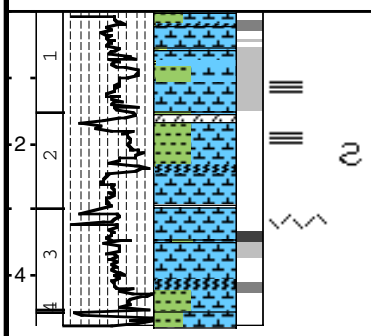
Core Photo

Site 1207 Hole A Core 1H Cored 0.0-4.8 mbsf

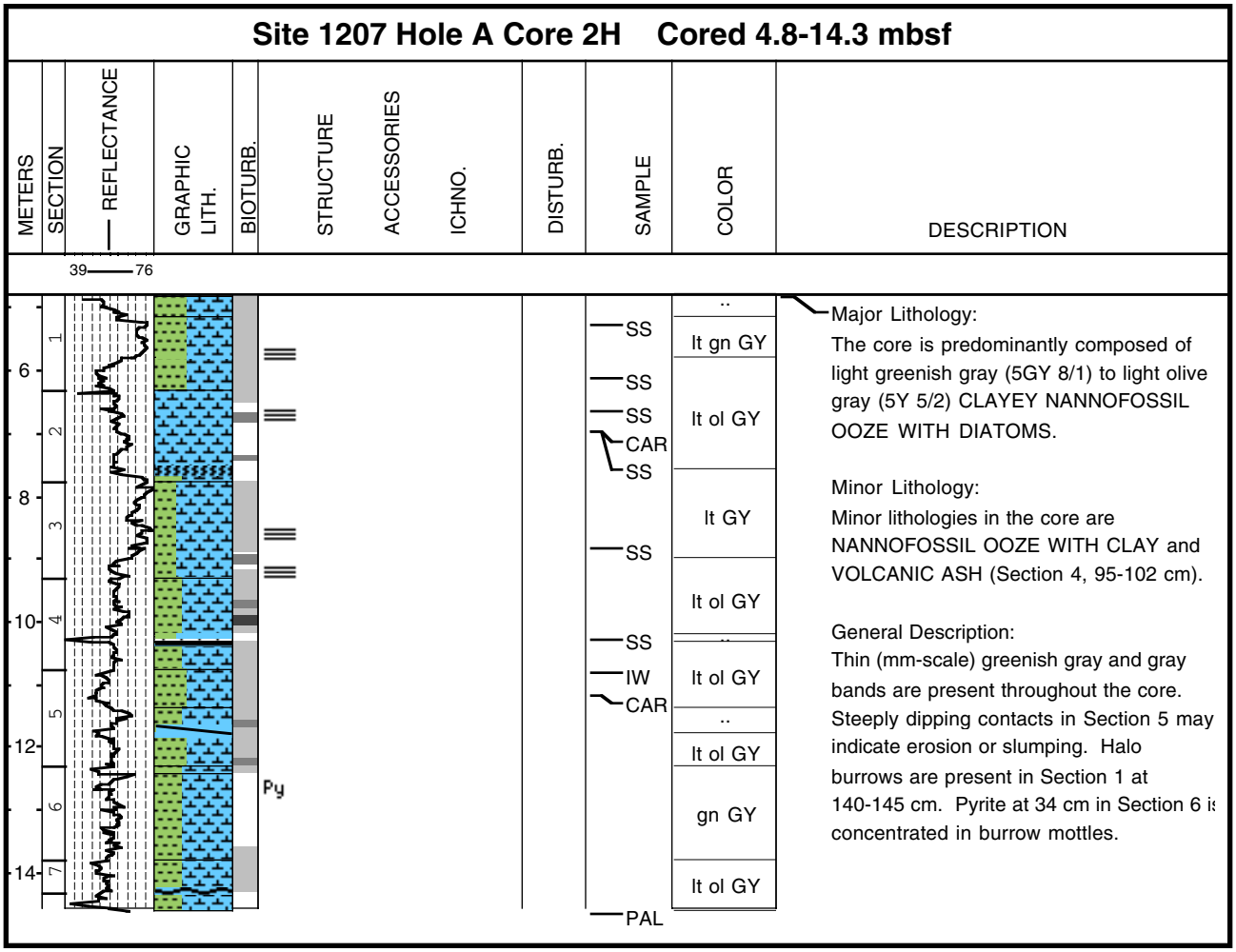


Major Lithology:
The major lithologies in this core are yellowish gray (10YR 6/2) CLAYEY NANNOFOSSIL OOZE and light olive gray (5G 8/1) NANNOFOSSIL OOZE WITH FORAMINIFERS AND DIATOMS.

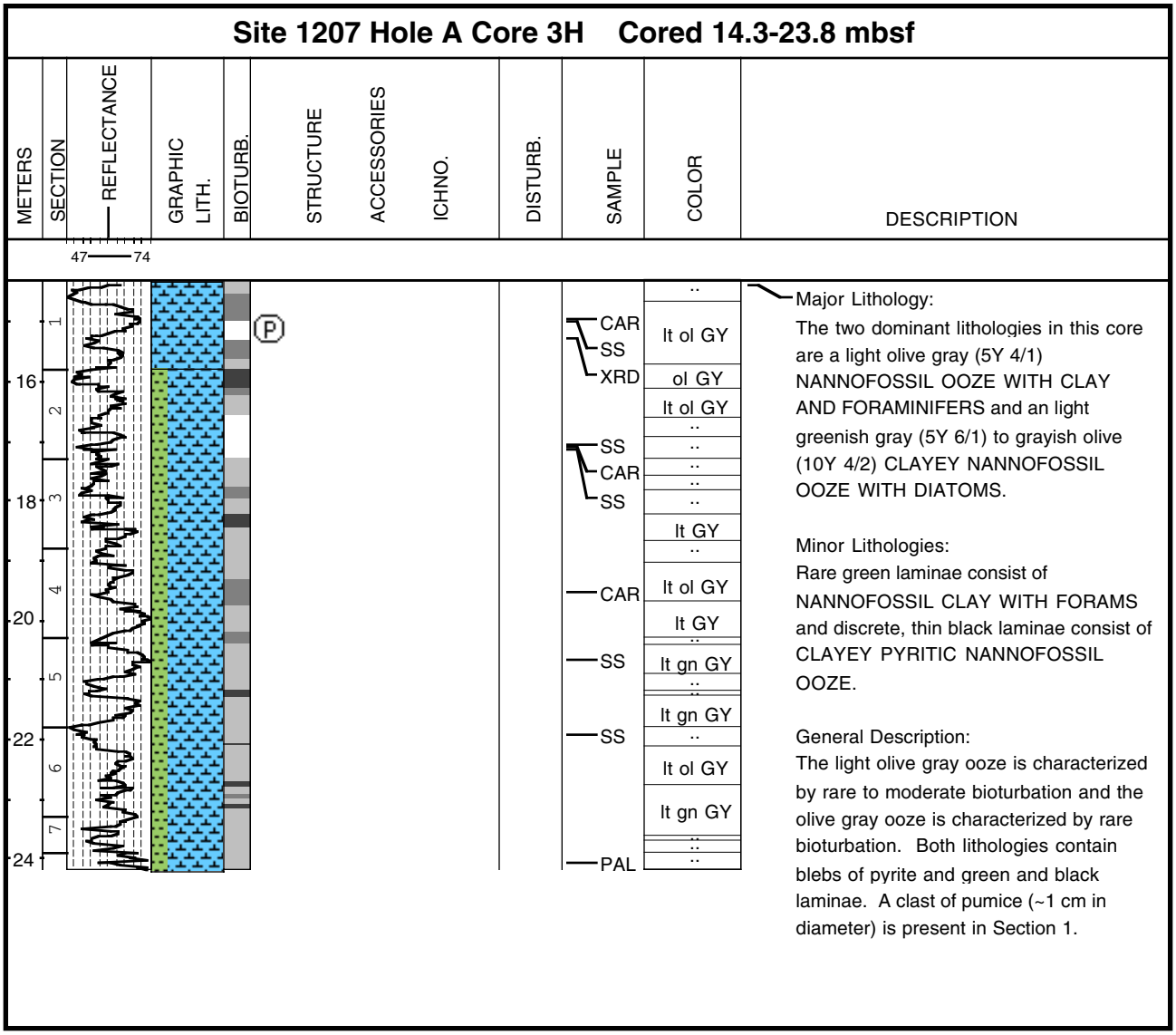
Minor Lithology:
There are three minor litholigies in this core: light olive gray NANNOFOSSIL OOZE WITH FOAMINIFERS AND CLAY, pale olive NANNOFOSSIL OOZE WITH DIATOMS AND CLAY and moderate yellowish brown (10YR 5/4) CLAYEY NANNOFOSSIL OOZE WITH DIATOMS. An 8 cm ash layer is present in Section 2 (10-19 cm).

General Description:
Contacts between different lithologies are gradational, bioturbated or irregular. The CLAYEY NANNOFOSSIL OOZE exhibits thin (mm) distinct greenish gray laminae. Bioturbation is rare to moderate. At 66-86 cm in Section 2 exhibits slumped bedding (light brownish gray in color). Some shell fragments are present throughout the core. In Section 3, at 19-20 cm there is a possible ash layer.

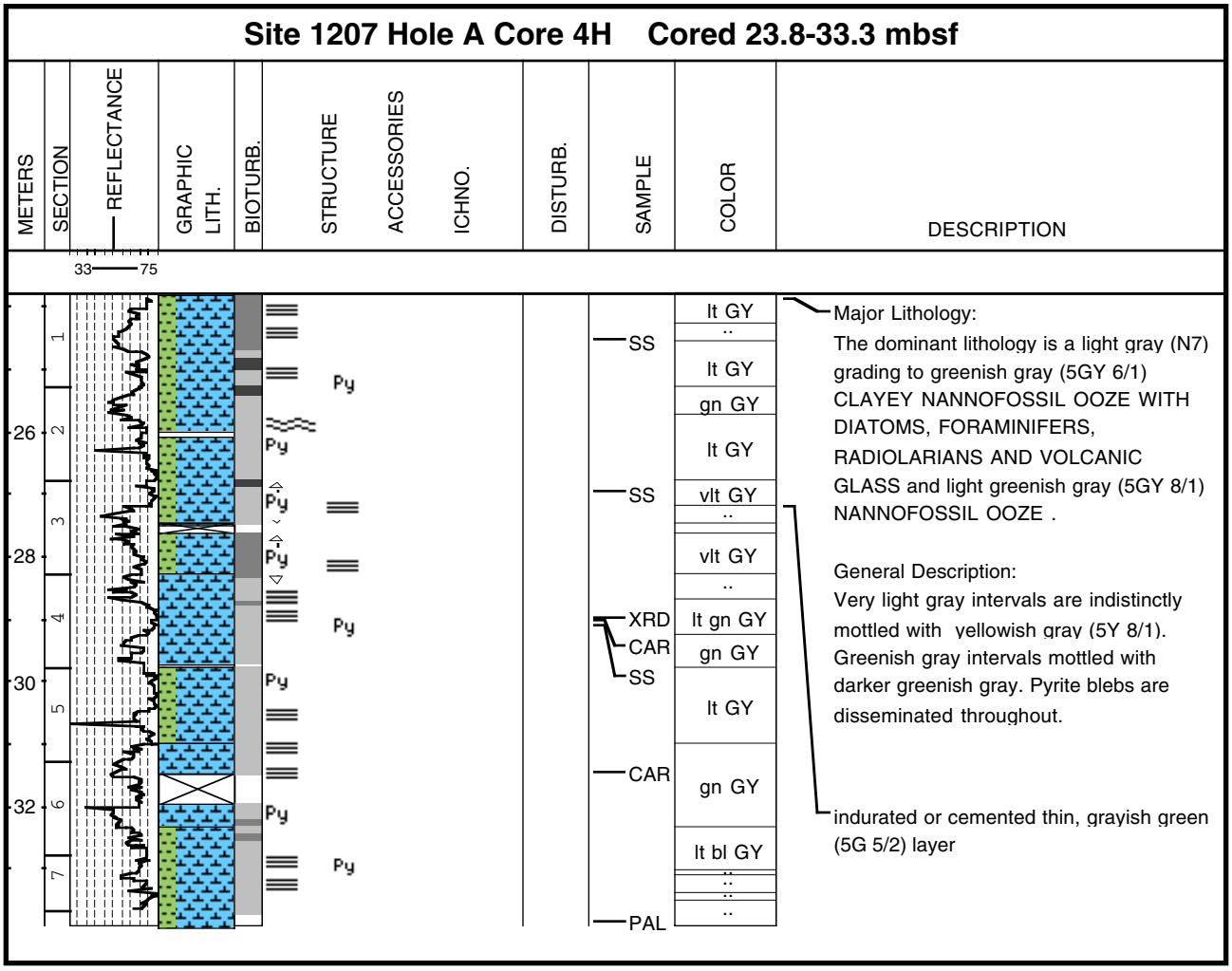
Core Photo


Site 1207 Hole A Core 2H Cored 4.8-14.3 mbsf
METERS
SECTION
REFLECTANCE
39
76
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
6
8
10
12
14
1
2
3
4
5
6
7
Py
SS
SS
SS
CAR
SS
SS
SS
IW
CAR
PAL
lt gn GY
lt ol GY
lt GY
lt ol GY
lt ol GY
lt ol GY
gn GY
lt ol GY
Major Lithology:
The core is predominantly composed of light greenish gray (5GY 8/1) to light olive gray (5Y 5/2) CLAYEY NANNOFOSSIL OOZE WITH DIATOMS.
Minor Lithology:
Minor lithologies in the core are NANNOFOSSIL OOZE WITH CLAY and VOLCANIC ASH (Section 4, 95-102 cm).
General Description:
Thin (mm-scale) greenish gray and gray bands are present throughout the core. Steeply dipping contacts in Section 5 may indicate erosion or slumping. Halo burrows are present in Section 1 at 140-145 cm. Pyrite at 34 cm in Section 6 is concentrated in burrow mottles.

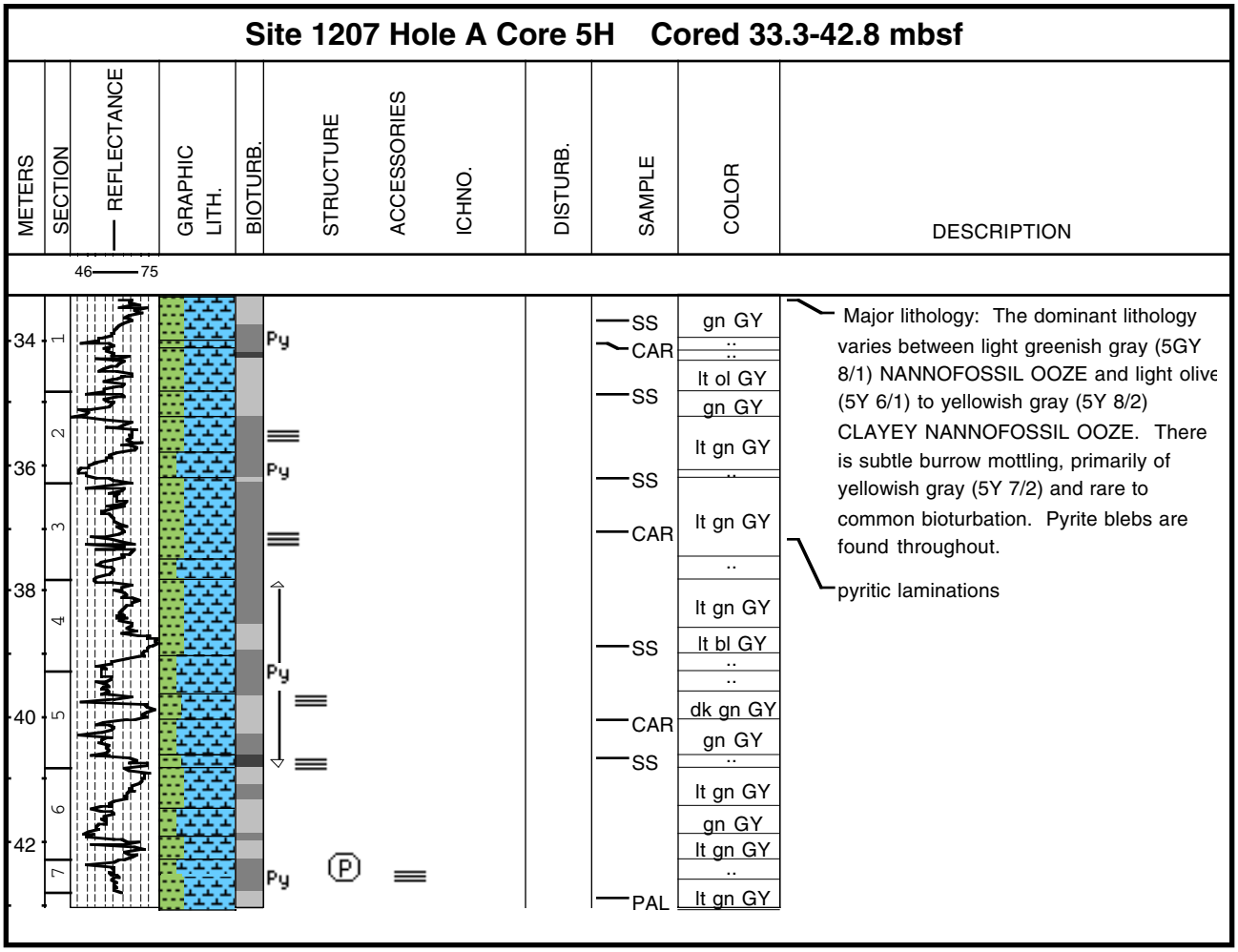
Core Photo


Site 1207 Hole A Core 3H Cored 14.3-23.8 mbsf
METERS
SECTION
REFLECTANCE
47
74
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
16
18
20
22
24
1
2
3
4
5
6
7
P
CAR
SS
XRD
SS
CAR
SS
CAR
SS
SS
PAL
lt ol GY
ol GY
lt ol GY
lt GY
lt ol GY
lt GY
lt gn GY
lt gn GY
lt ol GY
lt gn GY
Major Lithology:
The two dominant lithologies in this core are a light olive gray (5Y 4/1) NANNOFOSSIL OOZE WITH CLAY AND FORAMINIFERS and an light greenish gray (5Y 6/1) to grayish olive (10Y 4/2) CLAYEY NANNOFOSSIL OOZE WITH DIATOMS.
Minor Lithologies:
Rare green laminae consist of NANNOFOSSIL CLAY WITH FORAMS and discrete, thin black laminae consist of CLAYEY PYRITIC NANNOFOSSIL OOZE.
General Description:
The light olive gray ooze is characterized by rare to moderate bioturbation and the olive gray ooze is characterized by rare bioturbation. Both lithologies contain blebs of pyrite and green and black laminae. A clast of pumice (~1 cm in diameter) is present in Section 1.

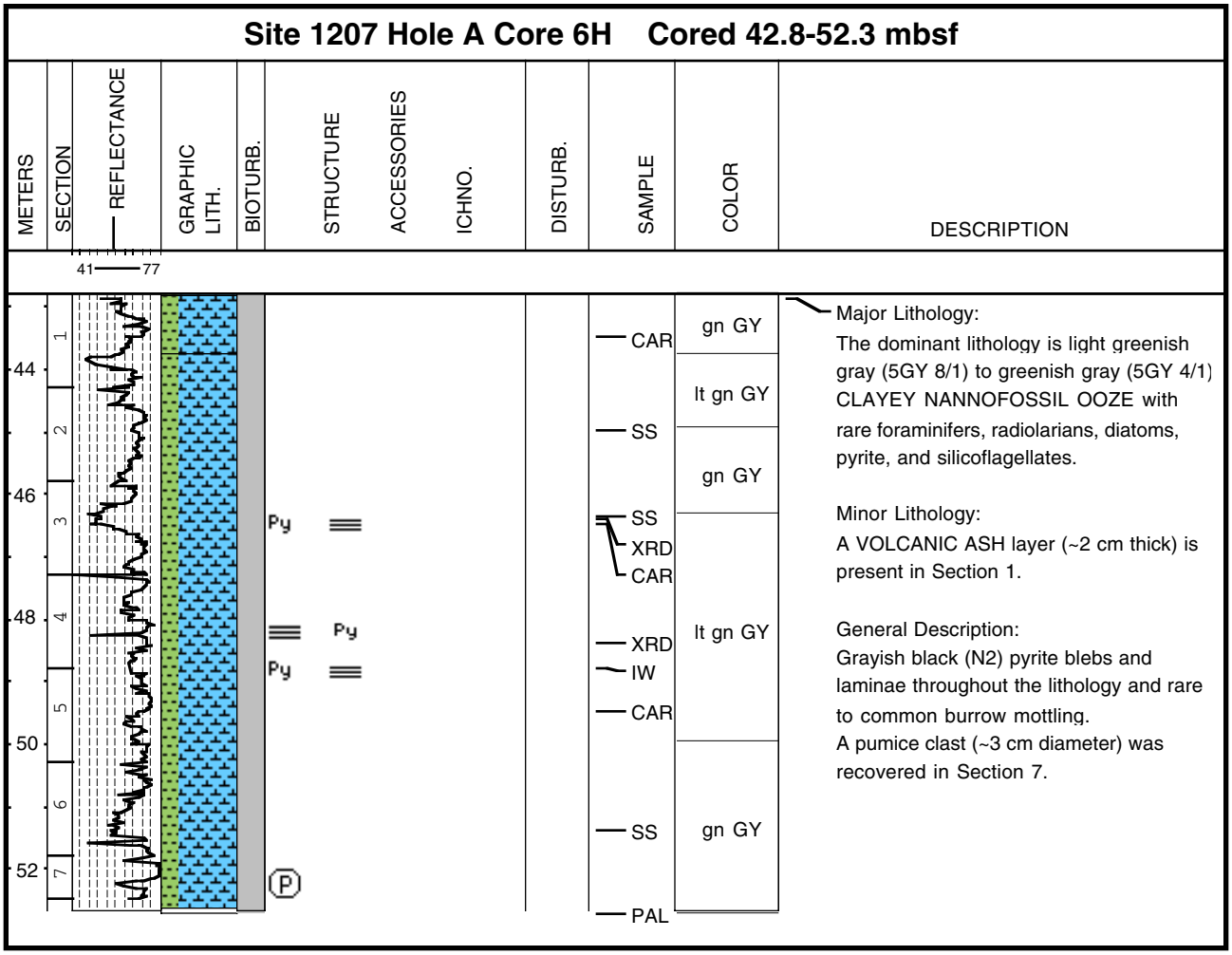
Core Photo


Site 1207 Hole A Core 4H Cored 23.8-33.3 mbsf
METERS
SECTION
REFLECTANCE
33
75
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
26
28
30
32
1
2
3
4
5
6
7
Py
SS
XRD
CAR
PAL
lt GY
gn GY
vlt GY
lt gn GY
lt bl GY
Major Lithology:
The dominant lithology is a light gray (N7) grading to greenish gray (5GY 6/1) CLAYEY NANNOFOSSIL OOZE WITH DIATOMS, FORAMINIFERS, RADIOLARIANS AND VOLCANIC GLASS and light greenish gray (5GY 8/1) NANNOFOSSIL OOZE .
General Description:
Very light gray intervals are indistinctly mottled with yellowish gray (5Y 8/1). Greenish gray intervals mottled with darker greenish gray. Pyrite blebs are disseminated throughout.
indurated or cemented thin, grayish green (5G 5/2) layer

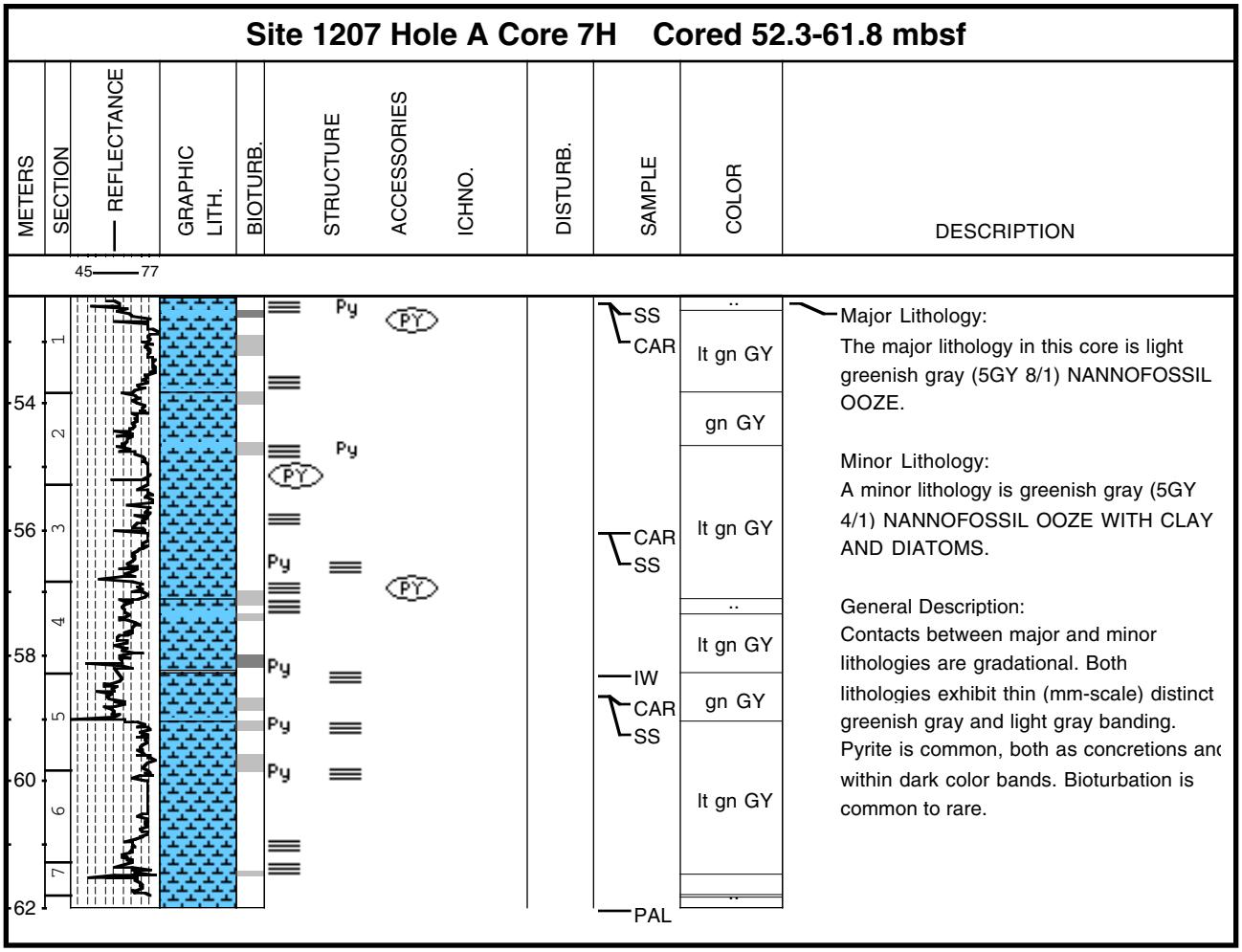
Core Photo


Site 1207 Hole A Core 5H Cored 33.3-42.8 mbsf
METERS
SECTION
REFLECTANCE
46
75
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
34
36
38
40
42
1
2
3
4
5
6
7
Py
P
SS
CAR
SS
SS
CAR
SS
CAR
SS
PAL
gn GY
lt ol GY
gn GY
lt gn GY
lt gn GY
lt gn GY
lt bl GY
dk gn GY
gn GY
lt gn GY
gn GY
lt gn GY
lt gn GY
Major lithology: The dominant lithology varies between light greenish gray (5GY 8/1) NANNOFOSSIL OOZE and light olive (5Y 6/1) to yellowish gray (5Y 8/2) CLAYEY NANNOFOSSIL OOZE. There is subtle burrow mottling, primarily of yellowish gray (5Y 7/2) and rare to common bioturbation. Pyrite blebs are found throughout.
pyritic laminations

