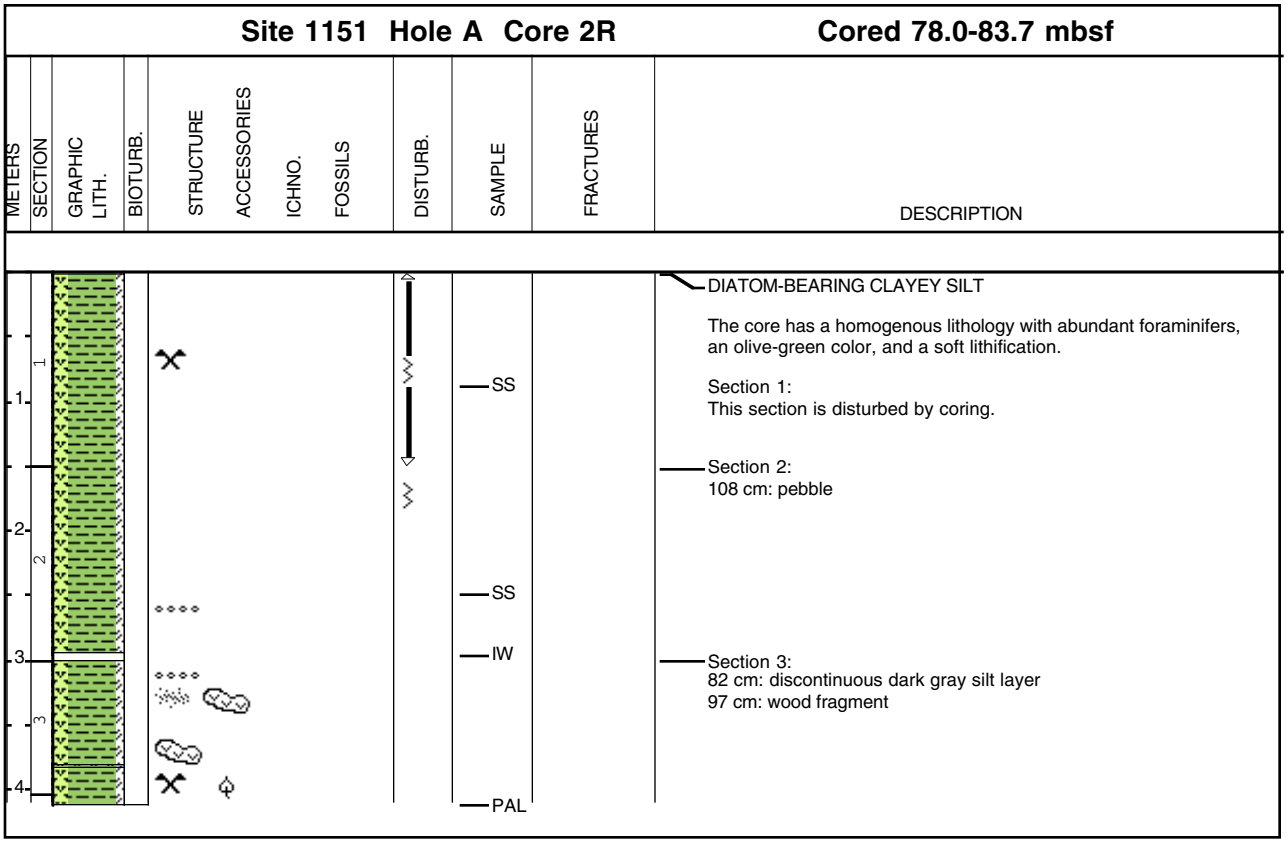
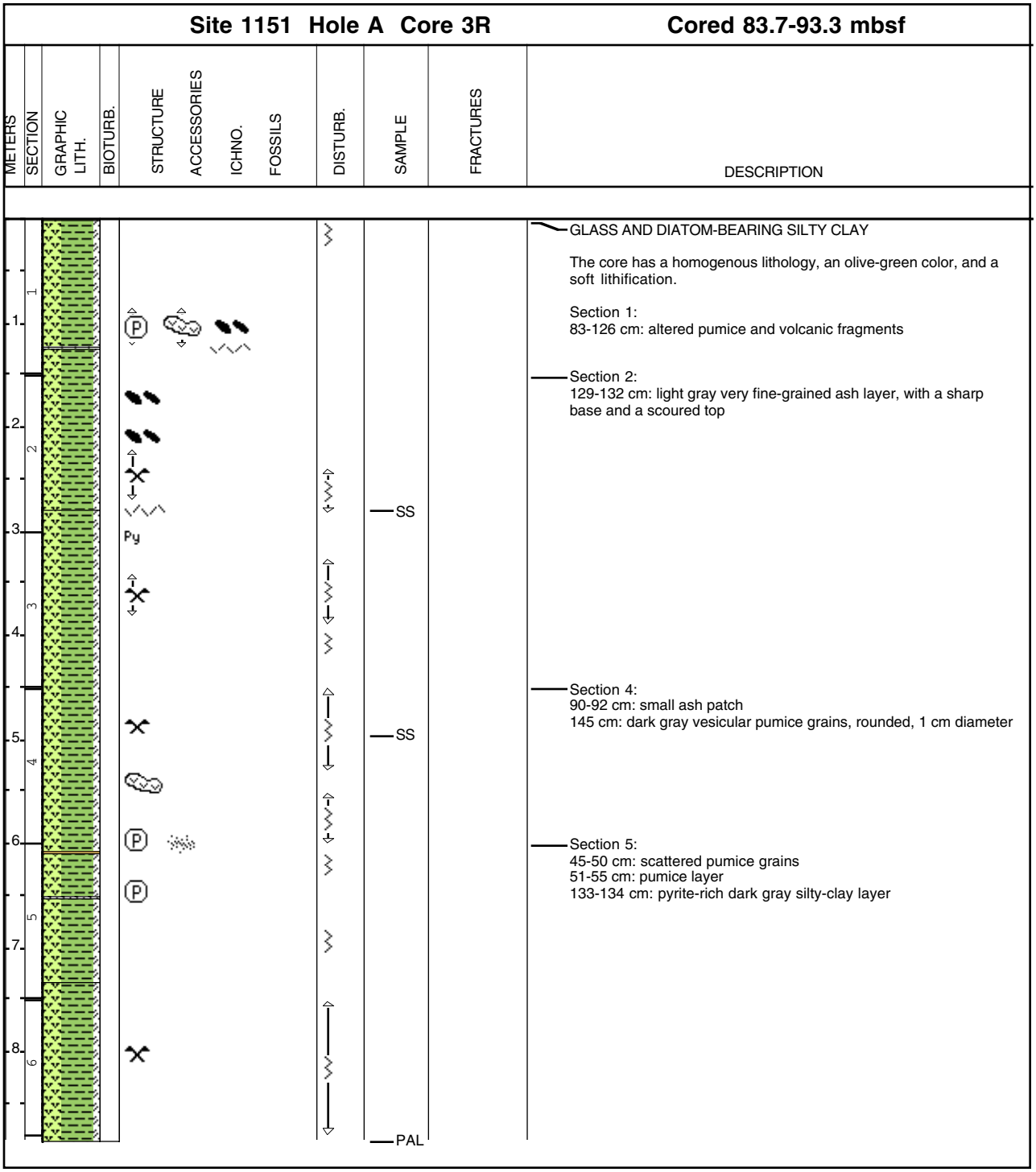
Core Photo

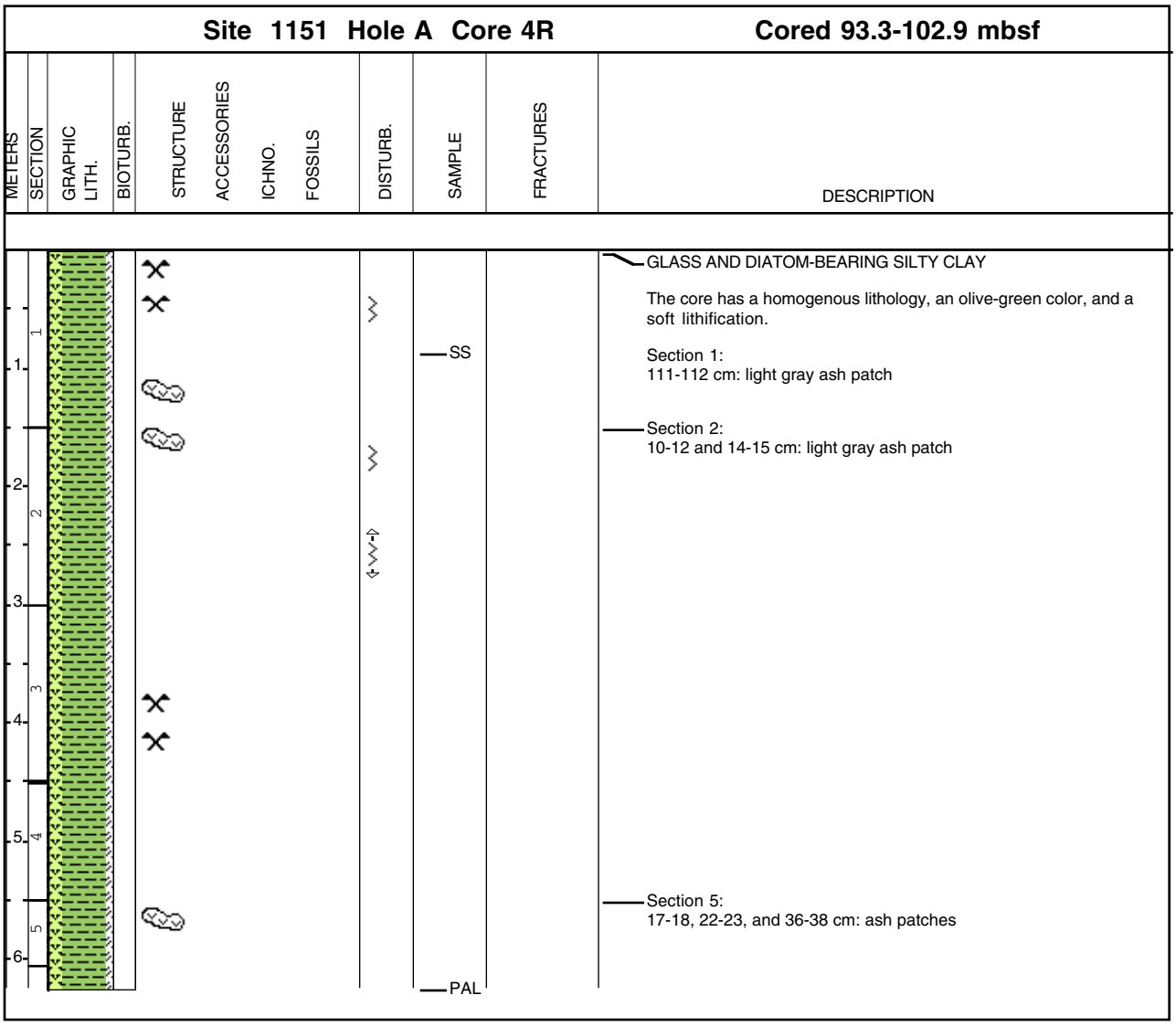


1151A-1W WASH CORE

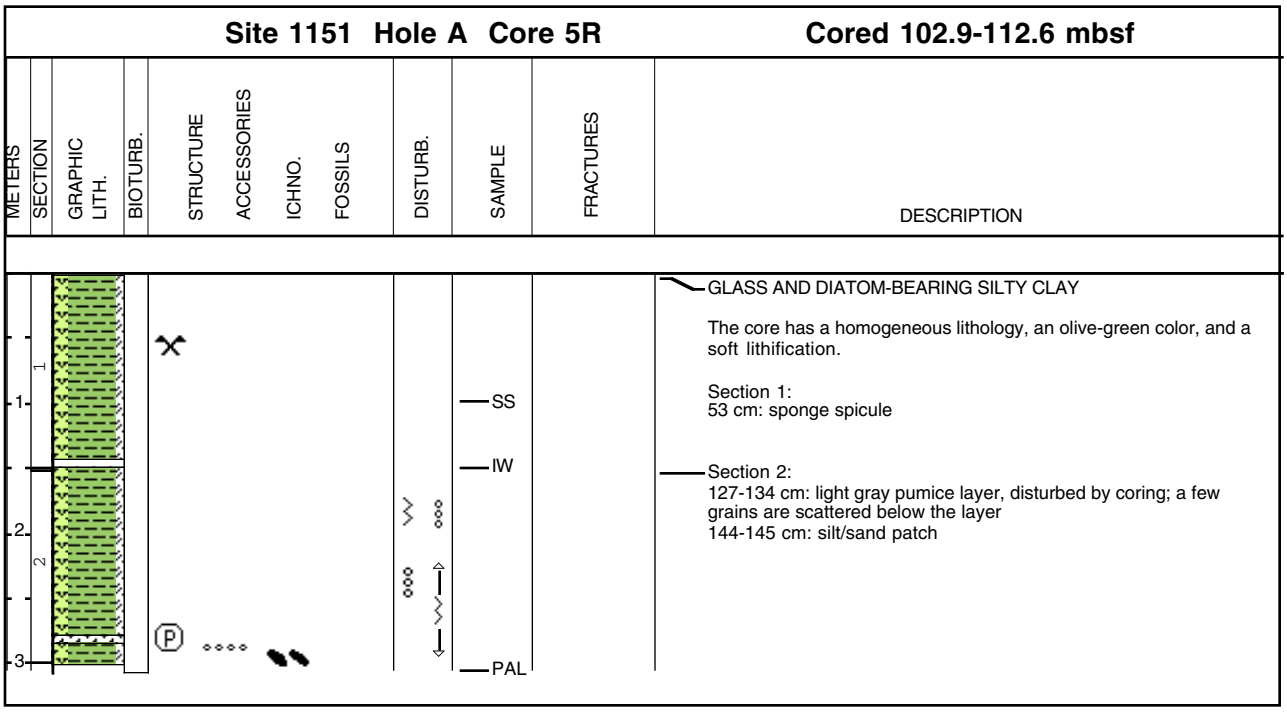
Core Photo


Site 1151 Hole A Core 3R
Cored 83.7-93.3 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
Py
SS
SS
PAL
GLASS AND DIATOM-BEARING SILTY CLAY
The core has a homogenous lithology, an olive-green color, and a soft lithification.
Section 1:
83-126 cm: altered pumice and volcanic fragments
Section 2:
129-132 cm: light gray very fine-grained ash layer, with a sharp base and a scoured top
Section 4:
90-92 cm: small ash patch
145 cm: dark gray vesicular pumice grains, rounded, 1 cm diameter
Section 5:
45-50 cm: scattered pumice grains
51-55 cm: pumice layer
133-134 cm: pyrite-rich dark gray silty-clay layer

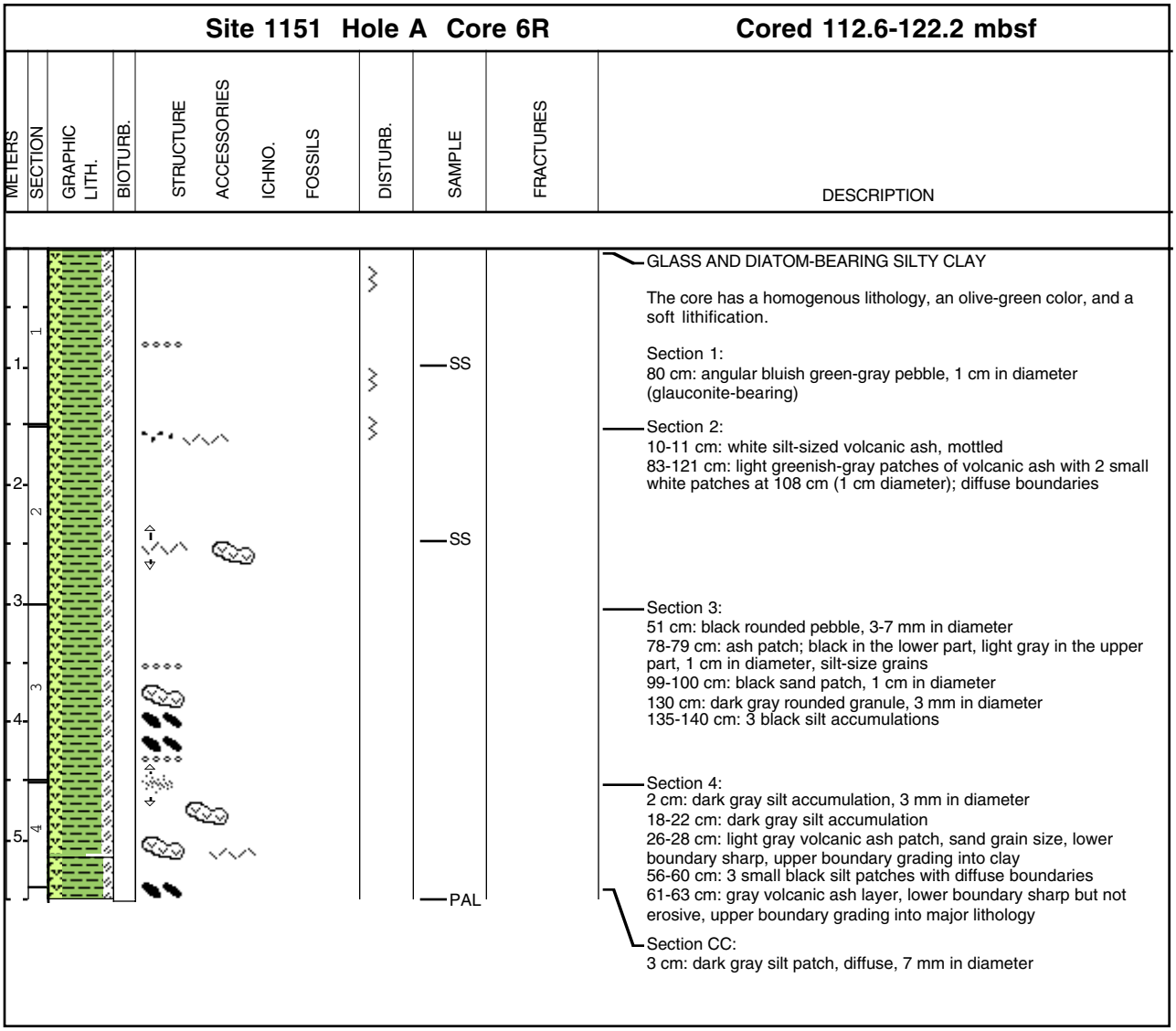
Core Photo


Site 1151 Hole A Core 4R
Cored 93.3-102.9 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
PAL
GLASS AND DIATOM-BEARING SILTY CLAY
The core has a homogenous lithology, an olive-green color, and a soft lithification.
Section 1:
111-112 cm: light gray ash patch
Section 2:
10-12 and 14-15 cm: light gray ash patch
Section 5:
17-18, 22-23, and 36-38 cm: ash patches

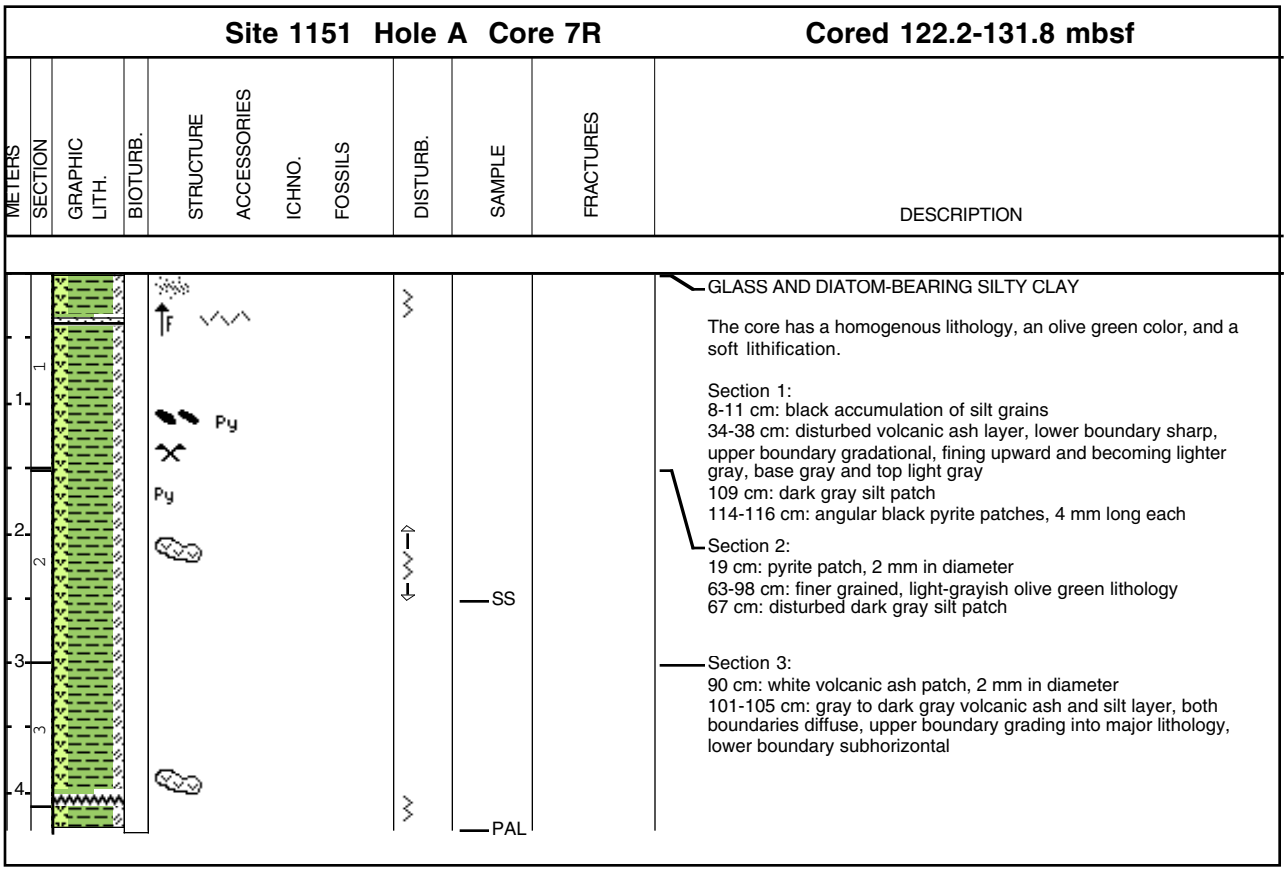
Core Photo


Site 1151 Hole A Core 5R
Cored 102.9-112.6 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
IW
PAL
GLASS AND DIATOM-BEARING SILTY CLAY
The core has a homogeneous lithology, an olive-green color, and a soft lithification.
Section 1:
53 cm: sponge spicule
Section 2:
127-134 cm: light gray pumice layer, disturbed by coring; a few grains are scattered below the layer
144-145 cm: silt/sand patch

Core Photo


Site 1151 Hole A Core 6R
Cored 112.6-122.2 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
SS
PAL
GLASS AND DIATOM-BEARING SILTY CLAY
The core has a homogenous lithology, an olive-green color, and a soft lithification.
Section 1:
80 cm: angular bluish green-gray pebble, 1 cm in diameter (glauconite-bearing)
Section 2:
10-11 cm: white silt-sized volcanic ash, mottled
83-121 cm: light greenish-gray patches of volcanic ash with 2 small white patches at 108 cm (1 cm diameter); diffuse boundaries
Section 3:
51 cm: black rounded pebble, 3-7 mm in diameter
78-79 cm: ash patch; black in the lower part, light gray in the upper part, 1 cm in diameter, silt-size grains
99-100 cm: black sand patch, 1 cm in diameter
130 cm: dark gray rounded granule, 3 mm in diameter
135-140 cm: 3 black silt accumulations
Section 4:
2 cm: dark gray silt accumulation, 3 mm in diameter
18-22 cm: dark gray silt accumulation
26-28 cm: light gray volcanic ash patch, sand grain size, lower boundary sharp, upper boundary grading into clay
56-60 cm: 3 small black silt patches with diffuse boundaries
61-63 cm: gray volcanic ash layer, lower boundary sharp but not erosive, upper boundary grading into major lithology
Section CC:
3 cm: dark gray silt patch, diffuse, 7 mm in diameter

Core Photo


Site 1151 Hole A Core 7R
Cored 122.2-131.8 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
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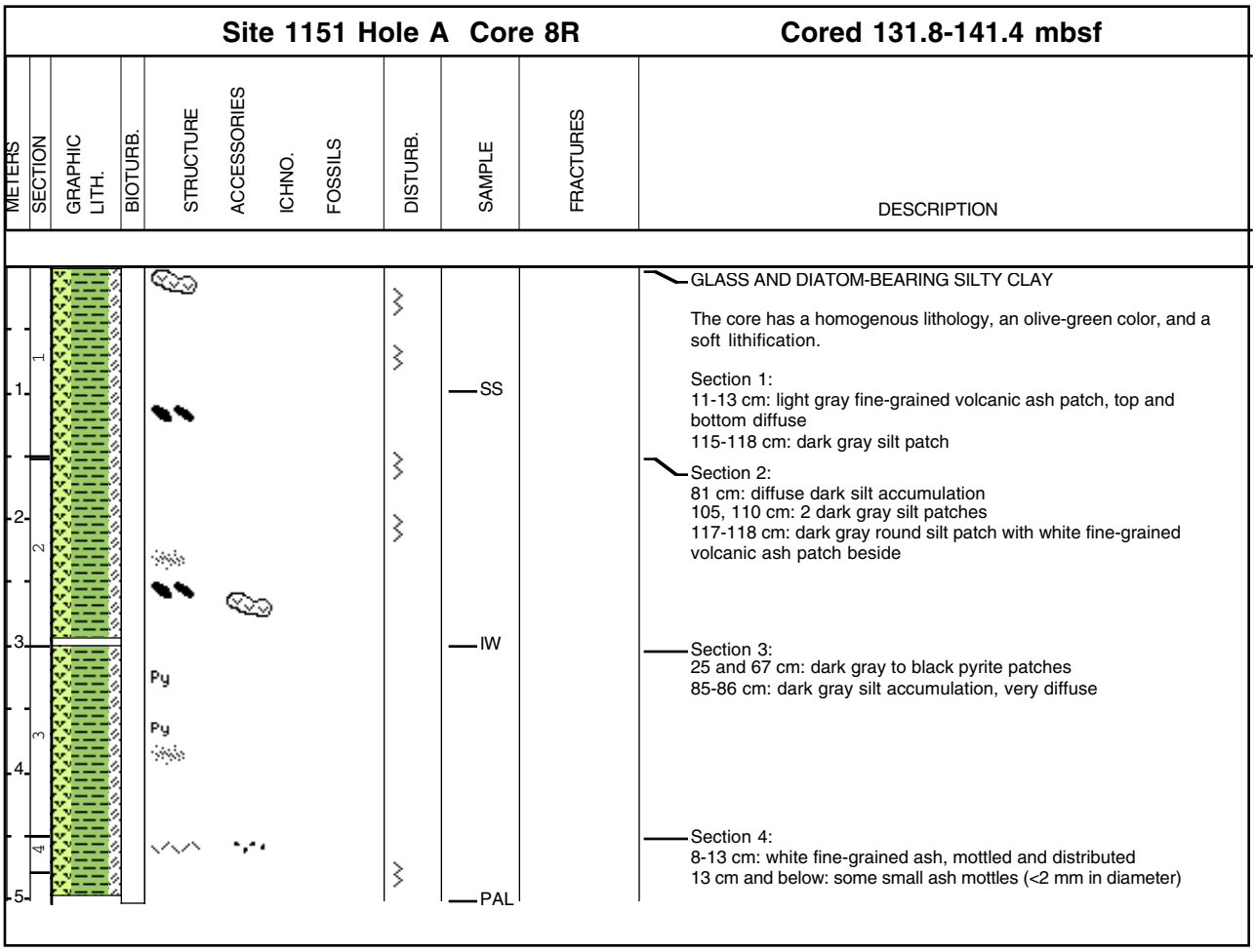
PAL
GLASS AND DIATOM-BEARING SILTY CLAY
The core has a homogenous lithology, an olive green color, and a soft lithification.
Section 1:
8-11 cm: black accumulation of silt grains
34-38 cm: disturbed volcanic ash layer, lower boundary sharp, upper boundary gradational, fining upward and becoming lighter gray, base gray and top light gray
109 cm: dark gray silt patch
114-116 cm: angular black pyrite patches, 4 mm long each
Section 2:
19 cm: pyrite patch, 2 mm in diameter
63-98 cm: finer grained, light-grayish olive green lithology
67 cm: disturbed dark gray silt patch
Section 3:
90 cm: white volcanic ash patch, 2 mm in diameter
101-105 cm: gray to dark gray volcanic ash and silt layer, both boundaries diffuse, upper boundary grading into major lithology, lower boundary subhorizontal

Core Photo


Site 1151 Hole A Core 8R
Cored 131.8-141.4 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
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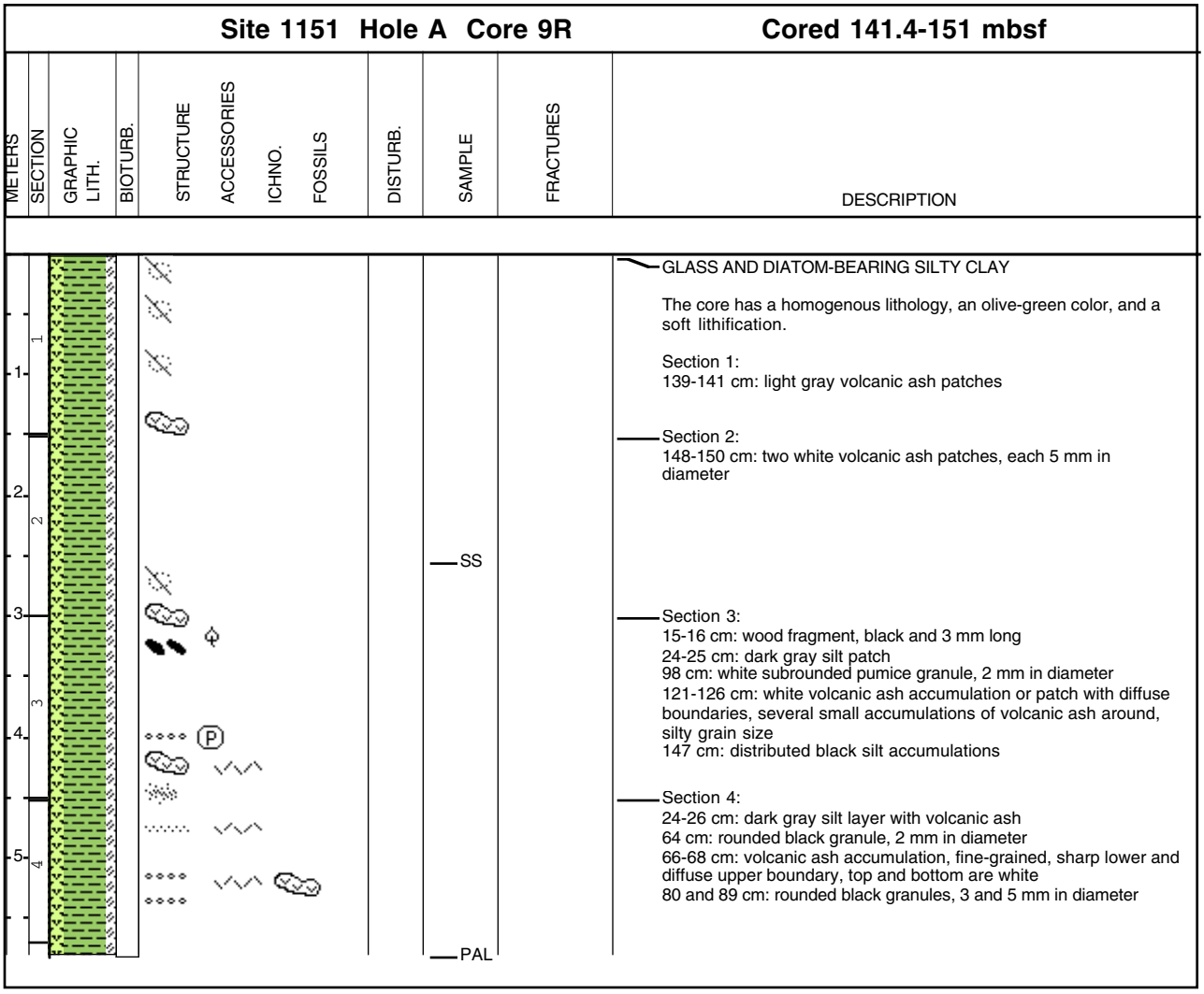
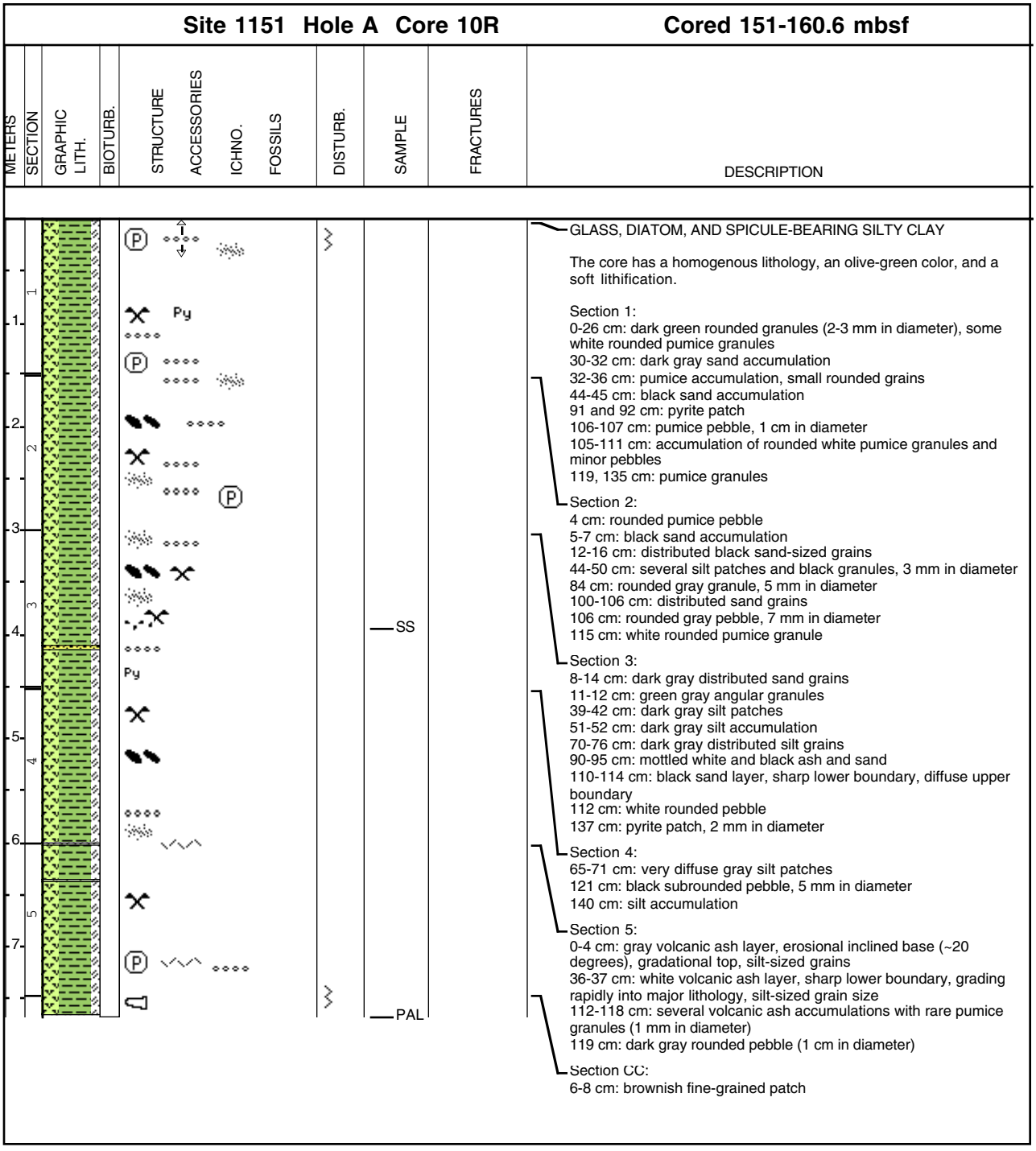
Py
GLASS AND DIATOM-BEARING SILTY CLAY
The core has a homogenous lithology, an olive-green color, and a soft lithification.
Section 1:
11-13 cm: light gray fine-grained volcanic ash patch, top and bottom diffuse
115-118 cm: dark gray silt patch
Section 2:
81 cm: diffuse dark silt accumulation
105, 110 cm: 2 dark gray silt patches
117-118 cm: dark gray round silt patch with white fine-grained volcanic ash patch beside
Section 3:
25 and 67 cm: dark gray to black pyrite patches
85-86 cm: dark gray silt accumulation, very diffuse
Section 4:
8-13 cm: white fine-grained ash, mottled and distributed
13 cm and below: some small ash mottles (<2 mm in diameter)

Core Photo


Site 1151 Hole A Core 9R
Cored 141.4-151 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
PAL
GLASS AND DIATOM-BEARING SILTY CLAY
The core has a homogenous lithology, an olive-green color, and a soft lithification.
Section 1:
139-141 cm: light gray volcanic ash patches
Section 2:
148-150 cm: two white volcanic ash patches, each 5 mm in diameter
Section 3:
15-16 cm: wood fragment, black and 3 mm long
24-25 cm: dark gray silt patch
98 cm: white subrounded pumice granule, 2 mm in diameter
121-126 cm: white volcanic ash accumulation or patch with diffuse boundaries, several small accumulations of volcanic ash around, silty grain size
147 cm: distributed black silt accumulations
Section 4:
24-26 cm: dark gray silt layer with volcanic ash
64 cm: rounded black granule, 2 mm in diameter
66-68 cm: volcanic ash accumulation, fine-grained, sharp lower and diffuse upper boundary, top and bottom are white
80 and 89 cm: rounded black granules, 3 and 5 mm in diameter

Core Photo


Site 1151 Hole A Core 10R
Cored 151-160.6 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
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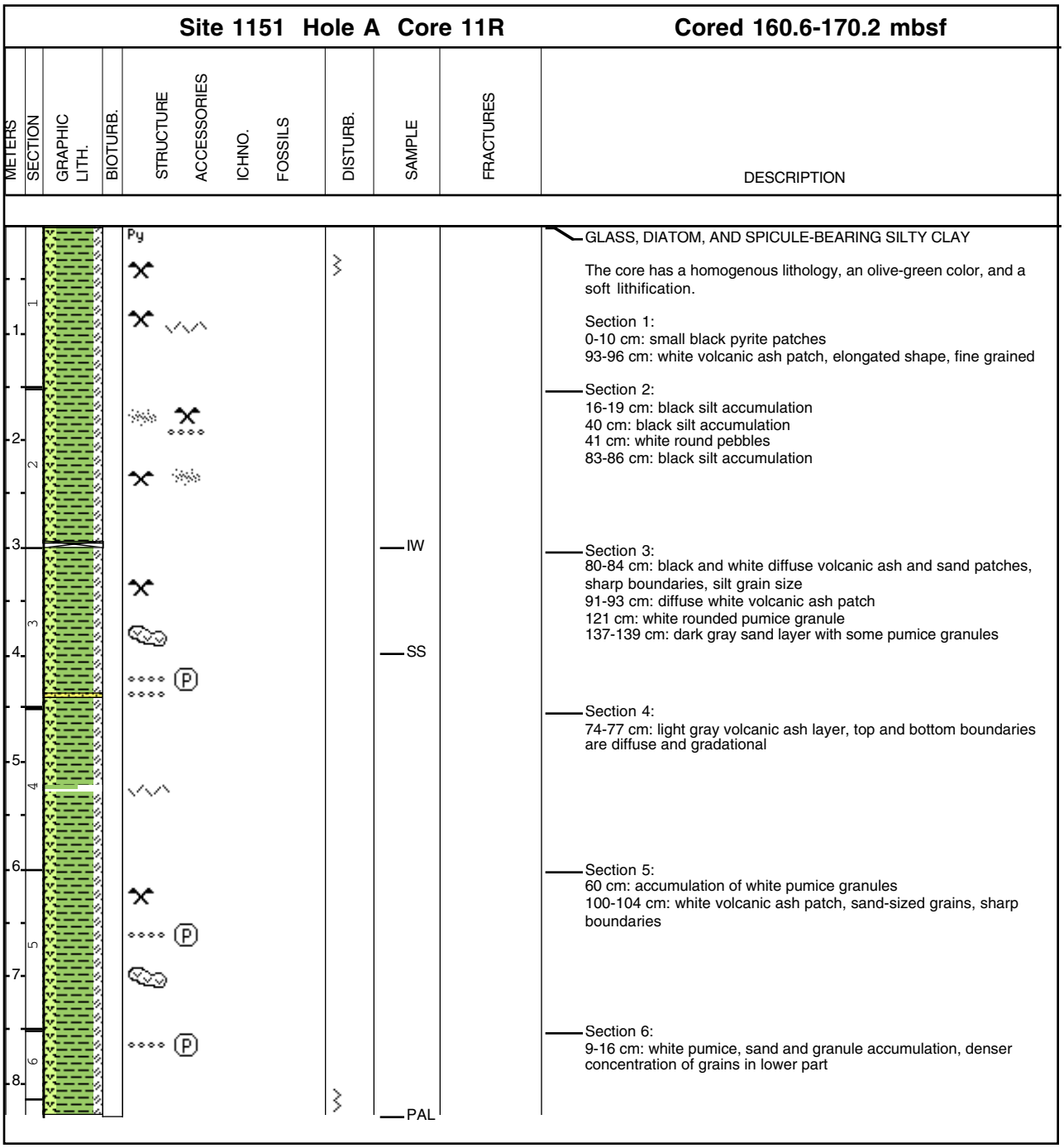
PAL
GLASS, DIATOM, AND SPICULE-BEARING SILTY CLAY
The core has a homogenous lithology, an olive-green color, and a soft lithification.
Section 1:
0-26 cm: dark green rounded granules (2-3 mm in diameter), some white rounded pumice granules
30-32 cm: dark gray sand accumulation
32-36 cm: pumice accumulation, small rounded grains
44-45 cm: black sand accumulation
91 and 92 cm: pyrite patch
106-107 cm: pumice pebble, 1 cm in diameter
105-111 cm: accumulation of rounded white pumice granules and minor pebbles
119, 135 cm: pumice granules
Section 2:
4 cm: rounded pumice pebble
5-7 cm: black sand accumulation
12-16 cm: distributed black sand-sized grains
44-50 cm: several silt patches and black granules, 3 mm in diameter
84 cm: rounded gray granule, 5 mm in diameter
100-106 cm: distributed sand grains
106 cm: rounded gray pebble, 7 mm in diameter
115 cm: white rounded pumice granule
Section 3:
8-14 cm: dark gray distributed sand grains
11-12 cm: green gray angular granules
39-42 cm: dark gray silt patches
51-52 cm: dark gray silt accumulation
70-76 cm: dark gray distributed silt grains
90-95 cm: mottled white and black ash and sand
110-114 cm: black sand layer, sharp lower boundary, diffuse upper boundary
112 cm: white rounded pebble
137 cm: pyrite patch, 2 mm in diameter
Section 4:
65-71 cm: very diffuse gray silt patches
121 cm: black subrounded pebble, 5 mm in diameter
140 cm: silt accumulation
Section 5:
0-4 cm: gray volcanic ash layer, erosional inclined base (~20 degrees), gradational top, silt-sized grains
36-37 cm: white volcanic ash layer, sharp lower boundary, grading rapidly into major lithology, silt-sized grain size
112-118 cm: several volcanic ash accumulations with rare pumice granules (1 mm in diameter)
119 cm: dark gray rounded pebble (1 cm in diameter)
Section CC:
6-8 cm: brownish fine-grained patch

Core Photo


Site 1151 Hole A Core 11R
Cored 160.6-170.2 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
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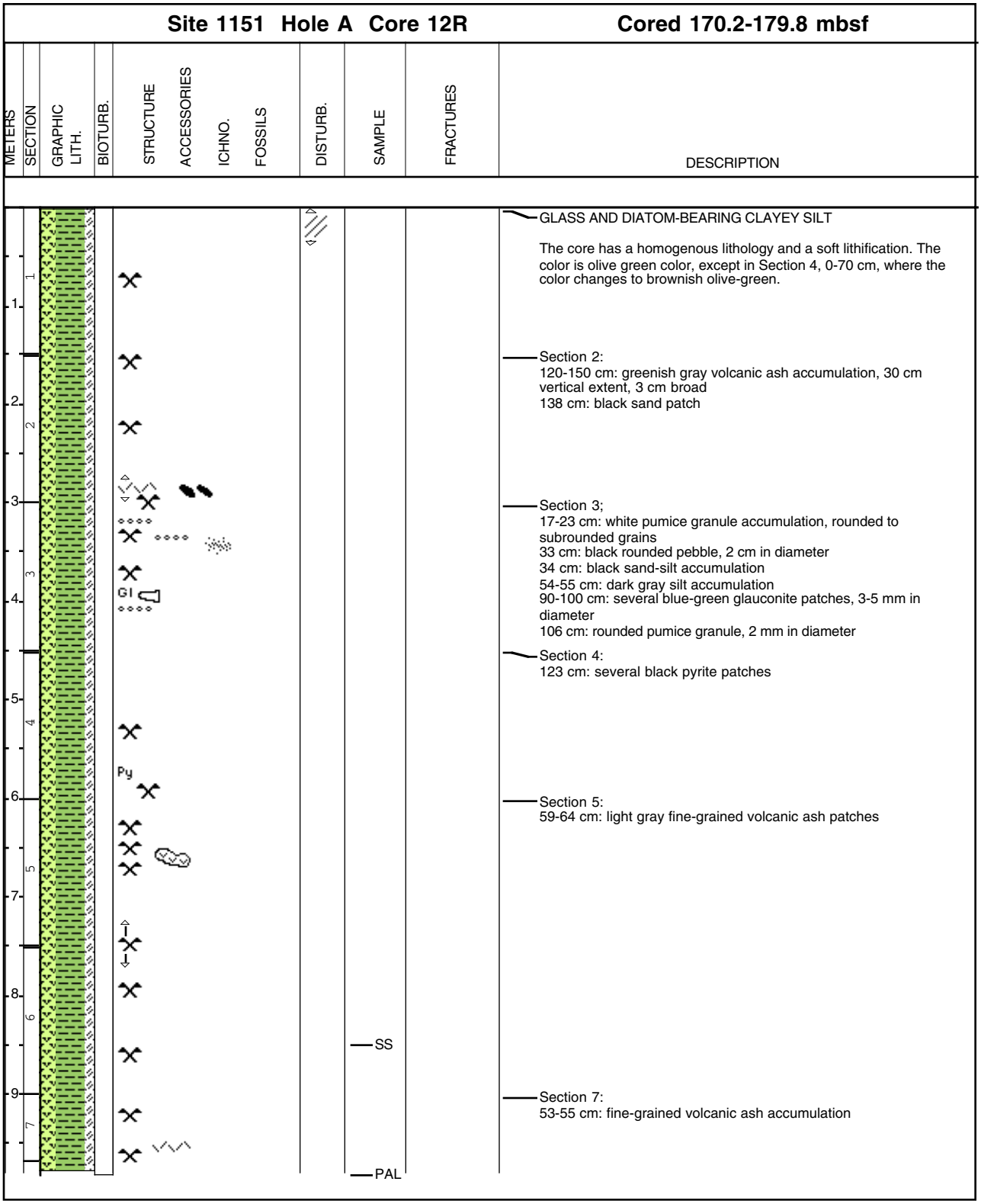
GLASS, DIATOM, AND SPICULE-BEARING SILTY CLAY
The core has a homogenous lithology, an olive-green color, and a soft lithification.
Section 1:
0-10 cm: small black pyrite patches
93-96 cm: white volcanic ash patch, elongated shape, fine grained
Section 2:
16-19 cm: black silt accumulation
40 cm: black silt accumulation
41 cm: white round pebbles
83-86 cm: black silt accumulation
Section 3:
80-84 cm: black and white diffuse volcanic ash and sand patches, sharp boundaries, silt grain size
91-93 cm: diffuse white volcanic ash patch
121 cm: white rounded pumice granule
137-139 cm: dark gray sand layer with some pumice granules
Section 4:
74-77 cm: light gray volcanic ash layer, top and bottom boundaries are diffuse and gradational
Section 5:
60 cm: accumulation of white pumice granules
100-104 cm: white volcanic ash patch, sand-sized grains, sharp boundaries
Section 6:
9-16 cm: white pumice, sand and granule accumulation, denser concentration of grains in lower part

Core Photo


Site 1151 Hole A Core 12R
Cored 170.2-179.8 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
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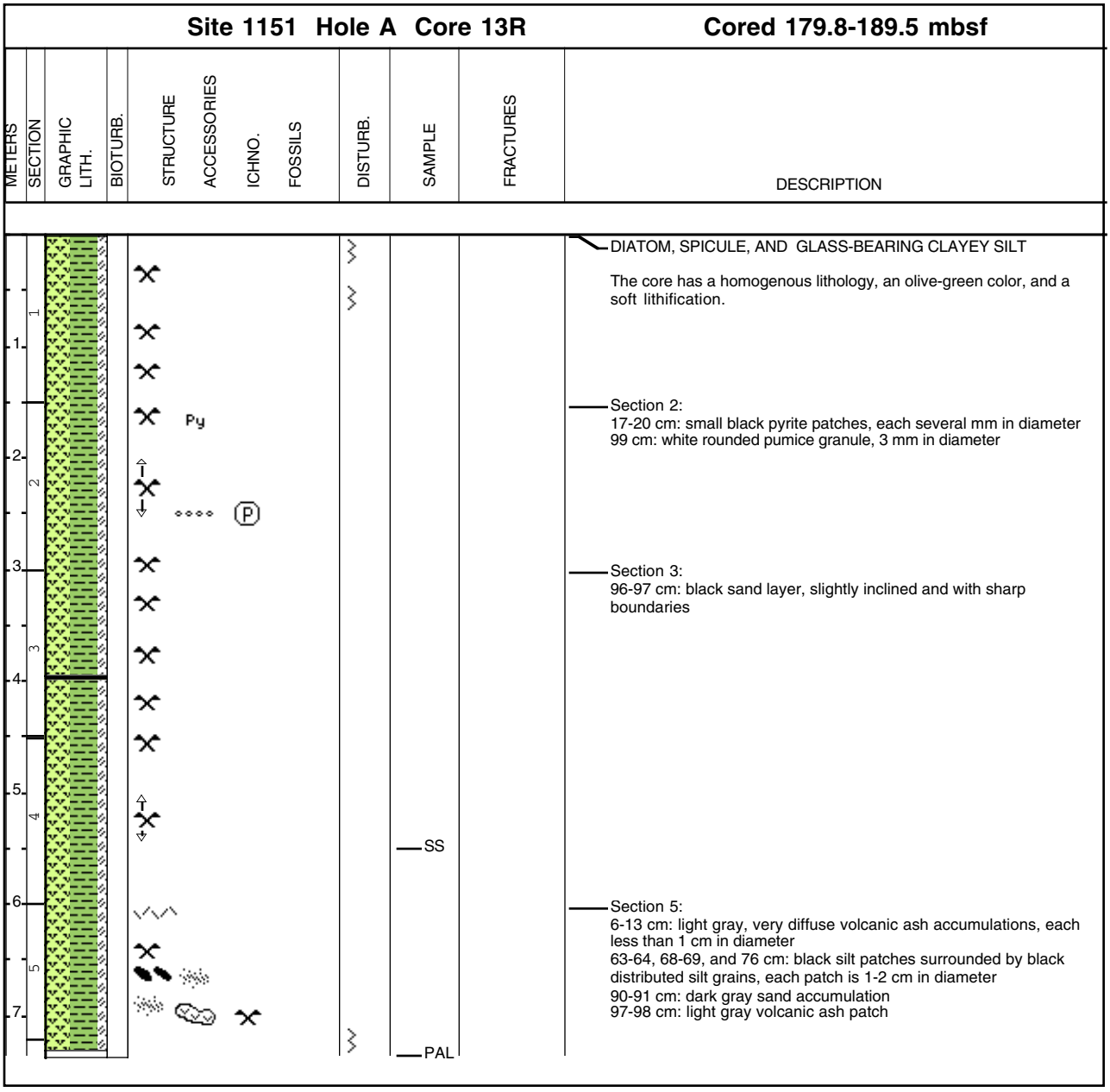
PAL
GLASS AND DIATOM-BEARING CLAYEY SILT
The core has a homogenous lithology and a soft lithification. The color is olive green color, except in Section 4, 0-70 cm, where the color changes to brownish olive-green.
Section 2:
120-150 cm: greenish gray volcanic ash accumulation, 30 cm vertical extent, 3 cm broad
138 cm: black sand patch
Section 3;
17-23 cm: white pumice granule accumulation, rounded to subrounded grains
33 cm: black rounded pebble, 2 cm in diameter
34 cm: black sand-silt accumulation
54-55 cm: dark gray silt accumulation
90-100 cm: several blue-green glauconite patches, 3-5 mm in diameter
106 cm: rounded pumice granule, 2 mm in diameter
Section 4:
123 cm: several black pyrite patches
Section 5:
59-64 cm: light gray fine-grained volcanic ash patches
Section 7:
53-55 cm: fine-grained volcanic ash accumulation

Core Photo


Site 1151 Hole A Core 13R
Cored 179.8-189.5 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
Py
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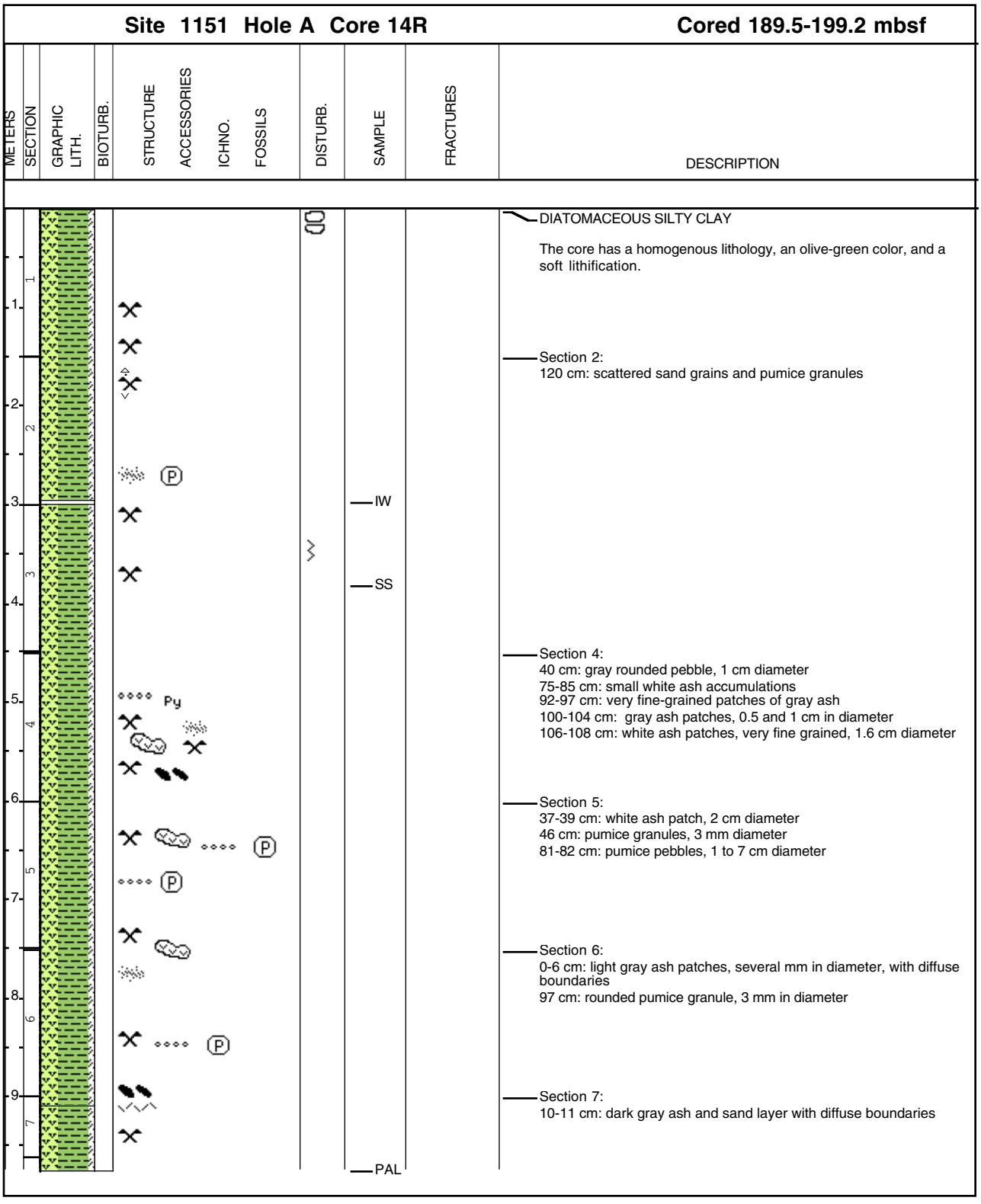
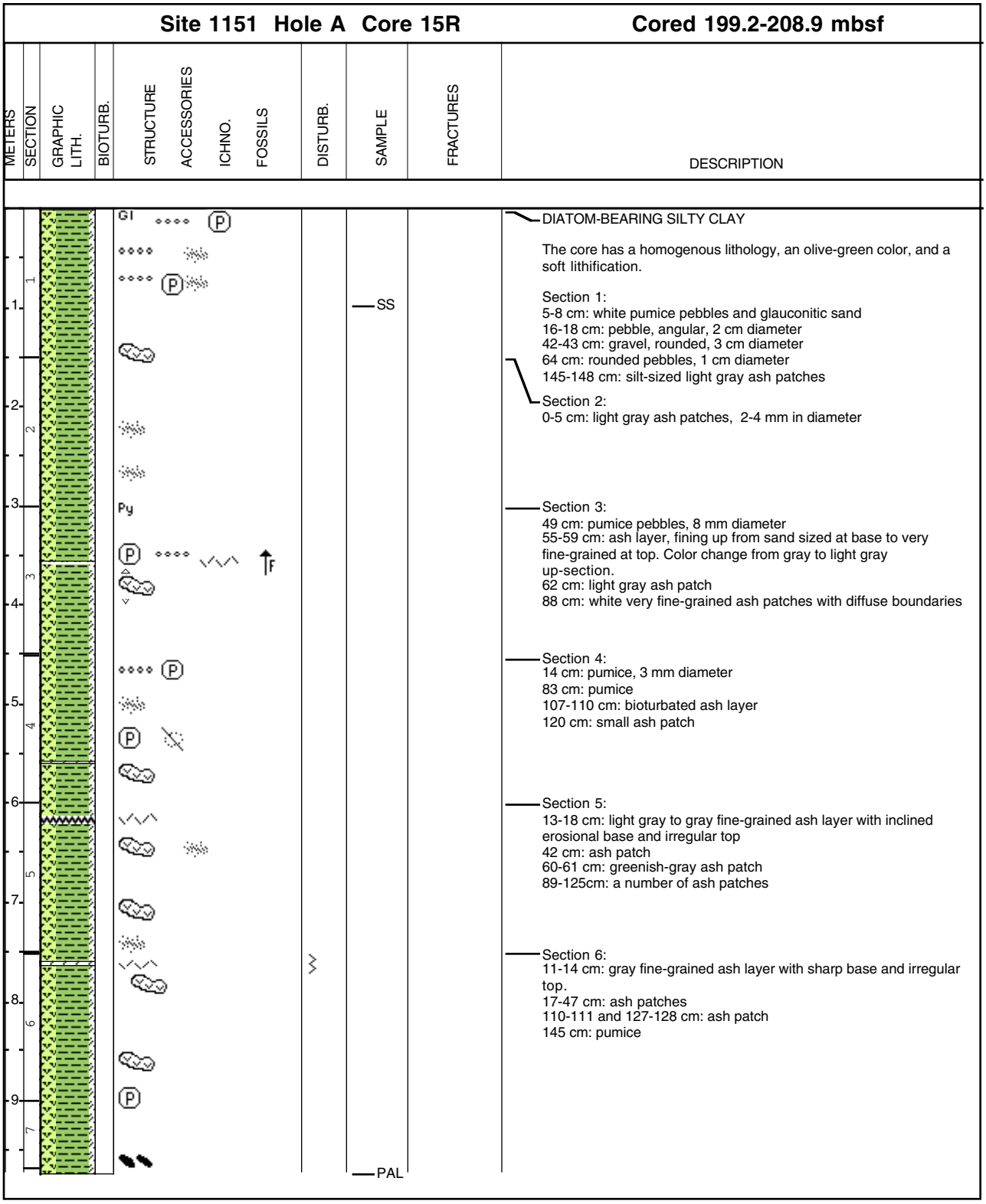
PAL
DIATOM, SPICULE, AND GLASS-BEARING CLAYEY SILT
The core has a homogenous lithology, an olive-green color, and a soft lithification.
Section 2:
17-20 cm: small black pyrite patches, each several mm in diameter
99 cm: white rounded pumice granule, 3 mm in diameter
Section 3:
96-97 cm: black sand layer, slightly inclined and with sharp boundaries
Section 5:
6-13 cm: light gray, very diffuse volcanic ash accumulations, each less than 1 cm in diameter
63-64, 68-69, and 76 cm: black silt patches surrounded by black distributed silt grains, each patch is 1-2 cm in diameter
90-91 cm: dark gray sand accumulation
97-98 cm: light gray volcanic ash patch

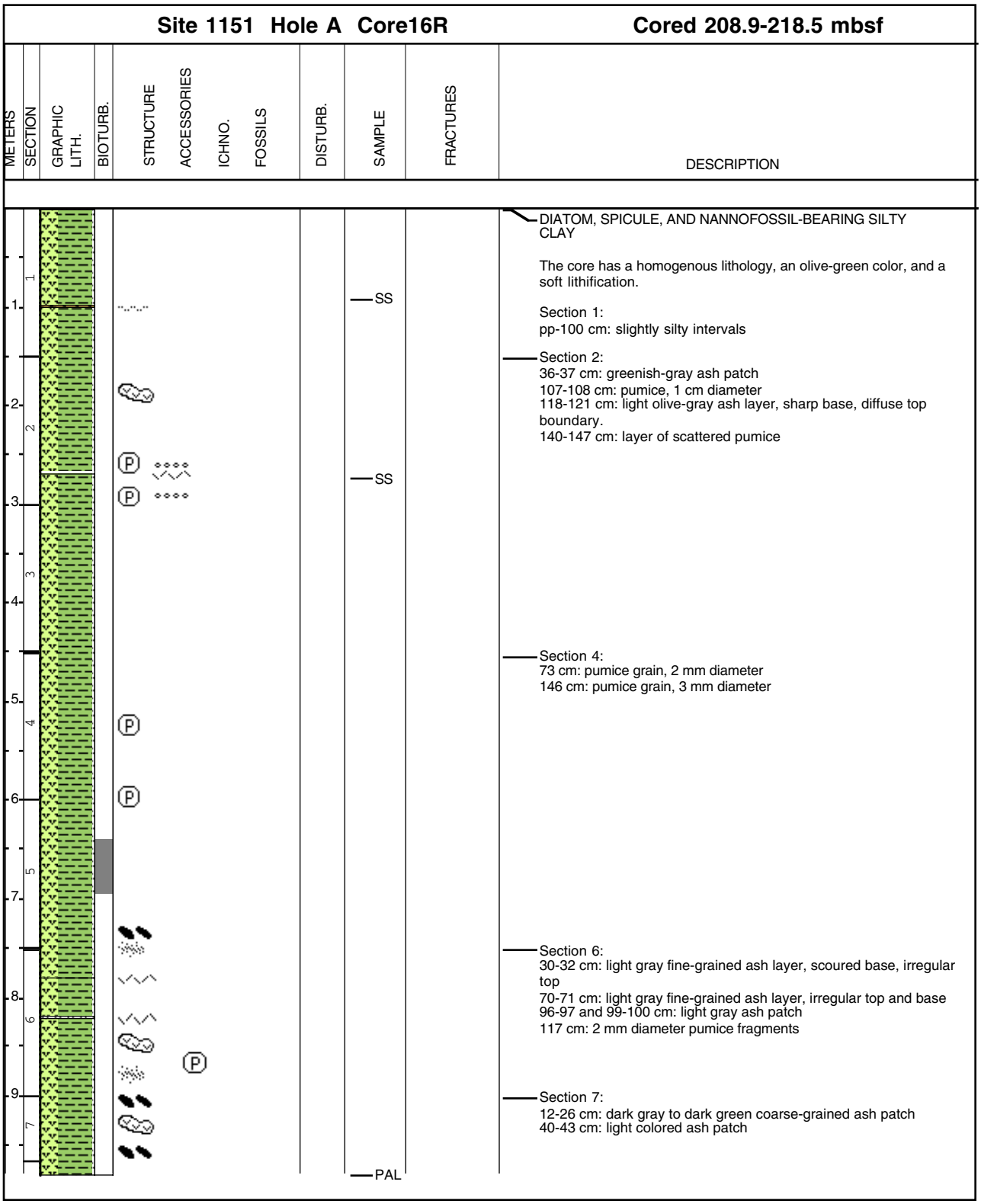
Core Photo


Site 1151 Hole A Core 14R
Cored 189.5-199.2 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
IW
SS
PAL
Py
P
DIATOMACEOUS SILTY CLAY
The core has a homogenous lithology, an olive-green color, and a soft lithification.
Section 2:
120 cm: scattered sand grains and pumice granules
Section 4:
40 cm: gray rounded pebble, 1 cm diameter
75-85 cm: small white ash accumulations
92-97 cm: very fine-grained patches of gray ash
100-104 cm: gray ash patches, 0.5 and 1 cm in diameter
106-108 cm: white ash patches, very fine grained, 1.6 cm diameter
Section 5:
37-39 cm: white ash patch, 2 cm diameter
46 cm: pumice granules, 3 mm diameter
81-82 cm: pumice pebbles, 1 to 7 cm diameter
Section 6:
0-6 cm: light gray ash patches, several mm in diameter, with diffuse boundaries
97 cm: rounded pumice granule, 3 mm in diameter
Section 7:
10-11 cm: dark gray ash and sand layer with diffuse boundaries

Core Photo


Site 1151 Hole A Core 15R
Cored 199.2-208.9 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
PAL
DIATOM-BEARING SILTY CLAY
The core has a homogenous lithology, an olive-green color, and a soft lithification.
Section 1:
5-8 cm: white pumice pebbles and glauconitic sand
16-18 cm: pebble, angular, 2 cm diameter
42-43 cm: gravel, rounded, 3 cm diameter
64 cm: rounded pebbles, 1 cm diameter
145-148 cm: silt-sized light gray ash patches
Section 2:
0-5 cm: light gray ash patches, 2-4 mm in diameter
Section 3:
49 cm: pumice pebbles, 8 mm diameter
55-59 cm: ash layer, fining up from sand sized at base to very fine-grained at top. Color change from gray to light gray up-section.
62 cm: light gray ash patch
88 cm: white very fine-grained ash patches with diffuse boundaries
Section 4:
14 cm: pumice, 3 mm diameter
83 cm: pumice
107-110 cm: bioturbated ash layer
120 cm: small ash patch
Section 5:
13-18 cm: light gray to gray fine-grained ash layer with inclined erosional base and irregular top
42 cm: ash patch
60-61 cm: greenish-gray ash patch
89-125cm: a number of ash patches
Section 6:
11-14 cm: gray fine-grained ash layer with sharp base and irregular top.
17-47 cm: ash patches
110-111 and 127-128 cm: ash patch
145 cm: pumice

Core Photo


Site 1151 Hole A Core16R
Cored 208.9-218.5 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
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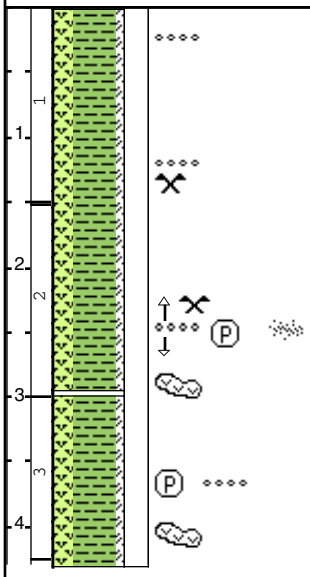
PAL
DIATOM, SPICULE, AND NANNOFOSSIL-BEARING SILTY CLAY
The core has a homogenous lithology, an olive-green color, and a soft lithification.
Section 1:
pp-100 cm: slightly silty intervals
Section 2:
36-37 cm: greenish-gray ash patch
107-108 cm: pumice, 1 cm diameter
118-121 cm: light olive-gray ash layer, sharp base, diffuse top boundary.
140-147 cm: layer of scattered pumice
Section 4:
73 cm: pumice grain, 2 mm diameter
146 cm: pumice grain, 3 mm diameter
Section 6:
30-32 cm: light gray fine-grained ash layer, scoured base, irregular top
70-71 cm: light gray fine-grained ash layer, irregular top and base
96-97 and 99-100 cm: light gray ash patch
117 cm: 2 mm diameter pumice fragments
Section 7:
12-26 cm: dark gray to dark green coarse-grained ash patch
40-43 cm: light colored ash patch

Core Photo

Site 1151 Hole A Core 17R **Cored 218.5-228.1 mbsf**



DIATOM, SPICULE, AND GLASS-BEARING SILTY CLAY

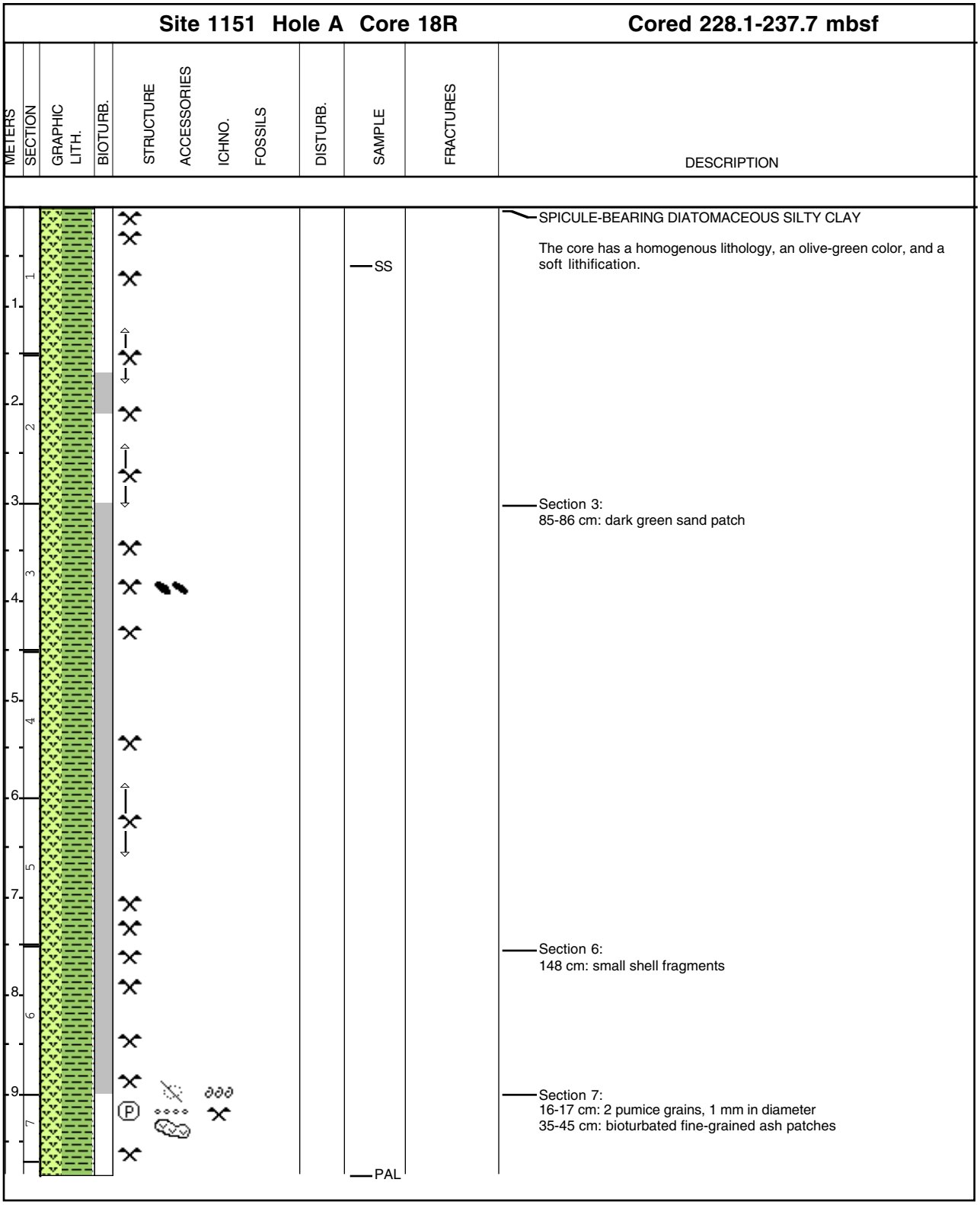
The core has a homogenous lithology, an olive-green color, and a soft lithification.

