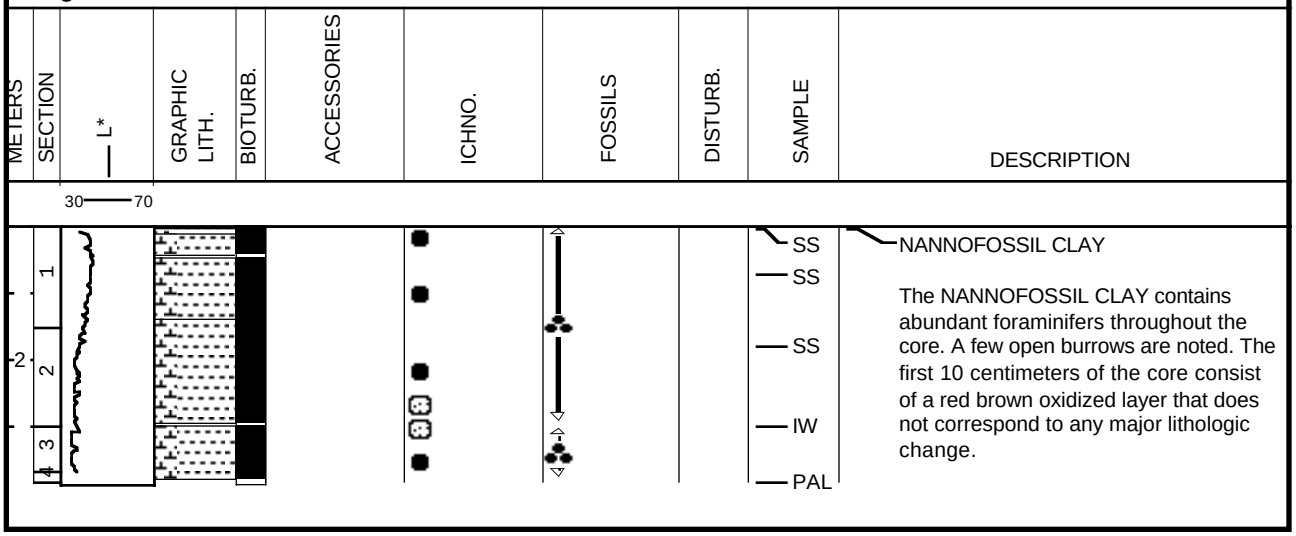
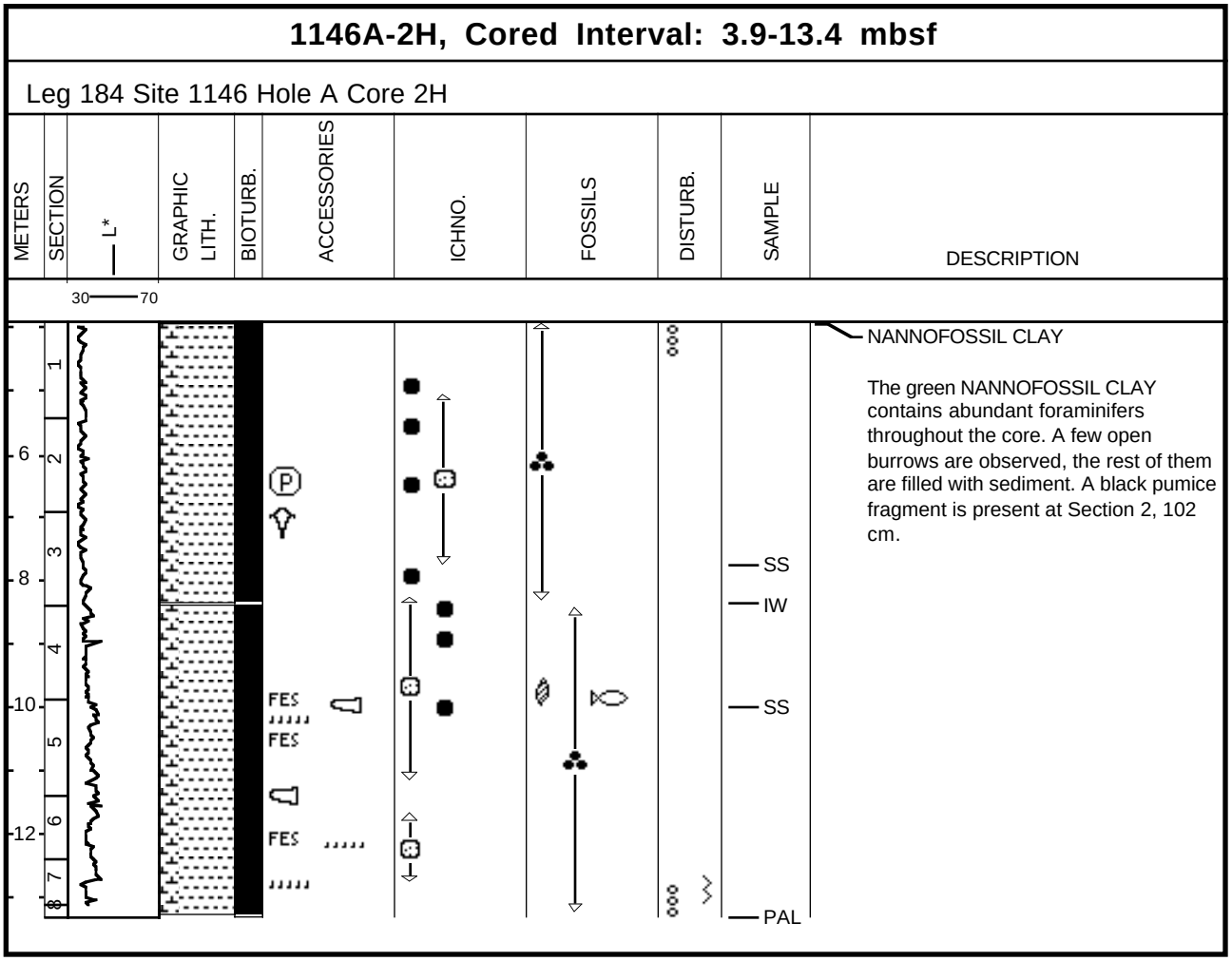
Core Photo

1146A-1H, Cored Interval: 0.0-3.9 mbsf

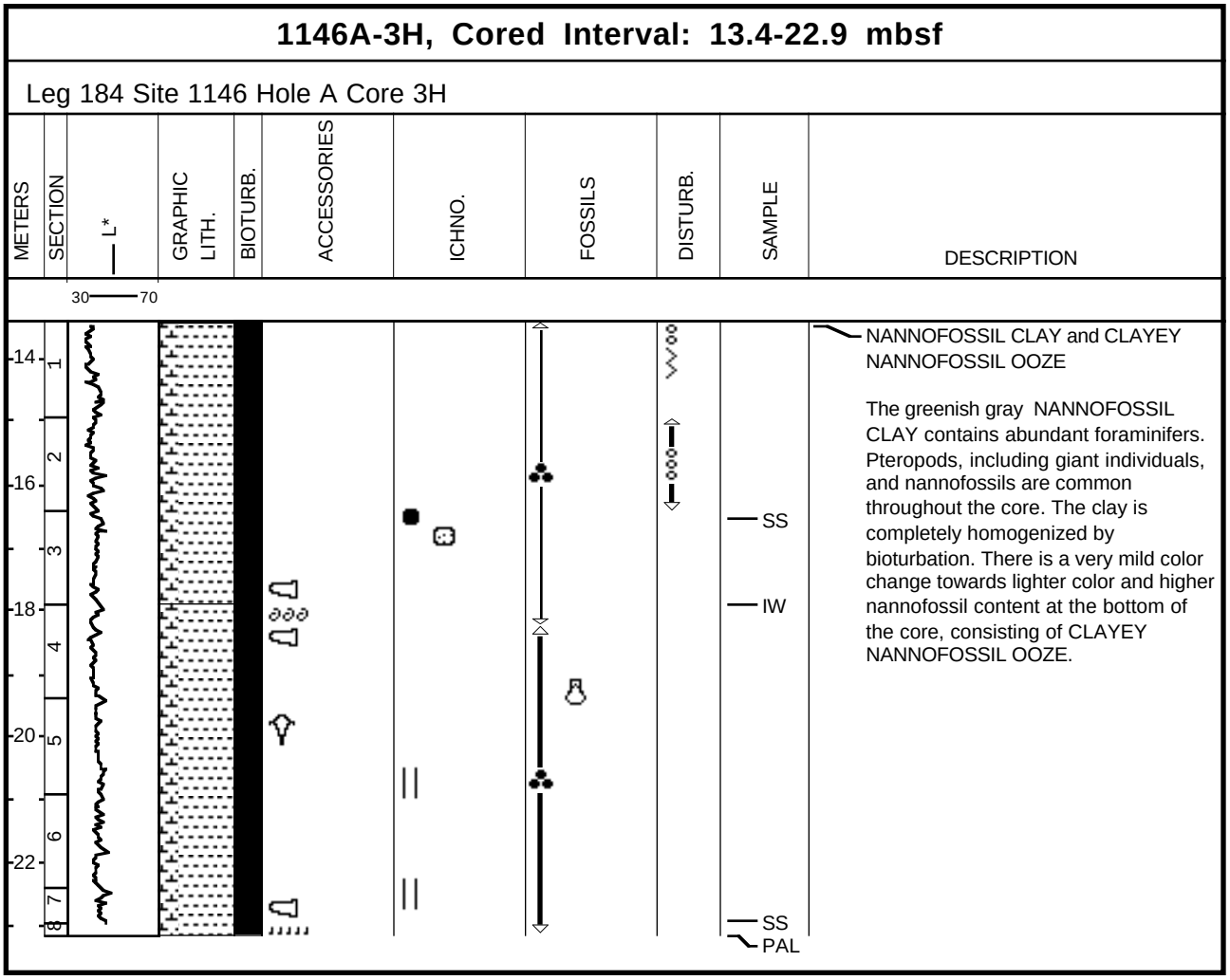
Leg 184 Site 1146 Hole A Core 1H



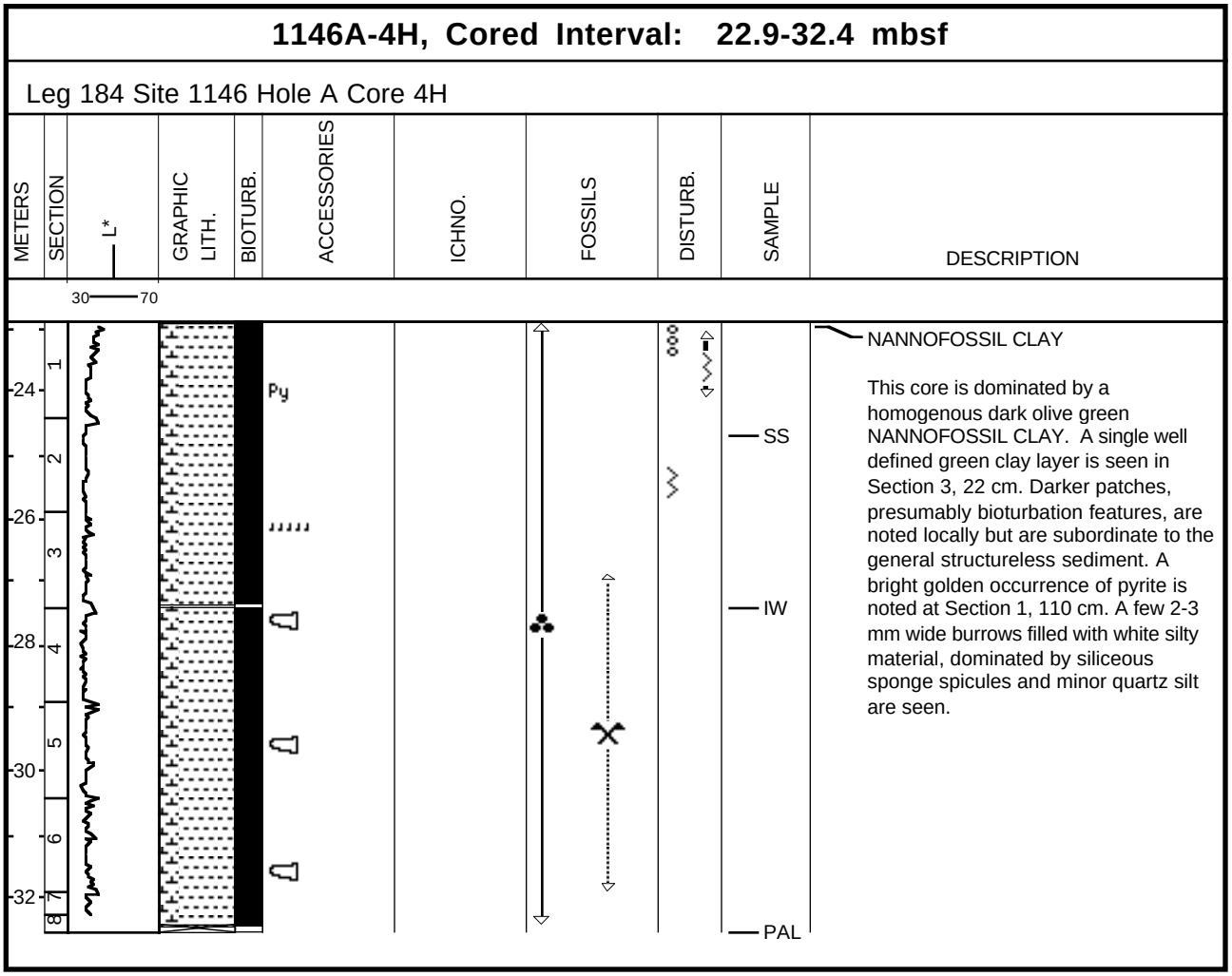
Core Photo


1146A-2H, Cored Interval: 3.9-13.4 mbsf
Leg 184 Site 1146 Hole A Core 2H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
6
8
10
12
1
2
3
4
5
6
7
P
FES
FES
FES
SS
IW
SS
PAL
NANNOFOSSIL CLAY
The green NANNOFOSSIL CLAY contains abundant foraminifers throughout the core. A few open burrows are observed, the rest of them are filled with sediment. A black pumice fragment is present at Section 2, 102 cm.

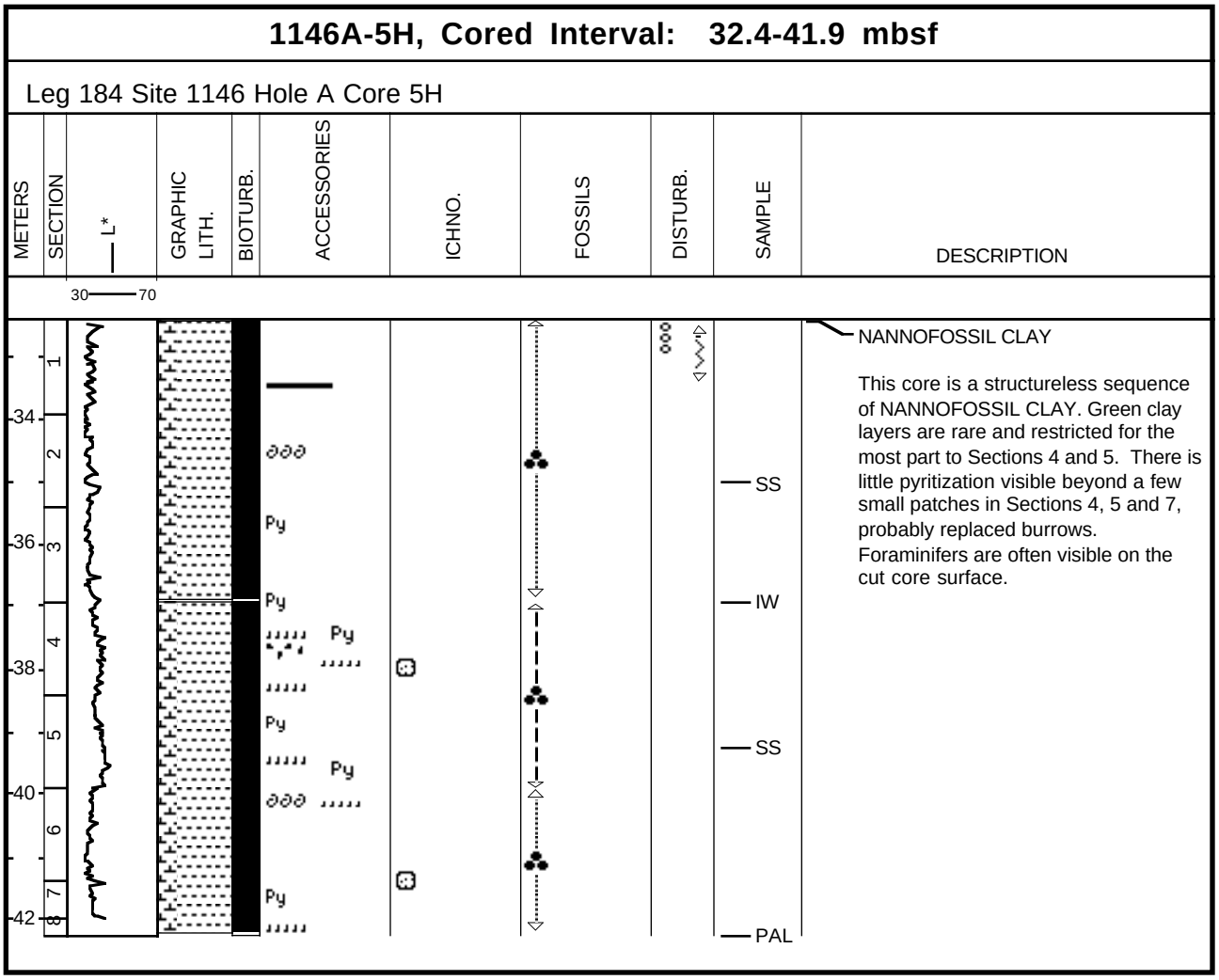
Core Photo


1146A-3H, Cored Interval: 13.4-22.9 mbsf
Leg 184 Site 1146 Hole A Core 3H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
14
16
18
20
22
1
2
3
4
5
6
7
SS
IW
SS
PAL
NANNOFOSSIL CLAY and CLAYEY NANNOFOSSIL OOZE
The greenish gray NANNOFOSSIL CLAY contains abundant foraminifers. Pteropods, including giant individuals, and nannofossils are common throughout the core. The clay is completely homogenized by bioturbation. There is a very mild color change towards lighter color and higher nannofossil content at the bottom of the core, consisting of CLAYEY NANNOFOSSIL OOZE.

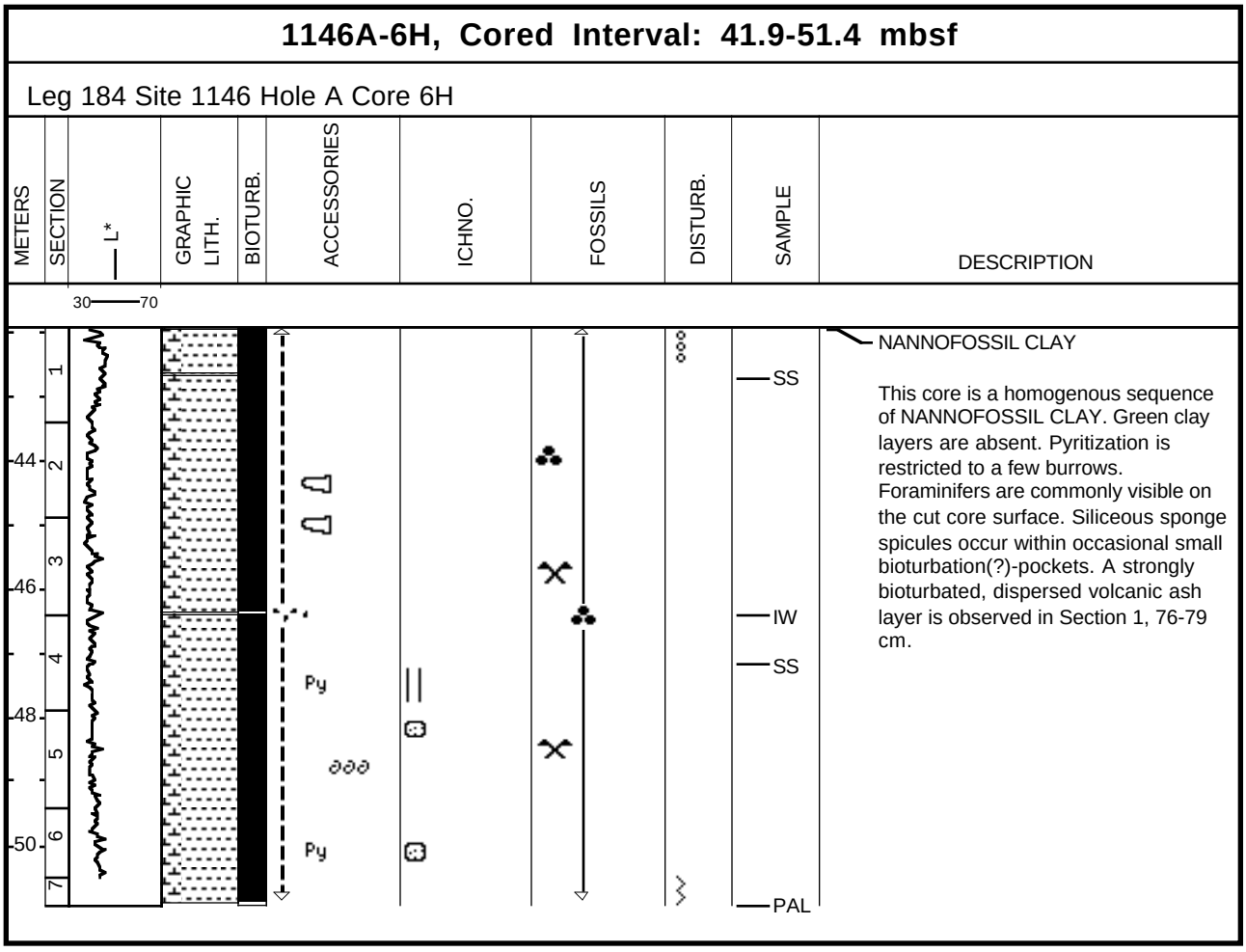
Core Photo


1146A-4H, Cored Interval: 22.9-32.4 mbsf
Leg 184 Site 1146 Hole A Core 4H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
24
26
28
30
32
1
2
3
4
5
6
7
8
Py
SS
IW
PAL
NANNOFOSSIL CLAY
This core is dominated by a homogenous dark olive green NANNOFOSSIL CLAY. A single well defined green clay layer is seen in Section 3, 22 cm. Darker patches, presumably bioturbation features, are noted locally but are subordinate to the general structureless sediment. A bright golden occurrence of pyrite is noted at Section 1, 110 cm. A few 2-3 mm wide burrows filled with white silty material, dominated by siliceous sponge spicules and minor quartz silt are seen.

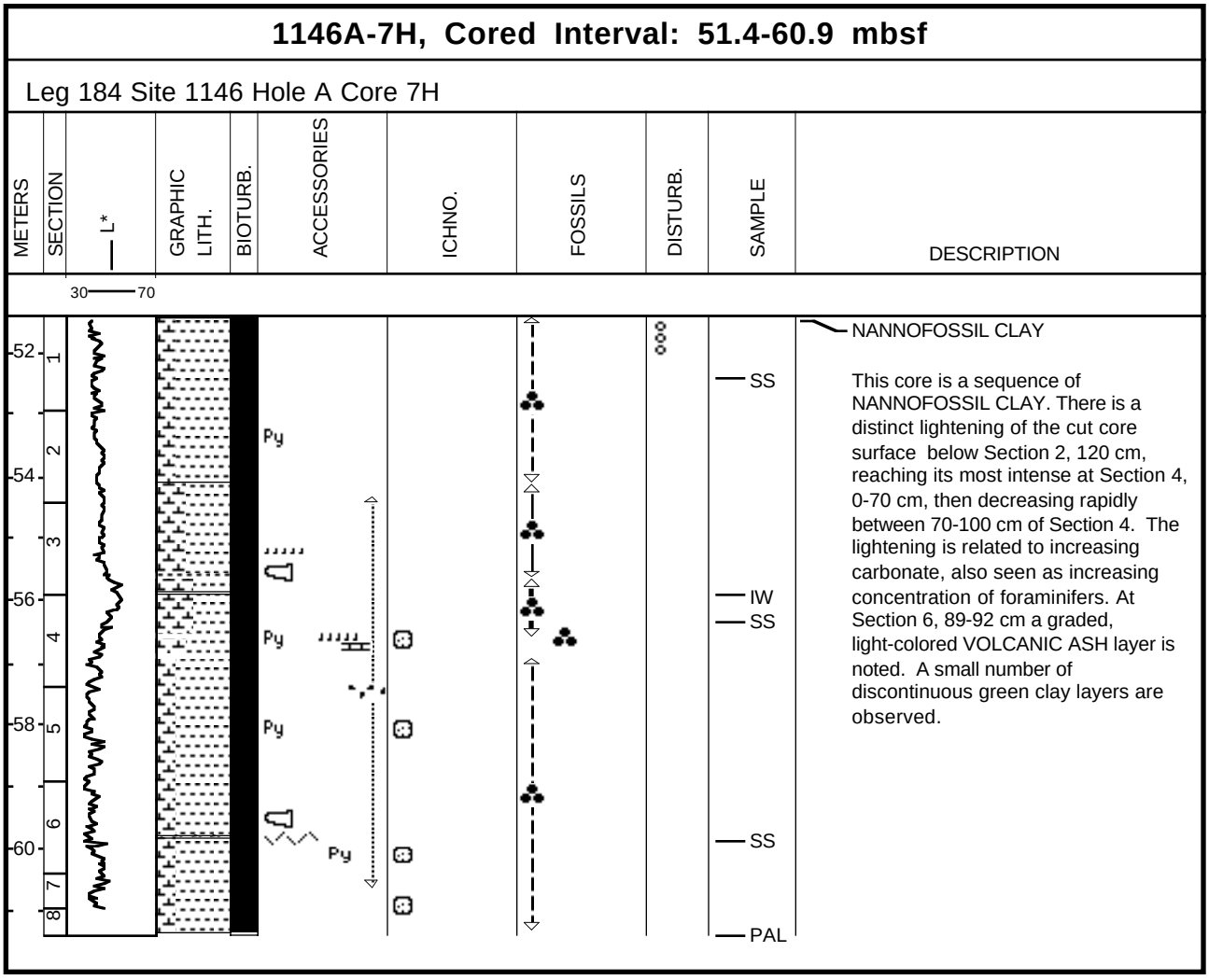
Core Photo


1146A-5H, Cored Interval: 32.4-41.9 mbsf
Leg 184 Site 1146 Hole A Core 5H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
34
36
38
40
42
1
2
3
4
5
6
7
Py
SS
IW
SS
PAL
NANNOFOSSIL CLAY
This core is a structureless sequence of NANNOFOSSIL CLAY. Green clay layers are rare and restricted for the most part to Sections 4 and 5. There is little pyritization visible beyond a few small patches in Sections 4, 5 and 7, probably replaced burrows. Foraminifers are often visible on the cut core surface.

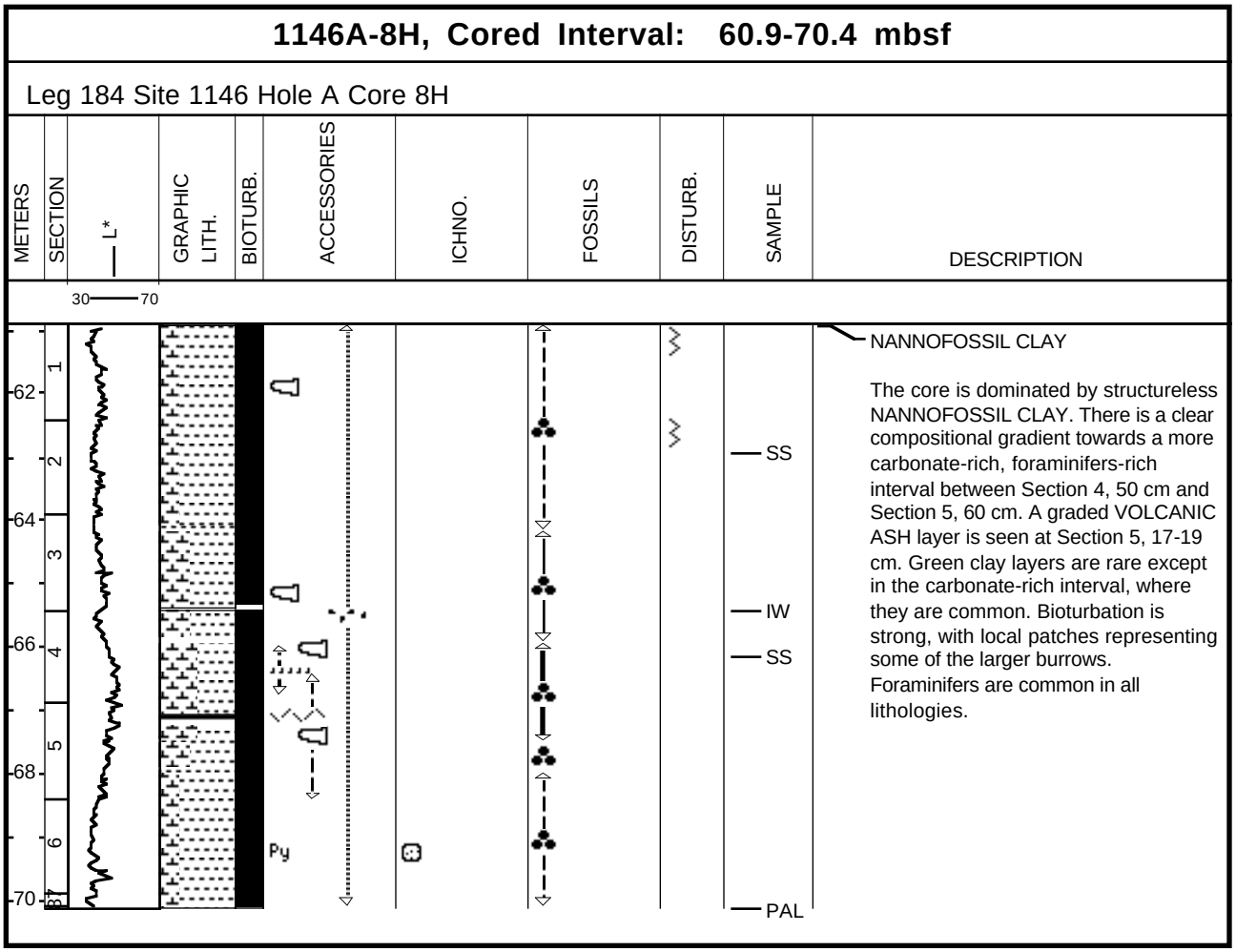
Core Photo


1146A-6H, Cored Interval: 41.9-51.4 mbsf
Leg 184 Site 1146 Hole A Core 6H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
44
46
48
50
1
2
3
4
5
6
7
Py
Py
SS
IW
SS
PAL
NANNOFOSSIL CLAY
This core is a homogenous sequence of NANNOFOSSIL CLAY. Green clay layers are absent. Pyritization is restricted to a few burrows. Foraminifers are commonly visible on the cut core surface. Siliceous sponge spicules occur within occasional small bioturbation(?)-pockets. A strongly bioturbated, dispersed volcanic ash layer is observed in Section 1, 76-79 cm.

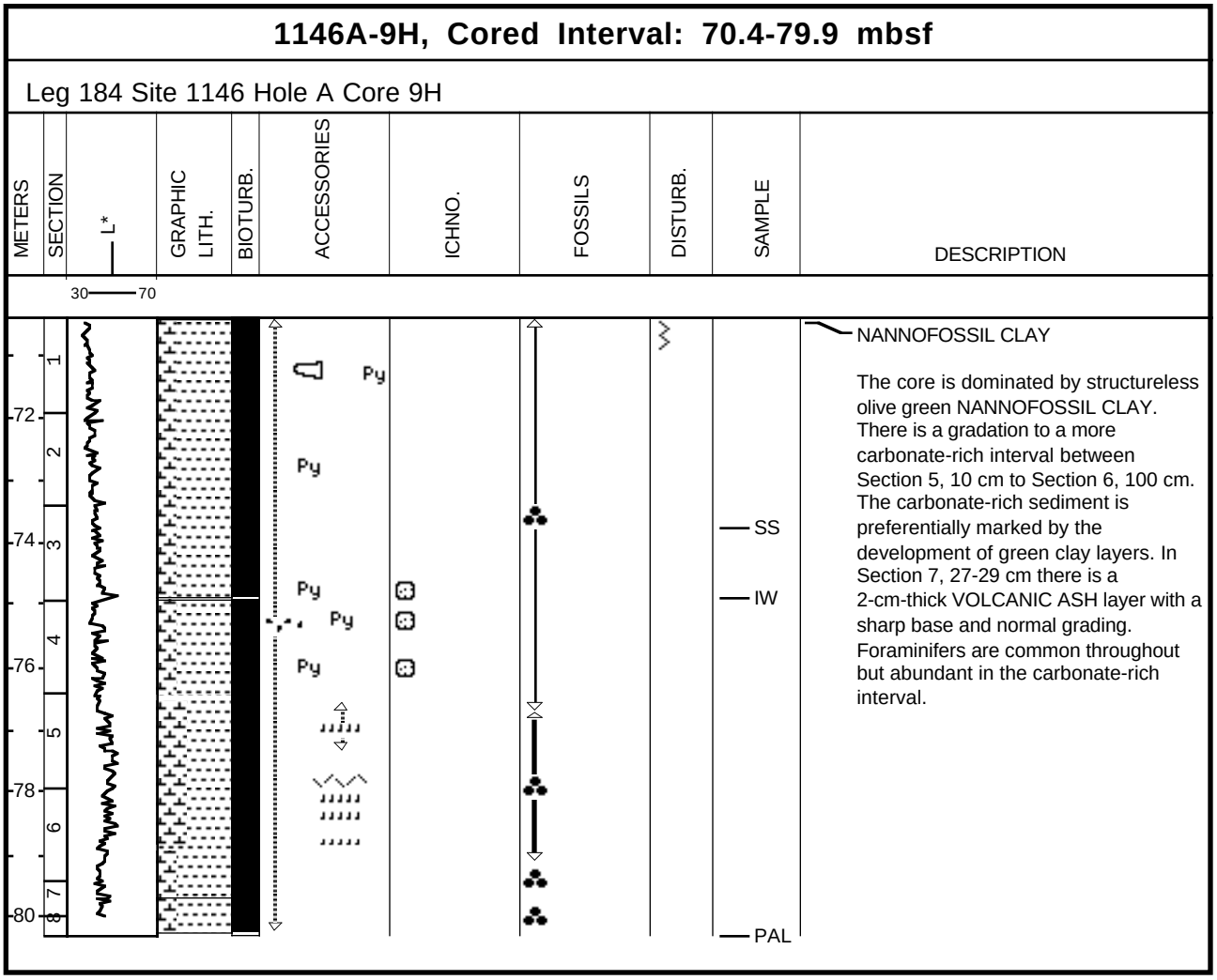
Core Photo


1146A-7H, Cored Interval: 51.4-60.9 mbsf
Leg 184 Site 1146 Hole A Core 7H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
52
54
56
58
60
1
2
3
4
5
6
7
8
Py
Py
Py
Py
SS
IW
SS
SS
PAL
NANNOFOSSIL CLAY
This core is a sequence of NANNOFOSSIL CLAY. There is a distinct lightening of the cut core surface below Section 2, 120 cm, reaching its most intense at Section 4, 0-70 cm, then decreasing rapidly between 70-100 cm of Section 4. The lightening is related to increasing carbonate, also seen as increasing concentration of foraminifers. At Section 6, 89-92 cm a graded, light-colored VOLCANIC ASH layer is noted. A small number of discontinuous green clay layers are observed.

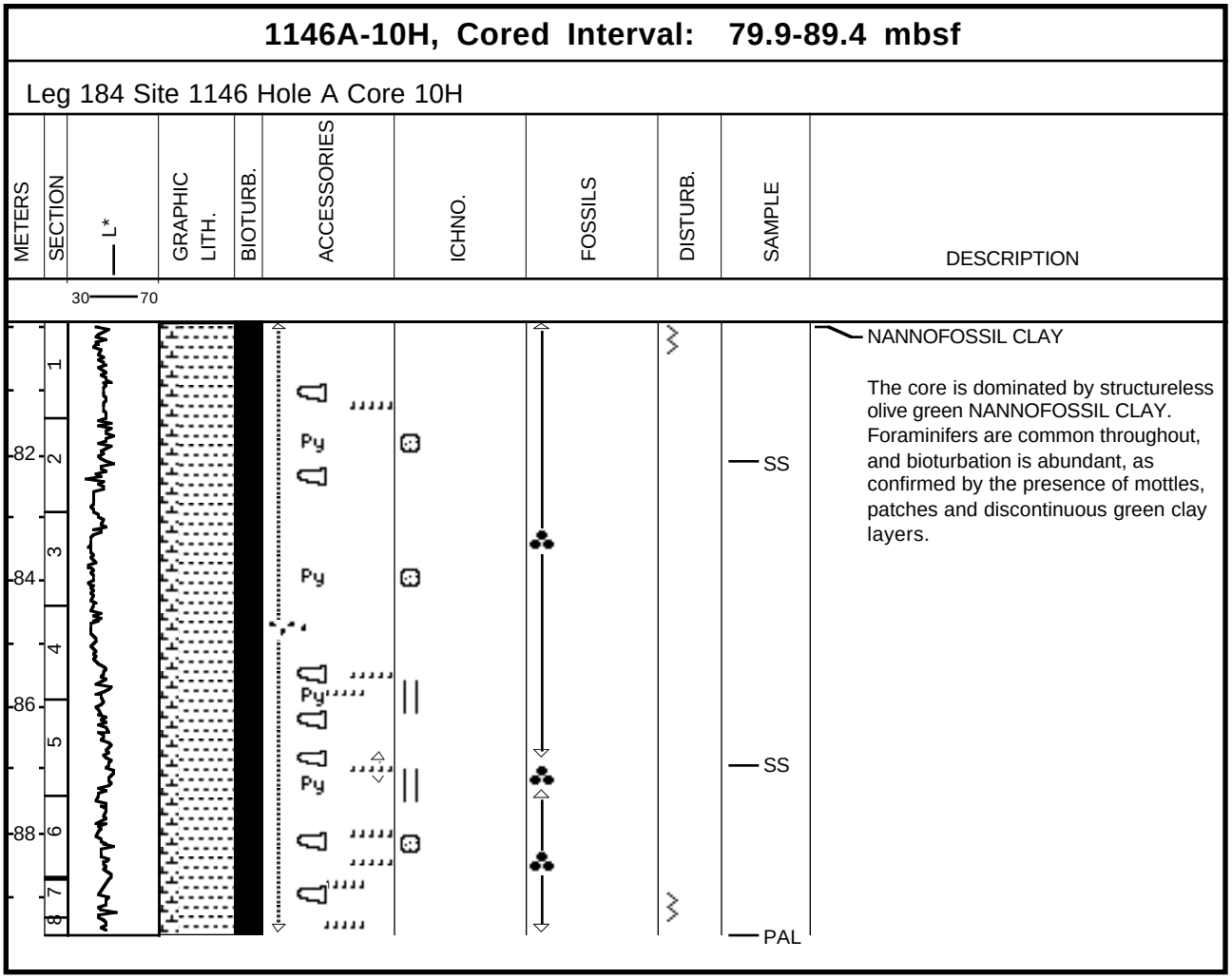
Core Photo


1146A-8H, Cored Interval: 60.9-70.4 mbsf
Leg 184 Site 1146 Hole A Core 8H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
62
64
66
68
70
1
2
3
4
5
6
CC
Py
SS
IW
SS
PAL
NANNOFOSSIL CLAY
The core is dominated by structureless NANNOFOSSIL CLAY. There is a clear compositional gradient towards a more carbonate-rich, foraminifers-rich interval between Section 4, 50 cm and Section 5, 60 cm. A graded VOLCANIC ASH layer is seen at Section 5, 17-19 cm. Green clay layers are rare except in the carbonate-rich interval, where they are common. Bioturbation is strong, with local patches representing some of the larger burrows. Foraminifers are common in all lithologies.

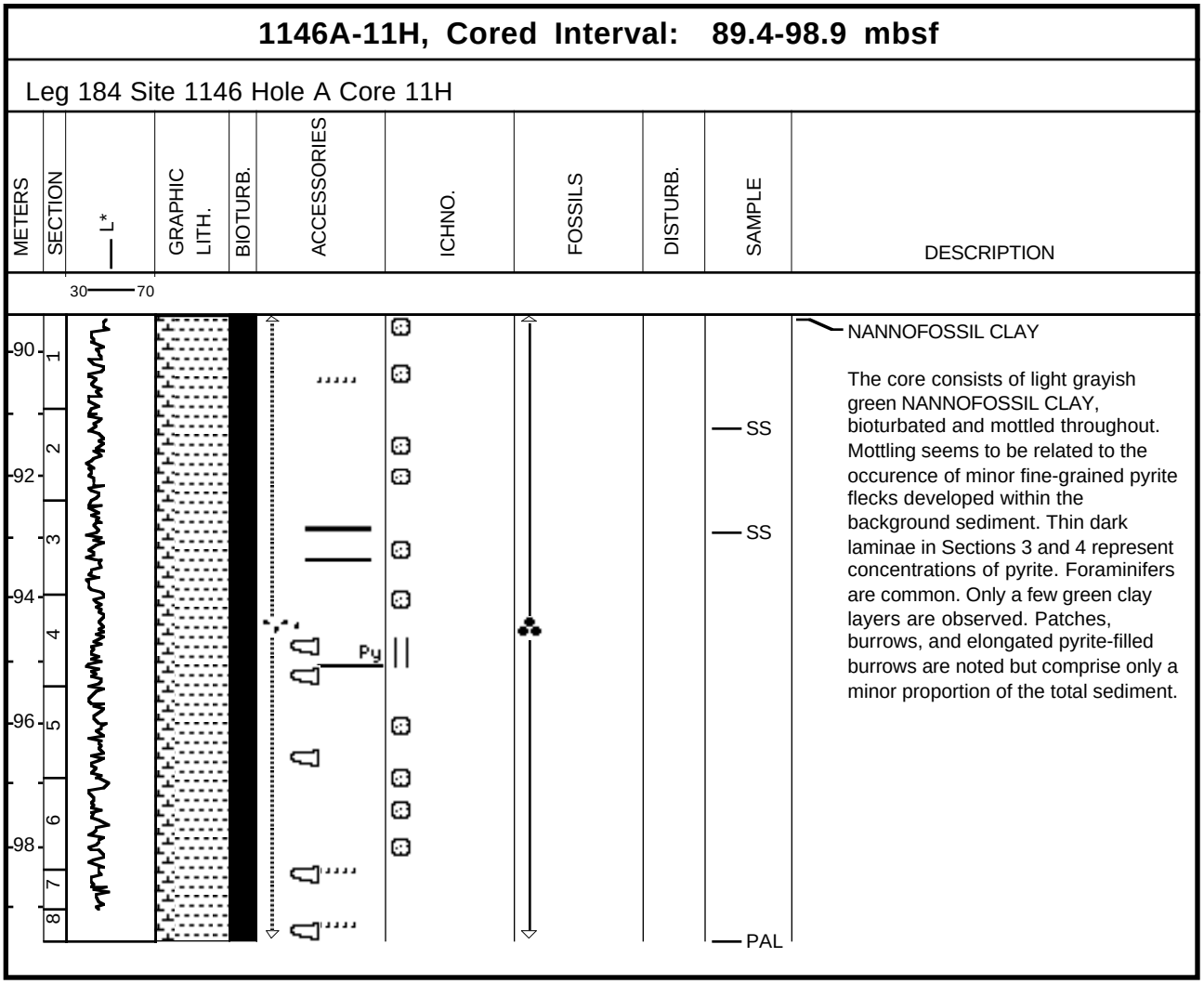
Core Photo


1146A-9H, Cored Interval: 70.4-79.9 mbsf
Leg 184 Site 1146 Hole A Core 9H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
72
74
76
78
80
1
2
3
4
5
6
7
Py
Py
Py
Py
Py
SS
IW
PAL
NANNOFOSSIL CLAY
The core is dominated by structureless olive green NANNOFOSSIL CLAY. There is a gradation to a more carbonate-rich interval between Section 5, 10 cm to Section 6, 100 cm. The carbonate-rich sediment is preferentially marked by the development of green clay layers. In Section 7, 27-29 cm there is a 2-cm-thick VOLCANIC ASH layer with a sharp base and normal grading. Foraminifers are common throughout but abundant in the carbonate-rich interval.

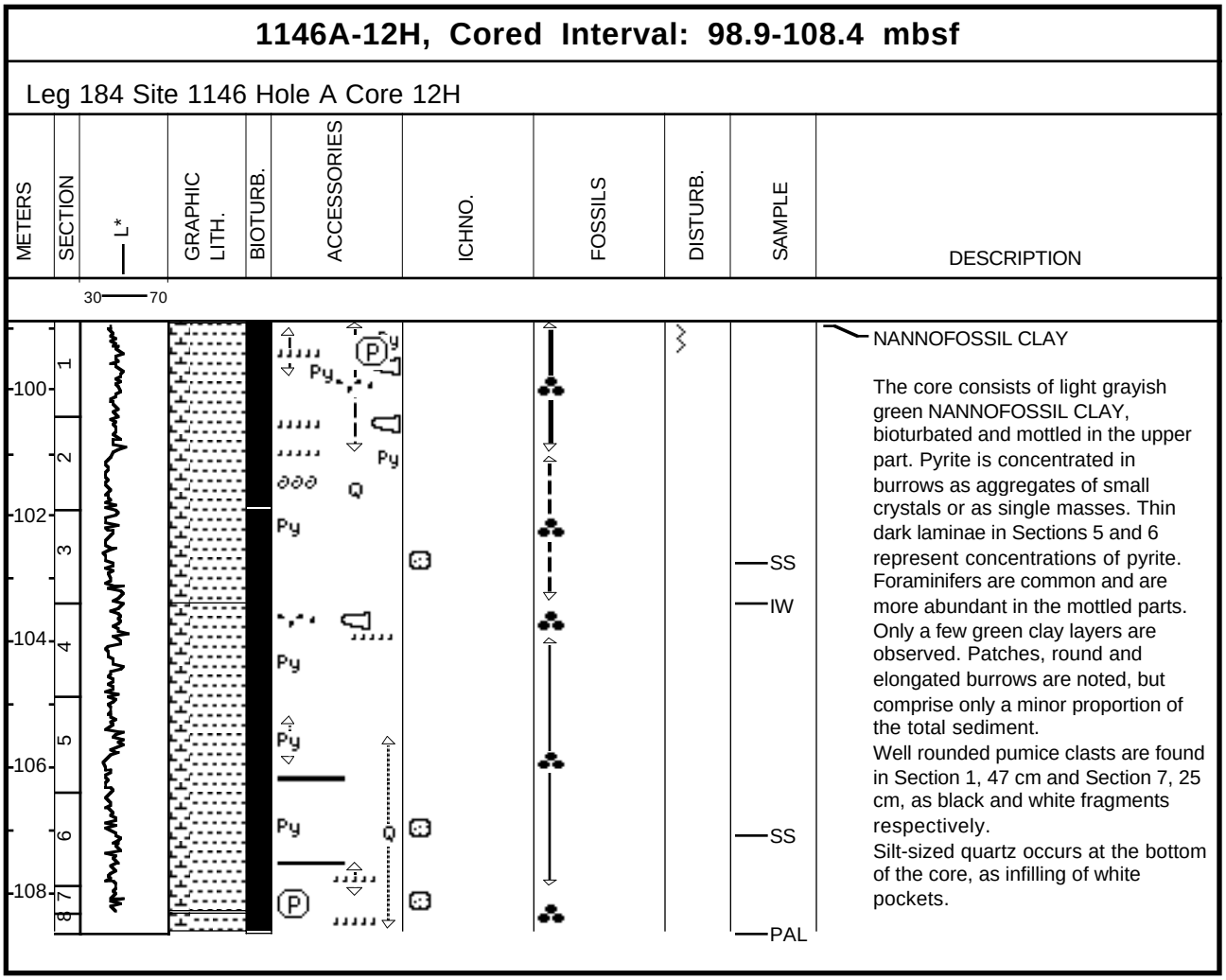
Core Photo


1146A-10H, Cored Interval: 79.9-89.4 mbsf
Leg 184 Site 1146 Hole A Core 10H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
82
84
86
88
1
2
3
4
5
6
7
Py
SS
SS
PAL
NANNOFOSSIL CLAY
The core is dominated by structureless olive green NANNOFOSSIL CLAY. Foraminifers are common throughout, and bioturbation is abundant, as confirmed by the presence of mottles, patches and discontinuous green clay layers.

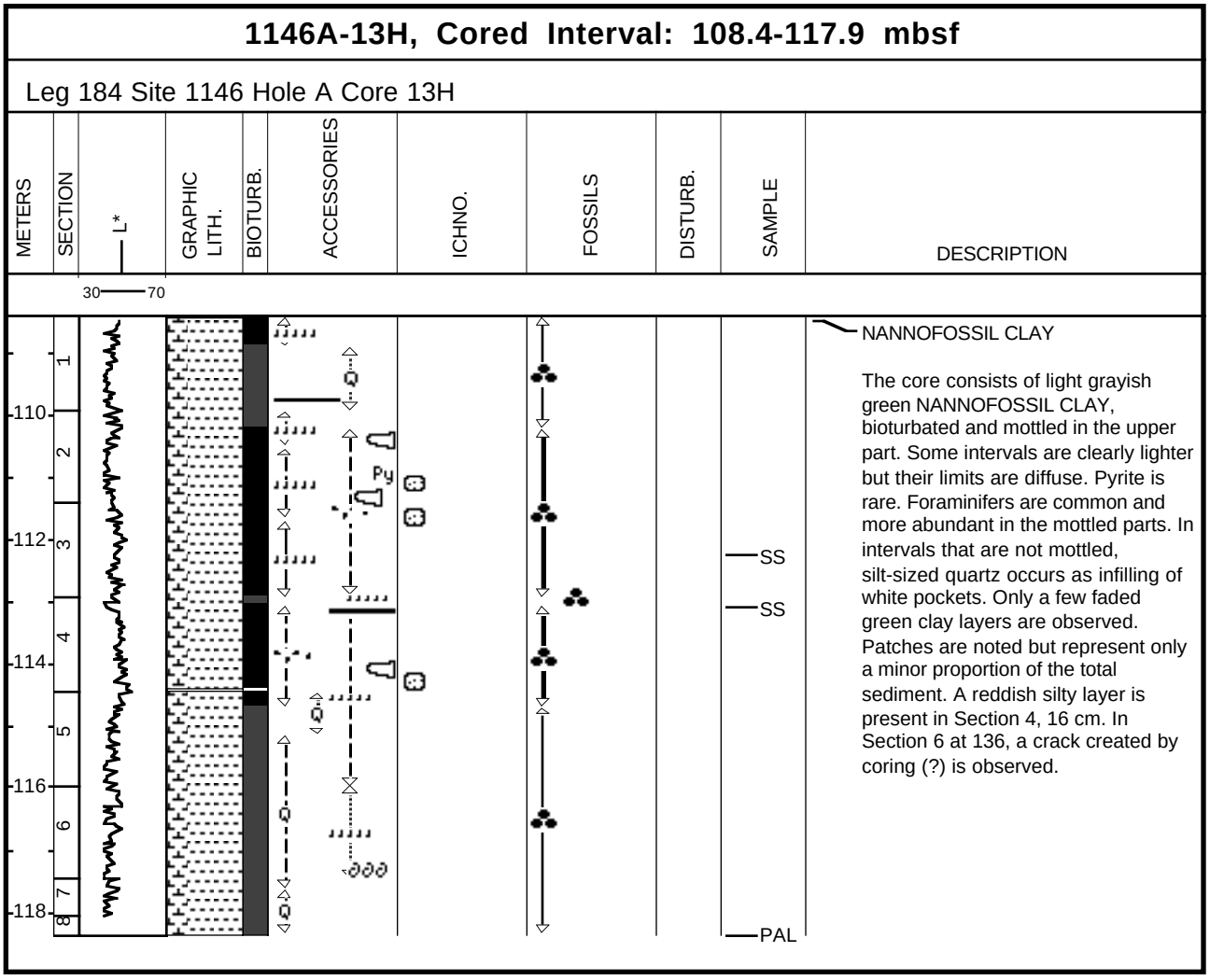
Core Photo


1146A-11H, Cored Interval: 89.4-98.9 mbsf
Leg 184 Site 1146 Hole A Core 11H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
90
92
94
96
98
1
2
3
4
5
6
7
8
Py
SS
SS
PAL
NANNOFOSSIL CLAY
The core consists of light grayish green NANNOFOSSIL CLAY, bioturbated and mottled throughout. Mottling seems to be related to the occurence of minor fine-grained pyrite flecks developed within the background sediment. Thin dark laminae in Sections 3 and 4 represent concentrations of pyrite. Foraminifers are common. Only a few green clay layers are observed. Patches, burrows, and elongated pyrite-filled burrows are noted but comprise only a minor proportion of the total sediment.

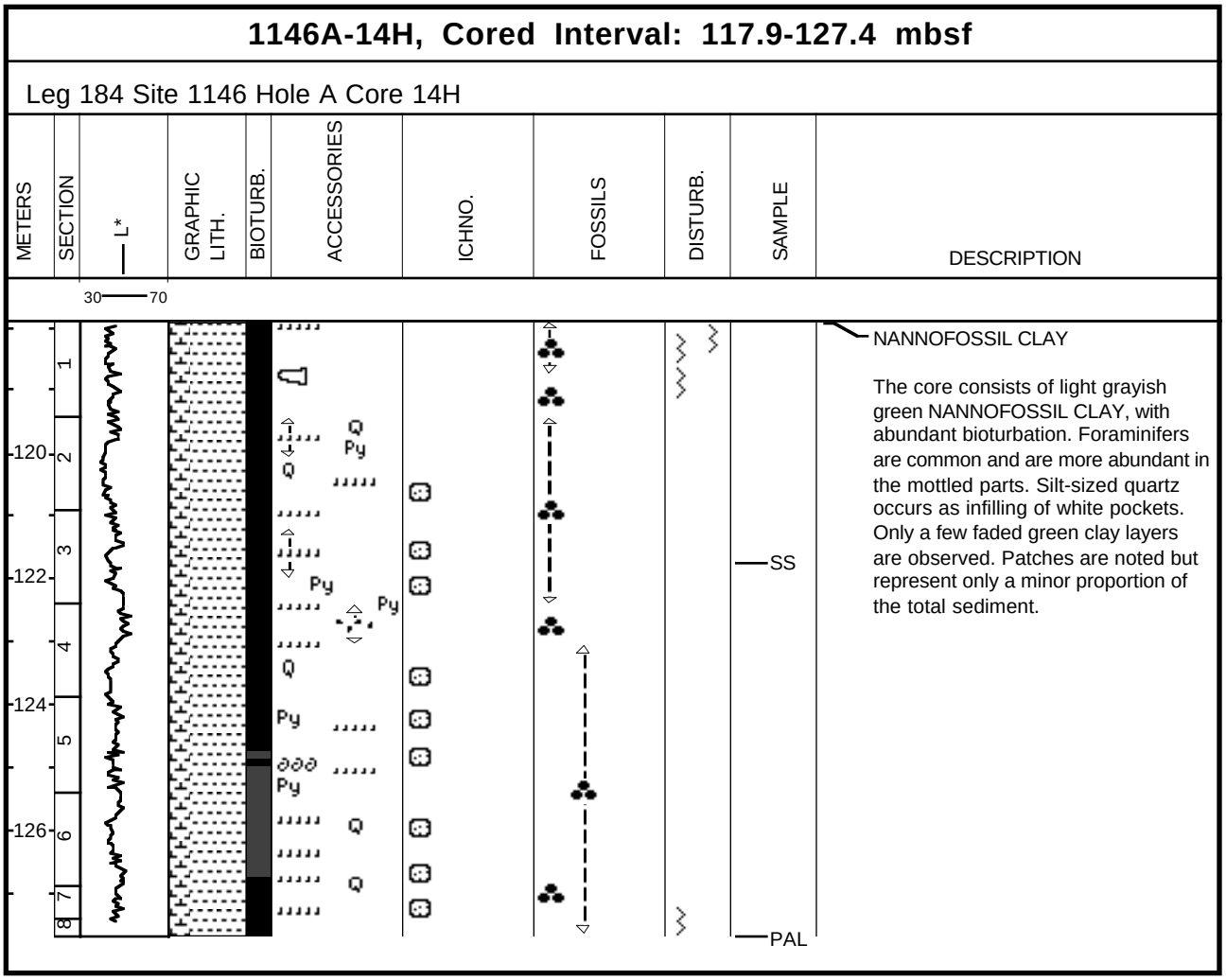
Core Photo


1146A-12H, Cored Interval: 98.9-108.4 mbsf
Leg 184 Site 1146 Hole A Core 12H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
100
102
104
106
108
1
2
3
4
5
6
7
Py
Q
P
SS
IW
SS
PAL
NANNOFOSSIL CLAY
The core consists of light grayish green NANNOFOSSIL CLAY, bioturbated and mottled in the upper part. Pyrite is concentrated in burrows as aggregates of small crystals or as single masses. Thin dark laminae in Sections 5 and 6 represent concentrations of pyrite. Foraminifers are common and are more abundant in the mottled parts. Only a few green clay layers are observed. Patches, round and elongated burrows are noted, but comprise only a minor proportion of the total sediment.
Well rounded pumice clasts are found in Section 1, 47 cm and Section 7, 25 cm, as black and white fragments respectively.
Silt-sized quartz occurs at the bottom of the core, as infilling of white pockets.

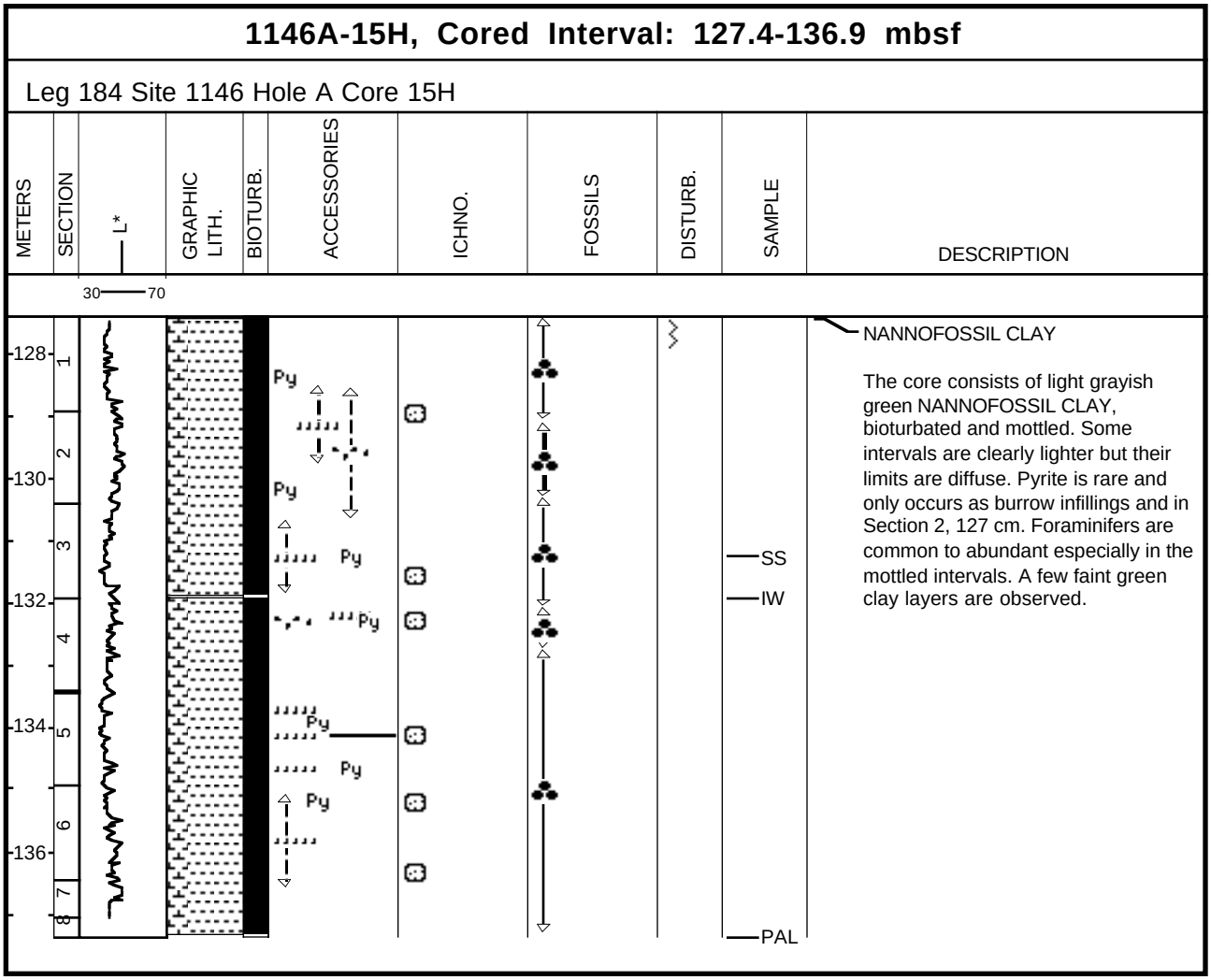
Core Photo


1146A-13H, Cored Interval: 108.4-117.9 mbsf
Leg 184 Site 1146 Hole A Core 13H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
110
112
114
116
118
1
2
3
4
5
6
7
Py
SS
SS
PAL
NANNOFOSSIL CLAY
The core consists of light grayish green NANNOFOSSIL CLAY, bioturbated and mottled in the upper part. Some intervals are clearly lighter but their limits are diffuse. Pyrite is rare. Foraminifers are common and more abundant in the mottled parts. In intervals that are not mottled, silt-sized quartz occurs as infilling of white pockets. Only a few faded green clay layers are observed. Patches are noted but represent only a minor proportion of the total sediment. A reddish silty layer is present in Section 4, 16 cm. In Section 6 at 136, a crack created by coring (?) is observed.

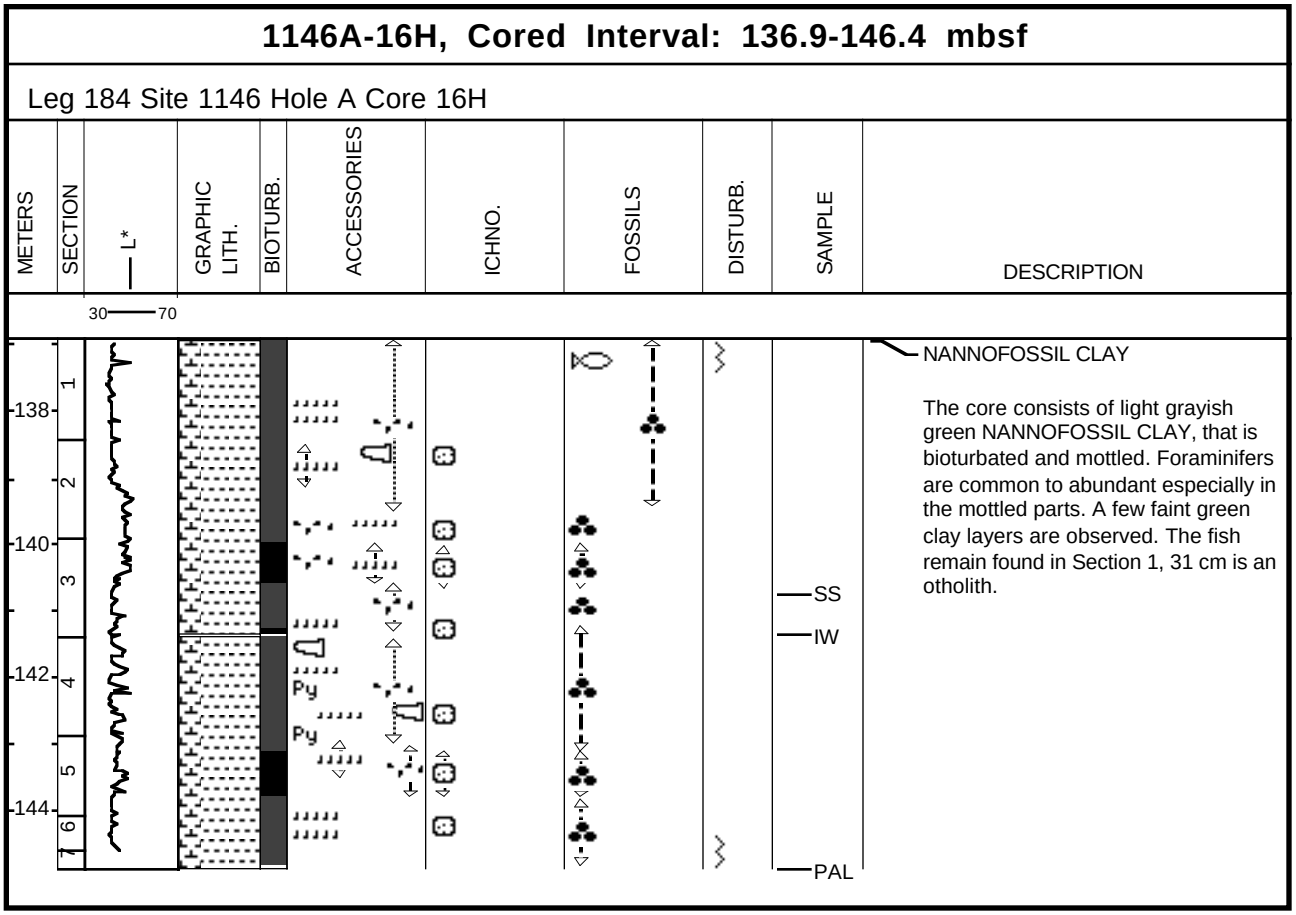
Core Photo


1146A-14H, Cored Interval: 117.9-127.4 mbsf
Leg 184 Site 1146 Hole A Core 14H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
120
122
124
126
1
2
3
4
5
6
7
CC
Q
Py
SS
PAL
NANNOFOSSIL CLAY
The core consists of light grayish green NANNOFOSSIL CLAY, with abundant bioturbation. Foraminifers are common and are more abundant in the mottled parts. Silt-sized quartz occurs as infilling of white pockets. Only a few faded green clay layers are observed. Patches are noted but represent only a minor proportion of the total sediment.

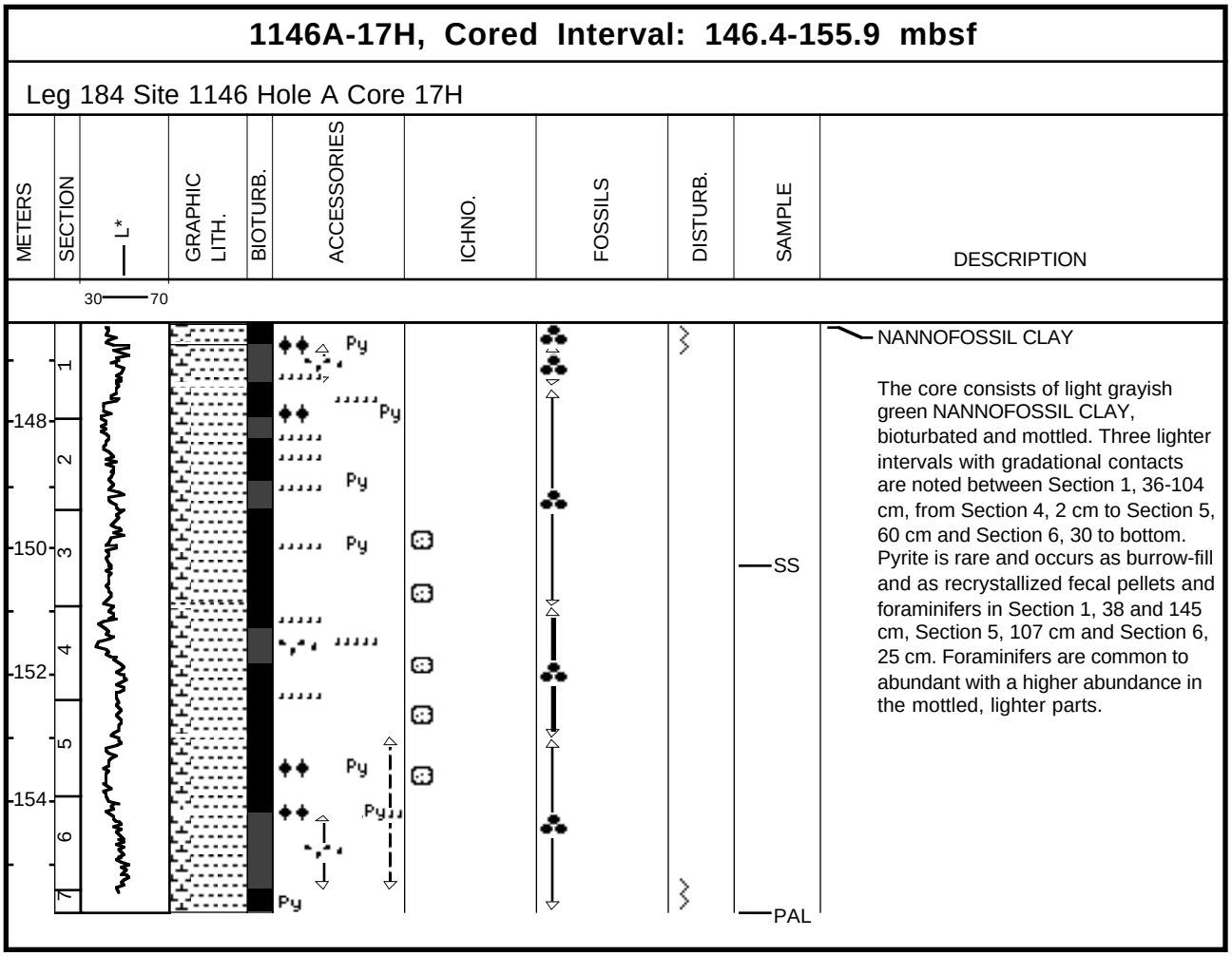
Core Photo


1146A-15H, Cored Interval: 127.4-136.9 mbsf
Leg 184 Site 1146 Hole A Core 15H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
128
130
132
134
136
1
2
3
4
5
6
7
Py
SS
IW
PAL
NANNOFOSSIL CLAY
The core consists of light grayish green NANNOFOSSIL CLAY, bioturbated and mottled. Some intervals are clearly lighter but their limits are diffuse. Pyrite is rare and only occurs as burrow infillings and in Section 2, 127 cm. Foraminifers are common to abundant especially in the mottled intervals. A few faint green clay layers are observed.

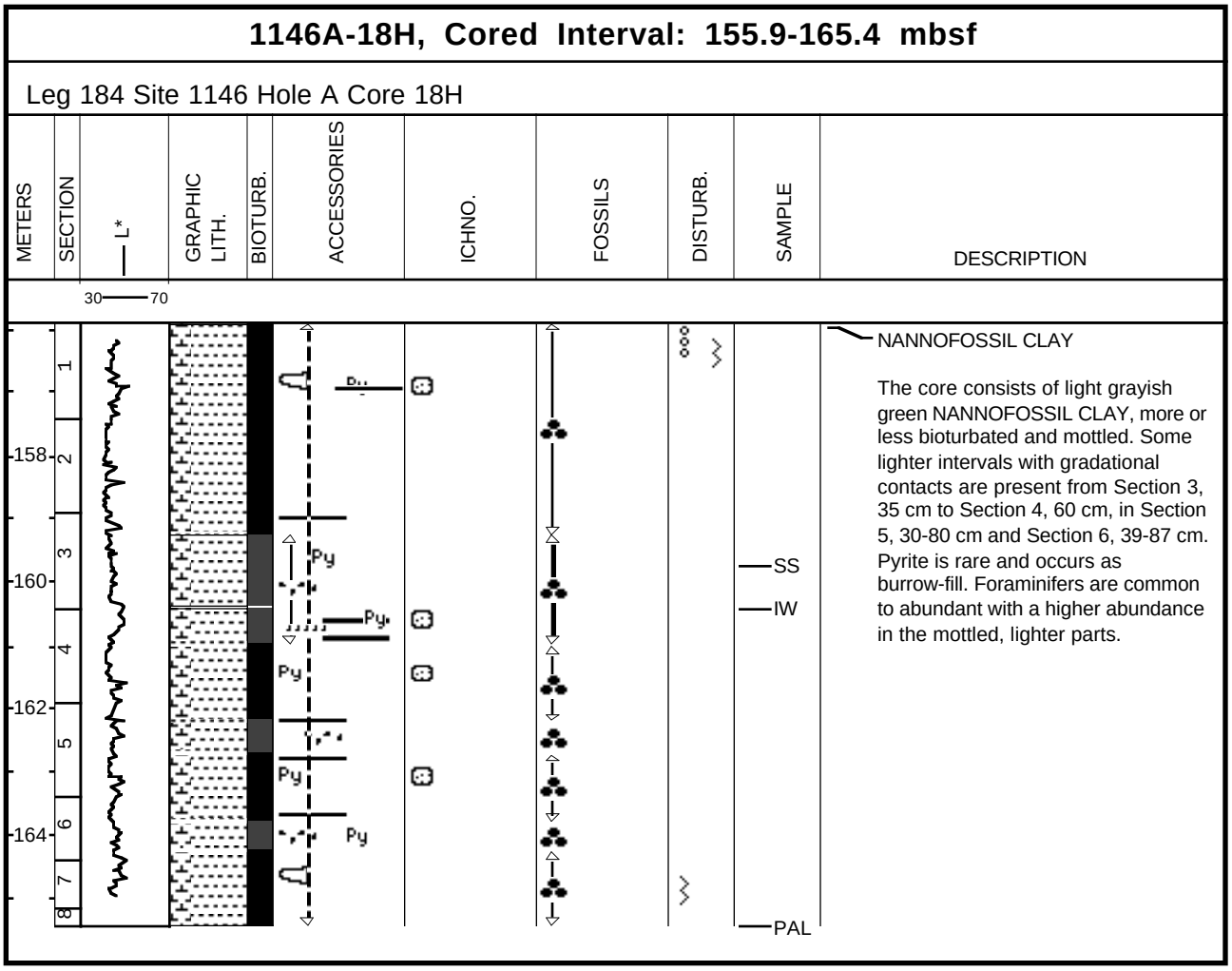
Core Photo


1146A-16H, Cored Interval: 136.9-146.4 mbsf
Leg 184 Site 1146 Hole A Core 16H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
138
140
142
144
1
2
3
4
5
6
Py
Py
SS
IW
PAL
NANNOFOSSIL CLAY
The core consists of light grayish green NANNOFOSSIL CLAY, that is bioturbated and mottled. Foraminifers are common to abundant especially in the mottled parts. A few faint green clay layers are observed. The fish remain found in Section 1, 31 cm is an otholith.

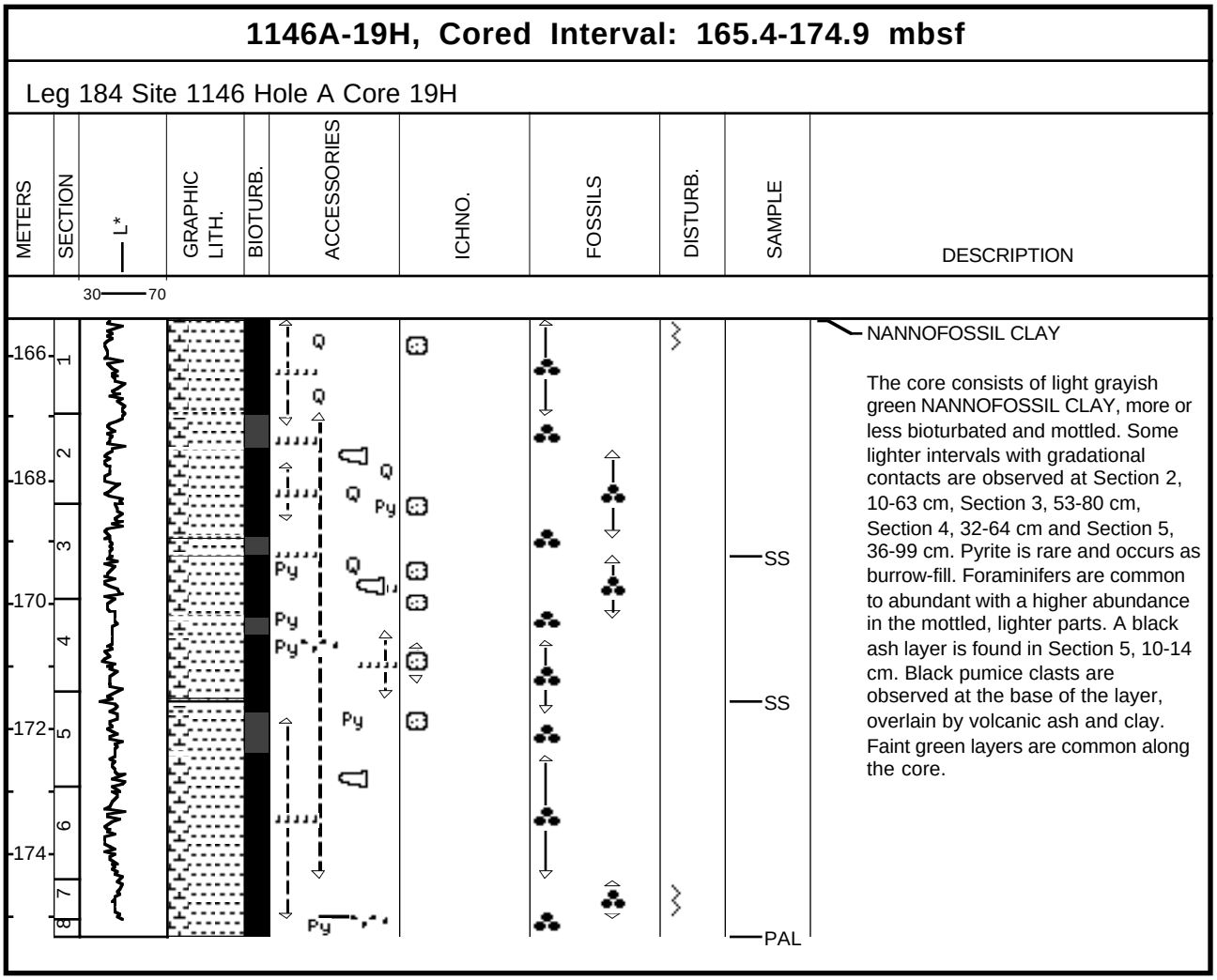
Core Photo


1146A-17H, Cored Interval: 146.4-155.9 mbsf
Leg 184 Site 1146 Hole A Core 17H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
148
150
152
154
1
2
3
4
5
6
7
Py
SS
PAL
NANNOFOSSIL CLAY
The core consists of light grayish green NANNOFOSSIL CLAY, bioturbated and mottled. Three lighter intervals with gradational contacts are noted between Section 1, 36-104 cm, from Section 4, 2 cm to Section 5, 60 cm and Section 6, 30 to bottom. Pyrite is rare and occurs as burrow-fill and as recrystallized fecal pellets and foraminifers in Section 1, 38 and 145 cm, Section 5, 107 cm and Section 6, 25 cm. Foraminifers are common to abundant with a higher abundance in the mottled, lighter parts.

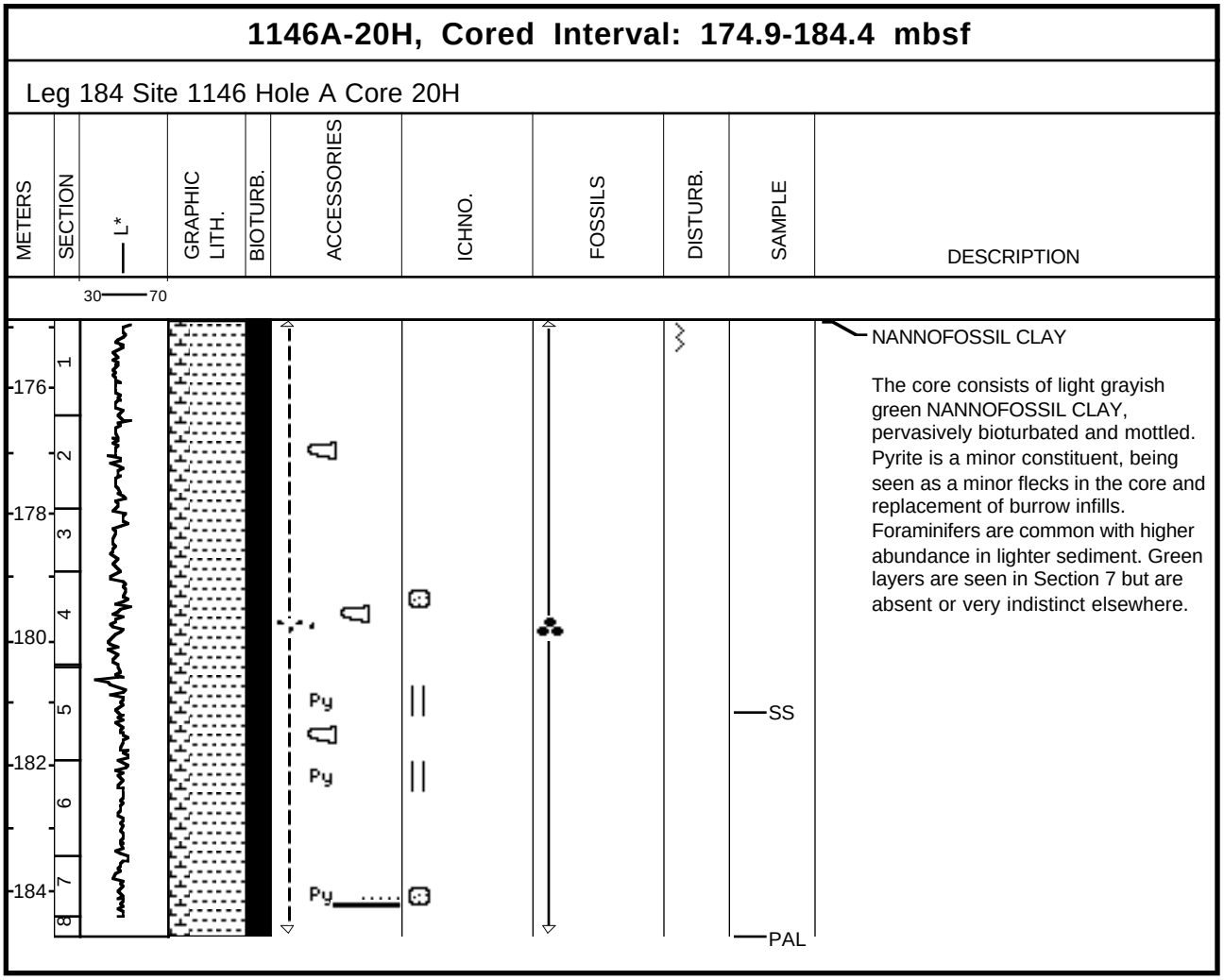
Core Photo


1146A-18H, Cored Interval: 155.9-165.4 mbsf
Leg 184 Site 1146 Hole A Core 18H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
158
160
162
164
1
2
3
4
5
6
7
8
Py
SS
IW
PAL
NANNOFOSSIL CLAY
The core consists of light grayish green NANNOFOSSIL CLAY, more or less bioturbated and mottled. Some lighter intervals with gradational contacts are present from Section 3, 35 cm to Section 4, 60 cm, in Section 5, 30-80 cm and Section 6, 39-87 cm. Pyrite is rare and occurs as burrow-fill. Foraminifers are common to abundant with a higher abundance in the mottled, lighter parts.