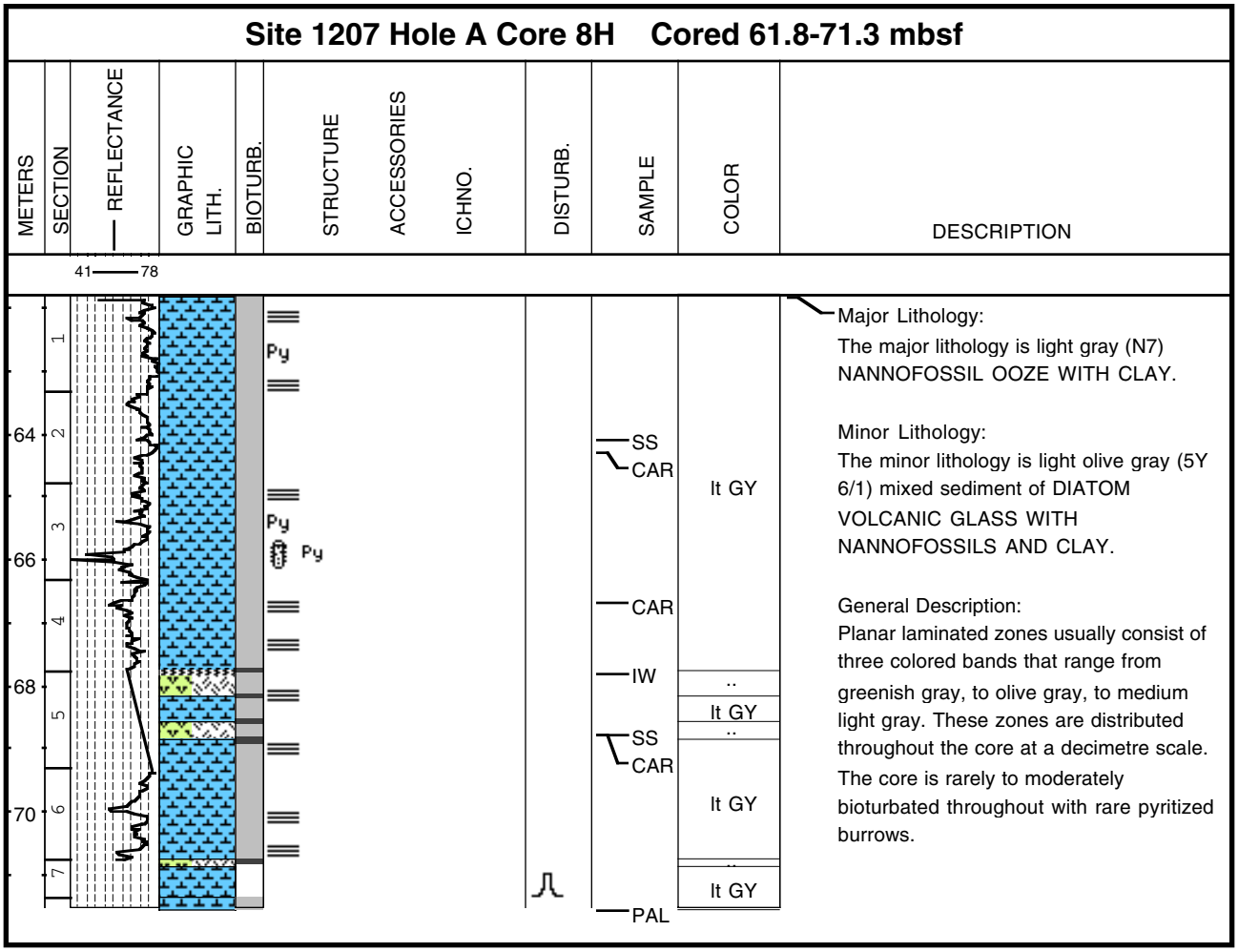
Core Photo


Site 1207 Hole A Core 6H Cored 42.8-52.3 mbsf
METERS
SECTION
REFLECTANCE
41
77
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
44
46
48
50
52
1
2
3
4
5
6
7
Py
Py
Py
P
CAR
SS
SS
XRD
CAR
XRD
IW
CAR
SS
PAL
gn GY
lt gn GY
gn GY
lt gn GY
gn GY
Major Lithology:
The dominant lithology is light greenish gray (5GY 8/1) to greenish gray (5GY 4/1) CLAYEY NANNOFOSSIL OOZE with rare foraminifers, radiolarians, diatoms, pyrite, and silicoflagellates.
Minor Lithology:
A VOLCANIC ASH layer (~2 cm thick) is present in Section 1.
General Description:
Grayish black (N2) pyrite blebs and laminae throughout the lithology and rare to common burrow mottling.
A pumice clast (~3 cm diameter) was recovered in Section 7.

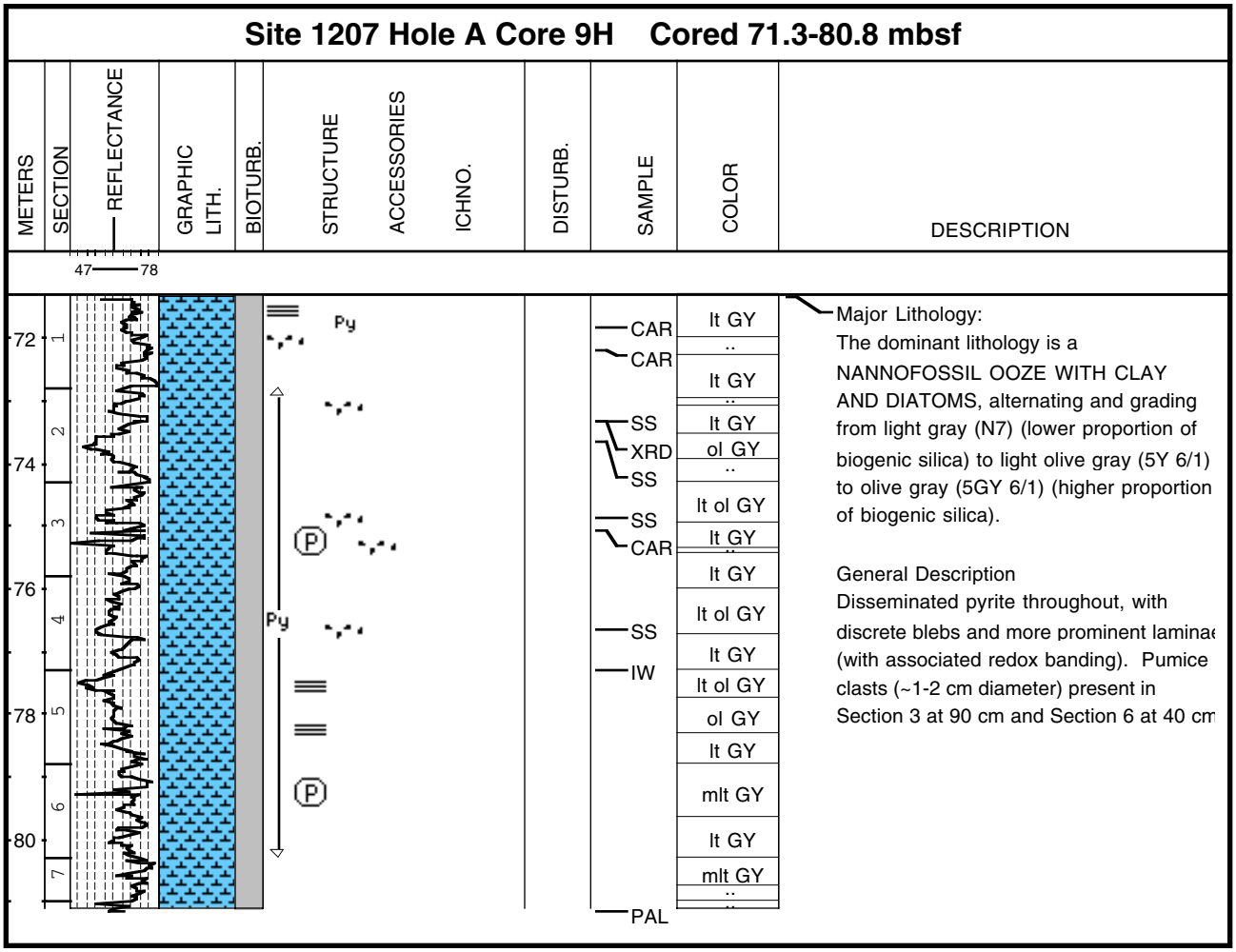
Core Photo


Site 1207 Hole A Core 7H Cored 52.3-61.8 mbsf
METERS
SECTION
REFLECTANCE
45
77
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
54
56
58
60
62
1
2
3
4
5
6
7
Py
PY
SS
CAR
IW
PAL
lt gn GY
gn GY
Major Lithology:
The major lithology in this core is light greenish gray (5GY 8/1) NANNOFOSSIL OOZE.
Minor Lithology:
A minor lithology is greenish gray (5GY 4/1) NANNOFOSSIL OOZE WITH CLAY AND DIATOMS.
General Description:
Contacts between major and minor lithologies are gradational. Both lithologies exhibit thin (mm-scale) distinct greenish gray and light gray banding. Pyrite is common, both as concretions and within dark color bands. Bioturbation is common to rare.

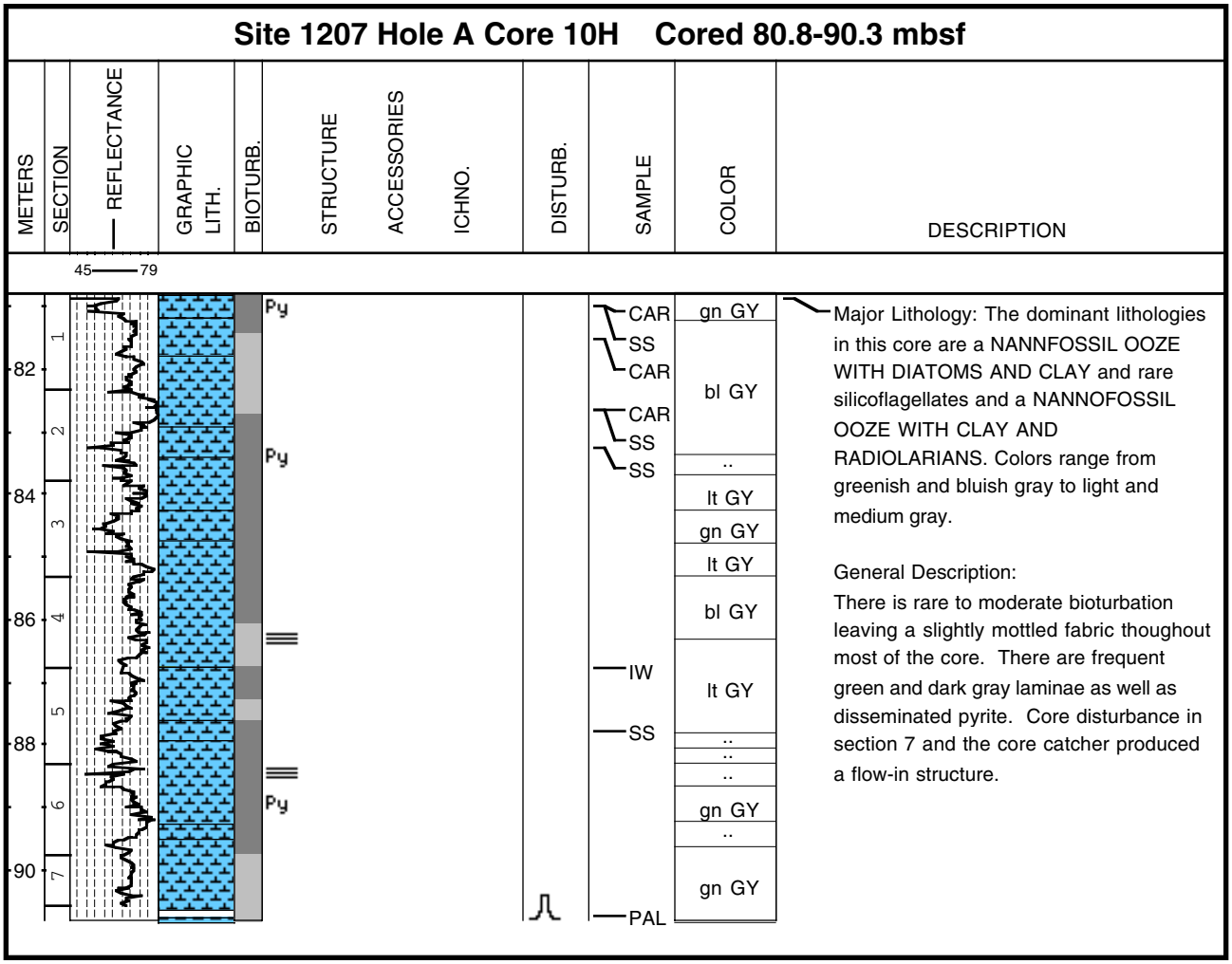
Core Photo


Site 1207 Hole A Core 8H Cored 61.8-71.3 mbsf
METERS
SECTION
REFLECTANCE
41
78
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
64
66
68
70
1
2
3
4
5
6
7
Py
Py
Py
SS
CAR
CAR
IW
SS
CAR
PAL
lt GY
lt GY
lt GY
lt GY
Major Lithology:
The major lithology is light gray (N7) NANNOFOSSIL OOZE WITH CLAY.
Minor Lithology:
The minor lithology is light olive gray (5Y 6/1) mixed sediment of DIATOM VOLCANIC GLASS WITH NANNOFOSSILS AND CLAY.
General Description:
Planar laminated zones usually consist of three colored bands that range from greenish gray, to olive gray, to medium light gray. These zones are distributed throughout the core at a decimetre scale. The core is rarely to moderately bioturbated throughout with rare pyritized burrows.

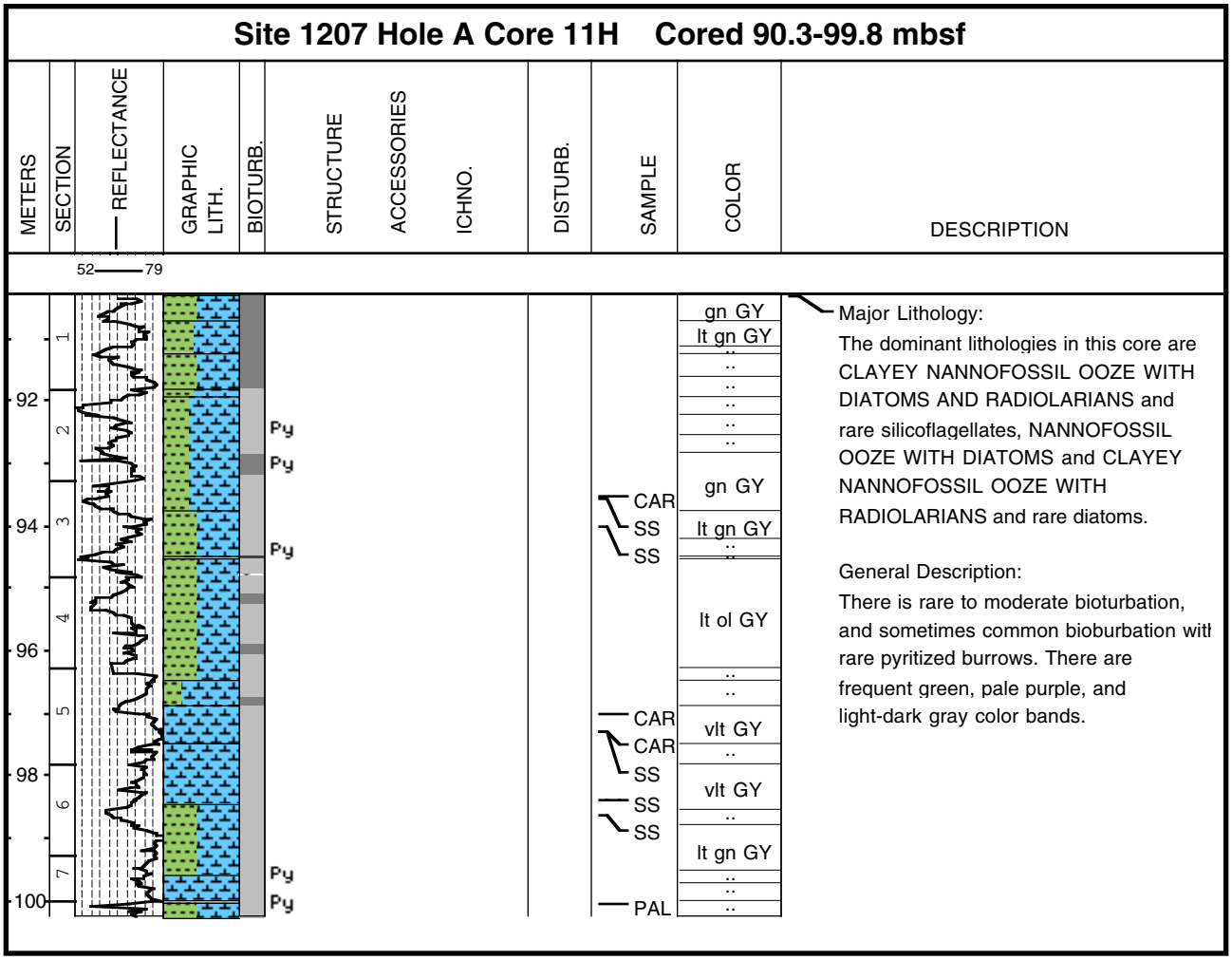
Core Photo


Site 1207 Hole A Core 9H Cored 71.3-80.8 mbsf
METERS
SECTION
REFLECTANCE
47
78
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
72
74
76
78
80
1
2
3
4
5
6
7
Py
Py
P
P
CAR
CAR
SS
XRD
SS
SS
CAR
SS
IW
PAL
lt GY
lt GY
lt GY
ol GY
lt ol GY
lt GY
lt GY
lt ol GY
lt GY
lt ol GY
ol GY
lt GY
mlt GY
lt GY
mlt GY
Major Lithology:
The dominant lithology is a NANNOFOSSIL OOZE WITH CLAY AND DIATOMS, alternating and grading from light gray (N7) (lower proportion of biogenic silica) to light olive gray (5Y 6/1) to olive gray (5GY 6/1) (higher proportion of biogenic silica).
General Description
Disseminated pyrite throughout, with discrete blebs and more prominent laminae (with associated redox banding). Pumice clasts (~1-2 cm diameter) present in Section 3 at 90 cm and Section 6 at 40 cm

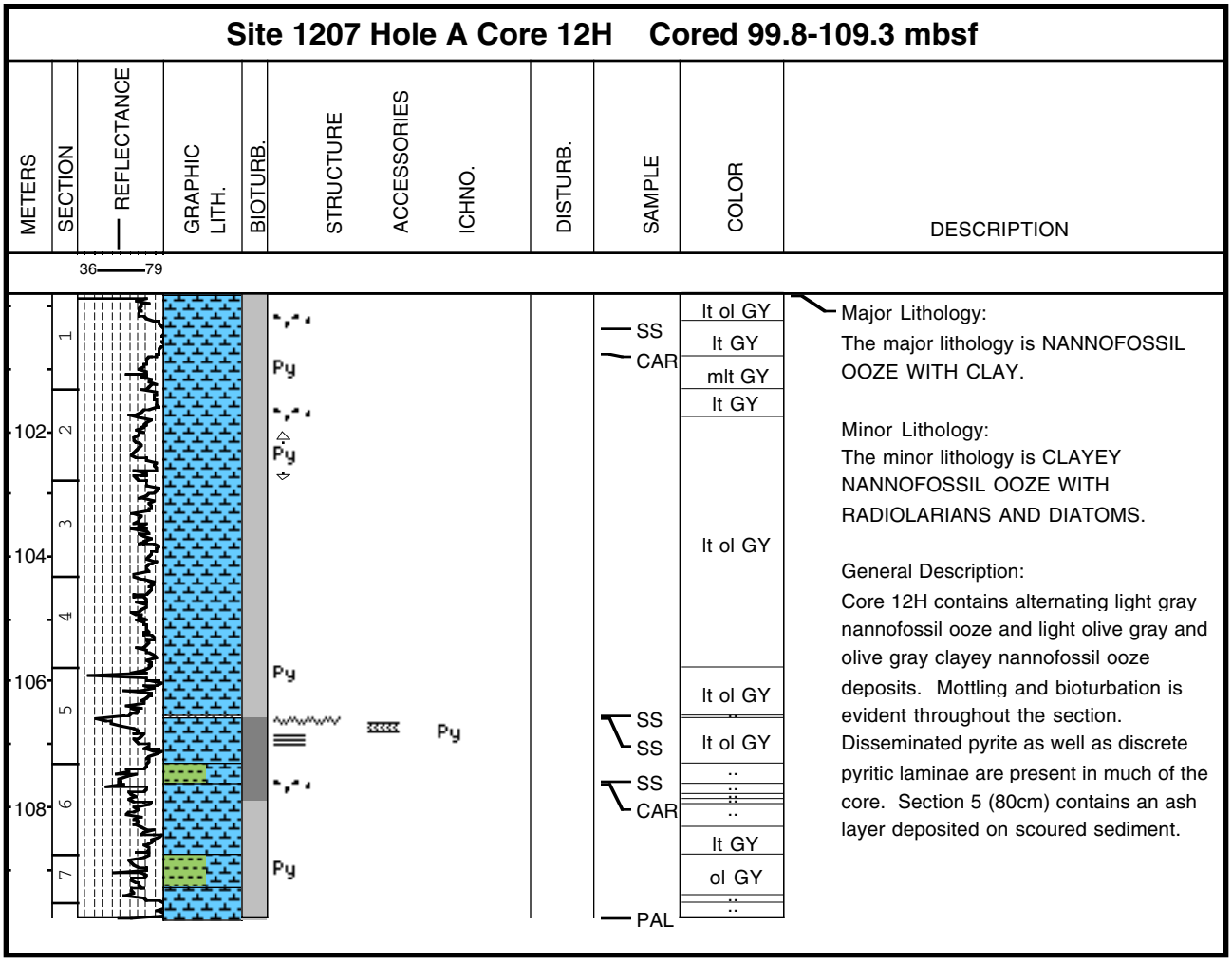
Core Photo


Site 1207 Hole A Core 10H Cored 80.8-90.3 mbsf
METERS
SECTION
REFLECTANCE
45
79
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
82
84
86
88
90
1
2
3
4
5
6
7
Py
Py
Py
CAR
SS
CAR
CAR
SS
SS
IW
SS
PAL
gn GY
bl GY
..
lt GY
gn GY
lt GY
bl GY
lt GY
..
..
..
gn GY
..
gn GY
Major Lithology: The dominant lithologies in this core are a NANNFOSSIL OOZE WITH DIATOMS AND CLAY and rare silicoflagellates and a NANNOFOSSIL OOZE WITH CLAY AND RADIOLARIANS. Colors range from greenish and bluish gray to light and medium gray.
General Description:
There is rare to moderate bioturbation leaving a slightly mottled fabric thoughout most of the core. There are frequent green and dark gray laminae as well as disseminated pyrite. Core disturbance in section 7 and the core catcher produced a flow-in structure.

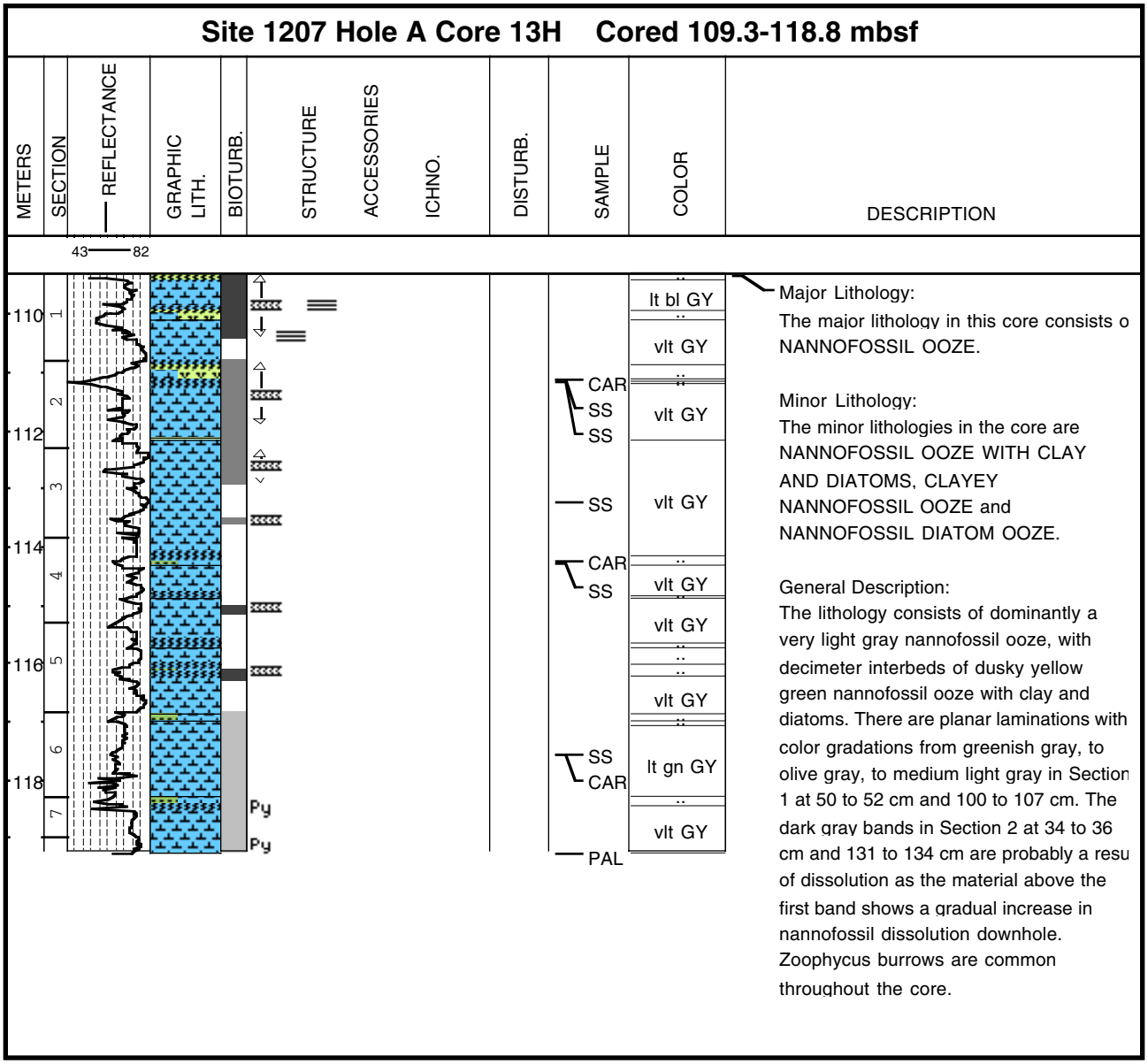
Core Photo


Site 1207 Hole A Core 11H Cored 90.3-99.8 mbsf
METERS
SECTION
REFLECTANCE
52
79
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
92
94
96
98
100
Py
CAR
SS
PAL
gn GY
lt gn GY
lt ol GY
vlt GY
Major Lithology:
The dominant lithologies in this core are CLAYEY NANNOFOSSIL OOZE WITH DIATOMS AND RADIOLARIANS and rare silicoflagellates, NANNOFOSSIL OOZE WITH DIATOMS and CLAYEY NANNOFOSSIL OOZE WITH RADIOLARIANS and rare diatoms.
General Description:
There is rare to moderate bioturbation, and sometimes common bioburbation with rare pyritized burrows. There are frequent green, pale purple, and light-dark gray color bands.