Section 1:
18 cm: pebble, 0.7 cm diameter
27 cm: pebble, 0.25 cm diameter

Section 2:
72-118 cm: a number of scattered pebbles, including pumice, 0.25-1.5 cm diameters.
140-142 cm: gray ash patch, 2 cm diameter

Section 3:
65-66 cm: pumice pebbles, 1.5 cm diameter
105-106 cm: light gray coarse ash patch with sharp boundaries
110-112 cm: light gray coarse ah patch with diffuse boundaries

Core Photo


Site 1151 Hole A Core 18R
Cored 228.1-237.7 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
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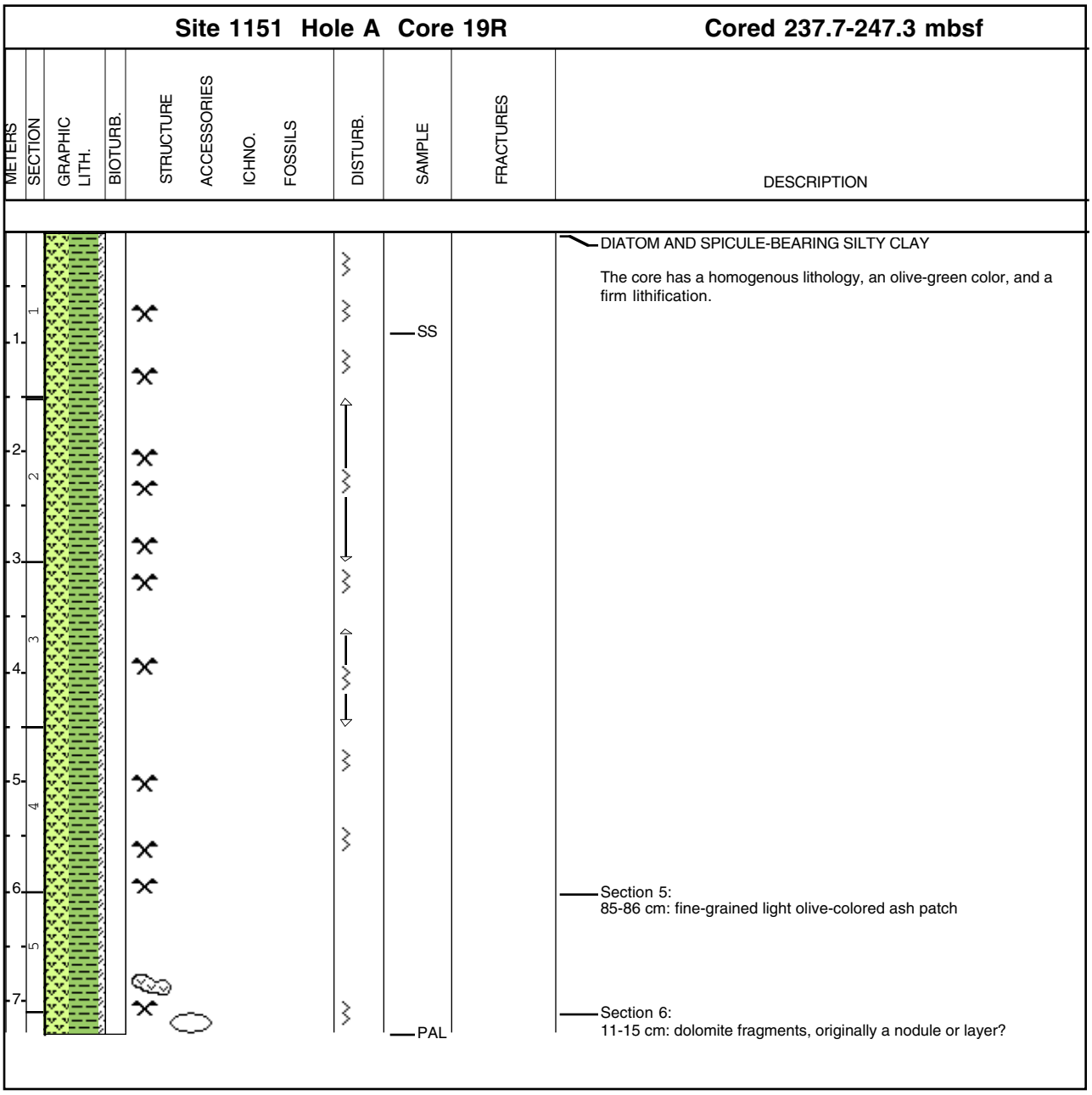
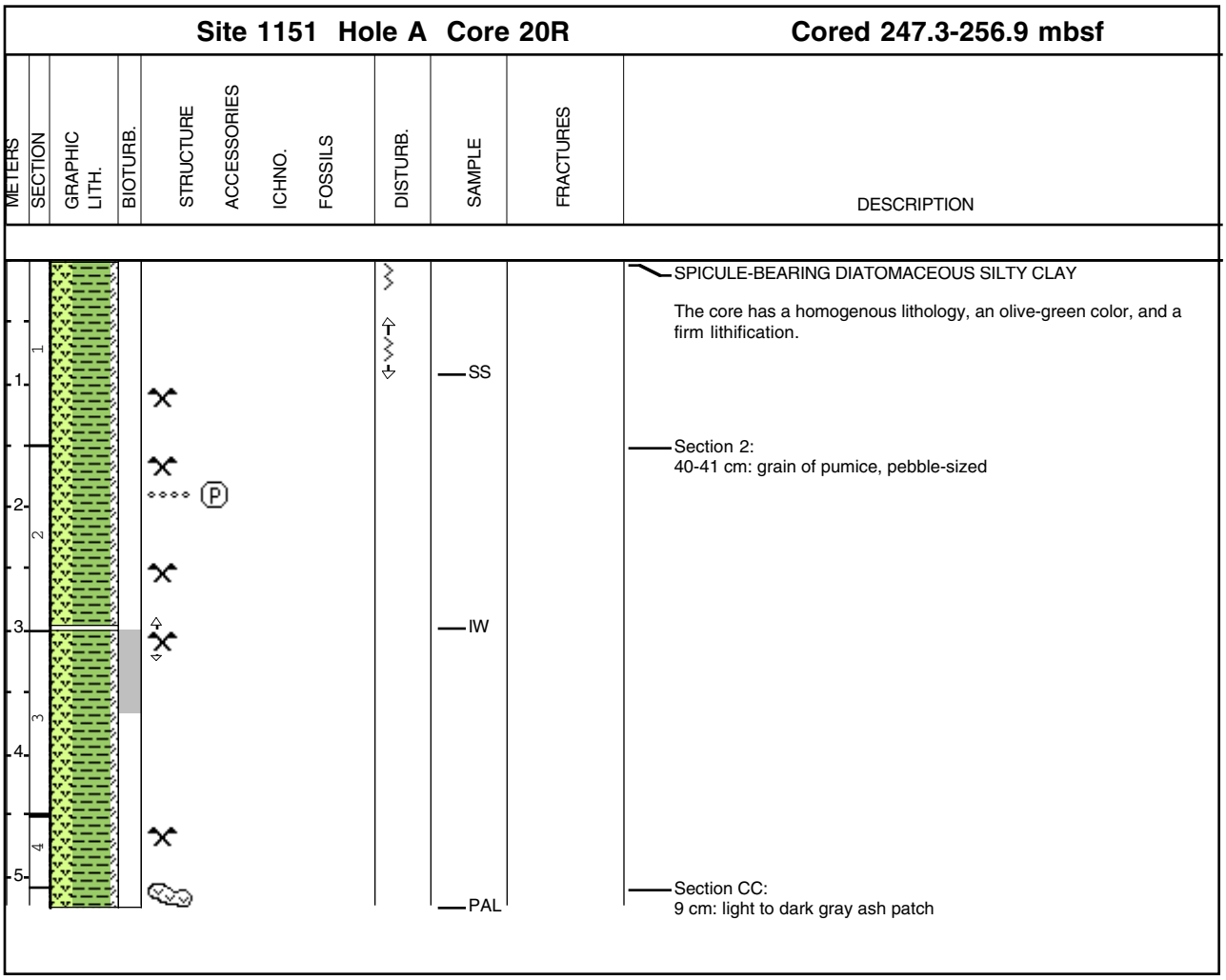
PAL
SPICULE-BEARING DIATOMACEOUS SILTY CLAY
The core has a homogenous lithology, an olive-green color, and a soft lithification.
Section 3:
85-86 cm: dark green sand patch
Section 6:
148 cm: small shell fragments
Section 7:
16-17 cm: 2 pumice grains, 1 mm in diameter
35-45 cm: bioturbated fine-grained ash patches

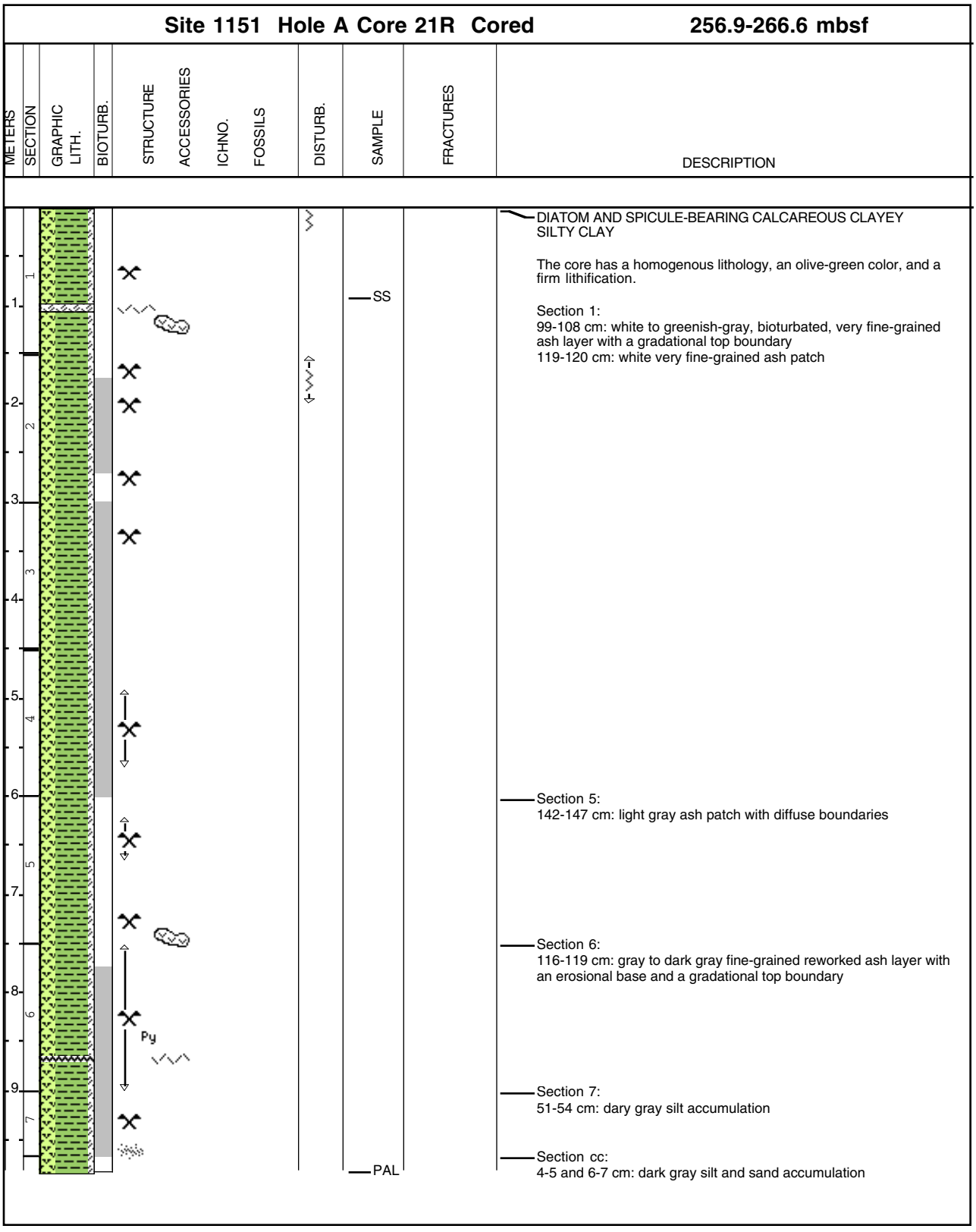
Core Photo


Site 1151 Hole A Core 19R
Cored 237.7-247.3 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
PAL
DIATOM AND SPICULE-BEARING SILTY CLAY
The core has a homogenous lithology, an olive-green color, and a firm lithification.
Section 5:
85-86 cm: fine-grained light olive-colored ash patch
Section 6:
11-15 cm: dolomite fragments, originally a nodule or layer?

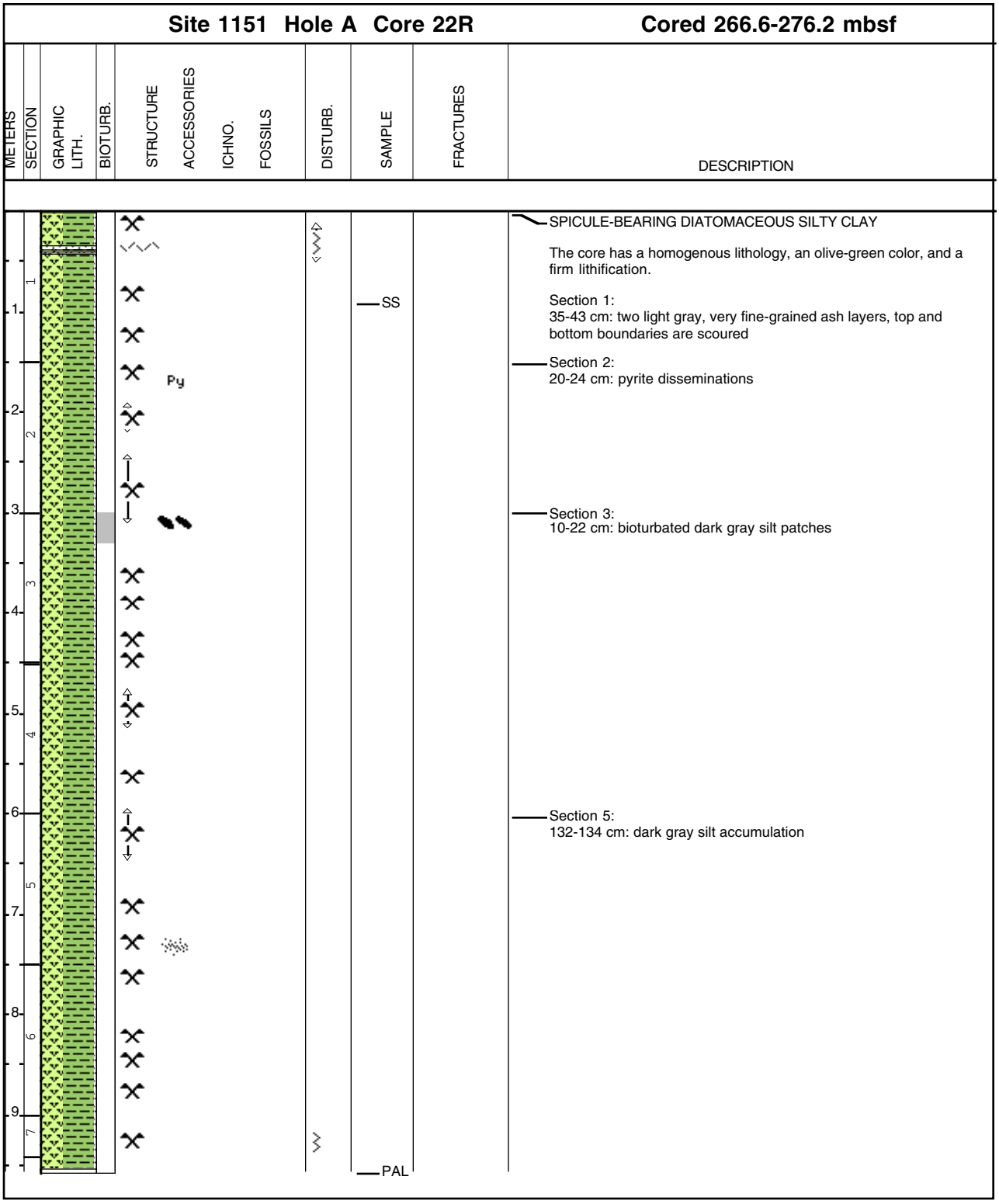
Core Photo


Site 1151 Hole A Core 20R
Cored 247.3-256.9 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
IW
PAL
SPICULE-BEARING DIATOMACEOUS SILTY CLAY
The core has a homogenous lithology, an olive-green color, and a firm lithification.
Section 2:
40-41 cm: grain of pumice, pebble-sized
Section CC:
9 cm: light to dark gray ash patch

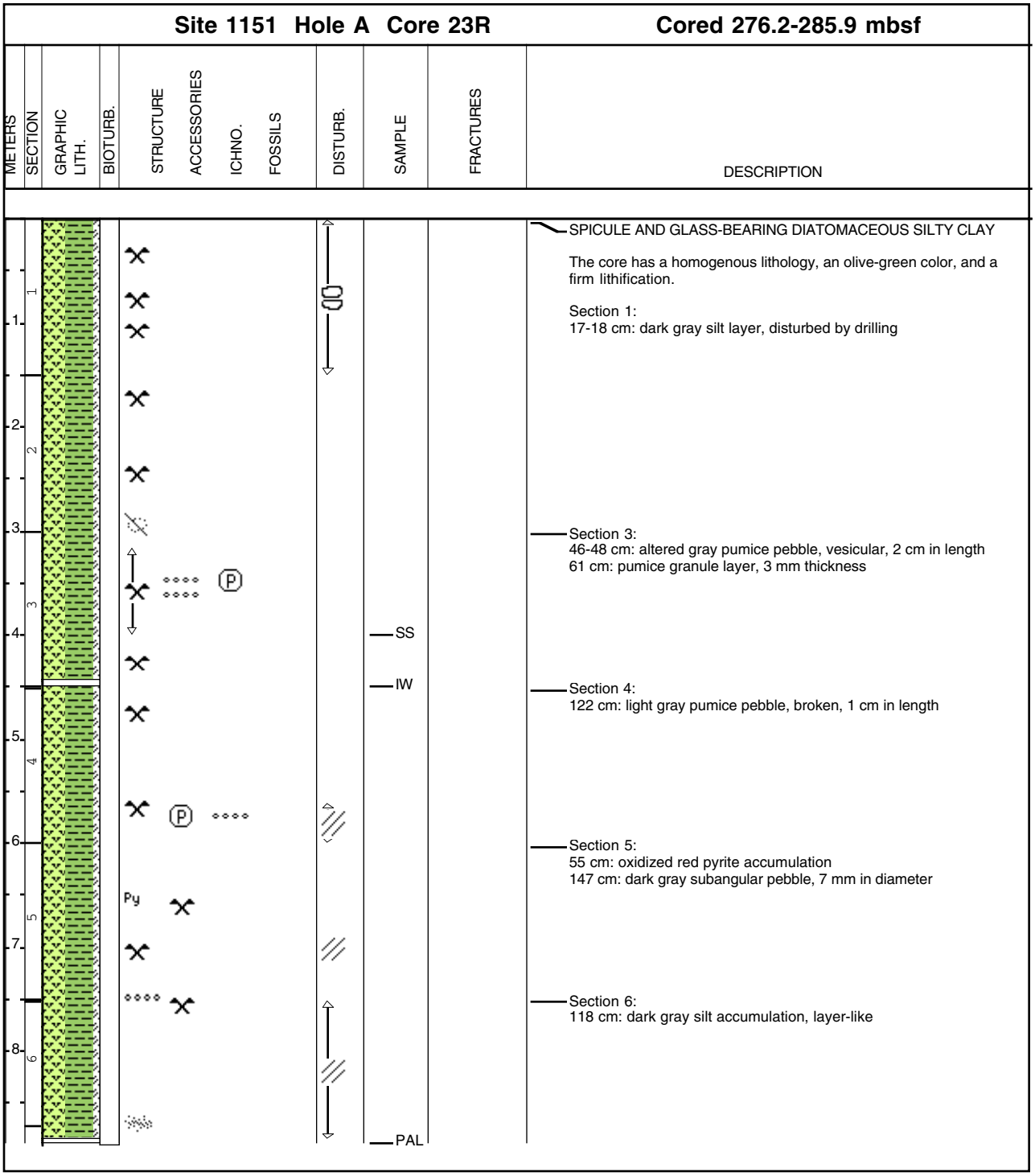
Core Photo


Site 1151 Hole A Core 21R Cored 256.9-266.6 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
PAL
Py
DIATOM AND SPICULE-BEARING CALCAREOUS CLAYEY SILTY CLAY
The core has a homogenous lithology, an olive-green color, and a firm lithification.
Section 1:
99-108 cm: white to greenish-gray, bioturbated, very fine-grained ash layer with a gradational top boundary
119-120 cm: white very fine-grained ash patch
Section 5:
142-147 cm: light gray ash patch with diffuse boundaries
Section 6:
116-119 cm: gray to dark gray fine-grained reworked ash layer with an erosional base and a gradational top boundary
Section 7:
51-54 cm: dary gray silt accumulation
Section cc:
4-5 and 6-7 cm: dark gray silt and sand accumulation

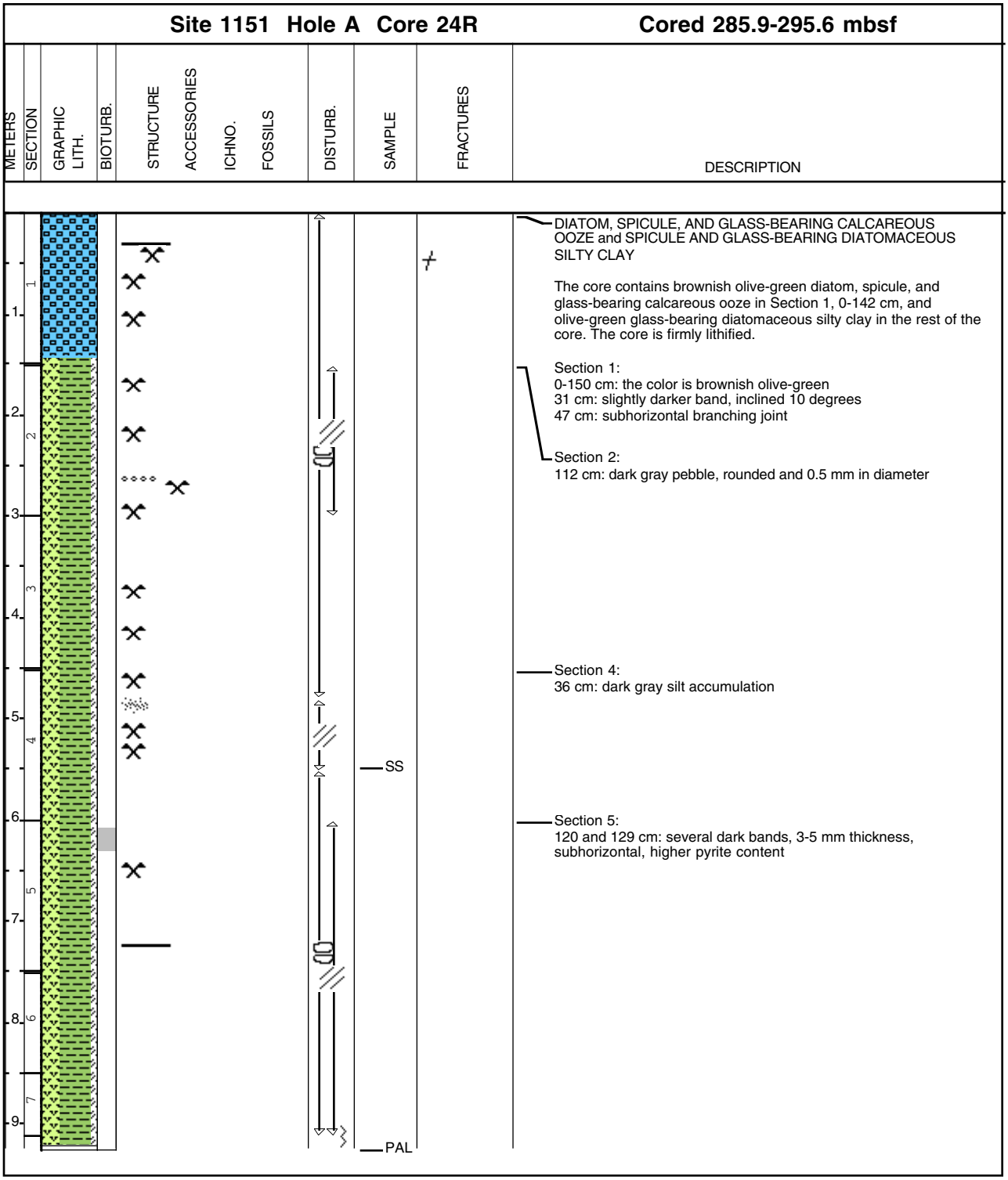
Core Photo


Site 1151 Hole A Core 22R
Cored 266.6-276.2 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
Py
SS
PAL
SPICULE-BEARING DIATOMACEOUS SILTY CLAY
The core has a homogenous lithology, an olive-green color, and a firm lithification.
Section 1:
35-43 cm: two light gray, very fine-grained ash layers, top and bottom boundaries are scoured
Section 2:
20-24 cm: pyrite disseminations
Section 3:
10-22 cm: bioturbated dark gray silt patches
Section 5:
132-134 cm: dark gray silt accumulation

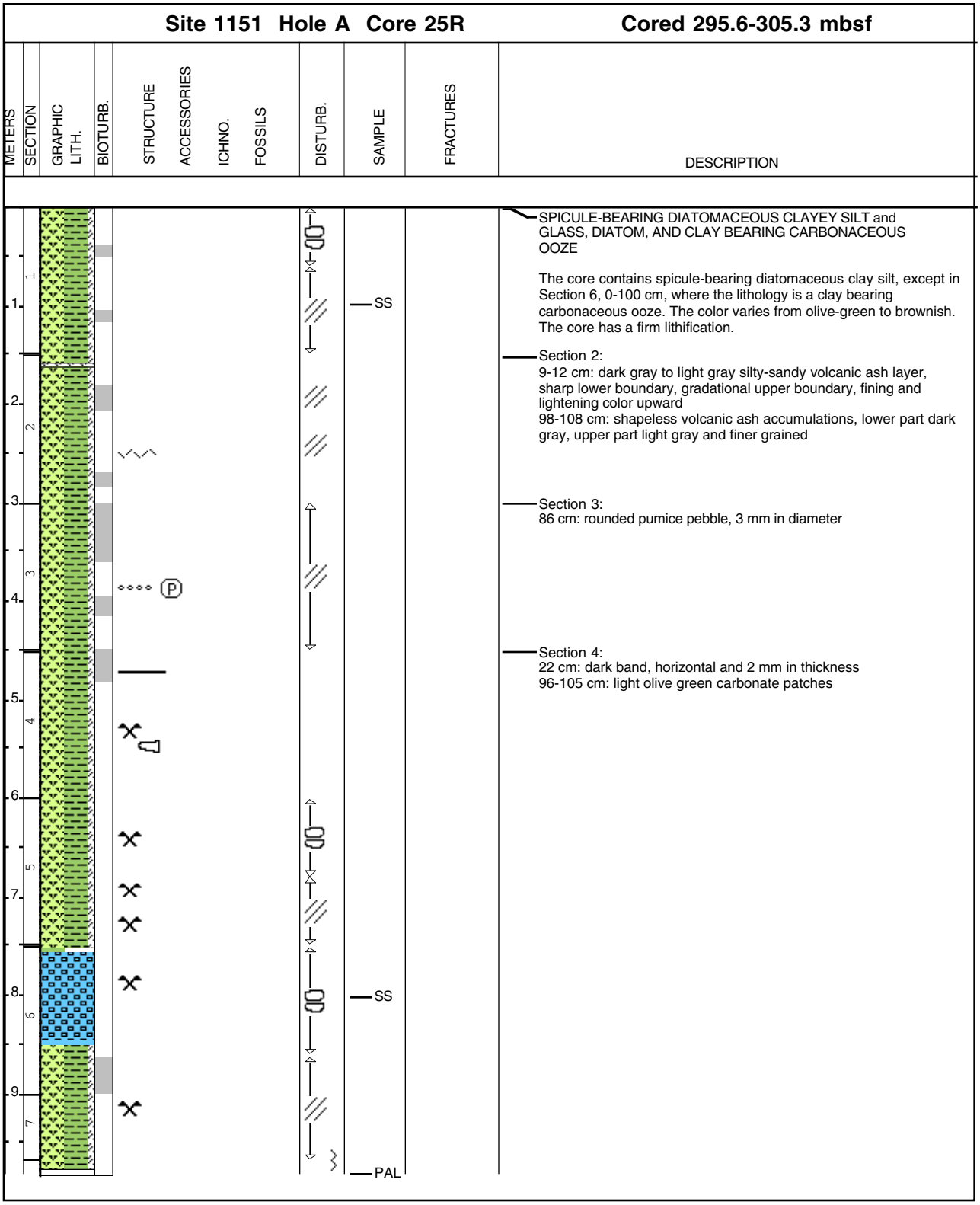
Core Photo


Site 1151 Hole A Core 23R
Cored 276.2-285.9 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SPICULE AND GLASS-BEARING DIATOMACEOUS SILTY CLAY
The core has a homogenous lithology, an olive-green color, and a firm lithification.
Section 1:
17-18 cm: dark gray silt layer, disturbed by drilling
Section 3:
46-48 cm: altered gray pumice pebble, vesicular, 2 cm in length
61 cm: pumice granule layer, 3 mm thickness
SS
IW
Section 4:
122 cm: light gray pumice pebble, broken, 1 cm in length
Section 5:
55 cm: oxidized red pyrite accumulation
147 cm: dark gray subangular pebble, 7 mm in diameter
Py
Section 6:
118 cm: dark gray silt accumulation, layer-like
PAL

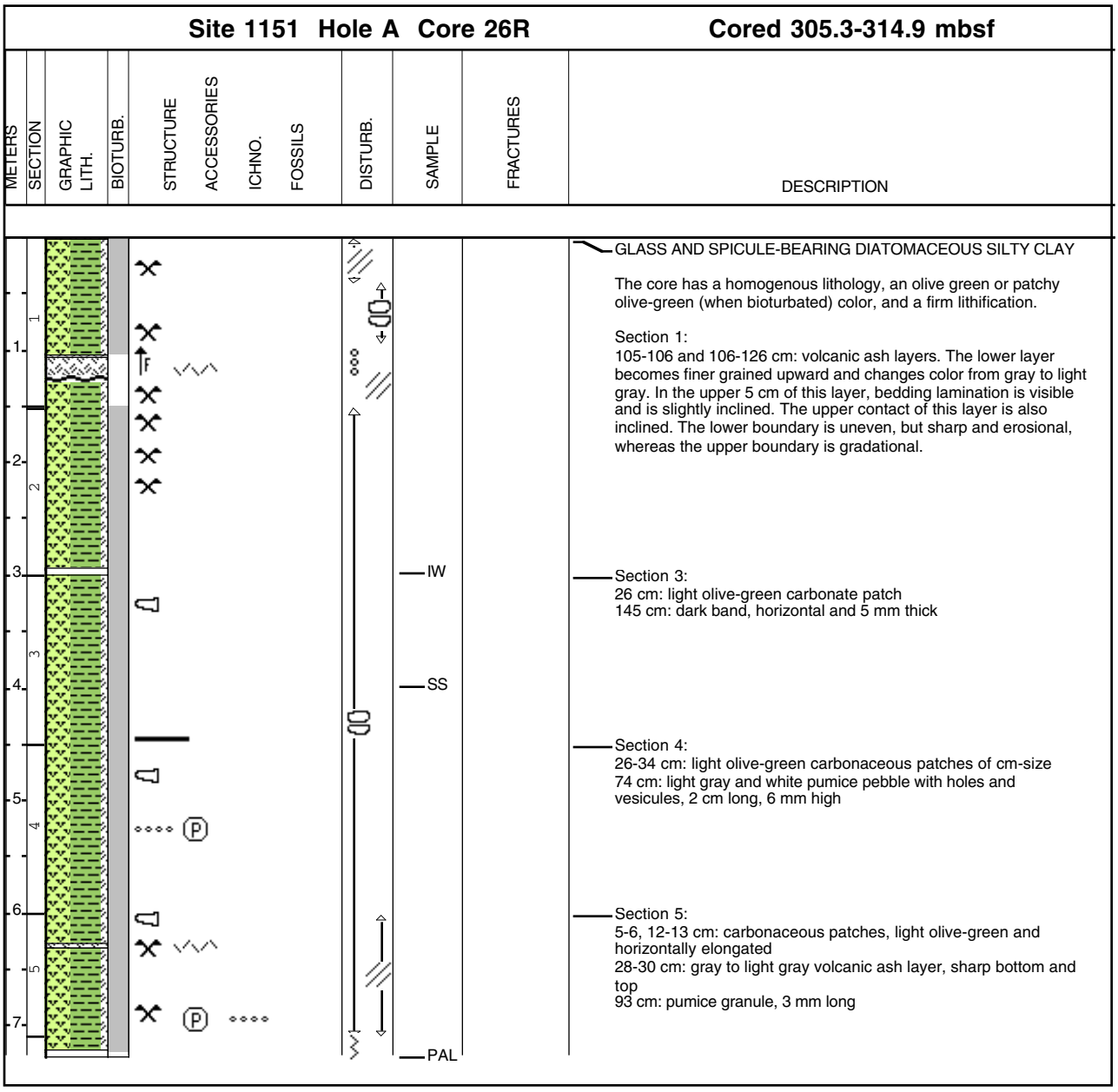
Core Photo


Site 1151 Hole A Core 24R
Cored 285.9-295.6 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
PAL
DIATOM, SPICULE, AND GLASS-BEARING CALCAREOUS OOZE and SPICULE AND GLASS-BEARING DIATOMACEOUS SILTY CLAY
The core contains brownish olive-green diatom, spicule, and glass-bearing calcareous ooze in Section 1, 0-142 cm, and olive-green glass-bearing diatomaceous silty clay in the rest of the core. The core is firmly lithified.
Section 1:
0-150 cm: the color is brownish olive-green
31 cm: slightly darker band, inclined 10 degrees
47 cm: subhorizontal branching joint
Section 2:
112 cm: dark gray pebble, rounded and 0.5 mm in diameter
Section 4:
36 cm: dark gray silt accumulation
Section 5:
120 and 129 cm: several dark bands, 3-5 mm thickness, subhorizontal, higher pyrite content

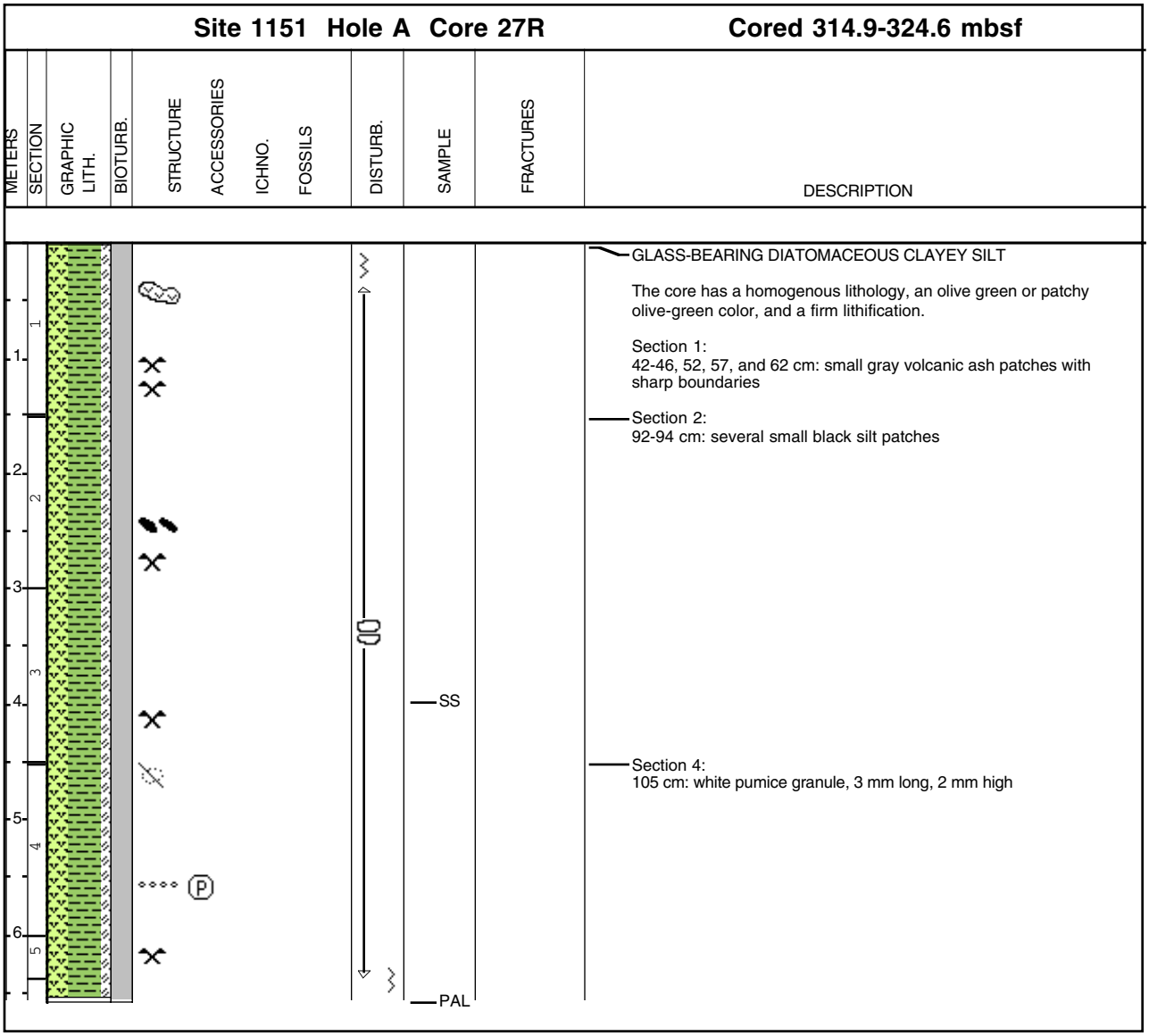
Core Photo


Site 1151 Hole A Core 25R
Cored 295.6-305.3 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
SS
PAL
SPICULE-BEARING DIATOMACEOUS CLAYEY SILT and GLASS, DIATOM, AND CLAY BEARING CARBONACEOUS OOZE
The core contains spicule-bearing diatomaceous clay silt, except in Section 6, 0-100 cm, where the lithology is a clay bearing carbonaceous ooze. The color varies from olive-green to brownish. The core has a firm lithification.
Section 2:
9-12 cm: dark gray to light gray silty-sandy volcanic ash layer, sharp lower boundary, gradational upper boundary, fining and lightening color upward
98-108 cm: shapeless volcanic ash accumulations, lower part dark gray, upper part light gray and finer grained
Section 3:
86 cm: rounded pumice pebble, 3 mm in diameter
Section 4:
22 cm: dark band, horizontal and 2 mm in thickness
96-105 cm: light olive green carbonate patches

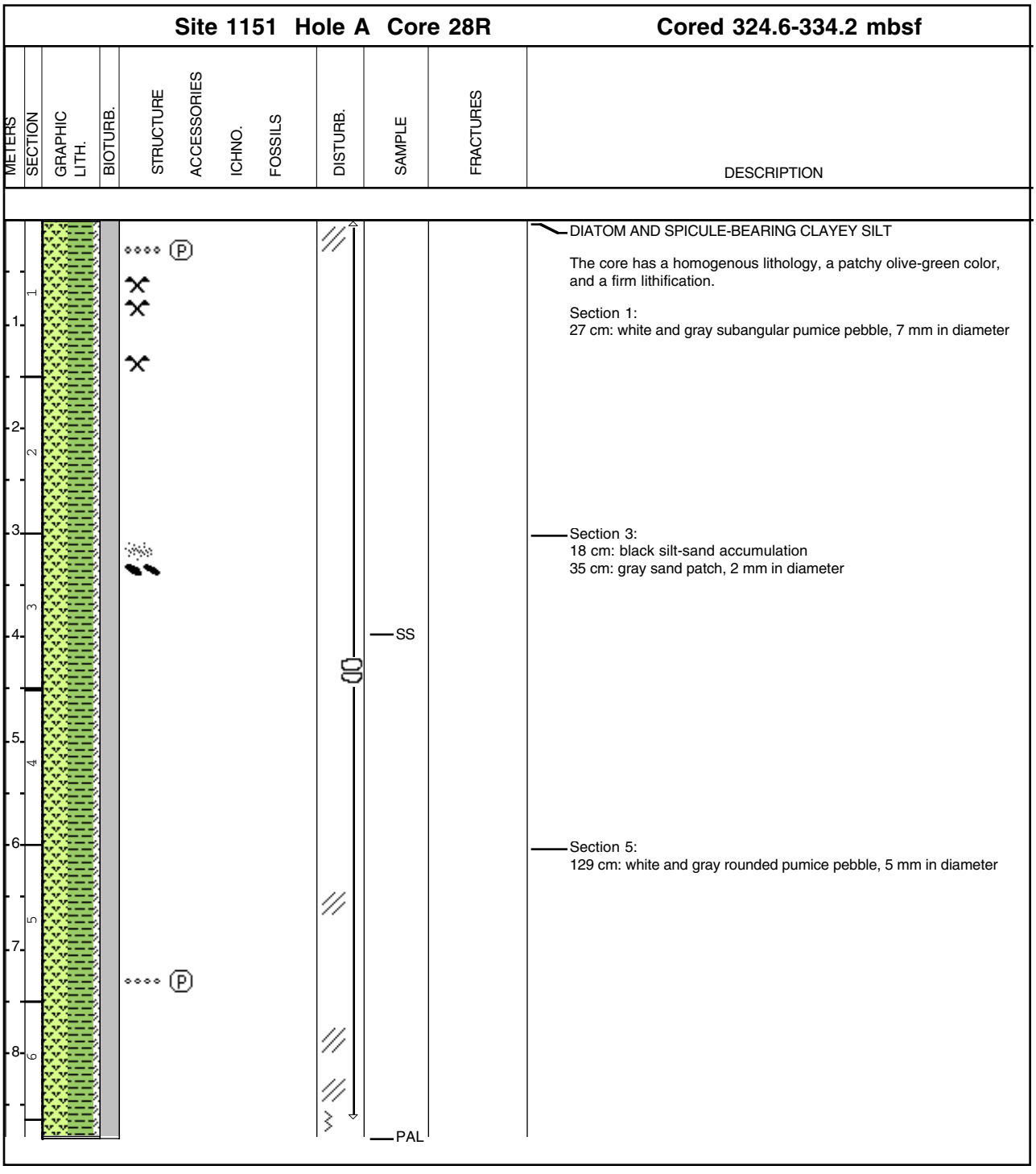
Core Photo


Site 1151 Hole A Core 26R
Cored 305.3-314.9 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
GLASS AND SPICULE-BEARING DIATOMACEOUS SILTY CLAY
The core has a homogenous lithology, an olive green or patchy olive-green (when bioturbated) color, and a firm lithification.
Section 1:
105-106 and 106-126 cm: volcanic ash layers. The lower layer becomes finer grained upward and changes color from gray to light gray. In the upper 5 cm of this layer, bedding lamination is visible and is slightly inclined. The upper contact of this layer is also inclined. The lower boundary is uneven, but sharp and erosional, whereas the upper boundary is gradational.
IW
Section 3:
26 cm: light olive-green carbonate patch
145 cm: dark band, horizontal and 5 mm thick
SS
Section 4:
26-34 cm: light olive-green carbonaceous patches of cm-size
74 cm: light gray and white pumice pebble with holes and vesicules, 2 cm long, 6 mm high
Section 5:
5-6, 12-13 cm: carbonaceous patches, light olive-green and horizontally elongated
28-30 cm: gray to light gray volcanic ash layer, sharp bottom and top
93 cm: pumice granule, 3 mm long
PAL

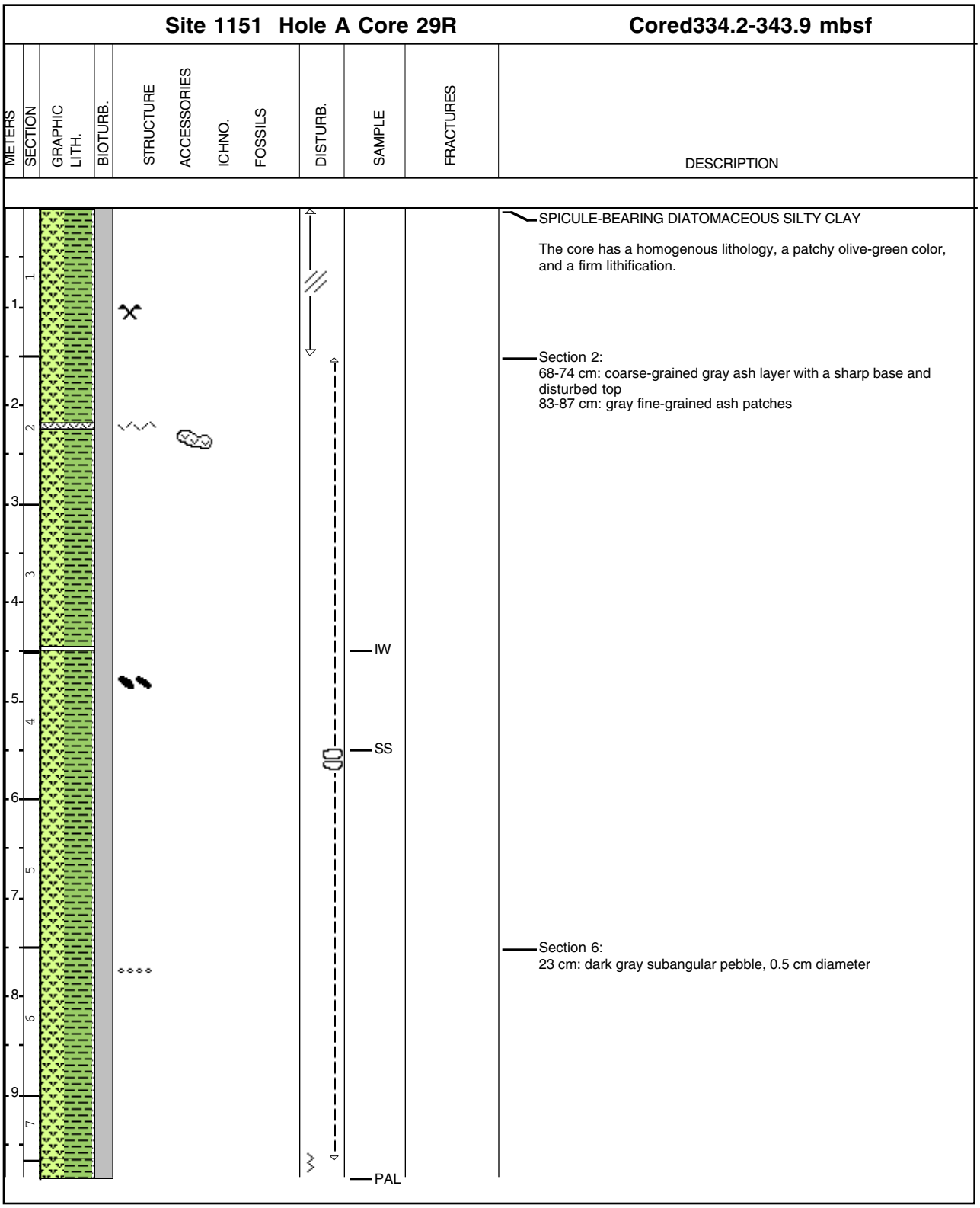
Core Photo


Site 1151 Hole A Core 27R
Cored 314.9-324.6 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
PAL
GLASS-BEARING DIATOMACEOUS CLAYEY SILT
The core has a homogenous lithology, an olive green or patchy olive-green color, and a firm lithification.
Section 1:
42-46, 52, 57, and 62 cm: small gray volcanic ash patches with sharp boundaries
Section 2:
92-94 cm: several small black silt patches
Section 4:
105 cm: white pumice granule, 3 mm long, 2 mm high

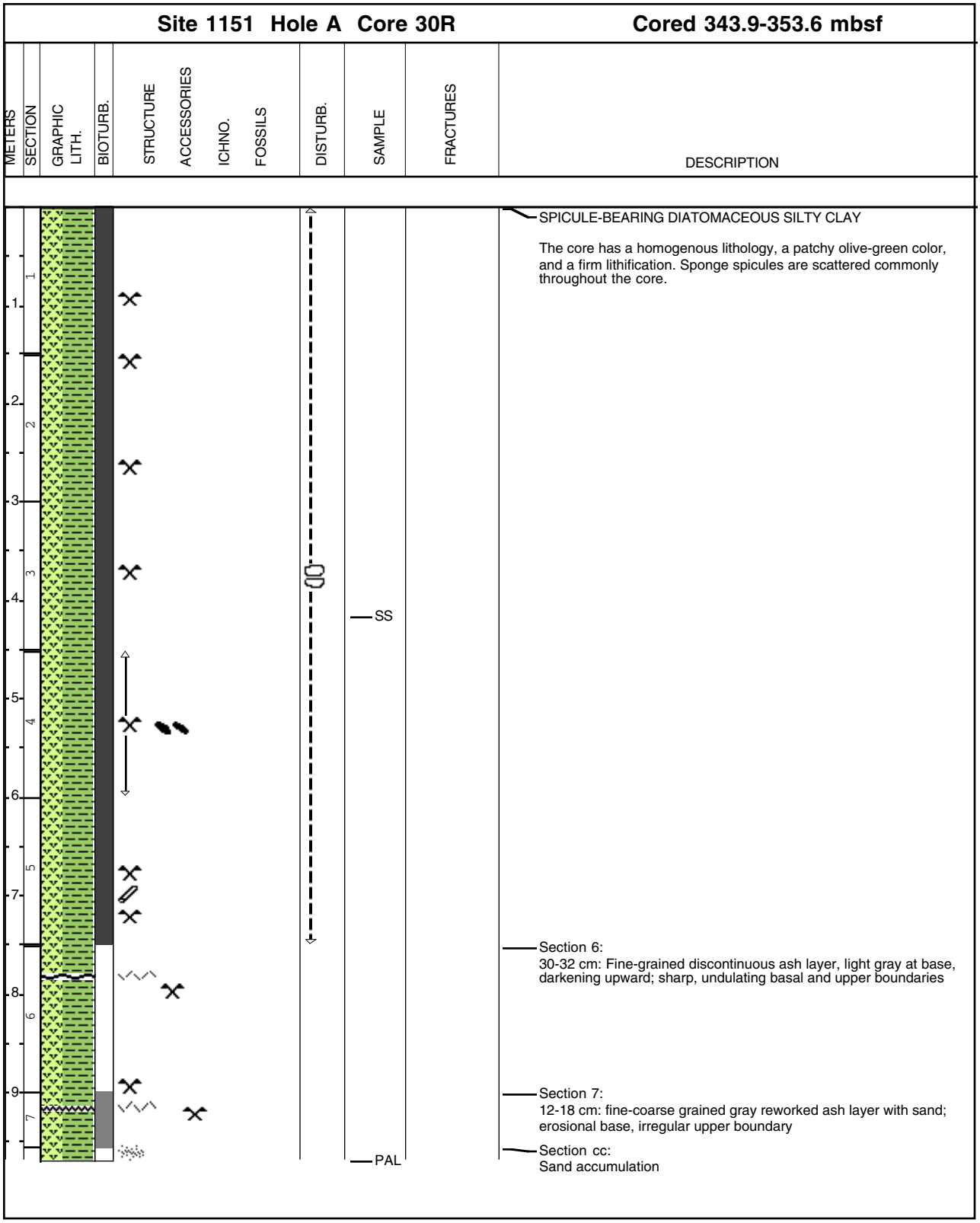
Core Photo


Site 1151 Hole A Core 28R
Cored 324.6-334.2 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
PAL
DIATOM AND SPICULE-BEARING CLAYEY SILT
The core has a homogenous lithology, a patchy olive-green color, and a firm lithification.
Section 1:
27 cm: white and gray subangular pumice pebble, 7 mm in diameter
Section 3:
18 cm: black silt-sand accumulation
35 cm: gray sand patch, 2 mm in diameter
Section 5:
129 cm: white and gray rounded pumice pebble, 5 mm in diameter

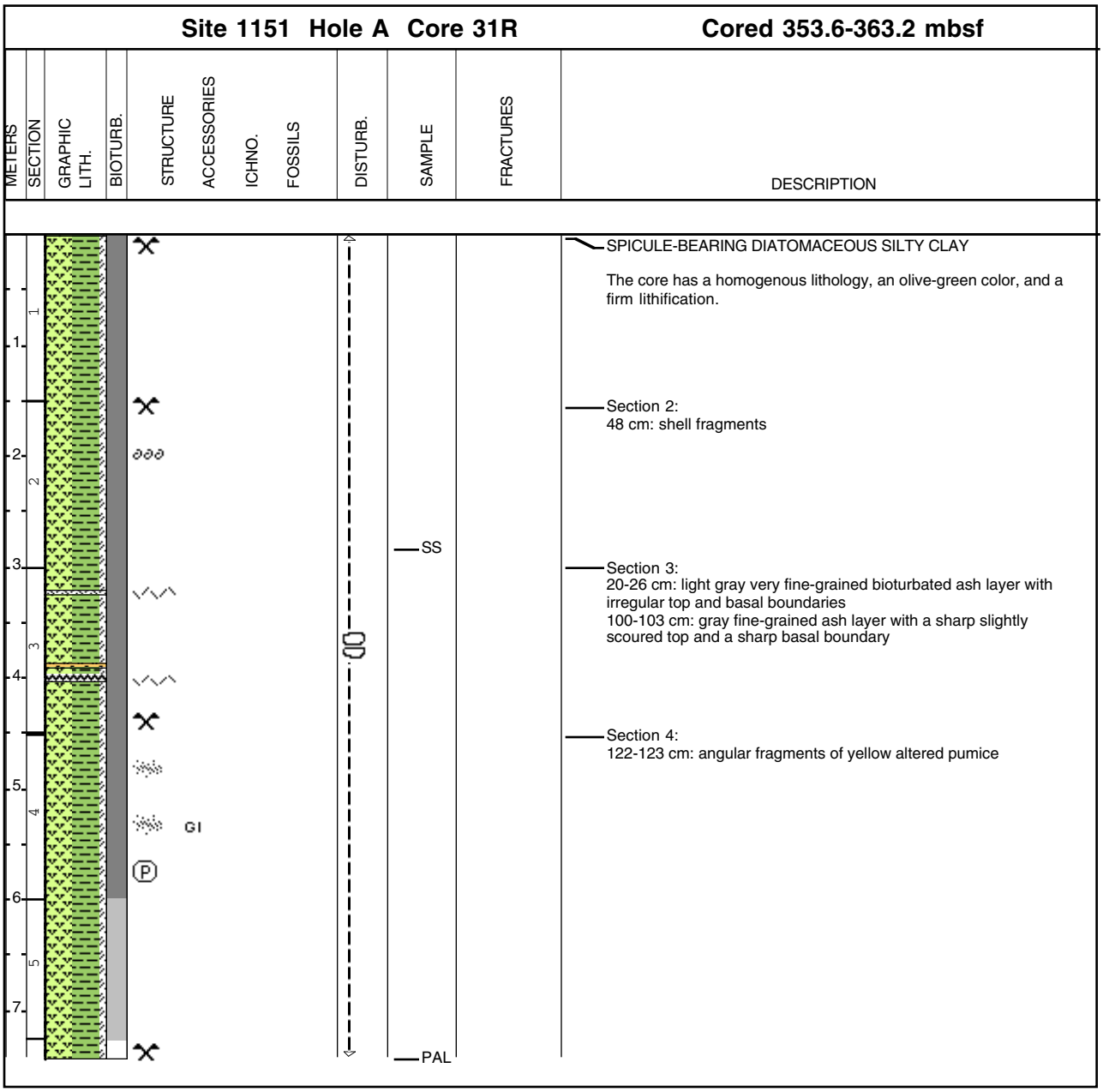
Core Photo


Site 1151 Hole A Core 29R
Cored334.2-343.9 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SPICULE-BEARING DIATOMACEOUS SILTY CLAY
The core has a homogenous lithology, a patchy olive-green color, and a firm lithification.
Section 2:
68-74 cm: coarse-grained gray ash layer with a sharp base and disturbed top
83-87 cm: gray fine-grained ash patches
IW
SS
Section 6:
23 cm: dark gray subangular pebble, 0.5 cm diameter
PAL

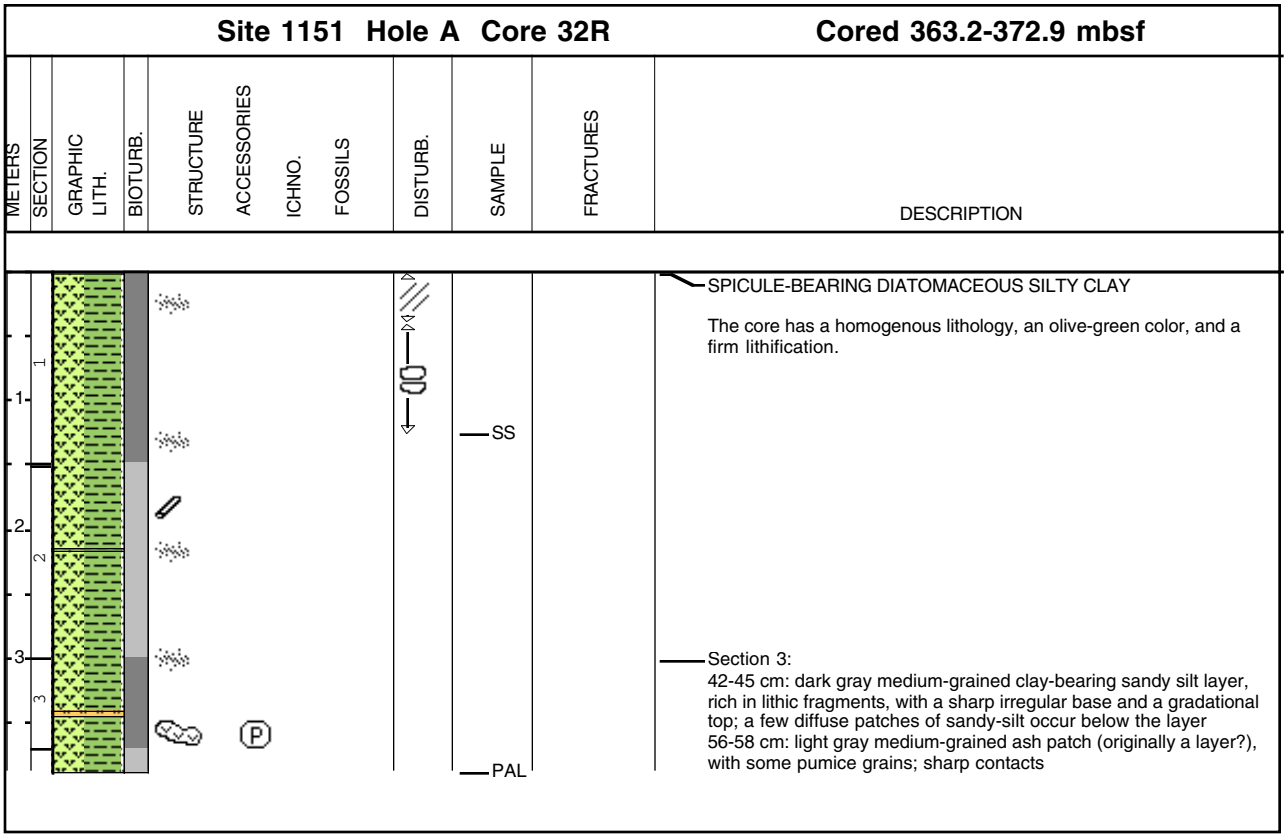
Core Photo


Site 1151 Hole A Core 30R
Cored 343.9-353.6 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
PAL
SPICULE-BEARING DIATOMACEOUS SILTY CLAY
The core has a homogenous lithology, a patchy olive-green color, and a firm lithification. Sponge spicules are scattered commonly throughout the core.
Section 6:
30-32 cm: Fine-grained discontinuous ash layer, light gray at base, darkening upward; sharp, undulating basal and upper boundaries
Section 7:
12-18 cm: fine-coarse grained gray reworked ash layer with sand; erosional base, irregular upper boundary
Section cc:
Sand accumulation

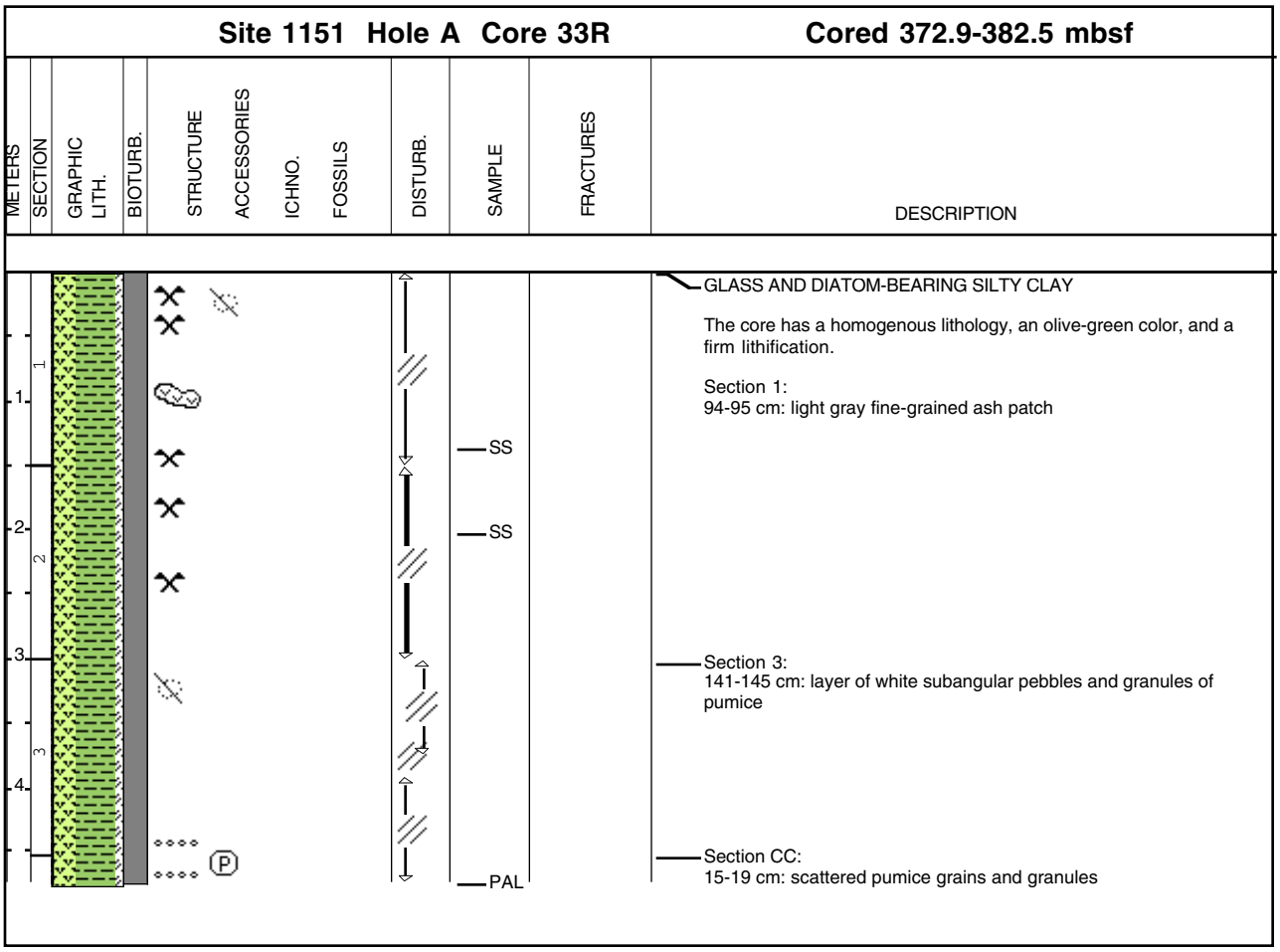
Core Photo


Site 1151 Hole A Core 31R
Cored 353.6-363.2 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
GI
SS
PAL
SPICULE-BEARING DIATOMACEOUS SILTY CLAY
The core has a homogenous lithology, an olive-green color, and a firm lithification.
Section 2:
48 cm: shell fragments
Section 3:
20-26 cm: light gray very fine-grained bioturbated ash layer with irregular top and basal boundaries
100-103 cm: gray fine-grained ash layer with a sharp slightly scoured top and a sharp basal boundary
Section 4:
122-123 cm: angular fragments of yellow altered pumice

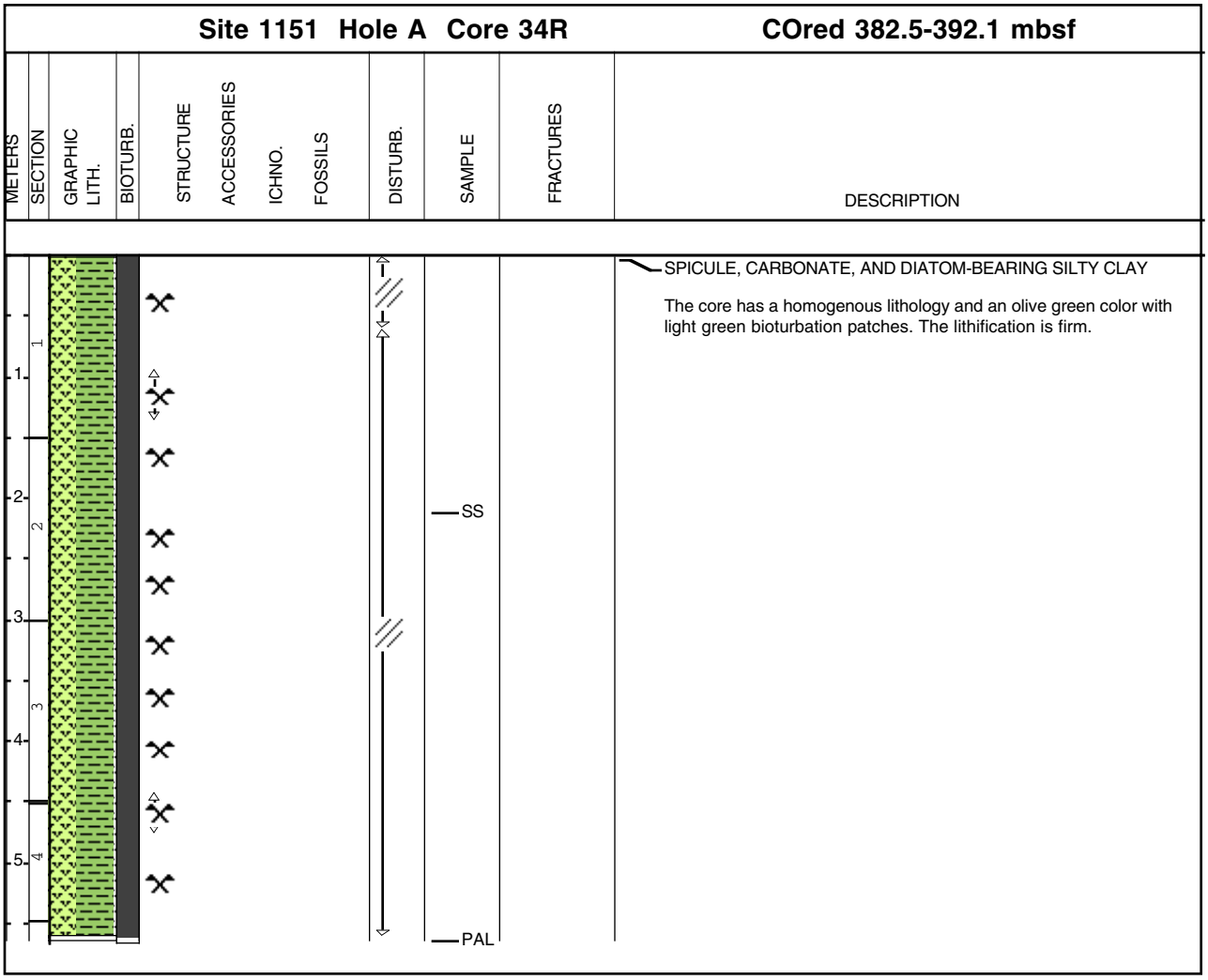
Core Photo


Site 1151 Hole A Core 32R
Cored 363.2-372.9 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
PAL
SPICULE-BEARING DIATOMACEOUS SILTY CLAY
The core has a homogenous lithology, an olive-green color, and a firm lithification.
Section 3:
42-45 cm: dark gray medium-grained clay-bearing sandy silt layer, rich in lithic fragments, with a sharp irregular base and a gradational top; a few diffuse patches of sandy-silt occur below the layer
56-58 cm: light gray medium-grained ash patch (originally a layer?), with some pumice grains; sharp contacts

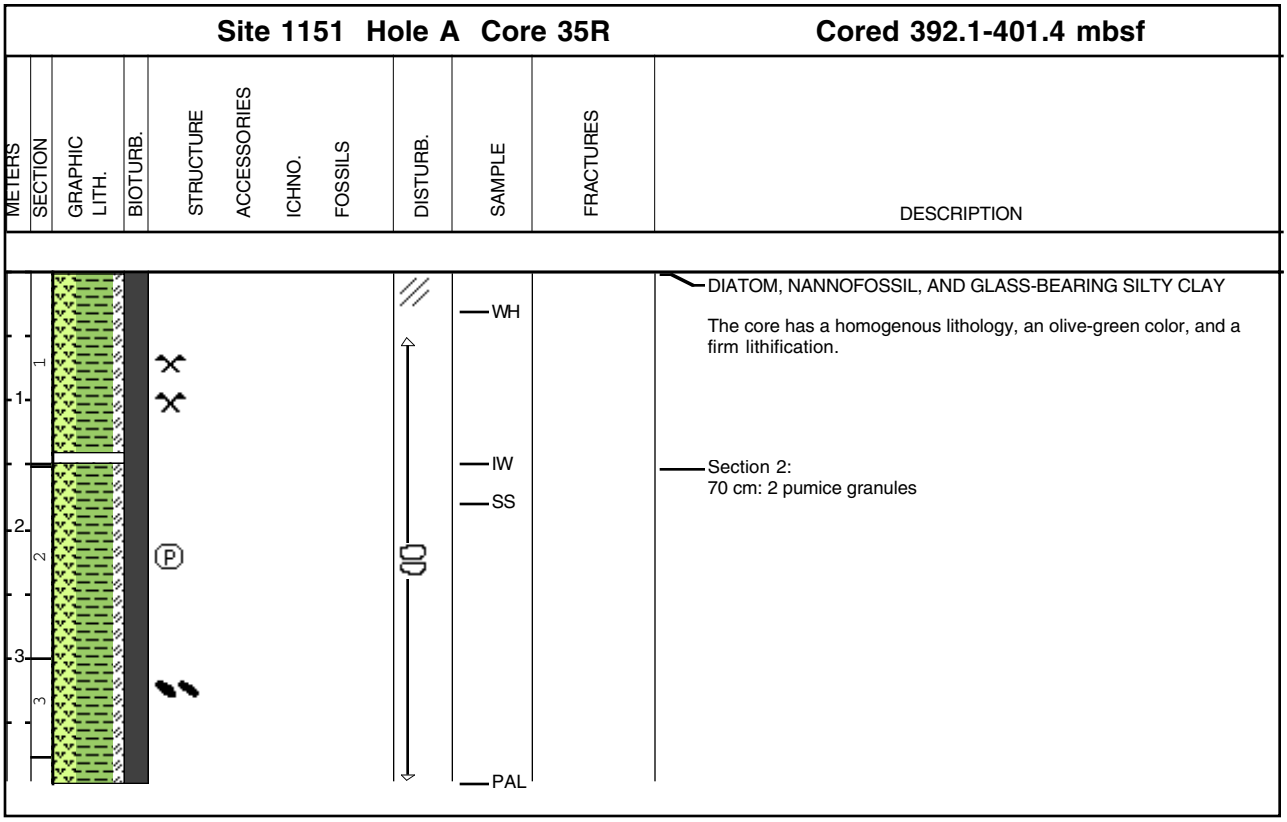
Core Photo


Site 1151 Hole A Core 33R
Cored 372.9-382.5 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
SS
PAL
GLASS AND DIATOM-BEARING SILTY CLAY
The core has a homogenous lithology, an olive-green color, and a firm lithification.
Section 1:
94-95 cm: light gray fine-grained ash patch
Section 3:
141-145 cm: layer of white subangular pebbles and granules of pumice
Section CC:
15-19 cm: scattered pumice grains and granules

Core Photo


Site 1151 Hole A Core 34R
COred 382.5-392.1 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
PAL
SPICULE, CARBONATE, AND DIATOM-BEARING SILTY CLAY
The core has a homogenous lithology and an olive green color with light green bioturbation patches. The lithification is firm.