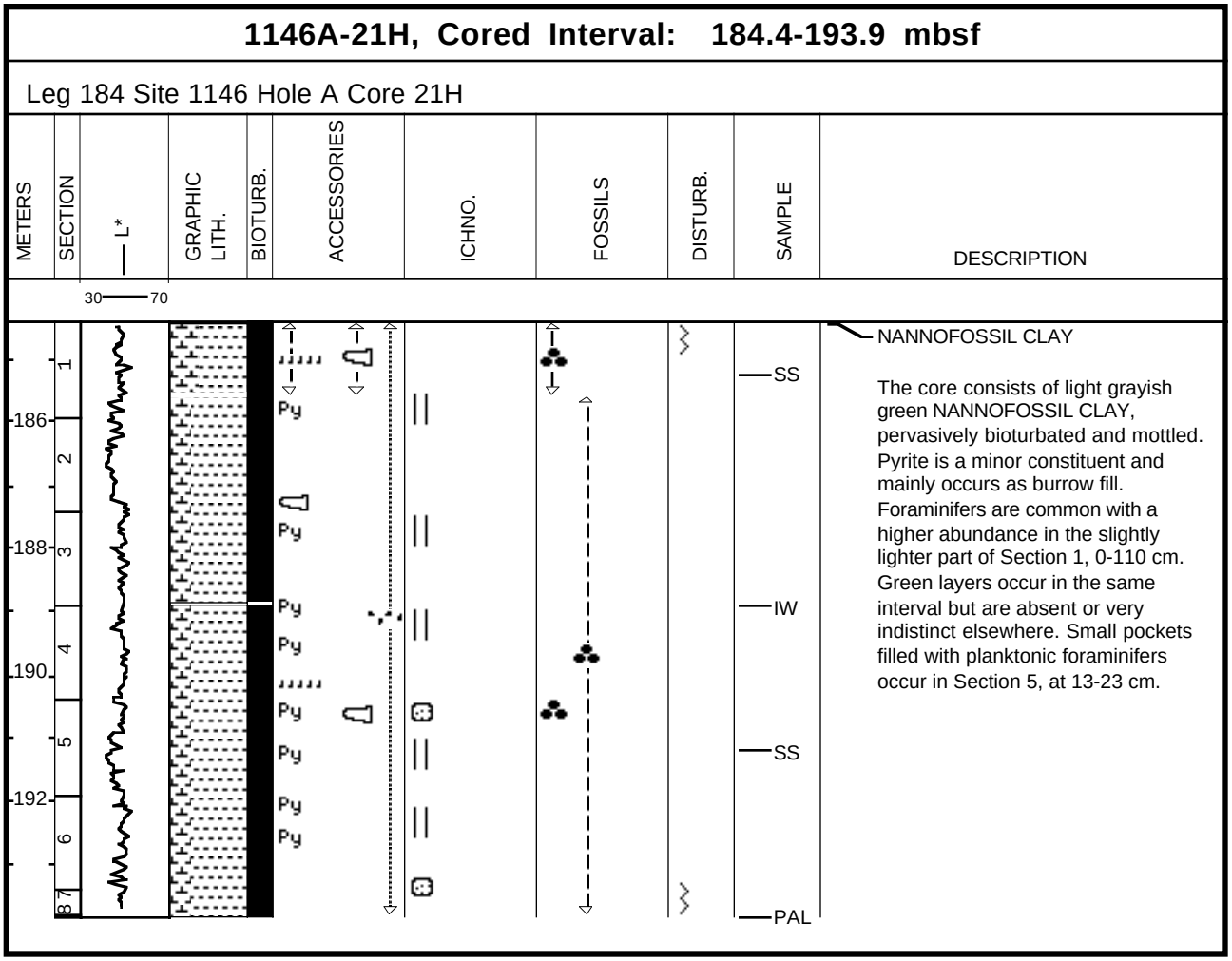
Core Photo


1146A-19H, Cored Interval: 165.4-174.9 mbsf
Leg 184 Site 1146 Hole A Core 19H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
166
168
170
172
174
1
2
3
4
5
6
7
8
Q
Py
SS
SS
PAL
NANNOFOSSIL CLAY
The core consists of light grayish green NANNOFOSSIL CLAY, more or less bioturbated and mottled. Some lighter intervals with gradational contacts are observed at Section 2, 10-63 cm, Section 3, 53-80 cm, Section 4, 32-64 cm and Section 5, 36-99 cm. Pyrite is rare and occurs as burrow-fill. Foraminifers are common to abundant with a higher abundance in the mottled, lighter parts. A black ash layer is found in Section 5, 10-14 cm. Black pumice clasts are observed at the base of the layer, overlain by volcanic ash and clay. Faint green layers are common along the core.

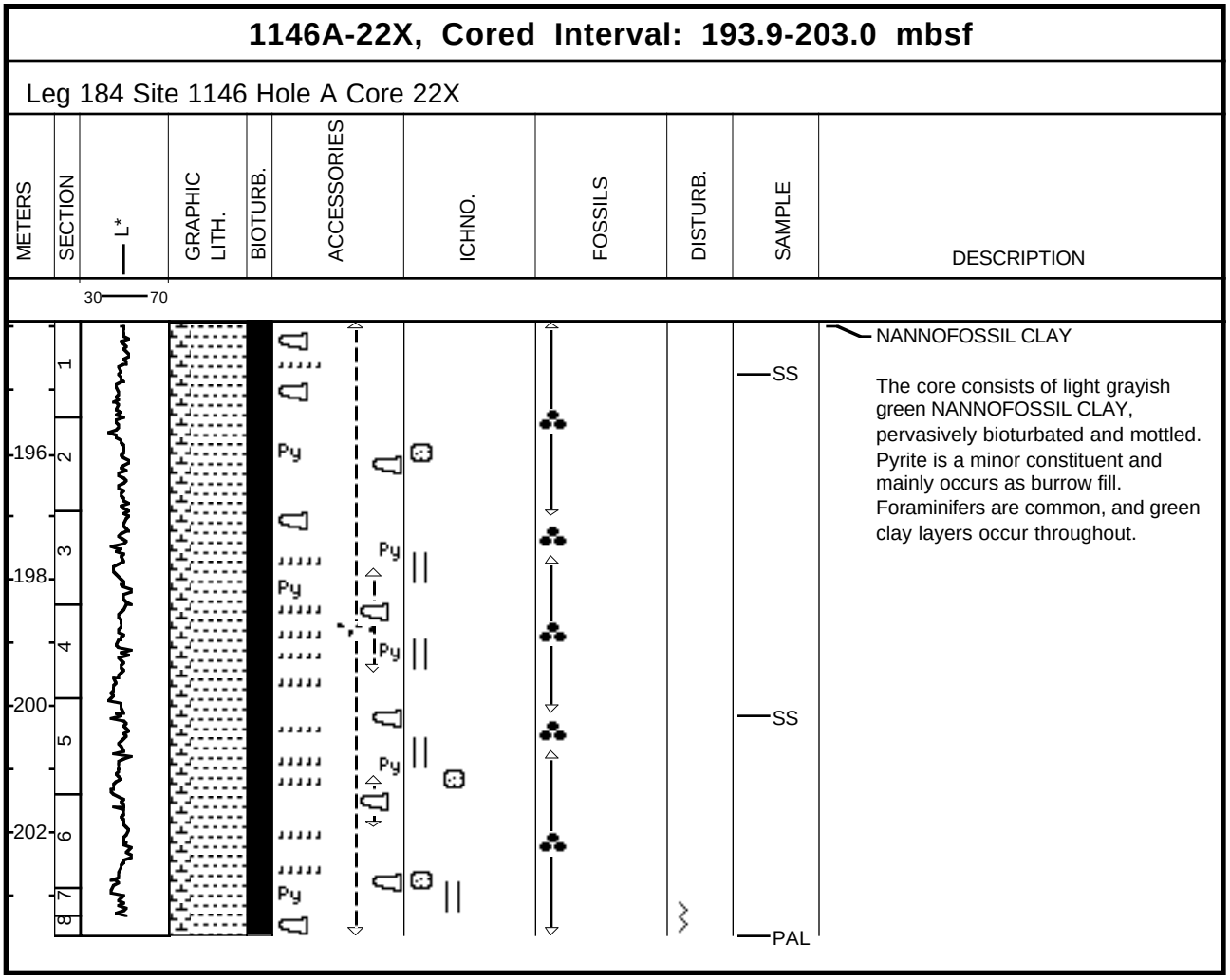
Core Photo


1146A-20H, Cored Interval: 174.9-184.4 mbsf
Leg 184 Site 1146 Hole A Core 20H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
176
178
180
182
184
1
2
3
4
5
6
7
8
Py
Py
Py
SS
PAL
NANNOFOSSIL CLAY
The core consists of light grayish green NANNOFOSSIL CLAY, pervasively bioturbated and mottled. Pyrite is a minor constituent, being seen as a minor flecks in the core and replacement of burrow infills. Foraminifers are common with higher abundance in lighter sediment. Green layers are seen in Section 7 but are absent or very indistinct elsewhere.

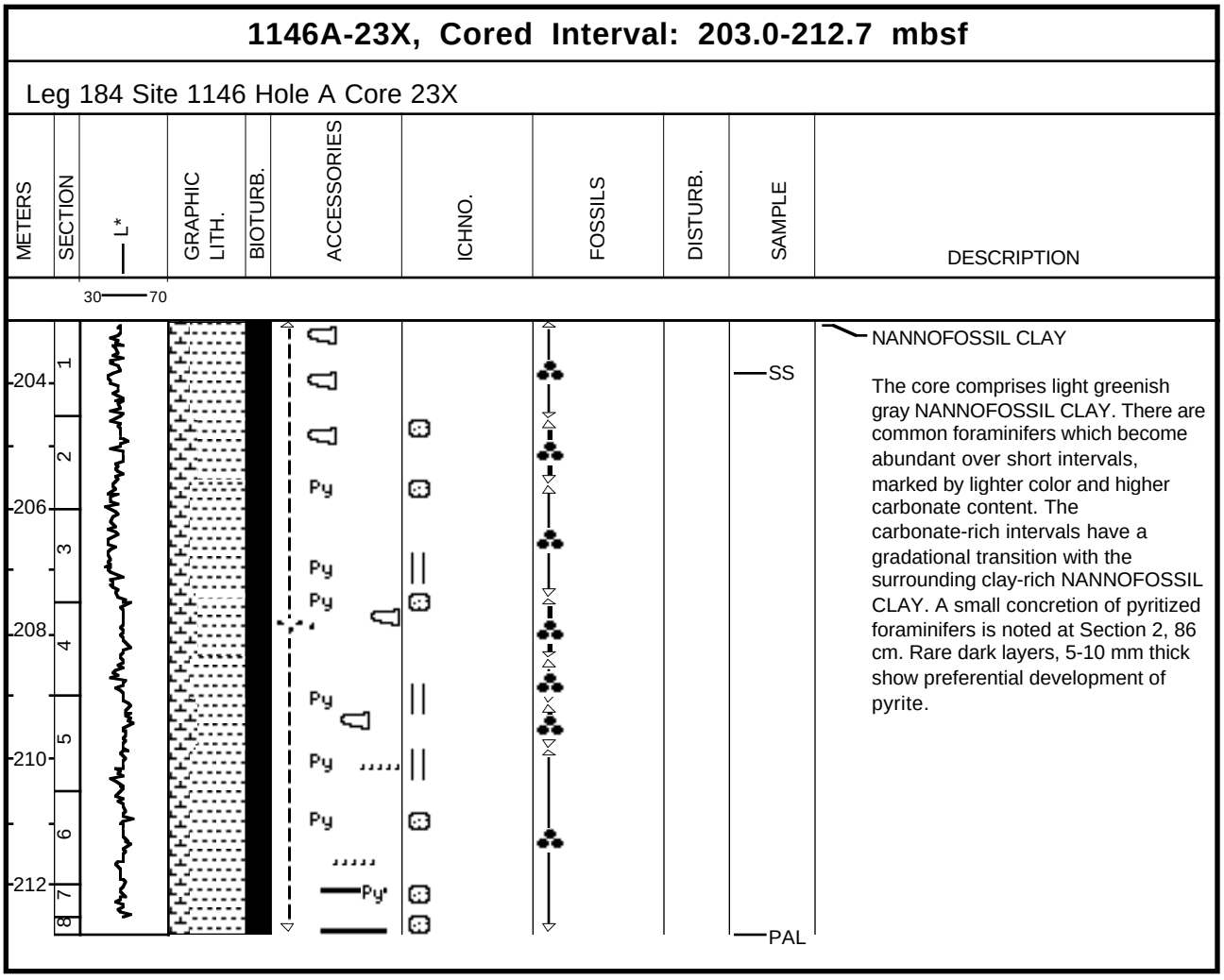
Core Photo


1146A-21H, Cored Interval: 184.4-193.9 mbsf
Leg 184 Site 1146 Hole A Core 21H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
186
188
190
192
1
2
3
4
5
6
7
Py
SS
IW
SS
PAL
NANNOFOSSIL CLAY
The core consists of light grayish green NANNOFOSSIL CLAY, pervasively bioturbated and mottled. Pyrite is a minor constituent and mainly occurs as burrow fill. Foraminifers are common with a higher abundance in the slightly lighter part of Section 1, 0-110 cm. Green layers occur in the same interval but are absent or very indistinct elsewhere. Small pockets filled with planktonic foraminifers occur in Section 5, at 13-23 cm.

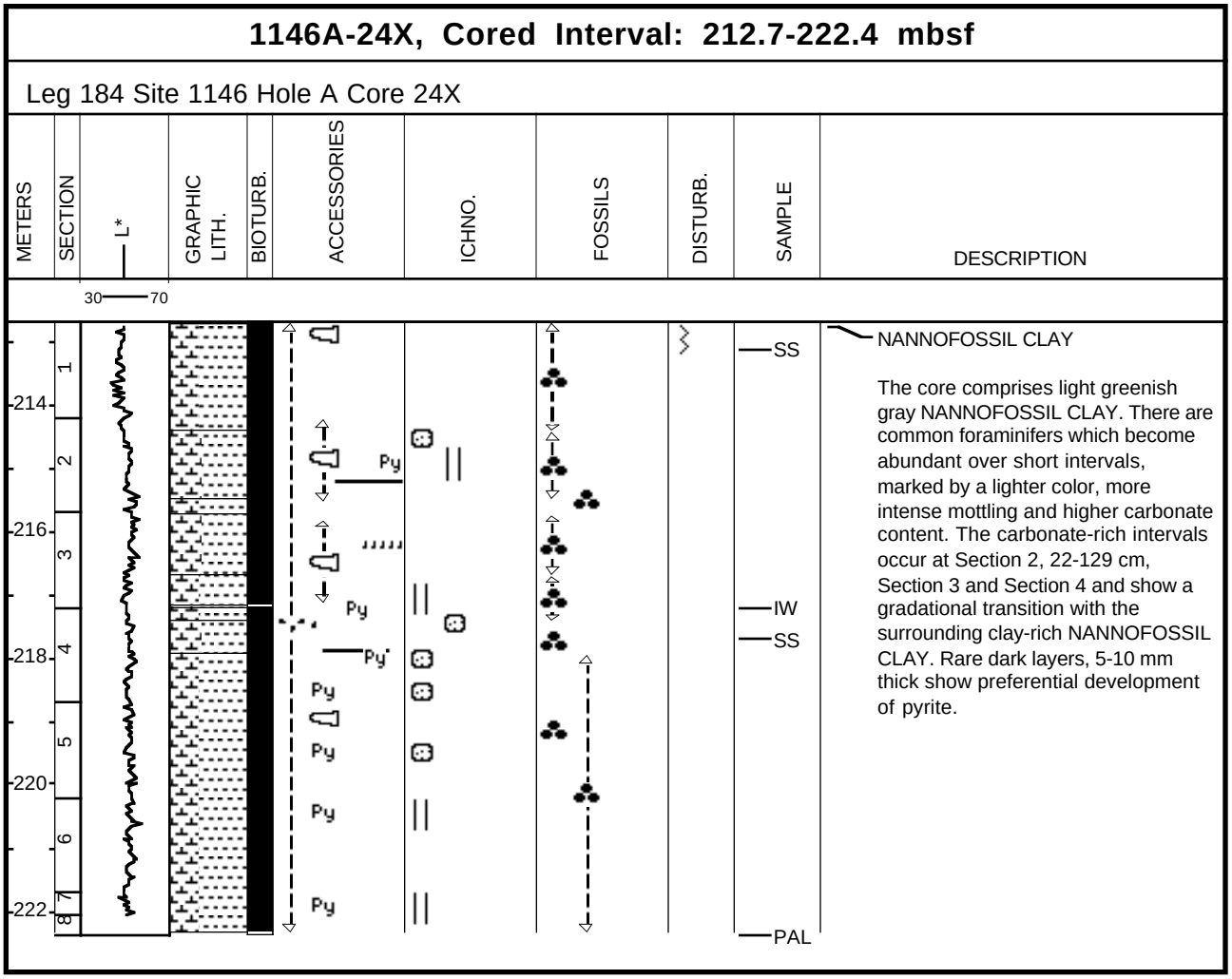
Core Photo


1146A-22X, Cored Interval: 193.9-203.0 mbsf
Leg 184 Site 1146 Hole A Core 22X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
196
198
200
202
1
2
3
4
5
6
7
8
Py
SS
SS
PAL
NANNOFOSSIL CLAY
The core consists of light grayish green NANNOFOSSIL CLAY, pervasively bioturbated and mottled. Pyrite is a minor constituent and mainly occurs as burrow fill. Foraminifers are common, and green clay layers occur throughout.

Core Photo

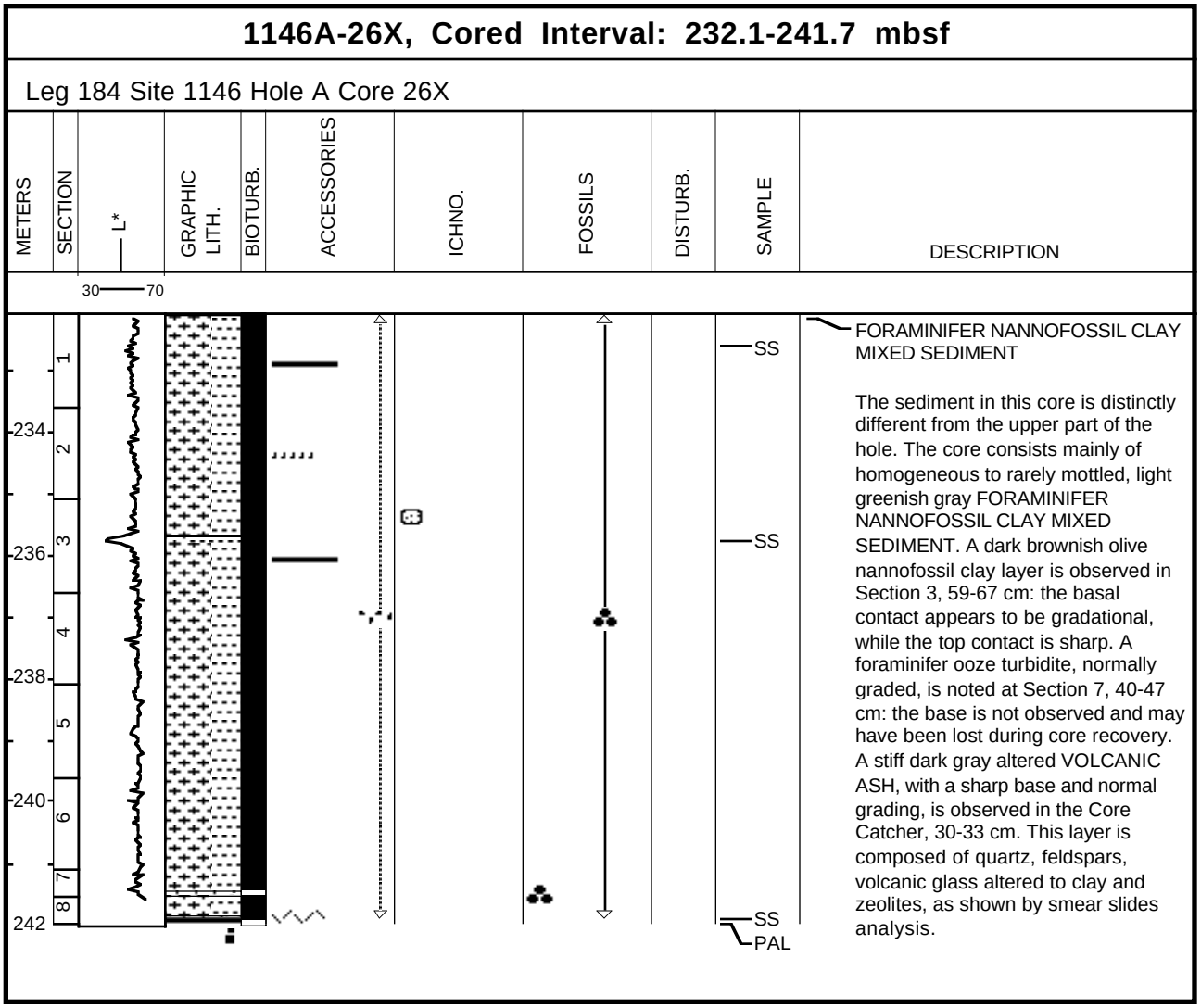

1146A-23X, Cored Interval: 203.0-212.7 mbsf
Leg 184 Site 1146 Hole A Core 23X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
204
206
208
210
212
1
2
3
4
5
6
7
CC
Py
Py'
SS
PAL
NANNOFOSSIL CLAY
The core comprises light greenish gray NANNOFOSSIL CLAY. There are common foraminifers which become abundant over short intervals, marked by lighter color and higher carbonate content. The carbonate-rich intervals have a gradational transition with the surrounding clay-rich NANNOFOSSIL CLAY. A small concretion of pyritized foraminifers is noted at Section 2, 86 cm. Rare dark layers, 5-10 mm thick show preferential development of pyrite.

Core Photo

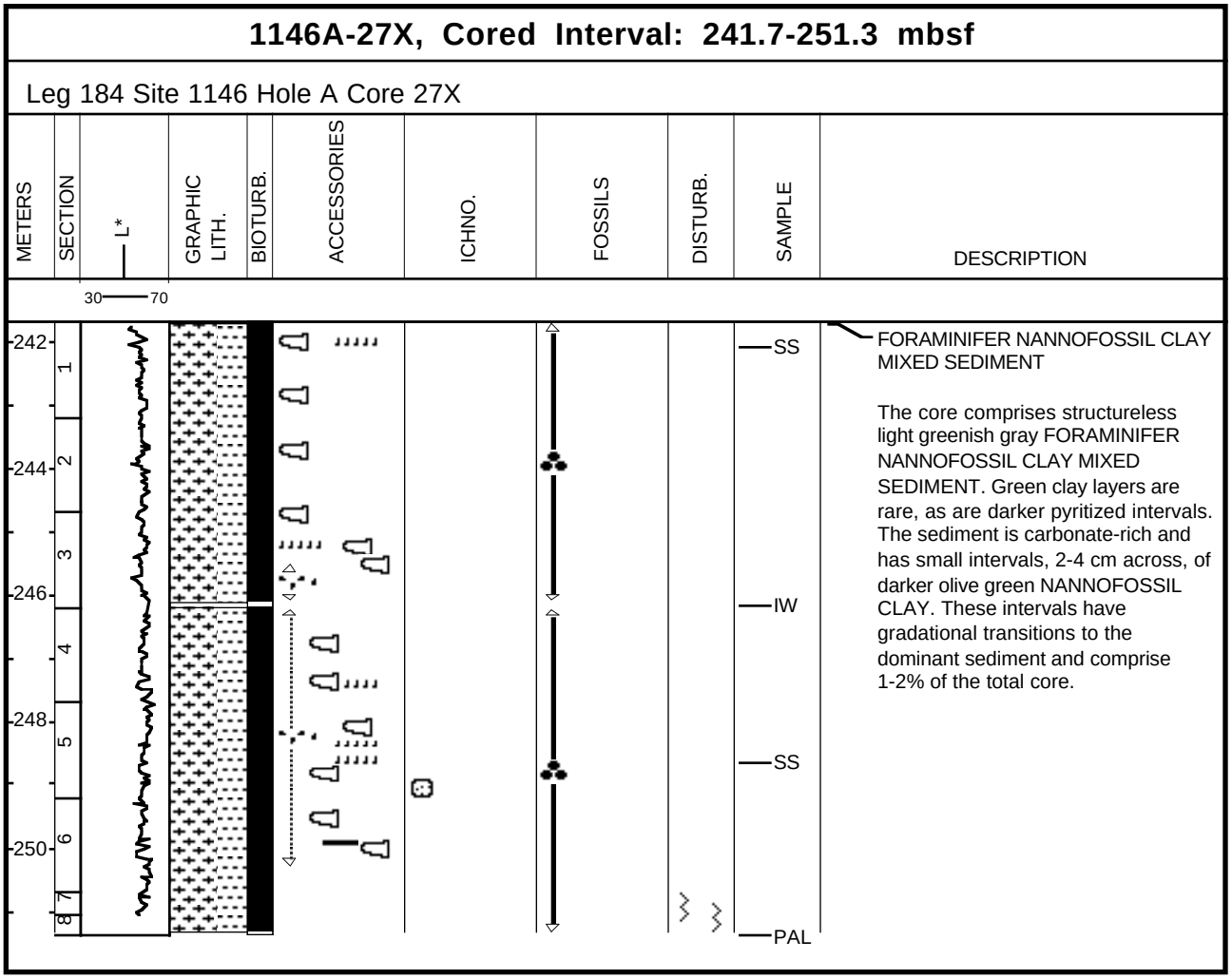


1146A-25X NO RECOVERY

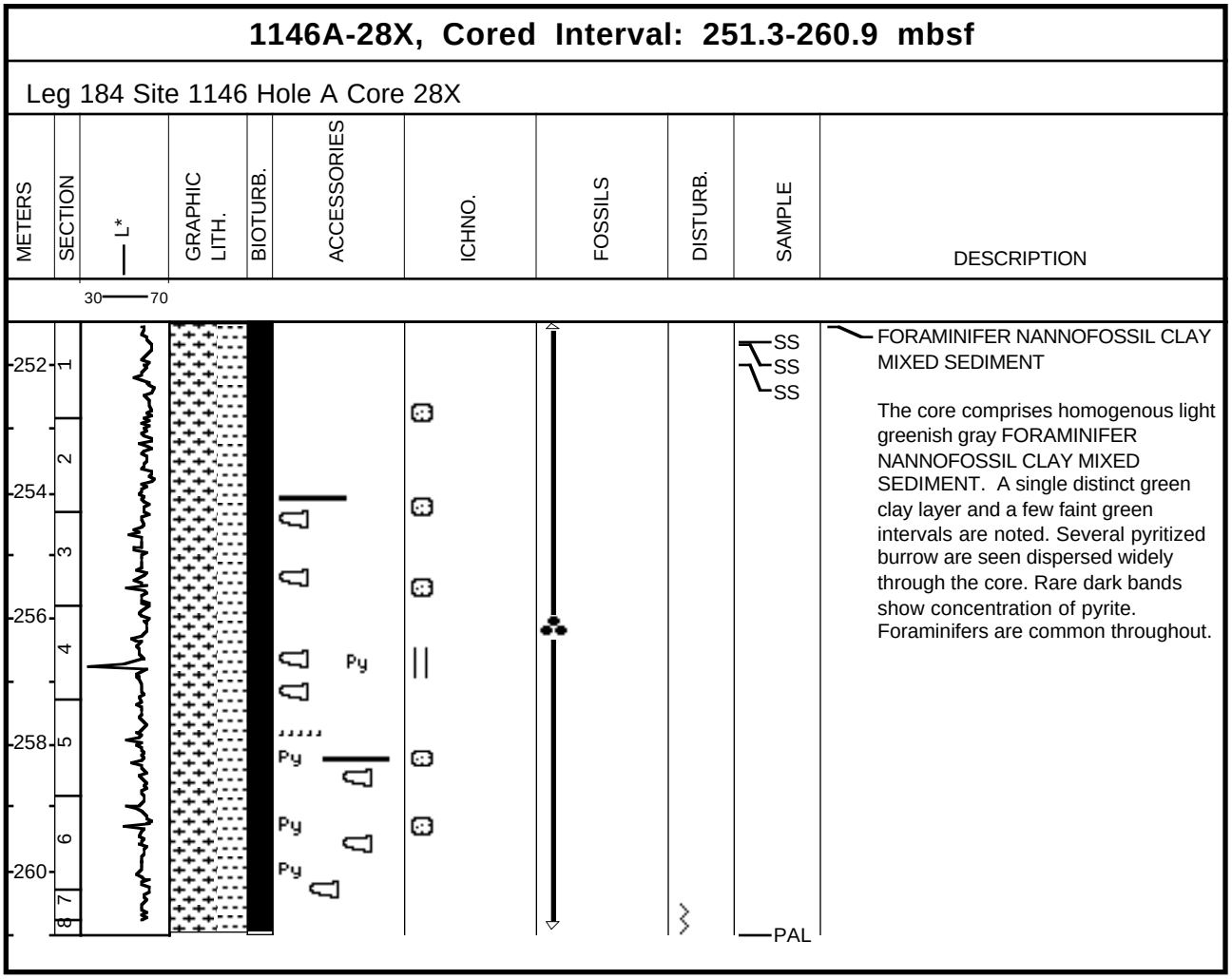
Core Photo


1146A-26X, Cored Interval: 232.1-241.7 mbsf
Leg 184 Site 1146 Hole A Core 26X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
234
236
238
240
242
1
2
3
4
5
6
7
8
SS
SS
SS
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The sediment in this core is distinctly different from the upper part of the hole. The core consists mainly of homogeneous to rarely mottled, light greenish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. A dark brownish olive nannofossil clay layer is observed in Section 3, 59-67 cm: the basal contact appears to be gradational, while the top contact is sharp. A foraminifer ooze turbidite, normally graded, is noted at Section 7, 40-47 cm: the base is not observed and may have been lost during core recovery. A stiff dark gray altered VOLCANIC ASH, with a sharp base and normal grading, is observed in the Core Catcher, 30-33 cm. This layer is composed of quartz, feldspars, volcanic glass altered to clay and zeolites, as shown by smear slides analysis.

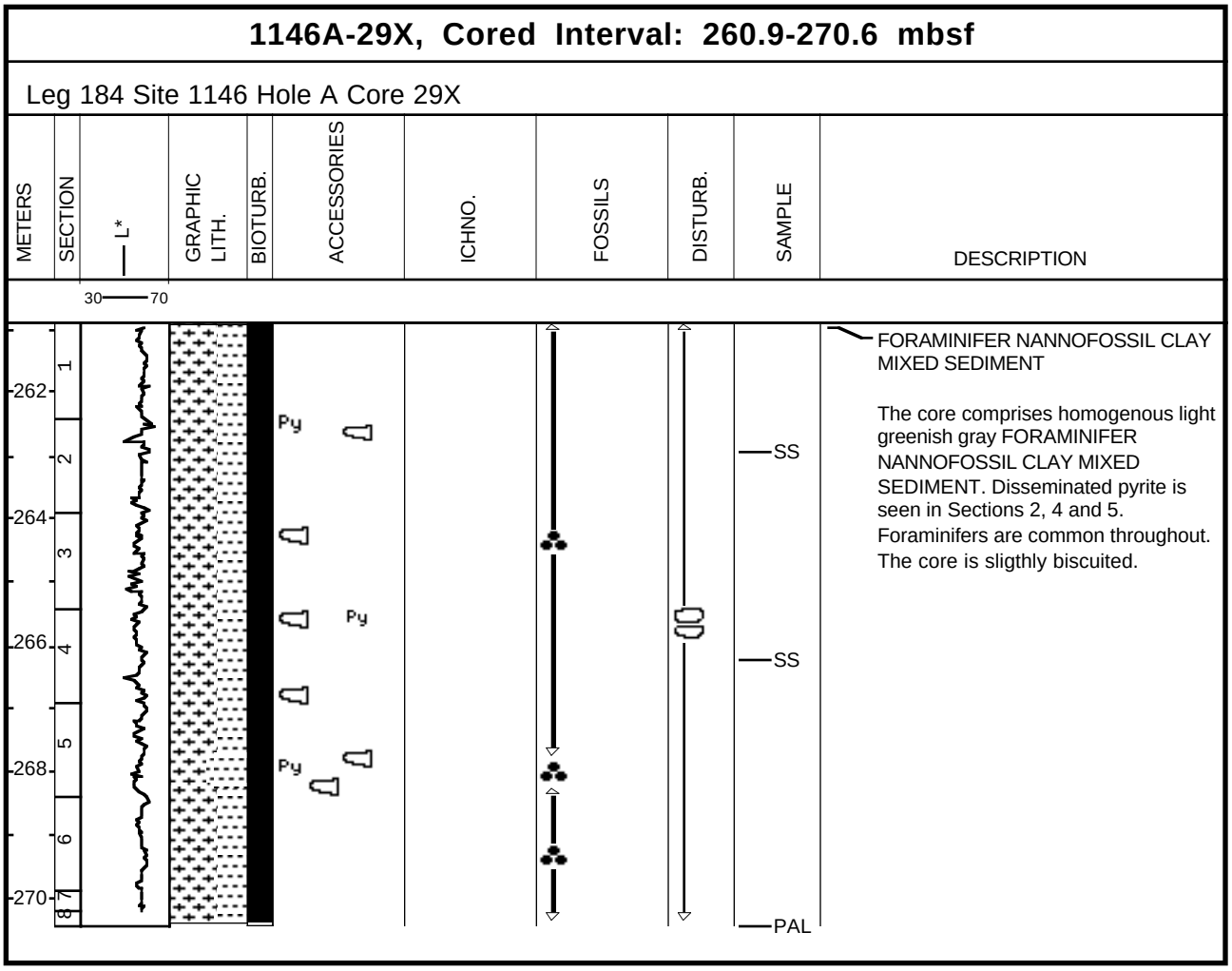
Core Photo


1146A-27X, Cored Interval: 241.7-251.3 mbsf
Leg 184 Site 1146 Hole A Core 27X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
242
244
246
248
250
1
2
3
4
5
6
7
8
SS
IW
SS
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core comprises structureless light greenish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. Green clay layers are rare, as are darker pyritized intervals. The sediment is carbonate-rich and has small intervals, 2-4 cm across, of darker olive green NANNOFOSSIL CLAY. These intervals have gradational transitions to the dominant sediment and comprise 1-2% of the total core.

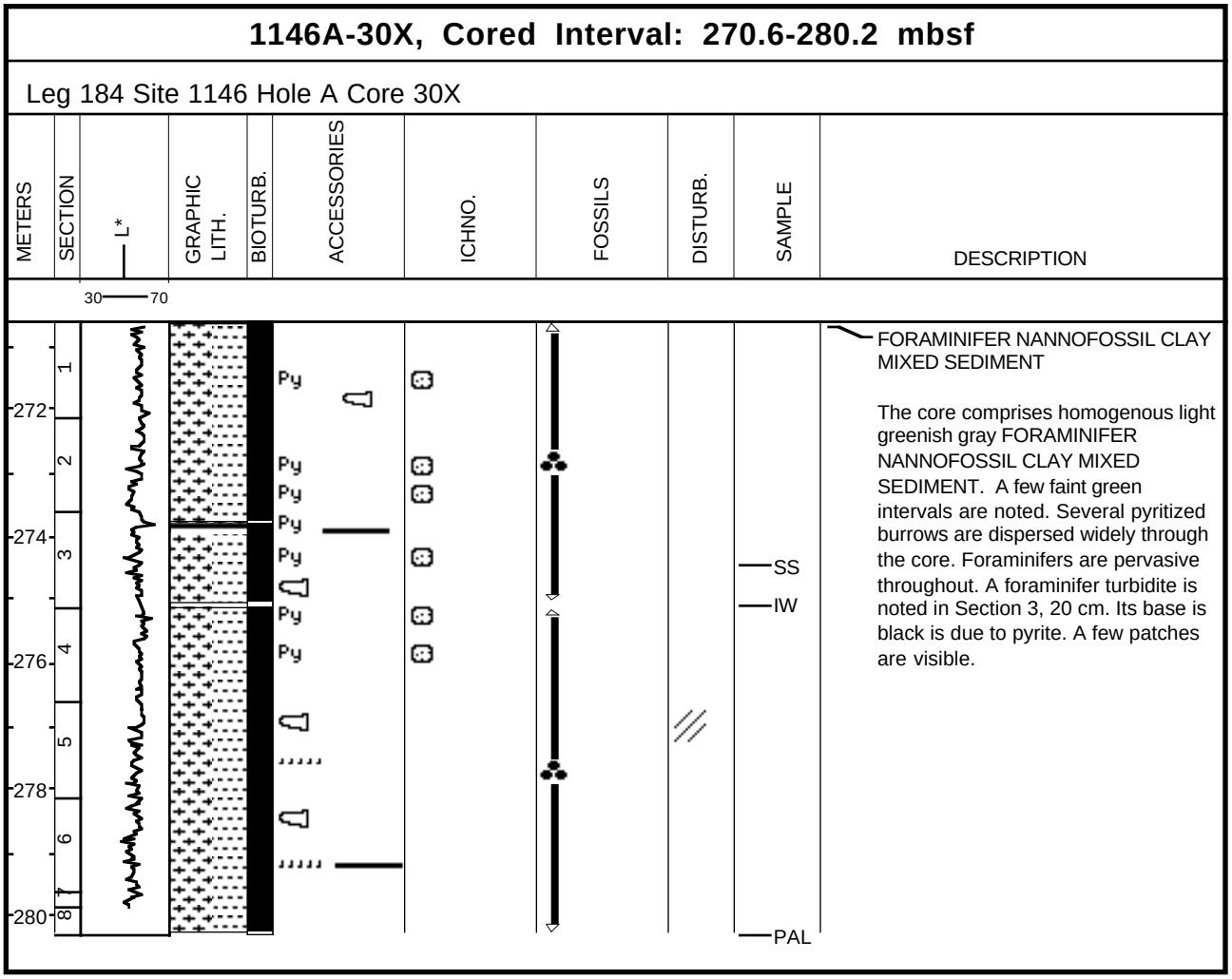
Core Photo


1146A-28X, Cored Interval: 251.3-260.9 mbsf
Leg 184 Site 1146 Hole A Core 28X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
252
254
256
258
260
1
2
3
4
5
6
7
Py
Py
Py
SS
SS
SS
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core comprises homogenous light greenish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. A single distinct green clay layer and a few faint green intervals are noted. Several pyritized burrow are seen dispersed widely through the core. Rare dark bands show concentration of pyrite. Foraminifers are common throughout.

Core Photo


1146A-29X, Cored Interval: 260.9-270.6 mbsf
Leg 184 Site 1146 Hole A Core 29X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
262
264
266
268
270
1
2
3
4
5
6
7
Py
Py
Py
SS
SS
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core comprises homogenous light greenish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. Disseminated pyrite is seen in Sections 2, 4 and 5. Foraminifers are common throughout. The core is sligthly biscuited.

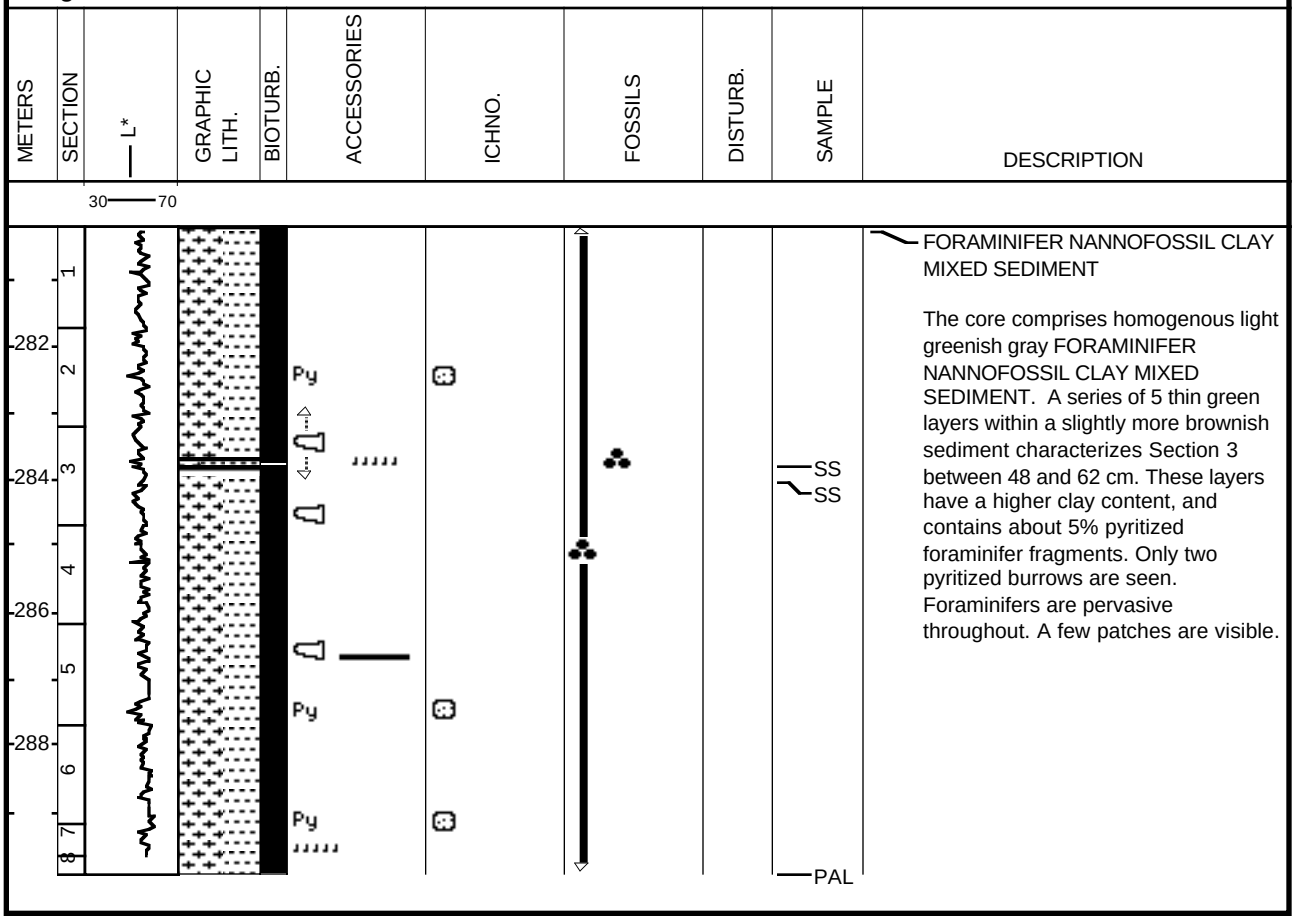
Core Photo


1146A-30X, Cored Interval: 270.6-280.2 mbsf
Leg 184 Site 1146 Hole A Core 30X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
272
274
276
278
280
1
2
3
4
5
6
7
8
Py
SS
IW
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core comprises homogenous light greenish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. A few faint green intervals are noted. Several pyritized burrows are dispersed widely through the core. Foraminifers are pervasive throughout. A foraminifer turbidite is noted in Section 3, 20 cm. Its base is black is due to pyrite. A few patches are visible.

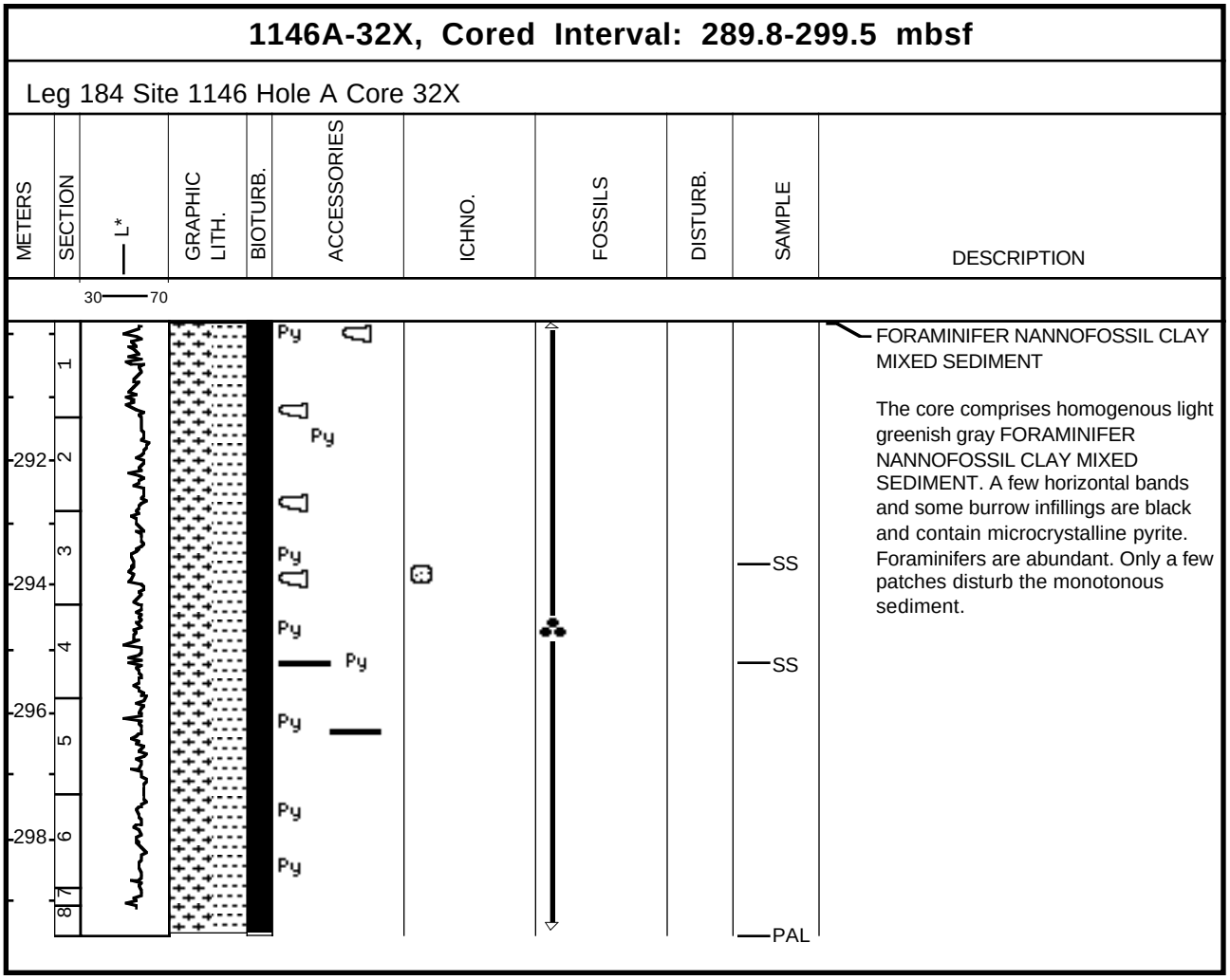
Core Photo

1146A-31X, Cored Inteval: 280.2-289.8 mbsf

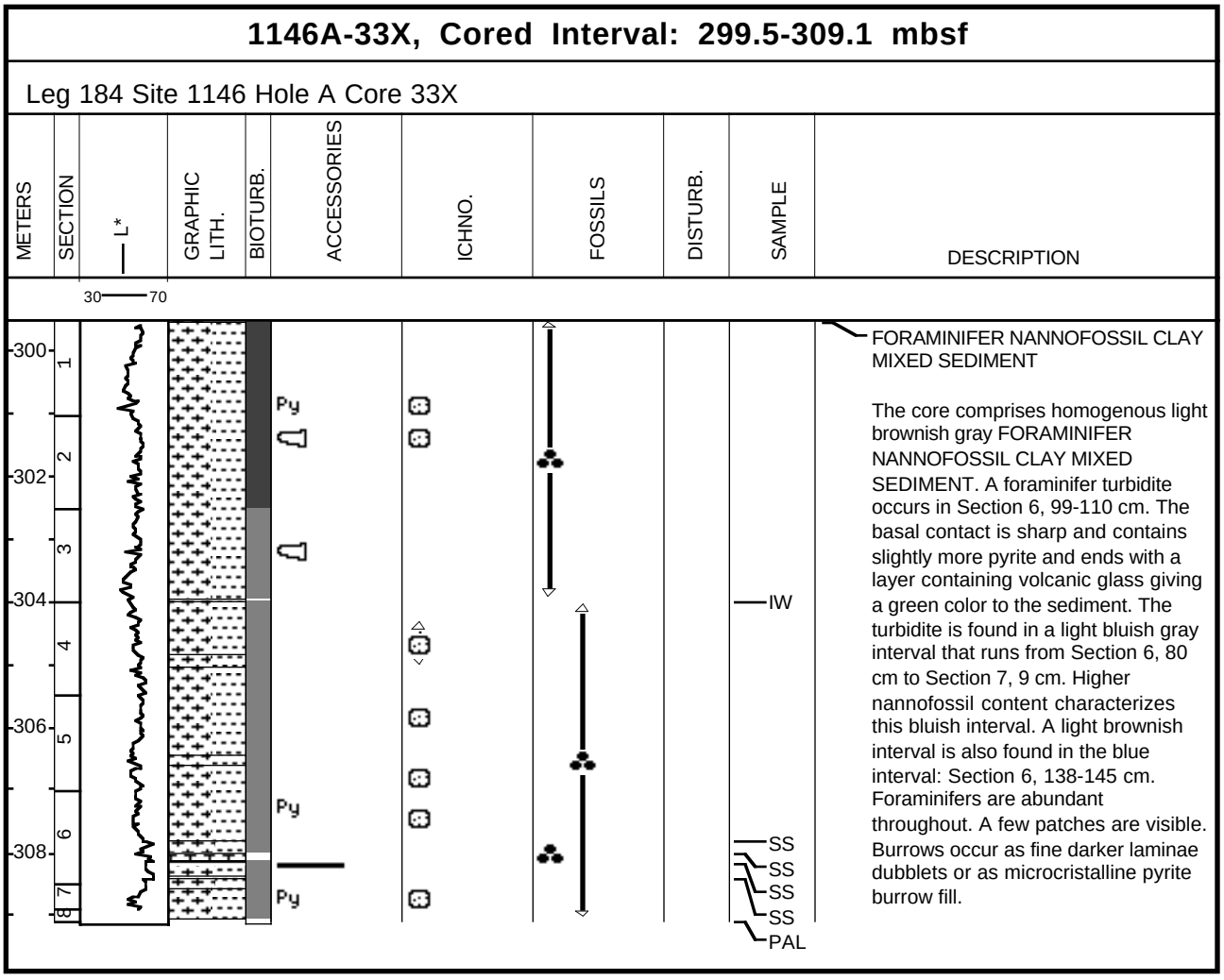
Leg 184 Site 1146 Hole A Core 31X



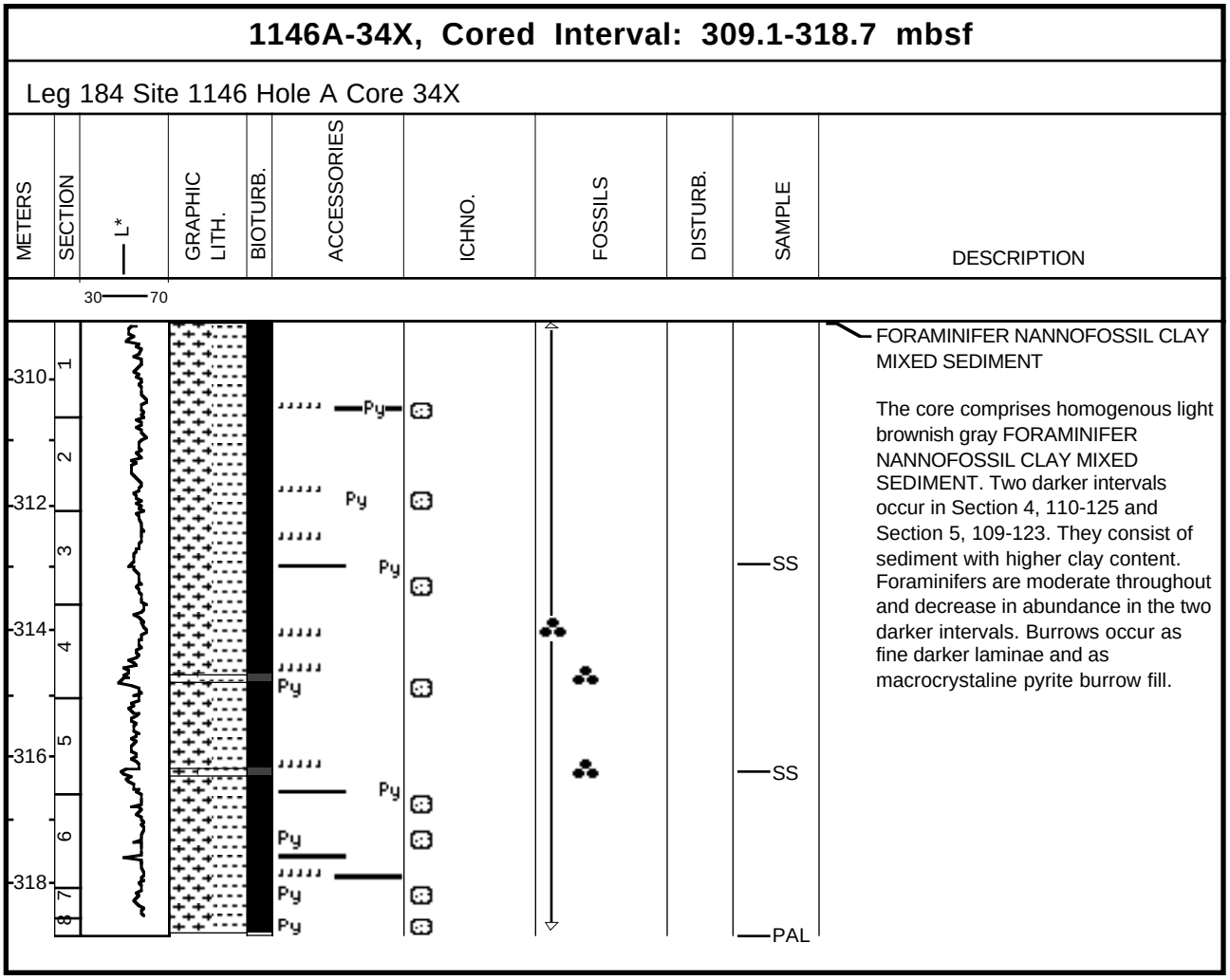
Core Photo


1146A-32X, Cored Interval: 289.8-299.5 mbsf
Leg 184 Site 1146 Hole A Core 32X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
292
294
296
298
1
2
3
4
5
6
7
8
Py
SS
SS
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core comprises homogenous light greenish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. A few horizontal bands and some burrow infillings are black and contain microcrystalline pyrite. Foraminifers are abundant. Only a few patches disturb the monotonous sediment.

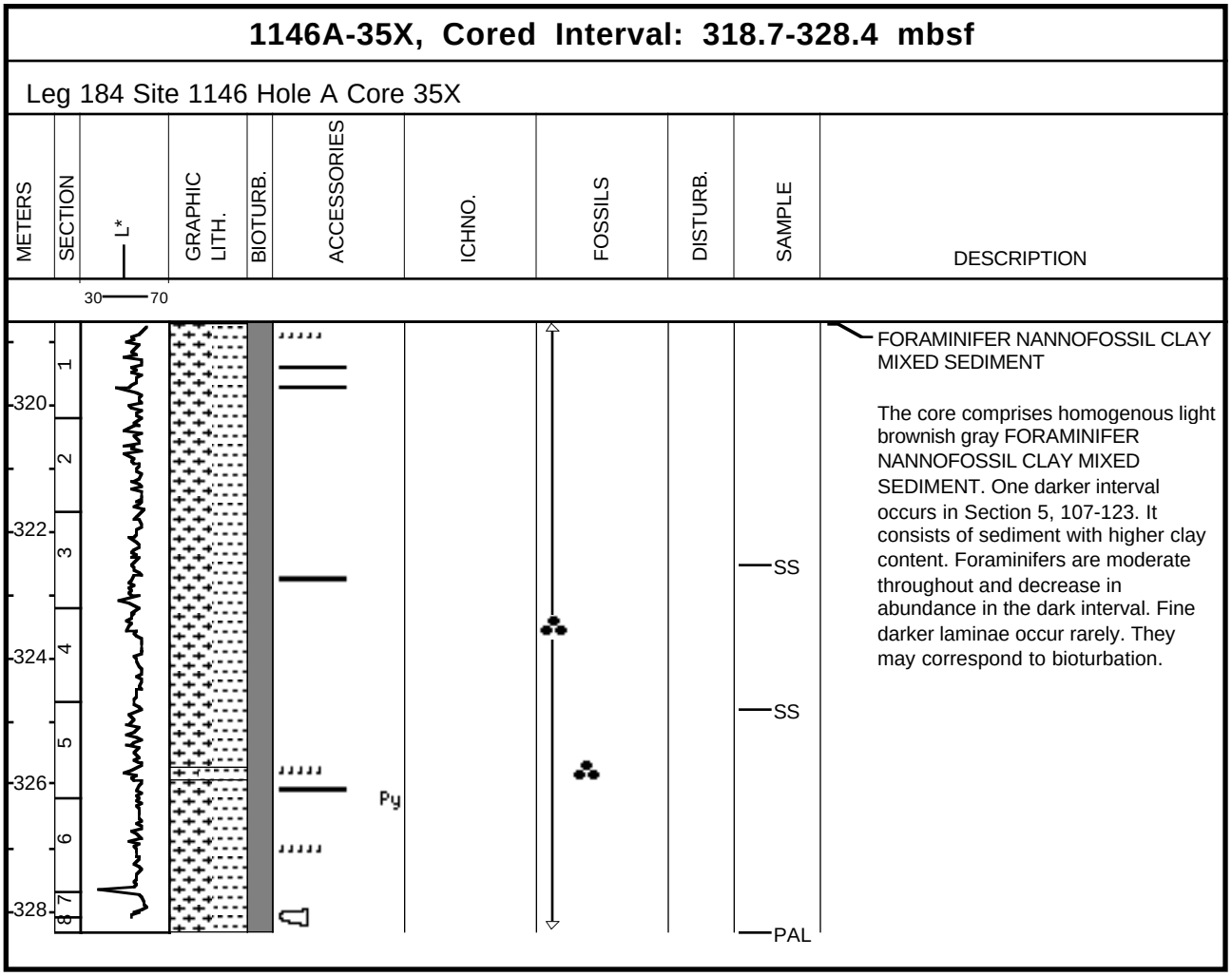
Core Photo


1146A-33X, Cored Interval: 299.5-309.1 mbsf
Leg 184 Site 1146 Hole A Core 33X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
300
302
304
306
308
1
2
3
4
5
6
7
Py
Py
Py
IW
SS
SS
SS
SS
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core comprises homogenous light brownish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. A foraminifer turbidite occurs in Section 6, 99-110 cm. The basal contact is sharp and contains slightly more pyrite and ends with a layer containing volcanic glass giving a green color to the sediment. The turbidite is found in a light bluish gray interval that runs from Section 6, 80 cm to Section 7, 9 cm. Higher nannofossil content characterizes this bluish interval. A light brownish interval is also found in the blue interval: Section 6, 138-145 cm. Foraminifers are abundant throughout. A few patches are visible. Burrows occur as fine darker laminae dubblets or as microcristalline pyrite burrow fill.

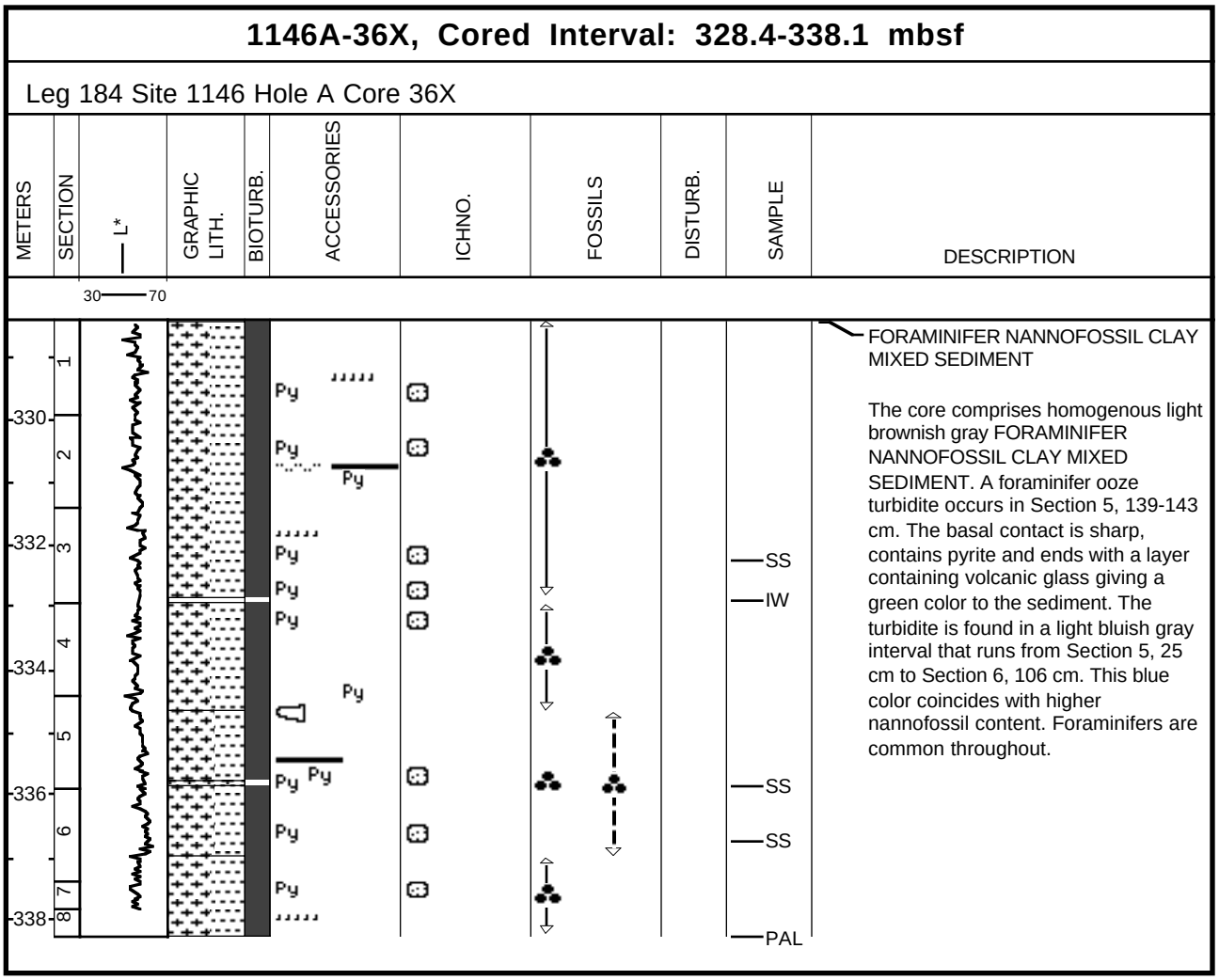
Core Photo


1146A-34X, Cored Interval: 309.1-318.7 mbsf
Leg 184 Site 1146 Hole A Core 34X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
310
312
314
316
318
1
2
3
4
5
6
7
Py
SS
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core comprises homogenous light brownish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. Two darker intervals occur in Section 4, 110-125 and Section 5, 109-123. They consist of sediment with higher clay content. Foraminifers are moderate throughout and decrease in abundance in the two darker intervals. Burrows occur as fine darker laminae and as macrocrystaline pyrite burrow fill.

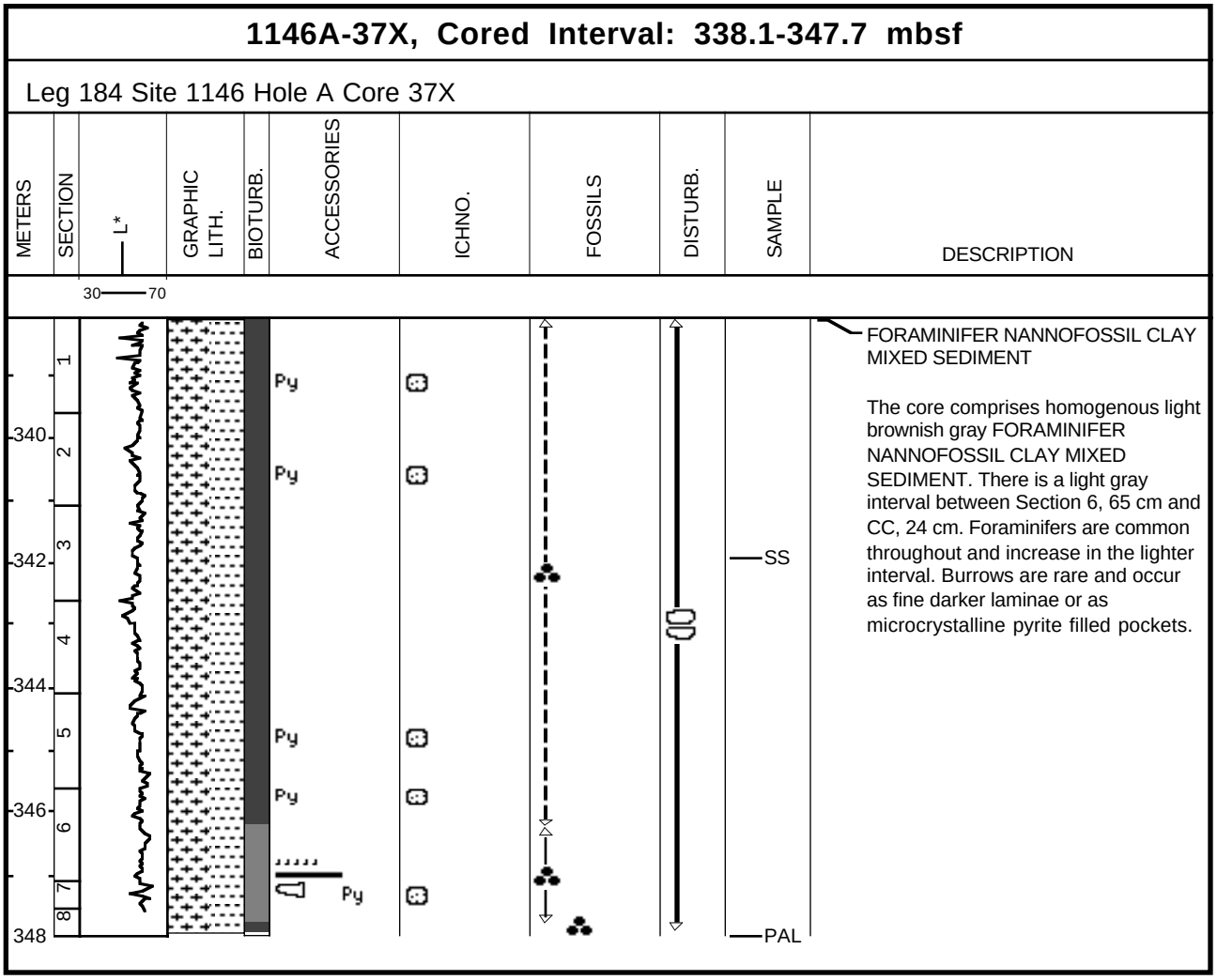
Core Photo


1146A-35X, Cored Interval: 318.7-328.4 mbsf
Leg 184 Site 1146 Hole A Core 35X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
320
322
324
326
328
1
2
3
4
5
6
7
Py
SS
SS
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core comprises homogenous light brownish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. One darker interval occurs in Section 5, 107-123. It consists of sediment with higher clay content. Foraminifers are moderate throughout and decrease in abundance in the dark interval. Fine darker laminae occur rarely. They may correspond to bioturbation.

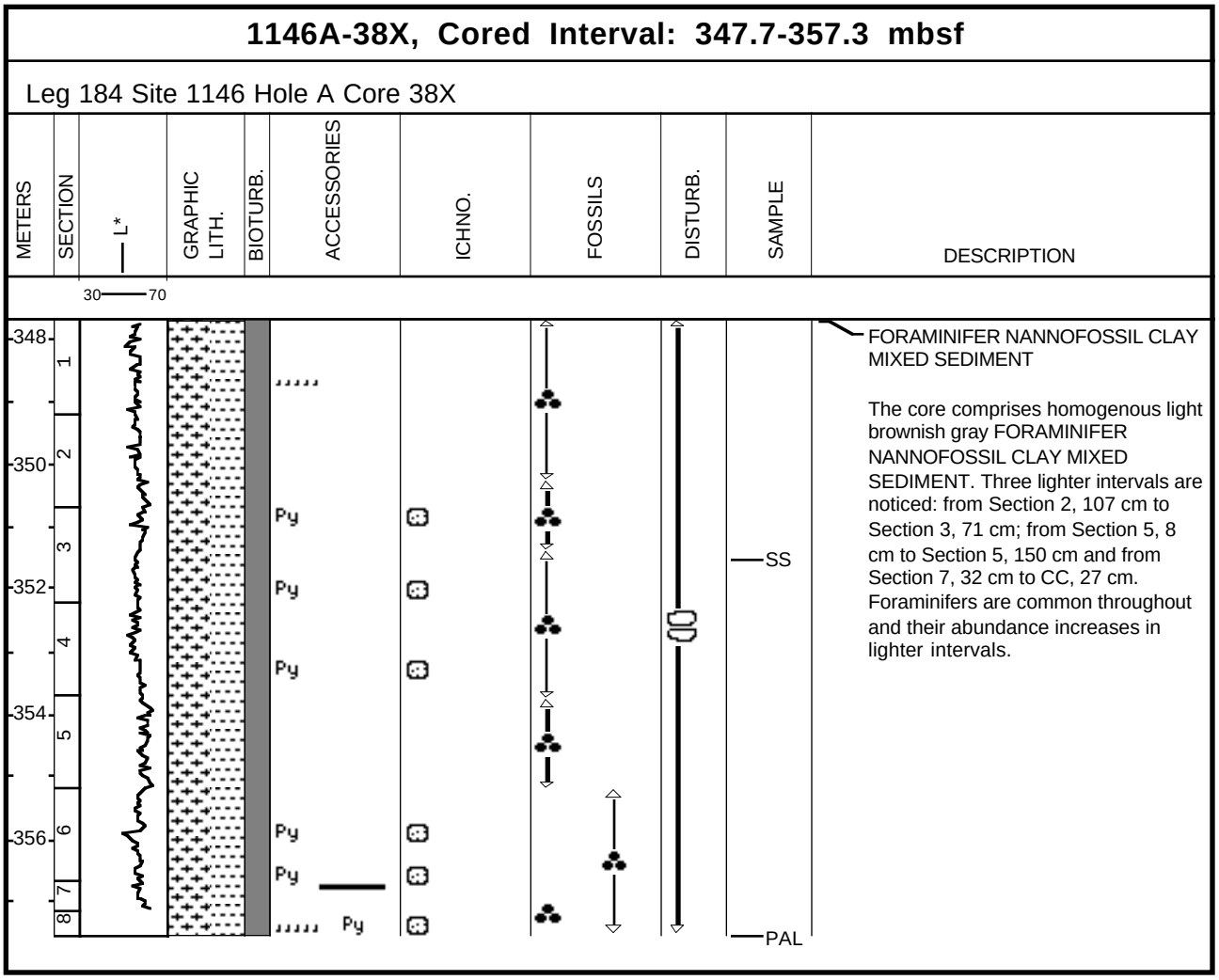
Core Photo


1146A-36X, Cored Interval: 328.4-338.1 mbsf
Leg 184 Site 1146 Hole A Core 36X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
330
332
334
336
338
1
2
3
4
5
6
7
8
Py
SS
IW
SS
SS
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core comprises homogenous light brownish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. A foraminifer ooze turbidite occurs in Section 5, 139-143 cm. The basal contact is sharp, contains pyrite and ends with a layer containing volcanic glass giving a green color to the sediment. The turbidite is found in a light bluish gray interval that runs from Section 5, 25 cm to Section 6, 106 cm. This blue color coincides with higher nannofossil content. Foraminifers are common throughout.

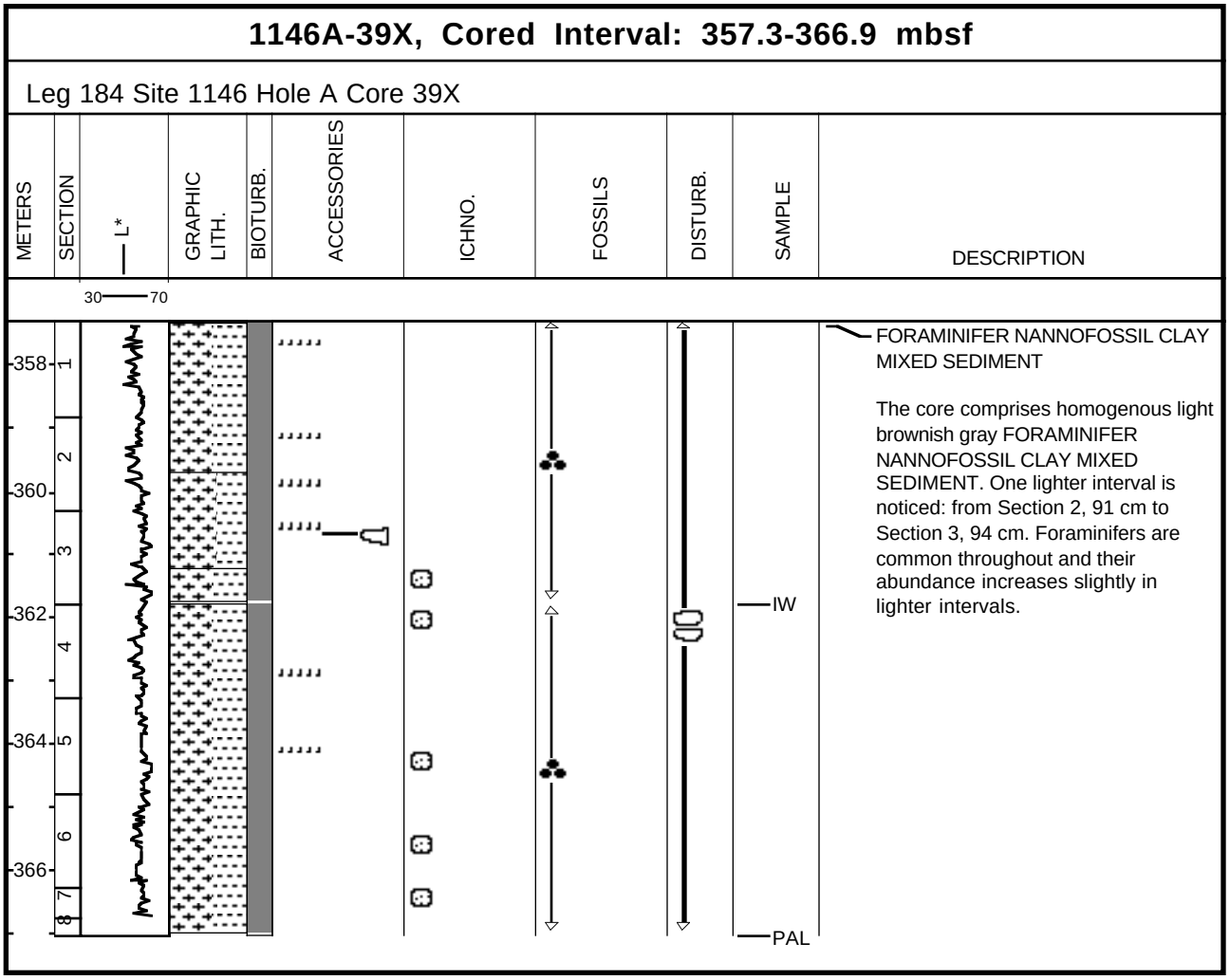
Core Photo


1146A-37X, Cored Interval: 338.1-347.7 mbsf
Leg 184 Site 1146 Hole A Core 37X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
340
342
344
346
348
1
2
3
4
5
6
7
8
Py
Py
Py
Py
Py
SS
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core comprises homogenous light brownish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. There is a light gray interval between Section 6, 65 cm and CC, 24 cm. Foraminifers are common throughout and increase in the lighter interval. Burrows are rare and occur as fine darker laminae or as microcrystalline pyrite filled pockets.

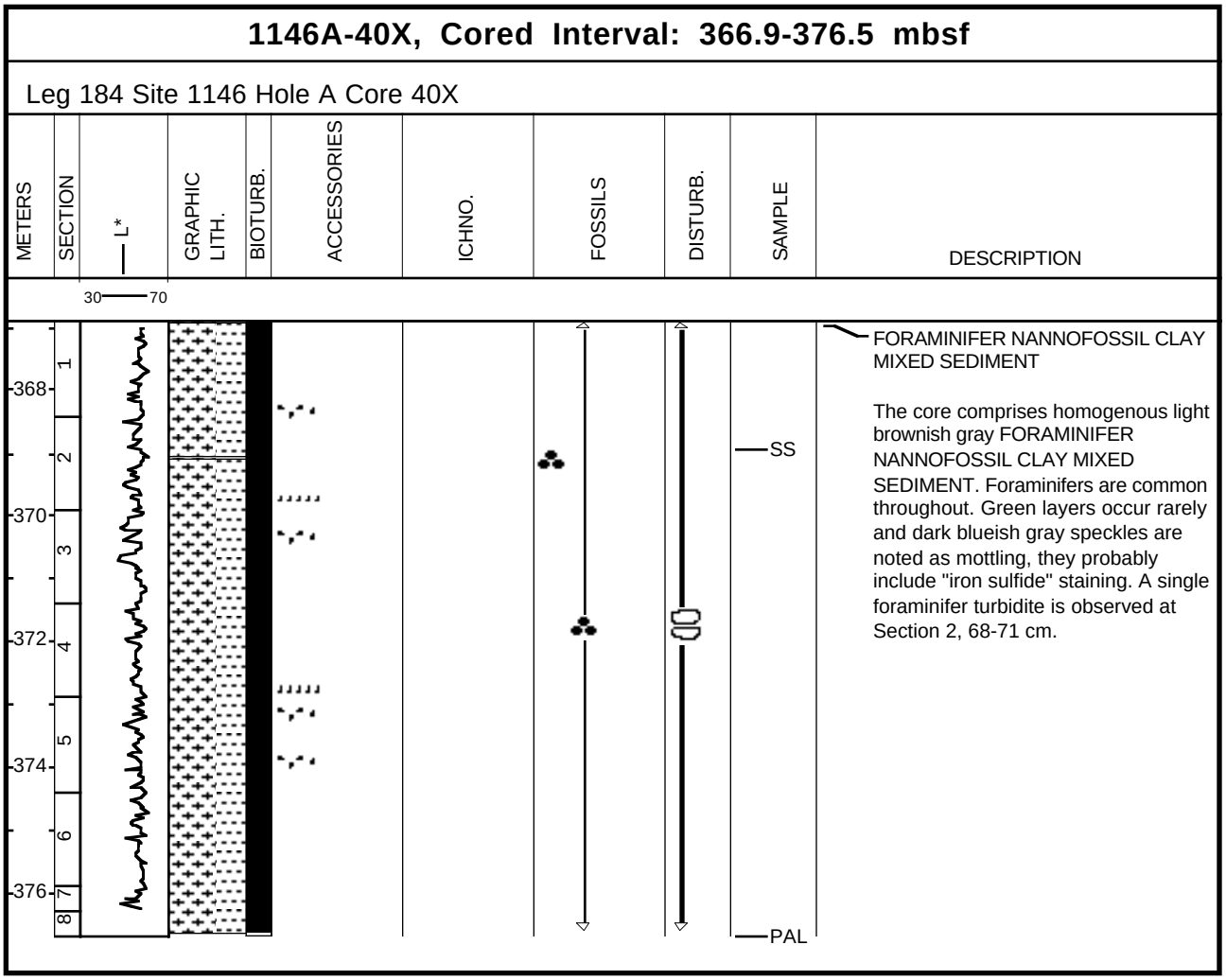
Core Photo


1146A-38X, Cored Interval: 347.7-357.3 mbsf
Leg 184 Site 1146 Hole A Core 38X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
348
350
352
354
356
1
2
3
4
5
6
7
8
Py
Py
Py
Py
Py
SS
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core comprises homogenous light brownish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. Three lighter intervals are noticed: from Section 2, 107 cm to Section 3, 71 cm; from Section 5, 8 cm to Section 5, 150 cm and from Section 7, 32 cm to CC, 27 cm. Foraminifers are common throughout and their abundance increases in lighter intervals.

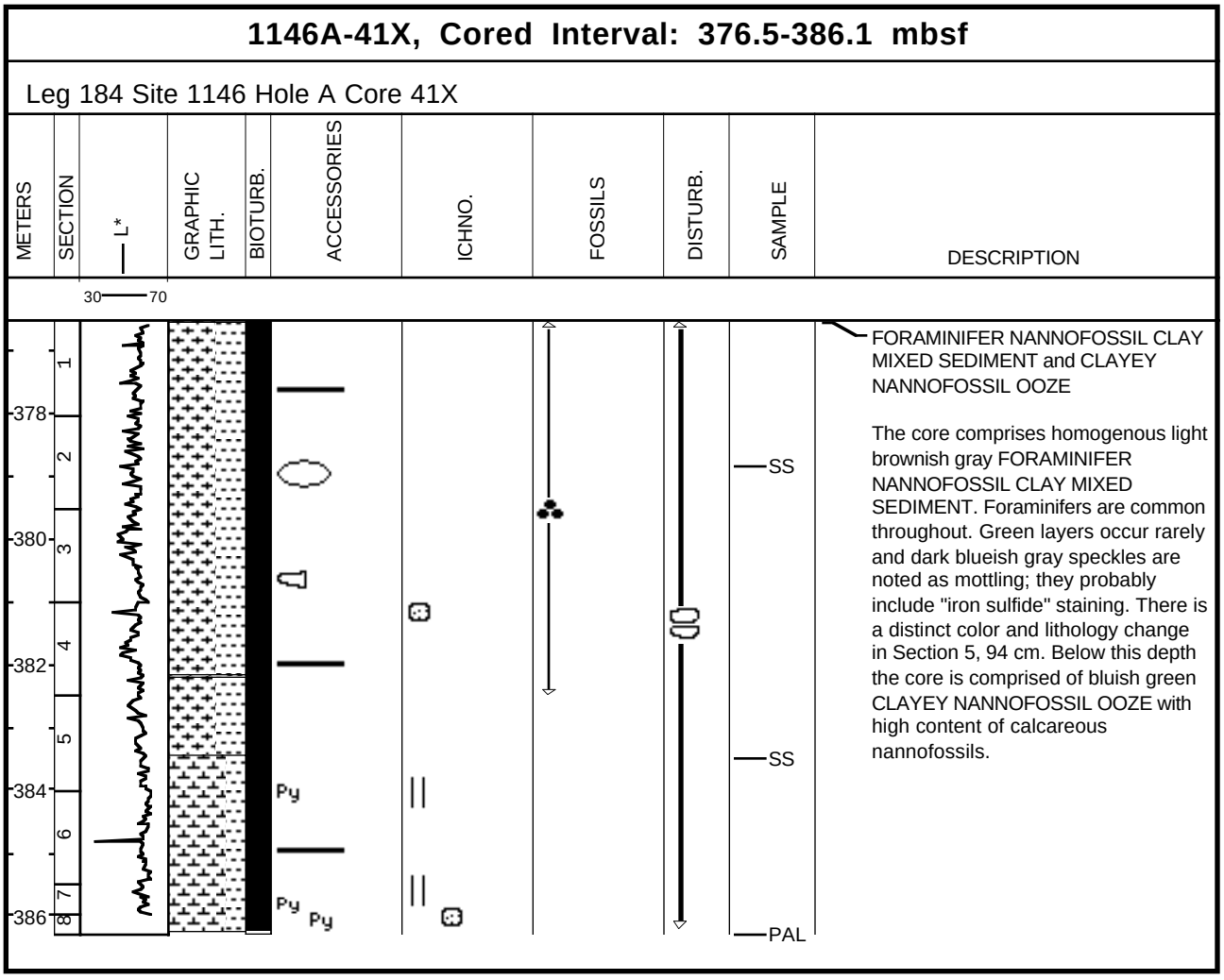
Core Photo


1146A-39X, Cored Interval: 357.3-366.9 mbsf
Leg 184 Site 1146 Hole A Core 39X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
358
360
362
364
366
1
2
3
4
5
6
7
IW
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core comprises homogenous light brownish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. One lighter interval is noticed: from Section 2, 91 cm to Section 3, 94 cm. Foraminifers are common throughout and their abundance increases slightly in lighter intervals.