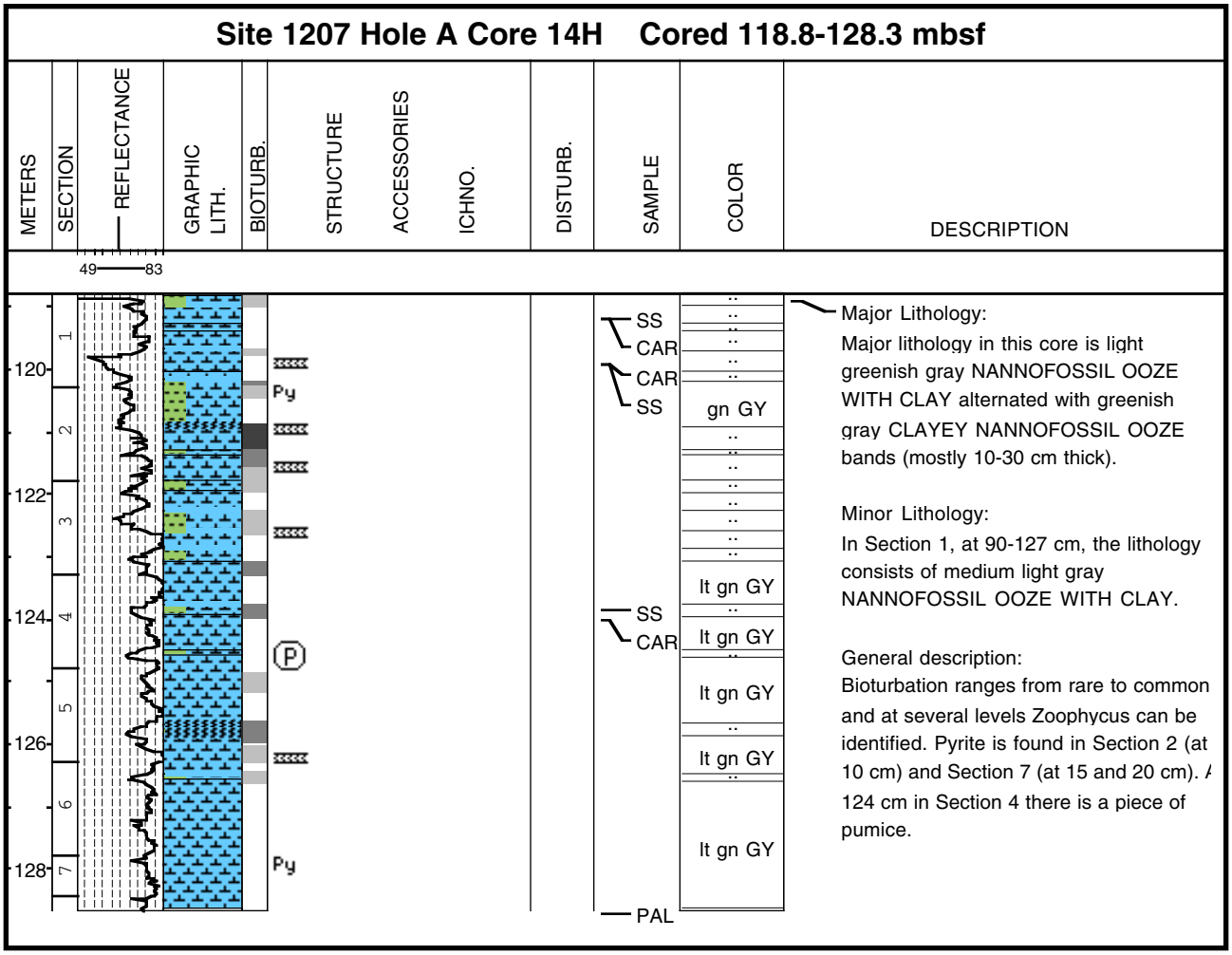
Core Photo


Site 1207 Hole A Core 12H Cored 99.8-109.3 mbsf
METERS
SECTION
REFLECTANCE
36
79
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
102
104
106
108
1
2
3
4
5
6
7
Py
SS
CAR
PAL
lt ol GY
lt GY
mlt GY
ol GY
Major Lithology:
The major lithology is NANNOFOSSIL OOZE WITH CLAY.
Minor Lithology:
The minor lithology is CLAYEY NANNOFOSSIL OOZE WITH RADIOLARIANS AND DIATOMS.
General Description:
Core 12H contains alternating light gray nannofossil ooze and light olive gray and olive gray clayey nannofossil ooze deposits. Mottling and bioturbation is evident throughout the section. Disseminated pyrite as well as discrete pyritic laminae are present in much of the core. Section 5 (80cm) contains an ash layer deposited on scoured sediment.

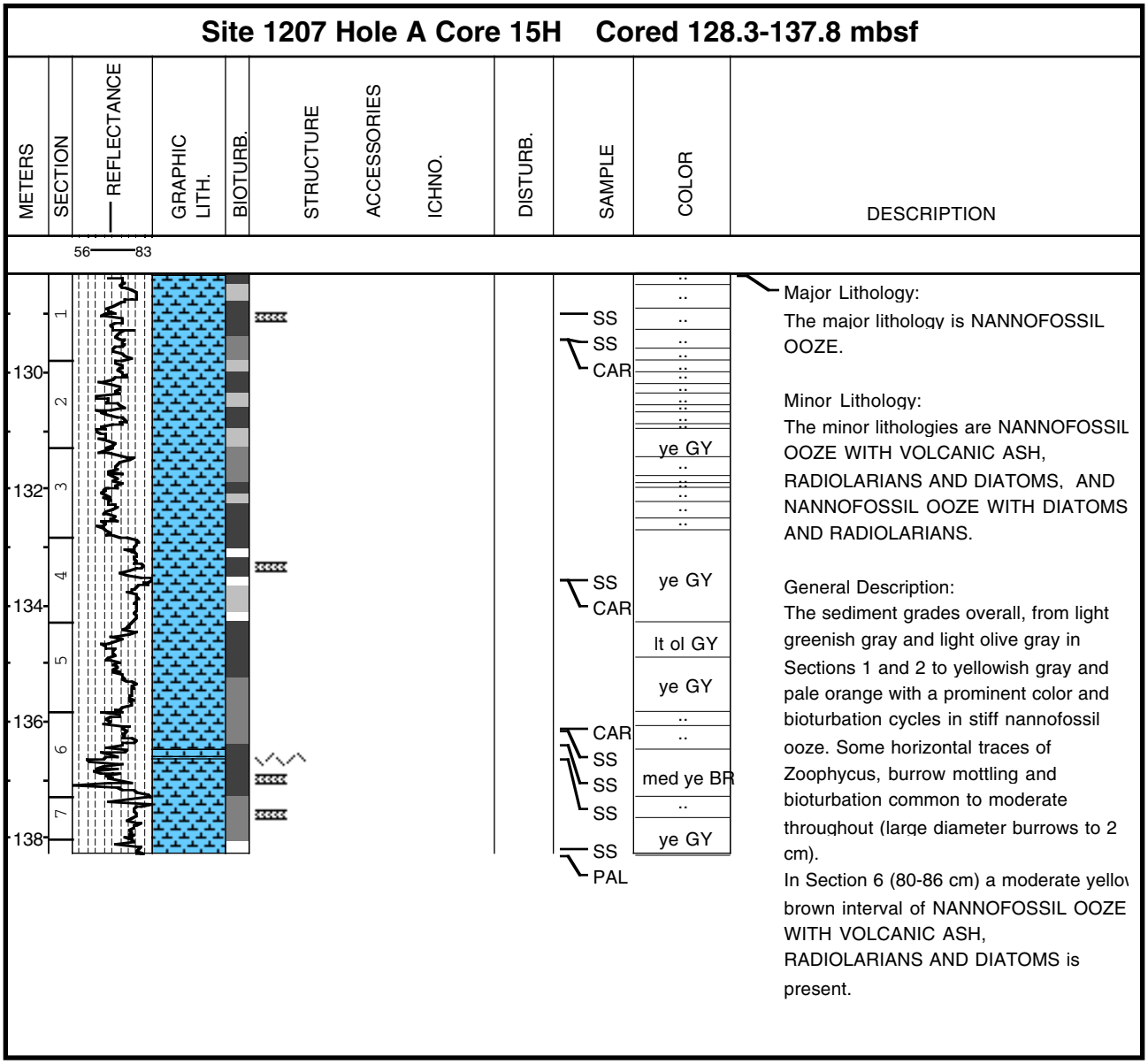
Core Photo


Site 1207 Hole A Core 13H Cored 109.3-118.8 mbsf
METERS
SECTION
REFLECTANCE
43
82
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
110
112
114
116
118
1
2
3
4
5
6
7
Py
Py
CAR
SS
SS
SS
CAR
SS
SS
CAR
PAL
lt bl GY
vlt GY
vlt GY
vlt GY
vlt GY
vlt GY
vlt GY
lt gn GY
vlt GY
Major Lithology:
The major lithology in this core consists o
NANNOFOSSIL OOZE.
Minor Lithology:
The minor lithologies in the core are
NANNOFOSSIL OOZE WITH CLAY
AND DIATOMS, CLAYEY
NANNOFOSSIL OOZE and
NANNOFOSSIL DIATOM OOZE.
General Description:
The lithology consists of dominantly a
very light gray nannofossil ooze, with
decimeter interbeds of dusky yellow
green nannofossil ooze with clay and
diatoms. There are planar laminations with
color gradations from greenish gray, to
olive gray, to medium light gray in Section
1 at 50 to 52 cm and 100 to 107 cm. The
dark gray bands in Section 2 at 34 to 36
cm and 131 to 134 cm are probably a resu
of dissolution as the material above the
first band shows a gradual increase in
nannofossil dissolution downhole.
Zoophycus burrows are common
throughout the core.

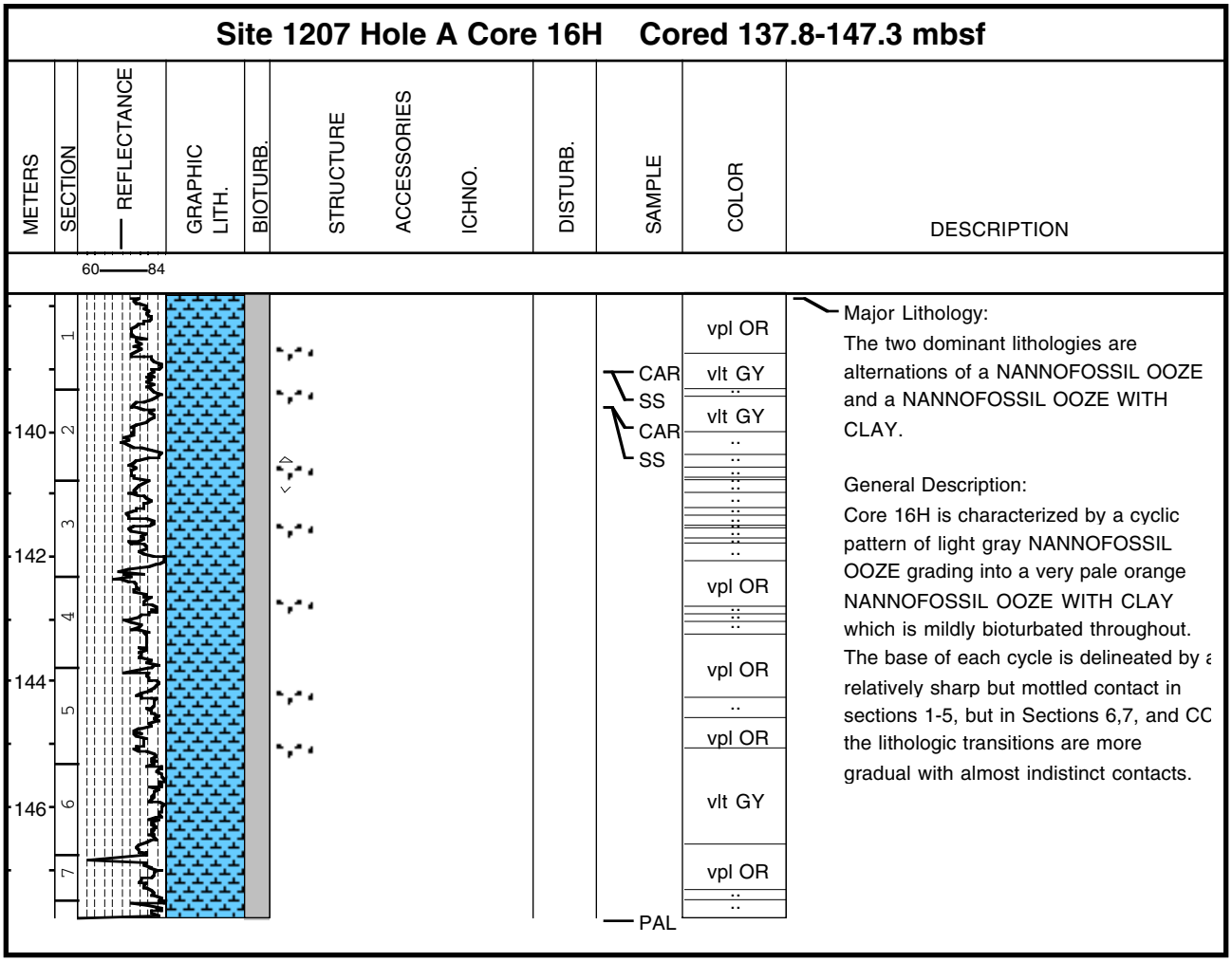
Core Photo


Site 1207 Hole A Core 14H Cored 118.8-128.3 mbsf
METERS
SECTION
REFLECTANCE
49
83
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
120
122
124
126
128
1
2
3
4
5
6
7
Py
Py
P
SS
CAR
CAR
SS
SS
CAR
PAL
gn GY
lt gn GY
lt gn GY
lt gn GY
lt gn GY
Major Lithology:
Major lithology in this core is light greenish gray NANNOFOSSIL OOZE WITH CLAY alternated with greenish gray CLAYEY NANNOFOSSIL OOZE bands (mostly 10-30 cm thick).
Minor Lithology:
In Section 1, at 90-127 cm, the lithology consists of medium light gray NANNOFOSSIL OOZE WITH CLAY.
General description:
Bioturbation ranges from rare to common and at several levels Zoophycus can be identified. Pyrite is found in Section 2 (at 10 cm) and Section 7 (at 15 and 20 cm). A
124 cm in Section 4 there is a piece of pumice.

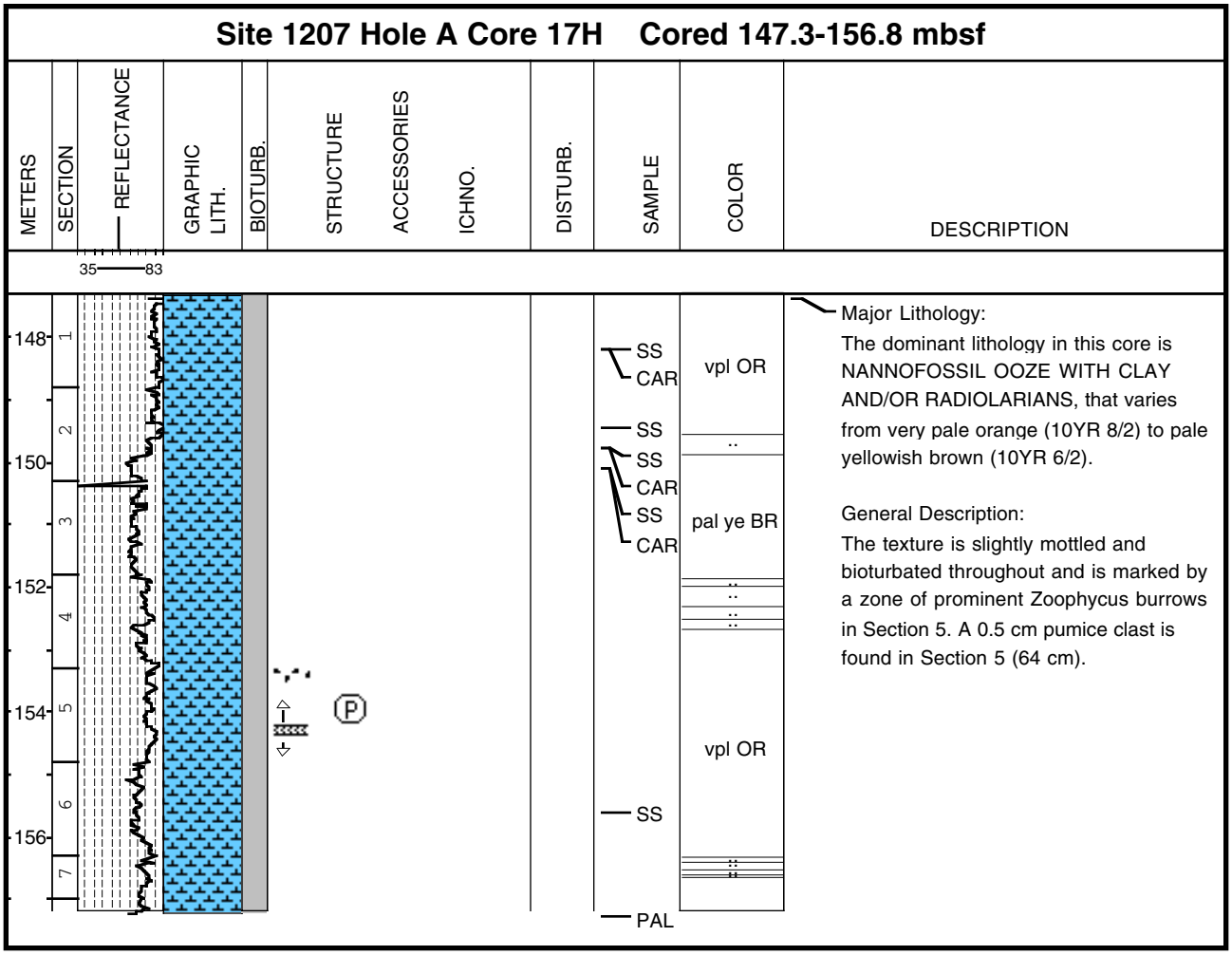
Core Photo


Site 1207 Hole A Core 15H Cored 128.3-137.8 mbsf
METERS
SECTION
REFLECTANCE
56
83
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
130
132
134
136
138
1
2
3
4
5
6
7
SS
SS
CAR
ye GY
SS
CAR
ye GY
lt ol GY
ye GY
CAR
SS
SS
SS
med ye BR
ye GY
SS
PAL
Major Lithology:
The major lithology is NANNOFOSSIL OOZE.
Minor Lithology:
The minor lithologies are NANNOFOSSIL OOZE WITH VOLCANIC ASH, RADIOLARIANS AND DIATOMS, AND NANNOFOSSIL OOZE WITH DIATOMS AND RADIOLARIANS.
General Description:
The sediment grades overall, from light greenish gray and light olive gray in Sections 1 and 2 to yellowish gray and pale orange with a prominent color and bioturbation cycles in stiff nannofossil ooze. Some horizontal traces of Zoophycus, burrow mottling and bioturbation common to moderate throughout (large diameter burrows to 2 cm).
In Section 6 (80-86 cm) a moderate yello
brown interval of NANNOFOSSIL OOZE WITH VOLCANIC ASH, RADIOLARIANS AND DIATOMS is present.

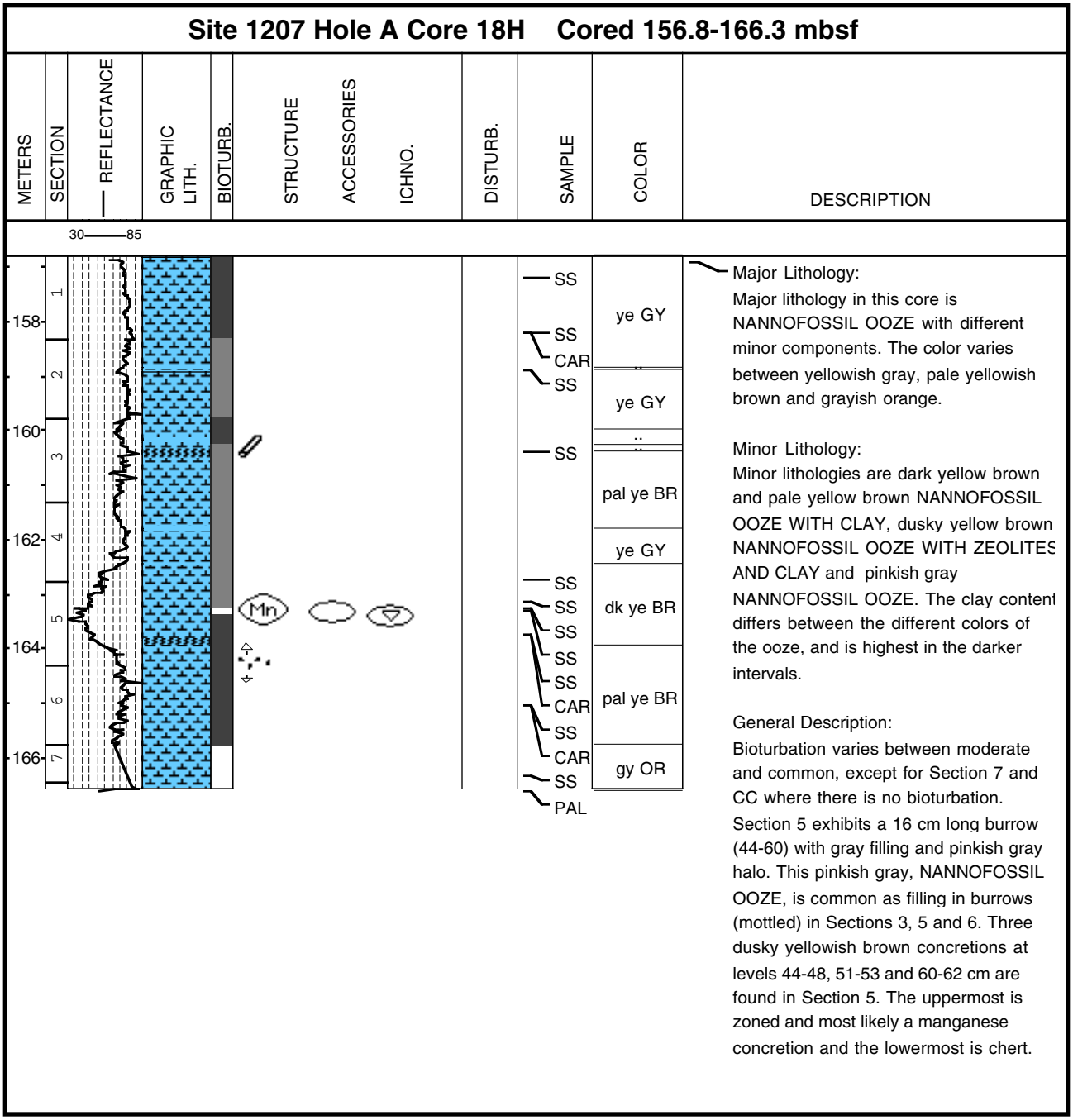
Core Photo


Site 1207 Hole A Core 16H Cored 137.8-147.3 mbsf
METERS
SECTION
REFLECTANCE
60
84
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
140
142
144
146
1
2
3
4
5
6
7
CAR
SS
CAR
SS
PAL
vpl OR
vlt GY
vlt GY
vpl OR
vpl OR
vpl OR
vlt GY
vpl OR
Major Lithology:
The two dominant lithologies are alternations of a NANNOFOSSIL OOZE and a NANNOFOSSIL OOZE WITH CLAY.
General Description:
Core 16H is characterized by a cyclic pattern of light gray NANNOFOSSIL OOZE grading into a very pale orange NANNOFOSSIL OOZE WITH CLAY which is mildly bioturbated throughout. The base of each cycle is delineated by a relatively sharp but mottled contact in sections 1-5, but in Sections 6,7, and CC the lithologic transitions are more gradual with almost indistinct contacts.