Core Photo


Site 1151 Hole A Core 35R
Cored 392.1-401.4 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
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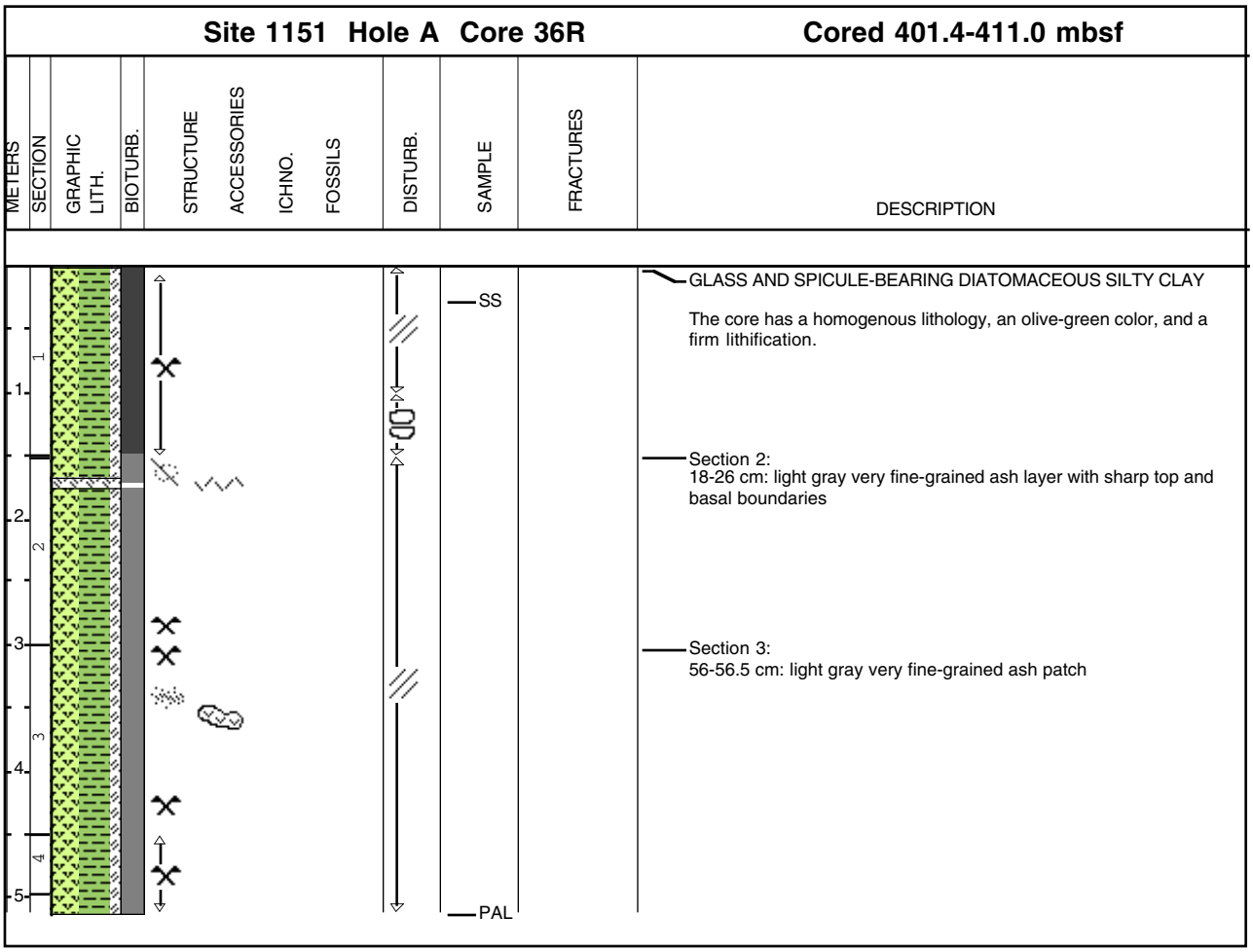
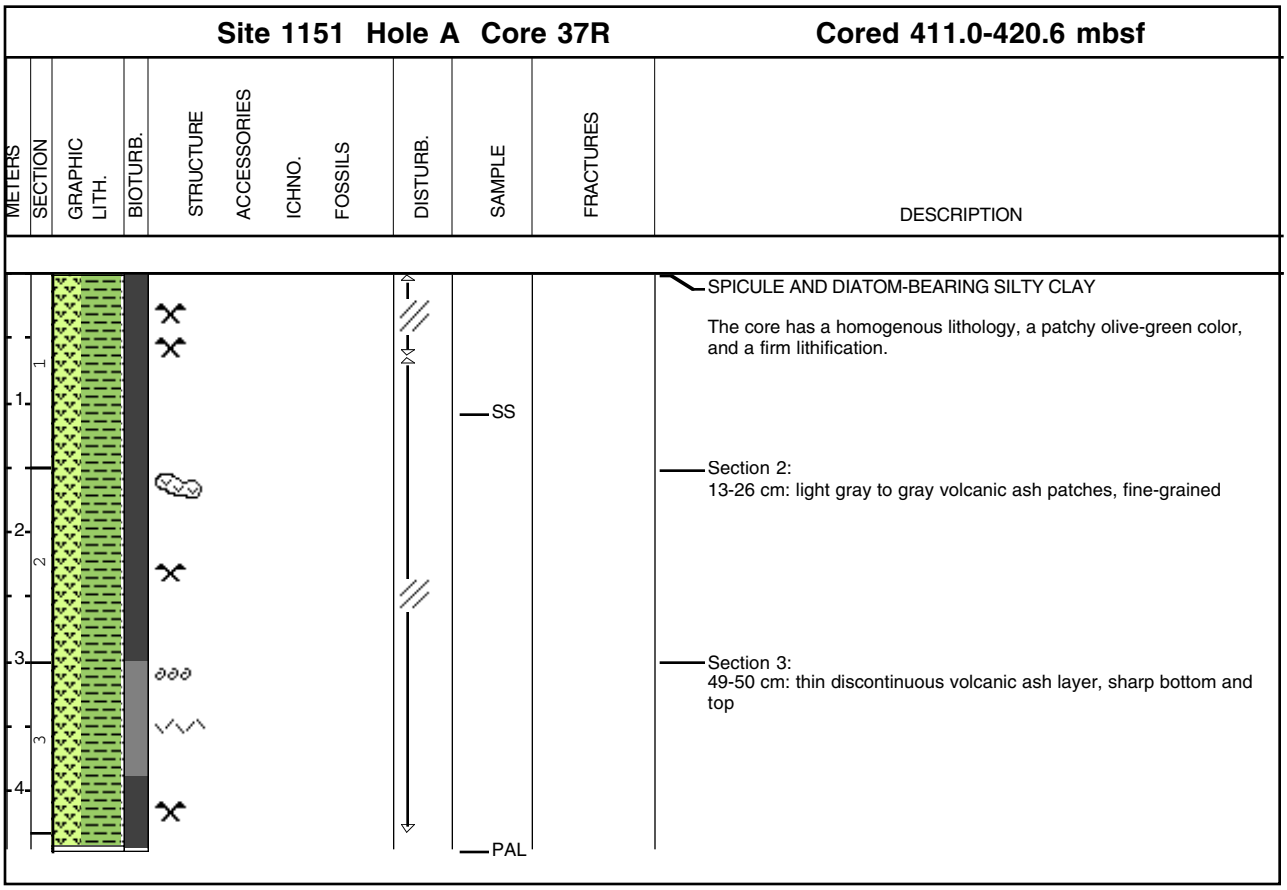
IW
SS
PAL
DIATOM, NANNOFOSSIL, AND GLASS-BEARING SILTY CLAY
The core has a homogenous lithology, an olive-green color, and a firm lithification.
Section 2:
70 cm: 2 pumice granules

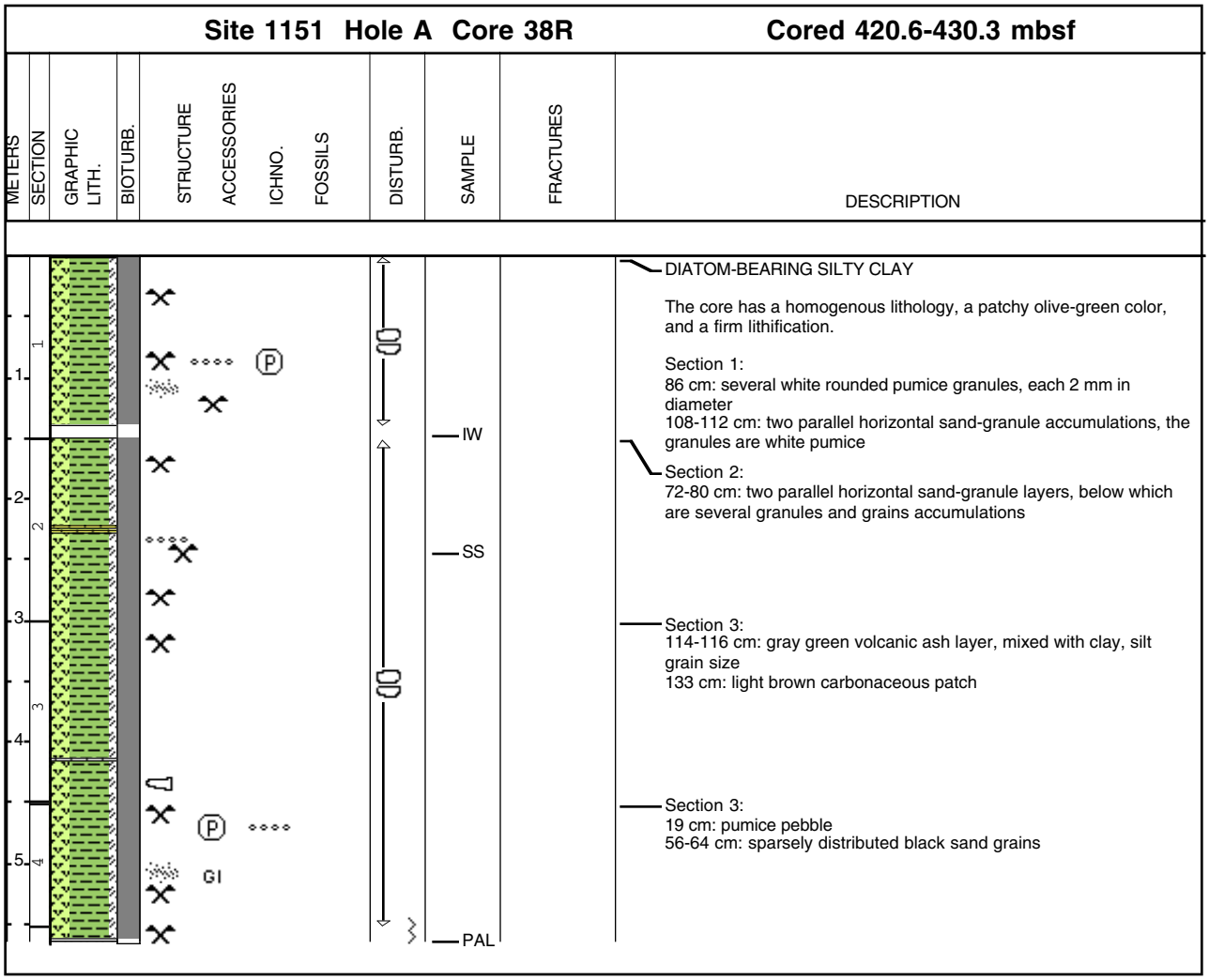
Core Photo


Site 1151 Hole A Core 36R
Cored 401.4-411.0 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
PAL
GLASS AND SPICULE-BEARING DIATOMACEOUS SILTY CLAY
The core has a homogenous lithology, an olive-green color, and a firm lithification.
Section 2:
18-26 cm: light gray very fine-grained ash layer with sharp top and basal boundaries
Section 3:
56-56.5 cm: light gray very fine-grained ash patch

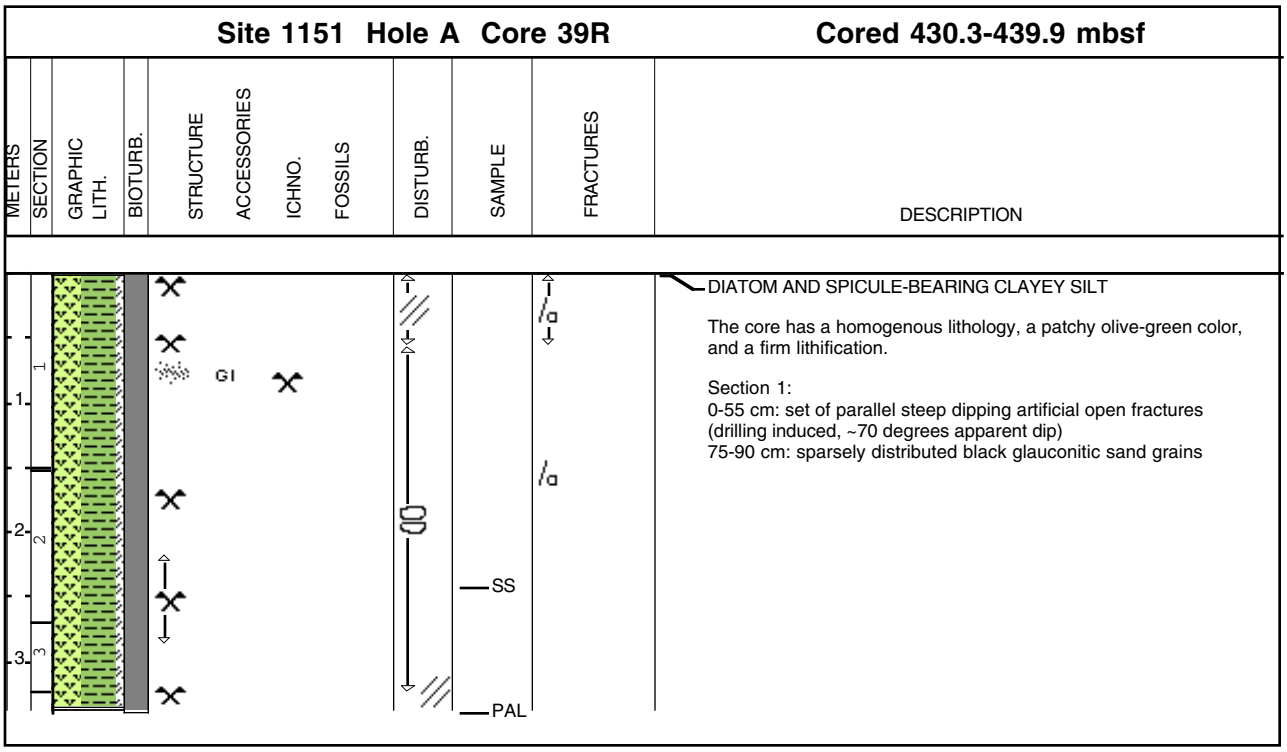
Core Photo


Site 1151 Hole A Core 37R
Cored 411.0-420.6 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
PAL
SPICULE AND DIATOM-BEARING SILTY CLAY
The core has a homogenous lithology, a patchy olive-green color, and a firm lithification.
Section 2:
13-26 cm: light gray to gray volcanic ash patches, fine-grained
Section 3:
49-50 cm: thin discontinuous volcanic ash layer, sharp bottom and top

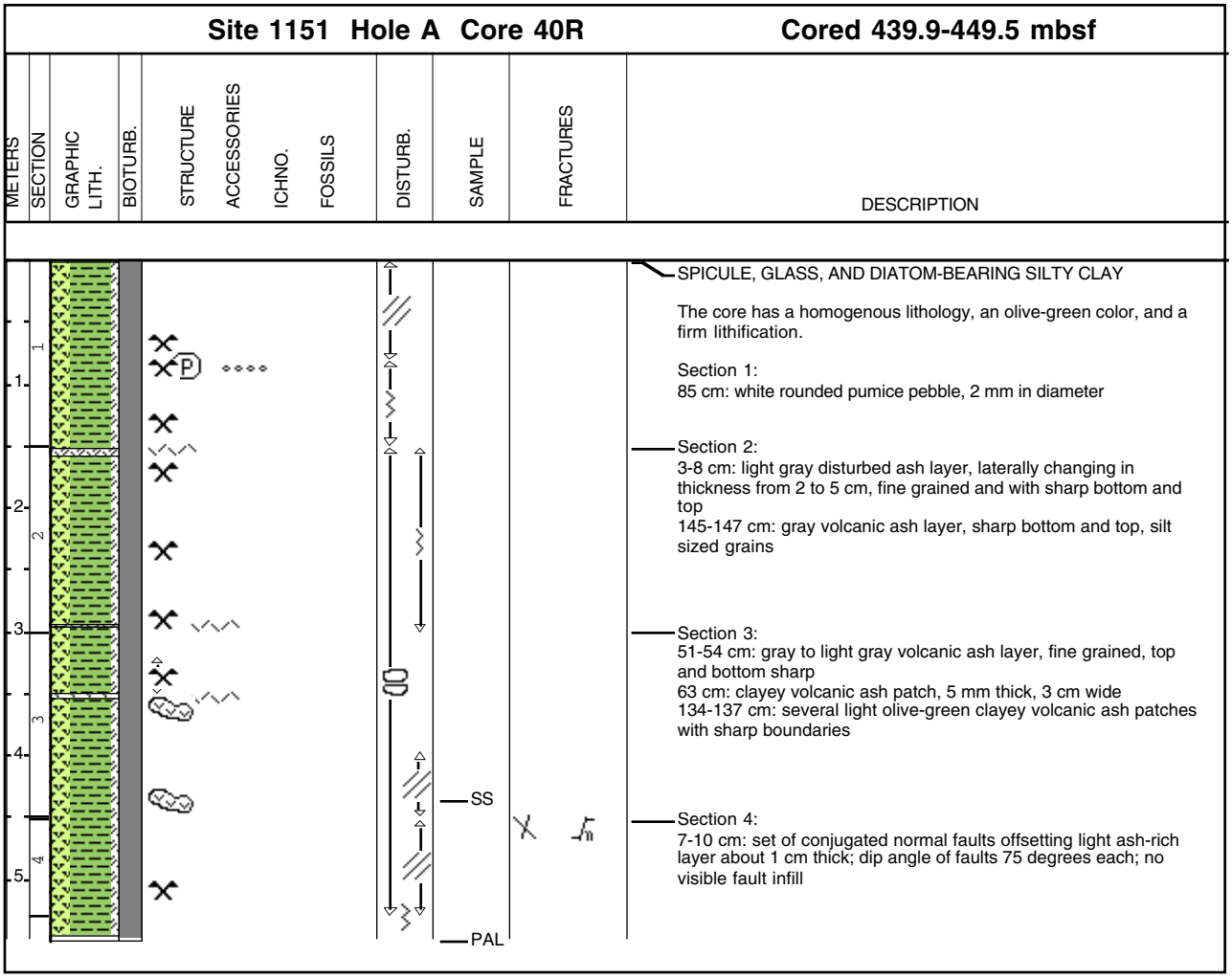
Core Photo


Site 1151 Hole A Core 38R
Cored 420.6-430.3 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
IW
SS
PAL
GI
DIATOM-BEARING SILTY CLAY
The core has a homogenous lithology, a patchy olive-green color, and a firm lithification.
Section 1:
86 cm: several white rounded pumice granules, each 2 mm in diameter
108-112 cm: two parallel horizontal sand-granule accumulations, the granules are white pumice
Section 2:
72-80 cm: two parallel horizontal sand-granule layers, below which are several granules and grains accumulations
Section 3:
114-116 cm: gray green volcanic ash layer, mixed with clay, silt grain size
133 cm: light brown carbonaceous patch
Section 3:
19 cm: pumice pebble
56-64 cm: sparsely distributed black sand grains

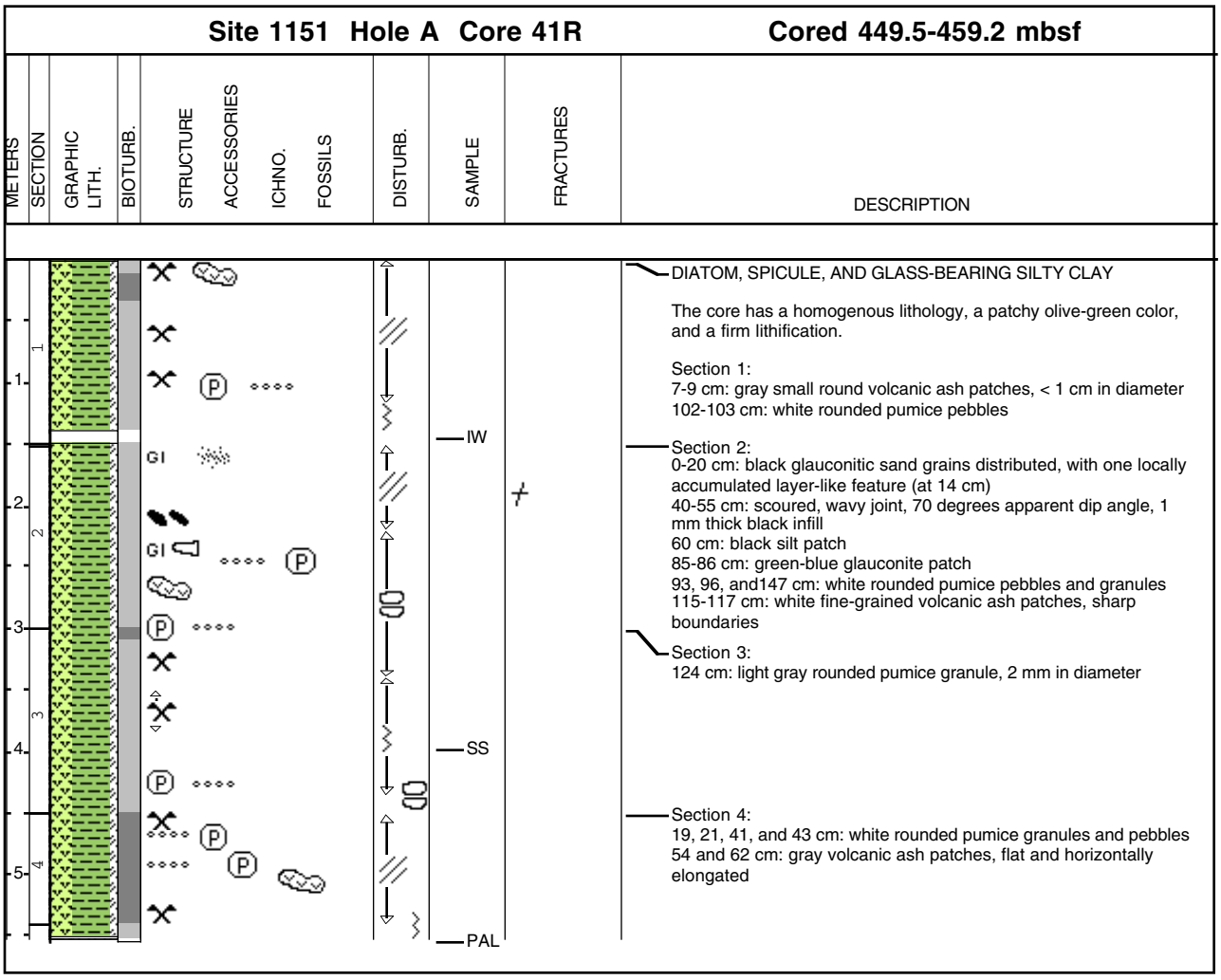
Core Photo


Site 1151 Hole A Core 39R
Cored 430.3-439.9 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
GI
SS
PAL
DIATOM AND SPICULE-BEARING CLAYEY SILT
The core has a homogenous lithology, a patchy olive-green color, and a firm lithification.
Section 1:
0-55 cm: set of parallel steep dipping artificial open fractures (drilling induced, ~70 degrees apparent dip)
75-90 cm: sparsely distributed black glauconitic sand grains

Core Photo


Site 1151 Hole A Core 40R
Cored 439.9-449.5 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
PAL
SPICULE, GLASS, AND DIATOM-BEARING SILTY CLAY
The core has a homogenous lithology, an olive-green color, and a firm lithification.
Section 1:
85 cm: white rounded pumice pebble, 2 mm in diameter
Section 2:
3-8 cm: light gray disturbed ash layer, laterally changing in thickness from 2 to 5 cm, fine grained and with sharp bottom and top
145-147 cm: gray volcanic ash layer, sharp bottom and top, silt sized grains
Section 3:
51-54 cm: gray to light gray volcanic ash layer, fine grained, top and bottom sharp
63 cm: clayey volcanic ash patch, 5 mm thick, 3 cm wide
134-137 cm: several light olive-green clayey volcanic ash patches with sharp boundaries
Section 4:
7-10 cm: set of conjugated normal faults offsetting light ash-rich layer about 1 cm thick; dip angle of faults 75 degrees each; no visible fault infill

Core Photo


Site 1151 Hole A Core 41R
Cored 449.5-459.2 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
GI
GI
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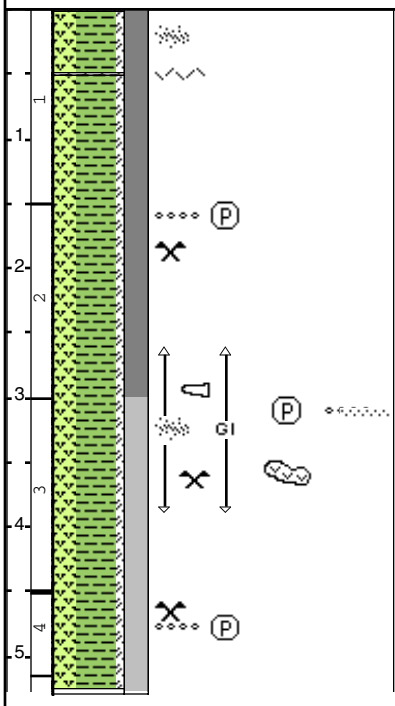
PAL
DIATOM, SPICULE, AND GLASS-BEARING SILTY CLAY
The core has a homogenous lithology, a patchy olive-green color, and a firm lithification.
Section 1:
7-9 cm: gray small round volcanic ash patches, < 1 cm in diameter
102-103 cm: white rounded pumice pebbles
Section 2:
0-20 cm: black glauconitic sand grains distributed, with one locally accumulated layer-like feature (at 14 cm)
40-55 cm: scoured, wavy joint, 70 degrees apparent dip angle, 1 mm thick black infill
60 cm: black silt patch
85-86 cm: green-blue glauconite patch
93, 96, and147 cm: white rounded pumice pebbles and granules
115-117 cm: white fine-grained volcanic ash patches, sharp boundaries
Section 3:
124 cm: light gray rounded pumice granule, 2 mm in diameter
Section 4:
19, 21, 41, and 43 cm: white rounded pumice granules and pebbles
54 and 62 cm: gray volcanic ash patches, flat and horizontally elongated

Core Photo

Site 1151 Hole A Core 42R **Cored 459.2-468.8 mbsf**



DESCRIPTION

DIATOM AND SPICULE-BEARING SILTY CLAY

The core has a homogenous lithology, a patchy olive-green color, and a firm lithification.

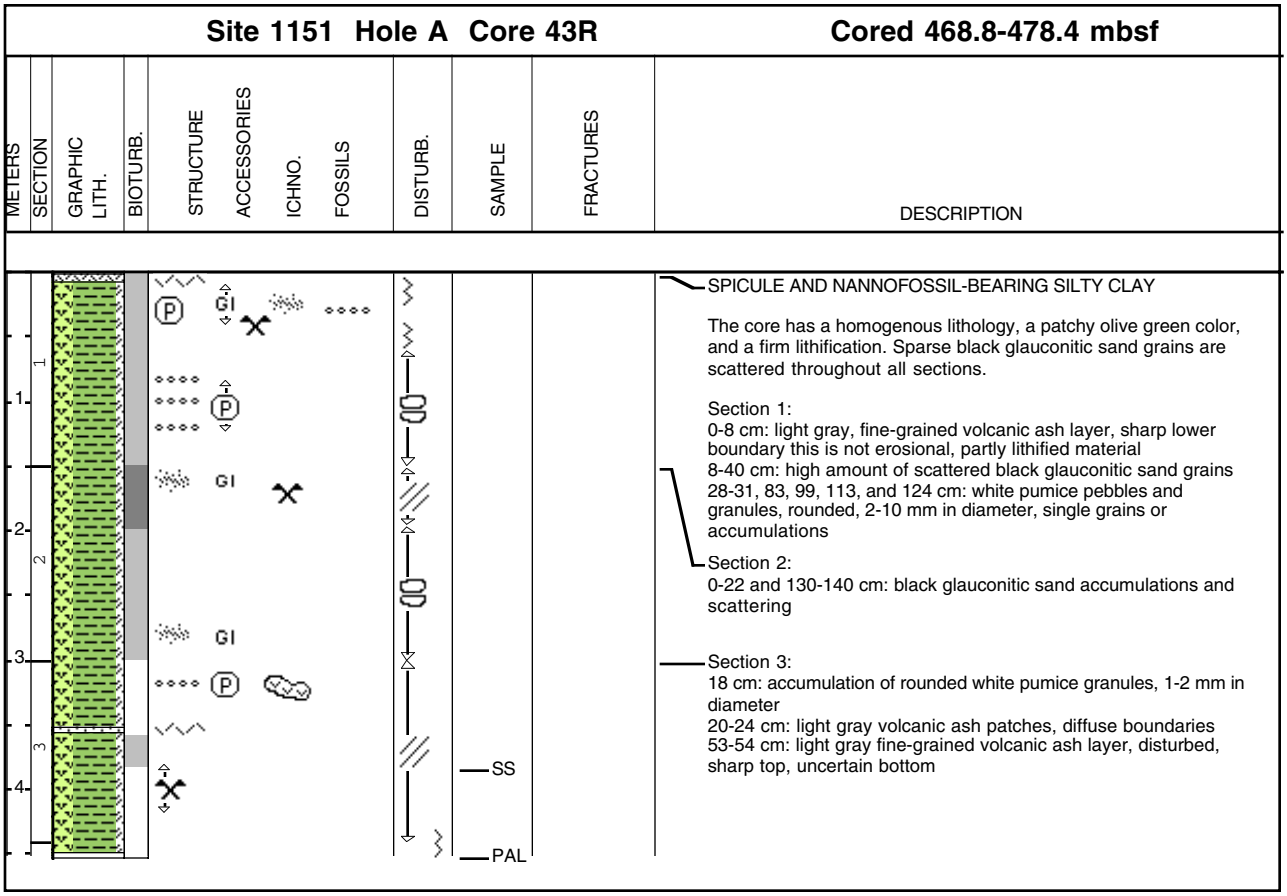
Section 1:
0-50 cm: artificial open fractures; at 19 cm there is a steep dipping fault plane with slickenside striae that indicate dip slip motion; at 40 cm there is an artificial open fracture with horizontal striae on a steep dipping plane, indicating strike slip movement
20 cm: scoured black sand-silt accumulation
50-51 cm: washed out volcanic ash layer, with a few remaining white sand-sized grains

Section 2:
7 cm: white pumice granule, subrounded, 2 mm in diameter
100-150 cm: black scattered glauconitic sand grains
144 cm: bluish green glauconite patches, 2 mm in diameter each

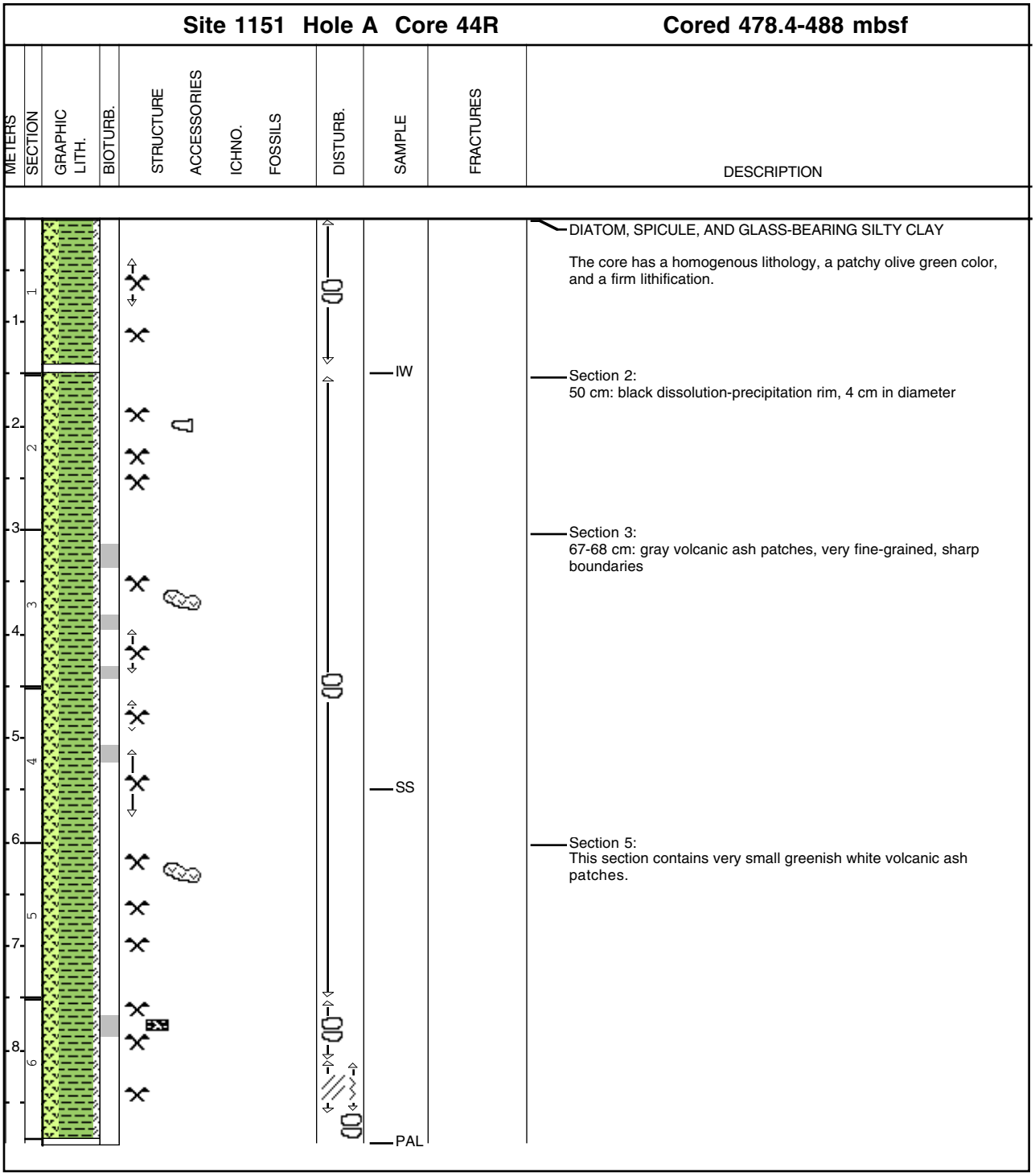
Section 3:
0-90 cm: black glauconitic sand grains occur sparsely
8-9 cm: sand and pumice granules layer, white and gray
57-58 cm: light gray small volcanic ash patches, sharp boundaries, < 3 mm in diameter
60 cm: artificial fracture with horizontal slickenside striae on the fault plane

Section 4:
26 cm: oval shaped pumice pebble, 1.5 cm long, rounded edges

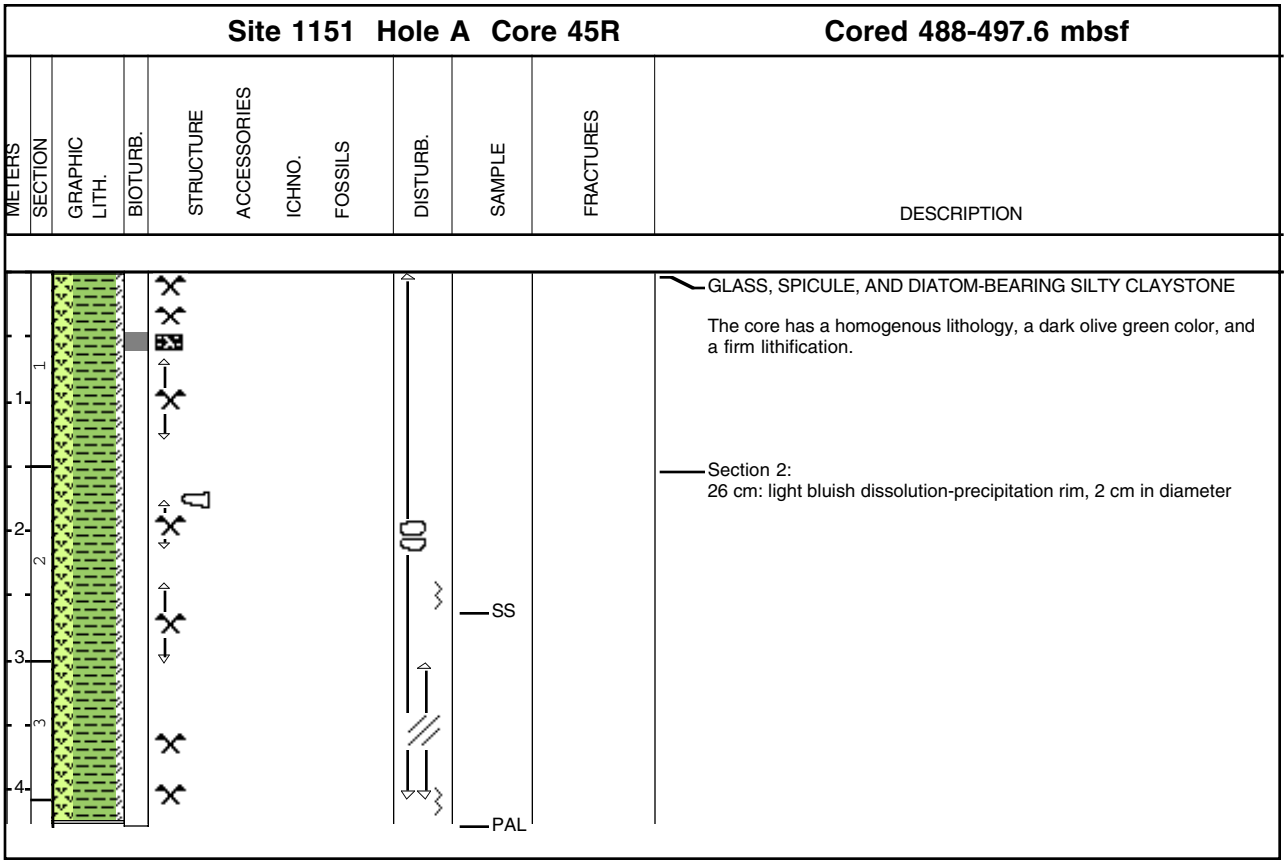
Core Photo


Site 1151 Hole A Core 43R
Cored 468.8-478.4 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
PAL
SPICULE AND NANNOFOSSIL-BEARING SILTY CLAY
The core has a homogenous lithology, a patchy olive green color, and a firm lithification. Sparse black glauconitic sand grains are scattered throughout all sections.
Section 1:
0-8 cm: light gray, fine-grained volcanic ash layer, sharp lower boundary this is not erosional, partly lithified material
8-40 cm: high amount of scattered black glauconitic sand grains
28-31, 83, 99, 113, and 124 cm: white pumice pebbles and granules, rounded, 2-10 mm in diameter, single grains or accumulations
Section 2:
0-22 and 130-140 cm: black glauconitic sand accumulations and scattering
Section 3:
18 cm: accumulation of rounded white pumice granules, 1-2 mm in diameter
20-24 cm: light gray volcanic ash patches, diffuse boundaries
53-54 cm: light gray fine-grained volcanic ash layer, disturbed, sharp top, uncertain bottom

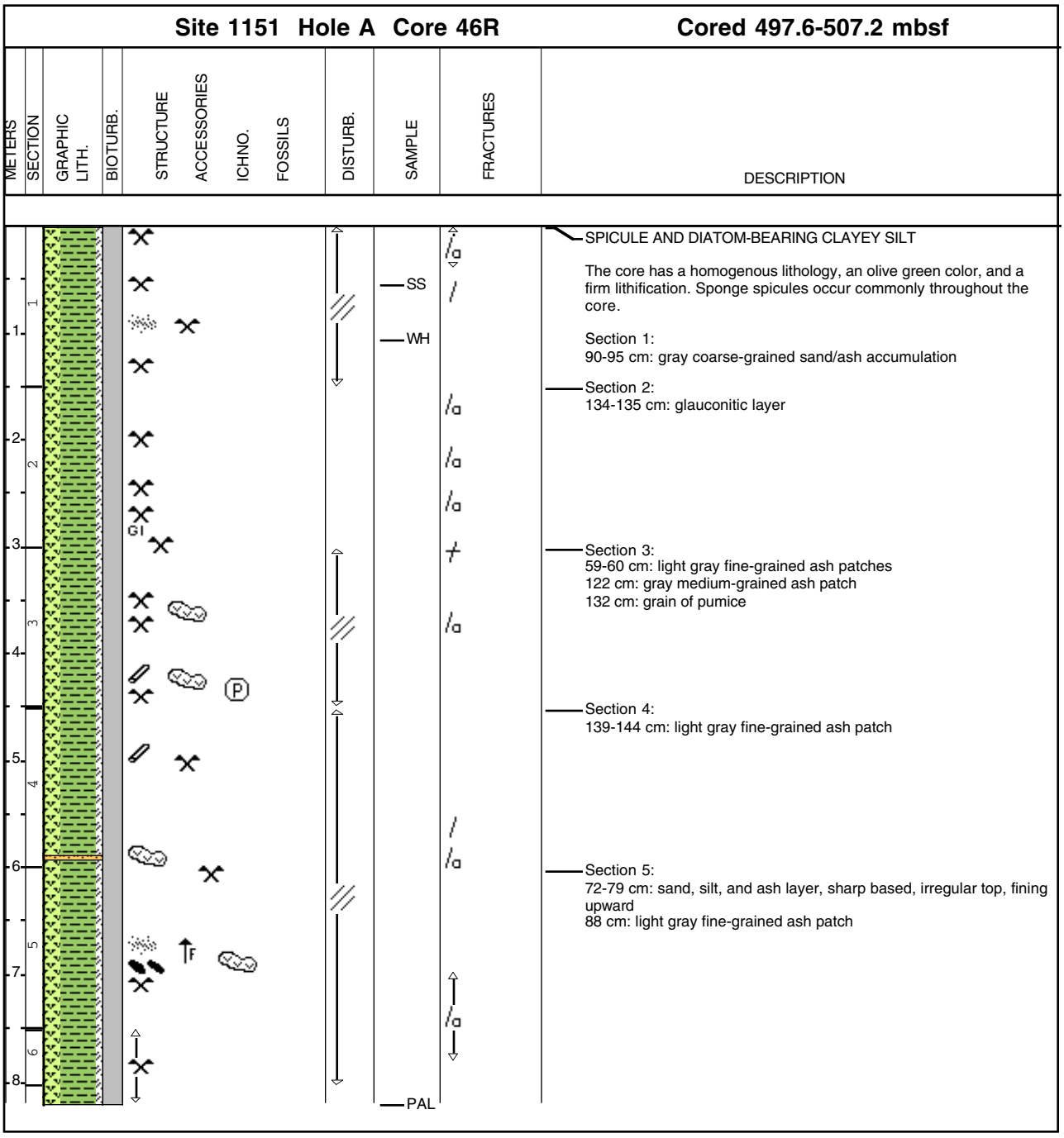
Core Photo


Site 1151 Hole A Core 44R
Cored 478.4-488 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
DIATOM, SPICULE, AND GLASS-BEARING SILTY CLAY
The core has a homogenous lithology, a patchy olive green color, and a firm lithification.
IW
Section 2:
50 cm: black dissolution-precipitation rim, 4 cm in diameter
Section 3:
67-68 cm: gray volcanic ash patches, very fine-grained, sharp boundaries
SS
Section 5:
This section contains very small greenish white volcanic ash patches.
PAL

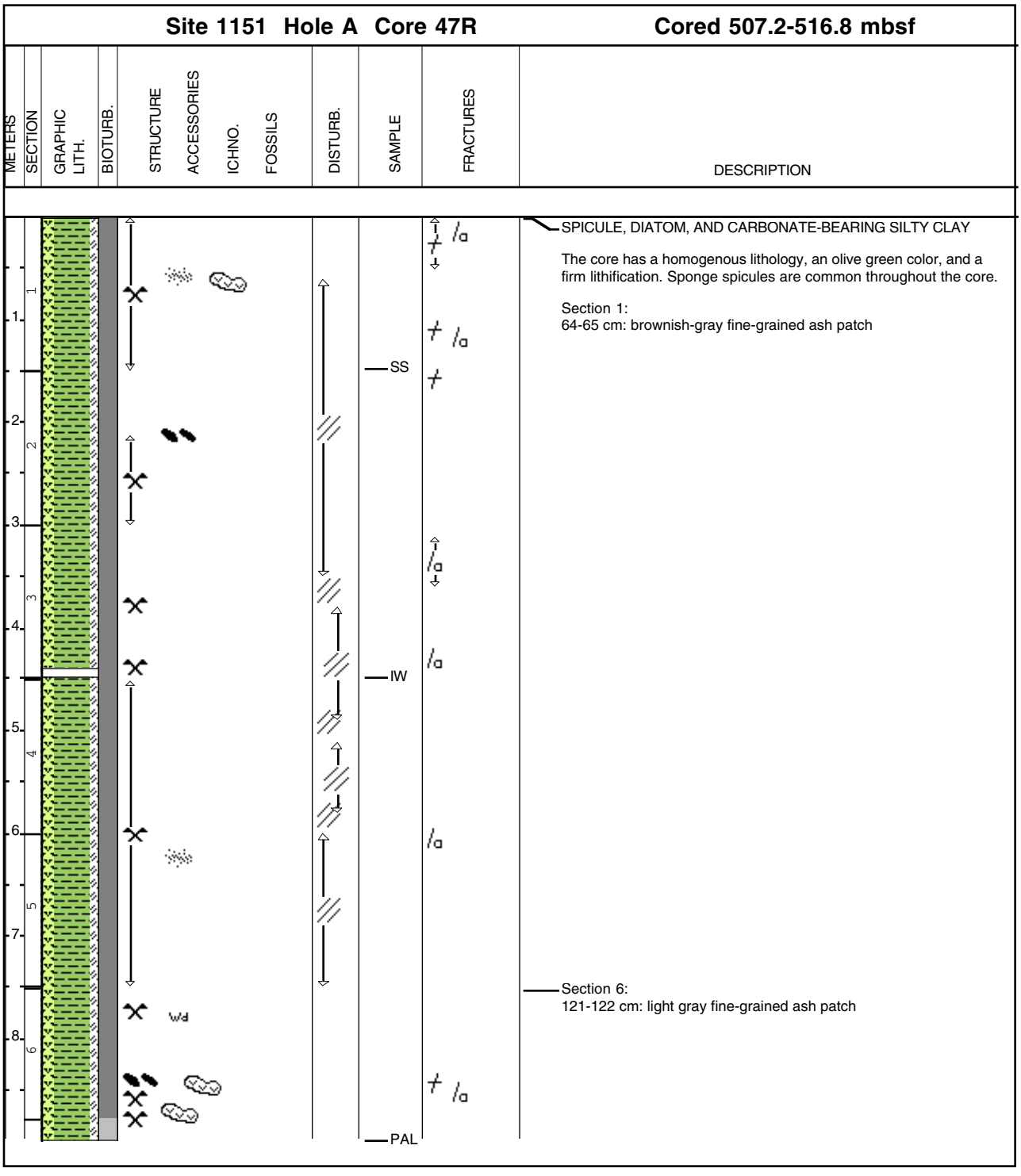
Core Photo


Site 1151 Hole A Core 45R
Cored 488-497.6 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
1
2
3
4
SS
PAL
GLASS, SPICULE, AND DIATOM-BEARING SILTY CLAYSTONE
The core has a homogenous lithology, a dark olive green color, and a firm lithification.
Section 2:
26 cm: light bluish dissolution-precipitation rim, 2 cm in diameter

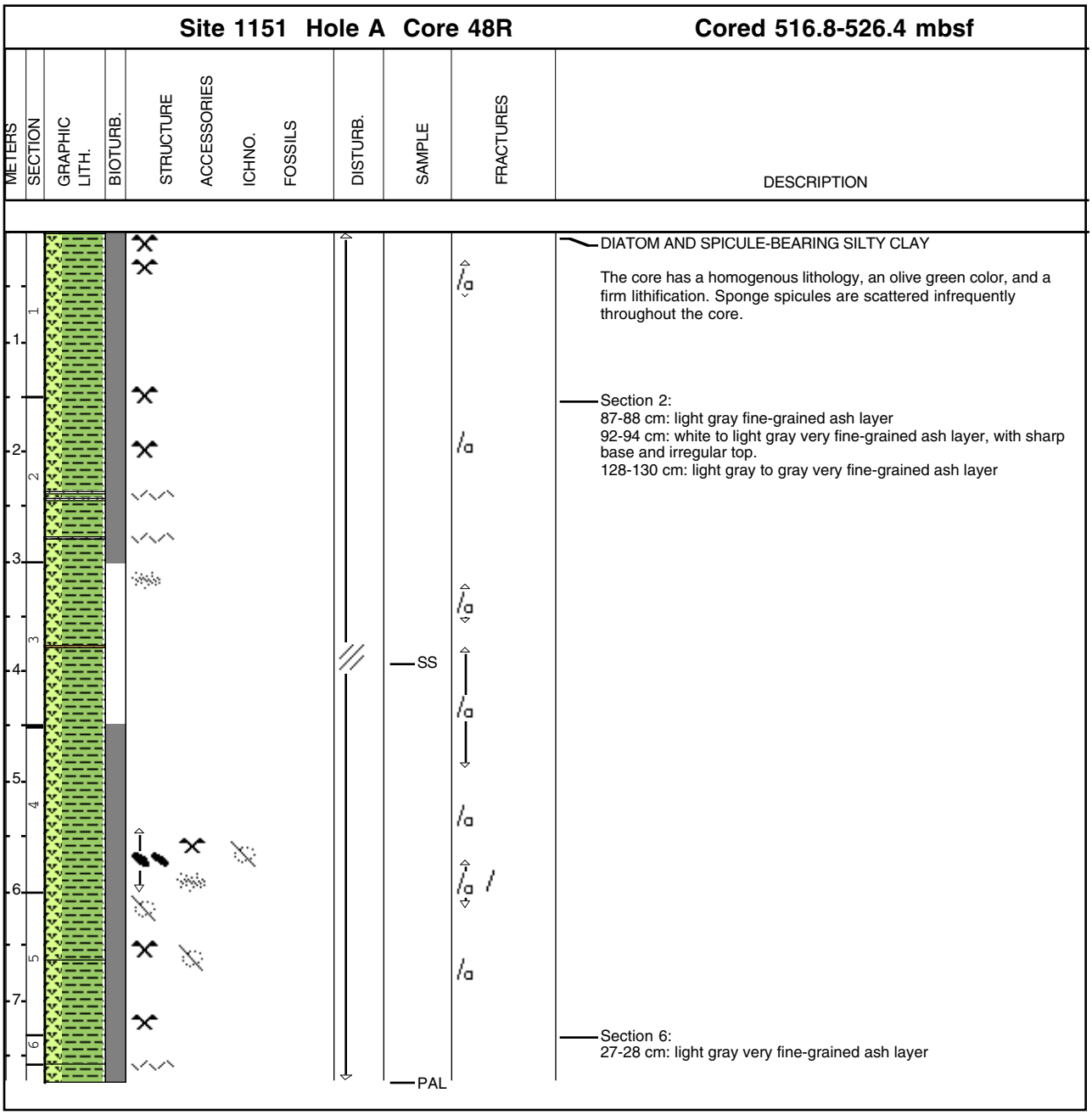
Core Photo


Site 1151 Hole A Core 46R
Cored 497.6-507.2 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
WH
PAL
GI
P
F
SPICULE AND DIATOM-BEARING CLAYEY SILT
The core has a homogenous lithology, an olive green color, and a firm lithification. Sponge spicules occur commonly throughout the core.
Section 1:
90-95 cm: gray coarse-grained sand/ash accumulation
Section 2:
134-135 cm: glauconitic layer
Section 3:
59-60 cm: light gray fine-grained ash patches
122 cm: gray medium-grained ash patch
132 cm: grain of pumice
Section 4:
139-144 cm: light gray fine-grained ash patch
Section 5:
72-79 cm: sand, silt, and ash layer, sharp based, irregular top, fining upward
88 cm: light gray fine-grained ash patch

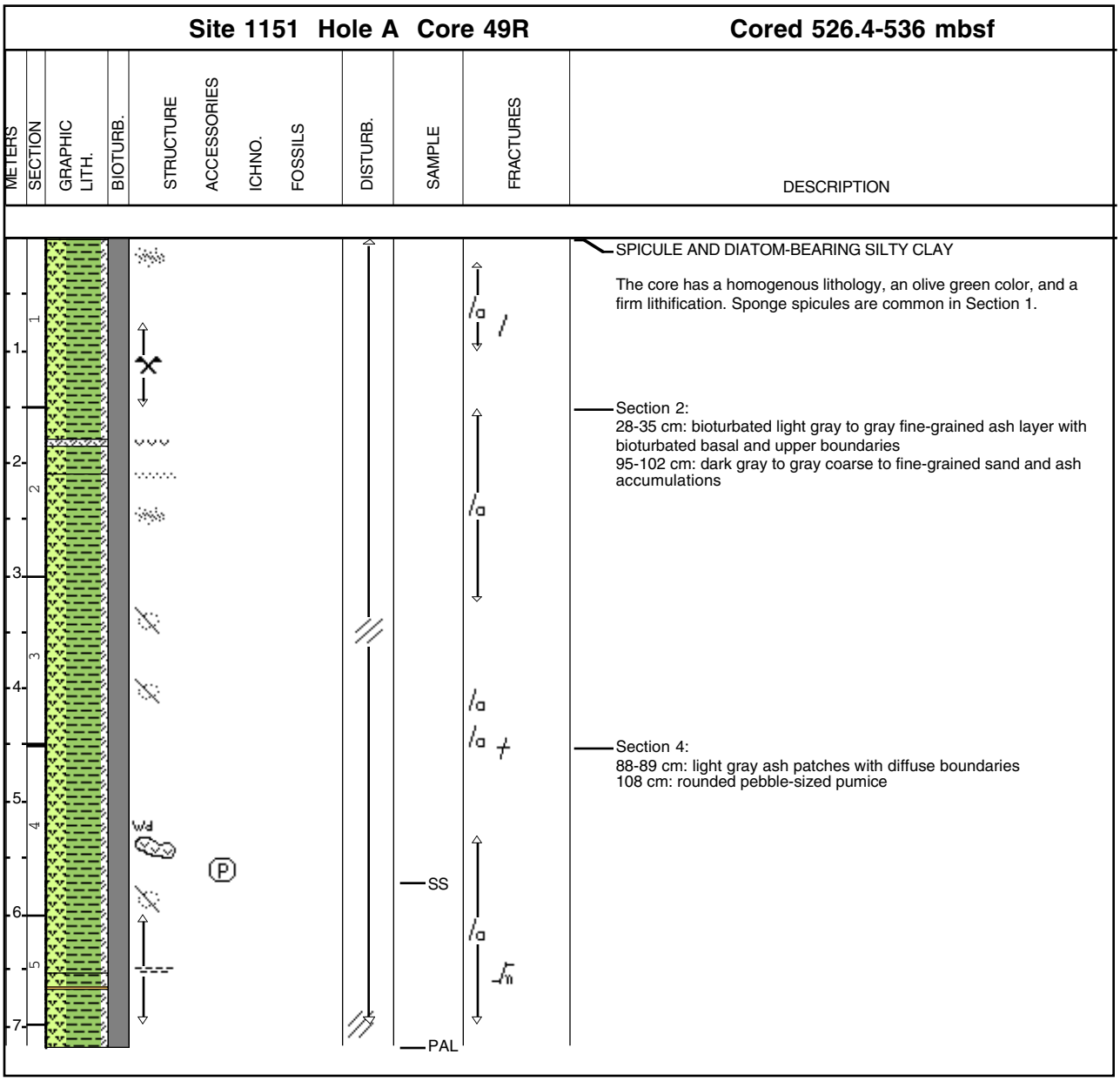
Core Photo


Site 1151 Hole A Core 47R
Cored 507.2-516.8 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
IW
PAL
SPICULE, DIATOM, AND CARBONATE-BEARING SILTY CLAY
The core has a homogenous lithology, an olive green color, and a firm lithification. Sponge spicules are common throughout the core.
Section 1:
64-65 cm: brownish-gray fine-grained ash patch
Section 6:
121-122 cm: light gray fine-grained ash patch

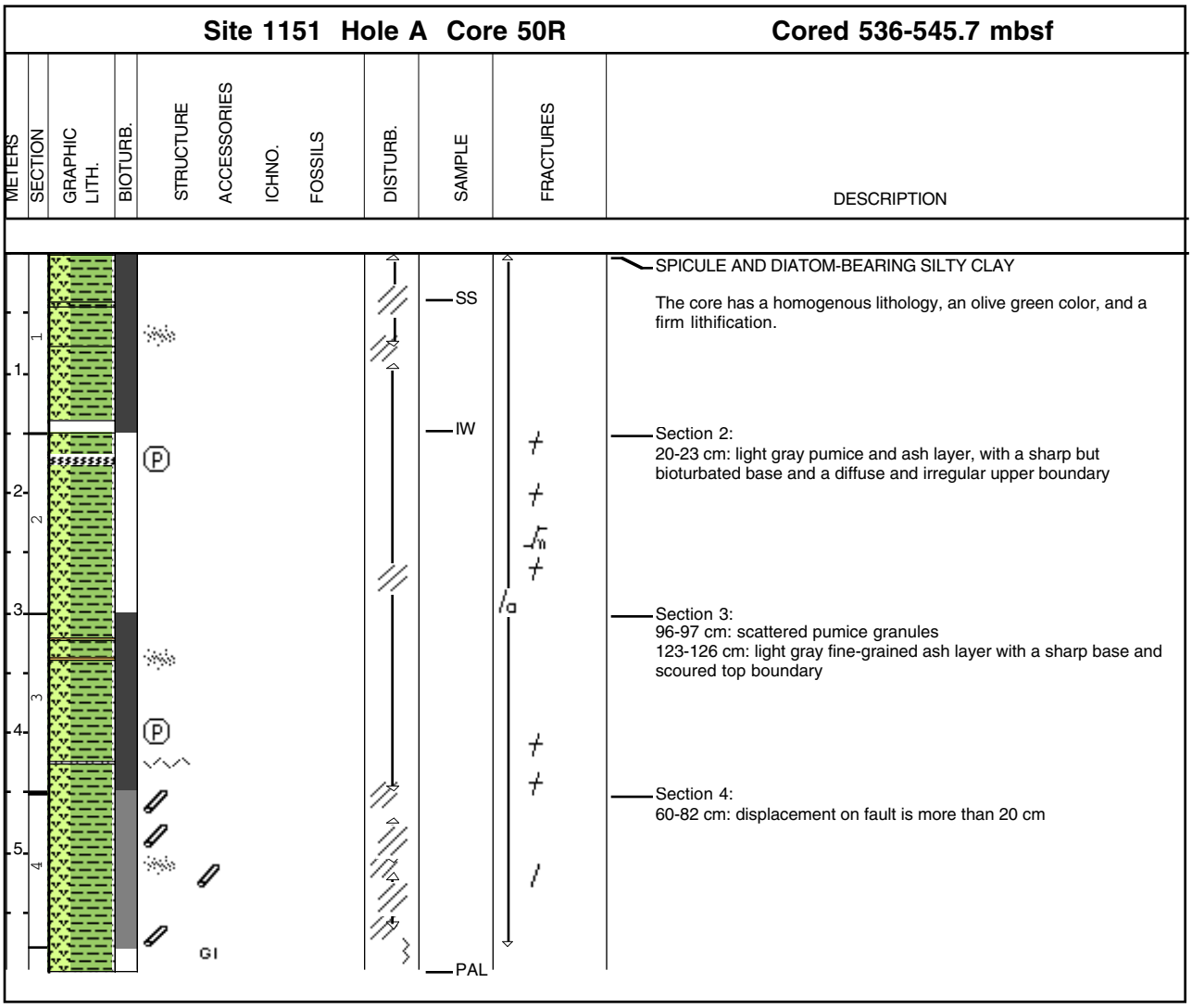
Core Photo


Site 1151 Hole A Core 48R
Cored 516.8-526.4 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
PAL
DIATOM AND SPICULE-BEARING SILTY CLAY
The core has a homogenous lithology, an olive green color, and a firm lithification. Sponge spicules are scattered infrequently throughout the core.
Section 2:
87-88 cm: light gray fine-grained ash layer
92-94 cm: white to light gray very fine-grained ash layer, with sharp base and irregular top.
128-130 cm: light gray to gray very fine-grained ash layer
Section 6:
27-28 cm: light gray very fine-grained ash layer

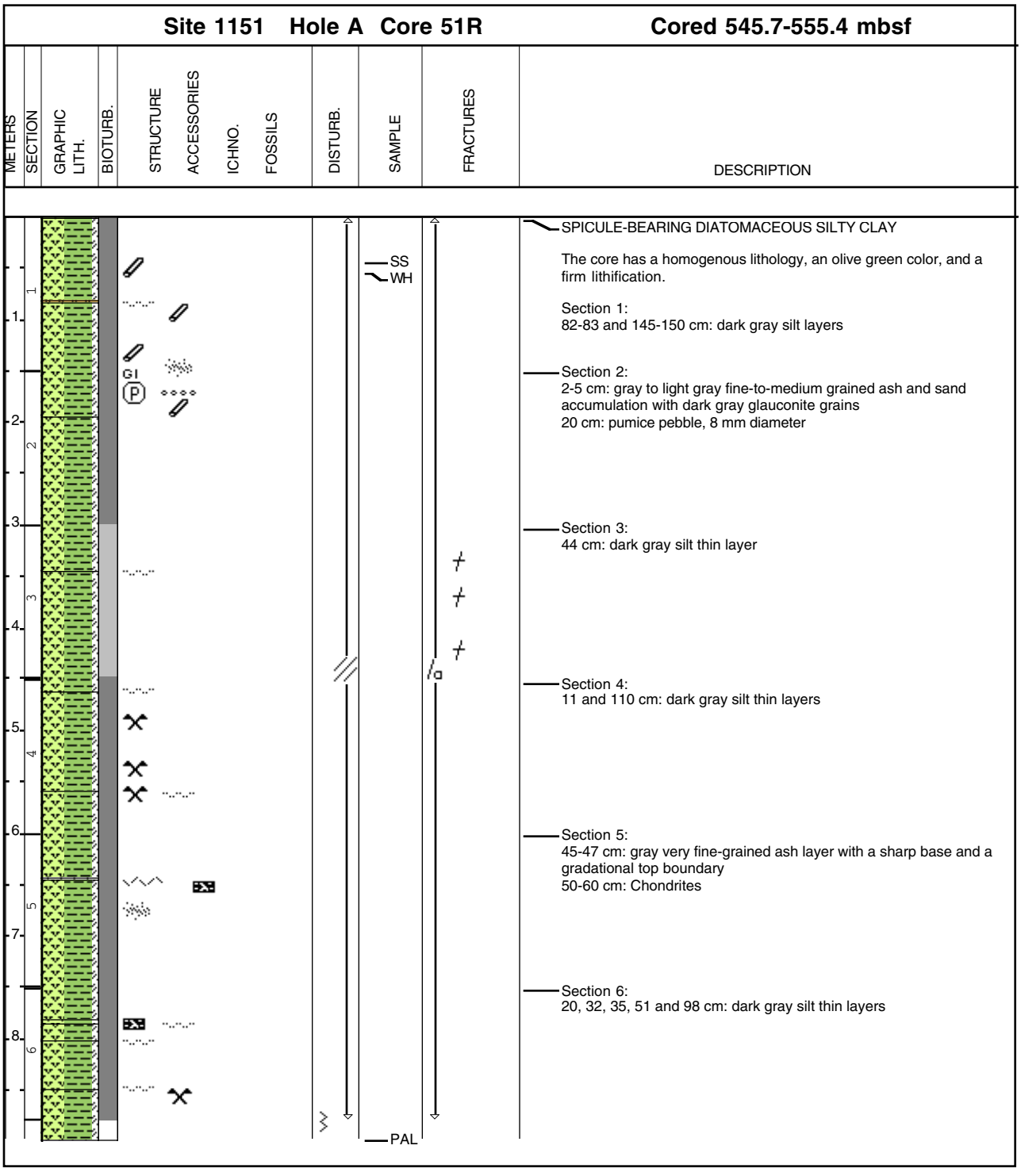
Core Photo


Site 1151 Hole A Core 49R
Cored 526.4-536 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
PAL
SPICULE AND DIATOM-BEARING SILTY CLAY
The core has a homogenous lithology, an olive green color, and a firm lithification. Sponge spicules are common in Section 1.
Section 2:
28-35 cm: bioturbated light gray to gray fine-grained ash layer with bioturbated basal and upper boundaries
95-102 cm: dark gray to gray coarse to fine-grained sand and ash accumulations
Section 4:
88-89 cm: light gray ash patches with diffuse boundaries
108 cm: rounded pebble-sized pumice

Core Photo


Site 1151 Hole A Core 50R
Cored 536-545.7 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
IW
PAL
GI
SPICULE AND DIATOM-BEARING SILTY CLAY
The core has a homogenous lithology, an olive green color, and a firm lithification.
Section 2:
20-23 cm: light gray pumice and ash layer, with a sharp but bioturbated base and a diffuse and irregular upper boundary
Section 3:
96-97 cm: scattered pumice granules
123-126 cm: light gray fine-grained ash layer with a sharp base and scoured top boundary
Section 4:
60-82 cm: displacement on fault is more than 20 cm

Core Photo


Site 1151 Hole A Core 51R
Cored 545.7-555.4 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
WH
PAL
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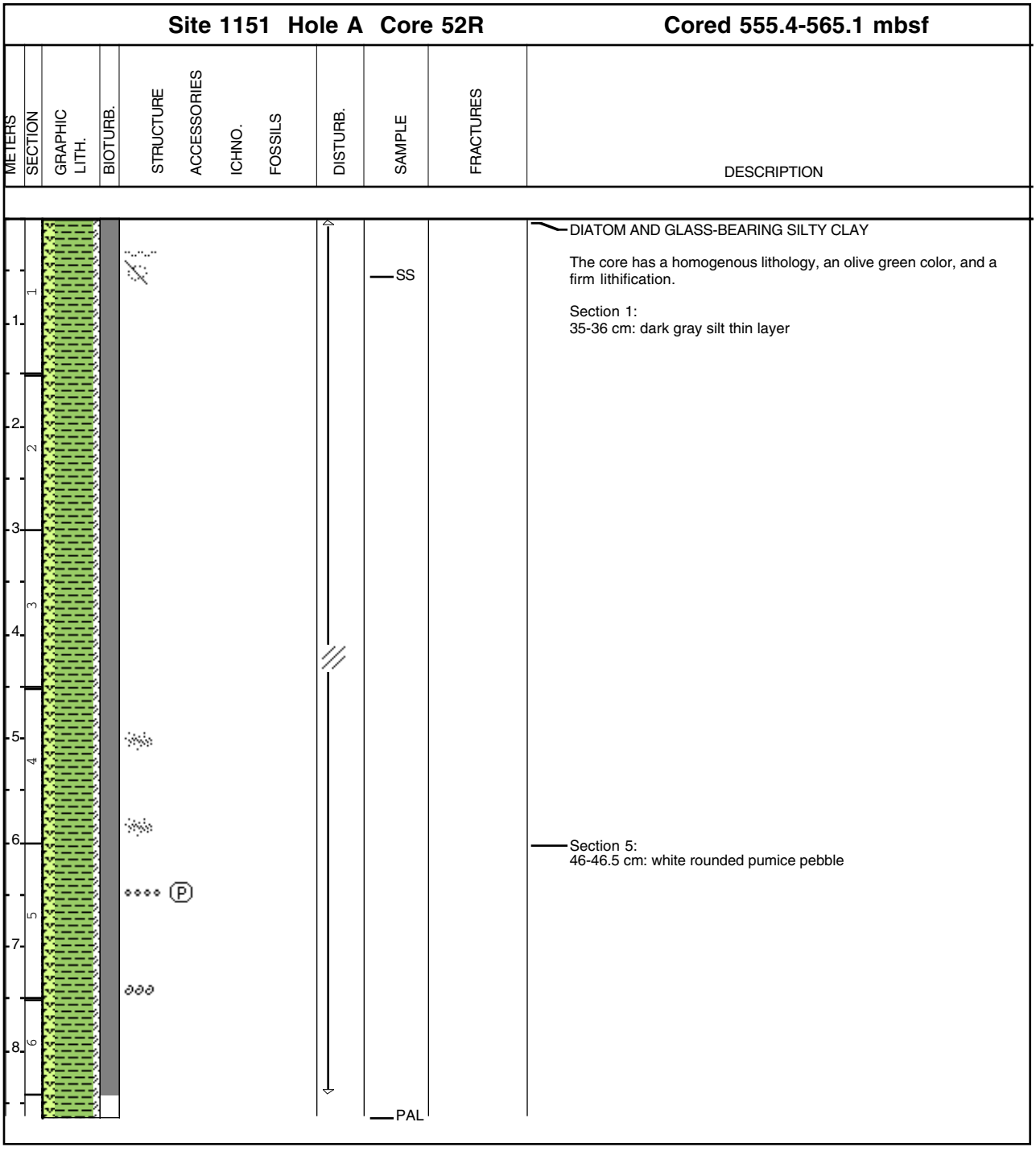
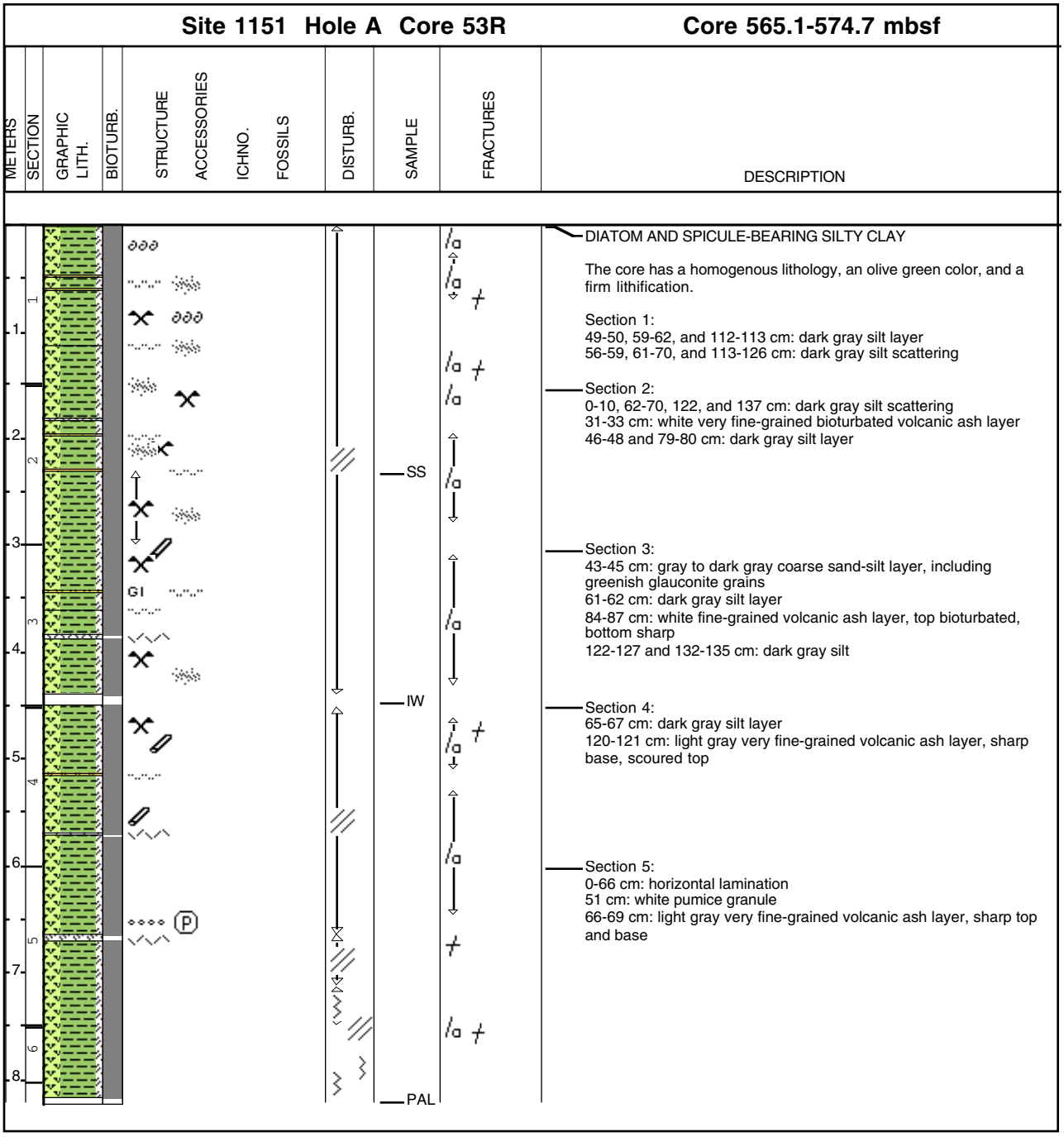
P
SPICULE-BEARING DIATOMACEOUS SILTY CLAY
The core has a homogenous lithology, an olive green color, and a firm lithification.
Section 1:
82-83 and 145-150 cm: dark gray silt layers
Section 2:
2-5 cm: gray to light gray fine-to-medium grained ash and sand accumulation with dark gray glauconite grains
20 cm: pumice pebble, 8 mm diameter
Section 3:
44 cm: dark gray silt thin layer
Section 4:
11 and 110 cm: dark gray silt thin layers
Section 5:
45-47 cm: gray very fine-grained ash layer with a sharp base and a gradational top boundary
50-60 cm: Chondrites
Section 6:
20, 32, 35, 51 and 98 cm: dark gray silt thin layers

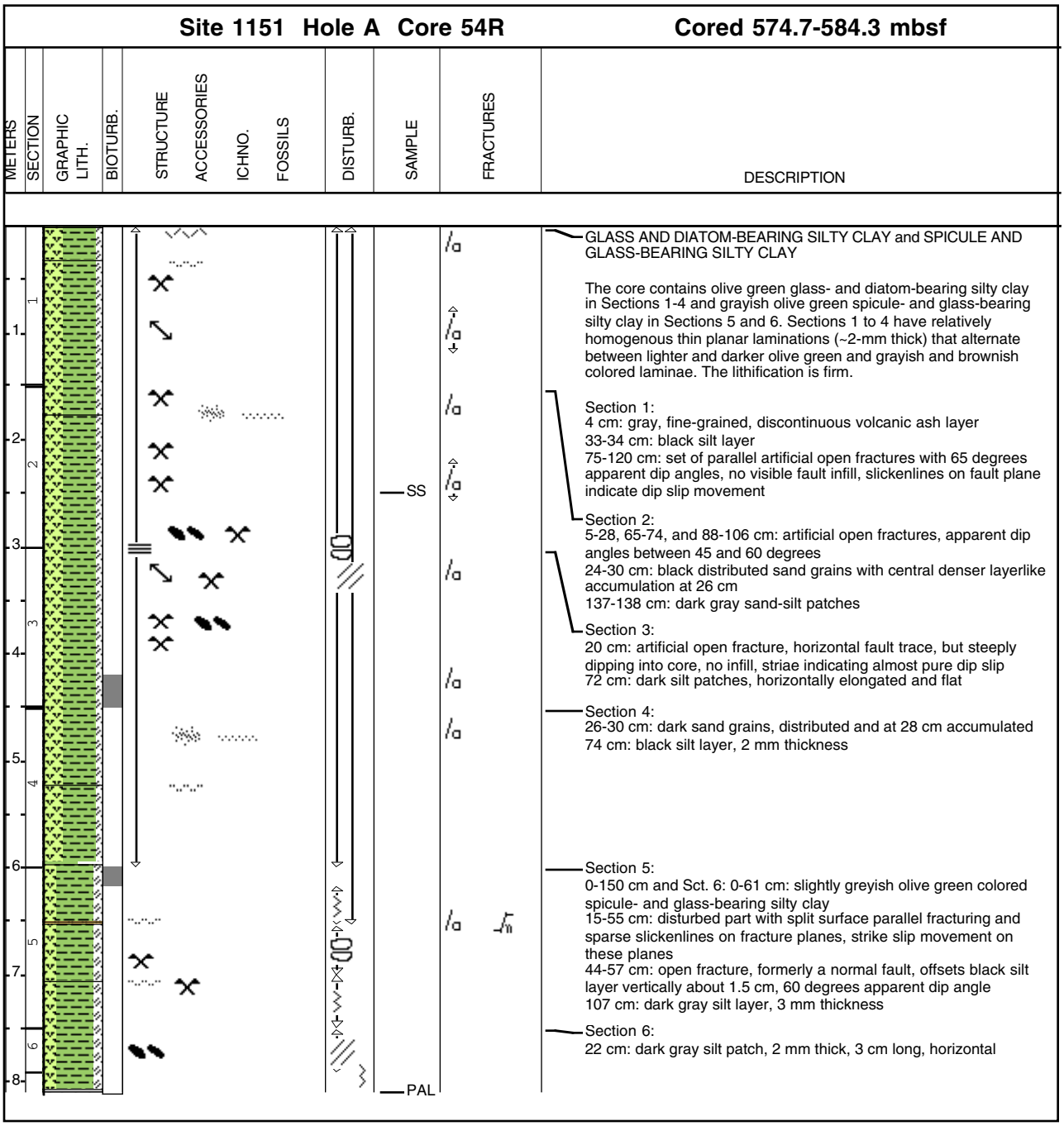
Core Photo


Site 1151 Hole A Core 52R
Cored 555.4-565.1 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
PAL
DIATOM AND GLASS-BEARING SILTY CLAY
The core has a homogenous lithology, an olive green color, and a firm lithification.
Section 1:
35-36 cm: dark gray silt thin layer
Section 5:
46-46.5 cm: white rounded pumice pebble

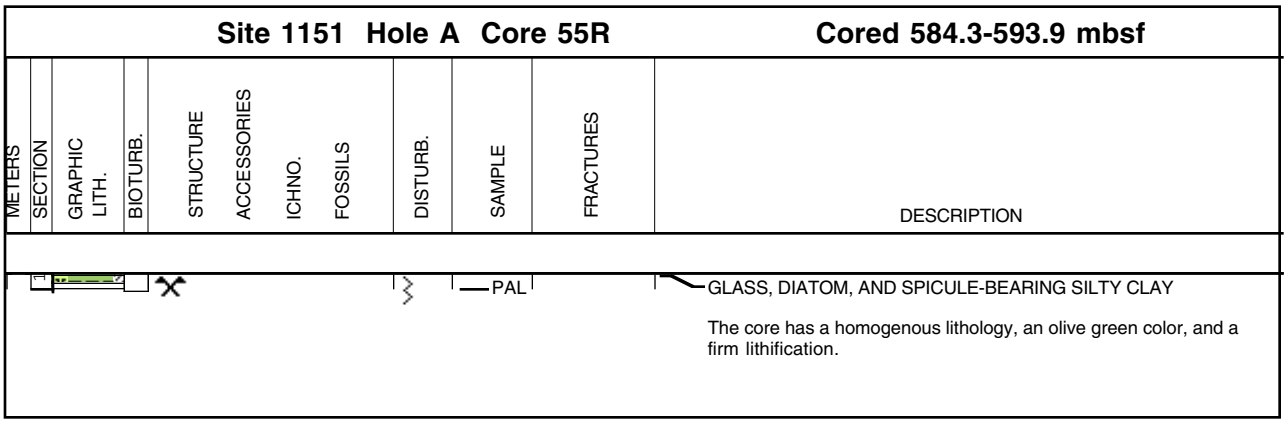
Core Photo


Site 1151 Hole A Core 53R
Core 565.1-574.7 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
IW
PAL
GI
P
DIATOM AND SPICULE-BEARING SILTY CLAY
The core has a homogenous lithology, an olive green color, and a firm lithification.
Section 1:
49-50, 59-62, and 112-113 cm: dark gray silt layer
56-59, 61-70, and 113-126 cm: dark gray silt scattering
Section 2:
0-10, 62-70, 122, and 137 cm: dark gray silt scattering
31-33 cm: white very fine-grained bioturbated volcanic ash layer
46-48 and 79-80 cm: dark gray silt layer
Section 3:
43-45 cm: gray to dark gray coarse sand-silt layer, including greenish glauconite grains
61-62 cm: dark gray silt layer
84-87 cm: white fine-grained volcanic ash layer, top bioturbated, bottom sharp
122-127 and 132-135 cm: dark gray silt
Section 4:
65-67 cm: dark gray silt layer
120-121 cm: light gray very fine-grained volcanic ash layer, sharp base, scoured top
Section 5:
0-66 cm: horizontal lamination
51 cm: white pumice granule
66-69 cm: light gray very fine-grained volcanic ash layer, sharp top and base

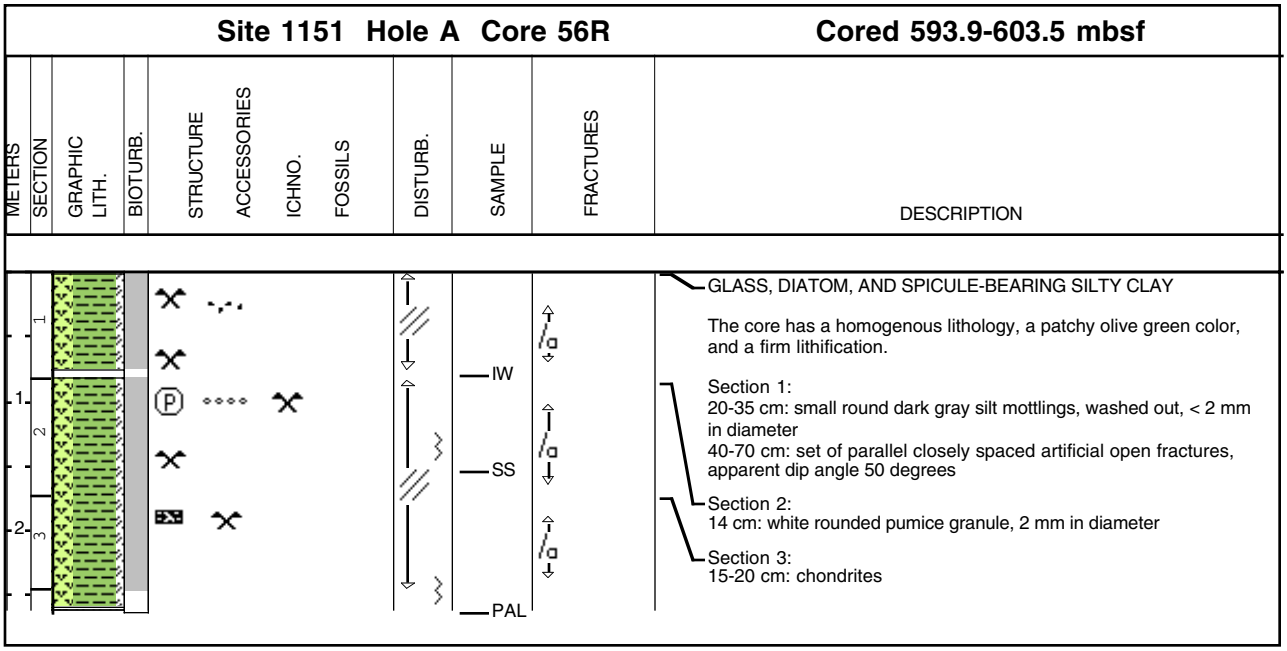
Core Photo


Site 1151 Hole A Core 54R
Cored 574.7-584.3 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
PAL
GLASS AND DIATOM-BEARING SILTY CLAY and SPICULE AND GLASS-BEARING SILTY CLAY
The core contains olive green glass- and diatom-bearing silty clay in Sections 1-4 and grayish olive green spicule- and glass-bearing silty clay in Sections 5 and 6. Sections 1 to 4 have relatively homogenous thin planar laminations (~2-mm thick) that alternate between lighter and darker olive green and grayish and brownish colored laminae. The lithification is firm.
Section 1:
4 cm: gray, fine-grained, discontinuous volcanic ash layer
33-34 cm: black silt layer
75-120 cm: set of parallel artificial open fractures with 65 degrees apparent dip angles, no visible fault infill, slickenlines on fault plane indicate dip slip movement
Section 2:
5-28, 65-74, and 88-106 cm: artificial open fractures, apparent dip angles between 45 and 60 degrees
24-30 cm: black distributed sand grains with central denser layerlike accumulation at 26 cm
137-138 cm: dark gray sand-silt patches
Section 3:
20 cm: artificial open fracture, horizontal fault trace, but steeply dipping into core, no infill, striae indicating almost pure dip slip
72 cm: dark silt patches, horizontally elongated and flat
Section 4:
26-30 cm: dark sand grains, distributed and at 28 cm accumulated
74 cm: black silt layer, 2 mm thickness
Section 5:
0-150 cm and Sct. 6: 0-61 cm: slightly greyish olive green colored spicule- and glass-bearing silty clay
15-55 cm: disturbed part with split surface parallel fracturing and sparse slickenlines on fracture planes, strike slip movement on these planes
44-57 cm: open fracture, formerly a normal fault, offsets black silt layer vertically about 1.5 cm, 60 degrees apparent dip angle
107 cm: dark gray silt layer, 3 mm thickness
Section 6:
22 cm: dark gray silt patch, 2 mm thick, 3 cm long, horizontal

Core Photo


Site 1151 Hole A Core 55R
Cored 584.3-593.9 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
PAL
GLASS, DIATOM, AND SPICULE-BEARING SILTY CLAY
The core has a homogenous lithology, an olive green color, and a firm lithification.