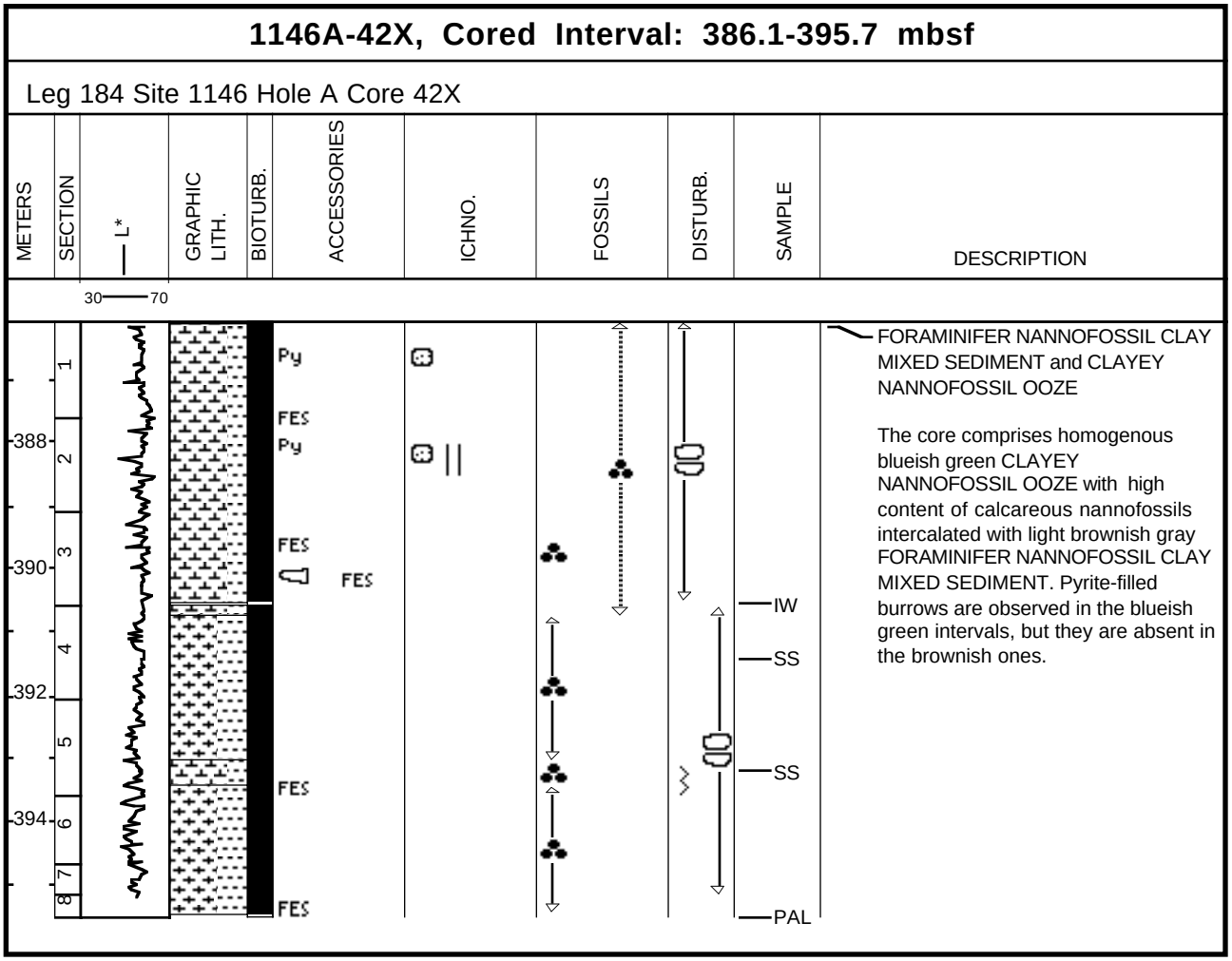
Core Photo


1146A-40X, Cored Interval: 366.9-376.5 mbsf
Leg 184 Site 1146 Hole A Core 40X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
368
370
372
374
376
1
2
3
4
5
6
7
8
SS
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core comprises homogenous light brownish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. Foraminifers are common throughout. Green layers occur rarely and dark blueish gray speckles are noted as mottling, they probably include "iron sulfide" staining. A single foraminifer turbidite is observed at Section 2, 68-71 cm.

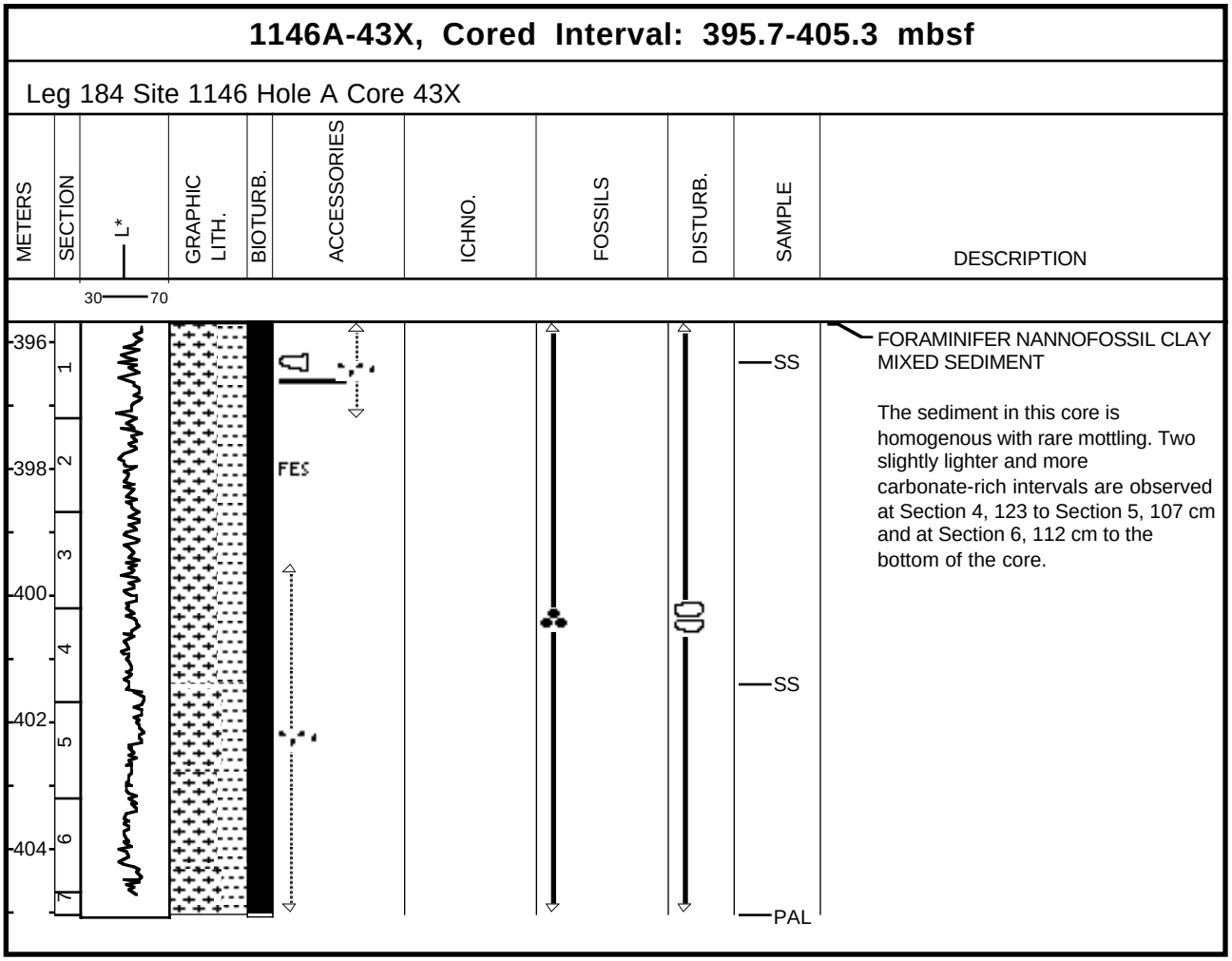
Core Photo


1146A-41X, Cored Interval: 376.5-386.1 mbsf
Leg 184 Site 1146 Hole A Core 41X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
378
380
382
384
386
1
2
3
4
5
6
7
8
Py
Py
Py
SS
SS
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT and CLAYEY NANNOFOSSIL OOZE
The core comprises homogenous light brownish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. Foraminifers are common throughout. Green layers occur rarely and dark blueish gray speckles are noted as mottling; they probably include "iron sulfide" staining. There is a distinct color and lithology change in Section 5, 94 cm. Below this depth the core is comprised of bluish green CLAYEY NANNOFOSSIL OOZE with high content of calcareous nannofossils.

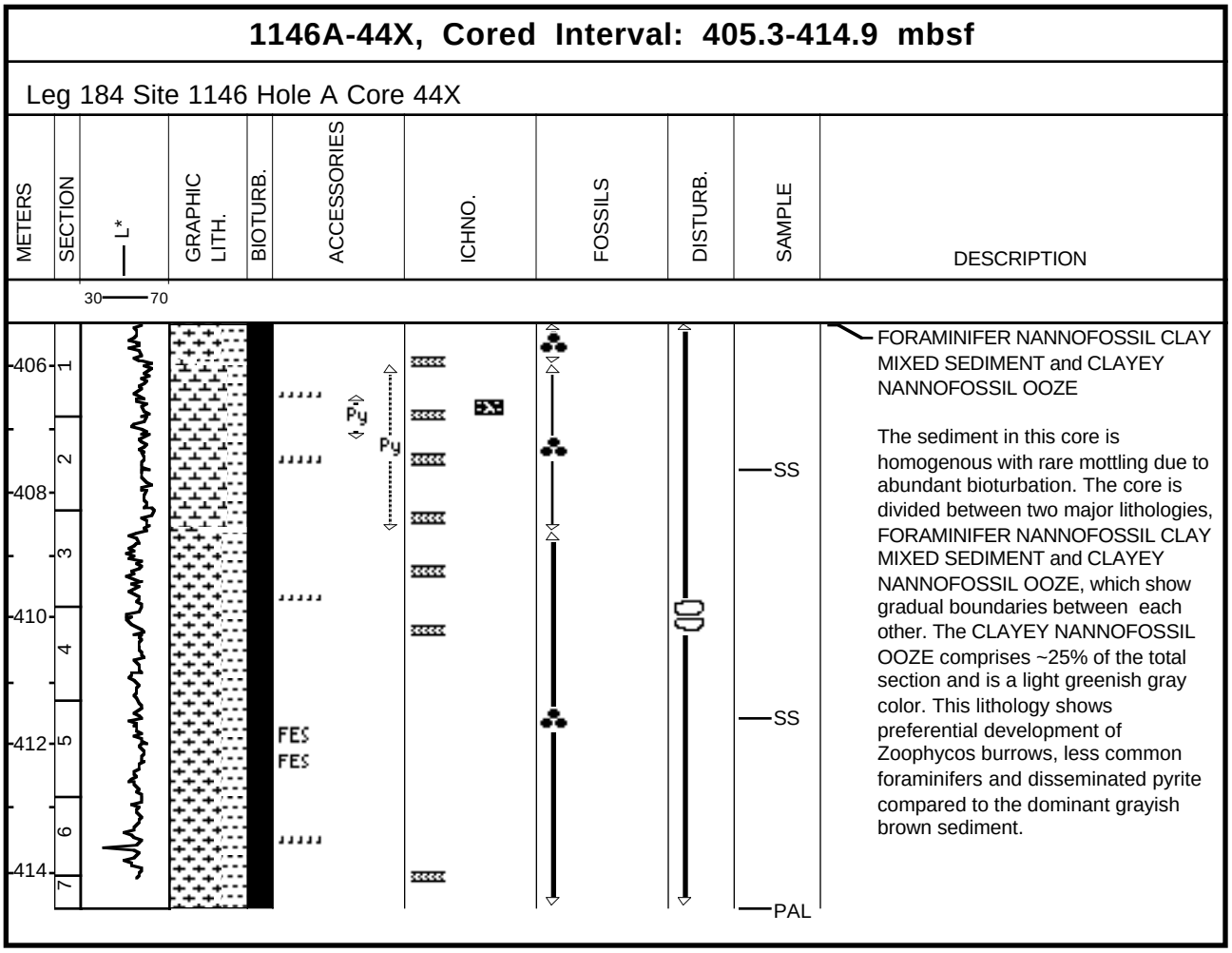
Core Photo


1146A-42X, Cored Interval: 386.1-395.7 mbsf
Leg 184 Site 1146 Hole A Core 42X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
388
390
392
394
1
2
3
4
5
6
7
8
Py
FES
Py
FES
FES
FES
FES
IW
SS
SS
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT and CLAYEY NANNOFOSSIL OOZE
The core comprises homogenous blueish green CLAYEY NANNOFOSSIL OOZE with high content of calcareous nannofossils intercalated with light brownish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. Pyrite-filled burrows are observed in the blueish green intervals, but they are absent in the brownish ones.

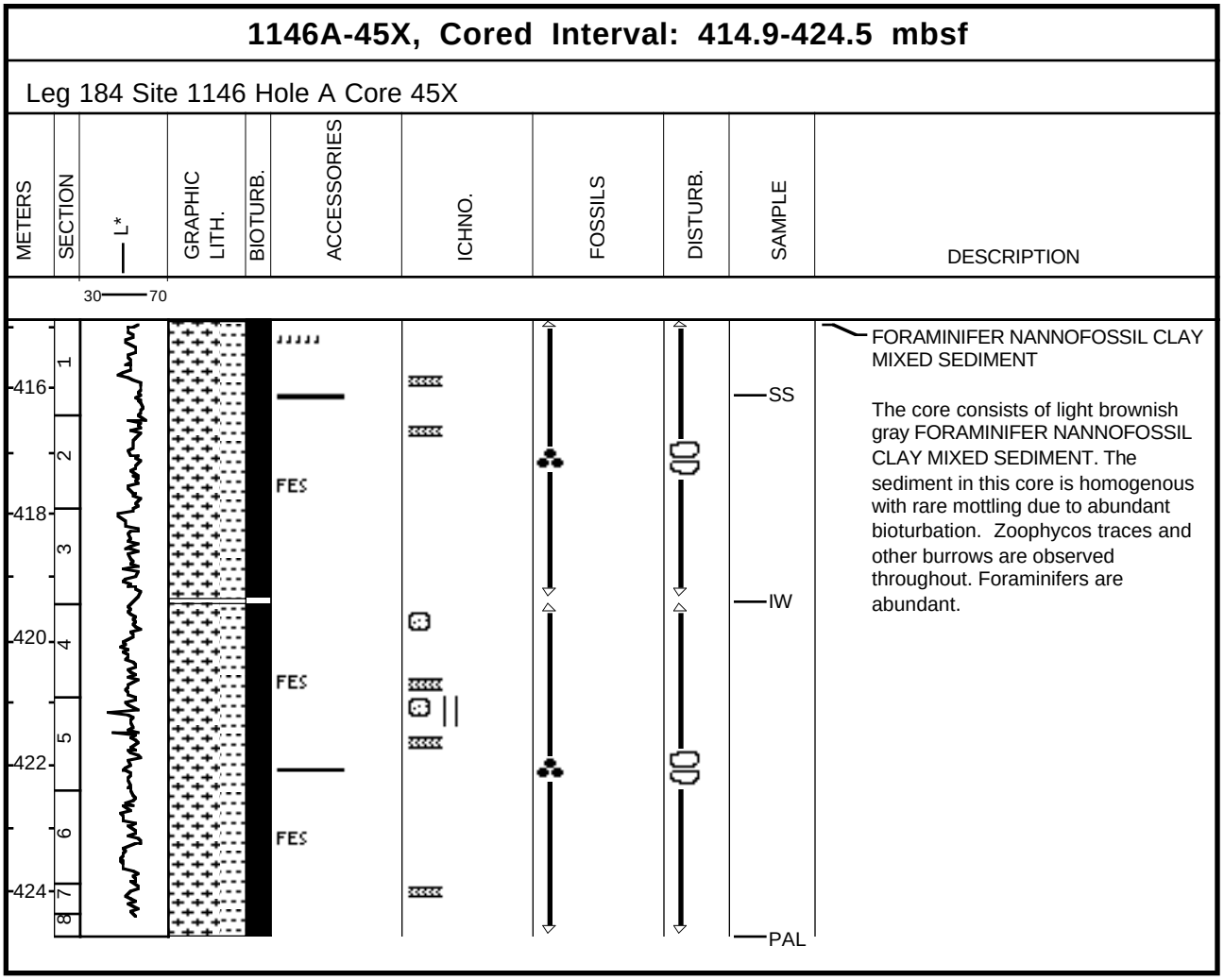
Core Photo


1146A-43X, Cored Interval: 395.7-405.3 mbsf
Leg 184 Site 1146 Hole A Core 43X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
396
398
400
402
404
1
2
3
4
5
6
7
FES
SS
SS
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The sediment in this core is homogenous with rare mottling. Two slightly lighter and more carbonate-rich intervals are observed at Section 4, 123 to Section 5, 107 cm and at Section 6, 112 cm to the bottom of the core.

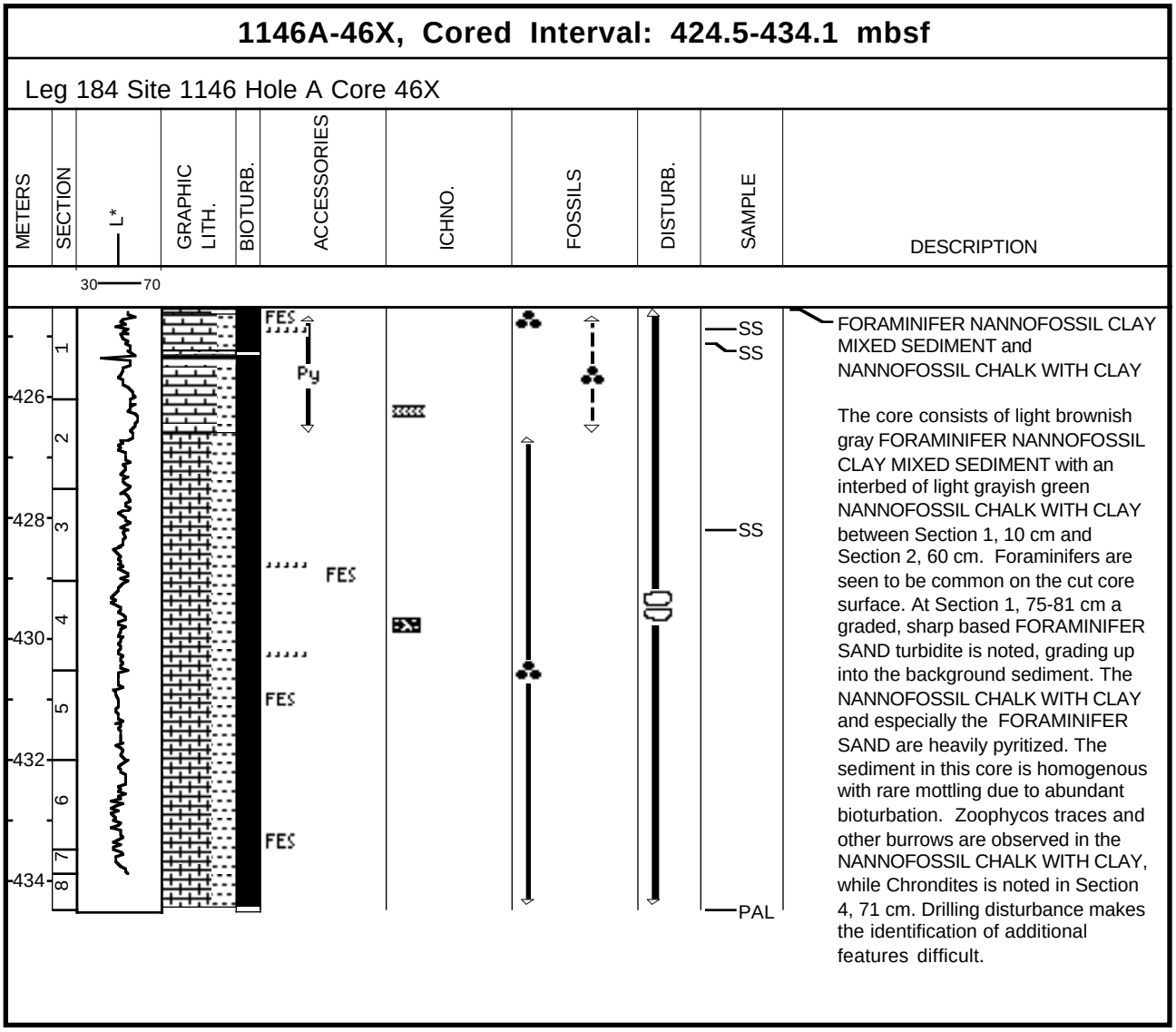
Core Photo


1146A-44X, Cored Interval: 405.3-414.9 mbsf
Leg 184 Site 1146 Hole A Core 44X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
406
408
410
412
414
1
2
3
4
5
6
7
Py
Py
FES
FES
SS
SS
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT and CLAYEY NANNOFOSSIL OOZE
The sediment in this core is homogenous with rare mottling due to abundant bioturbation. The core is divided between two major lithologies, FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT and CLAYEY NANNOFOSSIL OOZE, which show gradual boundaries between each other. The CLAYEY NANNOFOSSIL OOZE comprises ~25% of the total section and is a light greenish gray color. This lithology shows preferential development of Zoophycos burrows, less common foraminifers and disseminated pyrite compared to the dominant grayish brown sediment.

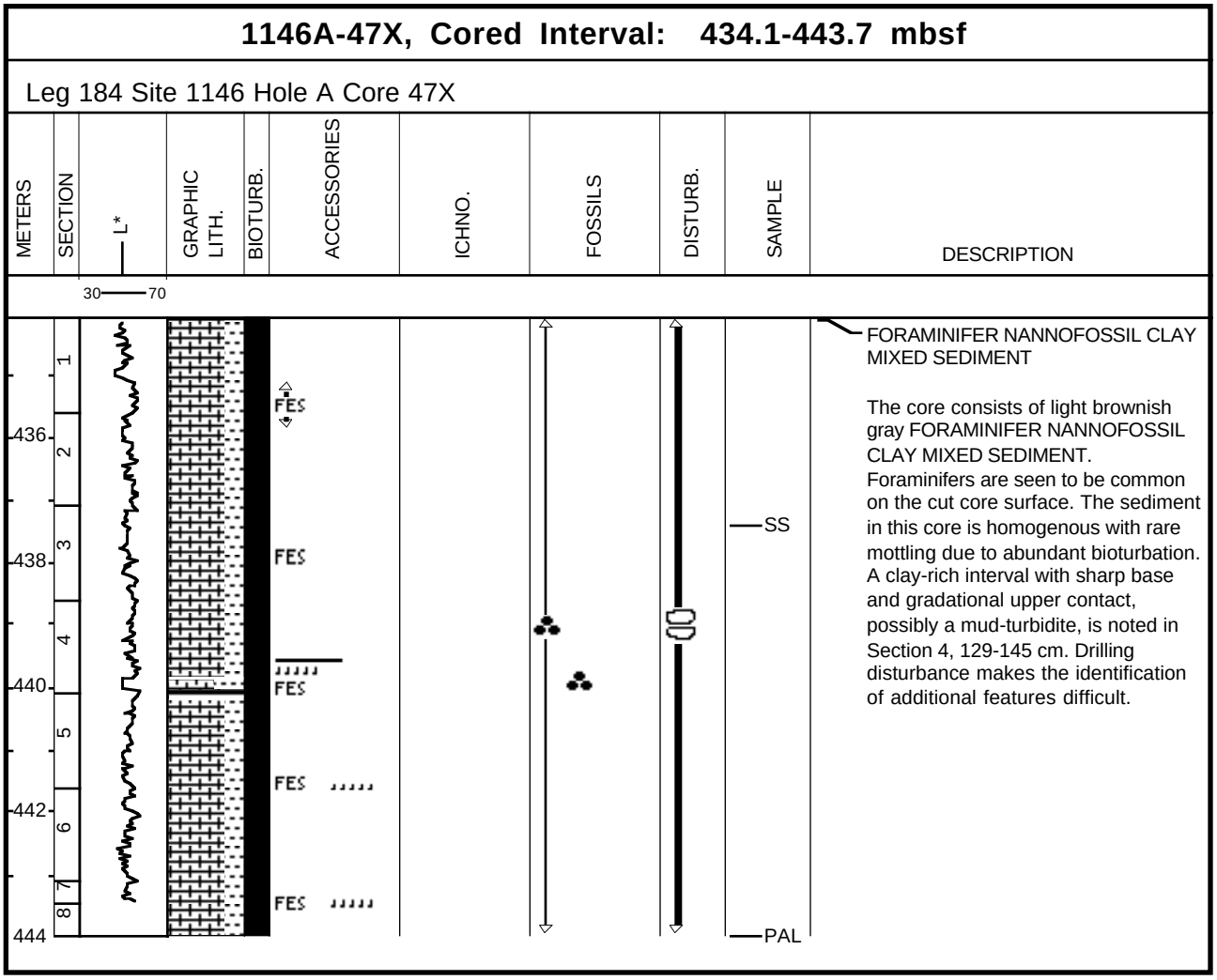
Core Photo


1146A-45X, Cored Interval: 414.9-424.5 mbsf
Leg 184 Site 1146 Hole A Core 45X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
416
418
420
422
424
1
2
3
4
5
6
7
8
FES
FES
FES
SS
IW
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core consists of light brownish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. The sediment in this core is homogenous with rare mottling due to abundant bioturbation. Zoophycos traces and other burrows are observed throughout. Foraminifers are abundant.

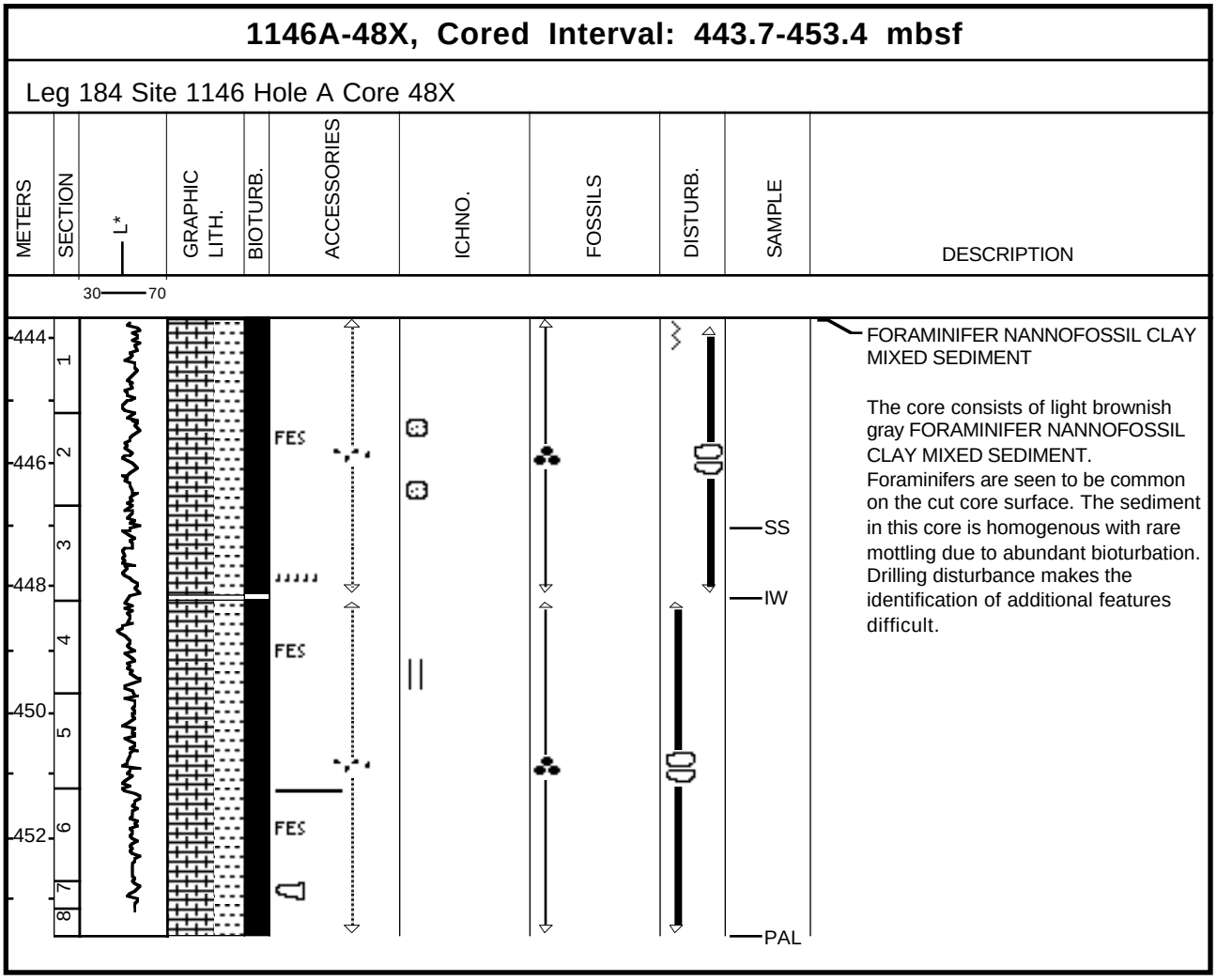
Core Photo


1146A-46X, Cored Interval: 424.5-434.1 mbsf
Leg 184 Site 1146 Hole A Core 46X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
426
428
430
432
434
1
2
3
4
5
6
7
8
FES
Py
FES
FES
FES
SS
SS
SS
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT and NANNOFOSSIL CHALK WITH CLAY
The core consists of light brownish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT with an interbed of light grayish green NANNOFOSSIL CHALK WITH CLAY between Section 1, 10 cm and Section 2, 60 cm. Foraminifers are seen to be common on the cut core surface. At Section 1, 75-81 cm a graded, sharp based FORAMINIFER SAND turbidite is noted, grading up into the background sediment. The NANNOFOSSIL CHALK WITH CLAY and especially the FORAMINIFER SAND are heavily pyritized. The sediment in this core is homogenous with rare mottling due to abundant bioturbation. Zoophycos traces and other burrows are observed in the NANNOFOSSIL CHALK WITH CLAY, while Chrondites is noted in Section 4, 71 cm. Drilling disturbance makes the identification of additional features difficult.

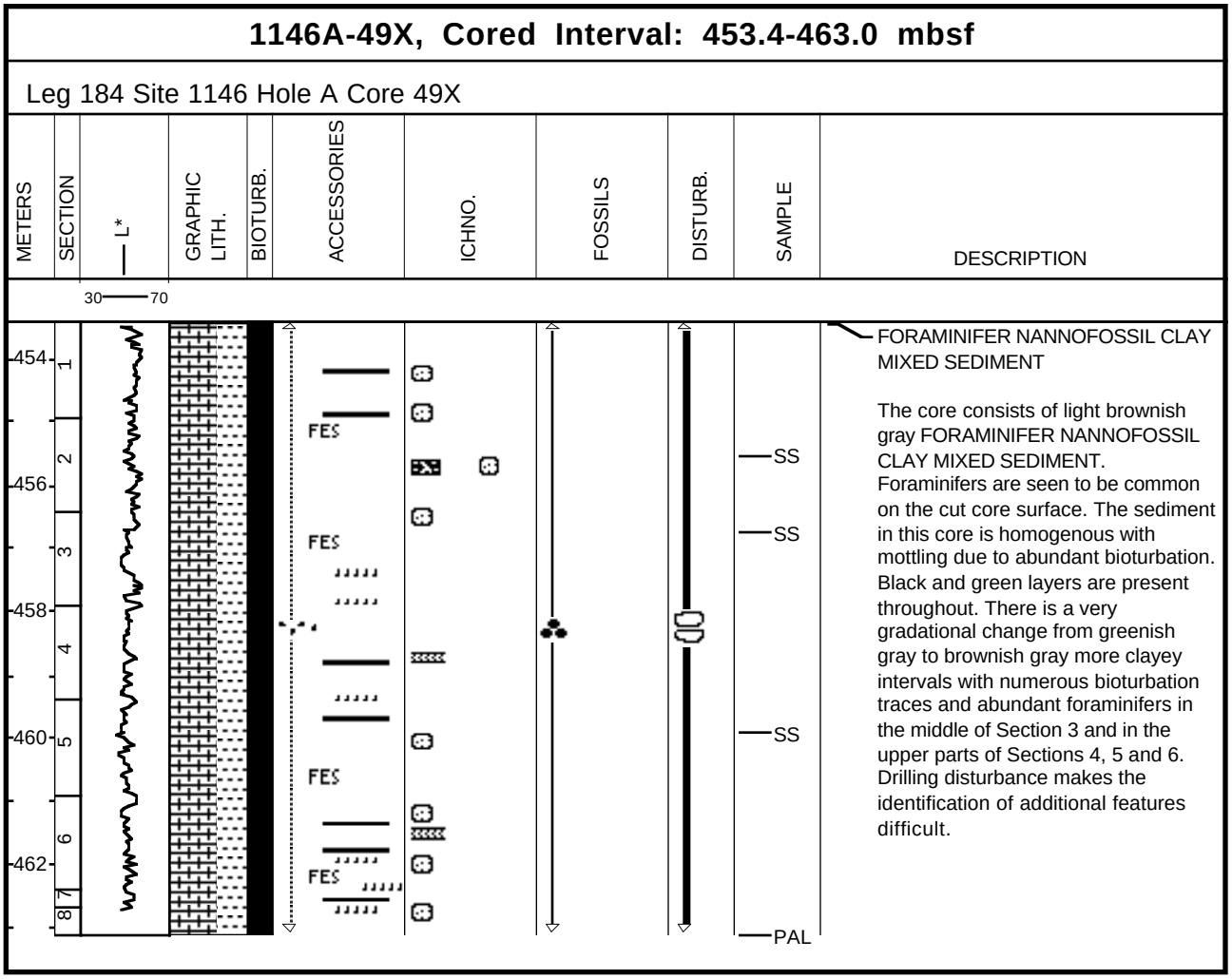
Core Photo


1146A-47X, Cored Interval: 434.1-443.7 mbsf
Leg 184 Site 1146 Hole A Core 47X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
436
438
440
442
444
1
2
3
4
5
6
7
8
FES
FES
FES
FES
FES
SS
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core consists of light brownish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. Foraminifers are seen to be common on the cut core surface. The sediment in this core is homogenous with rare mottling due to abundant bioturbation. A clay-rich interval with sharp base and gradational upper contact, possibly a mud-turbidite, is noted in Section 4, 129-145 cm. Drilling disturbance makes the identification of additional features difficult.

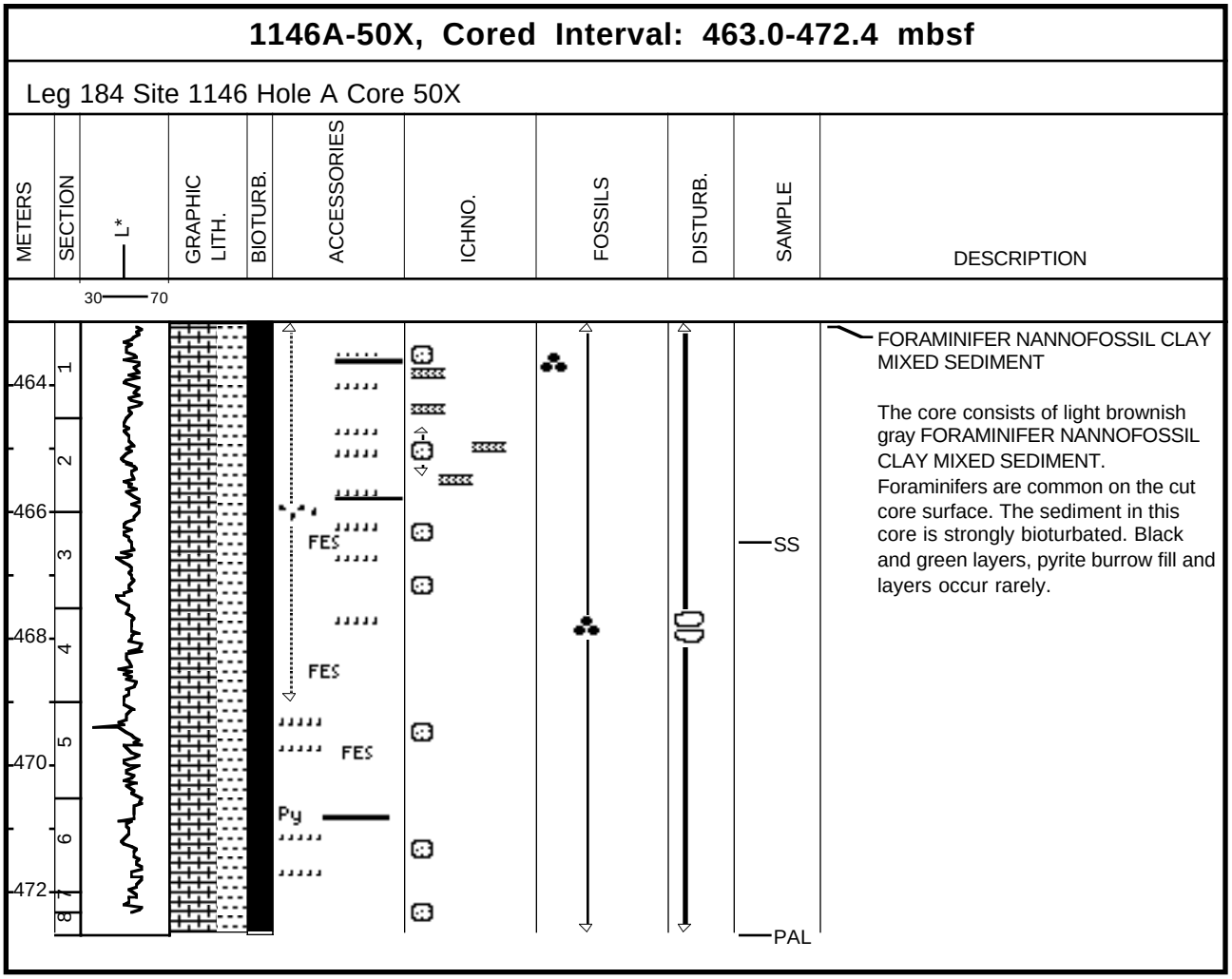
Core Photo


1146A-48X, Cored Interval: 443.7-453.4 mbsf
Leg 184 Site 1146 Hole A Core 48X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
444
446
448
450
452
1
2
3
4
5
6
7
8
FES
FES
FES
SS
IW
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core consists of light brownish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. Foraminifers are seen to be common on the cut core surface. The sediment in this core is homogenous with rare mottling due to abundant bioturbation. Drilling disturbance makes the identification of additional features difficult.

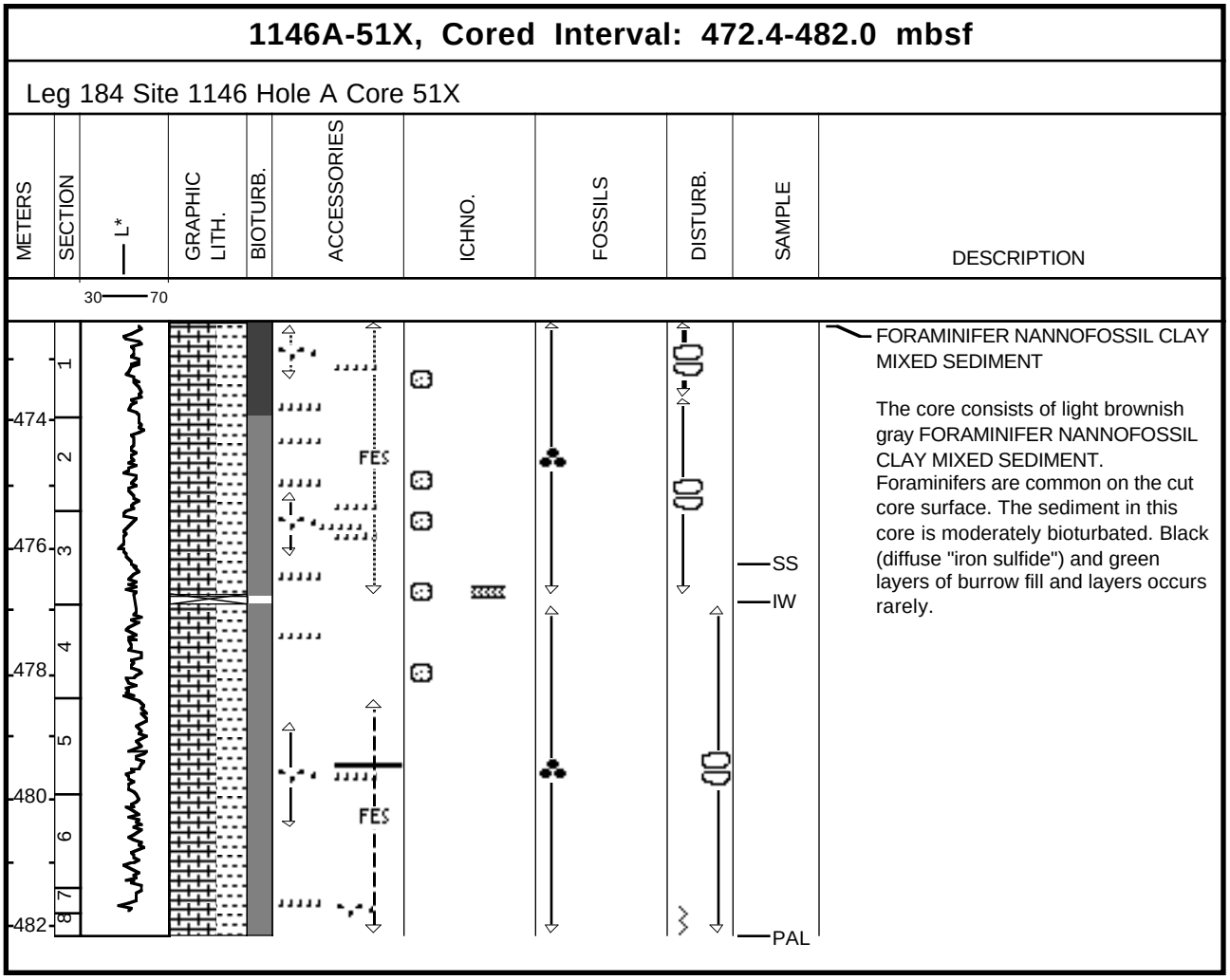
Core Photo


1146A-49X, Cored Interval: 453.4-463.0 mbsf
Leg 184 Site 1146 Hole A Core 49X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
454
456
458
460
462
1
2
3
4
5
6
7
8
FES
FES
FES
FES
SS
SS
SS
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core consists of light brownish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. Foraminifers are seen to be common on the cut core surface. The sediment in this core is homogenous with mottling due to abundant bioturbation. Black and green layers are present throughout. There is a very gradational change from greenish gray to brownish gray more clayey intervals with numerous bioturbation traces and abundant foraminifers in the middle of Section 3 and in the upper parts of Sections 4, 5 and 6. Drilling disturbance makes the identification of additional features difficult.

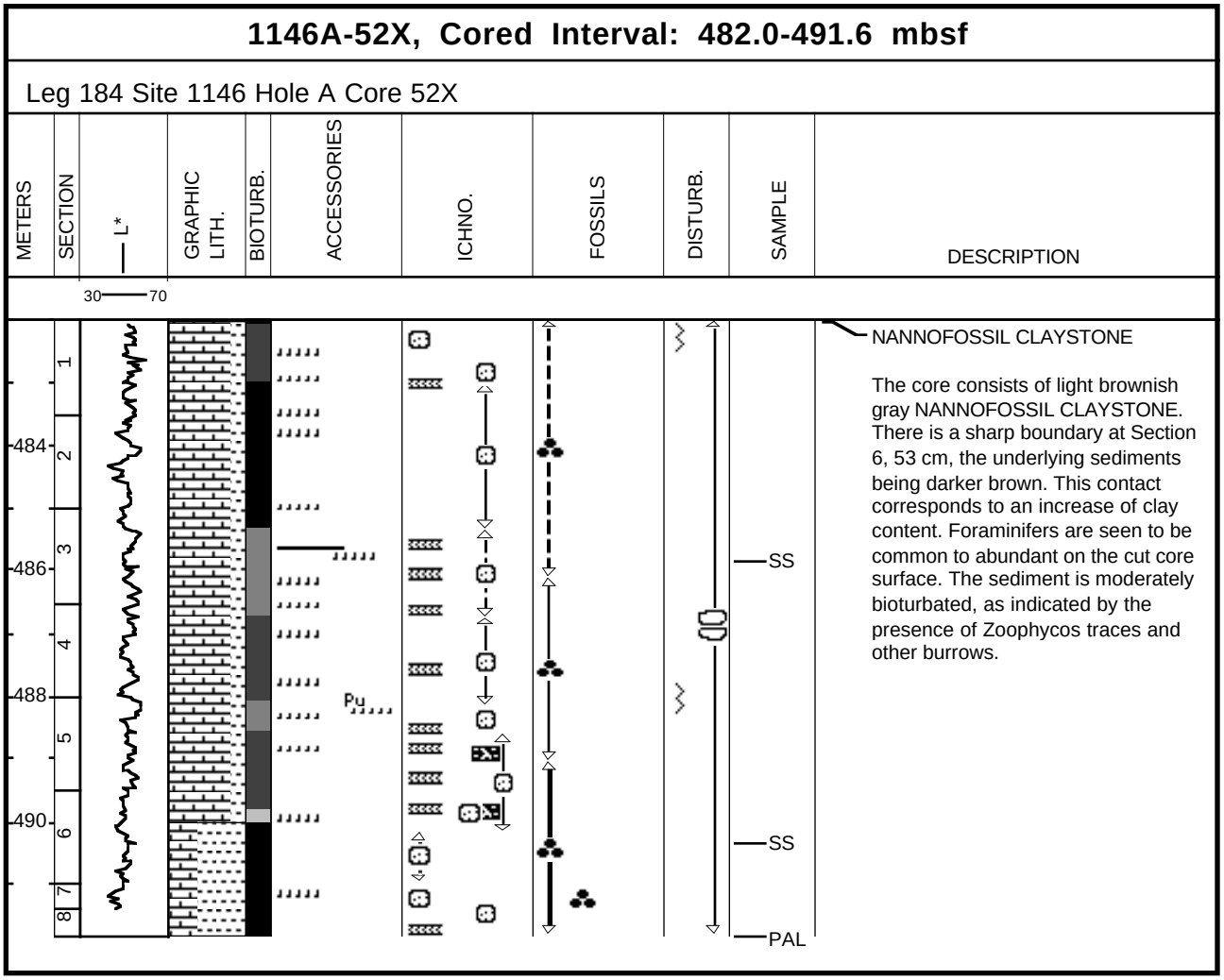
Core Photo


1146A-50X, Cored Interval: 463.0-472.4 mbsf
Leg 184 Site 1146 Hole A Core 50X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
464
466
468
470
472
1
2
3
4
5
6
7
CC
FES
FES
FES
Py
SS
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core consists of light brownish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. Foraminifers are common on the cut core surface. The sediment in this core is strongly bioturbated. Black and green layers, pyrite burrow fill and layers occur rarely.

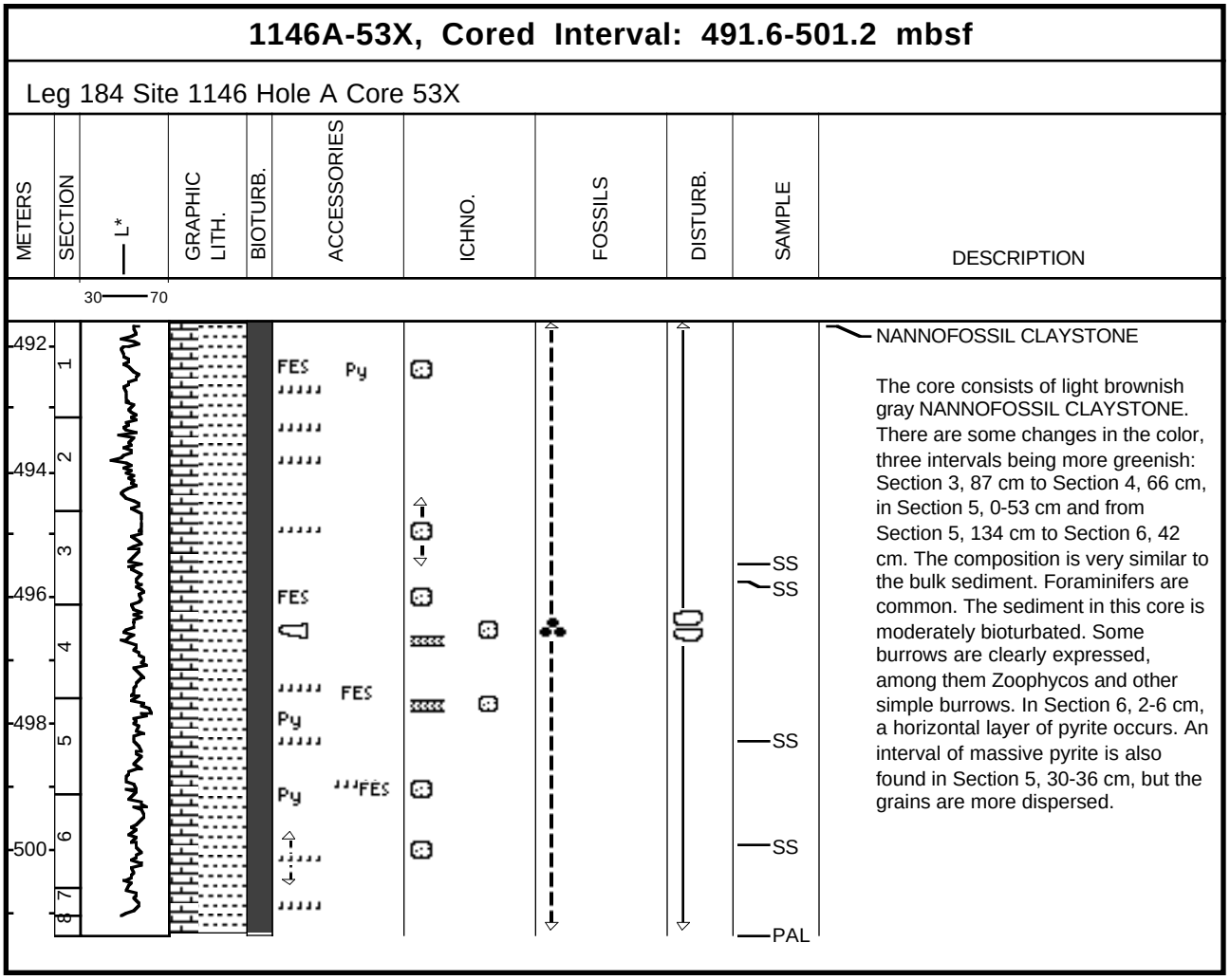
Core Photo


1146A-51X, Cored Interval: 472.4-482.0 mbsf
Leg 184 Site 1146 Hole A Core 51X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
474
476
478
480
482
1
2
3
4
5
6
7
8
FES
FES
SS
IW
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core consists of light brownish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. Foraminifers are common on the cut core surface. The sediment in this core is moderately bioturbated. Black (diffuse "iron sulfide") and green layers of burrow fill and layers occurs rarely.

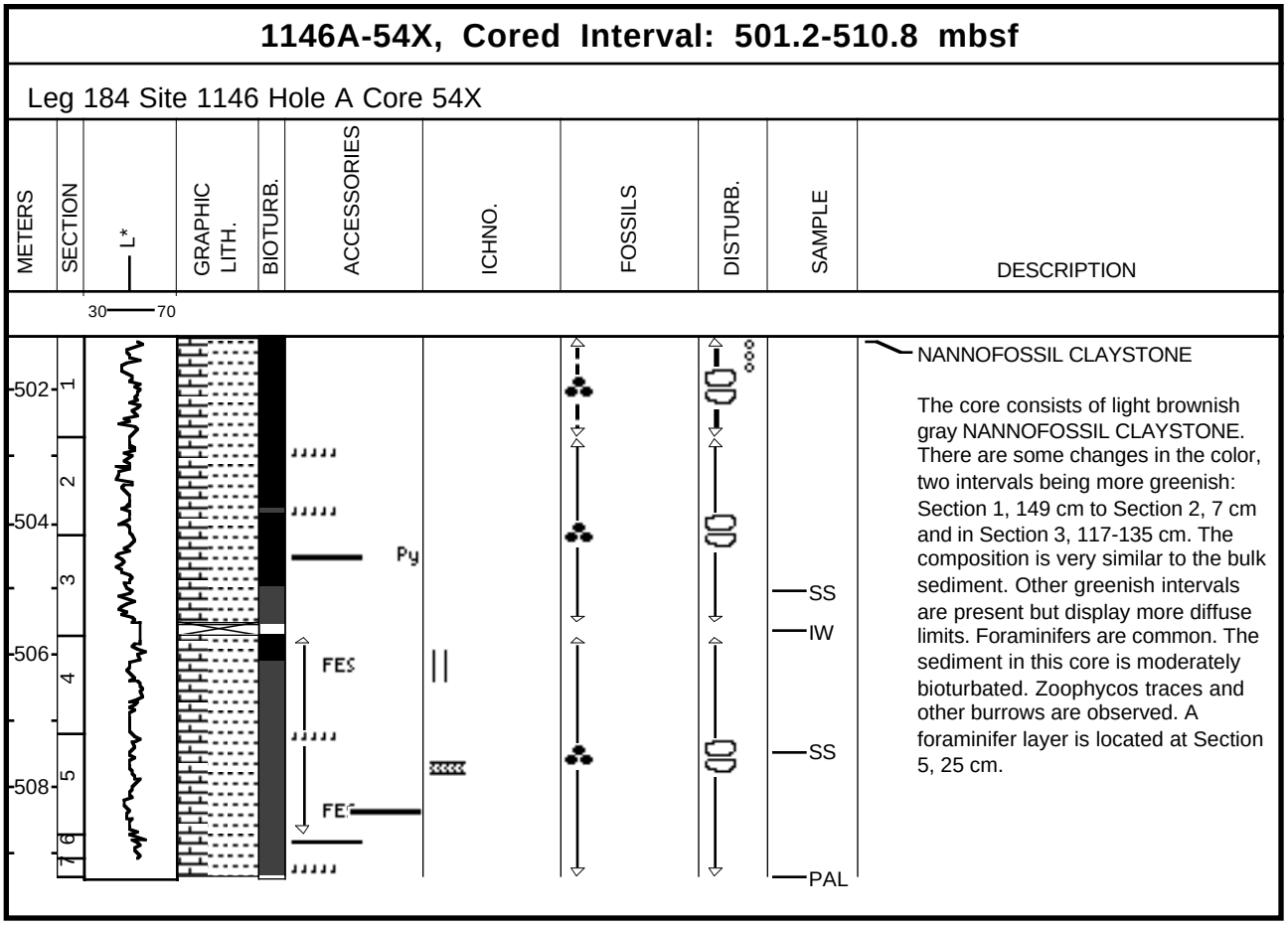
Core Photo


1146A-52X, Cored Interval: 482.0-491.6 mbsf
Leg 184 Site 1146 Hole A Core 52X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
484
486
488
490
1
2
3
4
5
6
7
8
Pu
SS
SS
PAL
NANNOFOSSIL CLAYSTONE
The core consists of light brownish gray NANNOFOSSIL CLAYSTONE. There is a sharp boundary at Section 6, 53 cm, the underlying sediments being darker brown. This contact corresponds to an increase of clay content. Foraminifers are seen to be common to abundant on the cut core surface. The sediment is moderately bioturbated, as indicated by the presence of Zoophycos traces and other burrows.

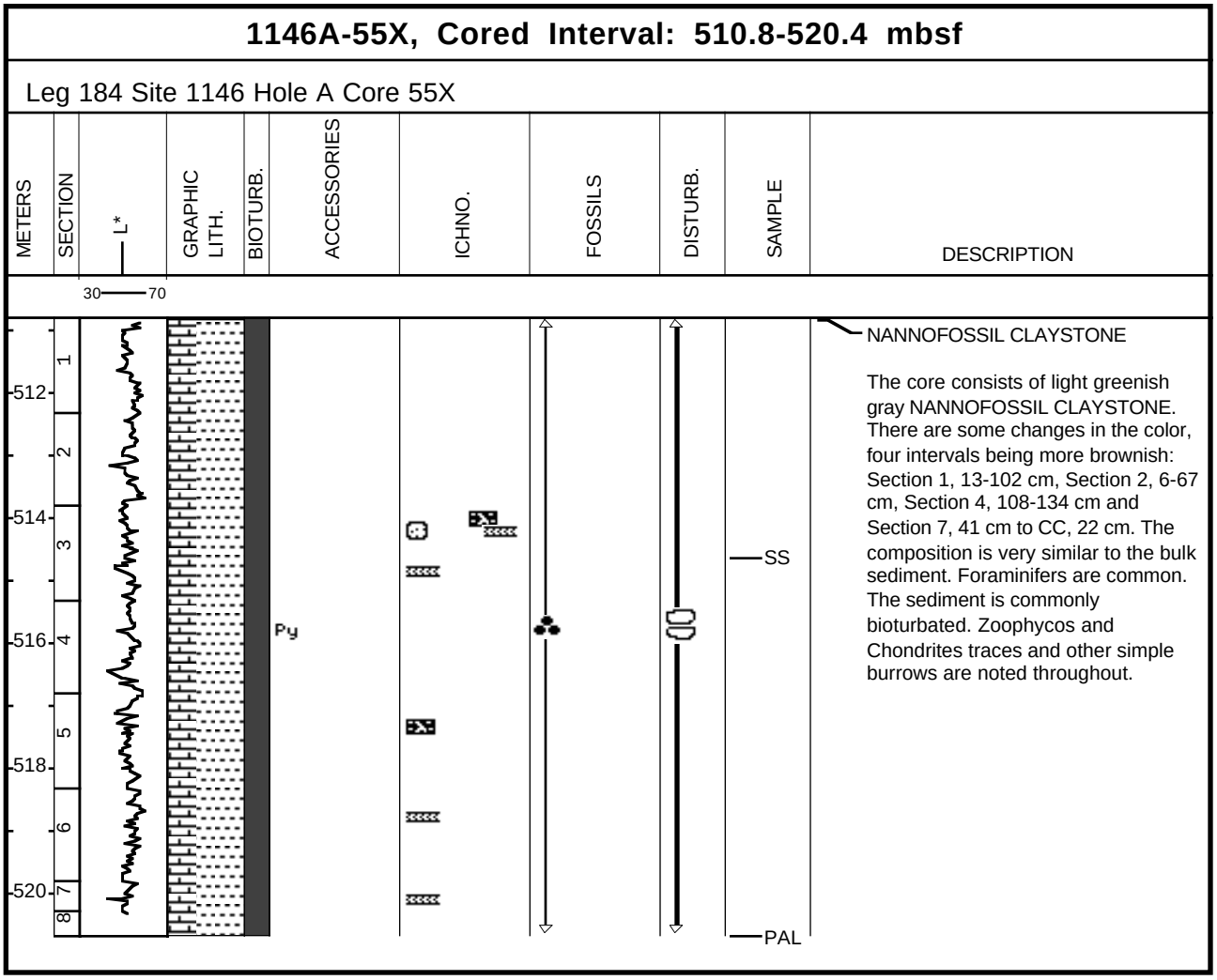
Core Photo


1146A-53X, Cored Interval: 491.6-501.2 mbsf
Leg 184 Site 1146 Hole A Core 53X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
492
494
496
498
500
1
2
3
4
5
6
7
FES
Py
FES
FES
Py
Py
FES
SS
SS
SS
SS
PAL
NANNOFOSSIL CLAYSTONE
The core consists of light brownish gray NANNOFOSSIL CLAYSTONE. There are some changes in the color, three intervals being more greenish: Section 3, 87 cm to Section 4, 66 cm, in Section 5, 0-53 cm and from Section 5, 134 cm to Section 6, 42 cm. The composition is very similar to the bulk sediment. Foraminifers are common. The sediment in this core is moderately bioturbated. Some burrows are clearly expressed, among them Zoophycos and other simple burrows. In Section 6, 2-6 cm, a horizontal layer of pyrite occurs. An interval of massive pyrite is also found in Section 5, 30-36 cm, but the grains are more dispersed.

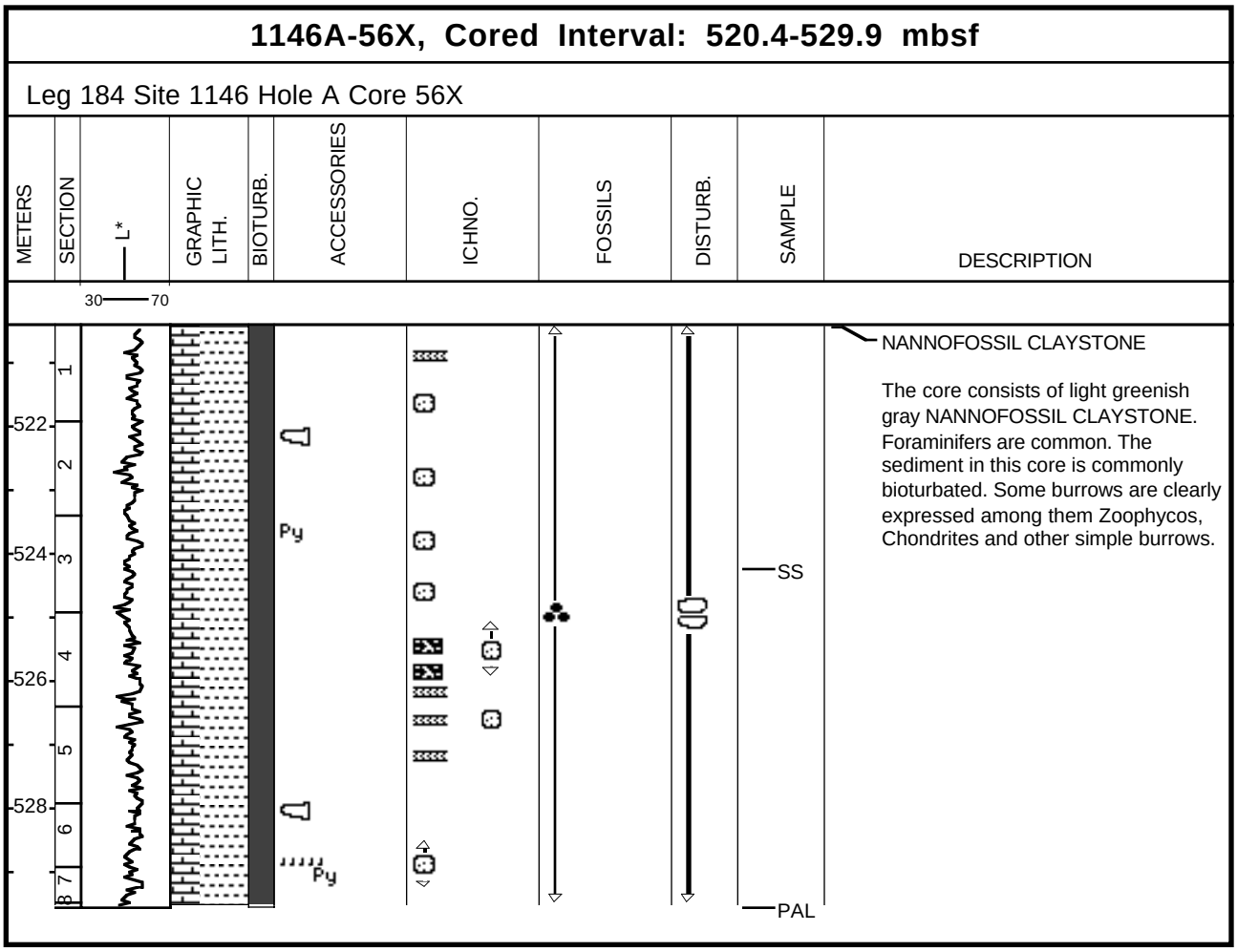
Core Photo


1146A-54X, Cored Interval: 501.2-510.8 mbsf
Leg 184 Site 1146 Hole A Core 54X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
502
504
506
508
1
2
3
4
5
6
7
Py
FES
FE
SS
IW
SS
PAL
NANNOFOSSIL CLAYSTONE
The core consists of light brownish gray NANNOFOSSIL CLAYSTONE. There are some changes in the color, two intervals being more greenish: Section 1, 149 cm to Section 2, 7 cm and in Section 3, 117-135 cm. The composition is very similar to the bulk sediment. Other greenish intervals are present but display more diffuse limits. Foraminifers are common. The sediment in this core is moderately bioturbated. Zoophycos traces and other burrows are observed. A foraminifer layer is located at Section 5, 25 cm.

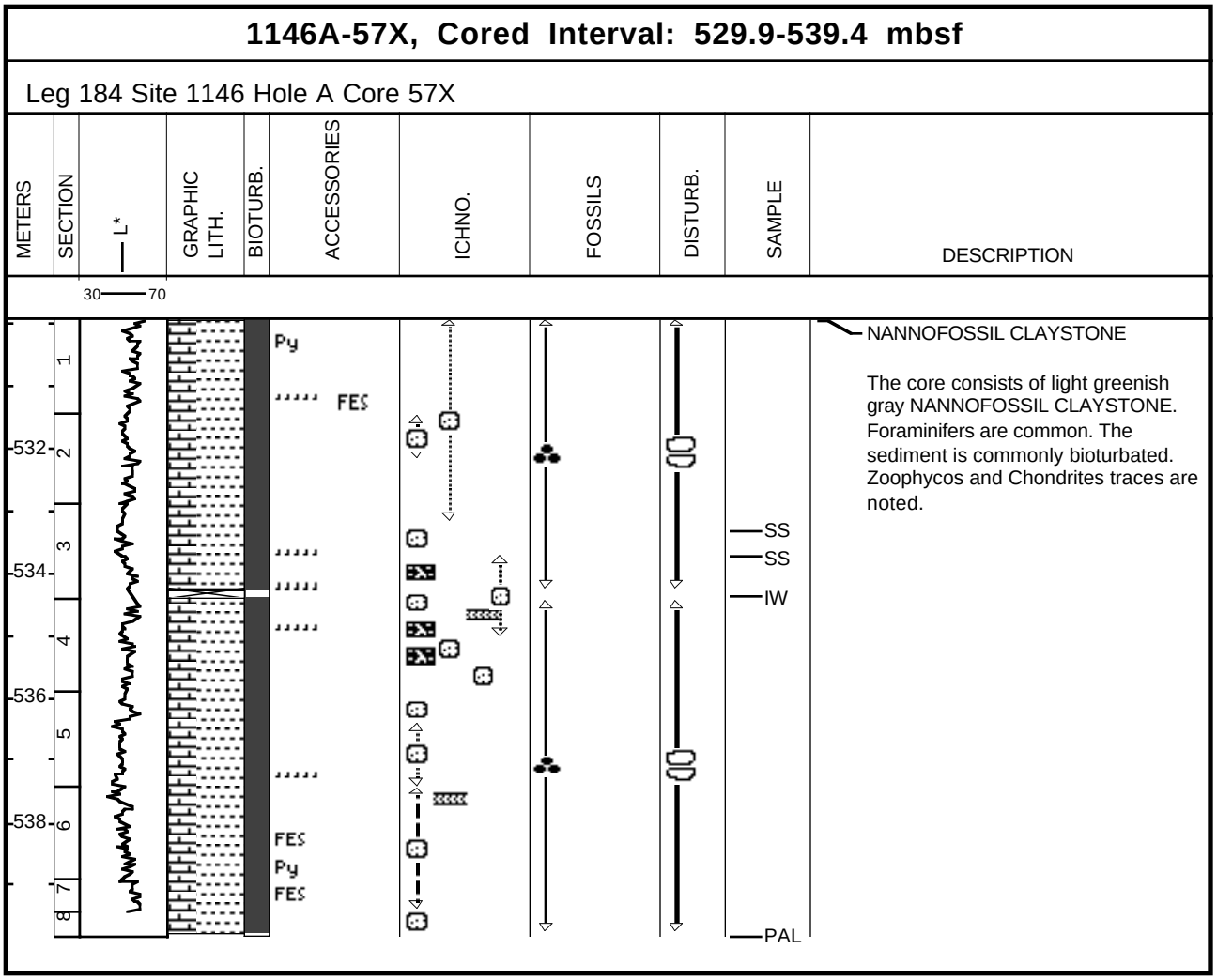
Core Photo


1146A-55X, Cored Interval: 510.8-520.4 mbsf
Leg 184 Site 1146 Hole A Core 55X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
512
514
516
518
520
1
2
3
4
5
6
7
8
Py
SS
PAL
NANNOFOSSIL CLAYSTONE
The core consists of light greenish gray NANNOFOSSIL CLAYSTONE. There are some changes in the color, four intervals being more brownish: Section 1, 13-102 cm, Section 2, 6-67 cm, Section 4, 108-134 cm and Section 7, 41 cm to CC, 22 cm. The composition is very similar to the bulk sediment. Foraminifers are common. The sediment is commonly bioturbated. Zoophycos and Chondrites traces and other simple burrows are noted throughout.

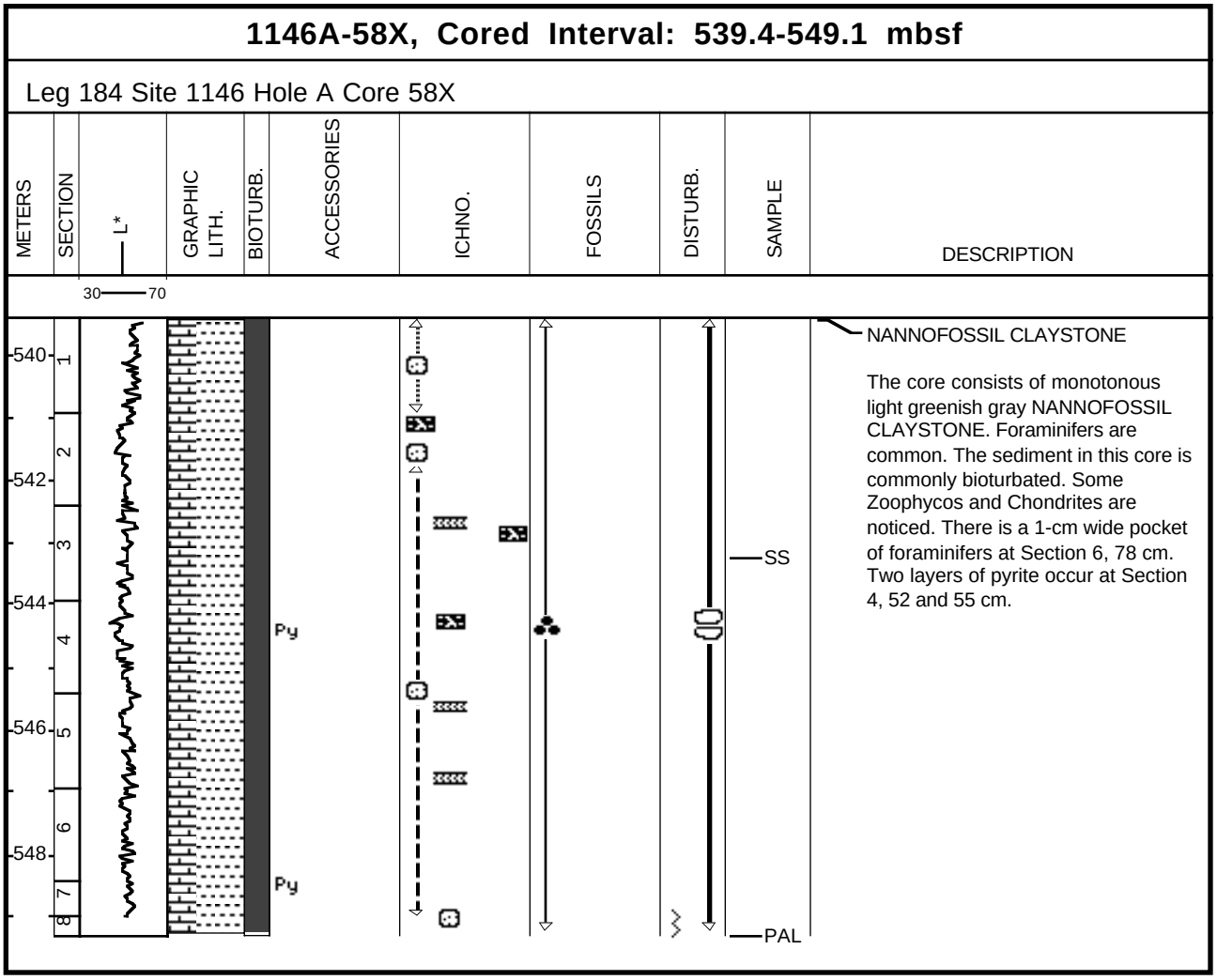
Core Photo


1146A-56X, Cored Interval: 520.4-529.9 mbsf
Leg 184 Site 1146 Hole A Core 56X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
522
524
526
528
1
2
3
4
5
6
7
CC
Py
Py
SS
PAL
NANNOFOSSIL CLAYSTONE
The core consists of light greenish gray NANNOFOSSIL CLAYSTONE. Foraminifers are common. The sediment in this core is commonly bioturbated. Some burrows are clearly expressed among them Zoophycos, Chondrites and other simple burrows.

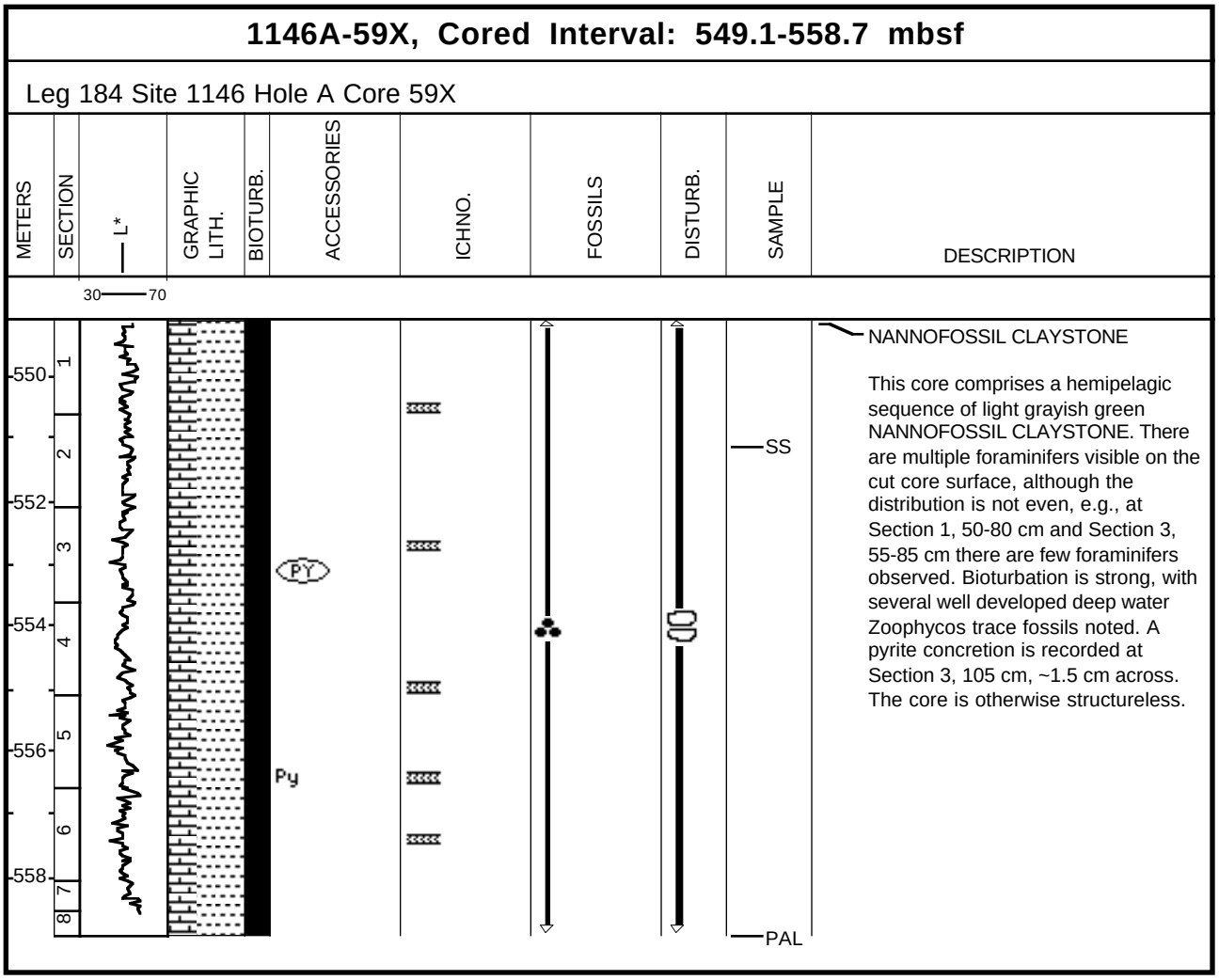
Core Photo


1146A-57X, Cored Interval: 529.9-539.4 mbsf
Leg 184 Site 1146 Hole A Core 57X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
532
534
536
538
1
2
3
4
5
6
7
Py
FES
FES
Py
FES
SS
SS
IW
PAL
NANNOFOSSIL CLAYSTONE
The core consists of light greenish gray NANNOFOSSIL CLAYSTONE. Foraminifers are common. The sediment is commonly bioturbated. Zoophycos and Chondrites traces are noted.

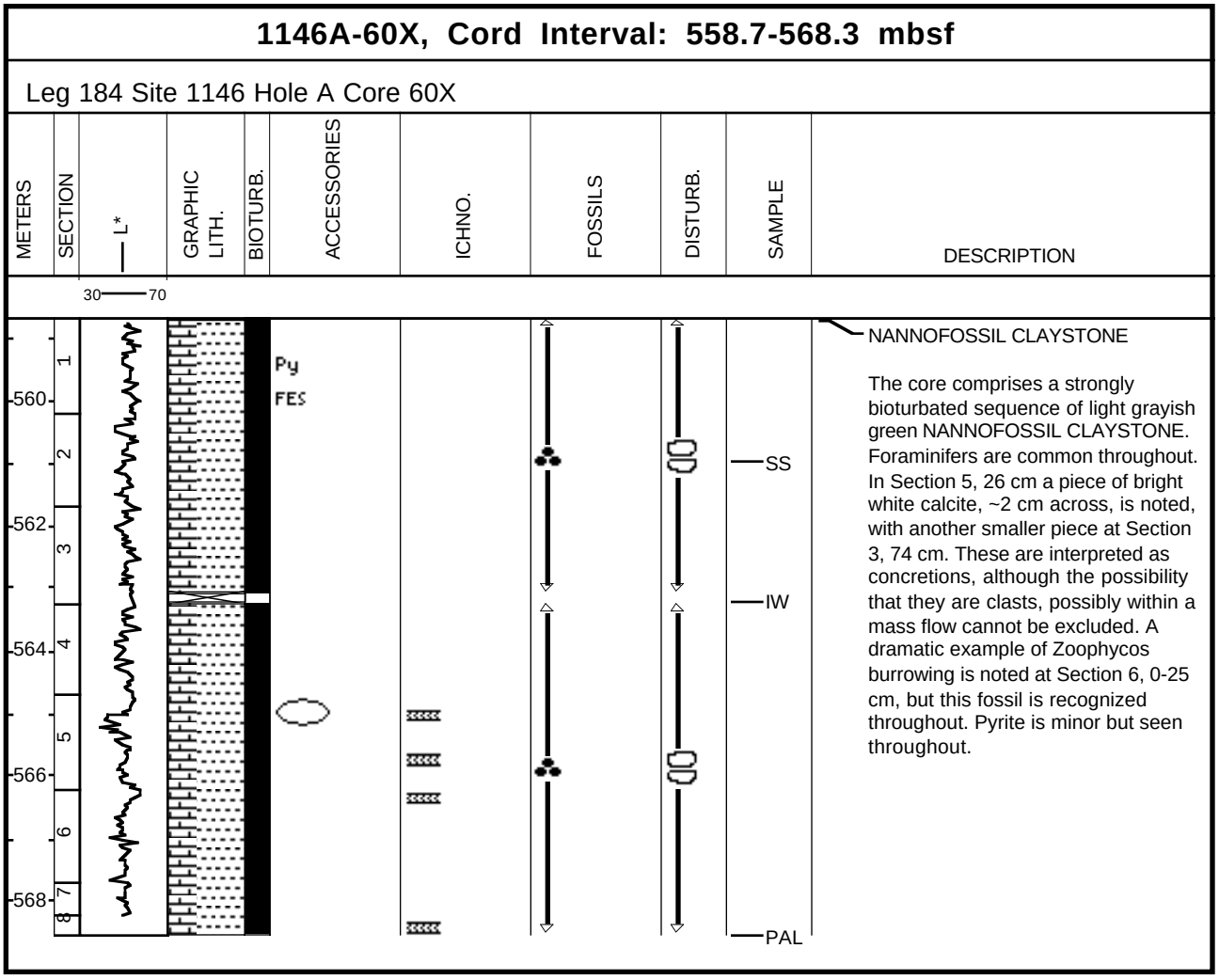
Core Photo


1146A-58X, Cored Interval: 539.4-549.1 mbsf
Leg 184 Site 1146 Hole A Core 58X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
540
542
544
546
548
1
2
3
4
5
6
7
8
Py
Py
SS
PAL
NANNOFOSSIL CLAYSTONE
The core consists of monotonous light greenish gray NANNOFOSSIL CLAYSTONE. Foraminifers are common. The sediment in this core is commonly bioturbated. Some Zoophycos and Chondrites are noticed. There is a 1-cm wide pocket of foraminifers at Section 6, 78 cm. Two layers of pyrite occur at Section 4, 52 and 55 cm.