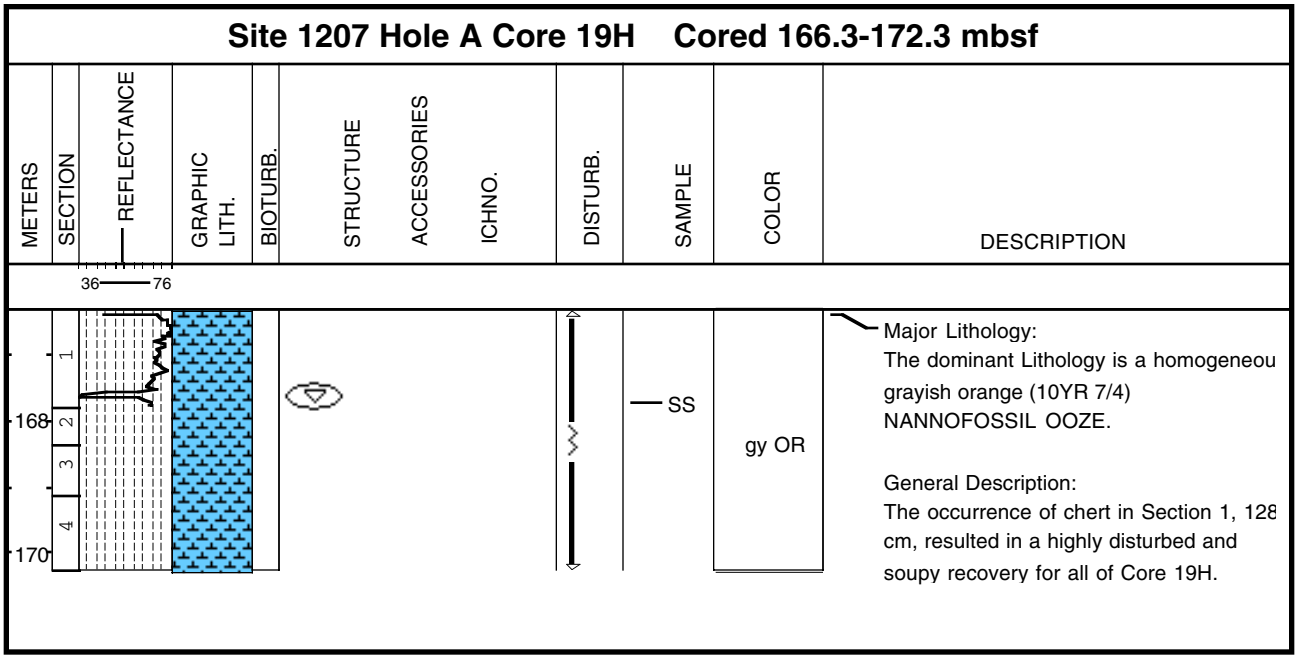
Core Photo


Site 1207 Hole A Core 17H Cored 147.3-156.8 mbsf
METERS
SECTION
REFLECTANCE
35
83
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
148
150
152
154
156
1
2
3
4
5
6
7
SS
CAR
SS
SS
CAR
SS
CAR
SS
PAL
vpl OR
pal ye BR
vpl OR
P
Major Lithology:
The dominant lithology in this core is NANNOFOSSIL OOZE WITH CLAY AND/OR RADIOLARIANS, that varies from very pale orange (10YR 8/2) to pale yellowish brown (10YR 6/2).
General Description:
The texture is slightly mottled and bioturbated throughout and is marked by a zone of prominent Zoophycus burrows in Section 5. A 0.5 cm pumice clast is found in Section 5 (64 cm).

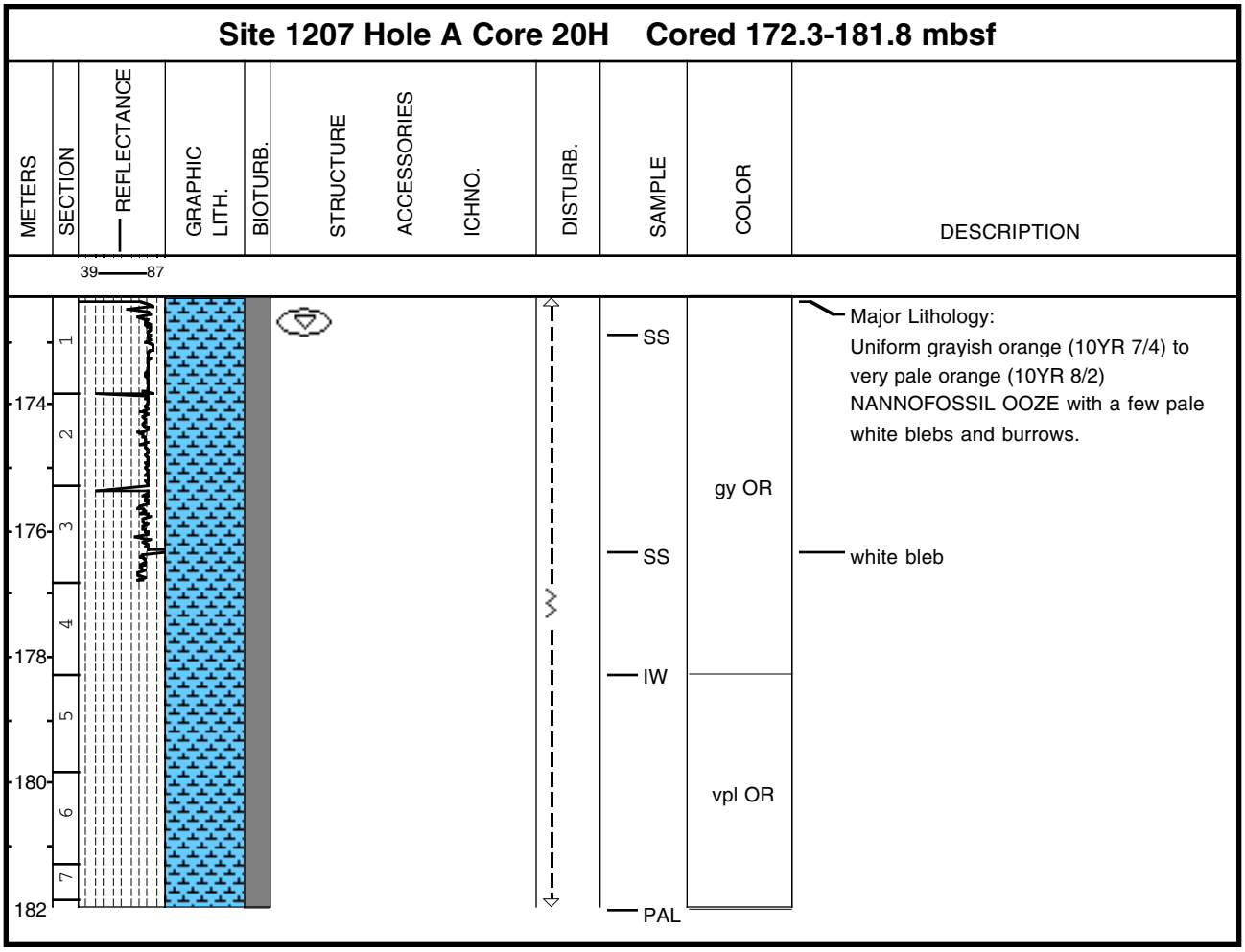
Core Photo


Site 1207 Hole A Core 18H Cored 156.8-166.3 mbsf
METERS
SECTION
REFLECTANCE
30
85
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
158
160
162
164
166
1
2
3
4
5
6
7
Mn
SS
SS
CAR
SS
SS
SS
SS
SS
SS
SS
SS
CAR
SS
CAR
SS
PAL
ye GY
ye GY
pal ye BR
ye GY
dk ye BR
pal ye BR
gy OR
Major Lithology:
Major lithology in this core is NANNOFOSSIL OOZE with different minor components. The color varies between yellowish gray, pale yellowish brown and grayish orange.
Minor Lithology:
Minor lithologies are dark yellow brown and pale yellow brown NANNOFOSSIL OOZE WITH CLAY, dusky yellow brown NANNOFOSSIL OOZE WITH ZEOLITES AND CLAY and pinkish gray NANNOFOSSIL OOZE. The clay content differs between the different colors of the ooze, and is highest in the darker intervals.
General Description:
Bioturbation varies between moderate and common, except for Section 7 and CC where there is no bioturbation. Section 5 exhibits a 16 cm long burrow (44-60) with gray filling and pinkish gray halo. This pinkish gray, NANNOFOSSIL OOZE, is common as filling in burrows (mottled) in Sections 3, 5 and 6. Three dusky yellowish brown concretions at levels 44-48, 51-53 and 60-62 cm are found in Section 5. The uppermost is zoned and most likely a manganese concretion and the lowermost is chert.

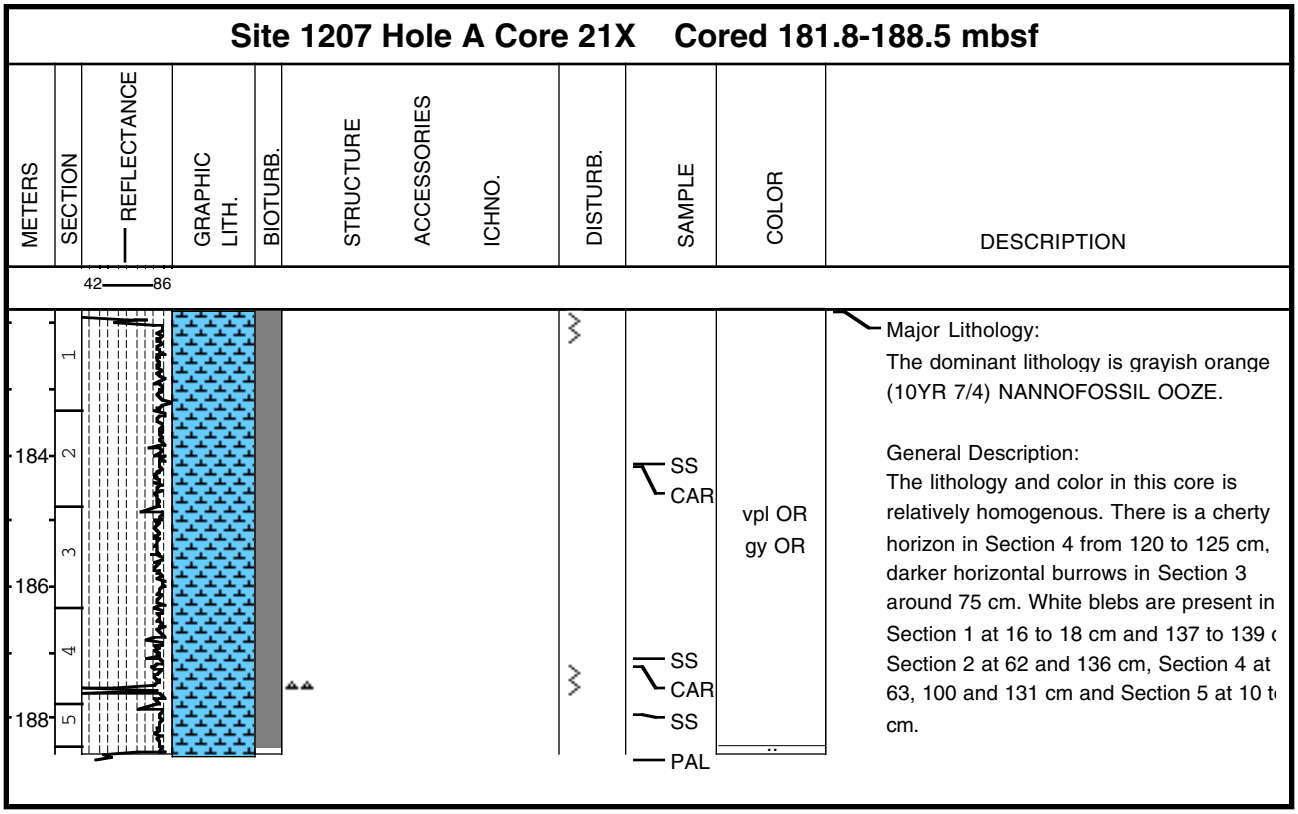
Core Photo


Site 1207 Hole A Core 19H Cored 166.3-172.3 mbsf
METERS
SECTION
REFLECTANCE
36
76
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
168
170
1
2
3
4
SS
gy OR
Major Lithology:
The dominant Lithology is a homogeneou
grayish orange (10YR 7/4)
NANNOFOSSIL OOZE.
General Description:
The occurrence of chert in Section 1, 128
cm, resulted in a highly disturbed and
soupy recovery for all of Core 19H.

Core Photo

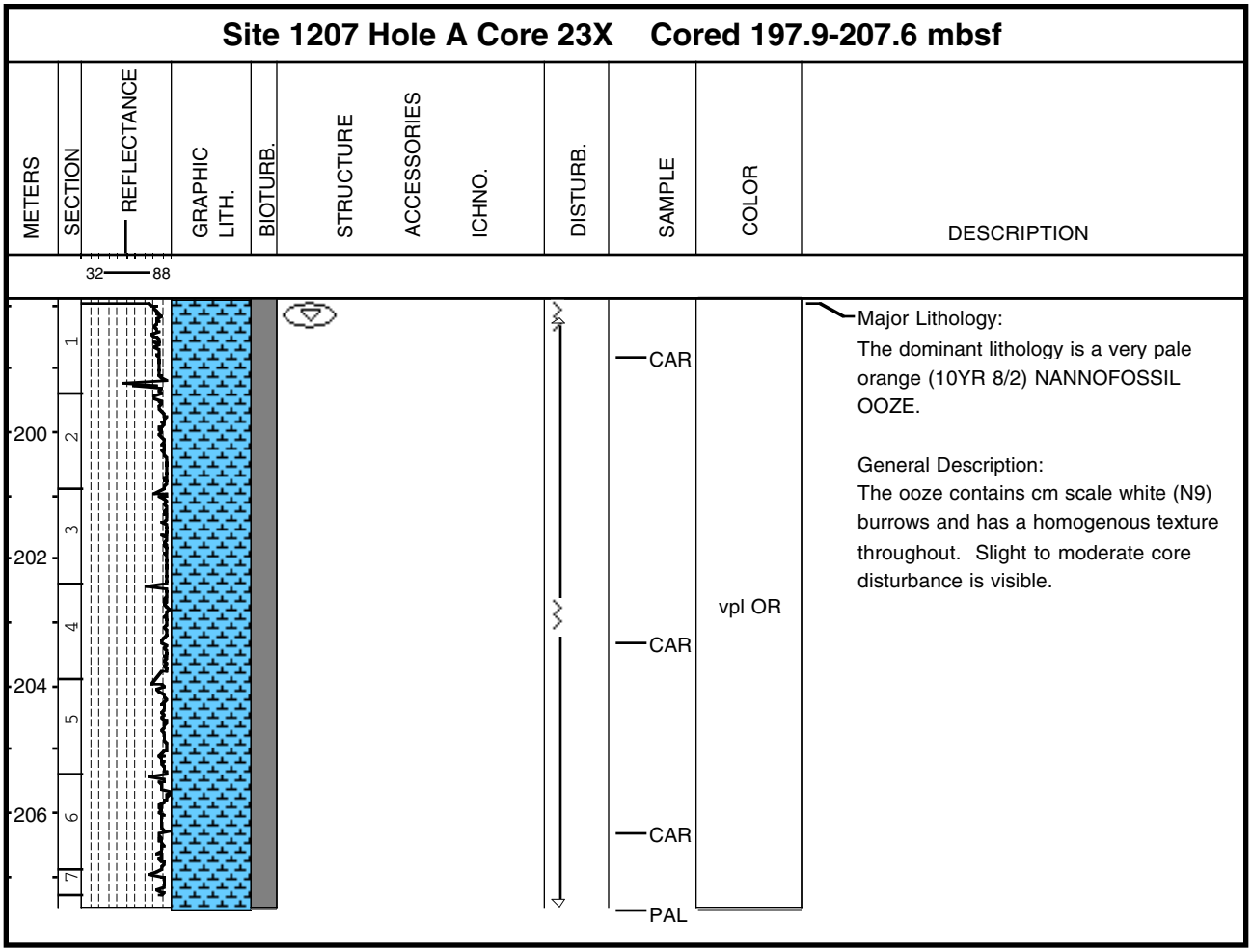

Site 1207 Hole A Core 20H Cored 172.3-181.8 mbsf
METERS
SECTION
REFLECTANCE
39
87
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
174
176
178
180
182
1
2
3
4
5
6
7
SS
SS
IW
PAL
gy OR
vpl OR
Major Lithology:
Uniform grayish orange (10YR 7/4) to very pale orange (10YR 8/2) NANNOFOSSIL OOZE with a few pale white blebs and burrows.
white bleb

Core Photo

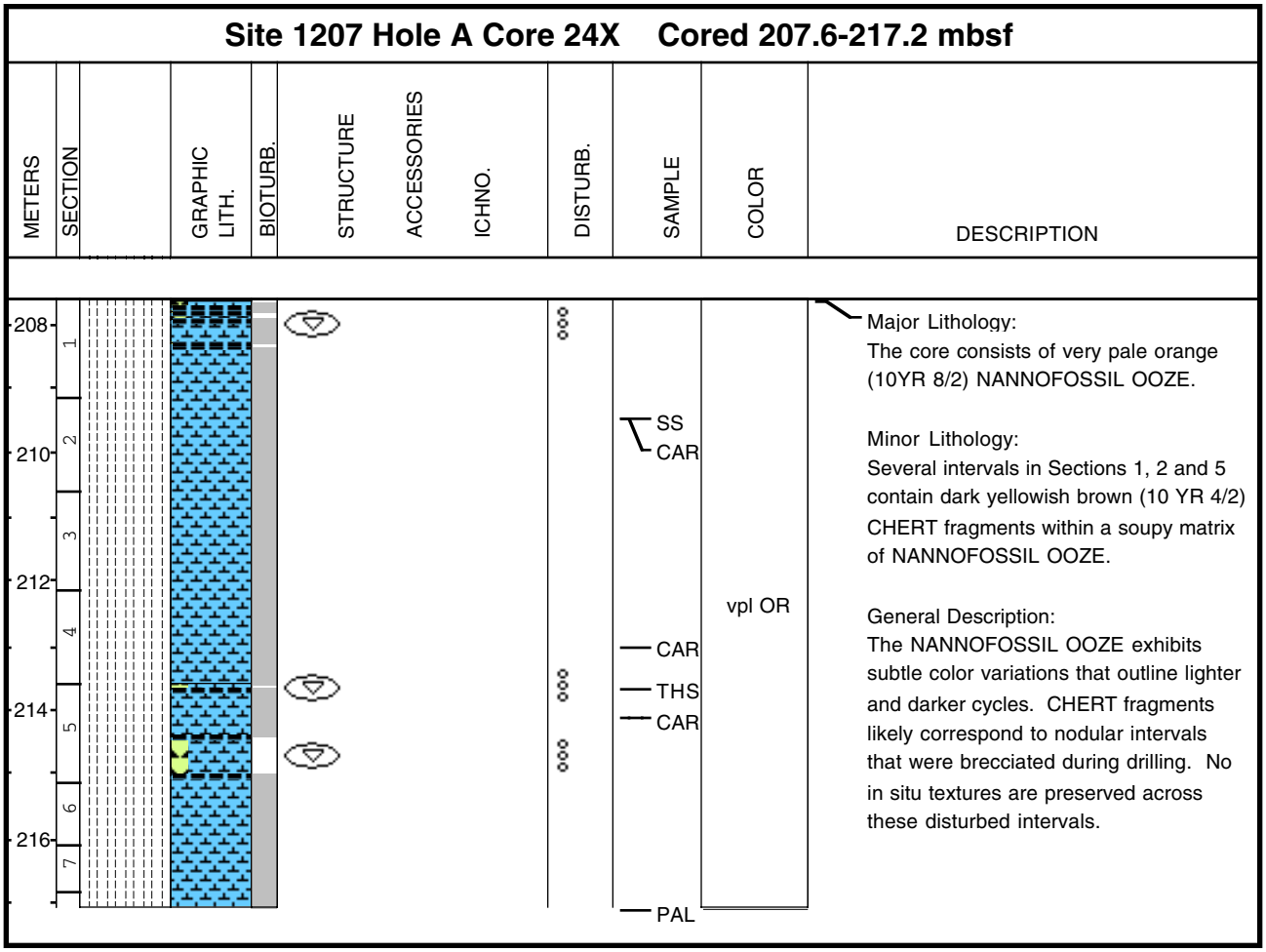


1207A-22X NO RECOVERY

Core Photo


Site 1207 Hole A Core 23X Cored 197.9-207.6 mbsf
METERS
SECTION
REFLECTANCE
32
88
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
200
202
204
206
1
2
3
4
5
6
7
CAR
CAR
CAR
PAL
vpl OR
Major Lithology:
The dominant lithology is a very pale orange (10YR 8/2) NANNOFOSSIL OOZE.
General Description:
The ooze contains cm scale white (N9) burrows and has a homogenous texture throughout. Slight to moderate core disturbance is visible.

Core Photo



1207A-25X NO RECOVERY

Core Photo

Site 1207 Hole A Core 26X Cored 226.9-228.9 mbsf

METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION

Major Lithology:
Dark yellowish brown CHERT.

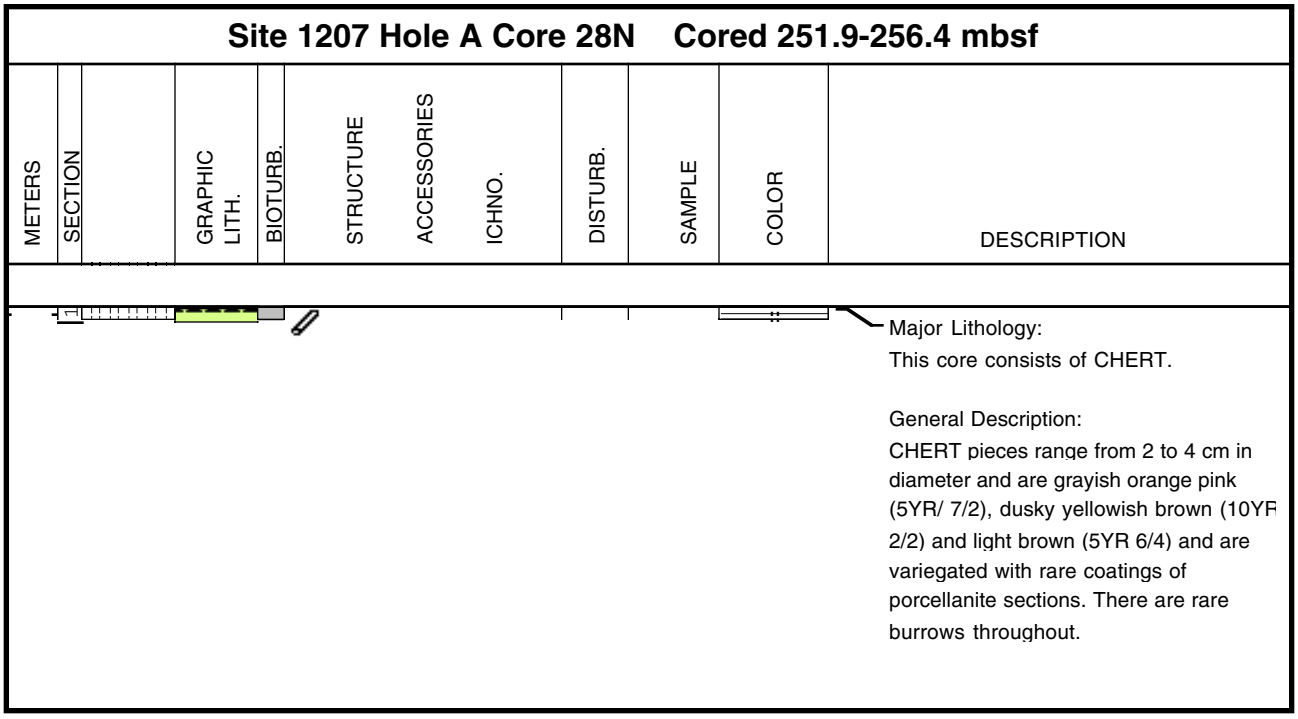
General Description:
Fragments (1-5 cm) of dark yellowish brown CHERT with moderate yellowish brown bands, and very pale orange to pale yellowish brown burrow fillings. On one side of the largest fragment very pale orange chalk coating (patina) is present.

Core Photo

Site 1207 Hole A Core 27X Cored 237.3-243.7 mbsf

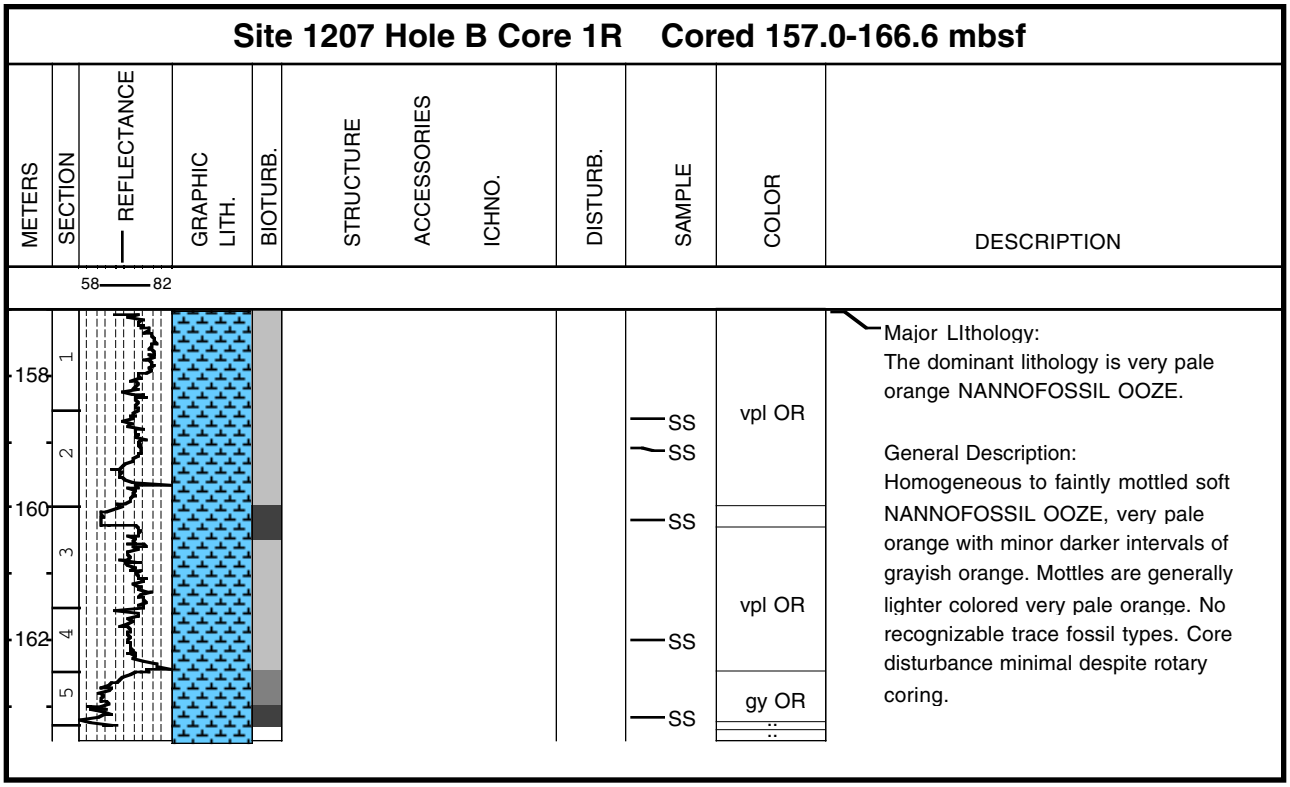
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
								THS		Major Lithology: The core consists of fragments of CHERT. General Description: The smaller fragments vary from dusky yellow brown (10YR 4/2) to light brown (5YR 5/6) in color. The largest fragment ranges in color from moderate orange pink (5YR 8/4), to grayish orange pink (5YR 7/2) to pale brown (5YR 5/2). One fragment exhibits a partial very pale orange chalk coating (patina) and some fragments are burrowed.

