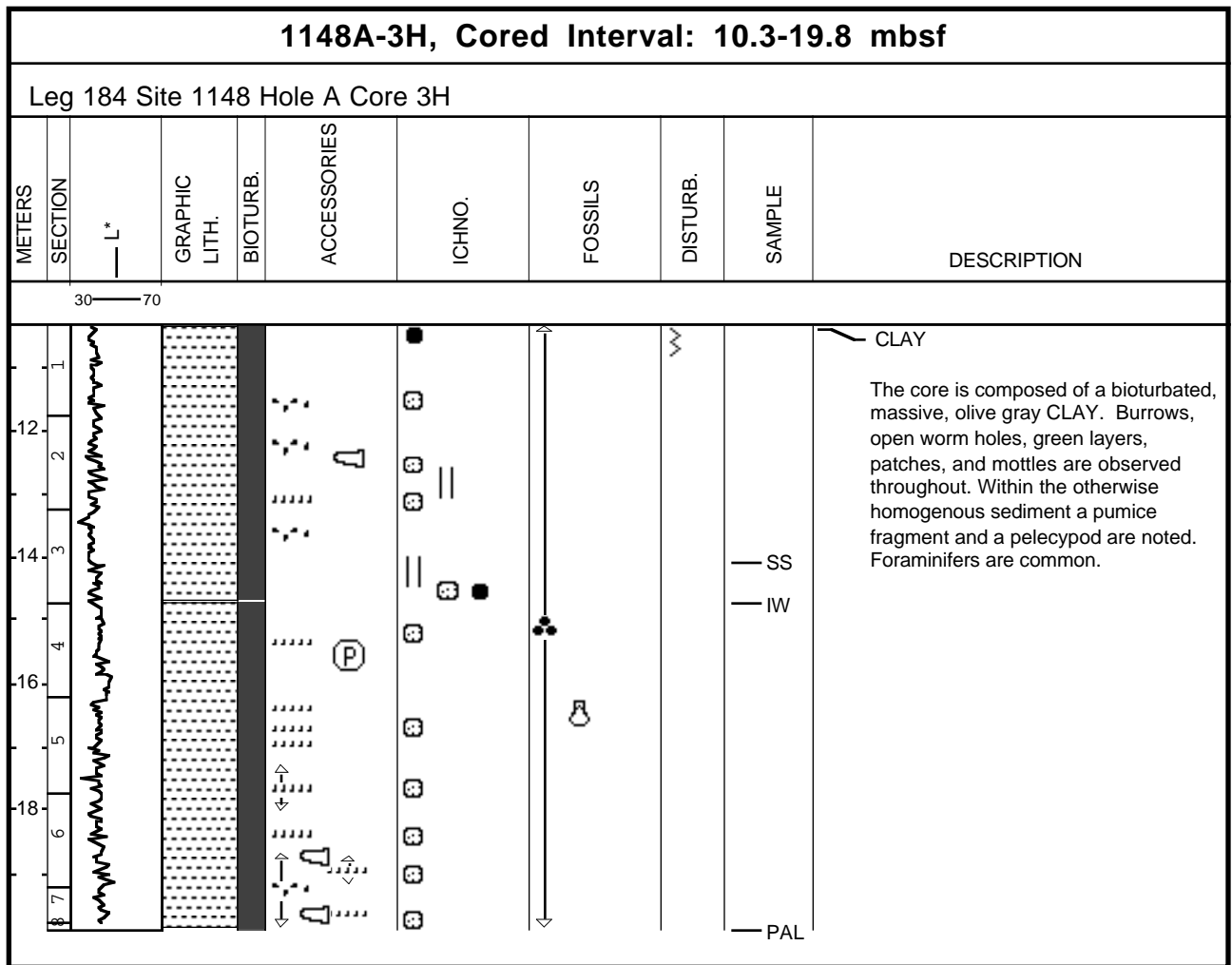


Core Photo

1148A-1H, Cored Interval: 0.0-0.8 mbsf										
Leg 184 Site 1148 Hole A Core 1H										
METERS	SECTION	L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
30 — 70										
1									 	<div>CLAY</div> <p>This core consists of olive gray CLAY marked by a few green layers. Fecal pellets characterize the first section. The oxidized boundary is located at 20 cm. Above this level, the sediment is a chocolate brown color. Foraminifers are rare.</p>

