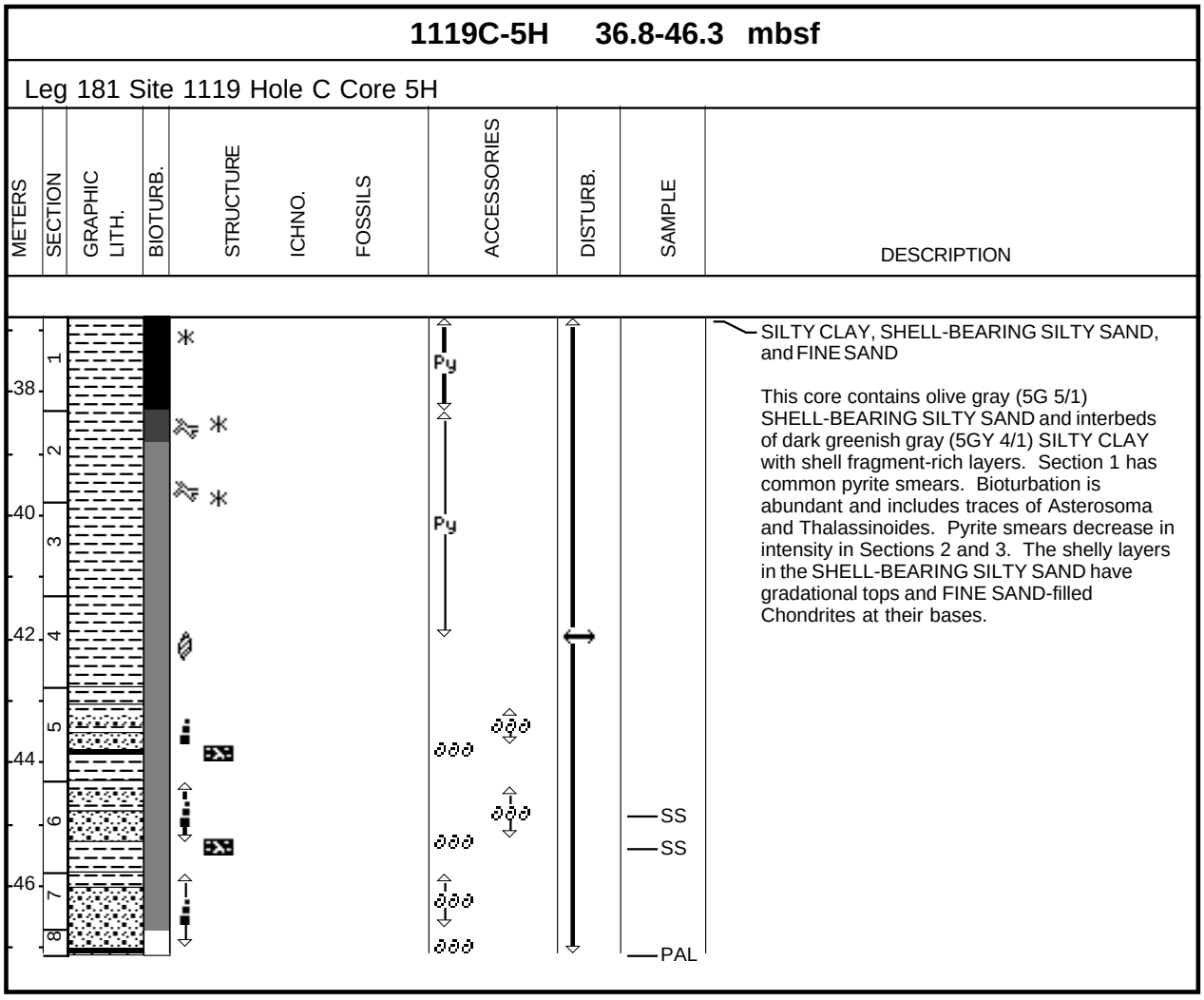
Core Photo


1119C-3H 17.8-27.3 mbsf
Leg 181 Site 1119 Hole C Core 3H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
18
20
22
24
26
1
2
3
4
5
6
7
8
Py
Py
Py
SS
SS
PAL
SILTY CLAY
This core is entirely composed of greenish gray (5GY 5/1 alternating with 5GY 6/1) SILTY CLAY with moderate bioturbation. Section 1 contains shell fragments and a specimen of the bivalve Zygochlamys delicatula. A stiffer, pyritized layer occurs near the bottom of Section 3. Pyritized Asterosoma burrows occur in Sections 2 and 5.

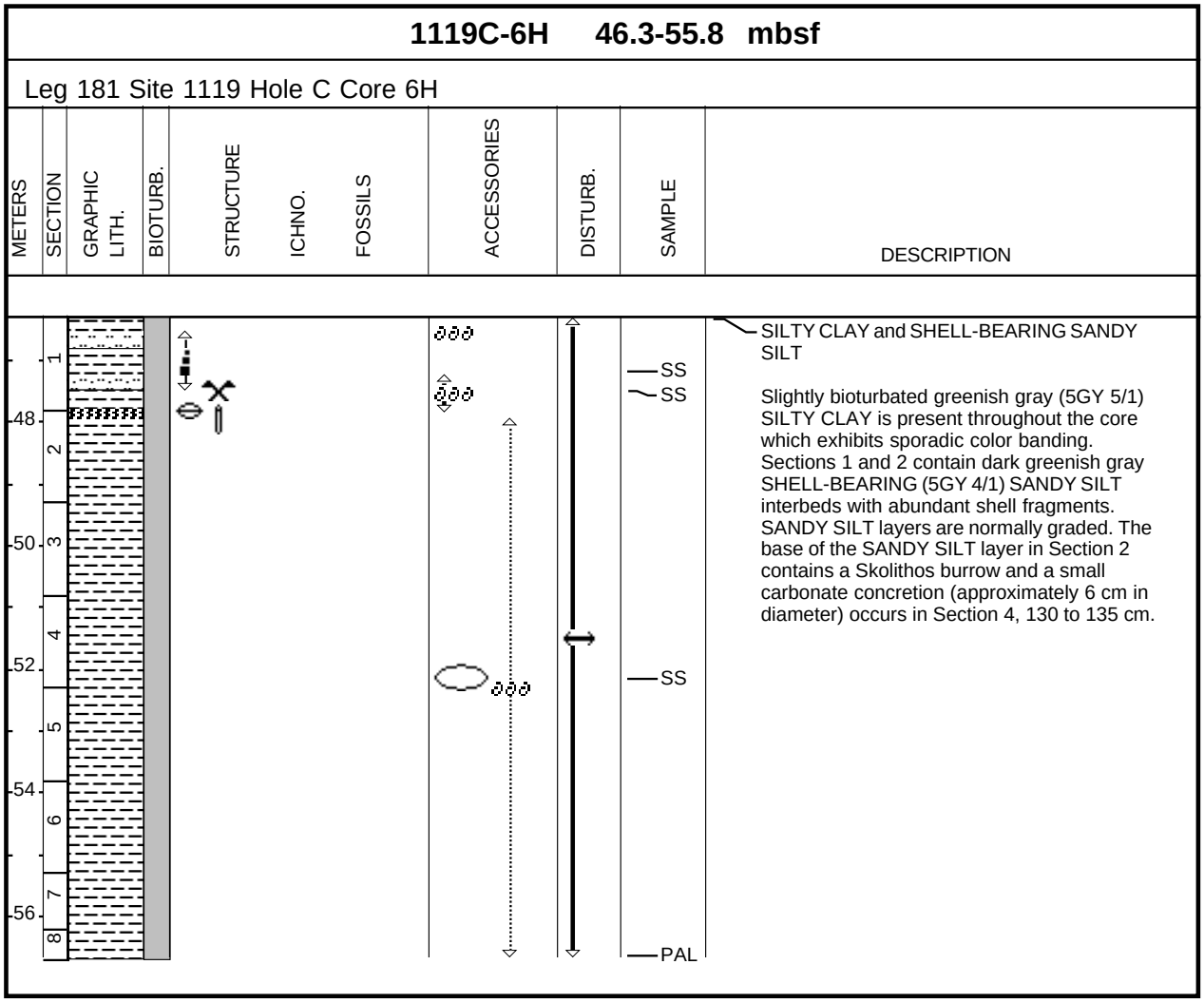
Core Photo


1119C-4H 27.3-36.8 mbsf
Leg 181 Site 1119 Hole C Core 4H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
28
30
32
34
36
1
2
3
4
5
6
7
8
Py
PAL
SILTY CLAY
The sediment in this core is greenish gray (5GY 5/1) SILTY CLAY. Sections 1 and 2 are moderately bioturbated throughout with lighter color interbeds. Bioturbation increases in Section 3 and shows heavy smearing of pyrite in greenish gray (5G 5/1) SILTY CLAY until Section 7. Chondrites are present from Section 3 to the base. Terebellina burrows are heavily pyritized. Bivalve Zygochlamys delicatula appears in Section 1.

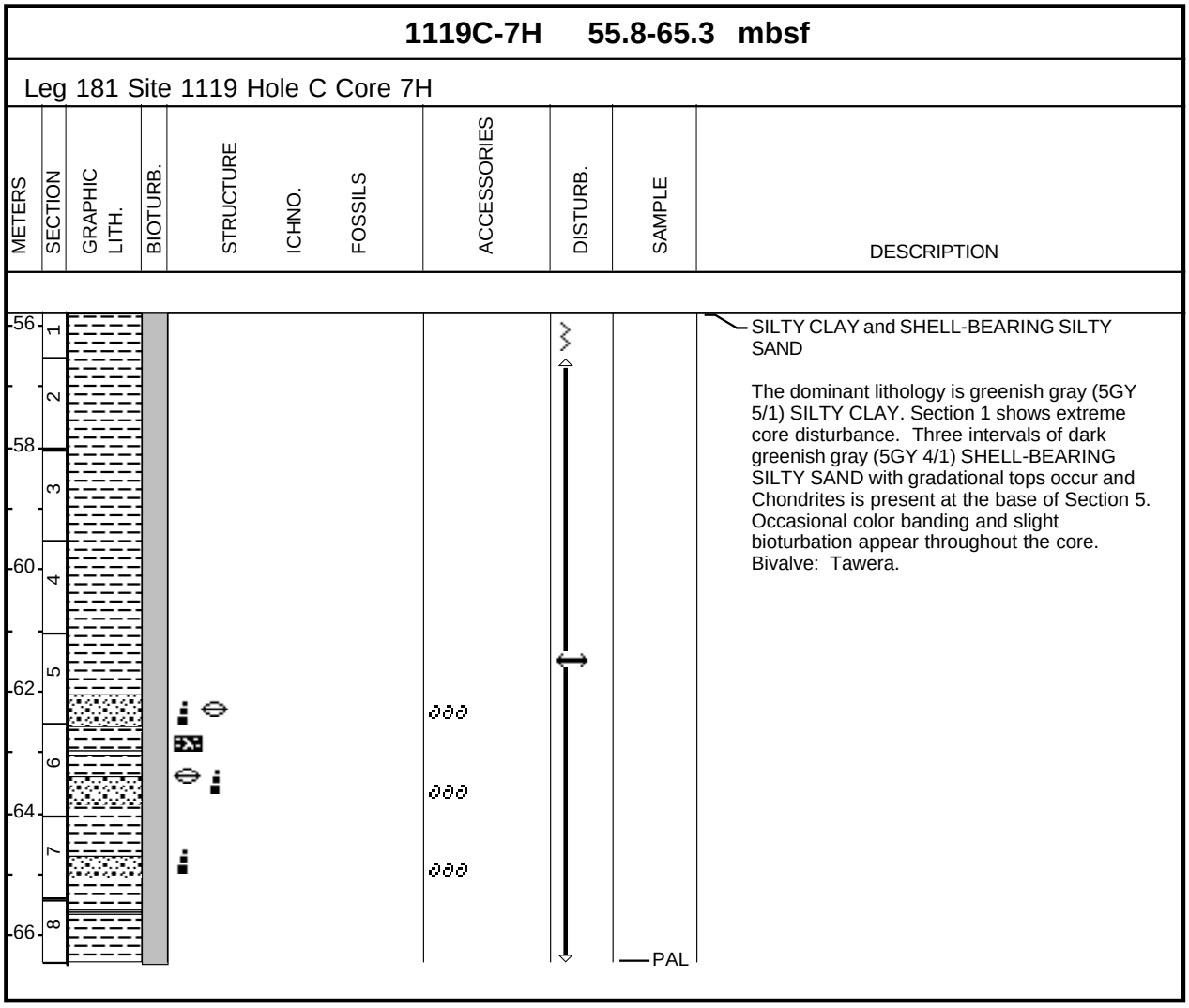
Core Photo


1119C-5H 36.8-46.3 mbsf
Leg 181 Site 1119 Hole C Core 5H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
38
40
42
44
46
1
2
3
4
5
6
7
8
Py
Py
SS
SS
PAL
SILTY CLAY, SHELL-BEARING SILTY SAND, and FINE SAND
This core contains olive gray (5G 5/1) SHELL-BEARING SILTY SAND and interbeds of dark greenish gray (5GY 4/1) SILTY CLAY with shell fragment-rich layers. Section 1 has common pyrite smears. Bioturbation is abundant and includes traces of Asterosoma and Thalassinoides. Pyrite smears decrease in intensity in Sections 2 and 3. The shelly layers in the SHELL-BEARING SILTY SAND have gradational tops and FINE SAND-filled Chondrites at their bases.

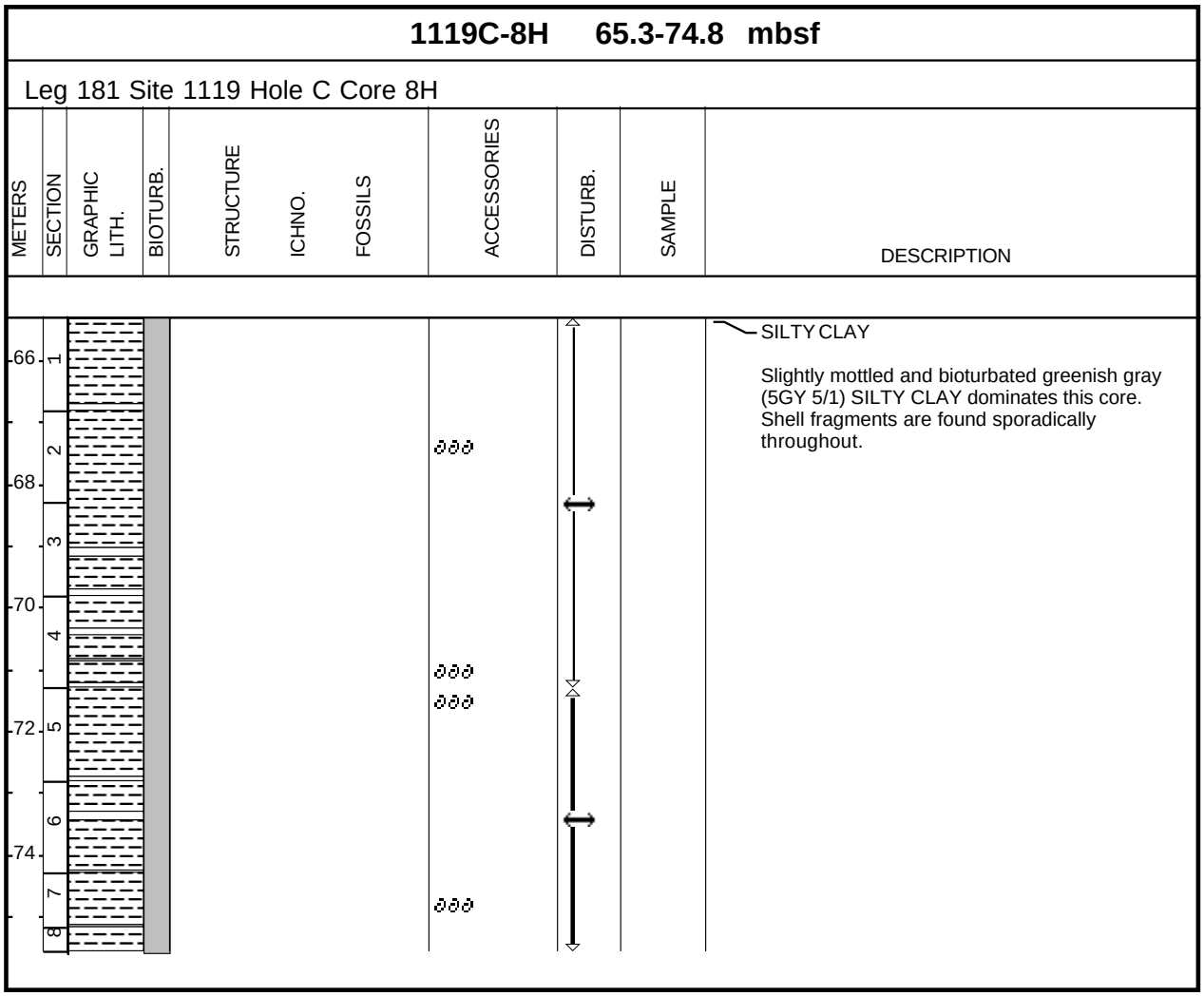
Core Photo


1119C-6H 46.3-55.8 mbsf
Leg 181 Site 1119 Hole C Core 6H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
48
50
52
54
56
1
2
3
4
5
6
7
8
SS
SS
SS
PAL
SILTY CLAY and SHELL-BEARING SANDY SILT
Slightly bioturbated greenish gray (5GY 5/1) SILTY CLAY is present throughout the core which exhibits sporadic color banding. Sections 1 and 2 contain dark greenish gray SHELL-BEARING (5GY 4/1) SANDY SILT interbeds with abundant shell fragments. SANDY SILT layers are normally graded. The base of the SANDY SILT layer in Section 2 contains a Skolithos burrow and a small carbonate concretion (approximately 6 cm in diameter) occurs in Section 4, 130 to 135 cm.

Core Photo


1119C-7H 55.8-65.3 mbsf
Leg 181 Site 1119 Hole C Core 7H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
56
58
60
62
64
66
1
2
3
4
5
6
7
8
PAL
SILTY CLAY and SHELL-BEARING SILTY SAND
The dominant lithology is greenish gray (5GY 5/1) SILTY CLAY. Section 1 shows extreme core disturbance. Three intervals of dark greenish gray (5GY 4/1) SHELL-BEARING SILTY SAND with gradational tops occur and Chondrites is present at the base of Section 5. Occasional color banding and slight bioturbation appear throughout the core. Bivalve: Tawera.

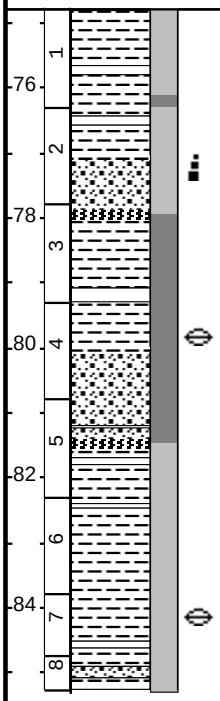
Core Photo


1119C-8H 65.3-74.8 mbsf
Leg 181 Site 1119 Hole C Core 8H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
66
68
70
72
74
1
2
3
4
5
6
7
8
SILTY CLAY
Slightly mottled and bioturbated greenish gray (5GY 5/1) SILTY CLAY dominates this core. Shell fragments are found sporadically throughout.

Core Photo

1119C-9H 74.8-84.3 mbsf

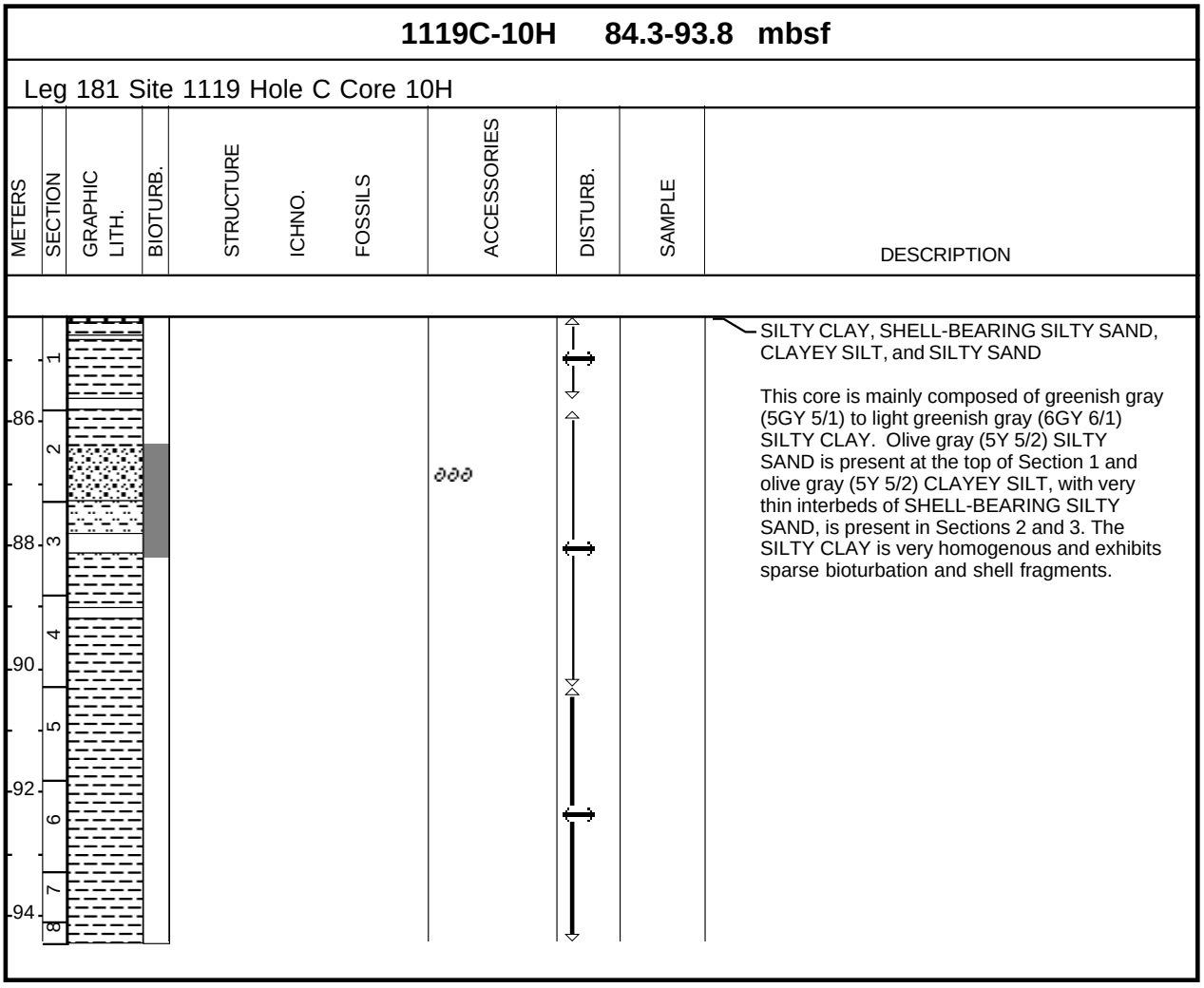
Leg 181 Site 1119 Hole C Core 9H



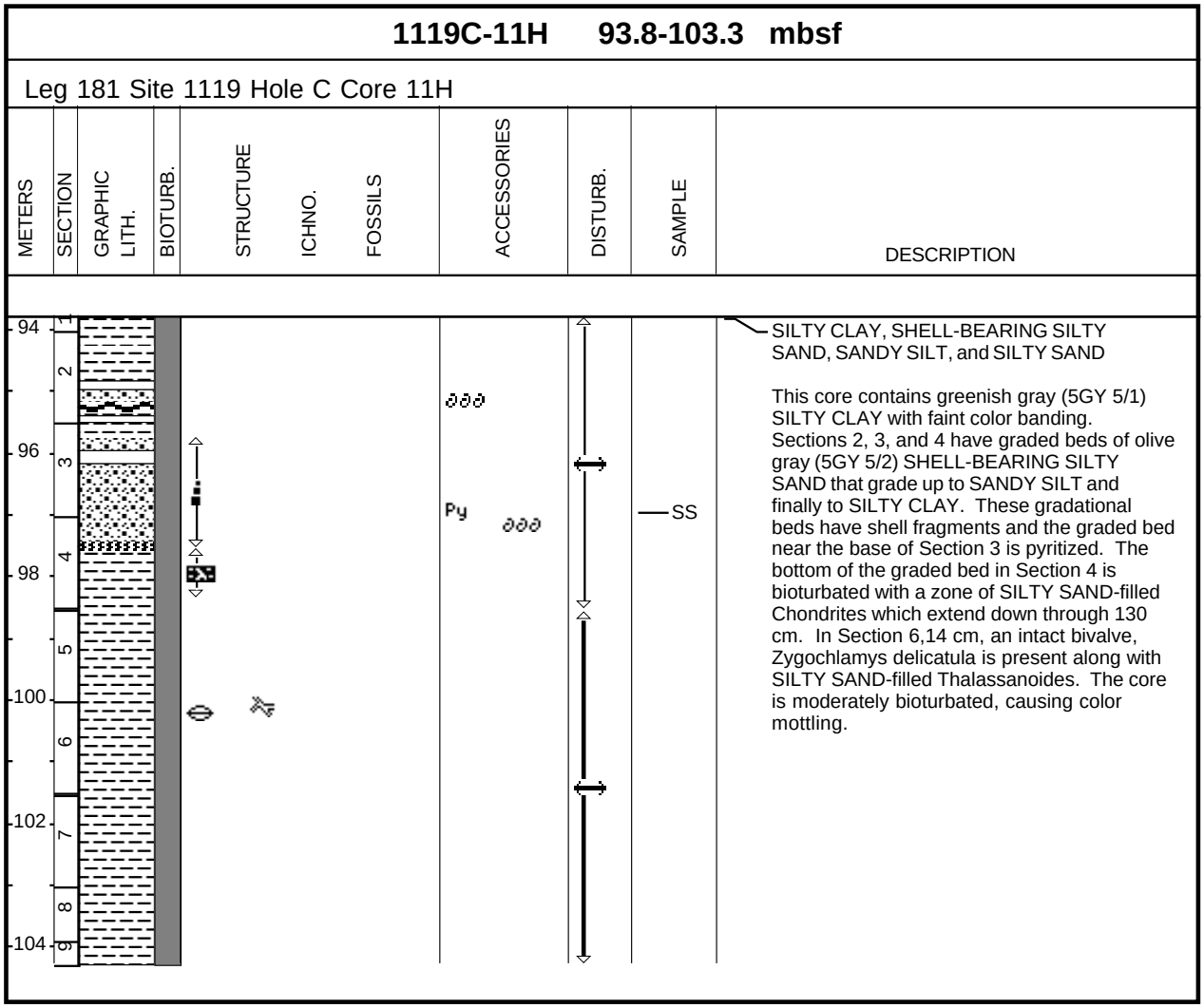
SILTY CLAY and SHELL-BEARING SILTY SAND

Dark olive gray (5GY 4/1) SILTY CLAY with faint color banding is present at the top of the core. The rare bioturbation in Section 1 increases to moderate bioturbation to the base of the section. Horizons of worm tubes occur in Section 1 between 58 to 62, 83 to 88, 101 to 109, and 126 to 134 cm. Two intervals of SHELL-BEARING SILTY SAND from Section 2, 78 cm, to Section 3, 10 cm, and from Section 4, 75 cm, to Section 5, 20 cm, show a gradational contact at the top and a bioturbated contact (Chondrites) at the base. Both intervals are rich in shell fragments and have a dark olive gray color. The SILTY CLAY is greenish gray (5G 5/1) and is weakly to moderately bioturbated.