Core Photo


Site 1151 Hole A Core 56R
Cored 593.9-603.5 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
IW
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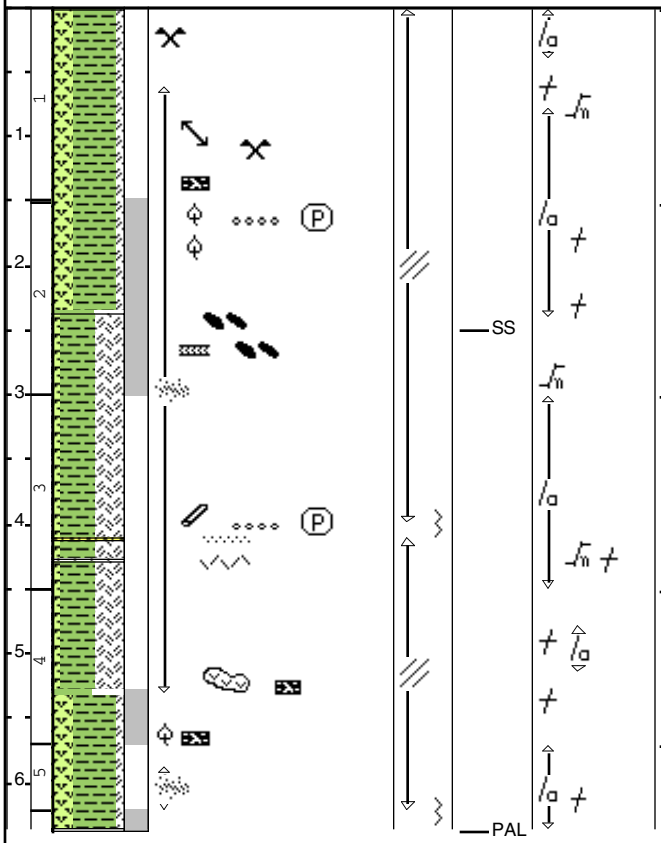
PAL
GLASS, DIATOM, AND SPICULE-BEARING SILTY CLAY
The core has a homogenous lithology, a patchy olive green color, and a firm lithification.
Section 1:
20-35 cm: small round dark gray silt mottlings, washed out, < 2 mm in diameter
40-70 cm: set of parallel closely spaced artificial open fractures, apparent dip angle 50 degrees
Section 2:
14 cm: white rounded pumice granule, 2 mm in diameter
Section 3:
15-20 cm: chondrites

Core Photo

Site 1151 Hole A Core 57R **Cored 603.5-613.2 mbsf**

METERS | SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | FRACTURES | DESCRIPTION



NANNOFOSSIL AND SPICULE-BEARING SILTY CLAY and CLAYEY VOLCANIC ASH

The core contains olive green nannofossil- and spicule-bearing silty clay, except in parts of Section 3, which is a clayey volcanic ash. The core has a firm lithification.

Section 1:
60-150 cm: sparse black and gray sand grains

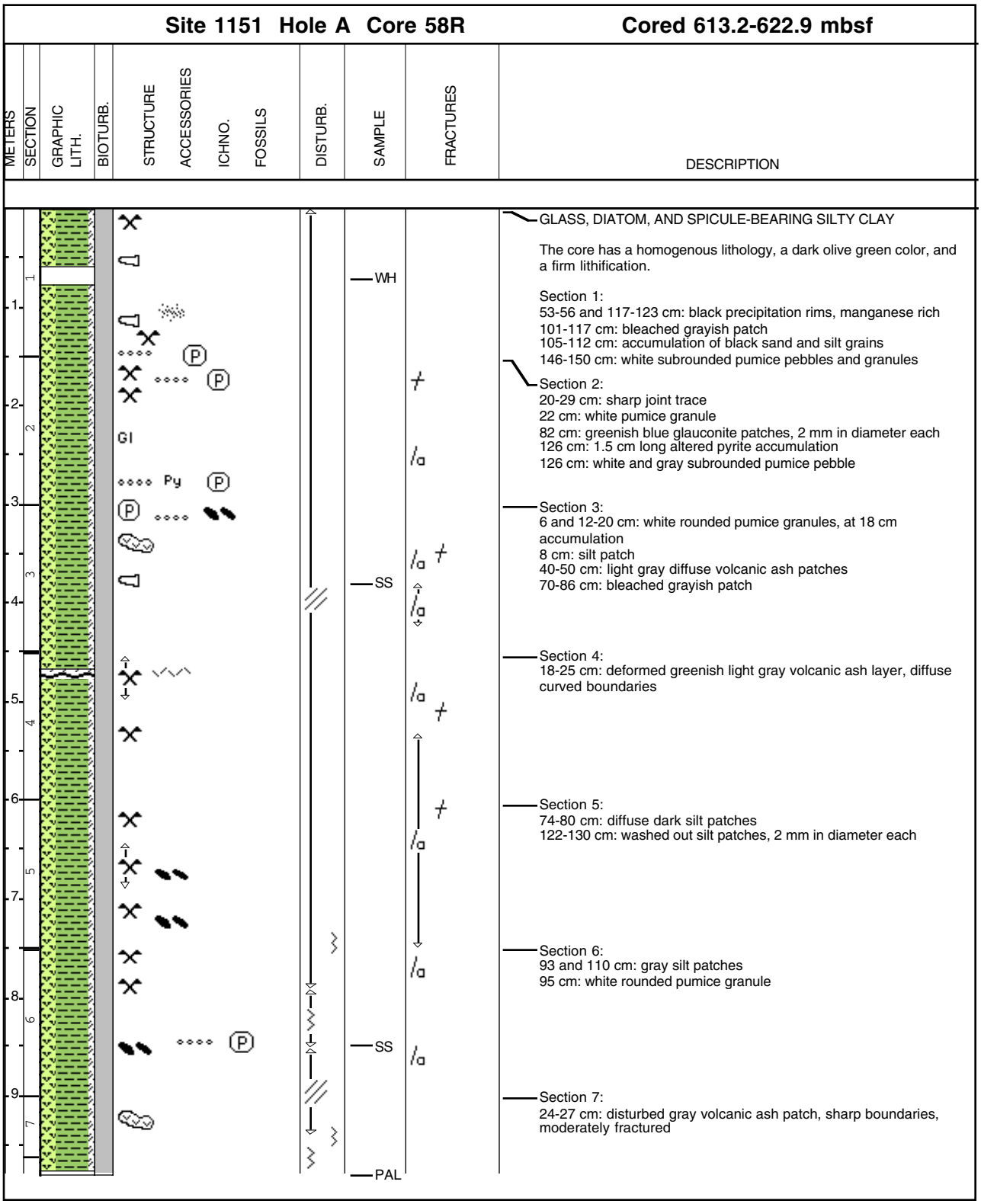
Section 2:
11 and 19 cm: white subrounded pumice granules
30-37 and 75-82 cm: anastomosing joints
92 cm: black silt patch
117-149 cm: set of parallel and branching, steep and wavy, curved normal faults, offset visible at bioturbation structures between 5-15 mm

Section 3:
0-150 cm: scattered black and gray sand grains, locally accumulated; at 98 cm a smear silde indicates that most of Section 3 is a clayey volcanic ash (texture: sand-bearing clayey silt)
93-97 cm: accumulation of white subrounded pumice pebbles
106 cm: white subrounded pumice pebble
110-113 cm: disturbed black sand layer with some pumice granules
122-123 cm accumulation of several white rounded pumice granules
127-129 cm: disturbed volcanic ash layer, light gray, cut by steep normal fault with vertical offset at least 3 cm
128-133 cm: strongly anastomosing joint

Section 4:
0-80 cm: high amount of black and gray sand grains and dark olive green color
28-54 cm: set of closely spaced parallel joints, strongly anastomosing each and filled with thin dark infill
70 cm: light gray volcanic ash patch, sand grain sized grains

Section 5:
15-51 cm: black scattered sand grains

Core Photo


Site 1151 Hole A Core 58R
Cored 613.2-622.9 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
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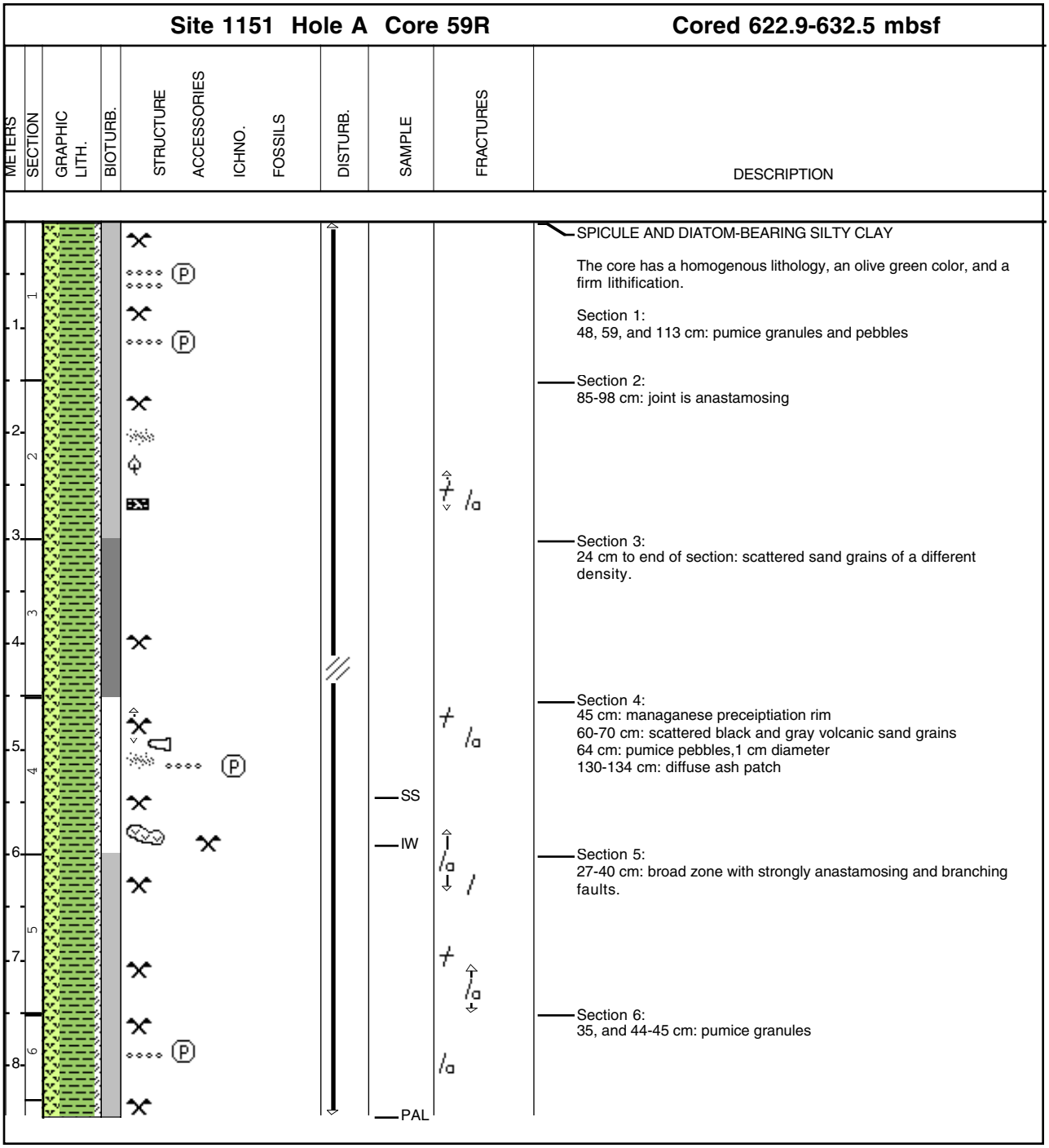
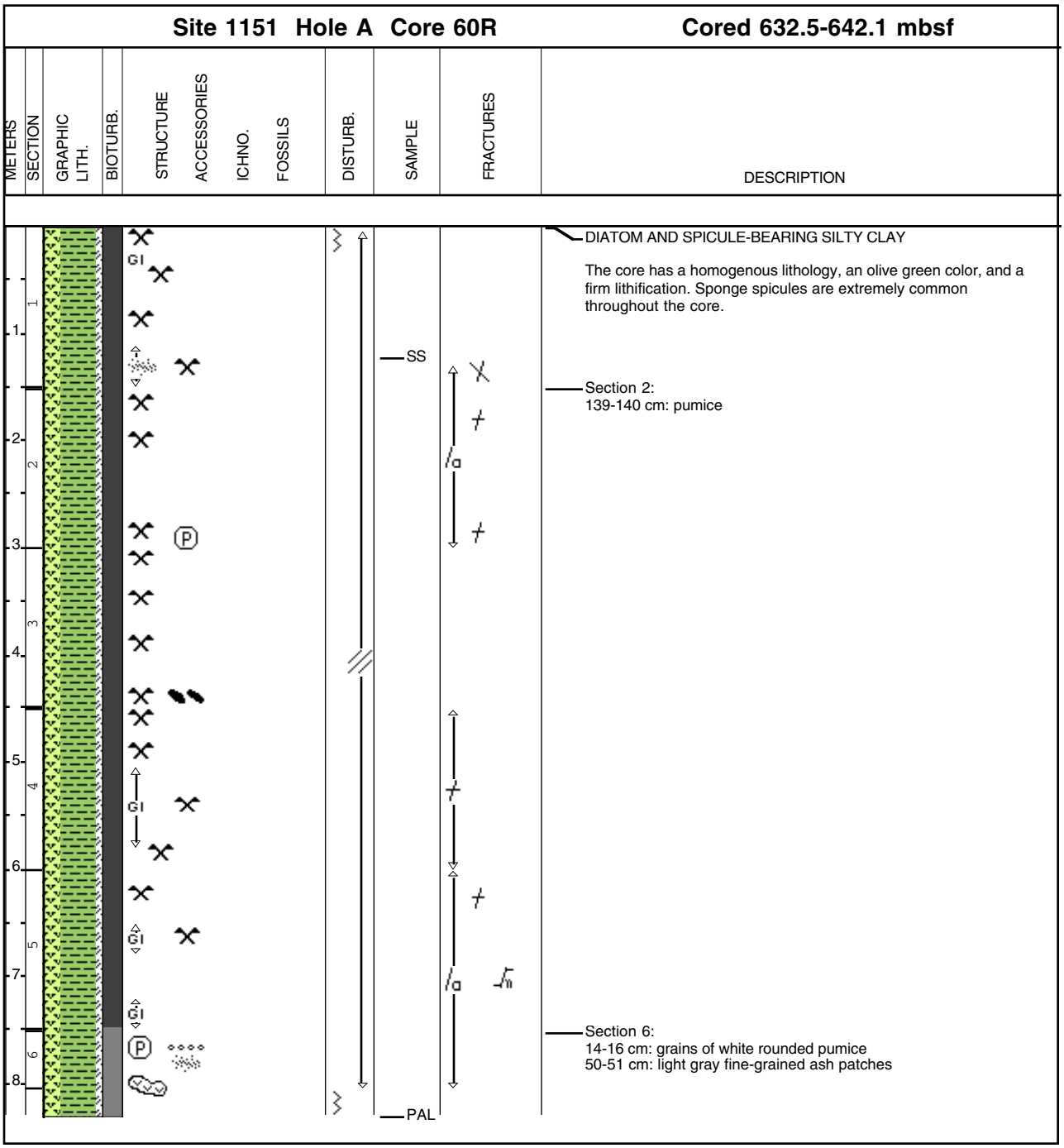
GLASS, DIATOM, AND SPICULE-BEARING SILTY CLAY
The core has a homogenous lithology, a dark olive green color, and a firm lithification.
Section 1:
53-56 and 117-123 cm: black precipitation rims, manganese rich
101-117 cm: bleached grayish patch
105-112 cm: accumulation of black sand and silt grains
146-150 cm: white subrounded pumice pebbles and granules
Section 2:
20-29 cm: sharp joint trace
22 cm: white pumice granule
82 cm: greenish blue glauconite patches, 2 mm in diameter each
126 cm: 1.5 cm long altered pyrite accumulation
126 cm: white and gray subrounded pumice pebble
Section 3:
6 and 12-20 cm: white rounded pumice granules, at 18 cm accumulation
8 cm: silt patch
40-50 cm: light gray diffuse volcanic ash patches
70-86 cm: bleached grayish patch
Section 4:
18-25 cm: deformed greenish light gray volcanic ash layer, diffuse curved boundaries
Section 5:
74-80 cm: diffuse dark silt patches
122-130 cm: washed out silt patches, 2 mm in diameter each
Section 6:
93 and 110 cm: gray silt patches
95 cm: white rounded pumice granule
Section 7:
24-27 cm: disturbed gray volcanic ash patch, sharp boundaries, moderately fractured

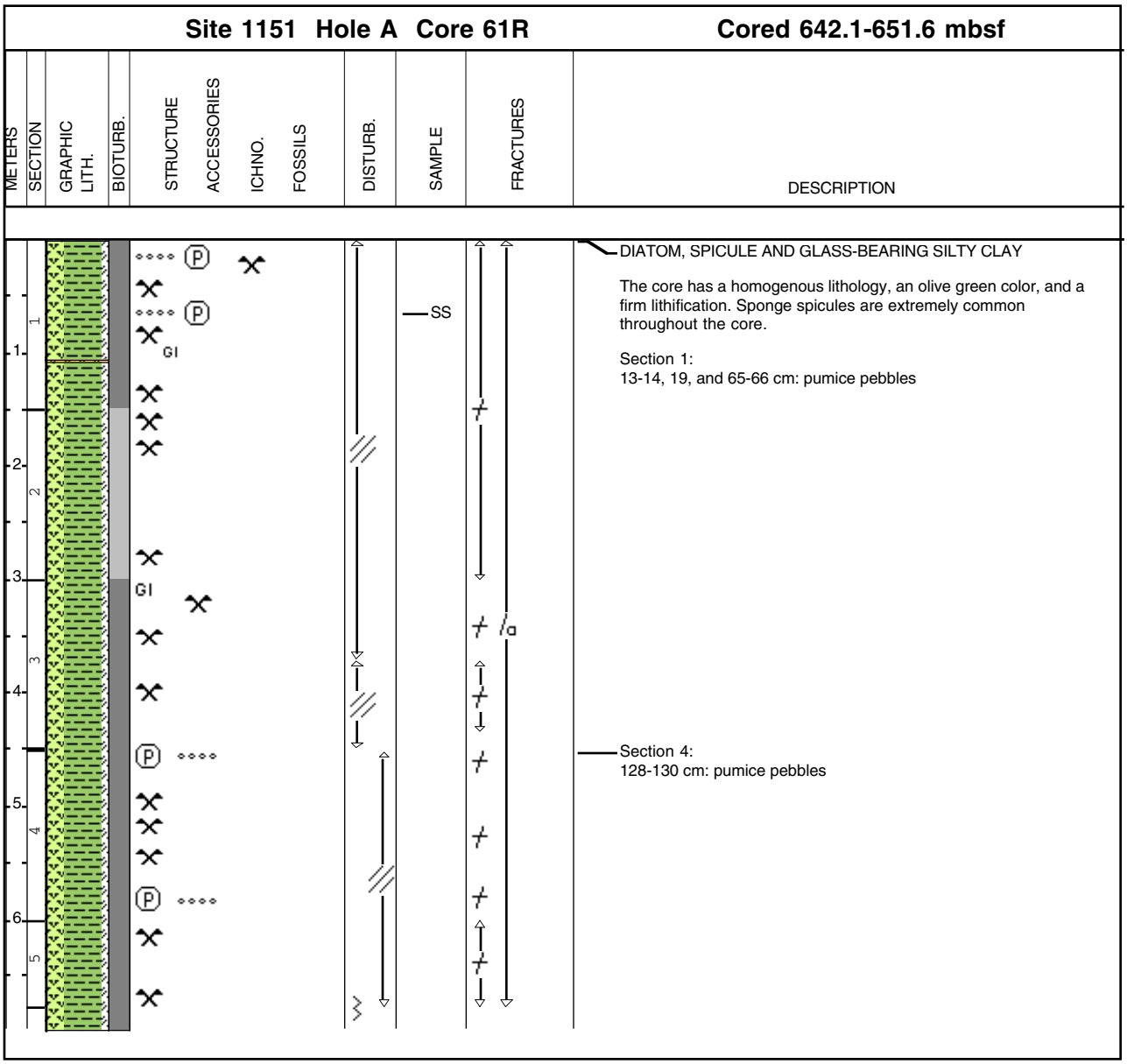
Core Photo


Site 1151 Hole A Core 59R
Cored 622.9-632.5 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
IW
PAL
SPICULE AND DIATOM-BEARING SILTY CLAY
The core has a homogenous lithology, an olive green color, and a firm lithification.
Section 1:
48, 59, and 113 cm: pumice granules and pebbles
Section 2:
85-98 cm: joint is anastamosing
Section 3:
24 cm to end of section: scattered sand grains of a different density.
Section 4:
45 cm: managanese preceiptiation rim
60-70 cm: scattered black and gray volcanic sand grains
64 cm: pumice pebbles,1 cm diameter
130-134 cm: diffuse ash patch
Section 5:
27-40 cm: broad zone with strongly anastamosing and branching faults.
Section 6:
35, and 44-45 cm: pumice granules

Core Photo


Site 1151 Hole A Core 60R
Cored 632.5-642.1 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
DIATOM AND SPICULE-BEARING SILTY CLAY
The core has a homogenous lithology, an olive green color, and a firm lithification. Sponge spicules are extremely common throughout the core.
SS
Section 2:
139-140 cm: pumice
Section 6:
14-16 cm: grains of white rounded pumice
50-51 cm: light gray fine-grained ash patches
PAL

Core Photo


Site 1151 Hole A Core 61R
Cored 642.1-651.6 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
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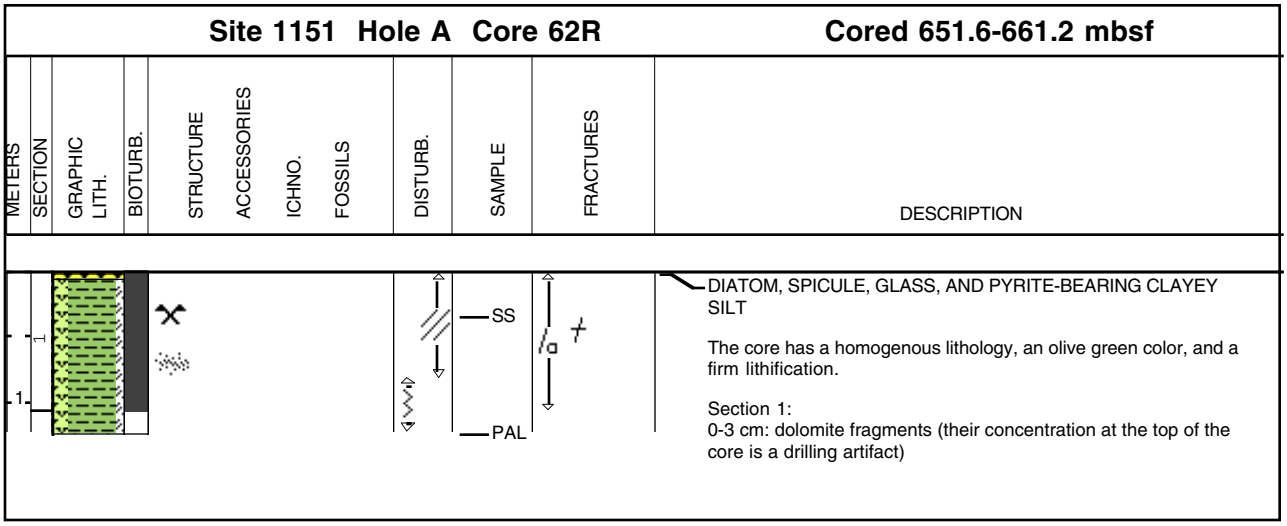
DIATOM, SPICULE AND GLASS-BEARING SILTY CLAY
The core has a homogenous lithology, an olive green color, and a firm lithification. Sponge spicules are extremely common throughout the core.
Section 1:
13-14, 19, and 65-66 cm: pumice pebbles
Section 4:
128-130 cm: pumice pebbles

Core Photo


Site 1151 Hole A Core 62R
Cored 651.6-661.2 mbsf
METERS
SECTION
GRAPHIC LITH.
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STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
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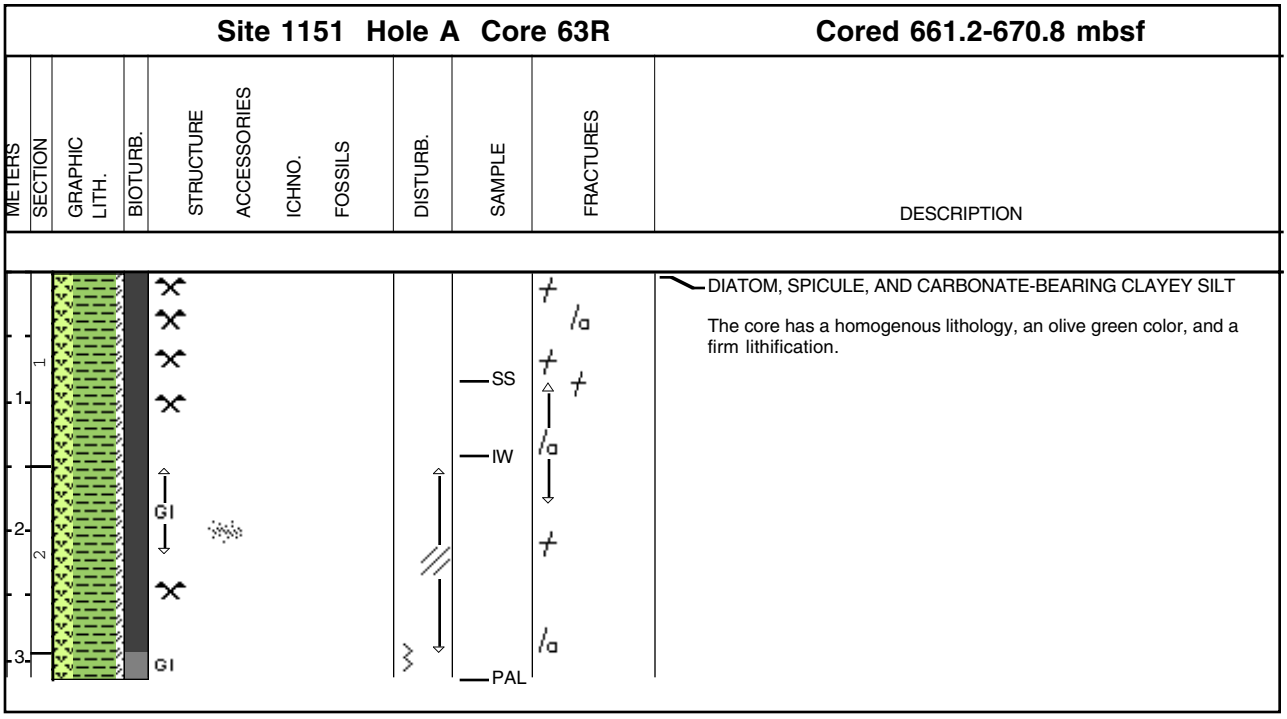
PAL
DIATOM, SPICULE, GLASS, AND PYRITE-BEARING CLAYEY SILT
The core has a homogenous lithology, an olive green color, and a firm lithification.
Section 1:
0-3 cm: dolomite fragments (their concentration at the top of the core is a drilling artifact)

Core Photo


Site 1151 Hole A Core 63R
Cored 661.2-670.8 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
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ACCESSORIES
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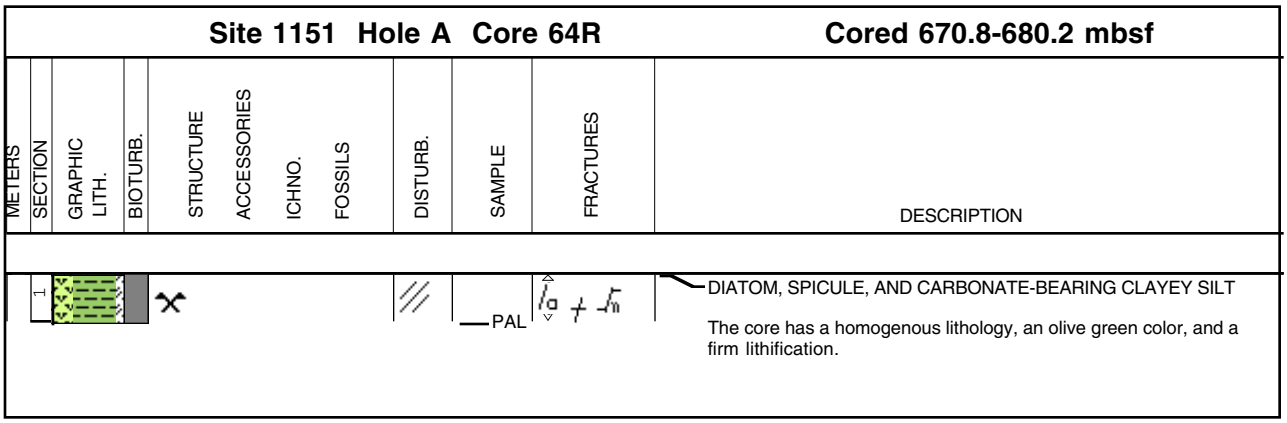
DIATOM, SPICULE, AND CARBONATE-BEARING CLAYEY SILT
The core has a homogenous lithology, an olive green color, and a firm lithification.

Core Photo


Site 1151 Hole A Core 64R
Cored 670.8-680.2 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
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FOSSILS
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SAMPLE
FRACTURES
DESCRIPTION
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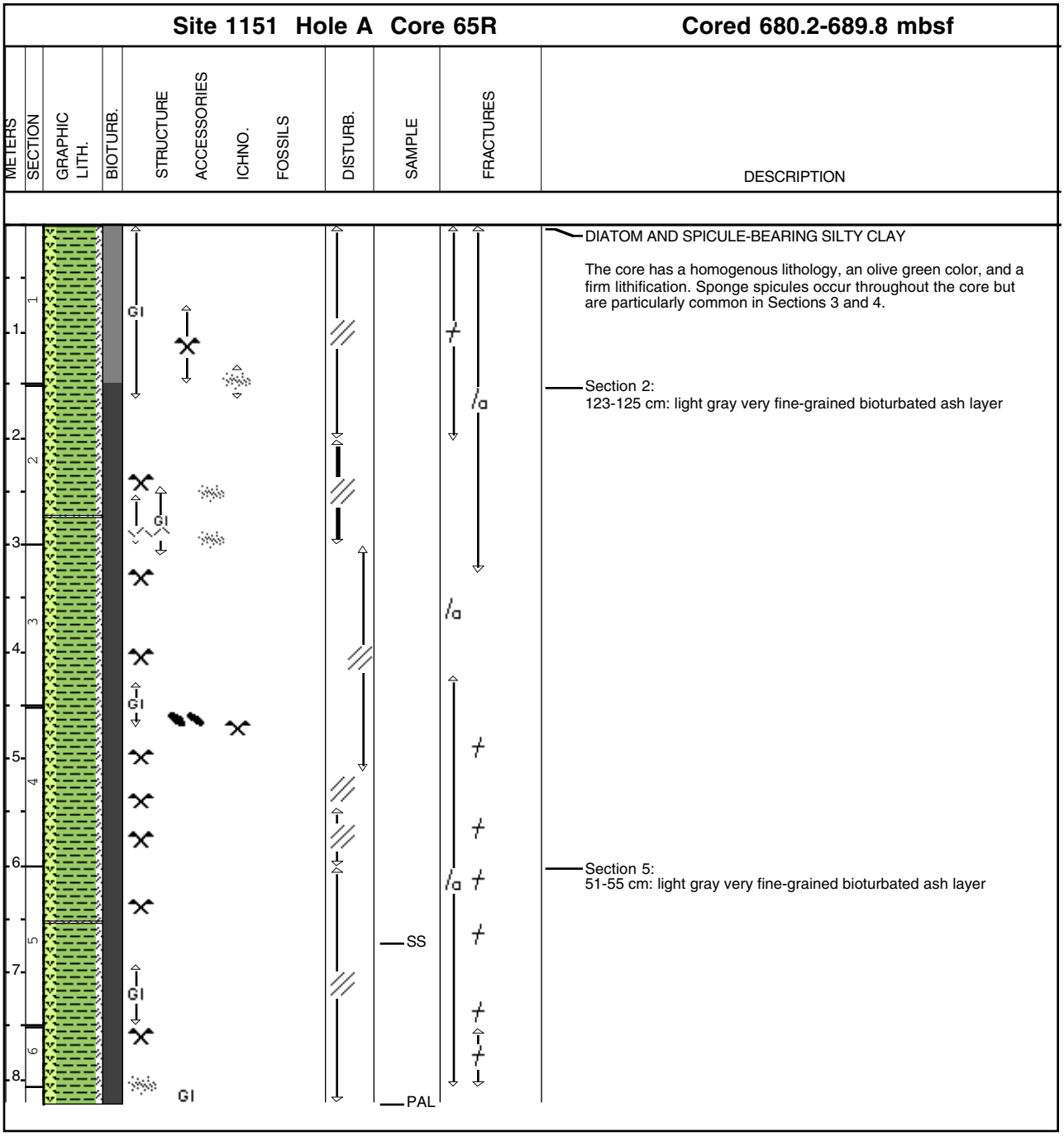
DIATOM, SPICULE, AND CARBONATE-BEARING CLAYEY SILT
The core has a homogenous lithology, an olive green color, and a firm lithification.

Core Photo


Site 1151 Hole A Core 65R
Cored 680.2-689.8 mbsf
METERS
SECTION
GRAPHIC LITH.
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STRUCTURE
ACCESSORIES
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FOSSILS
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SAMPLE
FRACTURES
DESCRIPTION
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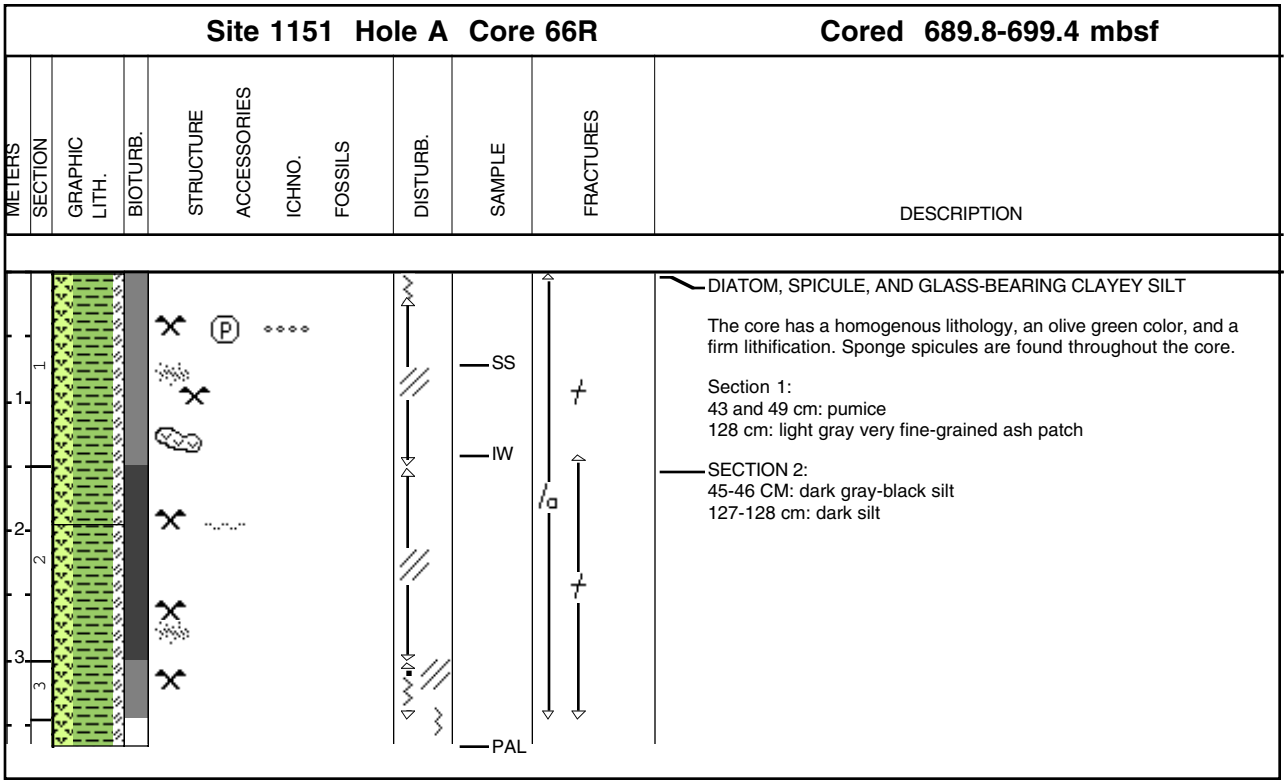
DIATOM AND SPICULE-BEARING SILTY CLAY
The core has a homogenous lithology, an olive green color, and a firm lithification. Sponge spicules occur throughout the core but are particularly common in Sections 3 and 4.
Section 2:
123-125 cm: light gray very fine-grained bioturbated ash layer
Section 5:
51-55 cm: light gray very fine-grained bioturbated ash layer

Core Photo


Site 1151 Hole A Core 66R
Cored 689.8-699.4 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
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FOSSILS
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SAMPLE
FRACTURES
DESCRIPTION
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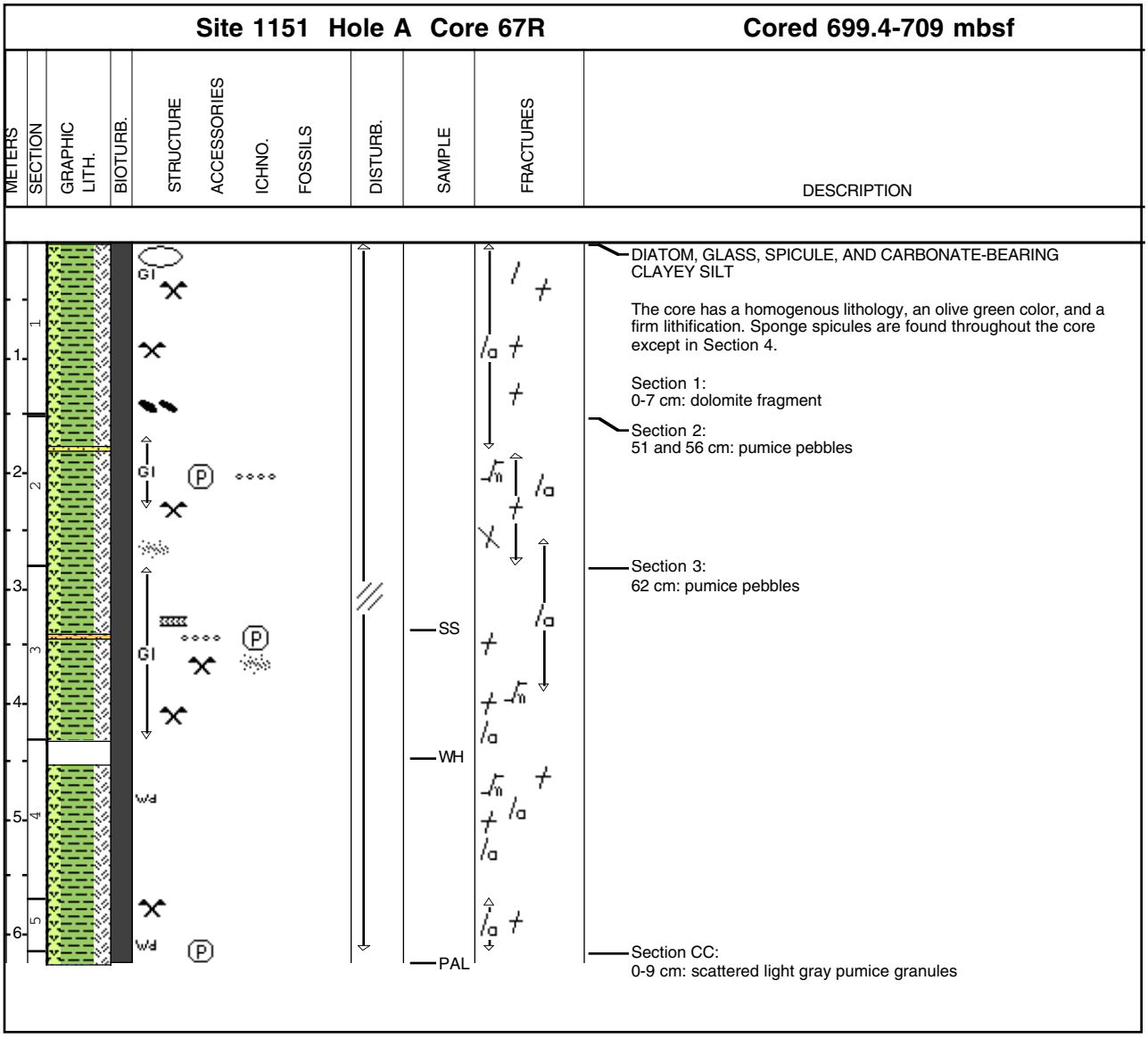
PAL
DIATOM, SPICULE, AND GLASS-BEARING CLAYEY SILT
The core has a homogenous lithology, an olive green color, and a firm lithification. Sponge spicules are found throughout the core.
Section 1:
43 and 49 cm: pumice
128 cm: light gray very fine-grained ash patch
SECTION 2:
45-46 CM: dark gray-black silt
127-128 cm: dark silt

Core Photo


Site 1151 Hole A Core 67R
Cored 699.4-709 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
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FOSSILS
DISTURB.
SAMPLE
FRACTURES
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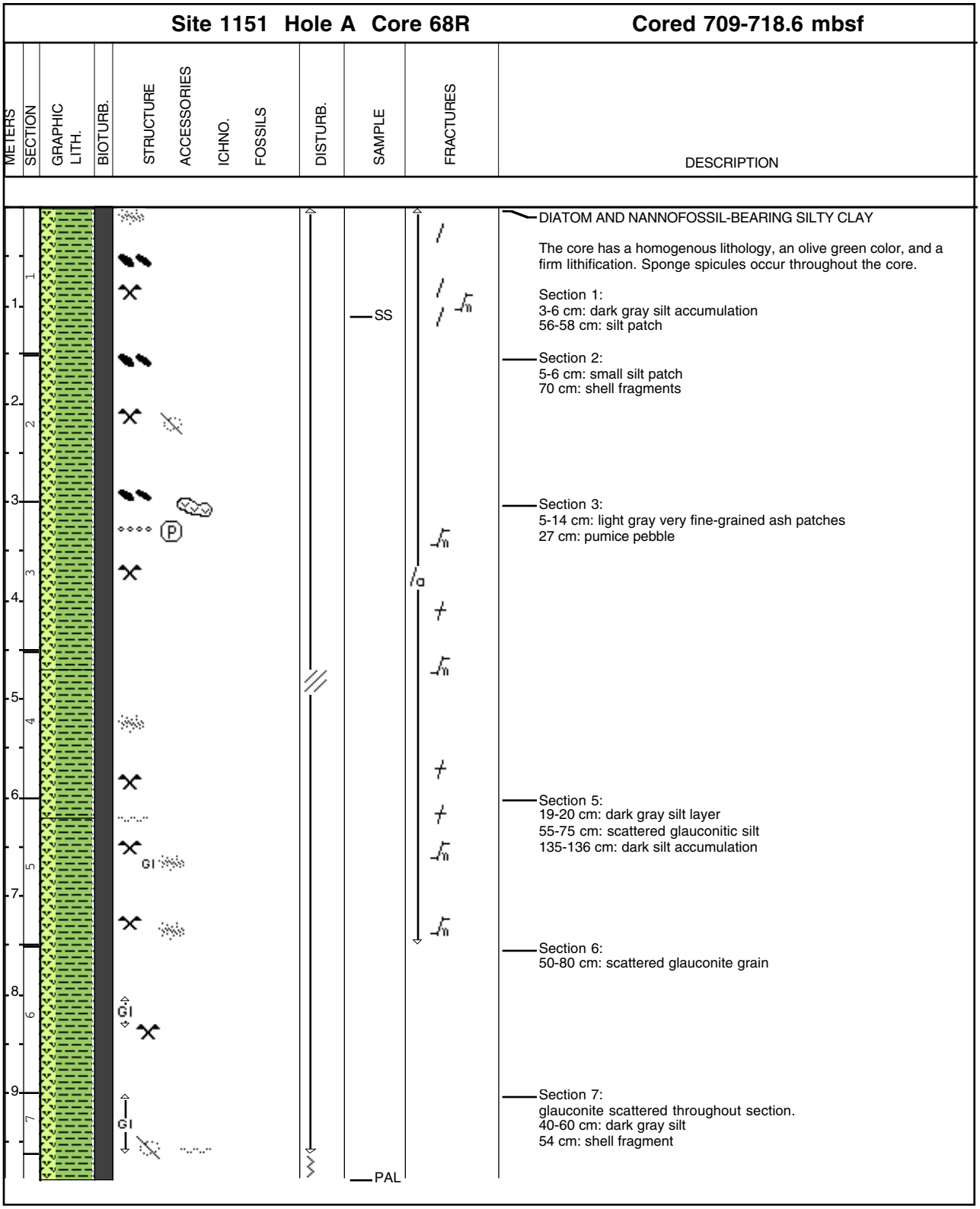
DIATOM, GLASS, SPICULE, AND CARBONATE-BEARING CLAYEY SILT
The core has a homogenous lithology, an olive green color, and a firm lithification. Sponge spicules are found throughout the core except in Section 4.
Section 1:
0-7 cm: dolomite fragment
Section 2:
51 and 56 cm: pumice pebbles
Section 3:
62 cm: pumice pebbles
Section CC:
0-9 cm: scattered light gray pumice granules

Core Photo


Site 1151 Hole A Core 68R
Cored 709-718.6 mbsf
METERS
SECTION
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FOSSILS
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SAMPLE
FRACTURES
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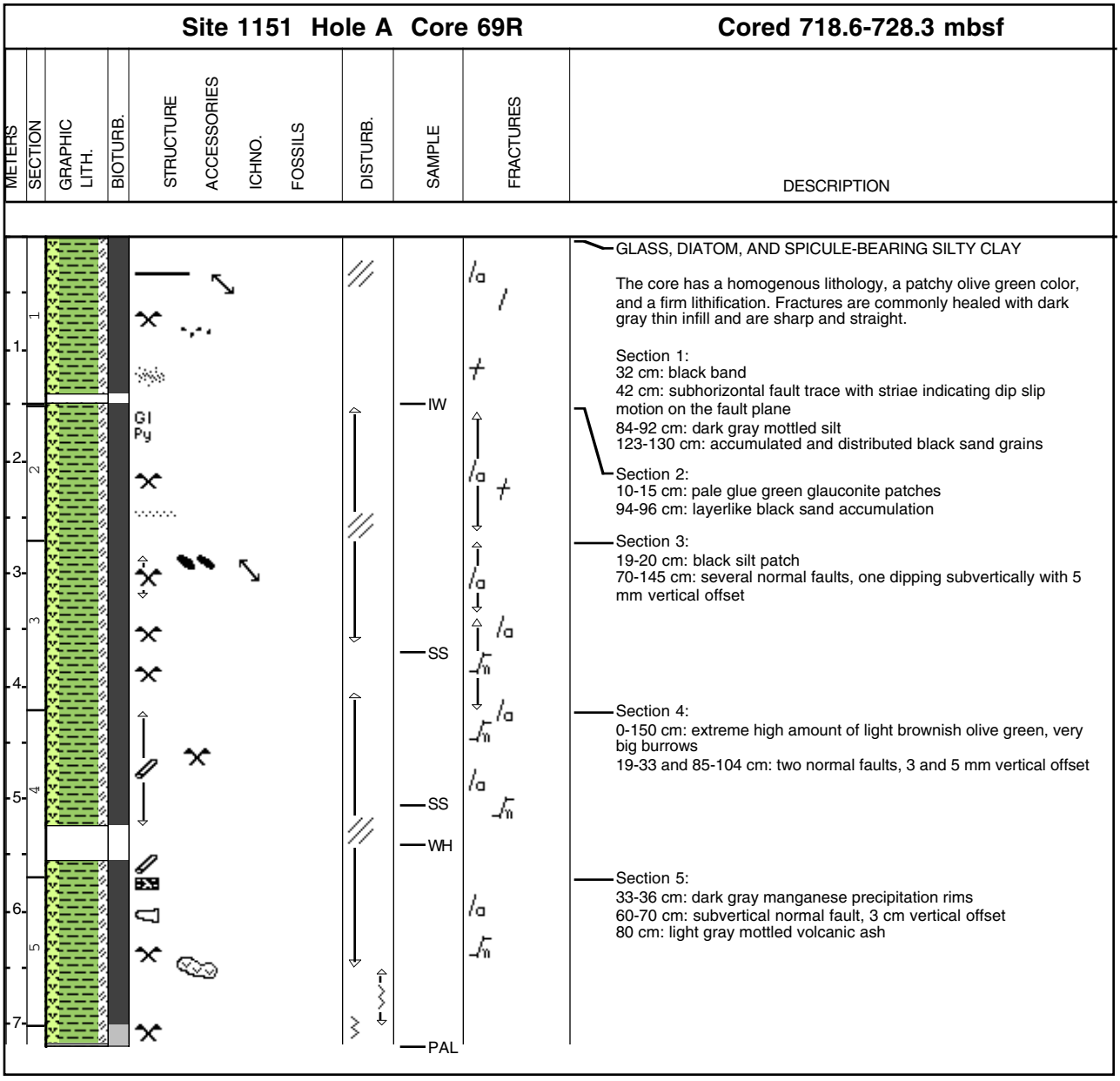
DIATOM AND NANNOFOSSIL-BEARING SILTY CLAY
The core has a homogenous lithology, an olive green color, and a firm lithification. Sponge spicules occur throughout the core.
Section 1:
3-6 cm: dark gray silt accumulation
56-58 cm: silt patch
Section 2:
5-6 cm: small silt patch
70 cm: shell fragments
Section 3:
5-14 cm: light gray very fine-grained ash patches
27 cm: pumice pebble
Section 5:
19-20 cm: dark gray silt layer
55-75 cm: scattered glauconitic silt
135-136 cm: dark silt accumulation
Section 6:
50-80 cm: scattered glauconite grain
Section 7:
glauconite scattered throughout section.
40-60 cm: dark gray silt
54 cm: shell fragment

Core Photo


Site 1151 Hole A Core 69R
Cored 718.6-728.3 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
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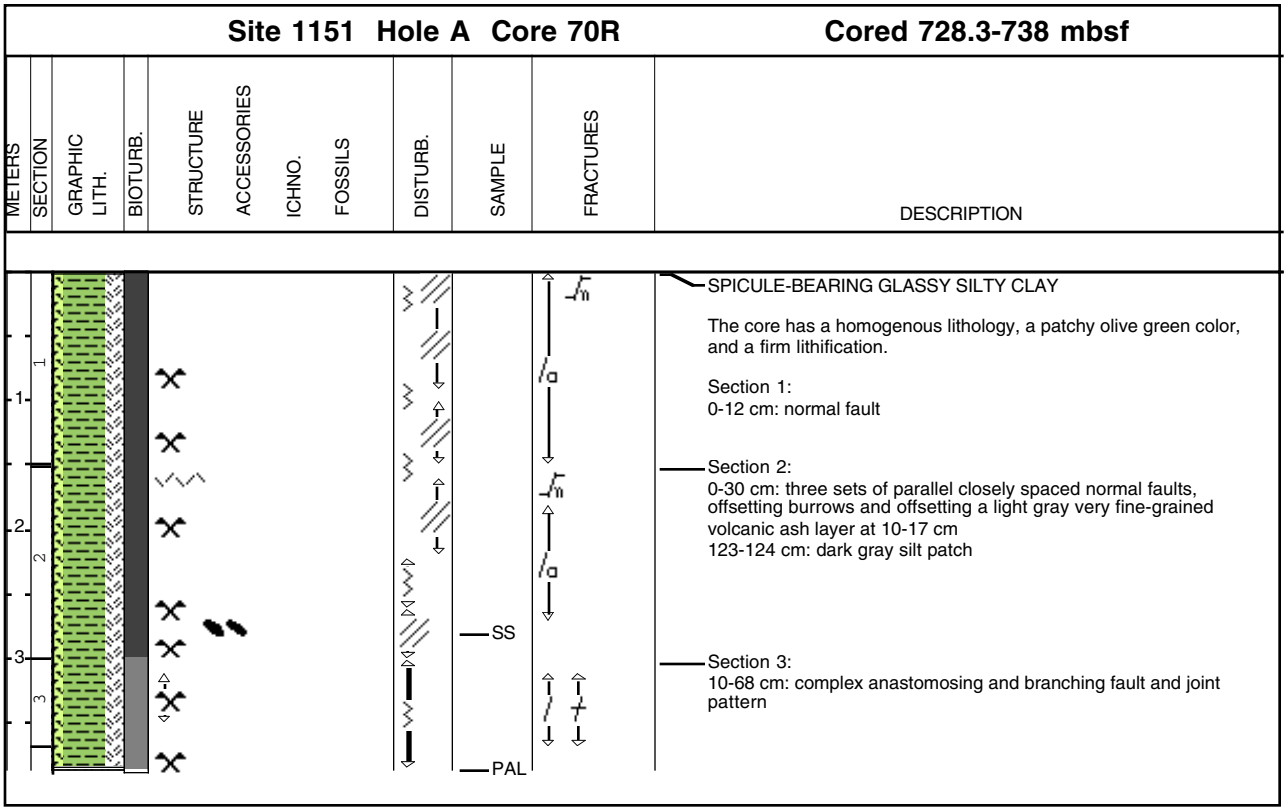
GLASS, DIATOM, AND SPICULE-BEARING SILTY CLAY
The core has a homogenous lithology, a patchy olive green color, and a firm lithification. Fractures are commonly healed with dark gray thin infill and are sharp and straight.
Section 1:
32 cm: black band
42 cm: subhorizontal fault trace with striae indicating dip slip motion on the fault plane
84-92 cm: dark gray mottled silt
123-130 cm: accumulated and distributed black sand grains
Section 2:
10-15 cm: pale glue green glauconite patches
94-96 cm: layerlike black sand accumulation
Section 3:
19-20 cm: black silt patch
70-145 cm: several normal faults, one dipping subvertically with 5 mm vertical offset
Section 4:
0-150 cm: extreme high amount of light brownish olive green, very big burrows
19-33 and 85-104 cm: two normal faults, 3 and 5 mm vertical offset
Section 5:
33-36 cm: dark gray manganese precipitation rims
60-70 cm: subvertical normal fault, 3 cm vertical offset
80 cm: light gray mottled volcanic ash

Core Photo


Site 1151 Hole A Core 70R
Cored 728.3-738 mbsf
METERS
SECTION
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STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
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SAMPLE
FRACTURES
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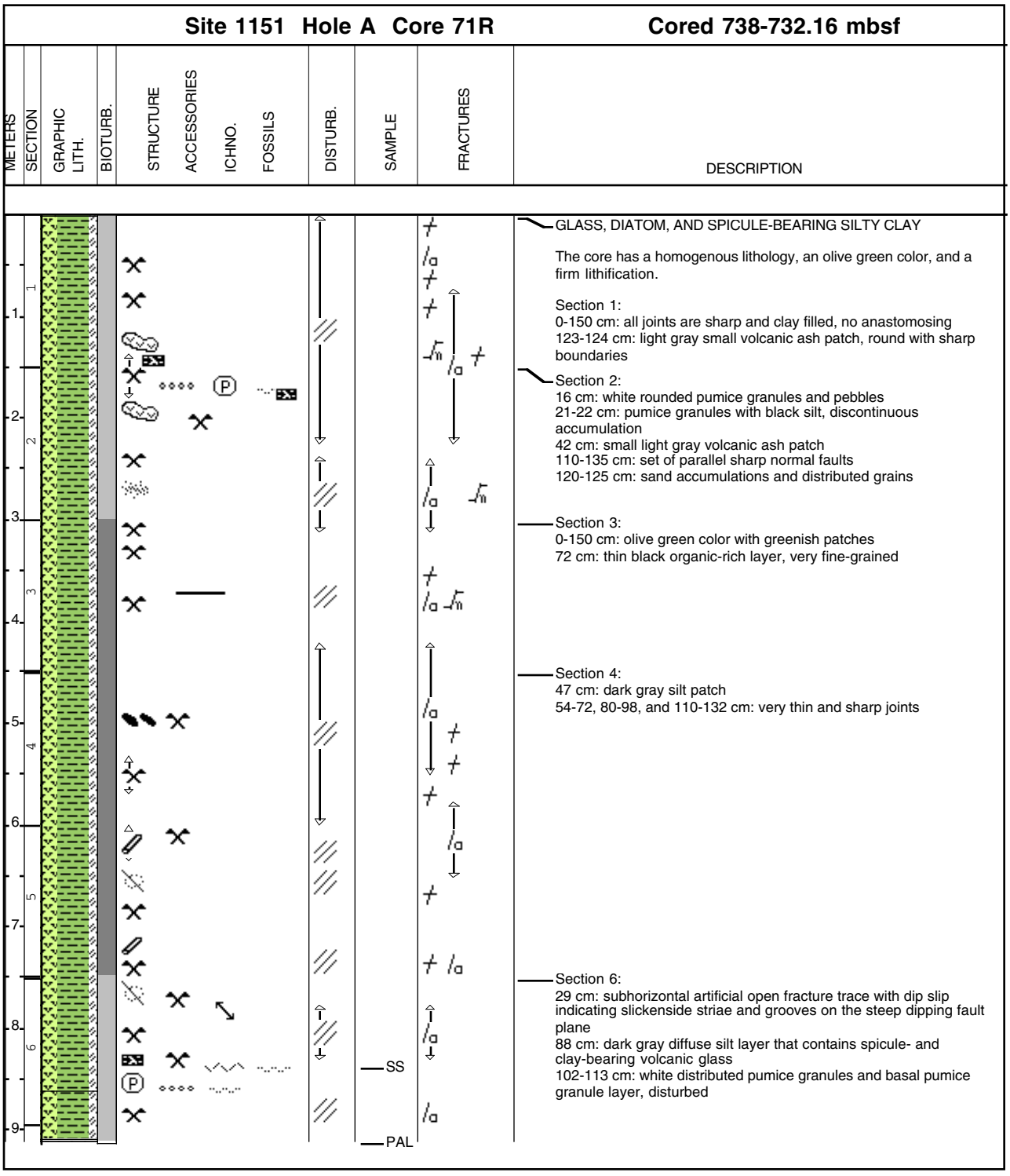
SPICULE-BEARING GLASSY SILTY CLAY
The core has a homogenous lithology, a patchy olive green color, and a firm lithification.
Section 1:
0-12 cm: normal fault
Section 2:
0-30 cm: three sets of parallel closely spaced normal faults, offsetting burrows and offsetting a light gray very fine-grained volcanic ash layer at 10-17 cm
123-124 cm: dark gray silt patch
Section 3:
10-68 cm: complex anastomosing and branching fault and joint pattern

Core Photo


Site 1151 Hole A Core 71R Cored 738-732.16 mbsf
METERS
SECTION
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STRUCTURE
ACCESSORIES
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SAMPLE
FRACTURES
DESCRIPTION
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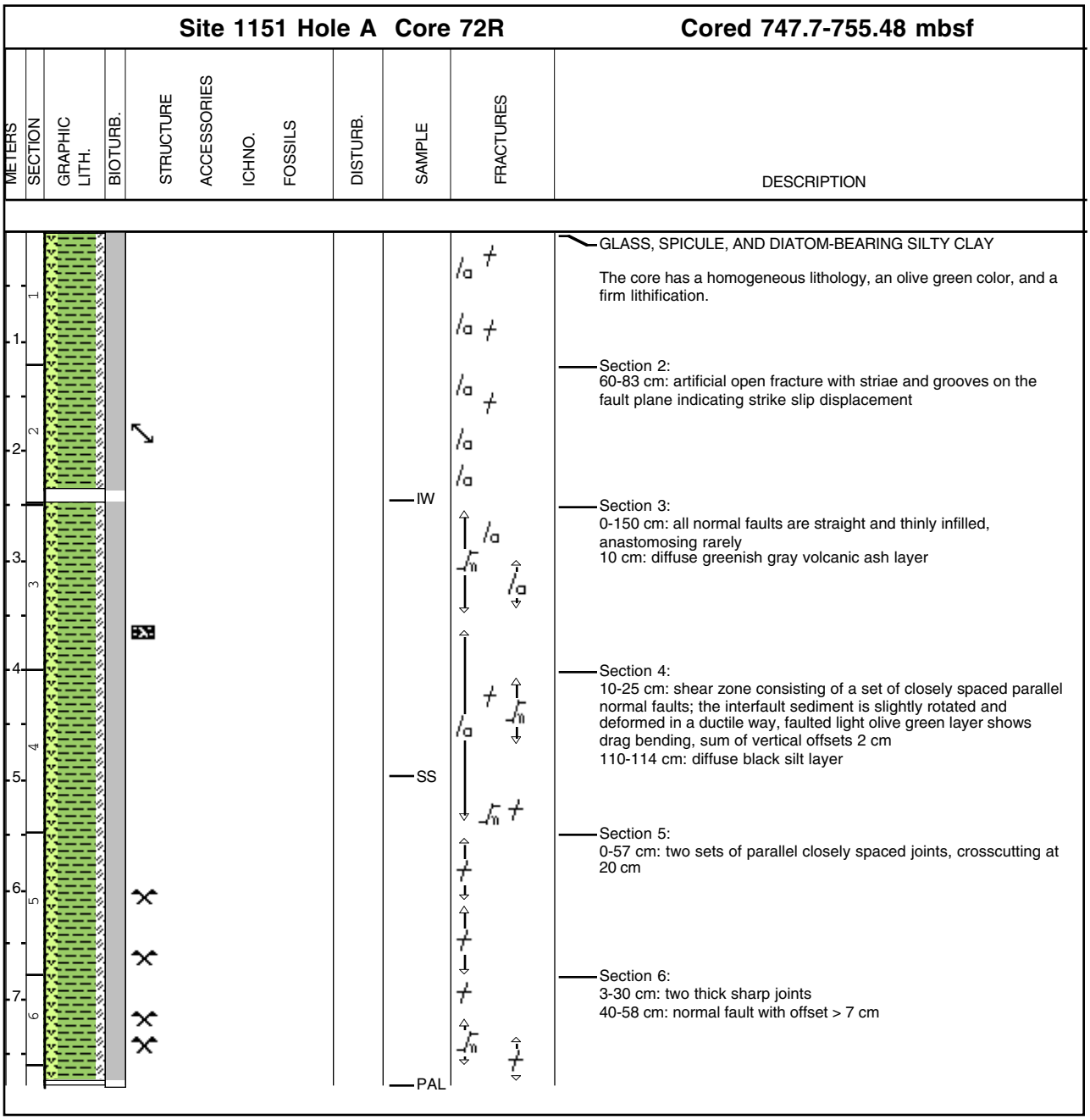
GLASS, DIATOM, AND SPICULE-BEARING SILTY CLAY
The core has a homogenous lithology, an olive green color, and a firm lithification.
Section 1:
0-150 cm: all joints are sharp and clay filled, no anastomosing
123-124 cm: light gray small volcanic ash patch, round with sharp boundaries
Section 2:
16 cm: white rounded pumice granules and pebbles
21-22 cm: pumice granules with black silt, discontinuous accumulation
42 cm: small light gray volcanic ash patch
110-135 cm: set of parallel sharp normal faults
120-125 cm: sand accumulations and distributed grains
Section 3:
0-150 cm: olive green color with greenish patches
72 cm: thin black organic-rich layer, very fine-grained
Section 4:
47 cm: dark gray silt patch
54-72, 80-98, and 110-132 cm: very thin and sharp joints
Section 6:
29 cm: subhorizontal artificial open fracture trace with dip slip indicating slickenside striae and grooves on the steep dipping fault plane
88 cm: dark gray diffuse silt layer that contains spicule- and clay-bearing volcanic glass
102-113 cm: white distributed pumice granules and basal pumice granule layer, disturbed

