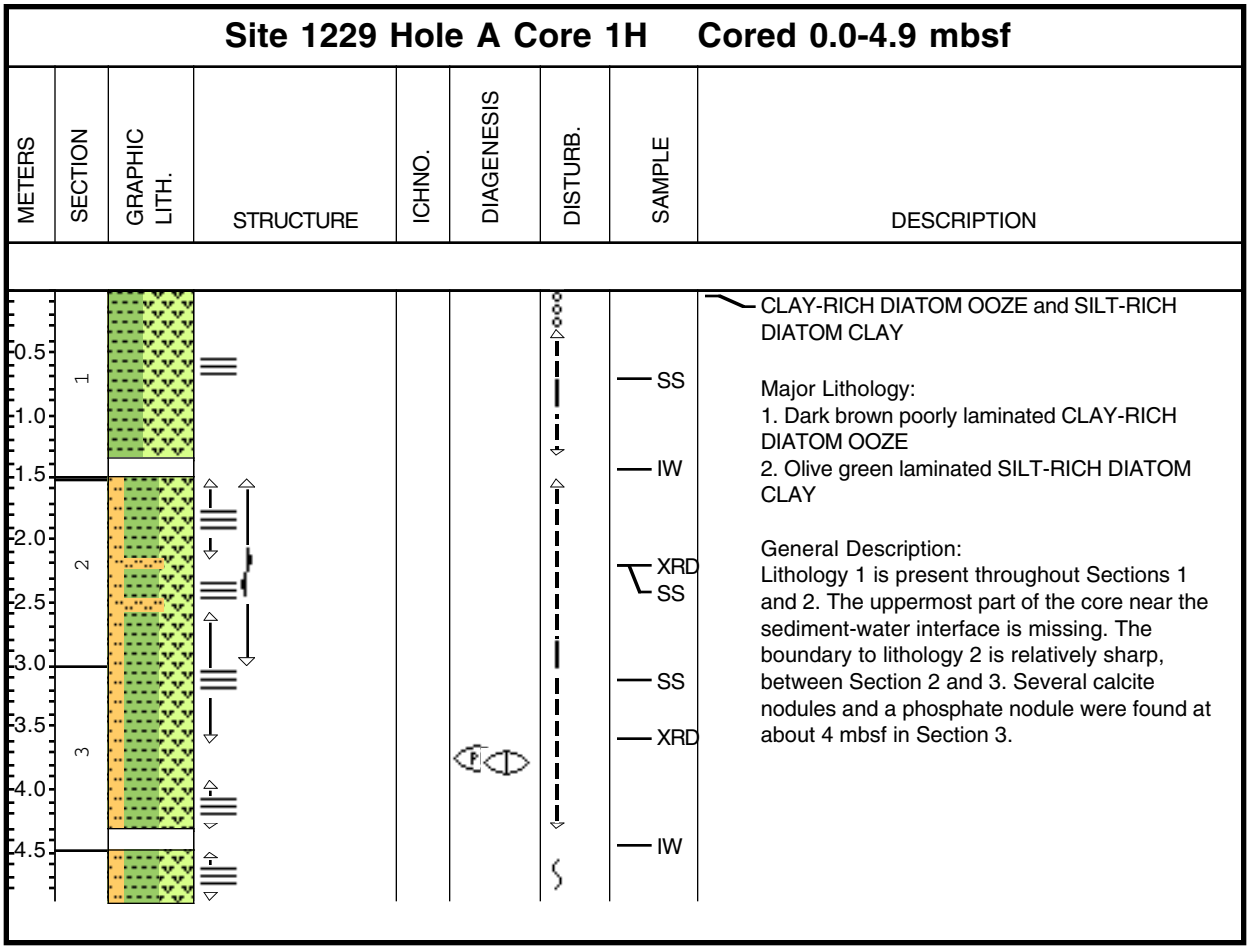
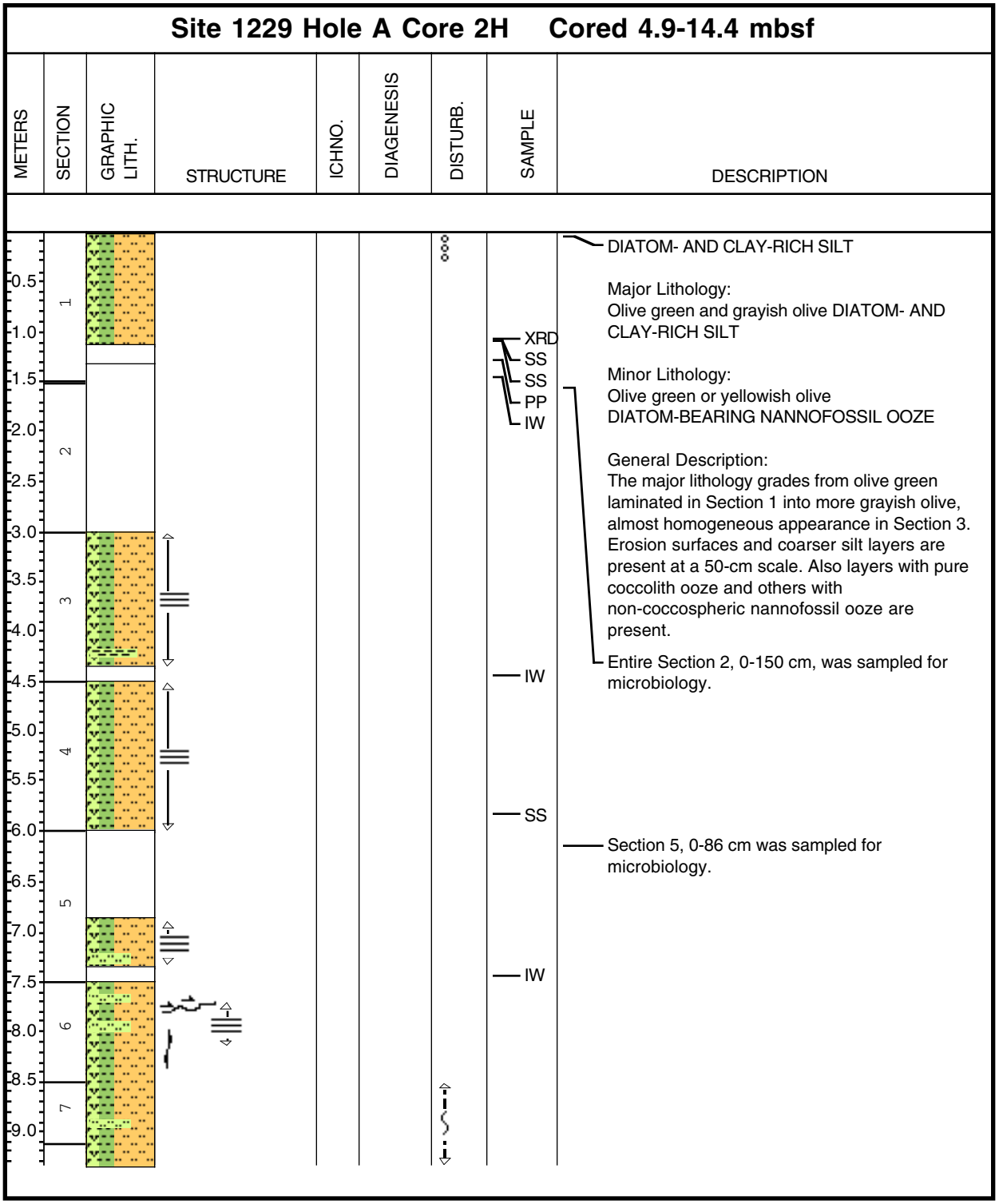
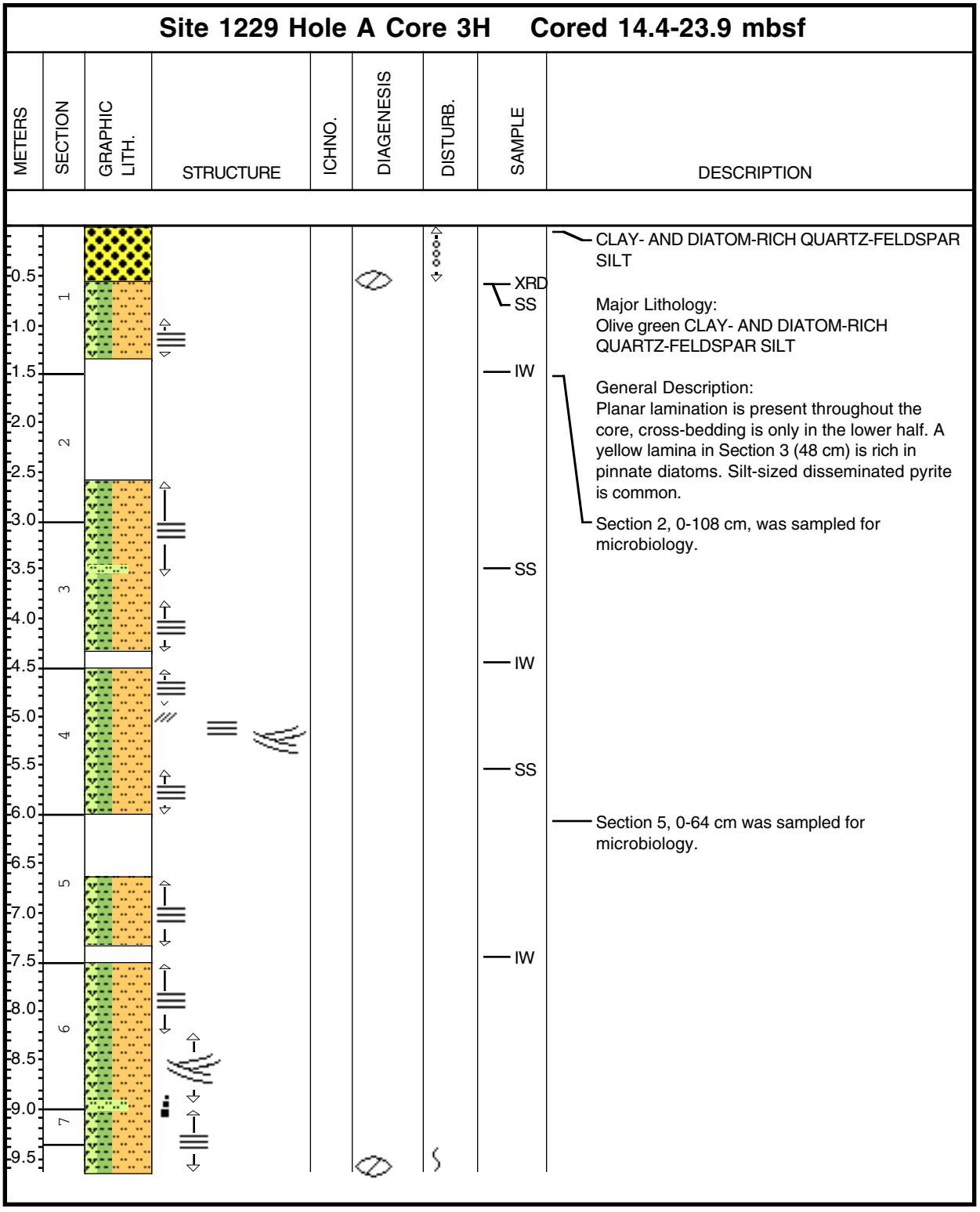
Core Photo


Site 1229 Hole A Core 1H Cored 0.0-4.9 mbsf
METERS
SECTION
GRAPHIC LITH.
STRUCTURE
ICHNO.
DIAGENESIS
DISTURB.
SAMPLE
DESCRIPTION
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
1
2
3
SS
IW
XRD
SS
SS
XRD
IW
P
CLAY-RICH DIATOM OOZE and SILT-RICH DIATOM CLAY
Major Lithology:
1. Dark brown poorly laminated CLAY-RICH DIATOM OOZE
2. Olive green laminated SILT-RICH DIATOM CLAY
General Description:
Lithology 1 is present throughout Sections 1 and 2. The uppermost part of the core near the sediment-water interface is missing. The boundary to lithology 2 is relatively sharp, between Section 2 and 3. Several calcite nodules and a phosphate nodule were found at about 4 mbsf in Section 3.

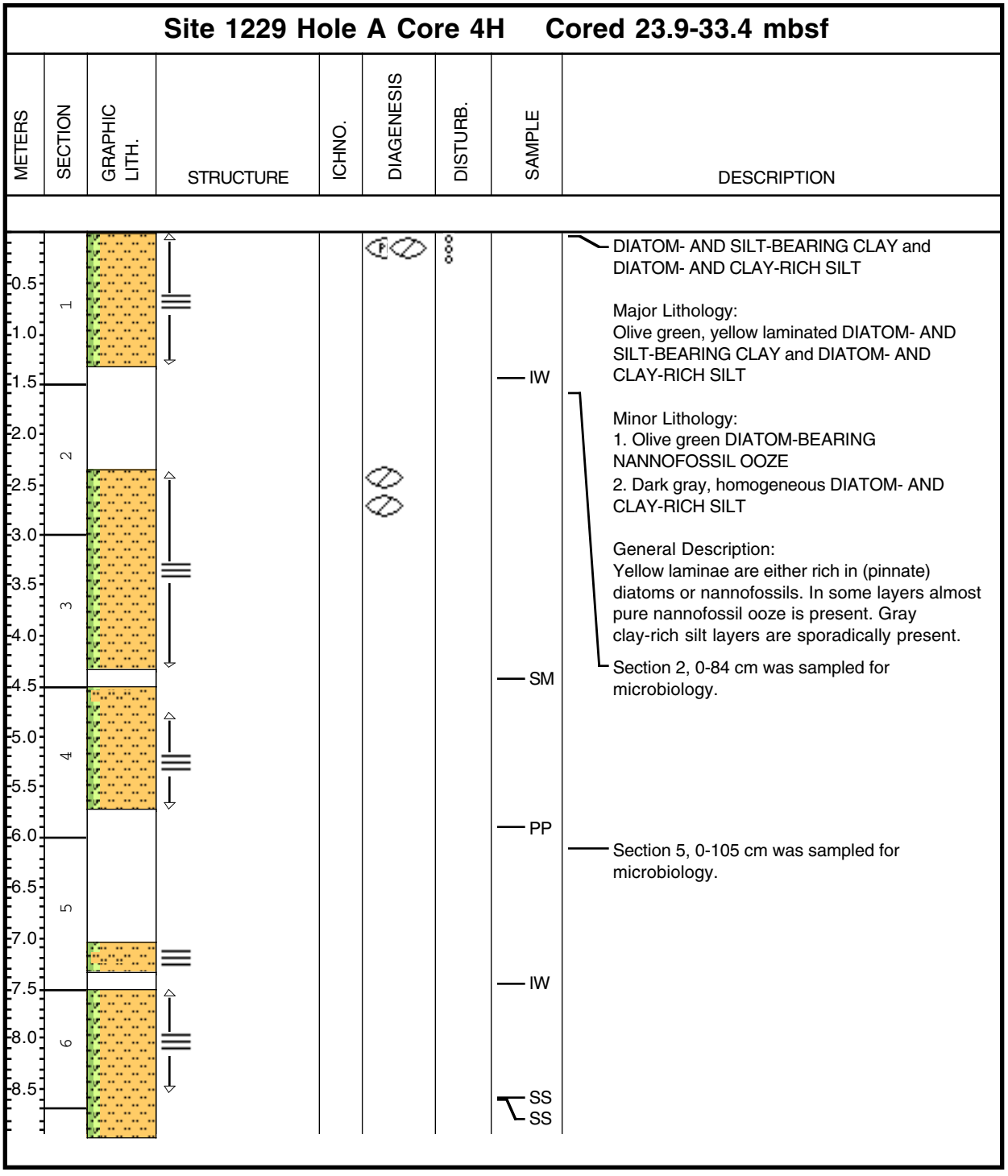
Core Photo


Site 1229 Hole A Core 2H Cored 4.9-14.4 mbsf
METERS
SECTION
GRAPHIC LITH.
STRUCTURE
ICHNO.
DIAGENESIS
DISTURB.
SAMPLE
DESCRIPTION
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
9.0
1
2
3
4
5
6
7
XRD
SS
SS
PP
IW
IW
SS
IW
DIATOM- AND CLAY-RICH SILT
Major Lithology:
Olive green and grayish olive DIATOM- AND CLAY-RICH SILT
Minor Lithology:
Olive green or yellowish olive DIATOM-BEARING NANNOFOSSIL OOZE
General Description:
The major lithology grades from olive green laminated in Section 1 into more grayish olive, almost homogeneous appearance in Section 3. Erosion surfaces and coarser silt layers are present at a 50-cm scale. Also layers with pure coccolith ooze and others with non-coccospheric nannofossil ooze are present.
Entire Section 2, 0-150 cm, was sampled for microbiology.
Section 5, 0-86 cm was sampled for microbiology.

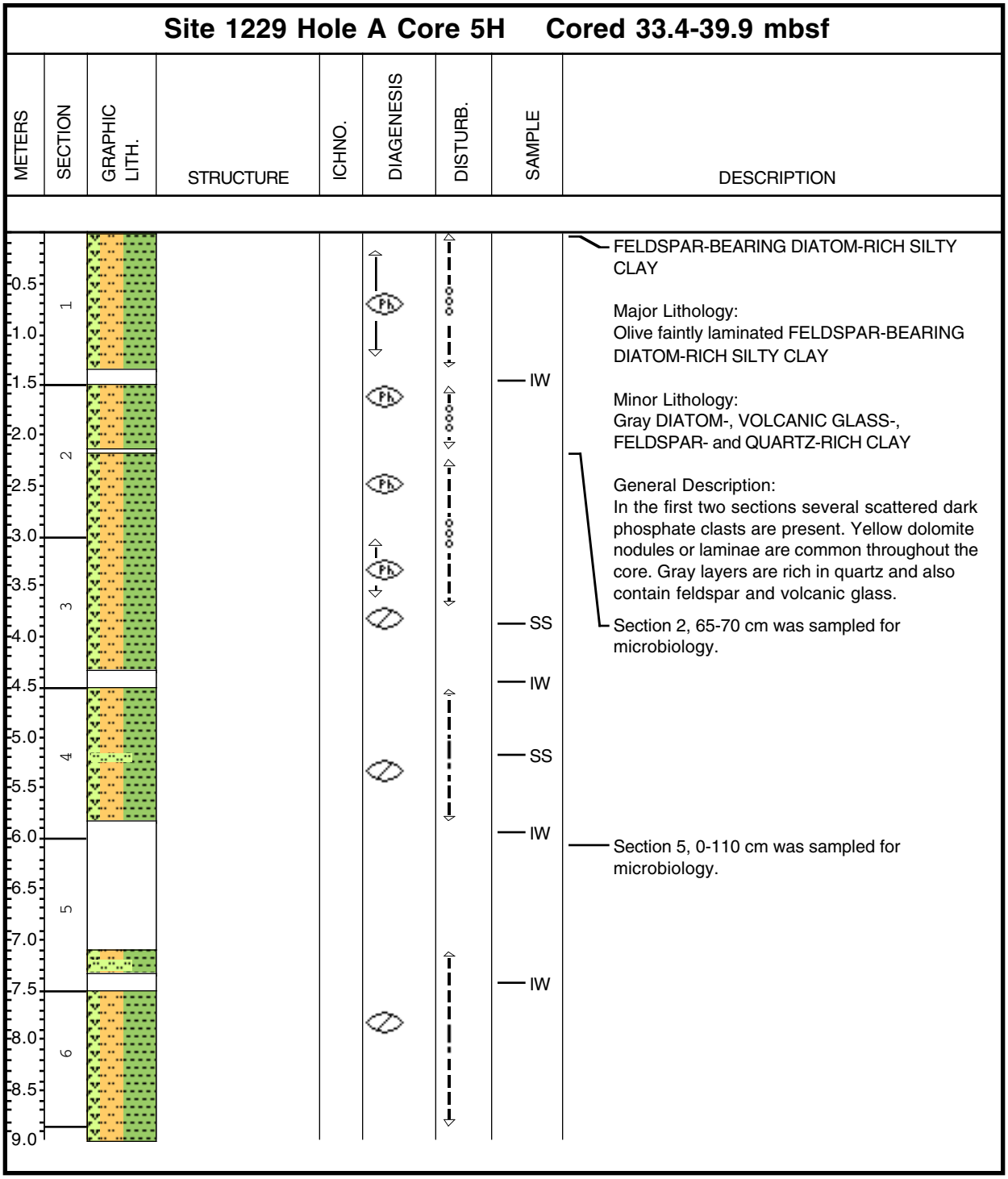
Core Photo


Site 1229 Hole A Core 3H Cored 14.4-23.9 mbsf
METERS
SECTION
GRAPHIC LITH.
STRUCTURE
ICHNO.
DIAGENESIS
DISTURB.
SAMPLE
DESCRIPTION
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
9.0
9.5
1
2
3
4
5
6
7
XRD
SS
IW
SS
IW
SS
IW
CLAY- AND DIATOM-RICH QUARTZ-FELDSPAR SILT
Major Lithology:
Olive green CLAY- AND DIATOM-RICH QUARTZ-FELDSPAR SILT
General Description:
Planar lamination is present throughout the core, cross-bedding is only in the lower half. A yellow lamina in Section 3 (48 cm) is rich in pinnate diatoms. Silt-sized disseminated pyrite is common.
Section 2, 0-108 cm, was sampled for microbiology.
Section 5, 0-64 cm was sampled for microbiology.