Core Photo

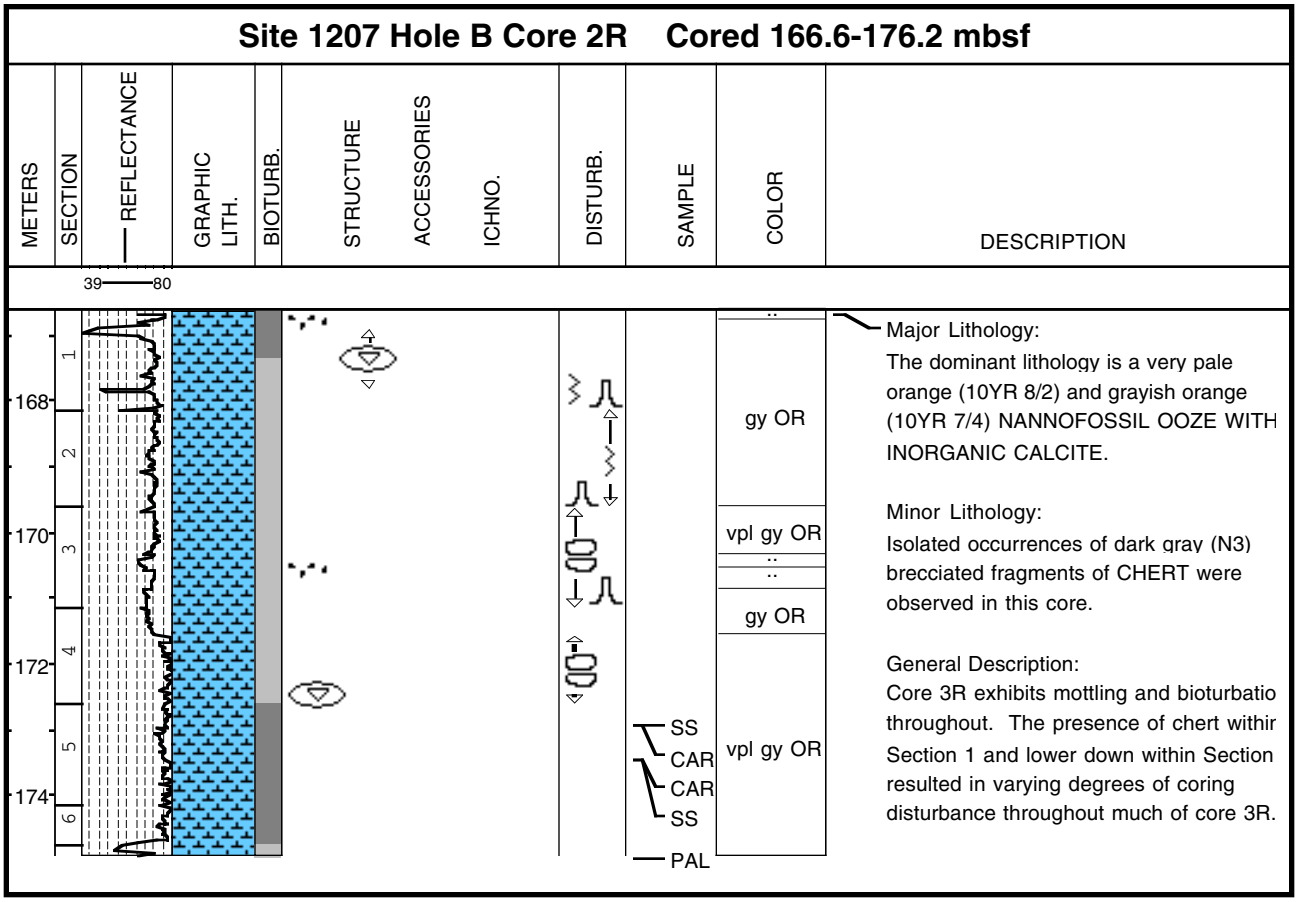


1207A-29X NO RECOVERY

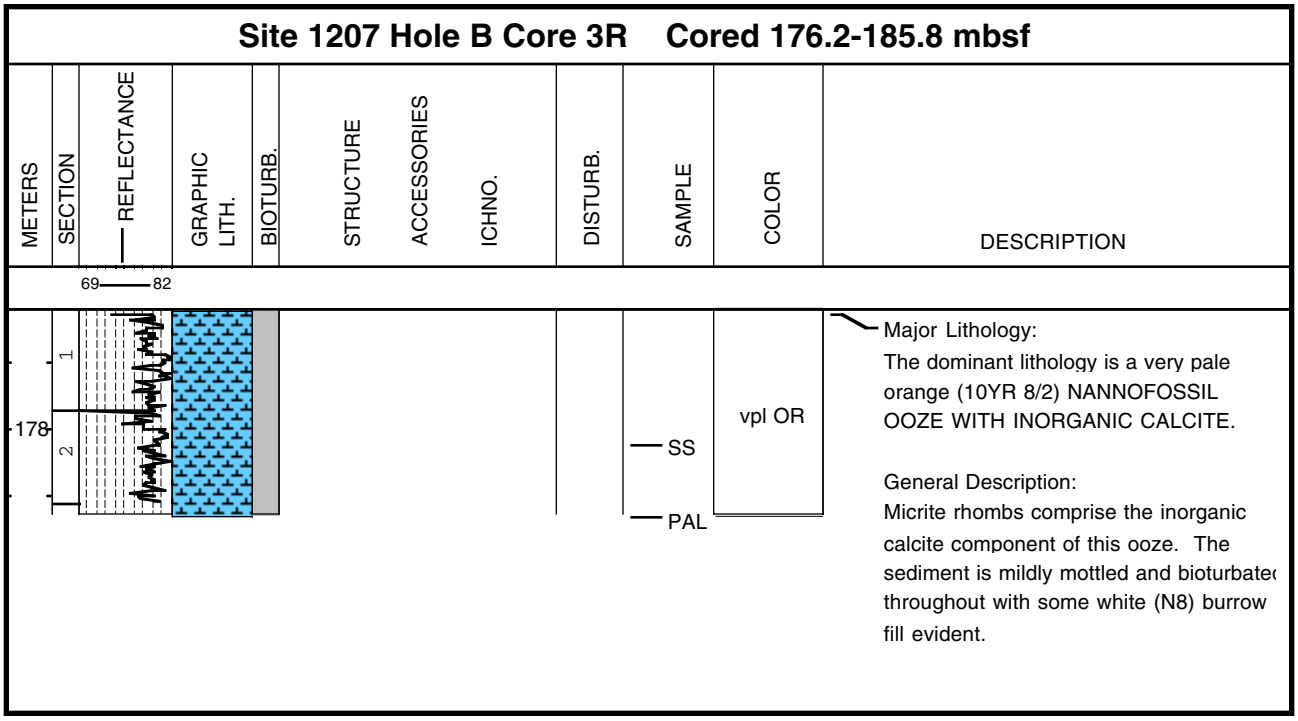
Core Photo


Site 1207 Hole B Core 1R Cored 157.0-166.6 mbsf
METERS
SECTION
REFLECTANCE
58
82
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
158
160
162
1
2
3
4
5
SS
SS
SS
SS
SS
vpl OR
vpl OR
gy OR
Major LIthology:
The dominant lithology is very pale orange NANNOFOSSIL OOZE.
General Description:
Homogeneous to faintly mottled soft NANNOFOSSIL OOZE, very pale orange with minor darker intervals of grayish orange. Mottles are generally lighter colored very pale orange. No recognizable trace fossil types. Core disturbance minimal despite rotary coring.

Core Photo

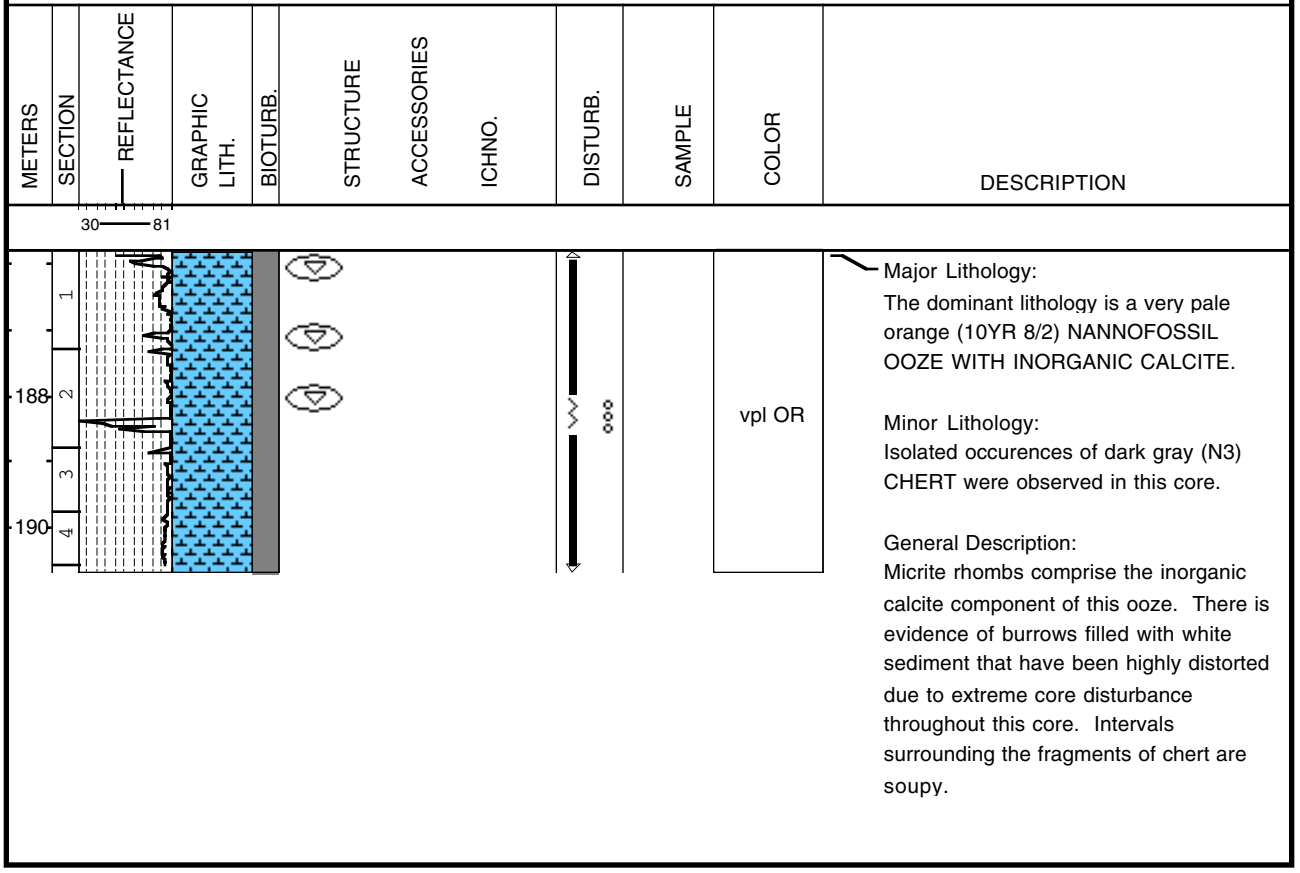

Site 1207 Hole B Core 2R Cored 166.6-176.2 mbsf
METERS
SECTION
REFLECTANCE
39
80
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
168
170
172
174
1
2
3
4
5
6
SS
CAR
CAR
SS
PAL
gy OR
vpl gy OR
gy OR
vpl gy OR
Major Lithology:
The dominant lithology is a very pale orange (10YR 8/2) and grayish orange (10YR 7/4) NANNOFOSSIL OOZE WITH INORGANIC CALCITE.
Minor Lithology:
Isolated occurrences of dark gray (N3) brecciated fragments of CHERT were observed in this core.
General Description:
Core 3R exhibits mottling and bioturbatio throughout. The presence of chert withir Section 1 and lower down within Section resulted in varying degrees of coring disturbance throughout much of core 3R.

Core Photo

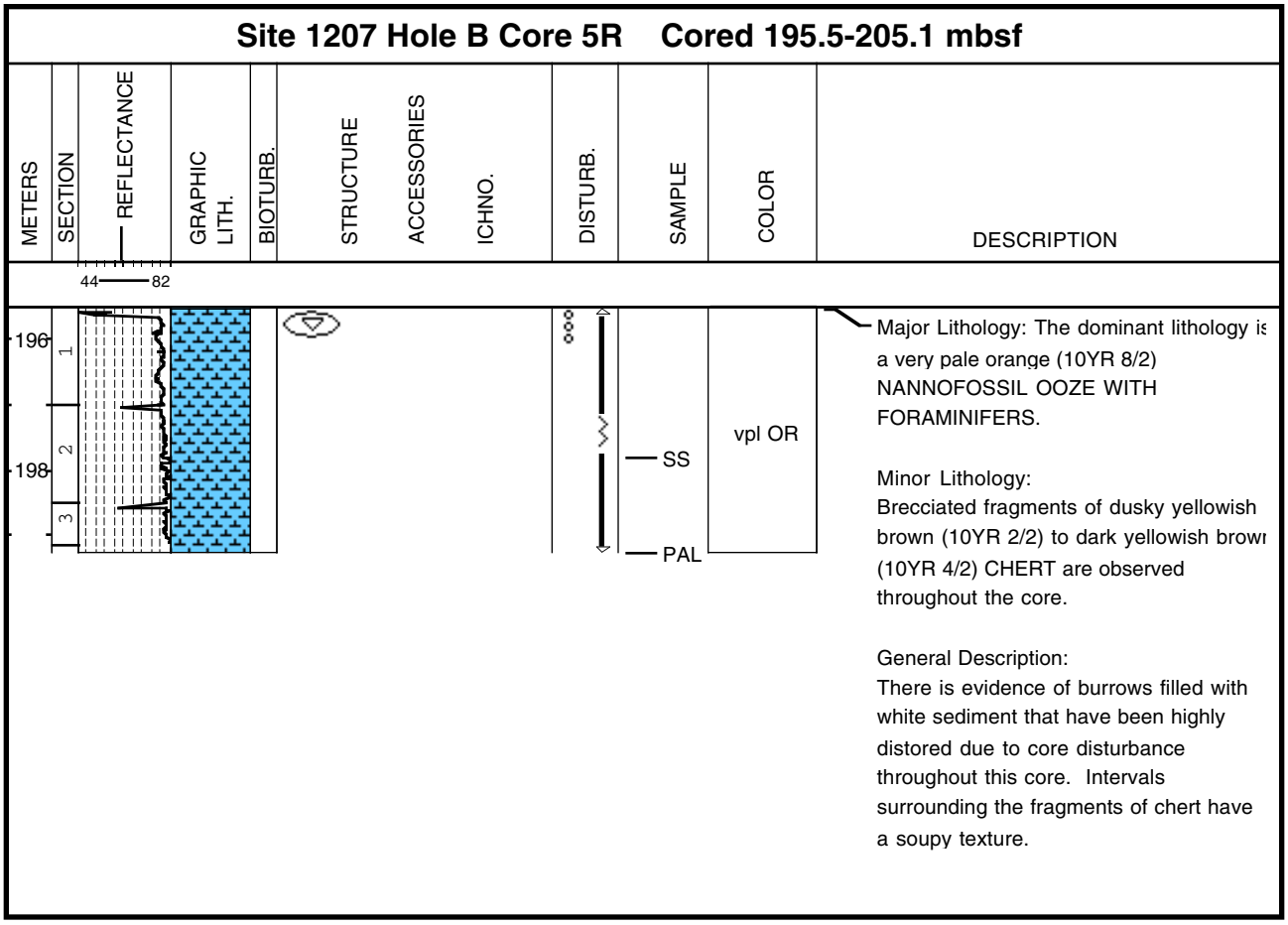

Site 1207 Hole B Core 3R Cored 176.2-185.8 mbsf
METERS
SECTION
REFLECTANCE
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
69
82
178
1
2
SS
PAL
vpl OR
Major Lithology:
The dominant lithology is a very pale orange (10YR 8/2) NANNOFOSSIL OOZE WITH INORGANIC CALCITE.
General Description:
Micrite rhombs comprise the inorganic calcite component of this ooze. The sediment is mildly mottled and bioturbate throughout with some white (N8) burrow fill evident.

Core Photo

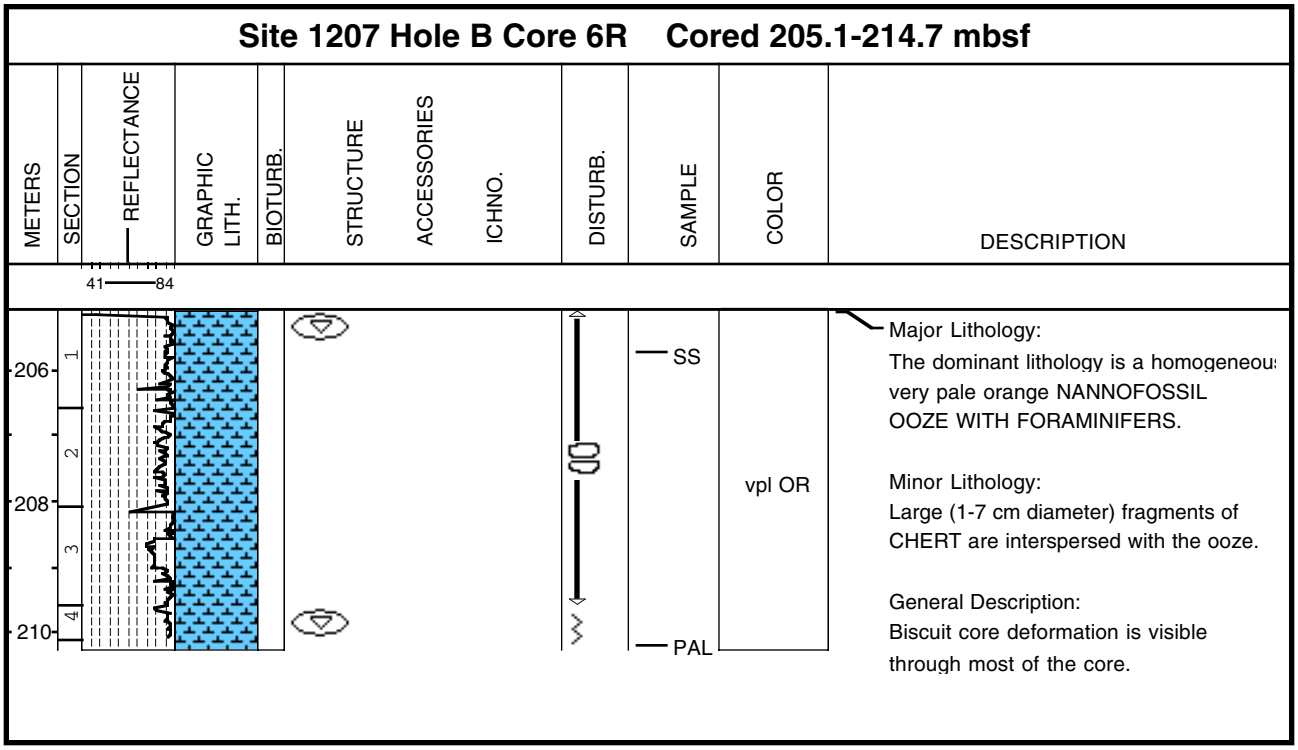
Site 1207 Hole B Core 4R Cored 185.8-195.5 mbsf



Core Photo

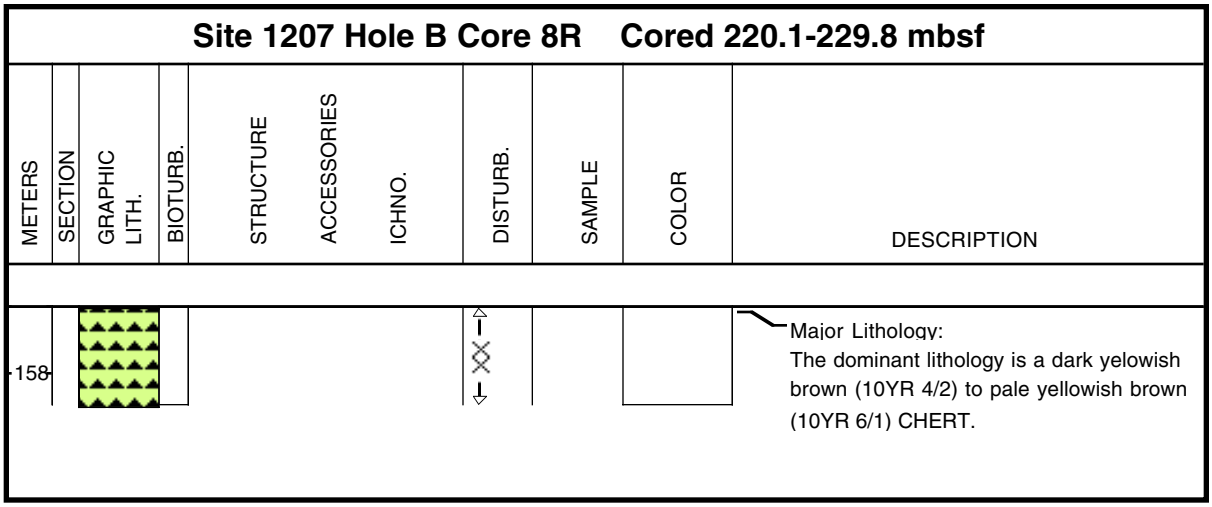

Site 1207 Hole B Core 5R Cored 195.5-205.1 mbsf
METERS
SECTION
REFLECTANCE
44
82
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
196
198
1
2
3
SS
PAL
vpl OR
Major Lithology: The dominant lithology is a very pale orange (10YR 8/2) NANNOFOSSIL OOZE WITH FORAMINIFERS.
Minor Lithology:
Brecciated fragments of dusky yellowish brown (10YR 2/2) to dark yellowish brown (10YR 4/2) CHERT are observed throughout the core.
General Description:
There is evidence of burrows filled with white sediment that have been highly distored due to core disturbance throughout this core. Intervals surrounding the fragments of chert have a soupy texture.

Core Photo



1207B-7R NO RECOVERY

Core Photo


Site 1207 Hole B Core 8R Cored 220.1-229.8 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
158
Major Lithology:
The dominant lithology is a dark yelowish brown (10YR 4/2) to pale yellowish brown (10YR 6/1) CHERT.

Core Photo

Site 1207 Hole B Core 9R Cored 229.8-239.4 mbsf

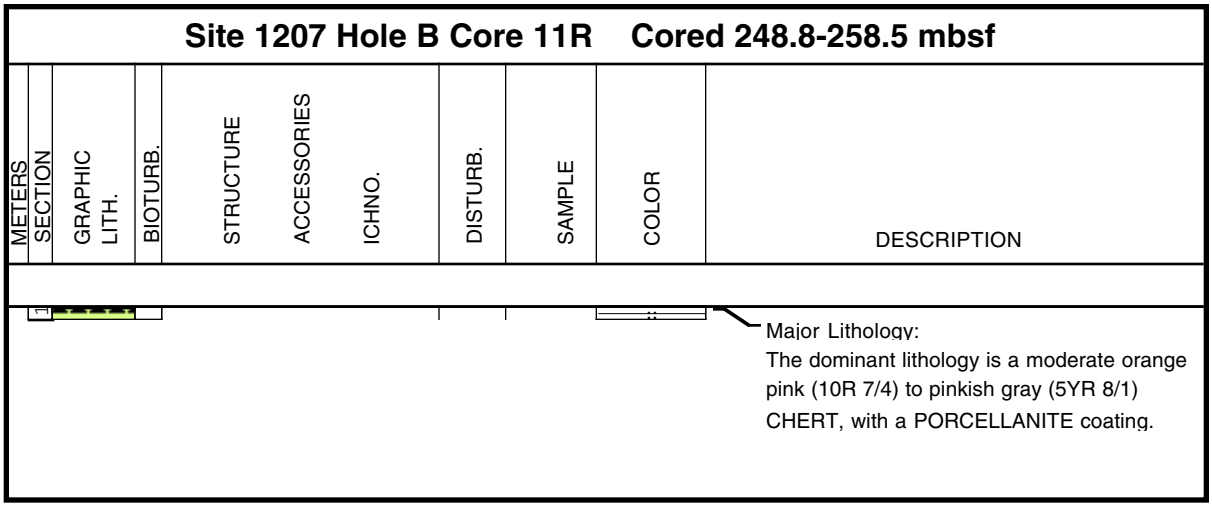
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
	1									Major Lithology: The dominant lithology is a very pale orange (10YR 8/2) NANNOFOSSIL OOZE. Minor Lithology: This core contains fragments of dusky yellowish brown (10YR 2/2) to dark yellowish brown (10YR 4/2) CHERT throughout. General Description: The sediment was intensely homogenized by drilling and has a soupy texture.

Core Photo

Site 1207 Hole B Core 10R Cored 239.4-248.8 mbsf

METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
	1									Major Lithology: The dominant lithology is a moderate orange pink (10R 7/4) to pinkish gray (5YR 8/1), heterogeneous CHERT.