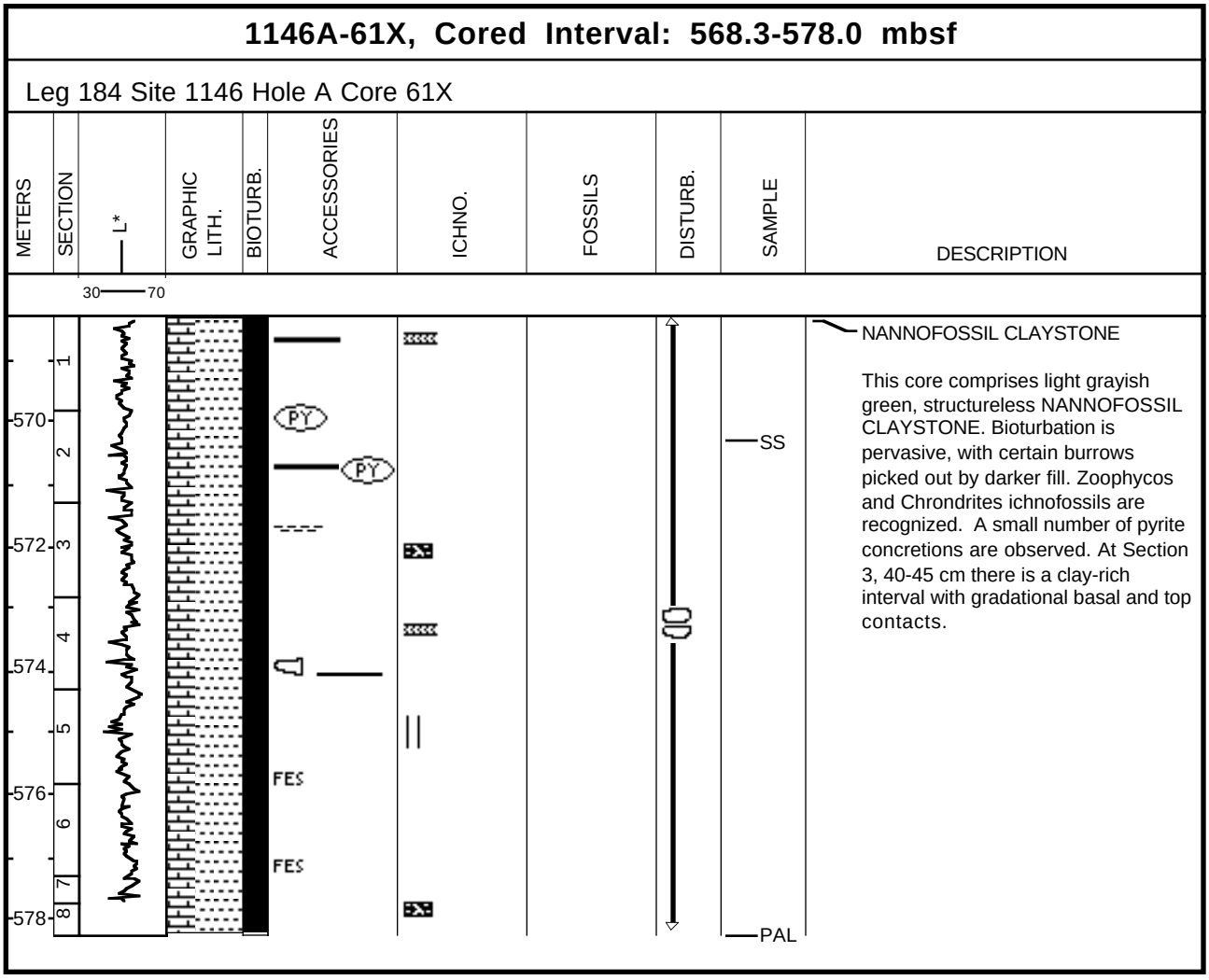
Core Photo


1146A-59X, Cored Interval: 549.1-558.7 mbsf
Leg 184 Site 1146 Hole A Core 59X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
550
552
554
556
558
1
2
3
4
5
6
7
8
PY
Py
SS
PAL
NANNOFOSSIL CLAYSTONE
This core comprises a hemipelagic sequence of light grayish green NANNOFOSSIL CLAYSTONE. There are multiple foraminifers visible on the cut core surface, although the distribution is not even, e.g., at Section 1, 50-80 cm and Section 3, 55-85 cm there are few foraminifers observed. Bioturbation is strong, with several well developed deep water Zoophycos trace fossils noted. A pyrite concretion is recorded at Section 3, 105 cm, ~1.5 cm across. The core is otherwise structureless.

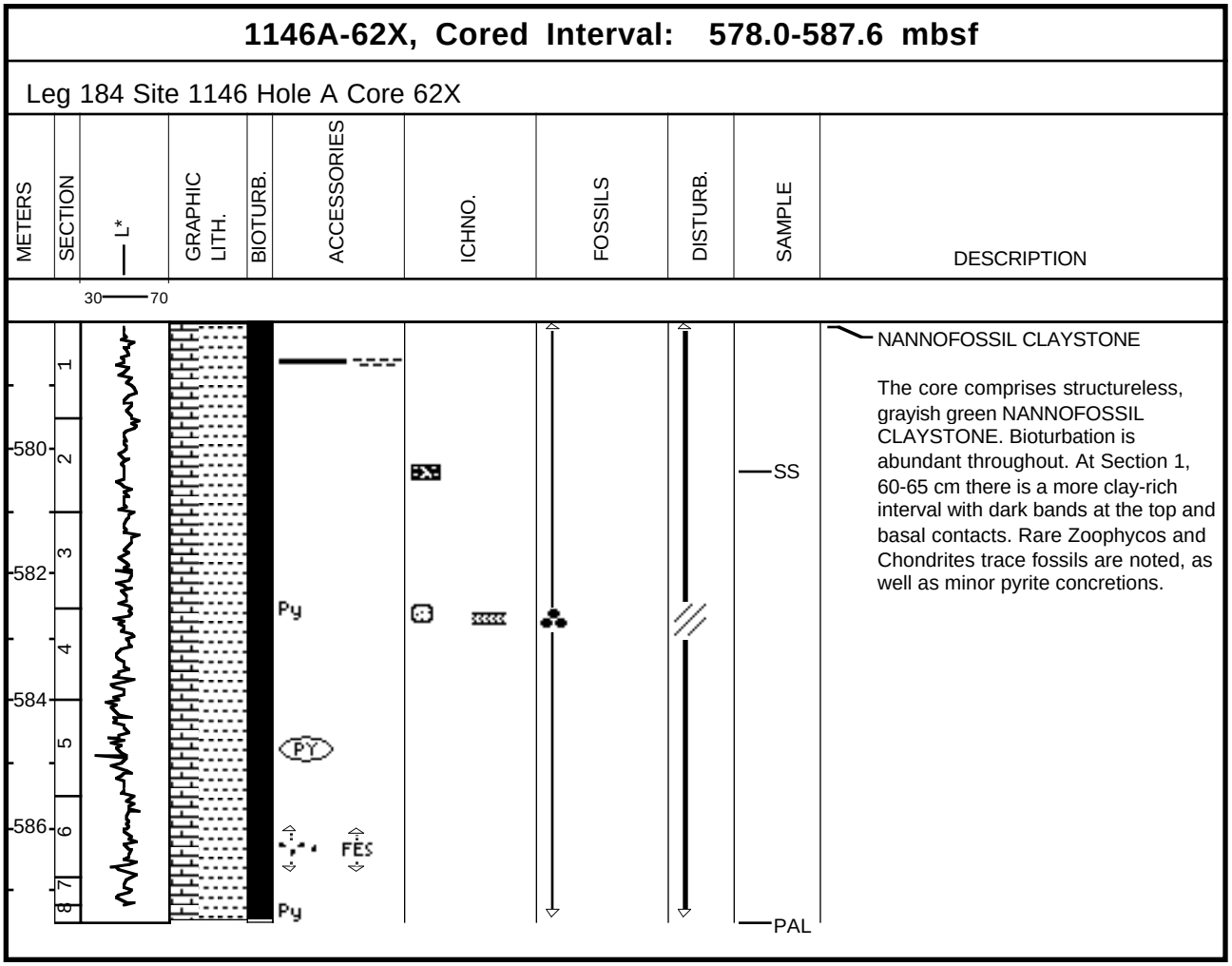
Core Photo


1146A-60X, Cord Interval: 558.7-568.3 mbsf
Leg 184 Site 1146 Hole A Core 60X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
560
562
564
566
568
1
2
3
4
5
6
7
Py
FES
SS
IW
PAL
NANNOFOSSIL CLAYSTONE
The core comprises a strongly bioturbated sequence of light grayish green NANNOFOSSIL CLAYSTONE. Foraminifers are common throughout. In Section 5, 26 cm a piece of bright white calcite, ~2 cm across, is noted, with another smaller piece at Section 3, 74 cm. These are interpreted as concretions, although the possibility that they are clasts, possibly within a mass flow cannot be excluded. A dramatic example of Zoophycos burrowing is noted at Section 6, 0-25 cm, but this fossil is recognized throughout. Pyrite is minor but seen throughout.

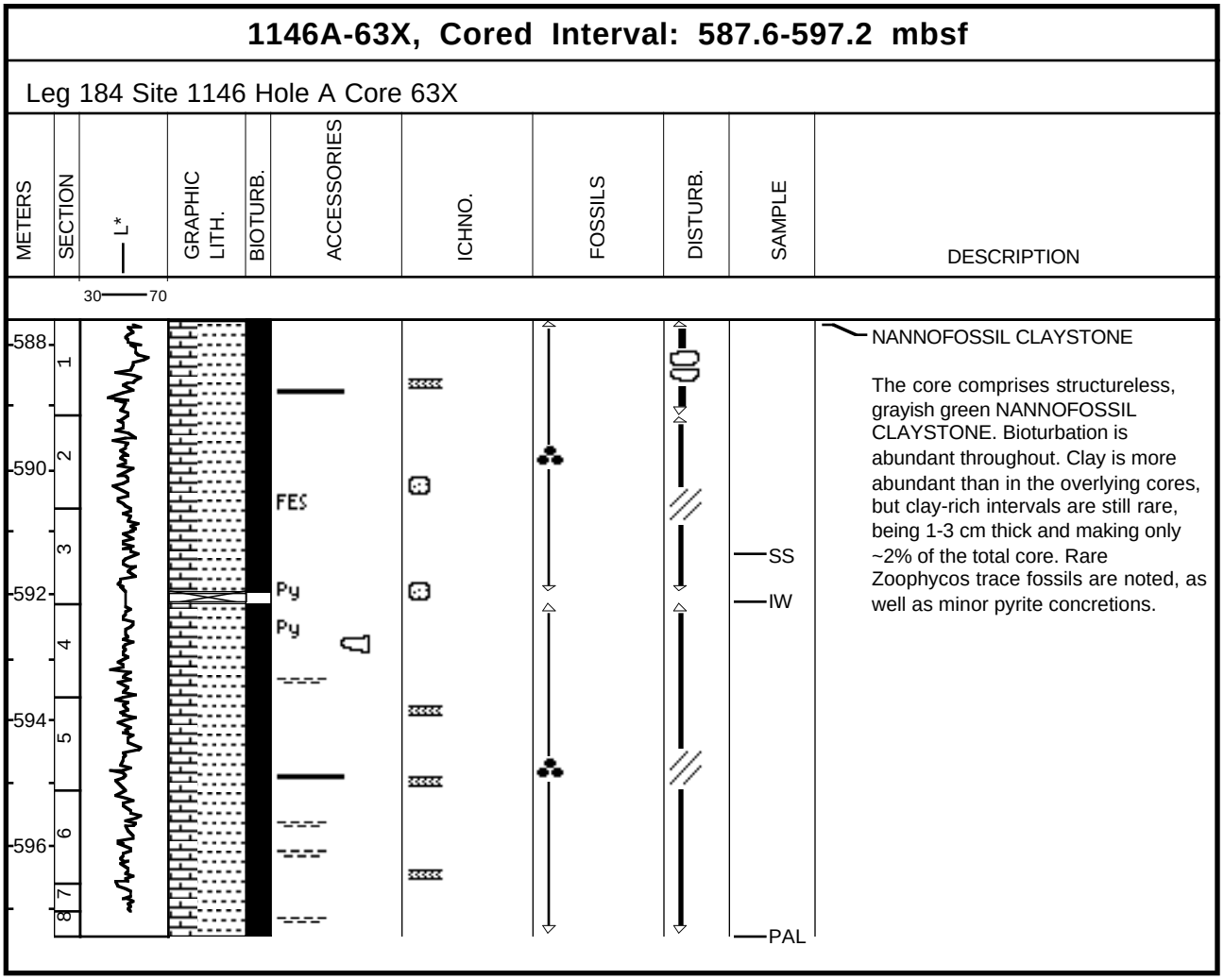
Core Photo


1146A-61X, Cored Interval: 568.3-578.0 mbsf
Leg 184 Site 1146 Hole A Core 61X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
570
572
574
576
578
1
2
3
4
5
6
7
8
PY
PY
FES
FES
SS
PAL
NANNOFOSSIL CLAYSTONE
This core comprises light grayish green, structureless NANNOFOSSIL CLAYSTONE. Bioturbation is pervasive, with certain burrows picked out by darker fill. Zoophycos and Chrondrites ichnofossils are recognized. A small number of pyrite concretions are observed. At Section 3, 40-45 cm there is a clay-rich interval with gradational basal and top contacts.

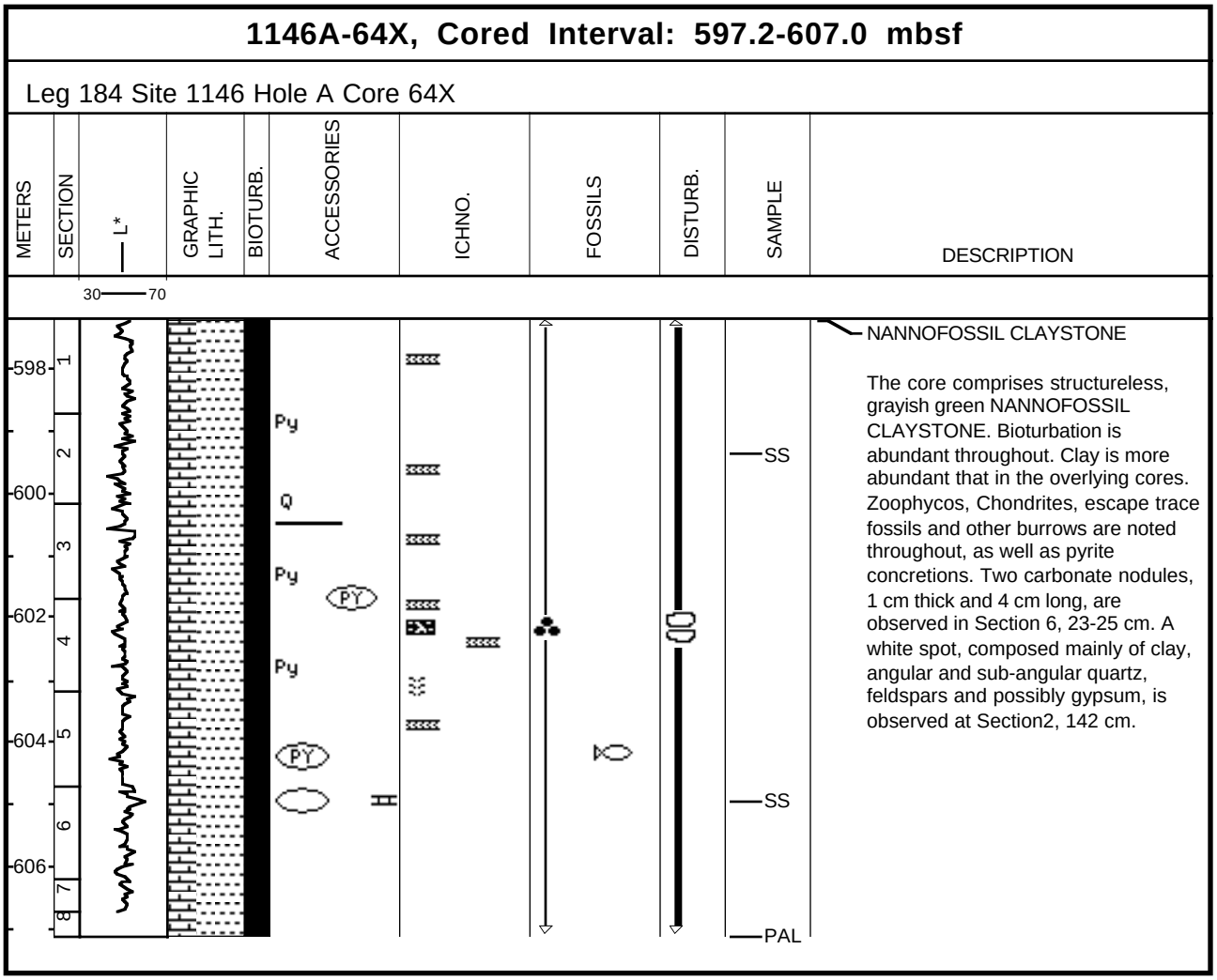
Core Photo


1146A-62X, Cored Interval: 578.0-587.6 mbsf
Leg 184 Site 1146 Hole A Core 62X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
580
582
584
586
1
2
3
4
5
6
7
Py
PY
FES
Py
SS
PAL
NANNOFOSSIL CLAYSTONE
The core comprises structureless, grayish green NANNOFOSSIL CLAYSTONE. Bioturbation is abundant throughout. At Section 1, 60-65 cm there is a more clay-rich interval with dark bands at the top and basal contacts. Rare Zoophycos and Chondrites trace fossils are noted, as well as minor pyrite concretions.

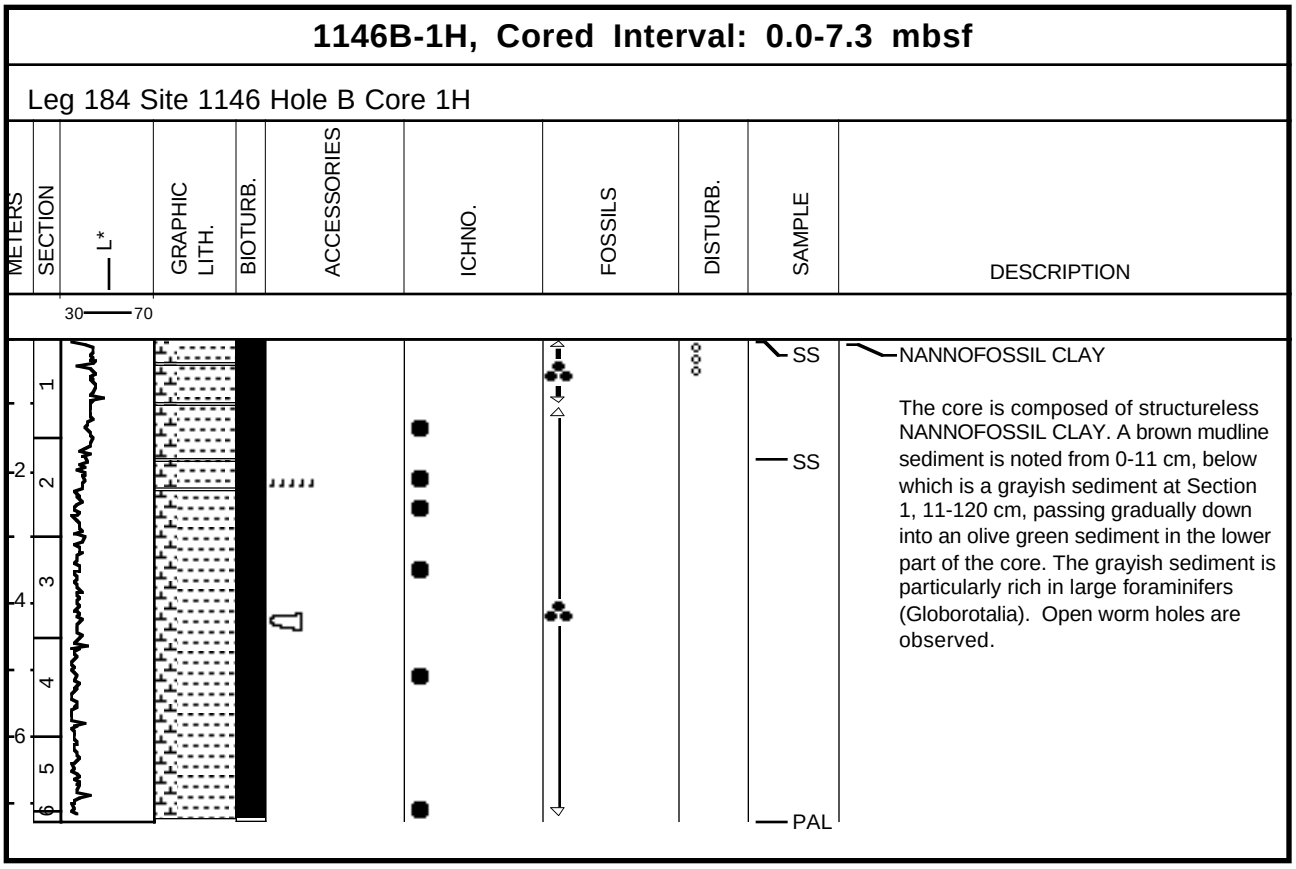
Core Photo


1146A-63X, Cored Interval: 587.6-597.2 mbsf
Leg 184 Site 1146 Hole A Core 63X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
588
590
592
594
596
1
2
3
4
5
6
7
8
FES
Py
Py
SS
IW
PAL
NANNOFOSSIL CLAYSTONE
The core comprises structureless, grayish green NANNOFOSSIL CLAYSTONE. Bioturbation is abundant throughout. Clay is more abundant than in the overlying cores, but clay-rich intervals are still rare, being 1-3 cm thick and making only ~2% of the total core. Rare Zoophycos trace fossils are noted, as well as minor pyrite concretions.

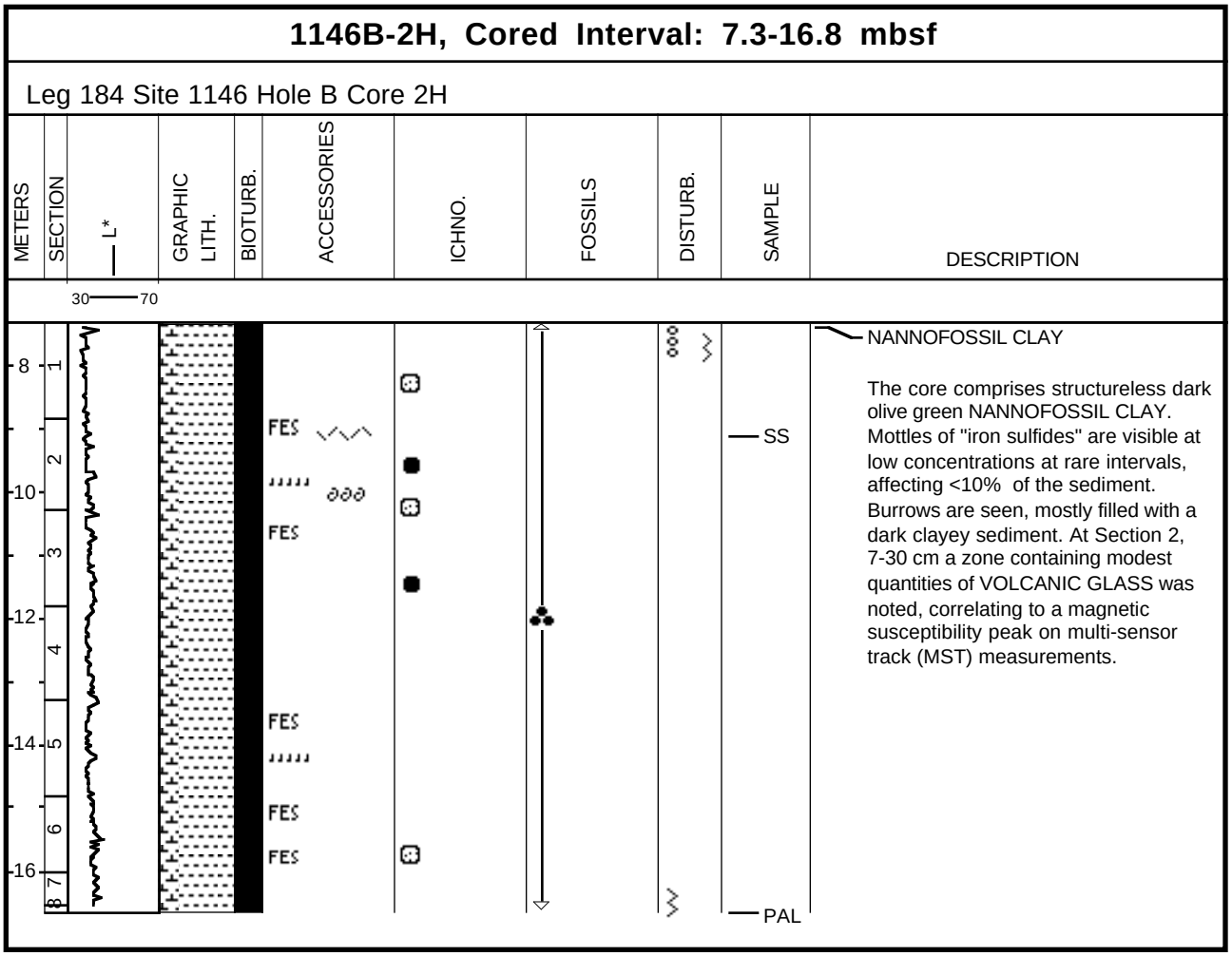
Core Photo


1146A-64X, Cored Interval: 597.2-607.0 mbsf
Leg 184 Site 1146 Hole A Core 64X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
598
600
602
604
606
1
2
3
4
5
6
7
Py
Q
Py
PY
Py
PY
H
SS
SS
PAL
NANNOFOSSIL CLAYSTONE
The core comprises structureless, grayish green NANNOFOSSIL CLAYSTONE. Bioturbation is abundant throughout. Clay is more abundant that in the overlying cores. Zoophycos, Chondrites, escape trace fossils and other burrows are noted throughout, as well as pyrite concretions. Two carbonate nodules, 1 cm thick and 4 cm long, are observed in Section 6, 23-25 cm. A white spot, composed mainly of clay, angular and sub-angular quartz, feldspars and possibly gypsum, is observed at Section2, 142 cm.

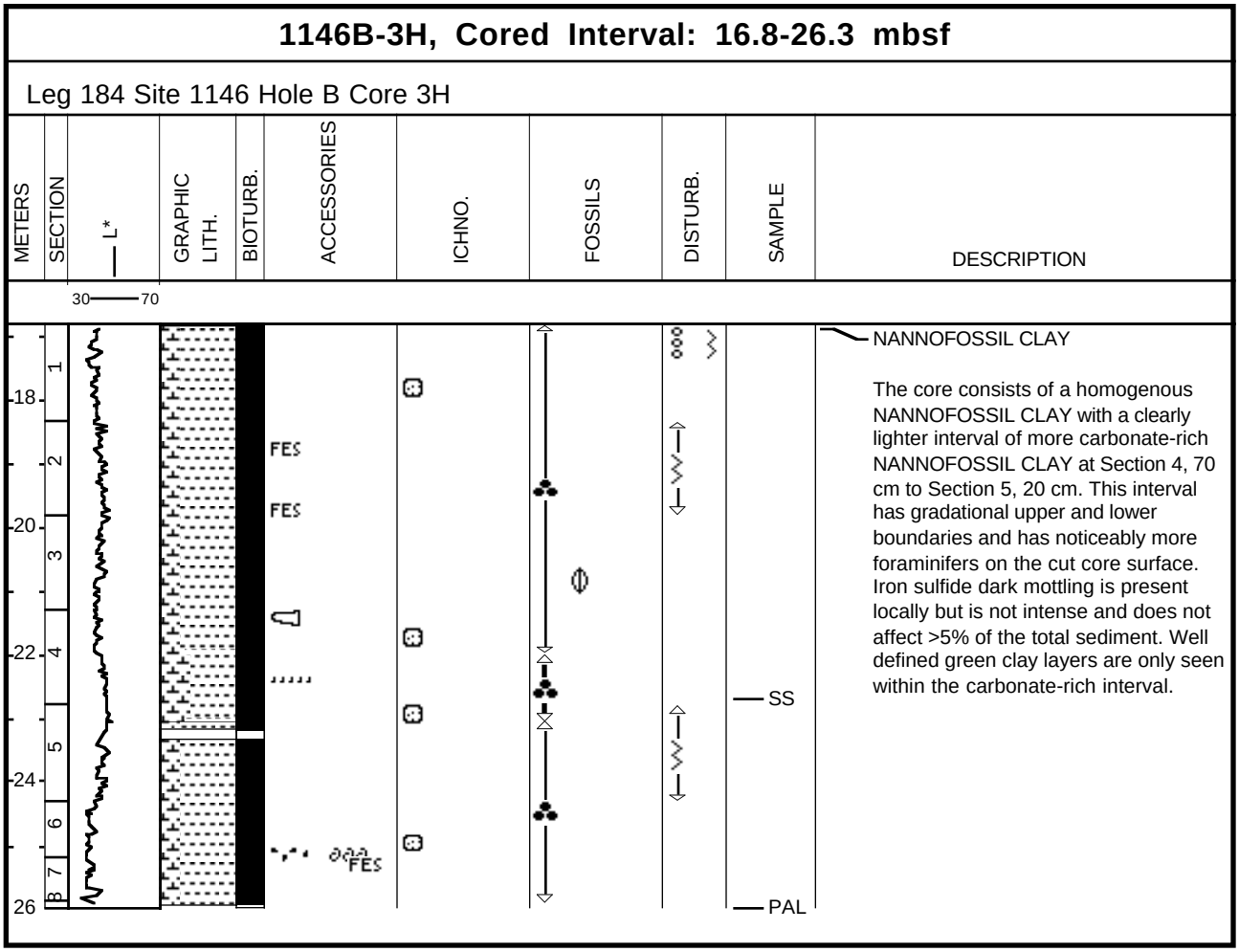
Core Photo


1146B-1H, Cored Interval: 0.0-7.3 mbsf
Leg 184 Site 1146 Hole B Core 1H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
1
2
3
4
5
6
2
4
6
SS
SS
PAL
NANNOFOSSIL CLAY
The core is composed of structureless NANNOFOSSIL CLAY. A brown mudline sediment is noted from 0-11 cm, below which is a grayish sediment at Section 1, 11-120 cm, passing gradually down into an olive green sediment in the lower part of the core. The grayish sediment is particularly rich in large foraminifers (Globorotalia). Open worm holes are observed.

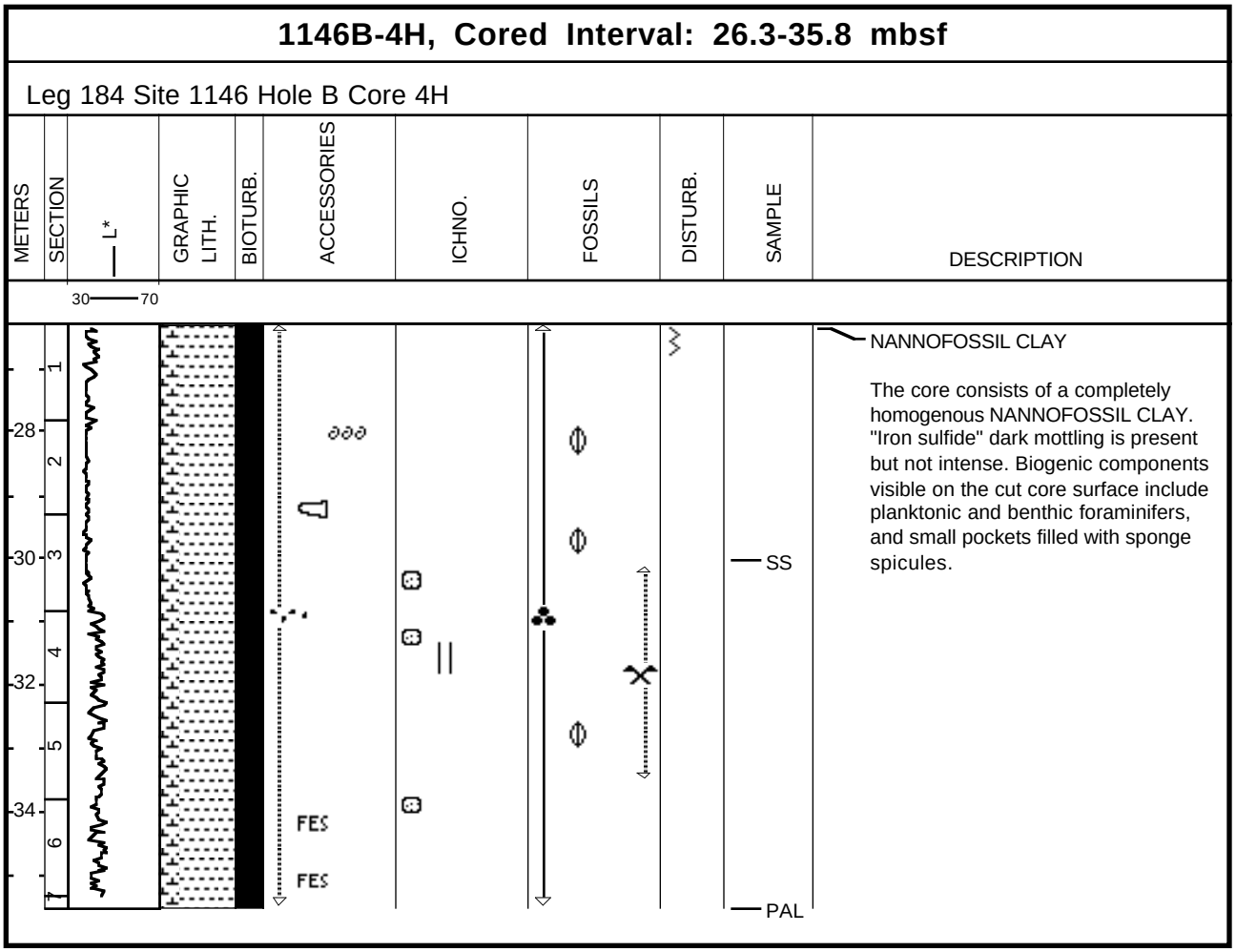
Core Photo


1146B-2H, Cored Interval: 7.3-16.8 mbsf
Leg 184 Site 1146 Hole B Core 2H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
8
10
12
14
16
1
2
3
4
5
6
7
FES
FES
FES
FES
FES
SS
PAL
NANNOFOSSIL CLAY
The core comprises structureless dark olive green NANNOFOSSIL CLAY. Mottles of "iron sulfides" are visible at low concentrations at rare intervals, affecting <10% of the sediment. Burrows are seen, mostly filled with a dark clayey sediment. At Section 2, 7-30 cm a zone containing modest quantities of VOLCANIC GLASS was noted, correlating to a magnetic susceptibility peak on multi-sensor track (MST) measurements.

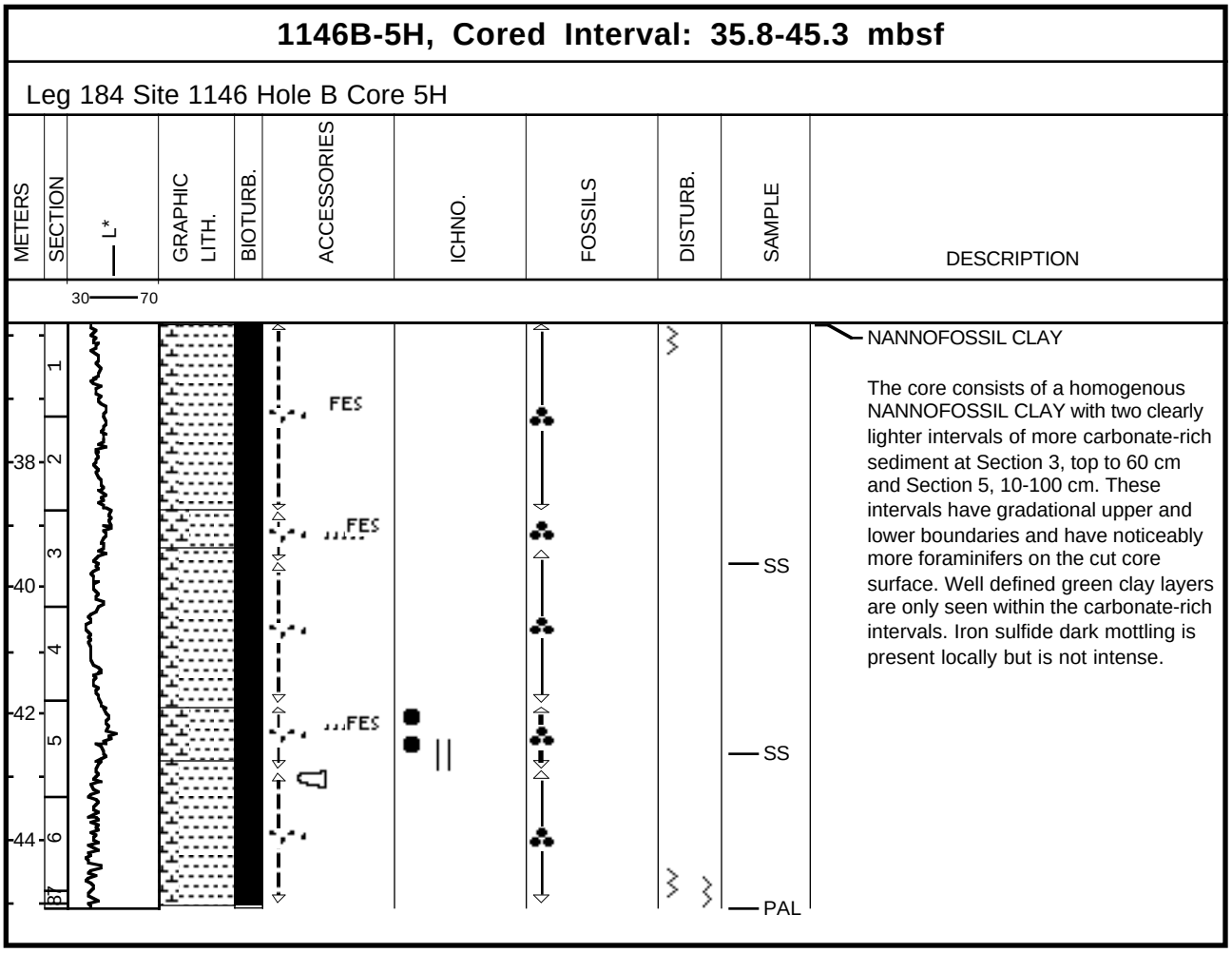
Core Photo


1146B-3H, Cored Interval: 16.8-26.3 mbsf
Leg 184 Site 1146 Hole B Core 3H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
18
20
22
24
26
1
2
3
4
5
6
7
CC
FES
FES
FES
SS
PAL
NANNOFOSSIL CLAY
The core consists of a homogenous NANNOFOSSIL CLAY with a clearly lighter interval of more carbonate-rich NANNOFOSSIL CLAY at Section 4, 70 cm to Section 5, 20 cm. This interval has gradational upper and lower boundaries and has noticeably more foraminifers on the cut core surface. Iron sulfide dark mottling is present locally but is not intense and does not affect >5% of the total sediment. Well defined green clay layers are only seen within the carbonate-rich interval.

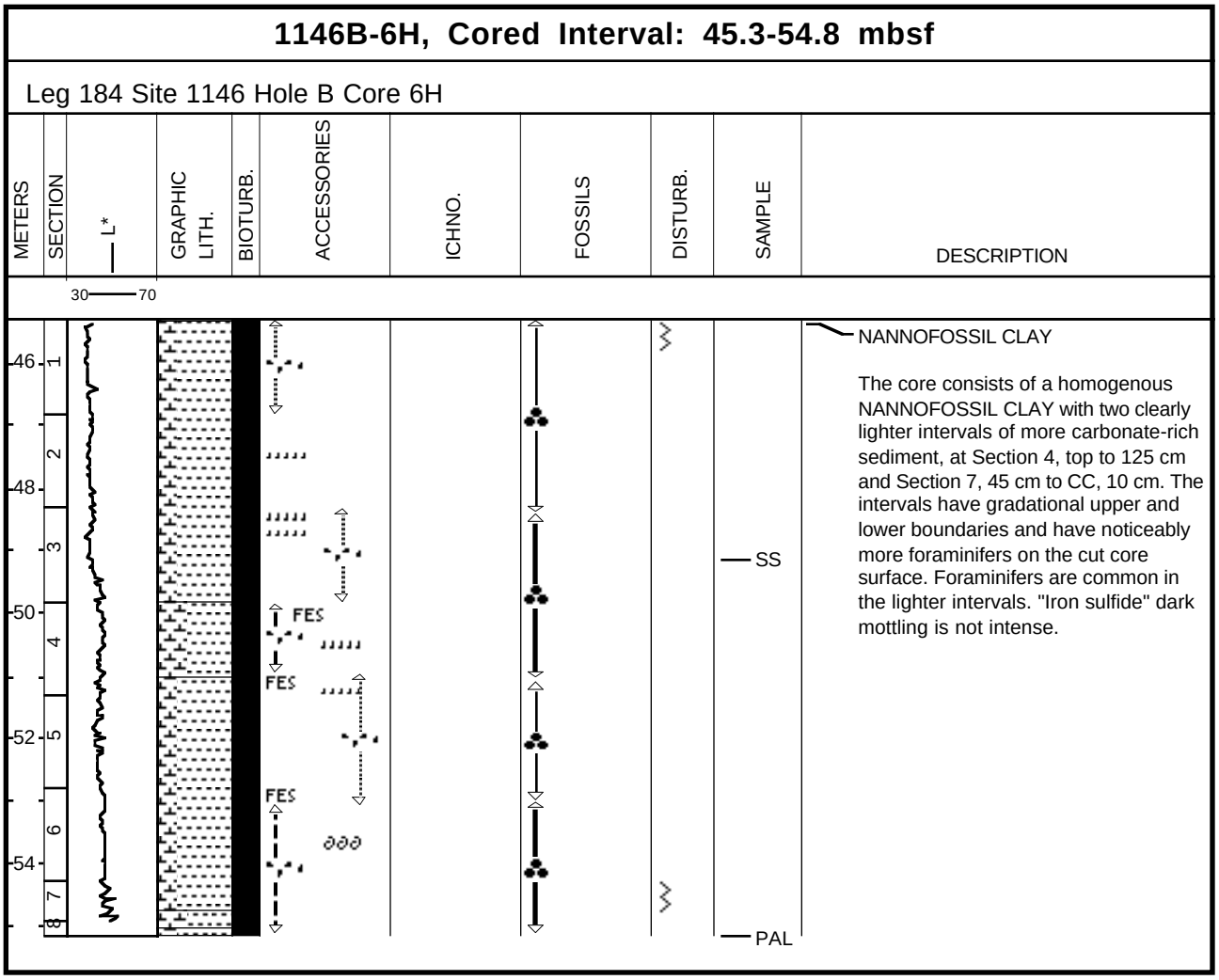
Core Photo


1146B-4H, Cored Interval: 26.3-35.8 mbsf
Leg 184 Site 1146 Hole B Core 4H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
28
30
32
34
1
2
3
4
5
6
7
FES
FES
SS
PAL
NANNOFOSSIL CLAY
The core consists of a completely homogenous NANNOFOSSIL CLAY. "Iron sulfide" dark mottling is present but not intense. Biogenic components visible on the cut core surface include planktonic and benthic foraminifers, and small pockets filled with sponge spicules.

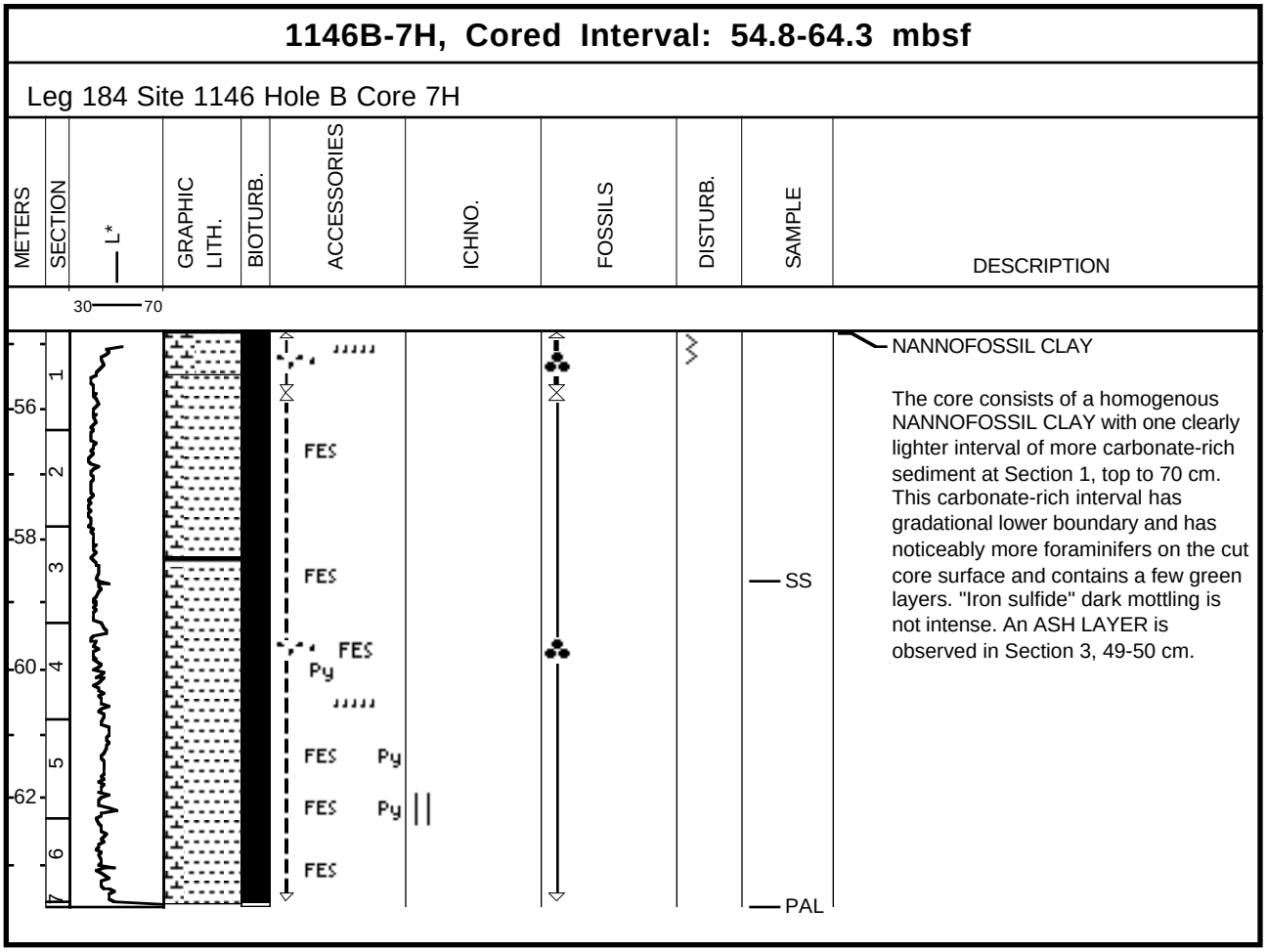
Core Photo


1146B-5H, Cored Interval: 35.8-45.3 mbsf
Leg 184 Site 1146 Hole B Core 5H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
38
40
42
44
1
2
3
4
5
6
7
FES
FES
FES
SS
SS
PAL
NANNOFOSSIL CLAY
The core consists of a homogenous NANNOFOSSIL CLAY with two clearly lighter intervals of more carbonate-rich sediment at Section 3, top to 60 cm and Section 5, 10-100 cm. These intervals have gradational upper and lower boundaries and have noticeably more foraminifers on the cut core surface. Well defined green clay layers are only seen within the carbonate-rich intervals. Iron sulfide dark mottling is present locally but is not intense.

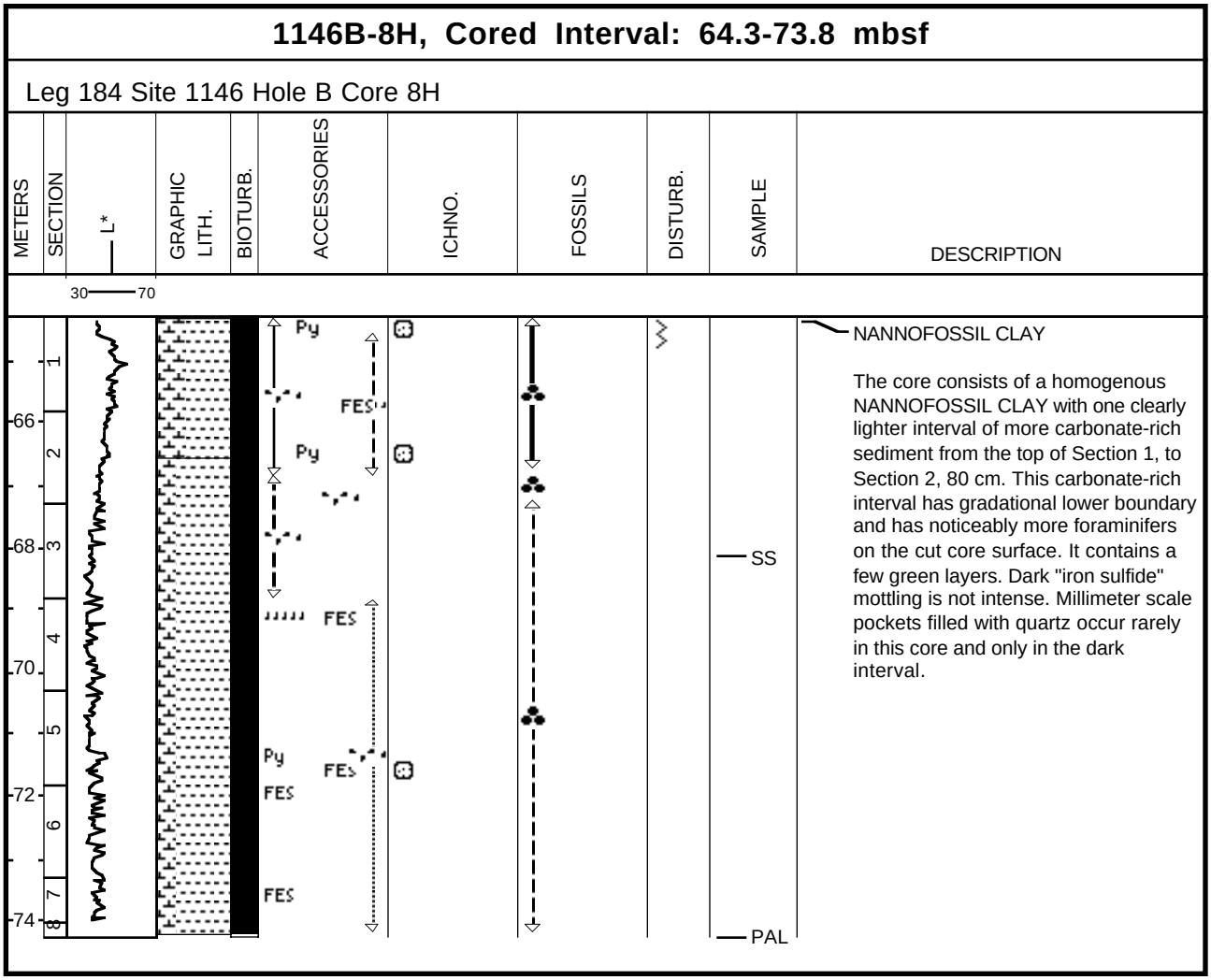
Core Photo


1146B-6H, Cored Interval: 45.3-54.8 mbsf
Leg 184 Site 1146 Hole B Core 6H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
46
48
50
52
54
1
2
3
4
5
6
7
FES
FES
FES
SS
PAL
NANNOFOSSIL CLAY
The core consists of a homogenous NANNOFOSSIL CLAY with two clearly lighter intervals of more carbonate-rich sediment, at Section 4, top to 125 cm and Section 7, 45 cm to CC, 10 cm. The intervals have gradational upper and lower boundaries and have noticeably more foraminifers on the cut core surface. Foraminifers are common in the lighter intervals. "Iron sulfide" dark mottling is not intense.

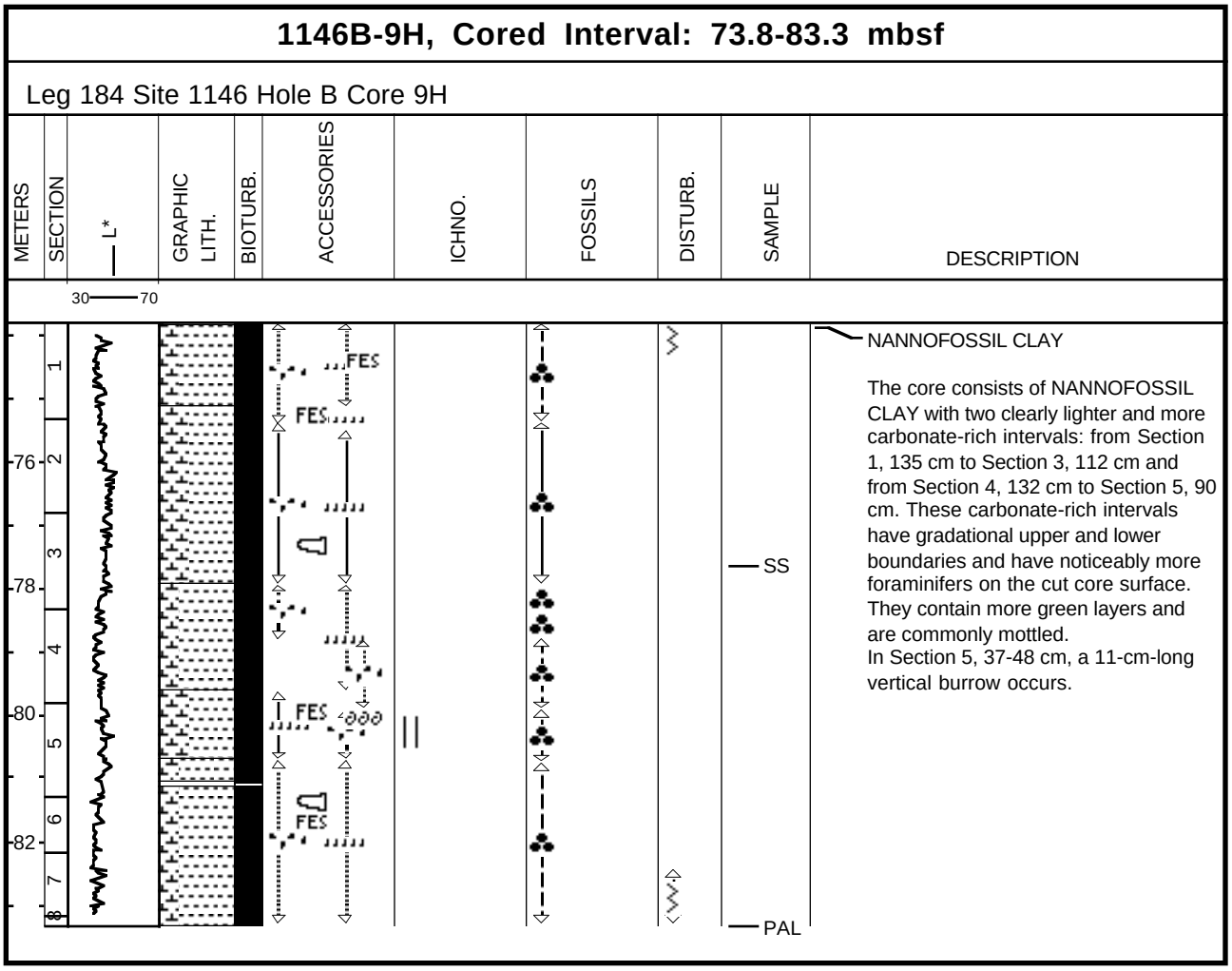
Core Photo


1146B-7H, Cored Interval: 54.8-64.3 mbsf
Leg 184 Site 1146 Hole B Core 7H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
56
58
60
62
1
2
3
4
5
6
7
FES
FES
FES
Py
FES
Py
FES
Py
FES
SS
PAL
NANNOFOSSIL CLAY
The core consists of a homogenous NANNOFOSSIL CLAY with one clearly lighter interval of more carbonate-rich sediment at Section 1, top to 70 cm. This carbonate-rich interval has gradational lower boundary and has noticeably more foraminifers on the cut core surface and contains a few green layers. "Iron sulfide" dark mottling is not intense. An ASH LAYER is observed in Section 3, 49-50 cm.

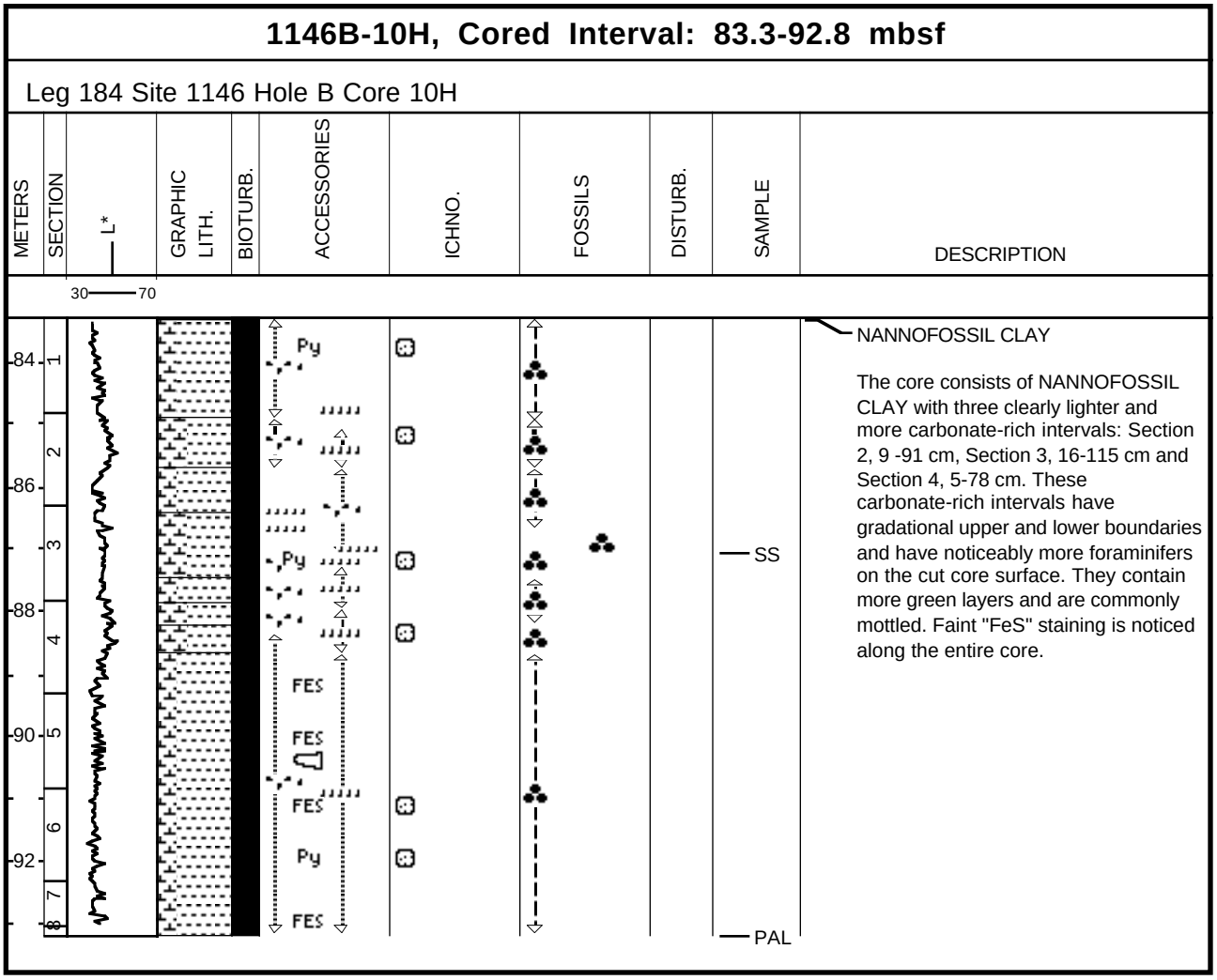
Core Photo


1146B-8H, Cored Interval: 64.3-73.8 mbsf
Leg 184 Site 1146 Hole B Core 8H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
66
68
70
72
74
1
2
3
4
5
6
7
Py
FES
SS
PAL
NANNOFOSSIL CLAY
The core consists of a homogenous NANNOFOSSIL CLAY with one clearly lighter interval of more carbonate-rich sediment from the top of Section 1, to Section 2, 80 cm. This carbonate-rich interval has gradational lower boundary and has noticeably more foraminifers on the cut core surface. It contains a few green layers. Dark "iron sulfide" mottling is not intense. Millimeter scale pockets filled with quartz occur rarely in this core and only in the dark interval.

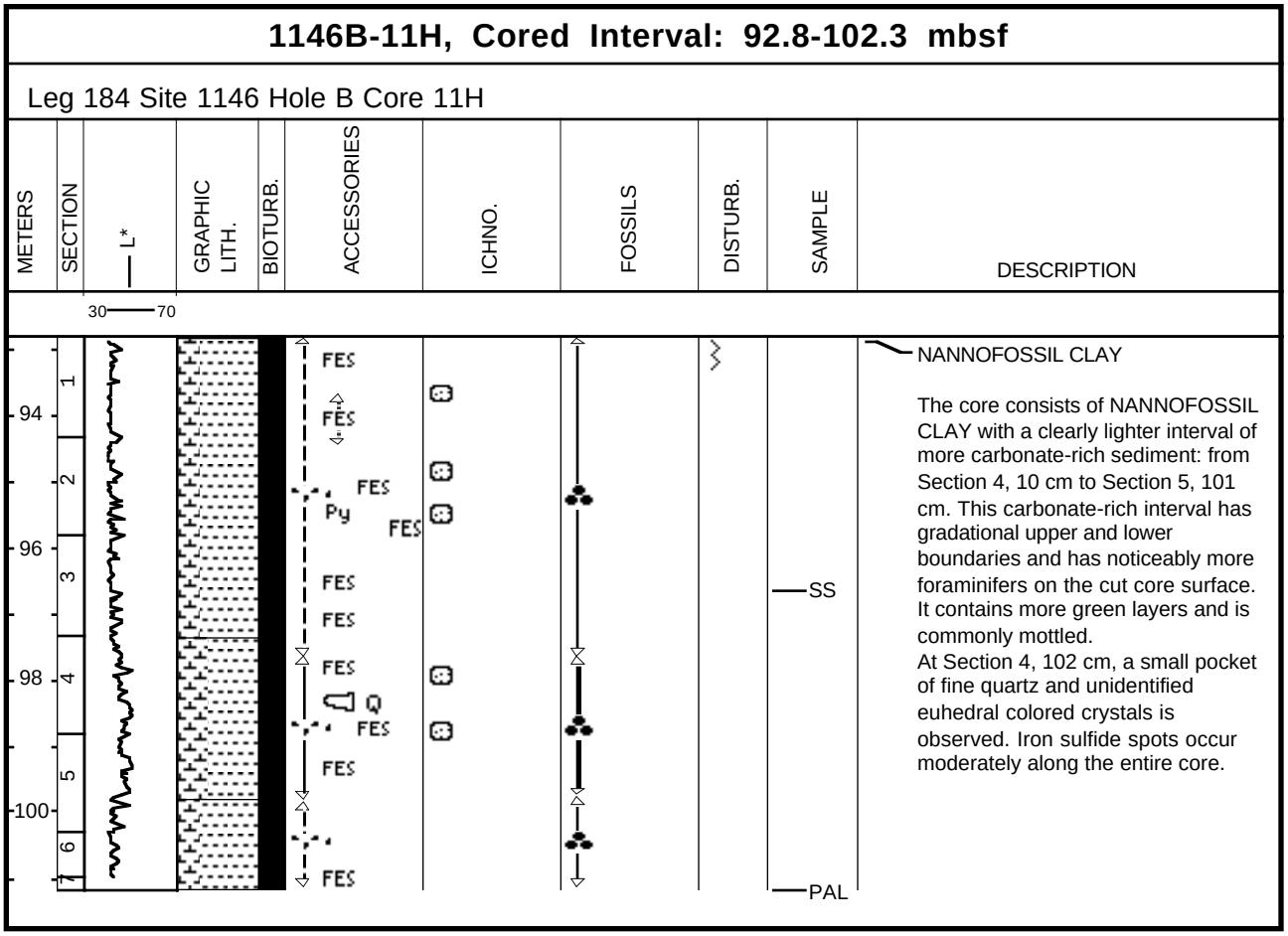
Core Photo


1146B-9H, Cored Interval: 73.8-83.3 mbsf
Leg 184 Site 1146 Hole B Core 9H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
76
78
80
82
1
2
3
4
5
6
7
FES
SS
PAL
NANNOFOSSIL CLAY
The core consists of NANNOFOSSIL CLAY with two clearly lighter and more carbonate-rich intervals: from Section 1, 135 cm to Section 3, 112 cm and from Section 4, 132 cm to Section 5, 90 cm. These carbonate-rich intervals have gradational upper and lower boundaries and have noticeably more foraminifers on the cut core surface. They contain more green layers and are commonly mottled.
In Section 5, 37-48 cm, a 11-cm-long vertical burrow occurs.

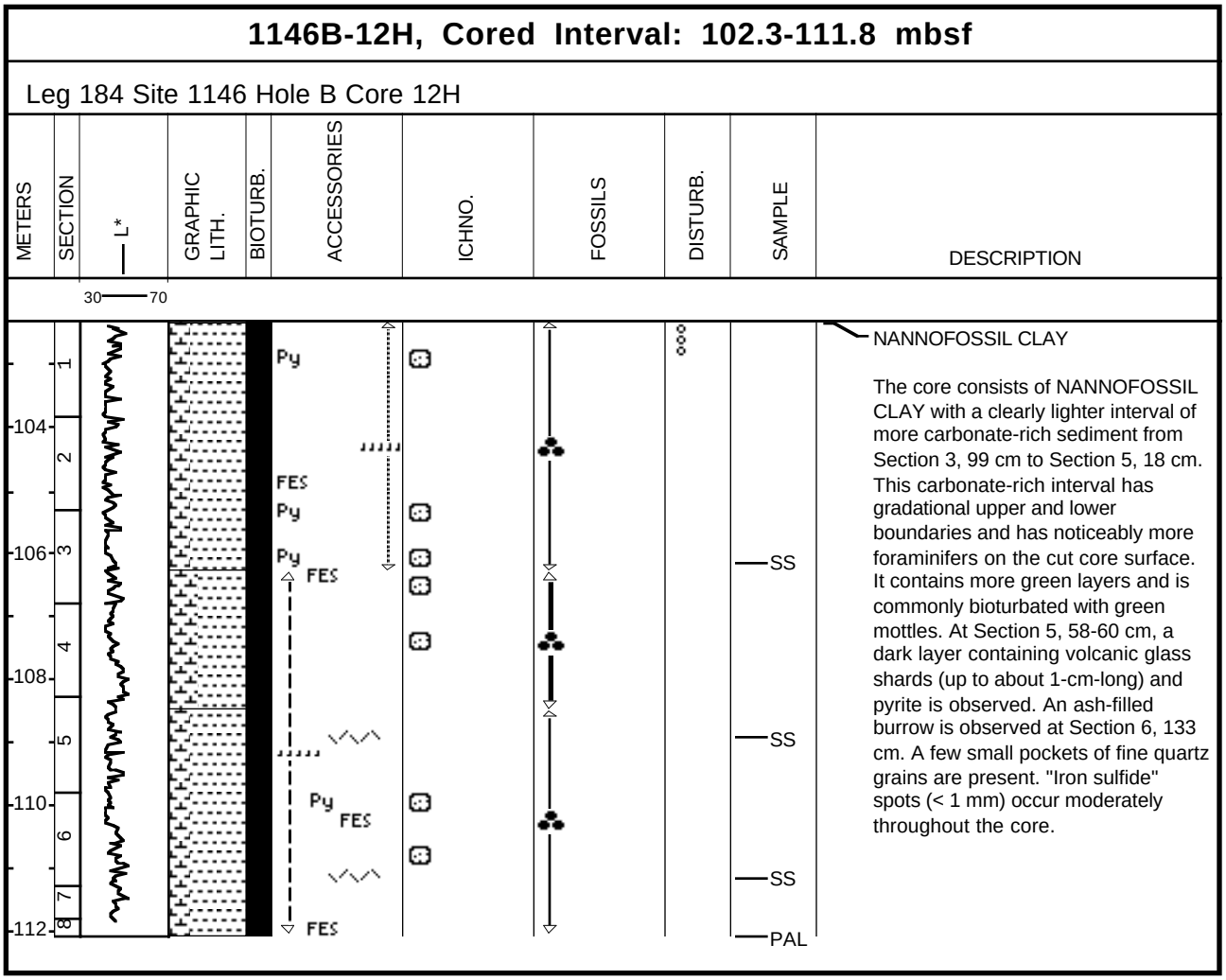
Core Photo


1146B-10H, Cored Interval: 83.3-92.8 mbsf
Leg 184 Site 1146 Hole B Core 10H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
84
86
88
90
92
1
2
3
4
5
6
7
Py
Py
FES
FES
FES
Py
FES
SS
PAL
NANNOFOSSIL CLAY
The core consists of NANNOFOSSIL CLAY with three clearly lighter and more carbonate-rich intervals: Section 2, 9 -91 cm, Section 3, 16-115 cm and Section 4, 5-78 cm. These carbonate-rich intervals have gradational upper and lower boundaries and have noticeably more foraminifers on the cut core surface. They contain more green layers and are commonly mottled. Faint "FeS" staining is noticed along the entire core.

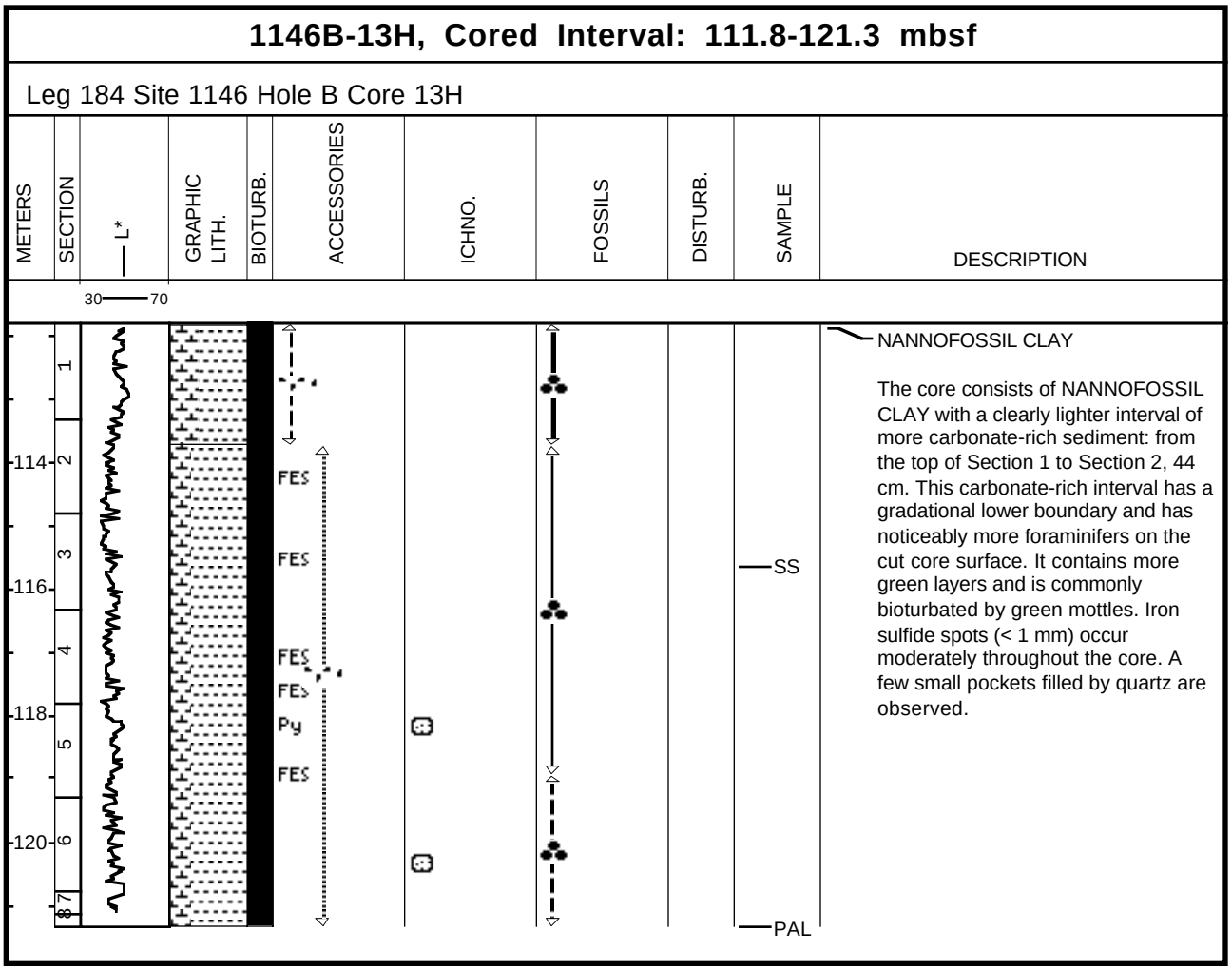
Core Photo


1146B-11H, Cored Interval: 92.8-102.3 mbsf
Leg 184 Site 1146 Hole B Core 11H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
94
96
98
100
1
2
3
4
5
6
FES
Py
Q
SS
PAL
NANNOFOSSIL CLAY
The core consists of NANNOFOSSIL CLAY with a clearly lighter interval of more carbonate-rich sediment: from Section 4, 10 cm to Section 5, 101 cm. This carbonate-rich interval has gradational upper and lower boundaries and has noticeably more foraminifers on the cut core surface. It contains more green layers and is commonly mottled.
At Section 4, 102 cm, a small pocket of fine quartz and unidentified euhedral colored crystals is observed. Iron sulfide spots occur moderately along the entire core.

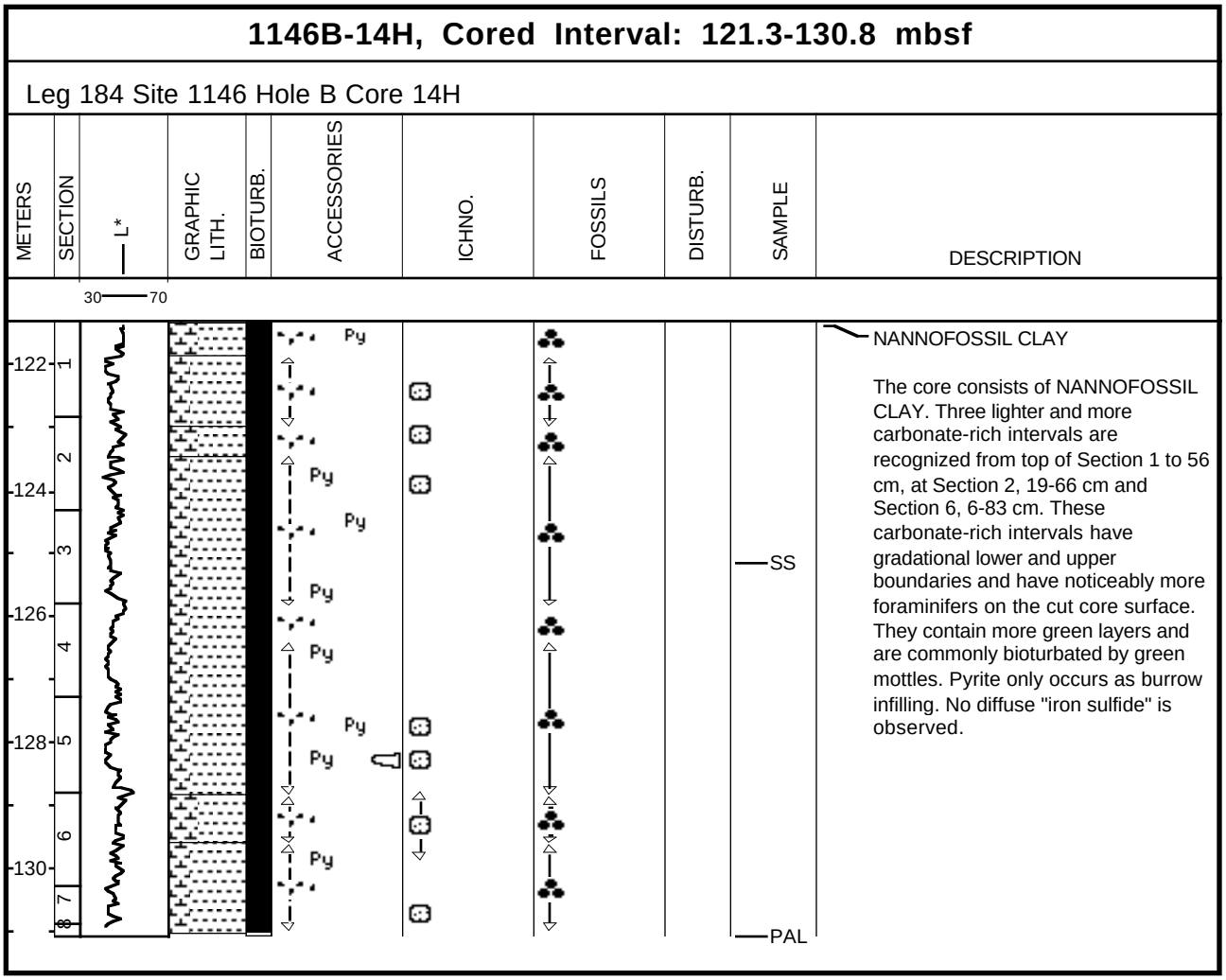
Core Photo


1146B-12H, Cored Interval: 102.3-111.8 mbsf
Leg 184 Site 1146 Hole B Core 12H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
104
106
108
110
112
1
2
3
4
5
6
7
8
Py
FES
Py
Py
FES
Py
FES
FES
SS
SS
SS
PAL
NANNOFOSSIL CLAY
The core consists of NANNOFOSSIL CLAY with a clearly lighter interval of more carbonate-rich sediment from Section 3, 99 cm to Section 5, 18 cm. This carbonate-rich interval has gradational upper and lower boundaries and has noticeably more foraminifers on the cut core surface. It contains more green layers and is commonly bioturbated with green mottles. At Section 5, 58-60 cm, a dark layer containing volcanic glass shards (up to about 1-cm-long) and pyrite is observed. An ash-filled burrow is observed at Section 6, 133 cm. A few small pockets of fine quartz grains are present. "Iron sulfide" spots (< 1 mm) occur moderately throughout the core.

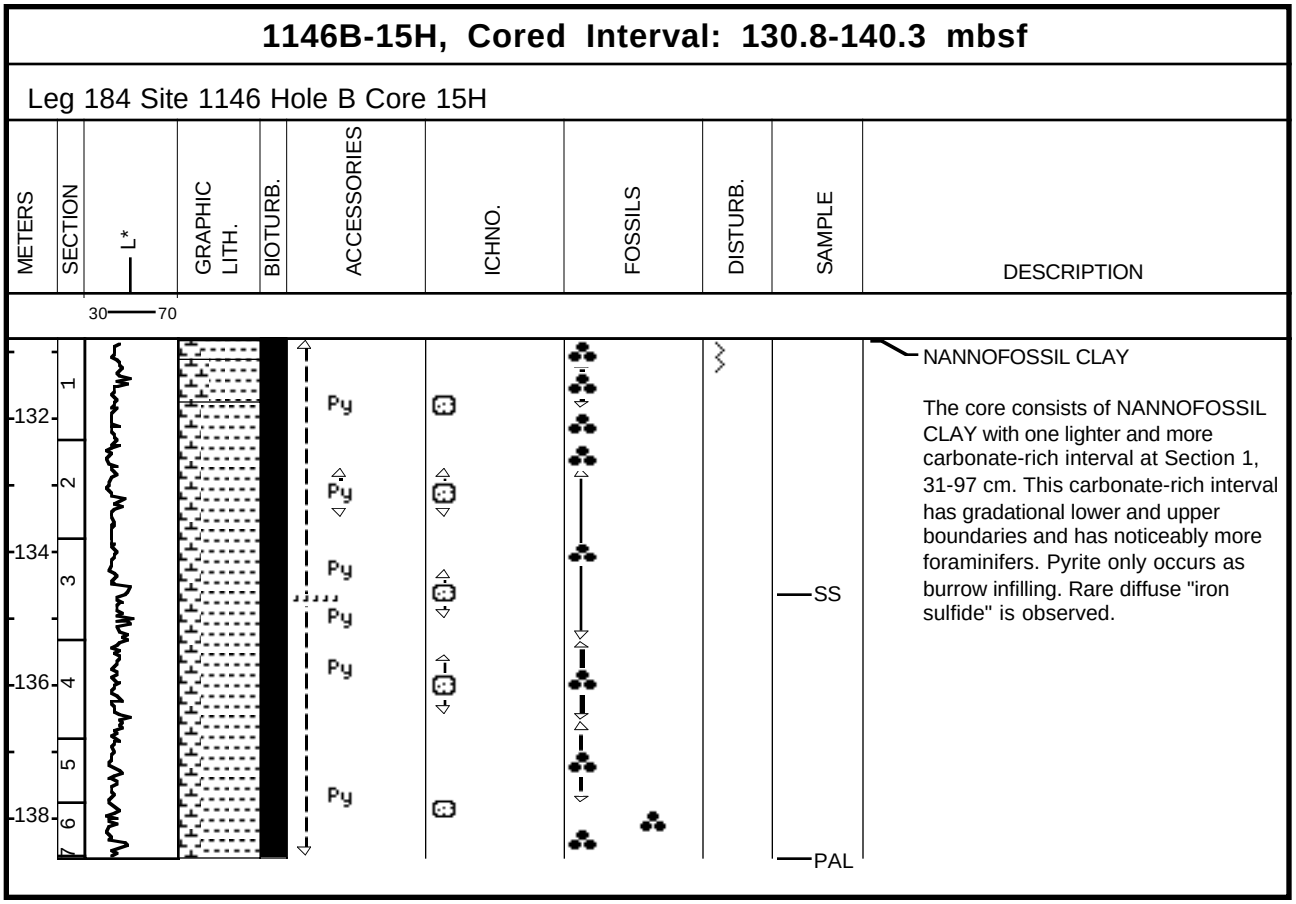
Core Photo


1146B-13H, Cored Interval: 111.8-121.3 mbsf
Leg 184 Site 1146 Hole B Core 13H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
114
116
118
120
1
2
3
4
5
6
7
FES
FES
FES
FES
Py
FES
SS
PAL
NANNOFOSSIL CLAY
The core consists of NANNOFOSSIL CLAY with a clearly lighter interval of more carbonate-rich sediment: from the top of Section 1 to Section 2, 44 cm. This carbonate-rich interval has a gradational lower boundary and has noticeably more foraminifers on the cut core surface. It contains more green layers and is commonly bioturbated by green mottles. Iron sulfide spots (< 1 mm) occur moderately throughout the core. A few small pockets filled by quartz are observed.

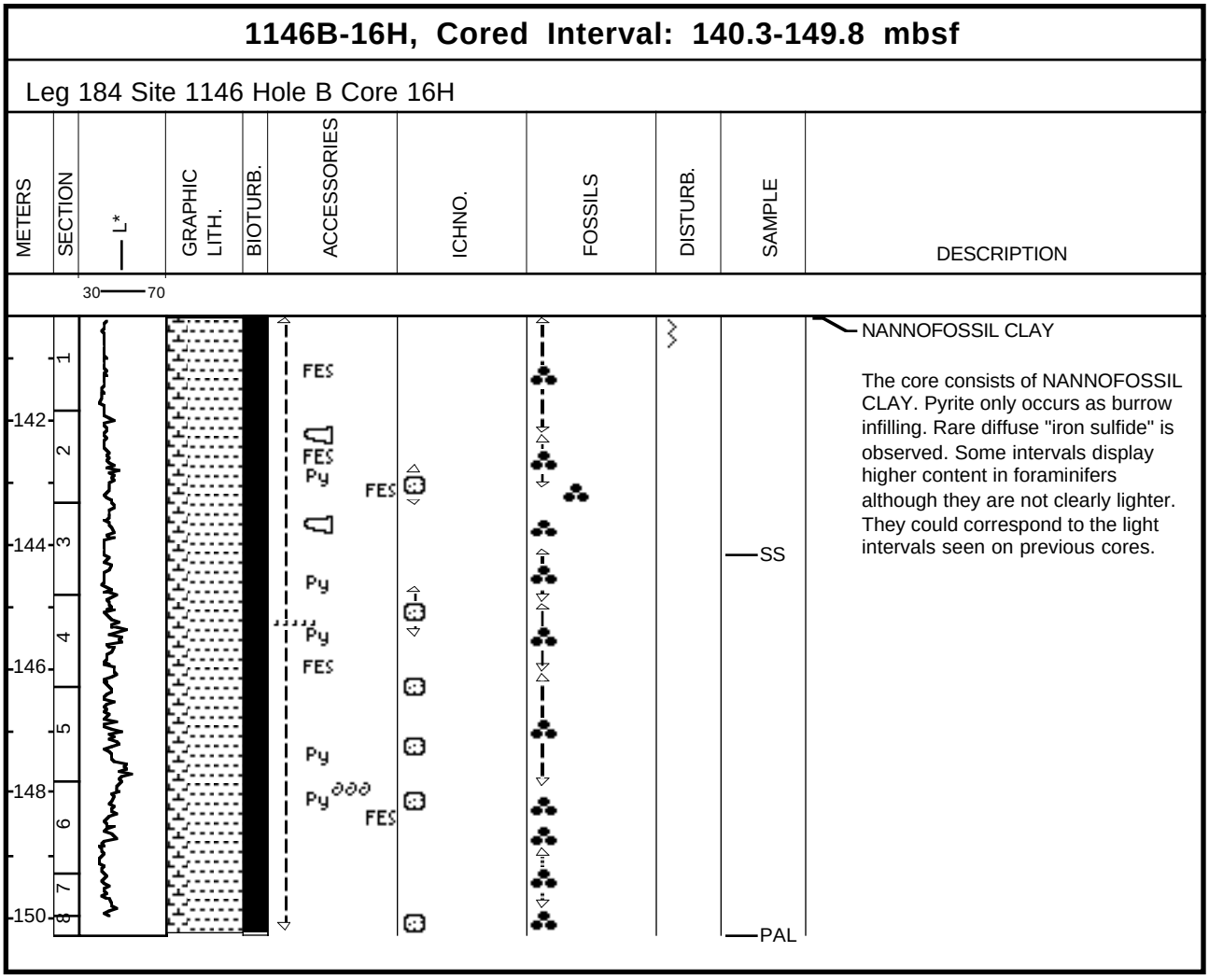
Core Photo


1146B-14H, Cored Interval: 121.3-130.8 mbsf
Leg 184 Site 1146 Hole B Core 14H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
122
124
126
128
130
1
2
3
4
5
6
7
Py
SS
PAL
NANNOFOSSIL CLAY
The core consists of NANNOFOSSIL CLAY. Three lighter and more carbonate-rich intervals are recognized from top of Section 1 to 56 cm, at Section 2, 19-66 cm and Section 6, 6-83 cm. These carbonate-rich intervals have gradational lower and upper boundaries and have noticeably more foraminifers on the cut core surface. They contain more green layers and are commonly bioturbated by green mottles. Pyrite only occurs as burrow infilling. No diffuse "iron sulfide" is observed.