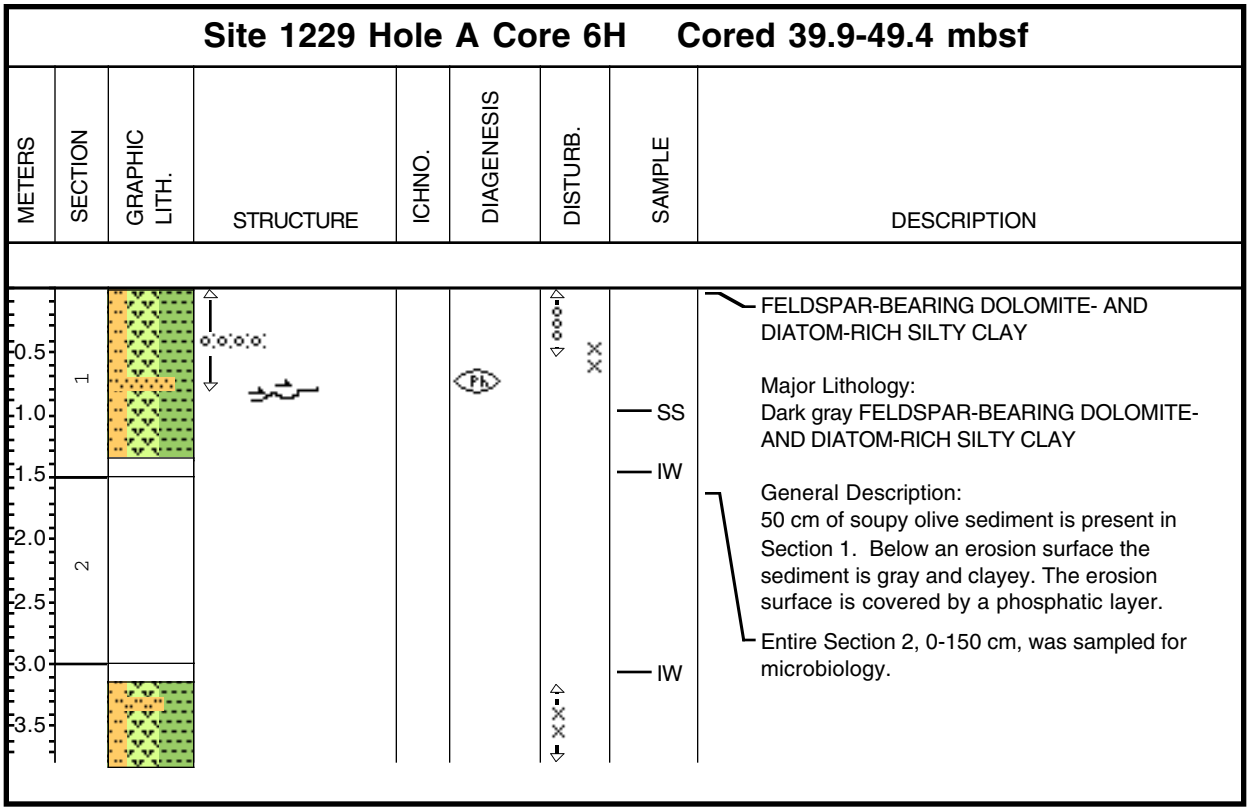
Core Photo


Site 1229 Hole A Core 4H Cored 23.9-33.4 mbsf
METERS
SECTION
GRAPHIC LITH.
STRUCTURE
ICHNO.
DIAGENESIS
DISTURB.
SAMPLE
DESCRIPTION
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
1
2
3
4
5
6
IW
SM
PP
IW
SS
SS
DIATOM- AND SILT-BEARING CLAY and DIATOM- AND CLAY-RICH SILT
Major Lithology:
Olive green, yellow laminated DIATOM- AND SILT-BEARING CLAY and DIATOM- AND CLAY-RICH SILT
Minor Lithology:
1. Olive green DIATOM-BEARING NANNOFOSSIL OOZE
2. Dark gray, homogeneous DIATOM- AND CLAY-RICH SILT
General Description:
Yellow laminae are either rich in (pinnate) diatoms or nannofossils. In some layers almost pure nannofossil ooze is present. Gray clay-rich silt layers are sporadically present.
Section 2, 0-84 cm was sampled for microbiology.
Section 5, 0-105 cm was sampled for microbiology.

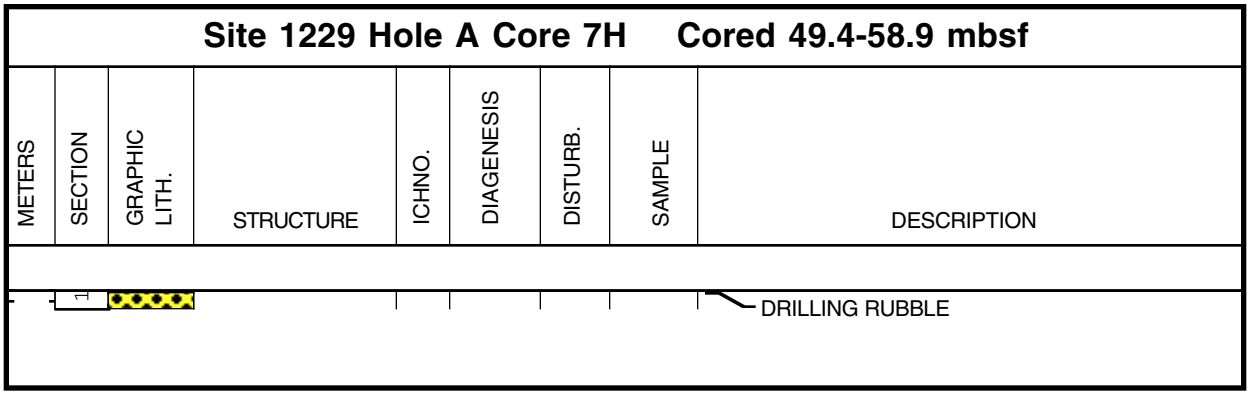
Core Photo


Site 1229 Hole A Core 5H Cored 33.4-39.9 mbsf
METERS
SECTION
GRAPHIC LITH.
STRUCTURE
ICHNO.
DIAGENESIS
DISTURB.
SAMPLE
DESCRIPTION
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
9.0
1
2
3
4
5
6
Ph
IW
SS
IW
SS
IW
IW
FELDSPAR-BEARING DIATOM-RICH SILTY CLAY
Major Lithology:
Olive faintly laminated FELDSPAR-BEARING DIATOM-RICH SILTY CLAY
Minor Lithology:
Gray DIATOM-, VOLCANIC GLASS-, FELDSPAR- and QUARTZ-RICH CLAY
General Description:
In the first two sections several scattered dark phosphate clasts are present. Yellow dolomite nodules or laminae are common throughout the core. Gray layers are rich in quartz and also contain feldspar and volcanic glass.
Section 2, 65-70 cm was sampled for microbiology.
Section 5, 0-110 cm was sampled for microbiology.

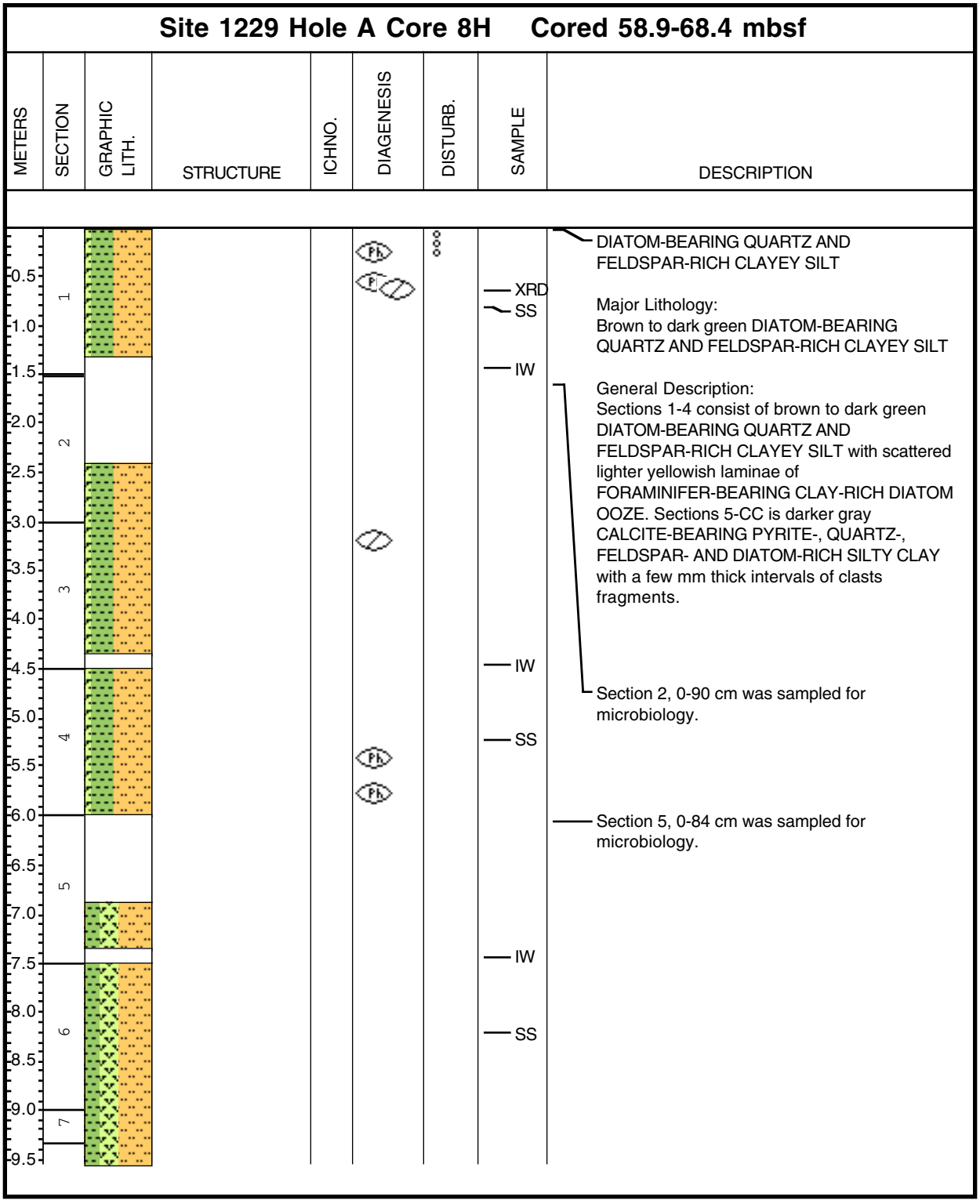
Core Photo


Site 1229 Hole A Core 6H Cored 39.9-49.4 mbsf
METERS
SECTION
GRAPHIC LITH.
STRUCTURE
ICHNO.
DIAGENESIS
DISTURB.
SAMPLE
DESCRIPTION
0.5
1.0
1.5
2.0
2.5
3.0
3.5
1
2
Ph
SS
IW
IW
FELDSPAR-BEARING DOLOMITE- AND DIATOM-RICH SILTY CLAY
Major Lithology:
Dark gray FELDSPAR-BEARING DOLOMITE- AND DIATOM-RICH SILTY CLAY
General Description:
50 cm of soupy olive sediment is present in Section 1. Below an erosion surface the sediment is gray and clayey. The erosion surface is covered by a phosphatic layer.
Entire Section 2, 0-150 cm, was sampled for microbiology.

Core Photo


Site 1229 Hole A Core 7H Cored 49.4-58.9 mbsf
METERS
SECTION
GRAPHIC LITH.
STRUCTURE
ICHNO.
DIAGENESIS
DISTURB.
SAMPLE
DESCRIPTION
1
DRILLING RUBBLE

Core Photo


Site 1229 Hole A Core 8H Cored 58.9-68.4 mbsf
METERS
SECTION
GRAPHIC LITH.
STRUCTURE
ICHNO.
DIAGENESIS
DISTURB.
SAMPLE
DESCRIPTION
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
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6.5
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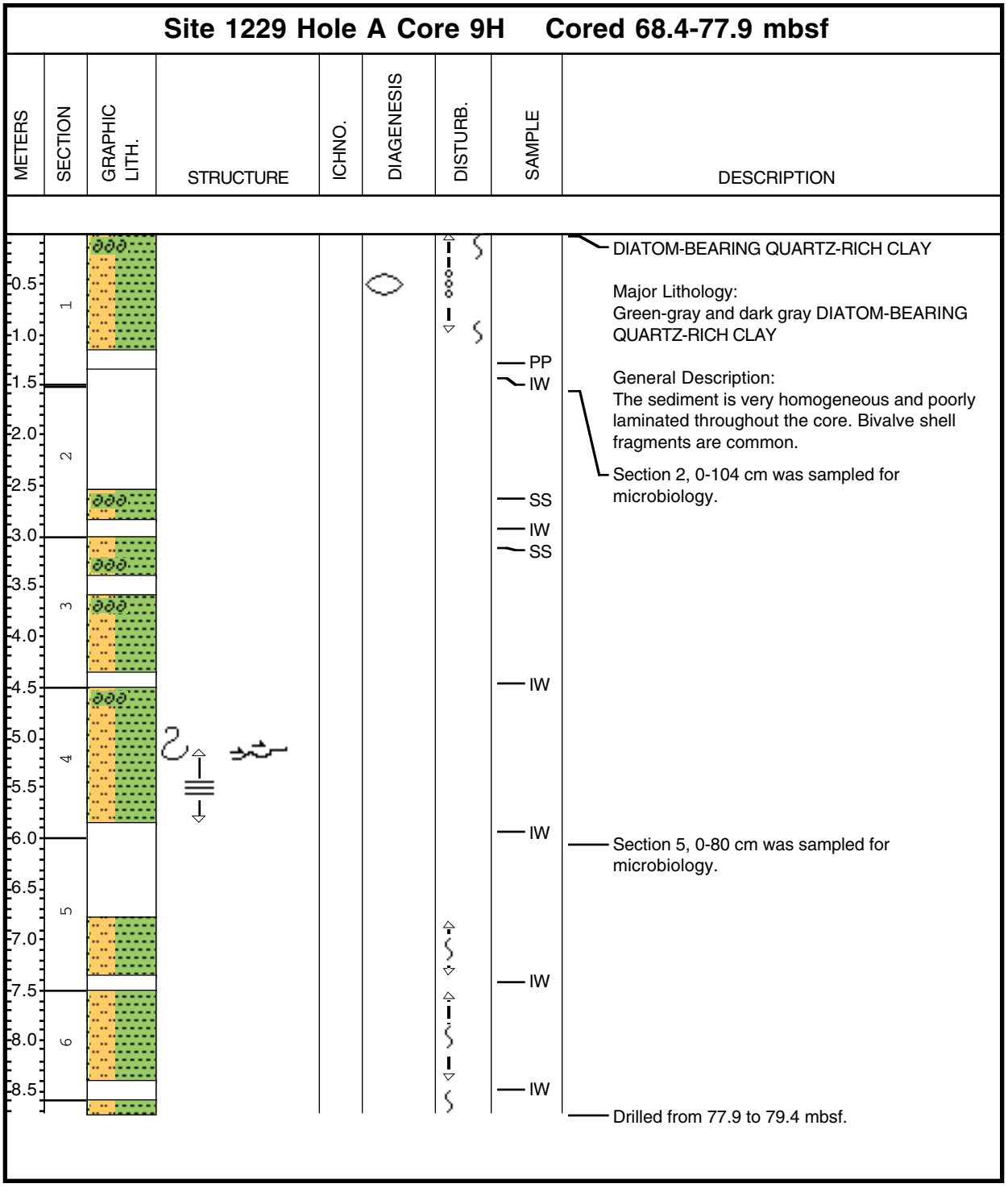
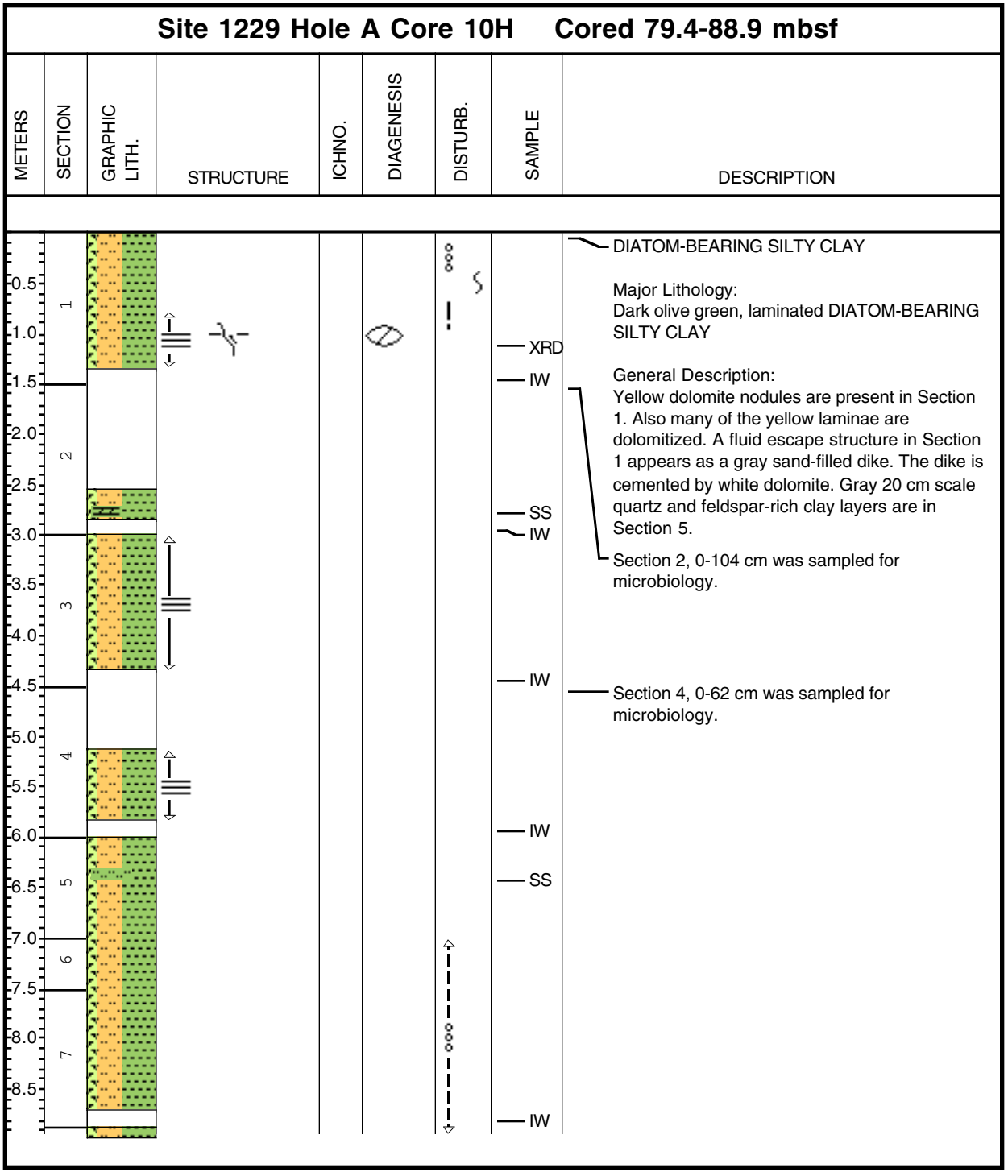
7.5
8.0
8.5
9.0
9.5
1
2
3
4
5
6
7
Ph
P
XRD
SS
IW
IW
SS
IW
SS
DIATOM-BEARING QUARTZ AND FELDSPAR-RICH CLAYEY SILT
Major Lithology:
Brown to dark green DIATOM-BEARING QUARTZ AND FELDSPAR-RICH CLAYEY SILT
General Description:
Sections 1-4 consist of brown to dark green DIATOM-BEARING QUARTZ AND FELDSPAR-RICH CLAYEY SILT with scattered lighter yellowish laminae of FORAMINIFER-BEARING CLAY-RICH DIATOM OOZE. Sections 5-CC is darker gray CALCITE-BEARING PYRITE-, QUARTZ-, FELDSPAR- AND DIATOM-RICH SILTY CLAY with a few mm thick intervals of clasts fragments.
Section 2, 0-90 cm was sampled for microbiology.
Section 5, 0-84 cm was sampled for microbiology.