Core Photo

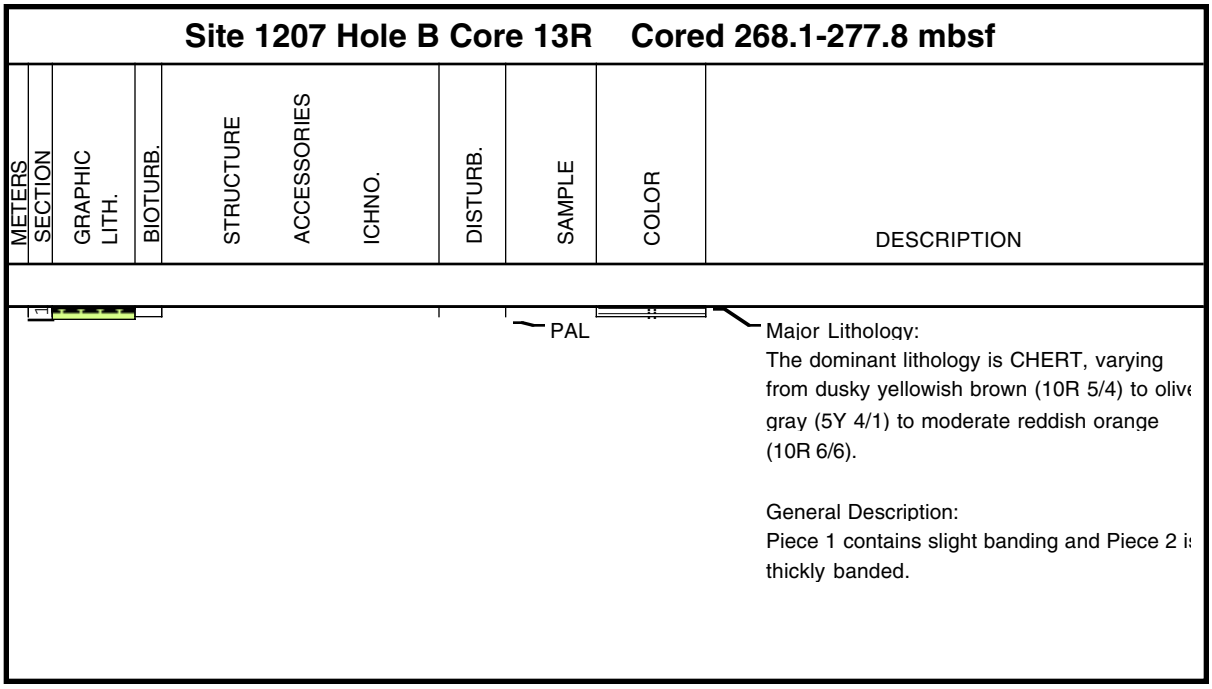

Site 1207 Hole B Core 11R Cored 248.8-258.5 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
1
Major Lithology:
The dominant lithology is a moderate orange pink (10R 7/4) to pinkish gray (5YR 8/1) CHERT, with a PORCELLANITE coating.

Core Photo

Site 1207 Hole B Core 12R Cored 258.5-268.1 mbsf

METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
								PAL		Major Lithology: The dominant lithology is dark yellowish brown (10YR 4/2), pale reddish brown (10R 5/4), and light gray (N2) CHERT. Minor Lithology: Some of the chert in this core contain small inclusions of PORCELLENITE.

Core Photo

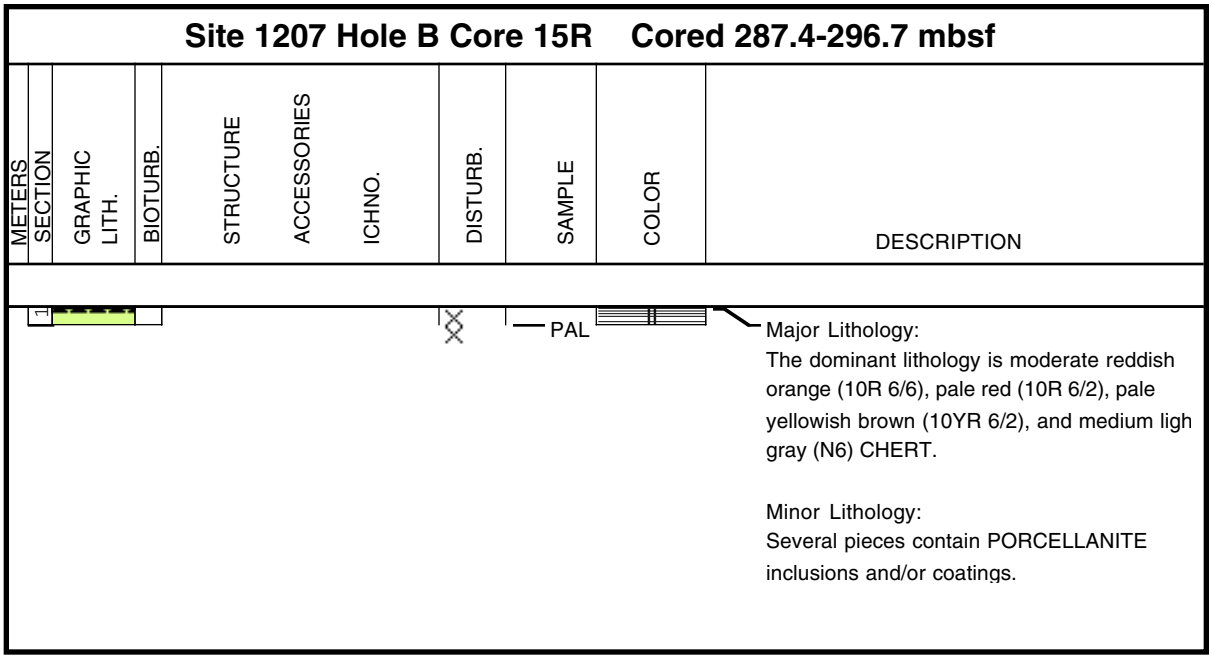

Site 1207 Hole B Core 13R Cored 268.1-277.8 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
PAL
Major Lithology:
The dominant lithology is CHERT, varying from dusky yellowish brown (10R 5/4) to olive gray (5Y 4/1) to moderate reddish orange (10R 6/6).
General Description:
Piece 1 contains slight banding and Piece 2 is thickly banded.

Core Photo

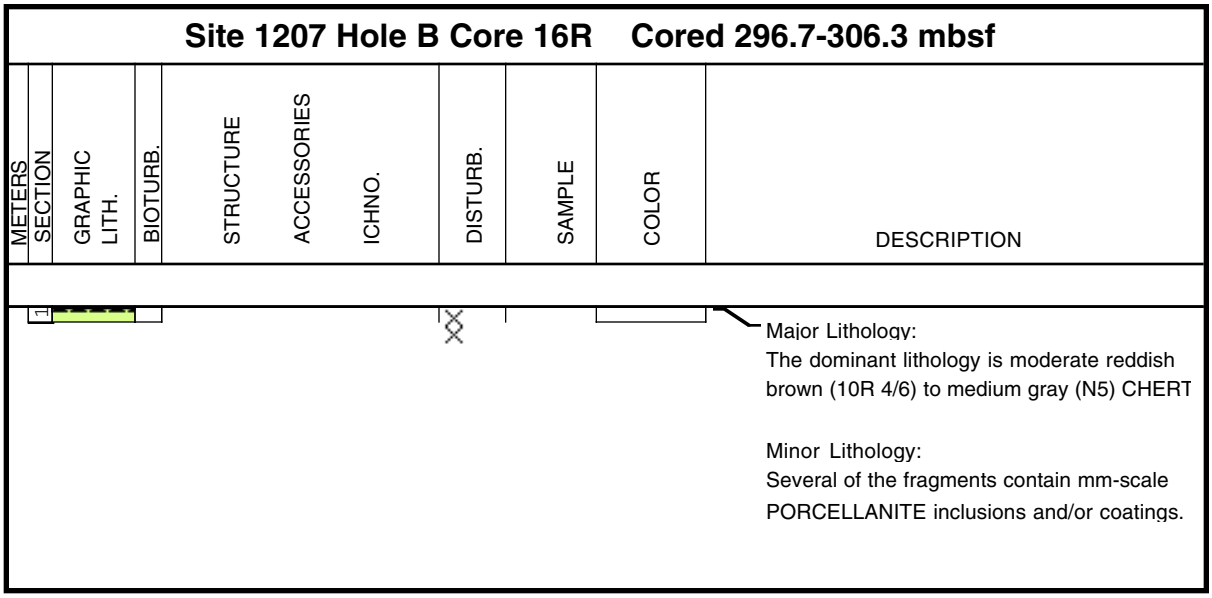
Site 1207 Hole B Core 14R Cored 277.8-287.4 mbsf

METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
								PAL		Major Lithology: The dominant lithology is CHERT varying from pale reddish brown (10R 5/4) to moderate reddish orange (10R 6/6), light olive gray (5Y 6/1), and light gray (N7). Minor Lithology: Several pieces contain PORCELLANITE inclusions and/or coatings.

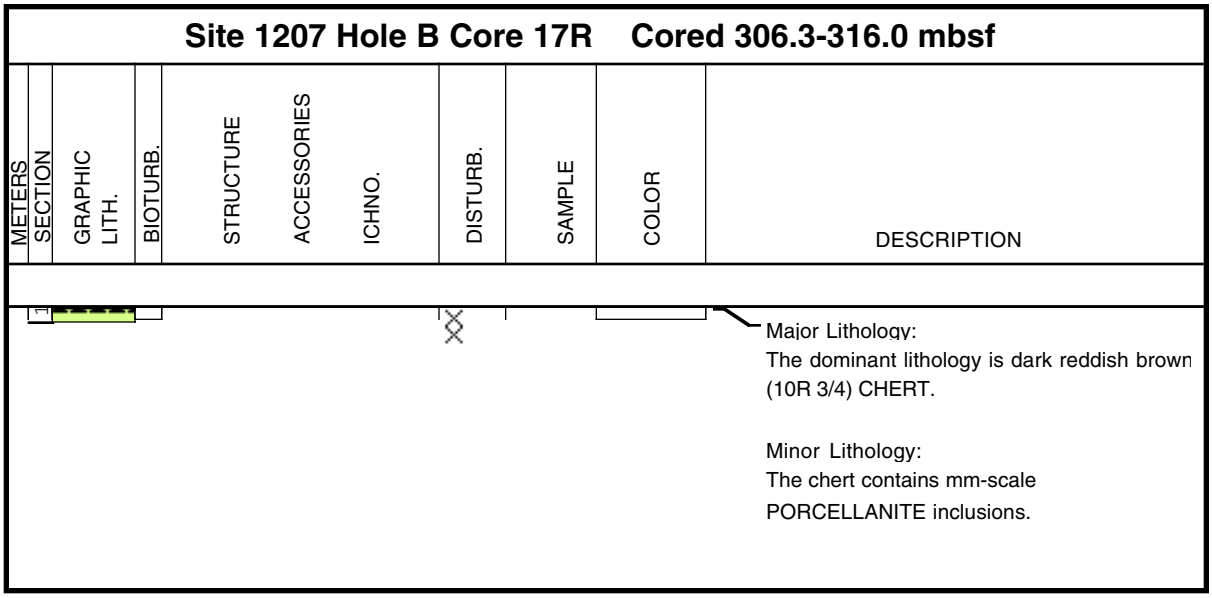
Core Photo


Site 1207 Hole B Core 15R Cored 287.4-296.7 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
1
PAL
Major Lithology:
The dominant lithology is moderate reddish orange (10R 6/6), pale red (10R 6/2), pale yellowish brown (10YR 6/2), and medium ligh gray (N6) CHERT.
Minor Lithology:
Several pieces contain PORCELLANITE inclusions and/or coatings.

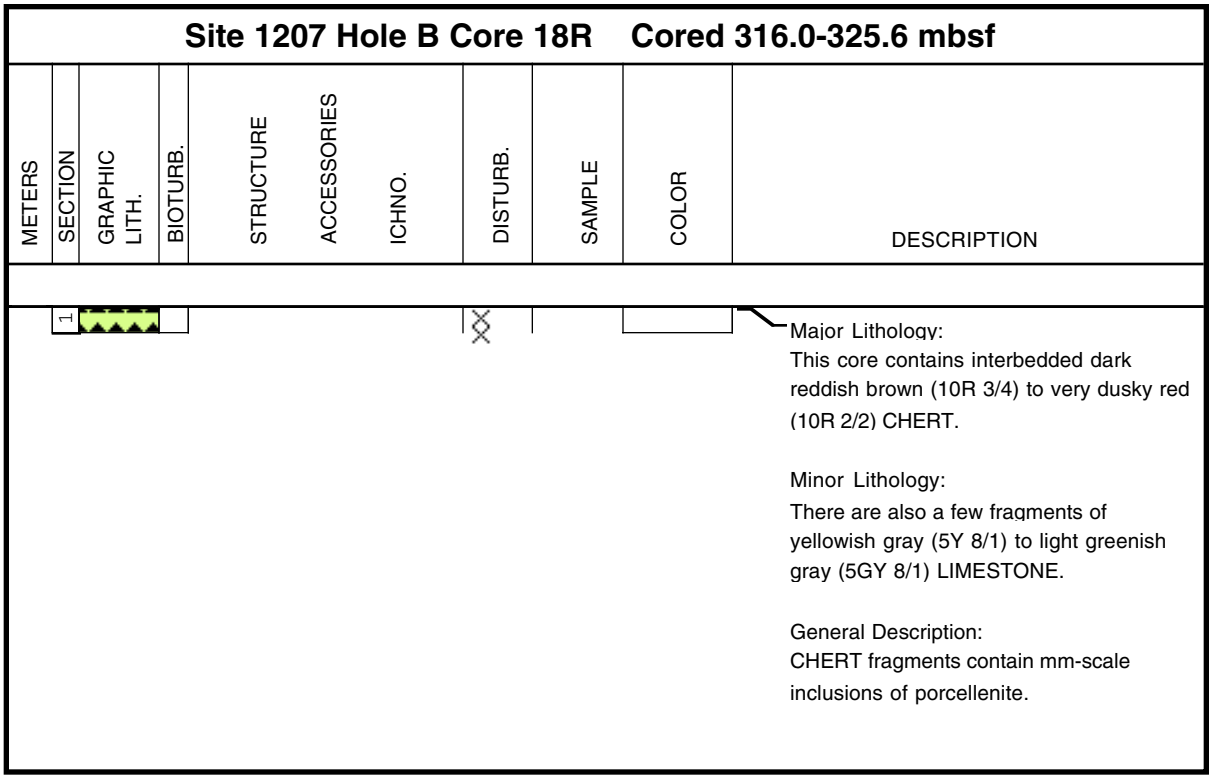
Core Photo


Site 1207 Hole B Core 16R Cored 296.7-306.3 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
1
Major Lithology:
The dominant lithology is moderate reddish brown (10R 4/6) to medium gray (N5) CHERT
Minor Lithology:
Several of the fragments contain mm-scale PORCELLANITE inclusions and/or coatings.

Core Photo


Site 1207 Hole B Core 17R Cored 306.3-316.0 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
1
Major Lithology:
The dominant lithology is dark reddish brown (10R 3/4) CHERT.
Minor Lithology:
The chert contains mm-scale PORCELLANITE inclusions.

Core Photo


Site 1207 Hole B Core 18R Cored 316.0-325.6 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
1
Major Lithology:
This core contains interbedded dark reddish brown (10R 3/4) to very dusky red (10R 2/2) CHERT.
Minor Lithology:
There are also a few fragments of yellowish gray (5Y 8/1) to light greenish gray (5GY 8/1) LIMESTONE.
General Description:
CHERT fragments contain mm-scale inclusions of porcellenite.

Core Photo

Site 1207 Hole B Core 19R Cored 325.6-335.3 mbsf

METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
								PAL		Major Lithology: The dominant lithology is CHERT varying from moderate gray (N5) to light gray (N7), and olive gray(5Y 4/1). Minor Lithology: Several pieces contain white to very light gray colored PORCELLANITE inclusions or coatings.

Core Photo

Site 1207 Hole B Core 20R Cored 335.3-344.9 mbsf

METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION

Major lithology:
The core consists of fragments of CHERT, 5 cm and less in diameter. The fragments range in color from dark gray (N3) to medium gray (N4) to pale yellowish brown (10YR 6/2) to moderate brown (5YR 8/4).

Minor Lithology:
Most fragments exhibit circular to irregular white (N9) to very light gray (N8) patches and coatings of PORCELLANITE.

General Description:
The patches in a pale yellowish brown fragment are moderate orange pink (5YR 8/4). Color variations outline vague burrow structures.

Core Photo

Site 1207 Hole B Core 21R Cored 344.9-354.5 mbsf

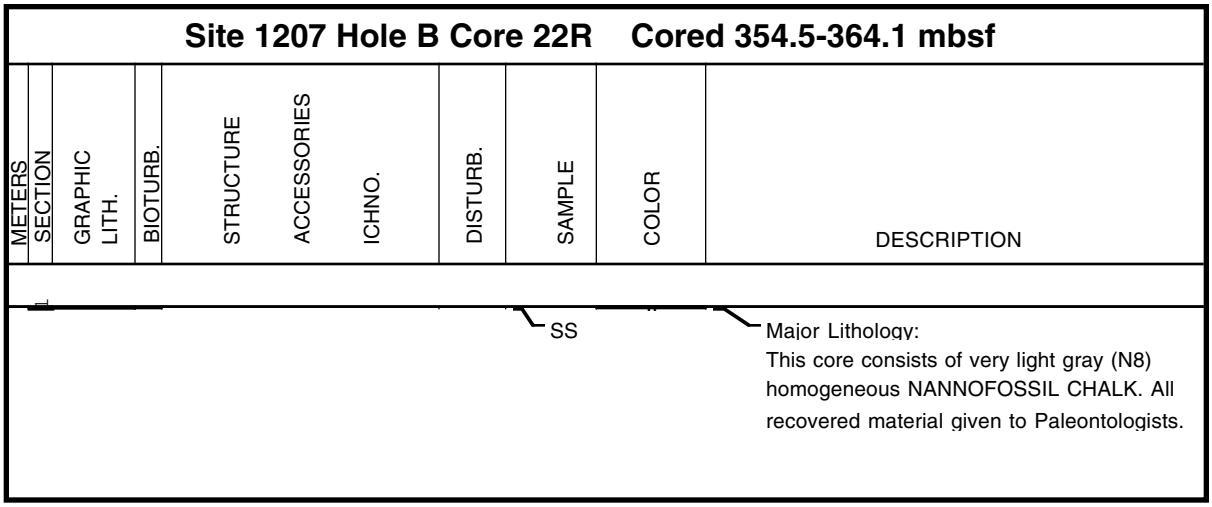
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION

Major Lithology:
The core consists of fragments of CHERT, 6 cm and less in diameter. The fragments are dominantly dark gray (N3) to olive gray (5Y 4/1) to moderate yellowish brown (10 YR 5/4) in color, with one small fragment of moderate brown(5YR 3/4) chert.

Minor Lithology:
Most fragments of chert exhibit circular to oblate to irregular white (N9) to very light gray (N8) patches of PORCELLANITE. Some exhibit white (N9) to very light gray (N8) thin discontinuous coatings PORCELLANITE.

General Description:
Color variations outline vague burrow structures in some fragments.

Core Photo



A core photo was not taken for 1207B-22R.

Core Photo

Site 1207 Hole B Core 23R Cored 364.1-373.7 mbsf

METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION

Major Lithology:
Core consists of fragments of CHERT, 5 cm and less in diameter. The fragments are dominantly dark yellowish brown (10YR 4/2) in color, with one fragment of medium dark gray (N4) chert.

Minor Lithology:
Discontinous coatings and inclusions in the chert are PORCELLANITE.

General Description:
All fragments exhibit light gray (N6) to very light gray (N8) mottling. The latter color is characteristic of the discontinuous coatings on the fragments. These coatings are irregular and appear to be coalesced circular patches.

Core Photo

Site 1207 Hole B Core 24R Cored 373.7-383.3 mbsf

METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
	1							SS		Major Lithology: Core consists of fragments of CHERT, 5 cm and less in diameter. Fragments are grayish brown (5YR 3/2). Minor Lithology: The fragments have very light gray (N8) PORCELLANITE coatings. Small burrows are common and filled with very light gray PORCELLANITE.

Core Photo

Site 1207 Hole B Core 25R Cored 383.3-392.9 mbsf

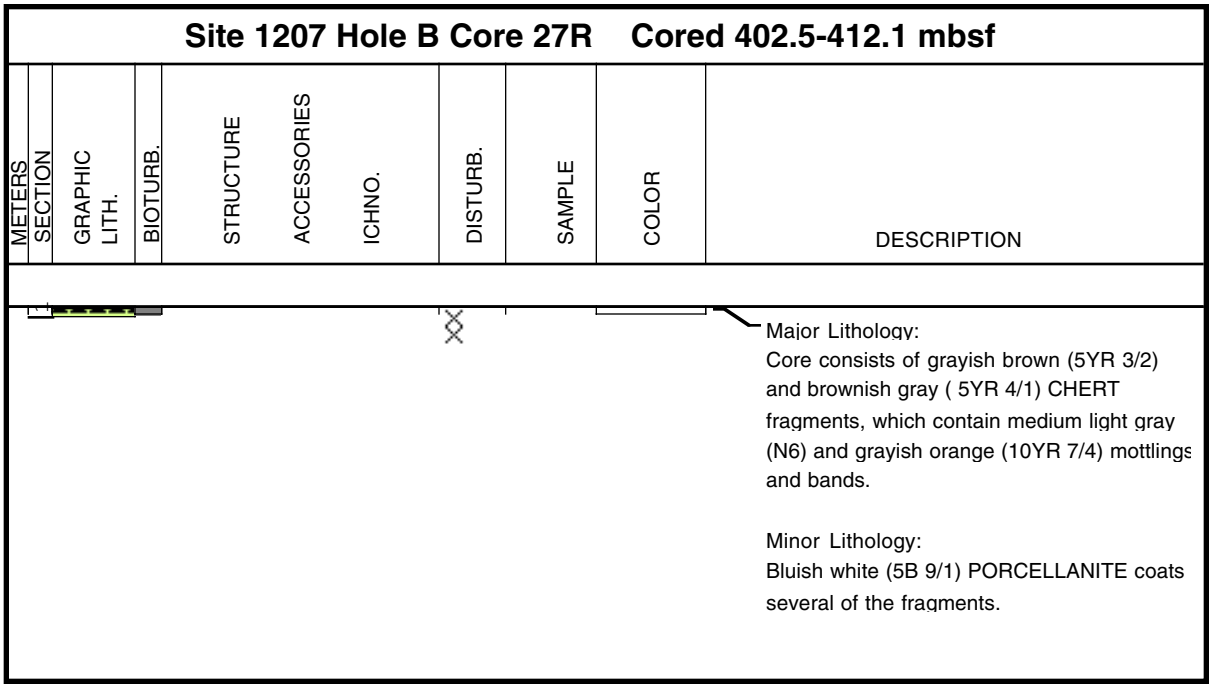
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
	1									Major Lithology: Core consists of fragments of CHERT, 5 cm and less in diameter. Fragments are grayish brown (5YR 3/2). Minor Lithology: Fragments had very light gray (N8) PORCELLANITE coatings. Small burrows are common and filled with very light gray PORCELLANITE. General Description: Some chert fragments are variegated.

Core Photo

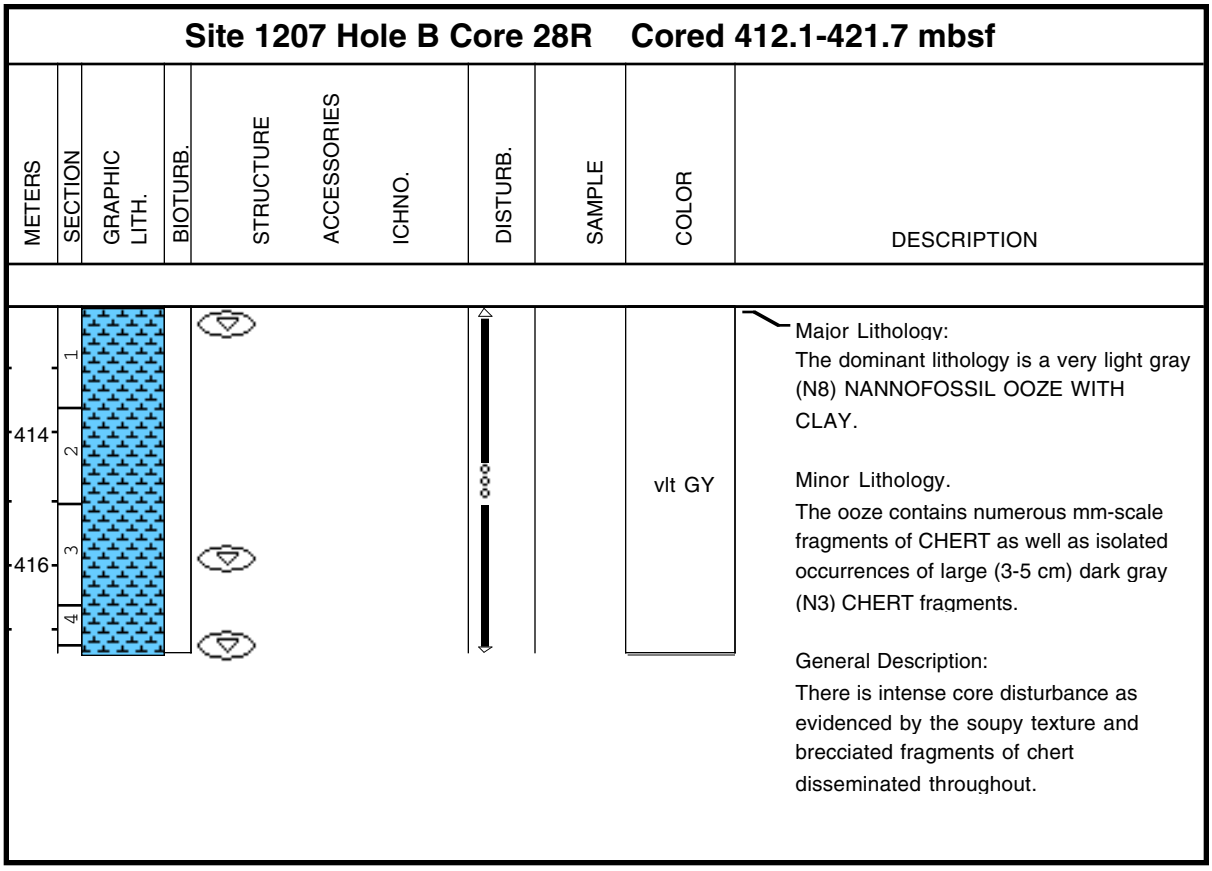
Site 1207 Hole B Core 26R Cored 392.9-402.5 mbsf

METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
	1									Major Lithology: Core consists of fragments of CHERT, 5 cm and less in diameter. Fragments vary in color, from dark yellowish brown (10YR 4/2) and grayish brown (5YR 3/2) to medium dark gray (N5). Minor Lithology: One fragment exhibits a bluish white (5B 9/1) PORCELLANITE coating and burrow fillings of bluish white (5B 9/1) CHALK. General Description: All fragments show mottling of pale red (10R 6/2), grayish orange (10YR 7/4), grayish brown (5YR 3/2) and light olive gray(5Y 5/2).

Core Photo


Site 1207 Hole B Core 27R Cored 402.5-412.1 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
Major Lithology:
Core consists of grayish brown (5YR 3/2) and brownish gray (5YR 4/1) CHERT fragments, which contain medium light gray (N6) and grayish orange (10YR 7/4) mottlings and bands.
Minor Lithology:
Bluish white (5B 9/1) PORCELLANITE coats several of the fragments.

Core Photo


Site 1207 Hole B Core 28R Cored 412.1-421.7 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
414
416
1
2
3
4
vlt GY
Major Lithology:
The dominant lithology is a very light gray (N8) NANNOFOSSIL OOZE WITH CLAY.
Minor Lithology.
The ooze contains numerous mm-scale fragments of CHERT as well as isolated occurrences of large (3-5 cm) dark gray (N3) CHERT fragments.
General Description:
There is intense core disturbance as evidenced by the soupy texture and brecciated fragments of chert disseminated throughout.