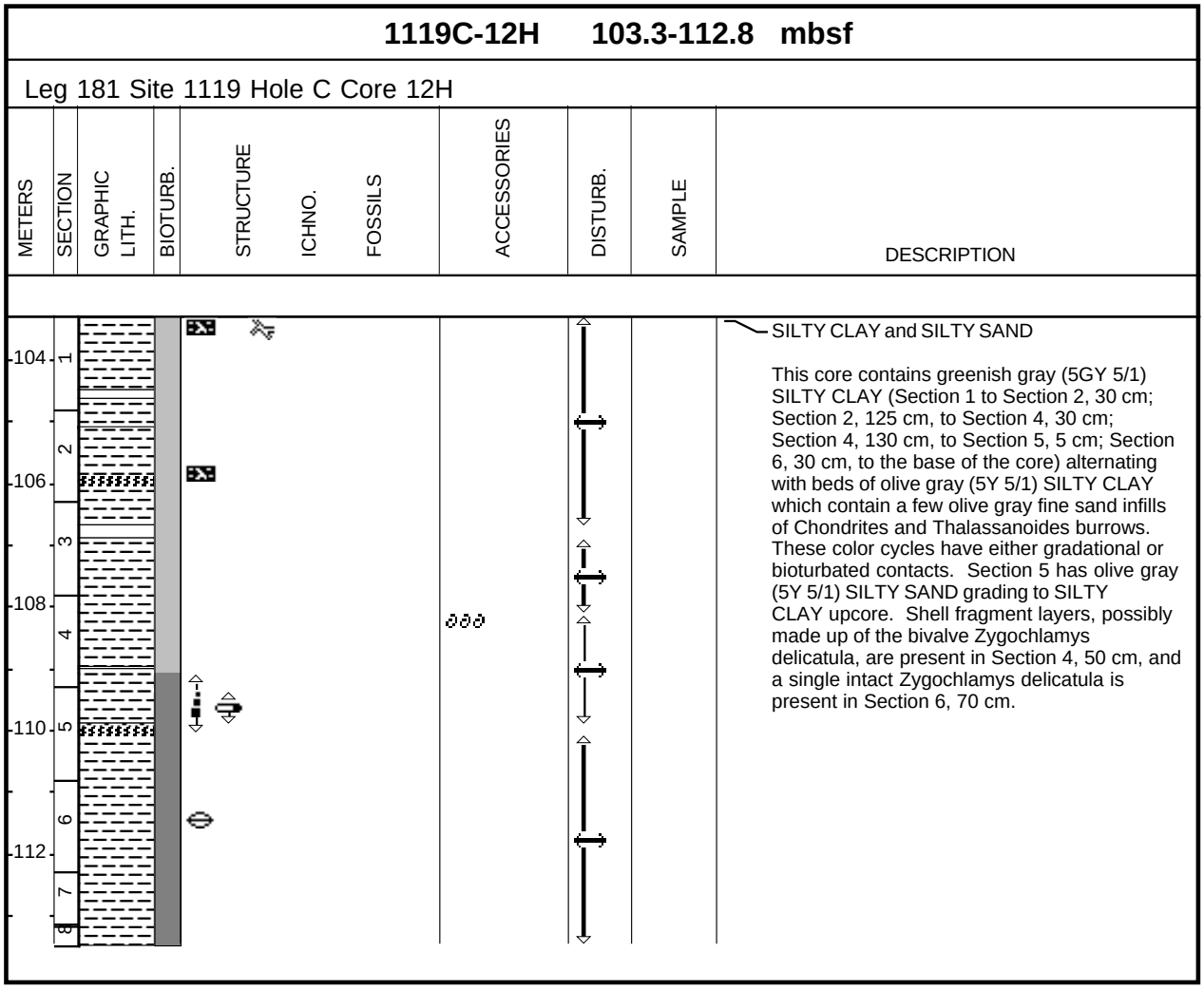
Core Photo


1119C-10H 84.3-93.8 mbsf
Leg 181 Site 1119 Hole C Core 10H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
86
88
90
92
94
1
2
3
4
5
6
7
CC
SILTY CLAY, SHELL-BEARING SILTY SAND, CLAYEY SILT, and SILTY SAND
This core is mainly composed of greenish gray (5GY 5/1) to light greenish gray (6GY 6/1) SILTY CLAY. Olive gray (5Y 5/2) SILTY SAND is present at the top of Section 1 and olive gray (5Y 5/2) CLAYEY SILT, with very thin interbeds of SHELL-BEARING SILTY SAND, is present in Sections 2 and 3. The SILTY CLAY is very homogenous and exhibits sparse bioturbation and shell fragments.

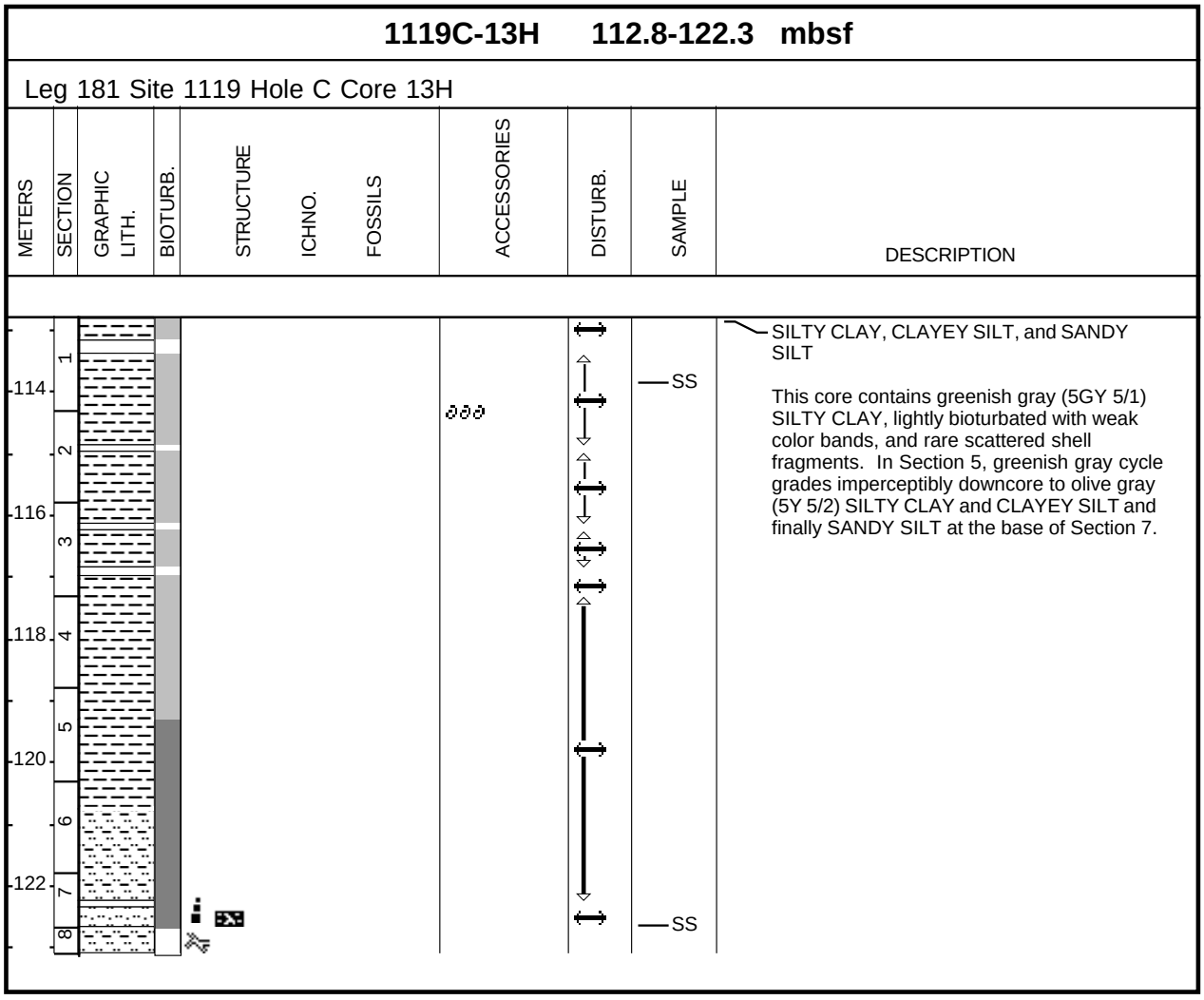
Core Photo


1119C-11H 93.8-103.3 mbsf
Leg 181 Site 1119 Hole C Core 11H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
94
96
98
100
102
104
1
2
3
4
5
6
7
8
9
Py
SS
SILTY CLAY, SHELL-BEARING SILTY SAND, SANDY SILT, and SILTY SAND
This core contains greenish gray (5GY 5/1) SILTY CLAY with faint color banding. Sections 2, 3, and 4 have graded beds of olive gray (5GY 5/2) SHELL-BEARING SILTY SAND that grade up to SANDY SILT and finally to SILTY CLAY. These gradational beds have shell fragments and the graded bed near the base of Section 3 is pyritized. The bottom of the graded bed in Section 4 is bioturbated with a zone of SILTY SAND-filled Chondrites which extend down through 130 cm. In Section 6,14 cm, an intact bivalve, Zygochlamys delicatula is present along with SILTY SAND-filled Thalassanoides. The core is moderately bioturbated, causing color mottling.

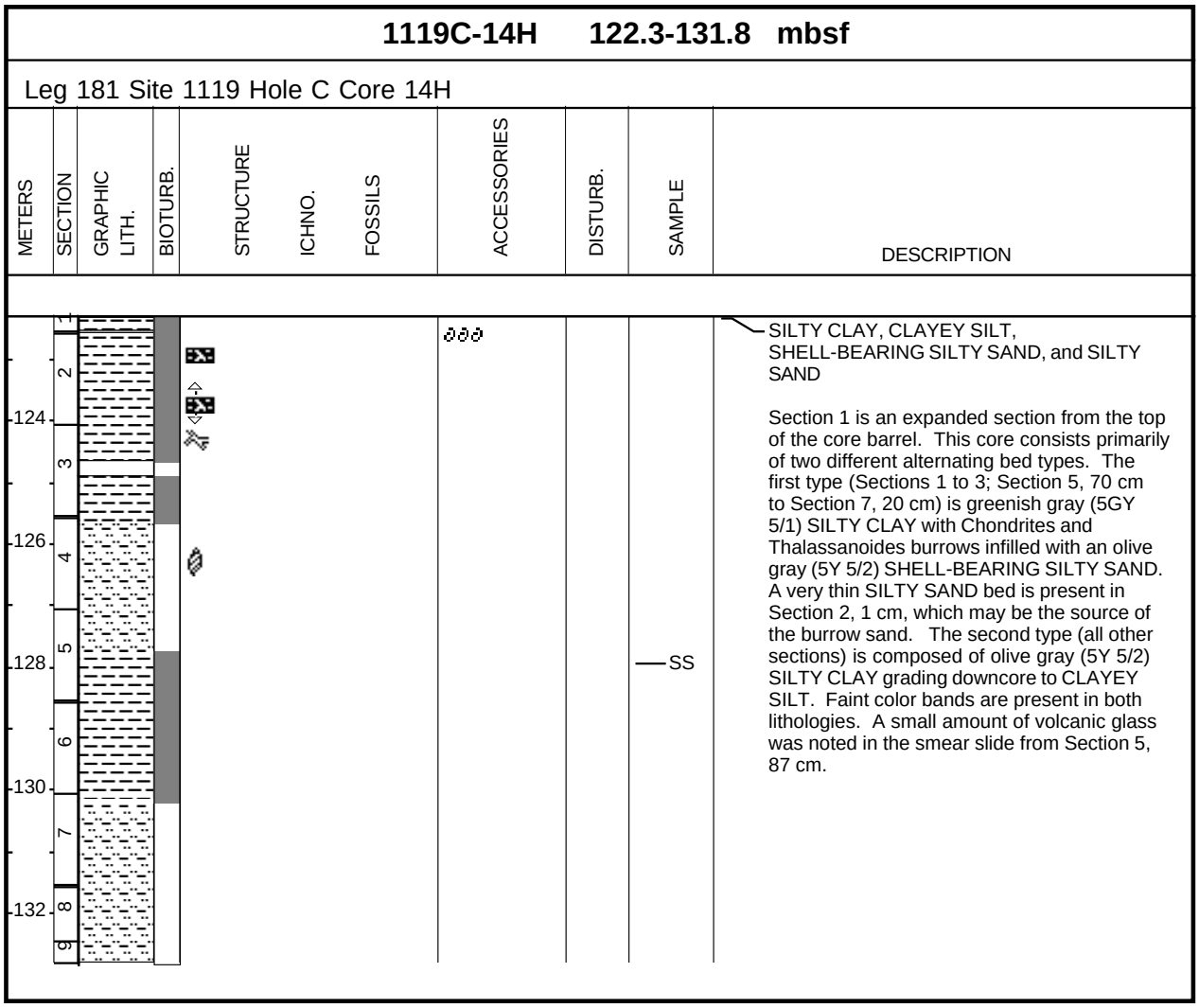
Core Photo


1119C-12H 103.3-112.8 mbsf
Leg 181 Site 1119 Hole C Core 12H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
104
106
108
110
112
1
2
3
4
5
6
7
SILTY CLAY and SILTY SAND
This core contains greenish gray (5GY 5/1) SILTY CLAY (Section 1 to Section 2, 30 cm; Section 2, 125 cm, to Section 4, 30 cm; Section 4, 130 cm, to Section 5, 5 cm; Section 6, 30 cm, to the base of the core) alternating with beds of olive gray (5Y 5/1) SILTY CLAY which contain a few olive gray fine sand infills of Chondrites and Thalassanoides burrows. These color cycles have either gradational or bioturbated contacts. Section 5 has olive gray (5Y 5/1) SILTY SAND grading to SILTY CLAY upcore. Shell fragment layers, possibly made up of the bivalve Zygochlamys delicatula, are present in Section 4, 50 cm, and a single intact Zygochlamys delicatula is present in Section 6, 70 cm.

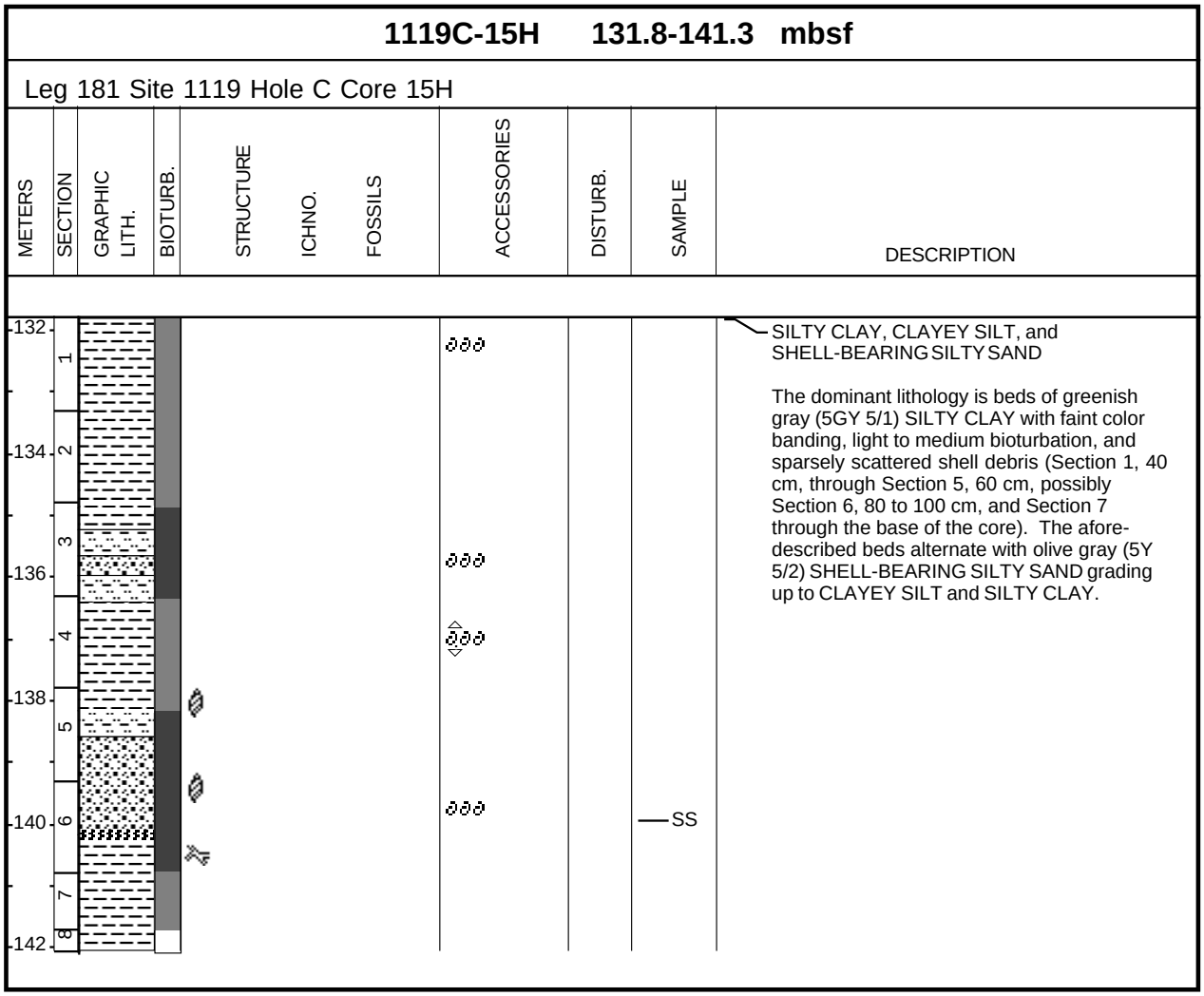
Core Photo


1119C-13H 112.8-122.3 mbsf
Leg 181 Site 1119 Hole C Core 13H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
114
116
118
120
122
1
2
3
4
5
6
7
8
SS
SS
SILTY CLAY, CLAYEY SILT, and SANDY SILT
This core contains greenish gray (5GY 5/1) SILTY CLAY, lightly bioturbated with weak color bands, and rare scattered shell fragments. In Section 5, greenish gray cycle grades imperceptibly downcore to olive gray (5Y 5/2) SILTY CLAY and CLAYEY SILT and finally SANDY SILT at the base of Section 7.

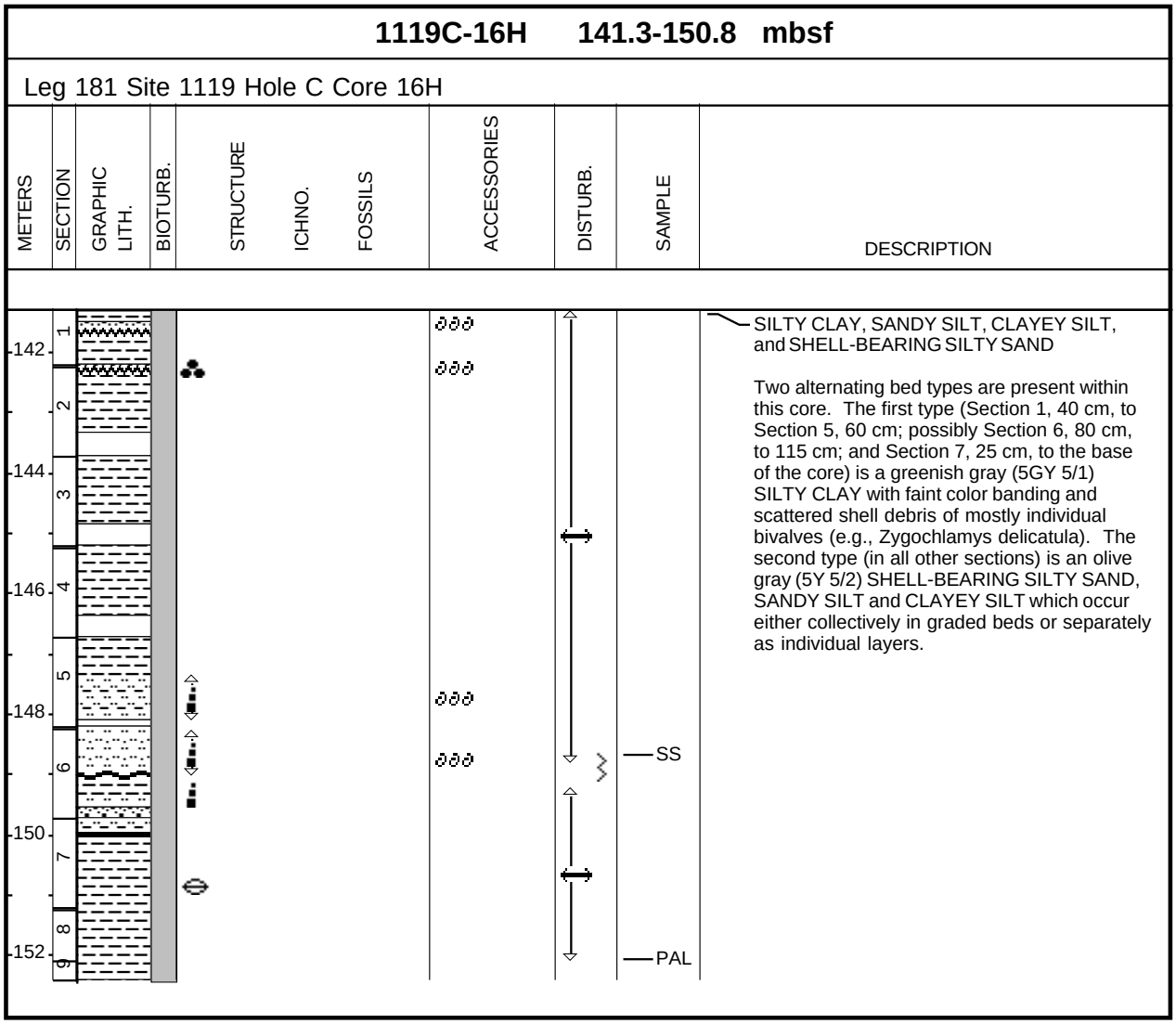
Core Photo


1119C-14H 122.3-131.8 mbsf
Leg 181 Site 1119 Hole C Core 14H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
124
126
128
130
132
1
2
3
4
5
6
7
8
9
SS
SILTY CLAY, CLAYEY SILT, SHELL-BEARING SILTY SAND, and SILTY SAND
Section 1 is an expanded section from the top of the core barrel. This core consists primarily of two different alternating bed types. The first type (Sections 1 to 3; Section 5, 70 cm to Section 7, 20 cm) is greenish gray (5GY 5/1) SILTY CLAY with Chondrites and Thalassanoides burrows infilled with an olive gray (5Y 5/2) SHELL-BEARING SILTY SAND. A very thin SILTY SAND bed is present in Section 2, 1 cm, which may be the source of the burrow sand. The second type (all other sections) is composed of olive gray (5Y 5/2) SILTY CLAY grading downcore to CLAYEY SILT. Faint color bands are present in both lithologies. A small amount of volcanic glass was noted in the smear slide from Section 5, 87 cm.