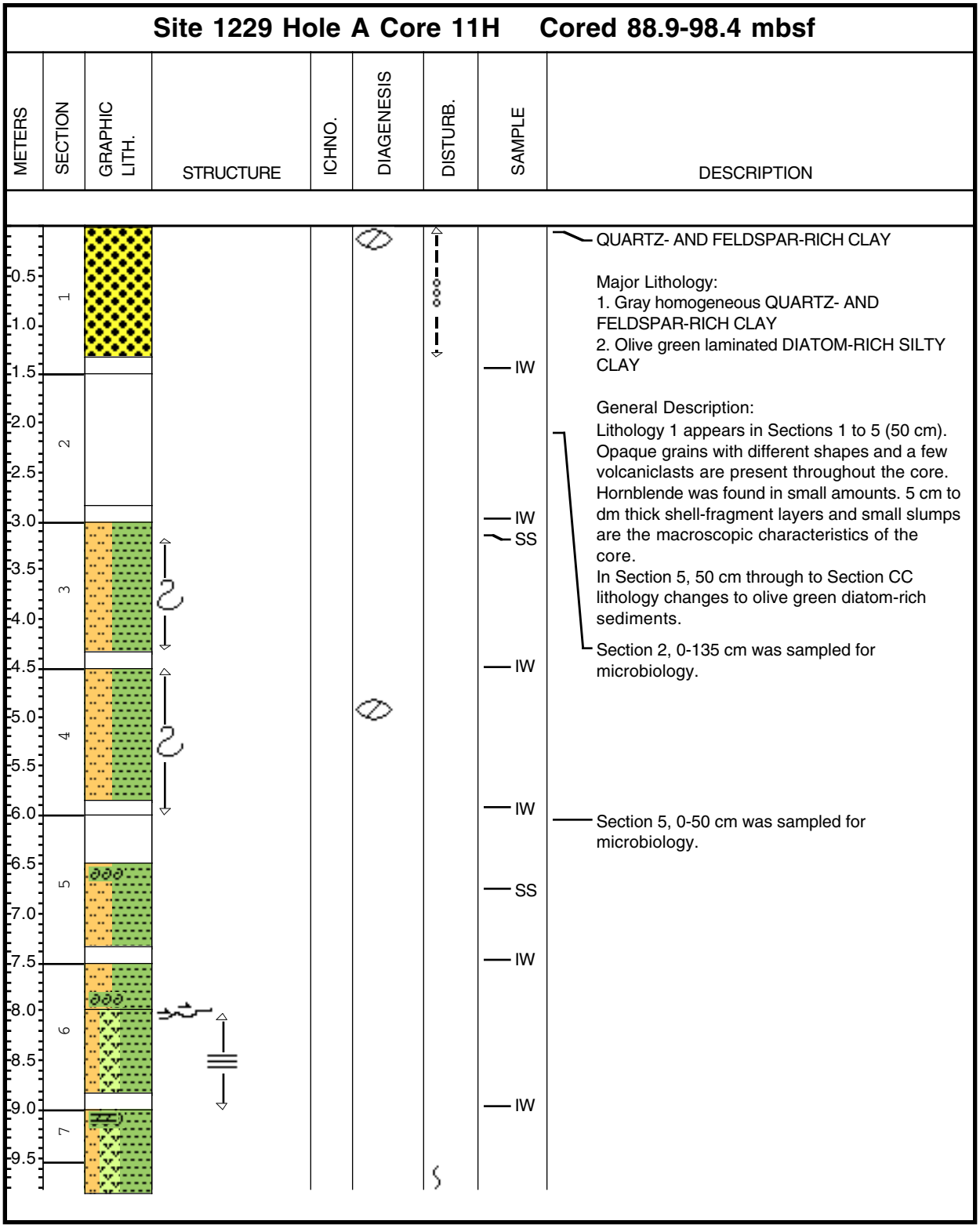
Core Photo


Site 1229 Hole A Core 9H Cored 68.4-77.9 mbsf
METERS
SECTION
GRAPHIC LITH.
STRUCTURE
ICHNO.
DIAGENESIS
DISTURB.
SAMPLE
DESCRIPTION
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
1
2
3
4
5
6
PP
IW
SS
IW
SS
IW
IW
IW
IW
DIATOM-BEARING QUARTZ-RICH CLAY
Major Lithology:
Green-gray and dark gray DIATOM-BEARING QUARTZ-RICH CLAY
General Description:
The sediment is very homogeneous and poorly laminated throughout the core. Bivalve shell fragments are common.
Section 2, 0-104 cm was sampled for microbiology.
Section 5, 0-80 cm was sampled for microbiology.
Drilled from 77.9 to 79.4 mbsf.

Core Photo

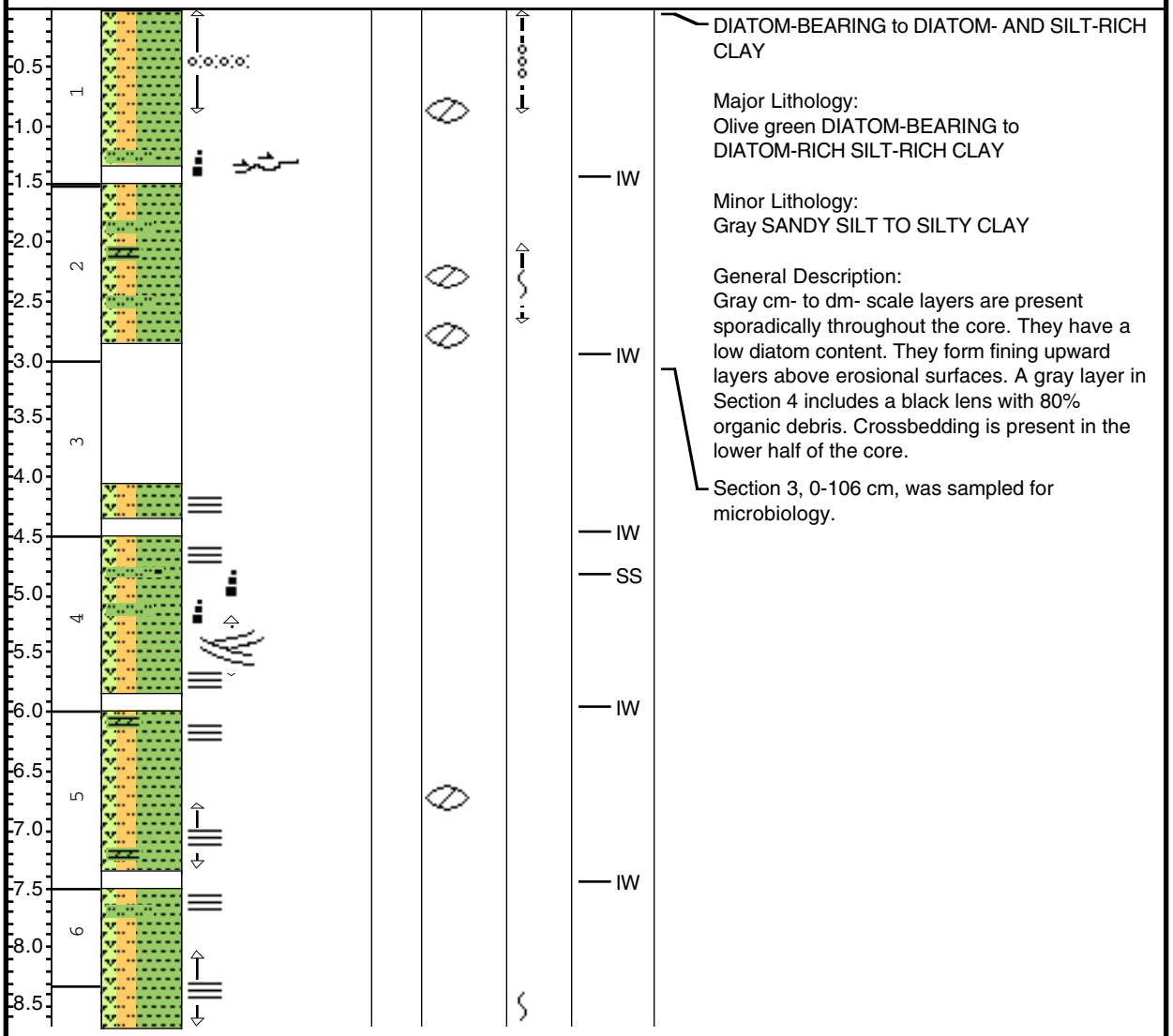

Site 1229 Hole A Core 10H Cored 79.4-88.9 mbsf
METERS
SECTION
GRAPHIC LITH.
STRUCTURE
ICHNO.
DIAGENESIS
DISTURB.
SAMPLE
DESCRIPTION
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
1
2
3
4
5
6
7
XRD
IW
SS
IW
IW
IW
SS
IW
DIATOM-BEARING SILTY CLAY
Major Lithology:
Dark olive green, laminated DIATOM-BEARING SILTY CLAY
General Description:
Yellow dolomite nodules are present in Section 1. Also many of the yellow laminae are dolomitized. A fluid escape structure in Section 1 appears as a gray sand-filled dike. The dike is cemented by white dolomite. Gray 20 cm scale quartz and feldspar-rich clay layers are in Section 5.
Section 2, 0-104 cm was sampled for microbiology.
Section 4, 0-62 cm was sampled for microbiology.

Core Photo

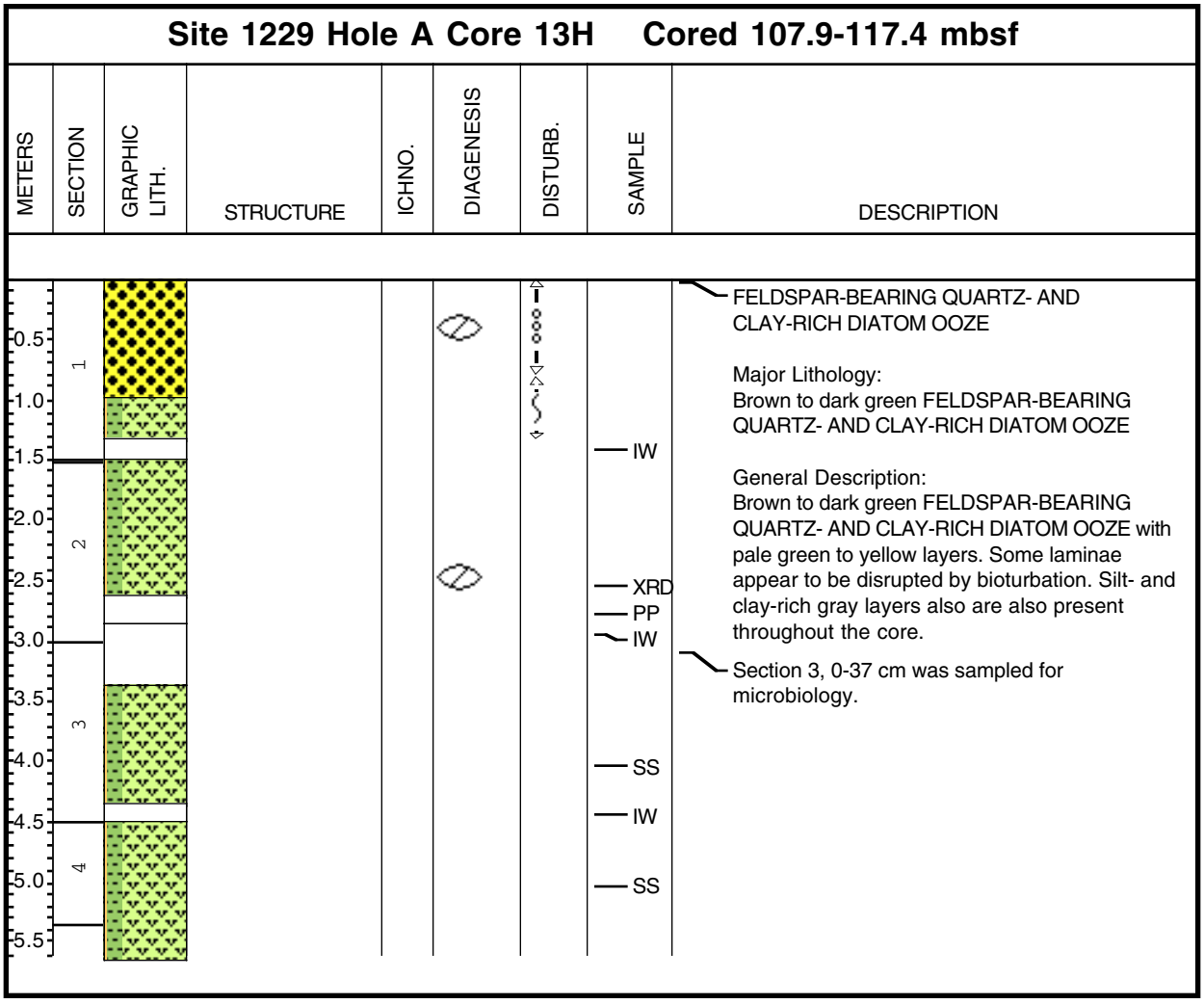

Site 1229 Hole A Core 11H Cored 88.9-98.4 mbsf
METERS
SECTION
GRAPHIC LITH.
STRUCTURE
ICHNO.
DIAGENESIS
DISTURB.
SAMPLE
DESCRIPTION
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
9.0
9.5
1
2
3
4
5
6
7
IW
IW
SS
IW
IW
SS
IW
IW
QUARTZ- AND FELDSPAR-RICH CLAY
Major Lithology:
1. Gray homogeneous QUARTZ- AND FELDSPAR-RICH CLAY
2. Olive green laminated DIATOM-RICH SILTY CLAY
General Description:
Lithology 1 appears in Sections 1 to 5 (50 cm). Opaque grains with different shapes and a few volcaniclasts are present throughout the core. Hornblende was found in small amounts. 5 cm to dm thick shell-fragment layers and small slumps are the macroscopic characteristics of the core.
In Section 5, 50 cm through to Section CC lithology changes to olive green diatom-rich sediments.
Section 2, 0-135 cm was sampled for microbiology.
Section 5, 0-50 cm was sampled for microbiology.

Core Photo

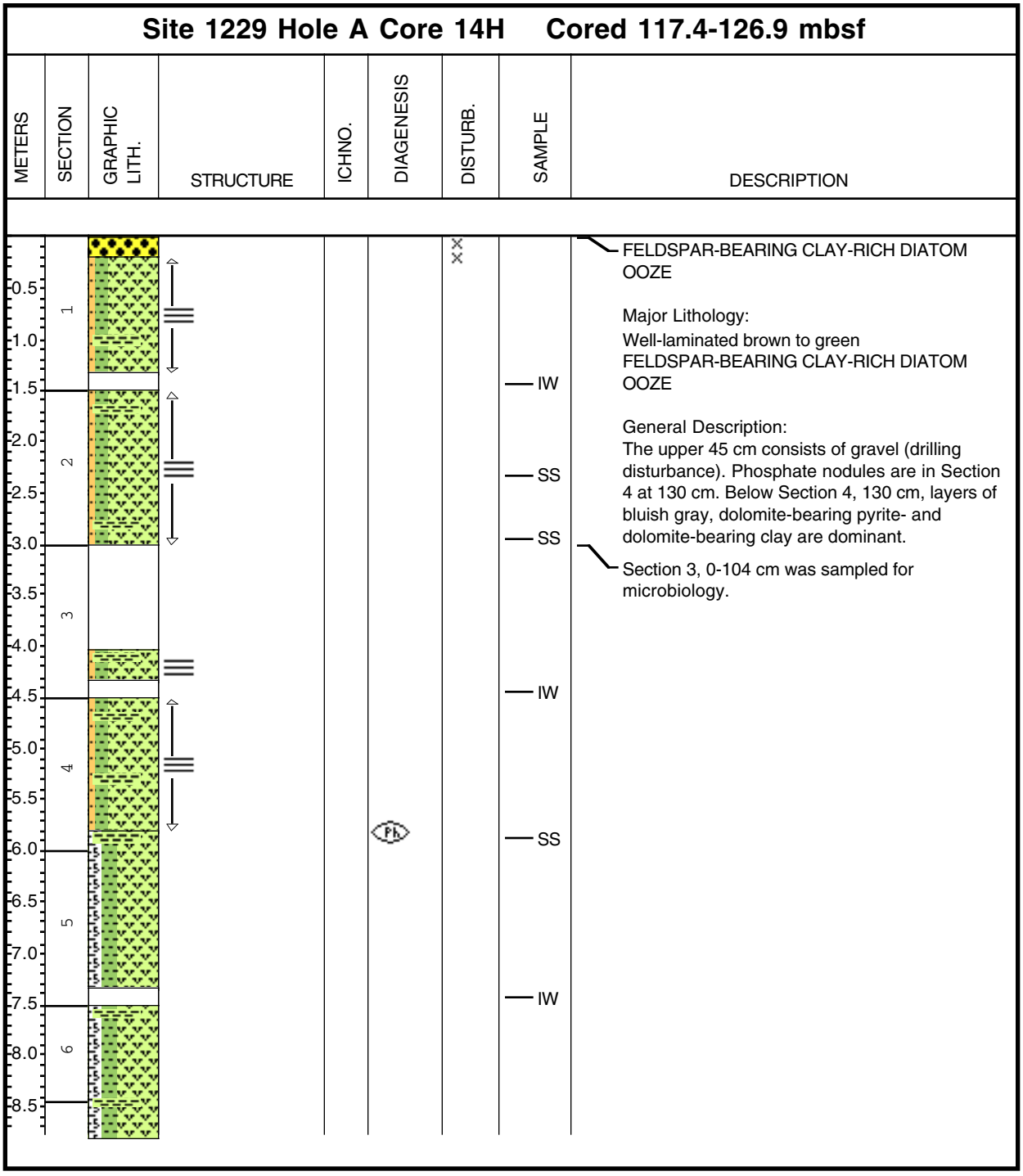
Site 1229 Hole A Core 12H Cored 98.4-107.9 mbsf



Core Photo

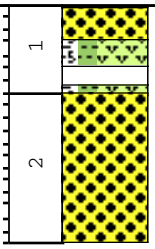

Site 1229 Hole A Core 13H Cored 107.9-117.4 mbsf
METERS
SECTION
GRAPHIC LITH.
STRUCTURE
ICHNO.
DIAGENESIS
DISTURB.
SAMPLE
DESCRIPTION
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
1
2
3
4
IW
XRD
PP
IW
SS
IW
SS
FELDSPAR-BEARING QUARTZ- AND CLAY-RICH DIATOM OOZE
Major Lithology:
Brown to dark green FELDSPAR-BEARING QUARTZ- AND CLAY-RICH DIATOM OOZE
General Description:
Brown to dark green FELDSPAR-BEARING QUARTZ- AND CLAY-RICH DIATOM OOZE with pale green to yellow layers. Some laminae appear to be disrupted by bioturbation. Silt- and clay-rich gray layers also are also present throughout the core.
Section 3, 0-37 cm was sampled for microbiology.