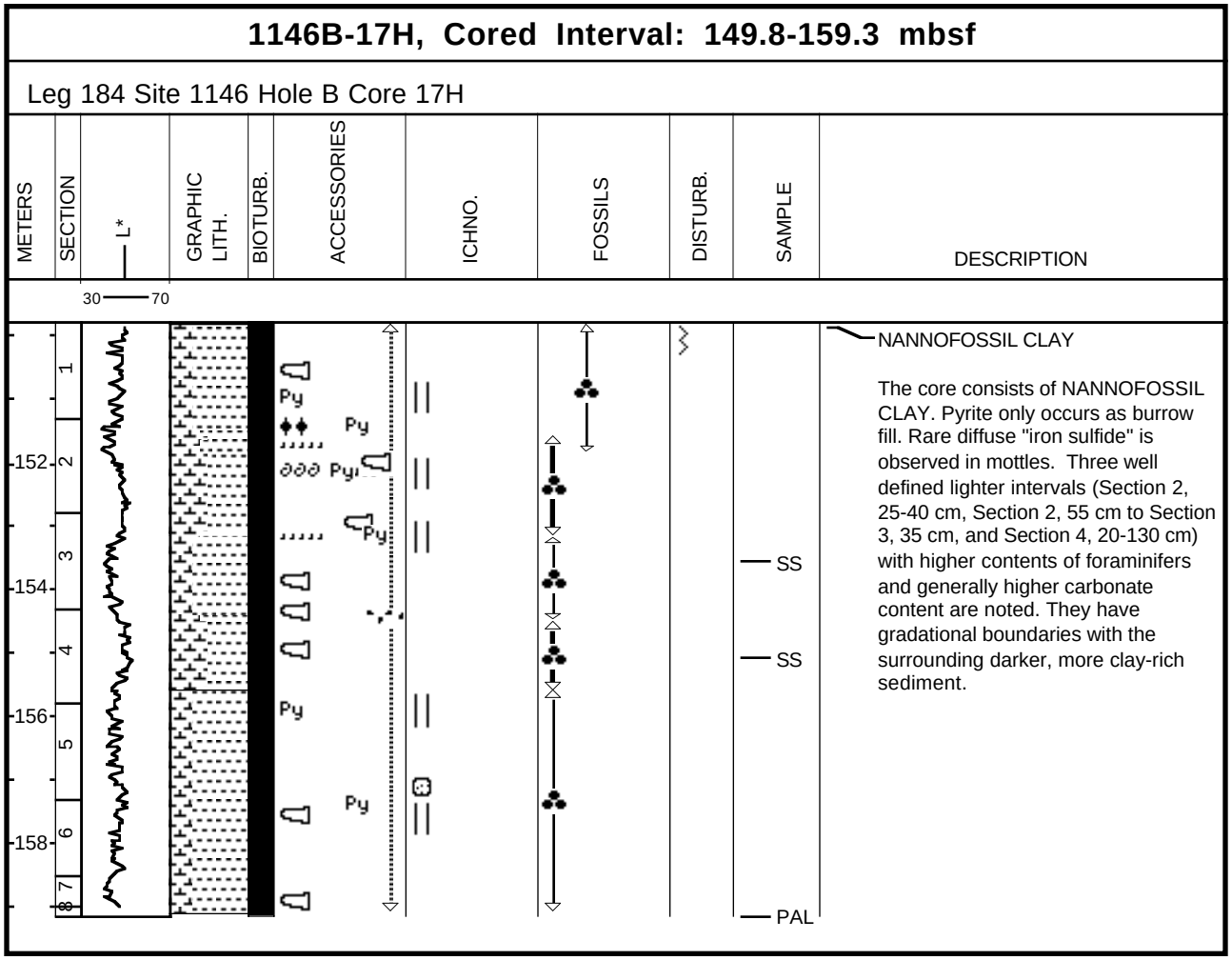
Core Photo


1146B-15H, Cored Interval: 130.8-140.3 mbsf
Leg 184 Site 1146 Hole B Core 15H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
132
134
136
138
1
2
3
4
5
6
Py
SS
PAL
NANNOFOSSIL CLAY
The core consists of NANNOFOSSIL CLAY with one lighter and more carbonate-rich interval at Section 1, 31-97 cm. This carbonate-rich interval has gradational lower and upper boundaries and has noticeably more foraminifers. Pyrite only occurs as burrow infilling. Rare diffuse "iron sulfide" is observed.

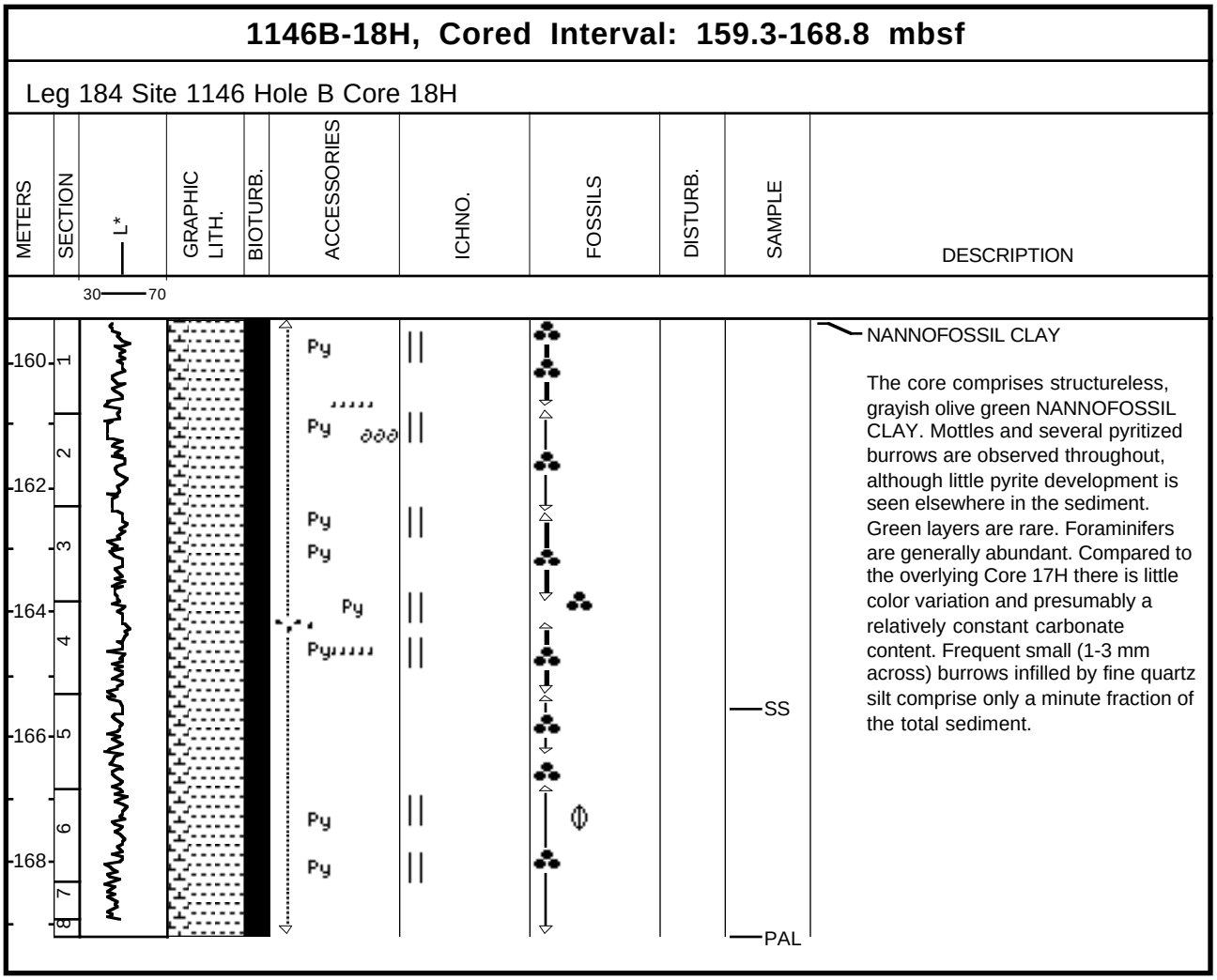
Core Photo


1146B-16H, Cored Interval: 140.3-149.8 mbsf
Leg 184 Site 1146 Hole B Core 16H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
142
144
146
148
150
1
2
3
4
5
6
7
8
FES
FES
Py
FES
Py
Py
FES
Py
Py
FES
SS
PAL
NANNOFOSSIL CLAY
The core consists of NANNOFOSSIL CLAY. Pyrite only occurs as burrow infilling. Rare diffuse "iron sulfide" is observed. Some intervals display higher content in foraminifers although they are not clearly lighter. They could correspond to the light intervals seen on previous cores.

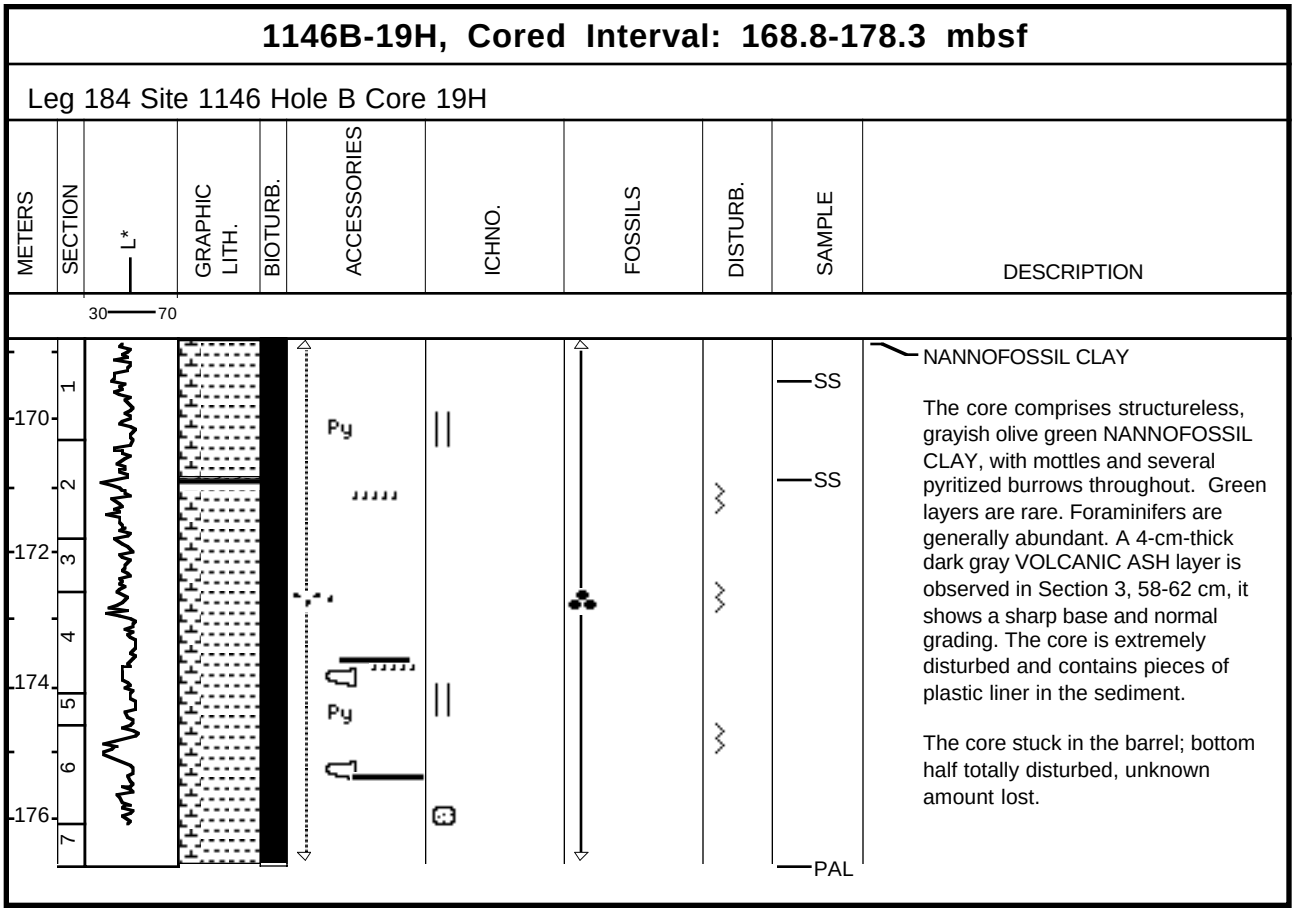
Core Photo


1146B-17H, Cored Interval: 149.8-159.3 mbsf
Leg 184 Site 1146 Hole B Core 17H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
152
154
156
158
1
2
3
4
5
6
7
Py
SS
SS
PAL
NANNOFOSSIL CLAY
The core consists of NANNOFOSSIL CLAY. Pyrite only occurs as burrow fill. Rare diffuse "iron sulfide" is observed in mottles. Three well defined lighter intervals (Section 2, 25-40 cm, Section 2, 55 cm to Section 3, 35 cm, and Section 4, 20-130 cm) with higher contents of foraminifers and generally higher carbonate content are noted. They have gradational boundaries with the surrounding darker, more clay-rich sediment.

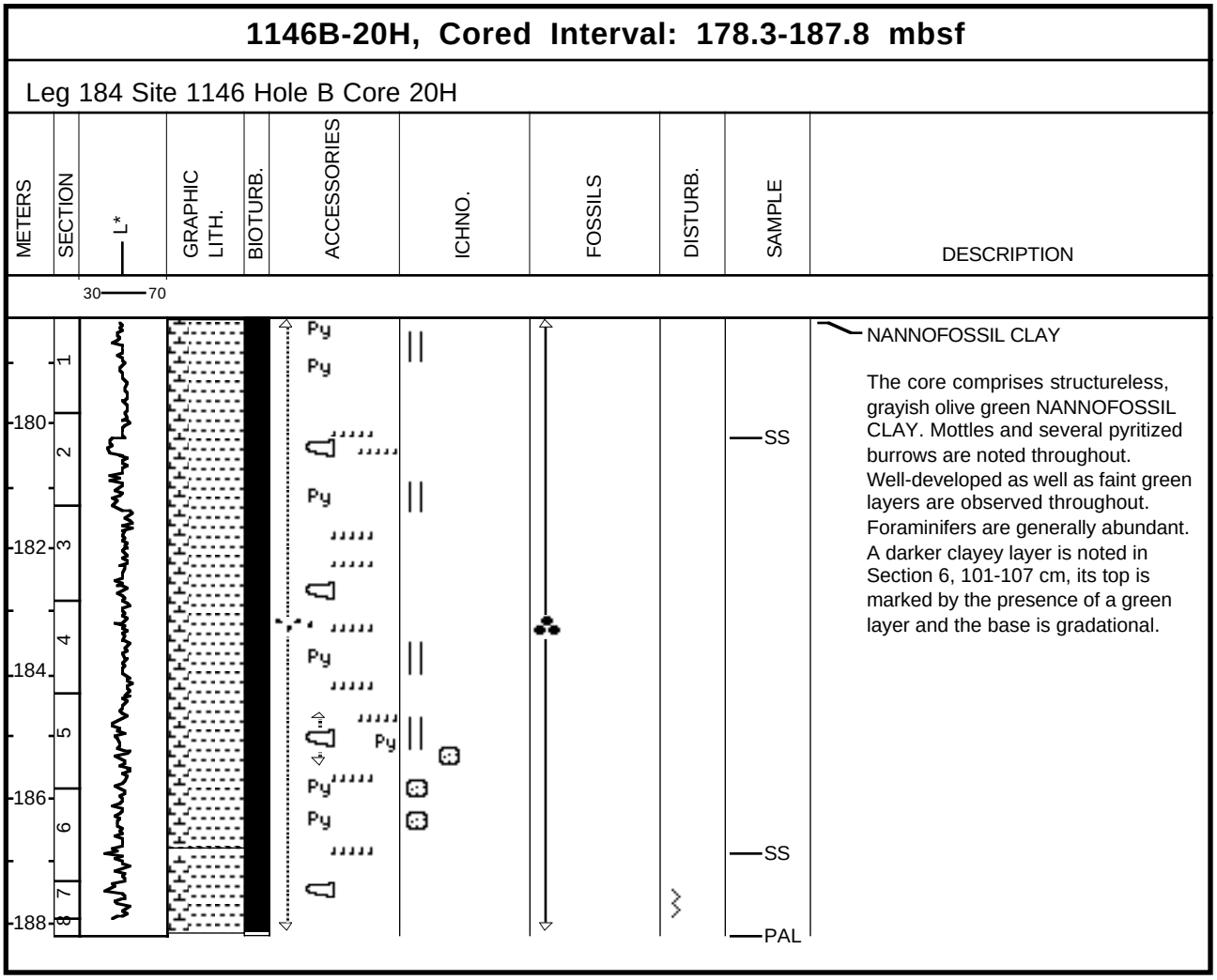
Core Photo


1146B-18H, Cored Interval: 159.3-168.8 mbsf
Leg 184 Site 1146 Hole B Core 18H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
160
162
164
166
168
1
2
3
4
5
6
7
8
Py
SS
PAL
NANNOFOSSIL CLAY
The core comprises structureless, grayish olive green NANNOFOSSIL CLAY. Mottles and several pyritized burrows are observed throughout, although little pyrite development is seen elsewhere in the sediment. Green layers are rare. Foraminifers are generally abundant. Compared to the overlying Core 17H there is little color variation and presumably a relatively constant carbonate content. Frequent small (1-3 mm across) burrows infilled by fine quartz silt comprise only a minute fraction of the total sediment.

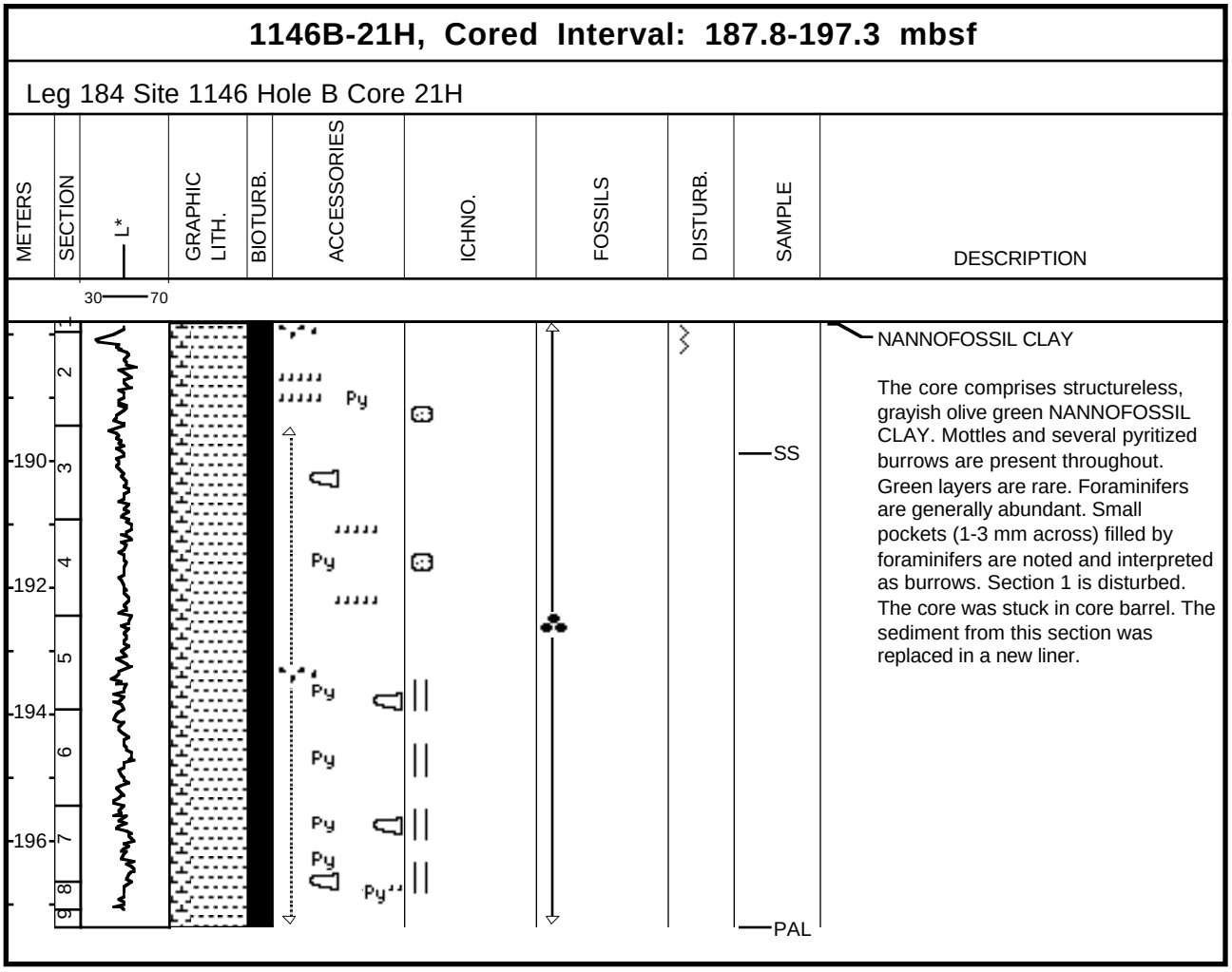
Core Photo


1146B-19H, Cored Interval: 168.8-178.3 mbsf
Leg 184 Site 1146 Hole B Core 19H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
170
172
174
176
1
2
3
4
5
6
7
Py
Py
SS
SS
PAL
NANNOFOSSIL CLAY
The core comprises structureless, grayish olive green NANNOFOSSIL CLAY, with mottles and several pyritized burrows throughout. Green layers are rare. Foraminifers are generally abundant. A 4-cm-thick dark gray VOLCANIC ASH layer is observed in Section 3, 58-62 cm, it shows a sharp base and normal grading. The core is extremely disturbed and contains pieces of plastic liner in the sediment.
The core stuck in the barrel; bottom half totally disturbed, unknown amount lost.

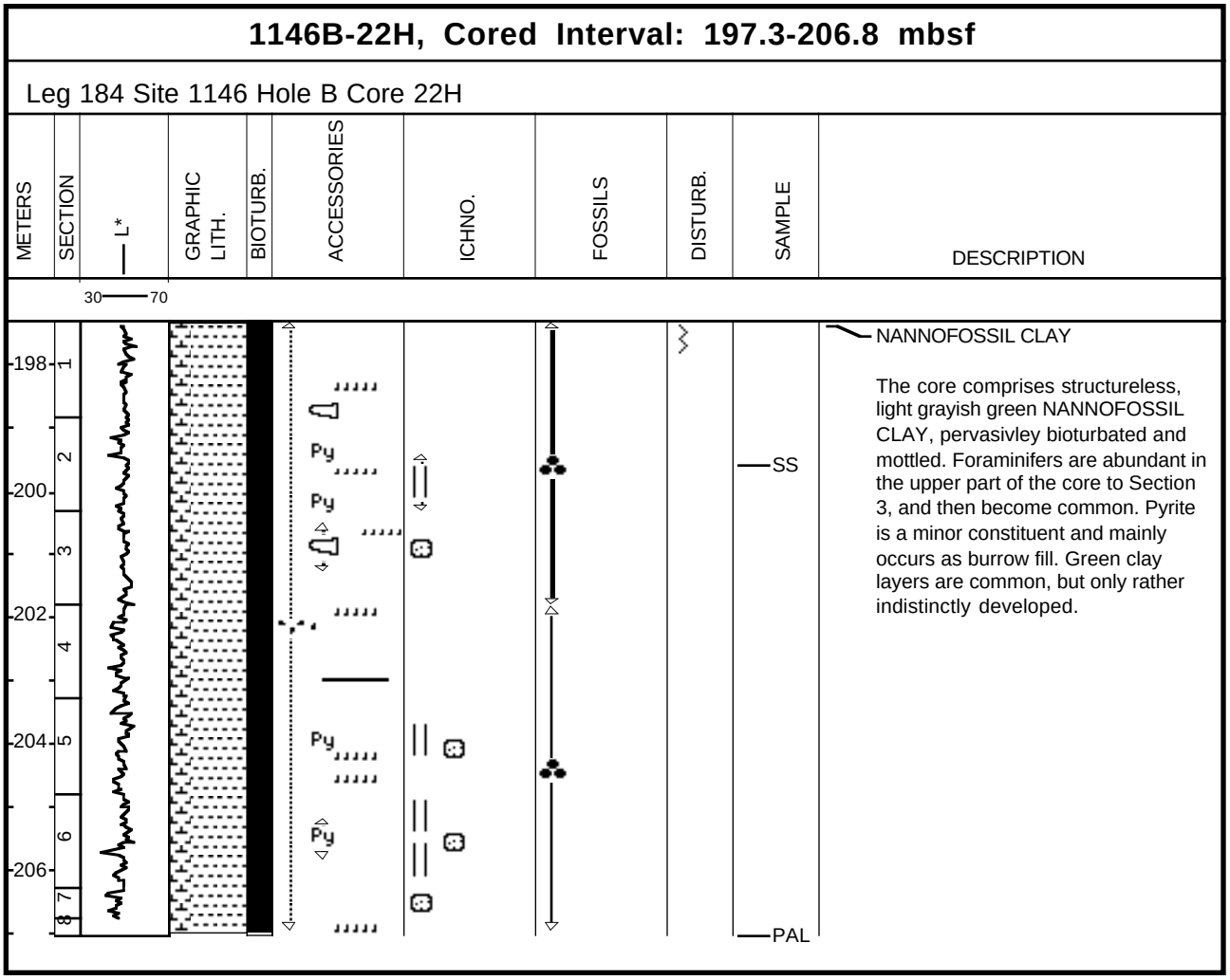
Core Photo


1146B-20H, Cored Interval: 178.3-187.8 mbsf
Leg 184 Site 1146 Hole B Core 20H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
180
182
184
186
188
1
2
3
4
5
6
7
Py
SS
SS
PAL
NANNOFOSSIL CLAY
The core comprises structureless, grayish olive green NANNOFOSSIL CLAY. Mottles and several pyritized burrows are noted throughout. Well-developed as well as faint green layers are observed throughout. Foraminifers are generally abundant. A darker clayey layer is noted in Section 6, 101-107 cm, its top is marked by the presence of a green layer and the base is gradational.

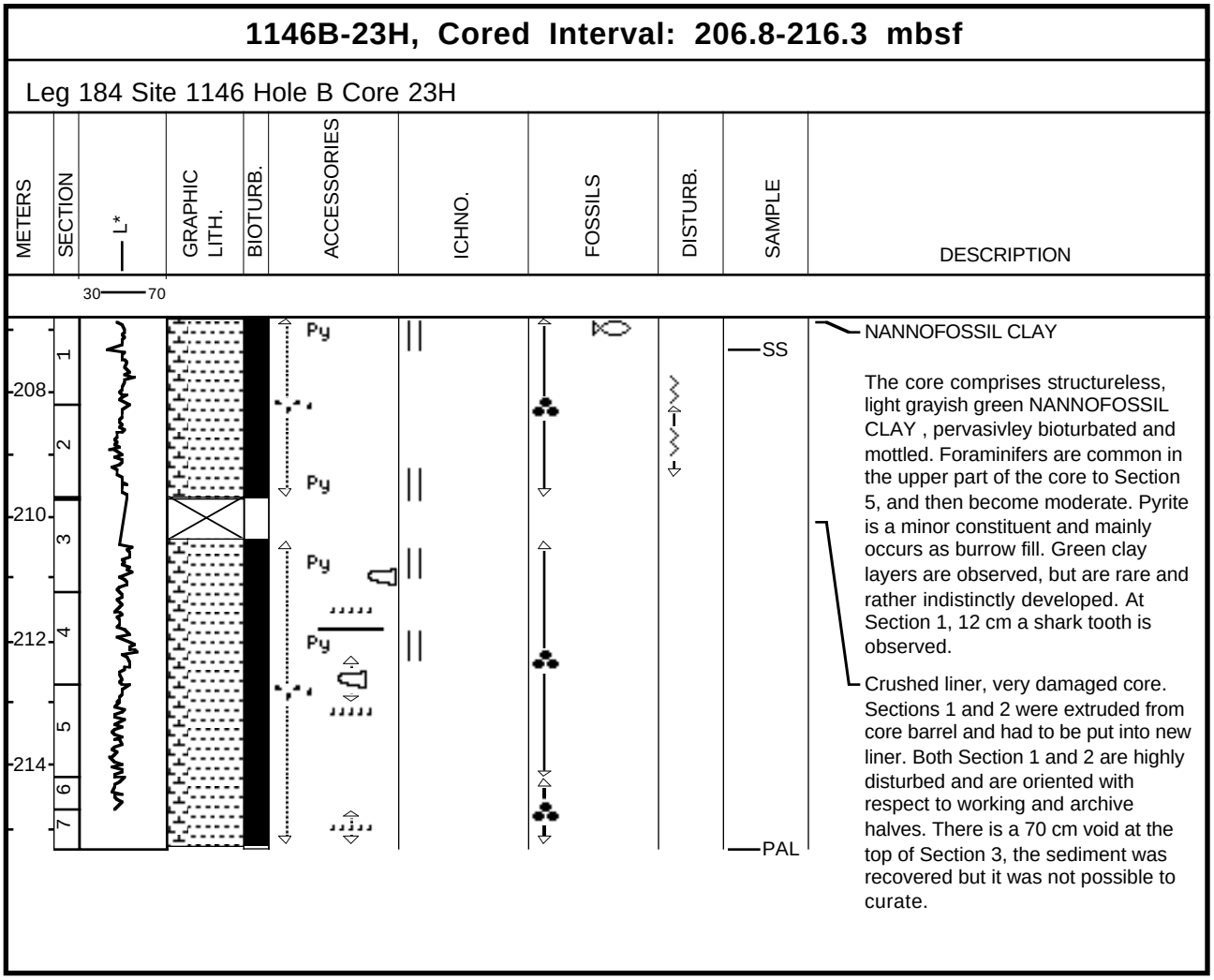
Core Photo


1146B-21H, Cored Interval: 187.8-197.3 mbsf
Leg 184 Site 1146 Hole B Core 21H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
190
192
194
196
1
2
3
4
5
6
7
8
9
Py
SS
PAL
NANNOFOSSIL CLAY
The core comprises structureless, grayish olive green NANNOFOSSIL CLAY. Mottles and several pyritized burrows are present throughout. Green layers are rare. Foraminifers are generally abundant. Small pockets (1-3 mm across) filled by foraminifers are noted and interpreted as burrows. Section 1 is disturbed. The core was stuck in core barrel. The sediment from this section was replaced in a new liner.

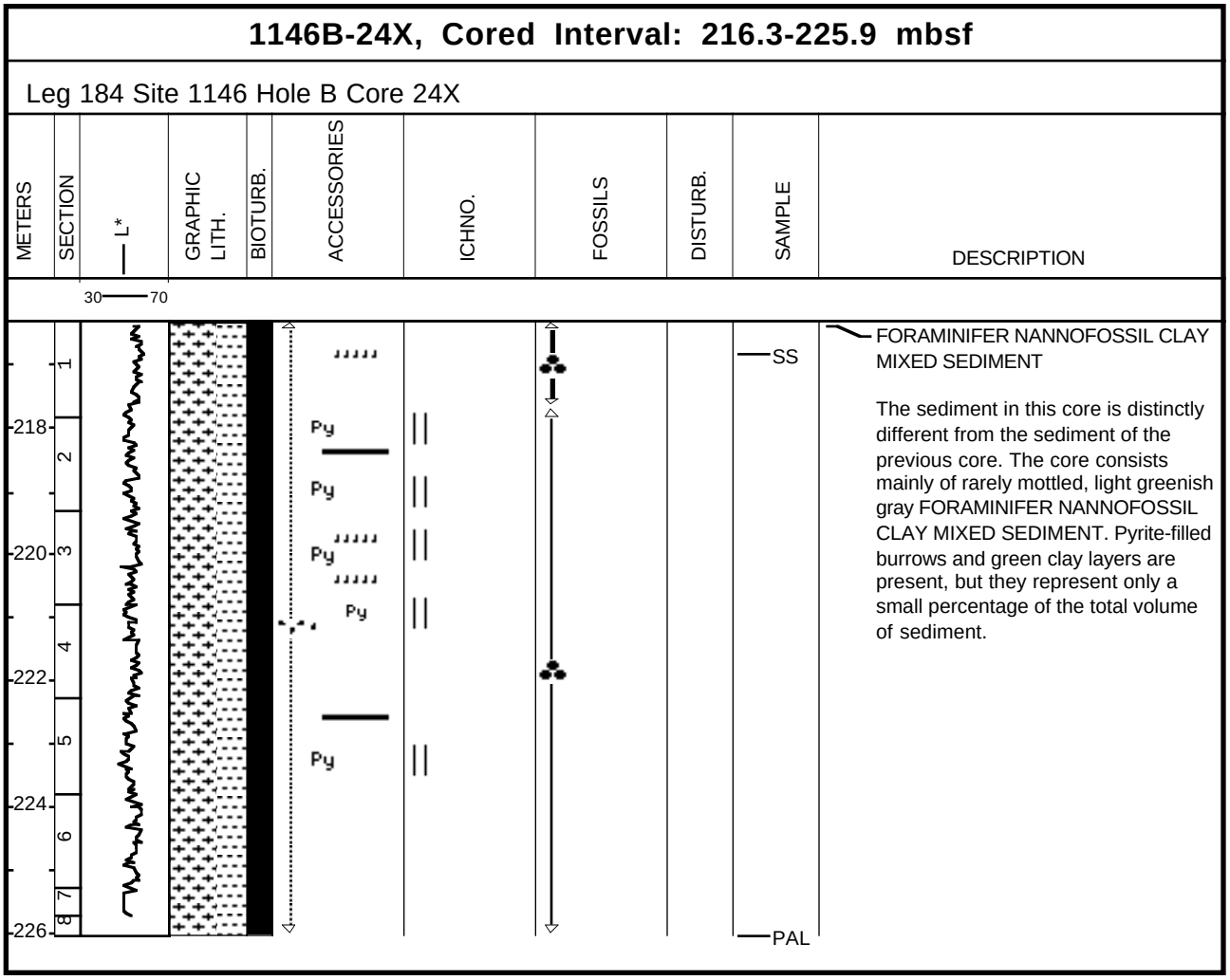
Core Photo


1146B-22H, Cored Interval: 197.3-206.8 mbsf
Leg 184 Site 1146 Hole B Core 22H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
198
200
202
204
206
1
2
3
4
5
6
7
Py
Py
Py
Py
SS
PAL
NANNOFOSSIL CLAY
The core comprises structureless, light grayish green NANNOFOSSIL CLAY, pervasivley bioturbated and mottled. Foraminifers are abundant in the upper part of the core to Section 3, and then become common. Pyrite is a minor constituent and mainly occurs as burrow fill. Green clay layers are common, but only rather indistinctly developed.

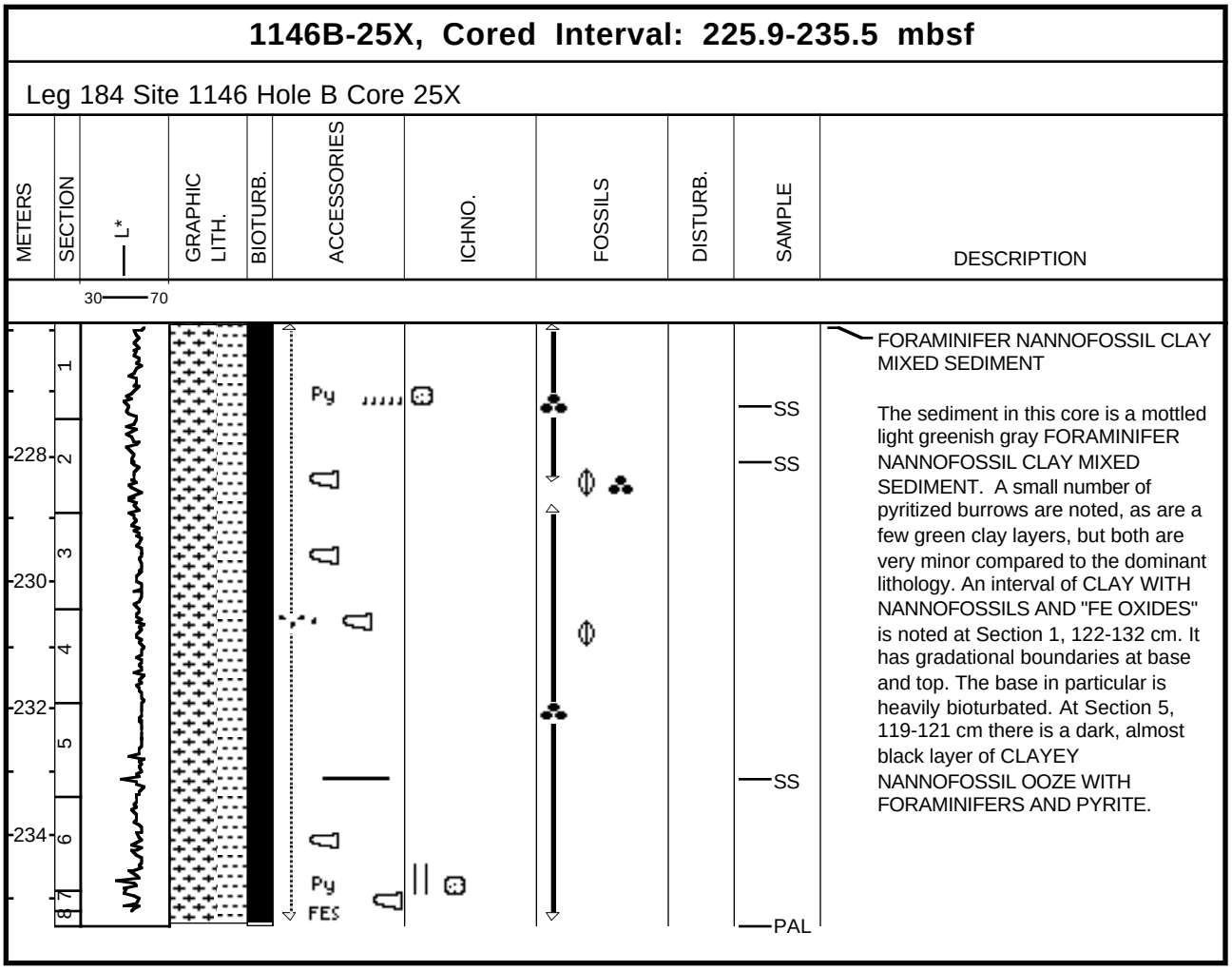
Core Photo


1146B-23H, Cored Interval: 206.8-216.3 mbsf
Leg 184 Site 1146 Hole B Core 23H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
208
210
212
214
1
2
3
4
5
6
7
Py
Py
Py
Py
SS
PAL
NANNOFOSSIL CLAY
The core comprises structureless, light grayish green NANNOFOSSIL CLAY , pervasivley bioturbated and mottled. Foraminifers are common in the upper part of the core to Section 5, and then become moderate. Pyrite is a minor constituent and mainly occurs as burrow fill. Green clay layers are observed, but are rare and rather indistinctly developed. At Section 1, 12 cm a shark tooth is observed.
Crushed liner, very damaged core. Sections 1 and 2 were extruded from core barrel and had to be put into new liner. Both Section 1 and 2 are highly disturbed and are oriented with respect to working and archive halves. There is a 70 cm void at the top of Section 3, the sediment was recovered but it was not possible to curate.

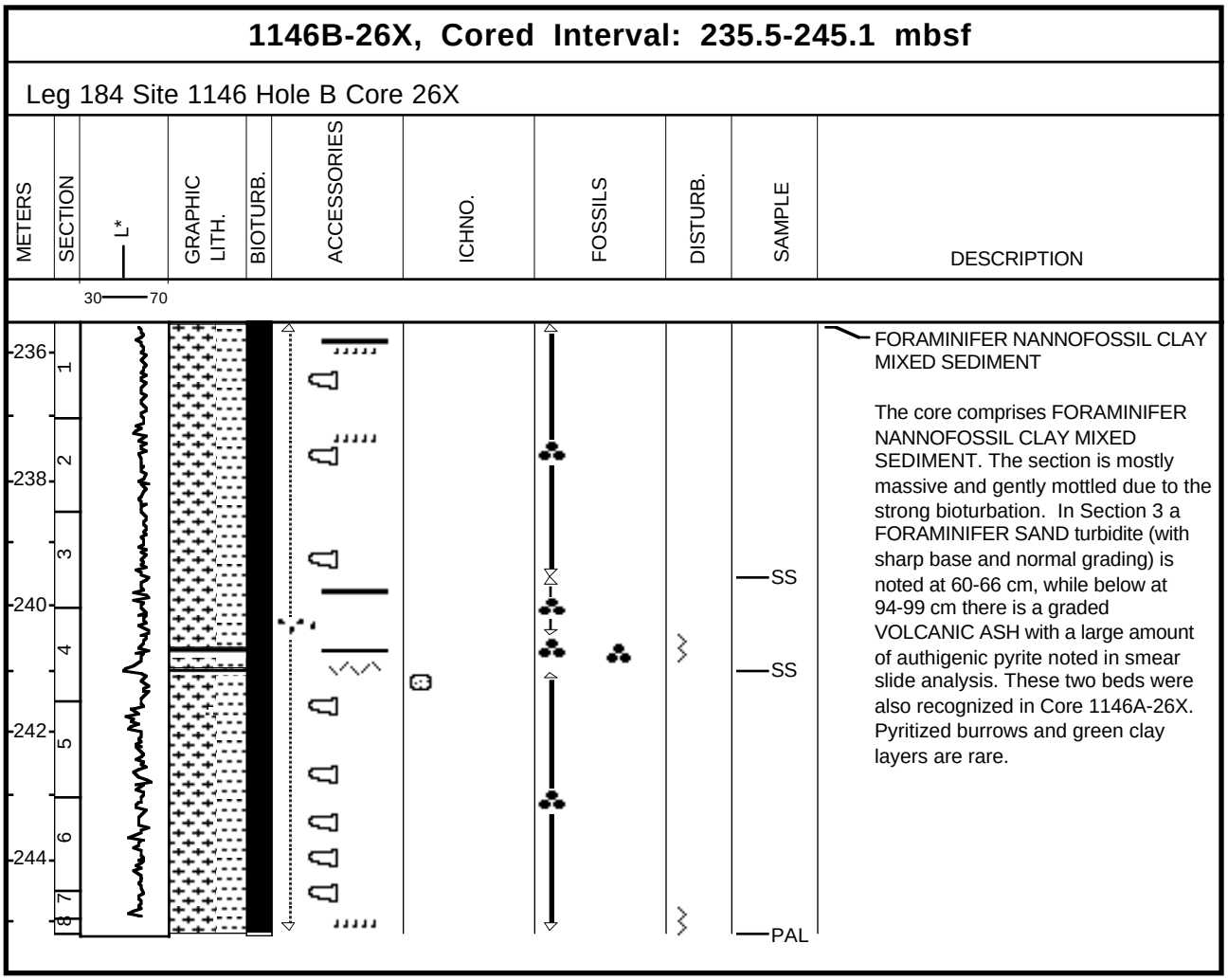
Core Photo


1146B-24X, Cored Interval: 216.3-225.9 mbsf
Leg 184 Site 1146 Hole B Core 24X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
218
220
222
224
226
1
2
3
4
5
6
7
CC
Py
SS
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The sediment in this core is distinctly different from the sediment of the previous core. The core consists mainly of rarely mottled, light greenish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. Pyrite-filled burrows and green clay layers are present, but they represent only a small percentage of the total volume of sediment.

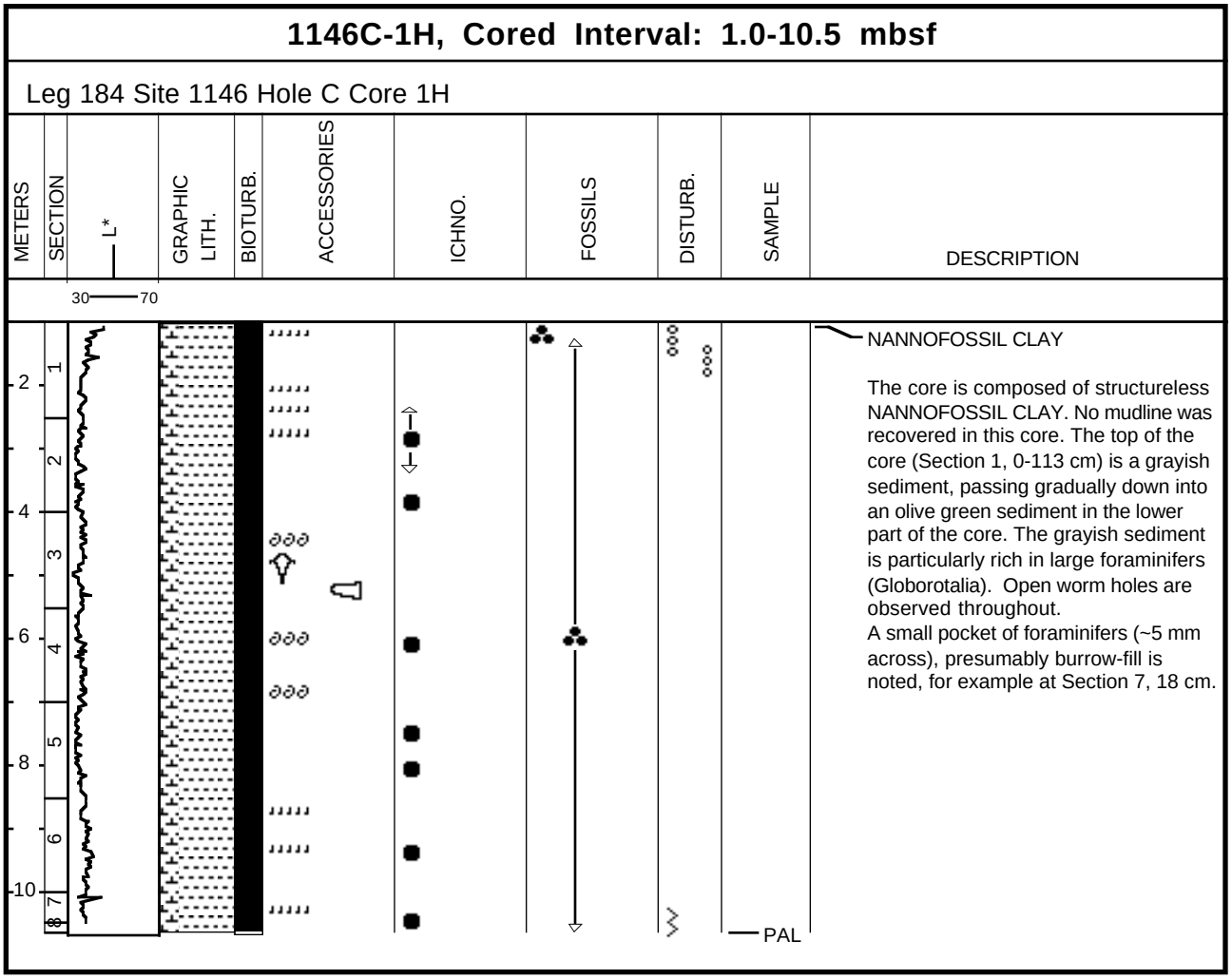
Core Photo


1146B-25X, Cored Interval: 225.9-235.5 mbsf
Leg 184 Site 1146 Hole B Core 25X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
228
230
232
234
1
2
3
4
5
6
7
Py
Py
FES
SS
SS
SS
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The sediment in this core is a mottled light greenish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. A small number of pyritized burrows are noted, as are a few green clay layers, but both are very minor compared to the dominant lithology. An interval of CLAY WITH NANNOFOSSILS AND "FE OXIDES" is noted at Section 1, 122-132 cm. It has gradational boundaries at base and top. The base in particular is heavily bioturbated. At Section 5, 119-121 cm there is a dark, almost black layer of CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS AND PYRITE.

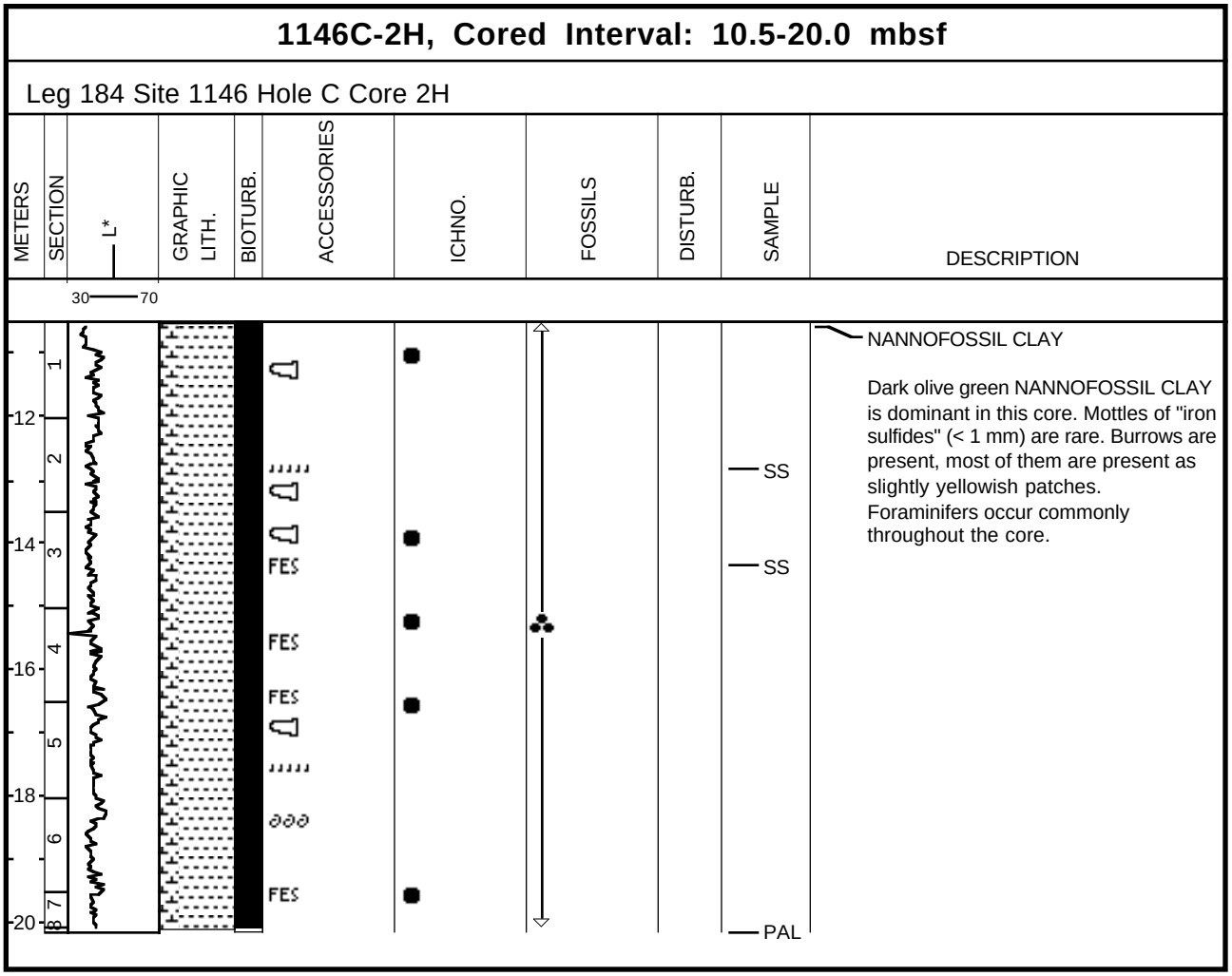
Core Photo


1146B-26X, Cored Interval: 235.5-245.1 mbsf
Leg 184 Site 1146 Hole B Core 26X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
236
238
240
242
244
1
2
3
4
5
6
7
SS
SS
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core comprises FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. The section is mostly massive and gently mottled due to the strong bioturbation. In Section 3 a FORAMINIFER SAND turbidite (with sharp base and normal grading) is noted at 60-66 cm, while below at 94-99 cm there is a graded VOLCANIC ASH with a large amount of authigenic pyrite noted in smear slide analysis. These two beds were also recognized in Core 1146A-26X. Pyritized burrows and green clay layers are rare.

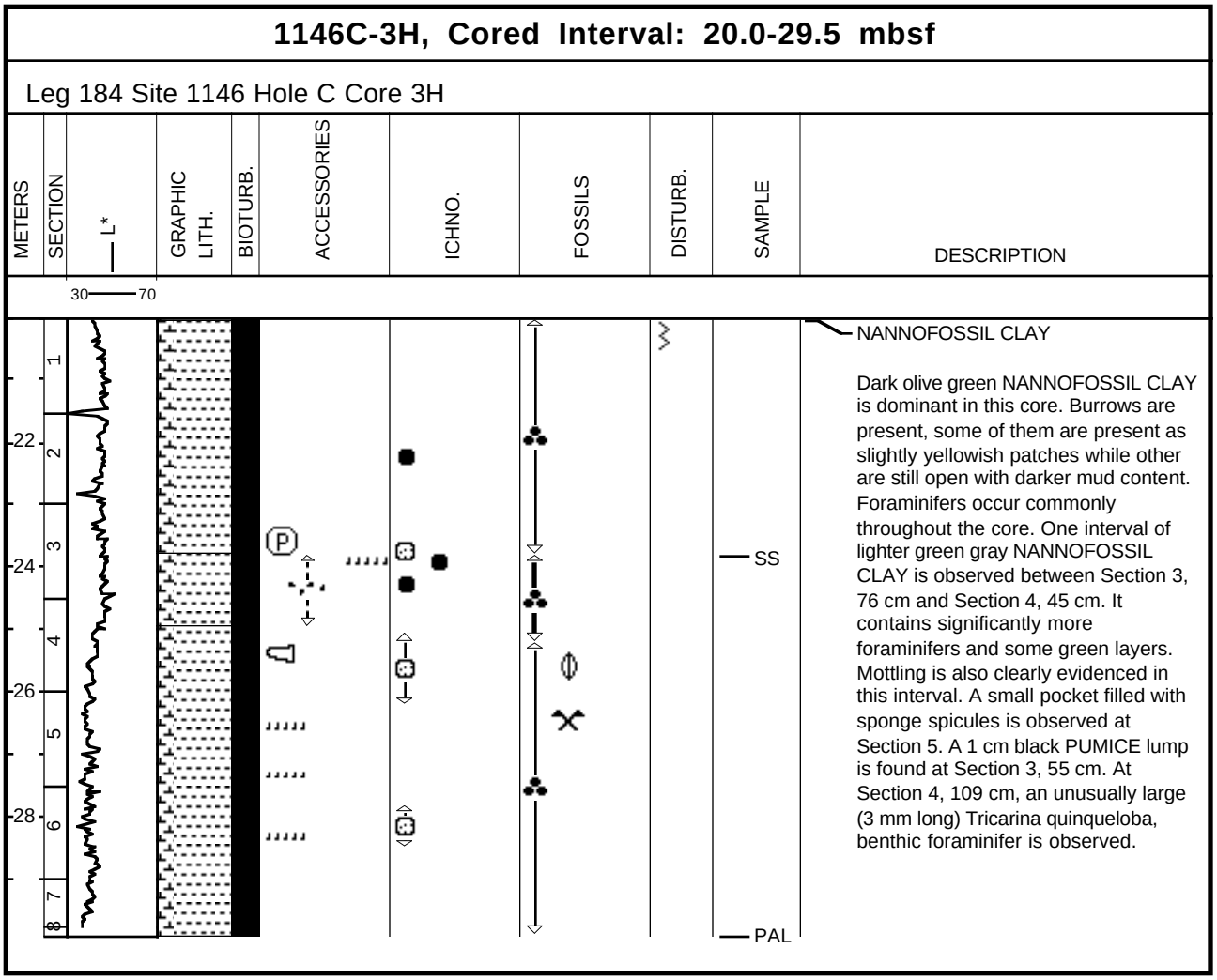
Core Photo


1146C-1H, Cored Interval: 1.0-10.5 mbsf
Leg 184 Site 1146 Hole C Core 1H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
2
4
6
8
10
1
2
3
4
5
6
7
NANNOFOSSIL CLAY
The core is composed of structureless NANNOFOSSIL CLAY. No mudline was recovered in this core. The top of the core (Section 1, 0-113 cm) is a grayish sediment, passing gradually down into an olive green sediment in the lower part of the core. The grayish sediment is particularly rich in large foraminifers (Globorotalia). Open worm holes are observed throughout.
A small pocket of foraminifers (~5 mm across), presumably burrow-fill is noted, for example at Section 7, 18 cm.
PAL

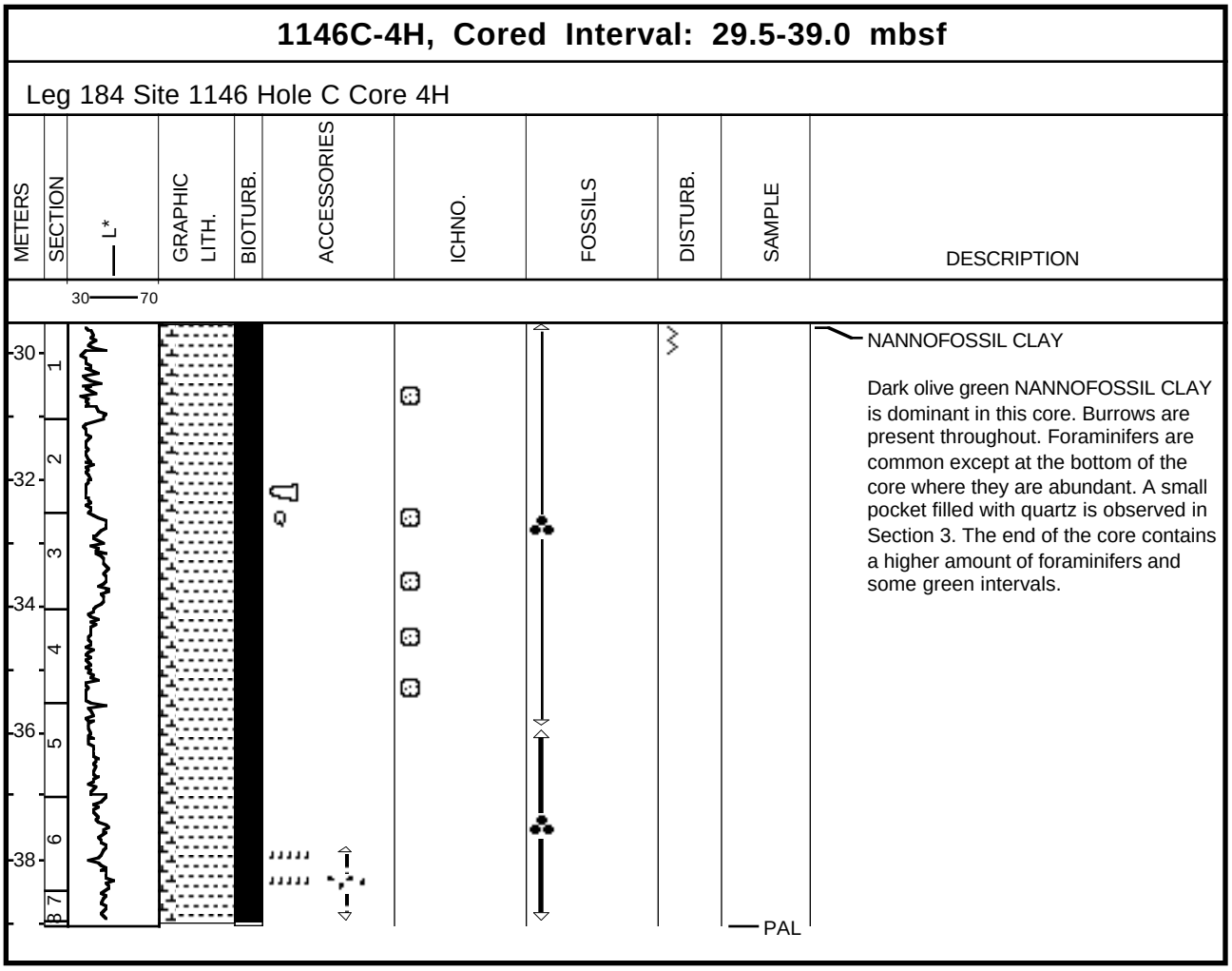
Core Photo


1146C-2H, Cored Interval: 10.5-20.0 mbsf
Leg 184 Site 1146 Hole C Core 2H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
12
14
16
18
20
1
2
3
4
5
6
7
FES
FES
FES
FES
SS
SS
PAL
NANNOFOSSIL CLAY
Dark olive green NANNOFOSSIL CLAY is dominant in this core. Mottles of "iron sulfides" (< 1 mm) are rare. Burrows are present, most of them are present as slightly yellowish patches. Foraminifers occur commonly throughout the core.

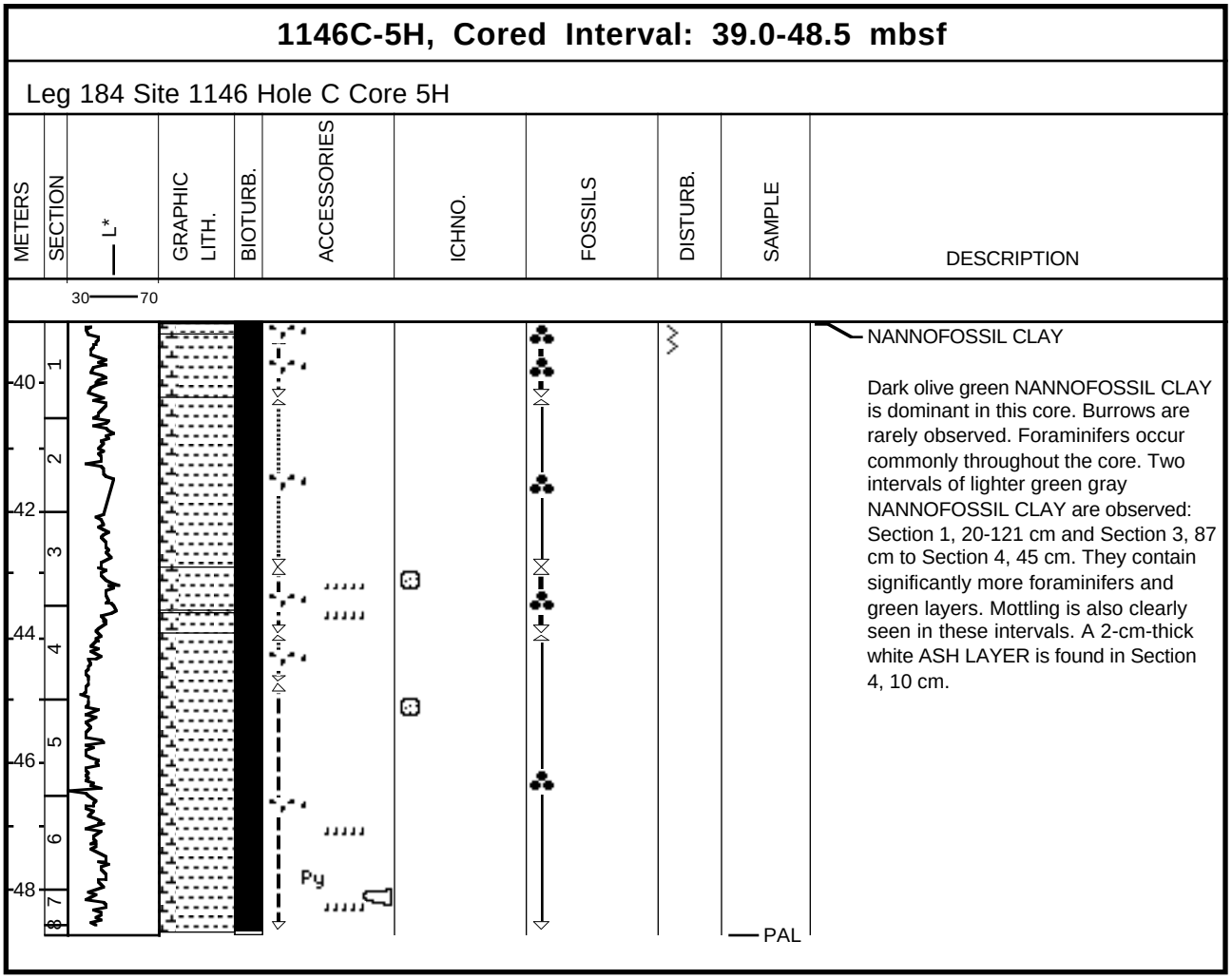
Core Photo


1146C-3H, Cored Interval: 20.0-29.5 mbsf
Leg 184 Site 1146 Hole C Core 3H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
22
24
26
28
1
2
3
4
5
6
7
SS
PAL
NANNOFOSSIL CLAY
Dark olive green NANNOFOSSIL CLAY is dominant in this core. Burrows are present, some of them are present as slightly yellowish patches while other are still open with darker mud content. Foraminifers occur commonly throughout the core. One interval of lighter green gray NANNOFOSSIL CLAY is observed between Section 3, 76 cm and Section 4, 45 cm. It contains significantly more foraminifers and some green layers. Mottling is also clearly evidenced in this interval. A small pocket filled with sponge spicules is observed at Section 5. A 1 cm black PUMICE lump is found at Section 3, 55 cm. At Section 4, 109 cm, an unusually large (3 mm long) Tricarina quinqueloba, benthic foraminifer is observed.

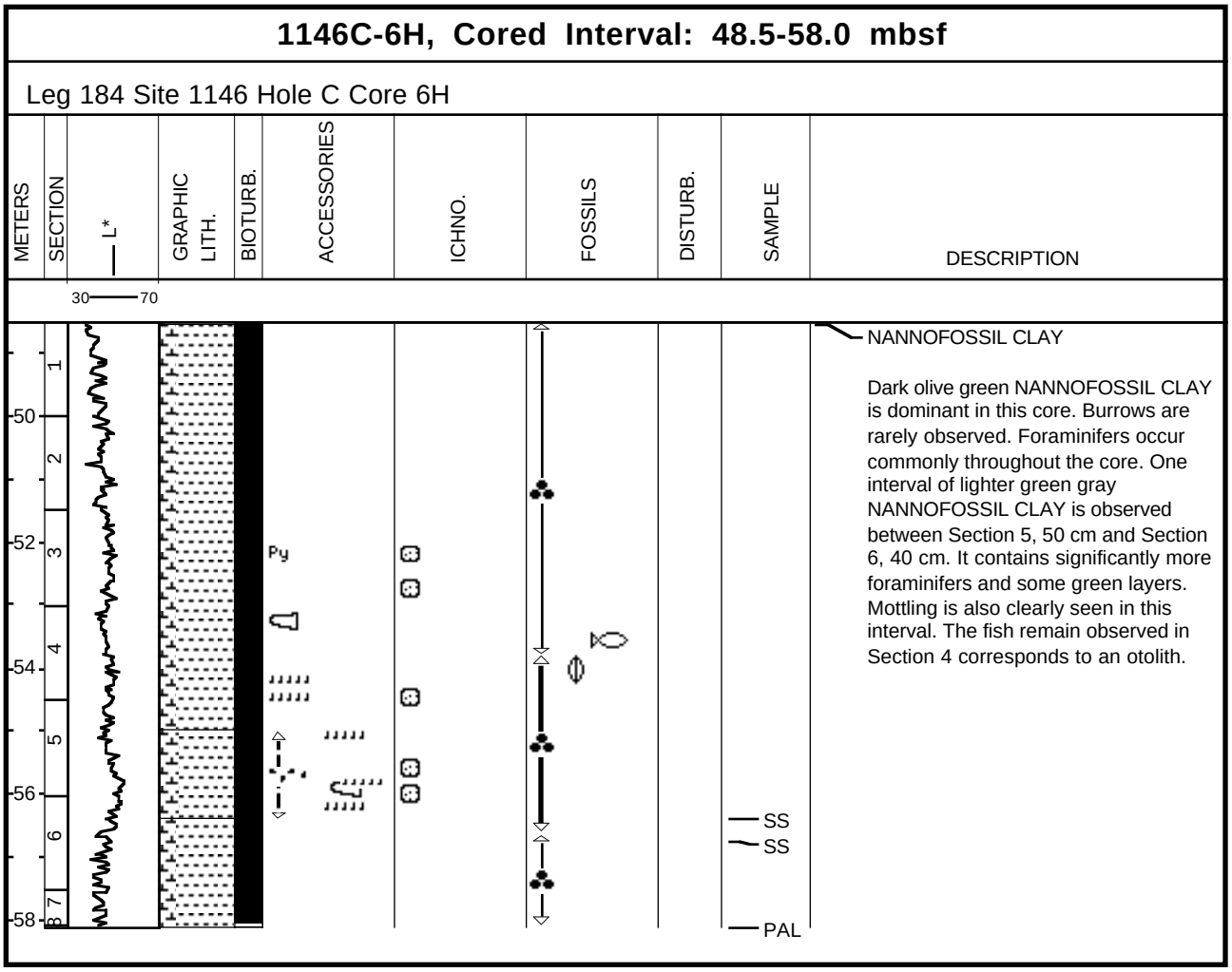
Core Photo


1146C-4H, Cored Interval: 29.5-39.0 mbsf
Leg 184 Site 1146 Hole C Core 4H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
30
32
34
36
38
1
2
3
4
5
6
7
CC
PAL
NANNOFOSSIL CLAY
Dark olive green NANNOFOSSIL CLAY is dominant in this core. Burrows are present throughout. Foraminifers are common except at the bottom of the core where they are abundant. A small pocket filled with quartz is observed in Section 3. The end of the core contains a higher amount of foraminifers and some green intervals.

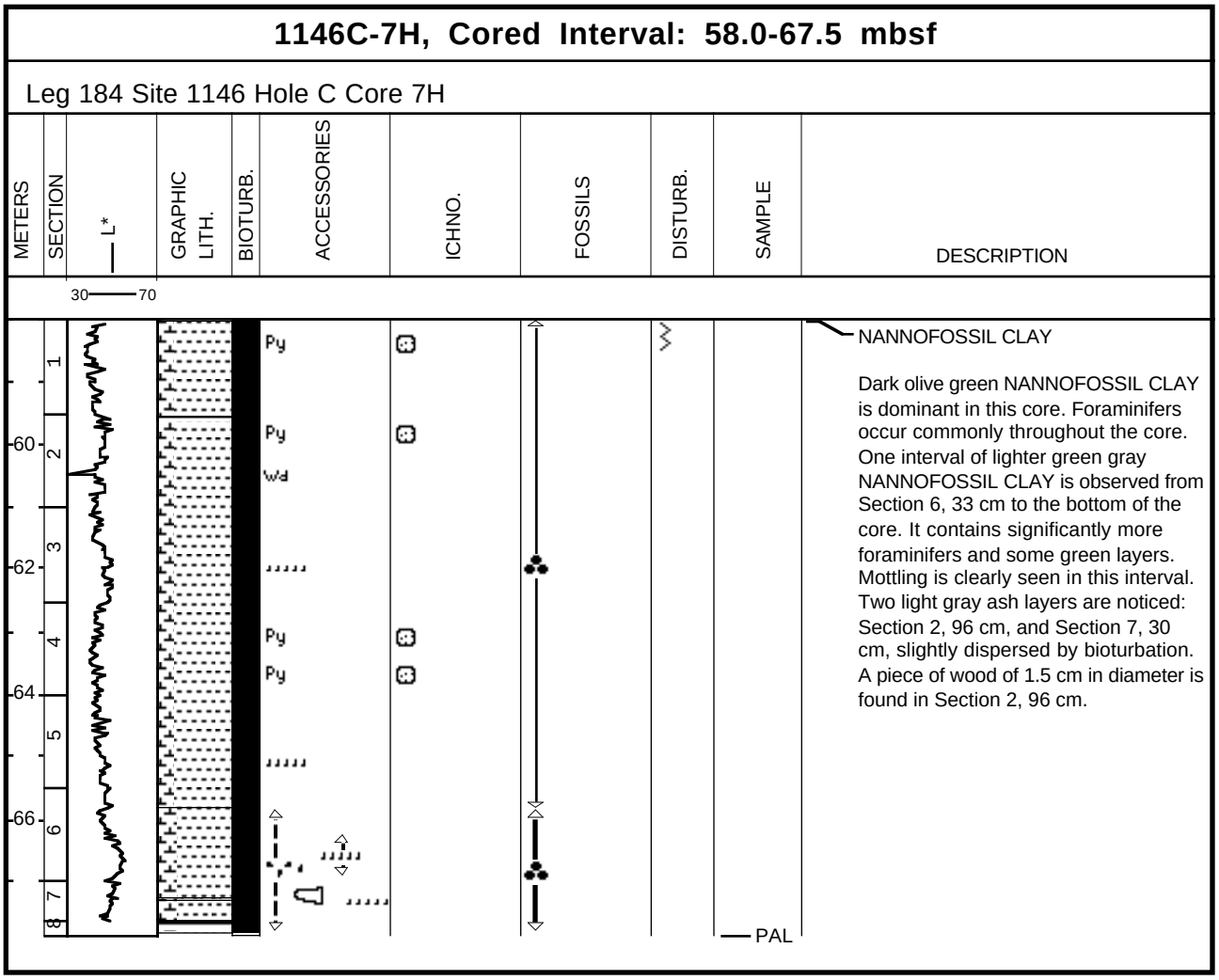
Core Photo


1146C-5H, Cored Interval: 39.0-48.5 mbsf
Leg 184 Site 1146 Hole C Core 5H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
40
42
44
46
48
1
2
3
4
5
6
7
Py
PAL
NANNOFOSSIL CLAY
Dark olive green NANNOFOSSIL CLAY is dominant in this core. Burrows are rarely observed. Foraminifers occur commonly throughout the core. Two intervals of lighter green gray NANNOFOSSIL CLAY are observed: Section 1, 20-121 cm and Section 3, 87 cm to Section 4, 45 cm. They contain significantly more foraminifers and green layers. Mottling is also clearly seen in these intervals. A 2-cm-thick white ASH LAYER is found in Section 4, 10 cm.

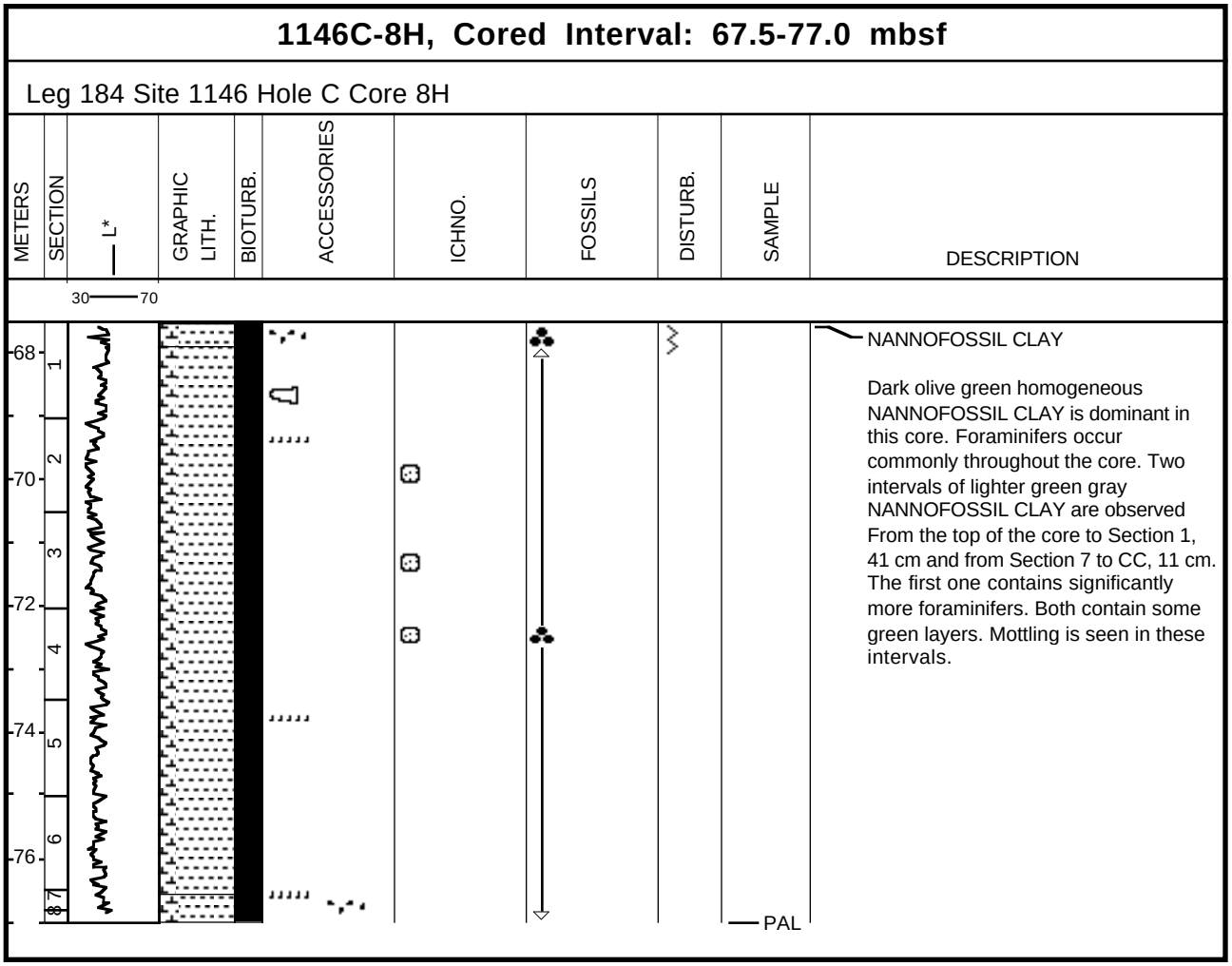
Core Photo


1146C-6H, Cored Interval: 48.5-58.0 mbsf
Leg 184 Site 1146 Hole C Core 6H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
50
52
54
56
58
1
2
3
4
5
6
7
CC
Py
SS
SS
PAL
NANNOFOSSIL CLAY
Dark olive green NANNOFOSSIL CLAY is dominant in this core. Burrows are rarely observed. Foraminifers occur commonly throughout the core. One interval of lighter green gray NANNOFOSSIL CLAY is observed between Section 5, 50 cm and Section 6, 40 cm. It contains significantly more foraminifers and some green layers. Mottling is also clearly seen in this interval. The fish remain observed in Section 4 corresponds to an otolith.

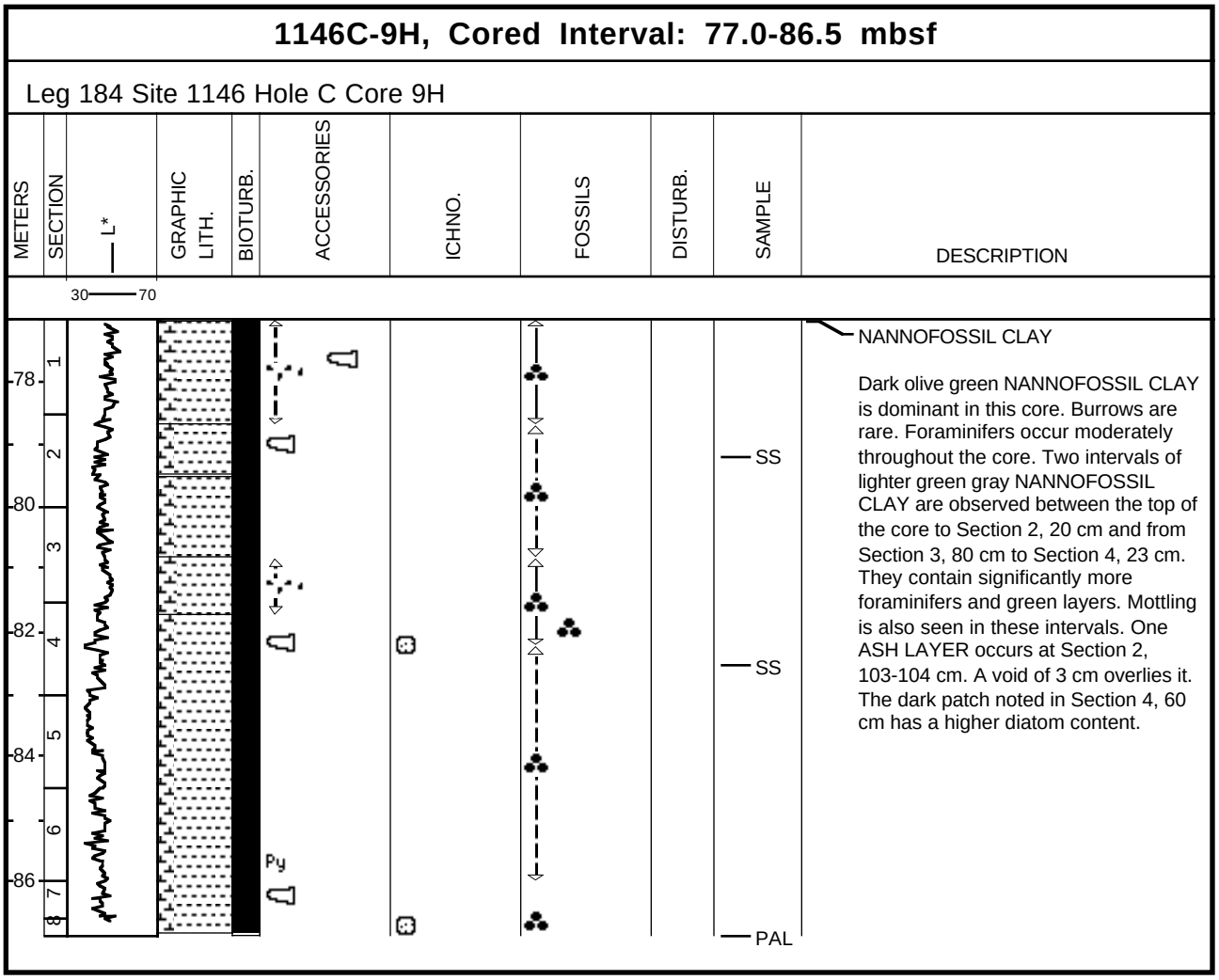
Core Photo


1146C-7H, Cored Interval: 58.0-67.5 mbsf
Leg 184 Site 1146 Hole C Core 7H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
60
62
64
66
1
2
3
4
5
6
7
Py
Py
Wd
Py
Py
PAL
NANNOFOSSIL CLAY
Dark olive green NANNOFOSSIL CLAY is dominant in this core. Foraminifers occur commonly throughout the core. One interval of lighter green gray NANNOFOSSIL CLAY is observed from Section 6, 33 cm to the bottom of the core. It contains significantly more foraminifers and some green layers. Mottling is clearly seen in this interval. Two light gray ash layers are noticed: Section 2, 96 cm, and Section 7, 30 cm, slightly dispersed by bioturbation. A piece of wood of 1.5 cm in diameter is found in Section 2, 96 cm.