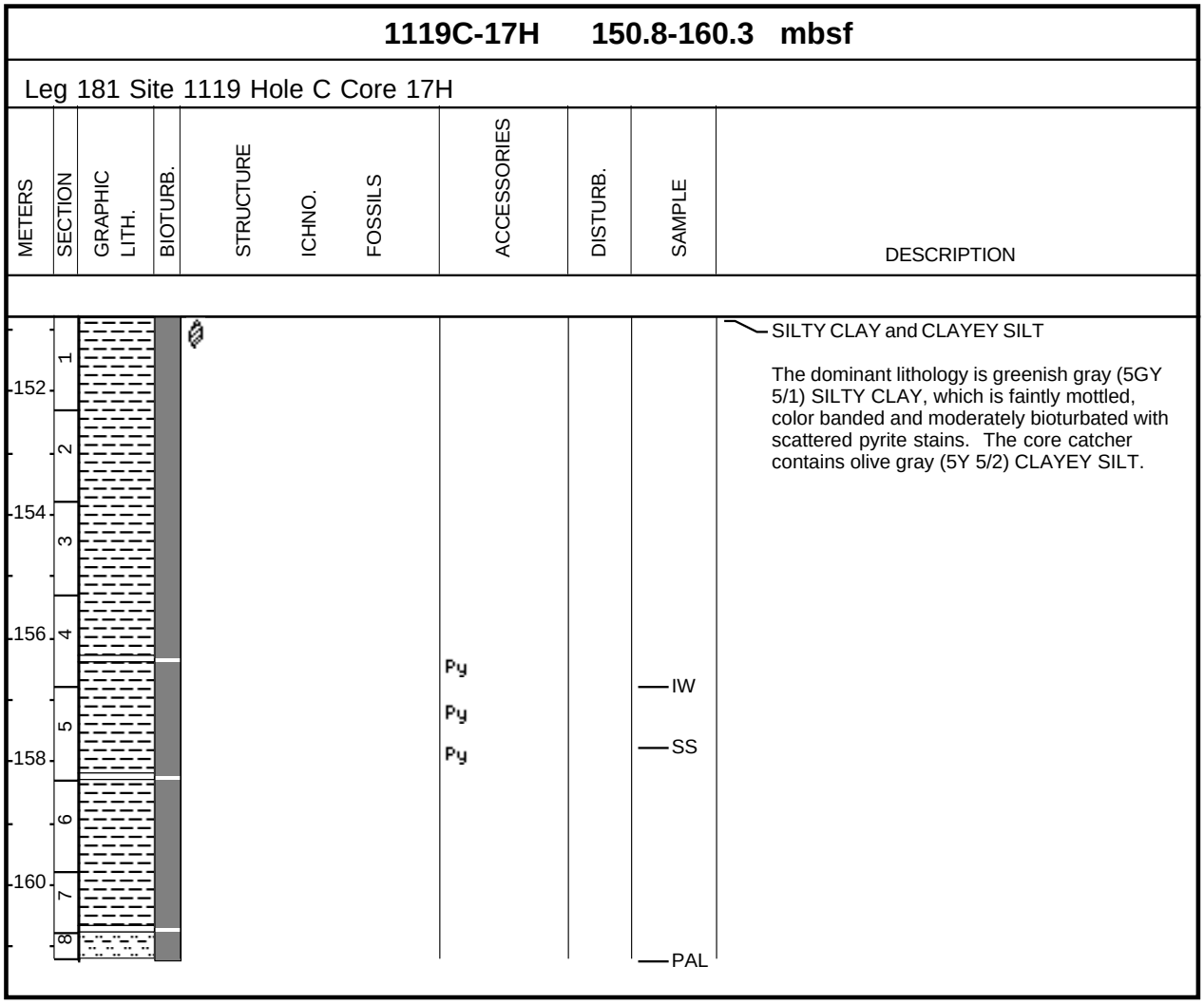
Core Photo


1119C-15H 131.8-141.3 mbsf
Leg 181 Site 1119 Hole C Core 15H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
132
134
136
138
140
142
1
2
3
4
5
6
7
8
SS
SILTY CLAY, CLAYEY SILT, and SHELL-BEARING SILTY SAND
The dominant lithology is beds of greenish gray (5GY 5/1) SILTY CLAY with faint color banding, light to medium bioturbation, and sparsely scattered shell debris (Section 1, 40 cm, through Section 5, 60 cm, possibly Section 6, 80 to 100 cm, and Section 7 through the base of the core). The afore-described beds alternate with olive gray (5Y 5/2) SHELL-BEARING SILTY SAND grading up to CLAYEY SILT and SILTY CLAY.

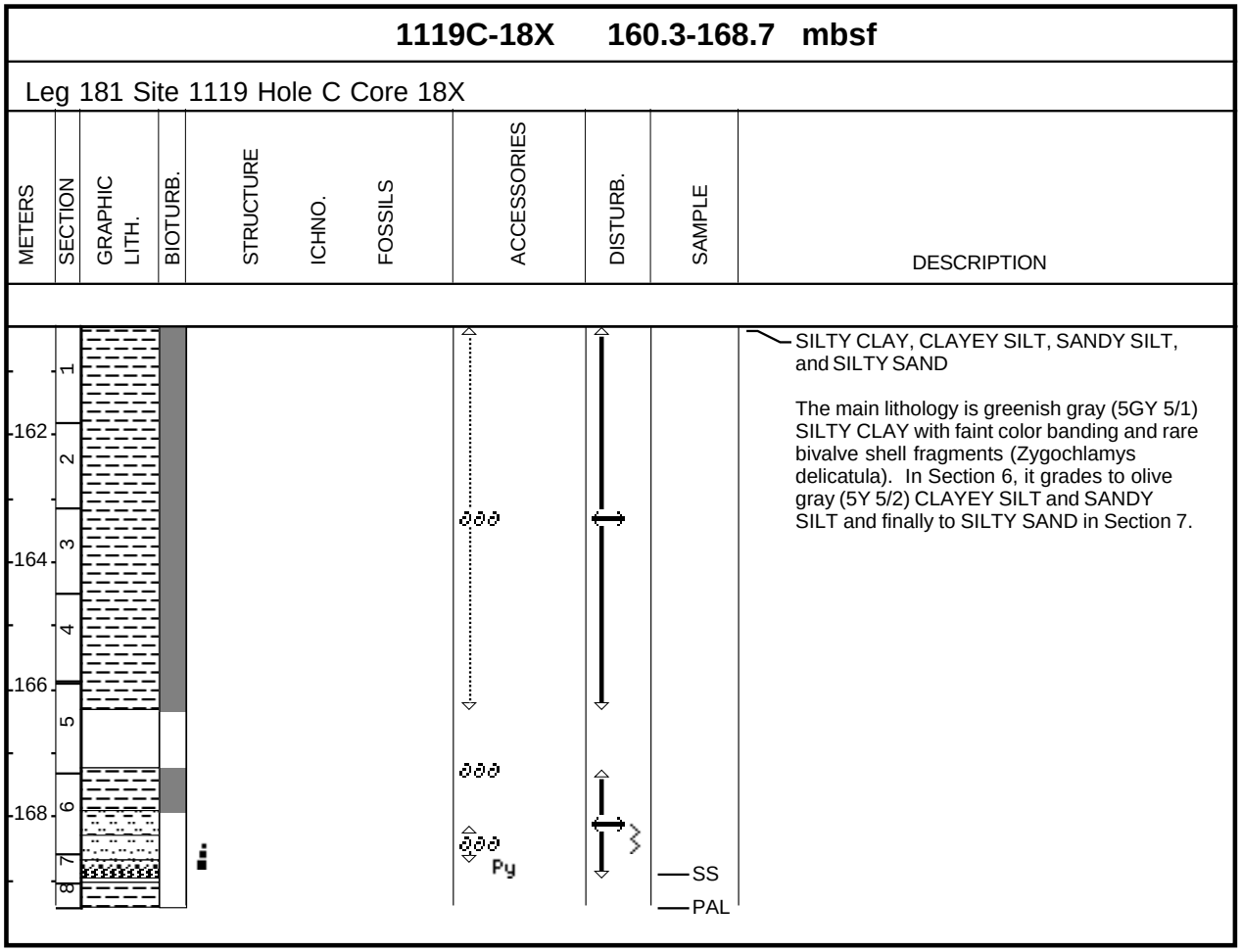
Core Photo


1119C-16H 141.3-150.8 mbsf
Leg 181 Site 1119 Hole C Core 16H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
142
144
146
148
150
152
1
2
3
4
5
6
7
8
9
SS
PAL
SILTY CLAY, SANDY SILT, CLAYEY SILT, and SHELL-BEARING SILTY SAND
Two alternating bed types are present within this core. The first type (Section 1, 40 cm, to Section 5, 60 cm; possibly Section 6, 80 cm, to 115 cm; and Section 7, 25 cm, to the base of the core) is a greenish gray (5GY 5/1) SILTY CLAY with faint color banding and scattered shell debris of mostly individual bivalves (e.g., Zygochlamys delicatula). The second type (in all other sections) is an olive gray (5Y 5/2) SHELL-BEARING SILTY SAND, SANDY SILT and CLAYEY SILT which occur either collectively in graded beds or separately as individual layers.

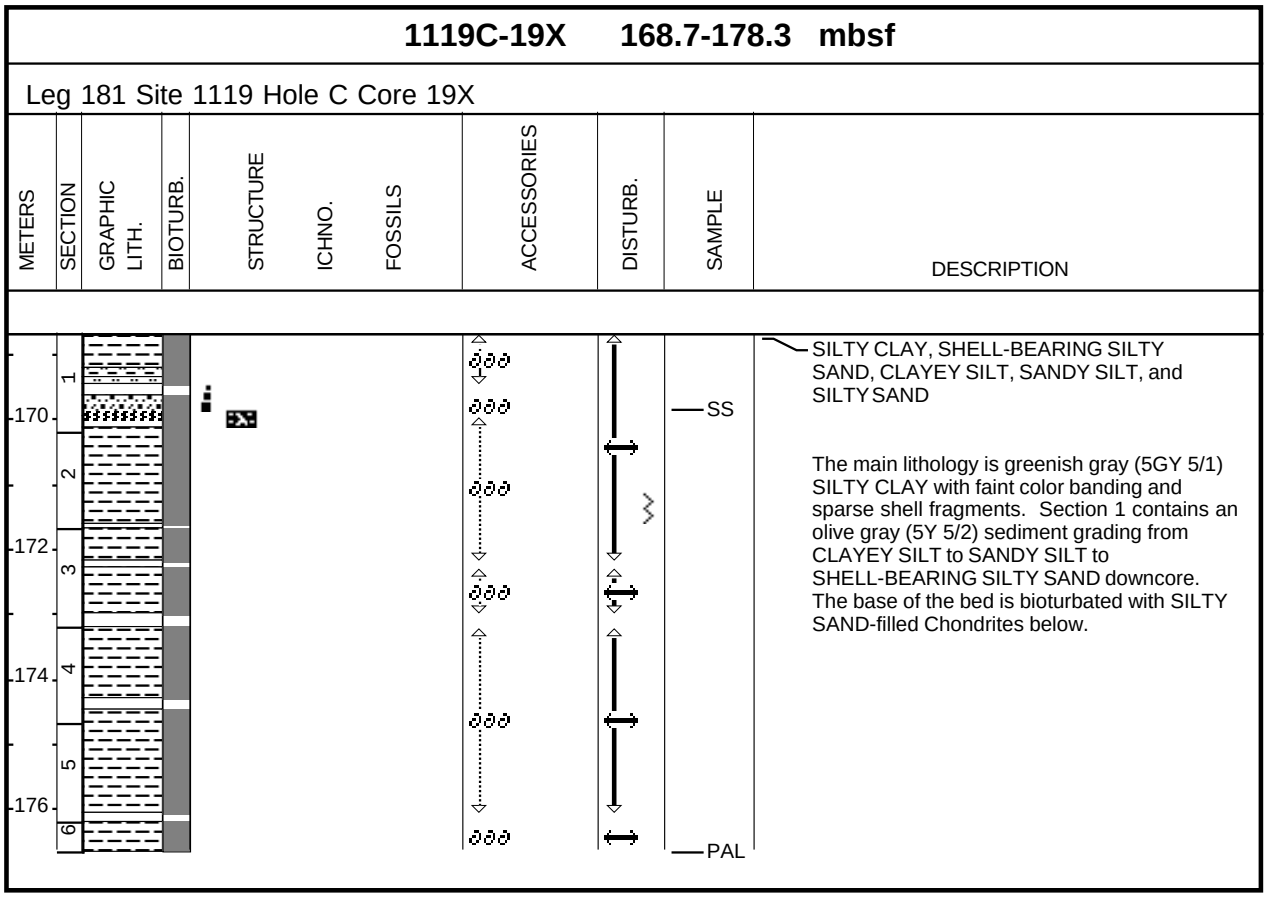
Core Photo


1119C-17H 150.8-160.3 mbsf
Leg 181 Site 1119 Hole C Core 17H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
152
154
156
158
160
1
2
3
4
5
6
7
8
Py
Py
Py
IW
SS
PAL
SILTY CLAY and CLAYEY SILT
The dominant lithology is greenish gray (5GY 5/1) SILTY CLAY, which is faintly mottled, color banded and moderately bioturbated with scattered pyrite stains. The core catcher contains olive gray (5Y 5/2) CLAYEY SILT.

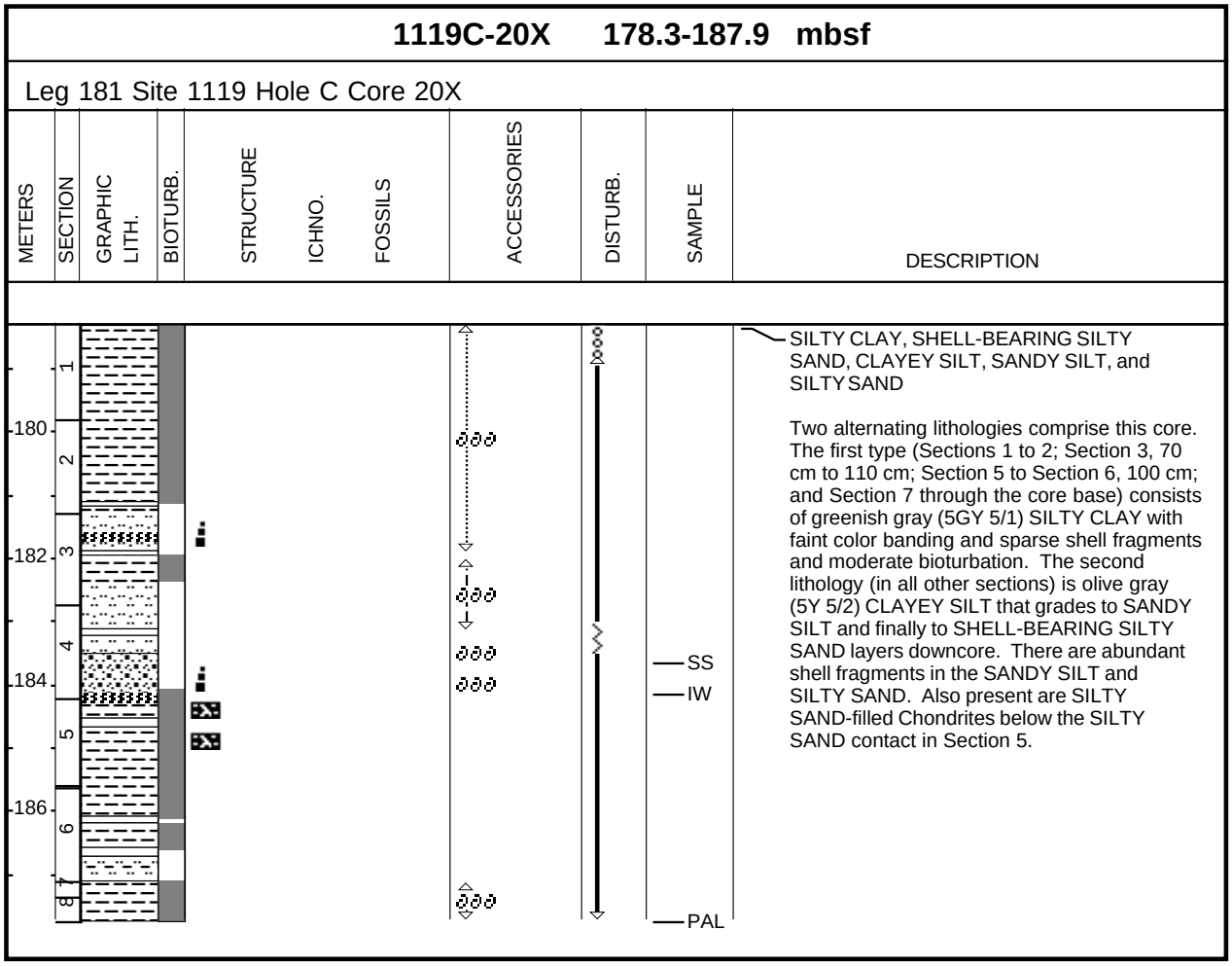
Core Photo


1119C-18X 160.3-168.7 mbsf
Leg 181 Site 1119 Hole C Core 18X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
162
164
166
168
1
2
3
4
5
6
7
Py
SS
PAL
SILTY CLAY, CLAYEY SILT, SANDY SILT, and SILTY SAND
The main lithology is greenish gray (5GY 5/1) SILTY CLAY with faint color banding and rare bivalve shell fragments (Zygochlamys delicatula). In Section 6, it grades to olive gray (5Y 5/2) CLAYEY SILT and SANDY SILT and finally to SILTY SAND in Section 7.

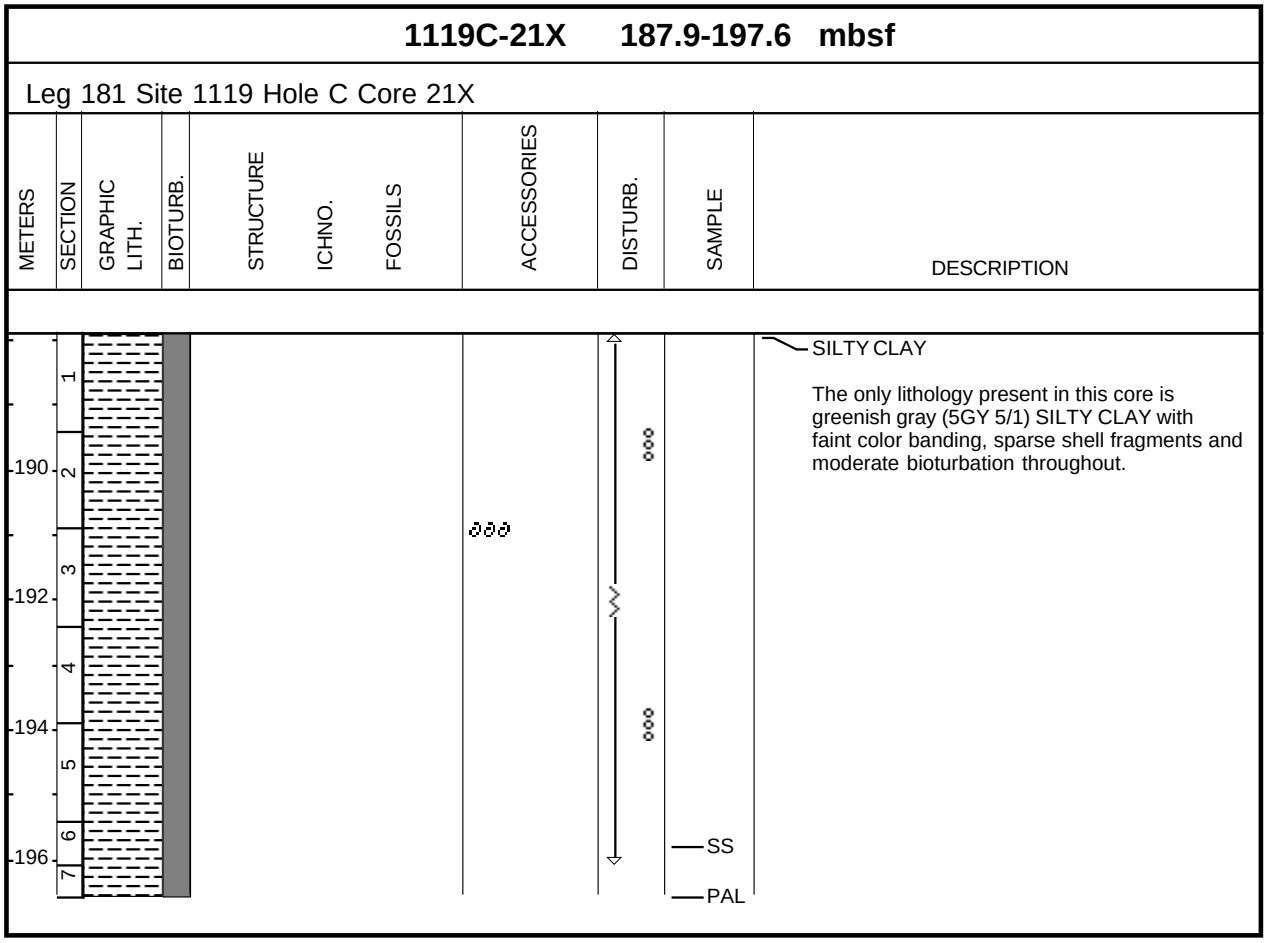
Core Photo


1119C-19X 168.7-178.3 mbsf
Leg 181 Site 1119 Hole C Core 19X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
170
172
174
176
1
2
3
4
5
6
SS
PAL
SILTY CLAY, SHELL-BEARING SILTY SAND, CLAYEY SILT, SANDY SILT, and SILTY SAND
The main lithology is greenish gray (5GY 5/1) SILTY CLAY with faint color banding and sparse shell fragments. Section 1 contains an olive gray (5Y 5/2) sediment grading from CLAYEY SILT to SANDY SILT to SHELL-BEARING SILTY SAND downcore. The base of the bed is bioturbated with SILTY SAND-filled Chondrites below.

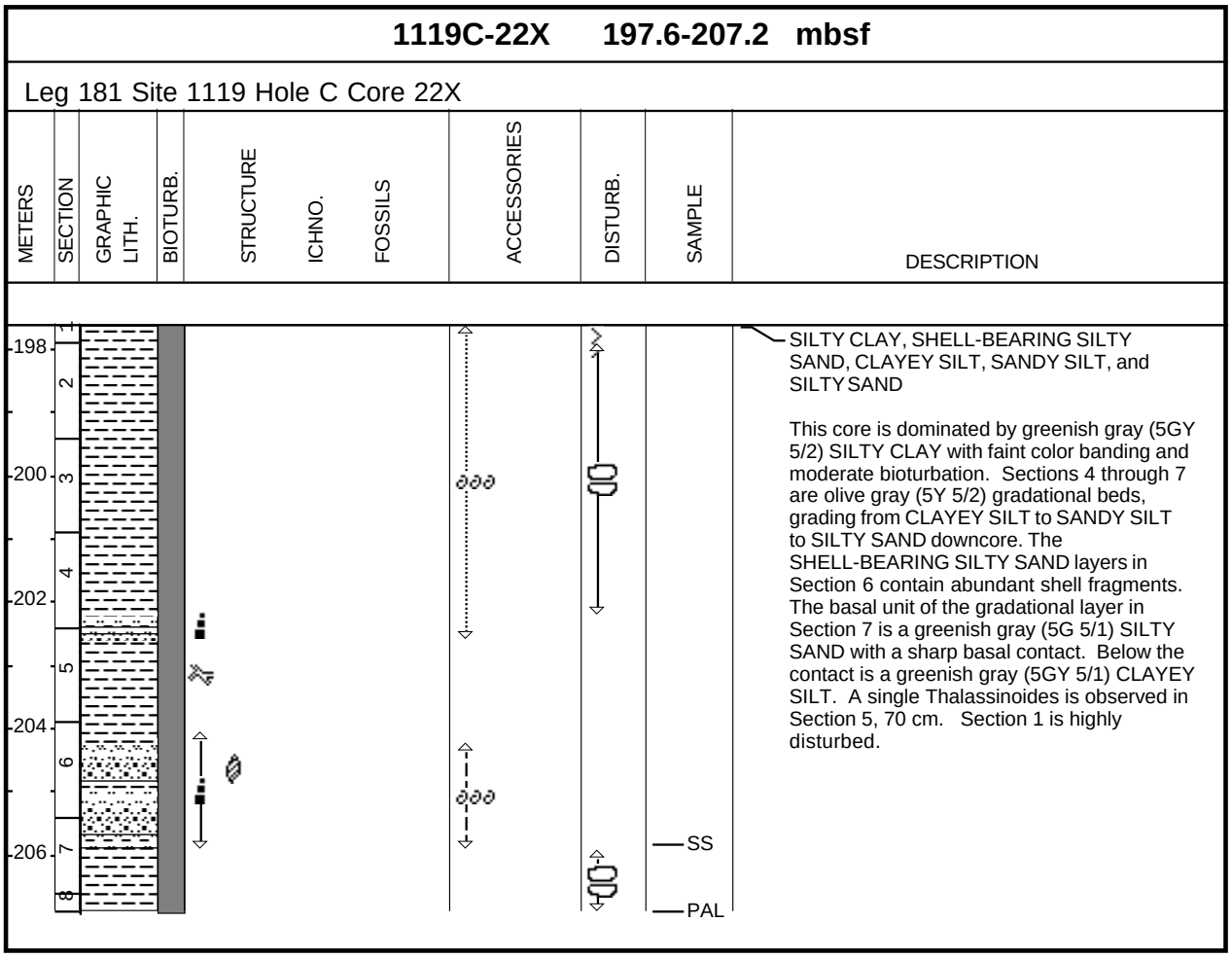
Core Photo


1119C-20X 178.3-187.9 mbsf
Leg 181 Site 1119 Hole C Core 20X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
180
182
184
186
1
2
3
4
5
6
7
8
SS
IW
PAL
SILTY CLAY, SHELL-BEARING SILTY SAND, CLAYEY SILT, SANDY SILT, and SILTY SAND
Two alternating lithologies comprise this core. The first type (Sections 1 to 2; Section 3, 70 cm to 110 cm; Section 5 to Section 6, 100 cm; and Section 7 through the core base) consists of greenish gray (5GY 5/1) SILTY CLAY with faint color banding and sparse shell fragments and moderate bioturbation. The second lithology (in all other sections) is olive gray (5Y 5/2) CLAYEY SILT that grades to SANDY SILT and finally to SHELL-BEARING SILTY SAND layers downcore. There are abundant shell fragments in the SANDY SILT and SILTY SAND. Also present are SILTY SAND-filled Chondrites below the SILTY SAND contact in Section 5.