Core Photo

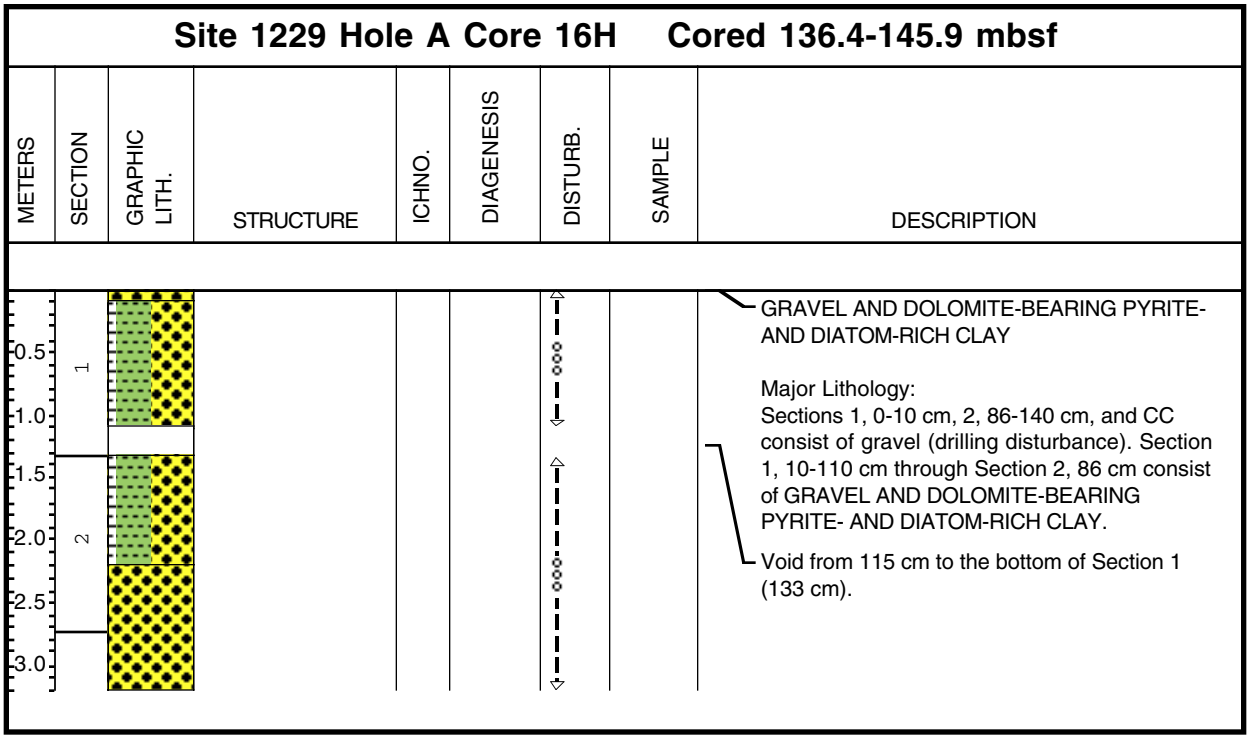

Site 1229 Hole A Core 14H Cored 117.4-126.9 mbsf
METERS
SECTION
GRAPHIC LITH.
STRUCTURE
ICHNO.
DIAGENESIS
DISTURB.
SAMPLE
DESCRIPTION
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
1
2
3
4
5
6
IW
SS
SS
IW
SS
IW
Ph
FELDSPAR-BEARING CLAY-RICH DIATOM OOZE
Major Lithology:
Well-laminated brown to green FELDSPAR-BEARING CLAY-RICH DIATOM OOZE
General Description:
The upper 45 cm consists of gravel (drilling disturbance). Phosphate nodules are in Section 4 at 130 cm. Below Section 4, 130 cm, layers of bluish gray, dolomite-bearing pyrite- and dolomite-bearing clay are dominant.
Section 3, 0-104 cm was sampled for microbiology.

Core Photo

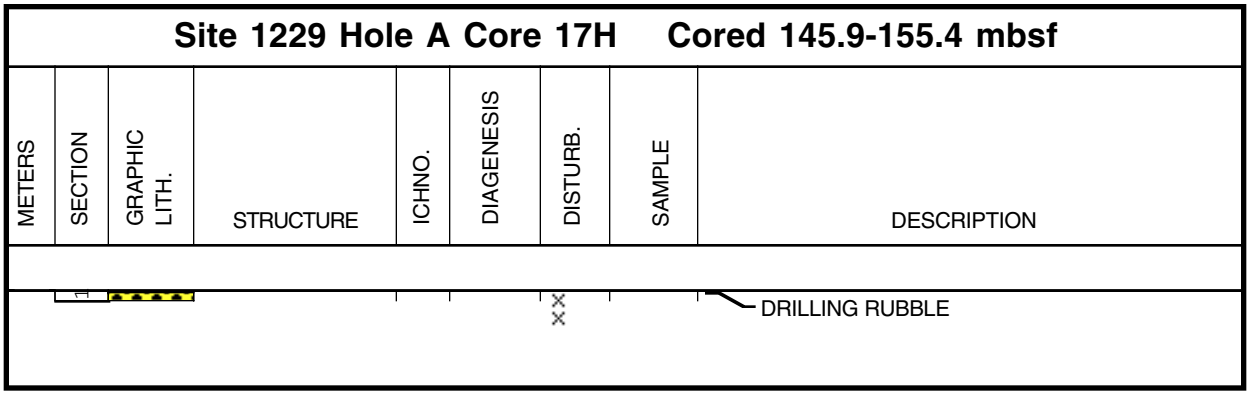
Site 1229 Hole A Core 15H Cored 126.9-136.4 mbsf

METERS	SECTION	GRAPHIC LITH.	STRUCTURE	ICHNO.	DIAGENESIS	DISTURB.	SAMPLE	DESCRIPTION
0.5 1.0 1.5	1 2						IW	GRAVEL AND DOLOMITE-BEARING PYRITE- AND DIATOM-RICH CLAY Major Lithology: Sections 1, 0-30 cm and 2, 0-70 cm consist of gravel (drilling disturbance). Section 1, 30-73 cm consists of GRAVEL AND DOLOMITE-BEARING PYRITE- AND DIATOM-RICH CLAY.

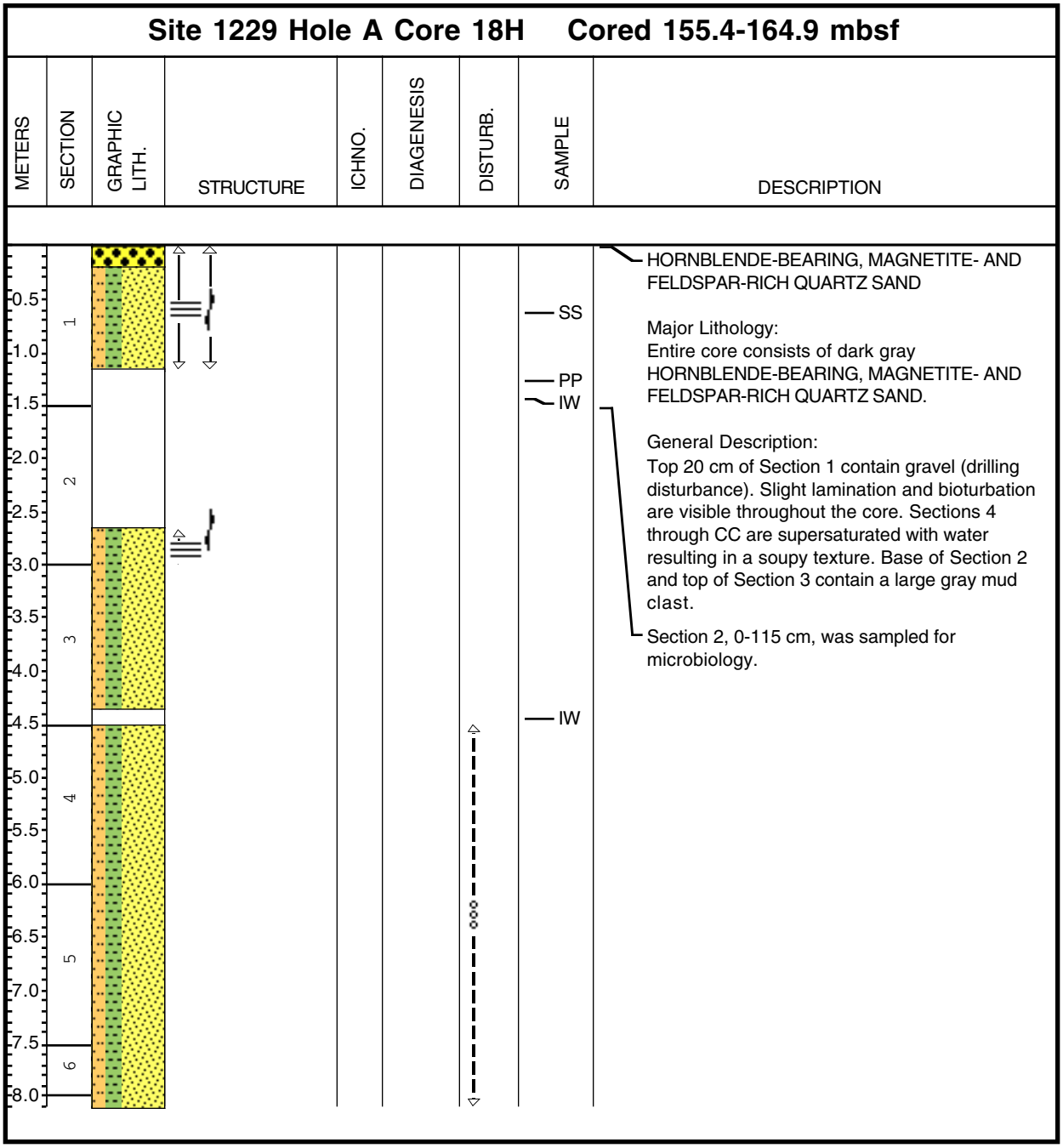
Core Photo


Site 1229 Hole A Core 16H Cored 136.4-145.9 mbsf
METERS
SECTION
GRAPHIC LITH.
STRUCTURE
ICHNO.
DIAGENESIS
DISTURB.
SAMPLE
DESCRIPTION
0.5
1.0
1.5
2.0
2.5
3.0
1
2
GRAVEL AND DOLOMITE-BEARING PYRITE- AND DIATOM-RICH CLAY
Major Lithology:
Sections 1, 0-10 cm, 2, 86-140 cm, and CC consist of gravel (drilling disturbance). Section 1, 10-110 cm through Section 2, 86 cm consist of GRAVEL AND DOLOMITE-BEARING PYRITE- AND DIATOM-RICH CLAY.
Void from 115 cm to the bottom of Section 1 (133 cm).

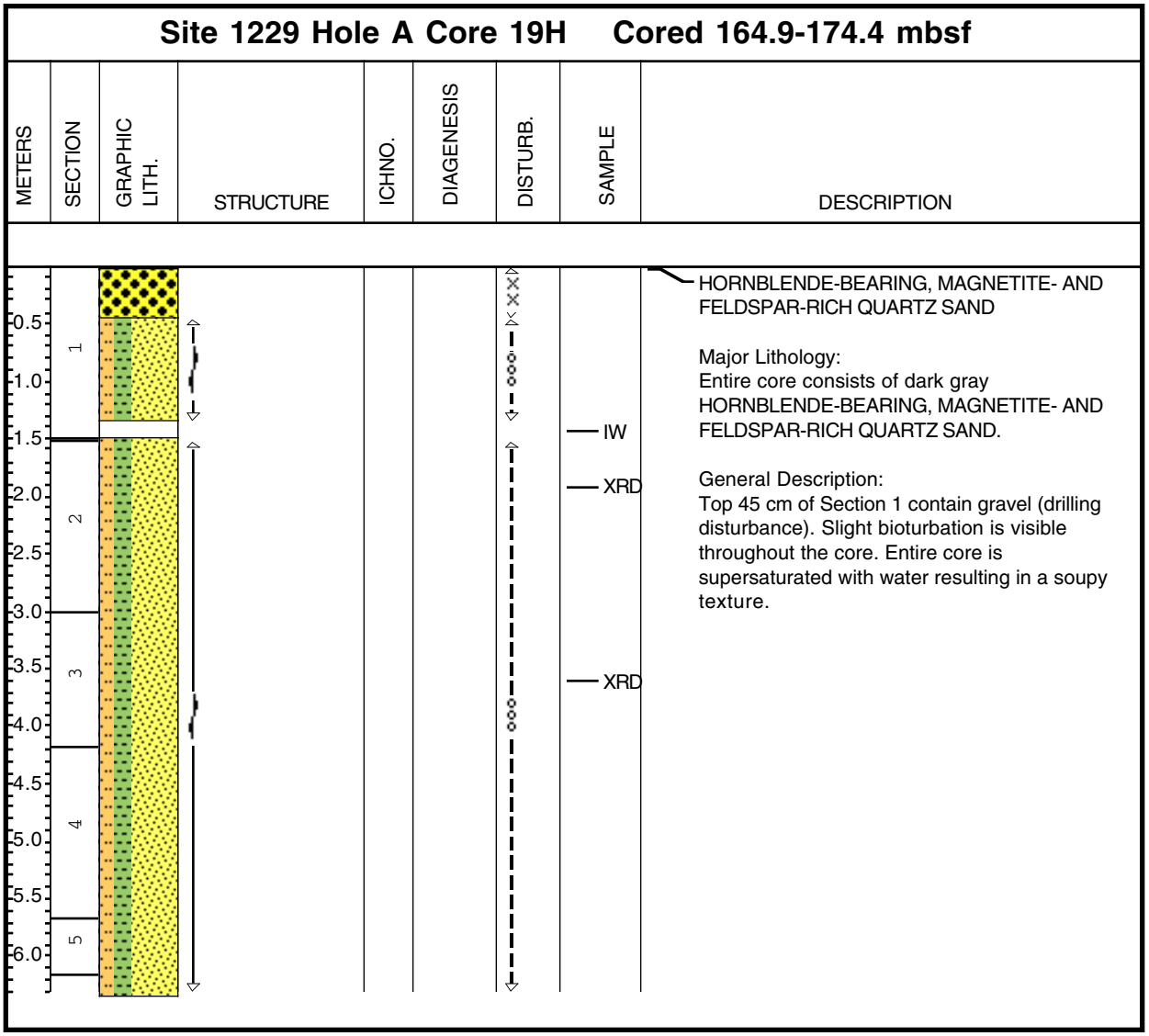
Core Photo


Site 1229 Hole A Core 17H Cored 145.9-155.4 mbsf
METERS
SECTION
GRAPHIC LITH.
STRUCTURE
ICHNO.
DIAGENESIS
DISTURB.
SAMPLE
DESCRIPTION
1
DRILLING RUBBLE

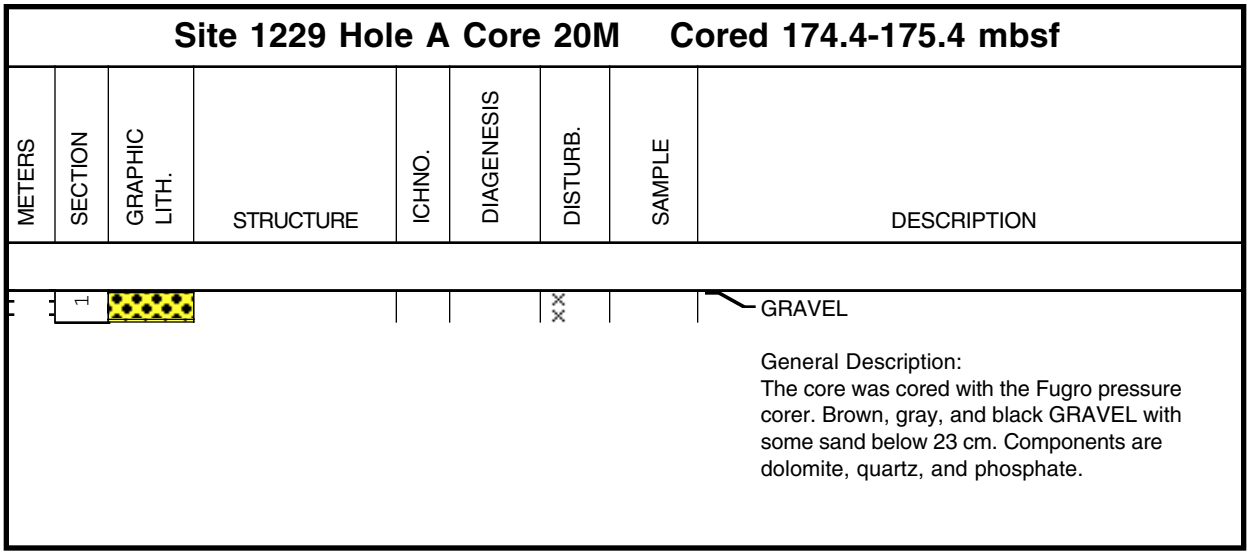
Core Photo


Site 1229 Hole A Core 18H Cored 155.4-164.9 mbsf
METERS
SECTION
GRAPHIC LITH.
STRUCTURE
ICHNO.
DIAGENESIS
DISTURB.
SAMPLE
DESCRIPTION
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
1
2
3
4
5
6
SS
PP
IW
IW
HORNBLENDE-BEARING, MAGNETITE- AND FELDSPAR-RICH QUARTZ SAND
Major Lithology:
Entire core consists of dark gray HORNBLENDE-BEARING, MAGNETITE- AND FELDSPAR-RICH QUARTZ SAND.
General Description:
Top 20 cm of Section 1 contain gravel (drilling disturbance). Slight lamination and bioturbation are visible throughout the core. Sections 4 through CC are supersaturated with water resulting in a soupy texture. Base of Section 2 and top of Section 3 contain a large gray mud clast.
Section 2, 0-115 cm, was sampled for microbiology.