Core Photo


Site 1151 Hole A Core 72R
Cored 747.7-755.48 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
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FOSSILS
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SAMPLE
FRACTURES
DESCRIPTION
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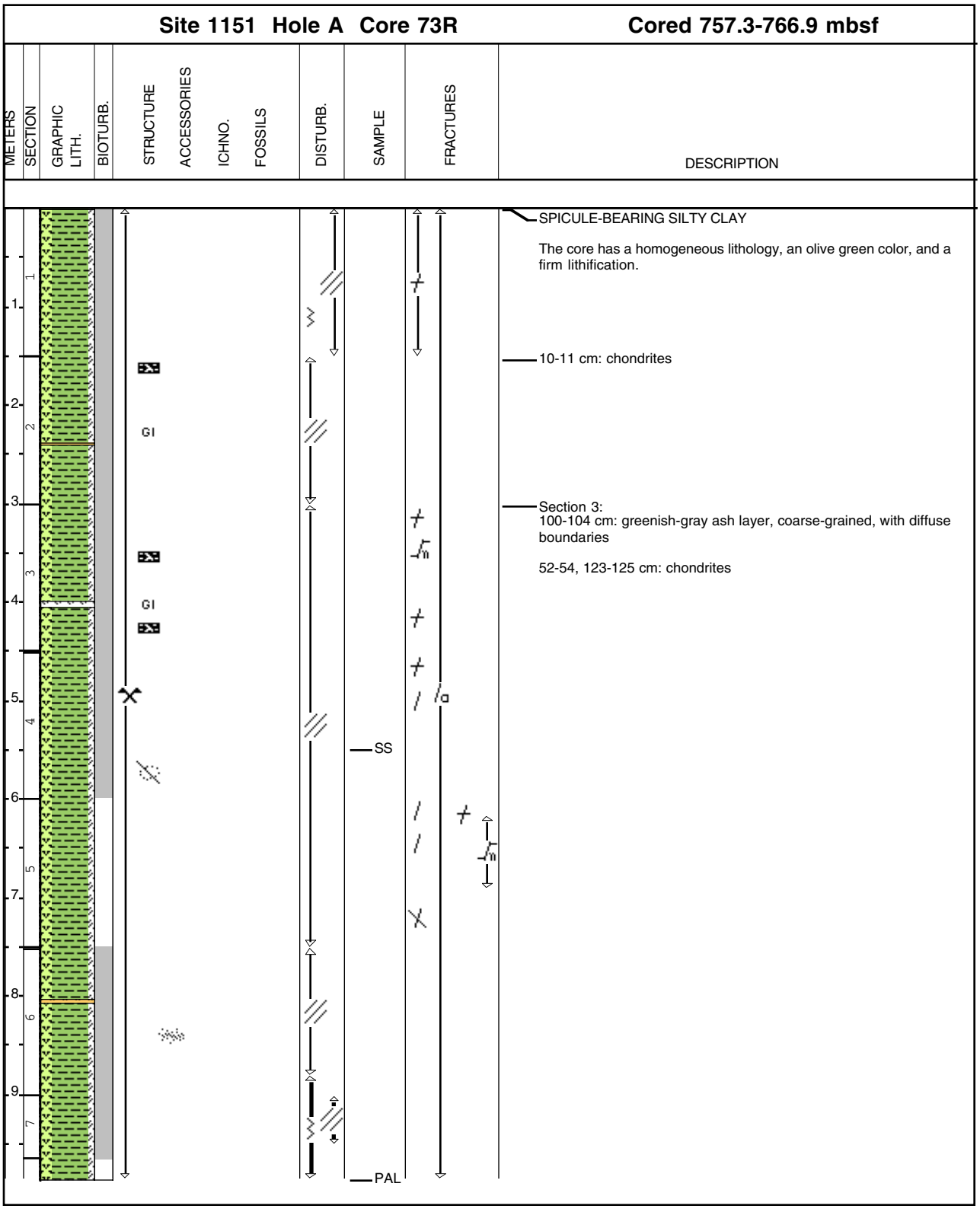
GLASS, SPICULE, AND DIATOM-BEARING SILTY CLAY
The core has a homogeneous lithology, an olive green color, and a firm lithification.
Section 2:
60-83 cm: artificial open fracture with striae and grooves on the fault plane indicating strike slip displacement
Section 3:
0-150 cm: all normal faults are straight and thinly infilled, anastomosing rarely
10 cm: diffuse greenish gray volcanic ash layer
Section 4:
10-25 cm: shear zone consisting of a set of closely spaced parallel normal faults; the interfault sediment is slightly rotated and deformed in a ductile way, faulted light olive green layer shows drag bending, sum of vertical offsets 2 cm
110-114 cm: diffuse black silt layer
Section 5:
0-57 cm: two sets of parallel closely spaced joints, crosscutting at 20 cm
Section 6:
3-30 cm: two thick sharp joints
40-58 cm: normal fault with offset > 7 cm

Core Photo


Site 1151 Hole A Core 73R
Cored 757.3-766.9 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
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FOSSILS
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SAMPLE
FRACTURES
DESCRIPTION
SPICULE-BEARING SILTY CLAY
The core has a homogeneous lithology, an olive green color, and a firm lithification.
10-11 cm: chondrites
Section 3:
100-104 cm: greenish-gray ash layer, coarse-grained, with diffuse boundaries
52-54, 123-125 cm: chondrites
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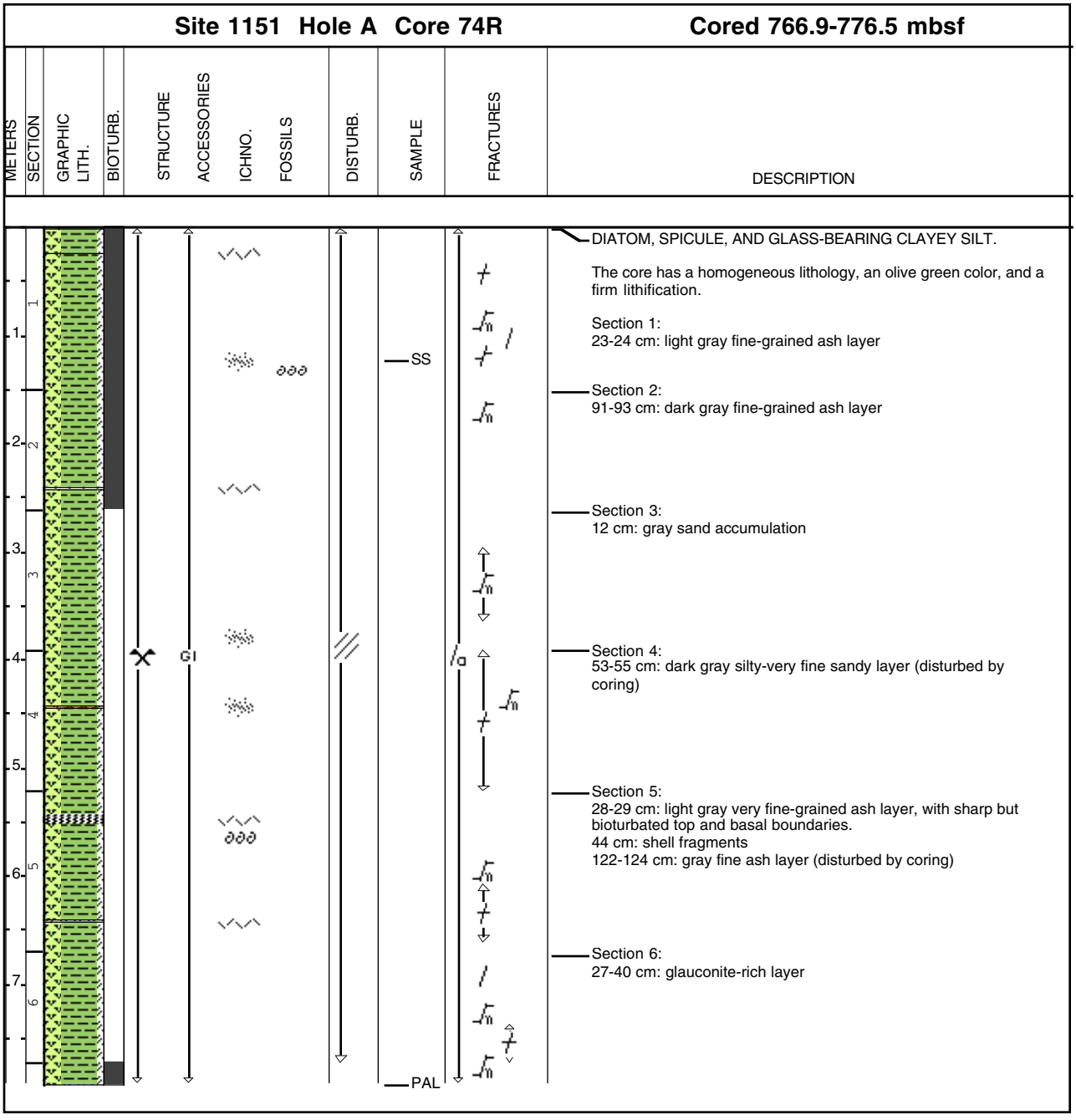
Core Photo


Site 1151 Hole A Core 74R
Cored 766.9-776.5 mbsf
METERS
SECTION
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SAMPLE
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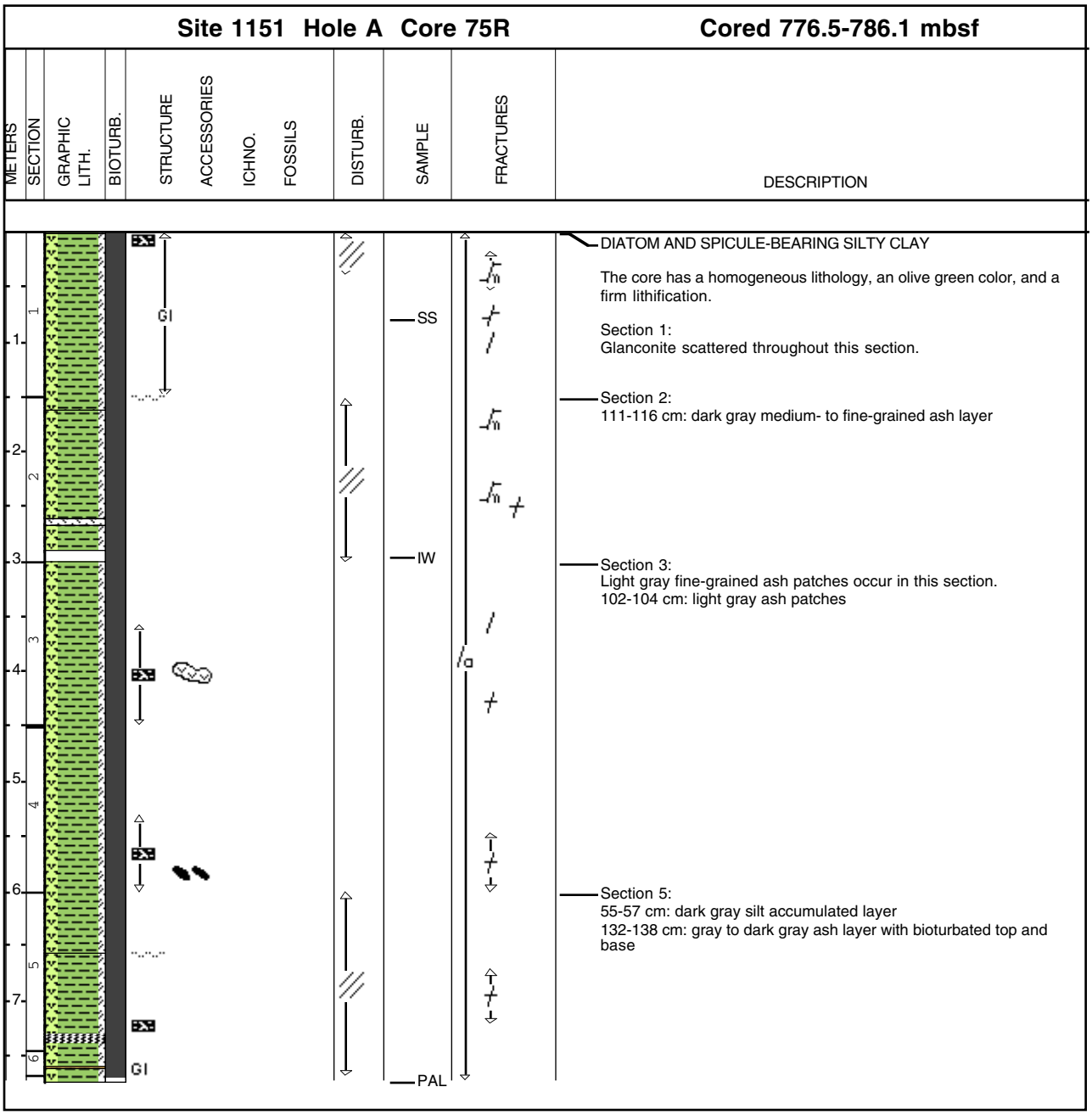
DIATOM, SPICULE, AND GLASS-BEARING CLAYEY SILT.
The core has a homogeneous lithology, an olive green color, and a firm lithification.
Section 1:
23-24 cm: light gray fine-grained ash layer
Section 2:
91-93 cm: dark gray fine-grained ash layer
Section 3:
12 cm: gray sand accumulation
Section 4:
53-55 cm: dark gray silty-very fine sandy layer (disturbed by coring)
Section 5:
28-29 cm: light gray very fine-grained ash layer, with sharp but bioturbated top and basal boundaries.
44 cm: shell fragments
122-124 cm: gray fine ash layer (disturbed by coring)
Section 6:
27-40 cm: glauconite-rich layer

Core Photo


Site 1151 Hole A Core 75R
Cored 776.5-786.1 mbsf
METERS
SECTION
GRAPHIC LITH.
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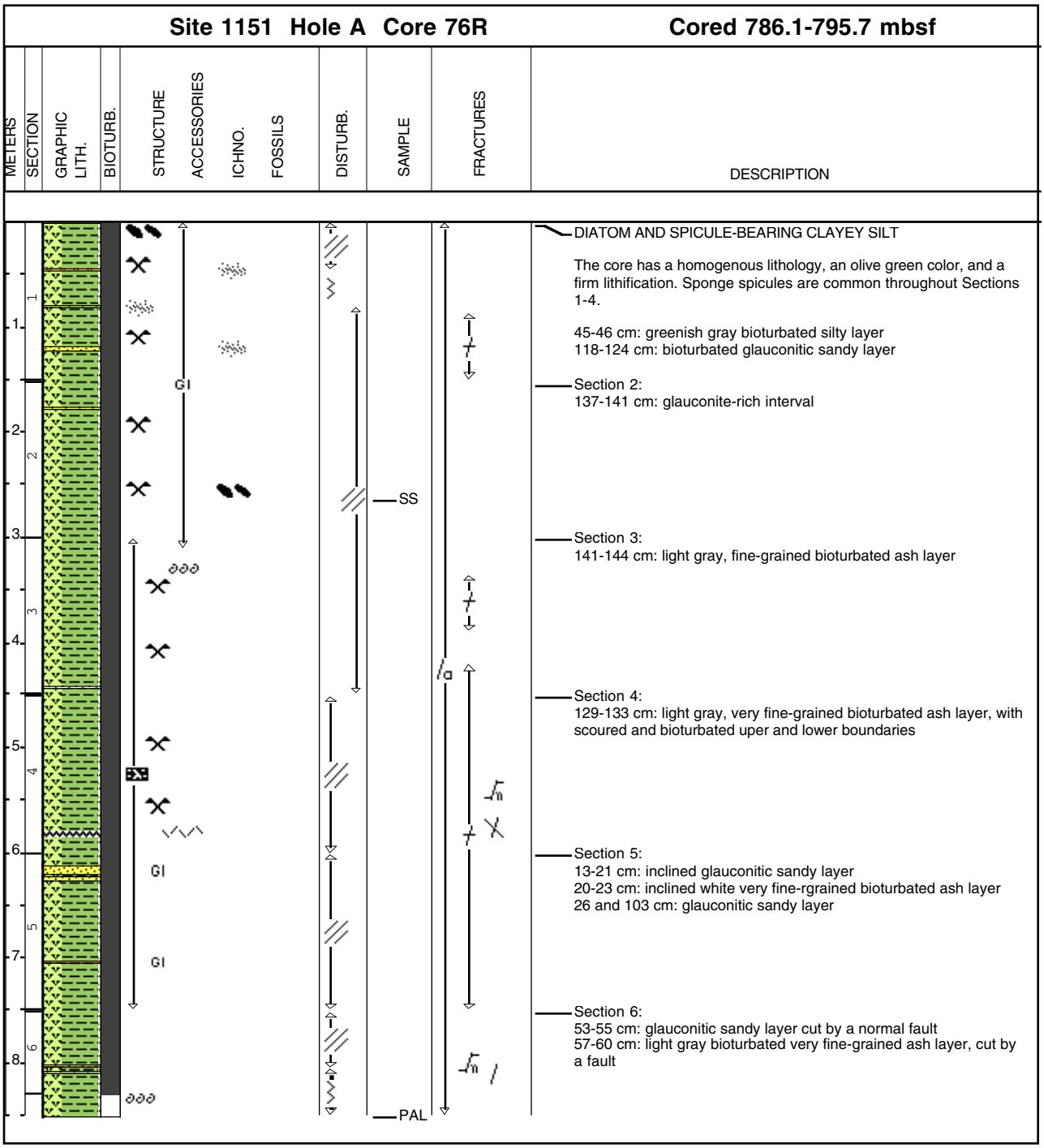
PAL
DIATOM AND SPICULE-BEARING SILTY CLAY
The core has a homogeneous lithology, an olive green color, and a firm lithification.
Section 1:
Glanconite scattered throughout this section.
Section 2:
111-116 cm: dark gray medium- to fine-grained ash layer
Section 3:
Light gray fine-grained ash patches occur in this section.
102-104 cm: light gray ash patches
Section 5:
55-57 cm: dark gray silt accumulated layer
132-138 cm: gray to dark gray ash layer with bioturbated top and base

Core Photo


Site 1151 Hole A Core 76R
Cored 786.1-795.7 mbsf
METERS
SECTION
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SAMPLE
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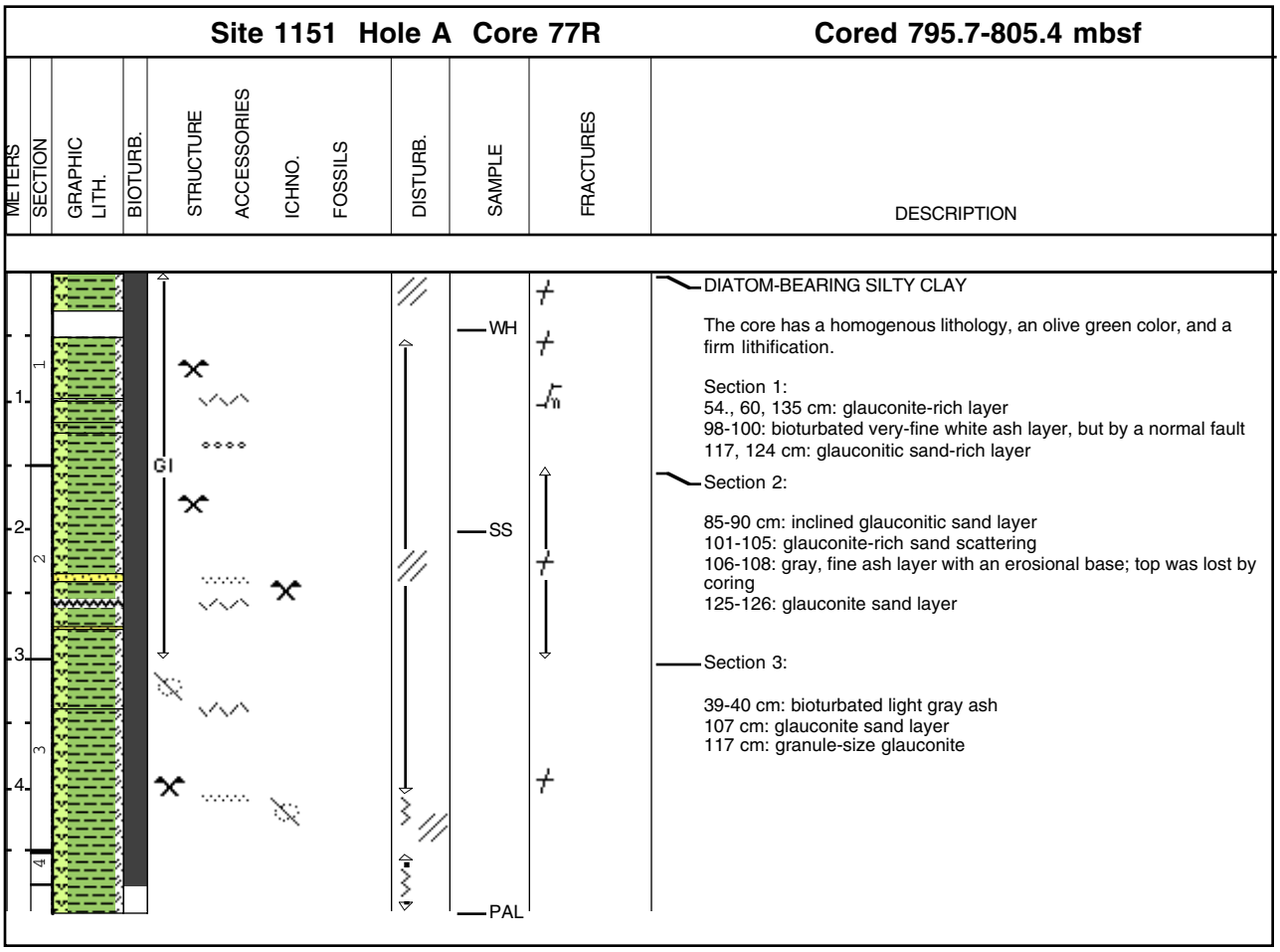
DIATOM AND SPICULE-BEARING CLAYEY SILT
The core has a homogenous lithology, an olive green color, and a firm lithification. Sponge spicules are common throughout Sections 1-4.
45-46 cm: greenish gray bioturbated silty layer
118-124 cm: bioturbated glauconitic sandy layer
Section 2:
137-141 cm: glauconite-rich interval
Section 3:
141-144 cm: light gray, fine-grained bioturbated ash layer
Section 4:
129-133 cm: light gray, very fine-grained bioturbated ash layer, with scoured and bioturbated uper and lower boundaries
Section 5:
13-21 cm: inclined glauconitic sandy layer
20-23 cm: inclined white very fine-rgrained bioturbated ash layer
26 and 103 cm: glauconitic sandy layer
Section 6:
53-55 cm: glauconitic sandy layer cut by a normal fault
57-60 cm: light gray bioturbated very fine-grained ash layer, cut by a fault

Core Photo


Site 1151 Hole A Core 77R
Cored 795.7-805.4 mbsf
METERS
SECTION
GRAPHIC LITH.
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ACCESSORIES
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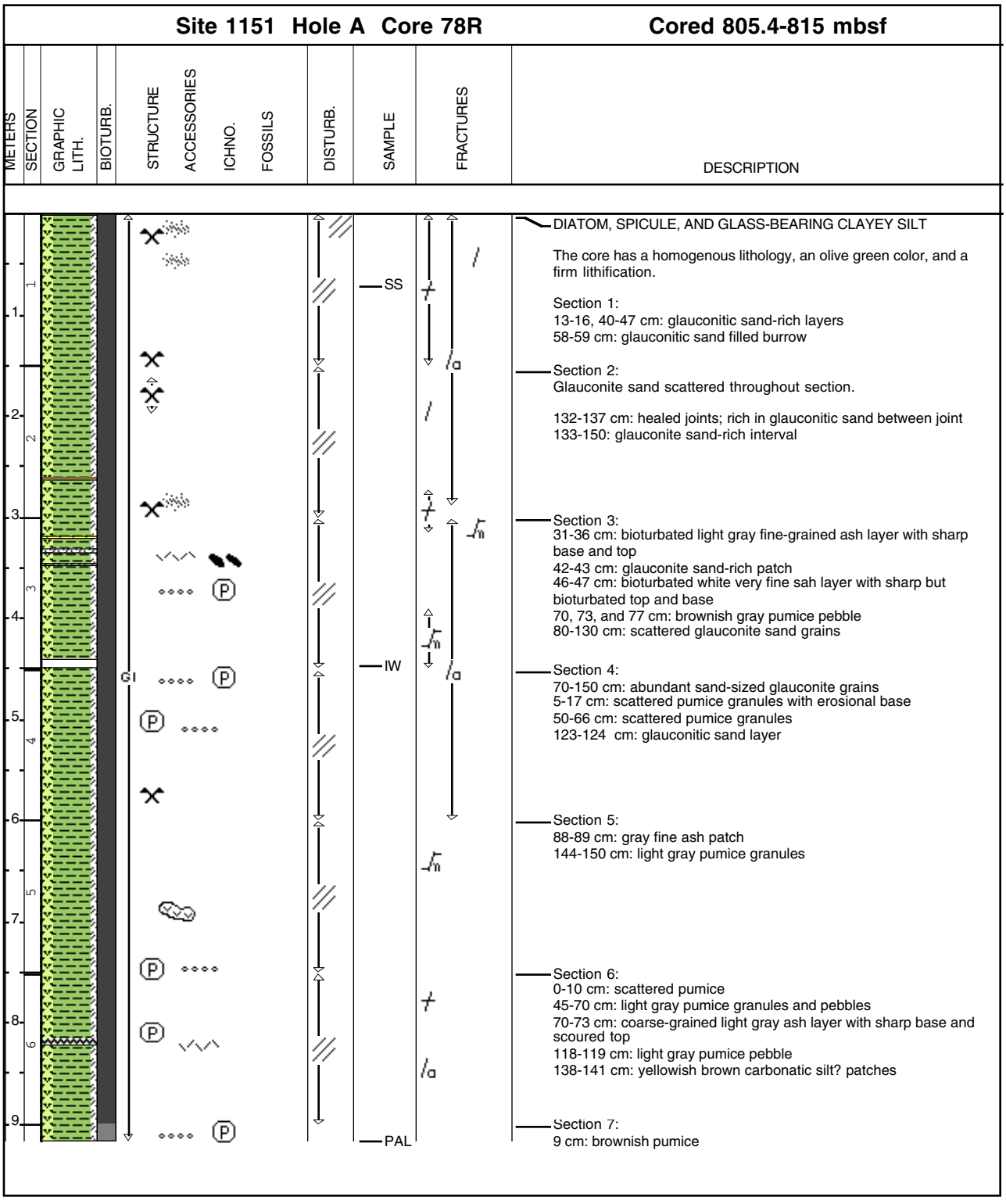
DIATOM-BEARING SILTY CLAY
The core has a homogenous lithology, an olive green color, and a firm lithification.
Section 1:
54., 60, 135 cm: glauconite-rich layer
98-100: bioturbated very-fine white ash layer, but by a normal fault
117, 124 cm: glauconitic sand-rich layer
Section 2:
85-90 cm: inclined glauconitic sand layer
101-105: glauconite-rich sand scattering
106-108: gray, fine ash layer with an erosional base; top was lost by coring
125-126: glauconite sand layer
Section 3:
39-40 cm: bioturbated light gray ash
107 cm: glauconite sand layer
117 cm: granule-size glauconite

Core Photo


Site 1151 Hole A Core 78R
Cored 805.4-815 mbsf
METERS
SECTION
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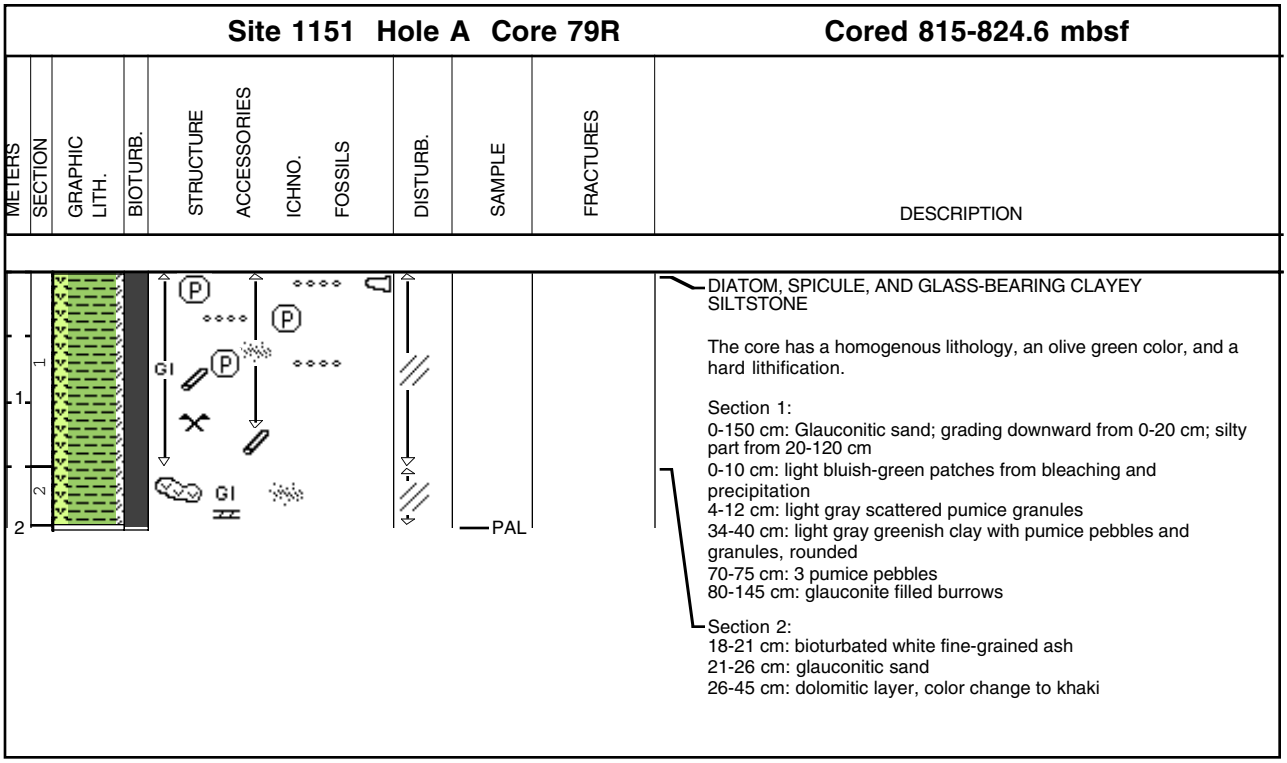
DIATOM, SPICULE, AND GLASS-BEARING CLAYEY SILT
The core has a homogenous lithology, an olive green color, and a firm lithification.
Section 1:
13-16, 40-47 cm: glauconitic sand-rich layers
58-59 cm: glauconitic sand filled burrow
Section 2:
Glauconite sand scattered throughout section.
132-137 cm: healed joints; rich in glauconitic sand between joint
133-150: glauconite sand-rich interval
Section 3:
31-36 cm: bioturbated light gray fine-grained ash layer with sharp base and top
42-43 cm: glauconite sand-rich patch
46-47 cm: bioturbated white very fine sah layer with sharp but bioturbated top and base
70, 73, and 77 cm: brownish gray pumice pebble
80-130 cm: scattered glauconite sand grains
Section 4:
70-150 cm: abundant sand-sized glauconite grains
5-17 cm: scattered pumice granules with erosional base
50-66 cm: scattered pumice granules
123-124 cm: glauconitic sand layer
Section 5:
88-89 cm: gray fine ash patch
144-150 cm: light gray pumice granules
Section 6:
0-10 cm: scattered pumice
45-70 cm: light gray pumice granules and pebbles
70-73 cm: coarse-grained light gray ash layer with sharp base and scoured top
118-119 cm: light gray pumice pebble
138-141 cm: yellowish brown carbonatic silt? patches
Section 7:
9 cm: brownish pumice

Core Photo


Site 1151 Hole A Core 79R
Cored 815-824.6 mbsf
METERS
SECTION
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STRUCTURE
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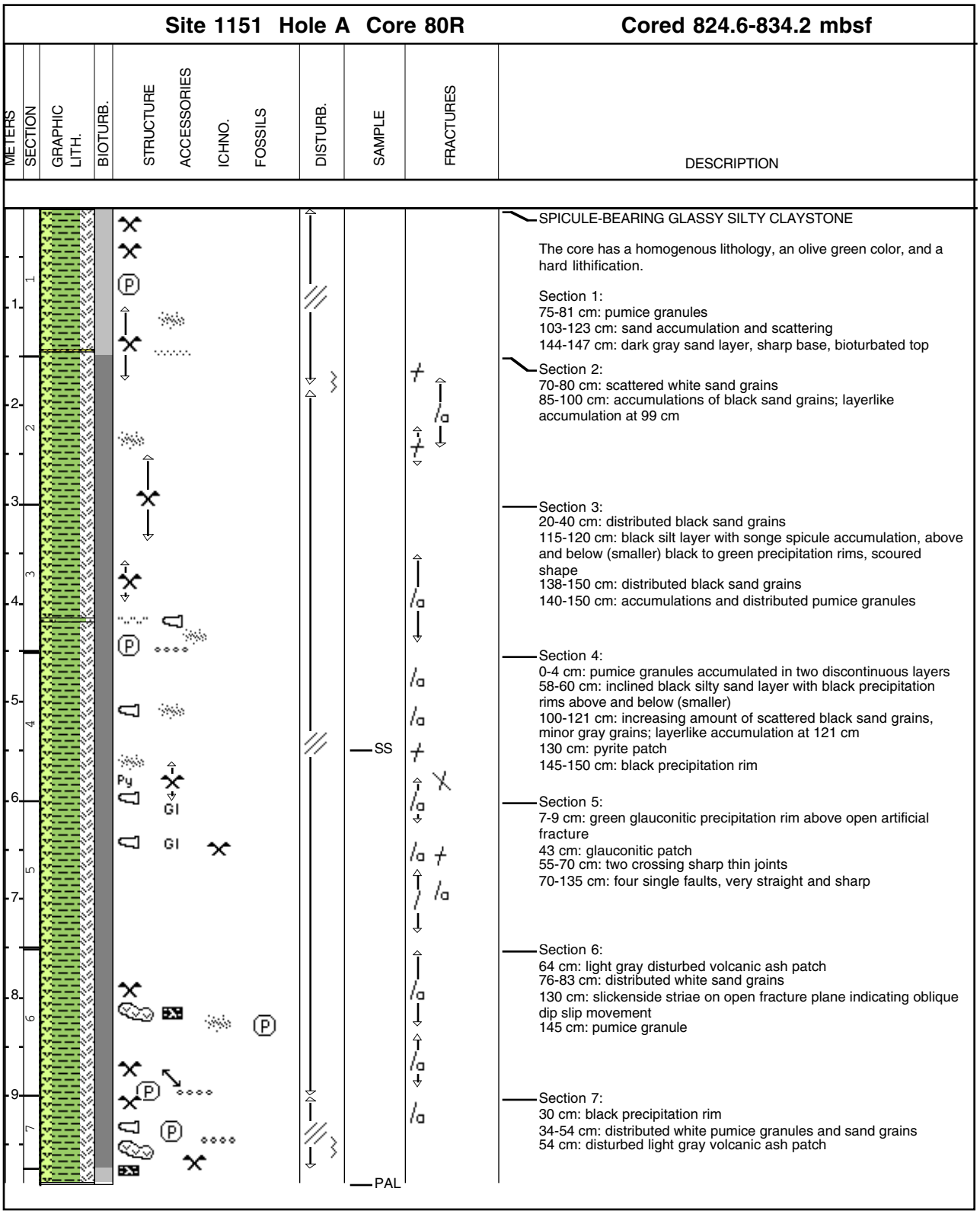
DIATOM, SPICULE, AND GLASS-BEARING CLAYEY SILTSTONE
The core has a homogenous lithology, an olive green color, and a hard lithification.
Section 1:
0-150 cm: Glauconitic sand; grading downward from 0-20 cm; silty part from 20-120 cm
0-10 cm: light bluish-green patches from bleaching and precipitation
4-12 cm: light gray scattered pumice granules
34-40 cm: light gray greenish clay with pumice pebbles and granules, rounded
70-75 cm: 3 pumice pebbles
80-145 cm: glauconite filled burrows
Section 2:
18-21 cm: bioturbated white fine-grained ash
21-26 cm: glauconitic sand
26-45 cm: dolomitic layer, color change to khaki

Core Photo


Site 1151 Hole A Core 80R
Cored 824.6-834.2 mbsf
METERS
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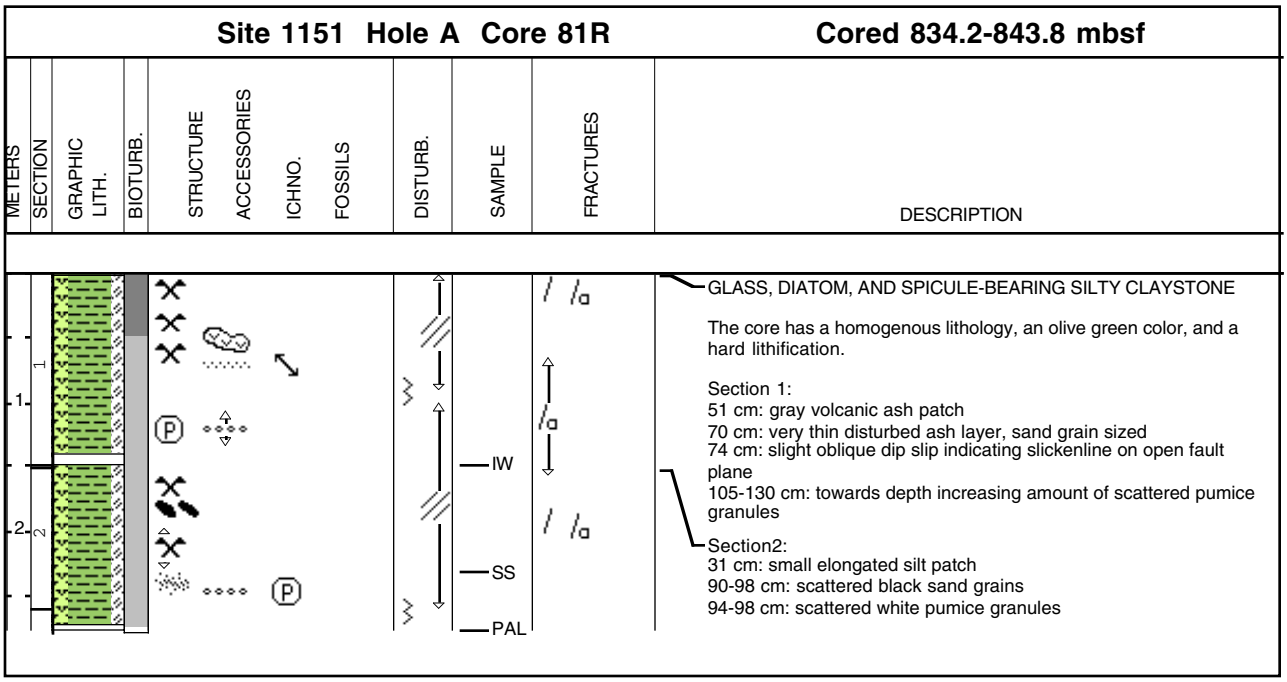
SPICULE-BEARING GLASSY SILTY CLAYSTONE
The core has a homogenous lithology, an olive green color, and a hard lithification.
Section 1:
75-81 cm: pumice granules
103-123 cm: sand accumulation and scattering
144-147 cm: dark gray sand layer, sharp base, bioturbated top
Section 2:
70-80 cm: scattered white sand grains
85-100 cm: accumulations of black sand grains; layerlike accumulation at 99 cm
Section 3:
20-40 cm: distributed black sand grains
115-120 cm: black silt layer with songe spicule accumulation, above and below (smaller) black to green precipitation rims, scoured shape
138-150 cm: distributed black sand grains
140-150 cm: accumulations and distributed pumice granules
Section 4:
0-4 cm: pumice granules accumulated in two discontinuous layers
58-60 cm: inclined black silty sand layer with black precipitation rims above and below (smaller)
100-121 cm: increasing amount of scattered black sand grains, minor gray grains; layerlike accumulation at 121 cm
130 cm: pyrite patch
145-150 cm: black precipitation rim
Section 5:
7-9 cm: green glauconitic precipitation rim above open artificial fracture
43 cm: glauconitic patch
55-70 cm: two crossing sharp thin joints
70-135 cm: four single faults, very straight and sharp
Section 6:
64 cm: light gray disturbed volcanic ash patch
76-83 cm: distributed white sand grains
130 cm: slickenside striae on open fracture plane indicating oblique dip slip movement
145 cm: pumice granule
Section 7:
30 cm: black precipitation rim
34-54 cm: distributed white pumice granules and sand grains
54 cm: disturbed light gray volcanic ash patch

Core Photo


Site 1151 Hole A Core 81R
Cored 834.2-843.8 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
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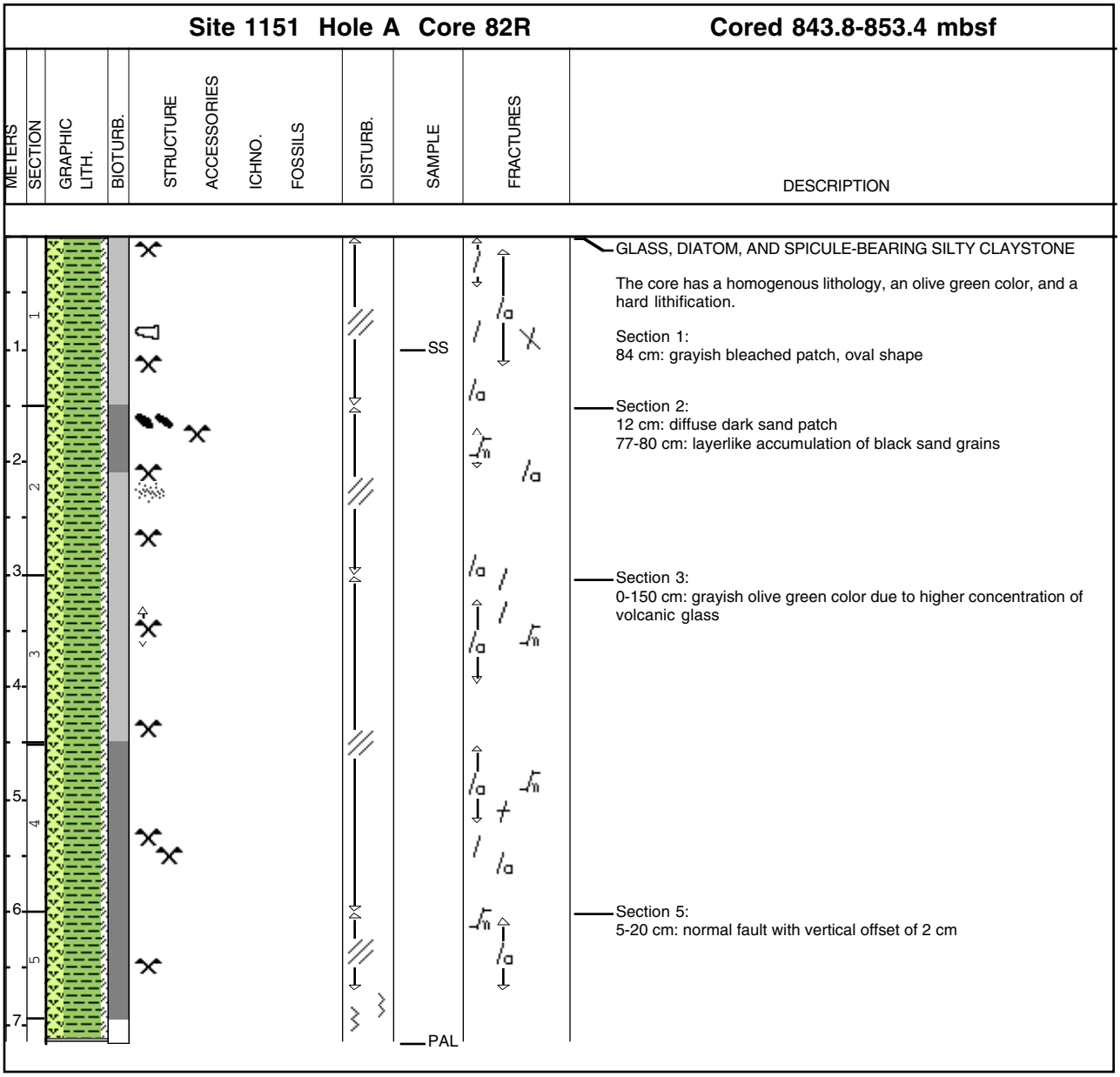
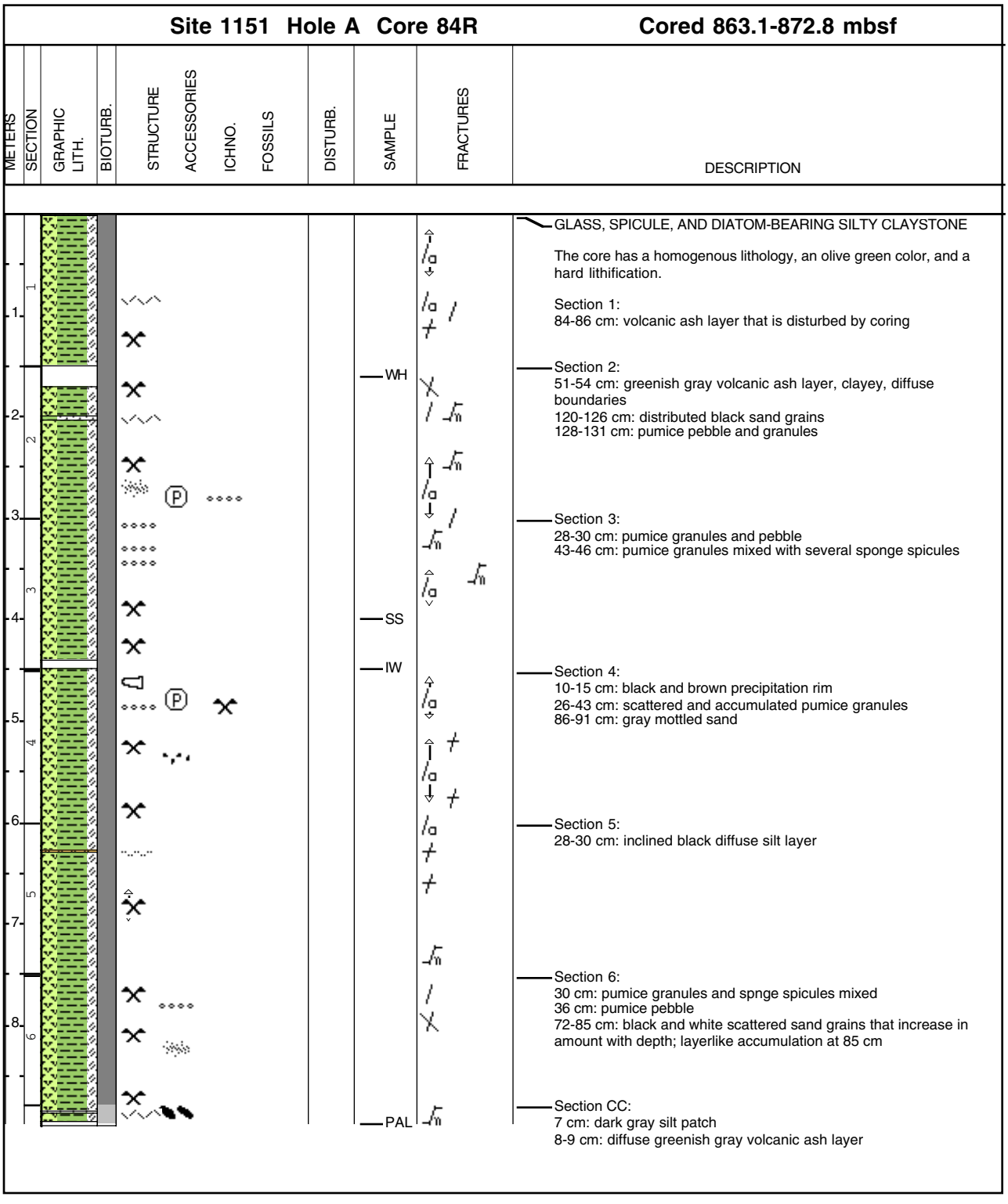
GLASS, DIATOM, AND SPICULE-BEARING SILTY CLAYSTONE
The core has a homogenous lithology, an olive green color, and a hard lithification.
Section 1:
51 cm: gray volcanic ash patch
70 cm: very thin disturbed ash layer, sand grain sized
74 cm: slight oblique dip slip indicating slickenline on open fault plane
105-130 cm: towards depth increasing amount of scattered pumice granules
Section2:
31 cm: small elongated silt patch
90-98 cm: scattered black sand grains
94-98 cm: scattered white pumice granules

Core Photo



1151A-83R NO RECOVERY

Core Photo


Site 1151 Hole A Core 84R
Cored 863.1-872.8 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
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FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
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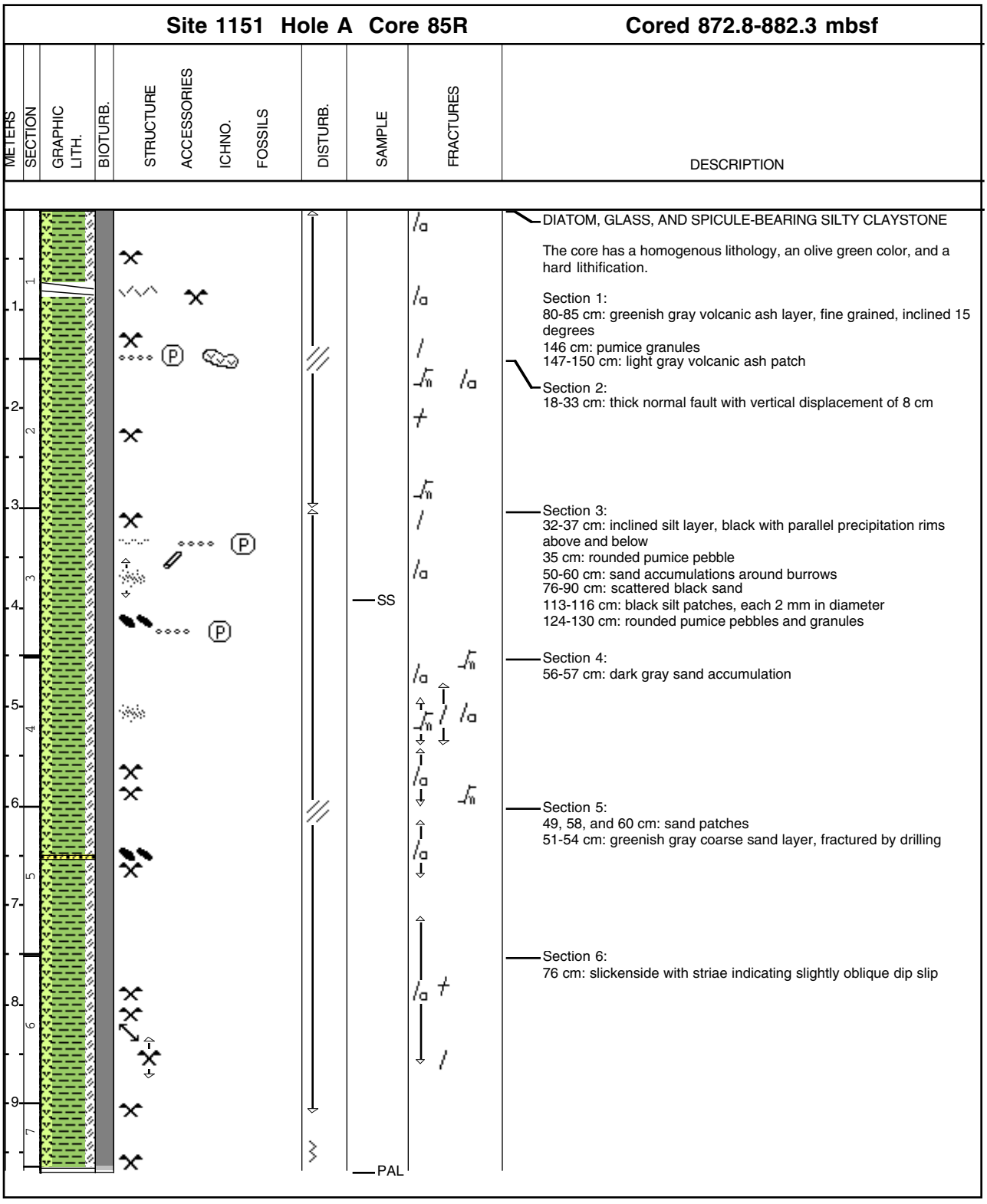
GLASS, SPICULE, AND DIATOM-BEARING SILTY CLAYSTONE
The core has a homogenous lithology, an olive green color, and a hard lithification.
Section 1:
84-86 cm: volcanic ash layer that is disturbed by coring
Section 2:
51-54 cm: greenish gray volcanic ash layer, clayey, diffuse boundaries
120-126 cm: distributed black sand grains
128-131 cm: pumice pebble and granules
Section 3:
28-30 cm: pumice granules and pebble
43-46 cm: pumice granules mixed with several sponge spicules
Section 4:
10-15 cm: black and brown precipitation rim
26-43 cm: scattered and accumulated pumice granules
86-91 cm: gray mottled sand
Section 5:
28-30 cm: inclined black diffuse silt layer
Section 6:
30 cm: pumice granules and spnge spicules mixed
36 cm: pumice pebble
72-85 cm: black and white scattered sand grains that increase in amount with depth; layerlike accumulation at 85 cm
Section CC:
7 cm: dark gray silt patch
8-9 cm: diffuse greenish gray volcanic ash layer

Core Photo


Site 1151 Hole A Core 85R
Cored 872.8-882.3 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
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SAMPLE
FRACTURES
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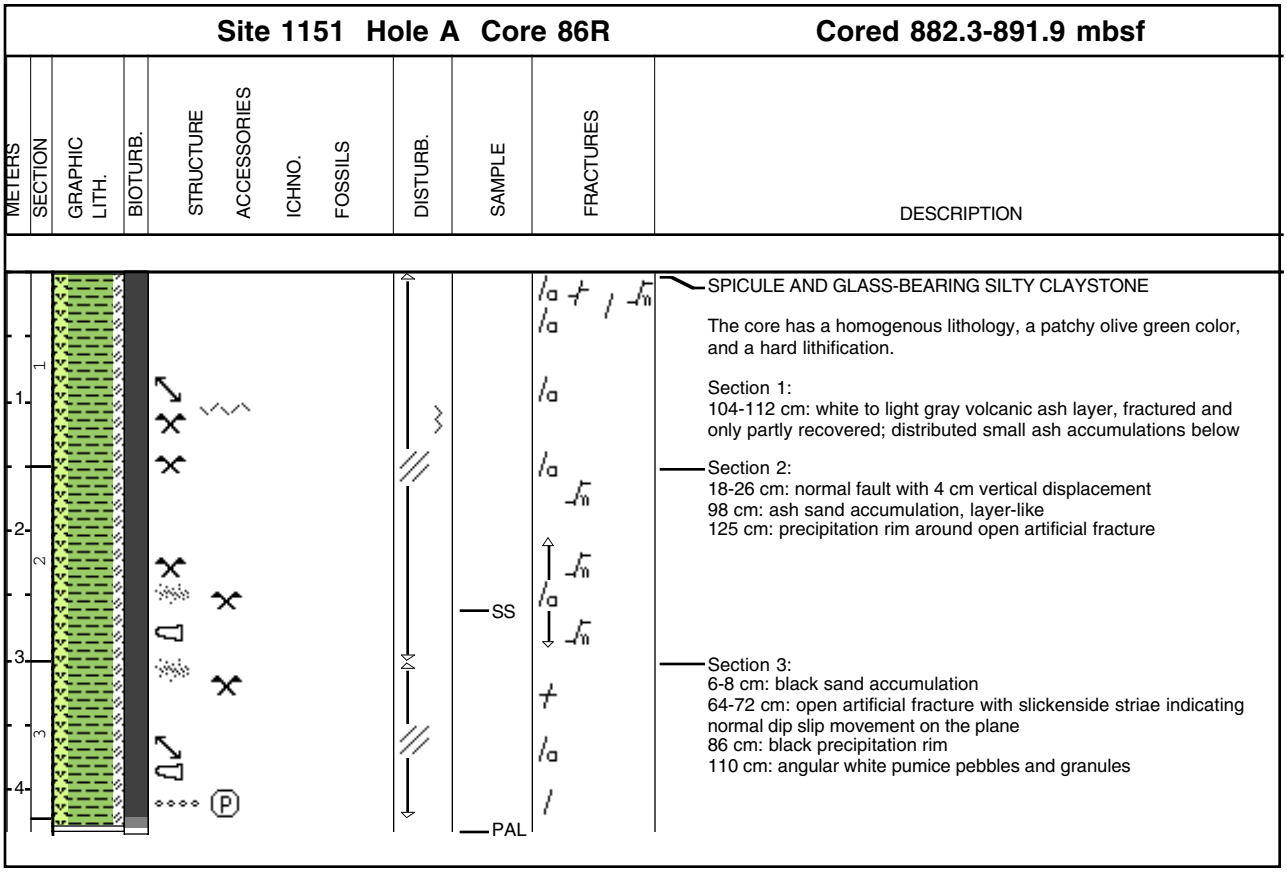
DIATOM, GLASS, AND SPICULE-BEARING SILTY CLAYSTONE
The core has a homogenous lithology, an olive green color, and a hard lithification.
Section 1:
80-85 cm: greenish gray volcanic ash layer, fine grained, inclined 15 degrees
146 cm: pumice granules
147-150 cm: light gray volcanic ash patch
Section 2:
18-33 cm: thick normal fault with vertical displacement of 8 cm
Section 3:
32-37 cm: inclined silt layer, black with parallel precipitation rims above and below
35 cm: rounded pumice pebble
50-60 cm: sand accumulations around burrows
76-90 cm: scattered black sand
113-116 cm: black silt patches, each 2 mm in diameter
124-130 cm: rounded pumice pebbles and granules
Section 4:
56-57 cm: dark gray sand accumulation
Section 5:
49, 58, and 60 cm: sand patches
51-54 cm: greenish gray coarse sand layer, fractured by drilling
Section 6:
76 cm: slickenside with striae indicating slightly oblique dip slip

Core Photo


Site 1151 Hole A Core 86R
Cored 882.3-891.9 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
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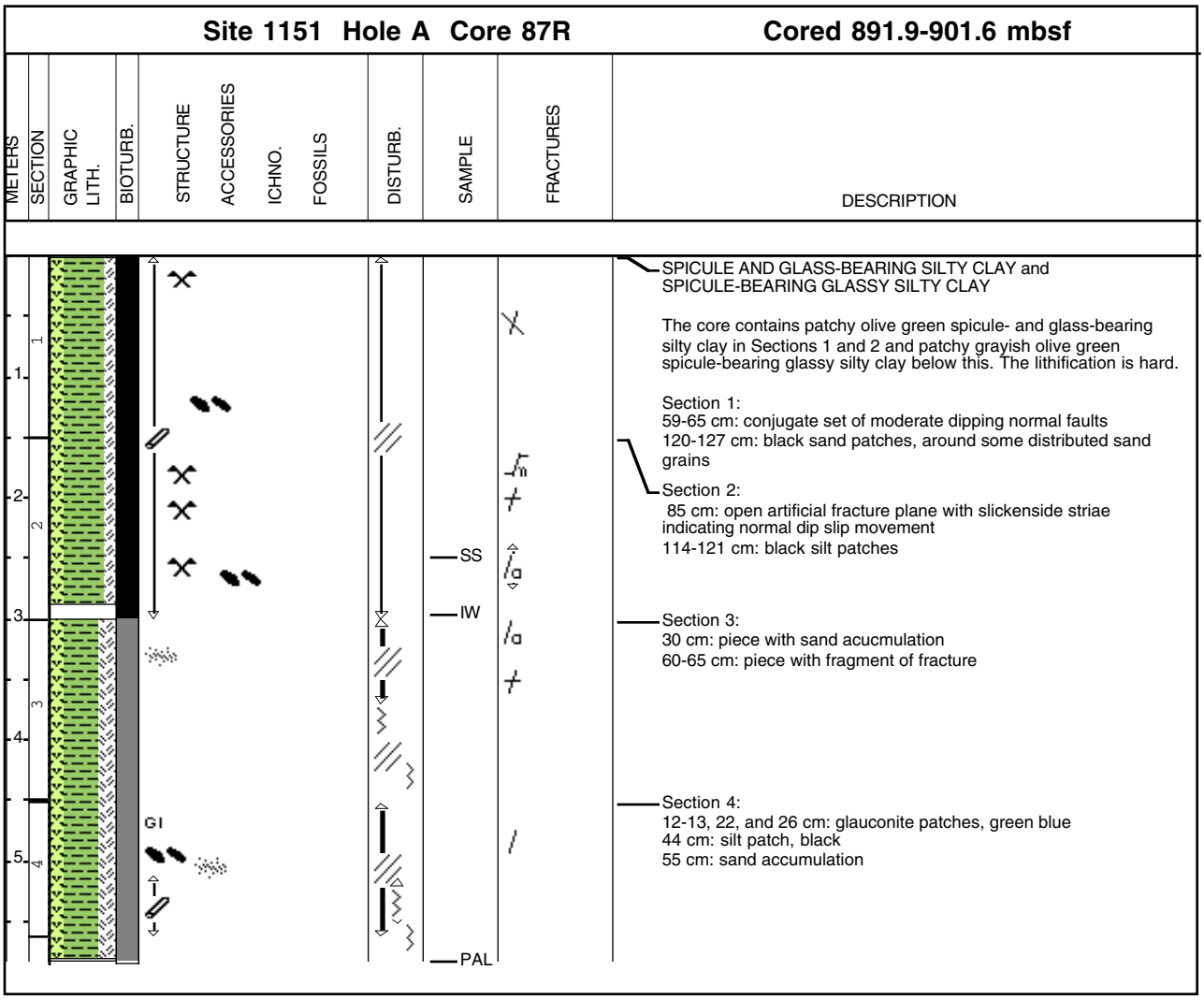
SPICULE AND GLASS-BEARING SILTY CLAYSTONE
The core has a homogenous lithology, a patchy olive green color, and a hard lithification.
Section 1:
104-112 cm: white to light gray volcanic ash layer, fractured and only partly recovered; distributed small ash accumulations below
Section 2:
18-26 cm: normal fault with 4 cm vertical displacement
98 cm: ash sand accumulation, layer-like
125 cm: precipitation rim around open artificial fracture
Section 3:
6-8 cm: black sand accumulation
64-72 cm: open artificial fracture with slickenside striae indicating normal dip slip movement on the plane
86 cm: black precipitation rim
110 cm: angular white pumice pebbles and granules

Core Photo


Site 1151 Hole A Core 87R
Cored 891.9-901.6 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
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ACCESSORIES
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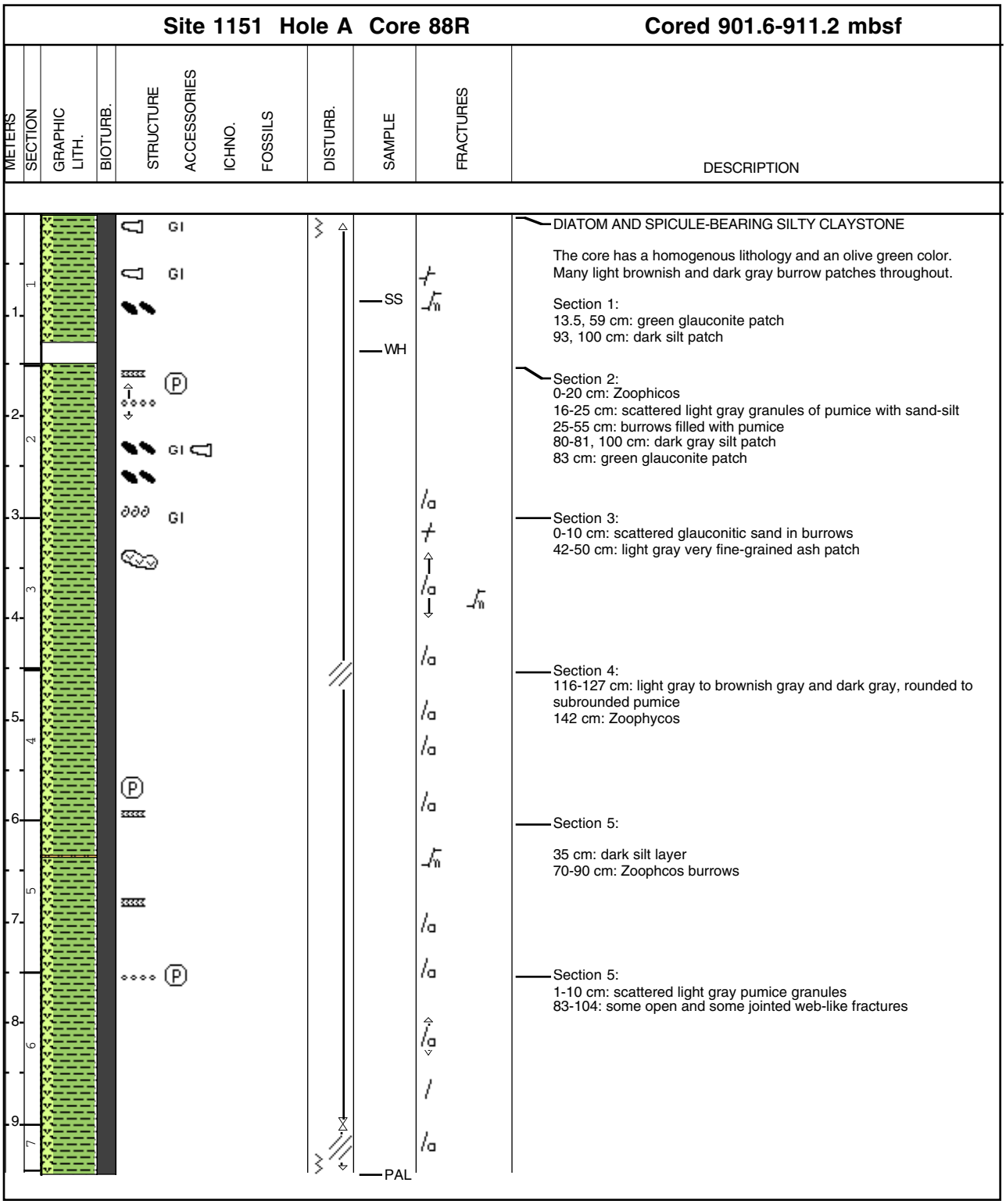
SPICULE AND GLASS-BEARING SILTY CLAY and SPICULE-BEARING GLASSY SILTY CLAY
The core contains patchy olive green spicule- and glass-bearing silty clay in Sections 1 and 2 and patchy grayish olive green spicule-bearing glassy silty clay below this. The lithification is hard.
Section 1:
59-65 cm: conjugate set of moderate dipping normal faults
120-127 cm: black sand patches, around some distributed sand grains
Section 2:
85 cm: open artificial fracture plane with slickenside striae indicating normal dip slip movement
114-121 cm: black silt patches
Section 3:
30 cm: piece with sand acucmulation
60-65 cm: piece with fragment of fracture
Section 4:
12-13, 22, and 26 cm: glauconite patches, green blue
44 cm: silt patch, black
55 cm: sand accumulation

Core Photo


Site 1151 Hole A Core 88R
Cored 901.6-911.2 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
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ACCESSORIES
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SAMPLE
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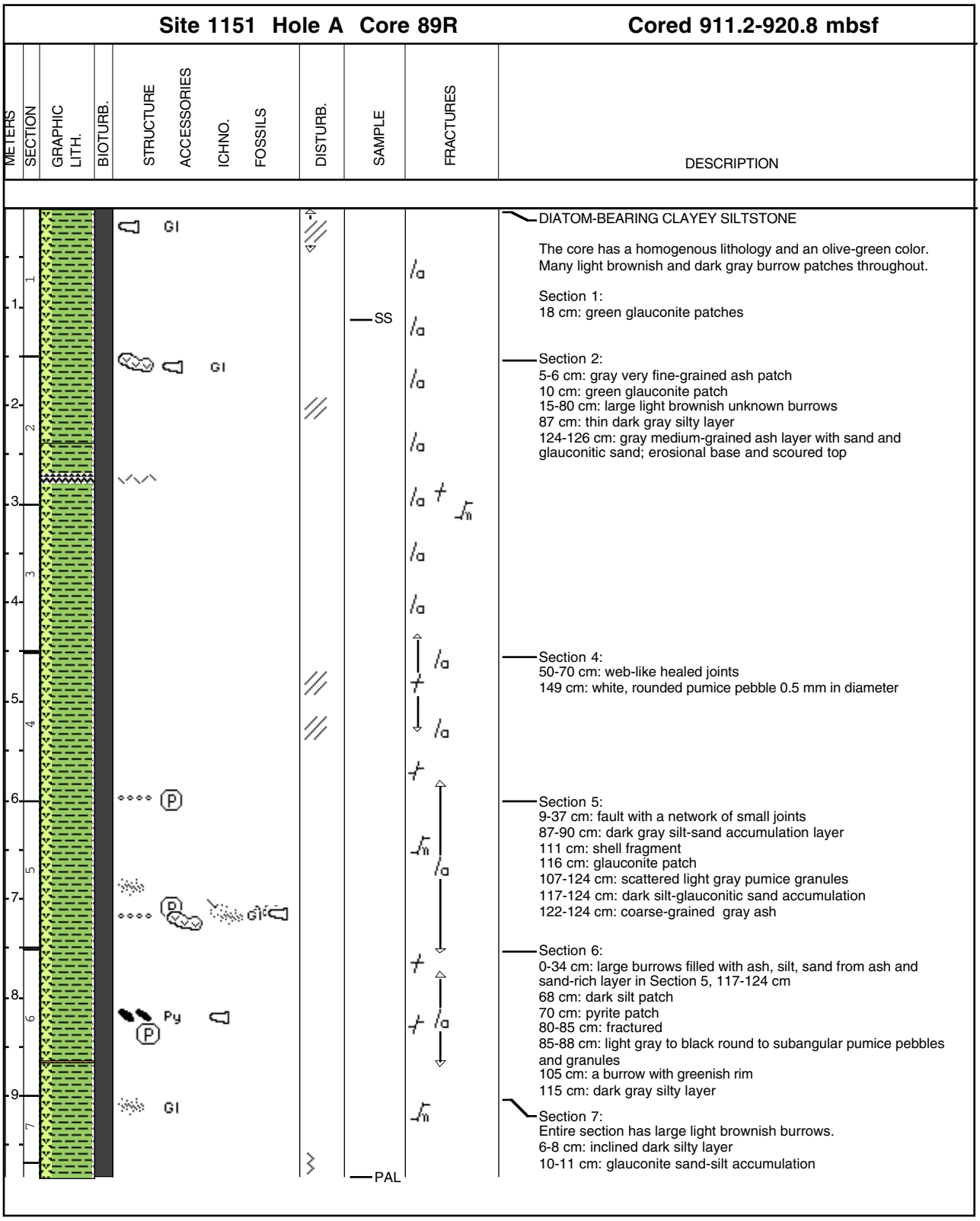
DIATOM AND SPICULE-BEARING SILTY CLAYSTONE
The core has a homogenous lithology and an olive green color. Many light brownish and dark gray burrow patches throughout.
Section 1:
13.5, 59 cm: green glauconite patch
93, 100 cm: dark silt patch
Section 2:
0-20 cm: Zoophicos
16-25 cm: scattered light gray granules of pumice with sand-silt
25-55 cm: burrows filled with pumice
80-81, 100 cm: dark gray silt patch
83 cm: green glauconite patch
Section 3:
0-10 cm: scattered glauconitic sand in burrows
42-50 cm: light gray very fine-grained ash patch
Section 4:
116-127 cm: light gray to brownish gray and dark gray, rounded to subrounded pumice
142 cm: Zoophycos
Section 5:
35 cm: dark silt layer
70-90 cm: Zoophcos burrows
Section 5:
1-10 cm: scattered light gray pumice granules
83-104: some open and some jointed web-like fractures

Core Photo


Site 1151 Hole A Core 89R
Cored 911.2-920.8 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
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FOSSILS
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FRACTURES
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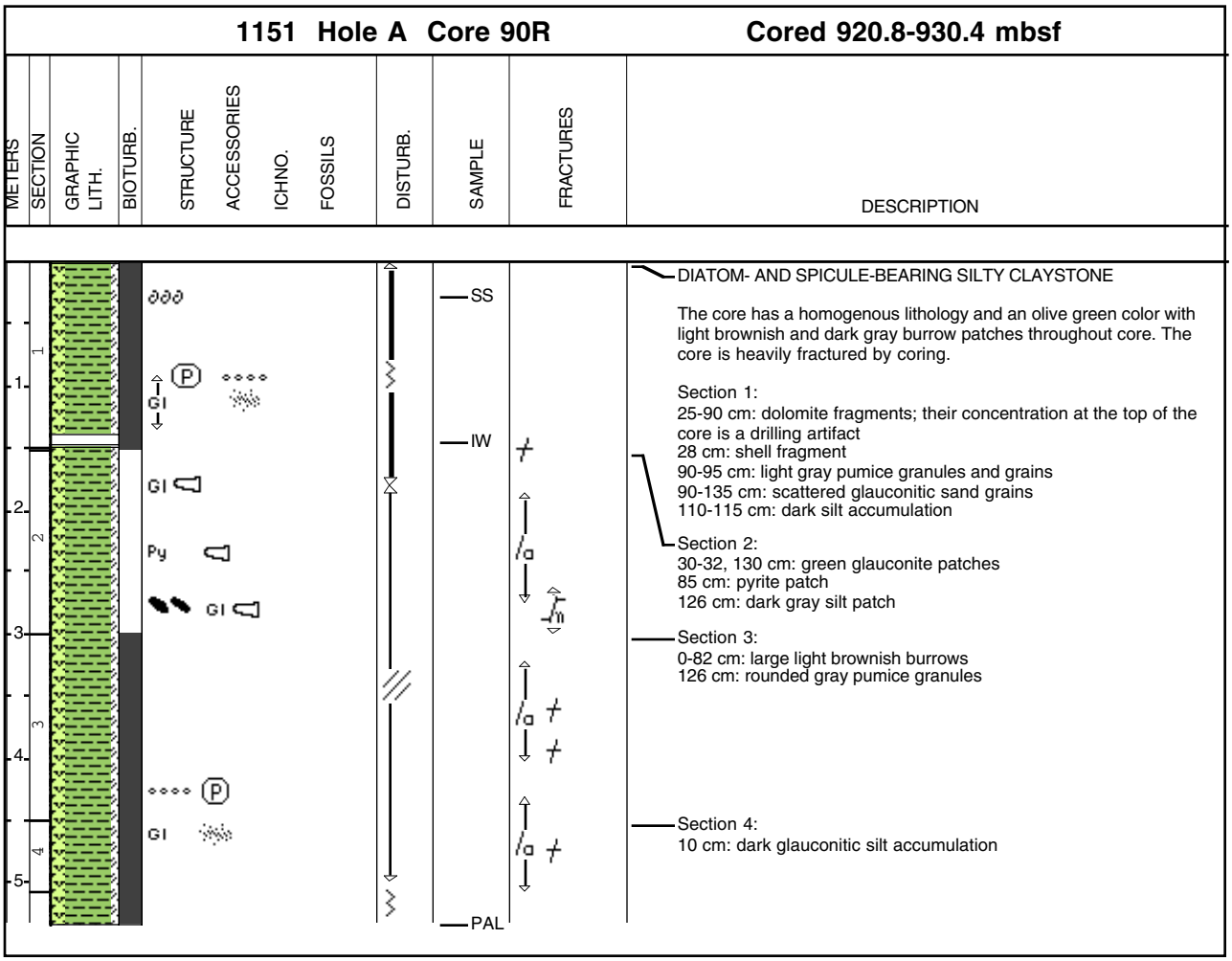
DIATOM-BEARING CLAYEY SILTSTONE
The core has a homogenous lithology and an olive-green color. Many light brownish and dark gray burrow patches throughout.
Section 1:
18 cm: green glauconite patches
Section 2:
5-6 cm: gray very fine-grained ash patch
10 cm: green glauconite patch
15-80 cm: large light brownish unknown burrows
87 cm: thin dark gray silty layer
124-126 cm: gray medium-grained ash layer with sand and glauconitic sand; erosional base and scoured top
Section 4:
50-70 cm: web-like healed joints
149 cm: white, rounded pumice pebble 0.5 mm in diameter
Section 5:
9-37 cm: fault with a network of small joints
87-90 cm: dark gray silt-sand accumulation layer
111 cm: shell fragment
116 cm: glauconite patch
107-124 cm: scattered light gray pumice granules
117-124 cm: dark silt-glauconitic sand accumulation
122-124 cm: coarse-grained gray ash
Section 6:
0-34 cm: large burrows filled with ash, silt, sand from ash and sand-rich layer in Section 5, 117-124 cm
68 cm: dark silt patch
70 cm: pyrite patch
80-85 cm: fractured
85-88 cm: light gray to black round to subangular pumice pebbles and granules
105 cm: a burrow with greenish rim
115 cm: dark gray silty layer
Section 7:
Entire section has large light brownish burrows.
6-8 cm: inclined dark silty layer
10-11 cm: glauconite sand-silt accumulation