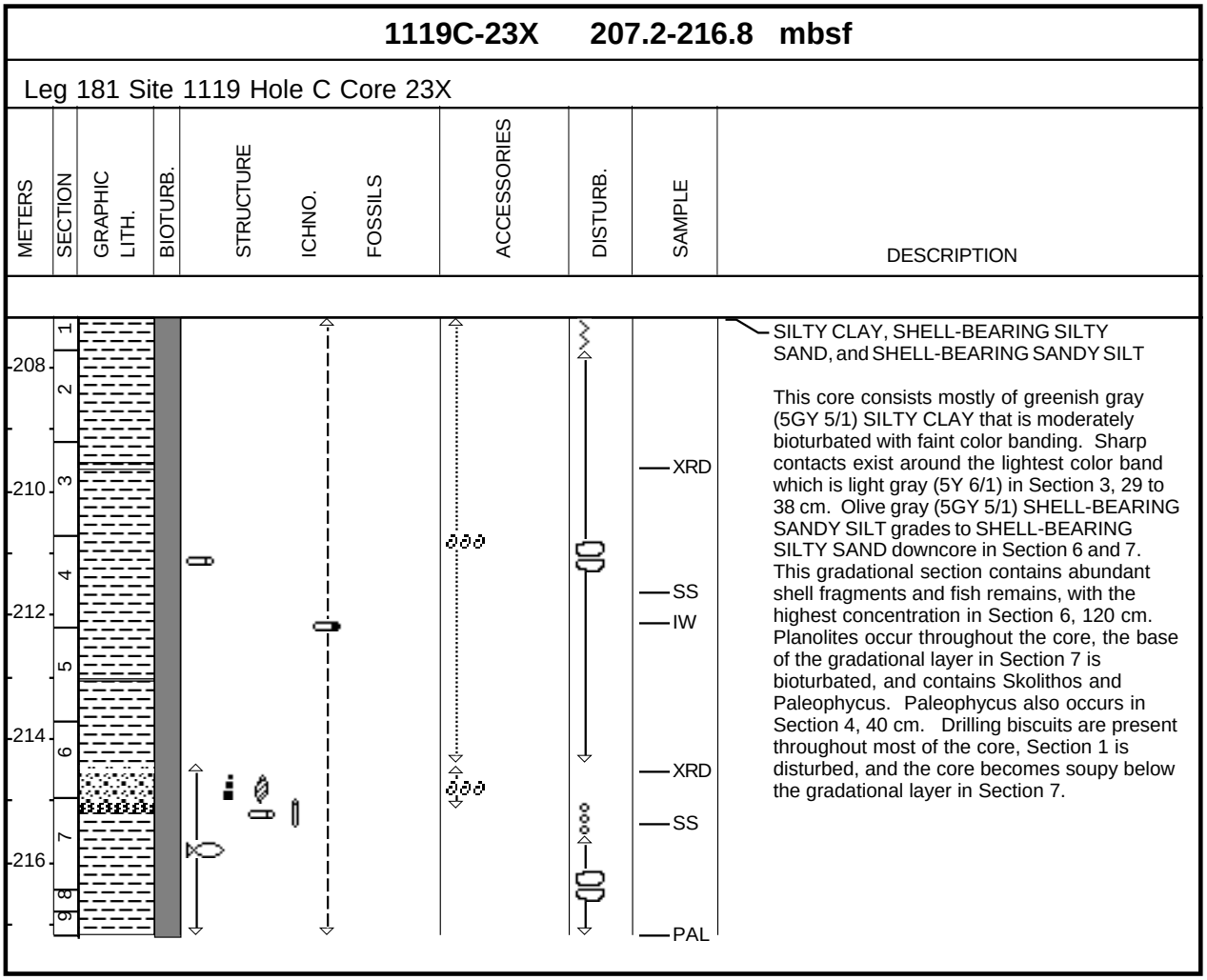
Core Photo


1119C-21X 187.9-197.6 mbsf
Leg 181 Site 1119 Hole C Core 21X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
190
192
194
196
1
2
3
4
5
6
7
SILTY CLAY
The only lithology present in this core is greenish gray (5GY 5/1) SILTY CLAY with faint color banding, sparse shell fragments and moderate bioturbation throughout.
SS
PAL

Core Photo

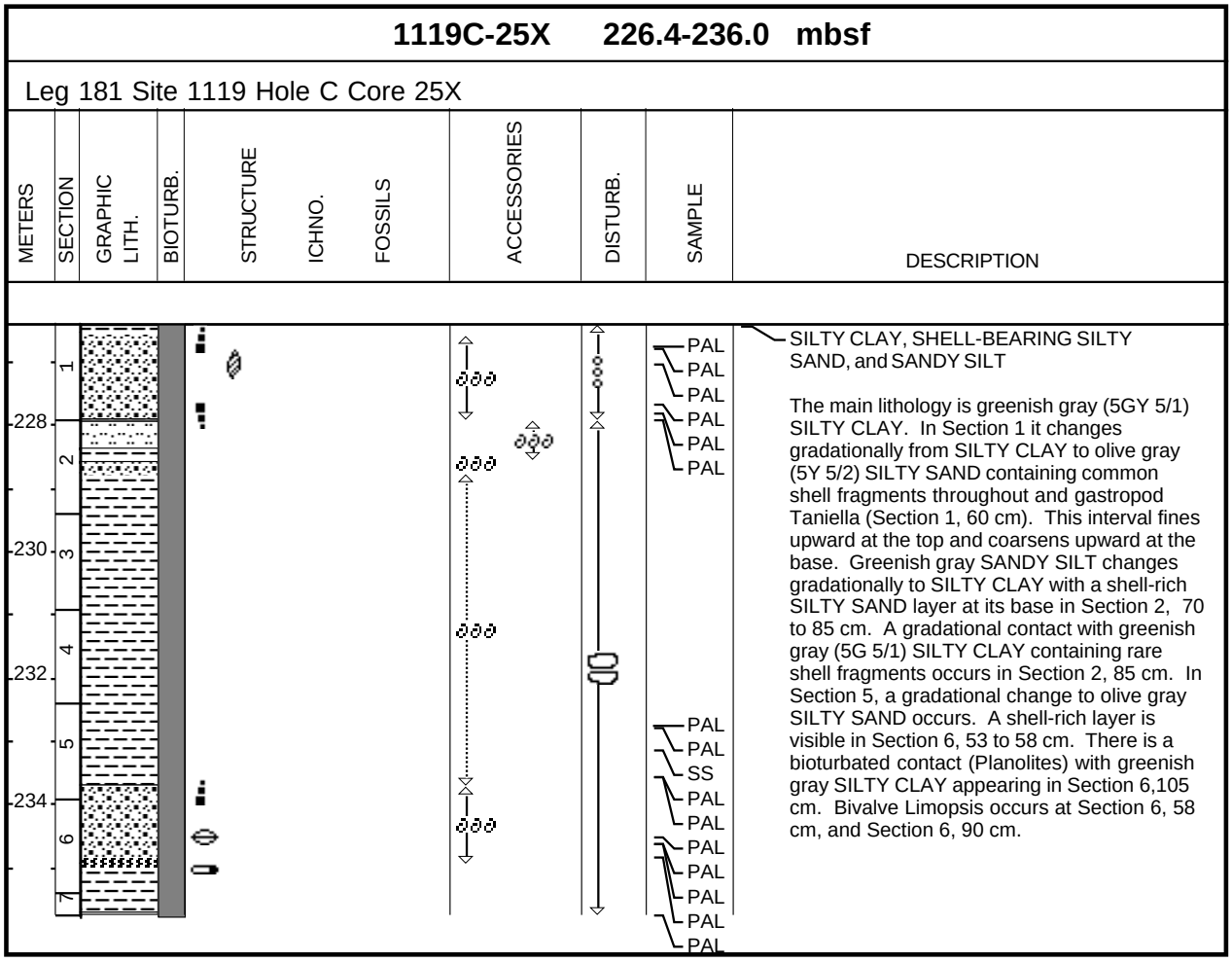

1119C-22X 197.6-207.2 mbsf
Leg 181 Site 1119 Hole C Core 22X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
198
200
202
204
206
1
2
3
4
5
6
7
8
SS
PAL
SILTY CLAY, SHELL-BEARING SILTY SAND, CLAYEY SILT, SANDY SILT, and SILTY SAND
This core is dominated by greenish gray (5GY 5/2) SILTY CLAY with faint color banding and moderate bioturbation. Sections 4 through 7 are olive gray (5Y 5/2) gradational beds, grading from CLAYEY SILT to SANDY SILT to SILTY SAND downcore. The SHELL-BEARING SILTY SAND layers in Section 6 contain abundant shell fragments. The basal unit of the gradational layer in Section 7 is a greenish gray (5G 5/1) SILTY SAND with a sharp basal contact. Below the contact is a greenish gray (5GY 5/1) CLAYEY SILT. A single Thalassinoides is observed in Section 5, 70 cm. Section 1 is highly disturbed.

Core Photo

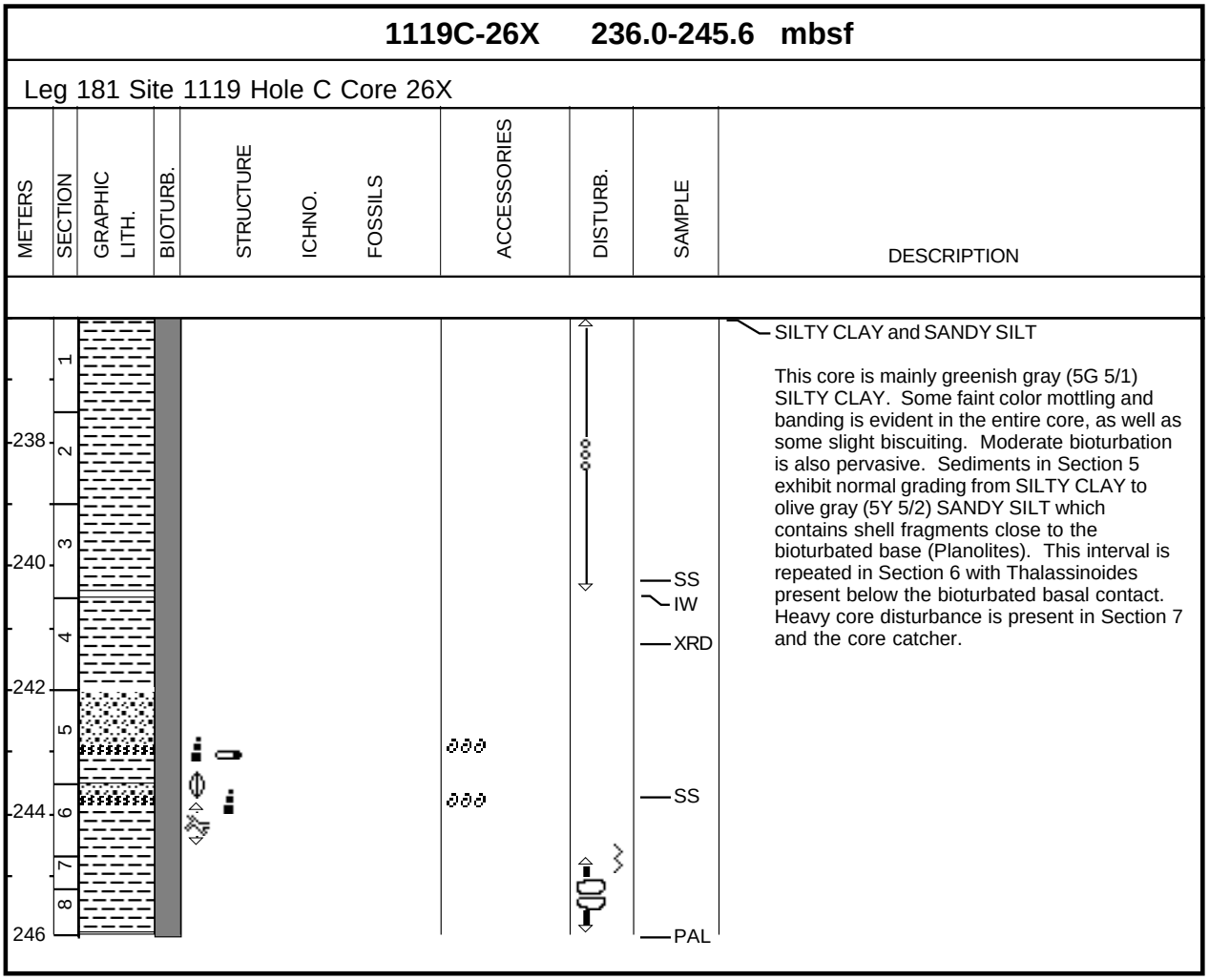


1119C-24X NO RECOVERY

Core Photo


1119C-25X 226.4-236.0 mbsf
Leg 181 Site 1119 Hole C Core 25X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
228
230
232
234
1
2
3
4
5
6
7
PAL
PAL
PAL
PAL
PAL
PAL
PAL
PAL
SS
PAL
PAL
PAL
PAL
PAL
PAL
SILTY CLAY, SHELL-BEARING SILTY SAND, and SANDY SILT
The main lithology is greenish gray (5GY 5/1) SILTY CLAY. In Section 1 it changes gradationally from SILTY CLAY to olive gray (5Y 5/2) SILTY SAND containing common shell fragments throughout and gastropod Taniella (Section 1, 60 cm). This interval fines upward at the top and coarsens upward at the base. Greenish gray SANDY SILT changes gradationally to SILTY CLAY with a shell-rich SILTY SAND layer at its base in Section 2, 70 to 85 cm. A gradational contact with greenish gray (5G 5/1) SILTY CLAY containing rare shell fragments occurs in Section 2, 85 cm. In Section 5, a gradational change to olive gray SILTY SAND occurs. A shell-rich layer is visible in Section 6, 53 to 58 cm. There is a bioturbated contact (Planolites) with greenish gray SILTY CLAY appearing in Section 6,105 cm. Bivalve Limopsis occurs at Section 6, 58 cm, and Section 6, 90 cm.

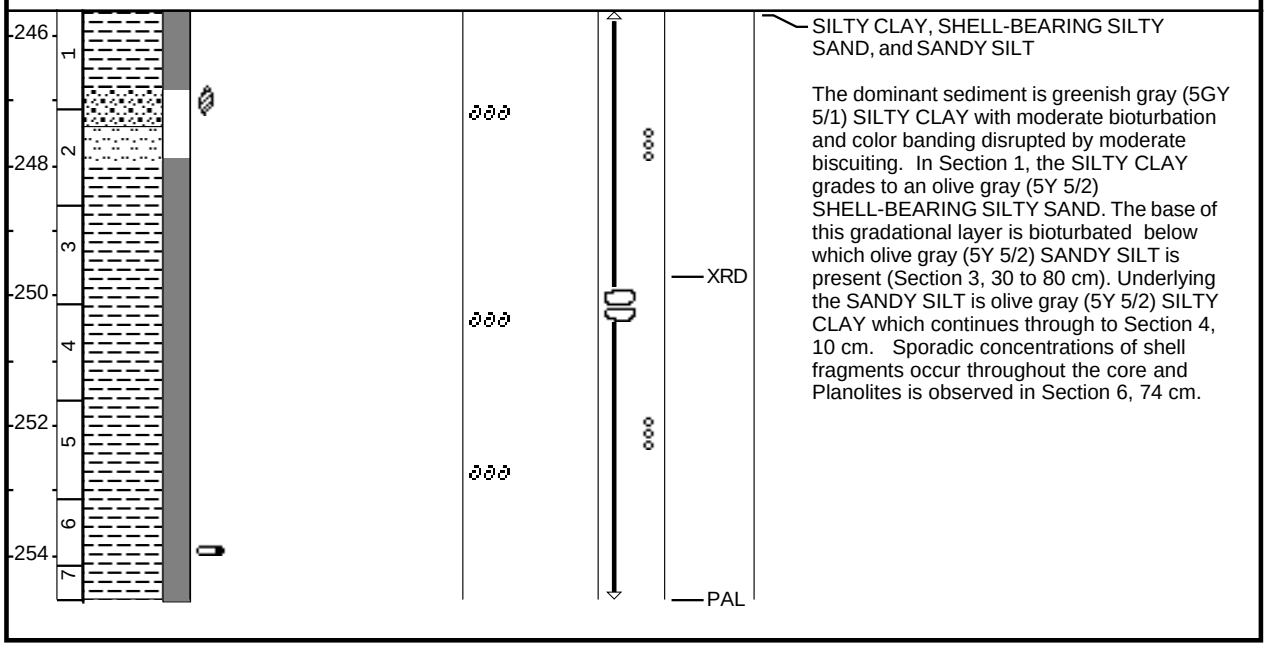
Core Photo


1119C-26X 236.0-245.6 mbsf
Leg 181 Site 1119 Hole C Core 26X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
238
240
242
244
246
1
2
3
4
5
6
7
8
SS
IW
XRD
SS
PAL
SILTY CLAY and SANDY SILT
This core is mainly greenish gray (5G 5/1) SILTY CLAY. Some faint color mottling and banding is evident in the entire core, as well as some slight biscuiting. Moderate bioturbation is also pervasive. Sediments in Section 5 exhibit normal grading from SILTY CLAY to olive gray (5Y 5/2) SANDY SILT which contains shell fragments close to the bioturbated base (Planolites). This interval is repeated in Section 6 with Thalassinoides present below the bioturbated basal contact. Heavy core disturbance is present in Section 7 and the core catcher.