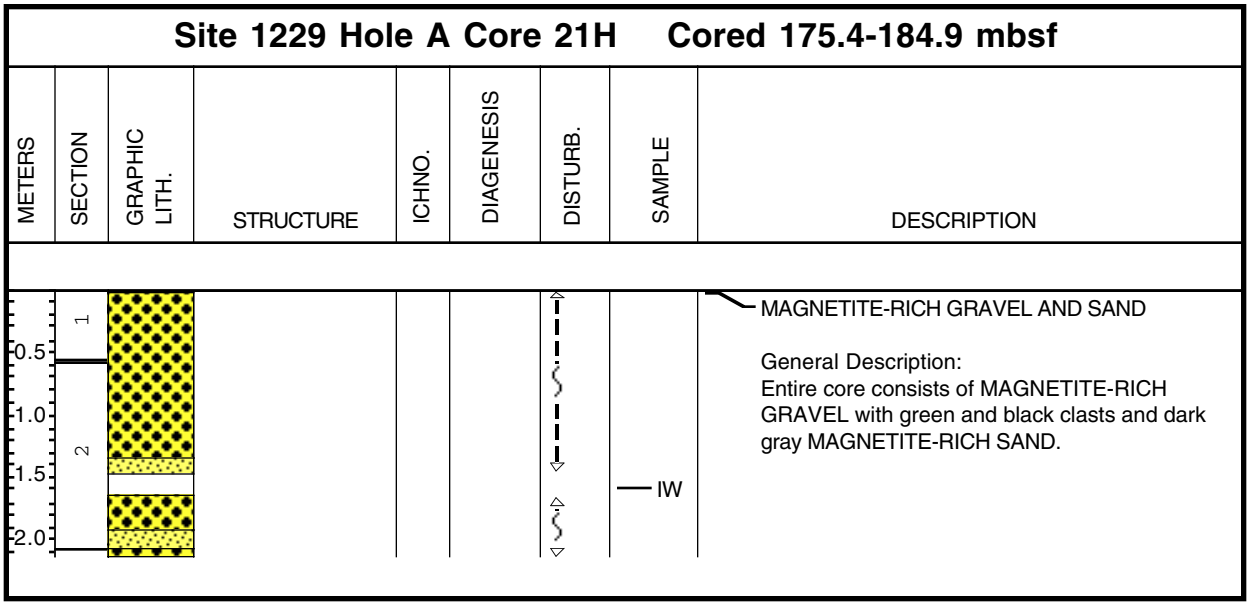
Core Photo


Site 1229 Hole A Core 19H Cored 164.9-174.4 mbsf
METERS
SECTION
GRAPHIC LITH.
STRUCTURE
ICHNO.
DIAGENESIS
DISTURB.
SAMPLE
DESCRIPTION
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
1
2
3
4
5
IW
XRD
XRD
HORNBLENDE-BEARING, MAGNETITE- AND FELDSPAR-RICH QUARTZ SAND
Major Lithology:
Entire core consists of dark gray HORNBLENDE-BEARING, MAGNETITE- AND FELDSPAR-RICH QUARTZ SAND.
General Description:
Top 45 cm of Section 1 contain gravel (drilling disturbance). Slight bioturbation is visible throughout the core. Entire core is supersaturated with water resulting in a soupy texture.

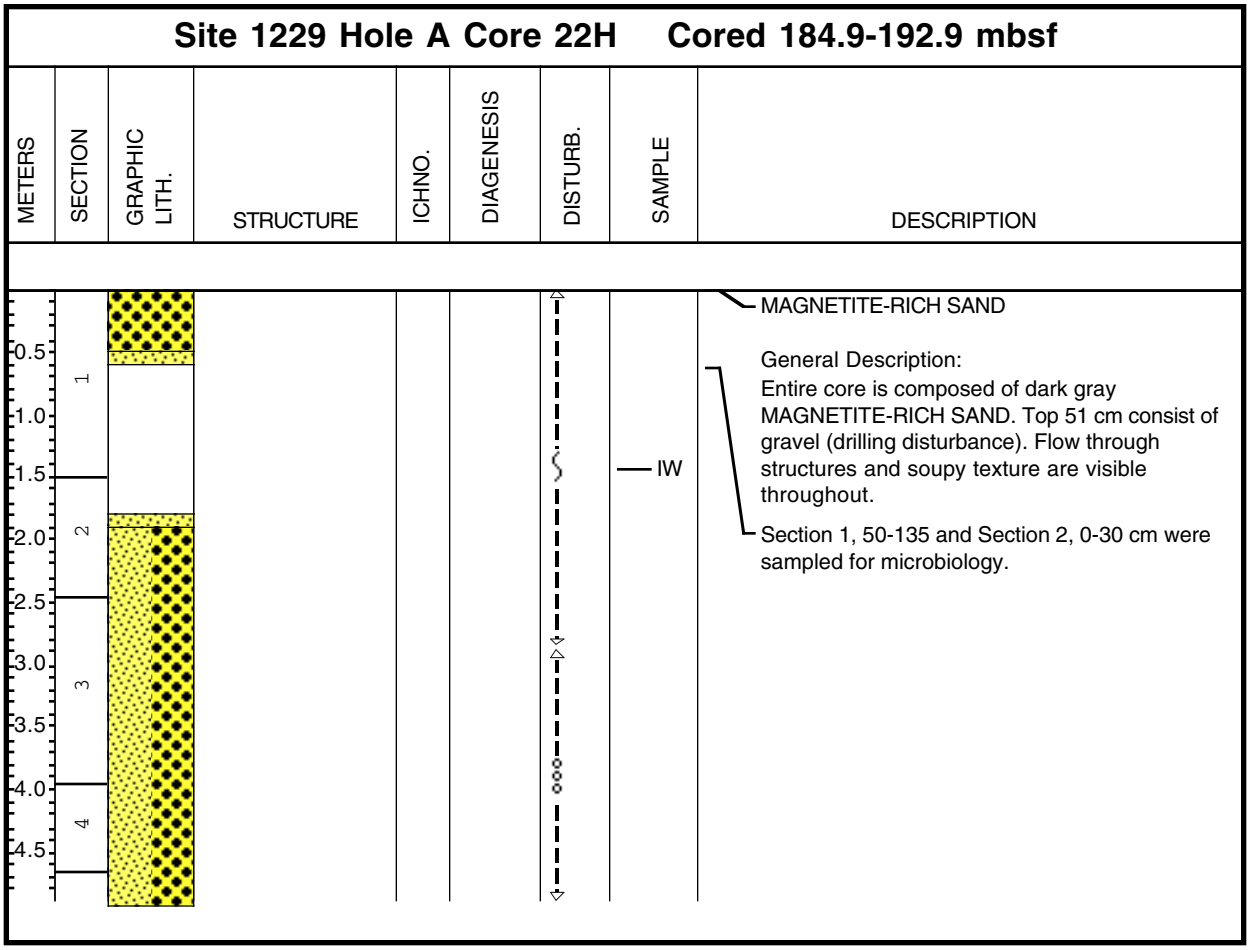
Core Photo


Site 1229 Hole A Core 20M Cored 174.4-175.4 mbsf
METERS
SECTION
GRAPHIC LITH.
STRUCTURE
ICHNO.
DIAGENESIS
DISTURB.
SAMPLE
DESCRIPTION
1
GRAVEL
General Description:
The core was cored with the Fugro pressure corer. Brown, gray, and black GRAVEL with some sand below 23 cm. Components are dolomite, quartz, and phosphate.

Core Photo

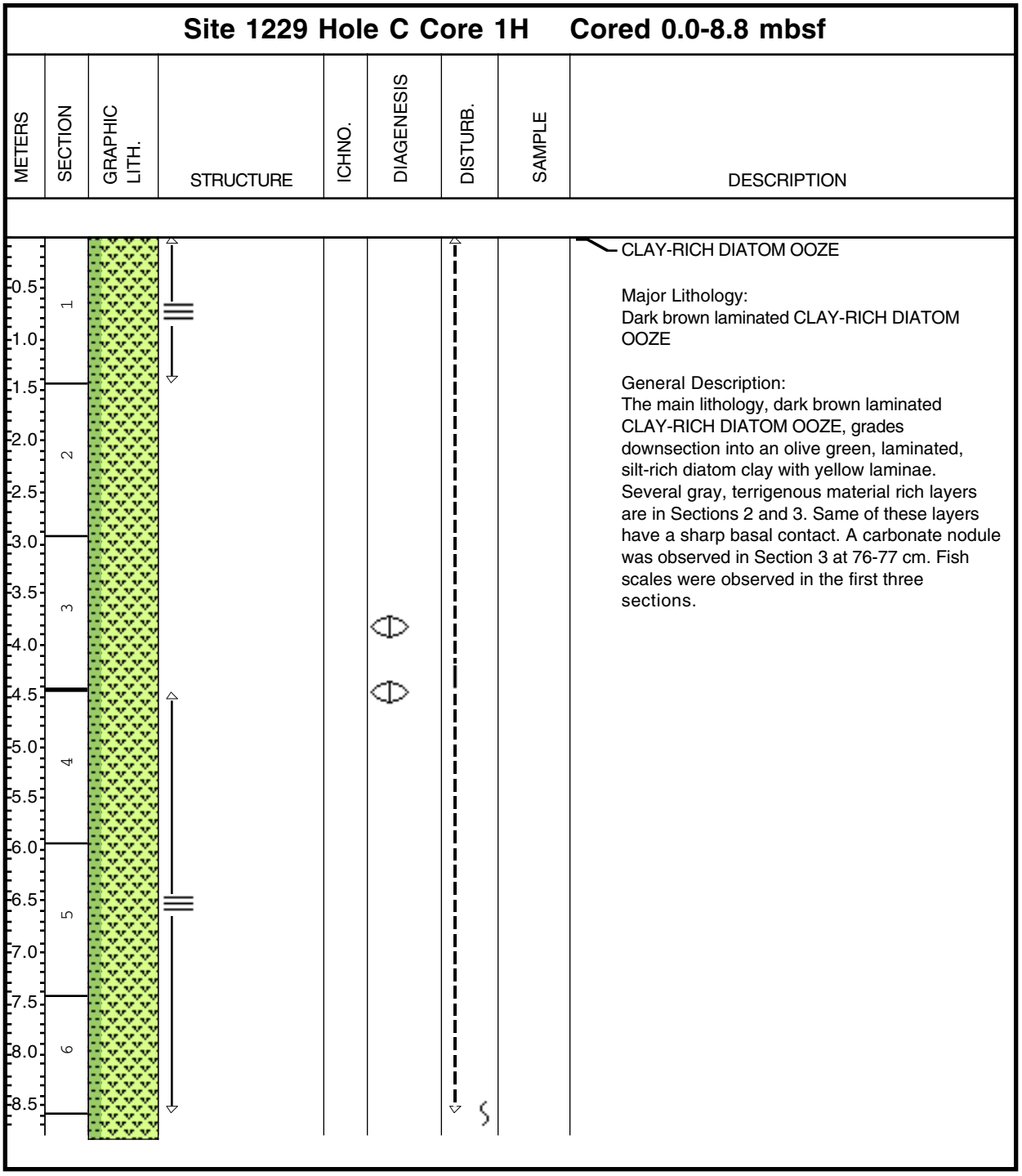

Site 1229 Hole A Core 21H Cored 175.4-184.9 mbsf
METERS
SECTION
GRAPHIC LITH.
STRUCTURE
ICHNO.
DIAGENESIS
DISTURB.
SAMPLE
DESCRIPTION
0.5
1.0
1.5
2.0
1
2
IW
MAGNETITE-RICH GRAVEL AND SAND
General Description:
Entire core consists of MAGNETITE-RICH GRAVEL with green and black clasts and dark gray MAGNETITE-RICH SAND.

Core Photo

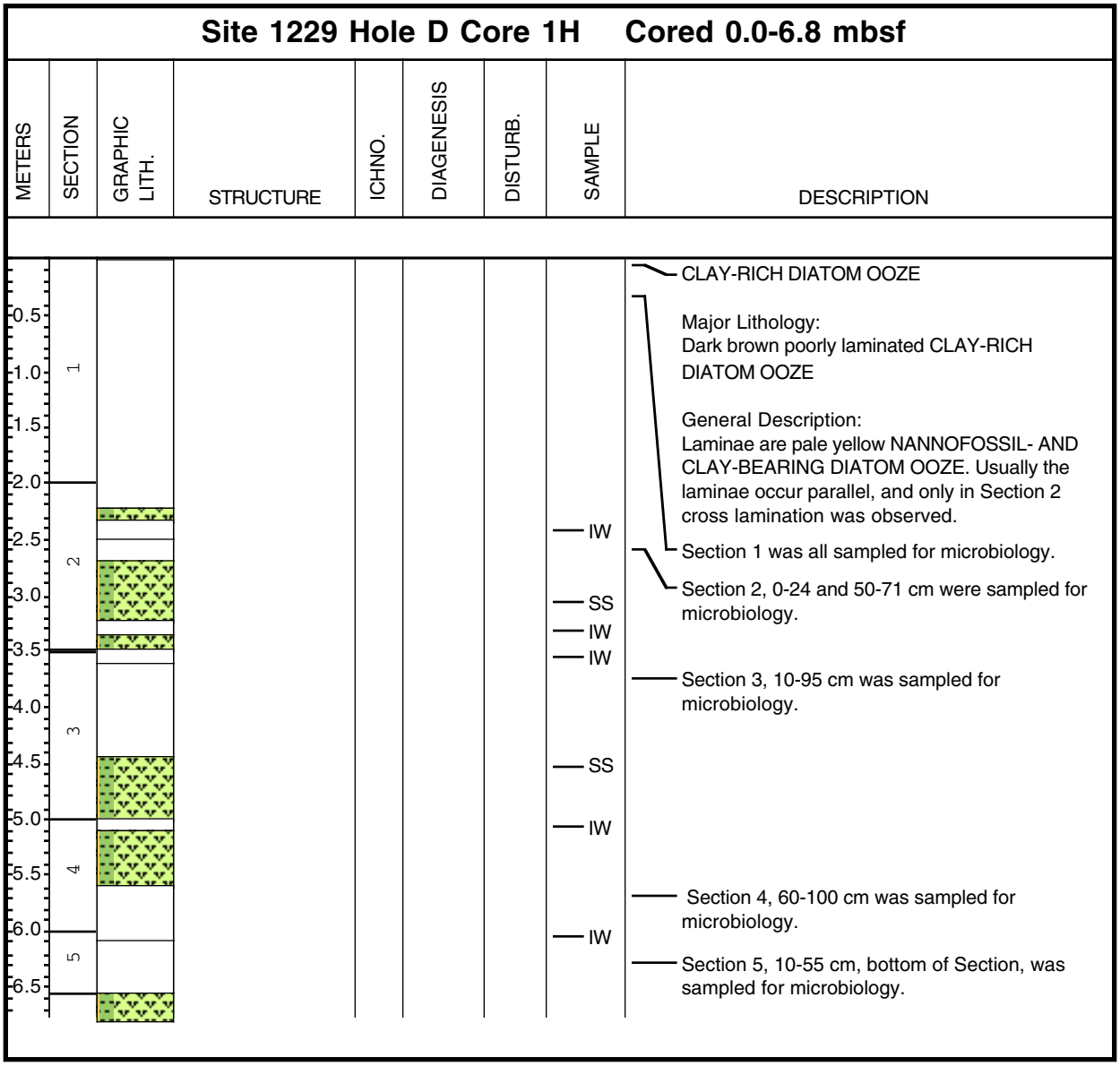


Hole 1229B - Cores from this hole were not split on board. They were shipped to the Gulf Coast Repository as complete sections for postcruise sampling.

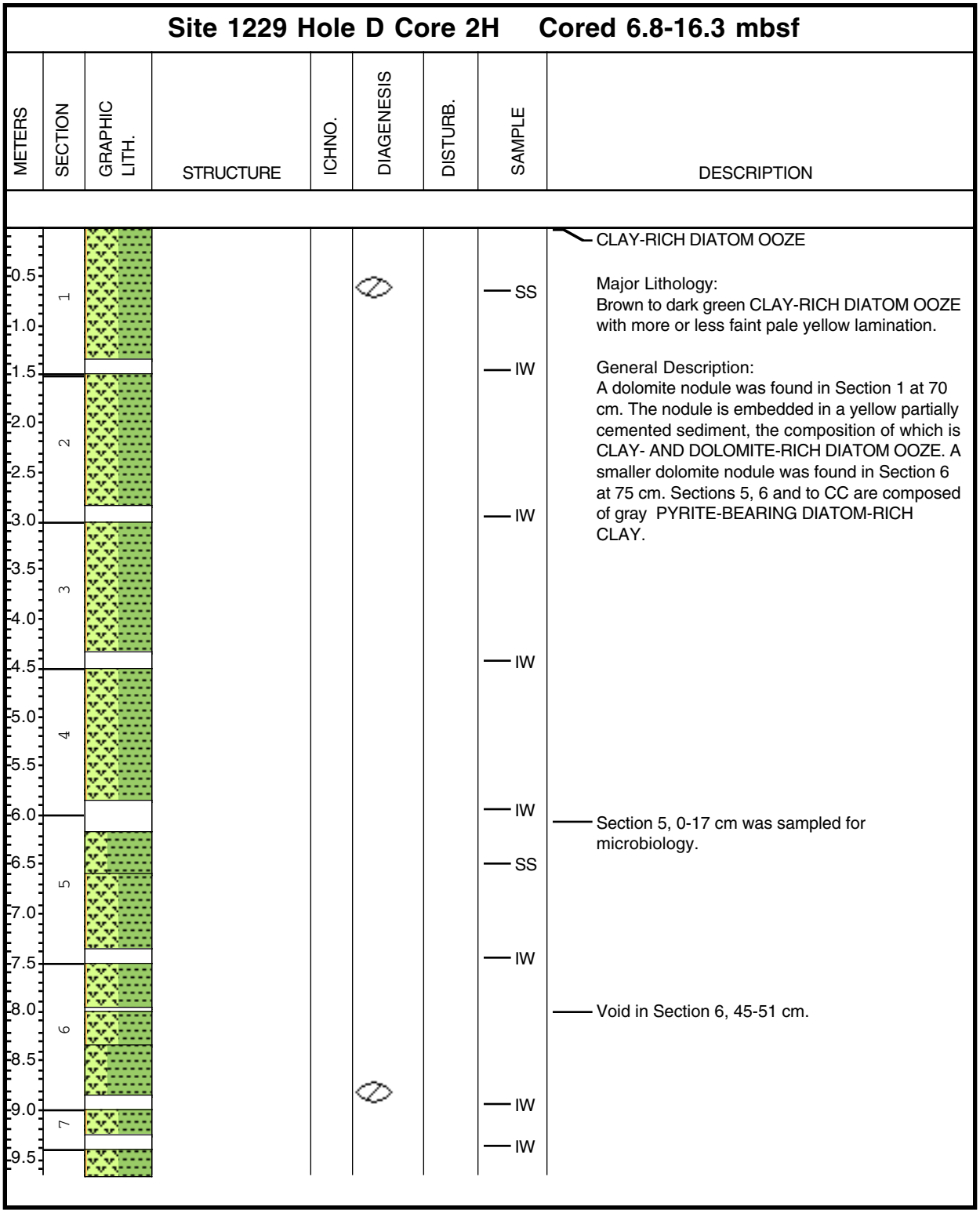
Core Photo


Site 1229 Hole C Core 1H Cored 0.0-8.8 mbsf
METERS
SECTION
GRAPHIC LITH.
STRUCTURE
ICHNO.
DIAGENESIS
DISTURB.
SAMPLE
DESCRIPTION
CLAY-RICH DIATOM OOZE
Major Lithology:
Dark brown laminated CLAY-RICH DIATOM OOZE
General Description:
The main lithology, dark brown laminated CLAY-RICH DIATOM OOZE, grades downsection into an olive green, laminated, silt-rich diatom clay with yellow laminae. Several gray, terrigenous material rich layers are in Sections 2 and 3. Same of these layers have a sharp basal contact. A carbonate nodule was observed in Section 3 at 76-77 cm. Fish scales were observed in the first three sections.
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
1
2
3
4
5
6