Core Photo


1151 Hole A Core 90R
Cored 920.8-930.4 mbsf
METERS
SECTION
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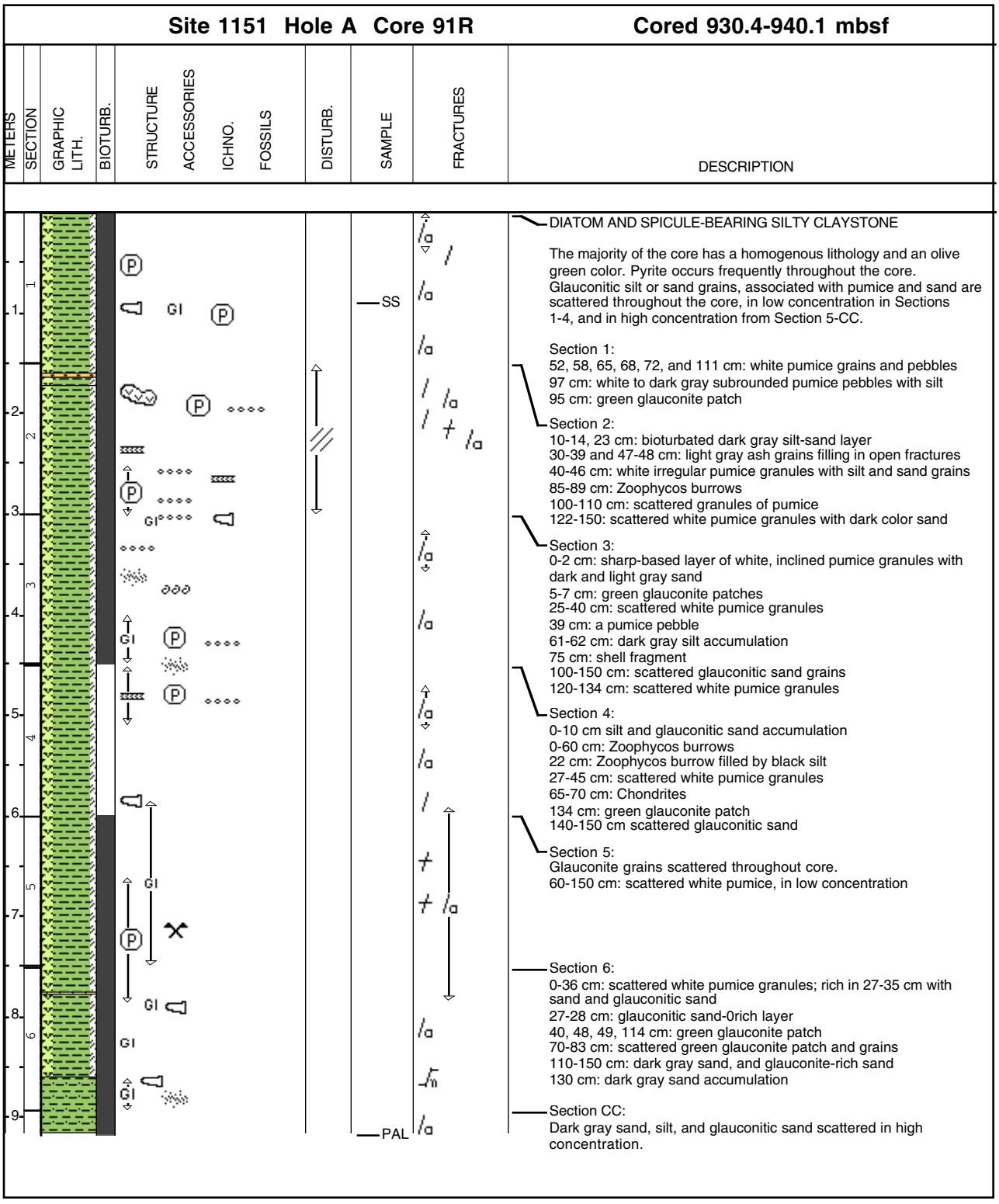
DIATOM- AND SPICULE-BEARING SILTY CLAYSTONE
The core has a homogenous lithology and an olive green color with light brownish and dark gray burrow patches throughout core. The core is heavily fractured by coring.
Section 1:
25-90 cm: dolomite fragments; their concentration at the top of the core is a drilling artifact
28 cm: shell fragment
90-95 cm: light gray pumice granules and grains
90-135 cm: scattered glauconitic sand grains
110-115 cm: dark silt accumulation
Section 2:
30-32, 130 cm: green glauconite patches
85 cm: pyrite patch
126 cm: dark gray silt patch
Section 3:
0-82 cm: large light brownish burrows
126 cm: rounded gray pumice granules
Section 4:
10 cm: dark glauconitic silt accumulation

Core Photo


Site 1151 Hole A Core 91R
Cored 930.4-940.1 mbsf
METERS
SECTION
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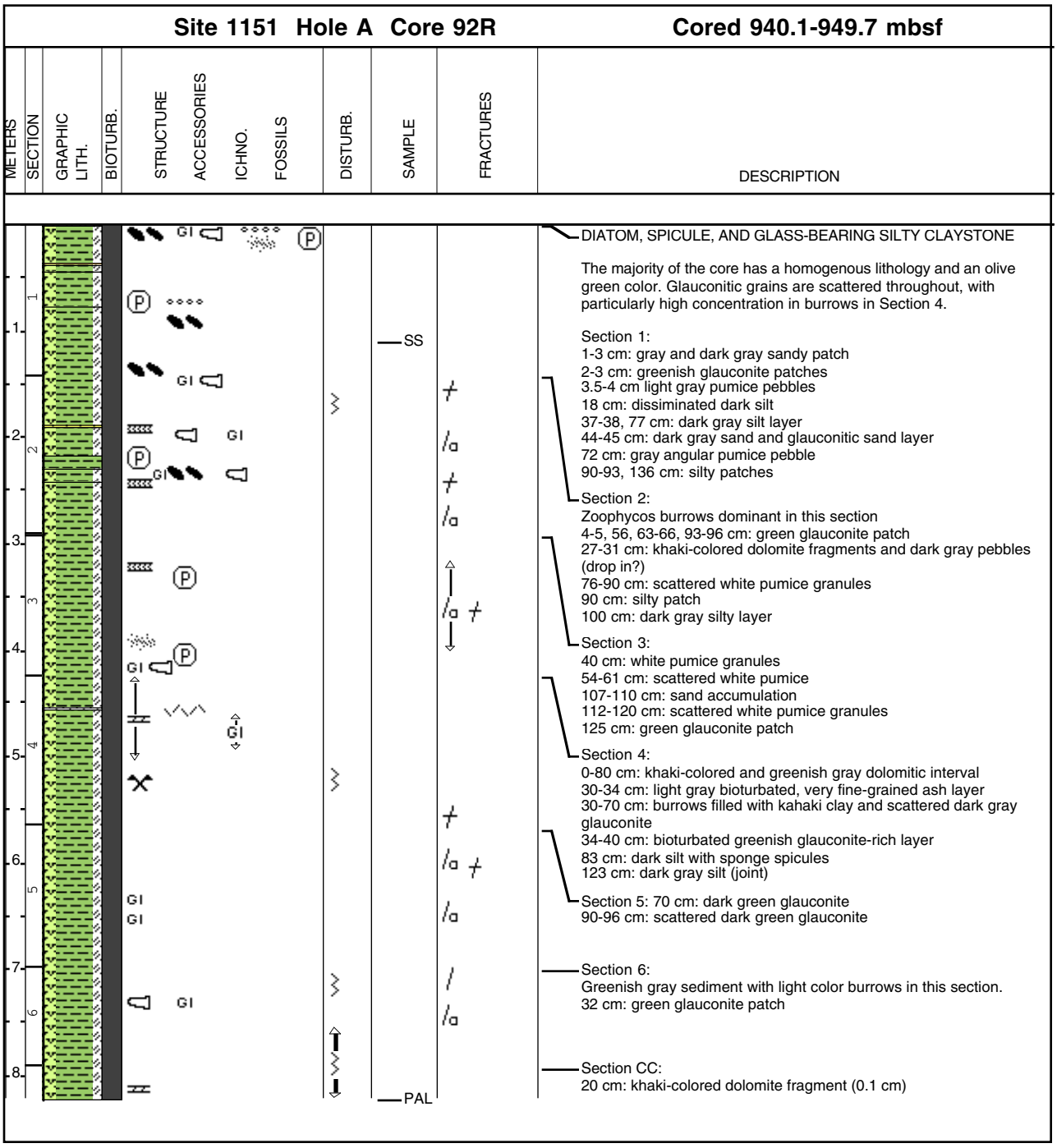
DIATOM AND SPICULE-BEARING SILTY CLAYSTONE
The majority of the core has a homogenous lithology and an olive green color. Pyrite occurs frequently throughout the core. Glauconitic silt or sand grains, associated with pumice and sand are scattered throughout the core, in low concentration in Sections 1-4, and in high concentration from Section 5-CC.
Section 1:
52, 58, 65, 68, 72, and 111 cm: white pumice grains and pebbles
97 cm: white to dark gray subrounded pumice pebbles with silt
95 cm: green glauconite patch
Section 2:
10-14, 23 cm: bioturbated dark gray silt-sand layer
30-39 and 47-48 cm: light gray ash grains filling in open fractures
40-46 cm: white irregular pumice granules with silt and sand grains
85-89 cm: Zoophycos burrows
100-110 cm: scattered granules of pumice
122-150: scattered white pumice granules with dark color sand
Section 3:
0-2 cm: sharp-based layer of white, inclined pumice granules with dark and light gray sand
5-7 cm: green glauconite patches
25-40 cm: scattered white pumice granules
39 cm: a pumice pebble
61-62 cm: dark gray silt accumulation
75 cm: shell fragment
100-150 cm: scattered glauconitic sand grains
120-134 cm: scattered white pumice granules
Section 4:
0-10 cm silt and glauconitic sand accumulation
0-60 cm: Zoophycos burrows
22 cm: Zoophycos burrow filled by black silt
27-45 cm: scattered white pumice granules
65-70 cm: Chondrites
134 cm: green glauconite patch
140-150 cm scattered glauconitic sand
Section 5:
Glauconite grains scattered throughout core.
60-150 cm: scattered white pumice, in low concentration
Section 6:
0-36 cm: scattered white pumice granules; rich in 27-35 cm with sand and glauconitic sand
27-28 cm: glauconitic sand-0rich layer
40, 48, 49, 114 cm: green glauconite patch
70-83 cm: scattered green glauconite patch and grains
110-150 cm: dark gray sand, and glauconite-rich sand
130 cm: dark gray sand accumulation
Section CC:
Dark gray sand, silt, and glauconitic sand scattered in high concentration.

Core Photo


Site 1151 Hole A Core 92R
Cored 940.1-949.7 mbsf
METERS
SECTION
GRAPHIC LITH.
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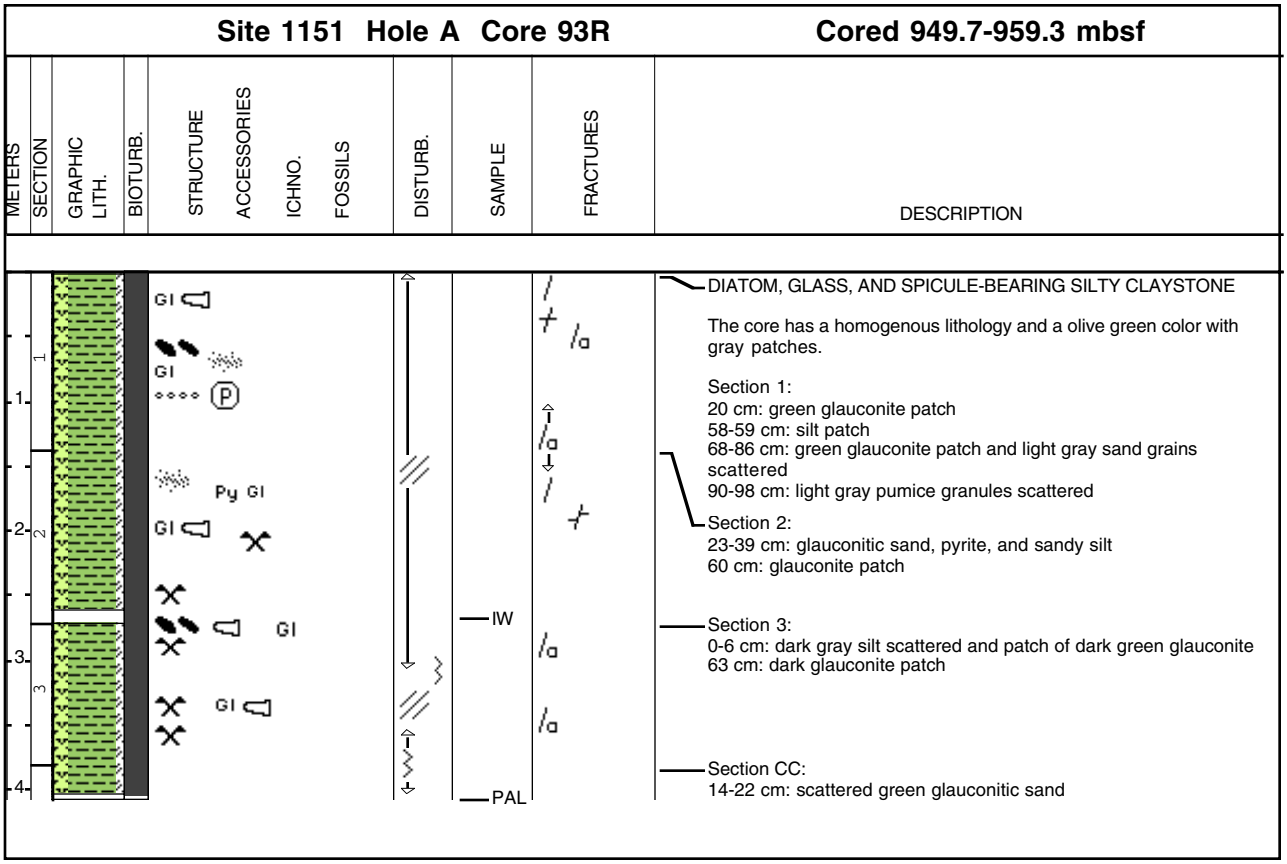
DIATOM, SPICULE, AND GLASS-BEARING SILTY CLAYSTONE
The majority of the core has a homogenous lithology and an olive green color. Glauconitic grains are scattered throughout, with particularly high concentration in burrows in Section 4.
Section 1:
1-3 cm: gray and dark gray sandy patch
2-3 cm: greenish glauconite patches
3.5-4 cm light gray pumice pebbles
18 cm: dissiminated dark silt
37-38, 77 cm: dark gray silt layer
44-45 cm: dark gray sand and glauconitic sand layer
72 cm: gray angular pumice pebble
90-93, 136 cm: silty patches
Section 2:
Zoophycos burrows dominant in this section
4-5, 56, 63-66, 93-96 cm: green glauconite patch
27-31 cm: khaki-colored dolomite fragments and dark gray pebbles (drop in?)
76-90 cm: scattered white pumice granules
90 cm: silty patch
100 cm: dark gray silty layer
Section 3:
40 cm: white pumice granules
54-61 cm: scattered white pumice
107-110 cm: sand accumulation
112-120 cm: scattered white pumice granules
125 cm: green glauconite patch
Section 4:
0-80 cm: khaki-colored and greenish gray dolomitic interval
30-34 cm: light gray bioturbated, very fine-grained ash layer
30-70 cm: burrows filled with kahaki clay and scattered dark gray glauconite
34-40 cm: bioturbated greenish glauconite-rich layer
83 cm: dark silt with sponge spicules
123 cm: dark gray silt (joint)
Section 5: 70 cm: dark green glauconite
90-96 cm: scattered dark green glauconite
Section 6:
Greenish gray sediment with light color burrows in this section.
32 cm: green glauconite patch
Section CC:
20 cm: khaki-colored dolomite fragment (0.1 cm)

Core Photo


Site 1151 Hole A Core 93R
Cored 949.7-959.3 mbsf
METERS
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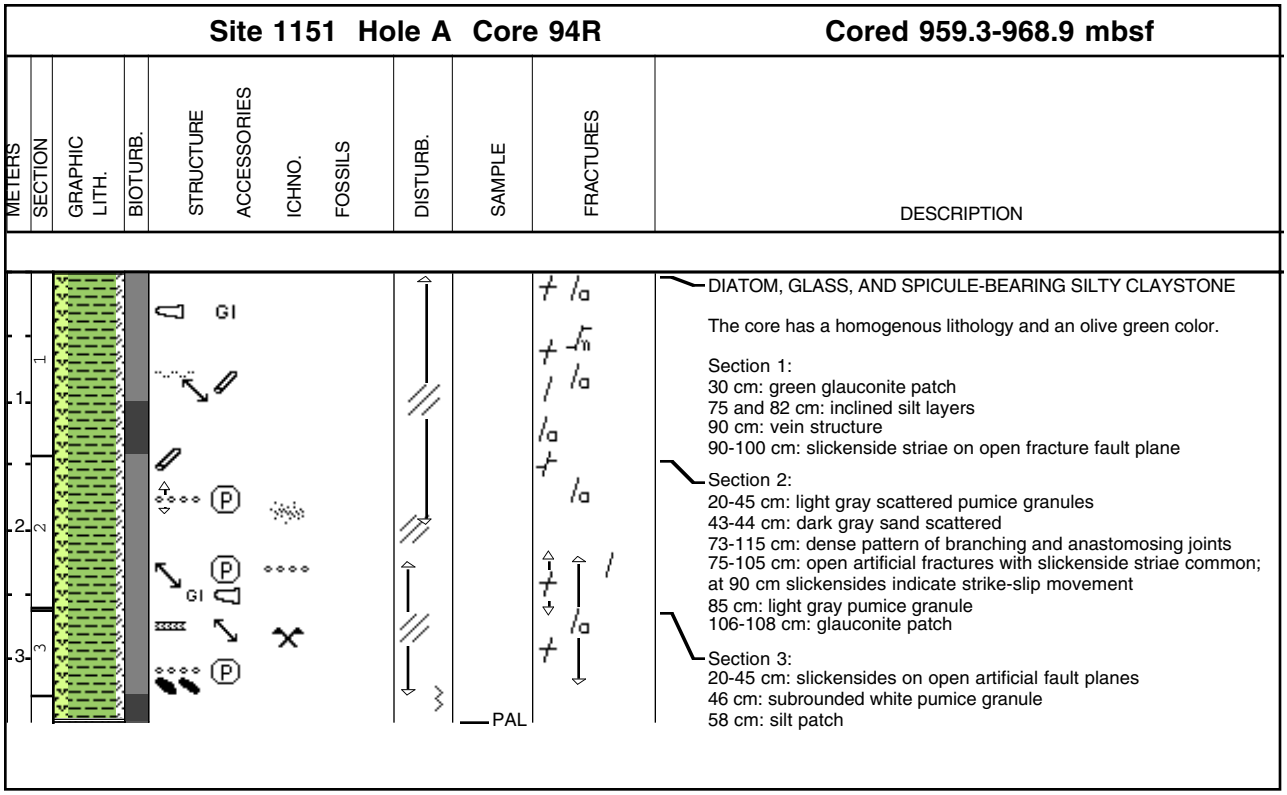
DIATOM, GLASS, AND SPICULE-BEARING SILTY CLAYSTONE
The core has a homogenous lithology and a olive green color with gray patches.
Section 1:
20 cm: green glauconite patch
58-59 cm: silt patch
68-86 cm: green glauconite patch and light gray sand grains scattered
90-98 cm: light gray pumice granules scattered
Section 2:
23-39 cm: glauconitic sand, pyrite, and sandy silt
60 cm: glauconite patch
Section 3:
0-6 cm: dark gray silt scattered and patch of dark green glauconite
63 cm: dark glauconite patch
Section CC:
14-22 cm: scattered green glauconitic sand

Core Photo


Site 1151 Hole A Core 94R
Cored 959.3-968.9 mbsf
METERS
SECTION
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BIOTURB.
STRUCTURE
ACCESSORIES
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SAMPLE
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DIATOM, GLASS, AND SPICULE-BEARING SILTY CLAYSTONE
The core has a homogenous lithology and an olive green color.
Section 1:
30 cm: green glauconite patch
75 and 82 cm: inclined silt layers
90 cm: vein structure
90-100 cm: slickenside striae on open fracture fault plane
Section 2:
20-45 cm: light gray scattered pumice granules
43-44 cm: dark gray sand scattered
73-115 cm: dense pattern of branching and anastomosing joints
75-105 cm: open artificial fractures with slickenside striae common; at 90 cm slickensides indicate strike-slip movement
85 cm: light gray pumice granule
106-108 cm: glauconite patch
Section 3:
20-45 cm: slickensides on open artificial fault planes
46 cm: subrounded white pumice granule
58 cm: silt patch

Core Photo

Site 1151 Hole A Core 95R **Cored 968.9-978.6 mbsf**

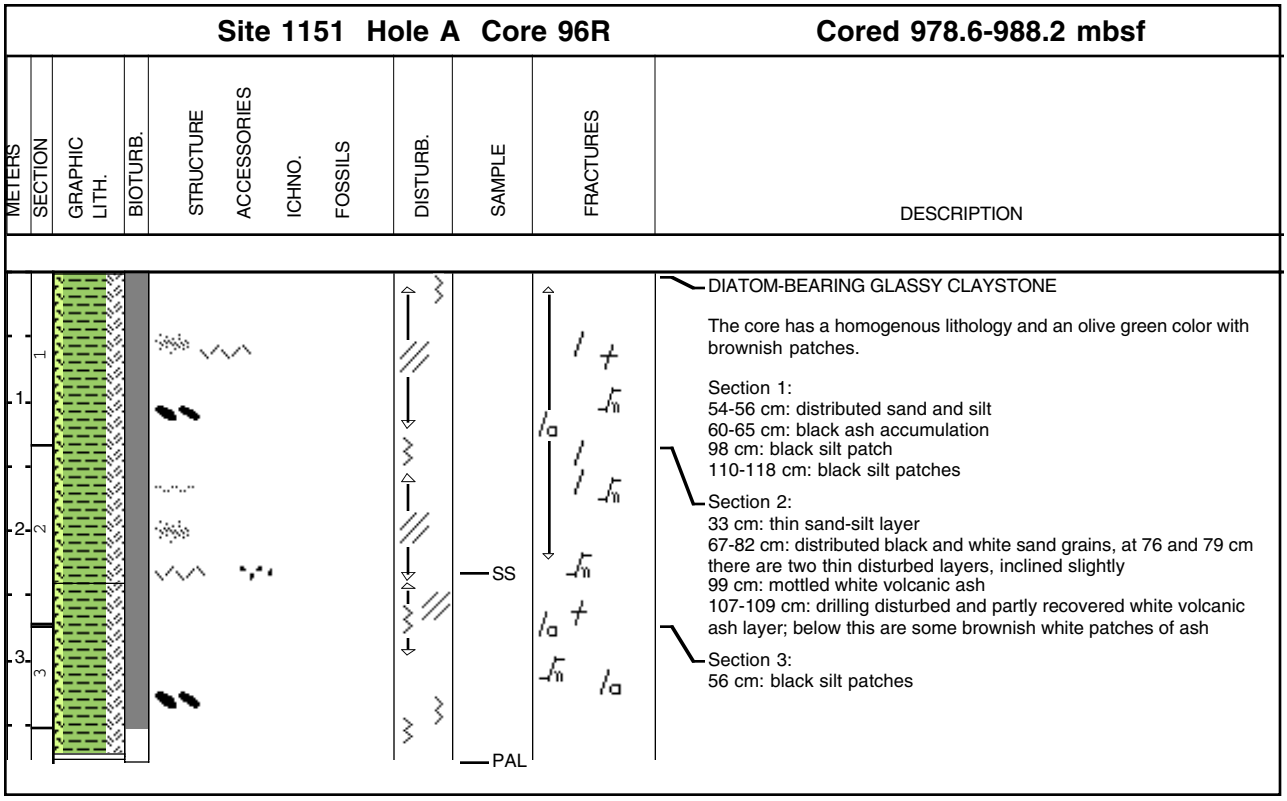
METERS | SECTION | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | FRACTURES | DESCRIPTION

DIATOM, SPICULE, AND GLASS-BEARING SILTY CLAYSTONE

The core has a homogenous lithology and is olive green in color.

Section 1:
6, 12 cm: pumice granules
10-20 cm: glauconitic sand and silt scattered
30 cm: glauconitic silt patch
33-77 cm: scattered glauconitic silt and sand
65-66 cm: glauconitic silt patch
93 cm: glauconitic sand patch
107-110 cm: dolomite lithoclast

Core Photo


Site 1151 Hole A Core 96R
Cored 978.6-988.2 mbsf
METERS
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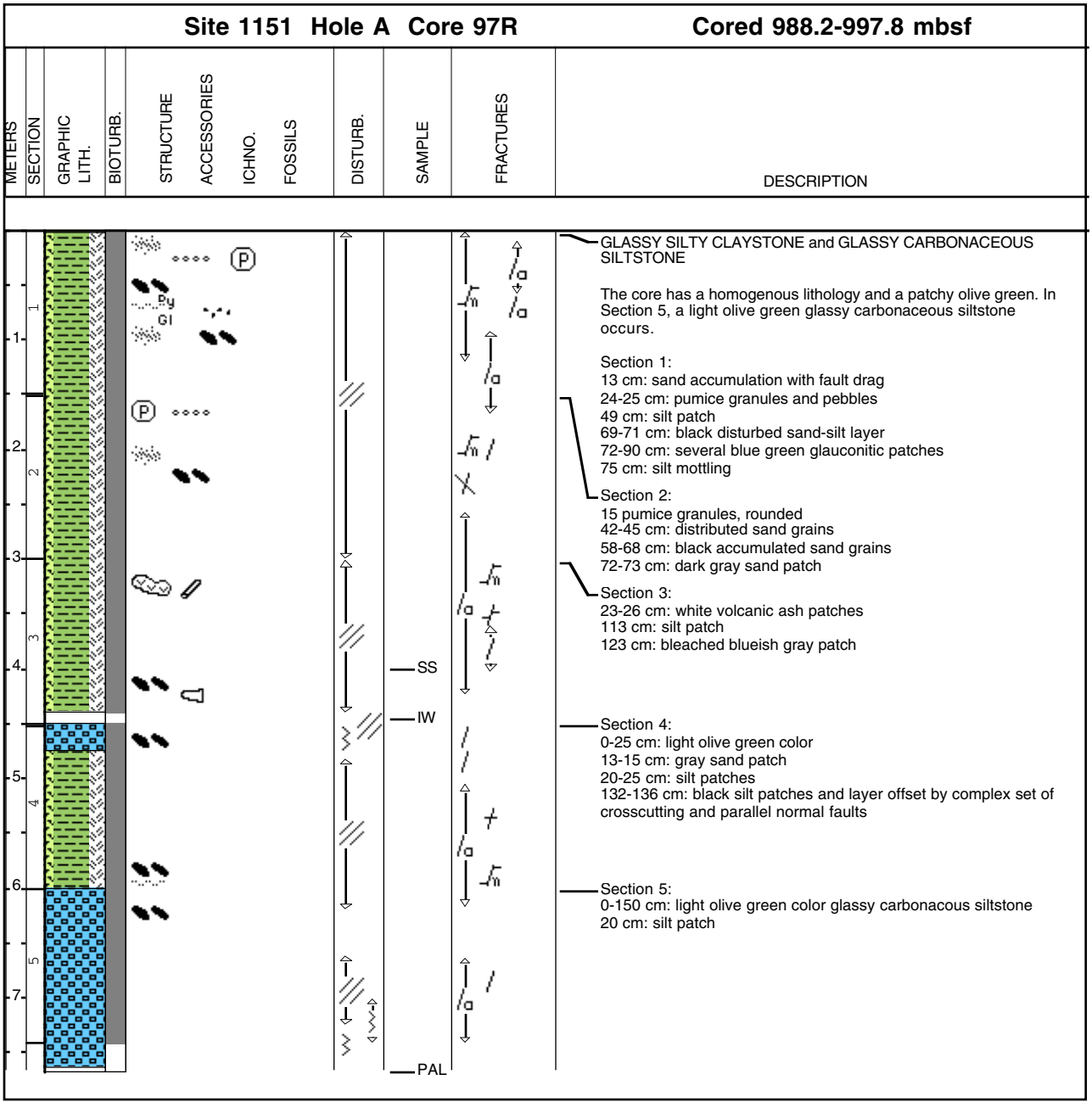
DIATOM-BEARING GLASSY CLAYSTONE
The core has a homogenous lithology and an olive green color with brownish patches.
Section 1:
54-56 cm: distributed sand and silt
60-65 cm: black ash accumulation
98 cm: black silt patch
110-118 cm: black silt patches
Section 2:
33 cm: thin sand-silt layer
67-82 cm: distributed black and white sand grains, at 76 and 79 cm there are two thin disturbed layers, inclined slightly
99 cm: mottled white volcanic ash
107-109 cm: drilling disturbed and partly recovered white volcanic ash layer; below this are some brownish white patches of ash
Section 3:
56 cm: black silt patches

Core Photo


Site 1151 Hole A Core 97R
Cored 988.2-997.8 mbsf
METERS
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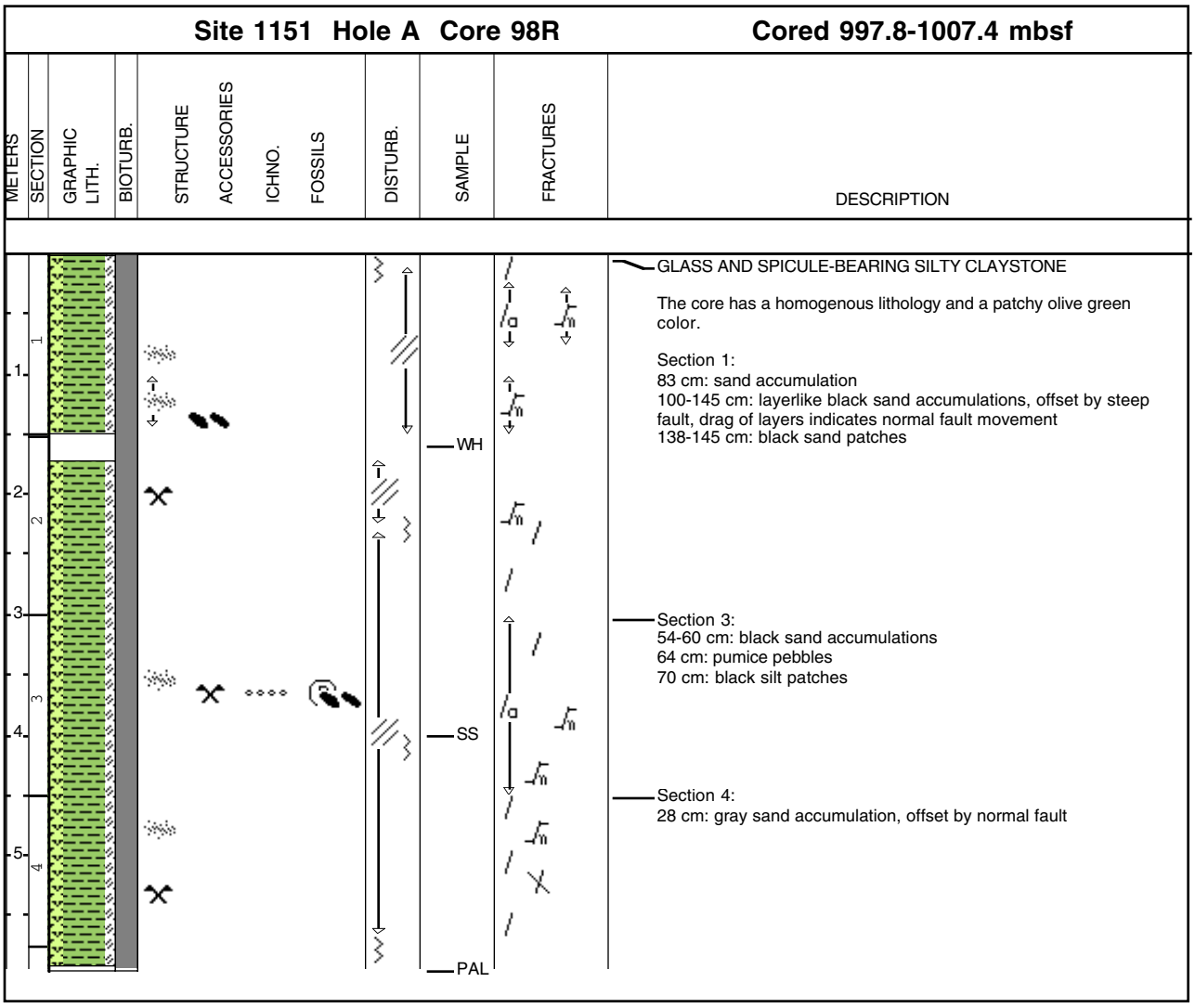
GLASSY SILTY CLAYSTONE and GLASSY CARBONACEOUS SILTSTONE
The core has a homogenous lithology and a patchy olive green. In Section 5, a light olive green glassy carbonaceous siltstone occurs.
Section 1:
13 cm: sand accumulation with fault drag
24-25 cm: pumice granules and pebbles
49 cm: silt patch
69-71 cm: black disturbed sand-silt layer
72-90 cm: several blue green glauconitic patches
75 cm: silt mottling
Section 2:
15 pumice granules, rounded
42-45 cm: distributed sand grains
58-68 cm: black accumulated sand grains
72-73 cm: dark gray sand patch
Section 3:
23-26 cm: white volcanic ash patches
113 cm: silt patch
123 cm: bleached blueish gray patch
Section 4:
0-25 cm: light olive green color
13-15 cm: gray sand patch
20-25 cm: silt patches
132-136 cm: black silt patches and layer offset by complex set of crosscutting and parallel normal faults
Section 5:
0-150 cm: light olive green color glassy carbonacous siltstone
20 cm: silt patch

Core Photo


Site 1151 Hole A Core 98R
Cored 997.8-1007.4 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
WH
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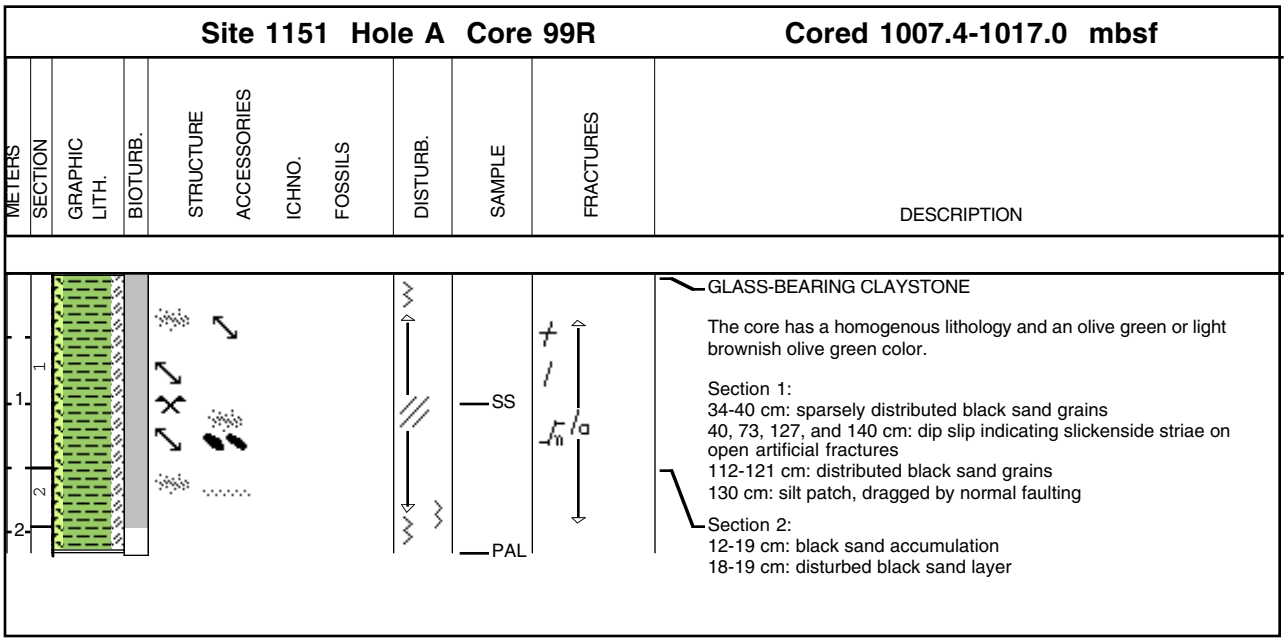
PAL
GLASS AND SPICULE-BEARING SILTY CLAYSTONE
The core has a homogenous lithology and a patchy olive green color.
Section 1:
83 cm: sand accumulation
100-145 cm: layerlike black sand accumulations, offset by steep fault, drag of layers indicates normal fault movement
138-145 cm: black sand patches
Section 3:
54-60 cm: black sand accumulations
64 cm: pumice pebbles
70 cm: black silt patches
Section 4:
28 cm: gray sand accumulation, offset by normal fault

Core Photo


Site 1151 Hole A Core 99R
Cored 1007.4-1017.0 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
1
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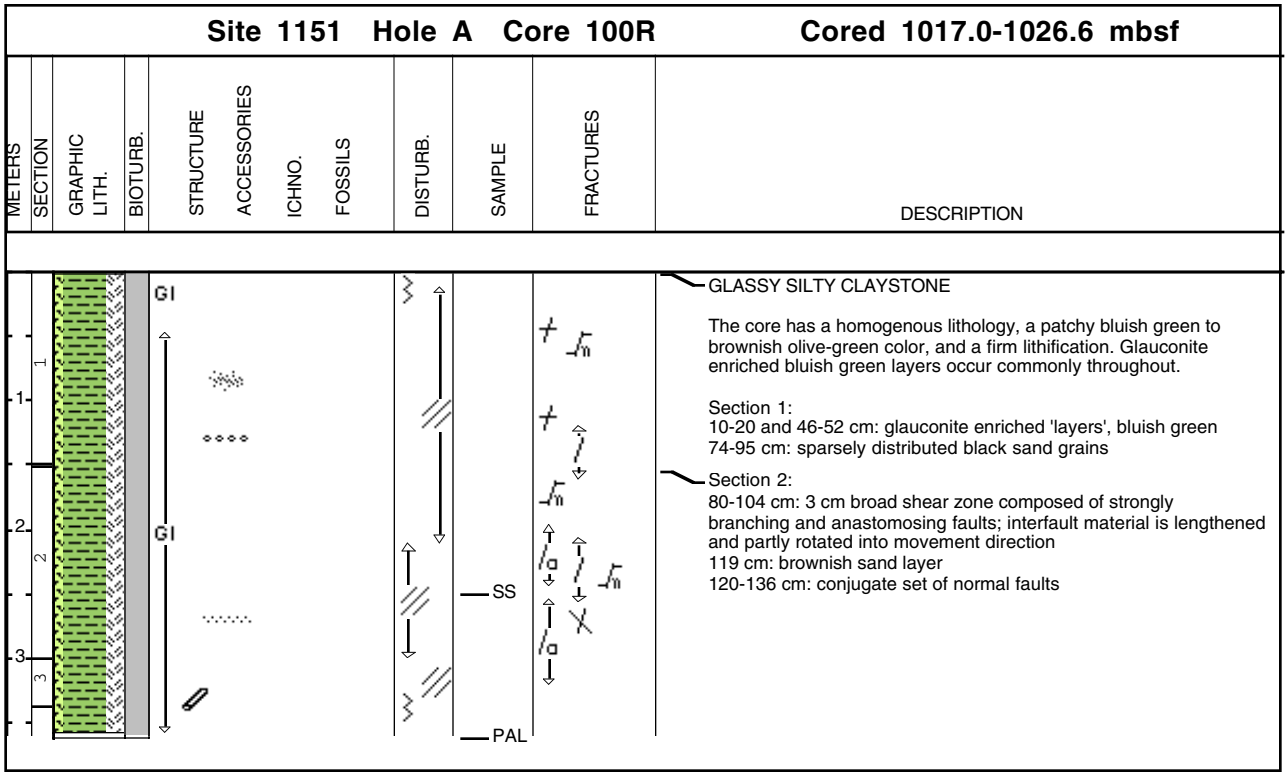
PAL
GLASS-BEARING CLAYSTONE
The core has a homogenous lithology and an olive green or light brownish olive green color.
Section 1:
34-40 cm: sparsely distributed black sand grains
40, 73, 127, and 140 cm: dip slip indicating slickenside striae on open artificial fractures
112-121 cm: distributed black sand grains
130 cm: silt patch, dragged by normal faulting
Section 2:
12-19 cm: black sand accumulation
18-19 cm: disturbed black sand layer

Core Photo


Site 1151 Hole A Core 100R Cored 1017.0-1026.6 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
GI
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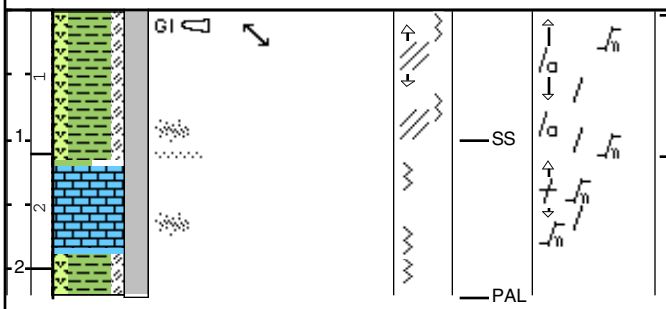
PAL
GLASSY SILTY CLAYSTONE
The core has a homogenous lithology, a patchy bluish green to brownish olive-green color, and a firm lithification. Glauconite enriched bluish green layers occur commonly throughout.
Section 1:
10-20 and 46-52 cm: glauconite enriched 'layers', bluish green
74-95 cm: sparsely distributed black sand grains
Section 2:
80-104 cm: 3 cm broad shear zone composed of strongly branching and anastomosing faults; interfault material is lengthened and partly rotated into movement direction
119 cm: brownish sand layer
120-136 cm: conjugate set of normal faults

Core Photo

Site 1151 Hole A Core 101R Cored 1026.6-1028.8 mbsf



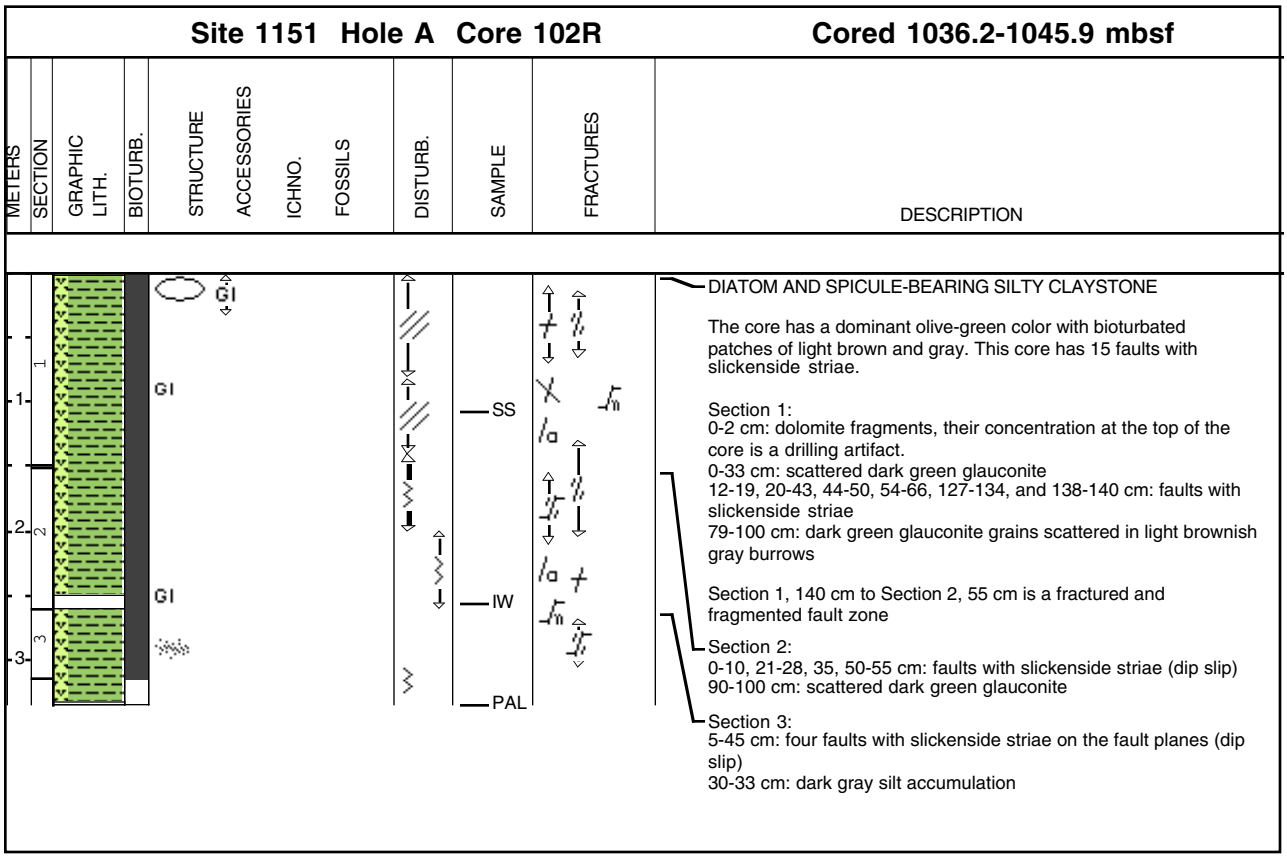
NANNOFOSSIL AND GLASS-BEARING CLAYSTONE and LIMESTONE

The core contains nannofossil- and glass-bearing claystone and, in Section 2, limestone. The color is bluish gray, gray, or dark grayish olive green.

Section 1:
11-13 cm: blugreen glauconitic precipitation rim around black sand patch
20-30 cm: color changes from patchy grayish-bluish olive green to a lighter version of the same colors
60-70 cm: color changes back to darker grayish-bluish olive green
91-95 cm: sand accumulation
109 cm: gray sand layer

Section 2:
12-16 cm: fissile fractures, vertically oriented, strongly branching after ~5 mm
20 cm: color change from bluish gray to light gray
20-60 cm: lithology change to
25-50 cm: branching scoured white filled calcite vein, upper part with normal displacement, lower part without displacement
54-57 cm: black sparsely distributed sand grains
60 cm: slow color change to gray and to grayish olive green

Core Photo


Site 1151 Hole A Core 102R
Cored 1036.2-1045.9 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
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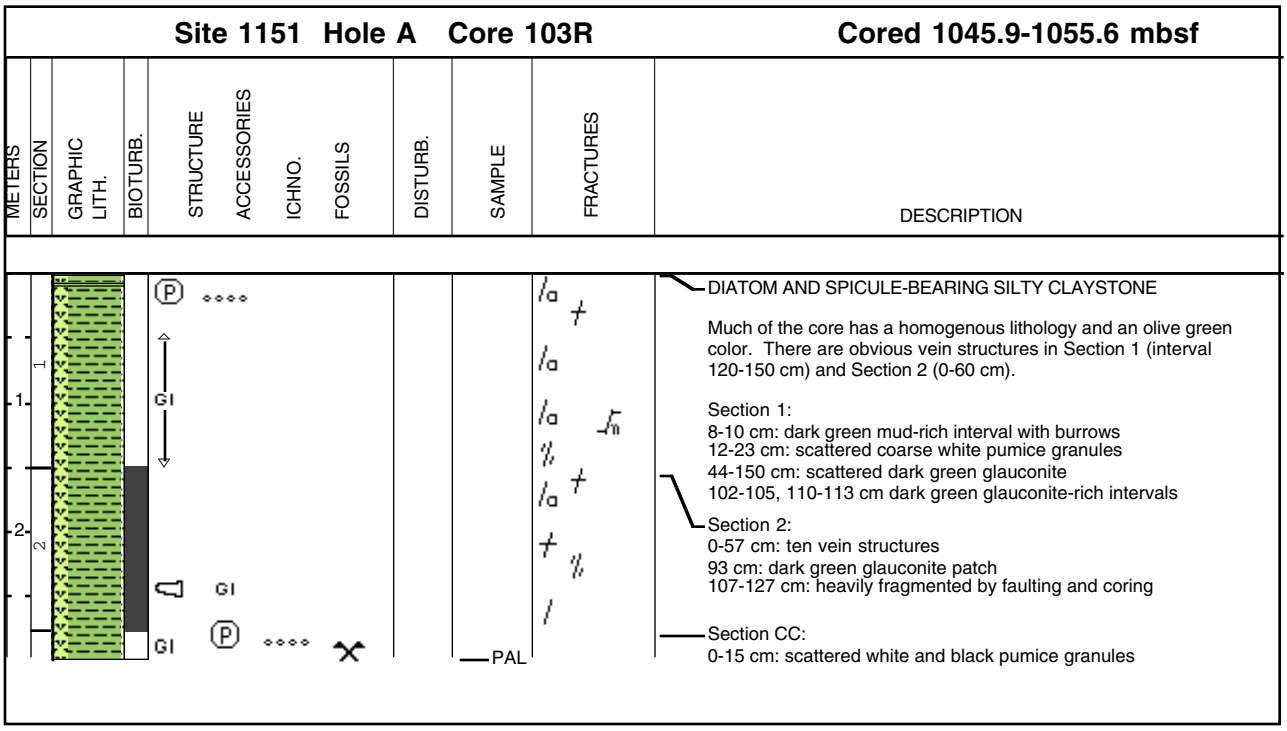
DIATOM AND SPICULE-BEARING SILTY CLAYSTONE
The core has a dominant olive-green color with bioturbated patches of light brown and gray. This core has 15 faults with slickenside striae.
Section 1:
0-2 cm: dolomite fragments, their concentration at the top of the core is a drilling artifact.
0-33 cm: scattered dark green glauconite
12-19, 20-43, 44-50, 54-66, 127-134, and 138-140 cm: faults with slickenside striae
79-100 cm: dark green glauconite grains scattered in light brownish gray burrows
Section 1, 140 cm to Section 2, 55 cm is a fractured and fragmented fault zone
Section 2:
0-10, 21-28, 35, 50-55 cm: faults with slickenside striae (dip slip)
90-100 cm: scattered dark green glauconite
Section 3:
5-45 cm: four faults with slickenside striae on the fault planes (dip slip)
30-33 cm: dark gray silt accumulation

Core Photo


Site 1151 Hole A Core 103R Cored 1045.9-1055.6 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
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FOSSILS
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SAMPLE
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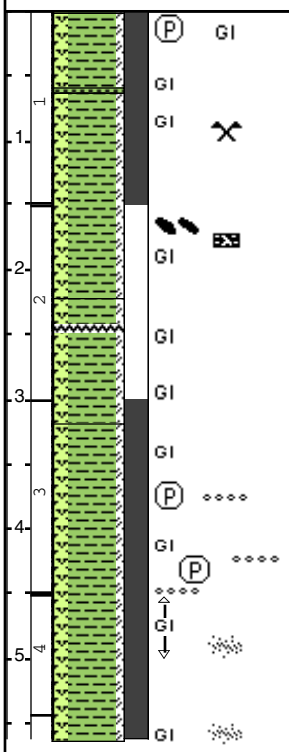
DIATOM AND SPICULE-BEARING SILTY CLAYSTONE
Much of the core has a homogenous lithology and an olive green color. There are obvious vein structures in Section 1 (interval 120-150 cm) and Section 2 (0-60 cm).
Section 1:
8-10 cm: dark green mud-rich interval with burrows
12-23 cm: scattered coarse white pumice granules
44-150 cm: scattered dark green glauconite
102-105, 110-113 cm dark green glauconite-rich intervals
Section 2:
0-57 cm: ten vein structures
93 cm: dark green glauconite patch
107-127 cm: heavily fragmented by faulting and coring
Section CC:
0-15 cm: scattered white and black pumice granules

Core Photo

Site 1151 Hole A Core 104R **Cored 1055.6-1065.3 mbsf**



DESCRIPTION

DIATOM, GLASS, GLAUCONITE-BEARING SILTY CLAYSTONE

The majority of the core has a homogenous lithology. The dominant color is olive-green with bluish-green and brown patches due to bioturbation.

Section 1:
0-9 cm: web-like healed joints
0-15 cm: scattered light gray pumice granules
8-10 cm: veins
12-15 cm: horizontal joints (shear veins)
13-23 cm: scattered dark gray glauconite
18-19 cm: dark gray glauconite-rich
60-61 cm: scattered dark green glauconite
61-63, 82-82 cm: dark green clay layer
62 cm: dark green silty glauconite
100-115 cm: healed shear vein

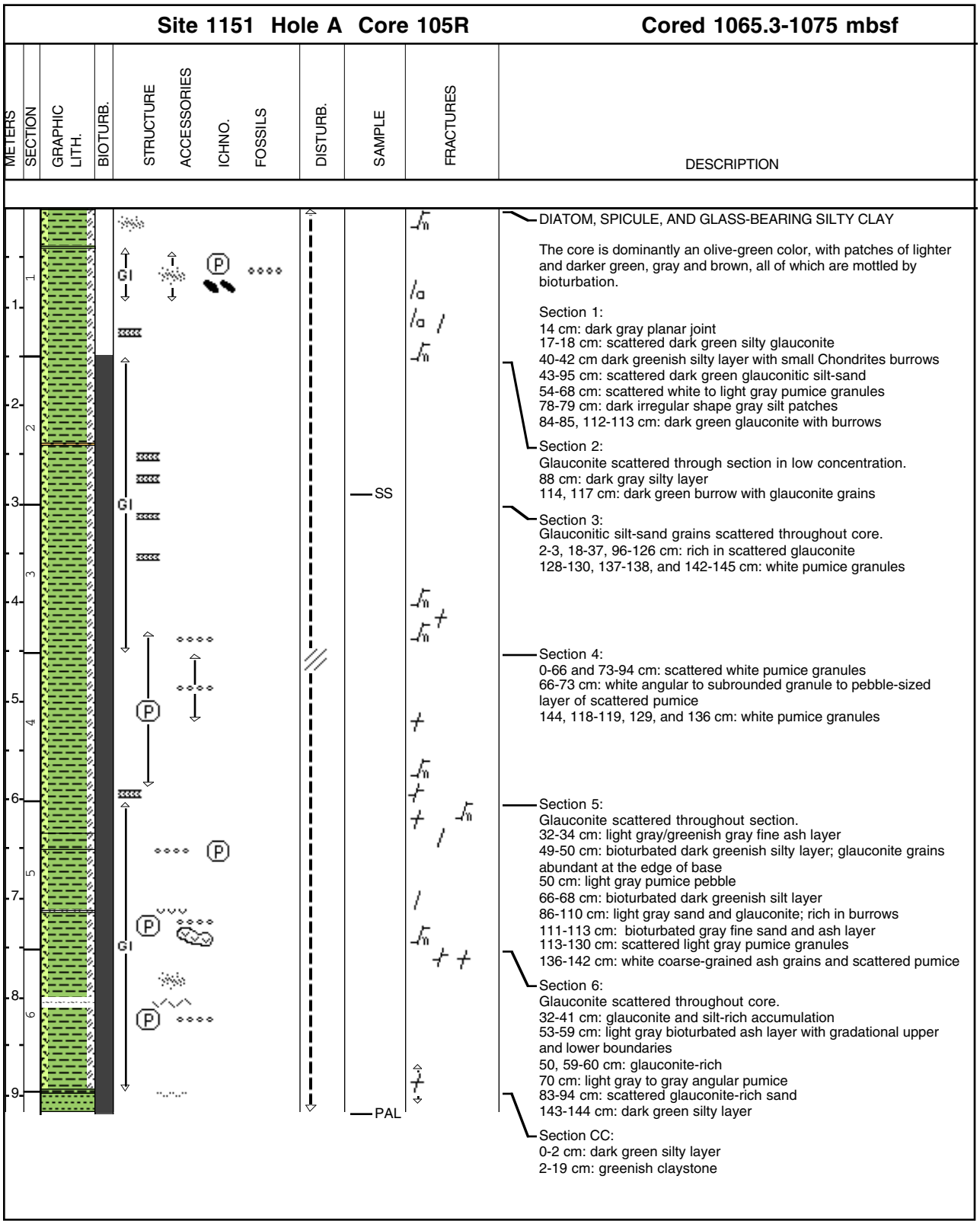
Section 2:
16 cm: dark silt patch
19-34 cm: Chondrites burrows
32-34 cm: dark burrows
33-45 cm: scattered dark green glauconitic silt
72 cm: dark silt
93-96 cm: medium- to coarse-grained gray to dark gray ash layer with sand and glauconitic sand; a sharp erosional base
100-108, 143-150 cm: scattered dark green glauconite
116-135 cm: veins

Section 3:
18 cm: dark gray silt layer
35-40 cm: brownish burrows
36-46 cm: bright green colored interval
40-50 cm: scattered glauconite
74-75 cm: black angular pumice pebble
89-95 cm: inclined light gray carbonaceous layer with brownish top and base
110-112 cm: tornado-like dark green glauconitic burrow
112-132 cm: scattered white pumice granules
140-150 cm: scattered white pumice granules

Section 4:
0-40 cm: scattered dark green glauconite grains and green glauconite patches
40-50 cm: scattered dark silt
50-51 cm: dark gray silt-sand and glauconitic sand accumulation

Section CC:
0-19 cm: scattered glauconite
14-75 cm: dark green glauconitic silt accumulation

Core Photo


Site 1151 Hole A Core 105R
Cored 1065.3-1075 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
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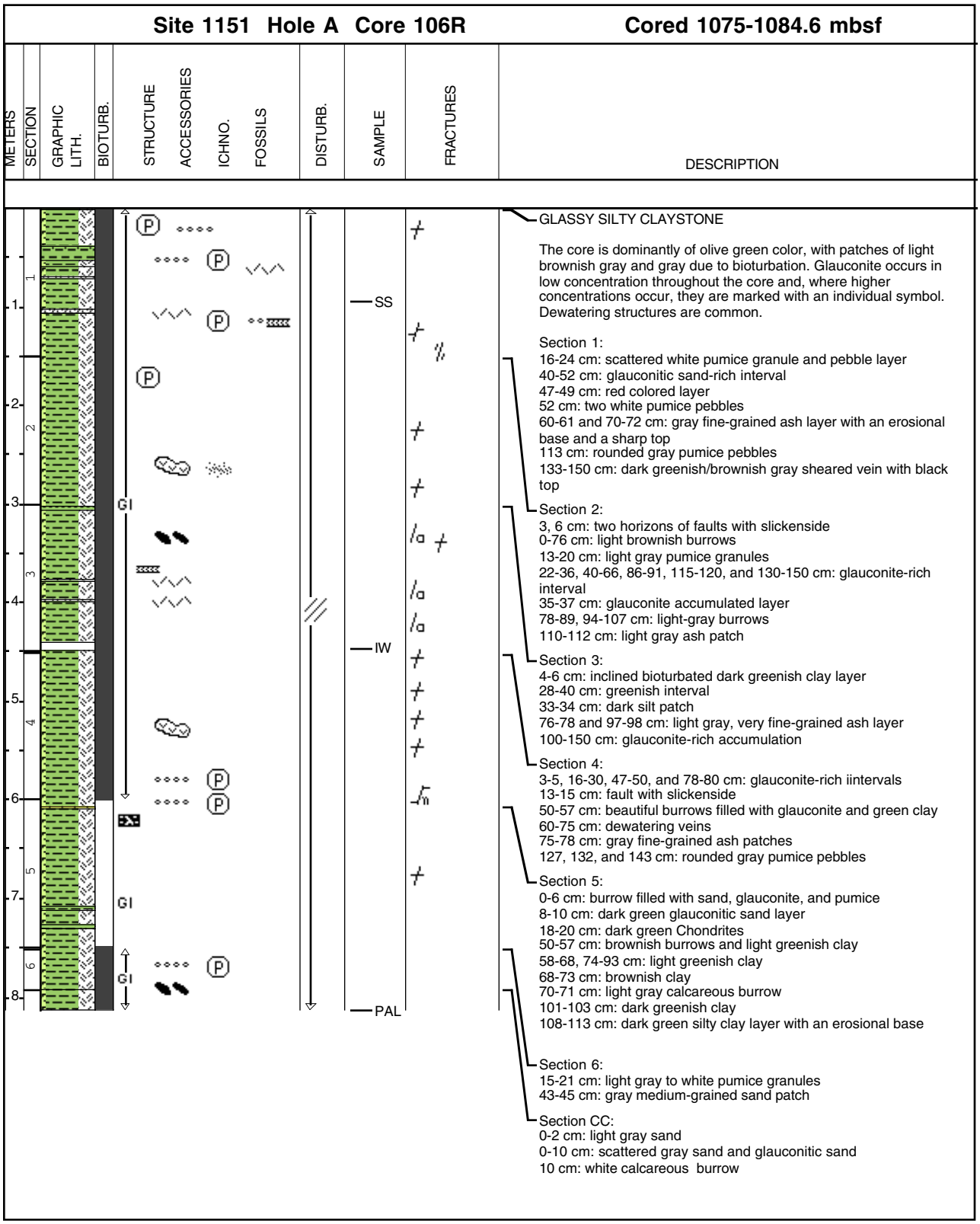
DIATOM, SPICULE, AND GLASS-BEARING SILTY CLAY
The core is dominantly an olive-green color, with patches of lighter and darker green, gray and brown, all of which are mottled by bioturbation.
Section 1:
14 cm: dark gray planar joint
17-18 cm: scattered dark green silty glauconite
40-42 cm dark greenish silty layer with small Chondrites burrows
43-95 cm: scattered dark green glauconitic silt-sand
54-68 cm: scattered white to light gray pumice granules
78-79 cm: dark irregular shape gray silt patches
84-85, 112-113 cm: dark green glauconite with burrows
Section 2:
Glauconite scattered through section in low concentration.
88 cm: dark gray silty layer
114, 117 cm: dark green burrow with glauconite grains
Section 3:
Glauconitic silt-sand grains scattered throughout core.
2-3, 18-37, 96-126 cm: rich in scattered glauconite
128-130, 137-138, and 142-145 cm: white pumice granules
Section 4:
0-66 and 73-94 cm: scattered white pumice granules
66-73 cm: white angular to subrounded granule to pebble-sized layer of scattered pumice
144, 118-119, 129, and 136 cm: white pumice granules
Section 5:
Glauconite scattered throughout section.
32-34 cm: light gray/greenish gray fine ash layer
49-50 cm: bioturbated dark greenish silty layer; glauconite grains abundant at the edge of base
50 cm: light gray pumice pebble
66-68 cm: bioturbated dark greenish silt layer
86-110 cm: light gray sand and glauconite; rich in burrows
111-113 cm: bioturbated gray fine sand and ash layer
113-130 cm: scattered light gray pumice granules
136-142 cm: white coarse-grained ash grains and scattered pumice
Section 6:
Glauconite scattered throughout core.
32-41 cm: glauconite and silt-rich accumulation
53-59 cm: light gray bioturbated ash layer with gradational upper and lower boundaries
50, 59-60 cm: glauconite-rich
70 cm: light gray to gray angular pumice
83-94 cm: scattered glauconite-rich sand
143-144 cm: dark green silty layer
Section CC:
0-2 cm: dark green silty layer
2-19 cm: greenish claystone

Core Photo


Site 1151 Hole A Core 106R
Cored 1075-1084.6 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
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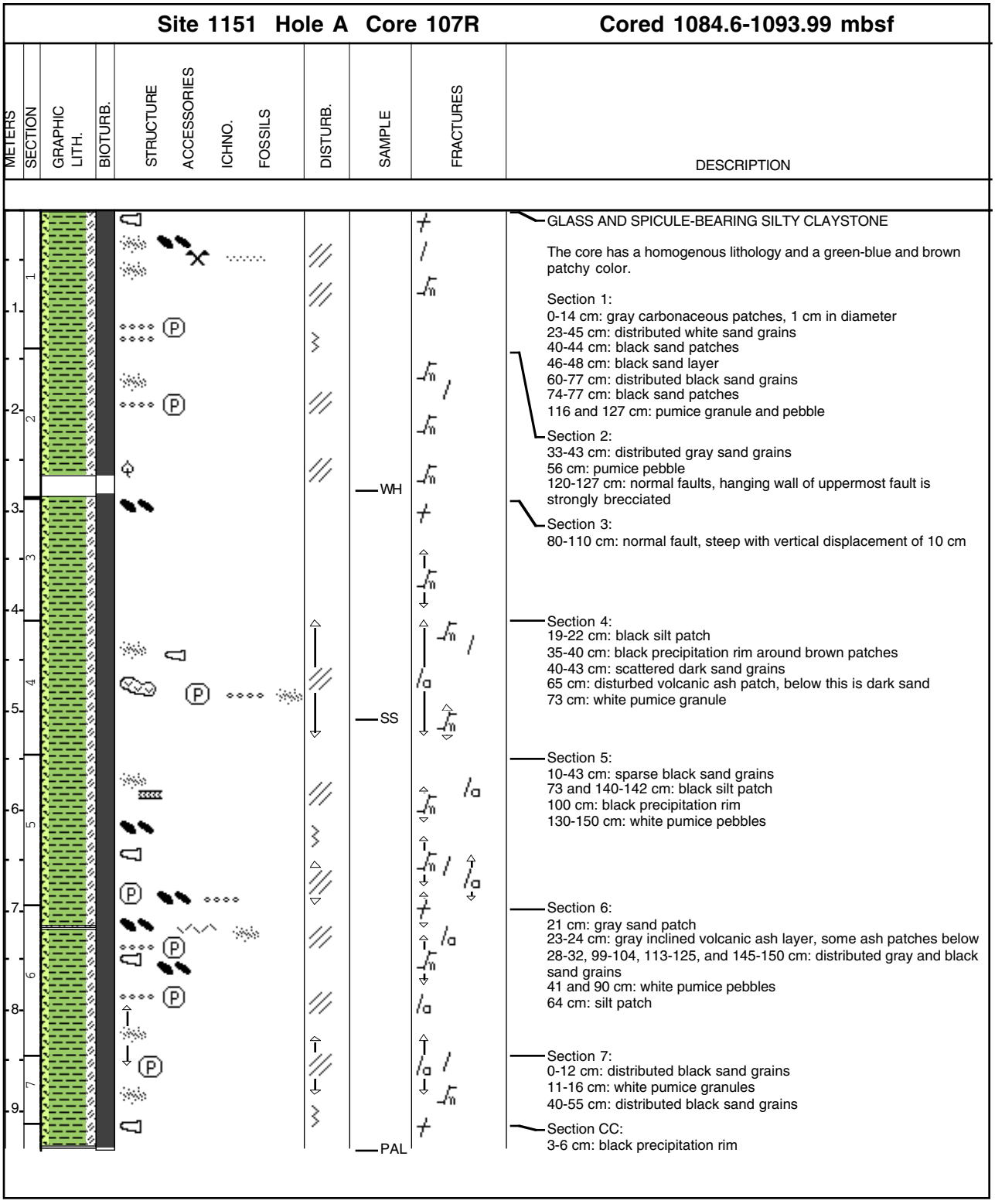
GLASSY SILTY CLAYSTONE
The core is dominantly of olive green color, with patches of light brownish gray and gray due to bioturbation. Glauconite occurs in low concentration throughout the core and, where higher concentrations occur, they are marked with an individual symbol. Dewatering structures are common.
Section 1:
16-24 cm: scattered white pumice granule and pebble layer
40-52 cm: glauconitic sand-rich interval
47-49 cm: red colored layer
52 cm: two white pumice pebbles
60-61 and 70-72 cm: gray fine-grained ash layer with an erosional base and a sharp top
113 cm: rounded gray pumice pebbles
133-150 cm: dark greenish/brownish gray sheared vein with black top
Section 2:
3, 6 cm: two horizons of faults with slickenside
0-76 cm: light brownish burrows
13-20 cm: light gray pumice granules
22-36, 40-66, 86-91, 115-120, and 130-150 cm: glauconite-rich interval
35-37 cm: glauconite accumulated layer
78-89, 94-107 cm: light-gray burrows
110-112 cm: light gray ash patch
Section 3:
4-6 cm: inclined bioturbated dark greenish clay layer
28-40 cm: greenish interval
33-34 cm: dark silt patch
76-78 and 97-98 cm: light gray, very fine-grained ash layer
100-150 cm: glauconite-rich accumulation
Section 4:
3-5, 16-30, 47-50, and 78-80 cm: glauconite-rich iintervals
13-15 cm: fault with slickenside
50-57 cm: beautiful burrows filled with glauconite and green clay
60-75 cm: dewatering veins
75-78 cm: gray fine-grained ash patches
127, 132, and 143 cm: rounded gray pumice pebbles
Section 5:
0-6 cm: burrow filled with sand, glauconite, and pumice
8-10 cm: dark green glauconitic sand layer
18-20 cm: dark green Chondrites
50-57 cm: brownish burrows and light greenish clay
58-68, 74-93 cm: light greenish clay
68-73 cm: brownish clay
70-71 cm: light gray calcareous burrow
101-103 cm: dark greenish clay
108-113 cm: dark green silty clay layer with an erosional base
Section 6:
15-21 cm: light gray to white pumice granules
43-45 cm: gray medium-grained sand patch
Section CC:
0-2 cm: light gray sand
0-10 cm: scattered gray sand and glauconitic sand
10 cm: white calcareous burrow