Core Photo

Site 1207 Hole B Core 29R Cored 421.7-431.3 mbsf

METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
422	1									

Major Lithology:
Core consists of fragments of brownish gray (5YR 4/1) to medium dark gray (N4) to dark gray (N3) CHERT, 5 cm and less in diameter.

General Description:
There is evidence of burrows filled with white (N9) chalk and very light gray (N8) chert. The diameter of burrows are dominantly 3 mm.

Core Photo

Site 1207 Hole B Core 30R Cored 431.3-440.5 mbsf

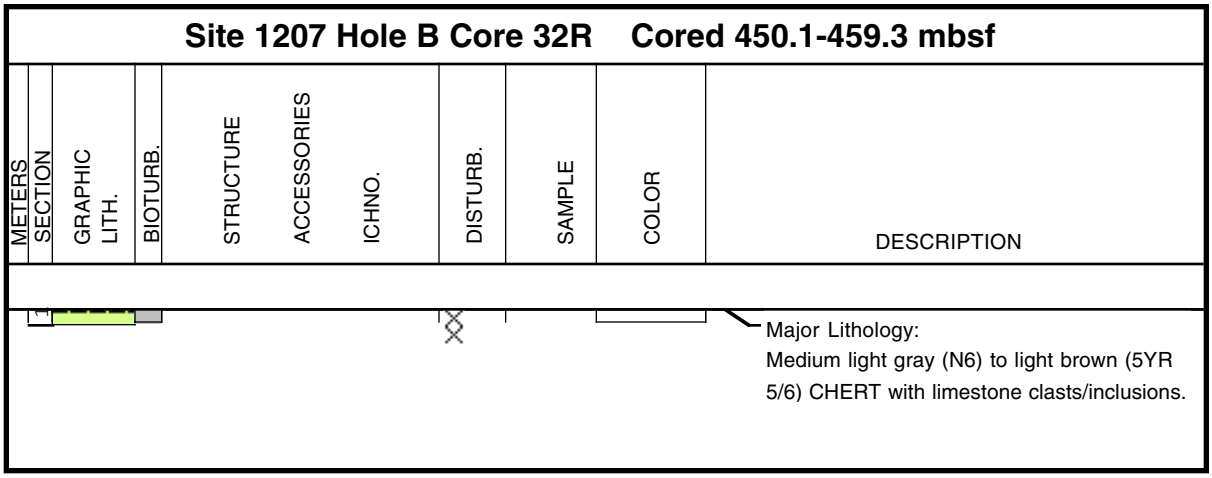
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
	1									Major Lithology: Core consists of dark yellowish brown (10YF 4/2) to pale yellowish brown (10YR 6/2) to light gray (N7) fragments of CHERT, 6 cm and less in diameter. General Description: There is evidence of burrows filled with white (N1), bluish white (5B 9/1), and very pale orange (10YR 8/2) CHALK. The burrows are 1-3 mm in diameter.

Core Photo

Site 1207 Hole B Core 31R Cored 440.5-450.1 mbsf

METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
	1									Major Lithology: Core consists of CHERT, 5 cm and less in diameter. Minor Lithology: White (N9) CHALK occurs within burrows in CHERT fragments. General Description: The CHERT fragments with range in color from dark yellowish brown (10YR 4/2) to grayish black (N2) to brownish gray (5YR 4/1) to light olive gray (5Y 6/1) to moderate yellowish brown (10YR 5/4) to moderate brown (5YR 3/4) to medium light gray (N6). The CHERT fragments are burrowed and streaked.

Core Photo


Site 1207 Hole B Core 32R Cored 450.1-459.3 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
1
Major Lithology:
Medium light gray (N6) to light brown (5YR 5/6) CHERT with limestone clasts/inclusions.

Core Photo

Site 1207 Hole B Core 33R Cored 459.3-469.0 mbsf

METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
460	1									Major Lithology: Core consists of CHERT, 5 cm and less in diameter, ranging in color from moderate reddish brown (10R 4/6) to moderate yellowish brown (5YR 3/4) to olive gray (5Y 3/2) to moderate brown (5YR 3/4). General Description: There are tubular burrows in CHERT fragments. The burrows are 1 -3 mm in diameter, and are filled with moderate red (5R 5/4) to light brown (5YR 6/4) CHALK. A thin, grayish black (N2) layer occurs at 76 cm.

Core Photo

Site 1207 Hole B Core 34R Cored 469.0-478.6 mbsf

METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
	1									Major Lithology: The dominant lithology is a dark reddish brown (10R 3/4) CHERT. Minor Lithology: Inclusions of mm-scale PORCELLANITE rare silica-filled fractures are found within the CHERT fragments.

Core Photo

Site 1207 Hole B Core 35R Cored 478.6-488.2 mbsf

METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
	1									Major Lithology: The dominant lithology is a dark reddish brown (10R 3/4) CHERT. Minor Lithology: PORCELLANITE occurs as mm-scale inclusions and coatings within and on the CHERT.

Core Photo

Site 1207 Hole B Core 36R Cored 488.2-497.8 mbsf

METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION

Major Lithology:
The dominant lithology is CHERT, varying from moderate brown (5YR 3/4) to dark reddish brown (10R 3/4), medium dark gray (N4) and grayish green (10G 4/2).

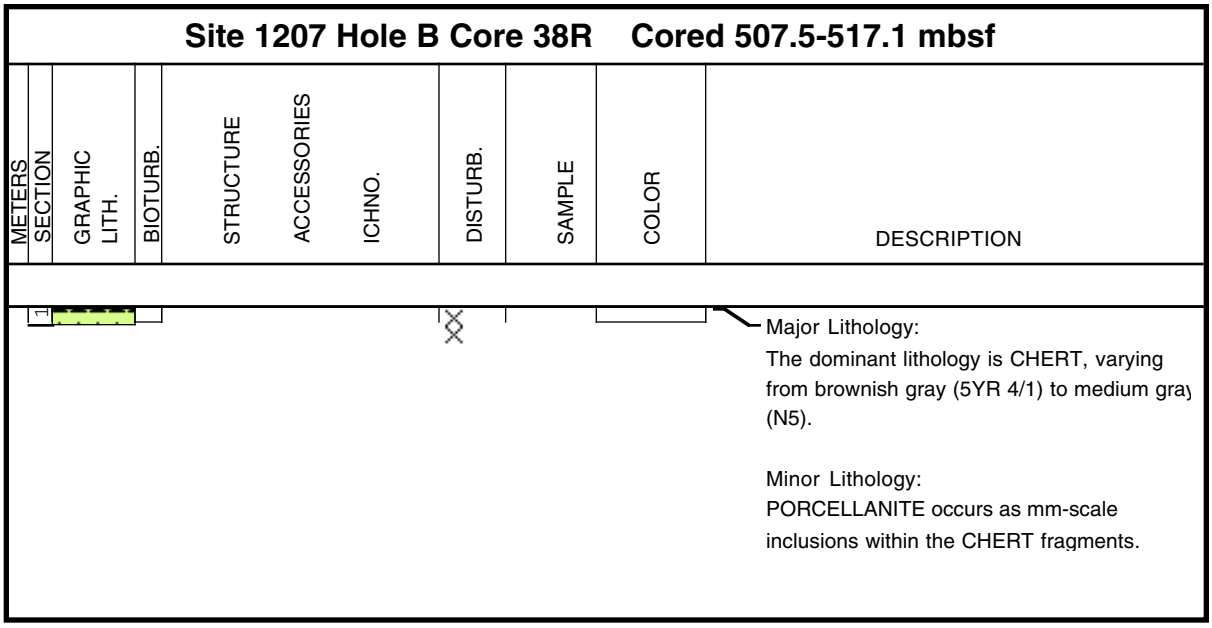
Minor Lithology:
PORCELLANITE occurs as inclusions within the CHERT fragments.

Core Photo

Site 1207 Hole B Core 37R Cored 497.8-507.5 mbsf

METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
	1									Major Lithology: The dominant lithology is CHERT, varying in color from moderate brown (5YR 3/4) to brownish gray (5YR 4/1), dark greenish gray (5YG 4/1) and olive gray (5Y 4/1). Minor Lithology: LIMESTONE occurs as burrow fill in the CHERT fragments. General Description: There are tubular burrows (1-4 mm in diameter) filled with LIMESTONE. A dusky blue (5PB 3/2) concretion with a center of moderate brown (5YR 4/4) CHERT occurs at 22-24 cm.

Core Photo


Site 1207 Hole B Core 38R Cored 507.5-517.1 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
1
Major Lithology:
The dominant lithology is CHERT, varying from brownish gray (5YR 4/1) to medium gra
(N5).
Minor Lithology:
PORCELLANITE occurs as mm-scale inclusions within the CHERT fragments.

Core Photo

Site 1207 Hole B Core 39R Cored 517.1-526.5 mbsf

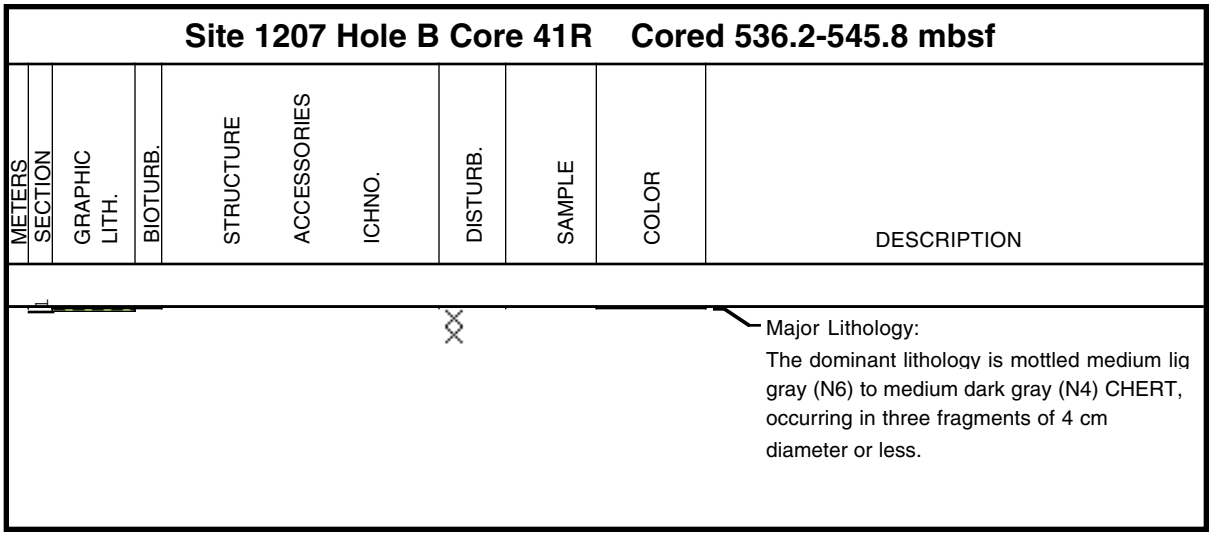
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
	1									Major Lithology: The core consists of medium dark gray (N4) to very light gray (N8) CHERT fragments up to 7 cm in diameter. Minor Lithology: PORCELLANITE occurs as partial coatings and patches on the CHERT fragments. General Description: One large fragment is mottled moderate brown (5YR 3/2) to pale brown (5YR 5/2) to grayish orange pink (5YR 7/2) in color.

Core Photo

Site 1207 Hole B Core 40R Cored 526.5-536.2 mbsf

METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
	1							PAL SS SS	..	Major Lithology: Core consists of alternating intervals of medium dark gray (N4) to medium light gray (N6) CHERT and light gray (N7) to greenish gray (5GY 6/1) NANNOFOSSIL LIMESTONE WITH FORAMINIFERS. Minor Lithology: Grayish green (10G 5/2) PORCELLANITE occurs as coatings on the thin, cm-thick layers of CHERT. General Description: Foraminifers within the NANNOFOSSIL LIMESTONE are partially infilled by pyrite and microcrystalline quartz. Both CHERT and LIMESTONE are slightly burrowed.

Core Photo


Site 1207 Hole B Core 41R Cored 536.2-545.8 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
1
Major Lithology:
The dominant lithology is mottled medium lig gray (N6) to medium dark gray (N4) CHERT, occurring in three fragments of 4 cm diameter or less.

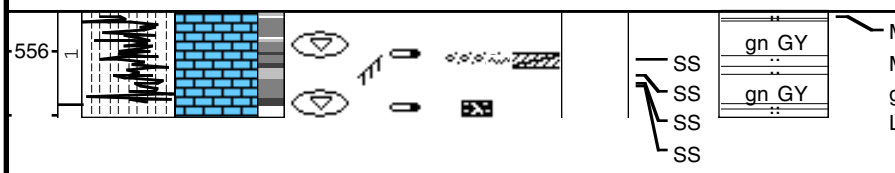
Core Photo

Site 1207 Hole B Core 42R Cored 545.8-555.4 mbsf

METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
	1							SS		Major Lithology: CHERT and NANNOFOSSIL LIMESTONE WITH CLAY. General Description: Core consists of alternating intervals of medium light gray CHERT (N6), dark gray CHERT (N3), medium brown CHERT (N3) and light gray (N7) to pale olive NANNOFOSSIL LIMESTONE WITH CLAY (10Y 6/2). The LIMESTONE is finely laminated. Thin cm-thick layers of CHERT exhibit grayish green coatings similar to adjacent LIMESTONE. Forams within the CHALK are partly infilled by pyrite and microcrystalline quartz. Both CHERT and LIMESTONE are slightly burrowed.

Core Photo

Site 1207 Hole B Core 43R Cored 555.4-565.0 mbsf



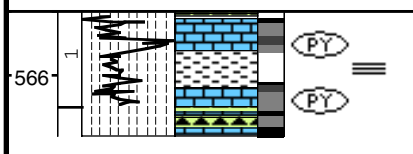
Major Lithology:
Major lithology is light greenish-dark greenish gray NANNOFOSSIL LIMESTONE WITH CLAY.

Minor Lithology:
ALTERED TUFFACEOUS CLAYSTONE.

General Description:
The limestone has interbeds of 2-5 cm thick current-winnowed radiolarian rich carbonate with sharp erosive basal contacts. In Section 1, at 42-50 cm, several small moderate reddish brown nodules of chert are present. A medium bluish gray granular bed, ALTERED TUFFACEOUS CLAYSTONE, with scoured base and reactivation scours is found in Section 1 (68-72 cm). Further down in Section 1, 87-90 cm, there is a scoured base, crossbedded with clay alternating with silt to fine sized grains. A partly silicified claystone lens is present in Section 1, at 95-96 cm, with syneresis cracks (?). A brownish gray chert nodule with light greenish gray lens is present at the end of Section 1. Moderate reddish brown chert rubble is present at the base of the CC.

Core Photo

Site 1207 Hole B Core 44R Cored 565.0-574.6 mbsf



Major Lithology:
Greenish gray (5G 6/1) LIMESTONE and dark yellowish brown (10YR 4/2), organic-carbon rich CLAYSTONE are the dominant lithologies in this core. The limestone has horizontal streaks and is highly bioturbated with flattened Planolites burrows of green, gray, and light yellow brown. The claystone is finely but faintly laminated throughout.

Minor Lithology: A light gray (N7) to medium dark gray (N4) CHERT occurs near the top of section 1 (0-9 cm) and in section 2.

Other:
Section 1
40-60 cm: light gray mottle; pyrite nodule (~ 0.5 cm) at 45 cm

60-114.5 cm: several burrows or lenses of silt between 62-71 cm and at 80-81 cm rubble of claystone between106.5-110 cr brecciated clast of claystone between 110-114.5 cm is burrowed on top and is separated from laminations on the bottom by a sharp contact (may be upside down

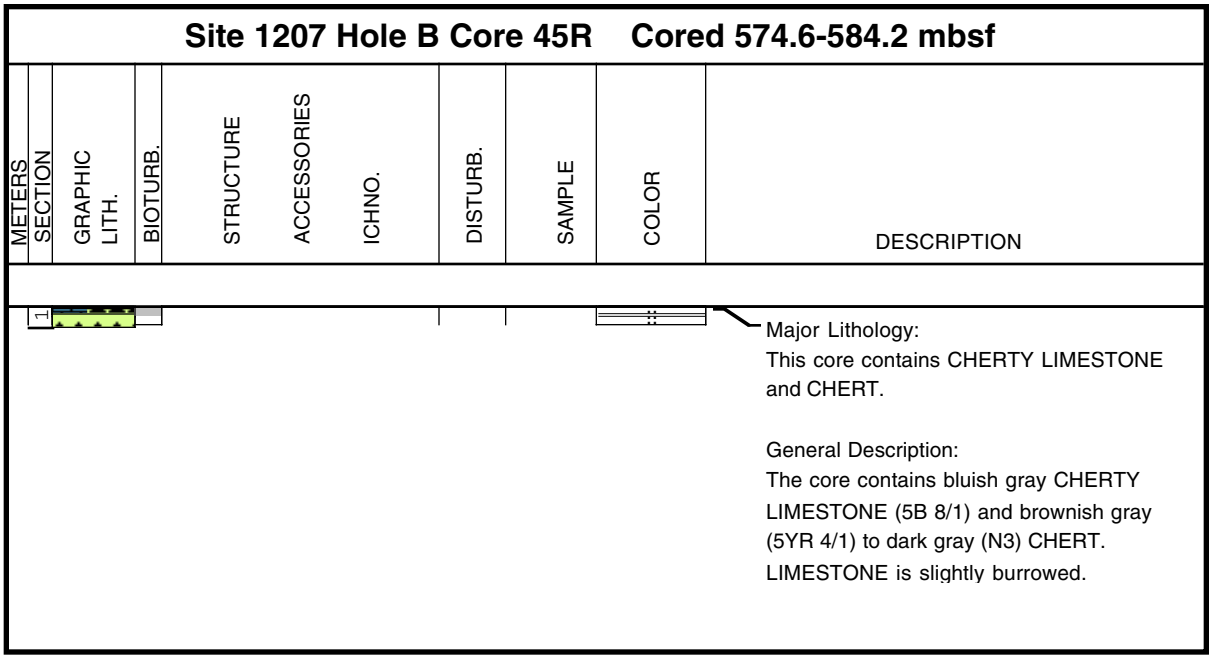
114.5-142.5 cm: pyrite nodule (~ 0.5 cm)

Section 2
14-21 cm: rare pyrite flecks; burrow fill is light gray

21-35 cm: brecciated clast of chert in the interval has a vug filled with mm-scale quartz crystals

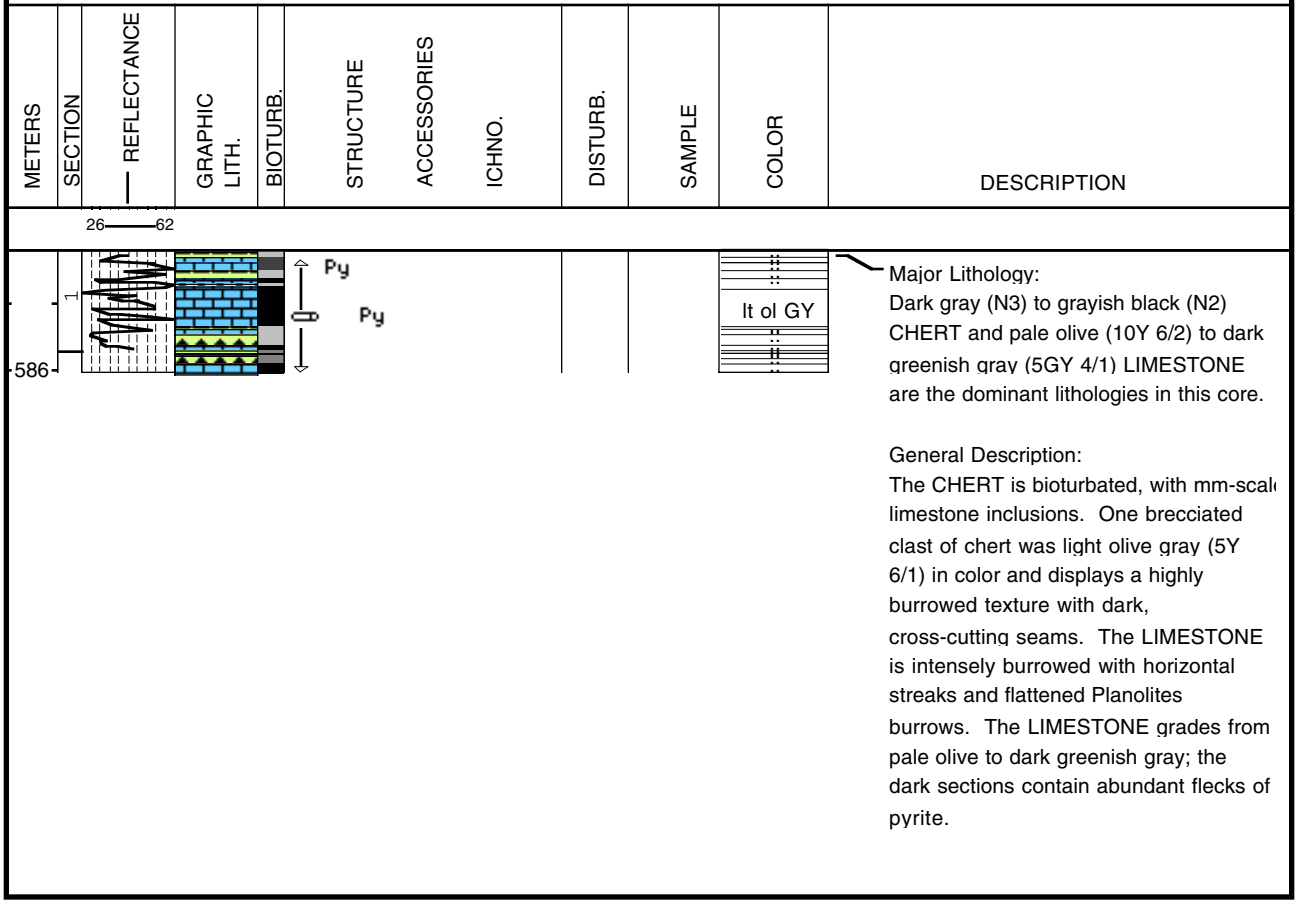
38-49 cm: limestone rubble; with dusky yellowish brown organic-rich chunks

Core Photo

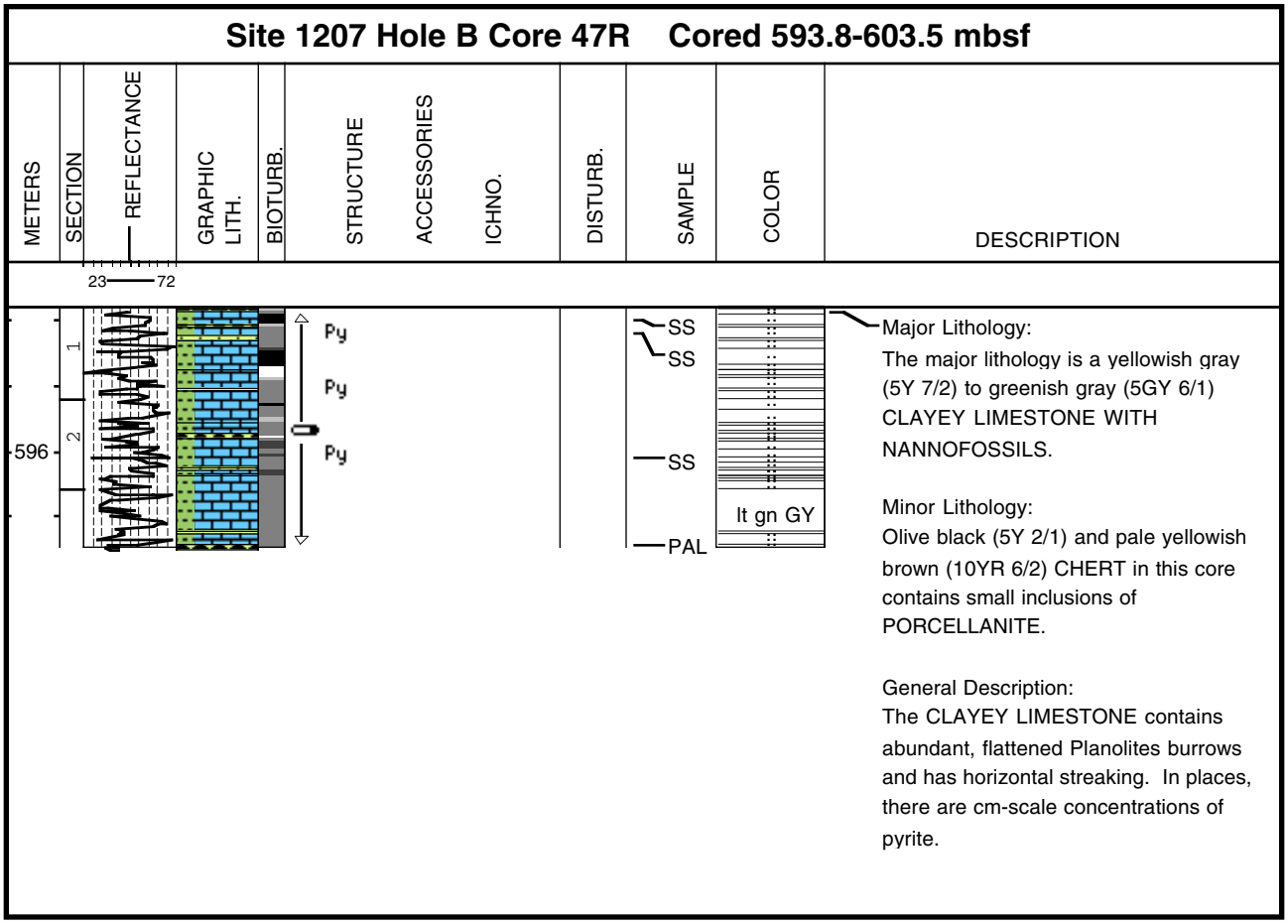

Site 1207 Hole B Core 45R Cored 574.6-584.2 mbsf
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
1
Major Lithology:
This core contains CHERTY LIMESTONE and CHERT.
General Description:
The core contains bluish gray CHERTY LIMESTONE (5B 8/1) and brownish gray (5YR 4/1) to dark gray (N3) CHERT. LIMESTONE is slightly burrowed.