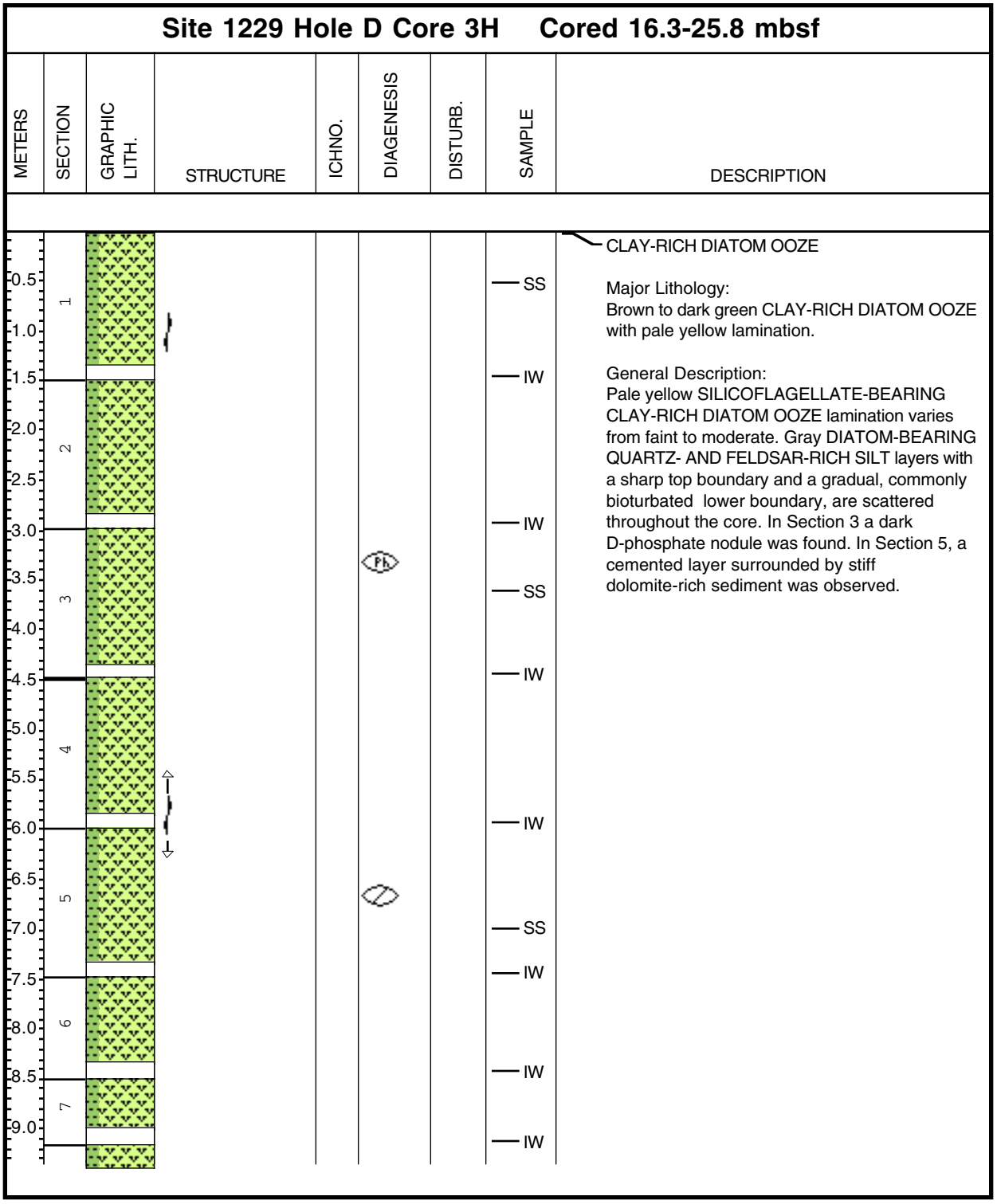
Core Photo


Site 1229 Hole D Core 1H Cored 0.0-6.8 mbsf
METERS
SECTION
GRAPHIC LITH.
STRUCTURE
ICHNO.
DIAGENESIS
DISTURB.
SAMPLE
DESCRIPTION
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
1
2
3
4
5
IW
SS
IW
IW
SS
IW
IW
CLAY-RICH DIATOM OOZE
Major Lithology:
Dark brown poorly laminated CLAY-RICH DIATOM OOZE
General Description:
Laminae are pale yellow NANNOFOSSIL- AND CLAY-BEARING DIATOM OOZE. Usually the laminae occur parallel, and only in Section 2 cross lamination was observed.
Section 1 was all sampled for microbiology.
Section 2, 0-24 and 50-71 cm were sampled for microbiology.
Section 3, 10-95 cm was sampled for microbiology.
Section 4, 60-100 cm was sampled for microbiology.
Section 5, 10-55 cm, bottom of Section, was sampled for microbiology.

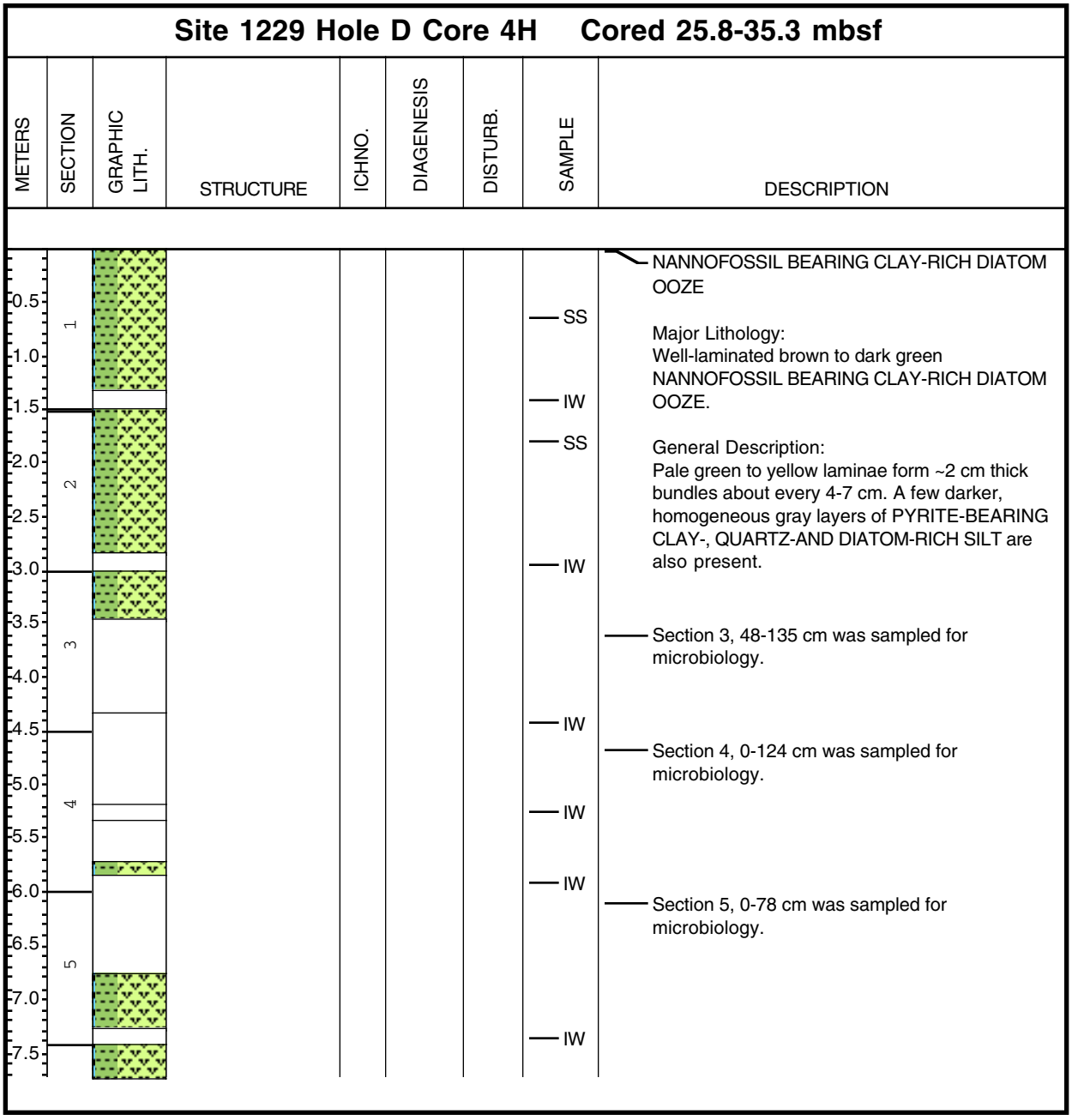
Core Photo


Site 1229 Hole D Core 2H Cored 6.8-16.3 mbsf
METERS
SECTION
GRAPHIC LITH.
STRUCTURE
ICHNO.
DIAGENESIS
DISTURB.
SAMPLE
DESCRIPTION
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
9.0
9.5
1
2
3
4
5
6
7
SS
IW
IW
IW
IW
SS
IW
IW
IW
CLAY-RICH DIATOM OOZE
Major Lithology:
Brown to dark green CLAY-RICH DIATOM OOZE with more or less faint pale yellow lamination.
General Description:
A dolomite nodule was found in Section 1 at 70 cm. The nodule is embedded in a yellow partially cemented sediment, the composition of which is CLAY- AND DOLOMITE-RICH DIATOM OOZE. A smaller dolomite nodule was found in Section 6 at 75 cm. Sections 5, 6 and to CC are composed of gray PYRITE-BEARING DIATOM-RICH CLAY.
Section 5, 0-17 cm was sampled for microbiology.
Void in Section 6, 45-51 cm.

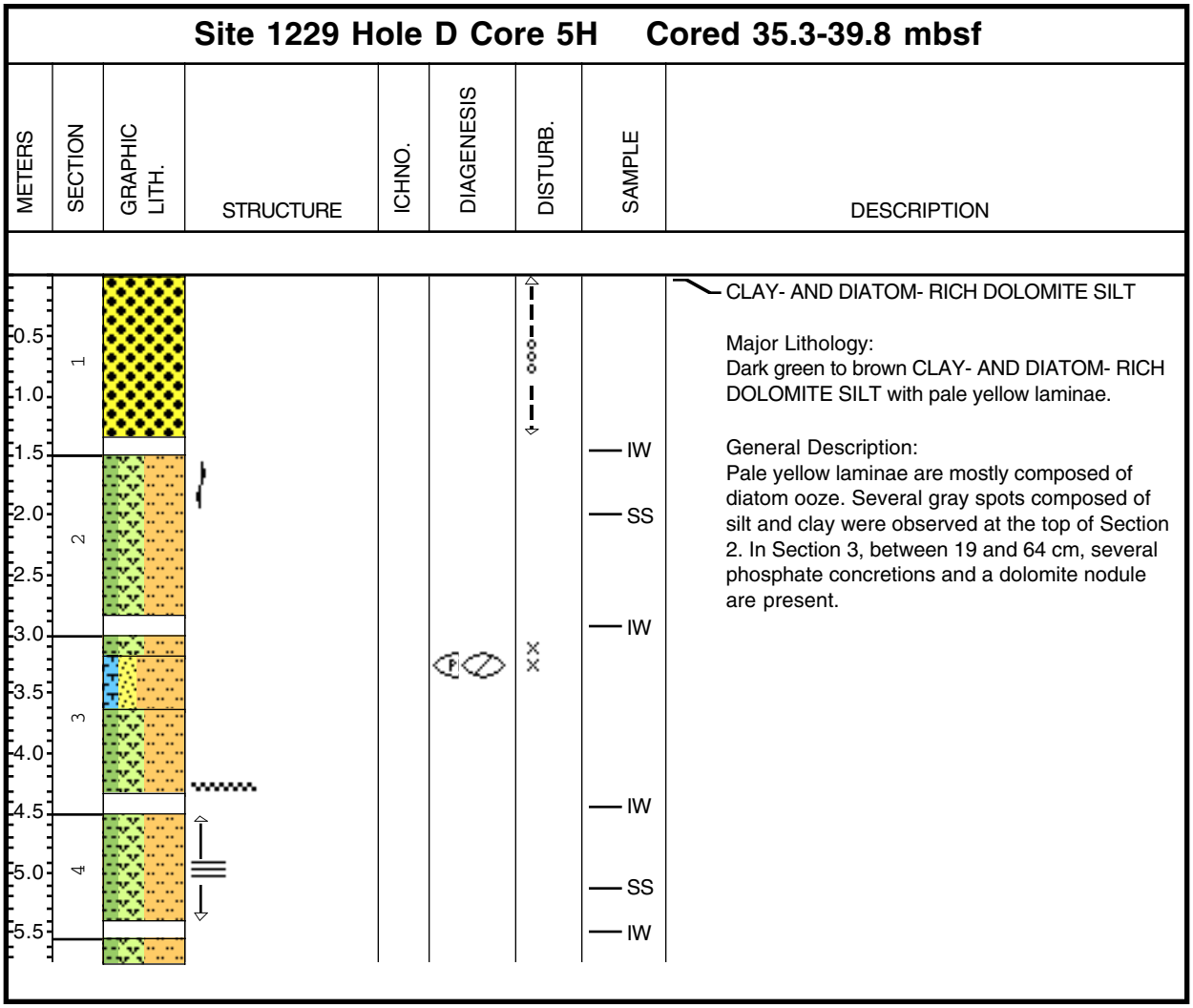
Core Photo


Site 1229 Hole D Core 3H Cored 16.3-25.8 mbsf
METERS
SECTION
GRAPHIC LITH.
STRUCTURE
ICHNO.
DIAGENESIS
DISTURB.
SAMPLE
DESCRIPTION
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
9.0
1
2
3
4
5
6
7
Ph
SS
IW
IW
SS
IW
IW
SS
IW
IW
IW
CLAY-RICH DIATOM OOZE
Major Lithology:
Brown to dark green CLAY-RICH DIATOM OOZE with pale yellow lamination.
General Description:
Pale yellow SILICOFLAGELLATE-BEARING CLAY-RICH DIATOM OOZE lamination varies from faint to moderate. Gray DIATOM-BEARING QUARTZ- AND FELDSAR-RICH SILT layers with a sharp top boundary and a gradual, commonly bioturbated lower boundary, are scattered throughout the core. In Section 3 a dark D-phosphate nodule was found. In Section 5, a cemented layer surrounded by stiff dolomite-rich sediment was observed.

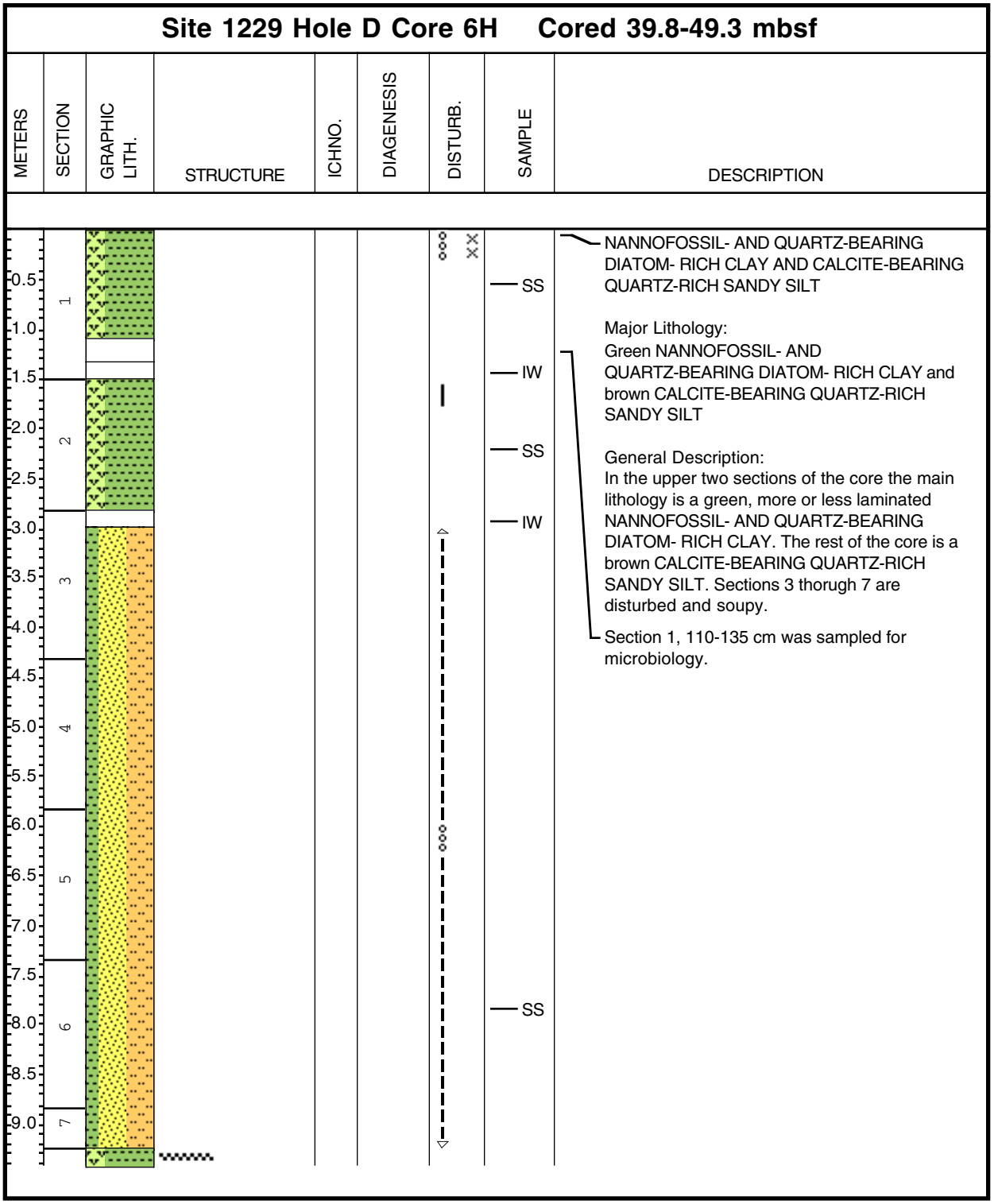
Core Photo


Site 1229 Hole D Core 4H Cored 25.8-35.3 mbsf
METERS
SECTION
GRAPHIC LITH.
STRUCTURE
ICHNO.
DIAGENESIS
DISTURB.
SAMPLE
DESCRIPTION
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
1
2
3
4
5
SS
IW
SS
IW
IW
IW
IW
IW
NANNOFOSSIL BEARING CLAY-RICH DIATOM OOZE
Major Lithology:
Well-laminated brown to dark green NANNOFOSSIL BEARING CLAY-RICH DIATOM OOZE.
General Description:
Pale green to yellow laminae form ~2 cm thick bundles about every 4-7 cm. A few darker, homogeneous gray layers of PYRITE-BEARING CLAY-, QUARTZ-AND DIATOM-RICH SILT are also present.
Section 3, 48-135 cm was sampled for microbiology.
Section 4, 0-124 cm was sampled for microbiology.
Section 5, 0-78 cm was sampled for microbiology.