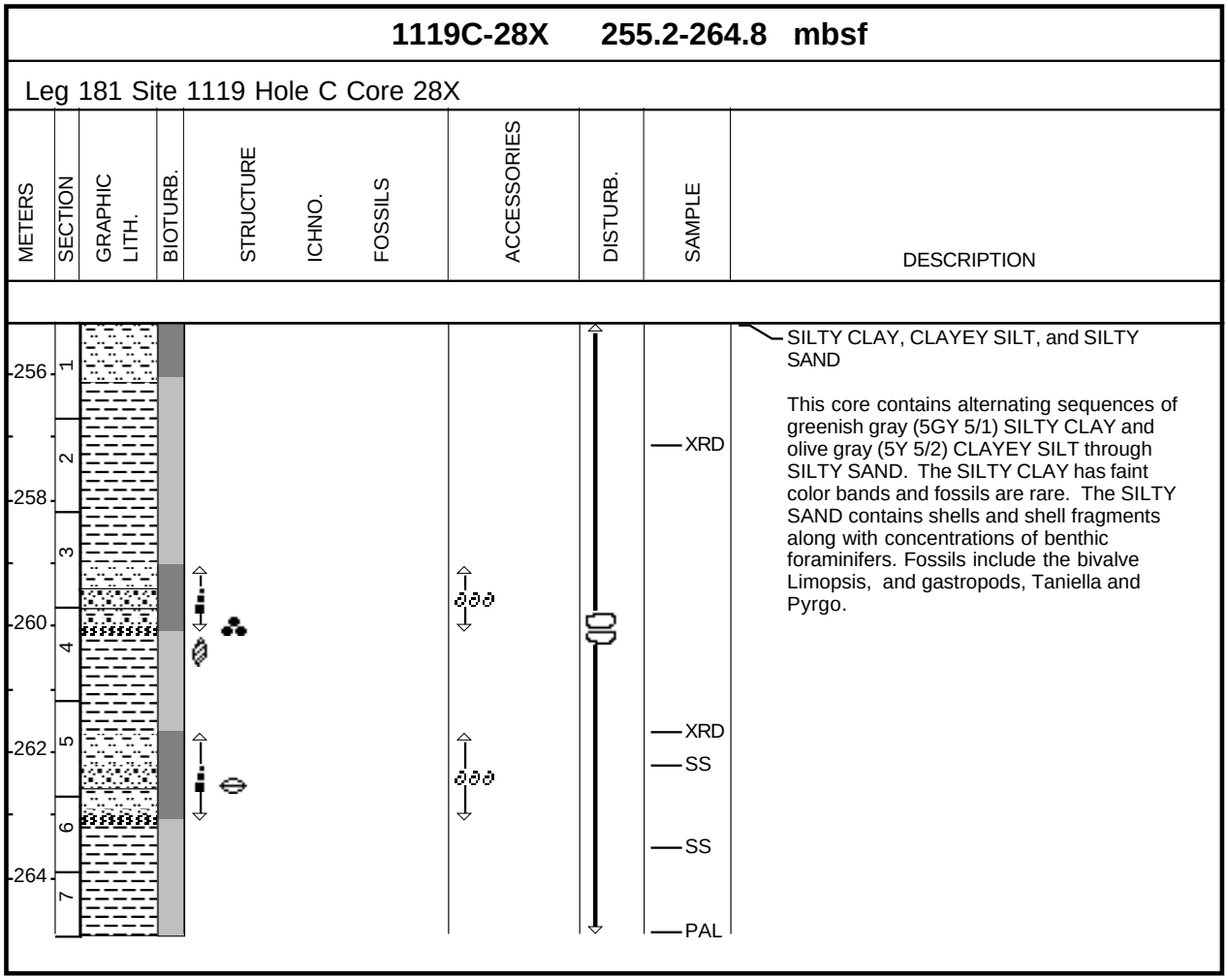
Core Photo

1119C-27X 245.6-255.2 mbsf

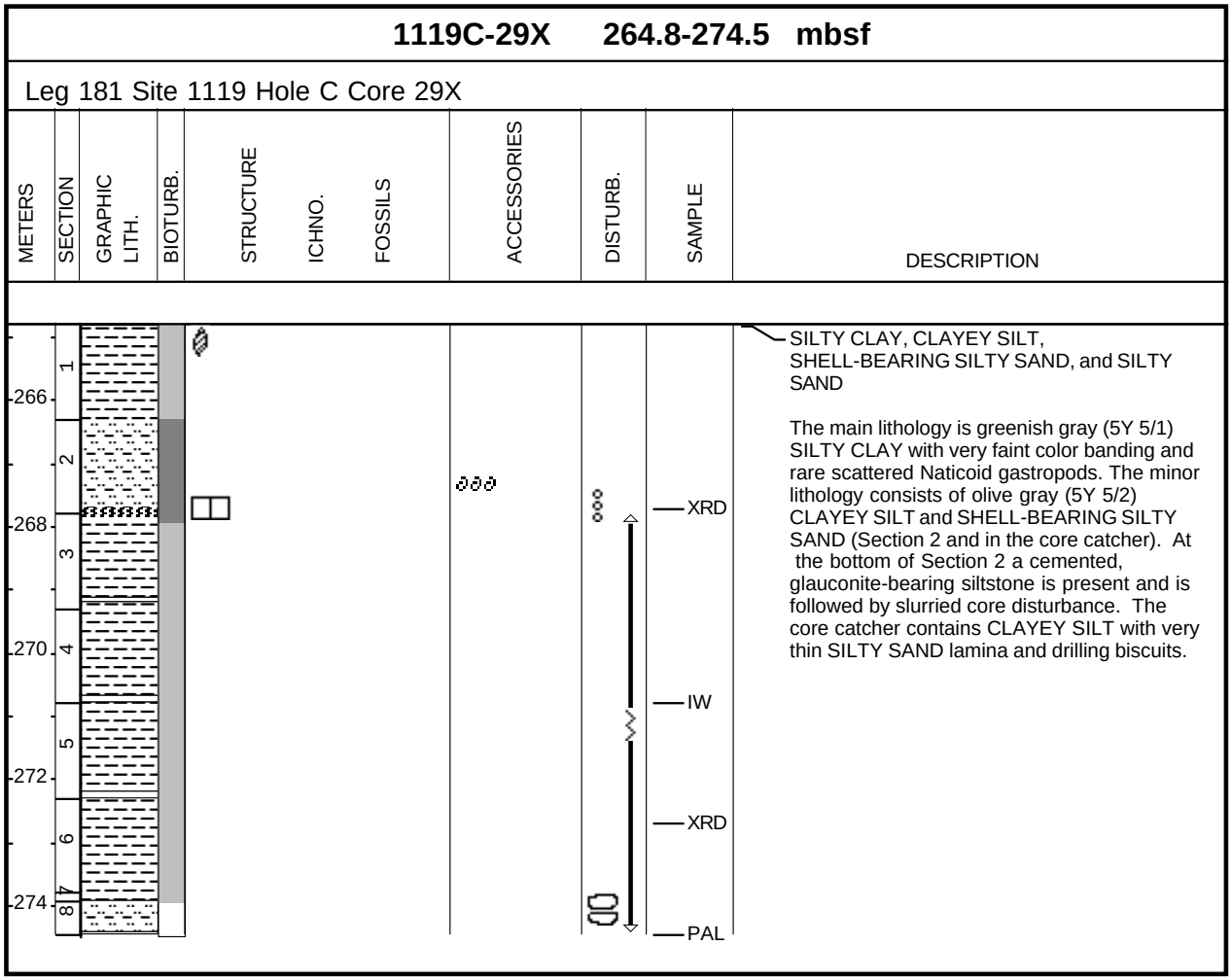
Leg 181 Site 1119 Hole C Core 27X



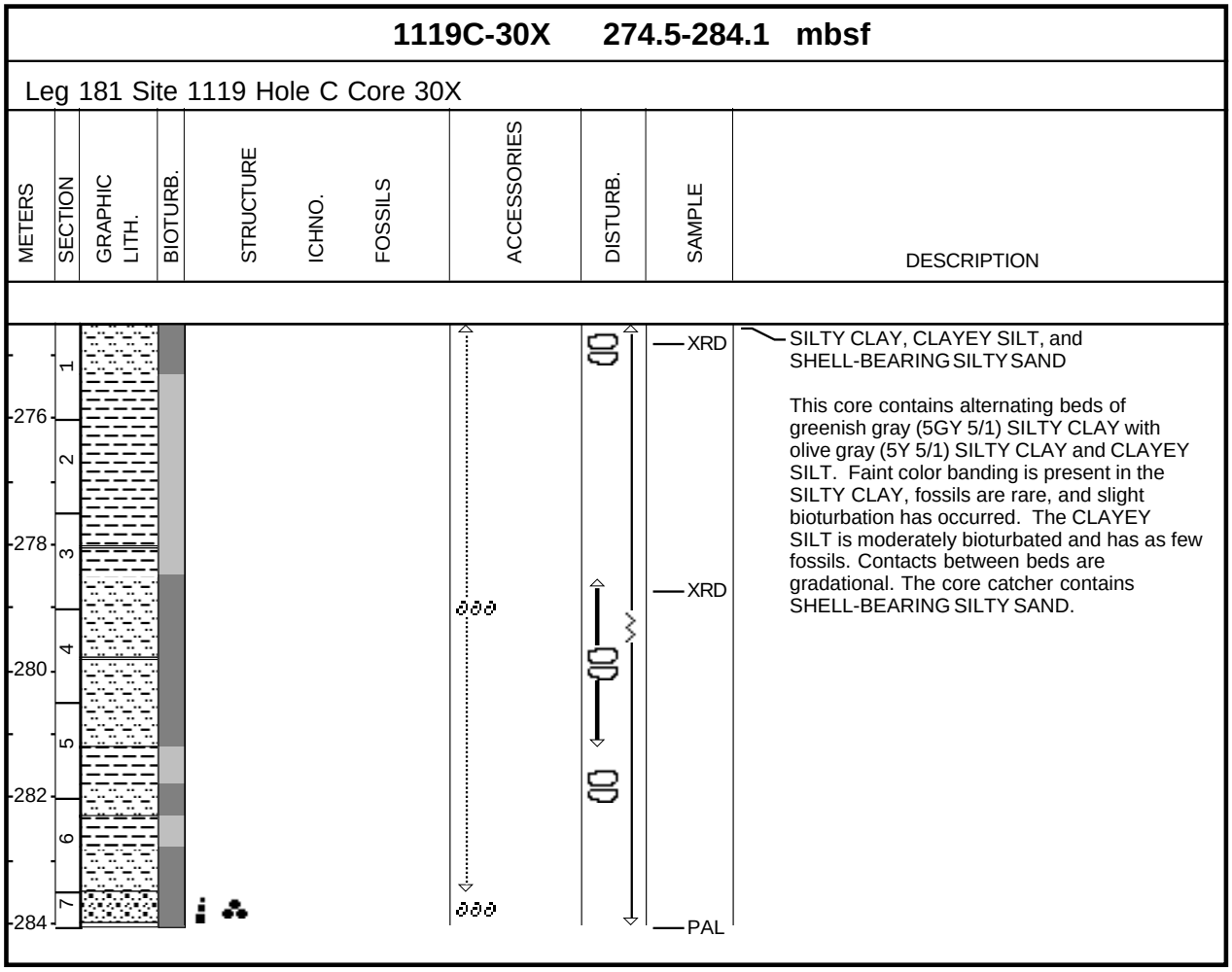
Core Photo


1119C-28X 255.2-264.8 mbsf
Leg 181 Site 1119 Hole C Core 28X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
256
258
260
262
264
1
2
3
4
5
6
7
XRD
XRD
SS
SS
PAL
SILTY CLAY, CLAYEY SILT, and SILTY SAND
This core contains alternating sequences of greenish gray (5GY 5/1) SILTY CLAY and olive gray (5Y 5/2) CLAYEY SILT through SILTY SAND. The SILTY CLAY has faint color bands and fossils are rare. The SILTY SAND contains shells and shell fragments along with concentrations of benthic foraminifers. Fossils include the bivalve Limopsis, and gastropods, Taniella and Pyrgo.

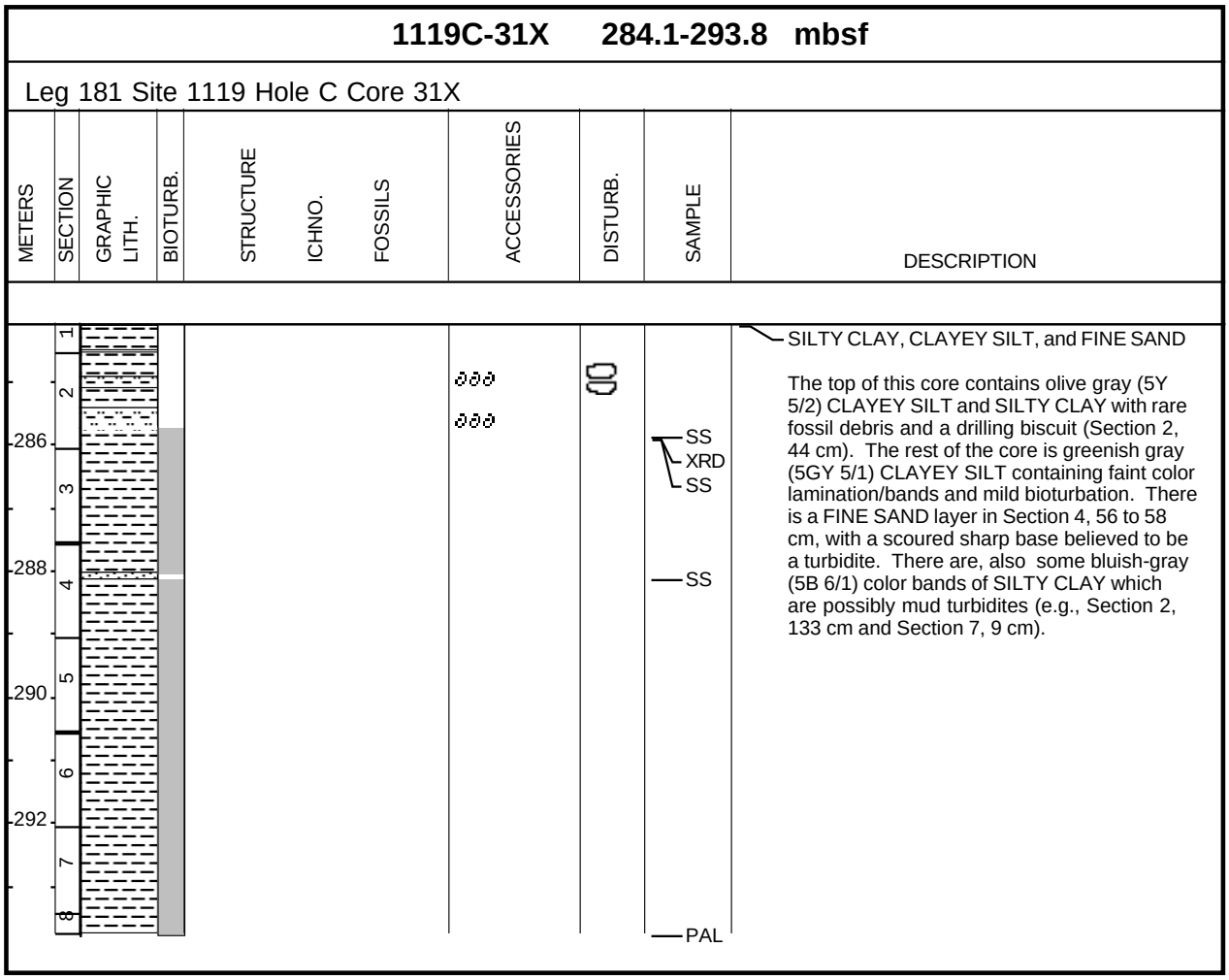
Core Photo


1119C-29X 264.8-274.5 mbsf
Leg 181 Site 1119 Hole C Core 29X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
266
268
270
272
274
1
2
3
4
5
6
7
8
XRD
IW
XRD
PAL
SILTY CLAY, CLAYEY SILT, SHELL-BEARING SILTY SAND, and SILTY SAND
The main lithology is greenish gray (5Y 5/1) SILTY CLAY with very faint color banding and rare scattered Naticoid gastropods. The minor lithology consists of olive gray (5Y 5/2) CLAYEY SILT and SHELL-BEARING SILTY SAND (Section 2 and in the core catcher). At the bottom of Section 2 a cemented, glauconite-bearing siltstone is present and is followed by slurried core disturbance. The core catcher contains CLAYEY SILT with very thin SILTY SAND lamina and drilling biscuits.

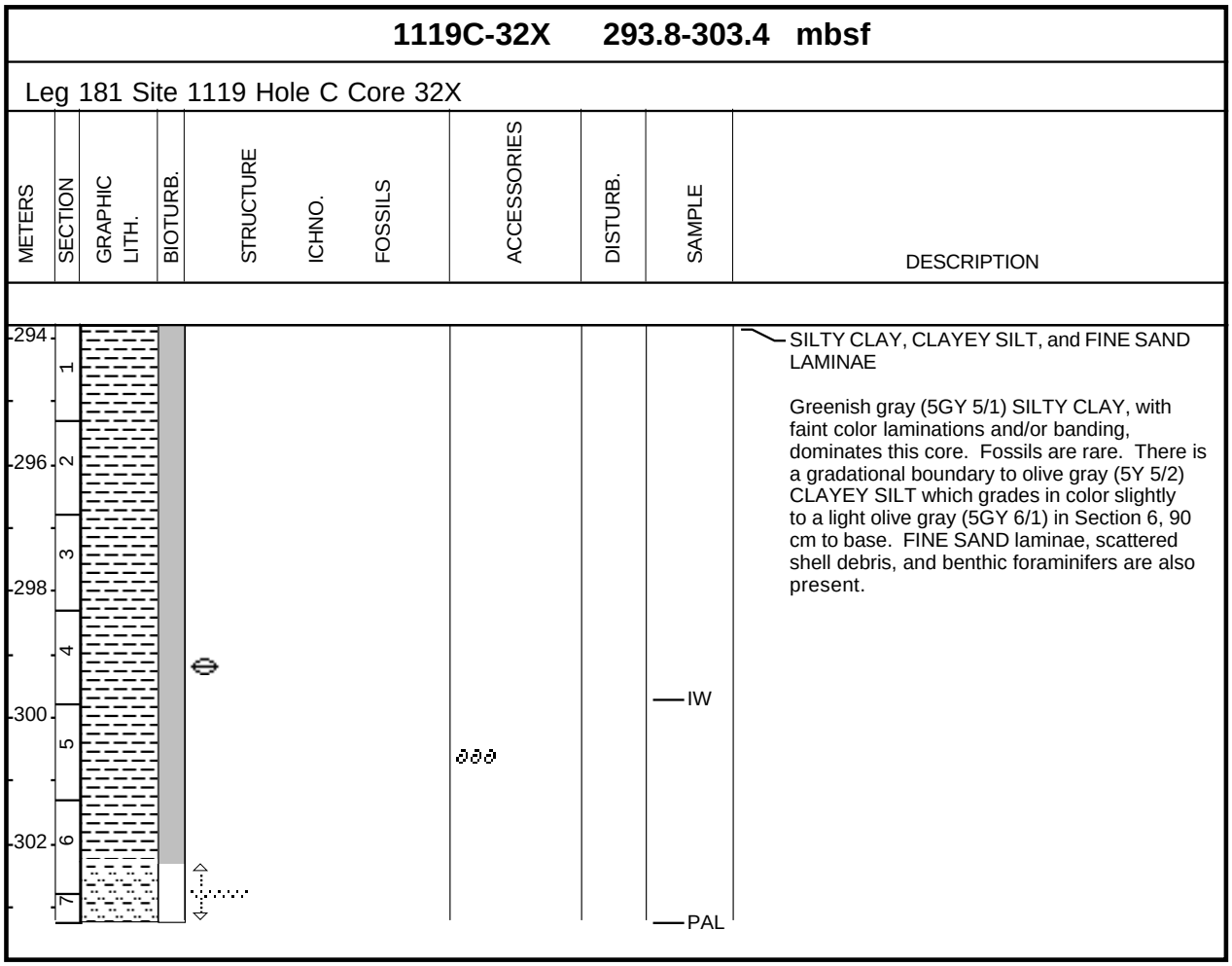
Core Photo


1119C-30X 274.5-284.1 mbsf
Leg 181 Site 1119 Hole C Core 30X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
276
278
280
282
284
1
2
3
4
5
6
7
XRD
XRD
PAL
SILTY CLAY, CLAYEY SILT, and SHELL-BEARING SILTY SAND
This core contains alternating beds of greenish gray (5GY 5/1) SILTY CLAY with olive gray (5Y 5/1) SILTY CLAY and CLAYEY SILT. Faint color banding is present in the SILTY CLAY, fossils are rare, and slight bioturbation has occurred. The CLAYEY SILT is moderately bioturbated and has as few fossils. Contacts between beds are gradational. The core catcher contains SHELL-BEARING SILTY SAND.

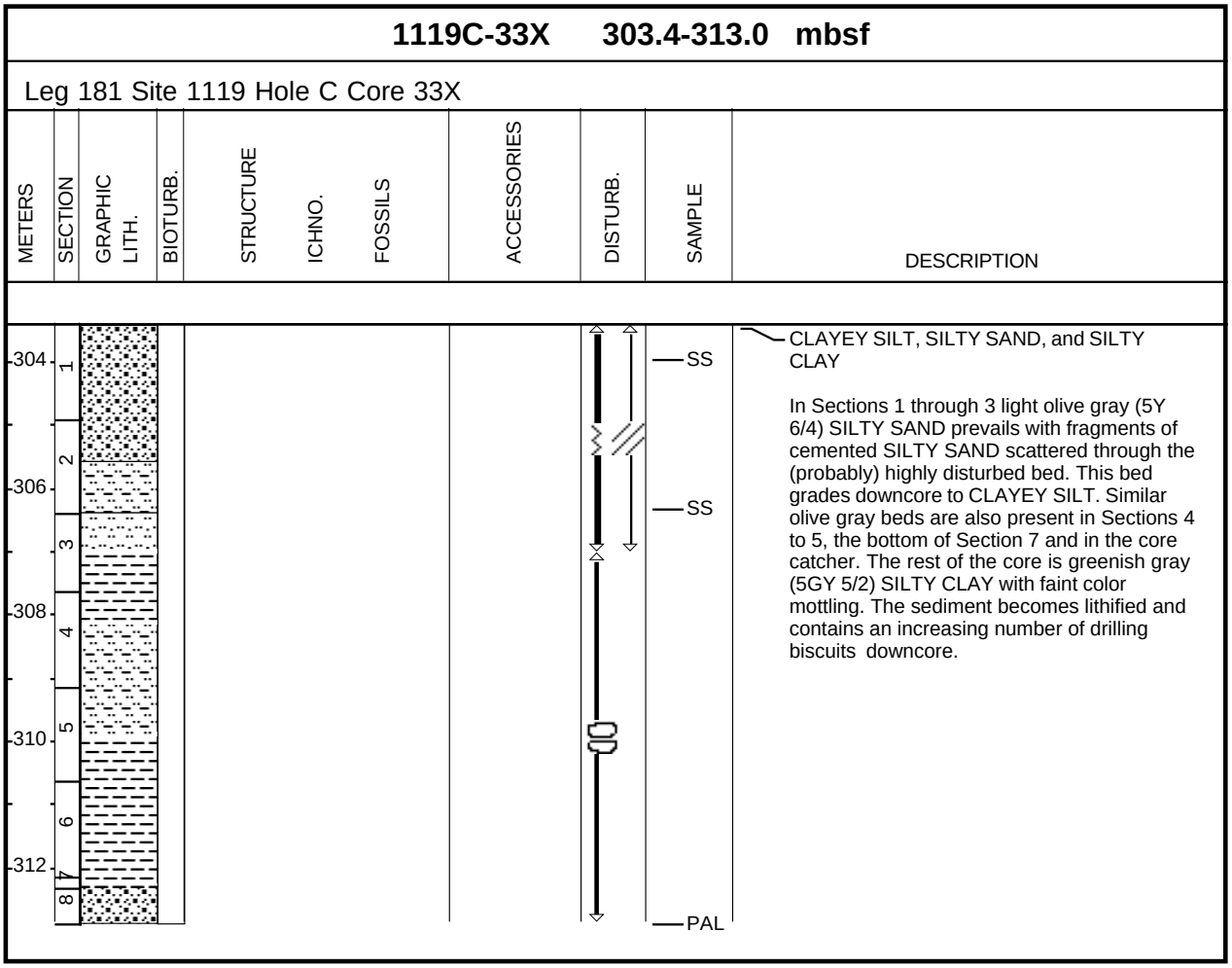
Core Photo


1119C-31X 284.1-293.8 mbsf
Leg 181 Site 1119 Hole C Core 31X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
286
288
290
292
1
2
3
4
5
6
7
8
SS
XRD
SS
SS
PAL
SILTY CLAY, CLAYEY SILT, and FINE SAND
The top of this core contains olive gray (5Y 5/2) CLAYEY SILT and SILTY CLAY with rare fossil debris and a drilling biscuit (Section 2, 44 cm). The rest of the core is greenish gray (5GY 5/1) CLAYEY SILT containing faint color lamination/bands and mild bioturbation. There is a FINE SAND layer in Section 4, 56 to 58 cm, with a scoured sharp base believed to be a turbidite. There are, also some bluish-gray (5B 6/1) color bands of SILTY CLAY which are possibly mud turbidites (e.g., Section 2, 133 cm and Section 7, 9 cm).

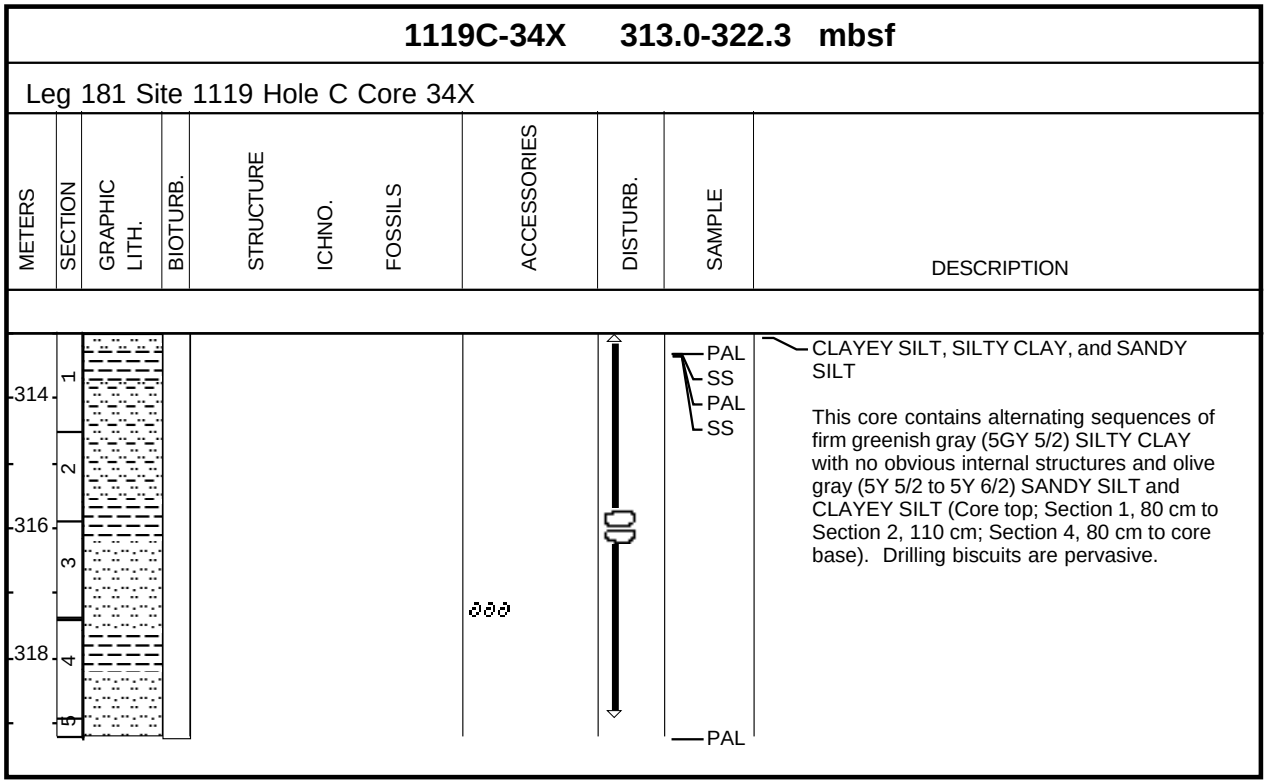
Core Photo


1119C-32X 293.8-303.4 mbsf
Leg 181 Site 1119 Hole C Core 32X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
294
296
298
300
302
1
2
3
4
5
6
7
IW
PAL
SILTY CLAY, CLAYEY SILT, and FINE SAND LAMINAE
Greenish gray (5GY 5/1) SILTY CLAY, with faint color laminations and/or banding, dominates this core. Fossils are rare. There is a gradational boundary to olive gray (5Y 5/2) CLAYEY SILT which grades in color slightly to a light olive gray (5GY 6/1) in Section 6, 90 cm to base. FINE SAND laminae, scattered shell debris, and benthic foraminifers are also present.

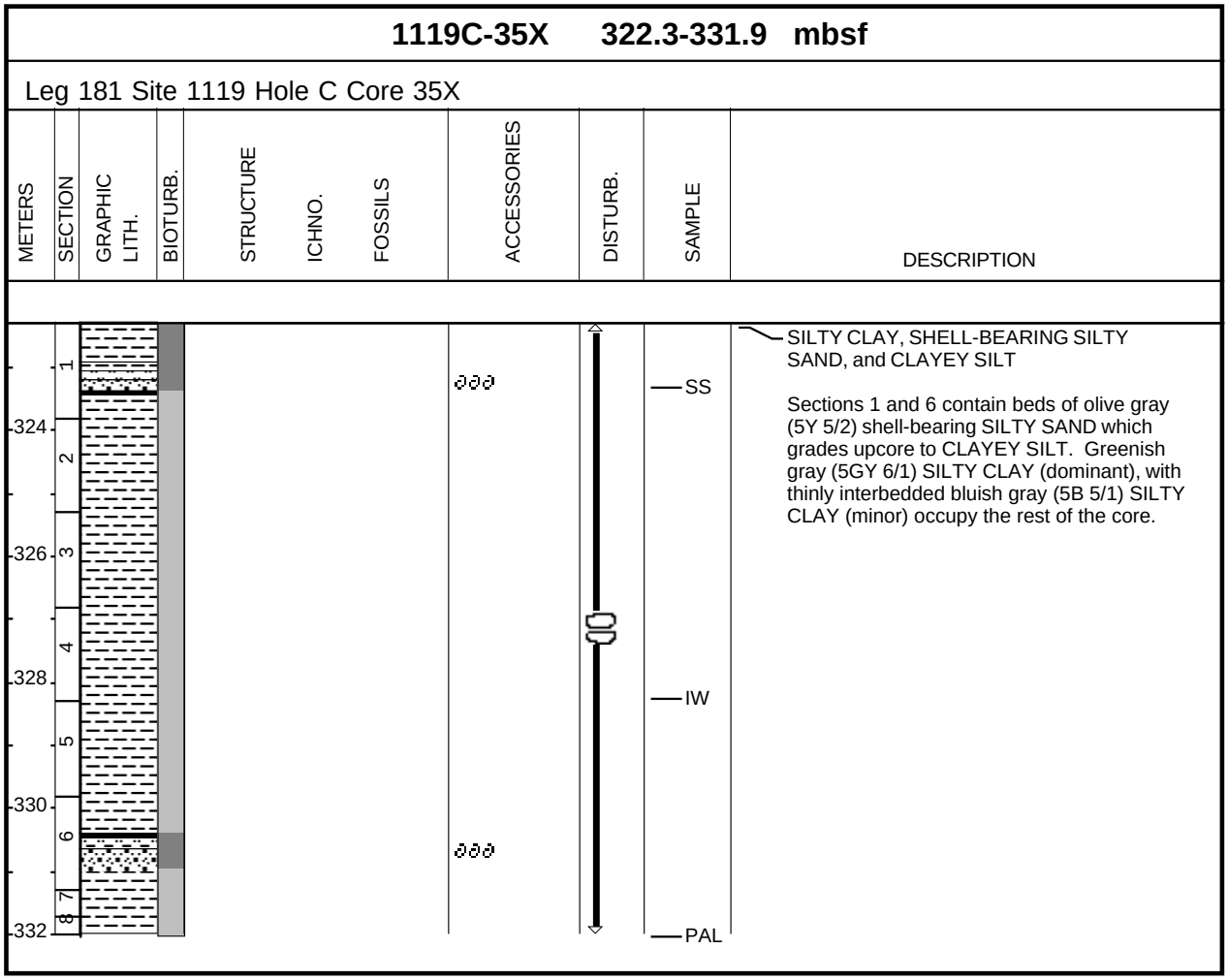
Core Photo


1119C-33X 303.4-313.0 mbsf
Leg 181 Site 1119 Hole C Core 33X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
304
306
308
310
312
1
2
3
4
5
6
7
8
SS
SS
PAL
CLAYEY SILT, SILTY SAND, and SILTY CLAY
In Sections 1 through 3 light olive gray (5Y 6/4) SILTY SAND prevails with fragments of cemented SILTY SAND scattered through the (probably) highly disturbed bed. This bed grades downcore to CLAYEY SILT. Similar olive gray beds are also present in Sections 4 to 5, the bottom of Section 7 and in the core catcher. The rest of the core is greenish gray (5GY 5/2) SILTY CLAY with faint color mottling. The sediment becomes lithified and contains an increasing number of drilling biscuits downcore.