Core Photo


Site 1151 Hole A Core 107R Cored 1084.6-1093.99 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
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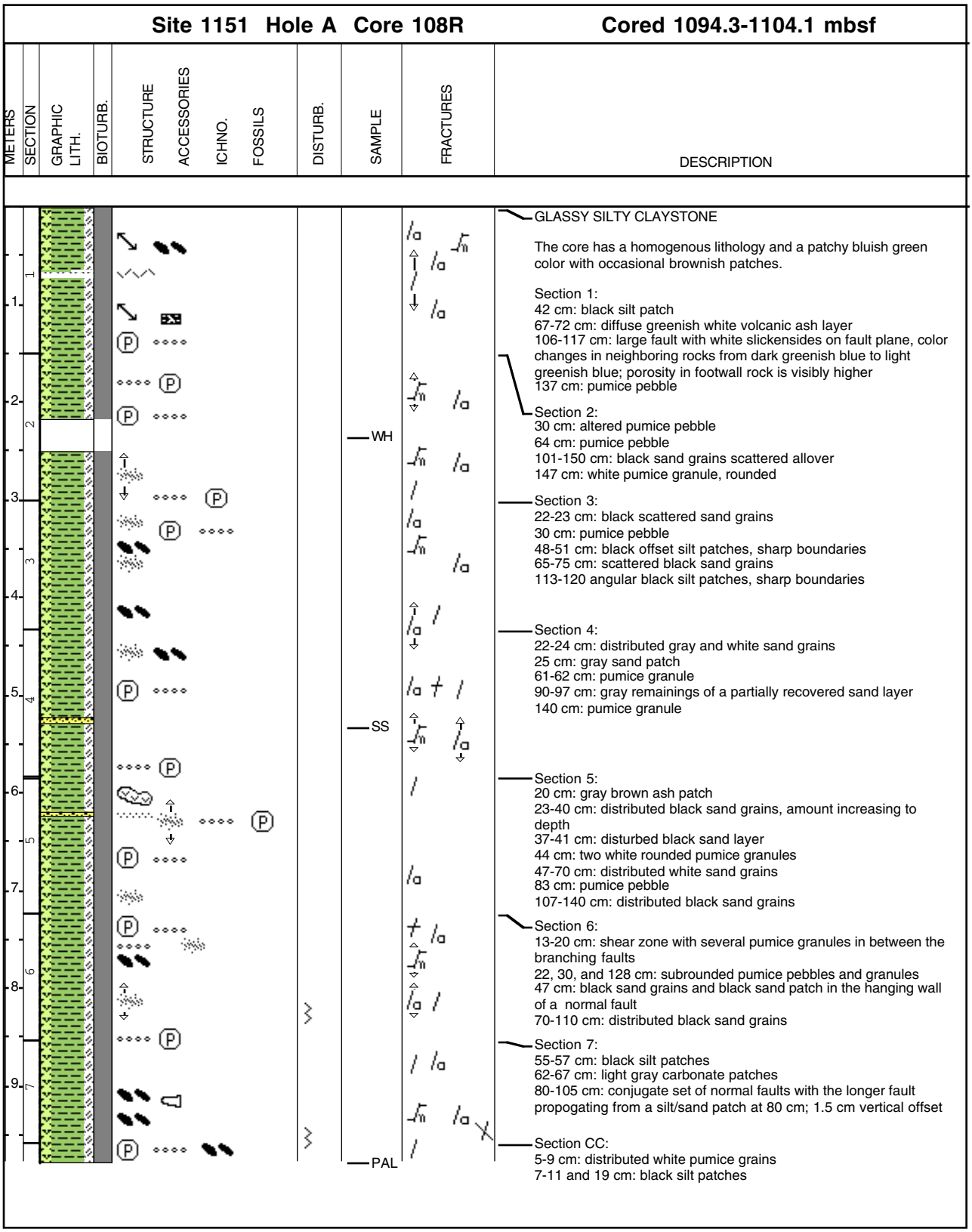
GLASS AND SPICULE-BEARING SILTY CLAYSTONE
The core has a homogenous lithology and a green-blue and brown patchy color.
Section 1:
0-14 cm: gray carbonaceous patches, 1 cm in diameter
23-45 cm: distributed white sand grains
40-44 cm: black sand patches
46-48 cm: black sand layer
60-77 cm: distributed black sand grains
74-77 cm: black sand patches
116 and 127 cm: pumice granule and pebble
Section 2:
33-43 cm: distributed gray sand grains
56 cm: pumice pebble
120-127 cm: normal faults, hanging wall of uppermost fault is strongly brecciated
Section 3:
80-110 cm: normal fault, steep with vertical displacement of 10 cm
Section 4:
19-22 cm: black silt patch
35-40 cm: black precipitation rim around brown patches
40-43 cm: scattered dark sand grains
65 cm: disturbed volcanic ash patch, below this is dark sand
73 cm: white pumice granule
Section 5:
10-43 cm: sparse black sand grains
73 and 140-142 cm: black silt patch
100 cm: black precipitation rim
130-150 cm: white pumice pebbles
Section 6:
21 cm: gray sand patch
23-24 cm: gray inclined volcanic ash layer, some ash patches below
28-32, 99-104, 113-125, and 145-150 cm: distributed gray and black sand grains
41 and 90 cm: white pumice pebbles
64 cm: silt patch
Section 7:
0-12 cm: distributed black sand grains
11-16 cm: white pumice granules
40-55 cm: distributed black sand grains
Section CC:
3-6 cm: black precipitation rim

Core Photo


Site 1151 Hole A Core 108R
Cored 1094.3-1104.1 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
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SAMPLE
FRACTURES
DESCRIPTION
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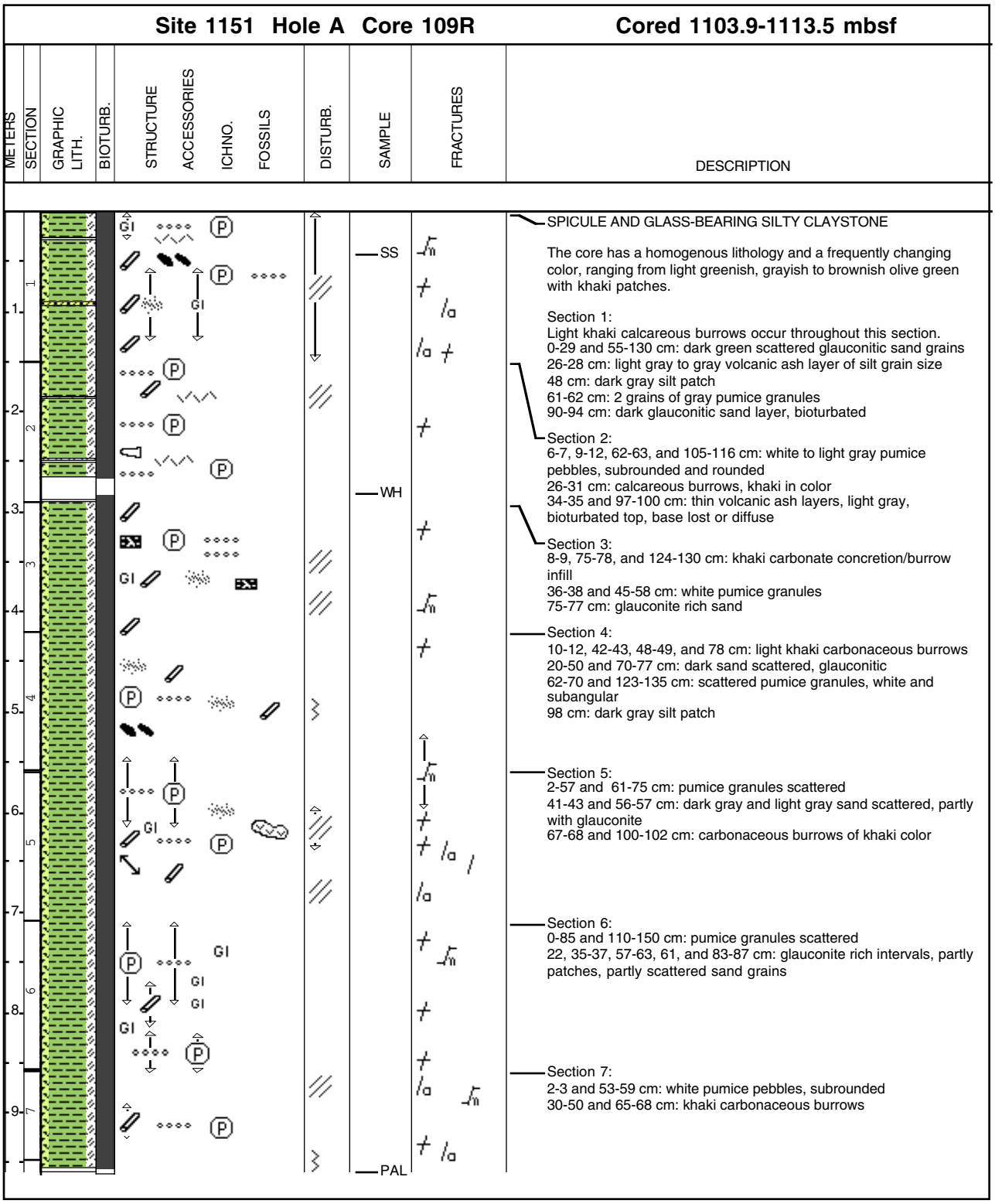
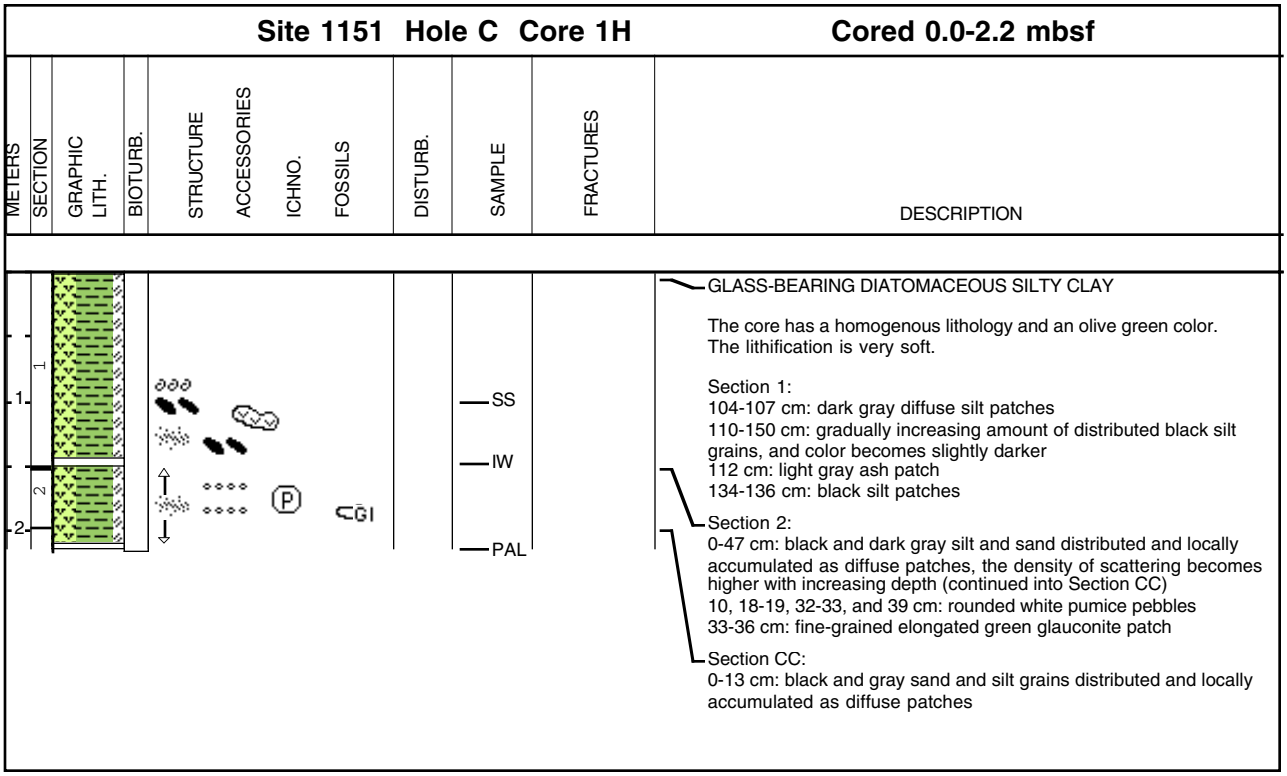
GLASSY SILTY CLAYSTONE
The core has a homogenous lithology and a patchy bluish green color with occasional brownish patches.
Section 1:
42 cm: black silt patch
67-72 cm: diffuse greenish white volcanic ash layer
106-117 cm: large fault with white slickensides on fault plane, color changes in neighboring rocks from dark greenish blue to light greenish blue; porosity in footwall rock is visibly higher
137 cm: pumice pebble
Section 2:
30 cm: altered pumice pebble
64 cm: pumice pebble
101-150 cm: black sand grains scattered allover
147 cm: white pumice granule, rounded
Section 3:
22-23 cm: black scattered sand grains
30 cm: pumice pebble
48-51 cm: black offset silt patches, sharp boundaries
65-75 cm: scattered black sand grains
113-120 angular black silt patches, sharp boundaries
Section 4:
22-24 cm: distributed gray and white sand grains
25 cm: gray sand patch
61-62 cm: pumice granule
90-97 cm: gray remainings of a partially recovered sand layer
140 cm: pumice granule
Section 5:
20 cm: gray brown ash patch
23-40 cm: distributed black sand grains, amount increasing to depth
37-41 cm: disturbed black sand layer
44 cm: two white rounded pumice granules
47-70 cm: distributed white sand grains
83 cm: pumice pebble
107-140 cm: distributed black sand grains
Section 6:
13-20 cm: shear zone with several pumice granules in between the branching faults
22, 30, and 128 cm: subrounded pumice pebbles and granules
47 cm: black sand grains and black sand patch in the hanging wall of a normal fault
70-110 cm: distributed black sand grains
Section 7:
55-57 cm: black silt patches
62-67 cm: light gray carbonate patches
80-105 cm: conjugate set of normal faults with the longer fault propogating from a silt/sand patch at 80 cm; 1.5 cm vertical offset
Section CC:
5-9 cm: distributed white pumice grains
7-11 and 19 cm: black silt patches

Core Photo



HOLE 1151B DRILLED, NOT CORED

Core Photo


Site 1151 Hole C Core 1H
Cored 0.0-2.2 mbsf
METERS
SECTION
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BIOTURB.
STRUCTURE
ACCESSORIES
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FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
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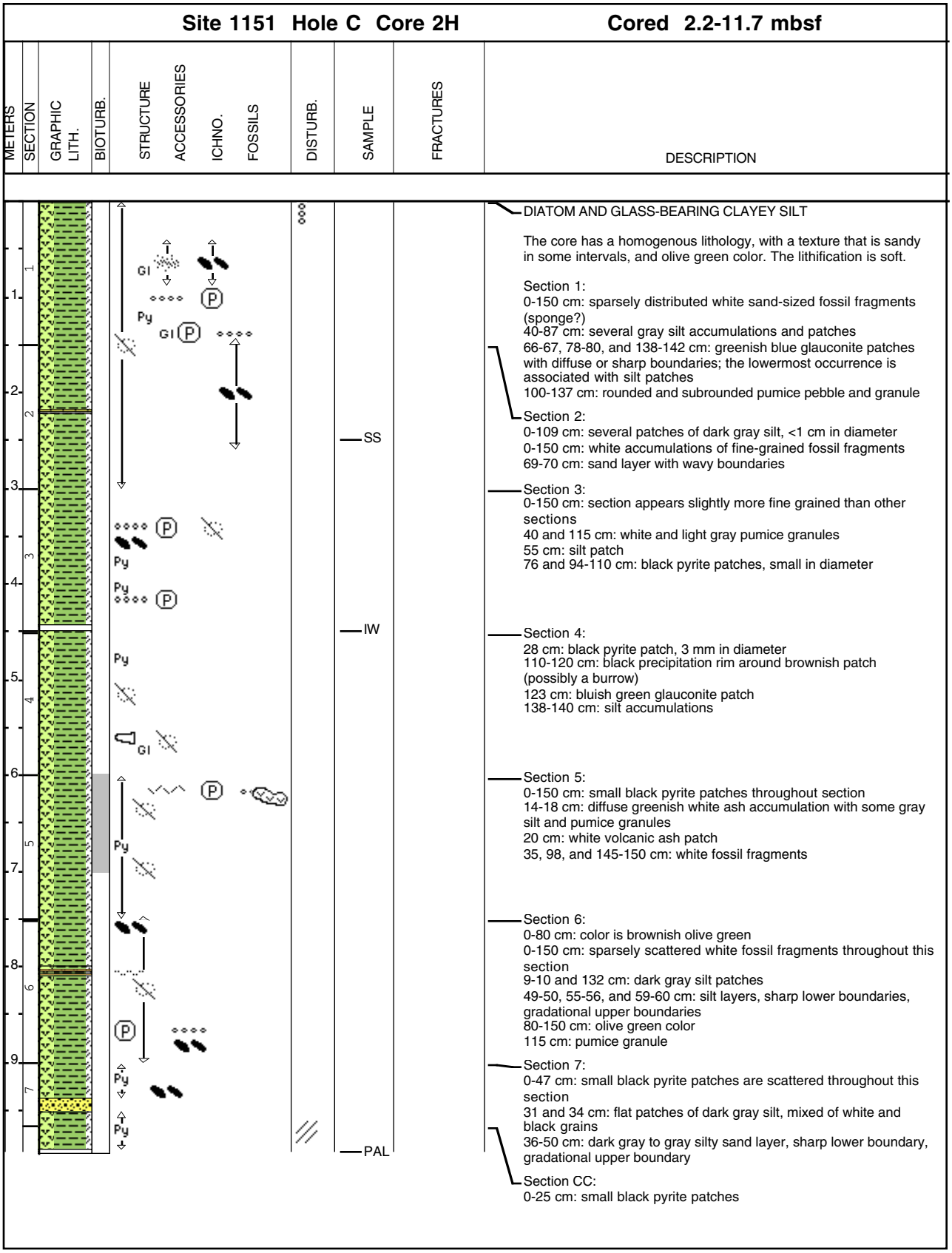
GLASS-BEARING DIATOMACEOUS SILTY CLAY
The core has a homogenous lithology and an olive green color.
The lithification is very soft.
Section 1:
104-107 cm: dark gray diffuse silt patches
110-150 cm: gradually increasing amount of distributed black silt grains, and color becomes slightly darker
112 cm: light gray ash patch
134-136 cm: black silt patches
Section 2:
0-47 cm: black and dark gray silt and sand distributed and locally accumulated as diffuse patches, the density of scattering becomes higher with increasing depth (continued into Section CC)
10, 18-19, 32-33, and 39 cm: rounded white pumice pebbles
33-36 cm: fine-grained elongated green glauconite patch
Section CC:
0-13 cm: black and gray sand and silt grains distributed and locally accumulated as diffuse patches

Core Photo


Site 1151 Hole C Core 2H
Cored 2.2-11.7 mbsf
METERS
SECTION
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STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
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SAMPLE
FRACTURES
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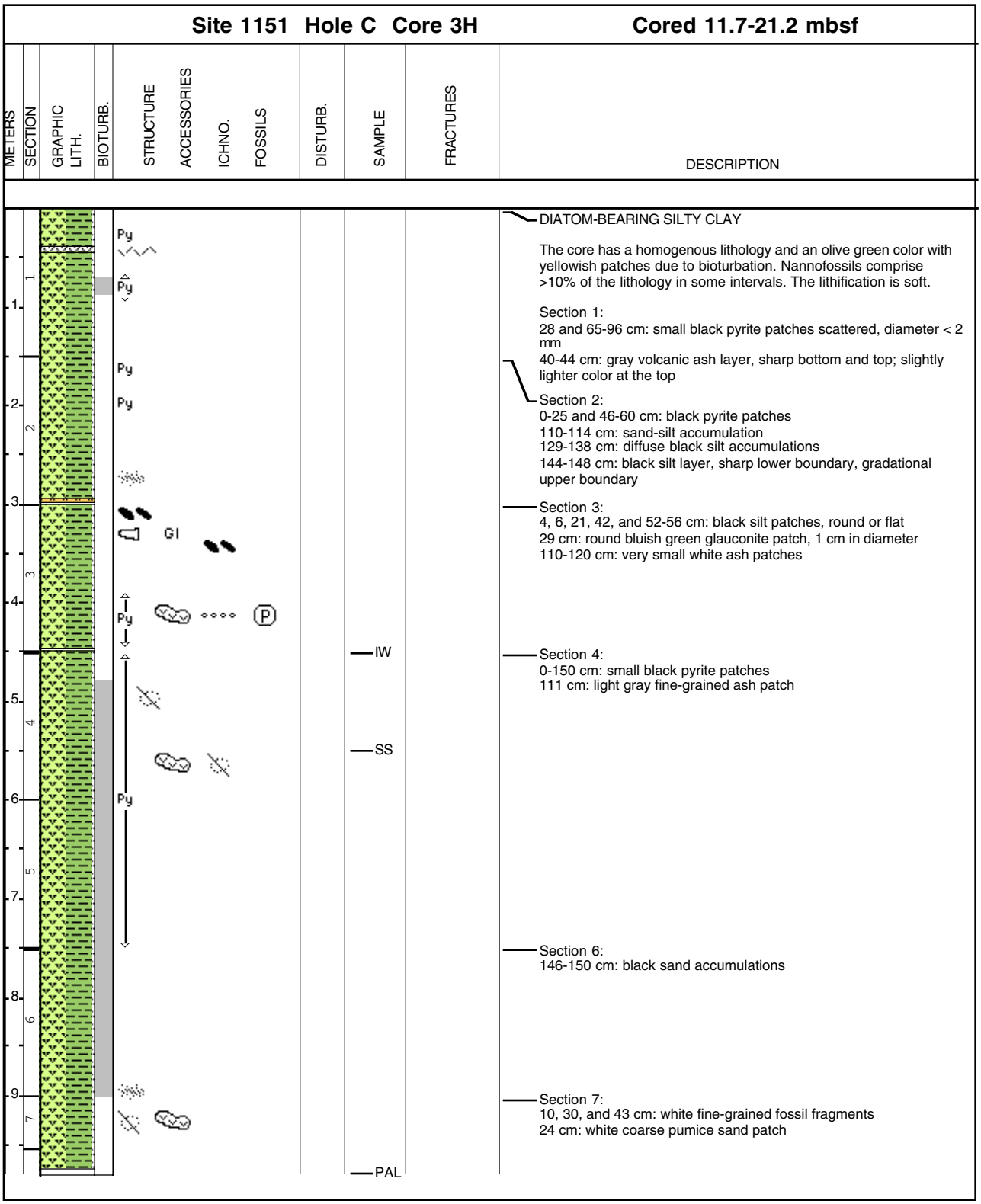
DIATOM AND GLASS-BEARING CLAYEY SILT
The core has a homogenous lithology, with a texture that is sandy in some intervals, and olive green color. The lithification is soft.
Section 1:
0-150 cm: sparsely distributed white sand-sized fossil fragments (sponge?)
40-87 cm: several gray silt accumulations and patches
66-67, 78-80, and 138-142 cm: greenish blue glauconite patches with diffuse or sharp boundaries; the lowermost occurrence is associated with silt patches
100-137 cm: rounded and subrounded pumice pebble and granule
Section 2:
0-109 cm: several patches of dark gray silt, <1 cm in diameter
0-150 cm: white accumulations of fine-grained fossil fragments
69-70 cm: sand layer with wavy boundaries
Section 3:
0-150 cm: section appears slightly more fine grained than other sections
40 and 115 cm: white and light gray pumice granules
55 cm: silt patch
76 and 94-110 cm: black pyrite patches, small in diameter
Section 4:
28 cm: black pyrite patch, 3 mm in diameter
110-120 cm: black precipitation rim around brownish patch (possibly a burrow)
123 cm: bluish green glauconite patch
138-140 cm: silt accumulations
Section 5:
0-150 cm: small black pyrite patches throughout section
14-18 cm: diffuse greenish white ash accumulation with some gray silt and pumice granules
20 cm: white volcanic ash patch
35, 98, and 145-150 cm: white fossil fragments
Section 6:
0-80 cm: color is brownish olive green
0-150 cm: sparsely scattered white fossil fragments throughout this section
9-10 and 132 cm: dark gray silt patches
49-50, 55-56, and 59-60 cm: silt layers, sharp lower boundaries, gradational upper boundaries
80-150 cm: olive green color
115 cm: pumice granule
Section 7:
0-47 cm: small black pyrite patches are scattered throughout this section
31 and 34 cm: flat patches of dark gray silt, mixed of white and black grains
36-50 cm: dark gray to gray silty sand layer, sharp lower boundary, gradational upper boundary
Section CC:
0-25 cm: small black pyrite patches

Core Photo


Site 1151 Hole C Core 3H
Cored 11.7-21.2 mbsf
METERS
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FOSSILS
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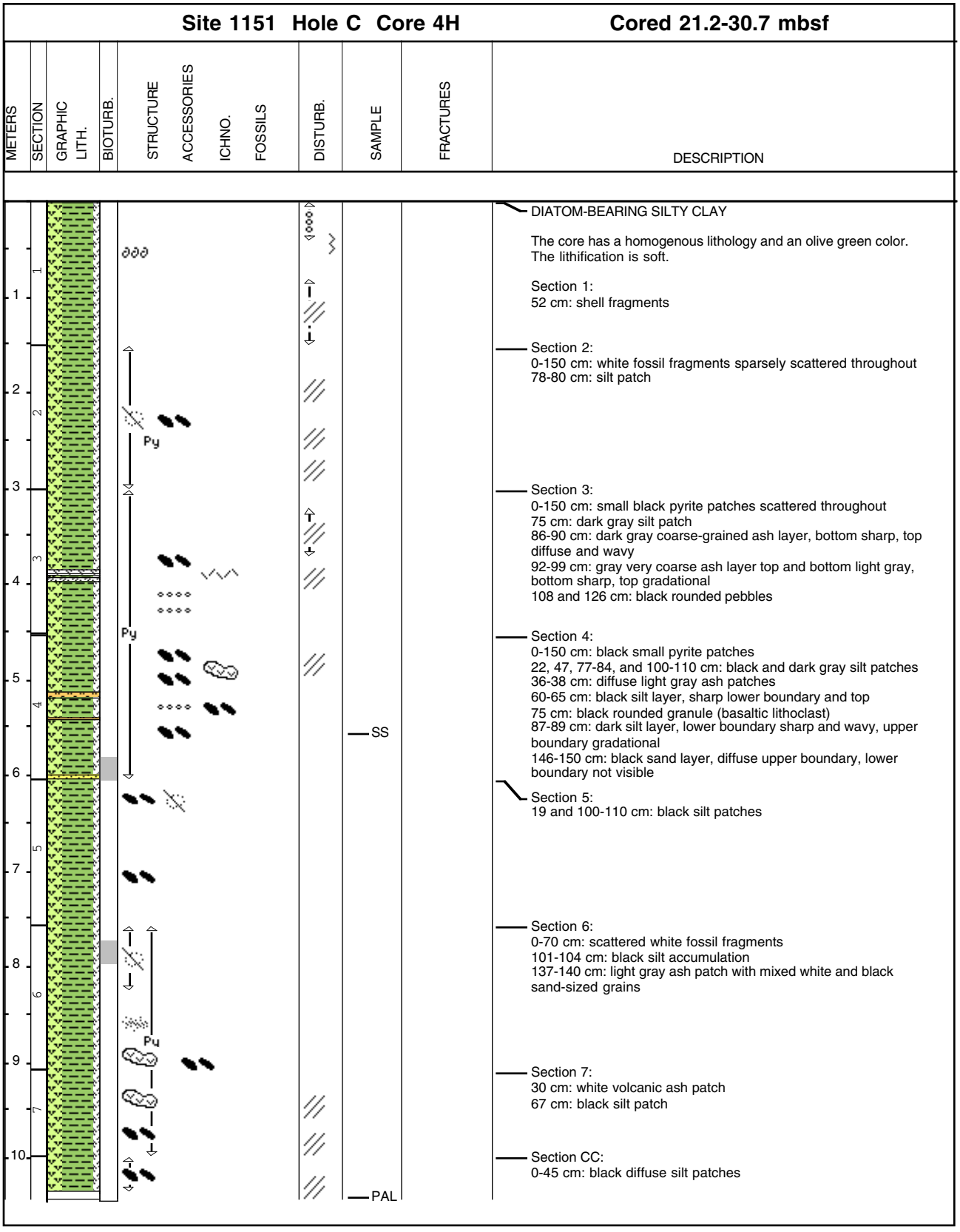
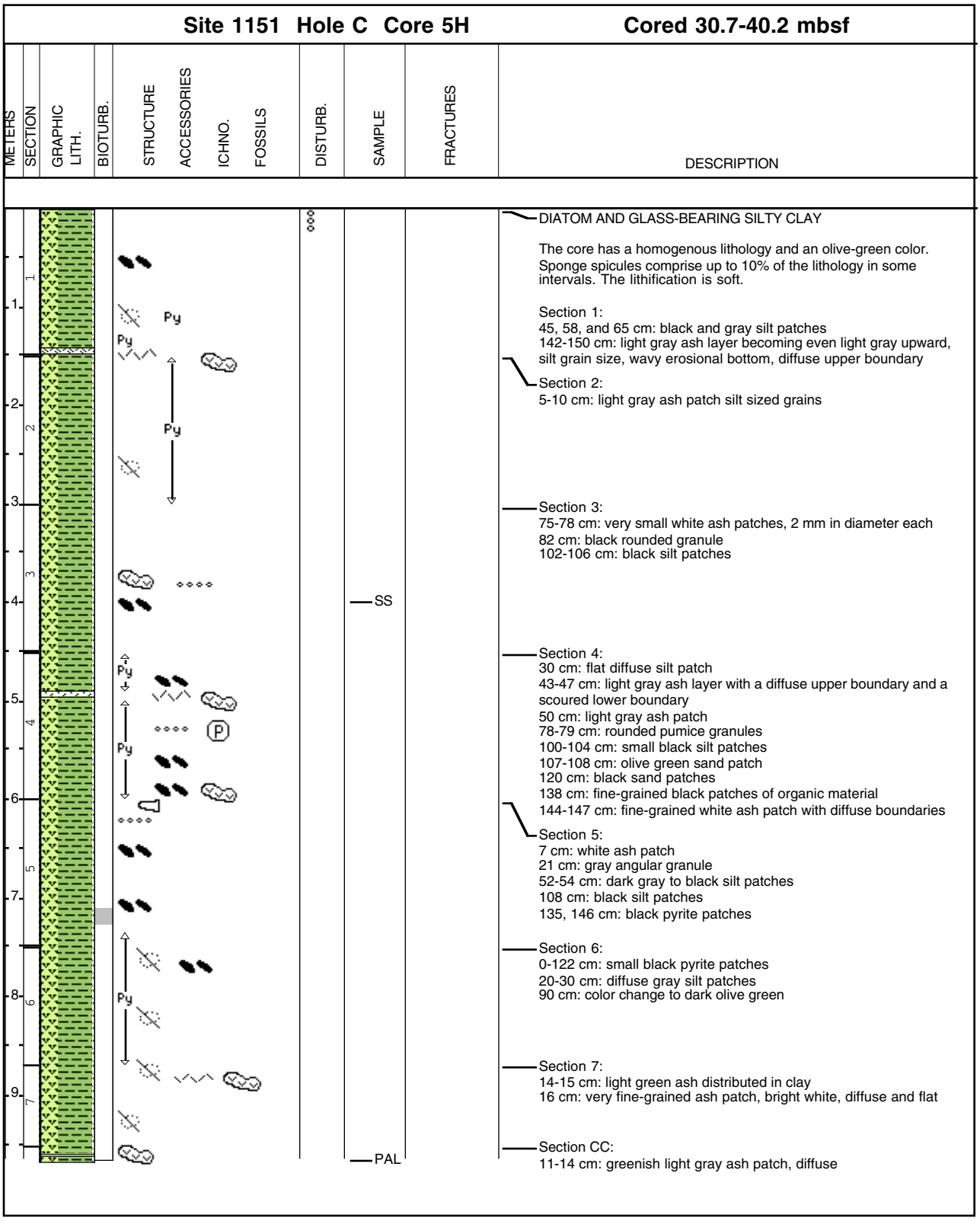
DIATOM-BEARING SILTY CLAY
The core has a homogenous lithology and an olive green color with yellowish patches due to bioturbation. Nannofossils comprise >10% of the lithology in some intervals. The lithification is soft.
Section 1:
28 and 65-96 cm: small black pyrite patches scattered, diameter < 2 mm
40-44 cm: gray volcanic ash layer, sharp bottom and top; slightly lighter color at the top
Section 2:
0-25 and 46-60 cm: black pyrite patches
110-114 cm: sand-silt accumulation
129-138 cm: diffuse black silt accumulations
144-148 cm: black silt layer, sharp lower boundary, gradational upper boundary
Section 3:
4, 6, 21, 42, and 52-56 cm: black silt patches, round or flat
29 cm: round bluish green glauconite patch, 1 cm in diameter
110-120 cm: very small white ash patches
Section 4:
0-150 cm: small black pyrite patches
111 cm: light gray fine-grained ash patch
Section 6:
146-150 cm: black sand accumulations
Section 7:
10, 30, and 43 cm: white fine-grained fossil fragments
24 cm: white coarse pumice sand patch

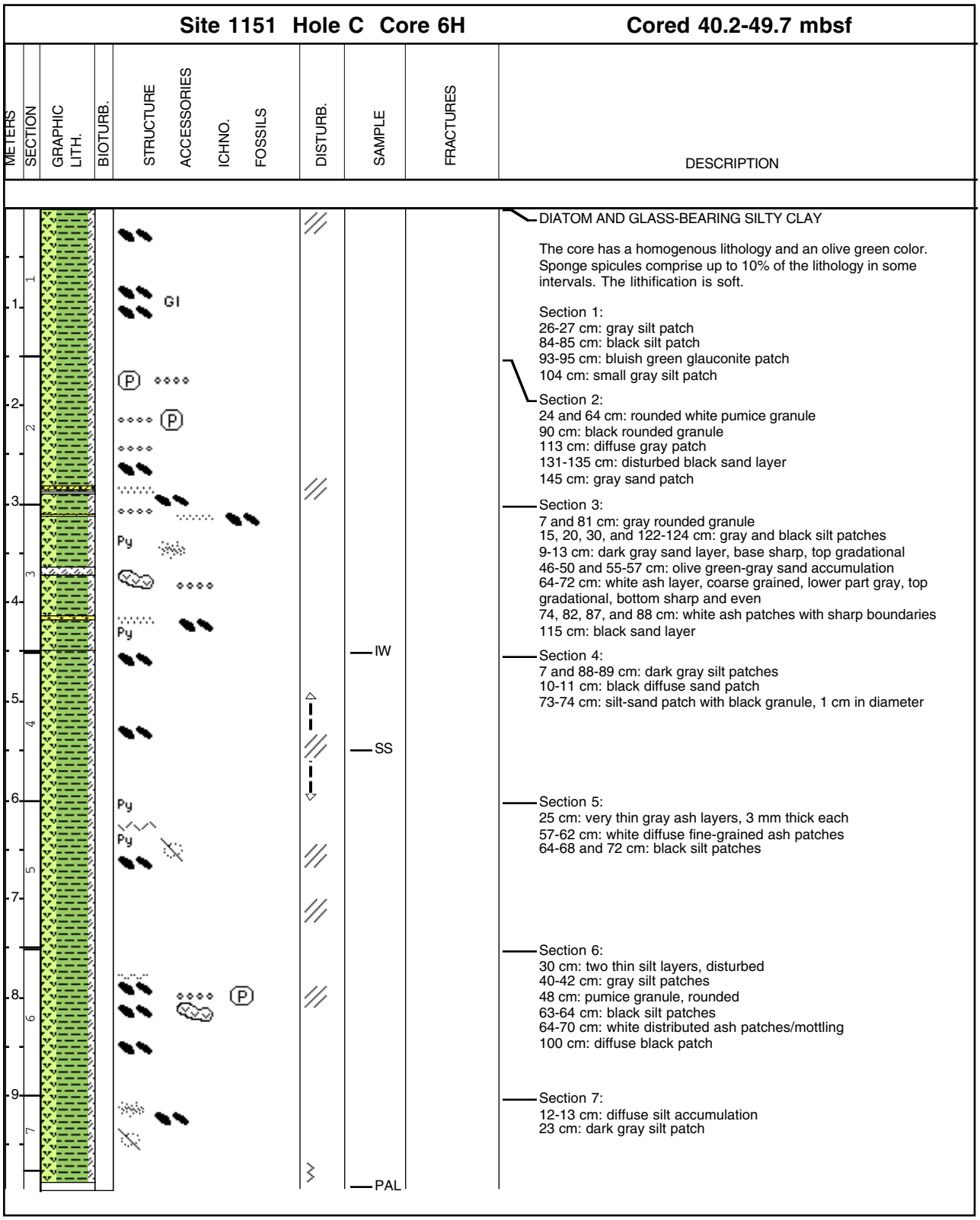
Core Photo


Site 1151 Hole C Core 4H
Cored 21.2-30.7 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
Py
SS
PAL
DIATOM-BEARING SILTY CLAY
The core has a homogenous lithology and an olive green color. The lithification is soft.
Section 1:
52 cm: shell fragments
Section 2:
0-150 cm: white fossil fragments sparsely scattered throughout
78-80 cm: silt patch
Section 3:
0-150 cm: small black pyrite patches scattered throughout
75 cm: dark gray silt patch
86-90 cm: dark gray coarse-grained ash layer, bottom sharp, top diffuse and wavy
92-99 cm: gray very coarse ash layer top and bottom light gray, bottom sharp, top gradational
108 and 126 cm: black rounded pebbles
Section 4:
0-150 cm: black small pyrite patches
22, 47, 77-84, and 100-110 cm: black and dark gray silt patches
36-38 cm: diffuse light gray ash patches
60-65 cm: black silt layer, sharp lower boundary and top
75 cm: black rounded granule (basaltic lithoclast)
87-89 cm: dark silt layer, lower boundary sharp and wavy, upper boundary gradational
146-150 cm: black sand layer, diffuse upper boundary, lower boundary not visible
Section 5:
19 and 100-110 cm: black silt patches
Section 6:
0-70 cm: scattered white fossil fragments
101-104 cm: black silt accumulation
137-140 cm: light gray ash patch with mixed white and black sand-sized grains
Section 7:
30 cm: white volcanic ash patch
67 cm: black silt patch
Section CC:
0-45 cm: black diffuse silt patches

Core Photo


Site 1151 Hole C Core 5H
Cored 30.7-40.2 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
Py
P
SS
PAL
DIATOM AND GLASS-BEARING SILTY CLAY
The core has a homogenous lithology and an olive-green color. Sponge spicules comprise up to 10% of the lithology in some intervals. The lithification is soft.
Section 1:
45, 58, and 65 cm: black and gray silt patches
142-150 cm: light gray ash layer becoming even light gray upward, silt grain size, wavy erosional bottom, diffuse upper boundary
Section 2:
5-10 cm: light gray ash patch silt sized grains
Section 3:
75-78 cm: very small white ash patches, 2 mm in diameter each
82 cm: black rounded granule
102-106 cm: black silt patches
Section 4:
30 cm: flat diffuse silt patch
43-47 cm: light gray ash layer with a diffuse upper boundary and a scoured lower boundary
50 cm: light gray ash patch
78-79 cm: rounded pumice granules
100-104 cm: small black silt patches
107-108 cm: olive green sand patch
120 cm: black sand patches
138 cm: fine-grained black patches of organic material
144-147 cm: fine-grained white ash patch with diffuse boundaries
Section 5:
7 cm: white ash patch
21 cm: gray angular granule
52-54 cm: dark gray to black silt patches
108 cm: black silt patches
135, 146 cm: black pyrite patches
Section 6:
0-122 cm: small black pyrite patches
20-30 cm: diffuse gray silt patches
90 cm: color change to dark olive green
Section 7:
14-15 cm: light green ash distributed in clay
16 cm: very fine-grained ash patch, bright white, diffuse and flat
Section CC:
11-14 cm: greenish light gray ash patch, diffuse

Core Photo


Site 1151 Hole C Core 6H
Cored 40.2-49.7 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
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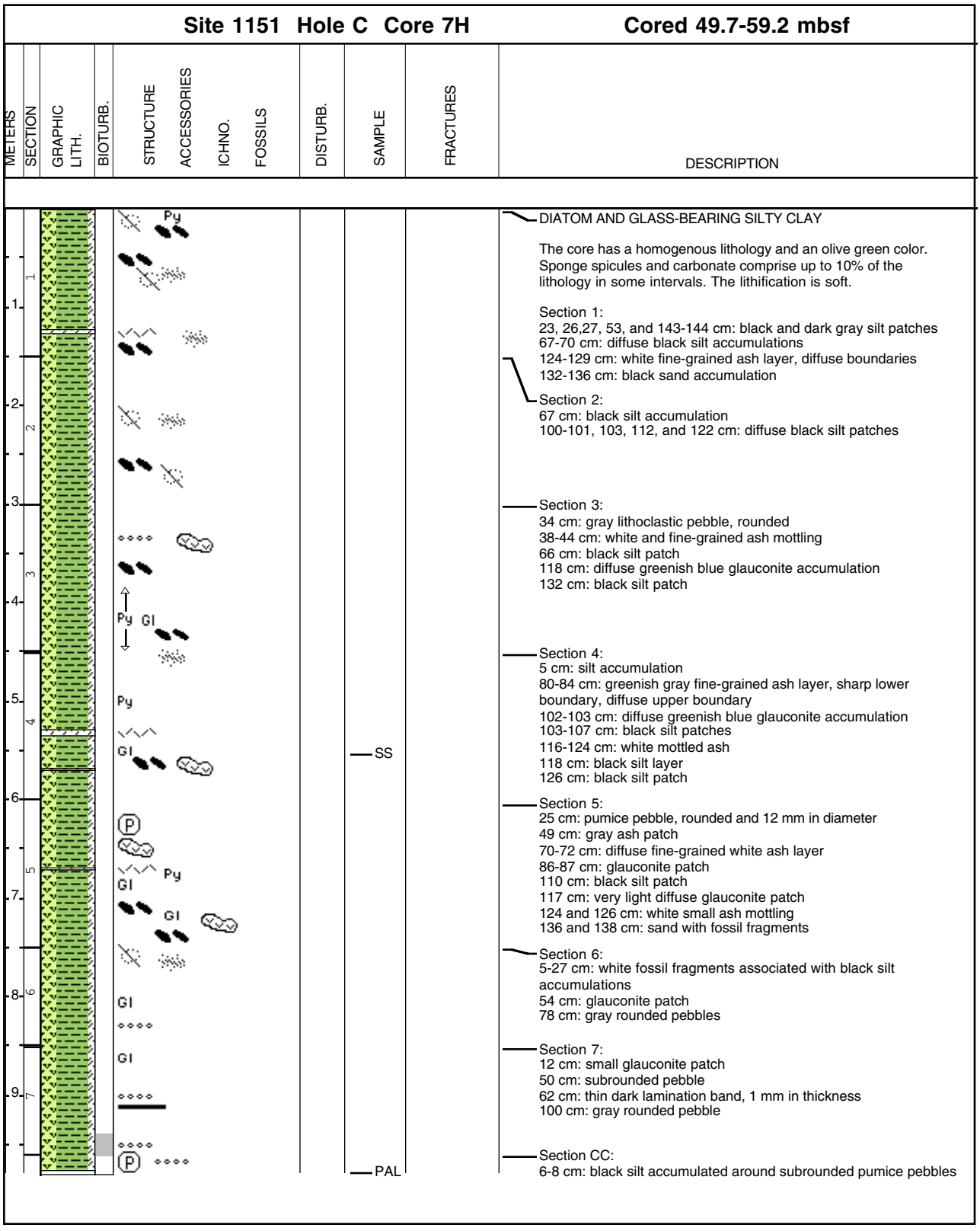
PAL
DIATOM AND GLASS-BEARING SILTY CLAY
The core has a homogenous lithology and an olive green color. Sponge spicules comprise up to 10% of the lithology in some intervals. The lithification is soft.
Section 1:
26-27 cm: gray silt patch
84-85 cm: black silt patch
93-95 cm: bluish green glauconite patch
104 cm: small gray silt patch
Section 2:
24 and 64 cm: rounded white pumice granule
90 cm: black rounded granule
113 cm: diffuse gray patch
131-135 cm: disturbed black sand layer
145 cm: gray sand patch
Section 3:
7 and 81 cm: gray rounded granule
15, 20, 30, and 122-124 cm: gray and black silt patches
9-13 cm: dark gray sand layer, base sharp, top gradational
46-50 and 55-57 cm: olive green-gray sand accumulation
64-72 cm: white ash layer, coarse grained, lower part gray, top gradational, bottom sharp and even
74, 82, 87, and 88 cm: white ash patches with sharp boundaries
115 cm: black sand layer
Section 4:
7 and 88-89 cm: dark gray silt patches
10-11 cm: black diffuse sand patch
73-74 cm: silt-sand patch with black granule, 1 cm in diameter
Section 5:
25 cm: very thin gray ash layers, 3 mm thick each
57-62 cm: white diffuse fine-grained ash patches
64-68 and 72 cm: black silt patches
Section 6:
30 cm: two thin silt layers, disturbed
40-42 cm: gray silt patches
48 cm: pumice granule, rounded
63-64 cm: black silt patches
64-70 cm: white distributed ash patches/mottling
100 cm: diffuse black patch
Section 7:
12-13 cm: diffuse silt accumulation
23 cm: dark gray silt patch

Core Photo


Site 1151 Hole C Core 7H
Cored 49.7-59.2 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
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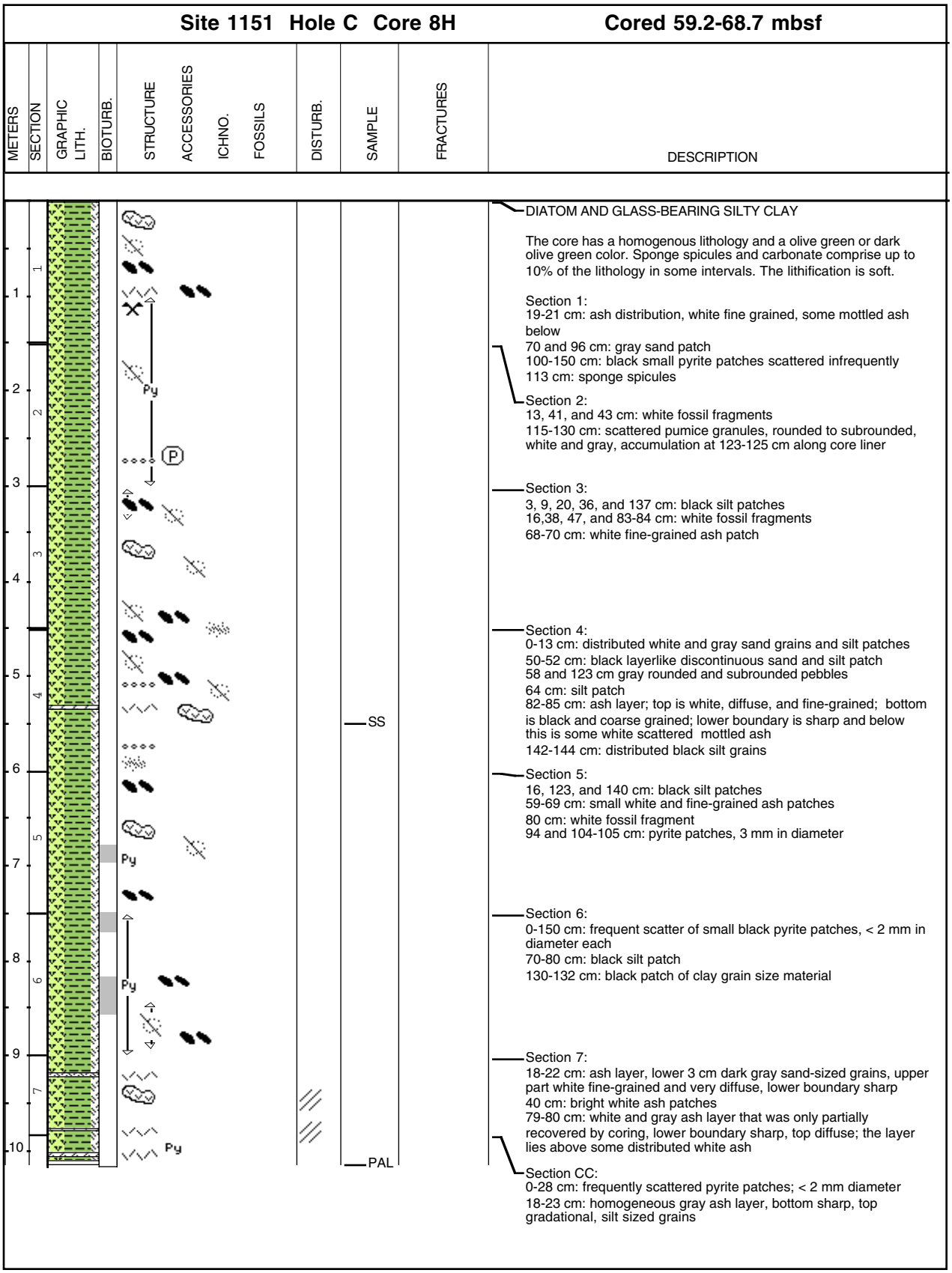
DIATOM AND GLASS-BEARING SILTY CLAY
The core has a homogenous lithology and an olive green color. Sponge spicules and carbonate comprise up to 10% of the lithology in some intervals. The lithification is soft.
Section 1:
23, 26,27, 53, and 143-144 cm: black and dark gray silt patches
67-70 cm: diffuse black silt accumulations
124-129 cm: white fine-grained ash layer, diffuse boundaries
132-136 cm: black sand accumulation
Section 2:
67 cm: black silt accumulation
100-101, 103, 112, and 122 cm: diffuse black silt patches
Section 3:
34 cm: gray lithoclastic pebble, rounded
38-44 cm: white and fine-grained ash mottling
66 cm: black silt patch
118 cm: diffuse greenish blue glauconite accumulation
132 cm: black silt patch
Section 4:
5 cm: silt accumulation
80-84 cm: greenish gray fine-grained ash layer, sharp lower boundary, diffuse upper boundary
102-103 cm: diffuse greenish blue glauconite accumulation
103-107 cm: black silt patches
116-124 cm: white mottled ash
118 cm: black silt layer
126 cm: black silt patch
Section 5:
25 cm: pumice pebble, rounded and 12 mm in diameter
49 cm: gray ash patch
70-72 cm: diffuse fine-grained white ash layer
86-87 cm: glauconite patch
110 cm: black silt patch
117 cm: very light diffuse glauconite patch
124 and 126 cm: white small ash mottling
136 and 138 cm: sand with fossil fragments
Section 6:
5-27 cm: white fossil fragments associated with black silt accumulations
54 cm: glauconite patch
78 cm: gray rounded pebbles
Section 7:
12 cm: small glauconite patch
50 cm: subrounded pebble
62 cm: thin dark lamination band, 1 mm in thickness
100 cm: gray rounded pebble
Section CC:
6-8 cm: black silt accumulated around subrounded pumice pebbles

Core Photo


Site 1151 Hole C Core 8H
Cored 59.2-68.7 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
Py
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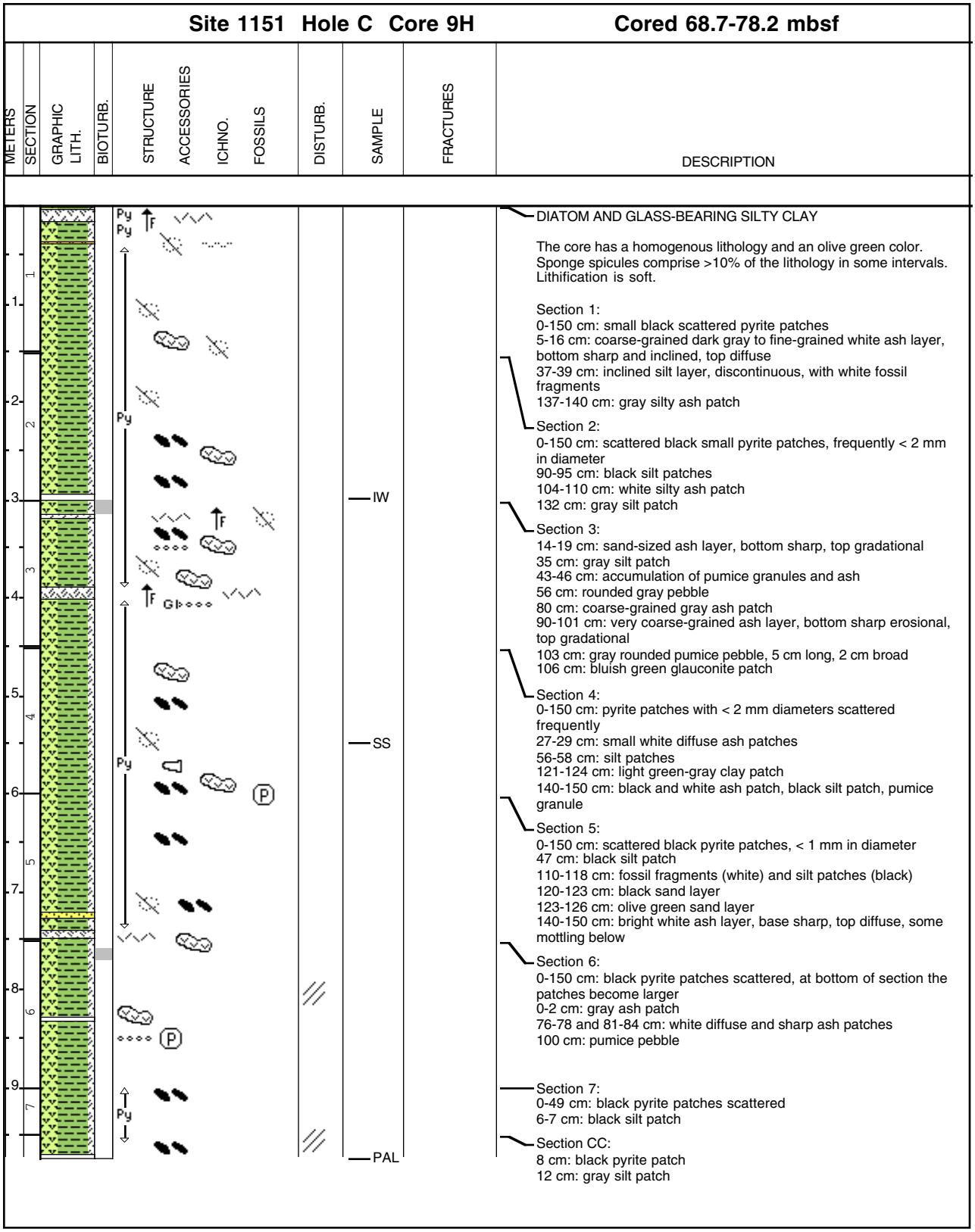
PAL
DIATOM AND GLASS-BEARING SILTY CLAY
The core has a homogenous lithology and a olive green or dark olive green color. Sponge spicules and carbonate comprise up to 10% of the lithology in some intervals. The lithification is soft.
Section 1:
19-21 cm: ash distribution, white fine grained, some mottled ash below
70 and 96 cm: gray sand patch
100-150 cm: black small pyrite patches scattered infrequently
113 cm: sponge spicules
Section 2:
13, 41, and 43 cm: white fossil fragments
115-130 cm: scattered pumice granules, rounded to subrounded, white and gray, accumulation at 123-125 cm along core liner
Section 3:
3, 9, 20, 36, and 137 cm: black silt patches
16,38, 47, and 83-84 cm: white fossil fragments
68-70 cm: white fine-grained ash patch
Section 4:
0-13 cm: distributed white and gray sand grains and silt patches
50-52 cm: black layerlike discontinuous sand and silt patch
58 and 123 cm gray rounded and subrounded pebbles
64 cm: silt patch
82-85 cm: ash layer; top is white, diffuse, and fine-grained; bottom is black and coarse grained; lower boundary is sharp and below this is some white scattered mottled ash
142-144 cm: distributed black silt grains
Section 5:
16, 123, and 140 cm: black silt patches
59-69 cm: small white and fine-grained ash patches
80 cm: white fossil fragment
94 and 104-105 cm: pyrite patches, 3 mm in diameter
Section 6:
0-150 cm: frequent scatter of small black pyrite patches, < 2 mm in diameter each
70-80 cm: black silt patch
130-132 cm: black patch of clay grain size material
Section 7:
18-22 cm: ash layer, lower 3 cm dark gray sand-sized grains, upper part white fine-grained and very diffuse, lower boundary sharp
40 cm: bright white ash patches
79-80 cm: white and gray ash layer that was only partially recovered by coring, lower boundary sharp, top diffuse; the layer lies above some distributed white ash
Section CC:
0-28 cm: frequently scattered pyrite patches; < 2 mm diameter
18-23 cm: homogeneous gray ash layer, bottom sharp, top gradational, silt sized grains

Core Photo


Site 1151 Hole C Core 9H
Cored 68.7-78.2 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
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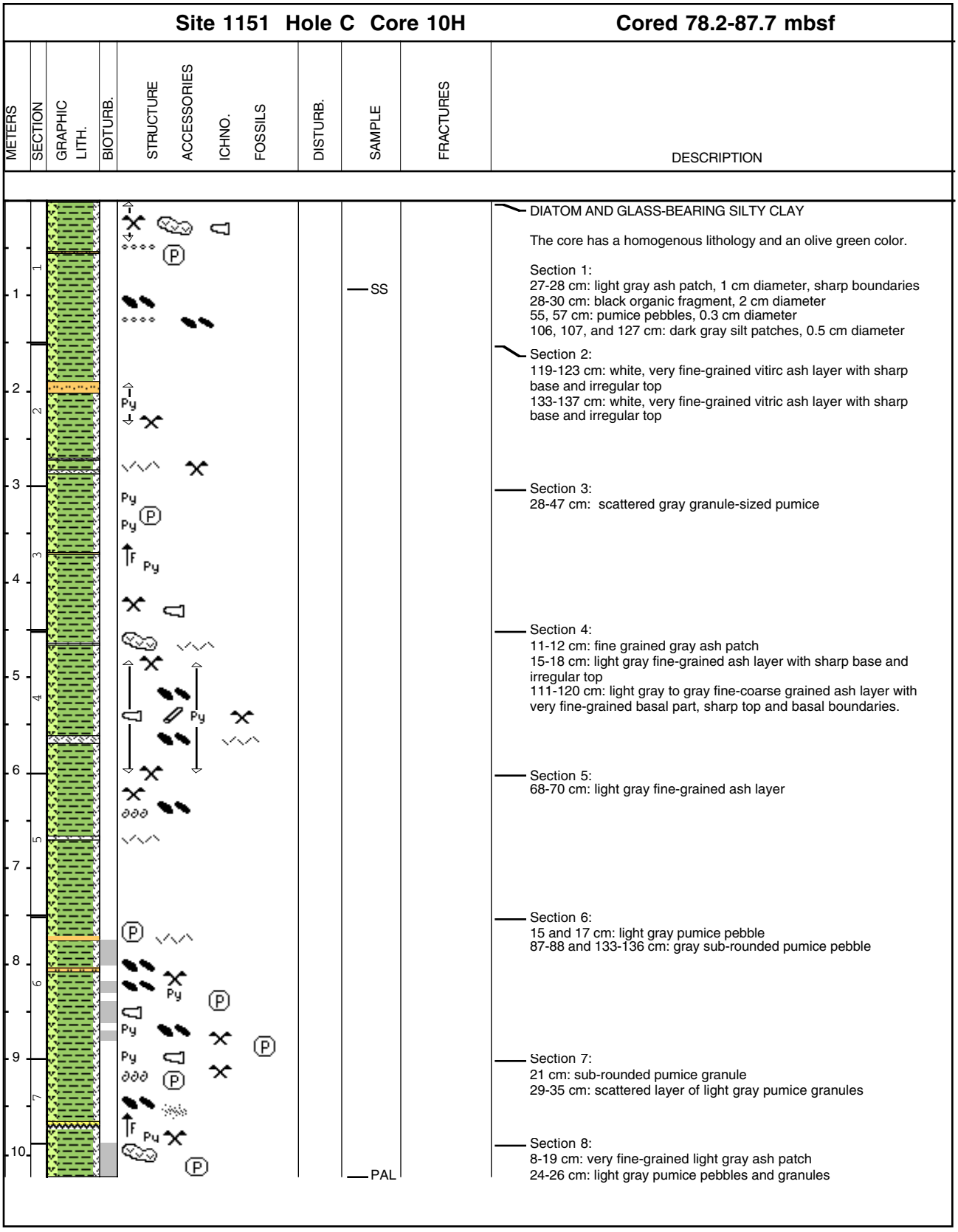
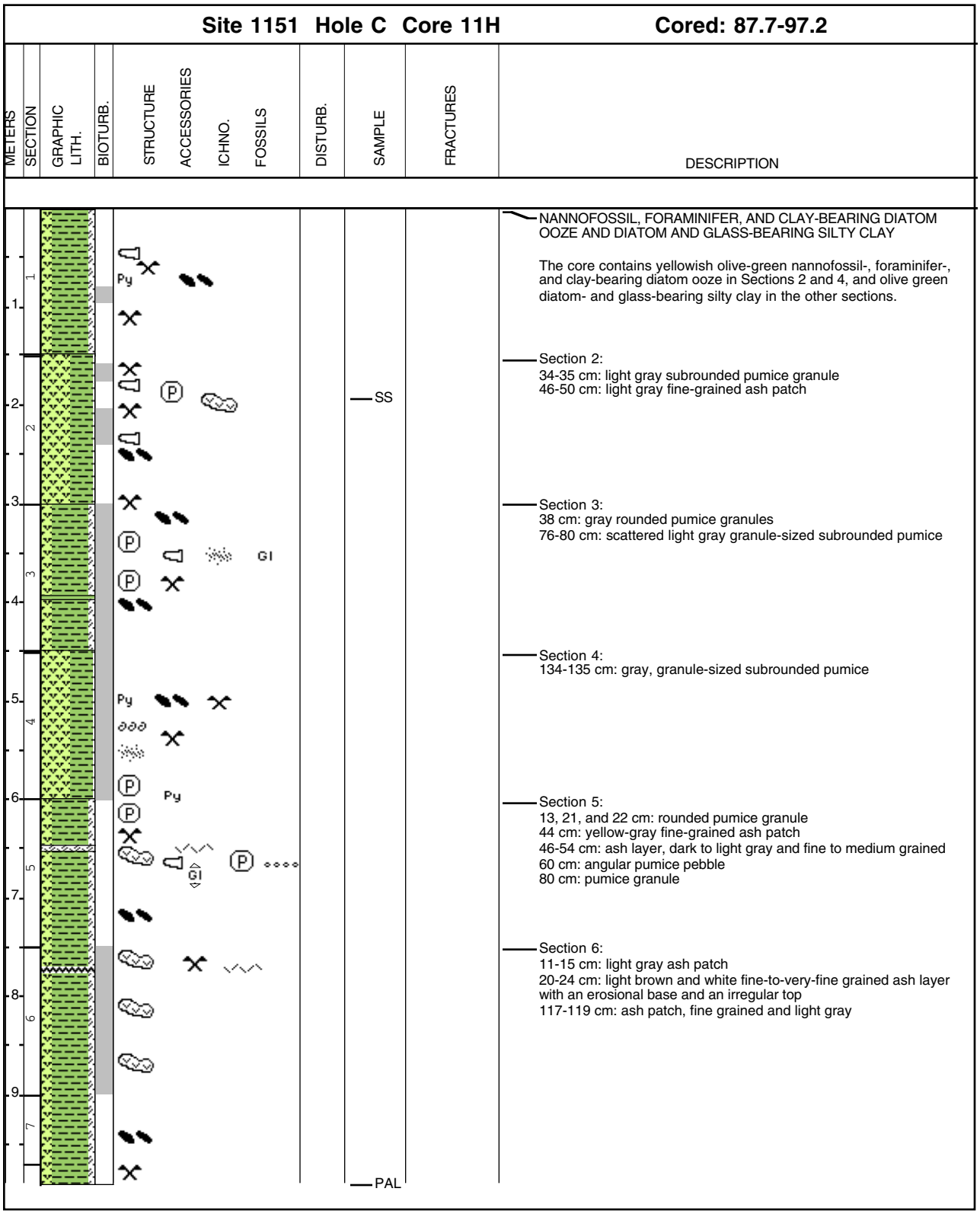
PAL
DIATOM AND GLASS-BEARING SILTY CLAY
The core has a homogenous lithology and an olive green color. Sponge spicules comprise >10% of the lithology in some intervals. Lithification is soft.
Section 1:
0-150 cm: small black scattered pyrite patches
5-16 cm: coarse-grained dark gray to fine-grained white ash layer, bottom sharp and inclined, top diffuse
37-39 cm: inclined silt layer, discontinuous, with white fossil fragments
137-140 cm: gray silty ash patch
Section 2:
0-150 cm: scattered black small pyrite patches, frequently < 2 mm in diameter
90-95 cm: black silt patches
104-110 cm: white silty ash patch
132 cm: gray silt patch
Section 3:
14-19 cm: sand-sized ash layer, bottom sharp, top gradational
35 cm: gray silt patch
43-46 cm: accumulation of pumice granules and ash
56 cm: rounded gray pebble
80 cm: coarse-grained gray ash patch
90-101 cm: very coarse-grained ash layer, bottom sharp erosional, top gradational
103 cm: gray rounded pumice pebble, 5 cm long, 2 cm broad
106 cm: bluish green glauconite patch
Section 4:
0-150 cm: pyrite patches with < 2 mm diameters scattered frequently
27-29 cm: small white diffuse ash patches
56-58 cm: silt patches
121-124 cm: light green-gray clay patch
140-150 cm: black and white ash patch, black silt patch, pumice granule
Section 5:
0-150 cm: scattered black pyrite patches, < 1 mm in diameter
47 cm: black silt patch
110-118 cm: fossil fragments (white) and silt patches (black)
120-123 cm: black sand layer
123-126 cm: olive green sand layer
140-150 cm: bright white ash layer, base sharp, top diffuse, some mottling below
Section 6:
0-150 cm: black pyrite patches scattered, at bottom of section the patches become larger
0-2 cm: gray ash patch
76-78 and 81-84 cm: white diffuse and sharp ash patches
100 cm: pumice pebble
Section 7:
0-49 cm: black pyrite patches scattered
6-7 cm: black silt patch
Section CC:
8 cm: black pyrite patch
12 cm: gray silt patch

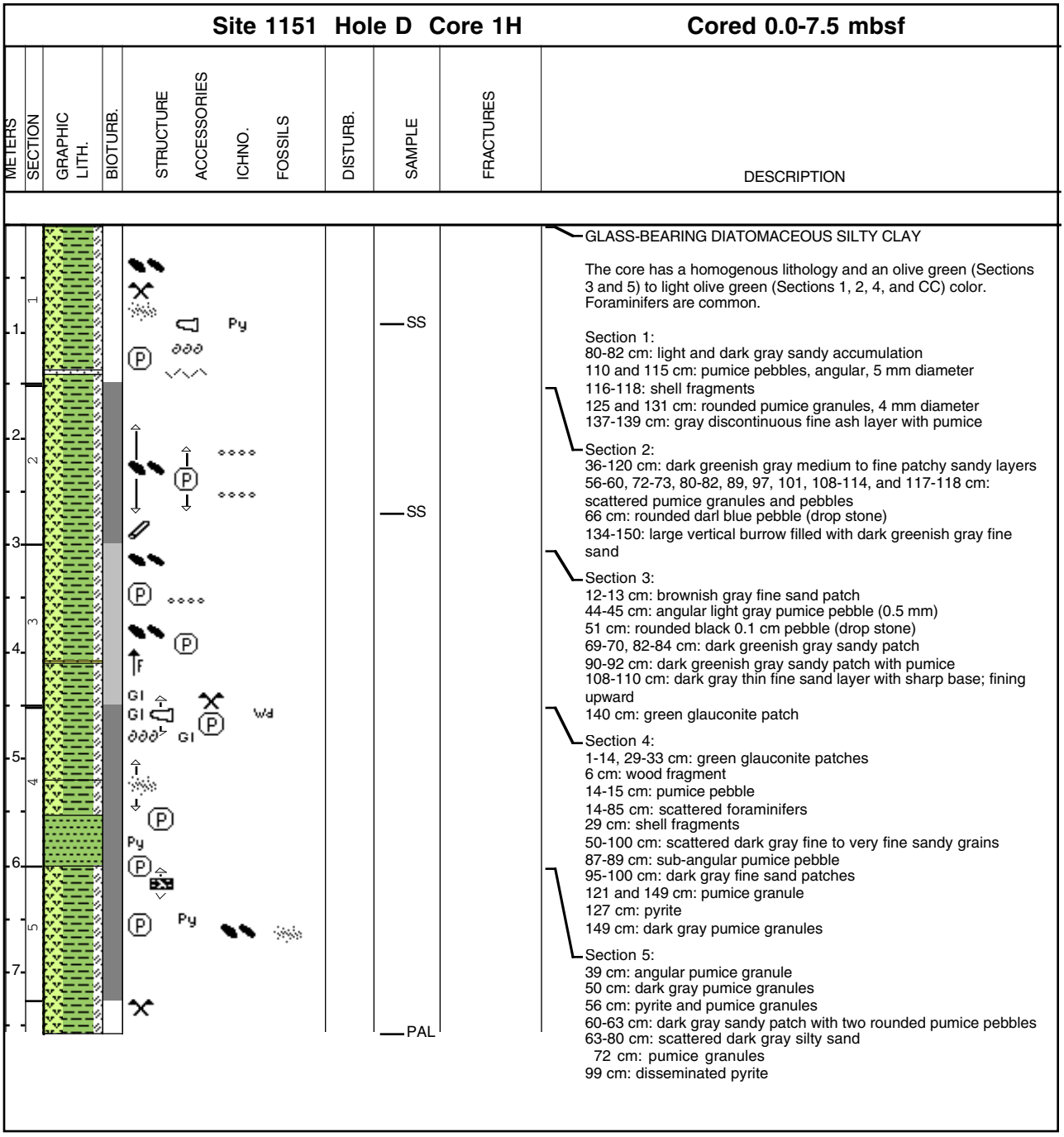
Core Photo


Site 1151 Hole C Core 10H
Cored 78.2-87.7 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
PAL
DIATOM AND GLASS-BEARING SILTY CLAY
The core has a homogenous lithology and an olive green color.
Section 1:
27-28 cm: light gray ash patch, 1 cm diameter, sharp boundaries
28-30 cm: black organic fragment, 2 cm diameter
55, 57 cm: pumice pebbles, 0.3 cm diameter
106, 107, and 127 cm: dark gray silt patches, 0.5 cm diameter
Section 2:
119-123 cm: white, very fine-grained vitirc ash layer with sharp base and irregular top
133-137 cm: white, very fine-grained vitric ash layer with sharp base and irregular top
Section 3:
28-47 cm: scattered gray granule-sized pumice
Section 4:
11-12 cm: fine grained gray ash patch
15-18 cm: light gray fine-grained ash layer with sharp base and irregular top
111-120 cm: light gray to gray fine-coarse grained ash layer with very fine-grained basal part, sharp top and basal boundaries.
Section 5:
68-70 cm: light gray fine-grained ash layer
Section 6:
15 and 17 cm: light gray pumice pebble
87-88 and 133-136 cm: gray sub-rounded pumice pebble
Section 7:
21 cm: sub-rounded pumice granule
29-35 cm: scattered layer of light gray pumice granules
Section 8:
8-19 cm: very fine-grained light gray ash patch
24-26 cm: light gray pumice pebbles and granules

Core Photo


Site 1151 Hole C Core 11H Cored: 87.7-97.2
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
PAL
NANNOFOSSIL, FORAMINIFER, AND CLAY-BEARING DIATOM OOZE AND DIATOM AND GLASS-BEARING SILTY CLAY
The core contains yellowish olive-green nannofossil-, foraminifer-, and clay-bearing diatom ooze in Sections 2 and 4, and olive green diatom- and glass-bearing silty clay in the other sections.
Section 2:
34-35 cm: light gray subrounded pumice granule
46-50 cm: light gray fine-grained ash patch
Section 3:
38 cm: gray rounded pumice granules
76-80 cm: scattered light gray granule-sized subrounded pumice
Section 4:
134-135 cm: gray, granule-sized subrounded pumice
Section 5:
13, 21, and 22 cm: rounded pumice granule
44 cm: yellow-gray fine-grained ash patch
46-54 cm: ash layer, dark to light gray and fine to medium grained
60 cm: angular pumice pebble
80 cm: pumice granule
Section 6:
11-15 cm: light gray ash patch
20-24 cm: light brown and white fine-to-very-fine grained ash layer with an erosional base and an irregular top
117-119 cm: ash patch, fine grained and light gray

Core Photo


Site 1151 Hole D Core 1H
Cored 0.0-7.5 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
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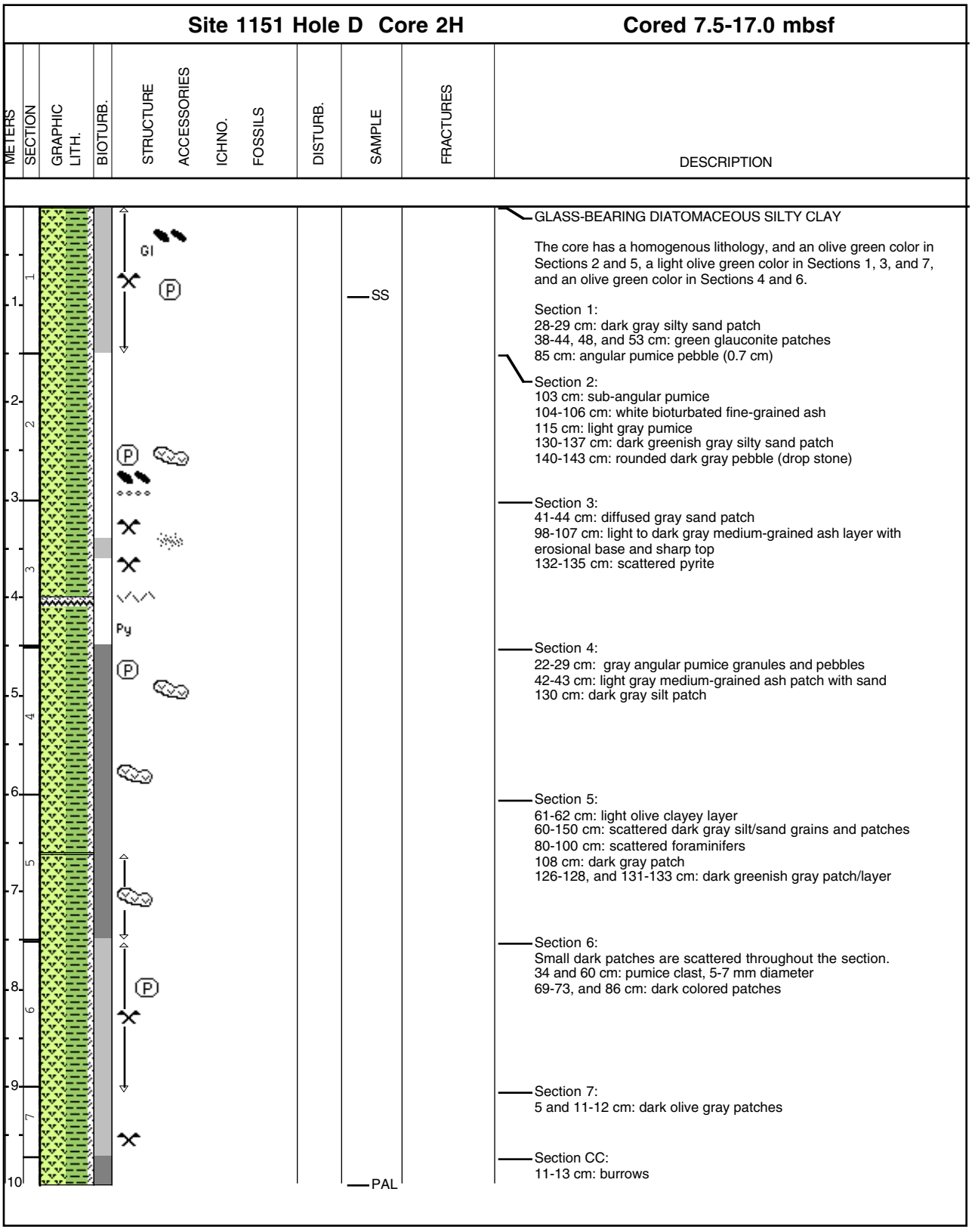
PAL
GLASS-BEARING DIATOMACEOUS SILTY CLAY
The core has a homogenous lithology and an olive green (Sections 3 and 5) to light olive green (Sections 1, 2, 4, and CC) color. Foraminifers are common.
Section 1:
80-82 cm: light and dark gray sandy accumulation
110 and 115 cm: pumice pebbles, angular, 5 mm diameter
116-118: shell fragments
125 and 131 cm: rounded pumice granules, 4 mm diameter
137-139 cm: gray discontinuous fine ash layer with pumice
Section 2:
36-120 cm: dark greenish gray medium to fine patchy sandy layers
56-60, 72-73, 80-82, 89, 97, 101, 108-114, and 117-118 cm: scattered pumice granules and pebbles
66 cm: rounded darl blue pebble (drop stone)
134-150: large vertical burrow filled with dark greenish gray fine sand
Section 3:
12-13 cm: brownish gray fine sand patch
44-45 cm: angular light gray pumice pebble (0.5 mm)
51 cm: rounded black 0.1 cm pebble (drop stone)
69-70, 82-84 cm: dark greenish gray sandy patch
90-92 cm: dark greenish gray sandy patch with pumice
108-110 cm: dark gray thin fine sand layer with sharp base; fining upward
140 cm: green glauconite patch
Section 4:
1-14, 29-33 cm: green glauconite patches
6 cm: wood fragment
14-15 cm: pumice pebble
14-85 cm: scattered foraminifers
29 cm: shell fragments
50-100 cm: scattered dark gray fine to very fine sandy grains
87-89 cm: sub-angular pumice pebble
95-100 cm: dark gray fine sand patches
121 and 149 cm: pumice granule
127 cm: pyrite
149 cm: dark gray pumice granules
Section 5:
39 cm: angular pumice granule
50 cm: dark gray pumice granules
56 cm: pyrite and pumice granules
60-63 cm: dark gray sandy patch with two rounded pumice pebbles
63-80 cm: scattered dark gray silty sand
72 cm: pumice granules
99 cm: disseminated pyrite