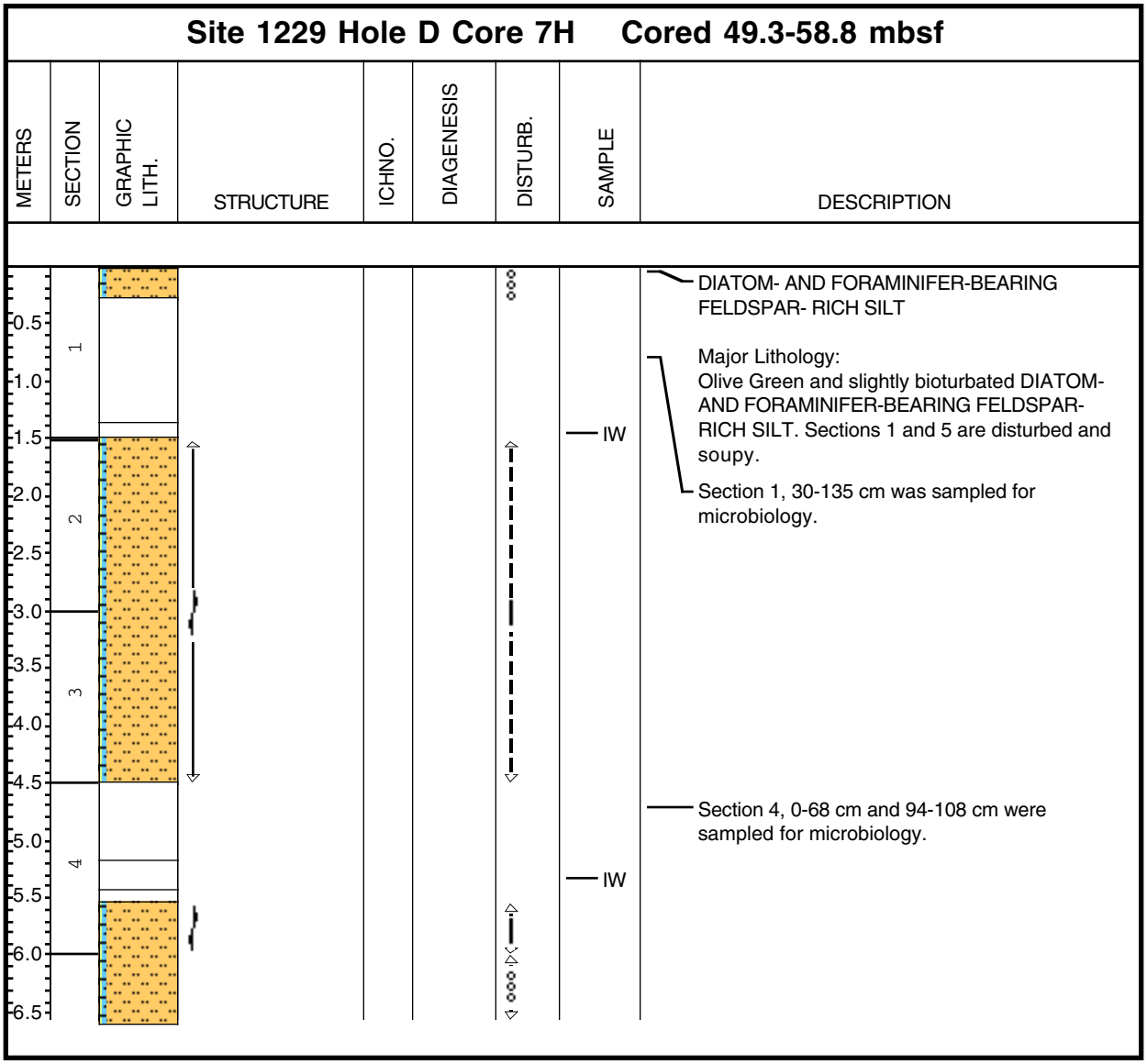
Core Photo


Site 1229 Hole D Core 5H Cored 35.3-39.8 mbsf
METERS
SECTION
GRAPHIC LITH.
STRUCTURE
ICHNO.
DIAGENESIS
DISTURB.
SAMPLE
DESCRIPTION
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
1
2
3
4
P
IW
SS
IW
IW
SS
IW
CLAY- AND DIATOM- RICH DOLOMITE SILT
Major Lithology:
Dark green to brown CLAY- AND DIATOM- RICH DOLOMITE SILT with pale yellow laminae.
General Description:
Pale yellow laminae are mostly composed of diatom ooze. Several gray spots composed of silt and clay were observed at the top of Section 2. In Section 3, between 19 and 64 cm, several phosphate concretions and a dolomite nodule are present.

Core Photo

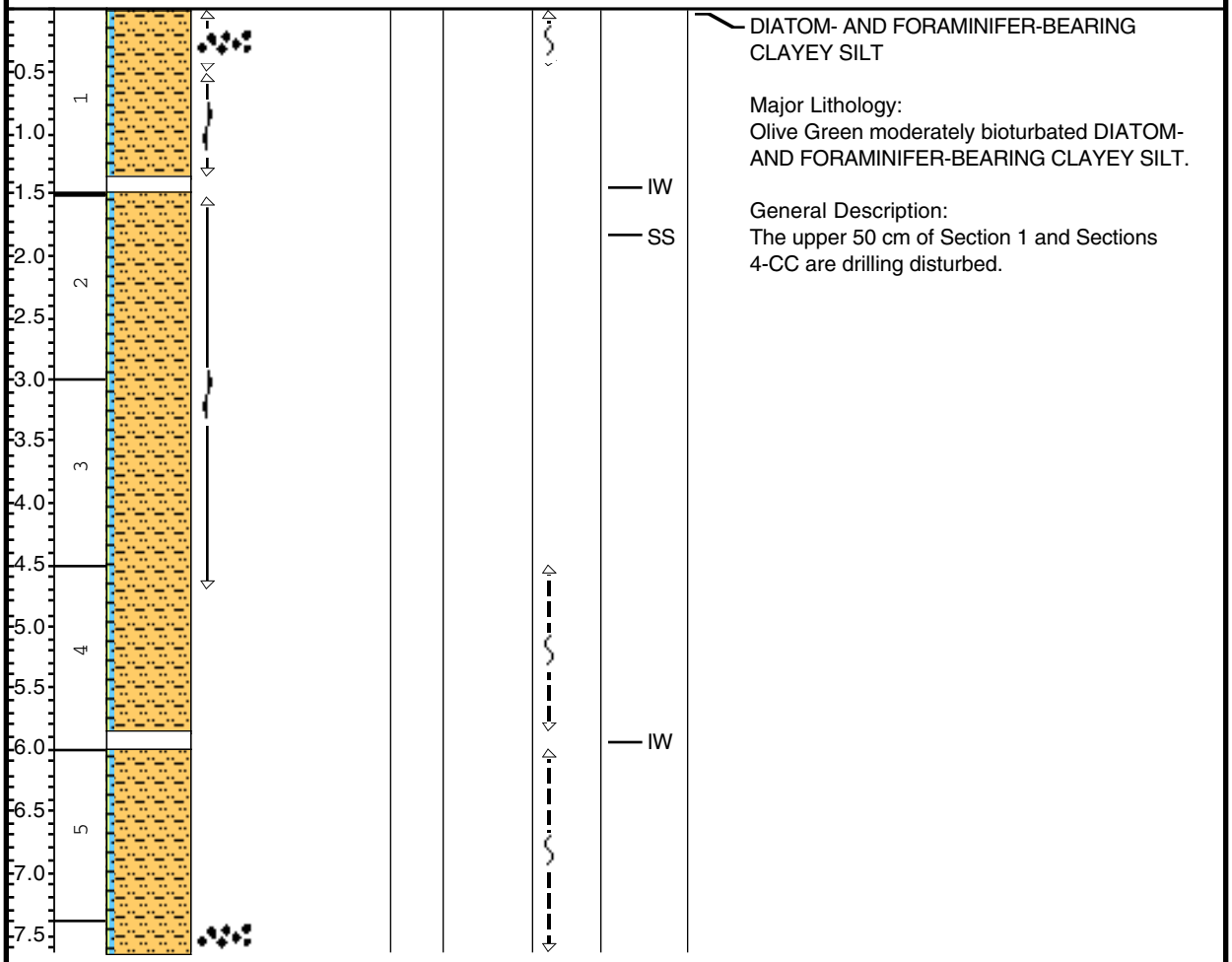

Site 1229 Hole D Core 6H Cored 39.8-49.3 mbsf
METERS
SECTION
GRAPHIC LITH.
STRUCTURE
ICHNO.
DIAGENESIS
DISTURB.
SAMPLE
DESCRIPTION
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
9.0
1
2
3
4
5
6
7
SS
IW
SS
IW
SS
NANNOFOSSIL- AND QUARTZ-BEARING DIATOM- RICH CLAY AND CALCITE-BEARING QUARTZ-RICH SANDY SILT
Major Lithology:
Green NANNOFOSSIL- AND QUARTZ-BEARING DIATOM- RICH CLAY and brown CALCITE-BEARING QUARTZ-RICH SANDY SILT
General Description:
In the upper two sections of the core the main lithology is a green, more or less laminated NANNOFOSSIL- AND QUARTZ-BEARING DIATOM- RICH CLAY. The rest of the core is a brown CALCITE-BEARING QUARTZ-RICH SANDY SILT. Sections 3 thorugh 7 are disturbed and soupy.
Section 1, 110-135 cm was sampled for microbiology.

Core Photo

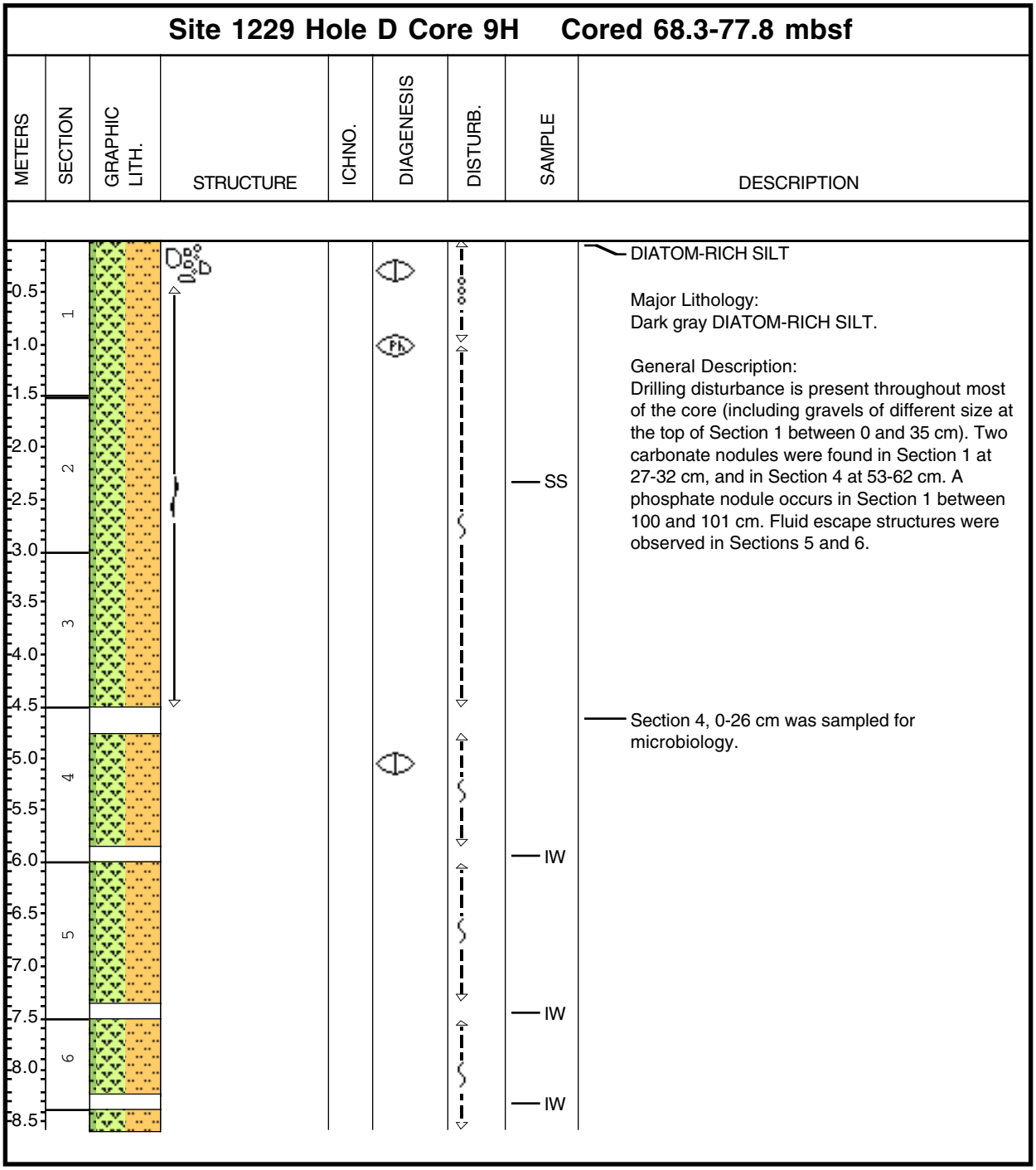

Site 1229 Hole D Core 7H Cored 49.3-58.8 mbsf
METERS
SECTION
GRAPHIC LITH.
STRUCTURE
ICHNO.
DIAGENESIS
DISTURB.
SAMPLE
DESCRIPTION
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
1
2
3
4
IW
IW
DIATOM- AND FORAMINIFER-BEARING FELDSPAR- RICH SILT
Major Lithology:
Olive Green and slightly bioturbated DIATOM- AND FORAMINIFER-BEARING FELDSPAR-RICH SILT. Sections 1 and 5 are disturbed and soupy.
Section 1, 30-135 cm was sampled for microbiology.
Section 4, 0-68 cm and 94-108 cm were sampled for microbiology.

Core Photo

Site 1229 Hole D Core 8H Cored 58.8-68.3 mbsf



Core Photo


Site 1229 Hole D Core 9H Cored 68.3-77.8 mbsf
METERS
SECTION
GRAPHIC LITH.
STRUCTURE
ICHNO.
DIAGENESIS
DISTURB.
SAMPLE
DESCRIPTION
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
1
2
3
4
5
6
Ph
SS
IW
IW
IW
DIATOM-RICH SILT
Major Lithology:
Dark gray DIATOM-RICH SILT.
General Description:
Drilling disturbance is present throughout most of the core (including gravels of different size at the top of Section 1 between 0 and 35 cm). Two carbonate nodules were found in Section 1 at 27-32 cm, and in Section 4 at 53-62 cm. A phosphate nodule occurs in Section 1 between 100 and 101 cm. Fluid escape structures were observed in Sections 5 and 6.
Section 4, 0-26 cm was sampled for microbiology.

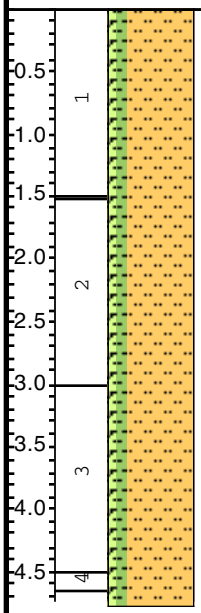
Core Photo

Site 1229 Hole D Core 10P Cored 77.8-79.8 mbsf

METERS	SECTION	GRAPHIC LITH.	STRUCTURE	ICHNO.	DIAGENESIS	DISTURB.	SAMPLE	DESCRIPTION
0.5 1.0 1.5 2.0							SS	FELDSPAR-, QUARTZ- and DIATOM-RICH CLAYEY SILT Major Lithology: Brown FELDSPAR-, QUARTZ- and DIATOM-RICH CLAYEY SILT General Description: PCS coring was used on this core. Most of the core is disturbed by the coring/extraction process. A clay-rich gray layer is between 35 and 42 cm in Section 1. Shell debris is between 46 and 47 cm in Section 1.

Core Photo

Site 1229 Hole D Core 11H Cored 79.8-84.3 mbsf



STRUCTURE | ICHNO. | DIAGENESIS | DISTURB. | SAMPLE

DESCRIPTION

DIATOM-BEARING CLAYEY SILT

Major Lithology:
Green to brown DIATOM-BEARING CLAYEY SILT

Minor Lithology:
Gray FLEDSPAR-RICH SILT

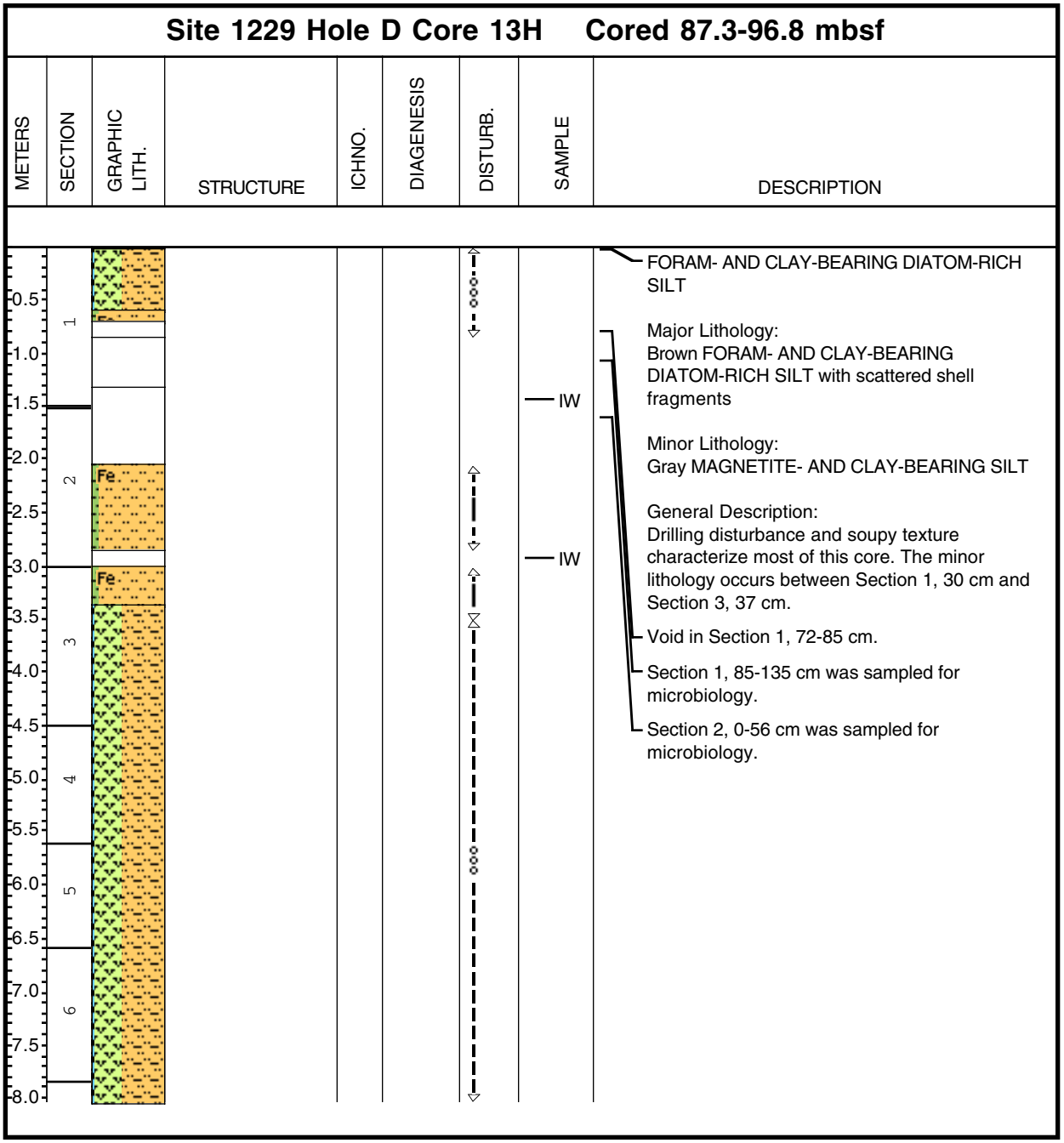
General Description:
Drilling disturbance and soupy texture characterize most of this core. From Sections 1 thorugh 2 the main lithology is green to brown DIATOM-BEARING CLAYEY SILT. Two gray, feldspar-rich silt layers are in in Sections 2 (133-136 cm) and 3 (15-26 cm). Starting from the top of Section 3, the main lithology is gray FELDSPAR-RICH SILT. At the boundary between the two lithologies is a 30-cm thick interval of slumped sediment.