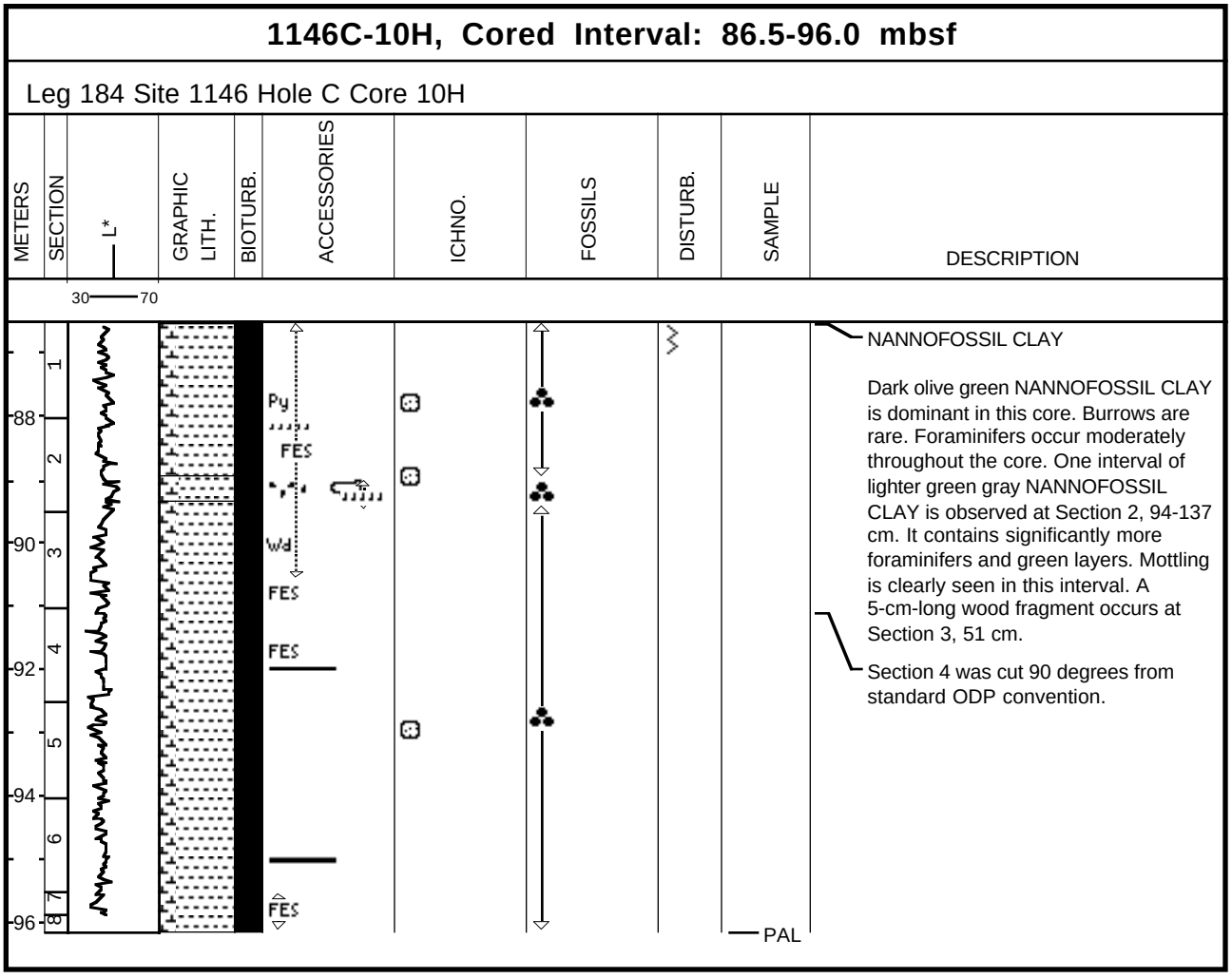
Core Photo


1146C-8H, Cored Interval: 67.5-77.0 mbsf
Leg 184 Site 1146 Hole C Core 8H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
68
70
72
74
76
1
2
3
4
5
6
7
PAL
NANNOFOSSIL CLAY
Dark olive green homogeneous NANNOFOSSIL CLAY is dominant in this core. Foraminifers occur commonly throughout the core. Two intervals of lighter green gray NANNOFOSSIL CLAY are observed From the top of the core to Section 1, 41 cm and from Section 7 to CC, 11 cm. The first one contains significantly more foraminifers. Both contain some green layers. Mottling is seen in these intervals.

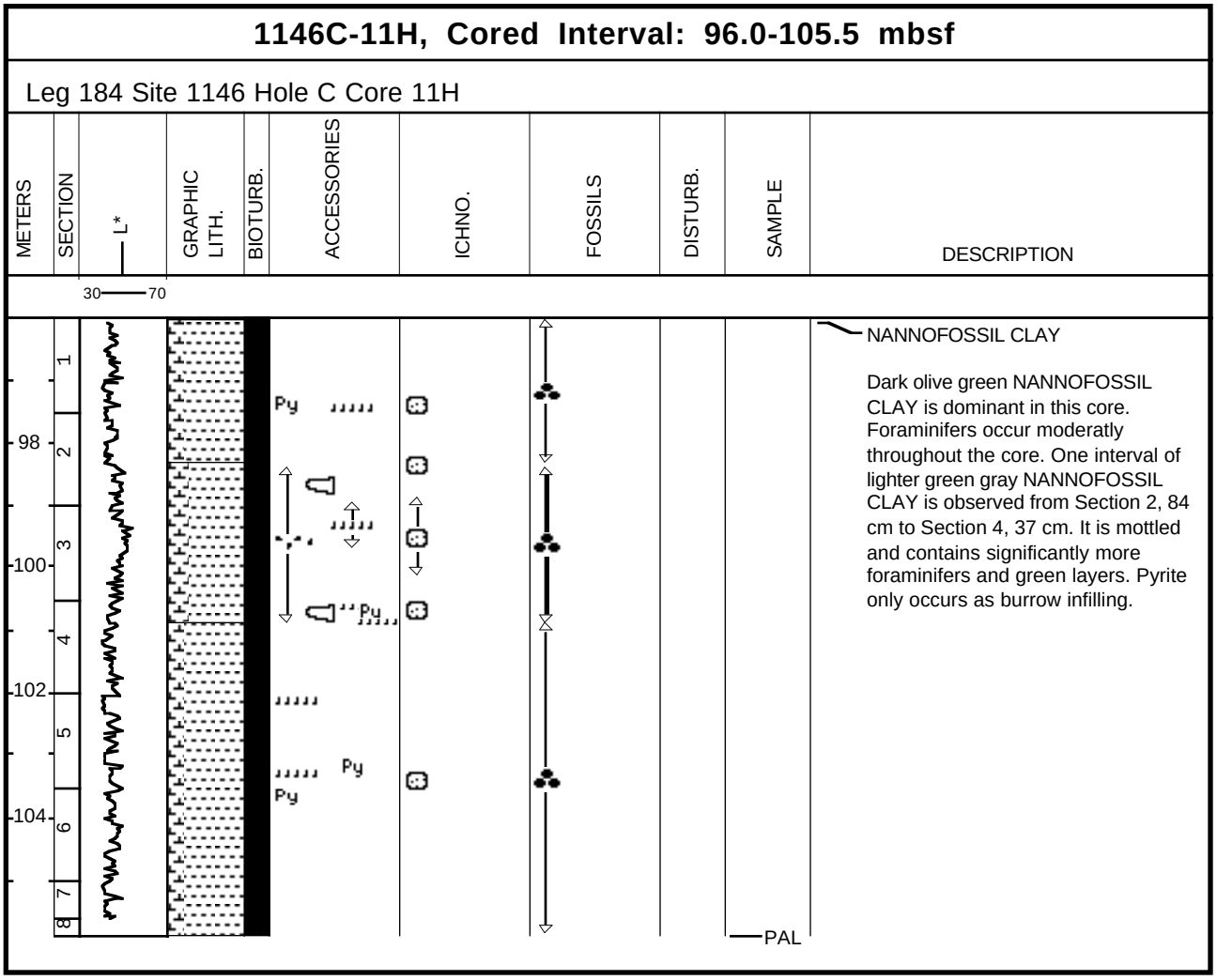
Core Photo


1146C-9H, Cored Interval: 77.0-86.5 mbsf
Leg 184 Site 1146 Hole C Core 9H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
78
80
82
84
86
1
2
3
4
5
6
7
Py
SS
SS
PAL
NANNOFOSSIL CLAY
Dark olive green NANNOFOSSIL CLAY is dominant in this core. Burrows are rare. Foraminifers occur moderately throughout the core. Two intervals of lighter green gray NANNOFOSSIL CLAY are observed between the top of the core to Section 2, 20 cm and from Section 3, 80 cm to Section 4, 23 cm. They contain significantly more foraminifers and green layers. Mottling is also seen in these intervals. One ASH LAYER occurs at Section 2, 103-104 cm. A void of 3 cm overlies it. The dark patch noted in Section 4, 60 cm has a higher diatom content.

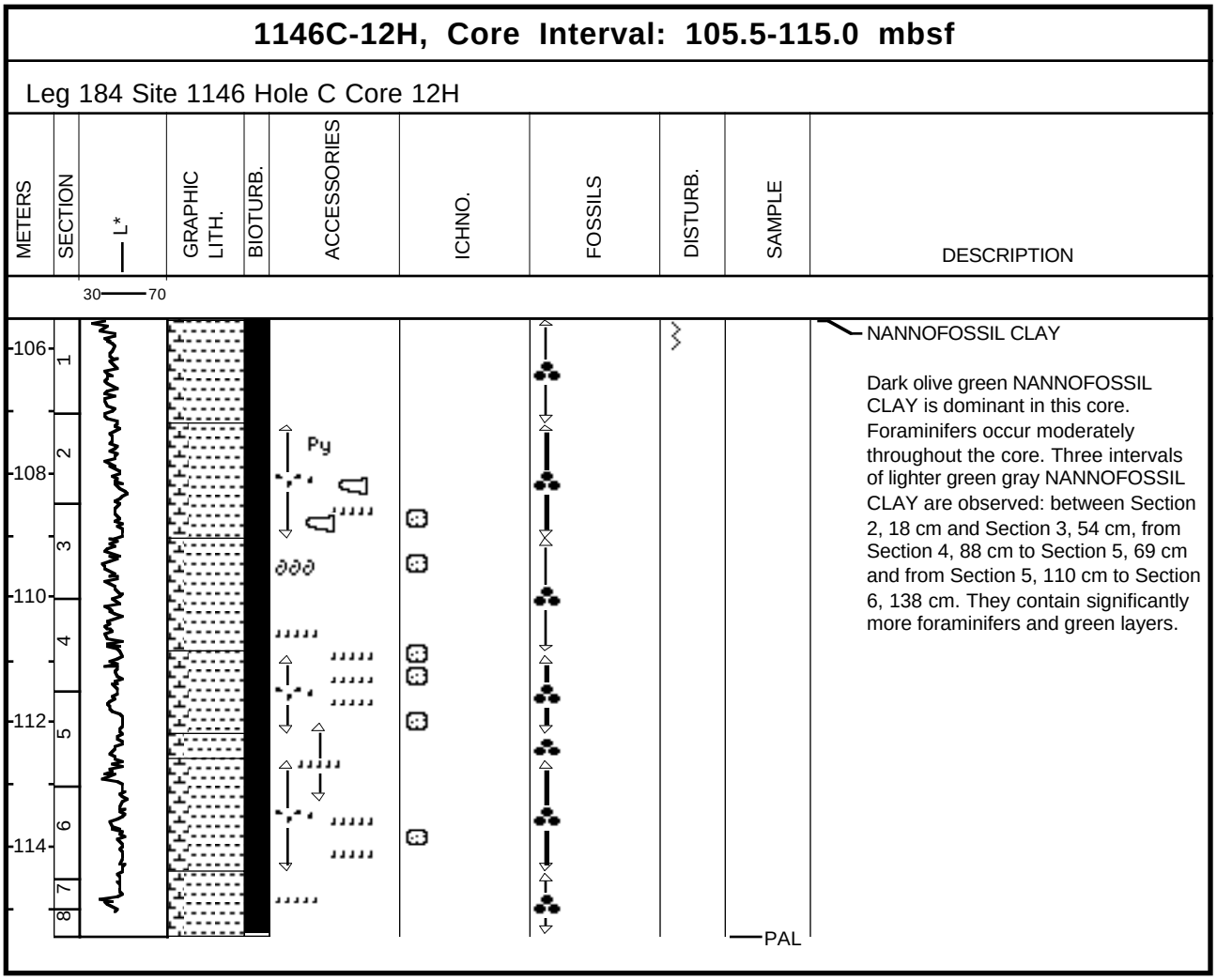
Core Photo


1146C-10H, Cored Interval: 86.5-96.0 mbsf
Leg 184 Site 1146 Hole C Core 10H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
88
90
92
94
96
1
2
3
4
5
6
7
Py
FES
Wd
FES
FES
FES
PAL
NANNOFOSSIL CLAY
Dark olive green NANNOFOSSIL CLAY is dominant in this core. Burrows are rare. Foraminifers occur moderately throughout the core. One interval of lighter green gray NANNOFOSSIL CLAY is observed at Section 2, 94-137 cm. It contains significantly more foraminifers and green layers. Mottling is clearly seen in this interval. A 5-cm-long wood fragment occurs at Section 3, 51 cm.
Section 4 was cut 90 degrees from standard ODP convention.

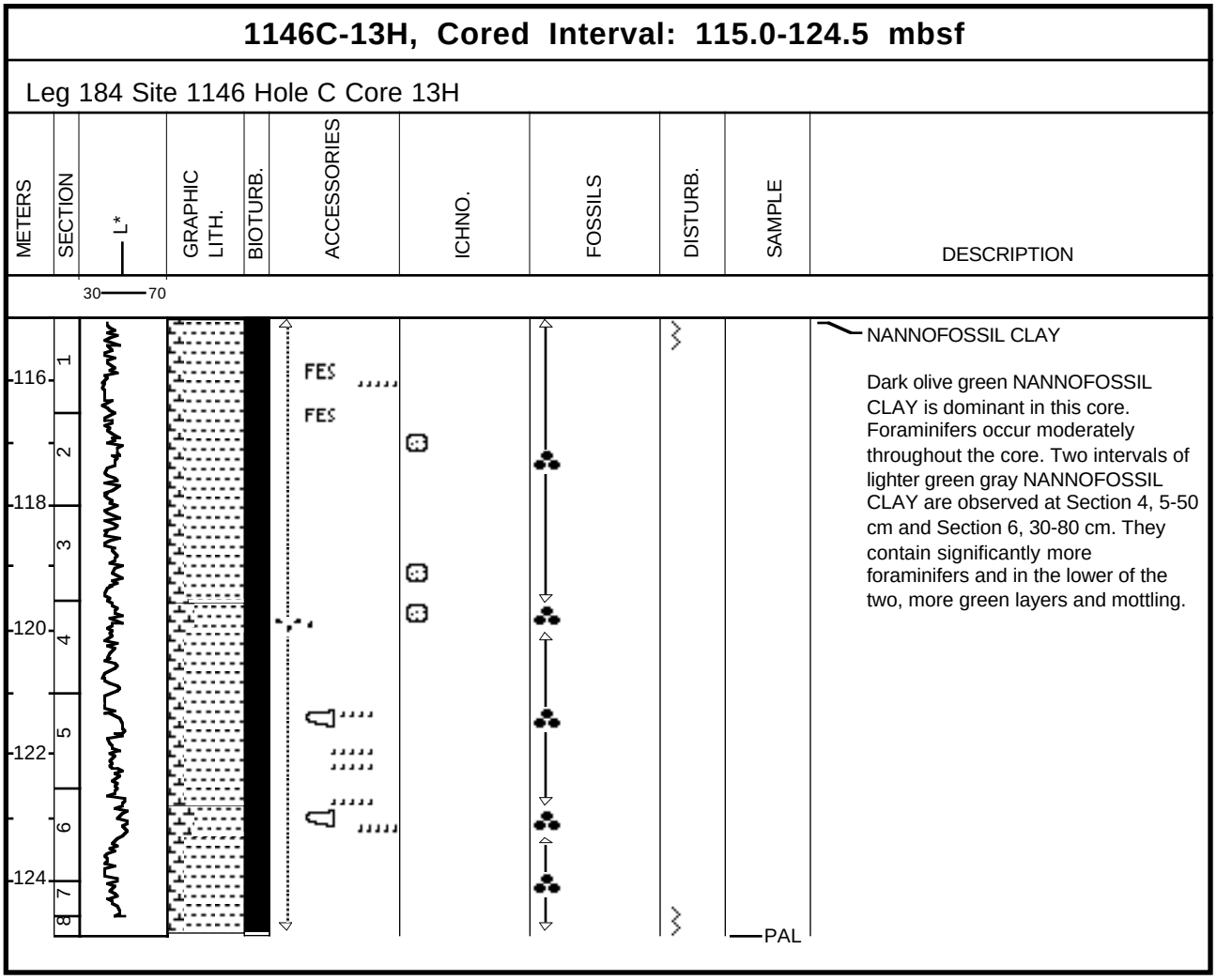
Core Photo


1146C-11H, Cored Interval: 96.0-105.5 mbsf
Leg 184 Site 1146 Hole C Core 11H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
98
100
102
104
1
2
3
4
5
6
7
8
Py
Py
Py
Py
PAL
NANNOFOSSIL CLAY
Dark olive green NANNOFOSSIL CLAY is dominant in this core. Foraminifers occur moderatly throughout the core. One interval of lighter green gray NANNOFOSSIL CLAY is observed from Section 2, 84 cm to Section 4, 37 cm. It is mottled and contains significantly more foraminifers and green layers. Pyrite only occurs as burrow infilling.

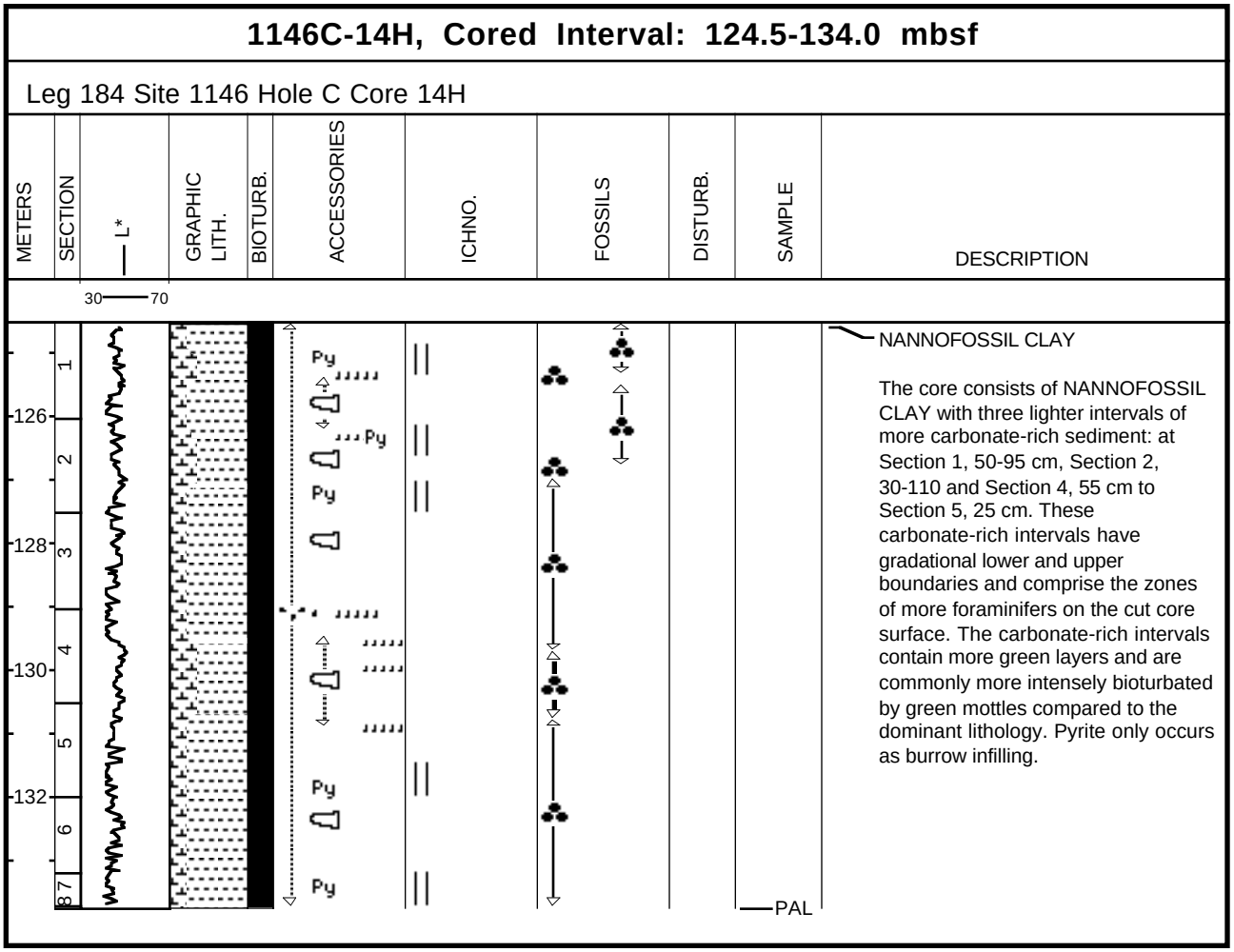
Core Photo


1146C-12H, Core Interval: 105.5-115.0 mbsf
Leg 184 Site 1146 Hole C Core 12H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
106
108
110
112
114
1
2
3
4
5
6
7
8
Py
PAL
NANNOFOSSIL CLAY
Dark olive green NANNOFOSSIL CLAY is dominant in this core. Foraminifers occur moderately throughout the core. Three intervals of lighter green gray NANNOFOSSIL CLAY are observed: between Section 2, 18 cm and Section 3, 54 cm, from Section 4, 88 cm to Section 5, 69 cm and from Section 5, 110 cm to Section 6, 138 cm. They contain significantly more foraminifers and green layers.

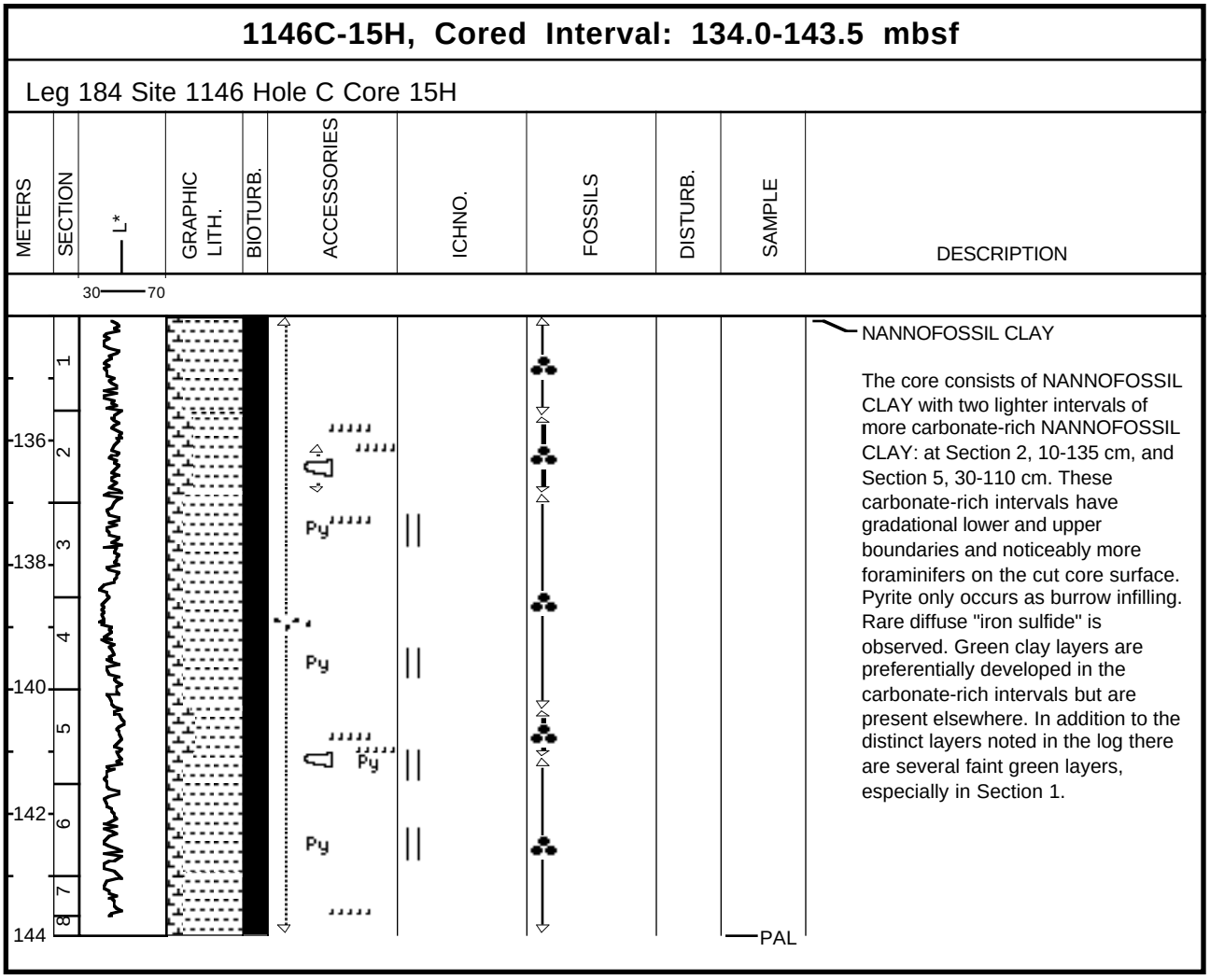
Core Photo


1146C-13H, Cored Interval: 115.0-124.5 mbsf
Leg 184 Site 1146 Hole C Core 13H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
116
118
120
122
124
1
2
3
4
5
6
7
8
FES
FES
PAL
NANNOFOSSIL CLAY
Dark olive green NANNOFOSSIL CLAY is dominant in this core. Foraminifers occur moderately throughout the core. Two intervals of lighter green gray NANNOFOSSIL CLAY are observed at Section 4, 5-50 cm and Section 6, 30-80 cm. They contain significantly more foraminifers and in the lower of the two, more green layers and mottling.

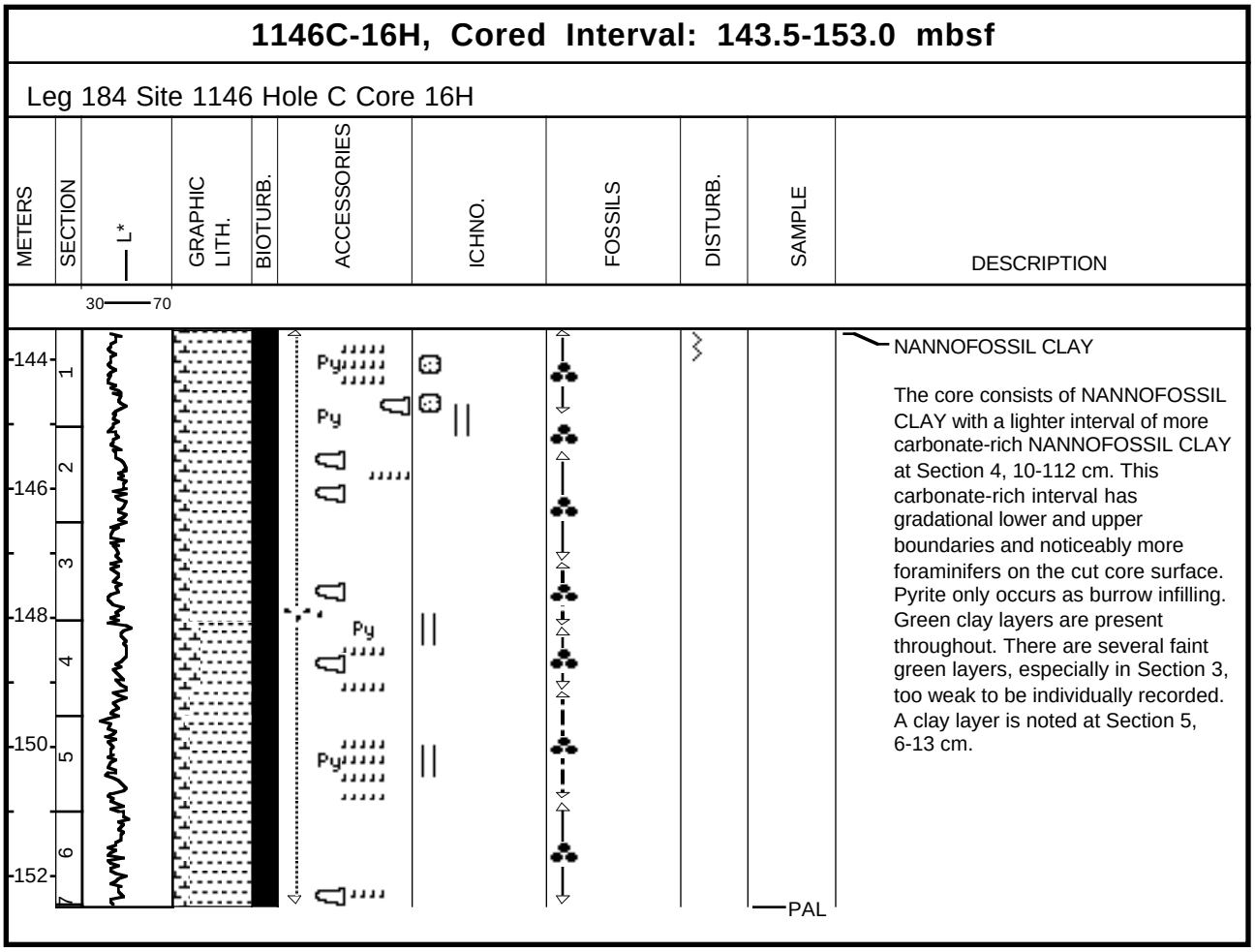
Core Photo


1146C-14H, Cored Interval: 124.5-134.0 mbsf
Leg 184 Site 1146 Hole C Core 14H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
126
128
130
132
1
2
3
4
5
6
7
Py
PAL
NANNOFOSSIL CLAY
The core consists of NANNOFOSSIL CLAY with three lighter intervals of more carbonate-rich sediment: at Section 1, 50-95 cm, Section 2, 30-110 and Section 4, 55 cm to Section 5, 25 cm. These carbonate-rich intervals have gradational lower and upper boundaries and comprise the zones of more foraminifers on the cut core surface. The carbonate-rich intervals contain more green layers and are commonly more intensely bioturbated by green mottles compared to the dominant lithology. Pyrite only occurs as burrow infilling.

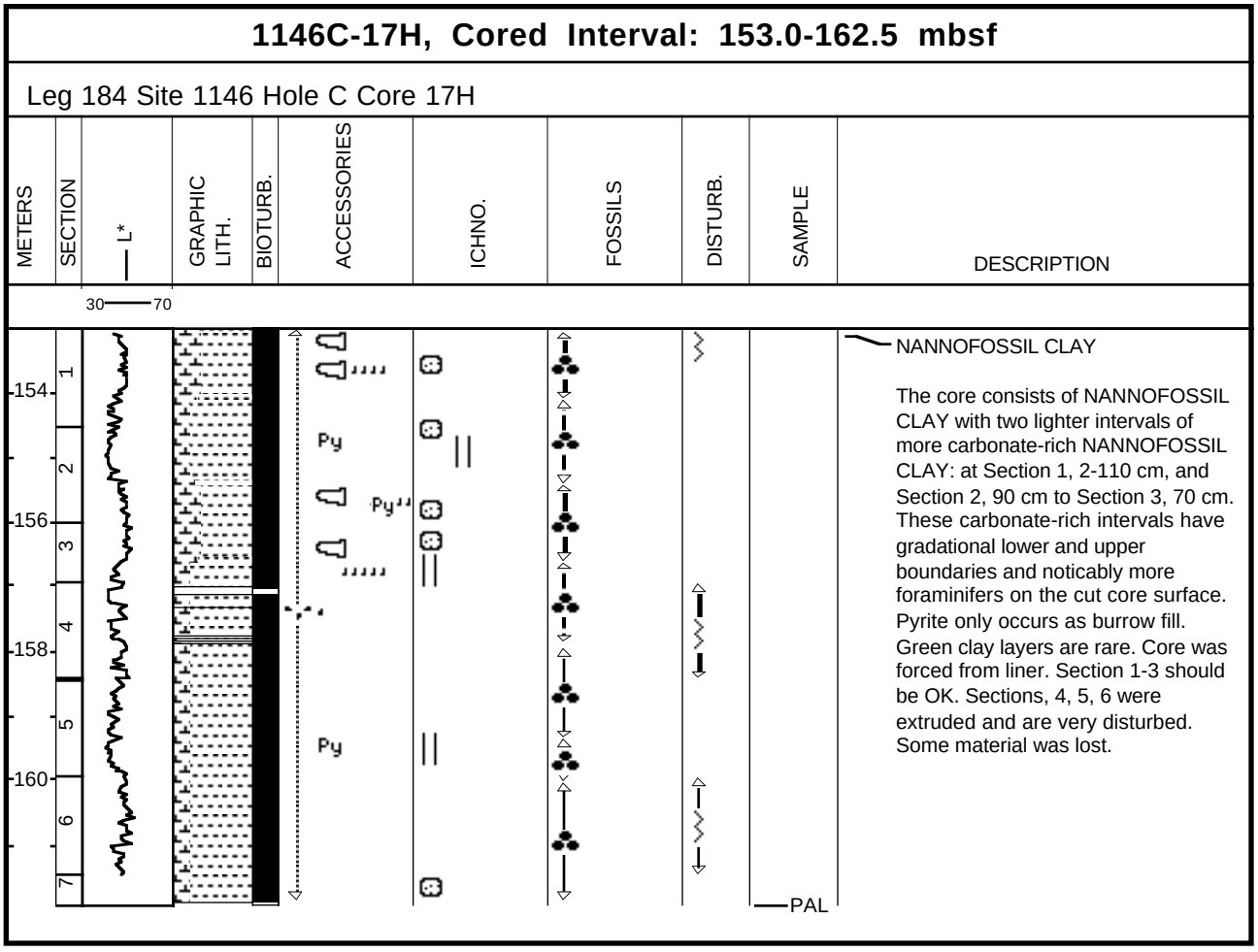
Core Photo


1146C-15H, Cored Interval: 134.0-143.5 mbsf
Leg 184 Site 1146 Hole C Core 15H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
136
138
140
142
144
1
2
3
4
5
6
7
Py
PAL
NANNOFOSSIL CLAY
The core consists of NANNOFOSSIL CLAY with two lighter intervals of more carbonate-rich NANNOFOSSIL CLAY: at Section 2, 10-135 cm, and Section 5, 30-110 cm. These carbonate-rich intervals have gradational lower and upper boundaries and noticeably more foraminifers on the cut core surface. Pyrite only occurs as burrow infilling. Rare diffuse "iron sulfide" is observed. Green clay layers are preferentially developed in the carbonate-rich intervals but are present elsewhere. In addition to the distinct layers noted in the log there are several faint green layers, especially in Section 1.

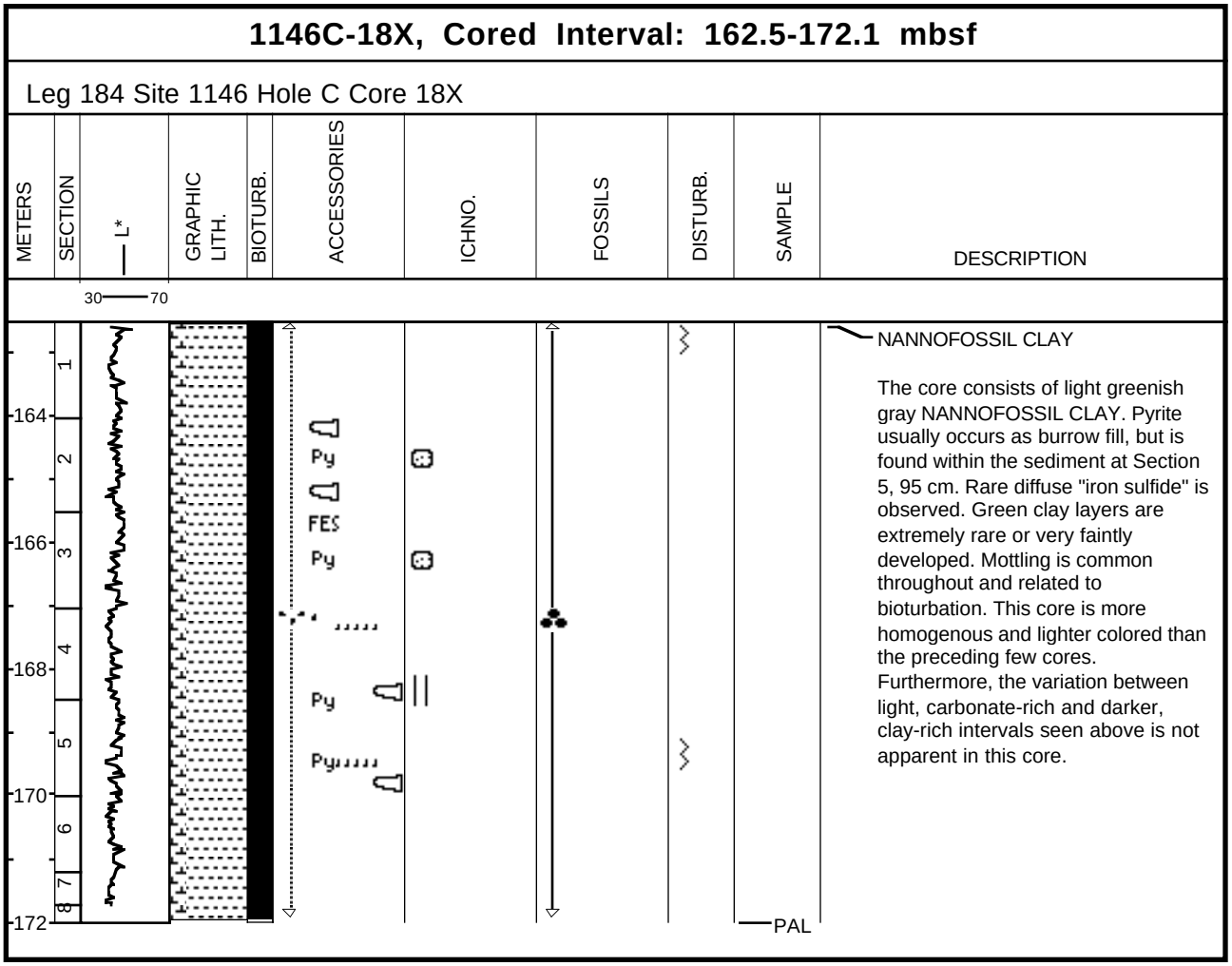
Core Photo


1146C-16H, Cored Interval: 143.5-153.0 mbsf
Leg 184 Site 1146 Hole C Core 16H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
144
146
148
150
152
1
2
3
4
5
6
Py
Py
Py
Py
PAL
NANNOFOSSIL CLAY
The core consists of NANNOFOSSIL CLAY with a lighter interval of more carbonate-rich NANNOFOSSIL CLAY at Section 4, 10-112 cm. This carbonate-rich interval has gradational lower and upper boundaries and noticeably more foraminifers on the cut core surface. Pyrite only occurs as burrow infilling. Green clay layers are present throughout. There are several faint green layers, especially in Section 3, too weak to be individually recorded. A clay layer is noted at Section 5, 6-13 cm.

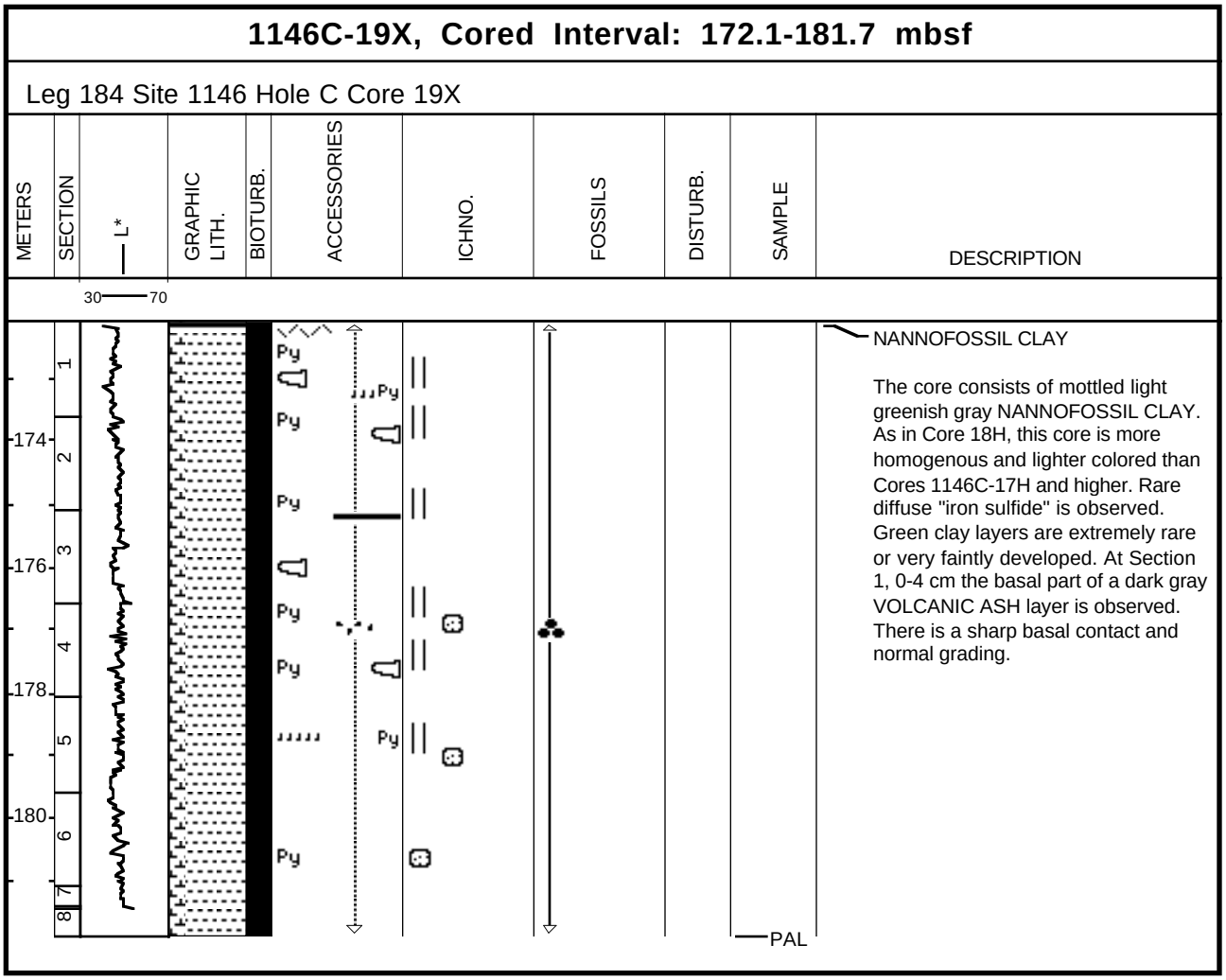
Core Photo


1146C-17H, Cored Interval: 153.0-162.5 mbsf
Leg 184 Site 1146 Hole C Core 17H
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
154
156
158
160
1
2
3
4
5
6
7
Py
Py
Py
PAL
NANNOFOSSIL CLAY
The core consists of NANNOFOSSIL CLAY with two lighter intervals of more carbonate-rich NANNOFOSSIL CLAY: at Section 1, 2-110 cm, and Section 2, 90 cm to Section 3, 70 cm. These carbonate-rich intervals have gradational lower and upper boundaries and noticably more foraminifers on the cut core surface. Pyrite only occurs as burrow fill. Green clay layers are rare. Core was forced from liner. Section 1-3 should be OK. Sections, 4, 5, 6 were extruded and are very disturbed. Some material was lost.

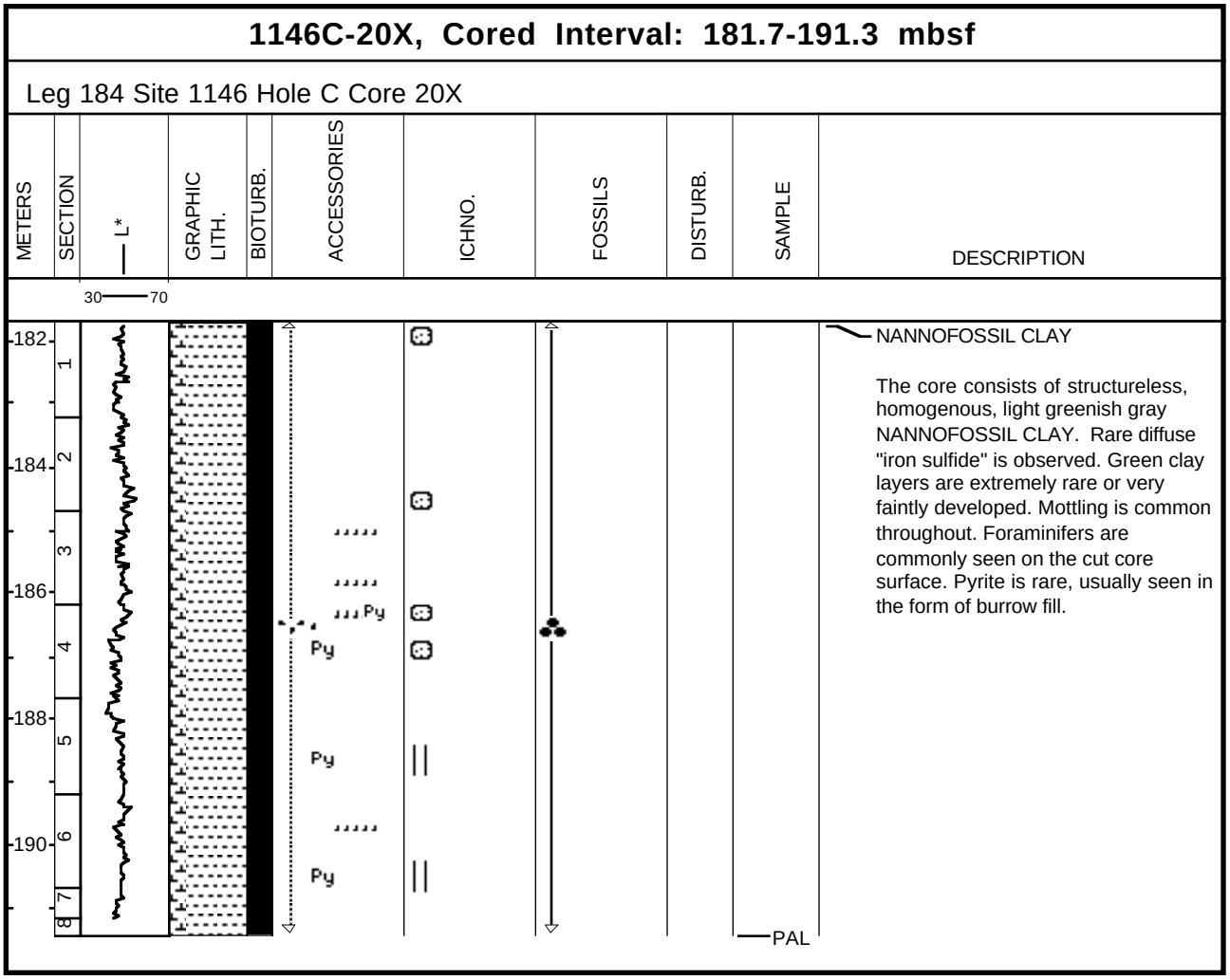
Core Photo


1146C-18X, Cored Interval: 162.5-172.1 mbsf
Leg 184 Site 1146 Hole C Core 18X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
164
166
168
170
172
1
2
3
4
5
6
7
Py
FES
Py
Py
Py
PAL
NANNOFOSSIL CLAY
The core consists of light greenish gray NANNOFOSSIL CLAY. Pyrite usually occurs as burrow fill, but is found within the sediment at Section 5, 95 cm. Rare diffuse "iron sulfide" is observed. Green clay layers are extremely rare or very faintly developed. Mottling is common throughout and related to bioturbation. This core is more homogenous and lighter colored than the preceding few cores. Furthermore, the variation between light, carbonate-rich and darker, clay-rich intervals seen above is not apparent in this core.

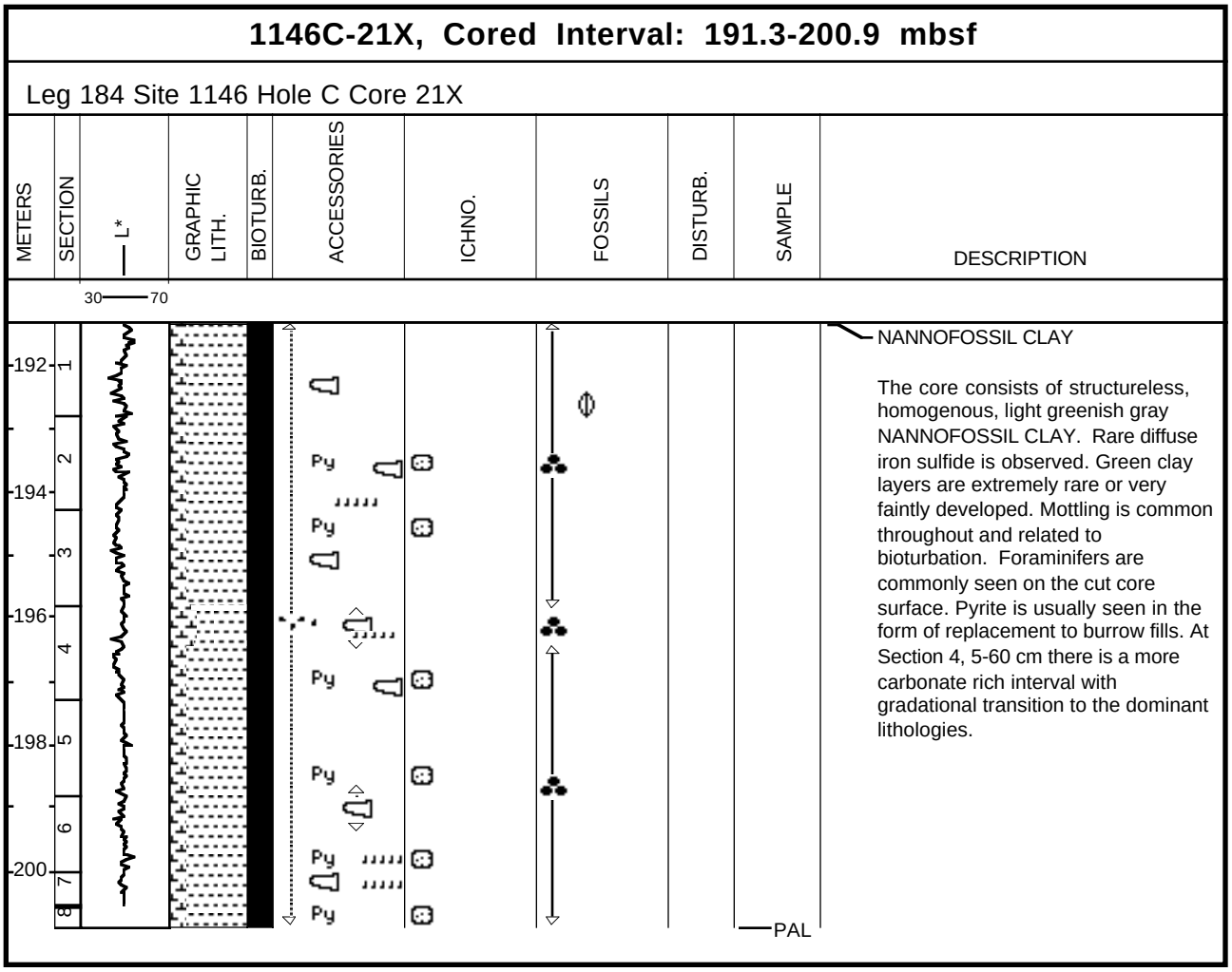
Core Photo


1146C-19X, Cored Interval: 172.1-181.7 mbsf
Leg 184 Site 1146 Hole C Core 19X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
174
176
178
180
1
2
3
4
5
6
7
8
Py
PAL
NANNOFOSSIL CLAY
The core consists of mottled light greenish gray NANNOFOSSIL CLAY. As in Core 18H, this core is more homogenous and lighter colored than Cores 1146C-17H and higher. Rare diffuse "iron sulfide" is observed. Green clay layers are extremely rare or very faintly developed. At Section 1, 0-4 cm the basal part of a dark gray VOLCANIC ASH layer is observed. There is a sharp basal contact and normal grading.

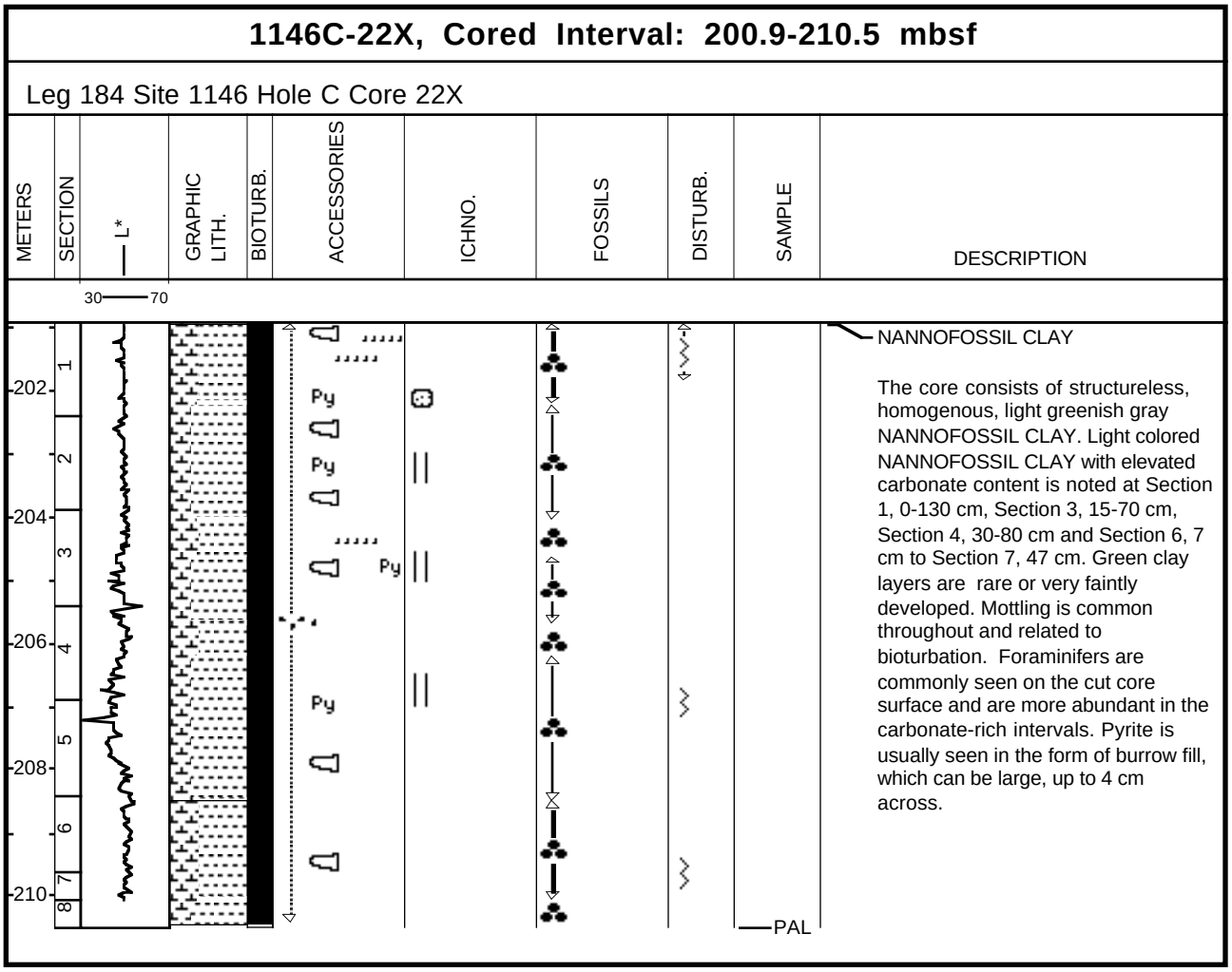
Core Photo


1146C-20X, Cored Interval: 181.7-191.3 mbsf
Leg 184 Site 1146 Hole C Core 20X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
182
184
186
188
190
1
2
3
4
5
6
7
Py
PAL
NANNOFOSSIL CLAY
The core consists of structureless, homogenous, light greenish gray NANNOFOSSIL CLAY. Rare diffuse "iron sulfide" is observed. Green clay layers are extremely rare or very faintly developed. Mottling is common throughout. Foraminifers are commonly seen on the cut core surface. Pyrite is rare, usually seen in the form of burrow fill.

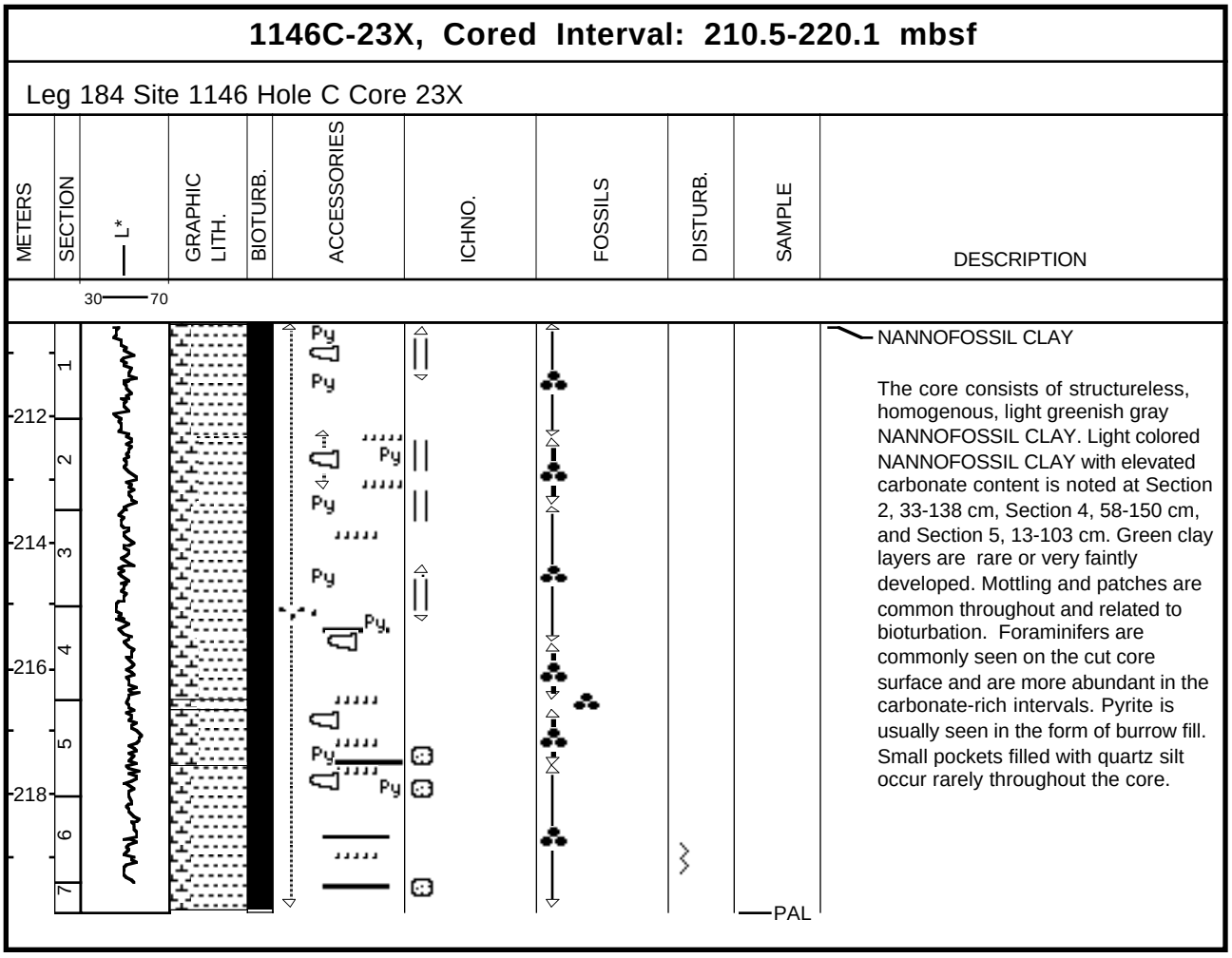
Core Photo


1146C-21X, Cored Interval: 191.3-200.9 mbsf
Leg 184 Site 1146 Hole C Core 21X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
192
194
196
198
200
1
2
3
4
5
6
7
8
Py
PAL
NANNOFOSSIL CLAY
The core consists of structureless, homogenous, light greenish gray NANNOFOSSIL CLAY. Rare diffuse iron sulfide is observed. Green clay layers are extremely rare or very faintly developed. Mottling is common throughout and related to bioturbation. Foraminifers are commonly seen on the cut core surface. Pyrite is usually seen in the form of replacement to burrow fills. At Section 4, 5-60 cm there is a more carbonate rich interval with gradational transition to the dominant lithologies.

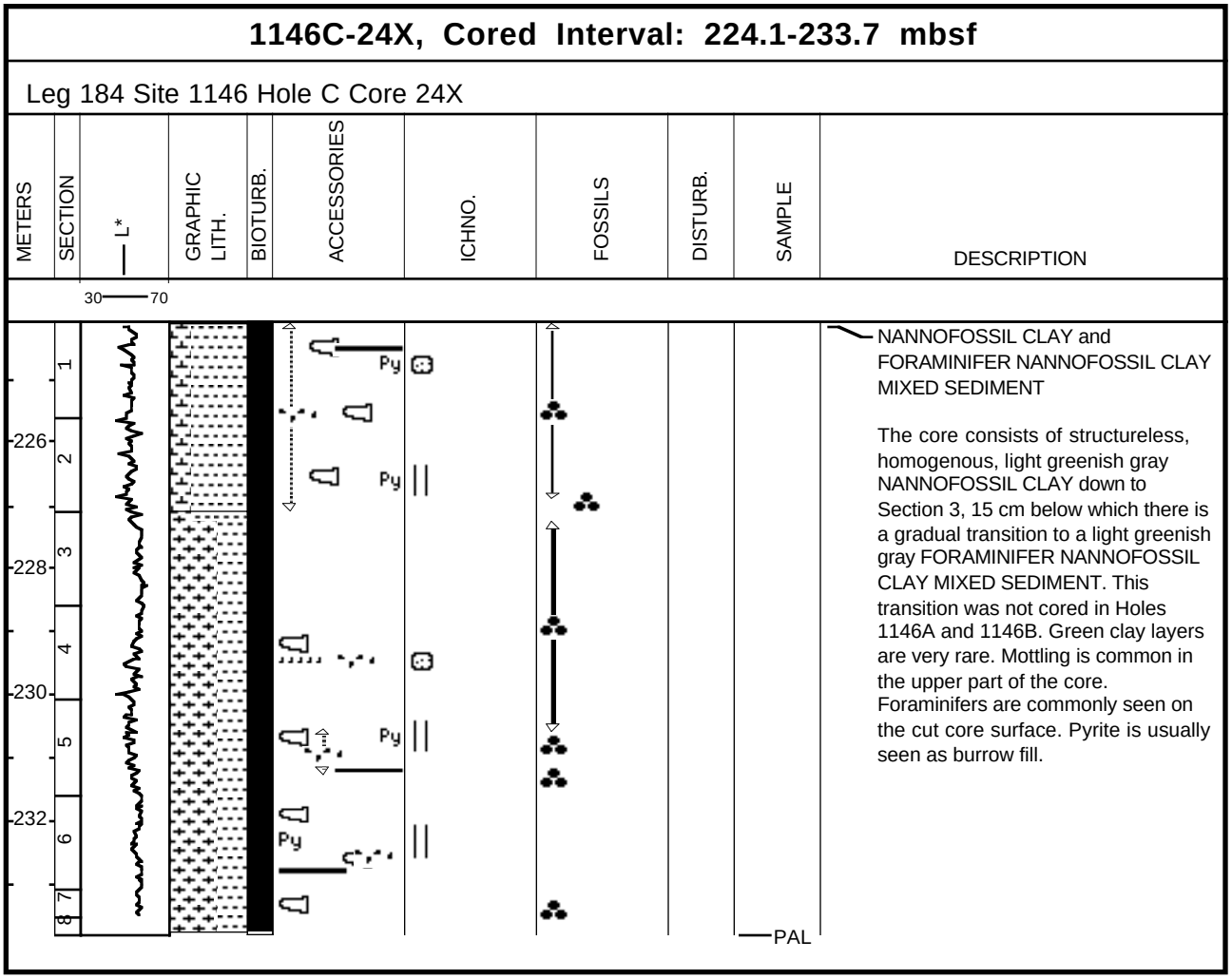
Core Photo


1146C-22X, Cored Interval: 200.9-210.5 mbsf
Leg 184 Site 1146 Hole C Core 22X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
202
204
206
208
210
1
2
3
4
5
6
7
8
Py
PAL
NANNOFOSSIL CLAY
The core consists of structureless, homogenous, light greenish gray NANNOFOSSIL CLAY. Light colored NANNOFOSSIL CLAY with elevated carbonate content is noted at Section 1, 0-130 cm, Section 3, 15-70 cm, Section 4, 30-80 cm and Section 6, 7 cm to Section 7, 47 cm. Green clay layers are rare or very faintly developed. Mottling is common throughout and related to bioturbation. Foraminifers are commonly seen on the cut core surface and are more abundant in the carbonate-rich intervals. Pyrite is usually seen in the form of burrow fill, which can be large, up to 4 cm across.

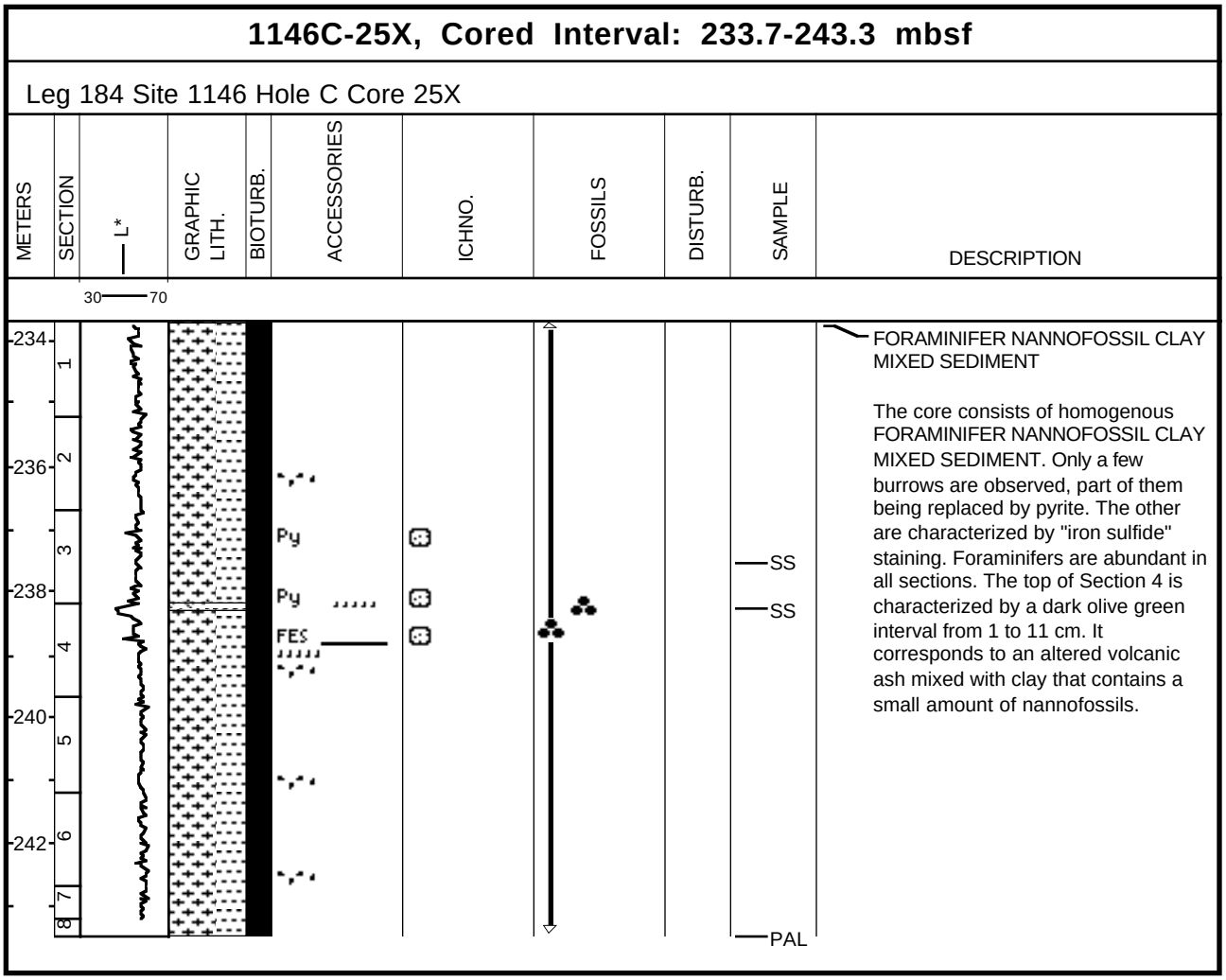
Core Photo


1146C-23X, Cored Interval: 210.5-220.1 mbsf
Leg 184 Site 1146 Hole C Core 23X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
212
214
216
218
1
2
3
4
5
6
7
Py
PAL
NANNOFOSSIL CLAY
The core consists of structureless, homogenous, light greenish gray NANNOFOSSIL CLAY. Light colored NANNOFOSSIL CLAY with elevated carbonate content is noted at Section 2, 33-138 cm, Section 4, 58-150 cm, and Section 5, 13-103 cm. Green clay layers are rare or very faintly developed. Mottling and patches are common throughout and related to bioturbation. Foraminifers are commonly seen on the cut core surface and are more abundant in the carbonate-rich intervals. Pyrite is usually seen in the form of burrow fill. Small pockets filled with quartz silt occur rarely throughout the core.

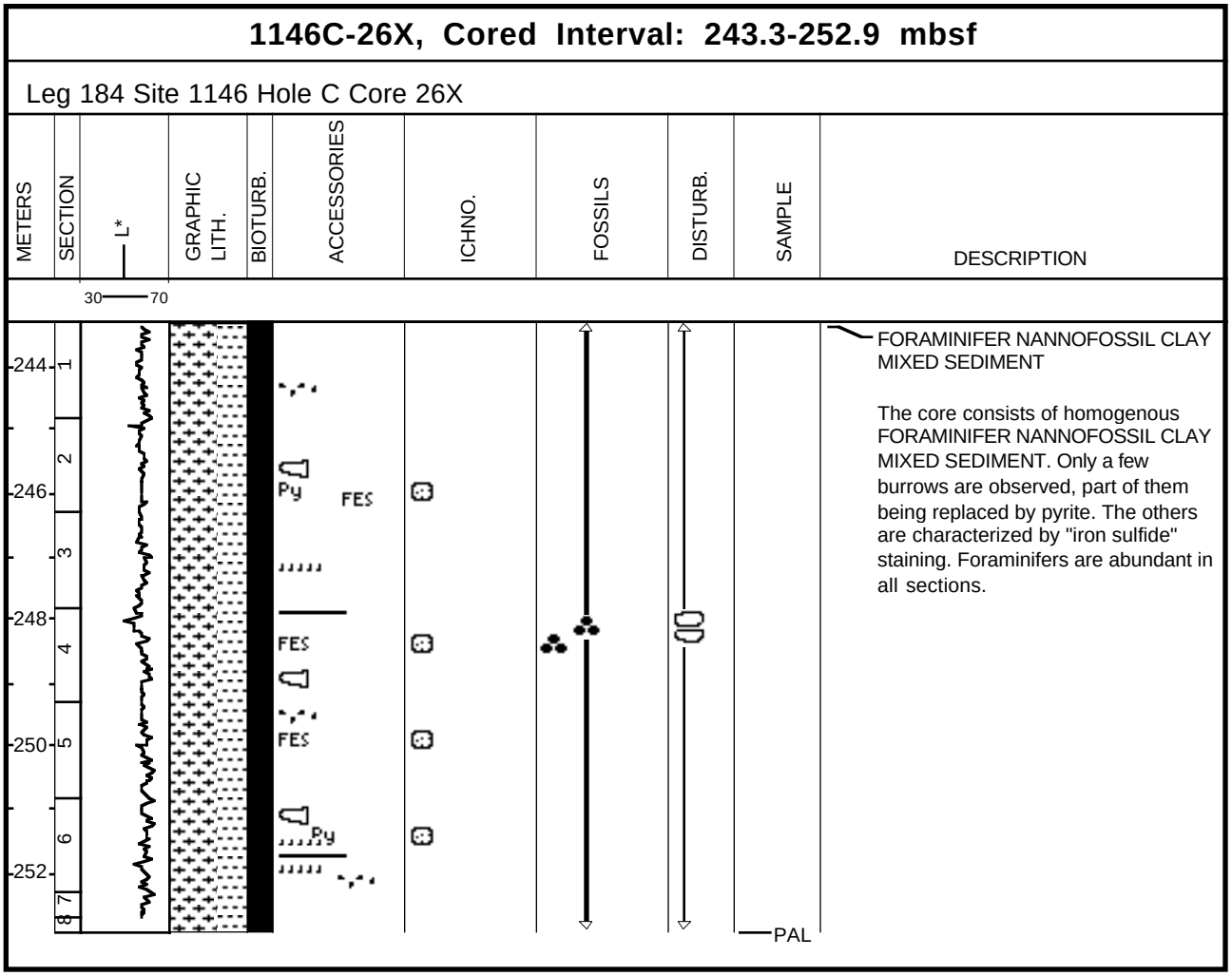
Core Photo


1146C-24X, Cored Interval: 224.1-233.7 mbsf
Leg 184 Site 1146 Hole C Core 24X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
226
228
230
232
1
2
3
4
5
6
7
Py
PAL
NANNOFOSSIL CLAY and FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core consists of structureless, homogenous, light greenish gray NANNOFOSSIL CLAY down to Section 3, 15 cm below which there is a gradual transition to a light greenish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. This transition was not cored in Holes 1146A and 1146B. Green clay layers are very rare. Mottling is common in the upper part of the core. Foraminifers are commonly seen on the cut core surface. Pyrite is usually seen as burrow fill.

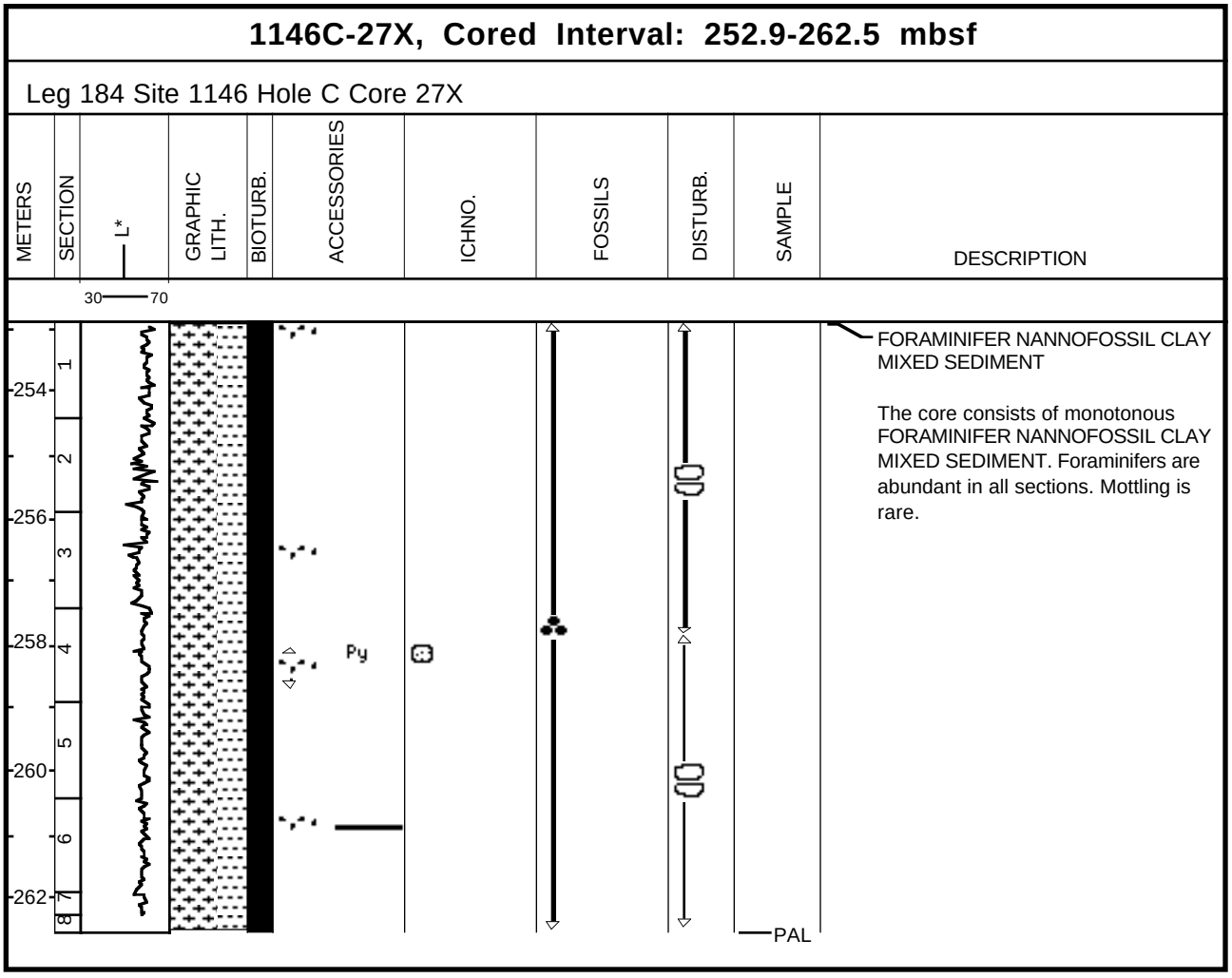
Core Photo


1146C-25X, Cored Interval: 233.7-243.3 mbsf
Leg 184 Site 1146 Hole C Core 25X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
234
236
238
240
242
1
2
3
4
5
6
7
Py
Py
FES
SS
SS
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core consists of homogenous FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. Only a few burrows are observed, part of them being replaced by pyrite. The other are characterized by "iron sulfide" staining. Foraminifers are abundant in all sections. The top of Section 4 is characterized by a dark olive green interval from 1 to 11 cm. It corresponds to an altered volcanic ash mixed with clay that contains a small amount of nannofossils.

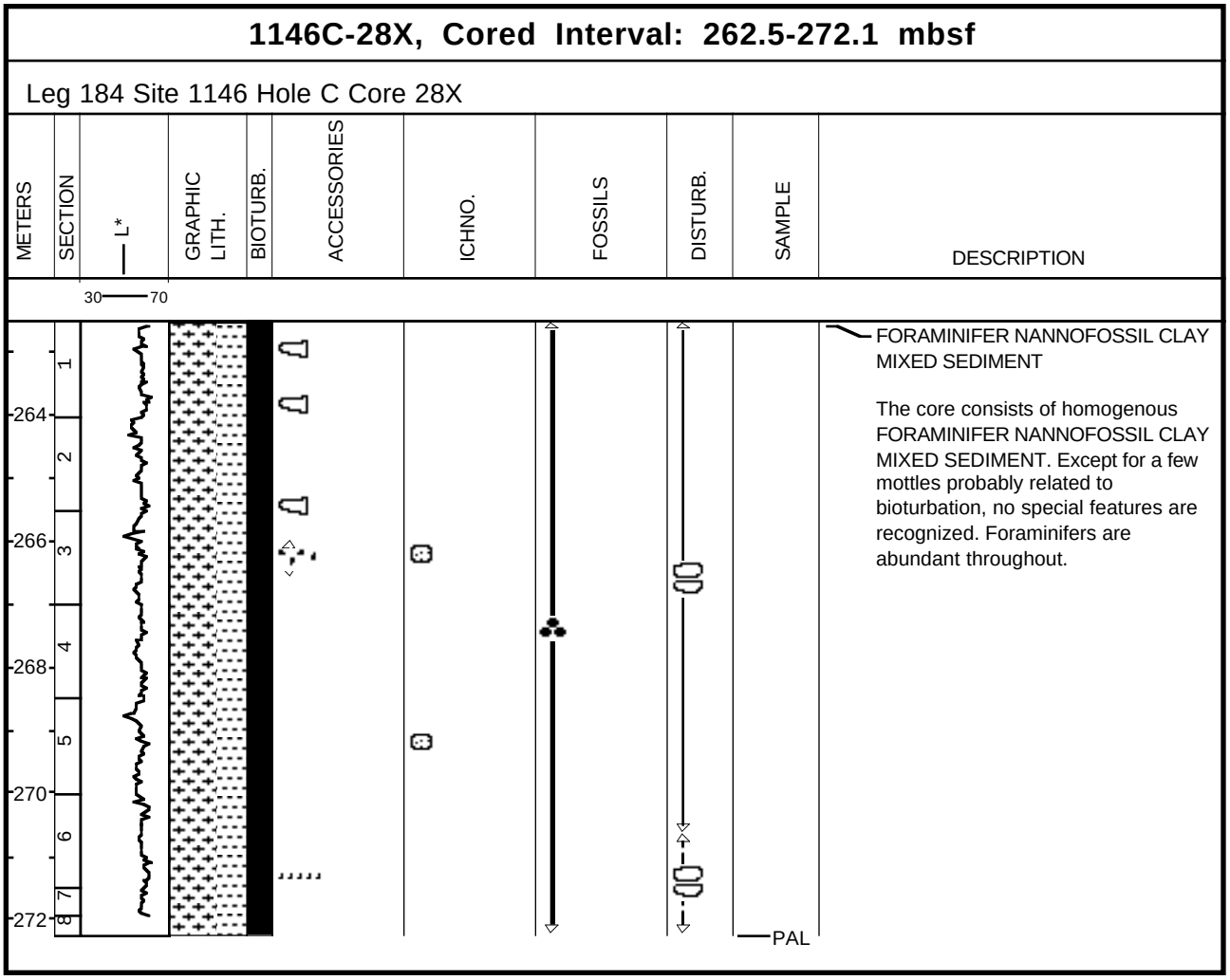
Core Photo


1146C-26X, Cored Interval: 243.3-252.9 mbsf
Leg 184 Site 1146 Hole C Core 26X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
244
246
248
250
252
1
2
3
4
5
6
7
8
Py
FES
FES
FES
Py
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core consists of homogenous FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. Only a few burrows are observed, part of them being replaced by pyrite. The others are characterized by "iron sulfide" staining. Foraminifers are abundant in all sections.