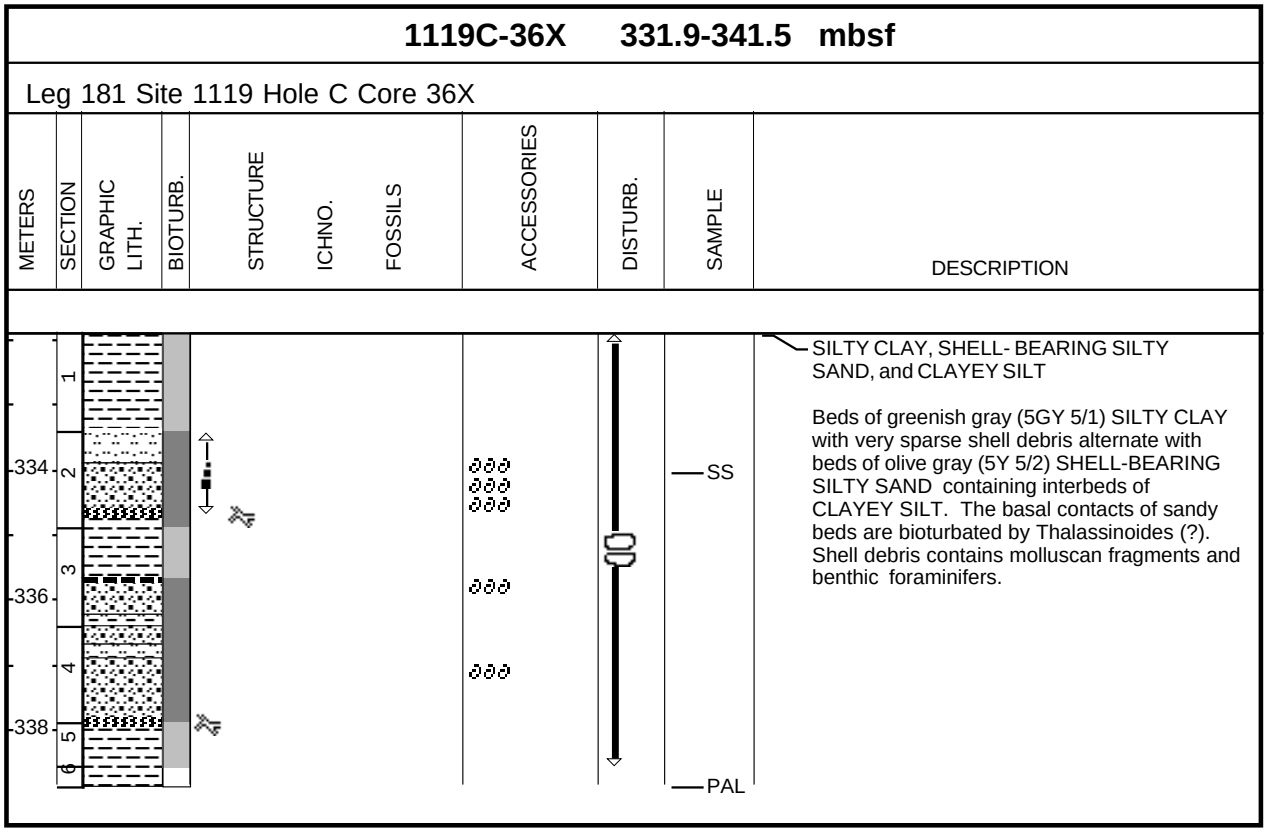
Core Photo


1119C-34X 313.0-322.3 mbsf
Leg 181 Site 1119 Hole C Core 34X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
314
316
318
1
2
3
4
5
PAL
SS
PAL
SS
PAL
CLAYEY SILT, SILTY CLAY, and SANDY SILT
This core contains alternating sequences of firm greenish gray (5GY 5/2) SILTY CLAY with no obvious internal structures and olive gray (5Y 5/2 to 5Y 6/2) SANDY SILT and CLAYEY SILT (Core top; Section 1, 80 cm to Section 2, 110 cm; Section 4, 80 cm to core base). Drilling biscuits are pervasive.

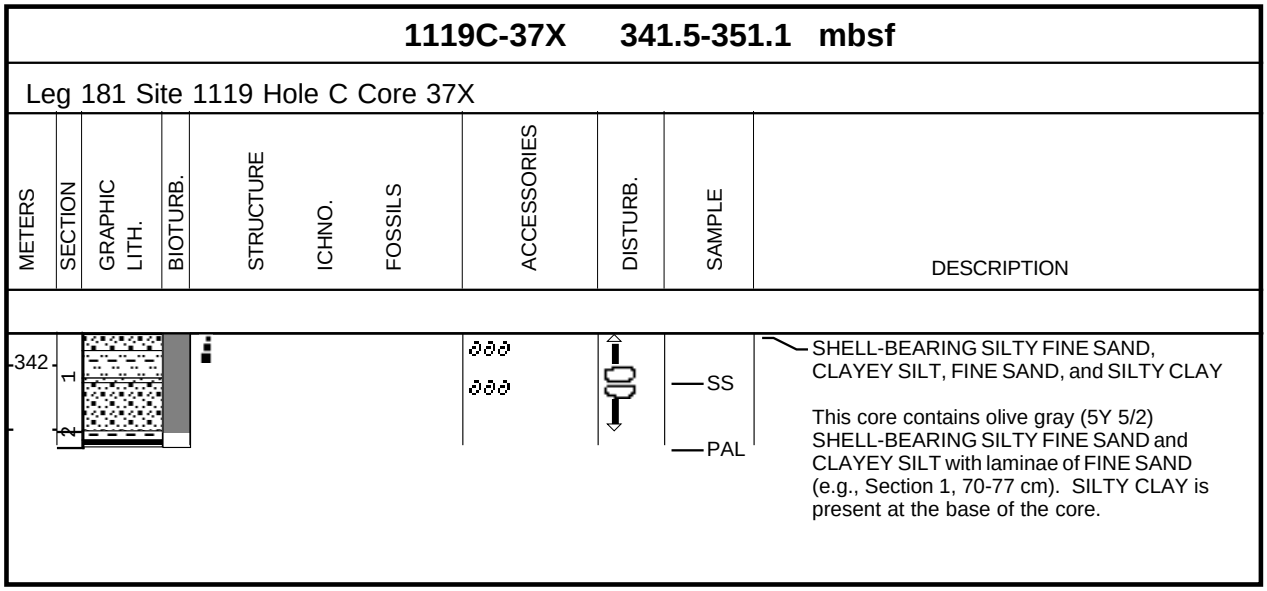
Core Photo


1119C-35X 322.3-331.9 mbsf
Leg 181 Site 1119 Hole C Core 35X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
324
326
328
330
332
1
2
3
4
5
6
7
SS
IW
PAL
SILTY CLAY, SHELL-BEARING SILTY SAND, and CLAYEY SILT
Sections 1 and 6 contain beds of olive gray (5Y 5/2) shell-bearing SILTY SAND which grades upcore to CLAYEY SILT. Greenish gray (5GY 6/1) SILTY CLAY (dominant), with thinly interbedded bluish gray (5B 5/1) SILTY CLAY (minor) occupy the rest of the core.

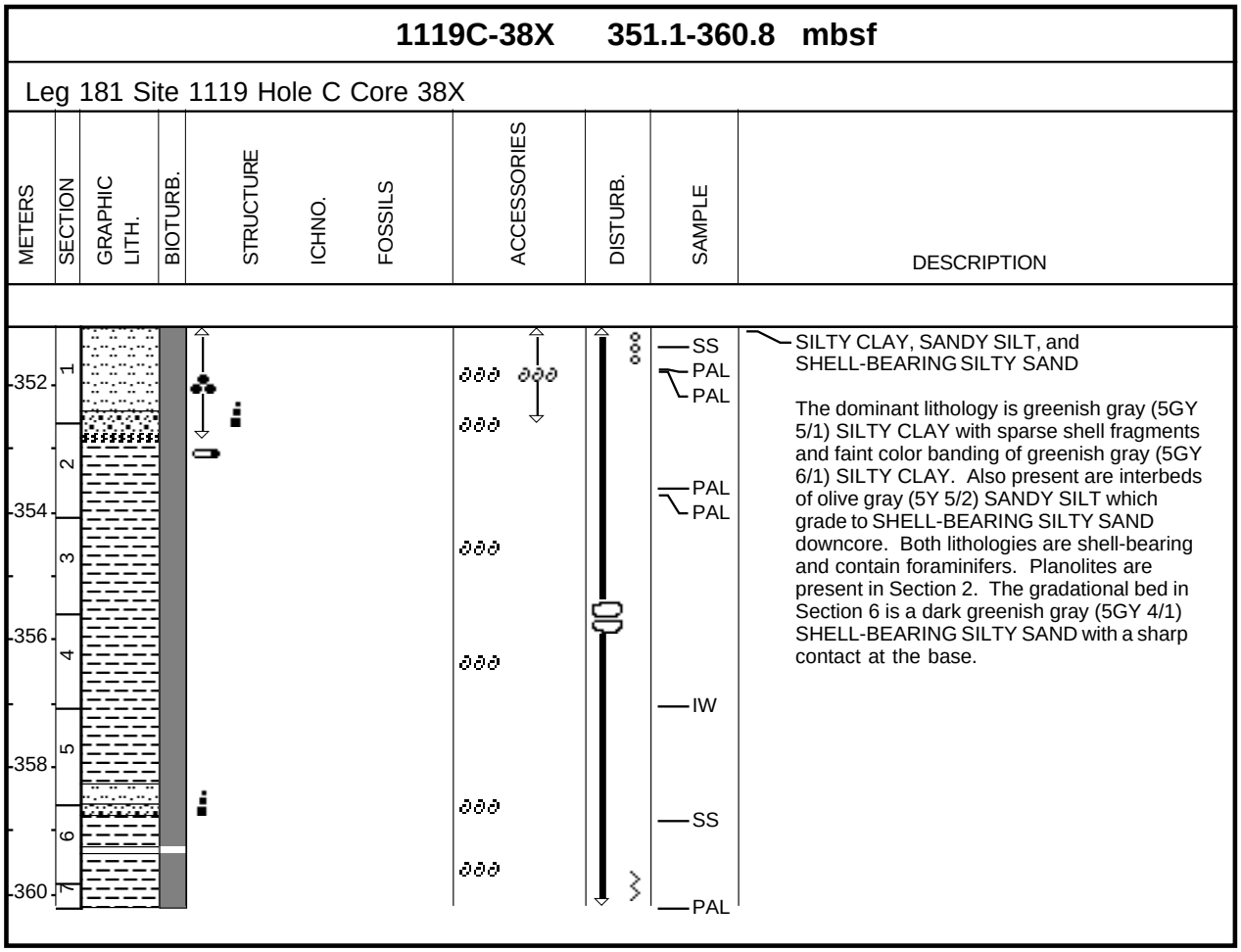
Core Photo


1119C-36X 331.9-341.5 mbsf
Leg 181 Site 1119 Hole C Core 36X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
334
336
338
1
2
3
4
5
6
SS
PAL
SILTY CLAY, SHELL- BEARING SILTY SAND, and CLAYEY SILT
Beds of greenish gray (5GY 5/1) SILTY CLAY with very sparse shell debris alternate with beds of olive gray (5Y 5/2) SHELL-BEARING SILTY SAND containing interbeds of CLAYEY SILT. The basal contacts of sandy beds are bioturbated by Thalassinoides (?). Shell debris contains molluscan fragments and benthic foraminifers.

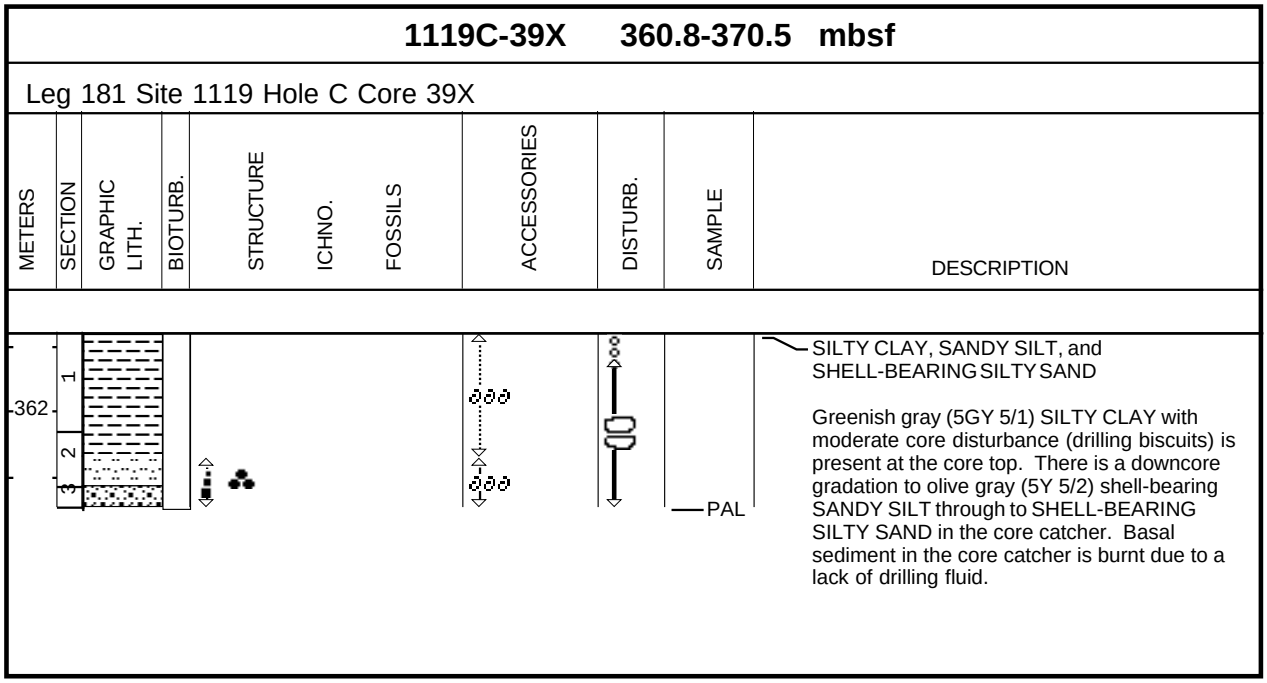
Core Photo


1119C-37X 341.5-351.1 mbsf
Leg 181 Site 1119 Hole C Core 37X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
342
1
2
SS
PAL
SHELL-BEARING SILTY FINE SAND, CLAYEY SILT, FINE SAND, and SILTY CLAY
This core contains olive gray (5Y 5/2) SHELL-BEARING SILTY FINE SAND and CLAYEY SILT with laminae of FINE SAND (e.g., Section 1, 70-77 cm). SILTY CLAY is present at the base of the core.

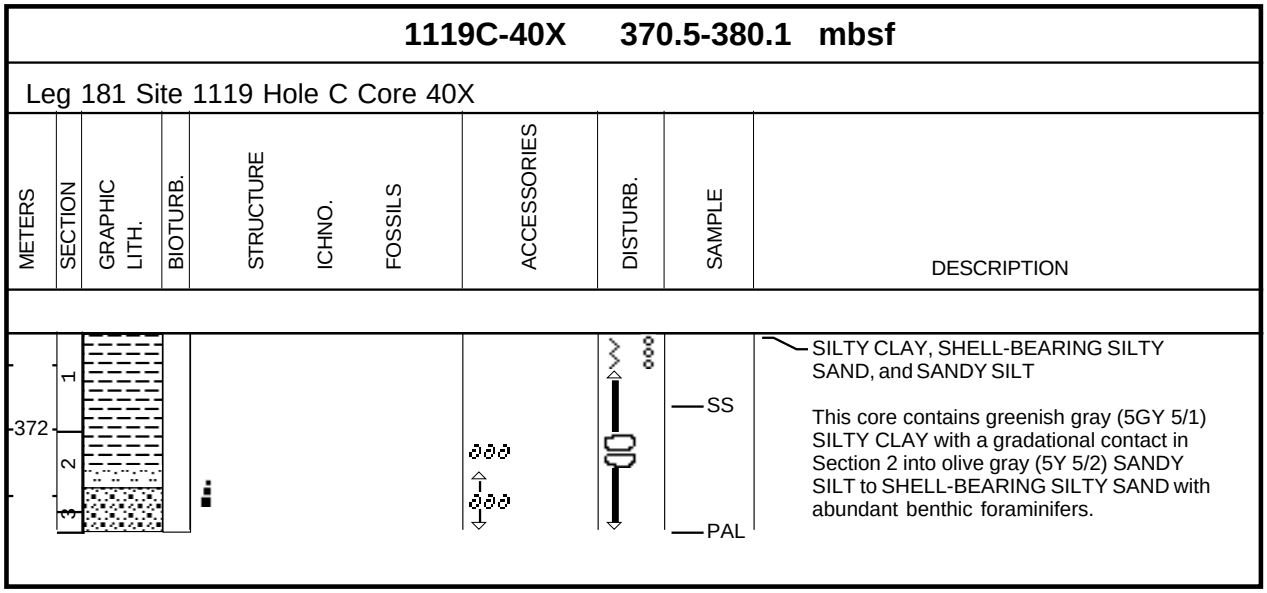
Core Photo


1119C-38X 351.1-360.8 mbsf
Leg 181 Site 1119 Hole C Core 38X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
352
354
356
358
360
1
2
3
4
5
6
7
SS
PAL
PAL
PAL
PAL
IW
SS
PAL
SILTY CLAY, SANDY SILT, and SHELL-BEARING SILTY SAND
The dominant lithology is greenish gray (5GY 5/1) SILTY CLAY with sparse shell fragments and faint color banding of greenish gray (5GY 6/1) SILTY CLAY. Also present are interbeds of olive gray (5Y 5/2) SANDY SILT which grade to SHELL-BEARING SILTY SAND downcore. Both lithologies are shell-bearing and contain foraminifers. Planolites are present in Section 2. The gradational bed in Section 6 is a dark greenish gray (5GY 4/1) SHELL-BEARING SILTY SAND with a sharp contact at the base.

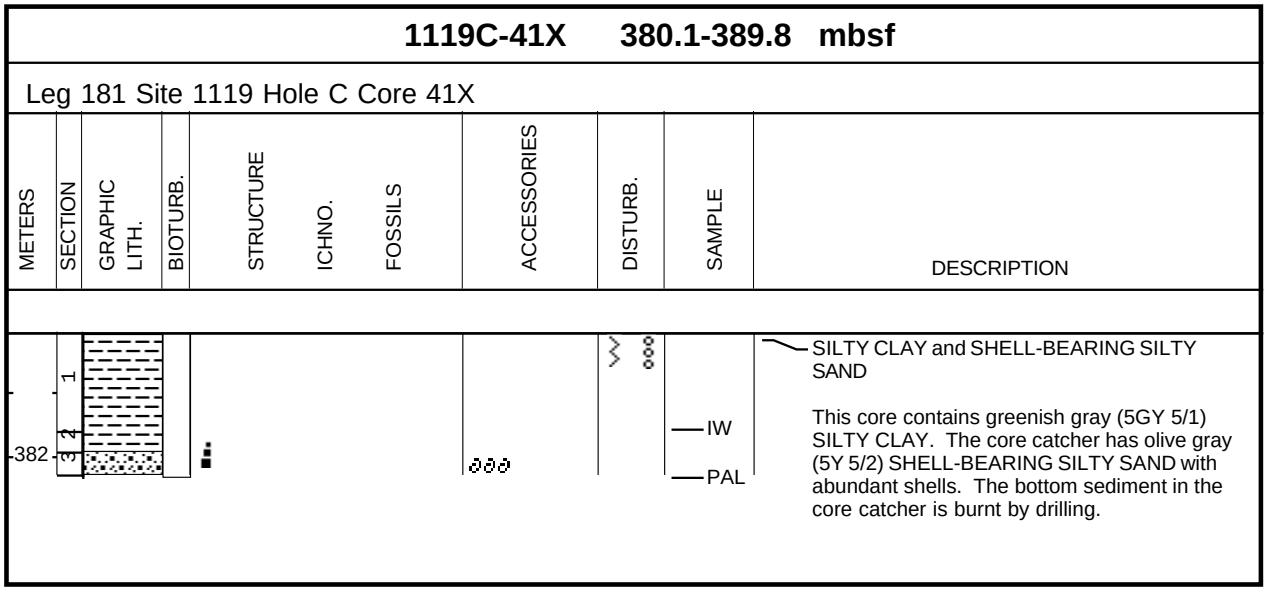
Core Photo


1119C-39X 360.8-370.5 mbsf
Leg 181 Site 1119 Hole C Core 39X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
362
1
2
3
PAL
SILTY CLAY, SANDY SILT, and SHELL-BEARING SILTY SAND
Greenish gray (5GY 5/1) SILTY CLAY with moderate core disturbance (drilling biscuits) is present at the core top. There is a downcore gradation to olive gray (5Y 5/2) shell-bearing SANDY SILT through to SHELL-BEARING SILTY SAND in the core catcher. Basal sediment in the core catcher is burnt due to a lack of drilling fluid.

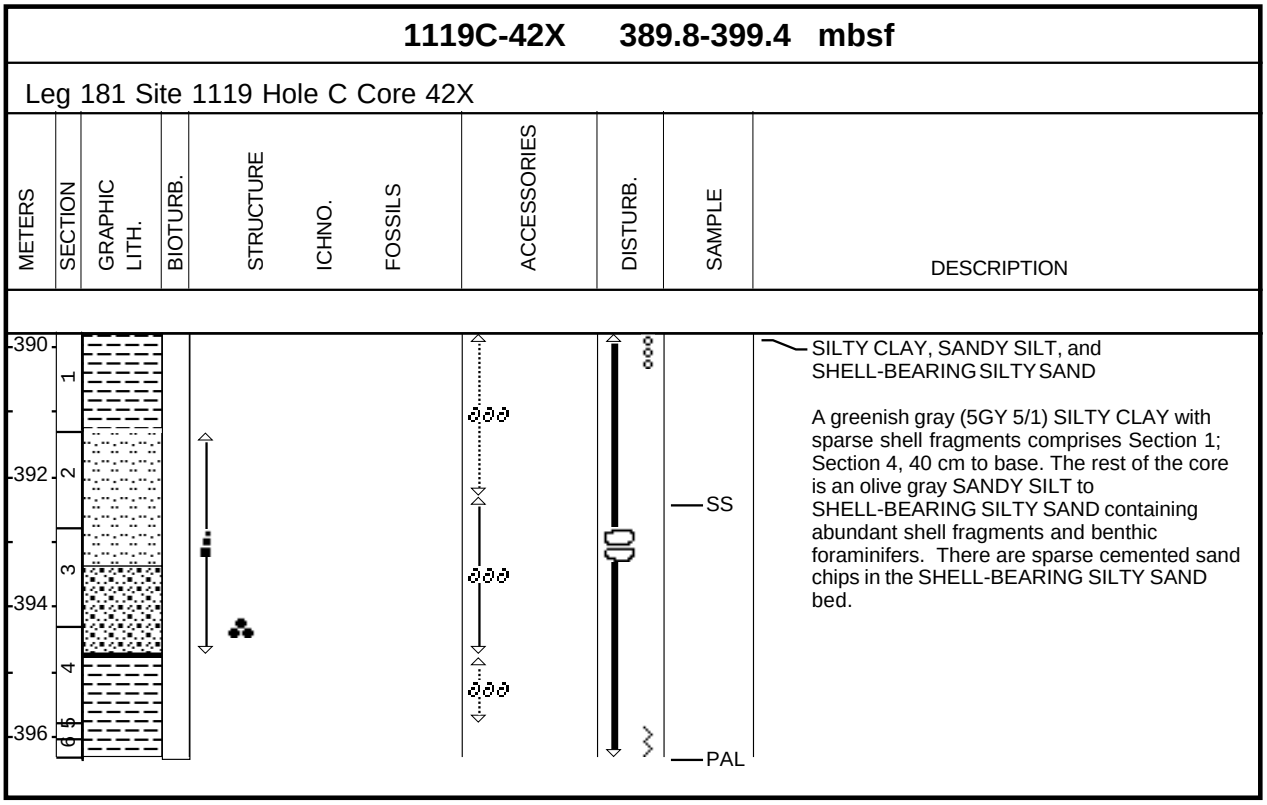
Core Photo


1119C-40X 370.5-380.1 mbsf
Leg 181 Site 1119 Hole C Core 40X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
372
1
2
3
SS
PAL
SILTY CLAY, SHELL-BEARING SILTY SAND, and SANDY SILT
This core contains greenish gray (5GY 5/1) SILTY CLAY with a gradational contact in Section 2 into olive gray (5Y 5/2) SANDY SILT to SHELL-BEARING SILTY SAND with abundant benthic foraminifers.