Core Photo

Site 1229 Hole D Core 12H Cored 84.3-87.3 mbsf

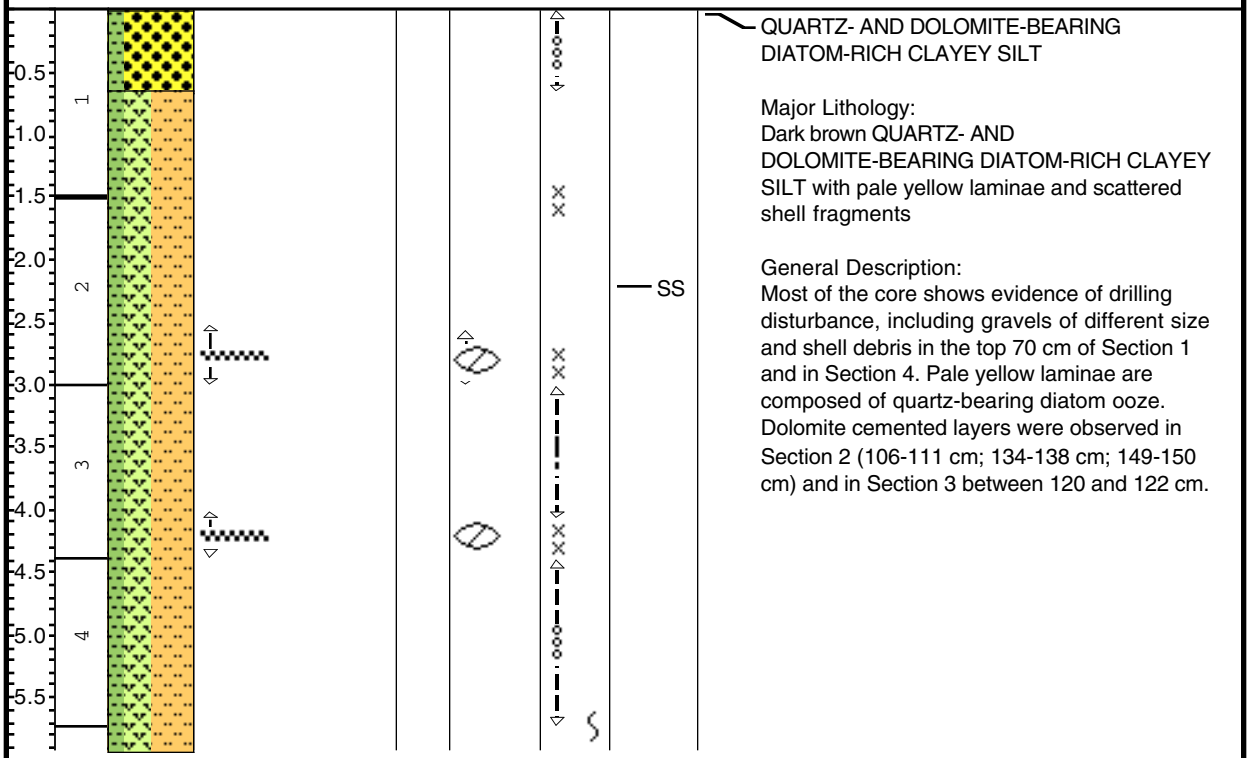
METERS	SECTION	GRAPHIC LITH.	STRUCTURE	ICHNO.	DIAGENESIS	DISTURB.	SAMPLE	DESCRIPTION
0.5 1.0 1.5 2.0 2.5 3.0	1 2 3						IW IW	DIATOM-BEARING CLAYEY SILT Major Lithology: Dark green to DIATOM-BEARING CLAYEY SILT General Description: Drilling disturbance is in both Section 1 (including gravels of different size) and in the core catcher. Section 2, 0-135 cm was sampled for microbiology. Section 3, 0-95 cm was sampled for microbiology.

Core Photo

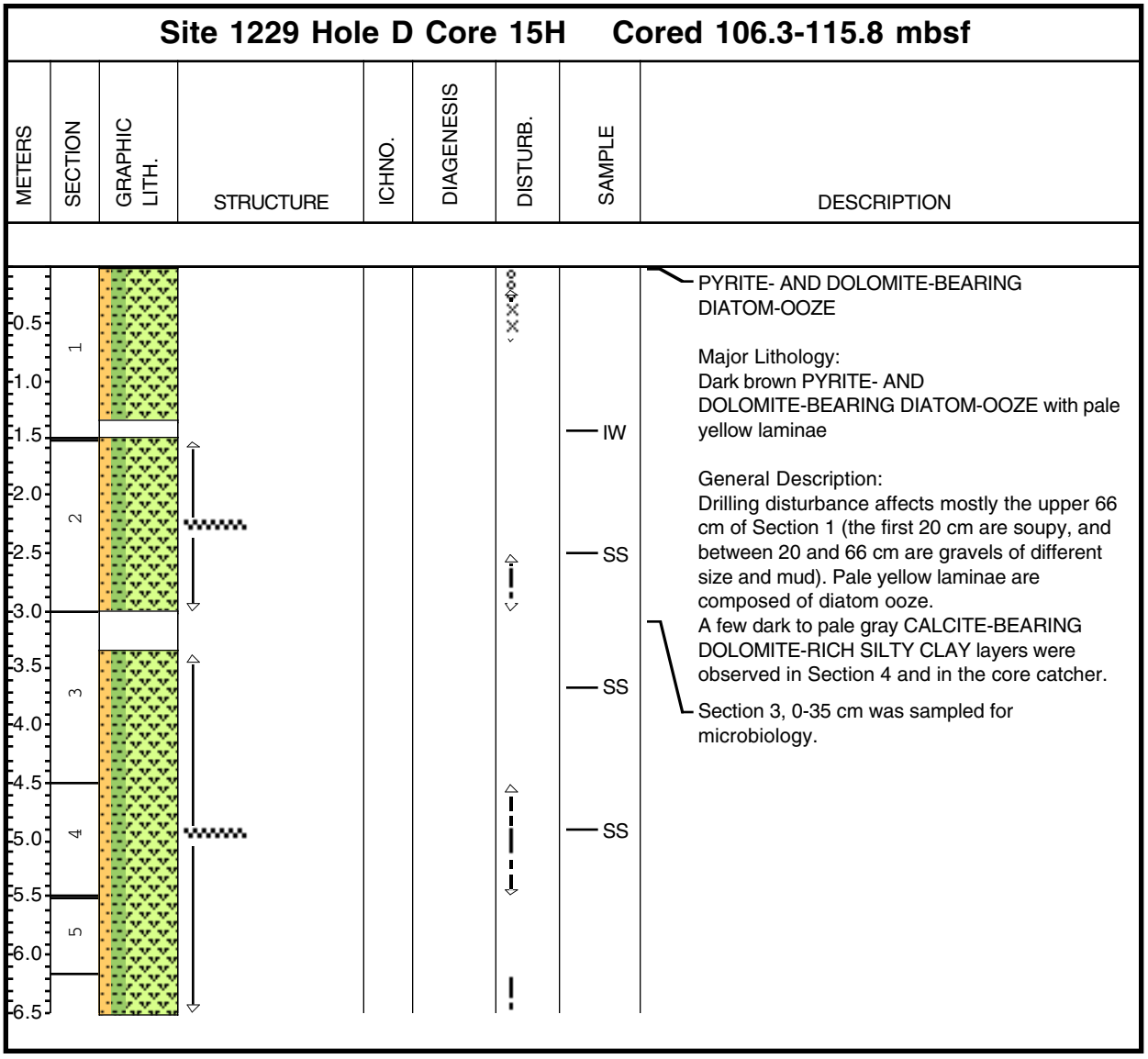

Site 1229 Hole D Core 13H Cored 87.3-96.8 mbsf
METERS
SECTION
GRAPHIC LITH.
STRUCTURE
ICHNO.
DIAGENESIS
DISTURB.
SAMPLE
DESCRIPTION
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
1
2
3
4
5
6
Fe
Fe
IW
IW
FORAM- AND CLAY-BEARING DIATOM-RICH SILT
Major Lithology:
Brown FORAM- AND CLAY-BEARING DIATOM-RICH SILT with scattered shell fragments
Minor Lithology:
Gray MAGNETITE- AND CLAY-BEARING SILT
General Description:
Drilling disturbance and soupy texture characterize most of this core. The minor lithology occurs between Section 1, 30 cm and Section 3, 37 cm.
Void in Section 1, 72-85 cm.
Section 1, 85-135 cm was sampled for microbiology.
Section 2, 0-56 cm was sampled for microbiology.

Core Photo

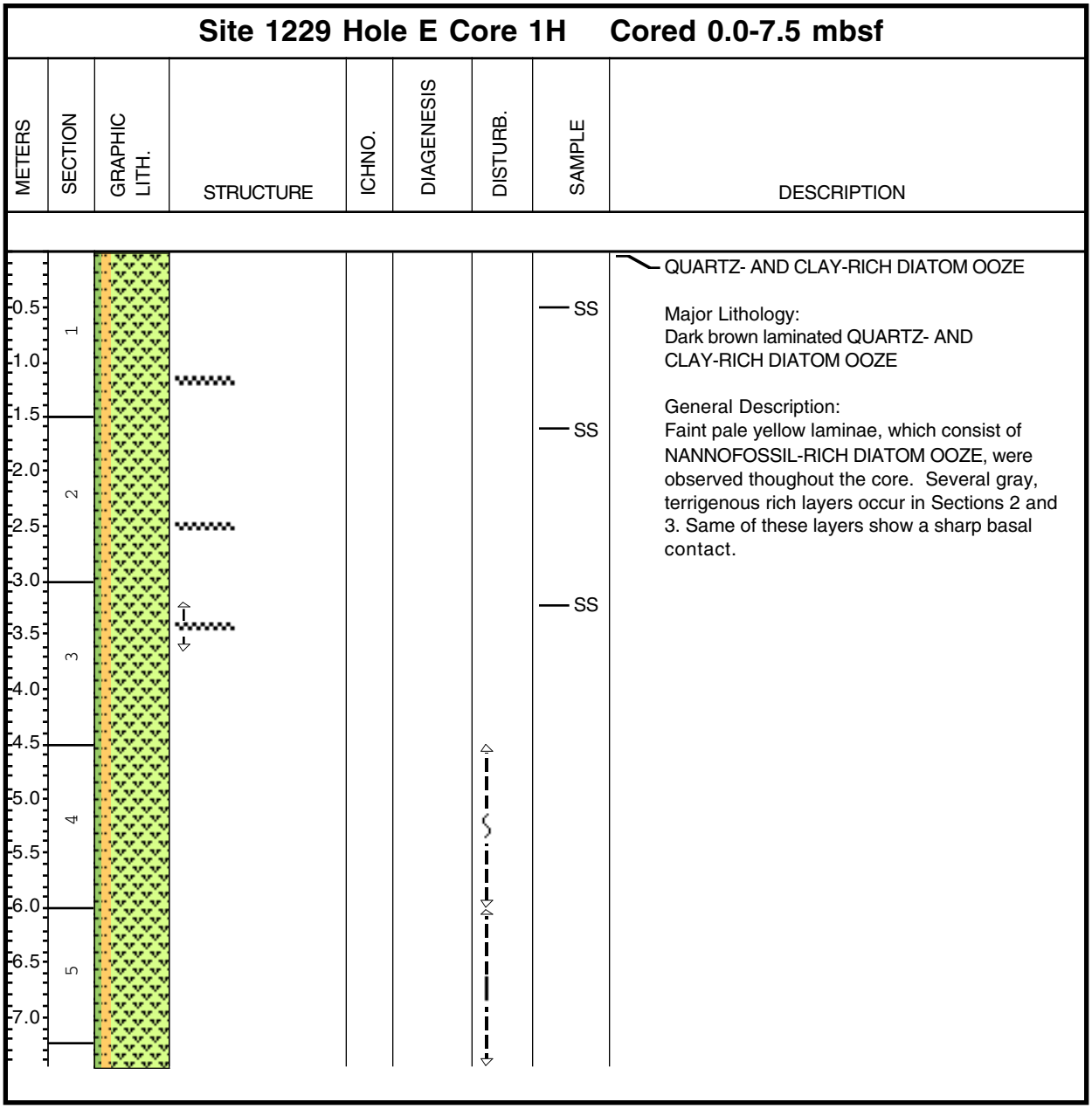
Site 1229 Hole D Core 14H Cored 96.8-106.3 mbsf



Core Photo


Site 1229 Hole D Core 15H Cored 106.3-115.8 mbsf
METERS
SECTION
GRAPHIC LITH.
STRUCTURE
ICHNO.
DIAGENESIS
DISTURB.
SAMPLE
DESCRIPTION
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
1
2
3
4
5
IW
SS
SS
SS
PYRITE- AND DOLOMITE-BEARING DIATOM-OOZE
Major Lithology:
Dark brown PYRITE- AND DOLOMITE-BEARING DIATOM-OOZE with pale yellow laminae
General Description:
Drilling disturbance affects mostly the upper 66 cm of Section 1 (the first 20 cm are soupy, and between 20 and 66 cm are gravels of different size and mud). Pale yellow laminae are composed of diatom ooze.
A few dark to pale gray CALCITE-BEARING DOLOMITE-RICH SILTY CLAY layers were observed in Section 4 and in the core catcher.
Section 3, 0-35 cm was sampled for microbiology.

Core Photo



1229E-2H through 1229E-13 H - Cores from were not split on board. They were shipped to the Gulf Coast Repository as complete sections for postcruise sampling.

Sample						Texture			Mineral											Biogenic					Rock				
Core	CT	Sct	Top (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Calcite (30)	Carbonate (35)	Clay Mineral (47)	Dolomite (62)	Feldspar (71)	Glauconite (82)	Hornblende (91)	Opaques (140)	Plagioclase (159)	Pyrite (169)	Quartz (172)	Diatoms (58)	Foraminifers (78)	Nannofossils (132)	Radiolarians (173)	Silicoflagellates (189)	Clay Size Particles (255)	Lithoclast (107)	Silt (191)	Volcanic Glass Shard (246)	Comments
Hole A																													
1	H	1	70	0.70	D		65	35								4				59		1		1	35				Clay-rich Diatom Ooze
1	H	2	70	2.20	M		95	5										5	30	5					5		54	1	Diatom- and Clay-bearing Silt
1	H	3	10	3.10	D		60	40												50					40		10	*	Silt-rich Diatom Clay
2	H	1	38.5	5.29	M	10	60	30												30	1	38		1	30				Clay-rich Diatom and Nannofossil Ooze
2	H	1	106	5.96	D		99	1		3							86			5					1	5			Diatom-bearing Plagioclase Silt
2	H	1	107	5.97	D		90	10									3			25					10		62		Diatom- and Clay-rich Silt
2	H	4	130	10.70	D		95	5					*						*	10				1	5		84	*	Diatom-rich Silt
2	H	6	46	12.86	D		98	2								10	50		40										Pyrite-rich Quartz and Feldspar Silt
3	H	1	56	14.96	M		100					95				2	1		2										Dolomite Silt
3	H	3	48	17.88	M		50	50										2		48					25		25		Diatom Clay
3	H	4	100	19.90	D								55					5	10	10					20				Clay- and Diatom-rich Quartz and Feldspar Silt
4	H	6	108	32.48	D														4	9					78		9		Diatom- and Silt-bearing Clay
4	H	6	110	32.50	M											5				5	1	89							Diatom-bearing Nannofossil Ooze
5	H	3	83	37.23	M				10		5	80								5									Clay- and Diatom and Calcite-bearing Dolomite
5	H	4	66	38.56	M								25			5			25	8					17			20	Diatom-bearing volcanic glass- and Feldspar- and Quartz-rich Clay
6	H	1	95	40.85	D	5	45	50	4			30	5						4	35					22				Feldspar-bearing Dolomite- and Diatom-rich Silty Sand
8	H	1	80	59.70	D							1	3			4			3	50	5				34				Foraminifer-bearing Clay-rich Diatom Ooze
8	H	4	70	64.10	D				*			3	30			4			20	8					20		15		Diatom-bearing Quartz- and Feldspar-rich Clayey Silt
8	H	6	70	67.10	D		40	60	5				20					15	15	25	*				20				Calcite-bearing Pyrite- and Diatom-rich Silty Clay
9	H	2	112	71.02	M		50	50		*			5			10			20	5						10	50		Diatom-bearing Quartz-rich Clay
9	H	3	10	71.50	D		70	30								10			40	5					45				Diatom-bearing Quartz- and Silt-rich Clay
10	H	2	125	82.15	M		84	16				84					1			5							10		Dolomite Silt with few Lithoclasts
10	H	5	40	85.80	M		40	60					15			10			15						50	10			Quartz- and Feldspar-rich Silty Clay
11	H	3	13	92.03	D		40	60								20									45		30	5	Volcanic glass-bearing Quartz- and Feldspar- and Silt-rich Clay
11	H	5	73	95.63	M		80	20								2	10		10							10		68	Plagioclase- and Quartz-rich Volcanic glass
11	H	6	124	97.64	D		41	59									1	5		25					54		15		Diatom- and Silt-rich Clay
12	H	4	32	103.22	M		98	2								80				3							17		Organic Debris
13	H	3	102	111.92	D						5		5			4		*	10	64	*	2			10				Feldspar-bearing Quartz- and Clay-rich Diatom Ooze
13	H	4	50	112.90	D							3	5			3			4	75	*	*		*	10				Feldspar-bearing Clay-rich Diatom Ooze
14	H	2	80	119.70	M				*			*				*				90			10						Radiolarian-rich Diatom Ooze
14	H	2	142	120.32	D						4		5	1				3	*	71		*	1		15				Feldspar-bearing Clay-rich Diatom Ooze
14	H	4	137	123.27	M				*			5				5		20		28			2	*	40				Dolomite-bearing Pyrite- and Diatom-rich Clay
19	H	1	60	165.50	D	60	30	10							5		20	10	60	5									Hornblende-bearing Pyrite- and Feldspar-rich Quartz Sand
Hole D																													
1	H	2	105	3.05	M						*									89		5		1	5				Nannofossil- and Clay-bearing Diatom Ooze
1	H	3	100	4.50	D						20		*					*	*	74		1		1			4		Clay-rich Diatom Ooze
2	H	1	65	7.45	M				*			4						5	2	39					45		5		Pyrite-bearing Diatom-rich Clay
2	H	5	48	13.28	M				*		21	35	*				4			40									Clay- and Dolomite-rich Diatom Ooze
3	H	1	50	16.80	D						*									78			*	2	20				Clay-rich Diatom Ooze
3	H	5	98	23.28	M				*			*	*						*	82				8	10				Silicoflagellate-bearing Clay-rich Diatom Ooz
3	H	6	61	24.41	M							2	10					5	30	8					14		30	1	Diatom-bearing Quartz- and Feldspar-rich Silte
4	H	1	63	26.43	D			*	*			*						*		65	*	5			30				Nannofossil-bearing Clay-rich Diatom Ooze
4	H	2	30	27.60	M				*		10		*					5	10	30		4		1			40		Pyrite-bearing Clay- and Quartz- and Diatom-rich Silt
5	H	2	49	37.29	M		40	60	*			10					*	5	20	10					40		15		Pyrite-bearing Quartz- and Dolomite- and Diatom-rich Clay
5	H	4	60	40.40	D		60	40	*		15	40						*	4	20		*	*		21				Clay- and Diatom-rich Dolomite Silt
6	H	1	53	40.33	D				*			10							5	20	*	5		*	60				Nannofossil- and Quartz-bearing Dolomite- and Diatom-rich Clay

Sample						Texture			Mineral											Biogenic					Rock				
Core	CT	Sct	Top (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Calcite (30)	Carbonate (35)	Clay Mineral (47)	Dolomite (62)	Feldspar (71)	Glauconite (82)	Hornblende (91)	Opaques (140)	Plagioclase (159)	Pyrite (169)	Quartz (172)	Diatoms (58)	Foraminifers (78)	Nannofossils (132)	Radiolarians (173)	Silicoflagellates (189)	Clay Size Particles (255)	Lithoclast (107)	Silt (191)	Volcanic Glass Shard (246)	Comments
Hole D (continued)																													
6	H	2	70	42.00	D							5						4	5	20		*			66				Quartz- and Dolomite-bearing Diatom-rich Clay
6	H	6	50	47.63	D	35	40	25	5			2				8	*		20			*			20		45		Calcite-bearing Quartz-rich Sandy Silt
10	P	1	26	78.06	D		70	30			*	*	10			*			10	30		*	*		15		35		Feldspar- and Quartz- and Diatom-rich Clayey Silt
14	H	2	70	99.00	D							5						4	8	30		1		1			51		Quartz- and Dolomite-bearing Diatom-rich Clayey Silt
15	H	2	99	108.79	M													*	4	94		2							Diatom Ooze
15	H	3	65	109.95	D						*	5	*					5	4	83		3		*					Pyrite- and Dolomite-bearing Diatom Ooze
15	H	4	40	111.20	M		15	85	5			10						8	*	1					71		5		Calcite-bearing Dolomite-rich Silty Clay