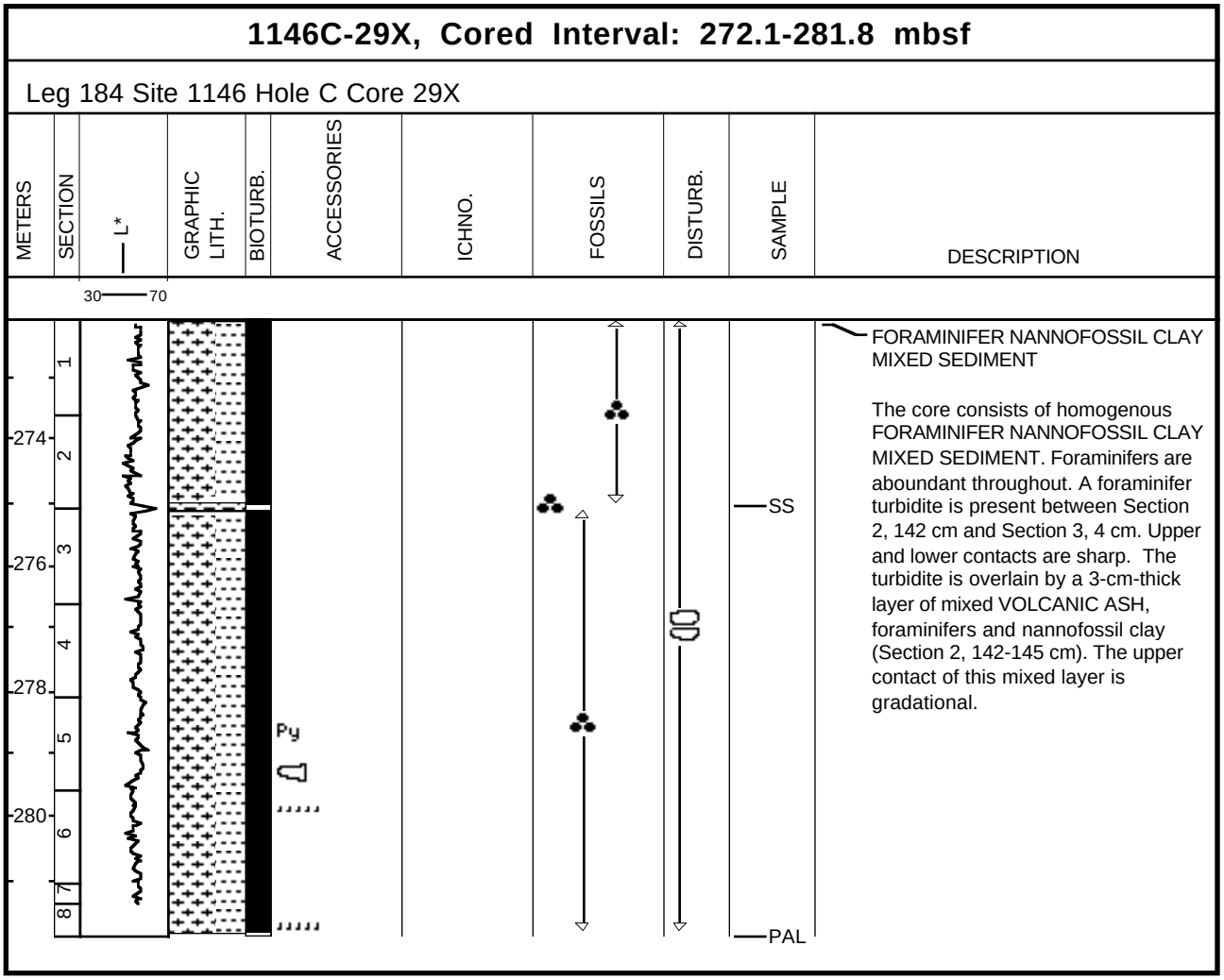
Core Photo


1146C-27X, Cored Interval: 252.9-262.5 mbsf
Leg 184 Site 1146 Hole C Core 27X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
254
256
258
260
262
1
2
3
4
5
6
7
8
Py
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core consists of monotonous FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. Foraminifers are abundant in all sections. Mottling is rare.

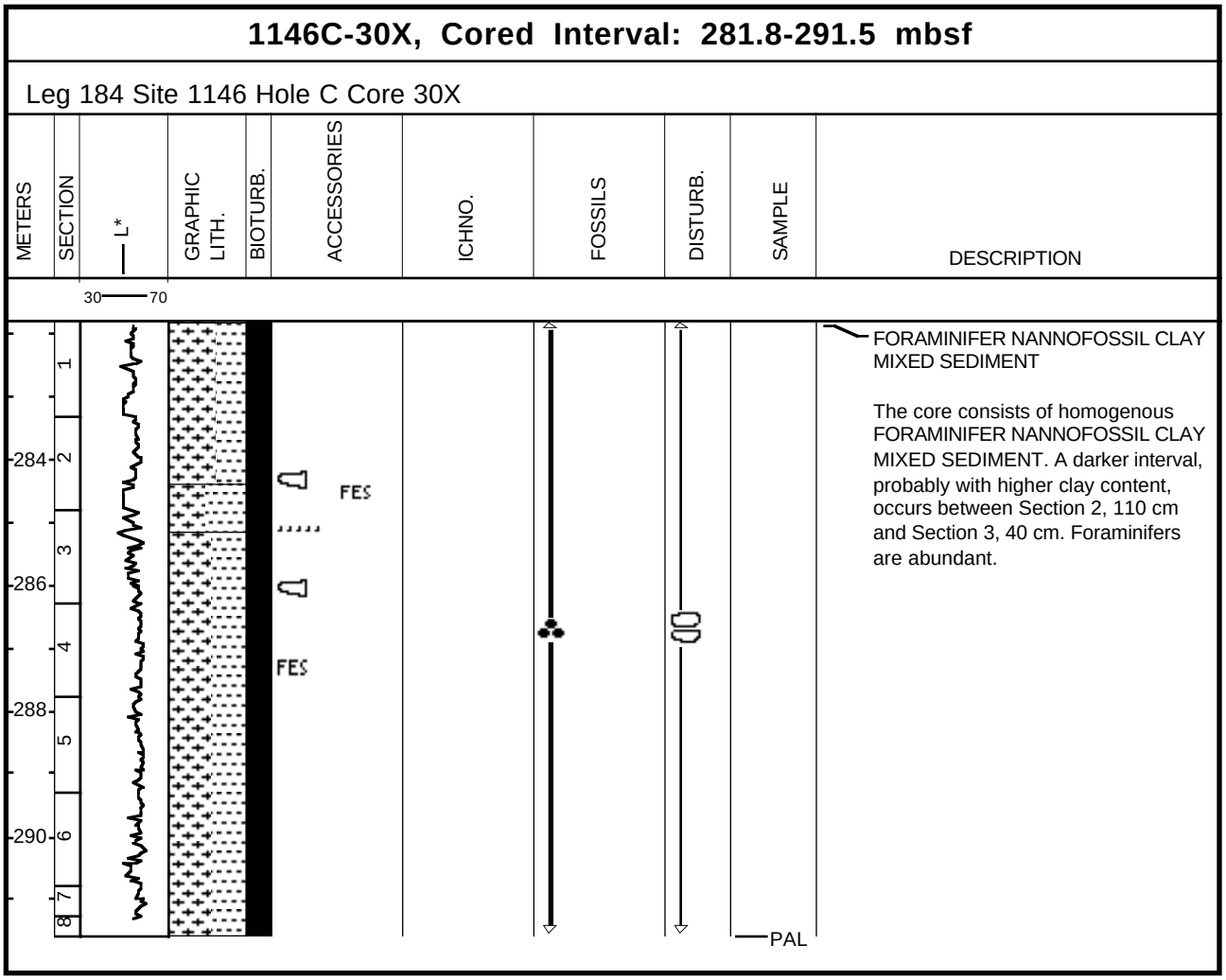
Core Photo


1146C-28X, Cored Interval: 262.5-272.1 mbsf
Leg 184 Site 1146 Hole C Core 28X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
264
266
268
270
272
1
2
3
4
5
6
7
CC
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core consists of homogenous FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. Except for a few mottles probably related to bioturbation, no special features are recognized. Foraminifers are abundant throughout.

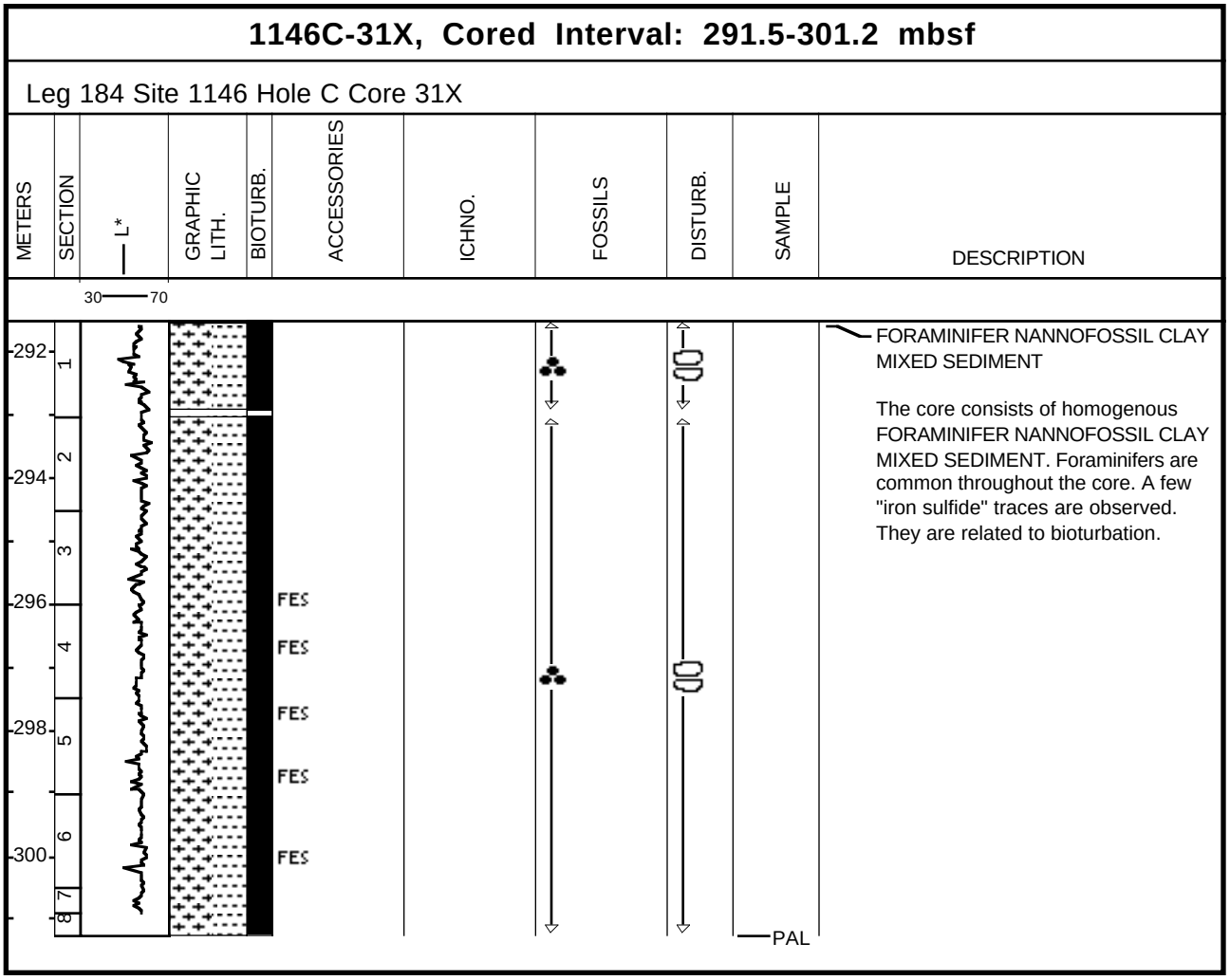
Core Photo


1146C-29X, Cored Interval: 272.1-281.8 mbsf
Leg 184 Site 1146 Hole C Core 29X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
274
276
278
280
1
2
3
4
5
6
7
8
Py
SS
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core consists of homogenous FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. Foraminifers are aboundant throughout. A foraminifer turbidite is present between Section 2, 142 cm and Section 3, 4 cm. Upper and lower contacts are sharp. The turbidite is overlain by a 3-cm-thick layer of mixed VOLCANIC ASH, foraminifers and nannofossil clay (Section 2, 142-145 cm). The upper contact of this mixed layer is gradational.

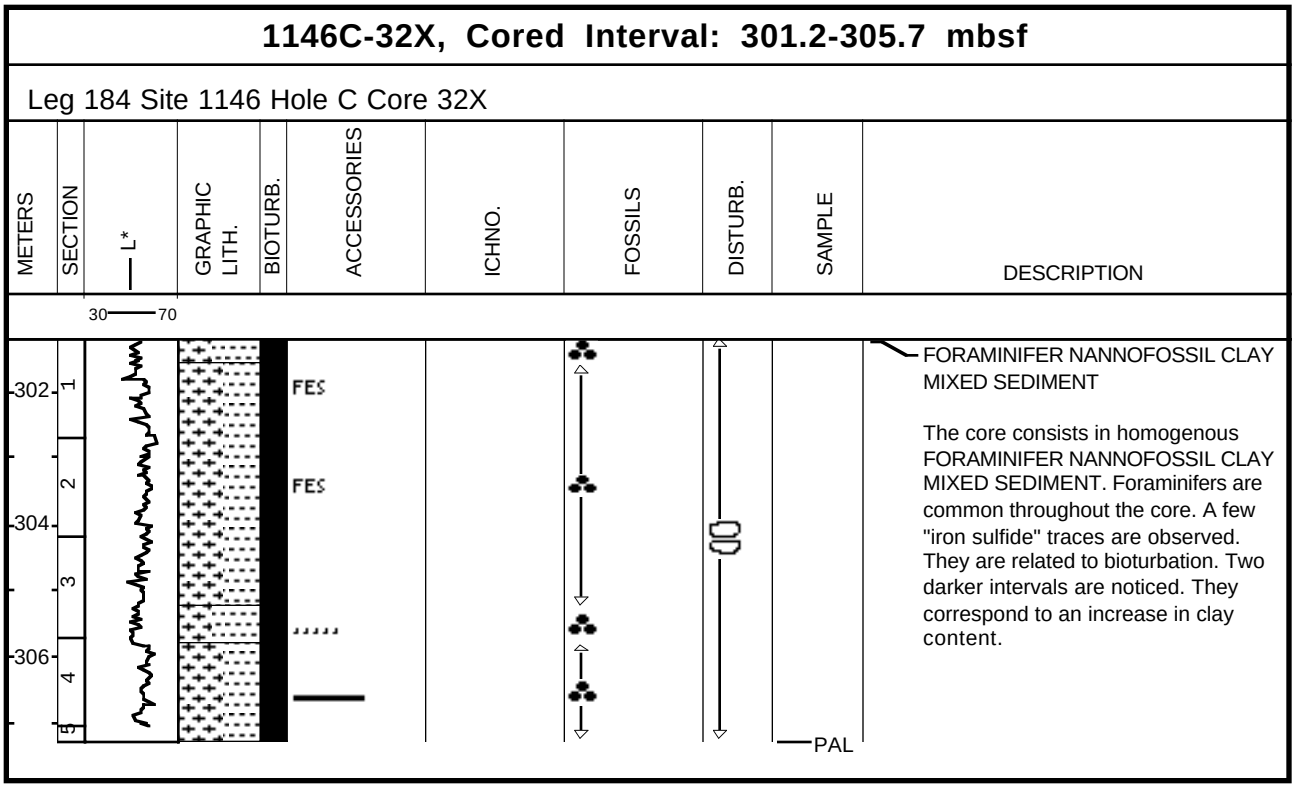
Core Photo


1146C-30X, Cored Interval: 281.8-291.5 mbsf
Leg 184 Site 1146 Hole C Core 30X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
284
286
288
290
1
2
3
4
5
6
7
8
FES
FES
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core consists of homogenous FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. A darker interval, probably with higher clay content, occurs between Section 2, 110 cm and Section 3, 40 cm. Foraminifers are abundant.

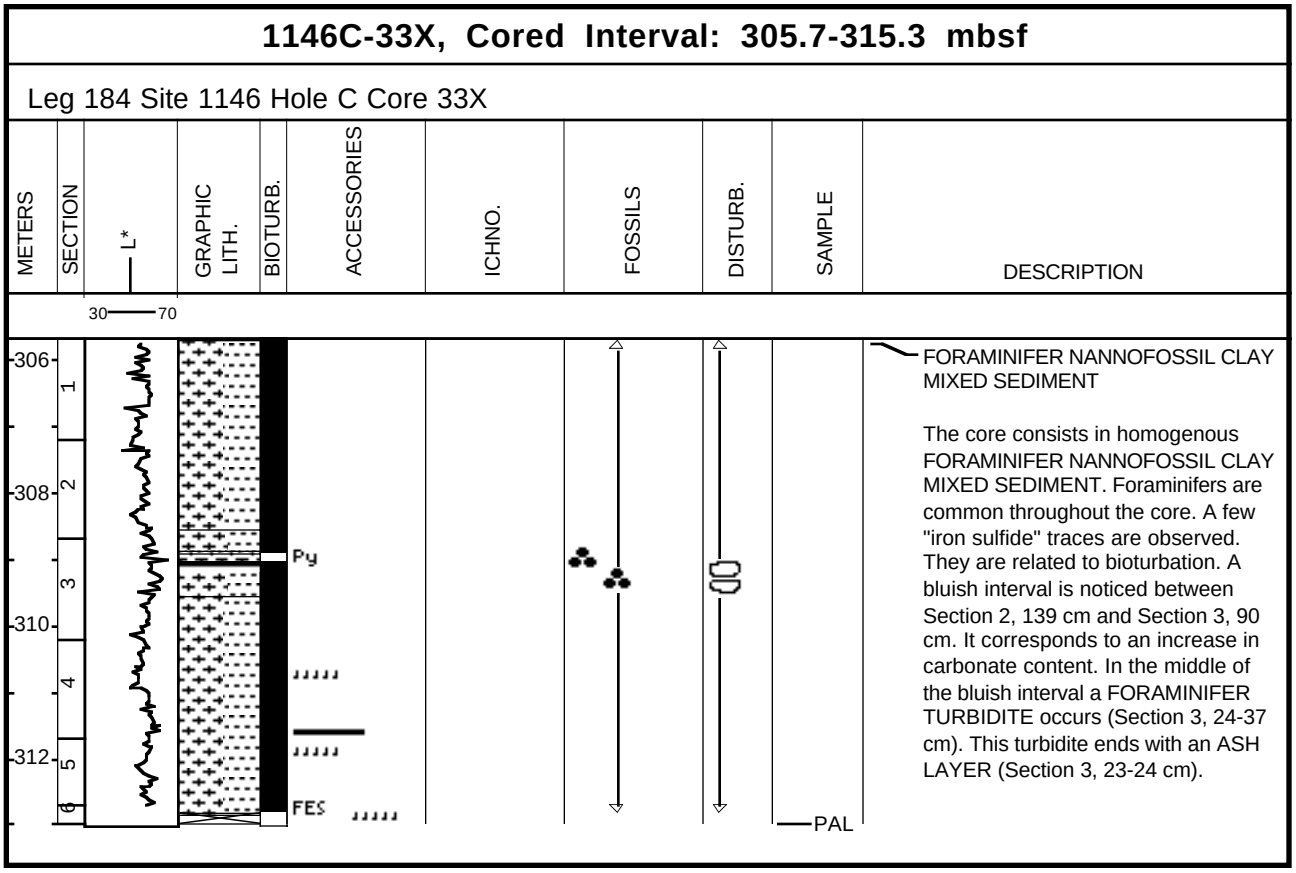
Core Photo


1146C-31X, Cored Interval: 291.5-301.2 mbsf
Leg 184 Site 1146 Hole C Core 31X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
292
294
296
298
300
1
2
3
4
5
6
7
8
FES
FES
FES
FES
FES
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core consists of homogenous FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. Foraminifers are common throughout the core. A few "iron sulfide" traces are observed. They are related to bioturbation.

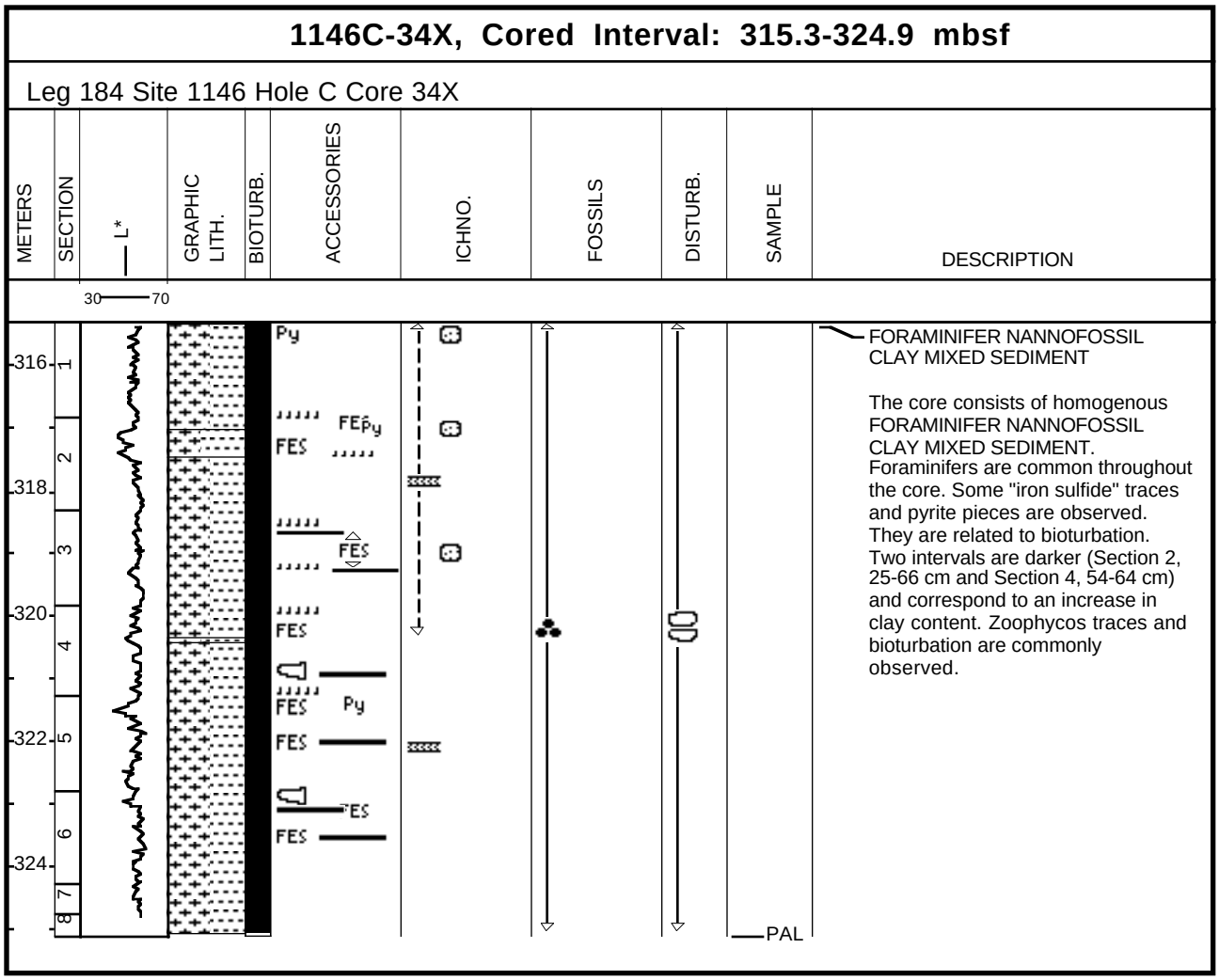
Core Photo


1146C-32X, Cored Interval: 301.2-305.7 mbsf
Leg 184 Site 1146 Hole C Core 32X
METERS
SECTION
L*
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
30
70
302
304
306
1
2
3
4
5
FES
FES
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core consists in homogenous FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. Foraminifers are common throughout the core. A few "iron sulfide" traces are observed. They are related to bioturbation. Two darker intervals are noticed. They correspond to an increase in clay content.

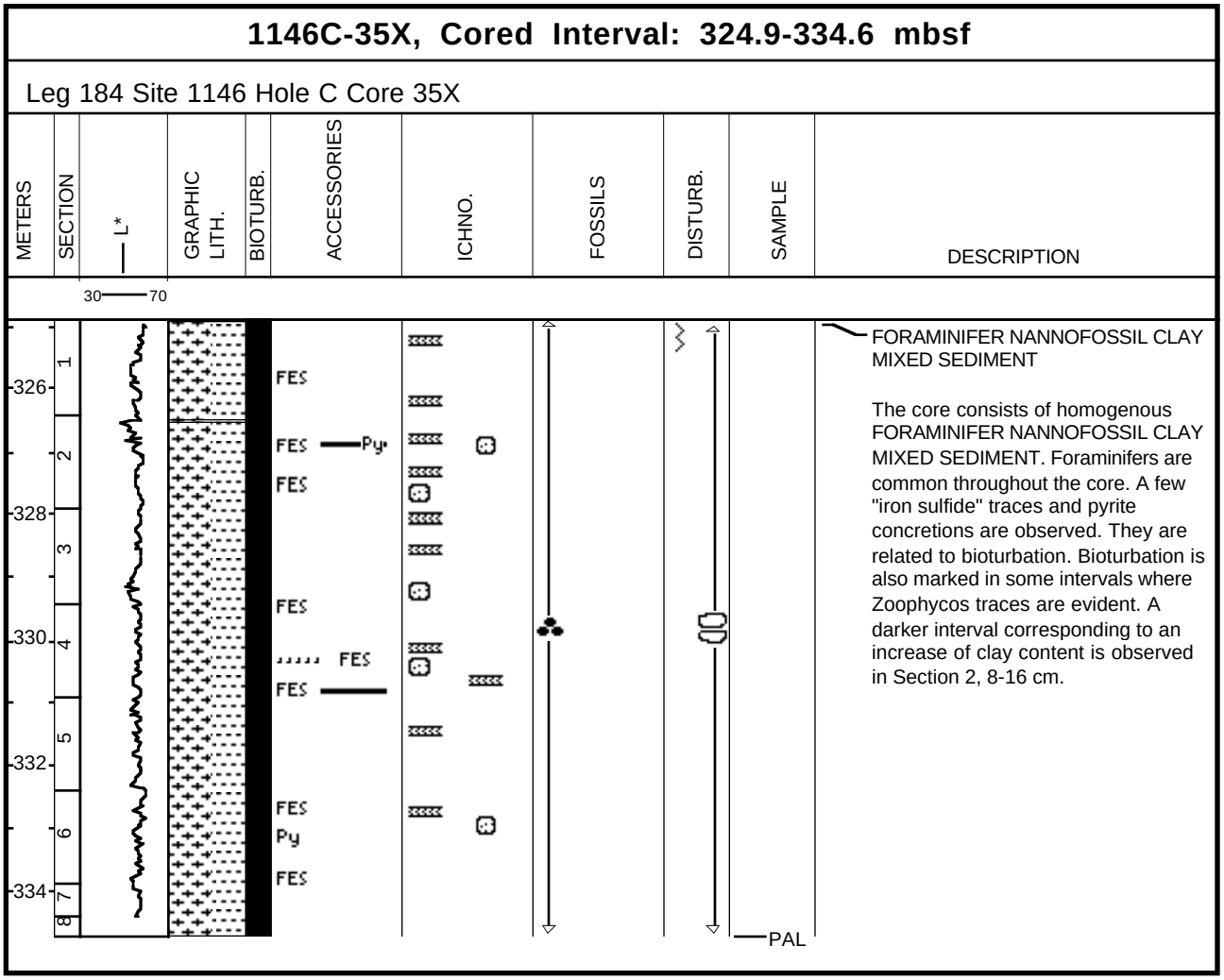
Core Photo


1146C-33X, Cored Interval: 305.7-315.3 mbsf
Leg 184 Site 1146 Hole C Core 33X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
306
308
310
312
1
2
3
4
5
6
Py
FES
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core consists in homogenous FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. Foraminifers are common throughout the core. A few "iron sulfide" traces are observed. They are related to bioturbation. A bluish interval is noticed between Section 2, 139 cm and Section 3, 90 cm. It corresponds to an increase in carbonate content. In the middle of the bluish interval a FORAMINIFER TURBIDITE occurs (Section 3, 24-37 cm). This turbidite ends with an ASH LAYER (Section 3, 23-24 cm).

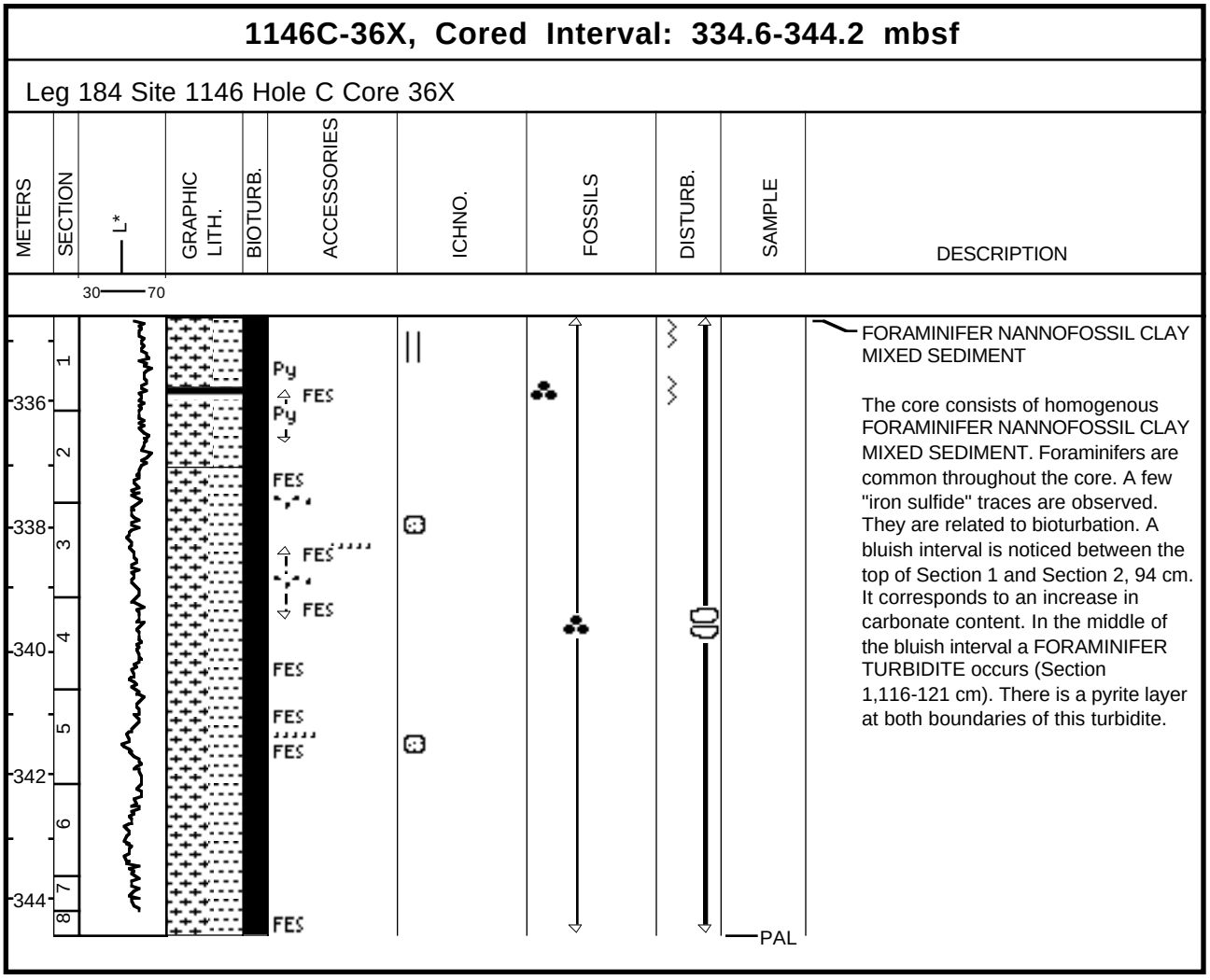
Core Photo


1146C-34X, Cored Interval: 315.3-324.9 mbsf
Leg 184 Site 1146 Hole C Core 34X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
316
318
320
322
324
1
2
3
4
5
6
7
Py
FES
FES
FES
FES
Py
FES
FES
FES
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core consists of homogenous FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. Foraminifers are common throughout the core. Some "iron sulfide" traces and pyrite pieces are observed. They are related to bioturbation. Two intervals are darker (Section 2, 25-66 cm and Section 4, 54-64 cm) and correspond to an increase in clay content. Zoophycos traces and bioturbation are commonly observed.

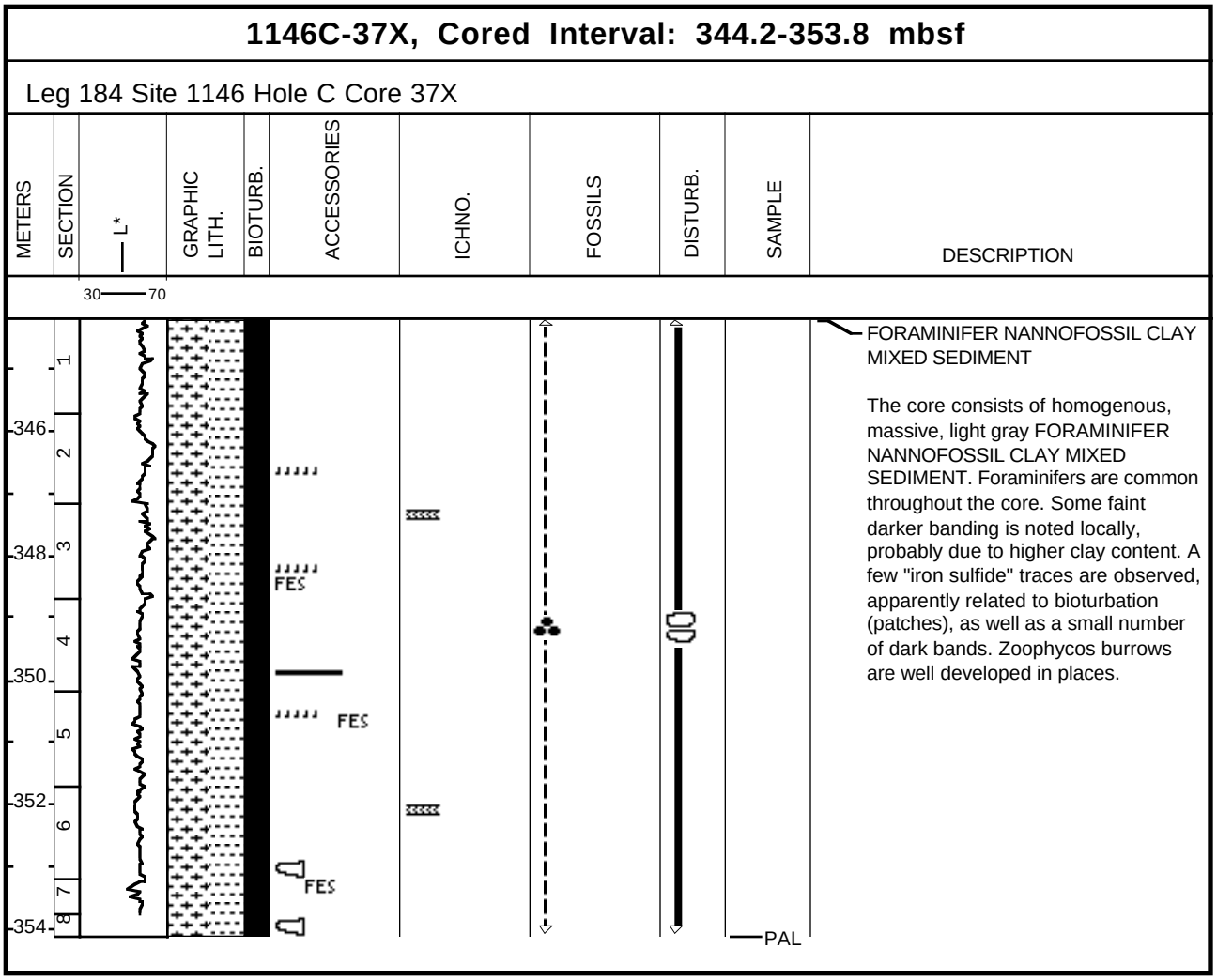
Core Photo


1146C-35X, Cored Interval: 324.9-334.6 mbsf
Leg 184 Site 1146 Hole C Core 35X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
326
328
330
332
334
1
2
3
4
5
6
7
8
FES
Py
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core consists of homogenous FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. Foraminifers are common throughout the core. A few "iron sulfide" traces and pyrite concretions are observed. They are related to bioturbation. Bioturbation is also marked in some intervals where Zoophycos traces are evident. A darker interval corresponding to an increase of clay content is observed in Section 2, 8-16 cm.

Core Photo


1146C-36X, Cored Interval: 334.6-344.2 mbsf
Leg 184 Site 1146 Hole C Core 36X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
336
338
340
342
344
1
2
3
4
5
6
7
8
Py
FES
Py
FES
FES
FES
FES
FES
FES
FES
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core consists of homogenous FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. Foraminifers are common throughout the core. A few "iron sulfide" traces are observed. They are related to bioturbation. A bluish interval is noticed between the top of Section 1 and Section 2, 94 cm. It corresponds to an increase in carbonate content. In the middle of the bluish interval a FORAMINIFER TURBIDITE occurs (Section 1,116-121 cm). There is a pyrite layer at both boundaries of this turbidite.

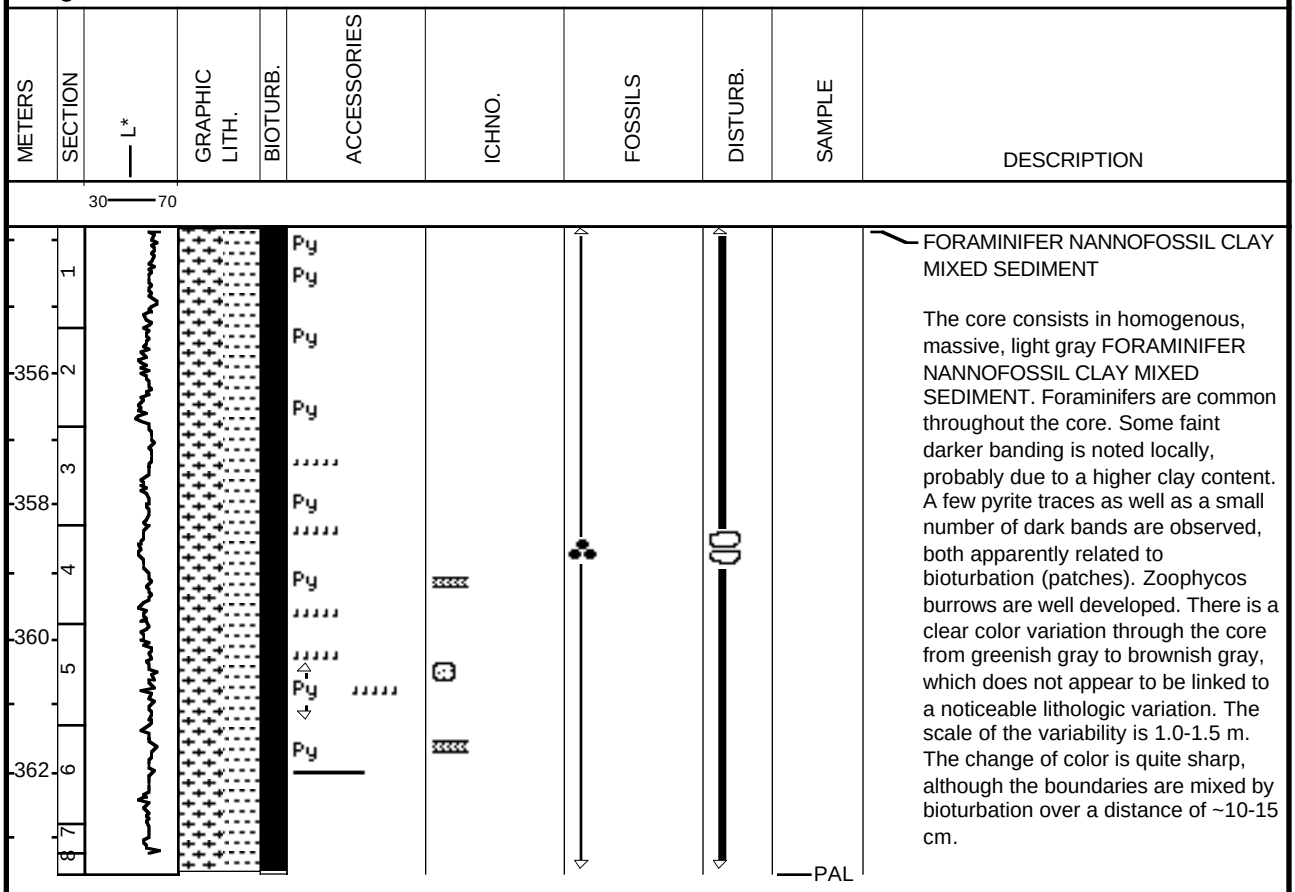
Core Photo


1146C-37X, Cored Interval: 344.2-353.8 mbsf
Leg 184 Site 1146 Hole C Core 37X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
346
348
350
352
354
1
2
3
4
5
6
7
8
FES
FES
FES
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core consists of homogenous, massive, light gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. Foraminifers are common throughout the core. Some faint darker banding is noted locally, probably due to higher clay content. A few "iron sulfide" traces are observed, apparently related to bioturbation (patches), as well as a small number of dark bands. Zoophycos burrows are well developed in places.

Core Photo

1146C-38X, Cored Interval: 353.8-363.5 mbsf

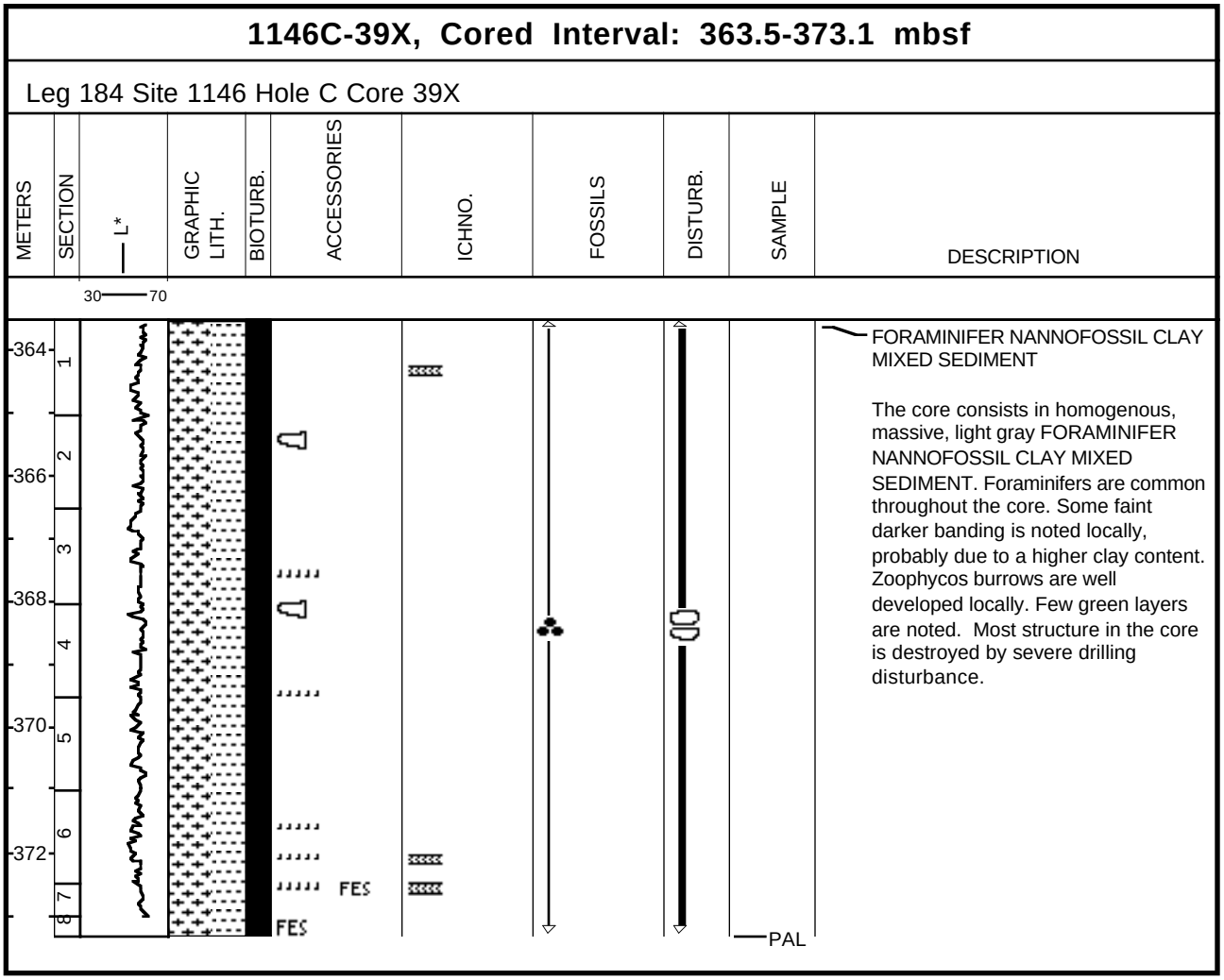
Leg 184 Site 1146 Hole C Core 38X



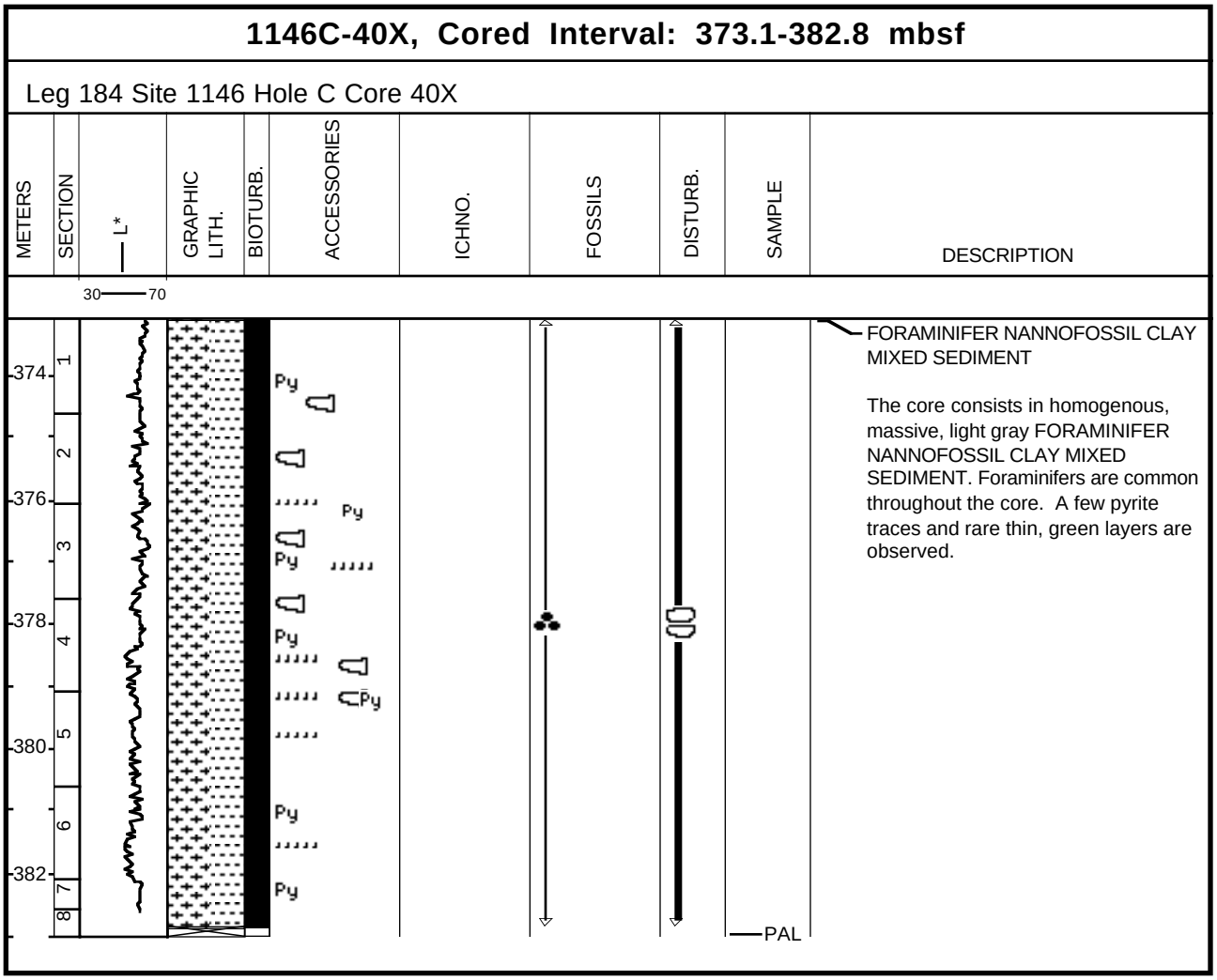
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT

The core consists in homogenous, massive, light gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. Foraminifers are common throughout the core. Some faint darker banding is noted locally, probably due to a higher clay content. A few pyrite traces as well as a small number of dark bands are observed, both apparently related to bioturbation (patches). Zoophycos burrows are well developed. There is a clear color variation through the core from greenish gray to brownish gray, which does not appear to be linked to a noticeable lithologic variation. The scale of the variability is 1.0-1.5 m. The change of color is quite sharp, although the boundaries are mixed by bioturbation over a distance of ~10-15 cm.

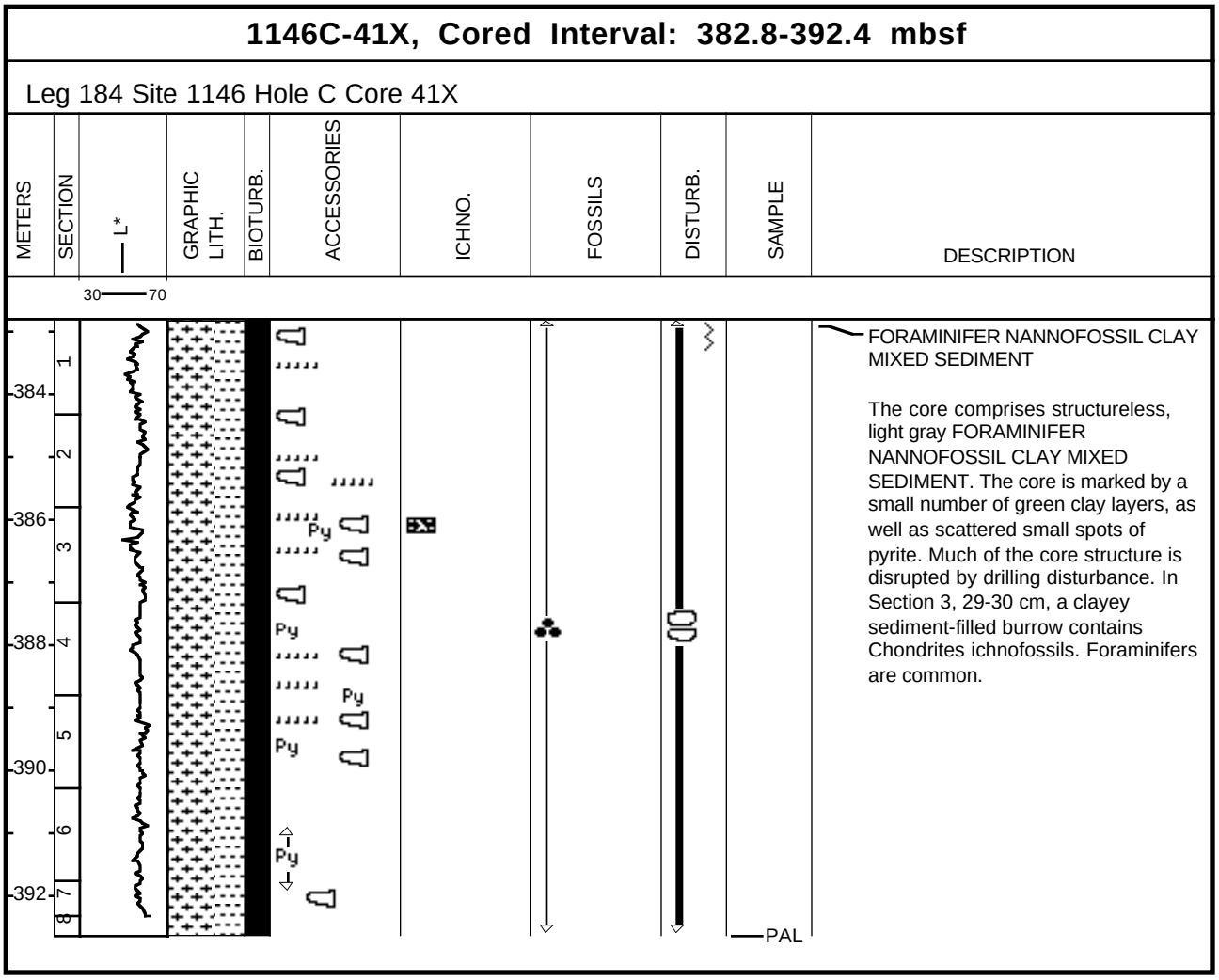
Core Photo


1146C-39X, Cored Interval: 363.5-373.1 mbsf
Leg 184 Site 1146 Hole C Core 39X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
364
366
368
370
372
1
2
3
4
5
6
7
FES
FES
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core consists in homogenous, massive, light gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. Foraminifers are common throughout the core. Some faint darker banding is noted locally, probably due to a higher clay content. Zoophycos burrows are well developed locally. Few green layers are noted. Most structure in the core is destroyed by severe drilling disturbance.

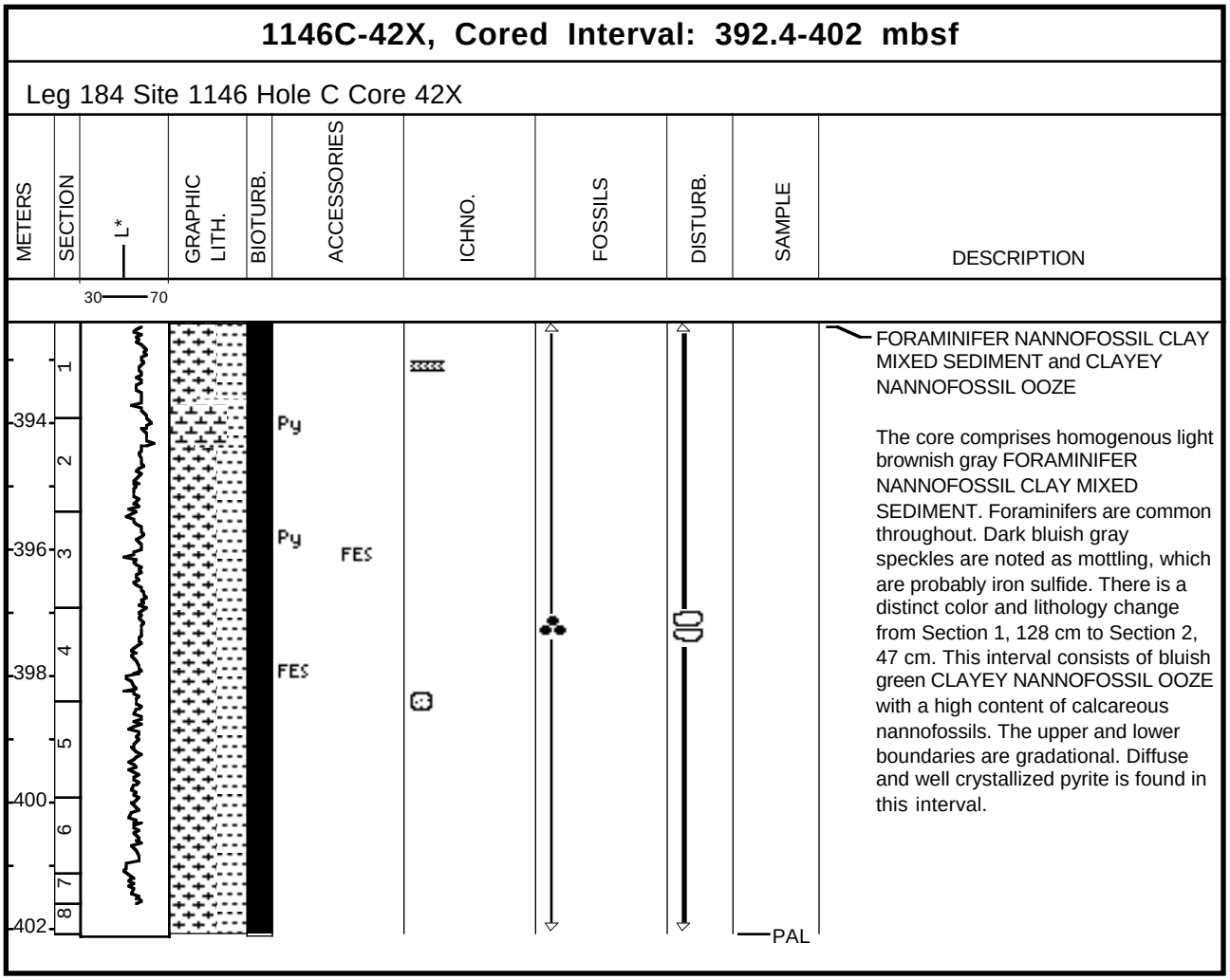
Core Photo


1146C-40X, Cored Interval: 373.1-382.8 mbsf
Leg 184 Site 1146 Hole C Core 40X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
374
376
378
380
382
1
2
3
4
5
6
7
8
Py
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core consists in homogenous, massive, light gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. Foraminifers are common throughout the core. A few pyrite traces and rare thin, green layers are observed.

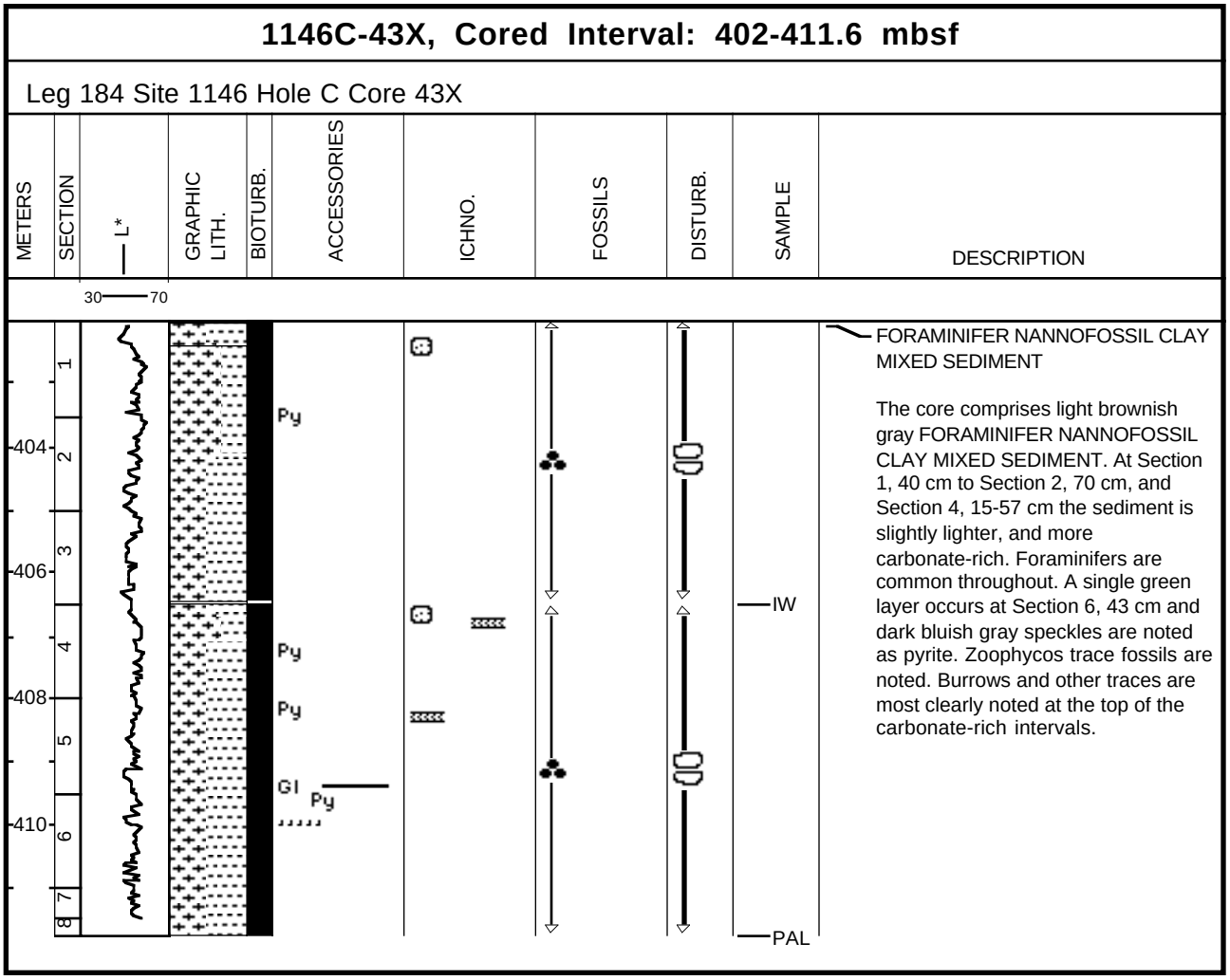
Core Photo


1146C-41X, Cored Interval: 382.8-392.4 mbsf
Leg 184 Site 1146 Hole C Core 41X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
384
386
388
390
392
1
2
3
4
5
6
7
Py
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core comprises structureless, light gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. The core is marked by a small number of green clay layers, as well as scattered small spots of pyrite. Much of the core structure is disrupted by drilling disturbance. In Section 3, 29-30 cm, a clayey sediment-filled burrow contains Chondrites ichnofossils. Foraminifers are common.

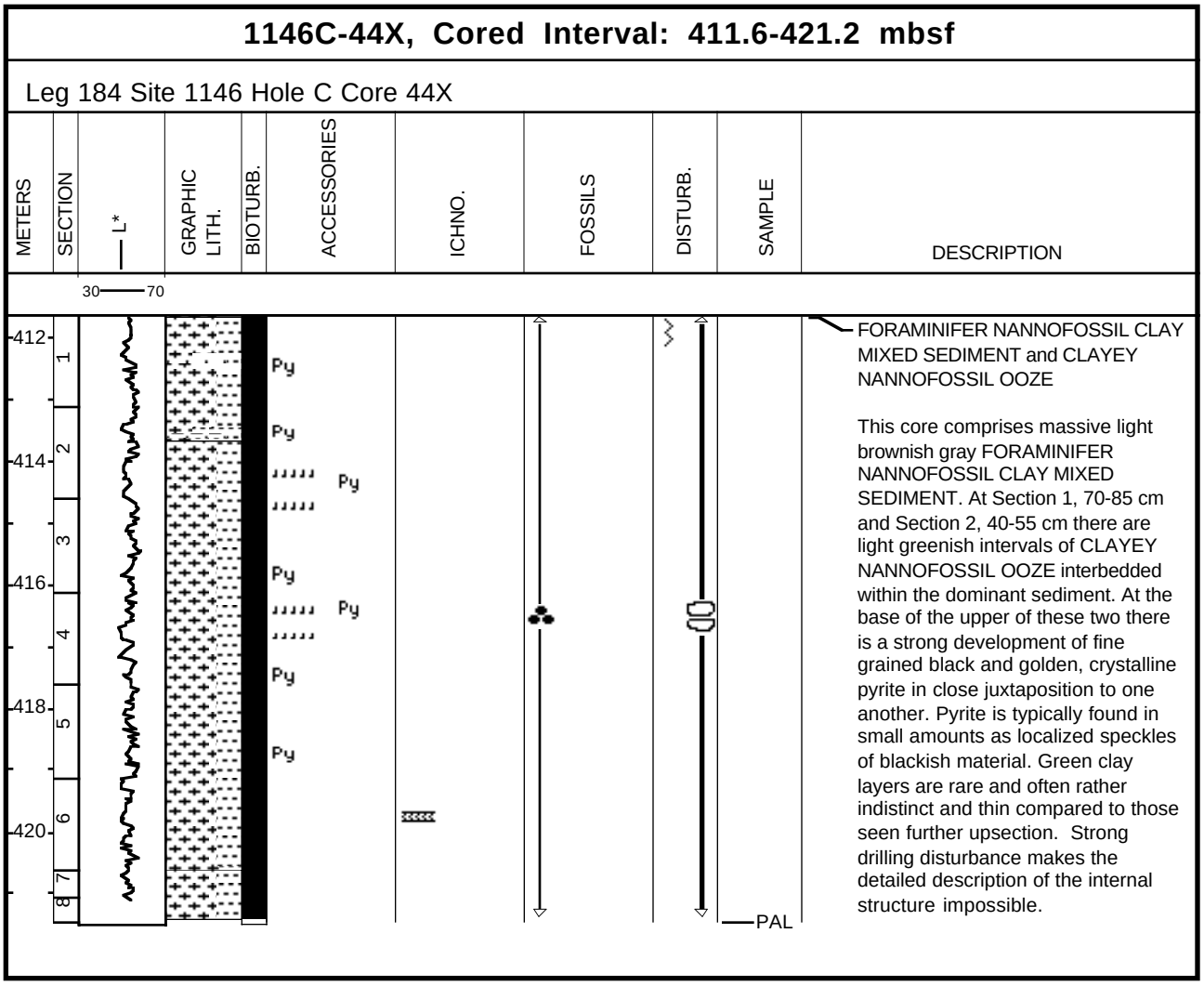
Core Photo


1146C-42X, Cored Interval: 392.4-402 mbsf
Leg 184 Site 1146 Hole C Core 42X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
394
396
398
400
402
1
2
3
4
5
6
7
8
Py
Py
FES
FES
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT and CLAYEY NANNOFOSSIL OOZE
The core comprises homogenous light brownish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. Foraminifers are common throughout. Dark bluish gray speckles are noted as mottling, which are probably iron sulfide. There is a distinct color and lithology change from Section 1, 128 cm to Section 2, 47 cm. This interval consists of bluish green CLAYEY NANNOFOSSIL OOZE with a high content of calcareous nannofossils. The upper and lower boundaries are gradational. Diffuse and well crystallized pyrite is found in this interval.

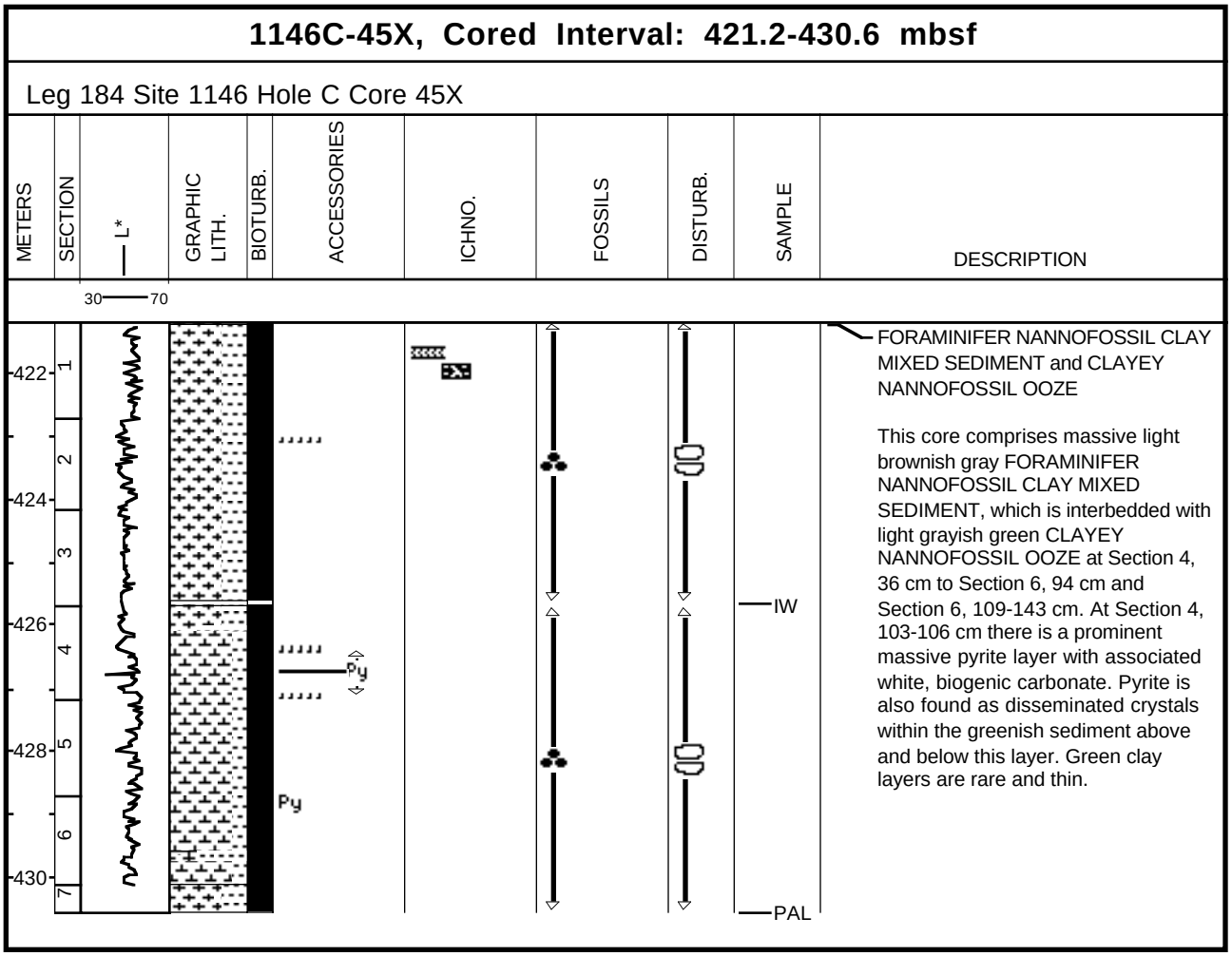
Core Photo


1146C-43X, Cored Interval: 402-411.6 mbsf
Leg 184 Site 1146 Hole C Core 43X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
404
406
408
410
1
2
3
4
5
6
7
8
Py
Py
Py
Gl
Py
IW
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
The core comprises light brownish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. At Section 1, 40 cm to Section 2, 70 cm, and Section 4, 15-57 cm the sediment is slightly lighter, and more carbonate-rich. Foraminifers are common throughout. A single green layer occurs at Section 6, 43 cm and dark bluish gray speckles are noted as pyrite. Zoophycos trace fossils are noted. Burrows and other traces are most clearly noted at the top of the carbonate-rich intervals.

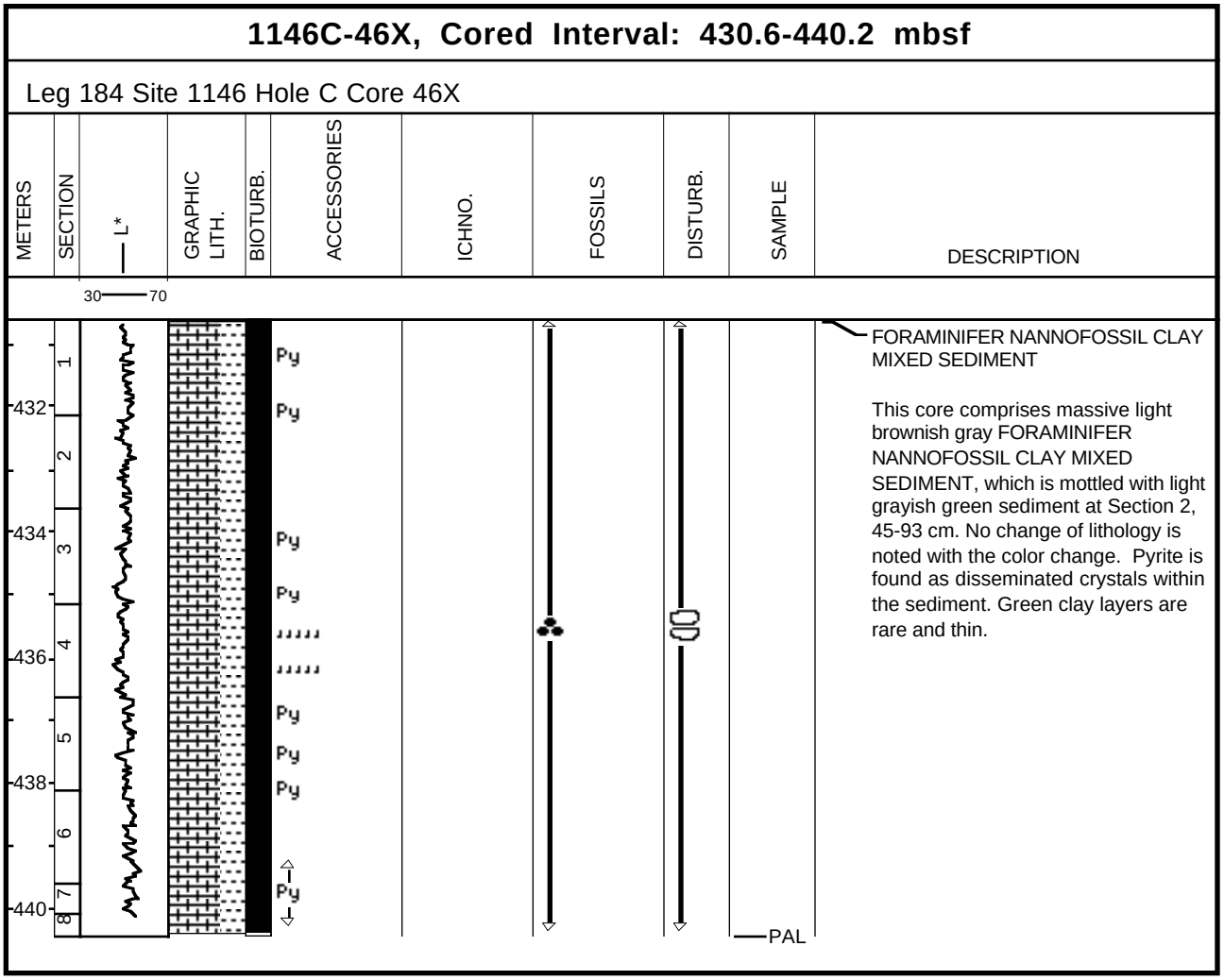
Core Photo


1146C-44X, Cored Interval: 411.6-421.2 mbsf
Leg 184 Site 1146 Hole C Core 44X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
412
414
416
418
420
1
2
3
4
5
6
7
Py
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT and CLAYEY NANNOFOSSIL OOZE
This core comprises massive light brownish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. At Section 1, 70-85 cm and Section 2, 40-55 cm there are light greenish intervals of CLAYEY NANNOFOSSIL OOZE interbedded within the dominant sediment. At the base of the upper of these two there is a strong development of fine grained black and golden, crystalline pyrite in close juxtaposition to one another. Pyrite is typically found in small amounts as localized speckles of blackish material. Green clay layers are rare and often rather indistinct and thin compared to those seen further upsection. Strong drilling disturbance makes the detailed description of the internal structure impossible.

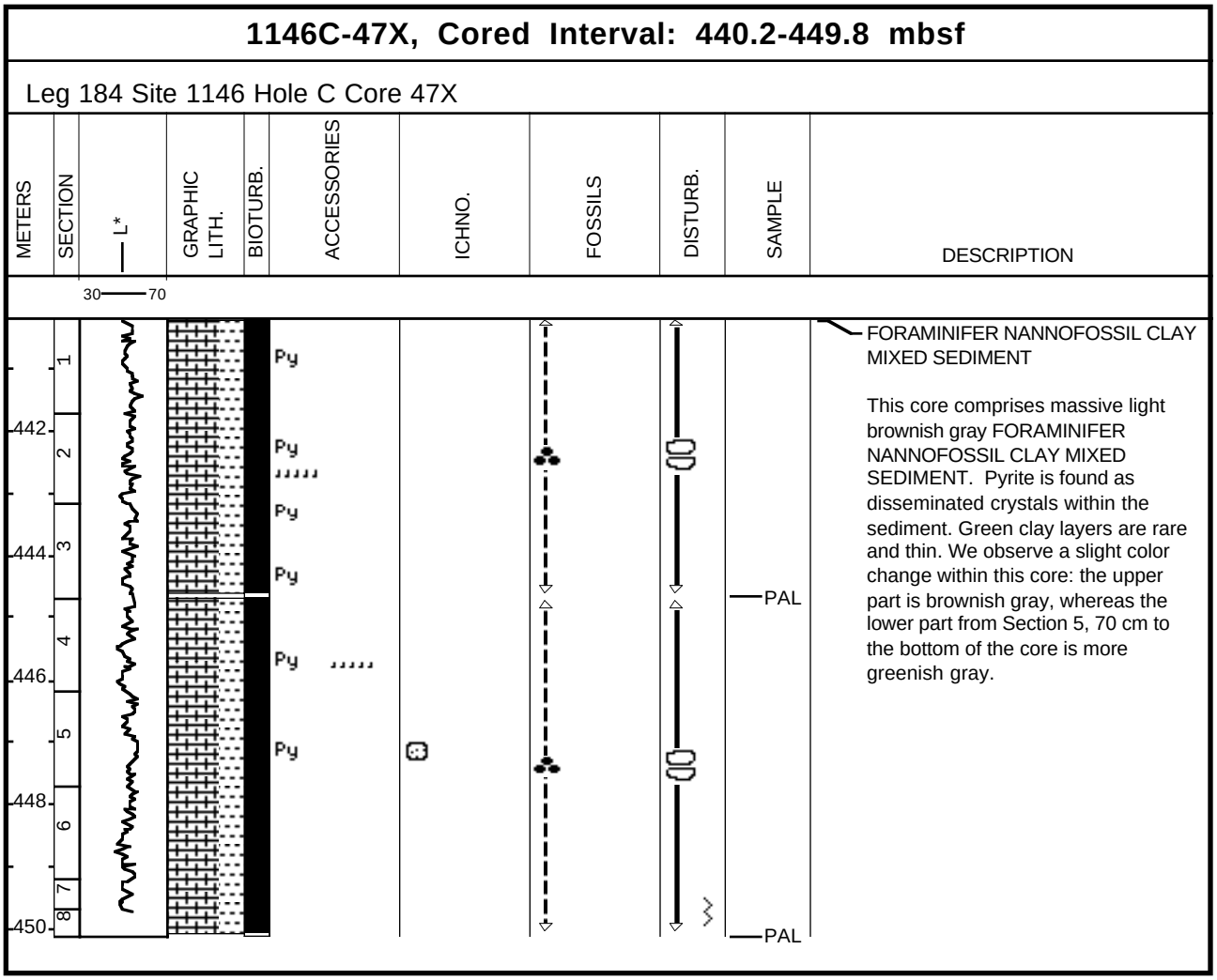
Core Photo


1146C-45X, Cored Interval: 421.2-430.6 mbsf
Leg 184 Site 1146 Hole C Core 45X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
422
424
426
428
430
1
2
3
4
5
6
7
Py
Py
IW
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT and CLAYEY NANNOFOSSIL OOZE
This core comprises massive light brownish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT, which is interbedded with light grayish green CLAYEY NANNOFOSSIL OOZE at Section 4, 36 cm to Section 6, 94 cm and Section 6, 109-143 cm. At Section 4, 103-106 cm there is a prominent massive pyrite layer with associated white, biogenic carbonate. Pyrite is also found as disseminated crystals within the greenish sediment above and below this layer. Green clay layers are rare and thin.

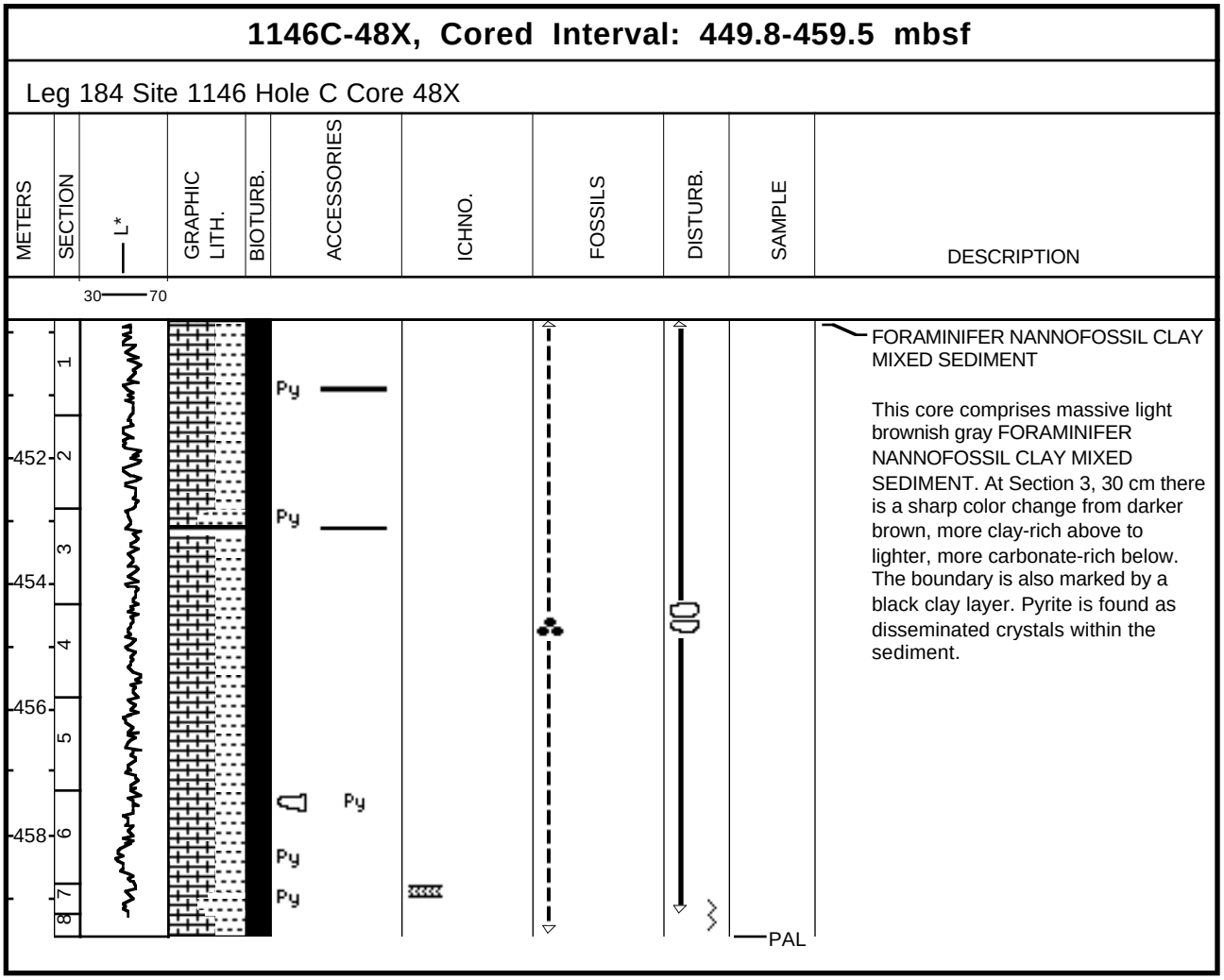
Core Photo


1146C-46X, Cored Interval: 430.6-440.2 mbsf
Leg 184 Site 1146 Hole C Core 46X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
432
434
436
438
440
1
2
3
4
5
6
7
8
Py
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
This core comprises massive light brownish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT, which is mottled with light grayish green sediment at Section 2, 45-93 cm. No change of lithology is noted with the color change. Pyrite is found as disseminated crystals within the sediment. Green clay layers are rare and thin.