Core Photo


Site 1151 Hole D Core 2H
Cored 7.5-17.0 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
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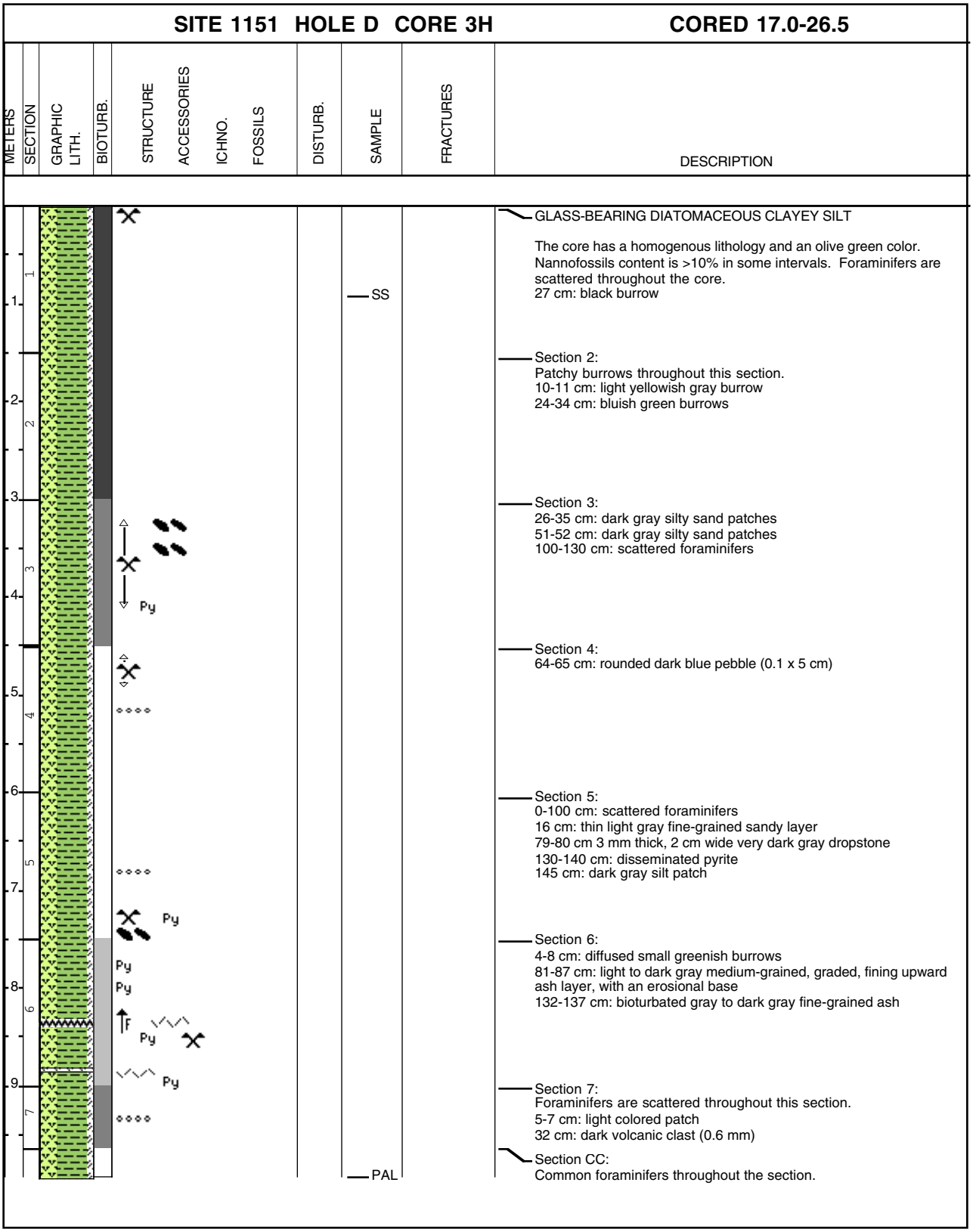
GLASS-BEARING DIATOMACEOUS SILTY CLAY
The core has a homogenous lithology, and an olive green color in Sections 2 and 5, a light olive green color in Sections 1, 3, and 7, and an olive green color in Sections 4 and 6.
Section 1:
28-29 cm: dark gray silty sand patch
38-44, 48, and 53 cm: green glauconite patches
85 cm: angular pumice pebble (0.7 cm)
Section 2:
103 cm: sub-angular pumice
104-106 cm: white bioturbated fine-grained ash
115 cm: light gray pumice
130-137 cm: dark greenish gray silty sand patch
140-143 cm: rounded dark gray pebble (drop stone)
Section 3:
41-44 cm: diffused gray sand patch
98-107 cm: light to dark gray medium-grained ash layer with erosional base and sharp top
132-135 cm: scattered pyrite
Section 4:
22-29 cm: gray angular pumice granules and pebbles
42-43 cm: light gray medium-grained ash patch with sand
130 cm: dark gray silt patch
Section 5:
61-62 cm: light olive clayey layer
60-150 cm: scattered dark gray silt/sand grains and patches
80-100 cm: scattered foraminifers
108 cm: dark gray patch
126-128, and 131-133 cm: dark greenish gray patch/layer
Section 6:
Small dark patches are scattered throughout the section.
34 and 60 cm: pumice clast, 5-7 mm diameter
69-73, and 86 cm: dark colored patches
Section 7:
5 and 11-12 cm: dark olive gray patches
Section CC:
11-13 cm: burrows

Core Photo


SITE 1151 HOLE D CORE 3H
CORED 17.0-26.5
METERS
SECTION
GRAPHIC LITH.
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STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
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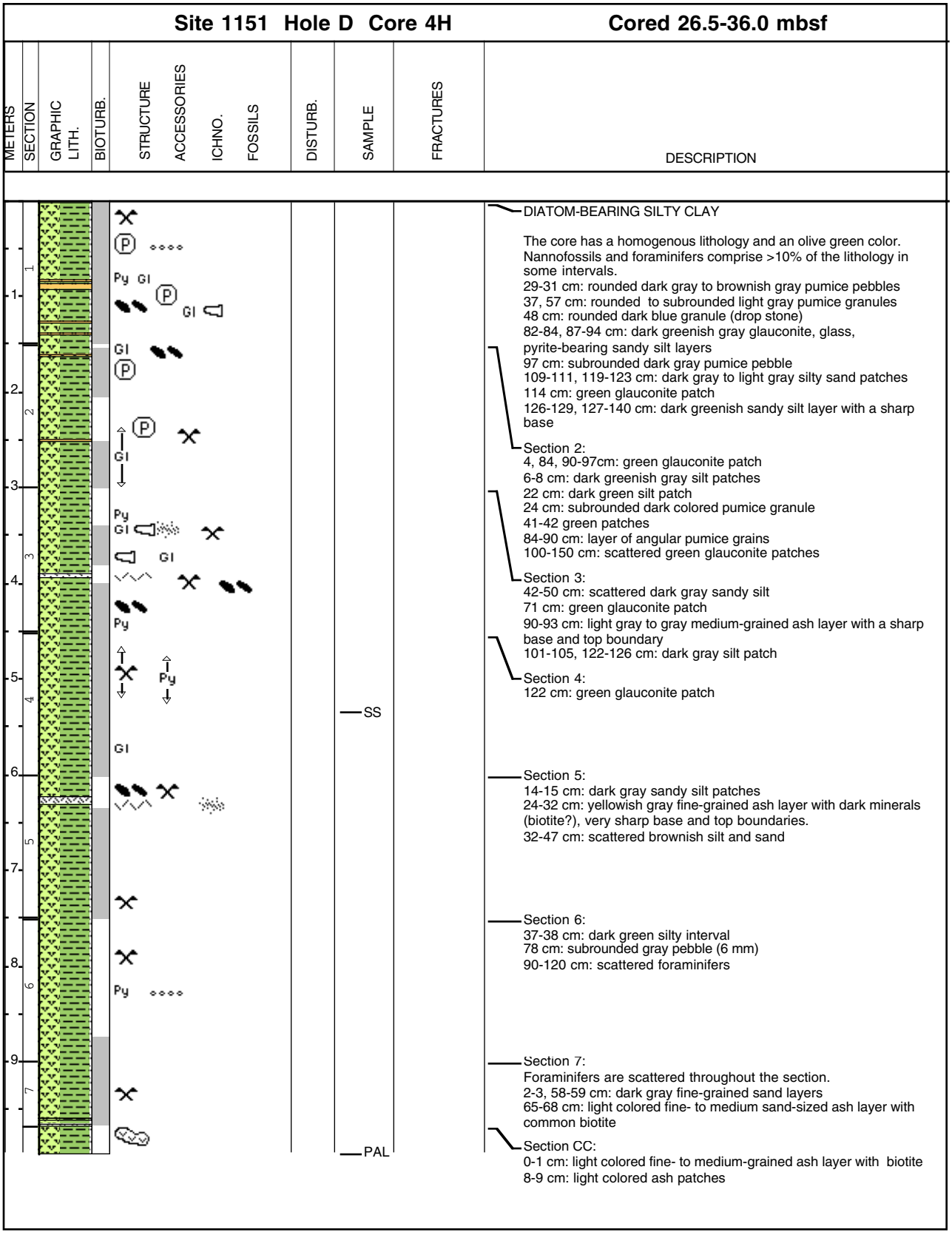
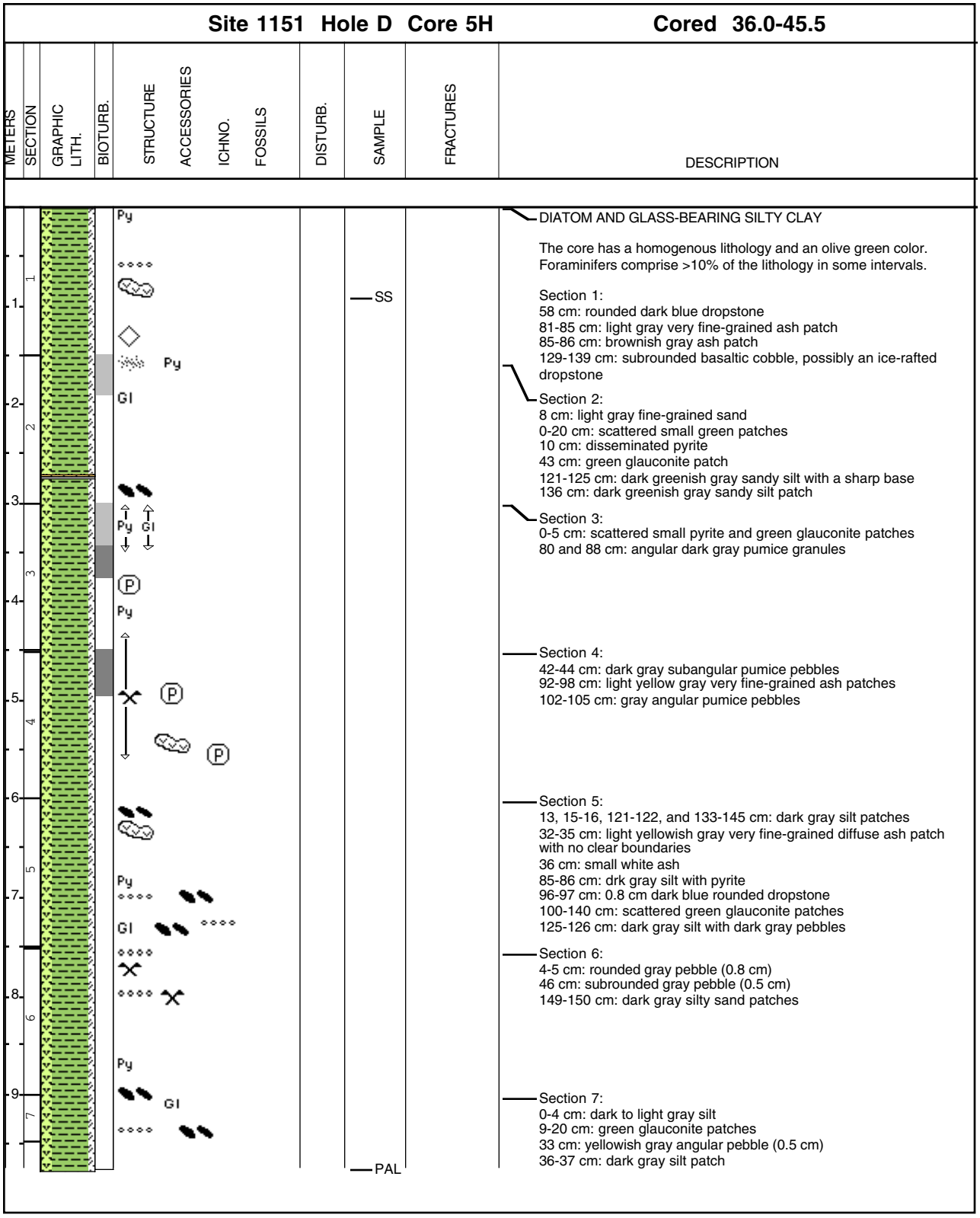
Py
GLASS-BEARING DIATOMACEOUS CLAYEY SILT
The core has a homogenous lithology and an olive green color. Nannofossils content is >10% in some intervals. Foraminifers are scattered throughout the core.
27 cm: black burrow
Section 2:
Patchy burrows throughout this section.
10-11 cm: light yellowish gray burrow
24-34 cm: bluish green burrows
Section 3:
26-35 cm: dark gray silty sand patches
51-52 cm: dark gray silty sand patches
100-130 cm: scattered foraminifers
Section 4:
64-65 cm: rounded dark blue pebble (0.1 x 5 cm)
Section 5:
0-100 cm: scattered foraminifers
16 cm: thin light gray fine-grained sandy layer
79-80 cm 3 mm thick, 2 cm wide very dark gray dropstone
130-140 cm: disseminated pyrite
145 cm: dark gray silt patch
Section 6:
4-8 cm: diffused small greenish burrows
81-87 cm: light to dark gray medium-grained, graded, fining upward ash layer, with an erosional base
132-137 cm: bioturbated gray to dark gray fine-grained ash
Section 7:
Foraminifers are scattered throughout this section.
5-7 cm: light colored patch
32 cm: dark volcanic clast (0.6 mm)
Section CC:
Common foraminifers throughout the section.

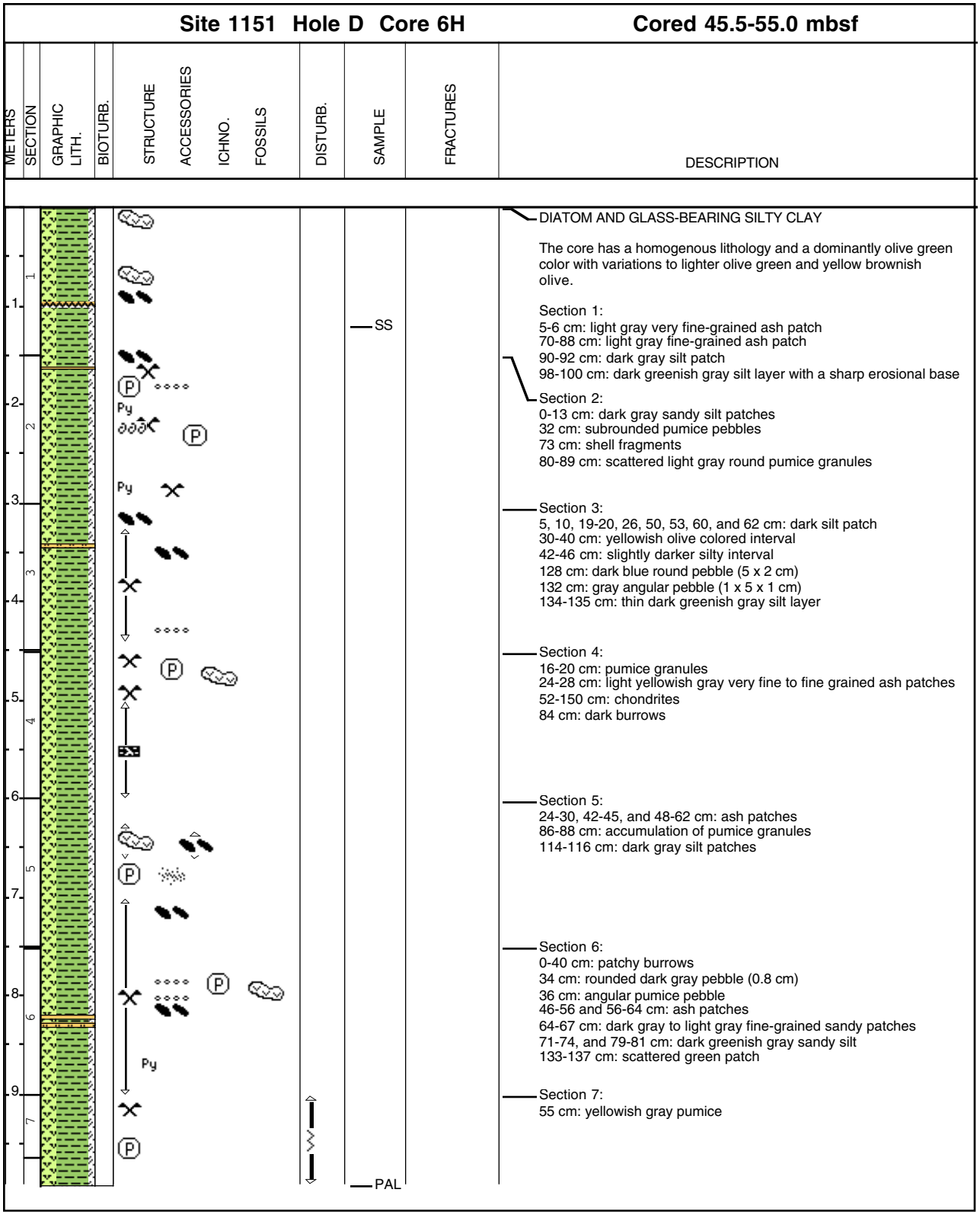
Core Photo


Site 1151 Hole D Core 4H
Cored 26.5-36.0 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
PAL
DIATOM-BEARING SILTY CLAY
The core has a homogenous lithology and an olive green color. Nannofossils and foraminifers comprise >10% of the lithology in some intervals.
29-31 cm: rounded dark gray to brownish gray pumice pebbles
37, 57 cm: rounded to subrounded light gray pumice granules
48 cm: rounded dark blue granule (drop stone)
82-84, 87-94 cm: dark greenish gray glauconite, glass, pyrite-bearing sandy silt layers
97 cm: subrounded dark gray pumice pebble
109-111, 119-123 cm: dark gray to light gray silty sand patches
114 cm: green glauconite patch
126-129, 127-140 cm: dark greenish sandy silt layer with a sharp base
Section 2:
4, 84, 90-97cm: green glauconite patch
6-8 cm: dark greenish gray silt patches
22 cm: dark green silt patch
24 cm: subrounded dark colored pumice granule
41-42 green patches
84-90 cm: layer of angular pumice grains
100-150 cm: scattered green glauconite patches
Section 3:
42-50 cm: scattered dark gray sandy silt
71 cm: green glauconite patch
90-93 cm: light gray to gray medium-grained ash layer with a sharp base and top boundary
101-105, 122-126 cm: dark gray silt patch
Section 4:
122 cm: green glauconite patch
Section 5:
14-15 cm: dark gray sandy silt patches
24-32 cm: yellowish gray fine-grained ash layer with dark minerals (biotite?), very sharp base and top boundaries.
32-47 cm: scattered brownish silt and sand
Section 6:
37-38 cm: dark green silty interval
78 cm: subrounded gray pebble (6 mm)
90-120 cm: scattered foraminifers
Section 7:
Foraminifers are scattered throughout the section.
2-3, 58-59 cm: dark gray fine-grained sand layers
65-68 cm: light colored fine- to medium sand-sized ash layer with common biotite
Section CC:
0-1 cm: light colored fine- to medium-grained ash layer with biotite
8-9 cm: light colored ash patches

Core Photo


Site 1151 Hole D Core 5H Cored 36.0-45.5
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
PAL
DIATOM AND GLASS-BEARING SILTY CLAY
The core has a homogenous lithology and an olive green color.
Foraminifers comprise >10% of the lithology in some intervals.
Section 1:
58 cm: rounded dark blue dropstone
81-85 cm: light gray very fine-grained ash patch
85-86 cm: brownish gray ash patch
129-139 cm: subrounded basaltic cobble, possibly an ice-rafted dropstone
Section 2:
8 cm: light gray fine-grained sand
0-20 cm: scattered small green patches
10 cm: disseminated pyrite
43 cm: green glauconite patch
121-125 cm: dark greenish gray sandy silt with a sharp base
136 cm: dark greenish gray sandy silt patch
Section 3:
0-5 cm: scattered small pyrite and green glauconite patches
80 and 88 cm: angular dark gray pumice granules
Section 4:
42-44 cm: dark gray subangular pumice pebbles
92-98 cm: light yellow gray very fine-grained ash patches
102-105 cm: gray angular pumice pebbles
Section 5:
13, 15-16, 121-122, and 133-145 cm: dark gray silt patches
32-35 cm: light yellowish gray very fine-grained diffuse ash patch with no clear boundaries
36 cm: small white ash
85-86 cm: drk gray silt with pyrite
96-97 cm: 0.8 cm dark blue rounded dropstone
100-140 cm: scattered green glauconite patches
125-126 cm: dark gray silt with dark gray pebbles
Section 6:
4-5 cm: rounded gray pebble (0.8 cm)
46 cm: subrounded gray pebble (0.5 cm)
149-150 cm: dark gray silty sand patches
Section 7:
0-4 cm: dark to light gray silt
9-20 cm: green glauconite patches
33 cm: yellowish gray angular pebble (0.5 cm)
36-37 cm: dark gray silt patch

Core Photo



DIATOM AND GLASS-BEARING SILTY CLAY

The core has a homogenous lithology and a dominantly olive green color with variations to lighter olive green and yellow brownish olive.

Section 1:
5-6 cm: light gray very fine-grained ash patch
70-88 cm: light gray fine-grained ash patch
90-92 cm: dark gray silt patch
98-100 cm: dark greenish gray silt layer with a sharp erosional base

Section 2:
0-13 cm: dark gray sandy silt patches
32 cm: subrounded pumice pebbles
73 cm: shell fragments
80-89 cm: scattered light gray round pumice granules

Section 3:
5, 10, 19-20, 26, 50, 53, 60, and 62 cm: dark silt patch
30-40 cm: yellowish olive colored interval
42-46 cm: slightly darker silty interval
128 cm: dark blue round pebble (5 x 2 cm)
132 cm: gray angular pebble (1 x 5 x 1 cm)
134-135 cm: thin dark greenish gray silt layer

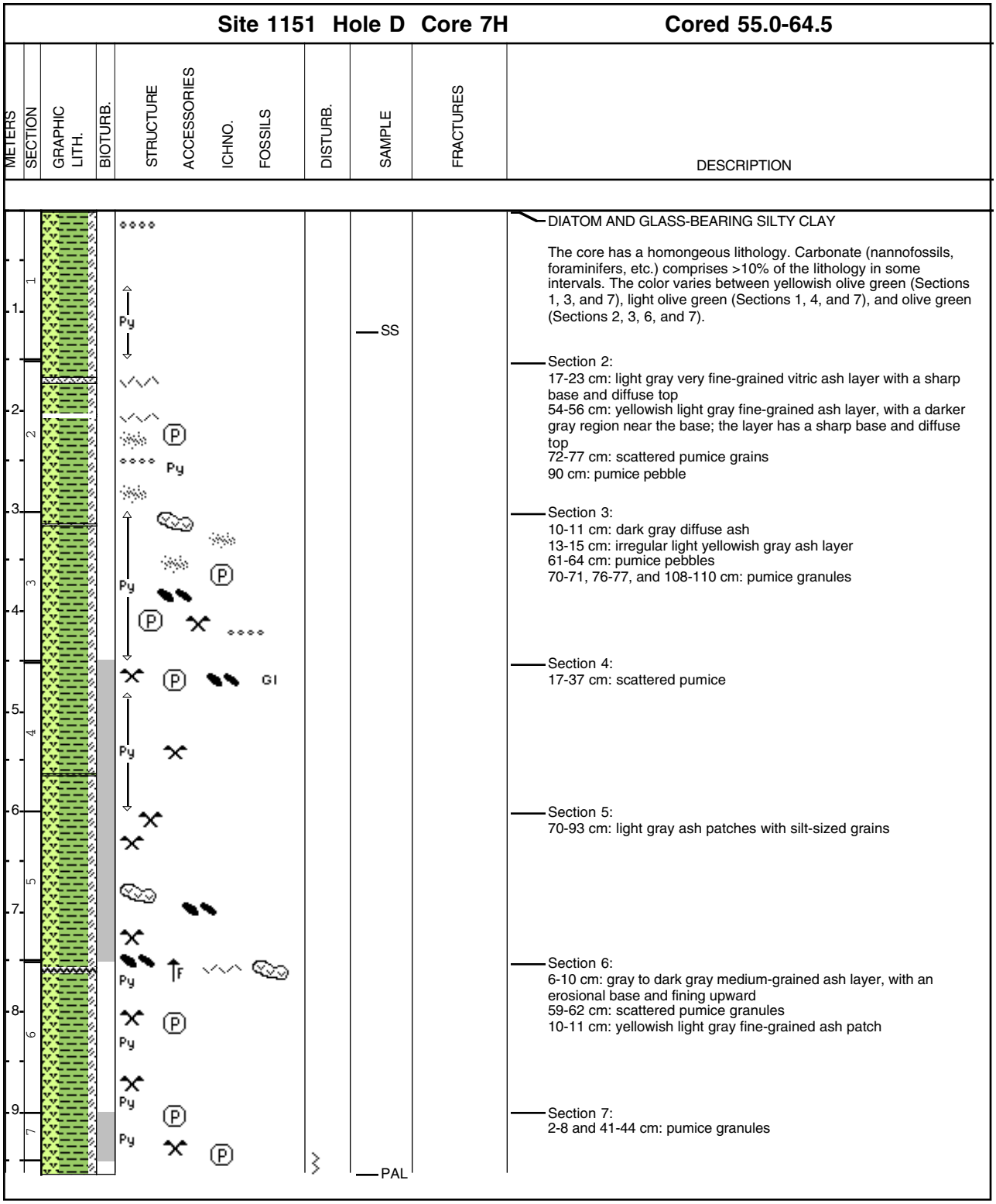
Section 4:
16-20 cm: pumice granules
24-28 cm: light yellowish gray very fine to fine grained ash patches
52-150 cm: chondrites
84 cm: dark burrows

Section 5:
24-30, 42-45, and 48-62 cm: ash patches
86-88 cm: accumulation of pumice granules
114-116 cm: dark gray silt patches

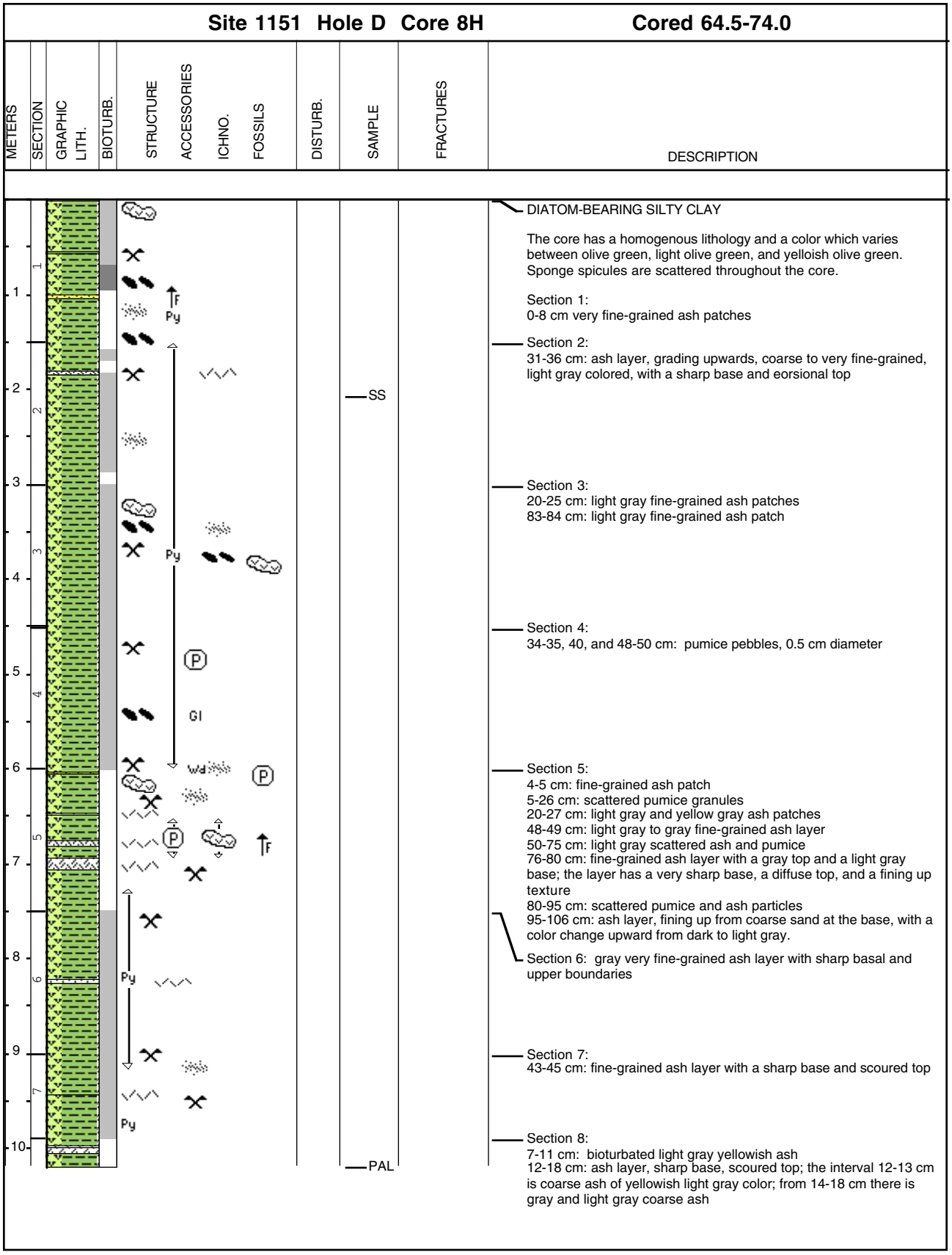
Section 6:
0-40 cm: patchy burrows
34 cm: rounded dark gray pebble (0.8 cm)
36 cm: angular pumice pebble
46-56 and 56-64 cm: ash patches
64-67 cm: dark gray to light gray fine-grained sandy patches
71-74, and 79-81 cm: dark greenish gray sandy silt
133-137 cm: scattered green patch

Section 7:
55 cm: yellowish gray pumice

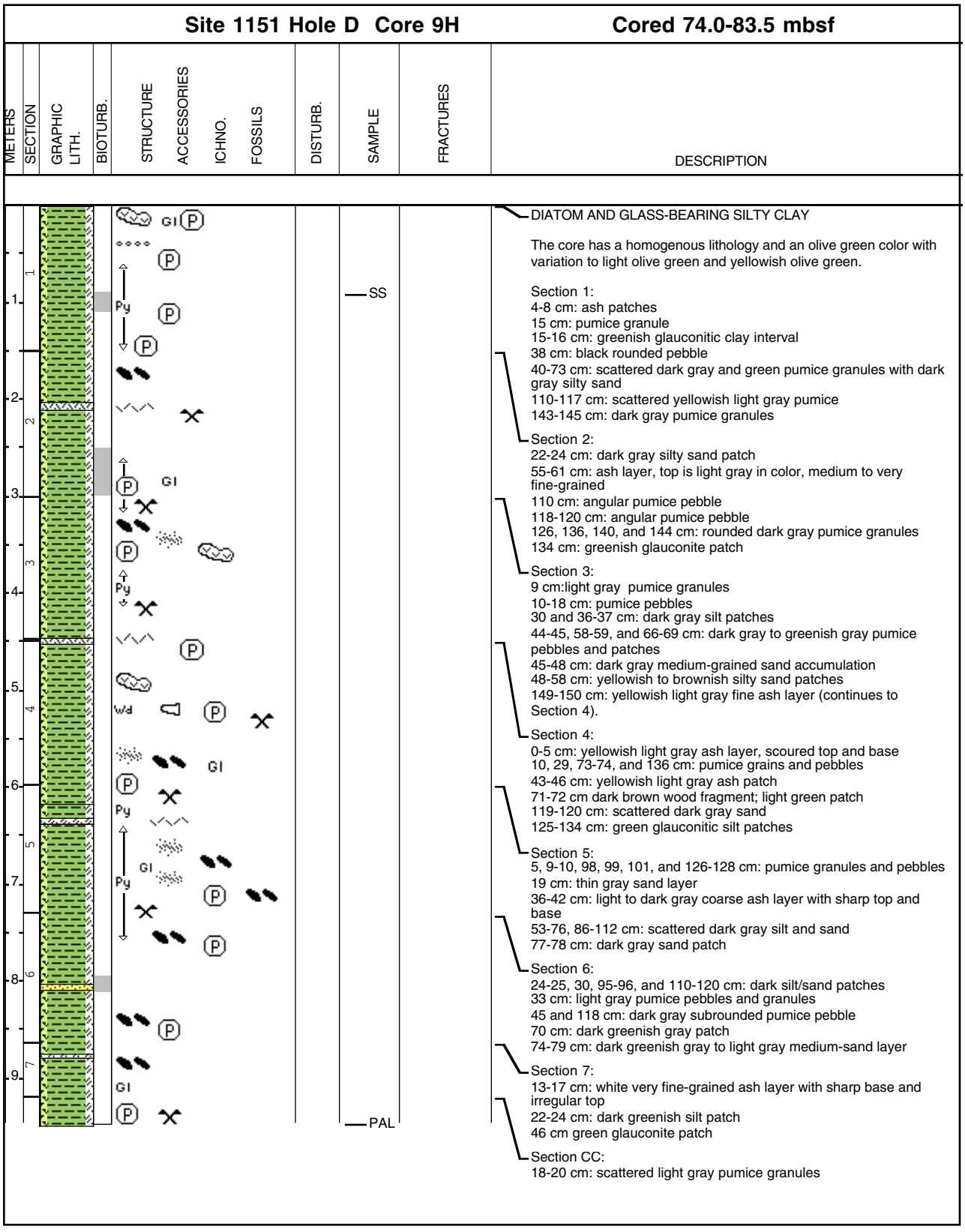
Core Photo


Site 1151 Hole D Core 7H Cored 55.0-64.5
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
PAL
Py
P
Gl
F
DIATOM AND GLASS-BEARING SILTY CLAY
The core has a homongeous lithology. Carbonate (nannofossils, foraminifers, etc.) comprises >10% of the lithology in some intervals. The color varies between yellowish olive green (Sections 1, 3, and 7), light olive green (Sections 1, 4, and 7), and olive green (Sections 2, 3, 6, and 7).
Section 2:
17-23 cm: light gray very fine-grained vitric ash layer with a sharp base and diffuse top
54-56 cm: yellowish light gray fine-grained ash layer, with a darker gray region near the base; the layer has a sharp base and diffuse top
72-77 cm: scattered pumice grains
90 cm: pumice pebble
Section 3:
10-11 cm: dark gray diffuse ash
13-15 cm: irregular light yellowish gray ash layer
61-64 cm: pumice pebbles
70-71, 76-77, and 108-110 cm: pumice granules
Section 4:
17-37 cm: scattered pumice
Section 5:
70-93 cm: light gray ash patches with silt-sized grains
Section 6:
6-10 cm: gray to dark gray medium-grained ash layer, with an erosional base and fining upward
59-62 cm: scattered pumice granules
10-11 cm: yellowish light gray fine-grained ash patch
Section 7:
2-8 and 41-44 cm: pumice granules

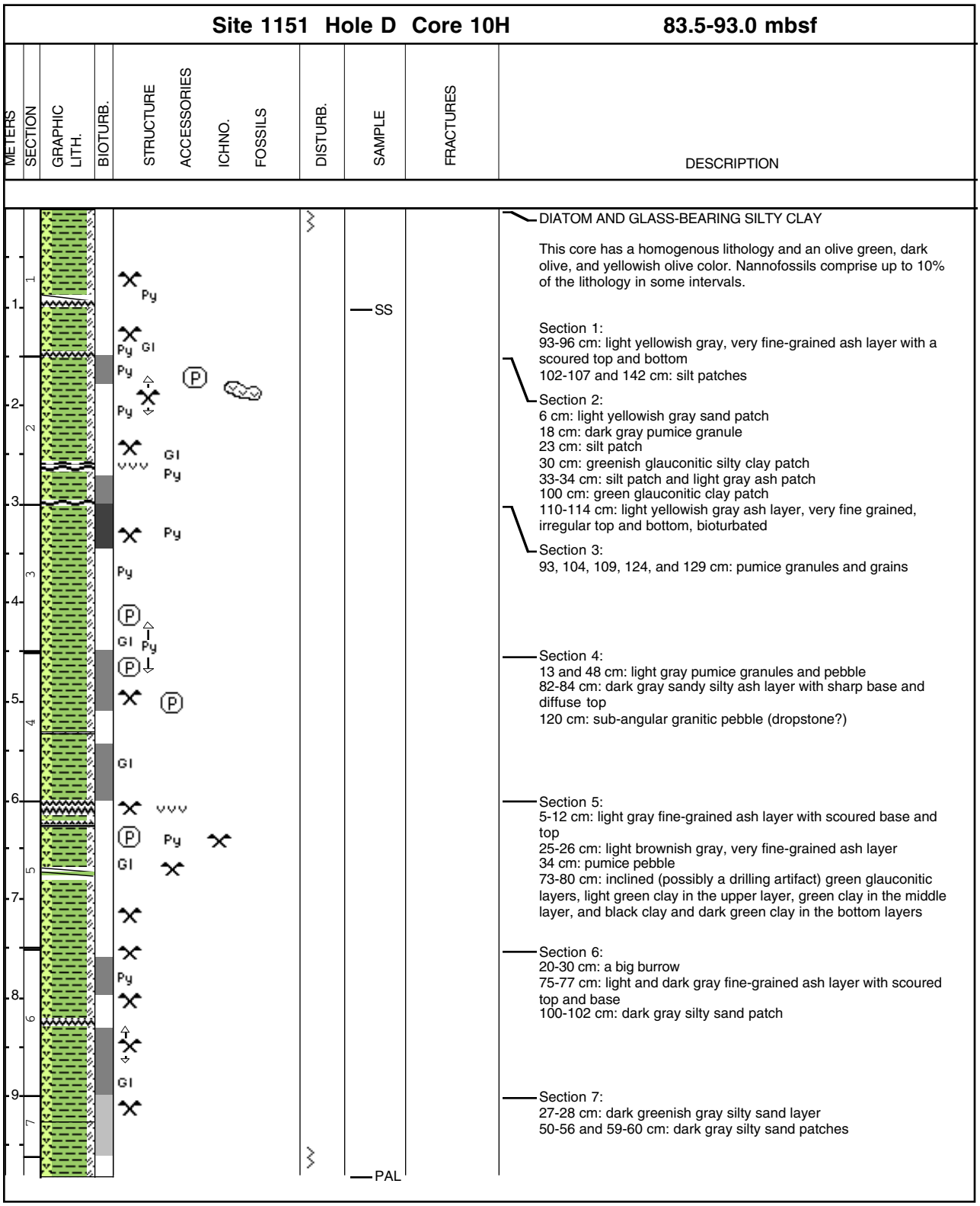
Core Photo


Site 1151 Hole D Core 8H Cored 64.5-74.0
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
Py
Gl
Wd
SS
PAL
DIATOM-BEARING SILTY CLAY
The core has a homogenous lithology and a color which varies between olive green, light olive green, and yelloish olive green. Sponge spicules are scattered throughout the core.
Section 1:
0-8 cm very fine-grained ash patches
Section 2:
31-36 cm: ash layer, grading upwards, coarse to very fine-grained, light gray colored, with a sharp base and eorsional top
Section 3:
20-25 cm: light gray fine-grained ash patches
83-84 cm: light gray fine-grained ash patch
Section 4:
34-35, 40, and 48-50 cm: pumice pebbles, 0.5 cm diameter
Section 5:
4-5 cm: fine-grained ash patch
5-26 cm: scattered pumice granules
20-27 cm: light gray and yellow gray ash patches
48-49 cm: light gray to gray fine-grained ash layer
50-75 cm: light gray scattered ash and pumice
76-80 cm: fine-grained ash layer with a gray top and a light gray base; the layer has a very sharp base, a diffuse top, and a fining up texture
80-95 cm: scattered pumice and ash particles
95-106 cm: ash layer, fining up from coarse sand at the base, with a color change upward from dark to light gray.
Section 6: gray very fine-grained ash layer with sharp basal and upper boundaries
Section 7:
43-45 cm: fine-grained ash layer with a sharp base and scoured top
Section 8:
7-11 cm: bioturbated light gray yellowish ash
12-18 cm: ash layer, sharp base, scoured top; the interval 12-13 cm is coarse ash of yellowish light gray color; from 14-18 cm there is gray and light gray coarse ash

Core Photo


Site 1151 Hole D Core 9H
Cored 74.0-83.5 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
PAL
DIATOM AND GLASS-BEARING SILTY CLAY
The core has a homogenous lithology and an olive green color with variation to light olive green and yellowish olive green.
Section 1:
4-8 cm: ash patches
15 cm: pumice granule
15-16 cm: greenish glauconitic clay interval
38 cm: black rounded pebble
40-73 cm: scattered dark gray and green pumice granules with dark gray silty sand
110-117 cm: scattered yellowish light gray pumice
143-145 cm: dark gray pumice granules
Section 2:
22-24 cm: dark gray silty sand patch
55-61 cm: ash layer, top is light gray in color, medium to very fine-grained
110 cm: angular pumice pebble
118-120 cm: angular pumice pebble
126, 136, 140, and 144 cm: rounded dark gray pumice granules
134 cm: greenish glauconite patch
Section 3:
9 cm:light gray pumice granules
10-18 cm: pumice pebbles
30 and 36-37 cm: dark gray silt patches
44-45, 58-59, and 66-69 cm: dark gray to greenish gray pumice pebbles and patches
45-48 cm: dark gray medium-grained sand accumulation
48-58 cm: yellowish to brownish silty sand patches
149-150 cm: yellowish light gray fine ash layer (continues to Section 4).
Section 4:
0-5 cm: yellowish light gray ash layer, scoured top and base
10, 29, 73-74, and 136 cm: pumice grains and pebbles
43-46 cm: yellowish light gray ash patch
71-72 cm dark brown wood fragment; light green patch
119-120 cm: scattered dark gray sand
125-134 cm: green glauconitic silt patches
Section 5:
5, 9-10, 98, 99, 101, and 126-128 cm: pumice granules and pebbles
19 cm: thin gray sand layer
36-42 cm: light to dark gray coarse ash layer with sharp top and base
53-76, 86-112 cm: scattered dark gray silt and sand
77-78 cm: dark gray sand patch
Section 6:
24-25, 30, 95-96, and 110-120 cm: dark silt/sand patches
33 cm: light gray pumice pebbles and granules
45 and 118 cm: dark gray subrounded pumice pebble
70 cm: dark greenish gray patch
74-79 cm: dark greenish gray to light gray medium-sand layer
Section 7:
13-17 cm: white very fine-grained ash layer with sharp base and irregular top
22-24 cm: dark greenish silt patch
46 cm green glauconite patch
Section CC:
18-20 cm: scattered light gray pumice granules

Core Photo


Site 1151 Hole D Core 10H 83.5-93.0 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
PAL
DIATOM AND GLASS-BEARING SILTY CLAY
This core has a homogenous lithology and an olive green, dark olive, and yellowish olive color. Nannofossils comprise up to 10% of the lithology in some intervals.
Section 1:
93-96 cm: light yellowish gray, very fine-grained ash layer with a scoured top and bottom
102-107 and 142 cm: silt patches
Section 2:
6 cm: light yellowish gray sand patch
18 cm: dark gray pumice granule
23 cm: silt patch
30 cm: greenish glauconitic silty clay patch
33-34 cm: silt patch and light gray ash patch
100 cm: green glauconitic clay patch
110-114 cm: light yellowish gray ash layer, very fine grained, irregular top and bottom, bioturbated
Section 3:
93, 104, 109, 124, and 129 cm: pumice granules and grains
Section 4:
13 and 48 cm: light gray pumice granules and pebble
82-84 cm: dark gray sandy silty ash layer with sharp base and diffuse top
120 cm: sub-angular granitic pebble (dropstone?)
Section 5:
5-12 cm: light gray fine-grained ash layer with scoured base and top
25-26 cm: light brownish gray, very fine-grained ash layer
34 cm: pumice pebble
73-80 cm: inclined (possibly a drilling artifact) green glauconitic layers, light green clay in the upper layer, green clay in the middle layer, and black clay and dark green clay in the bottom layers
Section 6:
20-30 cm: a big burrow
75-77 cm: light and dark gray fine-grained ash layer with scoured top and base
100-102 cm: dark gray silty sand patch
Section 7:
27-28 cm: dark greenish gray silty sand layer
50-56 and 59-60 cm: dark gray silty sand patches

Sample						Texture			Components				Mineral														Biogenic						Rock		
Core	Type	Section	Top interval (cm)	Depth (mbsf)	Lithology (D=dominant, M=Minor)	Sand (%)	Silt (%)	Clay (%)	Biogenic (%)	Siliciclastic (%)	Volcaniclastic (%)	Others (%)	Clay (%)	Quartz (%)	Feldspar (%)	Hornblende (%)	Pyroxene (%)	Mica (%)	Glauconite (%)	Volcanic Glass (%)	Palagonite (%)	Pyrite (%)	Hematite (%)	Calcite (%)	Dolomite (%)	Opaques (%)	Diatoms (%)	Siliceous Sponge Spicules (%)	Radiolarians (%)	Silicoflagellates (%)	Foraminifers (%)	Nannofossils (%)	Carbonate Grains (%)	Rock Fragment (%)	Sediment Name
186-1151A-																																		
2	R	1	97	78.97	D	5	15	80	55	31	5		20	3	5	1		1	1	5		2	1			1	15	7	2	1	10	20	5		Diatom-foram-clay-nanno-bearing contaminated
2	R	2	97	80.47	D	12	40	48	24	55	10	6	22	15	10	5		1	2	10		5	1				10	3		*	8	3	5		Diatom-bearing clayey silt with foraminifer
3	R	2	97	86.17	D	5	25	70	35	46	10	4	35	5	3	2			1	10		3	1				20	7	2	1	5		5		Glass-diatom-bearing silty clay
3	R	4	96	89.16	D	3	35	62	42	47	7	4	38	5	2	1			1	7		3	1				10	5			7	20			Diatom-nannofossil-bearing silty clay
4	R	1	97	94.27	D	5	40	55	25	60	10	3	34	15	7	3			1	10		3	*				20	5	*	*	*	*	2		Glass-diatom-bearing silty clay
5	R	1	97	103.87	D	5	30	65	23	56	10	4	41	5	7	2			1	10		3	1				15	5		*	3		7		Diatomaceous silty clay
6	R	1	97	113.57	D	10	35	55	21	60	15	4	53	3		*		1	3	15	*	4					10	7			*	4			Glass + diatom bearing silty clay
6	R	2	97	115.07	D	12	37	51	24	53	20	3	48	2	1		1	*	1	20		3	*				15	8				1			Glass + diatom-bearing silty clay
7	R	2	100	124.7	D	5	37	58	23	59	12	5	56	2	*			*	1	12		5		1			10	8			*	5			Glass + diatom-bearing silty clay
8	R	1	97	132.77	D	7	43	50	29	49	20	2	47	1		*	*	1	*	20		2		*			20	9			*	*			Glass + diatom-bearing silty clay
9	R	2	97	143.87	D	3	42	55	27	56	15	1	51	1			2	1	1	15		1		1			15	5				7			Glass + diatom-bearing silty clay
10	R	3	97	154.97	D	5	40	55	29	56	13	2	52	1	1	*	*	1	1	13		2					16	12				1			Glass-diatom-spicule-bearing silty clay
11	R	3	97	164.57	D	6	34	60	26	55	15	3	54			*		*	1	15		3		1			13	10				3			Glass-diatom-spicule-bearing silty clay
12	R	6	98	178.68	D	3	52	45	30	48	20	2	42	2				1	3	20		2					18	8				4			Glass + diatom-bearing clayey silt
13	R	4	98	185.28	D	3	52	45	38	45	15	2	41	1				1	2	15		2					20	12				6			Diatom-spicule-glass-bearing clayey silt
14	R	3	97	193.47	D	7	35	58	35	52	7	6	34	7	5	2	2		2	7		5	1				25	7	*	*	2	1			Diatomaceous silty clay
15	R	1	97	200.17	D	5	30	65	32	54	8	4	38	7	5	2	1	*	1	7	1	3	1				20	5			2	5	2		Diatom-bearing silty clay
16	R	1	90	209.8	D	5	45	50	36	48	5	6	38	5	3	1			1	5		3	2				15	10	3	1		7	5	1	Diatom-spicule-nannofossil-bearing silty clay
16	R	2	50	210.9	D	10	40	50	37	28	6	4	19	5	3				1	5	1	3	1				20	10			2	5	25		Diatom-spicule-bearing calcareous clayey silt
17	R	1	97	219.47	D	5	35	60	31	51	11	7	37	7	5	2				10	1	5	2				15	10			3	3			Diatom-spicule-glass-bearing silty clay
18	R	1	90	229	D	10	35	55	41	48	7	4	34	7	5	1			1	7		3	1				25	10	1		2	3			Spicule-bearing diatomaceous silty clay
19	R	1	90	238.6	D	5	35	60	39	46	8	4	37	5	3				1	7	1	3	1				20	10	2	*	2	5	3		Diatom-spicule-bearing silty clay
20	R	1	90	248.2	D	7	40	53	36	56	6	2	37	10	7	1			1	5	1	1	1				25	10			1				Spicule-bearing diatomaceous silty clay
21	R	1	90	257.8	D	7	35	58	31	34	6	4	15	10	7	1			1	5	1	3	1				15	10		1	2	3	25		Diatom-spicule-bearing calcareous clayey silty clay

Sample						Texture			Components				Mineral															Biogenic						Rock		
Core	Type	Section	Top interval (cm)	Depth (mbsf)	Lithology (D=dominant, M=Minor)	Sand (%)	Silt (%)	Clay (%)	Biogenic (%)	Siliciclastic (%)	Volcaniclastic (%)	Others (%)	Clay (%)	Quartz (%)	Feldspar (%)	Hornblende (%)	Pyroxene (%)	Mica (%)	Glauconite (%)	Volcanic Glass (%)	Palagonite (%)	Pyrite (%)	Hematite (%)	Calcite (%)	Dolomite (%)	Opaques (%)	Diatoms (%)	Siliceous Sponge Spicules (%)	Radiolarians (%)	Silicoflagellates (%)	Foraminifers (%)	Nannofossils (%)	Carbonate Grains (%)	Rock Fragment (%)	Sediment Name
22	R	1	90	267.5	D	5	40	55	41	44	6	4	35	5	3				1	5	1	3	1				30	7		*	1	3	5		Spicule-bearing diatomaceous silty clay
23	R	3	97	280.17	D	10	40	50	38	51	10	1	49	1		*		1	*	10	*	1	*				25	13				*			Spicule + glass-bearing diatomaceous silty clay
24	R	4	97	291.37	D	3	37	60	35	52	10	3	47	2		1		1	1	10		3		*			25	10				*			Spicule + glass-bearing diatomaceous silty clay
25	R	1	97	296.57	D	8	50	42	47	39	9	3	37	2		*		*	*	9	*	3	*	2			35	12							Spicule-bearing diatomaceous clayey silt
26	R	3	97	309.27	D	7	38	55	37	49	12	2	45	1	1	1		1	*	12		2	*	*			25	11				1			Glass + spicule-bearing diatomaceous silty clay
27	R	3	97	318.87	D	7	48	45	36	49	13	2	40	3		1		2	3	13		2	*				25	9			1	1			Glass-bearing diatomaceous clayey silt
28	R	3	97	328.57	D	4	51	45	44	44	9	3	40	2	1			*	1	9		3	*	*			20	20				4			Diatom and spicule-bearing clayey silt
29	R	4	97	339.67	D	5	40	55	43	44	6	4	26	10	7				1	5	1	3	1				25	10		1	2	5	3		Spicule-bearing diatomaceous silty clay
30	R	3	115	348.05	D	7	30	63	39	51	6	4	38	5	3	1		1	3	5	1	3	1				25	10			2	2			Spicule-bearing diatomaceous silty clay
31	R	2	133	356.43	D	10	40	50	46	37	8	6	25	5	3	2			2	7	1	5	1				25	10		2	2	7	3		Spicule-bearing diatomaceous silty clay
32	R	1	128	364.48	D	7	40	53	44	38	8	7	19	10	7			1	1	7	1	5	2				25	10			2	7	3		Spicule-bearing diatomaceous silty clay
33	R	1	128	374.18	D	7	40	53	44	38	8	7	19	10	7			1	1	7	1	5	2				25	10		*	2	7	3		Spicule-bearing diatomaceous silty clay
33	R	2	33	374.73	D	10	40	50	34	42	12	7	19	10	7	2		1	3	10	2	5	2				20	7	1		1	5	5		Glass-diatom-bearing silty clay
34	R	2	61	384.61	D	5	35	60	41	37	6	6	23	7	5	1		1		5	1	5	1				20	10	1	1	2	7	10		Spicule-carb.grain-diatom-bearing silty clay
35	R	2	28	393.88	D	10	40	50	35	39	14	7	22	7	5	1		2	2	10	4	5	2				15	7		1	2	10	5		Diatom-nannofossil-glass-bearing silty clay
36	R	1	28	401.68	D	10	35	55	40	31	18	6	16	7	5				3	15	3	5	1				25	8	1		3	3	5		Glass-spicule-bearing diatomaceous silty clay
37	R	1	106	412.06	D	15	30	55	36	43	7	6	33	1	5	2		1	1	5	2	5	1				20	10	5			1	7		Spicule + diatom-bearing silty clay
38	R	2	97	423.07	D	3	37	60	30	58	10	2	56	2				*	*	9	1	2					20	8				2			Diatom-bearing silty clay
39	R	2	90	432.7	D	6	49	45	40	50	8	1	45			1		*	4	8		1	*				20	15				5	1		Diatom + spicule-bearing clayey silt
40	R	3	90	443.8	D	5	40	55	31	57	11	1	52	1	1	*		1	2	10	1	1	*				15	15	1				*		Diatom-spicule-glass-bearing silty clay
41	R	3	97	453.47	D	3	47	50	35	51	10	3	45	1				*	5	10		3					20	10				5			Diatom-spicule-glass bearing silty clay
42	R	3	97	463.17	D	4	46	50	34	50	10	3	46	*		*		*	4	9	1	3					12	17				5	3		Diatom-spicule-bearing silty clay
43	R	3	97	472.77	D	3	42	55	32	57	7	4	51	2			*	*	4	7		4	*				8	12				12			Spicule-nannofossil-bearing silty clay
44	R	4	98	483.88	D	3	43	54	28	59	10	1	51	1	3			*	4	10	*	1	*				18	10			*		2		Diatom-spicule-glass-bearing silty clay

Sample						Texture			Components				Mineral														Biogenic						Rock		
Core	Type	Section	Top interval (cm)	Depth (mbsf)	Lithology (D=dominant, M=Minor)	Sand (%)	Silt (%)	Clay (%)	Biogenic (%)	Siliciclastic (%)	Volcaniclastic (%)	Others (%)	Clay (%)	Quartz (%)	Feldspar (%)	Hornblende (%)	Pyroxene (%)	Mica (%)	Glauconite (%)	Volcanic Glass (%)	Palagonite (%)	Pyrite (%)	Hematite (%)	Calcite (%)	Dolomite (%)	Opaques (%)	Diatoms (%)	Siliceous Sponge Spicules (%)	Radiolarians (%)	Silicoflagellates (%)	Foraminifers (%)	Nannofossils (%)	Carbonate Grains (%)	Rock Fragment (%)	Sediment Name
45	R	2	120	490.7	D	3	42	55	30	54	10	4	50	1	1				2	10	*	4	*				12	18			*		2		Diatom-spicule-glass-bearing silty clay
46	R	1	54	498.14	D	3	45	52	30	48	9	6	23	7	15	2		1		7	2	5	1				20	10					7		Spicule-diatom-bearing clayey silt
47	R	1	140	508.6	D	3	35	62	26	49	7	8	30	7	7	1		1	3	5	2	7	1				15	10		1			10		Carbonate grains-diatom-spicule-bearing silty clay
48	R	3	32	520.12	D	15	30	55	29	48	7	9	30	7	7			1	3	5	2	7	2				10	15	1	1	2		7		Diatom-spicule-bearing silty clay
49	R	4	122	532.12	D	15	35	50	37	47	7	4	25	10	7			1	4	5	2	3	1				20	10	1	1		5	5		Spicule-diatom-bearing silty clay
50	R	1	20	536.2	D	15	35	50	34	46	8	7	22	10	7			2	5	5	3	5	2				20	10			1	3	5		Spicule-diatom-bearing silty clay
51	R	1	43	546.13	D	15	30	55	40	35	12	6	19	7	5	1			3	10	2	5	1				25	10			2	3	7		Spicule-bearing diatomaceous silty clay
52	R	1	76	556.16	D	5	40	55	20	54	13	8	36	7	5	1		1	4	10	3	5	3				10	7	3				5		Diatom-glass-bearing silty clay
53	R	2	103	567.63	D	2	41	57	33	57	9	1	54	1	*			*	2	9		1	*				15	18							Diatom-spicule-bearing silty clay
54	R	2	97	577.17	D	2	40	58	34	54	10	2	50	1	1				2	10		2					17	15				2			Glass-diatom-spicue-bearing silty clay
56	R	2	70	595.43	D	3	37	60	33	56	10	1	54	1	1	*		*	*	10		1					8	15				10			Glass-spicule-bearing silty clay
57	R	2	98	605.98	D	2	43	55	32	59	8	1	51	3	2			*	3	8		1					8	12				12	*		Nannofossil-spicule-bearing silty clay
58	R	3	98	617.18	D	4	40	56	25	59	15	1	52	1	2	*		*	4	15		1					14	8				3	*		Diatom-glass-bearing silty clay
58	R	6	98	621.68	D	4	41	55	31	55	12	2	49	1	1			*	4	12		2					15	13				3	*		Glass-diatom-spicule-bearing silty clay
59	R	4	95	628.35	D	7	30	63	31	54	8	4	42	5	5			1	1	7	1	3	1				15	10			1	5	3		Spicule-diatom-bearing silty clay
60	R	1	120	633.7	D	5	30	65	30	48	8	5	33	5	3			4	3	7	1	5			2		15	10				5	7		Spicule-diatom-bearing silty clay
61	R	1	63	642.73	D	10	35	55	27	52	10	4	33	10	5	1		1	2	10		3	1				10	15				2	7		Diatom-spicule-glass-bearing silty clay
62	R	1	32	651.92	D	5	50	45	21	54	10	11	26	15	10			2	1	10		10	1		1		10	10	1				3		Diatom-spicule-glass-pyrite-bearing clayey silt
63	R	1	82	662.02	D	5	45	50	32	41	7	5	19	7	10	1		2	2	5	2	3	2				15	15	1	1			15		Diatom-spicule-carbonate-bearing clayey silt
65	R	5	70	686.9	D	5	45	50	26	56	9	4	34	7	10			2	3	7	2	3	1		2		15	10			1		3		Diatom-spicule-bearing silty clay
66	R	1	70	690.5	D	5	50	45	31	46	12	6	12	10	15			2	7	10	2	5	1				15	10			1	5	5		Diatom-spicule-glass-bearing clayey silt
67	R	3	56	702.76	D	7	40	53	27	48	12	3	22	10	12	1		1	2	10	2	2	1				10	10				7	10		Diatom-spicule-glass-carb-bearing clayey silt
68	R	1	110	710.1	D	5	30	65	28	55	6	2	39	5	7	1		1	2	5	1	1	1		2		10	7			1	10	7		Diatom-nannofossil-bearing silty clay

Sample						Texture			Components				Mineral														Biogenic						Rock		
Core	Type	Section	Top interval (cm)	Depth (mbsf)	Lithology (D=dominant, M=Minor)	Sand (%)	Silt (%)	Clay (%)	Biogenic (%)	Siliciclastic (%)	Volcaniclastic (%)	Others (%)	Clay (%)	Quartz (%)	Feldspar (%)	Hornblende (%)	Pyroxene (%)	Mica (%)	Glauconite (%)	Volcanic Glass (%)	Palagonite (%)	Pyrite (%)	Hematite (%)	Calcite (%)	Dolomite (%)	Opaques (%)	Diatoms (%)	Siliceous Sponge Spicules (%)	Radiolarians (%)	Silicoflagellates (%)	Foraminifers (%)	Nannofossils (%)	Carbonate Grains (%)	Rock Fragment (%)	Sediment Name
69	R	3	98	722.28	D	4	39	57	25	57	15	2	50	2	2	*		*	3	15		2	*				11	12				2	1		Diatom-glass-spicule-bearing silty clay
69	R	4	104	723.84	D	5	52	43	31	45	20	4	37	2	2			*	4	20	*	3	1				15	14				2	*		Diatom-glass-spicule-bearing silty clay
70	R	2	130	731.1	D	2	38	60	17	57	25	1	54	1	*			*	2	25	*	1	*				6	10			*	1			Spicule-bearing glassy silty clay
71	R	6	88	746.38	D	3	49	48	32	51	14	3	44	2	1	*	*	1	3	14	*	3	*				16	11				5			Diatom-glass-spicule-bearing silty clay
72	R	4	98	752.66	D	4	40	56	25	57	15	2	53	1	1	*	*	*	2	15	*	2	*				12	10				3	1		Diatom-glass-spicule-bearing silty clay
73	R	4	98	762.78	D	2	40	58	26	64	8	2	50	3	5	*	*	*	6	8	*	2	*				9	13				4	*		Spicule-bearing silty clay
74	R	1	122	768.12	D	15	40	45	30	50	11	2	18	15	10	1		1	5	10	1	1	1				15	10				5	7		Diatom-glass-spicule-bearing clayey silt
75	R	1	75	777.25	D	5	40	55	25	60	8	4	36	7	10	1		1	5	7	1	3	1				12	10				3	3		Diatom-spicule-bearing silty clay
76	R	2	114	788.74	D	5	50	45	34	45	9	6	21	7	12	1		1	3	7	2	5	1		1		20	10	1			3	5		Diatom-spicule-bearing clayey silt
77	R	2	50	797.7	D	10	40	50	23	55	7	10	36	5	7	1		1	5	7	*	3	7				10	7	1	1	1	3	5		Diatom-bearing silty clay
78	R	1	70	806.1	D	15	40	45	25	48	10	10	16	10	15	1		1	5	10		3	7				10	10				5	7		Diatom-spicule-glass-bearing clayey silt
78	R	4	40	810.3	D	20	50	30	19	52	7	10	16	10	15			1	10	7			10				12	7					12		Diatom-glass-limonite-carb-bearing clayey silt
80	R	4	98	830.08	D	2	43	55	19	54	25	2	49	2	2	*		*	1	25		2					9	10			*		*		Spicule-bearing glassy silty clay
81	R	2	80	836.5	D	2	38	60	21	57	20	2	53	1	1			*	2	20		2					10	11							Glass-diatom-spicule-bearing silty clay
82	R	1	98	844.78	D	2	40	58	27	58	12	2	51	2	3			*	2	12		2	*				12	15					1		Diatom-glass-spicule-bearing silty clay
84	R	3	98	867.08	D	3	42	55	28	51	18	3	46	2	2			*	1	18		3					10	18					*		Glass-diatom-spicule-bearing silty clay
85	R	3	98	876.78	D	2	40	58	25	52	20	3	46	1	2	*		*	3	20		3	*				10	15							Diatom-glass-spicule-bearing silty clay
86	R	2	110	884.9	D	2	60	38	23	58	16	3	53	1	2				2	16		3					9	13				1			Spicule glass-bearing silty clay
87	R	2	98	894.38	D	4	46	50	23	49	25	1	42	2	3			*	2	25	*	1	*		2		5	17				1			Spicule-bearing glassy silty clay
88	R	1	84	902.44	D	5	30	65	25	55	7	10	37	5	7			1	5	7		3	7				10	15					3		Diatom-spicule-bearing silty clay
89	R	1	112	912.32	D	5	40	55	23	57	5	8	25	10	15				7	5		3	5				15	7		1			7		Diatom-bearing clayey silt
90	R	1	28	921.08	D	7	40	53	20	62	8	7	36	7	10	2		2	5	7	1	2	5				10	10					3		Diatom-spicule-bearing silty clay
91	R	1	88	931.28	D	15	45	40	22	51	11	9	25	7	12	1		1	5	10	1	3	6				10	10			2		7		Diatom-spicule-glass-bearing clayey silt
92	R	1	110	941.2	D	5	35	60	23	53	12	9	29	12	7				5	10	2	3	6				10	12			1		3		Diatom-spicule-glass-bearing silty clay
96	R	2	98	980.91	D	3	37	60	15	57	26	1	50	3	1	*		*	3	26		1	*				5	8				2	1		Glassy silty clay
97	R	3	98	992.18	D	4	43	53	15	57	26	2	49	2	3	*		*	3	26		1	1				7	7				1			Glassy silty clay

Sample						Texture			Components				Mineral															Biogenic						Rock		
Core	Type	Section	Top interval (cm)	Depth (mbsf)	Lithology (D=dominant, M=Minor)	Sand (%)	Silt (%)	Clay (%)	Biogenic (%)	Siliciclastic (%)	Volcaniclastic (%)	Others (%)	Clay (%)	Quartz (%)	Feldspar (%)	Hornblende (%)	Pyroxene (%)	Mica (%)	Glauconite (%)	Volcanic Glass (%)	Palagonite (%)	Pyrite (%)	Hematite (%)	Calcite (%)	Dolomite (%)	Opaques (%)	Diatoms (%)	Siliceous Sponge Spicules (%)	Radiolarians (%)	Silicoflagellates (%)	Foraminifers (%)	Nannofossils (%)	Carbonate Grains (%)	Rock Fragment (%)	Sediment Name
98	R	3	98	1001.78	D	1	39	60	18	61	16	4	50	2	5			*	4	16		4					6	10				2	1		Glass-and spicule-bearing silty clay
99	R	1	98	1008.38	D	0	24	76	15	59	22	2	52	*					7	22		2	*				4	7			*	4	2		Glass-bearing clay
100	R	2	98	1019.48	D	3	42	55	14	58	25	3	50	2	3				3	25		3	*				5	8				1			Glassy silty clay
101	R	1	98	1027.58	D	1	24	75	24	50	20	0	47	1	1				1	20		*	*				5	9			*	10	6		Nannofossil- and glass-bearing
102	R	1	105	1037.25	D	5	35	60	25	61	6	6	47	7	5				2	5	1	2	4				10	15					2		Diatom-spicule-bearing silty clay
104	R	1	90	1056.5	D	10	30	60	21	58	11	9	35	5	7	1			10	10	1	2	7				15	5				1	1		Diatom-glass-spicule-bearing silty clay
105	R	2	140	1068.2	D	5	30	65	23	53	20	4	29	7	5	1		1	10	20		1	3				10	12	1						Diatom-glass-spicule-glauconite-bearing silty clay
106	R	1	94	1075.94	D	4	41	55	12	57	30	0	52	2	3	*		*		30		*	*				7	5					1		Glassy silty clay
107	R	4	98	1089.67	D	2	38	60	15	58	22	5	51	2	4	*		*	1	22		4	1				5	10							Glass + spicule-bearing silty clay
108	R	2	86	1096.66	D	4	36	60	13	64	20	3	58	2	2			*	2	20		2	1				5	8							Glass-bearing silty clay
108	R	4	98	1099.61	D	7	43	50	11	52	31	4	45	3	3	*		*	1	31		3				1	4	7					2		Glassy silty clay
109	R	1	40	1104.3	D	2	38	60	15	63	18	4	57	2	2	1		*	1	18		4	*				5	10					*		Spicule + glass-bearing silty clay

Sample						Texture			Mineral												Biogenic						Rock	
Core	Type	Section	Top interval (cm)	Depth (mbsf)	Lithology (D=dominant, M=Minor)	Sand (%)	Silt (%)	Clay (%)	Clay (%)	Quartz (%)	Feldspar (%)	Hornblende (%)	Mica (%)	Glauconite (%)	Volcanic Glass (%)	Palagonite (%)	Pyrite (%)	Hematite (%)	Organic Calcite (%)	Opaques (%)	Diatoms (%)	Siliceous Sponge Spicules (%)	Radiolarians (%)	Silicoflagellates (%)	Foraminifers (%)	Nannofossils (%)	Carbonate Grains (%)	Sediment Name
186-1151C-																												
1	H	1	98	0.98	D	10	48	42	40	3	4	1	1	2	5			1		2	25	8				2	6	Sand-bearing diatomaceous silty clay
2	H	2	98	4.68	D	10	45	45	41	5	5	1	1	1	12		1	1			18	8		5	1			Diatom-glass-sand-bearing clayey silt
3	H	4	98	17.18	D	3	25	72	39	1	1		*	1	6		2	1			15	7		*	*	26	1	Diatom-bearing nannofossileous silty clay
4	H	4	98	26.71	D	6	45	49	45	3	1		*	2	8		2	1			20	9	*	*	*	4	5	Diatom-bearing silty clay
5	H	3	98	34.68	D	4	47	49	47	1			*		5		2	1			25	11					8	Spicule-bearing diatomaceous silty clay
6	H	4	98	45.68	D	5	46	49	46	1	2	*	1	1	10		2	1		1	18	13		*	*	1	3	Diatom-glass-spicule-bearing silty clay
7	H	4	98	55.18	D	3	50	47	39	2	2	*	1	*	10		3	*		1	19	13		*	*		10	Diatom-spicule-carbonate-bearing clayey silt
8	H	4	98	64.68	D	3	47	50	45	2	1	*	*	1	12		1	1			18	15		1	*		3	Diatom-spicule-glass-bearing clayey silt
9	H	4	98	74.18	D	3	45	52	41	3	2	1	*	*	10		2	1			25	10				2	3	Spicule-glass-bearing diatomaceous silty clay
10	H	1	92	79.12	D	10	40	50	38	6	11	4	2	1	10		3				15	5	1			1	3	Diatom-glass-bearing silty clay
11	H	2	42	89.62	D	10	50	40	19	5	7	3			7		3				25	7	1	*	10	10	3	Nanno-foram-bearing diatomaceous clayey silt
186-1151D-																												
1	H	1	90	0.90	D	10	40	50	25	5	5			2	10		3	1			25	5			12	7		Foraminifer-glass-sand-bearing silty clay
1	H	2	118	2.68	M	75	15	10	10	10	30	20		15	15													Glass-clay-hornbl-fsp-qtz-bear. silty sand
2	H	1	90	8.40	D	10	40	50	22	6	5	1	1	2	10		3	2			30	10	2	1	2	2	1	Glass-spicule-bearing diatomaceous silty clay
3	H	1	90	17.90	D	10	40	50	26	1	5		1	10	10		5	1			20			1	5	10	5	Nannofossil-glass-diatom-bearing silty clay
4	H	4	103	32.03	D	15	30	55	32	5	3	1	2	5	5		3	3			10	5		1	10	15		Diatom-foram-nanno-sand-bearing silty clay
5	H	1	90	36.90	D	10	20	70	43	3	1	1	1	2	10		2	3			10		1		10	3	10	Diatom-foram-calc-glass-bearing clay
6	H	1	120	46.70	D	10	50	40	28	5	12	1	1	2	10		2	3			15	7	1	1	5		7	Diatom-sand-glass-bearing clayey silt
7	H	1	120	56.20	D	5	30	65	25	5	5	1	1	1	15		2	2			10	5	1	1	8	10	8	Diatom-nanno-foram-calc-bearing silty clay
8	H	2	56	66.56	D	5	30	65	37	3	5		1	5	7		2	3			15	5		1	3	3	10	Glass-sand-bearing diatomaceous silty clay
9	H	1	90	74.90	D	7	40	53	36	7	10	1		5	15		2	3			10	5		1			5	Diatom-glass-bearing silty clay
10	H	1	90	84.40	D	15	45	40	24	7	12	2		2	15	2	2	1	7		10	5			1	10		Diatom-nanno-glass-bearing silty clay