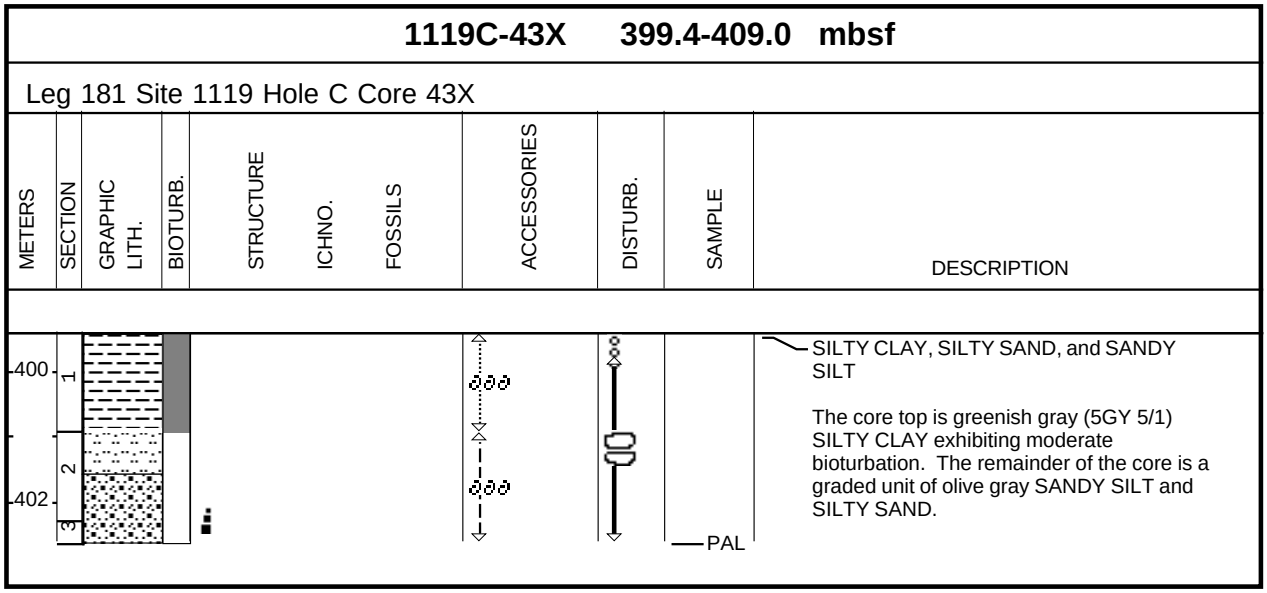
Core Photo


1119C-41X 380.1-389.8 mbsf
Leg 181 Site 1119 Hole C Core 41X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
382
1
2
3
IW
PAL
SILTY CLAY and SHELL-BEARING SILTY SAND
This core contains greenish gray (5GY 5/1) SILTY CLAY. The core catcher has olive gray (5Y 5/2) SHELL-BEARING SILTY SAND with abundant shells. The bottom sediment in the core catcher is burnt by drilling.

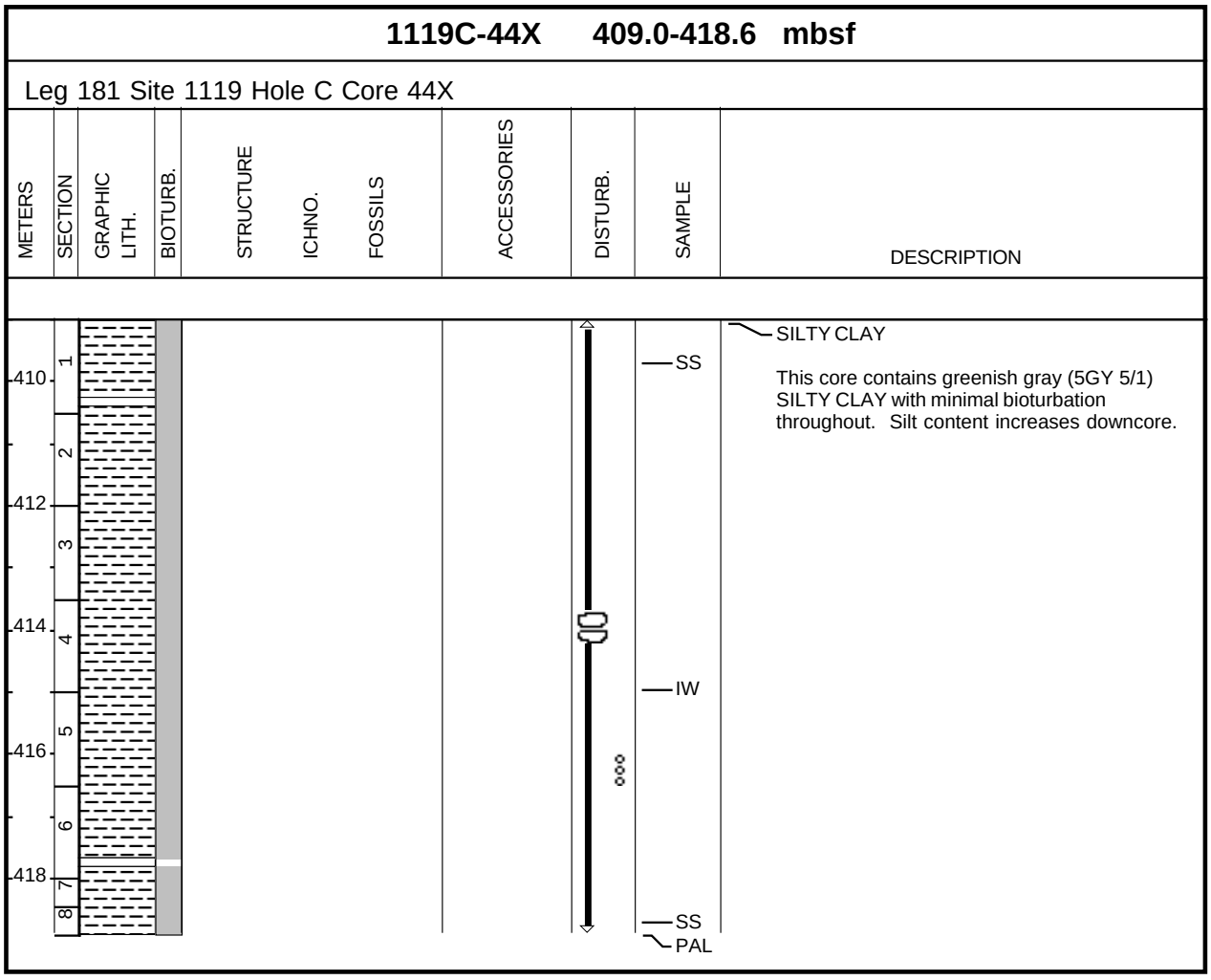
Core Photo


1119C-42X 389.8-399.4 mbsf
Leg 181 Site 1119 Hole C Core 42X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
390
392
394
396
1
2
3
4
5
6
SS
PAL
SILTY CLAY, SANDY SILT, and SHELL-BEARING SILTY SAND
A greenish gray (5GY 5/1) SILTY CLAY with sparse shell fragments comprises Section 1; Section 4, 40 cm to base. The rest of the core is an olive gray SANDY SILT to SHELL-BEARING SILTY SAND containing abundant shell fragments and benthic foraminifers. There are sparse cemented sand chips in the SHELL-BEARING SILTY SAND bed.

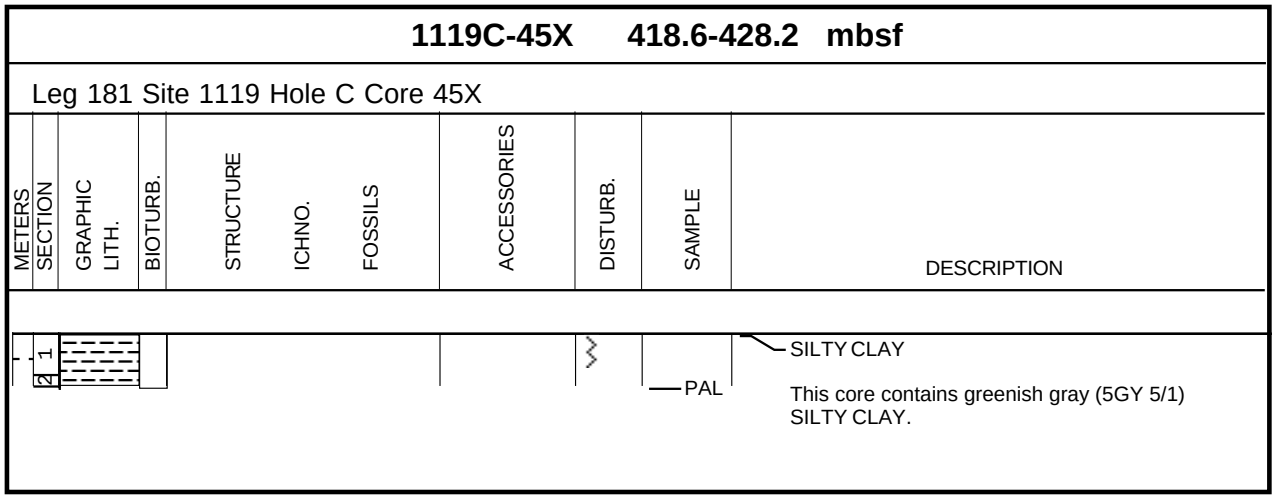
Core Photo


1119C-43X 399.4-409.0 mbsf
Leg 181 Site 1119 Hole C Core 43X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
400
402
1
2
3
PAL
SILTY CLAY, SILTY SAND, and SANDY SILT
The core top is greenish gray (5GY 5/1) SILTY CLAY exhibiting moderate bioturbation. The remainder of the core is a graded unit of olive gray SANDY SILT and SILTY SAND.

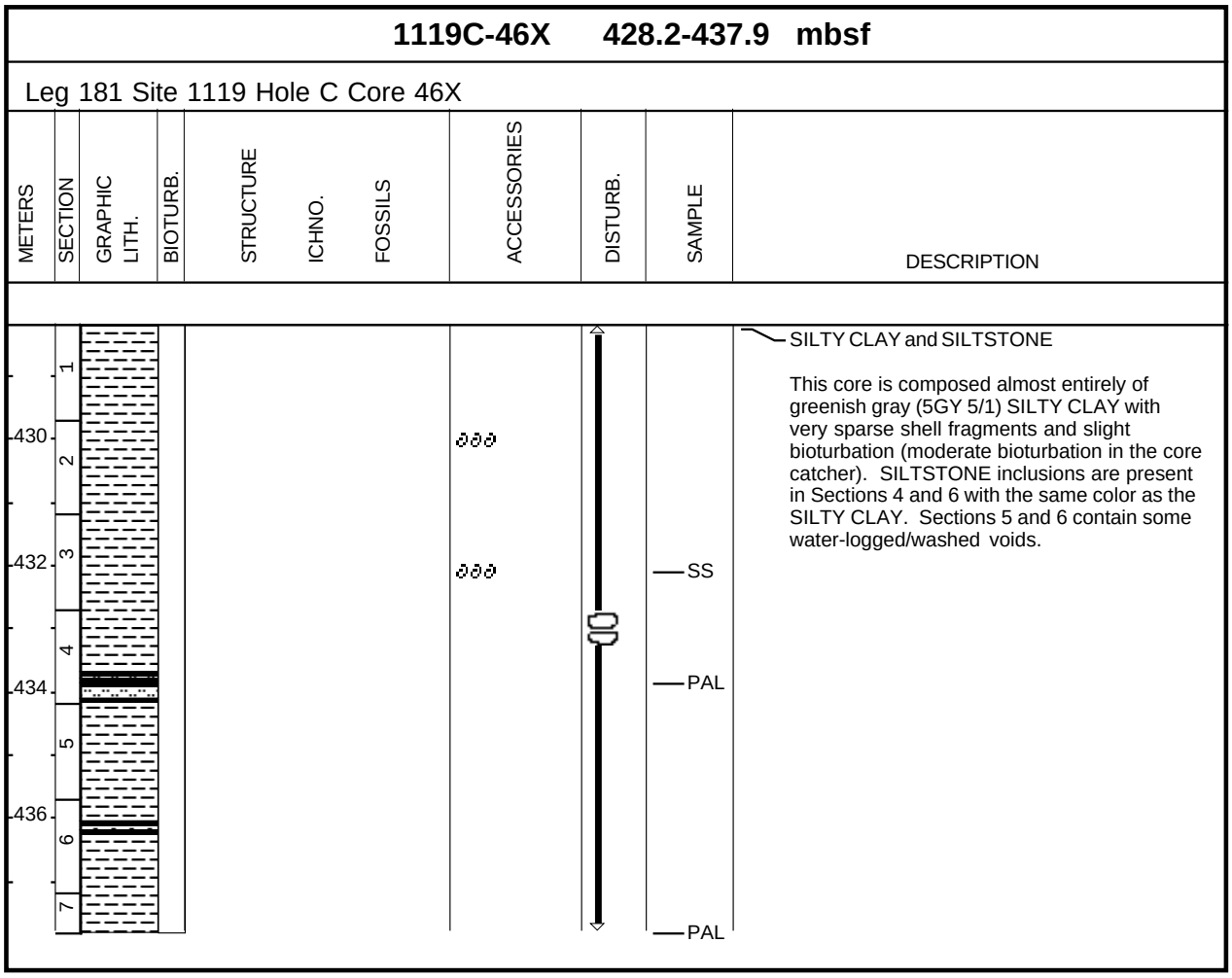
Core Photo


1119C-44X 409.0-418.6 mbsf
Leg 181 Site 1119 Hole C Core 44X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
410
412
414
416
418
1
2
3
4
5
6
7
8
SS
IW
SS
PAL
SILTY CLAY
This core contains greenish gray (5GY 5/1) SILTY CLAY with minimal bioturbation throughout. Silt content increases downcore.

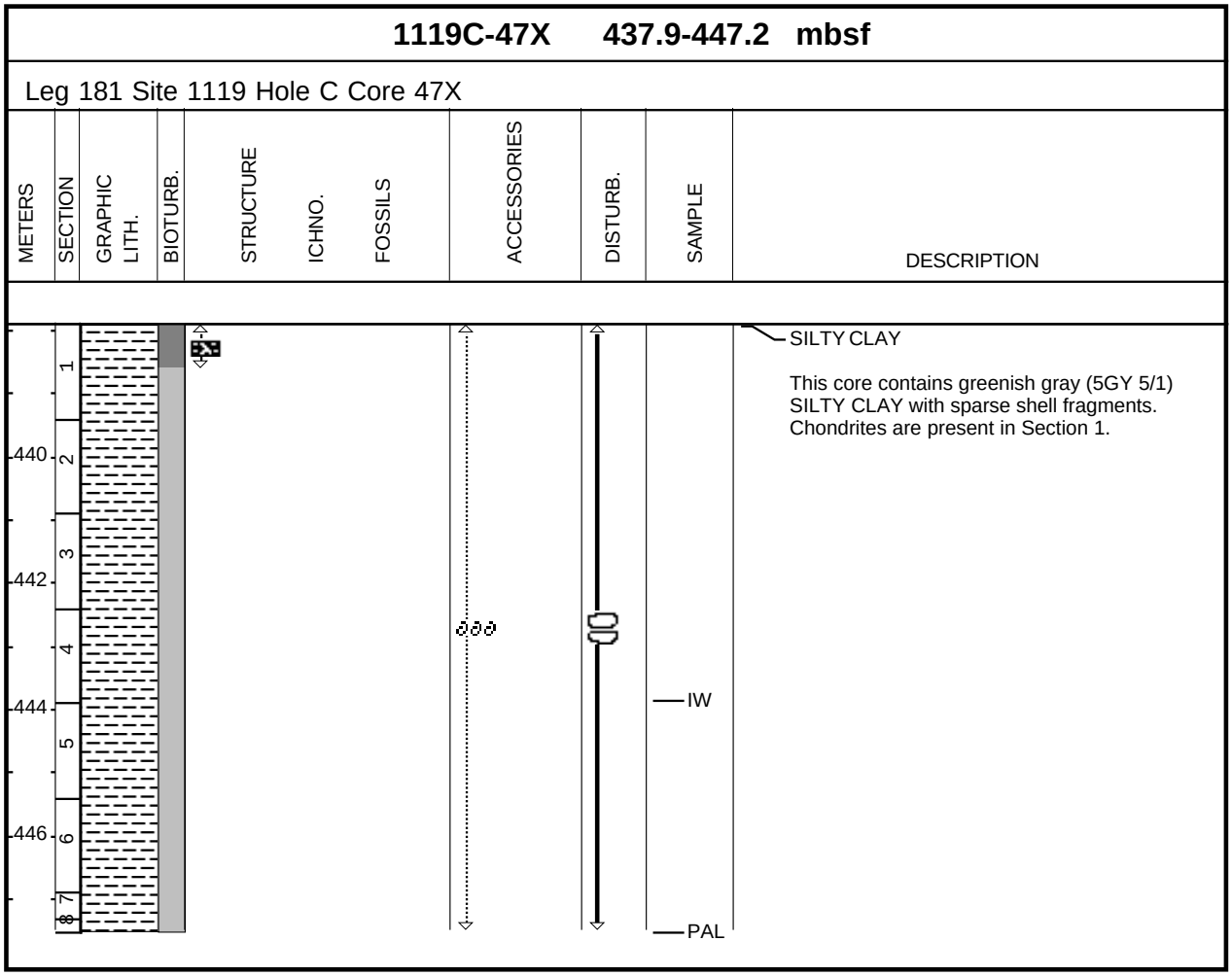
Core Photo


1119C-45X 418.6-428.2 mbsf
Leg 181 Site 1119 Hole C Core 45X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
1
PAL
SILTY CLAY
This core contains greenish gray (5GY 5/1) SILTY CLAY.

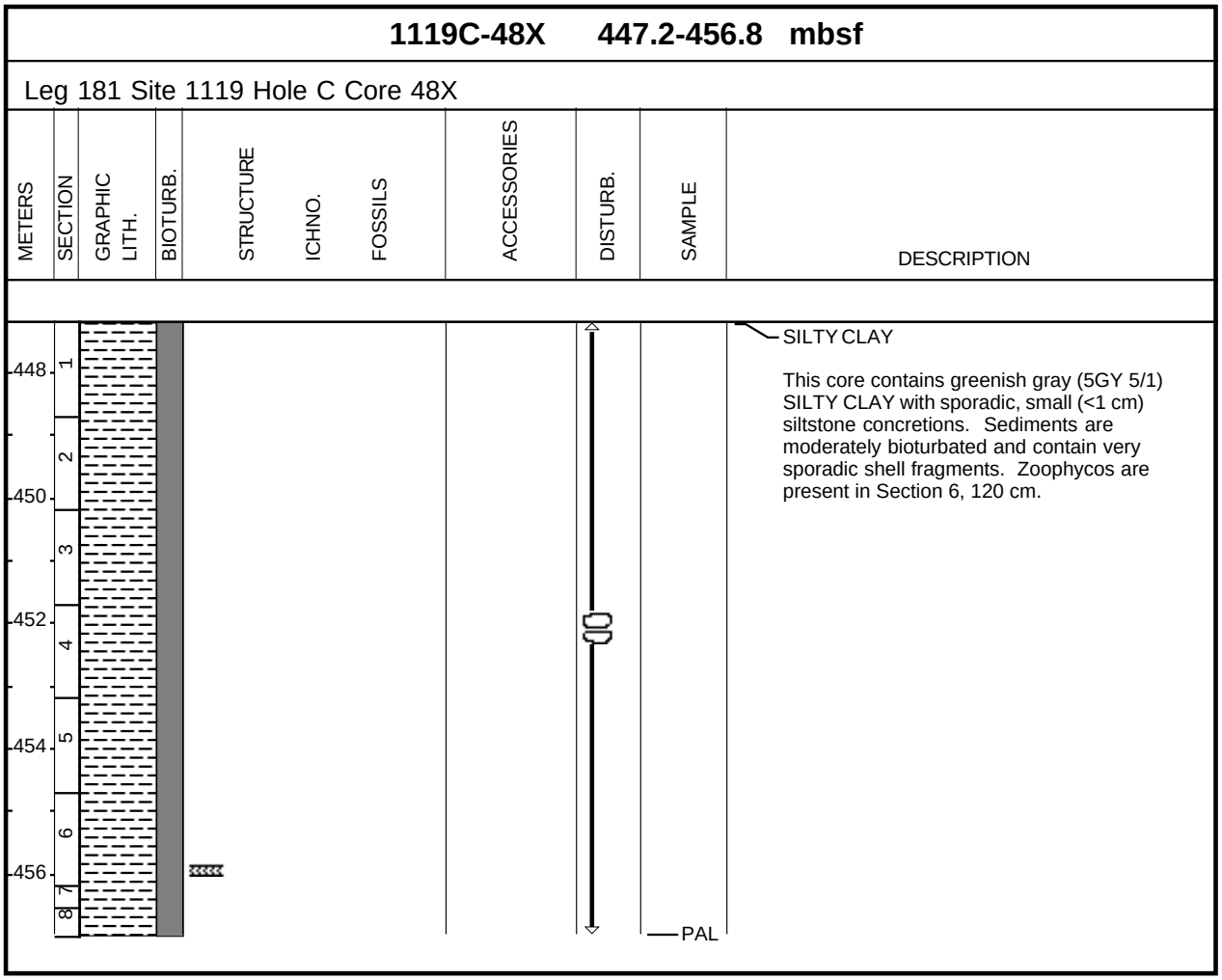
Core Photo


1119C-46X 428.2-437.9 mbsf
Leg 181 Site 1119 Hole C Core 46X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
430
432
434
436
1
2
3
4
5
6
7
SS
PAL
PAL
SILTY CLAY and SILTSTONE
This core is composed almost entirely of greenish gray (5GY 5/1) SILTY CLAY with very sparse shell fragments and slight bioturbation (moderate bioturbation in the core catcher). SILTSTONE inclusions are present in Sections 4 and 6 with the same color as the SILTY CLAY. Sections 5 and 6 contain some water-logged/washed voids.