Core Photo

Site 1207 Hole B Core 46R Cored 584.2-593.8 mbsf

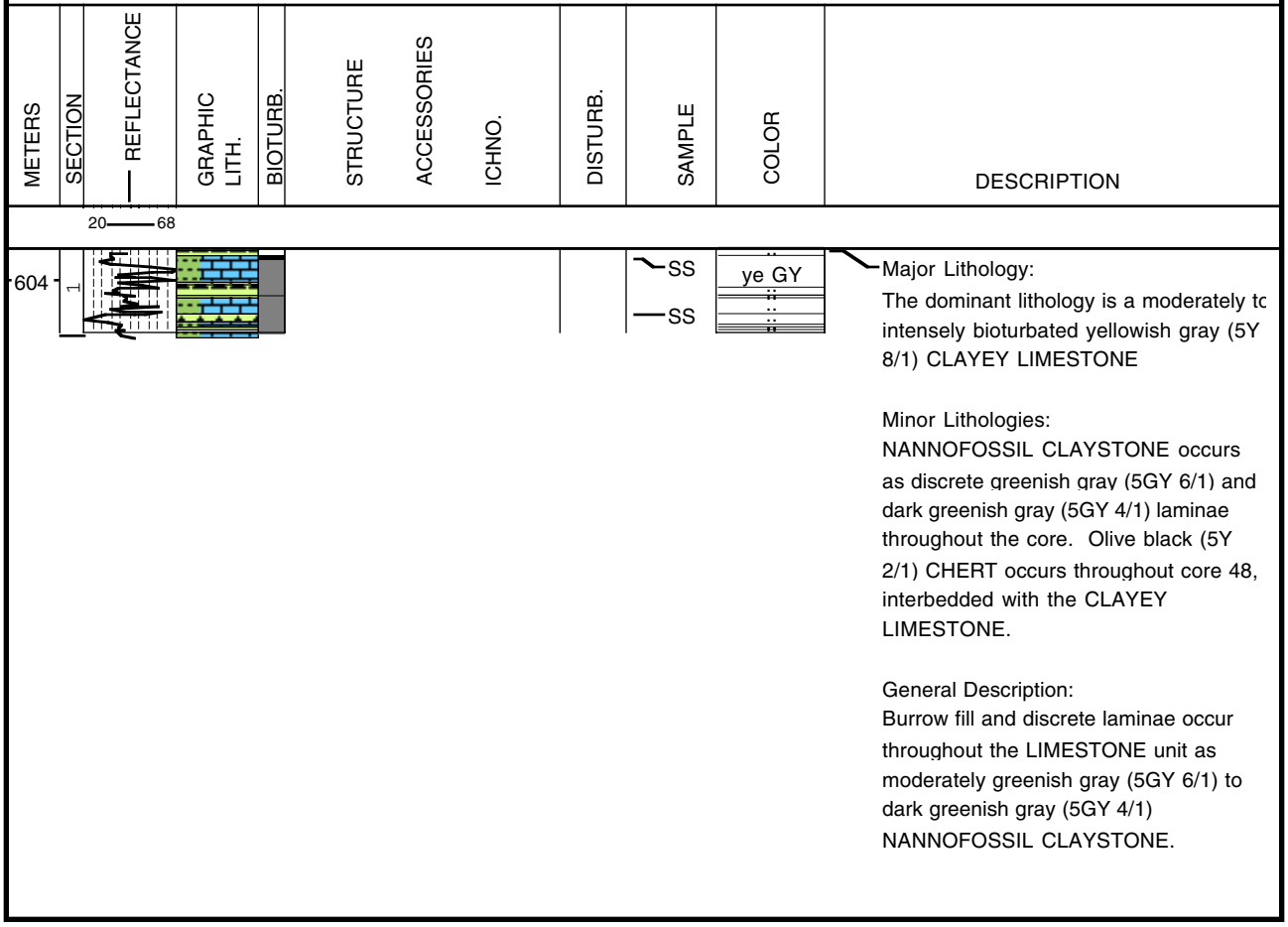


Core Photo

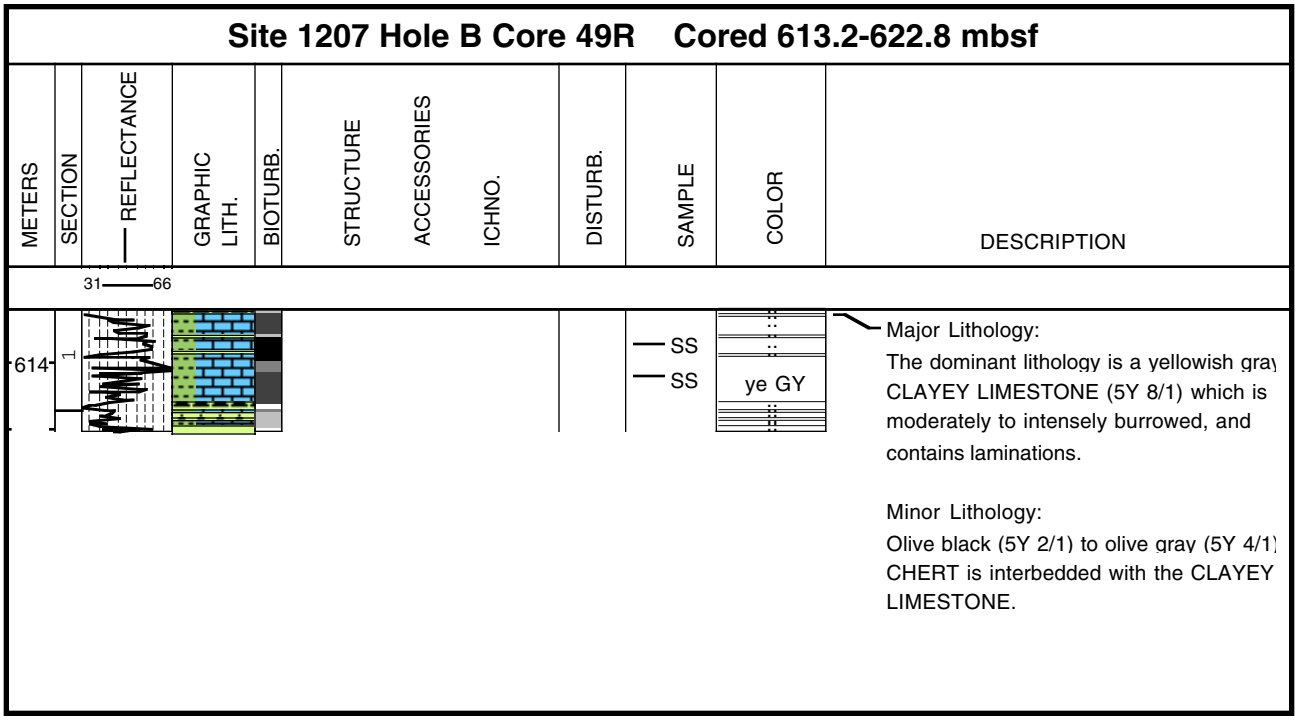

Site 1207 Hole B Core 47R Cored 593.8-603.5 mbsf
METERS
SECTION
REFLECTANCE
23
72
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
596
1
2
Py
Py
Py
SS
SS
SS
PAL
lt gn GY
Major Lithology:
The major lithology is a yellowish gray (5Y 7/2) to greenish gray (5GY 6/1) CLAYEY LIMESTONE WITH NANNOFOSSILS.
Minor Lithology:
Olive black (5Y 2/1) and pale yellowish brown (10YR 6/2) CHERT in this core contains small inclusions of PORCELLANITE.
General Description:
The CLAYEY LIMESTONE contains abundant, flattened Planolites burrows and has horizontal streaking. In places, there are cm-scale concentrations of pyrite.

Core Photo

Site 1207 Hole B Core 48R Cored 603.5-613.2 mbsf



Core Photo


Site 1207 Hole B Core 49R Cored 613.2-622.8 mbsf
METERS
SECTION
REFLECTANCE
31
66
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
DISTURB.
SAMPLE
COLOR
DESCRIPTION
614
1
SS
SS
ye GY
Major Lithology:
The dominant lithology is a yellowish gray
CLAYEY LIMESTONE (5Y 8/1) which is
moderately to intensely burrowed, and
contains laminations.
Minor Lithology:
Olive black (5Y 2/1) to olive gray (5Y 4/1)
CHERT is interbedded with the CLAYEY
LIMESTONE.

Smear Slides

Sample						Size			Mineral															Biogenic																						Rock				
Core	Core Type	Section	Top (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Apatite	Barite	Calcite	Carbonate	Chalcedony	Chert	Clay Mineral	Detrital Carbonate	Dolomite	Fe Oxide	Feldspar	Glauconite	Inorganic Calcite	Mica	Muscovite	Opaques	Organic Calcite	Oxides	Phillipsite	Plagioclase	Pyrite	Quartz	Volcanic Glass	Zeolite	Calcispheres	Diatoms	Dinoflagellate	Fish Remains	Foraminifers	Mollusk	Nannofossils	Pollen	Radiolarians	Silicoflagellates	Sponge Spicules	Bioclasts	Organic Debris	Cement	Fecal Pellet	Organic Debris	Organic Matter	Rock Fragment
Hole A																																																		
1	H	1	7	0.07	D										30			*																15			5		48		1	1								
1	H	1	111	1.11	D										5																1			15			10		66		1	2								
1	H	2	16	1.66	M													R											*		99																			
1	H	2	137	2.87	D						3				23			*	*												*			3			20		45		5	1								
1	H	3	67	3.67	D										20																*			33			7		40			*								
1	H	3	140	4.4	D						5				40																						3		50		*	1	*							
2	H	1	33	5.13	D										30																1			10			5		50		2		2							
2	H	1	44	5.24	D										35															1	1			3			10		45		3	1	1							
2	H	1	128	6.08	D										40															1	1			10			1		40		5	1	1							
2	H	2	33	6.63	D										30																			10			5		50		2		2							
2	H	2	67	6.97	D						1				21																3			5			8		62											
2	H	3	100	8.8	M										40							10							5		1			1			15		25		1	1								
2	H	4	99	10.29	M																			1							99																			
3	H	1	67	14.97	D										12														1					5			10		65		5	2								
3	H	1	97	15.27	M										50																			2			10		38											
3	H	2	126	17.06	M										25														25					6		1	10		30		2	1								
3	H	2	132	17.12	D										38																			5			5		50		2	0								
3	H	5	32	20.62	D										35																			10			3		40		8	4								
3	H	6	7	21.87	D										34																			10		1	5		40		5	5								
4	H	1	68	24.48	D										20																			10		1	10		50		7	1								
4	H	3	14	26.94	D										24																			5			15		50		5	1								
4	H	4	74	29.04	D										5																			2			8		70		8	5	2							
4	H	6	12	31.42	D										12																10			10			6		48		8	5	1							
5	H	1	34	33.64	D										30																			5			3		50		5	5	2							
5	H	2	2	34.82	M										9														1		90																			
5	H	2	126	36.06	D										20														1					5		1	15		54		2	1	1							
5	H	4	103	38.83	D										25																			5			5		60		3	1	1							
5	H	5	117	40.47	D										28														1		10			5			3		50		2	1								
6	H	2	66	44.96	D										29																			5			5		55		5	1								
6	H	3	55	46.35	D										29														1					7		1	10		45		7									
6	H	6	103	51.33	D										32																			10			5		50		2	1								
7	H	1	7	52.37	D						1				21									*							*			15			5		53		3	2	*							
7	H	3	72	56.02	D										10																			10			1		78		*	1								
7	H	5	31	58.61	M										17																*			15			5		56		5	*	2			*				
8	H	2	75	64.05	D										10									1										5			5		75		2	*	2							
8	H	5	96	68.76	M										10									1							35			25			3		20		5		1							
9	H	2	48	73.28	D										19																1			10					54		12	4								
9	H	2	82	73.62	D										21															1	1			15					45		12	5								
9	H	3	53	74.83	D										25																5			20					35		10	5								
9	H	3	82	75.12	D										15																2			20					43		15	5								
10	H	1	17	80.97	D										15																			20			5		50		5	5								
10	H	2	35	82.65	D										20																			5			2		70		2	1								
10	H	2	93	83.23	D										17																			5			3		60		10	5								
10	H	5	97	87.77	D										23																10			1		*	5		60		1									
11	H	3	23	93.53	D										38																5			5					46		5	1								
11	H	3	67	93.97	D										25																			10					40		20	5								
11	H	5	99	97.29	D										2																			10			2		80		5	1								
11	H	6	54	98.34	D										14																			5			5		70		5	1								

Smear Slides

Sample						Size			Mineral															Biogenic																						Rock				
Core	**Core Type**	**Section**	**Top (cm)**	**Depth (mbsf)**	**Lithology**	**Sand**	**Silt**	**Clay**	**Apatite**	**Barite**	**Calcite**	**Carbonate**	**Chalcedony**	**Chert**	**Clay Mineral**	**Detrital Carbonate**	**Dolomite**	**Fe Oxide**	**Feldspar**	**Glauconite**	**Inorganic Calcite**	**Mica**	**Muscovite**	**Opaques**	**Organic Calcite**	**Oxides**	**Phillipsite**	**Plagioclase**	**Pyrite**	**Quartz**	**Volcanic Glass**	**Zeolite**	**Calcispheres**	**Diatoms**	**Dinoflagellate**	**Fish Remains**	**Foraminifers**	**Mollusk**	**Nannofossils**	**Pollen**	**Radiolarians**	**Silicoflagellates**	**Sponge Spicules**	**Bioclasts**	**Organic Debris**	**Cement**	**Fecal Pellet**	**Organic Debris**	**Organic Matter**	**Rock Fragment**
Hole A (Continued)																																																		
11	H	6	80	98.6	D										21																1	3		10					40		20	5								
12	H	1	55	100.35	D										25																			10					45		20									
12	H	5	75	106.55	M										5																88			2							5									
12	H	5	78	106.58	M										2																96			1							1									
12	H	6	27	107.57	D										36																			10					32		20	2								
13	H	2	30	111.1	M					*					10									2										10		*	2		67		5	2	2							
13	H	2	34	111.14	M																	*												55					35		3	2	5							
13	H	3	90	113.2	D										6														1					2			3		85		1		2							
13	H	4	44	114.24	M										35									1							1	*		5			3		50		2	1	2							
13	H	6	72	117.52	D										4																			3			3		87		1	*	2							
14	H	1	37	119.17	D										10																*			5			1		79		4	1								
14	H	1	110	119.9	M										15																			3			3		69		9	1								
14	H	4	56	123.86	D							15			25							1	2								1	1		2					50		3									
15	H	1	70	129	D										10																2			10					75		1		2							
15	H	1	111	129.41	D										10																2			5			*		80		3	*	*							
15	H	4	74	133.54	D										5																*			5			1		85		1	2	1							
15	H	6	32	136.12	D										5																*			2					85		2	1	5							
15	H	6	60	136.4	D							*																			*			15			*		70		10	*	5							
15	H	6	82	136.62	M							*												1							20			10					49		20									
15	H	CC	9	138.14	D							1			5																			*			2		89		2	1	*							
16	H	1	119	138.99	D				*						5																1	1					1		83		8	1								
16	H	2	26	139.56	D							10			10																1								70		8	1								
17	H	1	85	148.15	D						1				6																0						2		80		10	1	*							
17	H	2	62	149.42	D										10																2			2			3		69		7	3	4							
17	H	2	95	149.75	D							1			16																2			1					74		3	1	2							
17	H	2	124	150.04	D						1				6																			1					80		10	1	1							
17	H	6	74	155.54	D										30																			1			1		63		3	*	2							
18	H	1	35	157.15	D																			*										*			5		92		3	*								
18	H	1	137	158.17	D						*				5																			*			*		95											
18	H	2	60	158.9	M						*				10																			5					85		*	*								
18	H	3	57	160.37	M						1																							*			2		95		2	*	*							
18	H	4	142	162.72	M						*				20									*							*						*		70		5	5			*					
18	H	5	30	163.1	M						*				20				*			*								*							*		80											
18	H	5	46	163.26	M										30	*										65										*			5											
18	H	5	50	163.3	M										10	*			*					*						*		20				*			66						3					
18	H	5	90	163.7	M										10	*		*	*			*		*						*		5							85			*			*					
18	H	6	72	165.02	D										1																						*		99											
18	H	7	53	166.33	D										5																						*		95											
19	H	1	137	167.67	D							30																											70											
20	H	1	56	172.86	D			5				10			5																								85											
20	H	2	102	174.82	M			5				10			5																								85											
21	X	2	80	184.1	D																													*			1		99											
21	X	4	75	187.05	M																													1			1		98											
21	X	5	10	187.9	M																													*			1		99											
23	X	1	80	198.7	D										2									*													3		95				*							
23	X	4	64	203.04	D										3														1								5		90				*							
24	X	2	34	209.44	D																																7		93											
Hole B																																																		
1	R	2	55	159.05	D																													*			1		99											

Smear Slides

Sample						Size			Mineral															Biogenic																						Rock				
Core	Core Type	Section	Top (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Apatite	Barite	Calcite	Carbonate	Chalcedony	Chert	Clay Mineral	Detrital Carbonate	Dolomite	Fe Oxide	Feldspar	Glauconite	Inorganic Calcite	Mica	Muscovite	Opaques	Organic Calcite	Oxides	Phillipsite	Plagioclase	Pyrite	Quartz	Volcanic Glass	Zeolite	Calcispheres	Diatoms	Dinoflagellate	Fish Remains	Foraminifers	Mollusk	Nannofossils	Pollen	Radiolarians	Silicoflagellates	Sponge Spicules	Bioclasts	Organic Debris	Cement	Fecal Pellet	Organic Debris	Organic Matter	Rock Fragment
Hole B (Continued)																																																		
1	R	2	13	158.63	D																																		100											
1	R	3	13	160.13	M																																*		100						*					
1	R	4	47	161.97	D																																1		99						*					
1	R	5	63	163.13	M																																2		98		*		*							
1	R	CC	9	163.42	M										20	2			*					2						1							1		73						1					
2	R	5	80	173.4	D						15				5																								80											
2	R	5	29	172.89	D						15				5																								80											
3	R	2	50	178.2	D						13				5																						2		80											
4	R	2	50	187.8	D						10				2																						7		81											
4	R	3	54	189.34	M						7				5																						10		78											
5	R	2	74	197.74	D						3				2																						10		85											
6	R	1	65	205.75	D						2				3																						20		75											
22	R	CC	1	354.51	D																																7		93											
24	R	CC	20	373.9	M																																3		97											
28	R	1	5	412.15	D										15																						5		80											
28	R	1	124	413.34	D										15																						5		80											
40	R	CC	12	526.62	D										5														3								15		77											
40	R	CC	20	526.7	D									*	5														2								10		83							*				
42	R	CC	40	546.2	D										15																								73		2					10				
43	R	1	70	556.1	M										50	*			1	10		*									5	27							2		5									
43	R	1	89	556.29	M						20				55														*								15		10											
43	R	1	95	556.35	M						*				80	*			*													20							*		*									
43	R	1	105	556.45	D										10																								90		*									
43	R	1	109	556.49	M							*			50				*	3												34							3		*				10					
44	R	1	48	565.48	D						10				18									*					*			2					60		5		5									
44	R	1	67	565.67	D						2				68														2		1	2					*				*				25					
44	R	1	102	566.02	M						10				52														1	2		15				*	*		*		20				*					
44	R	1	134	566.34	D						20				35														15			15				*			*		15									
47	R	1	19	593.99	D						*				25														*								60		15											
47	R	1	37	594.17	D						2				33																						60		5											
47	R	2	91	596.11	D						10				20									*													30		30		10									
48	R	1	13	603.63	M										62					*				2												1	20		10		5									
48	R	1	95	604.45	D						5				35																						40		20											
49	R	1	48	613.68	M						2				52									1													10		30		5									
49	R	1	98	614.18	D						1				28									1													15		50		5									

Thin Sections

				Mineral Components (Authigenic, Detrital, and Volcanic)															Biogenic Components								
Sample Interval	Name	Structures	Comments	Accessory Minerals	Carbonate	Clay	Feldspar	Opaque Minerals	Quartz	Intraclasts	Zeolites	Fe-Mn Oxides	Barite	Carbonate Cement	Quartz in Matrix	Chalcedony &/or Quartz Cement	Opal In	Opal Cement	Diatoms	Dinoflagellates	Fish Remians	Foraminifers	Nannofossils	Radiolarians	Ostracodes	Echinoderm Fragments	Total
Hole A																											
1207A-18H-5, 44-47 cm	Partly Silicified Manganese Nodule	Microlaminaed Microstromatolitic Contorted Micronodular		tr	2		1		tr	1	7	66				5					tr	10	8				100
1207A-24X-5, 4-6 cm	Silicified Nannofossil Chalk	Burrows			2								1			2				1		5	88	1			100
1207A-26X-CC, 5-7 cm	Partly Silicified Nannofossil Chalk	Burrows			10	5										1		2				tr	81	1			100
1207A-28N-1, 0-3 cm	Silicified Nannofossil Chalk	Burrows										2	tr			2				1		2 (silicified)	93	tr		tr	100
1207A-28N-1, 3-4 cm	Porcellanite with Radiolarians	Laminated Burrows	Some lephiphere textures now chalcedony		20 (micrite)	10									45 (silicified nannofossils & quartz)	5						5 (some silicified)		15			
Hole B																											
1207B-8R-CC, 3-5 cm	Silicified Nannofossil Chalk	Chalcedony in vein	Relict lephsphere textures		3 (micrite)	10									78 (silicified groundmass)	2						2		5 (some ghosts - maybe more)			100
1207B-8R-CC, 9-12 cm	Partly Silicified Nannofossil Chalk with Radiolarians	Burrows				10									20	5						5	50	10			100
1207B-10R-CC, 1-3 cm	Chert/Chalk (Poorly made thin section - not described)																										
1207B-12R-CC, 3-5 cm	Partly Silicified Nannofossil Chalk	Burrows Microfractures	Chalk with porcellaite rim									tr						tr (lephispheres)	5 (?)			tr	92 (% includes clay & silica replacement)	3			100
1207B-12R-CC, 12-14 cm	Nannofossil Chalk	Burrows	Partly silicified					1								1			tr			1	96 (% includes clay & silica replacement)	1			100
1207B-13R-CC, 4-7 cm	Partly Silicified Nannofossil Chalk with Foraminifers	One burrow			10			tr					tr		72 (silicified nannofossils + cement?)	1				tr		15 (some radiolarians?)		2 (+ some ghosts?)			100

Thin Sections

				Mineral Components (Authigenic, Detrital, and Volcanic)															Biogenic Components								
Sample Interval	Name	Structures	Comments	Accessory Minerals	Carbonate	Clay	Feldspar	Opaque Minerals	Quartz	Intraclasts	Zeolites	Fe-Mn Oxides	Barite	Carbonate Cement	Quartz in Matrix	Chalcedony &/or Quartz Cement	Opal In	Opal Cement	Diatoms	Dinoflagellates	Fish Remians	Foraminifers	Nannofossils	Radiolarians	Ostracodes	Echinoderm Fragments	Total
Hole B (Continued)																											
1207B-14R-CC, 1-3 cm	Silicified Nannofossil Chalk	Burrows (clay & carbonate rich -some chondrites?)	Forams concentrated in burrows		25 (recrystallized nannofossils?)							tr	tr		64 (microquartz replaced nannofossil and cement?)		4		5			1		1	?		100
1207B, 14R-CC, 15-21 cm	Partly Silicified Nannofossil Chalk with Foraminifers				10										40 (includes opal & microcrystalline quartz)	2						12	34	2	tr		100
1207B-15R-CC, 12-15 cm	Porcellanite (Partly Silicified Nannofossil Chalk)	Microfractures Burrows	Chalk left in burrows Reaction fronts									2 (irregular streaks and blebs)				1						2	95				100
1207B-15R-CC, 20-22 cm	Silicified Nannofossil Chalk	Burrows			10 (micrite = recrystallized nannofossils?)							3	tr		50 (silica cement, including brownish opal(?) cement)				? (recrystalized?)			3	34			tr	100
1207B-16R-CC, 14-16 cm	Partly Silicifed Nannofossil Chalk	Burrows	Concentation of clay suggests that clay-poor sediment first silicified		50 (less in pure [nonred] chert)	10						3			33 (matrix/ cement)			tr (concentrated at chert contact)		tr		3		1		tr	100
1207B-16R-CC, 22-24 cm	Partly Silicified & Micritized Nannofosil Chalk				65										33 (silicified)						tr			2			100
1207B-18R-CC, 10-11 cm	Partly Silicified Nannofossil Chalk with Radiolarians															5							77	18 (includes radiolarian spicules/ spines)			100
1207B-18R-CC, 14-15 cm	Nannofossil Chalk															2 (in radiolarians & foraminifers)					tr	3 (some partly silicified)	88 (+ some clay?)	7 (still opaline) (some spicules)	tr	tr	100
1207B-18R-C, 21-22 cm	Nannofossil Chalk															2 (in radiolarians & foraminifers)					tr	1	92	5 (& spicules)	tr		100

Thin Sections

				Mineral Components (Authigenic, Detrital, and Volcanic)															Biogenic Components								
Sample Interval	Name	Structures	Comments	Accessory Minerals	Carbonate	Clay	Feldspar	Opaque Minerals	Quartz	Intraclasts	Zeolites	Fe-Mn Oxides	Barite	Carbonate Cement	Quartz in Matrix	Chalcedony &/or Quartz Cement	Opal In	Opal Cement	Diatoms	Dinoflagellates	Fish Remians	Foraminifers	Nannofossils	Radiolarians	Ostracodes	Echinoderm Fragments	Total
Hole B (Continued)																											
1207B-19R-CC, 9-11 cm	Partly Silicified Chalk	Burrows	Exellent transition from chalk to porcellanite to chert		20	10 (? Concentrated in burrows)		1						tr (in foraminifers)	28 (includes opal, replaced nannofossils, & cement?)			tr (see lephispheres)			tr	3	30 (some silicified)	8	tr		100
1207B-33R-1, 80-81 cm	Foraminifer-Nannofossil Porcellanite		Opal cement in microfossils has recrystallized to quartz									3	tr			10 (infilling microfossils)						25	59 (some silicified?)	3			100
1207B-37R-CC, 25-27 cm	Partly silicified Radiolarian Nannofossil Chalk with Foraminifers							5								34 (and replacement)		1			tr	10 (some silicified)	30	20	tr		100
1207B-37R-CC, 53-55 cm	Silicified Nannofossil Chalk				3										92			1				5 (many silicified)		tr (may be silicified foraminifers)	tr	tr	101
1207B-37R-CC, 63-66 cm	Nannofossil Porcellanite				2							1				3		3		1	tr	5	80	5		tr	100
1207B-37R-CC, 68-73 cm	Mix of Chert, Chalk, and Porcellanite with Radiolarians	Burrows	Vein containing carbonate and quartz		3 (micrite)			tr (pyritized radiolarian fragments)						2	42 (replaced groundmass)	8						5	25	15			100
1207B-42R-CC, 40-41 cm	Nannofossil Chalk (Porcellanite?) with Foraminifers and Radiolarians		Brownish color of chalcedony cement suggests once opal	tr (glauconite?)				tr (pyrite)						tr (in vein)		5						10	75	10 (and some spicules)	tr		100
1207B-46R-1, 96-98 cm	Nannofossil Chalk	Few burrows		tr (glauconite?)		5		2 pyrite						3		tr					2	7	80	1	tr		100