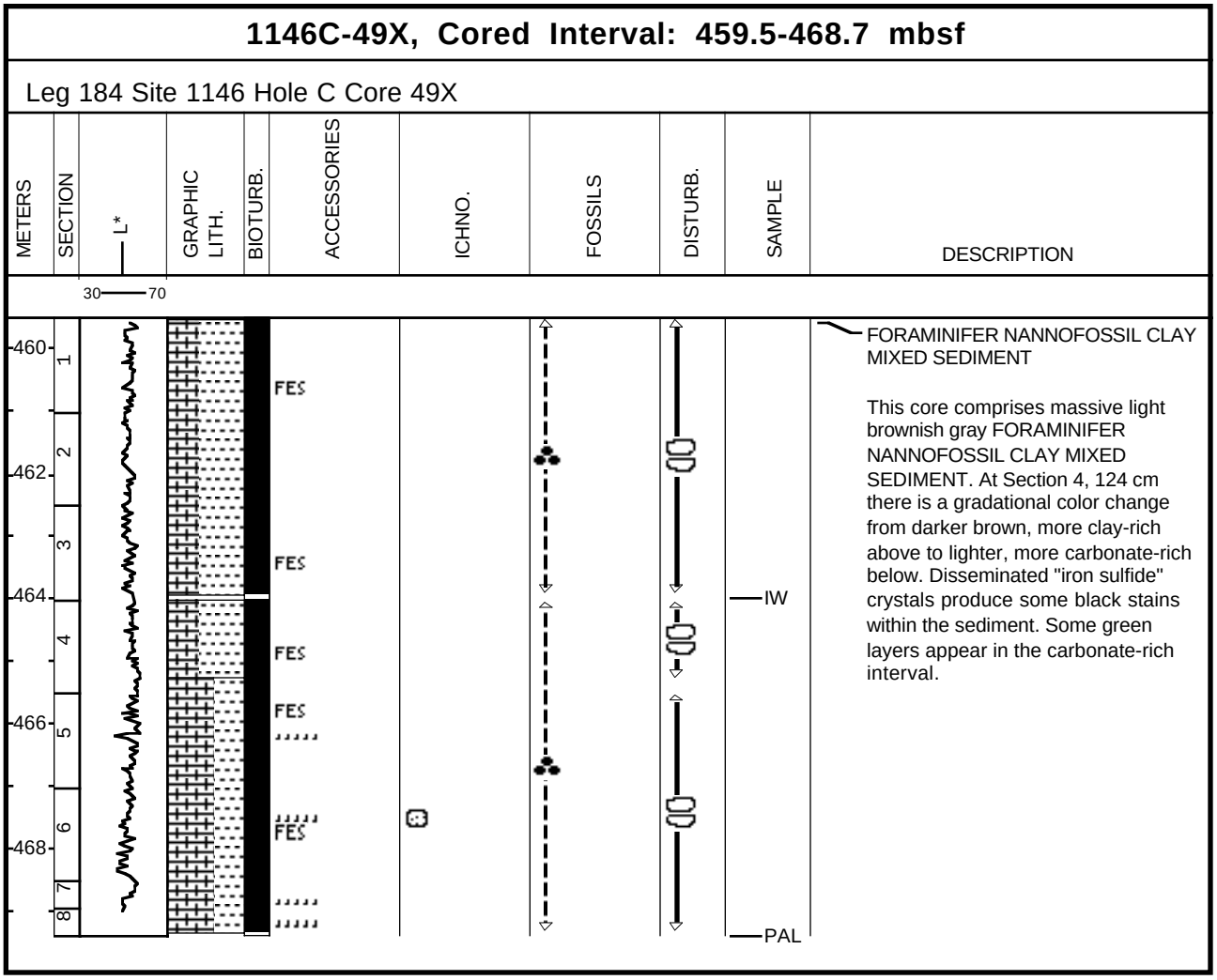
Core Photo


1146C-47X, Cored Interval: 440.2-449.8 mbsf
Leg 184 Site 1146 Hole C Core 47X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
442
444
446
448
450
1
2
3
4
5
6
7
8
Py
PAL
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
This core comprises massive light brownish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. Pyrite is found as disseminated crystals within the sediment. Green clay layers are rare and thin. We observe a slight color change within this core: the upper part is brownish gray, whereas the lower part from Section 5, 70 cm to the bottom of the core is more greenish gray.

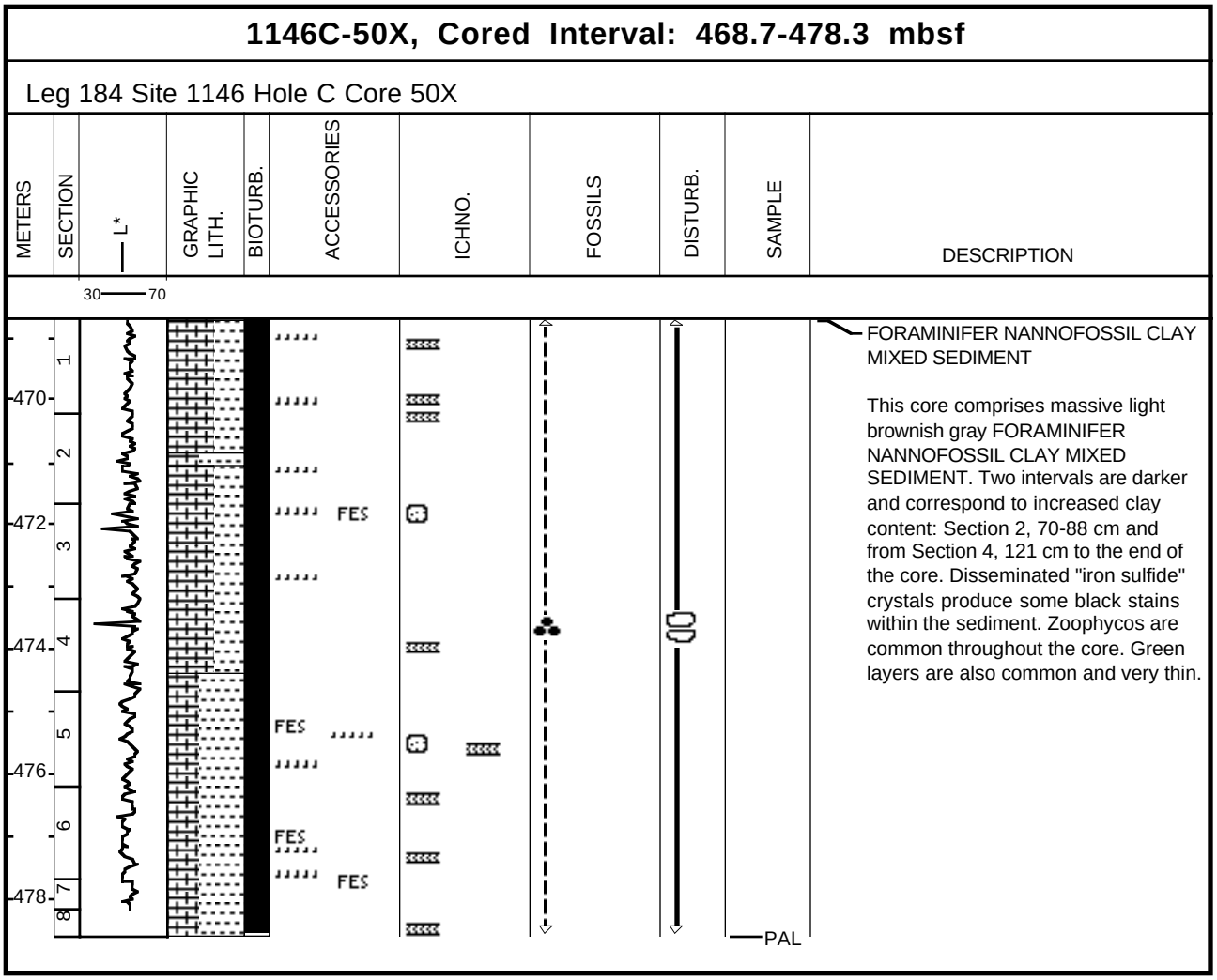
Core Photo


1146C-48X, Cored Interval: 449.8-459.5 mbsf
Leg 184 Site 1146 Hole C Core 48X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
452
454
456
458
1
2
3
4
5
6
7
8
Py
Py
Py
Py
Py
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
This core comprises massive light brownish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. At Section 3, 30 cm there is a sharp color change from darker brown, more clay-rich above to lighter, more carbonate-rich below. The boundary is also marked by a black clay layer. Pyrite is found as disseminated crystals within the sediment.

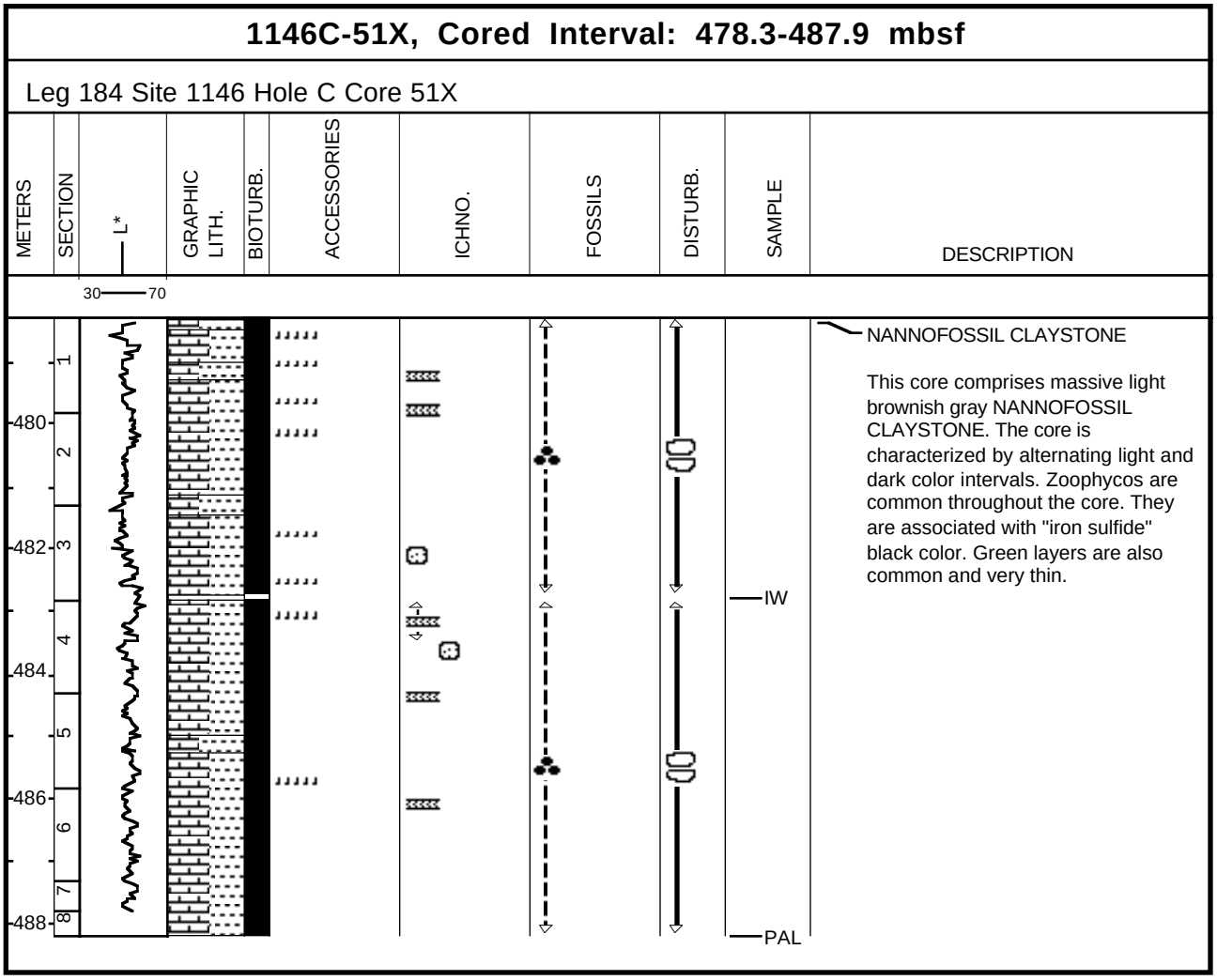
Core Photo


1146C-49X, Cored Interval: 459.5-468.7 mbsf
Leg 184 Site 1146 Hole C Core 49X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
460
462
464
466
468
1
2
3
4
5
6
7
8
FES
FES
FES
FES
IW
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
This core comprises massive light brownish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. At Section 4, 124 cm there is a gradational color change from darker brown, more clay-rich above to lighter, more carbonate-rich below. Disseminated "iron sulfide" crystals produce some black stains within the sediment. Some green layers appear in the carbonate-rich interval.

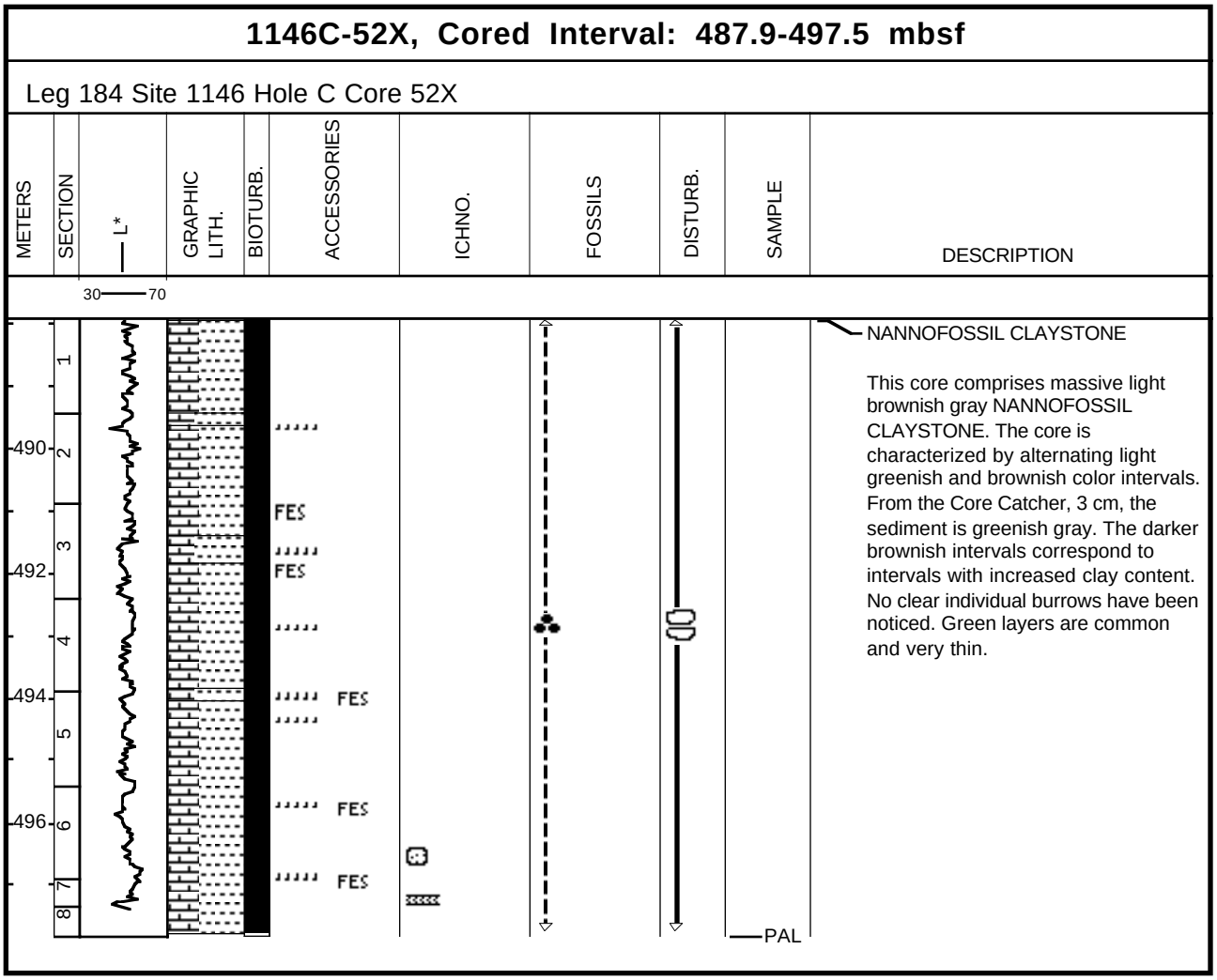
Core Photo


1146C-50X, Cored Interval: 468.7-478.3 mbsf
Leg 184 Site 1146 Hole C Core 50X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
470
472
474
476
478
1
2
3
4
5
6
7
8
FES
FES
FES
FES
PAL
FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT
This core comprises massive light brownish gray FORAMINIFER NANNOFOSSIL CLAY MIXED SEDIMENT. Two intervals are darker and correspond to increased clay content: Section 2, 70-88 cm and from Section 4, 121 cm to the end of the core. Disseminated "iron sulfide" crystals produce some black stains within the sediment. Zoophycos are common throughout the core. Green layers are also common and very thin.

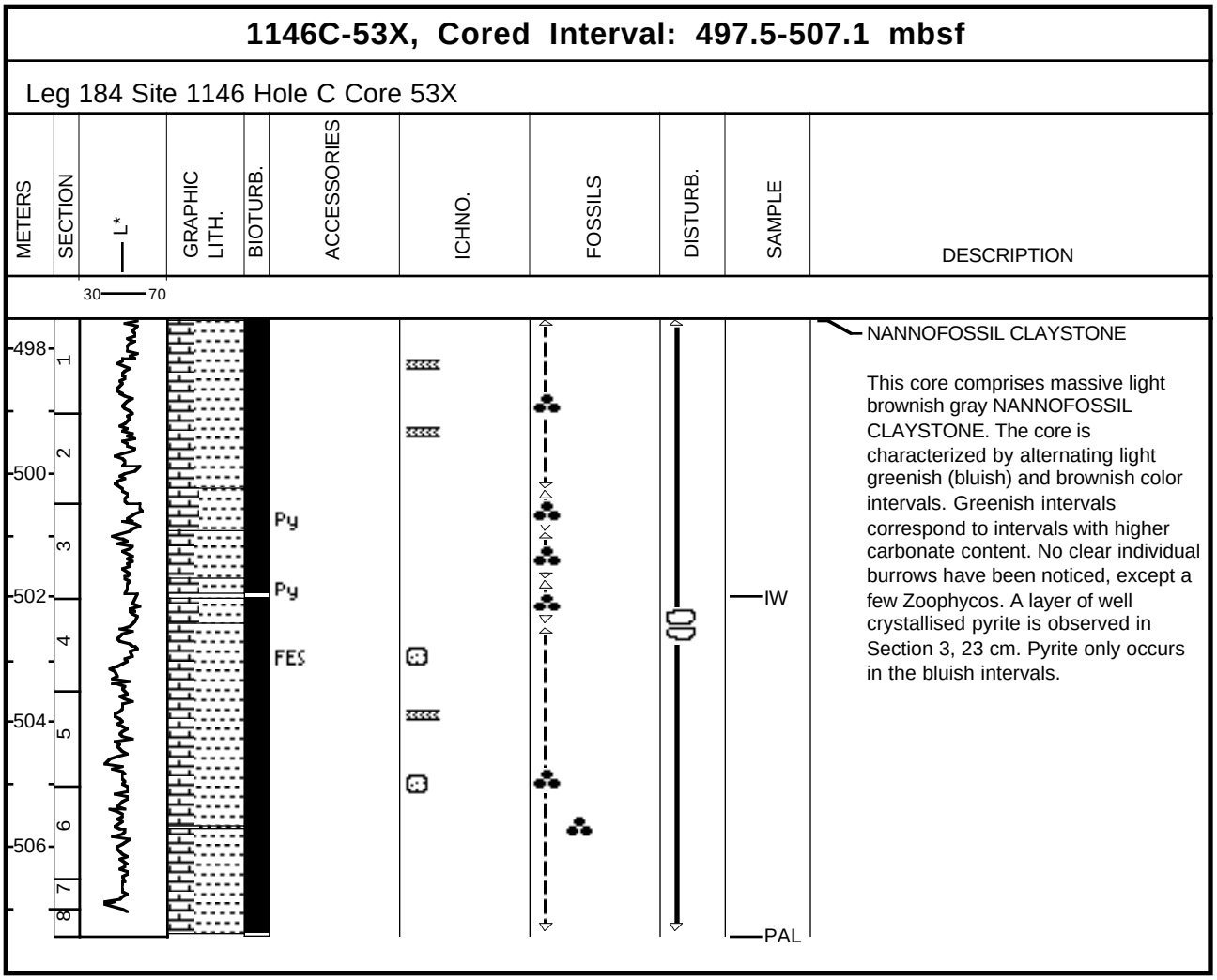
Core Photo


1146C-51X, Cored Interval: 478.3-487.9 mbsf
Leg 184 Site 1146 Hole C Core 51X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
480
482
484
486
488
1
2
3
4
5
6
7
8
IW
PAL
NANNOFOSSIL CLAYSTONE
This core comprises massive light brownish gray NANNOFOSSIL CLAYSTONE. The core is characterized by alternating light and dark color intervals. Zoophycos are common throughout the core. They are associated with "iron sulfide" black color. Green layers are also common and very thin.

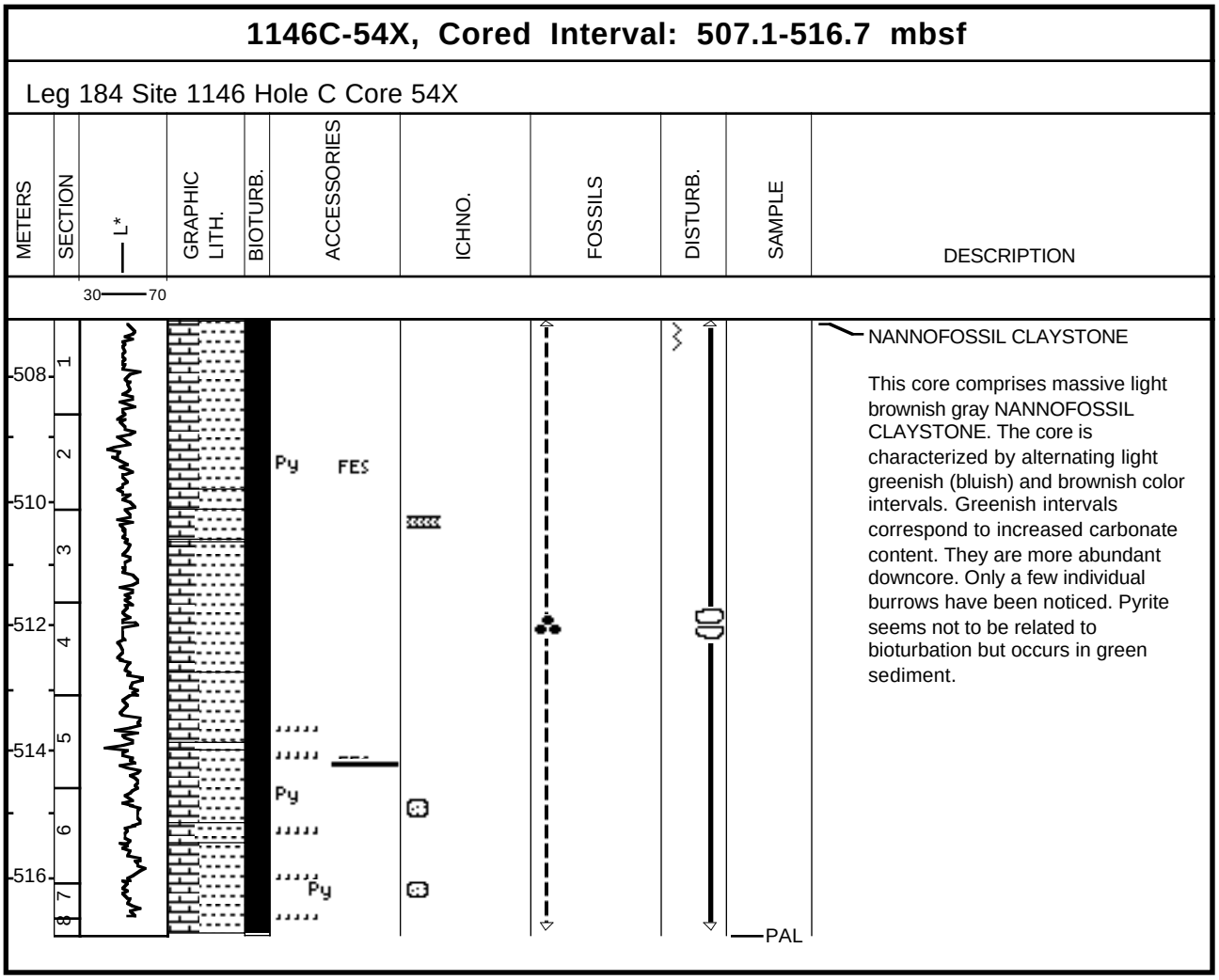
Core Photo


1146C-52X, Cored Interval: 487.9-497.5 mbsf
Leg 184 Site 1146 Hole C Core 52X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
490
492
494
496
1
2
3
4
5
6
7
8
FES
FES
FES
FES
FES
PAL
NANNOFOSSIL CLAYSTONE
This core comprises massive light brownish gray NANNOFOSSIL CLAYSTONE. The core is characterized by alternating light greenish and brownish color intervals. From the Core Catcher, 3 cm, the sediment is greenish gray. The darker brownish intervals correspond to intervals with increased clay content. No clear individual burrows have been noticed. Green layers are common and very thin.

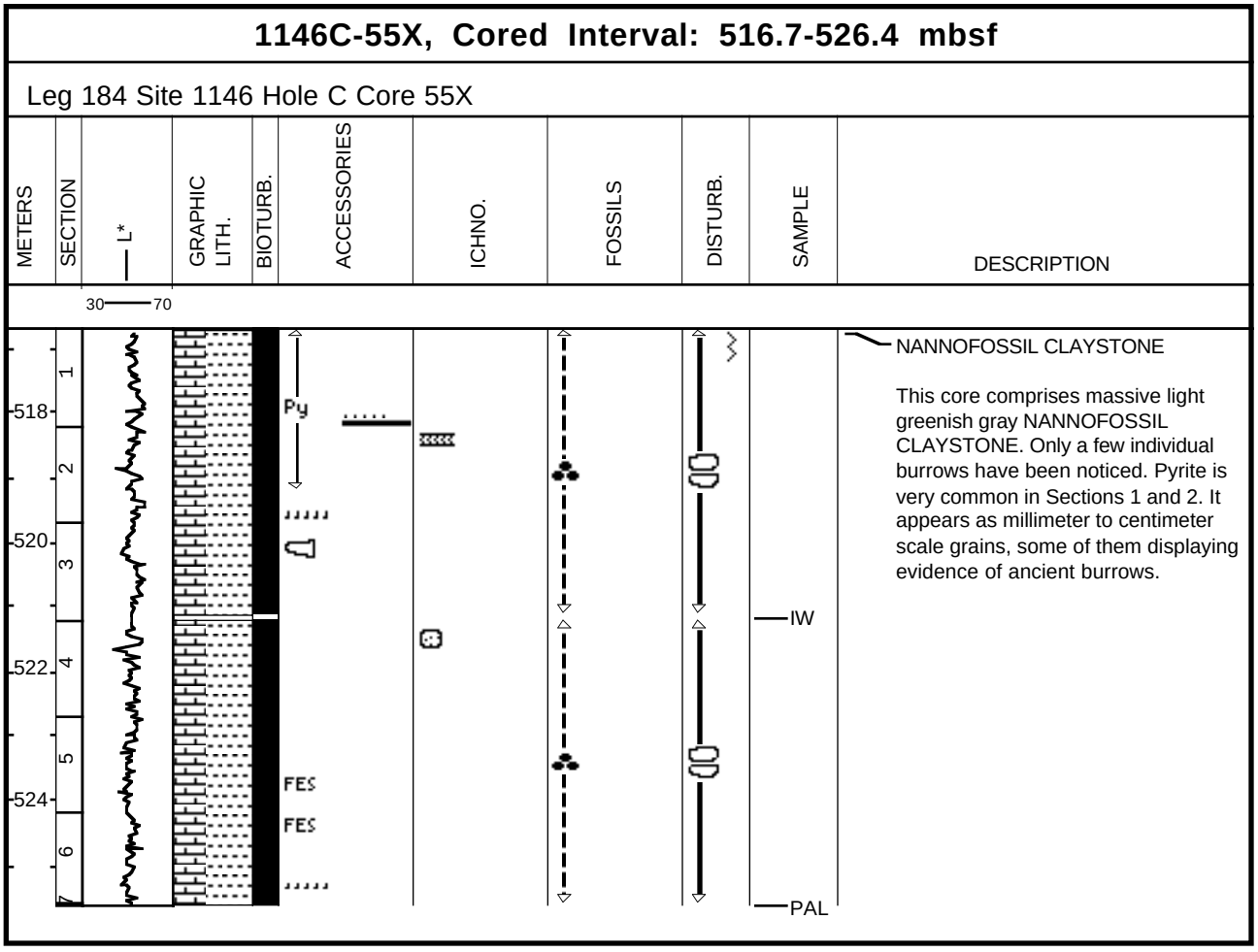
Core Photo


1146C-53X, Cored Interval: 497.5-507.1 mbsf
Leg 184 Site 1146 Hole C Core 53X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
498
500
502
504
506
1
2
3
4
5
6
7
8
Py
Py
FES
IW
PAL
NANNOFOSSIL CLAYSTONE
This core comprises massive light brownish gray NANNOFOSSIL CLAYSTONE. The core is characterized by alternating light greenish (bluish) and brownish color intervals. Greenish intervals correspond to intervals with higher carbonate content. No clear individual burrows have been noticed, except a few Zoophycos. A layer of well crystallised pyrite is observed in Section 3, 23 cm. Pyrite only occurs in the bluish intervals.

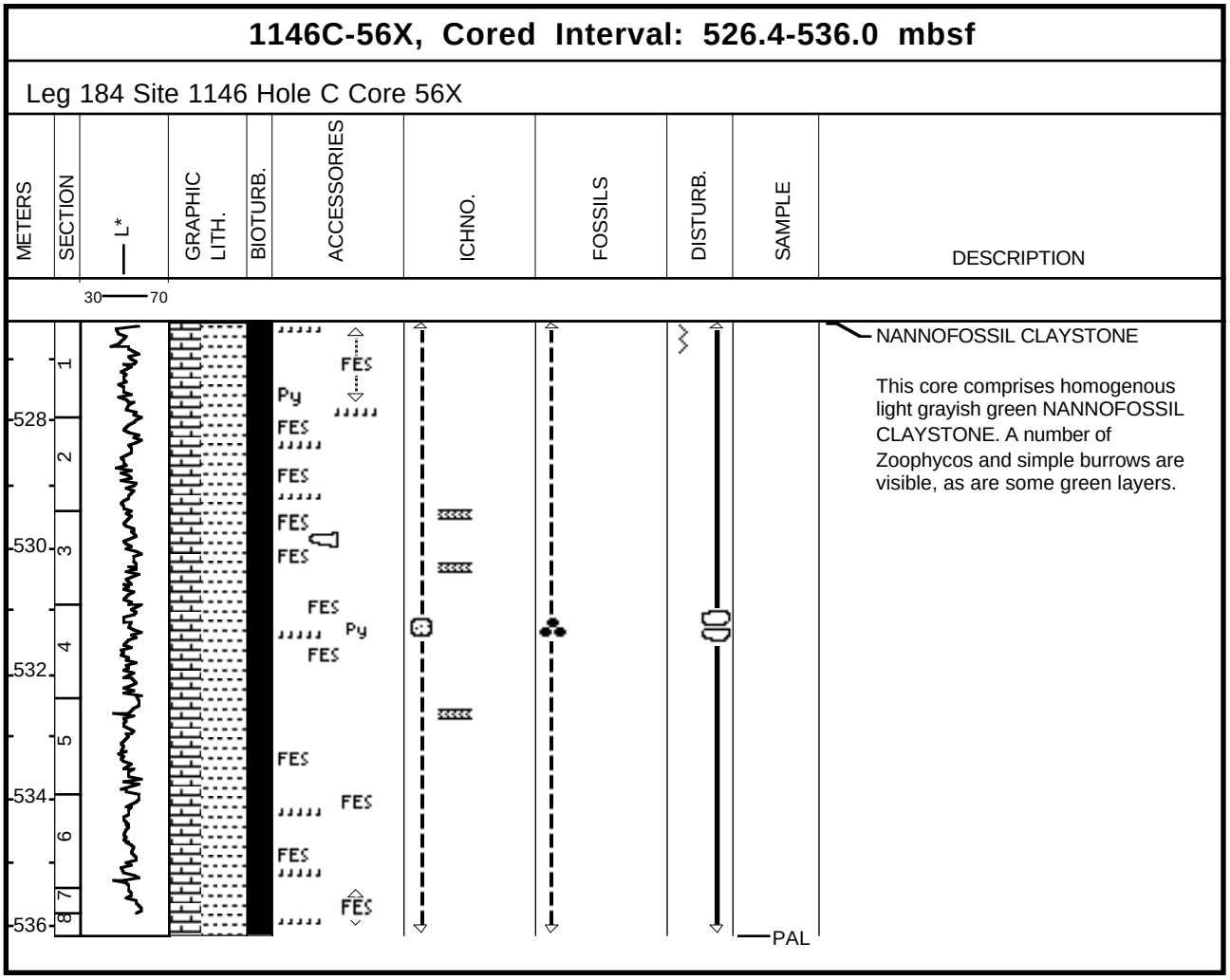
Core Photo


1146C-54X, Cored Interval: 507.1-516.7 mbsf
Leg 184 Site 1146 Hole C Core 54X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
508
510
512
514
516
1
2
3
4
5
6
7
8
Py
FES
Py
Py
PAL
NANNOFOSSIL CLAYSTONE
This core comprises massive light brownish gray NANNOFOSSIL CLAYSTONE. The core is characterized by alternating light greenish (bluish) and brownish color intervals. Greenish intervals correspond to increased carbonate content. They are more abundant downcore. Only a few individual burrows have been noticed. Pyrite seems not to be related to bioturbation but occurs in green sediment.

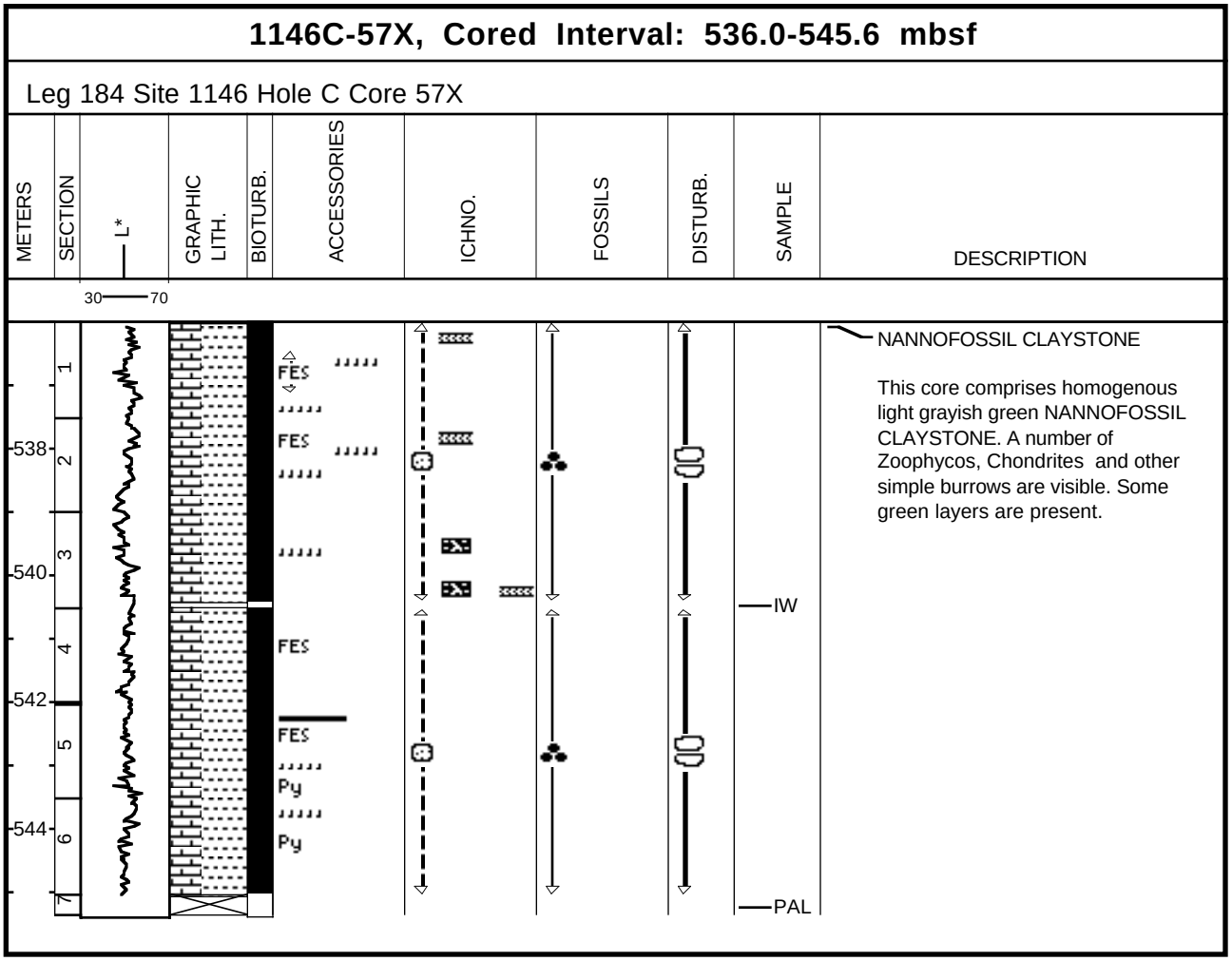
Core Photo


1146C-55X, Cored Interval: 516.7-526.4 mbsf
Leg 184 Site 1146 Hole C Core 55X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
518
520
522
524
1
2
3
4
5
6
Py
FES
FES
IW
PAL
NANNOFOSSIL CLAYSTONE
This core comprises massive light greenish gray NANNOFOSSIL CLAYSTONE. Only a few individual burrows have been noticed. Pyrite is very common in Sections 1 and 2. It appears as millimeter to centimeter scale grains, some of them displaying evidence of ancient burrows.

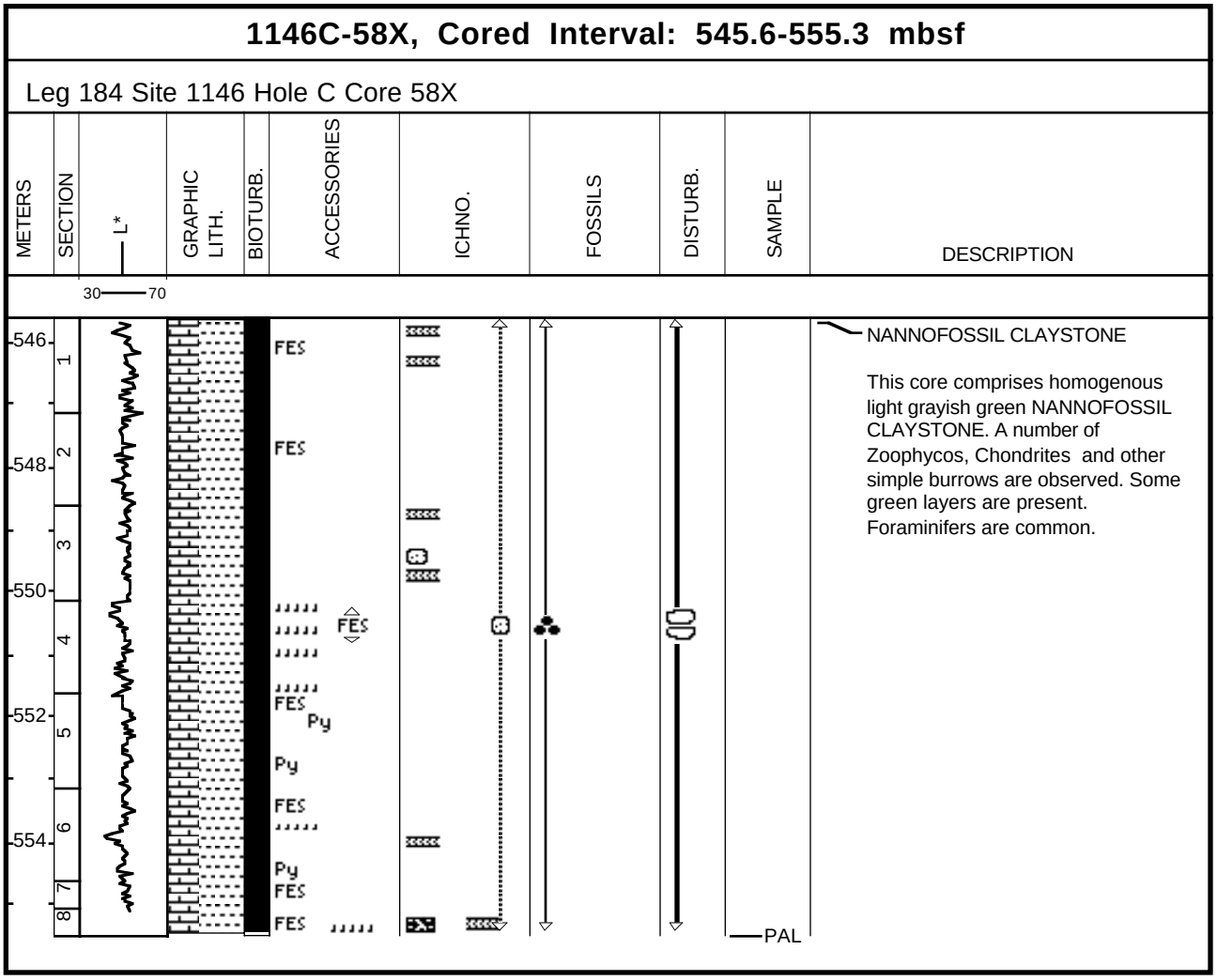
Core Photo


1146C-56X, Cored Interval: 526.4-536.0 mbsf
Leg 184 Site 1146 Hole C Core 56X
METERS
SECTION
L*
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
30
70
528
530
532
534
536
1
2
3
4
5
6
7
8
FES
Py
PAL
NANNOFOSSIL CLAYSTONE
This core comprises homogenous light grayish green NANNOFOSSIL CLAYSTONE. A number of Zoophycos and simple burrows are visible, as are some green layers.

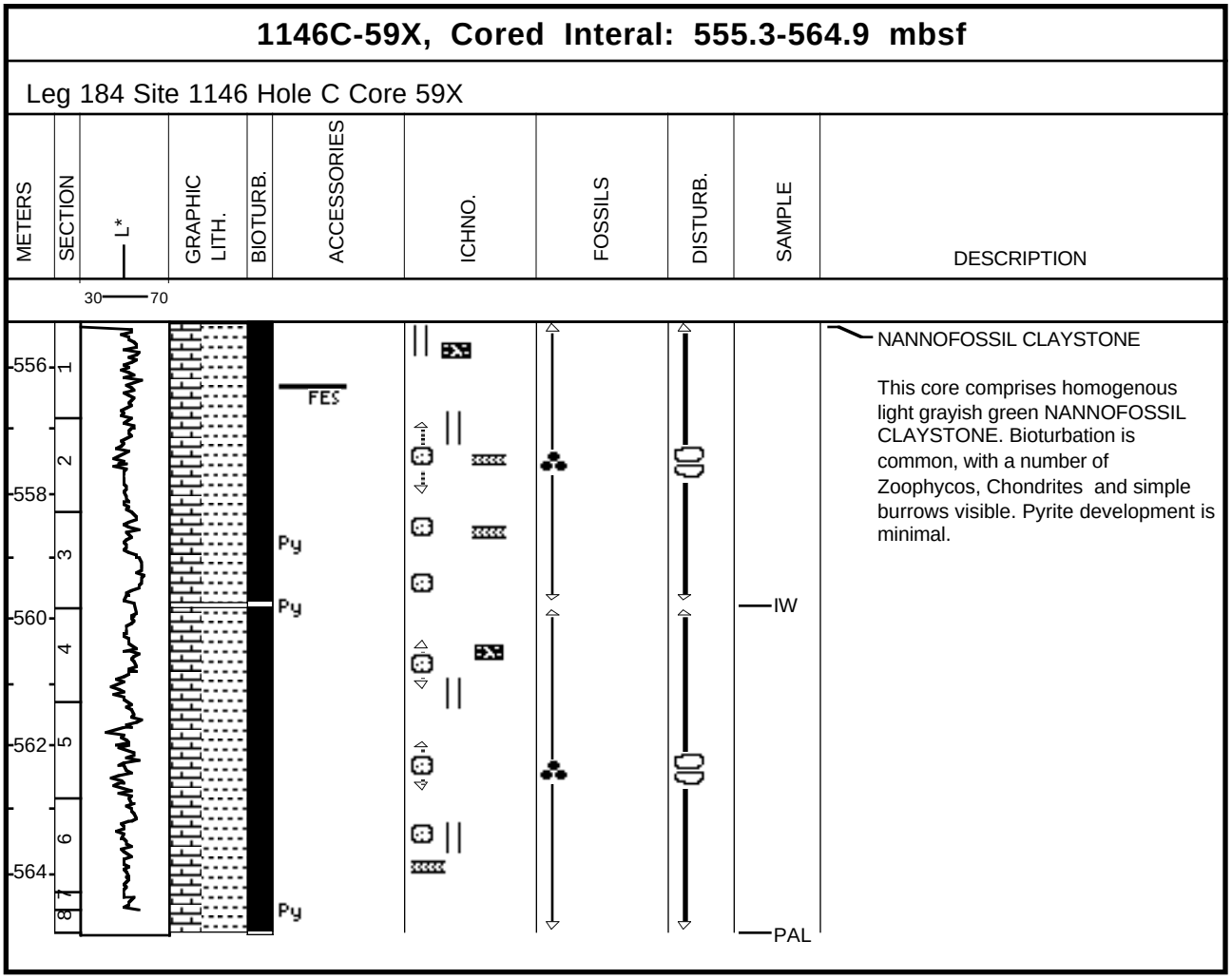
Core Photo


1146C-57X, Cored Interval: 536.0-545.6 mbsf
Leg 184 Site 1146 Hole C Core 57X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
538
540
542
544
1
2
3
4
5
6
7
FES
FES
FES
FES
Py
Py
IW
PAL
NANNOFOSSIL CLAYSTONE
This core comprises homogenous light grayish green NANNOFOSSIL CLAYSTONE. A number of Zoophycos, Chondrites and other simple burrows are visible. Some green layers are present.

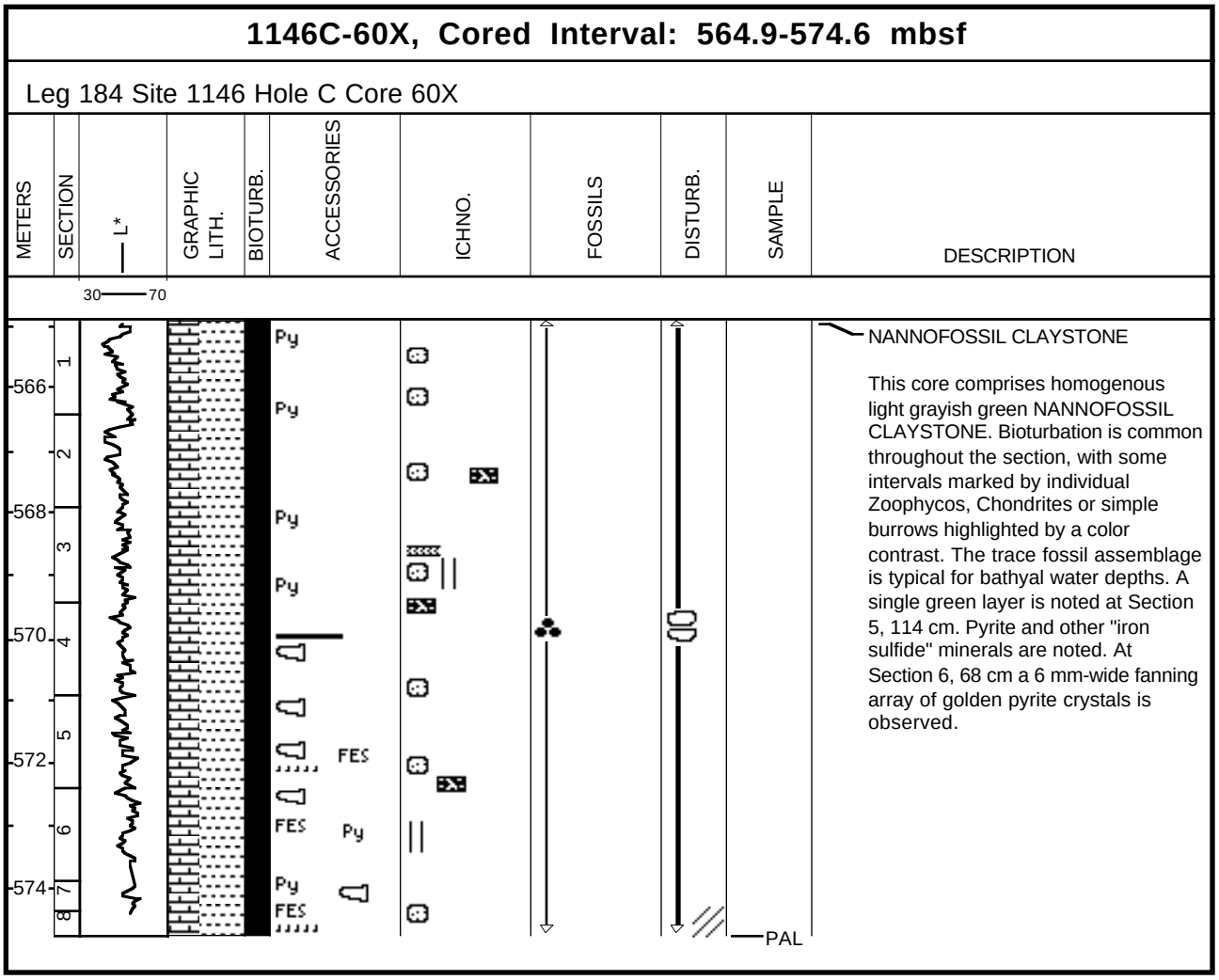
Core Photo


1146C-58X, Cored Interval: 545.6-555.3 mbsf
Leg 184 Site 1146 Hole C Core 58X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
546
548
550
552
554
1
2
3
4
5
6
7
8
FES
Py
PAL
NANNOFOSSIL CLAYSTONE
This core comprises homogenous light grayish green NANNOFOSSIL CLAYSTONE. A number of Zoophycos, Chondrites and other simple burrows are observed. Some green layers are present. Foraminifers are common.

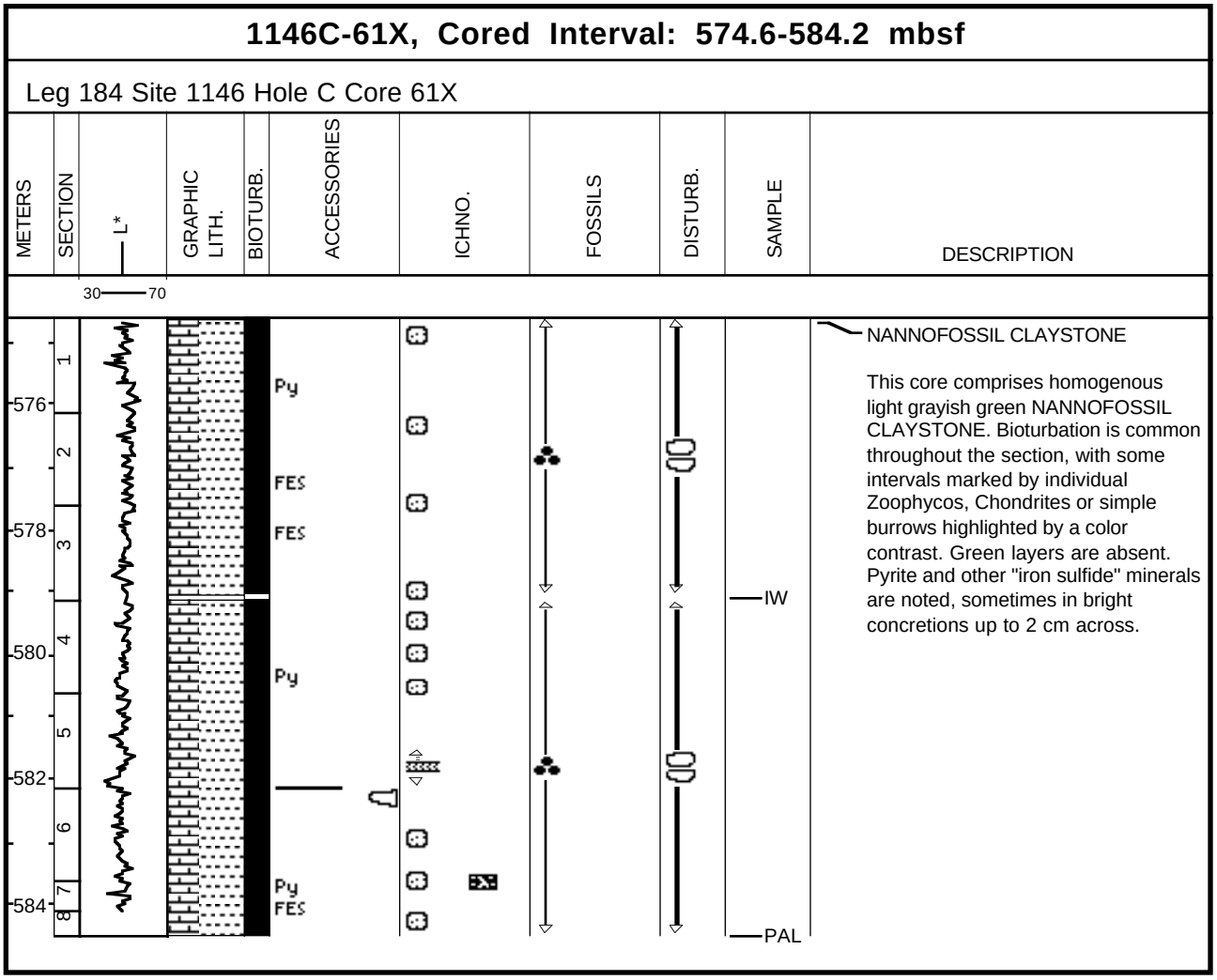
Core Photo


1146C-59X, Cored Interal: 555.3-564.9 mbsf
Leg 184 Site 1146 Hole C Core 59X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
556
558
560
562
564
1
2
3
4
5
6
7
CC
FES
Py
Py
Py
IW
PAL
NANNOFOSSIL CLAYSTONE
This core comprises homogenous light grayish green NANNOFOSSIL CLAYSTONE. Bioturbation is common, with a number of Zoophycos, Chondrites and simple burrows visible. Pyrite development is minimal.

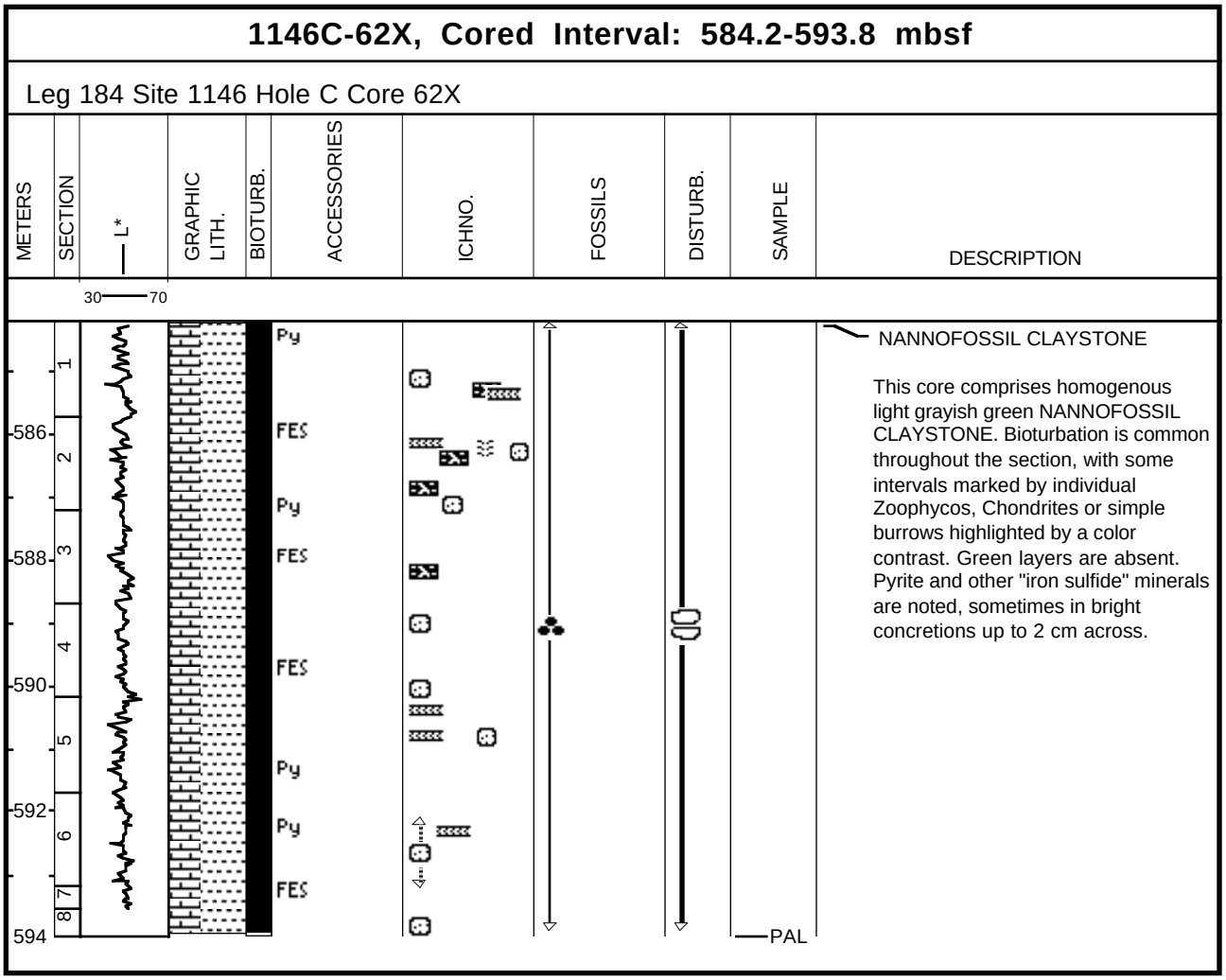
Core Photo


1146C-60X, Cored Interval: 564.9-574.6 mbsf
Leg 184 Site 1146 Hole C Core 60X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
566
568
570
572
574
1
2
3
4
5
6
7
8
Py
FES
PAL
NANNOFOSSIL CLAYSTONE
This core comprises homogenous light grayish green NANNOFOSSIL CLAYSTONE. Bioturbation is common throughout the section, with some intervals marked by individual Zoophycos, Chondrites or simple burrows highlighted by a color contrast. The trace fossil assemblage is typical for bathyal water depths. A single green layer is noted at Section 5, 114 cm. Pyrite and other "iron sulfide" minerals are noted. At Section 6, 68 cm a 6 mm-wide fanning array of golden pyrite crystals is observed.

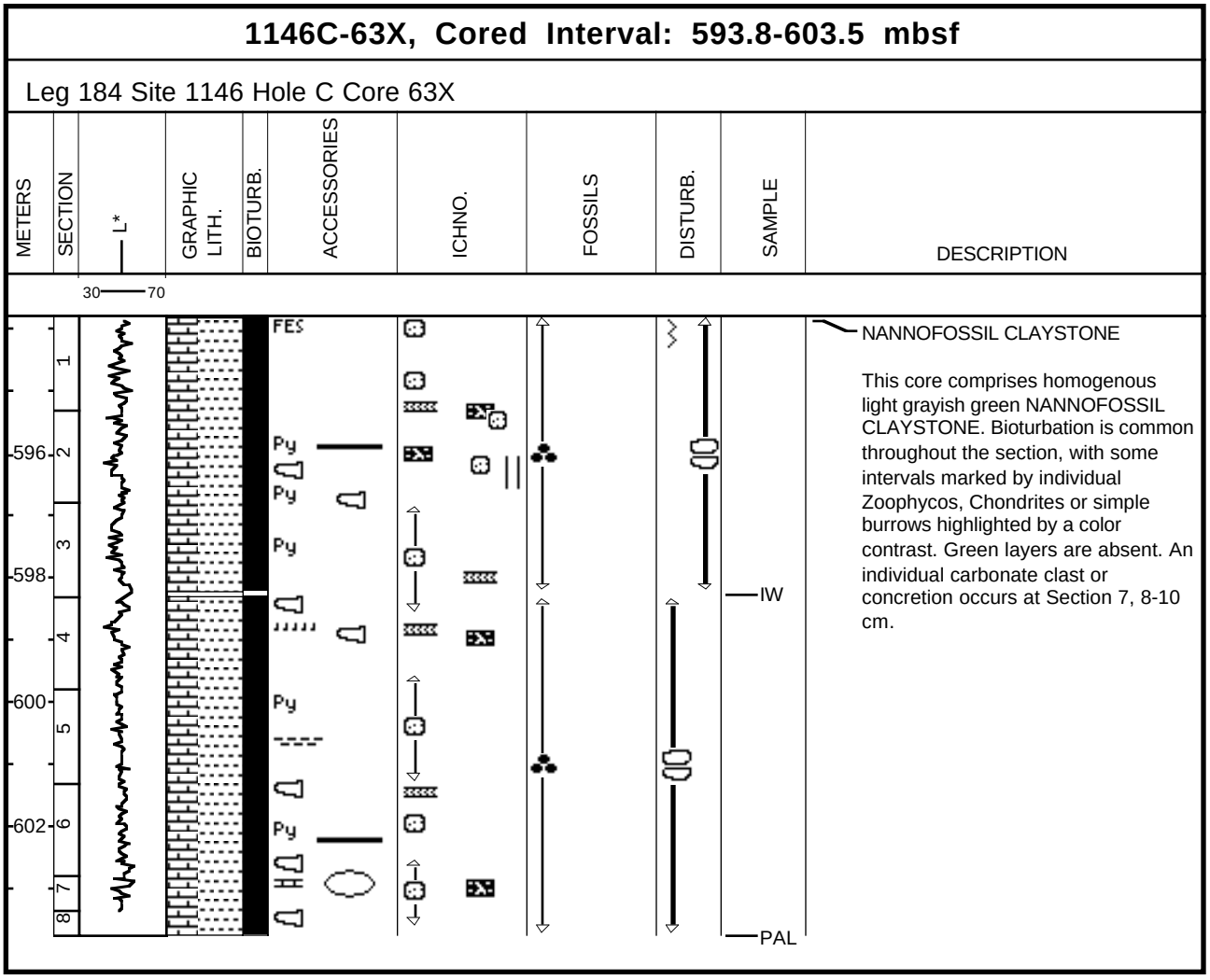
Core Photo


1146C-61X, Cored Interval: 574.6-584.2 mbsf
Leg 184 Site 1146 Hole C Core 61X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
576
578
580
582
584
1
2
3
4
5
6
7
Py
FES
FES
Py
Py
FES
IW
PAL
NANNOFOSSIL CLAYSTONE
This core comprises homogenous light grayish green NANNOFOSSIL CLAYSTONE. Bioturbation is common throughout the section, with some intervals marked by individual Zoophycos, Chondrites or simple burrows highlighted by a color contrast. Green layers are absent. Pyrite and other "iron sulfide" minerals are noted, sometimes in bright concretions up to 2 cm across.

Core Photo


1146C-62X, Cored Interval: 584.2-593.8 mbsf
Leg 184 Site 1146 Hole C Core 62X
METERS
SECTION
L*
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
30
70
586
588
590
592
594
1
2
3
4
5
6
7
8
Py
FES
Py
FES
FES
Py
Py
FES
PAL
NANNOFOSSIL CLAYSTONE
This core comprises homogenous light grayish green NANNOFOSSIL CLAYSTONE. Bioturbation is common throughout the section, with some intervals marked by individual Zoophycos, Chondrites or simple burrows highlighted by a color contrast. Green layers are absent. Pyrite and other "iron sulfide" minerals are noted, sometimes in bright concretions up to 2 cm across.

Core Photo


1146C-63X, Cored Interval: 593.8-603.5 mbsf
Leg 184 Site 1146 Hole C Core 63X
METERS
SECTION
L*
30
70
GRAPHIC LITH.
BIOTURB.
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
DESCRIPTION
596
598
600
602
1
2
3
4
5
6
7
8
FES
Py
Py
Py
Py
Py
IW
PAL
NANNOFOSSIL CLAYSTONE
This core comprises homogenous light grayish green NANNOFOSSIL CLAYSTONE. Bioturbation is common throughout the section, with some intervals marked by individual Zoophycos, Chondrites or simple burrows highlighted by a color contrast. Green layers are absent. An individual carbonate clast or concretion occurs at Section 7, 8-10 cm.

Sample						Texture			Mineral														Biogenic										Rock	
Core	Type	Section	Interval Top (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Accessory Minerals (1)	Calcite (30)	Clay (47)	Dolomite (62)	Fe Oxide (68)	Feldspar (71)	Glauconite (82)	Mica (118)	Opaques (140)	Plagioclase (159)	Pyrite (169)	Quartz (172)	Volcanic Glass (81)	Zeolite (222)	Algae (5)	Coccolith (51)	Diatoms (58)	Discoaster (61)	Fish Remains (74)	Foraminifers (78)	Nannofossils (132)	Radiolarians (173)	Silicoflagellates (189)	Sponge Spicules (199)	Organic Debris	Comments
184-1146A-																																	
1	H	1	3	0.03	D	1	5	94			44		5				1										5	5	30	10				Nannofossil Clay
1	H	1	71	0.71	D	1	4	95		1	40									1								5	53					Clayey nannofossil ooze
1	H	2	25	1.75	D	10	10	80			70				1										3			3	20	1		2		Clay with nannofossils
2	H	3	80	7.70	D		7	93			45					2	2			5					5				30	5		6		Nannofossil Clay
2	H	5	8	9.98	M	5	10	85			28						3			1					5				43	5		15		Clayey Nannofossil Ooze with Spicules
3	H	3	10	16.50	D	1	14	85	1		71								1	6					2			1	15			3		Clay with Nannofossils
3	H	7	50	22.90	D		25	75		5	36			1					1	3					3			15	30	4		2		Clay Nannofossil Mixed Sed with Foraminifers
4	H	2	26	24.66	D		16	84		2	74					1				3					5			1	10	1		3		Clay with Nannofossils
5	H	2	106	34.96	D		5	95			58								3	1					2			4	28	1		3		Nannofossils clay
5	H	5	82	39.22	D		15	85		3	50								1	1								10	30	3		2		Nannofossil clay with foraminifers
6	H	1	79	42.69	M	5	94	1	5					5						10	79								1					Volcanic glass
6	H	4	75	47.15	D		5	95	1	2	40					1			2	1					5			7	30	4	1	6		Nannofossil clay
7	H	1	100	52.40	D	1	12	87		2	62								1	3					2			1	25	1		3		Nannofossil clay
7	H	4	40	56.30	D	1	15	84		3	44					1				1					3			5	40	1		2		Clay Nannofossil ooze mixed sediment
7	H	6	92	59.82	M	40	60		3					15							82													Volcanic glass
8	H	2	50	62.90	D	1	10	89		3	59								2	1					2			1	30	1		1		Nannofossil Clay
8	H	4	72	66.12	D	2	20	78		10	43		1							1					1			8	35	1				Nannofossil Clay
9	H	3	30	73.70	D	1	23	76		3	41								1	3			1		5			2	35	2		7		Nannofossil Clay
10	H	2	70	82.10	D		5	95	1		68									1								3	25		1	1		Nannofossil Clay
10	H	5	100	86.90	D	10	5	85	1	4	44																	10	40			1		Nannofossil Clay with foraminifers
11	H	2	30	91.20	D		29	71		2	37		1						1	6			1		6			1	35			10		Nannofossil with Spicules
11	H	3	49	92.89	M		28	72	2		62					1			10	10								2	10			3		Clay with Quartz Nannos and Pyrite
12	H	3	80	102.70	D	0	20	80			50		3	2						3					2			1	35	2		2		Nannofossil Clay
12	H	6	65	107.05	M	0	60	40						1		1	3			91					1			1		1		1		Quartz Silt
13	H	3	80	112.20	D	0	20	80		3	50			1		1	1			2					2			1	35	2		2		Nannofossil Clay
13	H	4	16	113.08	M	5	15	80		10	35		10			2	1			10									30			2		Nannofossil Clay with Fe-oxides
14	H	3	80	121.70	D	0	10	90			50		2			1	1			5					2			2	35			2		Nannofossil Clay
15	H	3	80	131.20	D	0	10	90		2	50		1			1	1			2								2	40			1		Nannofossil Clay
16	H	3	80	140.70	D	0	10	90		2	50		1			1	1			2					1			1	40			1		Nannofossil Clay
17	H	3	80	150.20	D	10	20	70		8	45		2			1	1			5								2	35			1		Nannofossil Clay
18	H	3	80	159.70	D	0	15	85		3	50		1			1				1								3	40			1		Nannofossil Clay
19	H	3	80	169.20	D	0	5	95		2	55		1			1				2								2	35			2		Nannofossil Clay
19	H	5	13	171.53	D	0	100	0		2								2		6	90													Volcanic Ash
20	H	5	70	181.12	D		5	95	1	3	55					1			2	1					2			3	30			2		Nannofossil Clay
21	H	1	80	185.20	D		10	90		5	53					1			2	2					1		1	5	30					Nannofossil Clay
21	H	5	76	191.16	D		5	95		2	67					1			1	2								1	25			1		Nannofossil Clay
22	X	1	80	194.70	D	0	5	95		3	75																	5	15			2		Clay with nannofossils
22	X	5	23	200.13	D	10	10	80		20	47									1								10	20			2		Clay with nannofossils
23	X	1	80	203.80	D	1	13	86	1	2	56		1			1			1	5			1		1			1	30					Nannofossil Clay
24	X	1	40	213.10	D		13	87		2	55		1			1				5			1		1			2	32					Nannofossil Clay
24	X	4	48	217.68	D	3	28	69		5	34		1						3	1			1					20	35					Clay Nannos with Foraminifer

Sample						Texture			Mineral														Biogenic										Rock	
Core	Type	Section	Interval Top (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Accessory Minerals (1)	Calcite (30)	Clay (47)	Dolomite (62)	Fe Oxide (68)	Feldspar (71)	Glauconite (82)	Mica (118)	Opaques (140)	Plagioclase (159)	Pyrite (169)	Quartz (172)	Volcanic Glass (81)	Zeolite (222)	Algae (5)	Coccolith (51)	Diatoms (58)	Discoaster (61)	Fish Remains (74)	Foraminifers (78)	Nannofossils (132)	Radiolarians (173)	Silicoflagellates (189)	Sponge Spicules (199)	Organic Debris	Comments
26	X	1	48	232.58	D	30	20	50			24		1						1						1			38	35					Nannofossils and Forams Ooze with Clay
26	X	3	60	235.70	M		2	98	2	3	65								1	1	3								25					Nannofossil Clay
26	X	CC	31	241.88	M		50	50	5		45			10						20		20												Volcanic Ash Altered
27	X	1	36	242.06	D	25	15	60		1	28		1												2			30	38					Foram and Nanno Ooze with Clay
27	X	5	90	248.60	M	1	15	84		2	57									3					1			2	35					Nannofossil Clay
28	X	1	36	251.66	D	25	20	55		1	24								1						1			38	35					Nannofossil and Foraminifer Ooze with Clay
29	X	2	50	262.90	D	20	25	55		3	25					1			1	2								30	38					Clayey Nannofossil Ooze with Forams
29	X	4	70	266.10	D	10	20	70		3	29								1						2			20	45					F oram/Nanno/Clay Mixed Sed
30	X	3	80	274.40	D	15	25	60		5	35					2	2			1								10	45					Clayey nannofossil ooze with foraminifers
31	X	3	60	283.80	M	5	20	75			50									10				30		5		5						clayey nannofossil ooze
31	X	3	80	284.00	D	5	5	90			39									1				40		20								clayey nannofossil ooze
32	X	3	80	293.60	D	5	10	85			35													35		20		10						clayey nannofossil ooze
32	X	4	89	295.19	M	0	15	85			15													40		40		5						nannofossil ooze with clay
33	X	3	80	303.30	D	5	15	80			45													30		20		5						clayey nannofossil ooze
33	X	6	98	307.98	M	0	20	80			30	1					3			1	10			30		20		5						clayey nannofossil ooze
33	X	6	115	308.15	M	10	20	70			20															10		10	60					nannofossil ooze
33	X	6	141	308.41	D	10	15	75			39						1									10		10	40					clayey nannofossil ooze
34	X	3	80	312.90	D	5	15	80			35						1							40		20		4						clayey nannofossil ooze
34	X	5	112	316.22	M	5	20	75		5	50									5				30		10								nannofossil clay
35	X	3	80	322.50	D	0	20	80		3	40									2				40		10		5						clayey nannofossil ooze
35	X	5	110	325.80	M	15	20	65		5	35				1	2	2			10	5			25		10		5						nannofossil clay
36	X	3	80	332.20	D	5	15	80		5	40													40		10		5						Clayey nannofossil
36	X	5	142	335.82	D	80	20	0																				85	15					foraminifer ooze
36	X	6	80	336.70	M		10	90			20										5							10	65					nannofossil ooze with clay
37	X	3	80	341.90	D	5	15	80			35													40		20		5						clayey nannofossil ooze
38	X	5	80	354.50	D	5	15	80			40													35		15		10						
40	X	2	50	368.90	D	5	9	86		3	20								1	1		1						8	66					Nannofossil chalk with Clay
41	X	2	80	378.80	D	5	20	75	3	5	27								3	3								23	35		1			Nannofossil foraminifers clay mixed sediment
41	X	5	95	383.45	D		10	90	2		12								2	1								7	75			1		Nannofossil ooze with clay
42	X	4	78	391.38	D	26	30	44			26					1		2		1								35	35					Foram Nannofossil Mixed Sediment with Clay
42	X	5	110	393.20	D	3	50	47		2	11									5				1	1			10	70					Nannofossil Ooze with forams and clay
43	X	1	60	396.30	D	2	50	48		2	24		1			1				1					1			30	40					Nannos and Forams Ooze with Clay
43	X	4	118	401.38	D		20	80	1	1	38		2			1				6								1	50					Nannos and Clay Mixed Sediment
44	X	2	80	407.60	D		10	90	1	3	17					1			2	2								10	64					Nanno Clay with Forams
44	X	5	25	411.55	D	5	30	65		8	22		1			1			2	1								25	40					Nannos with Forams and Clay
45	X	1	118	416.08	D	5	20	75	2	5	21									1								25	46					Nannofossil foraminifer clay
46	X	1	32	424.82	D		40	60		7	17					1			2	2								1	70					Nanno Chalk with Clay
46	X	1	55	425.05	D	1	30	69		5	20								3	5			2		2			8	55					Nanno Chalk with Clay
46	X	3	65	428.15	D	20	30	50		3	22		2						1	2					3			35	32					Foram and Nanno Chalk with Clay

Sample						Texture			Mineral														Biogenic										Rock	
Core	Type	Section	Interval Top (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Accessory Minerals (1)	Calcite (30)	Clay (47)	Dolomite (62)	Fe Oxide (68)	Feldspar (71)	Glauconite (82)	Mica (118)	Opaques (140)	Plagioclase (159)	Pyrite (169)	Quartz (172)	Volcanic Glass (81)	Zeolite (222)	Algae (5)	Coccolith (51)	Diatoms (58)	Discoaster (61)	Fish Remains (74)	Foraminifers (78)	Nannofossils (132)	Radiolarians (173)	Silicoflagellates (189)	Sponge Spicules (199)	Organic Debris	Comments
47	X	3	30	437.40	D	1	8	91	1	3	25					1			2	1								3	64					Clayey Nannofossil Chalk
48	X	3	30	447.00	D		17	83		1	25					1			1	2								12	58					Clayey Nannofossil Chalk with Foraminifers
49	X	2	60	455.50	D		10	90		3	20					1				2								4	70					Nannofossil chalk with clay
49	X	5	50	459.90	D	3	14	83			28								2	2		1			1			10	55				1	Clayey Nannofossil Chalk with Foraminifers
50	X	3	45	466.45	D		9	91			20								2	2		1						3	71			1		Nannofossil chalk with Clay
51	X	3	80	476.20	D	5	15	80			20		1				1			10	3							5	60					Clayey nannofossil chalk
52	X	3	80	485.80	D	0	5	95			15									2	1							2	80					Nannofossil chalk with clay
52	X	6	80	490.30	D	5	15	80			30		1				1			5								3	60					Clayey nannofossil chalk
53	X	3	110	495.70	D	2	18	80			30						2			4								4	60					clayey nannofossil chalk
53	X	5	65	498.25	D	0	5	95			25		1				1			3									70					clayey nannofossil chalk
54	X	3	80	505.00	D	1	14	85			20		1						1	2	1							5	70					clayey nannofossil chalk
54	X	5	25	507.45	M	15	10	75																				40	60					foram-nannofossil chalk
55	X	3	80	514.60	D	1	20	79			20		1							15	1							3	60					Clayey nannofossil chalk
56	X	3	80	524.20	D	10	15	75			30		1				2			7								15	45					Clayey nannofossil ooze with foraminifera
57	X	3	39	533.29	M	15	20	65		10	30						3			7								10	40					Clayey nannofossil ooze
57	X	3	80	533.70	D	5	10	85			30		1				1			10								8	50					Clayey nannofossil chalk
58	X	3	80	543.20	D	1	14	85			38		2							5								5	50					Clayey nannofossil ooze
59	X	2	50	551.10	D		5	95	1		10								2									7	80					Nannofossil chalk with clay
60	X	2	75	560.96	D		10	90	3		16								2	1								13	65					Nannofossil chalk with clay and foraminifers
61	X	2	48	570.28	D	1	20	79		3	40									5			2					5	45					Nannofossils and Clay mixed Sed
62	X	2	82	580.32	D		20	80		2	43					2				6			1		1			5	40					Clay and Nannos Mixed Sed
63	X	3	70	591.30	D		25	75		2	52					1				10			1					4	30					Nanno Clay with Quartz
64	X	2	66	599.36	D		22	78		5	38						2			3								7	45					Nannos and Clay Mixed Sediment
64	X	6	23	604.93	M		90	10		100																								Calcite Concretion
184-1146B-																																		
1	H	1	1	0.01	D		28	72		2	60		5							5			1		2			2	12	3		8		Clay with Nannofossils
1	H	2	30	1.80	D		26	74	1	1	54		5							5								7	20	2		5		Clay with Nannofossils
2	H	2	27	9.07	D		20	80	1	4	40									5	10				5			3	20	2	2	8		Clay with nannofossils and volcanic ash
3	H	4	120	22.50	D	5	5	90		5	45														5			5	35			5		Nannofossil Clay
4	H	3	70	30.00	D		25	75		3	49			1		1			2	5					2		1	5	25	1		5		Nannofossil Clay
5	H	3	80	39.60	D	5	15	80		4	50		2							5					2			5	25	2		5		Nannofossil Clay
5	H	5	30	42.10	D	5	20	75		2	50		1				1			5	5							5	30			1		nannofossil clay
6	H	3	80	49.10	D	0	10	90		2	50		1				2			5					2			3	30			5		nannofossil clay
7	H	3	80	58.60	D	5	15	80			50		1				1			10					1			5	25	5		2		Nannofossil clay
8	H	3	80	68.10	D	15	25	60			43		1				1			10					5				25	5		10		nannofossil clay
9	H	3	80	77.60	D	1	10	89		2	60		1				1			8	1								25			2		nannofossil clay
10	H	3	80	87.10	D	10	20	70			55		2				1			10	2							5	25					nannofossil clay
11	H	3	80	96.60	D	10	10	80			60						1			10	2							5	20			2		nannofossil clay
12	H	3	80	106.10	D	2	5	93			60		2				1			10								2	25					Nannofossil clay
12	H	5	69	108.99	M	0	80	20			10								50		23	2							15					funky ash
12	H	6	133	111.13	M	100															100													White ash
13	H	3	80	115.60	D	1	10	89		2	70		1				1			5								1	20					nannofossil clay
14	H	3	80	125.10	D	0	10	90		2	70		1							7									20					nannofossil clay

Sample						Texture			Mineral														Biogenic										Rock	
Core	Type	Section	Interval Top (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Accessory Minerals (1)	Calcite (30)	Clay (47)	Dolomite (62)	Fe Oxide (68)	Feldspar (71)	Glauconite (82)	Mica (118)	Opaques (140)	Plagioclase (159)	Pyrite (169)	Quartz (172)	Volcanic Glass (81)	Zeolite (222)	Algae (5)	Coccolith (51)	Diatoms (58)	Discoaster (61)	Fish Remains (74)	Foraminifers (78)	Nannofossils (132)	Radiolarians (173)	Silicoflagellates (189)	Sponge Spicules (199)	Organic Debris	Comments
15	H	3	30	134.10	D	1	15	84		2	75						1			2									20					nannofossil clay
16	H	3	80	144.10	D	5	15	80		1	60		1				1			10	1	1							25					Nannofossils Clay with Quartz
17	H	3	75	153.55	D	1	22	77	1	4	64		1							10			2		1			2	15					Clay with Nannos and Quartz
17	H	4	75	155.05	D	3	7	90	1	2	50						1		1	3							2	10	30					Nannofossil clay with foraminifers
18	H	5	20	165.50	D	1	24	75		2	50		1			1				10			2		2			6	25			1		Nannofossil Clay with Quartz
19	H	1	60	169.40	D		17	83		2	53		1			2				7			1		1			1	30			2		Nannofossil Clay
19	H	2	60	170.90	M		100							10					40		50													Volcanic Ash and Pyrite Mixed Sediment
20	H	2	36	180.16	D		18	82		3	47		1			1	1			6			2					2	35			2		Nannofossil Clay
20	H	6	104	186.84	M		30	70	1	4	65		3			3			1	15					1			2	5					Clay with Quartz
21	H	3	40	189.85	D		17	83		1	53		2			2				5			1		1			5	30					Nannofossil Clay
22	H	2	76	199.56	D		16	84	1	1	51		1			1	1			3			1		1			6	32			1		Nannofossil Clay
23	H	1	48	207.28	D		16	84	1	2	44		1			2	1			3			1		1			3	40			1		Nannofossils and Clay Mixed Sediment
24	X	1	48	216.78	D	7	18	75		2	40		1			1	1			2			1		2			15	35					Nannofossil Clay with Forams
25	X	1	127	227.17	M		12	88		2	56		12	1						2	1						2	4	20					Clay with Nannofossils and Fe Oxides
25	X	2	70	228.10	D	10	21	69		3	29		1			1	1			2			1		2			20	40					Clayey Nannofossil Ooze with Forams
25	X	5	120	233.10	M	7	32	61		2	26		1			1			5	8			2					20	35					Clayey Nannofossil Ooze with Forams
26	X	3	100	239.50	D		20	80		3	34		1			1	1		1	1			1		2			10	45					Clay Nannofossil Ooze with Forams
26	X	4	98	240.98	M	20	80							10					50		40								25					Pyrite and Volcanic Ash Mixed Sediment
184-1146C-																																		
2	H	2	78	12.78	M	25	20	55			50														5				25	5		15		nannofossil clay with spicules
2	H	3	80	14.30	D	20	20	60		2	50						1			10					2			7	25	2		2		nannofossil clay
3	H	3	80	23.80	D	10	20	70		2	55		1				1			10								6	50					nannofossil clay
6	H	6	39	56.39	M	20	5	75		3	20										1							25	50					foraminifer nannofossil ooze
6	H	6	76	56.76	M	0	10	90			40						3								1			5	45	2		2		
9	H	2	65	79.15	M	5	20	75		3	20			2			2			2	5				5				27	5		10		clayey nannofossil ooze
9	H	4	101	82.51	M	20	60	20		2										2	60					2		5	60					nannofossil ash
25	X	3	80	237.50	D	10	10	80		5	25																	10	5					clayey nannofossil chalk
25	X	4	6	238.26	M	5	15	80	10	5	45									10	25								30					Ash clay
29	X	2	144	275.04	M	5	60	35			20										20							30						Clayey nanno. and foram. Ooze + Volc. ac