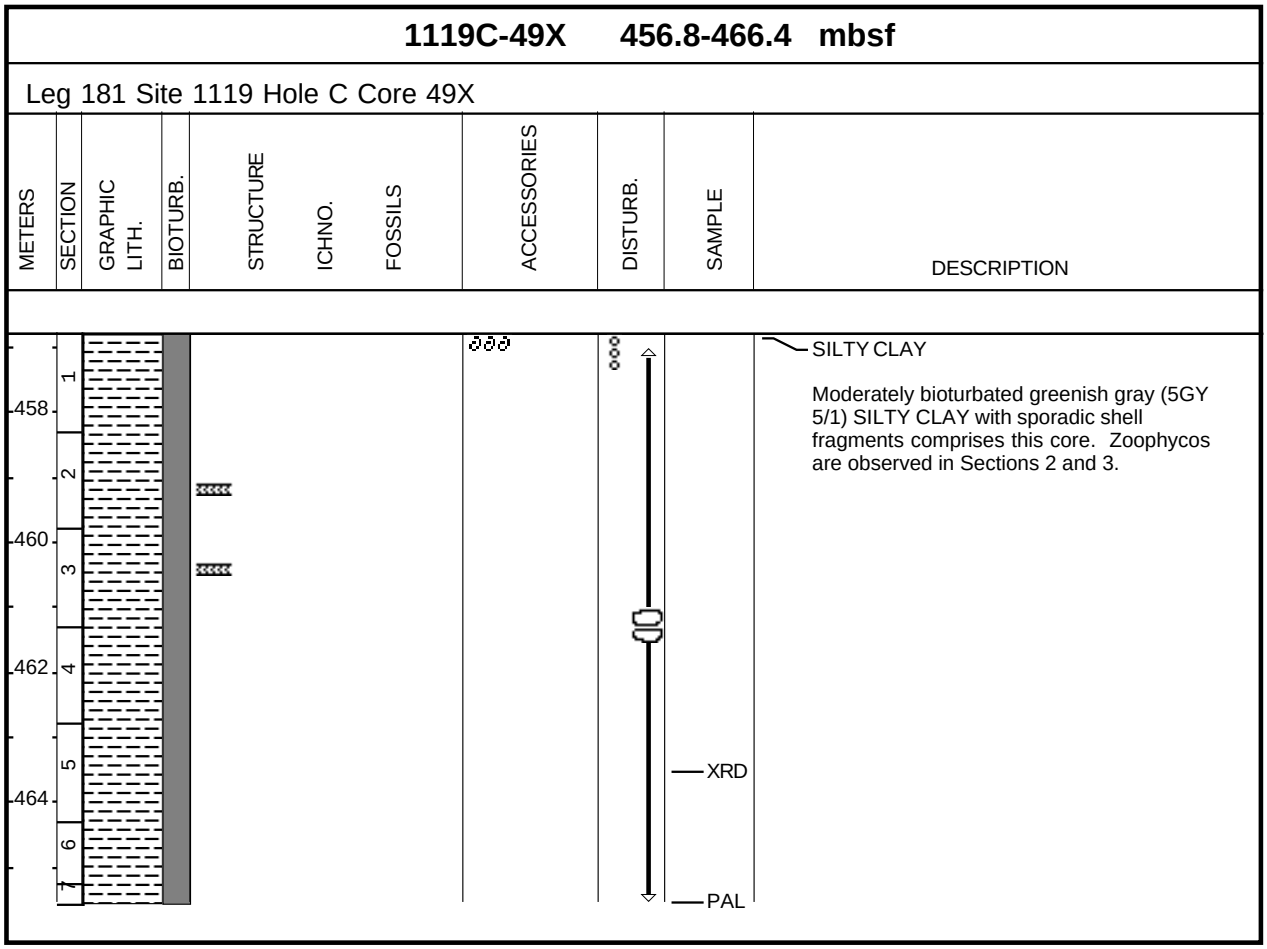
Core Photo


1119C-47X 437.9-447.2 mbsf
Leg 181 Site 1119 Hole C Core 47X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
440
442
444
446
1
2
3
4
5
6
7
SILTY CLAY
This core contains greenish gray (5GY 5/1) SILTY CLAY with sparse shell fragments. Chondrites are present in Section 1.
IW
PAL

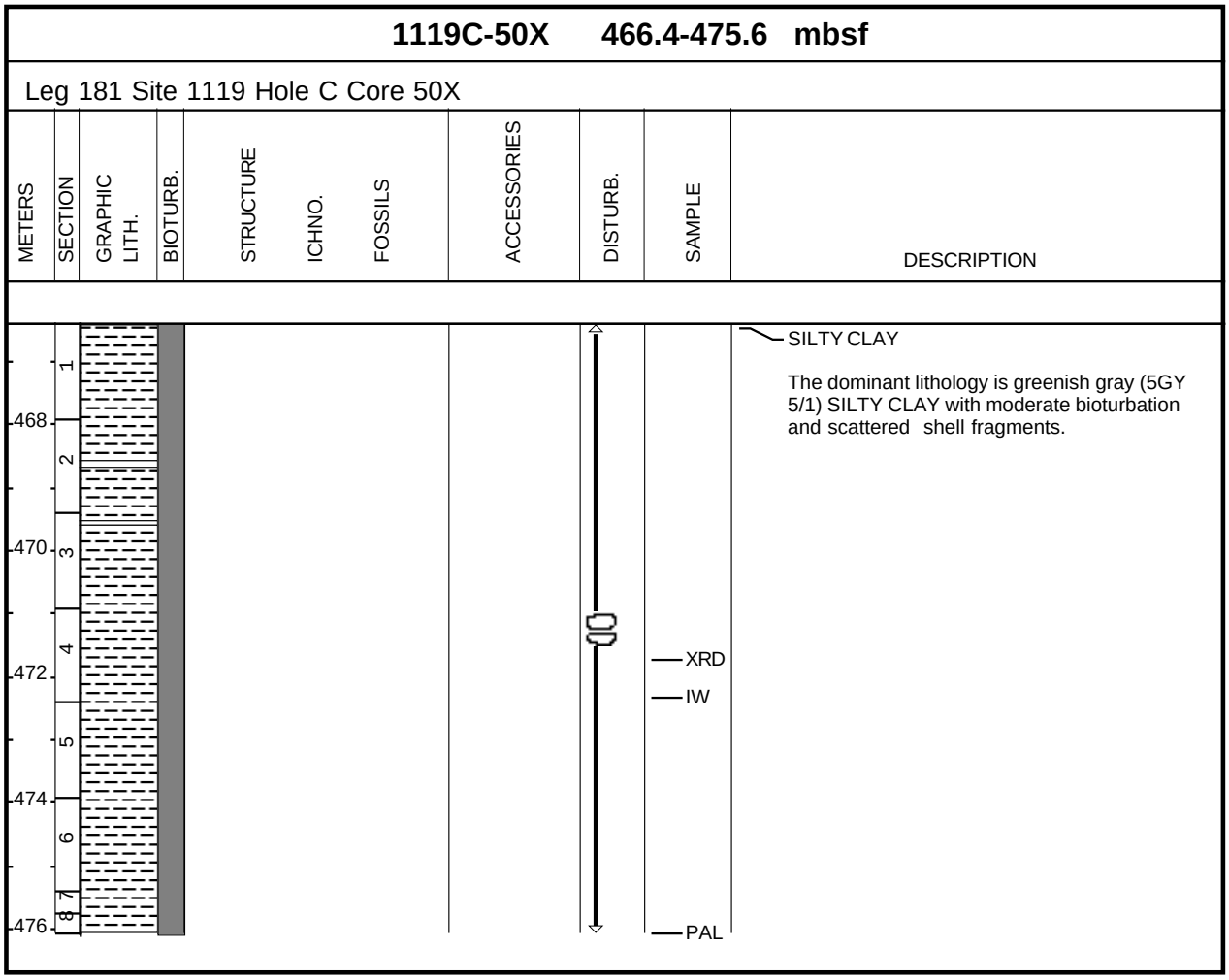
Core Photo


1119C-48X 447.2-456.8 mbsf
Leg 181 Site 1119 Hole C Core 48X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
448
450
452
454
456
1
2
3
4
5
6
7
8
SILTY CLAY
This core contains greenish gray (5GY 5/1) SILTY CLAY with sporadic, small (<1 cm) siltstone concretions. Sediments are moderately bioturbated and contain very sporadic shell fragments. Zoophycos are present in Section 6, 120 cm.
PAL

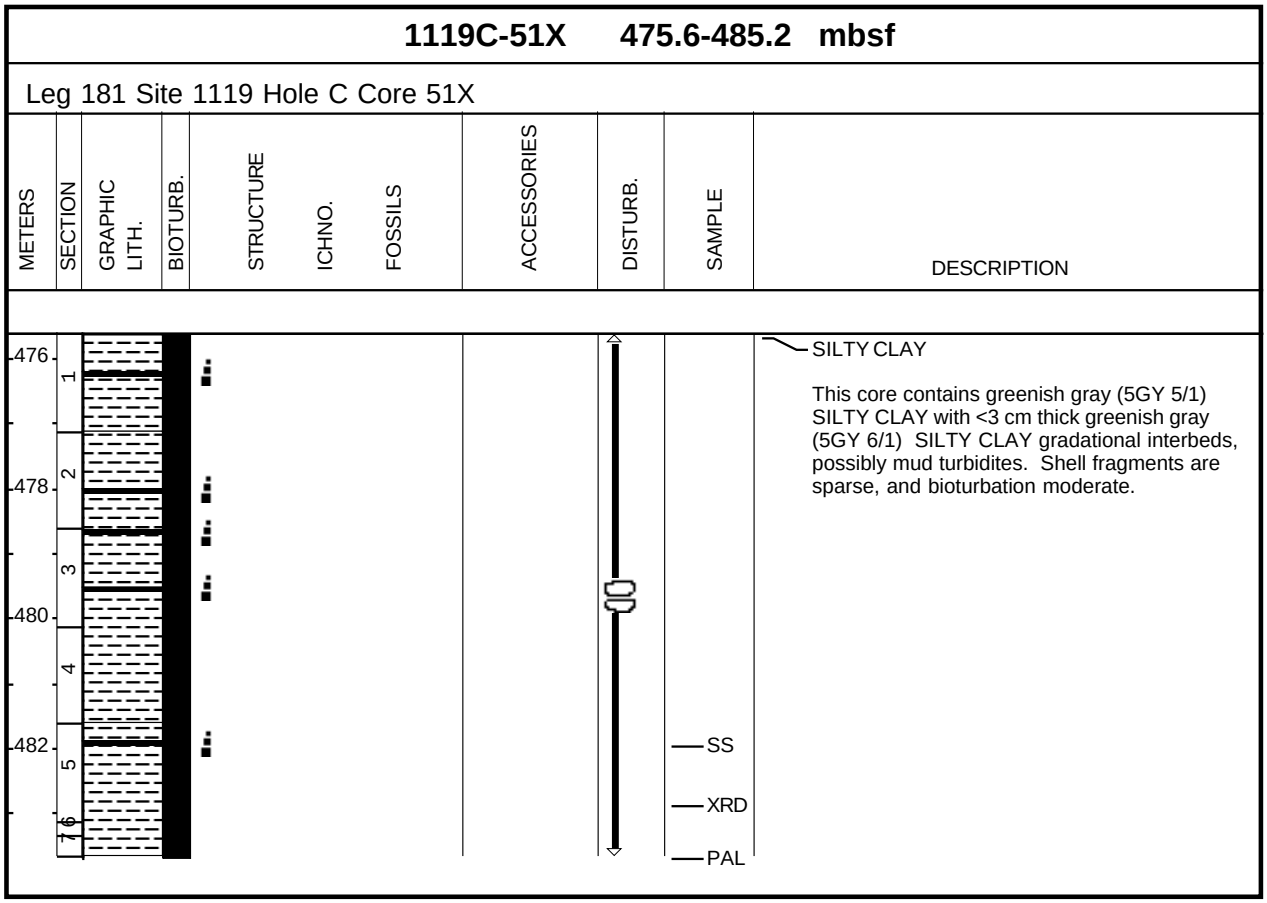
Core Photo


1119C-49X 456.8-466.4 mbsf
Leg 181 Site 1119 Hole C Core 49X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
458
460
462
464
1
2
3
4
5
6
7
SILTY CLAY
Moderately bioturbated greenish gray (5GY 5/1) SILTY CLAY with sporadic shell fragments comprises this core. Zoophycos are observed in Sections 2 and 3.
XRD
PAL

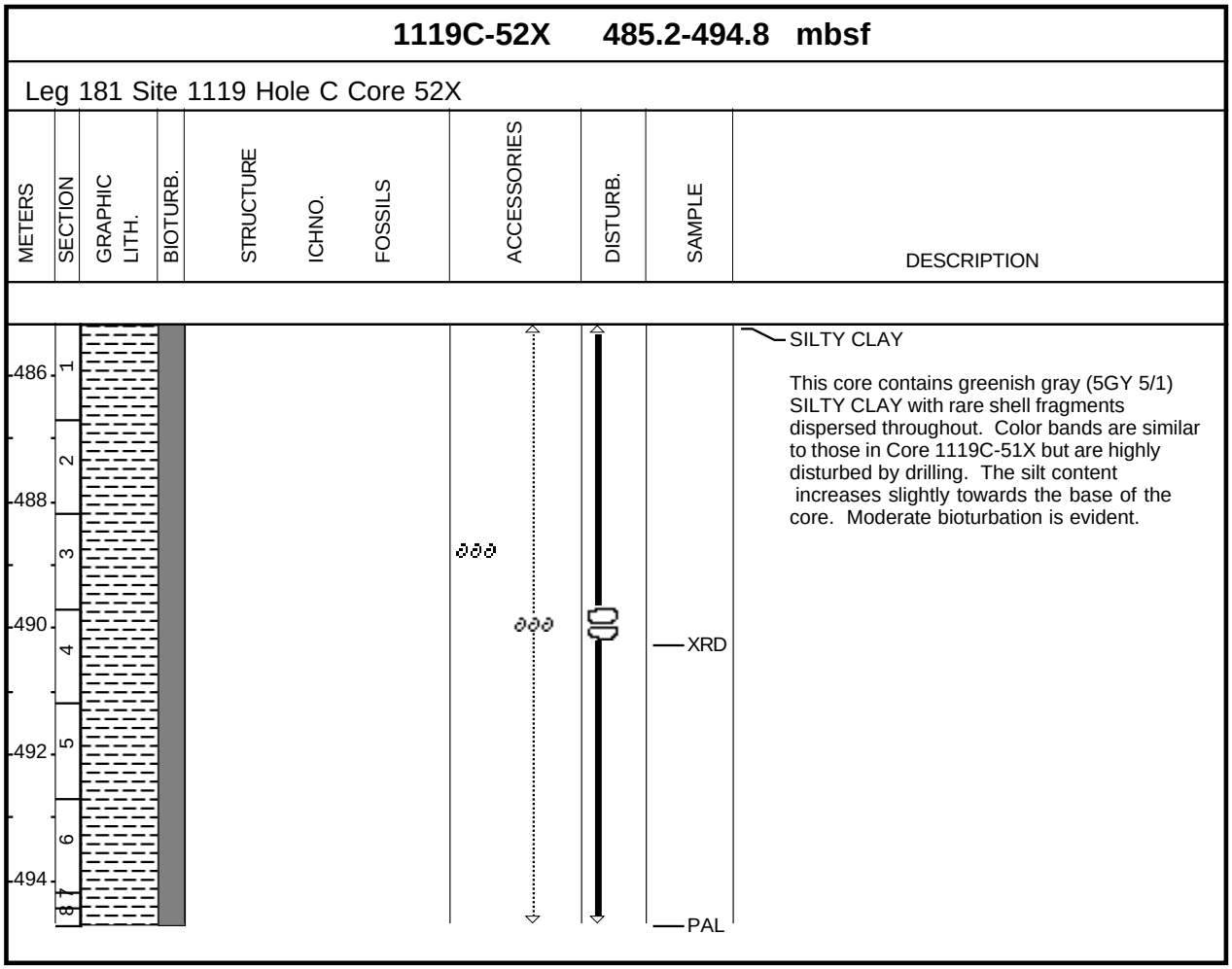
Core Photo


1119C-50X 466.4-475.6 mbsf
Leg 181 Site 1119 Hole C Core 50X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
468
470
472
474
476
1
2
3
4
5
6
7
CC
XRD
IW
PAL
SILTY CLAY
The dominant lithology is greenish gray (5GY 5/1) SILTY CLAY with moderate bioturbation and scattered shell fragments.

Core Photo


1119C-51X 475.6-485.2 mbsf
Leg 181 Site 1119 Hole C Core 51X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
476
478
480
482
1
2
3
4
5
6
7
SS
XRD
PAL
SILTY CLAY
This core contains greenish gray (5GY 5/1) SILTY CLAY with <3 cm thick greenish gray (5GY 6/1) SILTY CLAY gradational interbeds, possibly mud turbidites. Shell fragments are sparse, and bioturbation moderate.

Core Photo


1119C-52X 485.2-494.8 mbsf
Leg 181 Site 1119 Hole C Core 52X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
486
488
490
492
494
1
2
3
4
5
6
7
CC
SILTY CLAY
This core contains greenish gray (5GY 5/1) SILTY CLAY with rare shell fragments dispersed throughout. Color bands are similar to those in Core 1119C-51X but are highly disturbed by drilling. The silt content increases slightly towards the base of the core. Moderate bioturbation is evident.
XRD
PAL

Site 1119 Smear Slides										Texture			Mineral																					Biogenic										Rock		
Leg	Site	Hole	Core	Type	Section	Interval (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Calcite (30)	Carbonate (35)	Chlorite (45)	Clay (47)	Clinoptilolite (48)	Feldspar (71)	Glauconite (82)	Heavy Minerals (89)	Manganese (111)	Mica (118)	Opaques (140)	Oxides (146)	Pyrite (169)	Quartz (172)	Volcanic Glass (81)	Zeolite (222)	Zircon (223)	Bryozoa (24)	Coccolith (51)	Diatoms (58)	Foraminifers (78)	Nannofossils (132)	Ostracod (144)	Radiolarians (173)	Silicoflagellates (189)	Skeletal Debris (192)	Sponge Spicules (199)	Fecal Pellet (70)	Lithic Fragments (106)	Comments
181	1119	A	1	H	1	40	0.4	D	20	20	60				P		P	R			P	P			P						C	C				P	P			
181	1119	A	1	H	2	90	2.23	D	5	10	85				P		P				P	P			P						P	C				*	R		P	
181	1119	B	2	H	1	100	5.7	D	5	35	60						*	R				*			C							C							*	
181	1119	B	2	H	2	115	7.35	M		10	90		A						*												P									
181	1119	B	2	H	4	98	10.18	M	0	20	80						*					*			P							P								
181	1119	B	3	H	2	81	16.51	M	20	30	50				P		P	*			*	*			P						C	P				R				
181	1119	B	3	H	5	87	21.07	M	70	20	10				C		A	*			*		C															*		
181	1119	B	4	H	1	60	24.3	D		30	70		C		C		P	*	*			P			P						P	P					R	*	*	
181	1119	B	4	H	6	16	29.92	D		20	80		P				P	*	R					A	P						P	P				*	*	R	R	
181	1119	B	4	H	6	35	30.11	D		30	70		C				P	*	*		*	P			P						P	P				*	R	R	P	
181	1119	B	5	H	2	12	34.85	M	10	60	30				P		P		P		P	A		C	P					R	P	P							
181	1119	B	6	H	1	70	43.4	D	30	40	30				P		P				P	R			C						C	P								
181	1119	B	6	H	2	112	45.32	D	10	60	30				P		P				P	P		P	A							C								
181	1119	B	6	H	2	135	45.55	D	40	30	30				P						P	P			P						P	A					A			
181	1119	B	6	H	4	57	47.77	D	5	55	40				P		P				P	P			A						R	P					P			
181	1119	B	7	H	2	70	54.4	D	10	50	40				P		P					P			A							C					P			DARKER LAYER
181	1119	B	7	H	2	111.5	54.82	D	5	40	50				P		P	R			R	P			A					R		P					R			LIGHTER LAYER
181	1119	B	7	H	8	12	61.72	M	30	40	30		P		P		P	R			P	P			A						R	C					P			
181	1119	B	8	H	2	140	64.6	M	50	25	25		P		P		P				C				P						P	P					P			
181	1119	B	8	H	7	51	71.26	D	5	40	55						A							P	A					R				R						
181	1119	B	9	H	4	40	76.05	M	20	40	40							R			R			P							P	P				C				
181	1119	B	9	H	5	7	77.12	M	10	50	40			R	C		C		R		R			P	C							P				R	C			
181	1119	B	9	H	5	110	78.15	D	5	40	55				C		C		R		R			P		R						R					R			
181	1119	B	10	H	6	7	88.19	D	R	30	70				A		C				R			R							R	P		P					
181	1119	B	11	H	5	65	96.85	D	10	50	40				C		C	P	R		R			P	C						R	P		R						
181	1119	B	12	H	4	72	104.92	M	10	30	60				C				R		R													R		P	P			
181	1119	B	12	H	7	27	108.97	M	R	30	70				C		P		R					R	P					P		C		C						
181	1119	B	13	H	3	33	112.53	D	10	30	60		*				P	R	R		R	R			P							C	P				C		R	C	
181	1119	B	13	H	3	45	112.65	M	20	30	50		P		R		P	R	R		R				P							C	P				C			C	
181	1119	B	14	H	2	40	120.6	M	30	20	50				C		C	C	P		P	P			C							P					P				
181	1119	B	14	H	6	128	127.53	M	10	20	70						C		P		P	P			C							R					R	P			
181	1119	B	15	H	7	13	137.33	M	10	20	70						P							C	P							R	P					A			SPONGES SPICULES LAYER WITH RARE DIATOMS
181	1119	B	16	H	1	60	138.3	D	R	20	80				P		P		P		P	P			P							R	P					P	R		
181	1119	B	16	H	3	130	142	M	10	30	60						R	R	R		R	R			R							C	P				C	P	R	R	
181	1119	B	17	H	4	88	152.61	M					D																												
181	1119	C	1	H	1	5	0.05	M	30	30	40						C	P	P			P							P			P					P	R		P	
181	1119	C	1	H	1	100	1	D	R	40	60						C	*	P			R										R	P				*	P			
181	1119	C	2	H	1	78	9.08	D	R	30	70						C	*	P		R				C													*	*	P	
181	1119	C	2	H	1	106	9.36	D	30	40	30				P		C	P	P		R				C							R	P					C	*	C	
181	1119	C	2	H	4	38	13.18	M	20	30	50						C	R	P		P				C							R	P					C	*	P	
181	1119	C	3	H	3	142	22.22	M	30	30	40				P		A		R		P			R	A													R			
181	1119	C	3	H	3	148	22.28	D	10	40	50				C		C		R					P	C							R						P			
181	1119	C	5	H	5	54	43.34	D	10	40	50						P				P			P	P					P	R	C									
181	1119	C	5	H	5	110	43.9	M	20	40	40						P		P		P	P		P	P							P	C					P			
181	1119	C	6	H	1	86	47.16	D	5	65	35						P		P		P	P		P	P								P								
181	1119	C	6	H	1	117	47.47	M	20	35	45						P				P			P	P							P	C				P	C	P		
181	1119	C	6	H	4	132	52.12	D	10	45	45		P		P						P	P																	P		
181	1119	C	11	H	2	139	95.43	M	70	15	15						P	C			P	P			P							P	C								
181	1119	C	13	H	1	100	113.8	D	10	30	60						P	P	P		P	P			P							*	P					*		*	
181	1119	C	13	H	7	80	122.6	D	20	20	60						C	P	P		P	P			C							P	P					P		P	
181	1119	C	14	H	5	87	127.93	M	10	30	60				P		P	*	P		P	P			P	P					*	*	P					*		P	PIPE VESICLES AND GLASS SHARDS

Site 1119 Smear Slides									Texture				Mineral																				Biogenic											Rock		
Leg	Site	Hole	Core	Type	Section	Interval (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Calcite (30)	Carbonate (35)	Chlorite (45)	Clay (47)	Clinoptilolite (48)	Feldspar (71)	Glauconite (82)	Heavy Minerals (89)	Manganese (111)	Mica (118)	Opaques (140)	Oxides (146)	Pyrite (169)	Quartz (172)	Volcanic Glass (81)	Zeolite (222)	Zircon (223)	Bryozoa (24)	Coccolith (51)	Diatoms (58)	Foraminifers (78)	Nannofossils (132)	Ostracod (144)	Radiolarians (173)	Silicoflagellates (189)	Skeletal Debris (192)	Sponge Spicules (199)	Fecal Pellet (70)	Lithic Fragments (106)	Comments
181	1119	C	15	H	6	62	139.92	D	20	20	60						P	P	P		*	P			P							C	C				C	P		P	
181	1119	C	16	H	6	42	147.69	M	20	30	50						P	*	P		P	P			P	P						R	P				R	R		P	GLASS SHARDS
181	1119	C	17	H	5	97	157.77	M	30	30	40						P	*	P		*	P			P	P					P	*	P					P		*	
181	1119	C	18	X	7	31	168.89	M	10	30	60						P		P		*	P			P				P		P	P	P		P					P	
181	1119	C	19	X	1	112	169.82	D	30	35	35						P	*	P		*	P			P				P		*	C	P				A	P			
181	1119	C	20	X	4	88	183.61	D	10	30	60						P	P	P		*	P			P				P			C	P				A	P			
181	1119	C	21	X	6	37	195.77	D	5	25	70						P	*	P		*	*			P				P			*	P					P			
181	1119	C	22	X	7	40	205.79	M	10	45	45		P	*	C						P	P			P							R	R				R	P			
181	1119	C	23	X	3	90	210.12	D	2	40	58		R		C		P				P	P		P	P								R				P	P			
181	1119	C	23	X	7	46	215.41	M	5	45	50		R		C		P	P			P	P		*	P							R	R					P		P	
181	1119	C	25	X	5	70	233.1	D	5	40	55		P		C		P	P	R		P	P		P	P							R						P		P	
181	1119	C	26	X	3	120	240.2	D	10	45	45		P		C		P				P	P		P	P							P	R					P		P	
181	1119	C	26	X	6	20	243.7	M	30	30	40		P		C		P	P			P	P		P	P							P	P				P	C			
181	1119	C	28	X	5	100	262.2	D	R	20	80						P		P			P			P							P	A					P			
181	1119	C	28	X	6	80	263.5	M	R	25	75						P	*	P		*	P			P							P	C					P			
181	1119	C	31	X	2	130	285.87	M	20	20	60						C	*	P		P	P			C							P	P					P		P	
181	1119	C	31	X	2	133	285.9	M	R	20	80						A		P						A																SILICEOUS CLAY
181	1119	C	31	X	4	56	288.13	M	40	30	30						C				P	P			C							*	P					*			
181	1119	C	33	X	1	52	303.92	D	15	45	40						P	*	P		P	P			P							P	C				C	P	P	P	
181	1119	C	33	X	2	140	306.3	M	20	30	50		C				P	*	*			*			P							C	A		P			P			
181	1119	C	34	X	1	29	313.29	D	10	30	60						P	*	*			*			P					P	P	P	P				P				
181	1119	C	34	X	1	31	313.31	M	10	30	60						P	*	P			*			P												P				
181	1119	C	35	X	1	99	323.29	D	20	30	50		P				P		P			P			P	*					P	P	P				*	P		P	
181	1119	C	36	X	2	61	334.01	D	20	20	60						P	P	P			P										C	C					P			
181	1119	C	37	X	1	76	342.26	D	20	30	50		P				P	P	P		P	P										C					C	P			
181	1119	C	38	X	1	30	351.4	D	5	20	75		C				P	P	P		*											P	C					P		P	
181	1119	C	38	X	6	22	358.82	M	20	30	50						P	P	P		P	C			P	P						C									
181	1119	C	42	X	2	110	392.4	D	20	20	60		P				P		P			P		P	P							P	C				P				
181	1119	C	44	X	1	60	409.6	D	R	20	80						P	P	*			*		*	P	*				*		P	C					P			
181	1119	C	44	X	CC	20	418.67	D	10	30	60		C				P	*	P			*			P					P		P	C					P			
181	1119	C	46	X	3	90	432.1	D	5	10	85						C		P		*	P			C	*						P									SILICICLASTIC
181	1119	C	51	X	5	124	482.84	M	3	20	77		P	P	C		C	*							C							P	R								