1148A-2H, Cored Interval: 0.8-10.3 mbsf										
Leg 184 Site 1148 Hole A Core 2H										
METERS	SECTION	L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
<div> <div>3070</div> <div> </div> </div>										

Core Photo

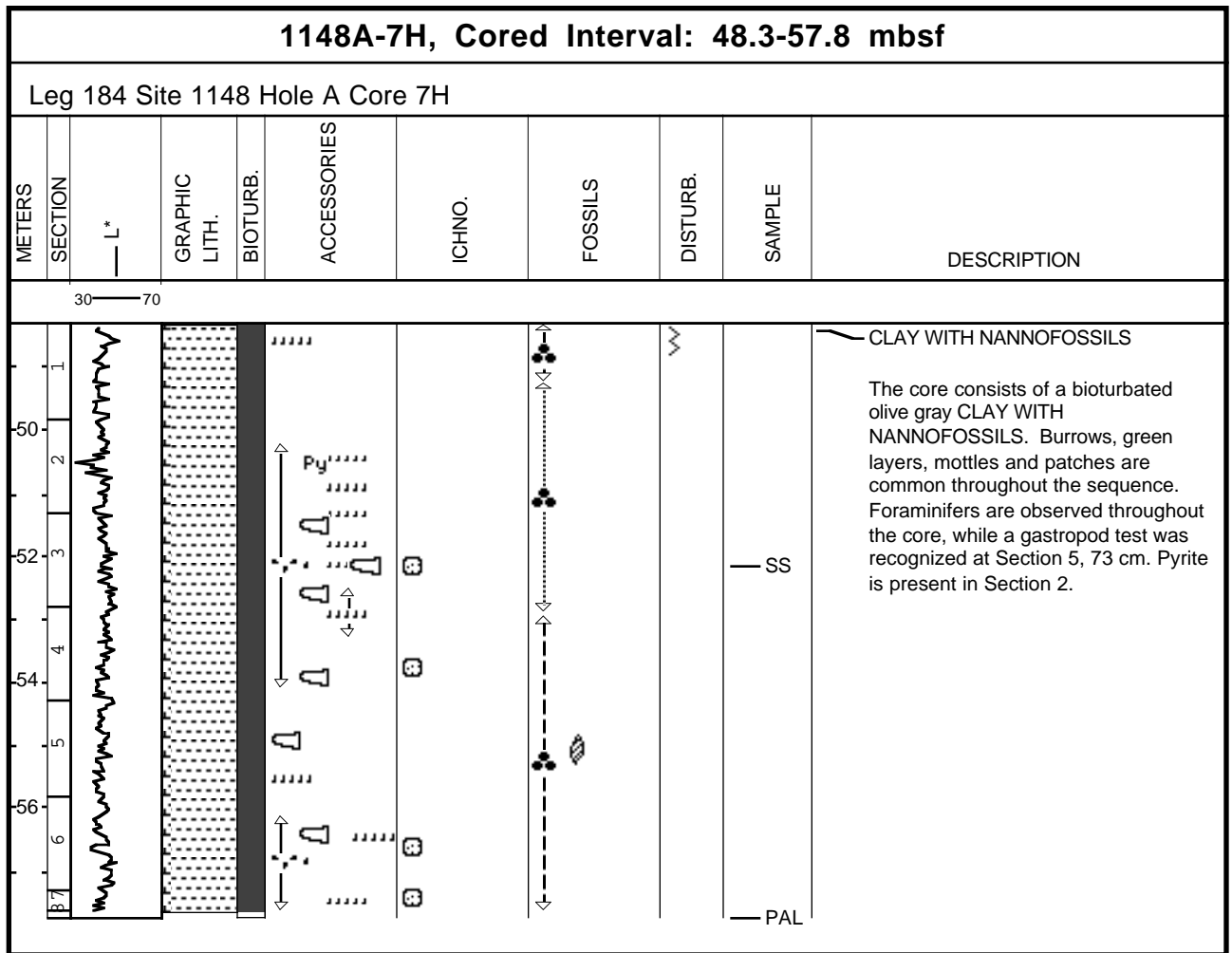


Core Photo

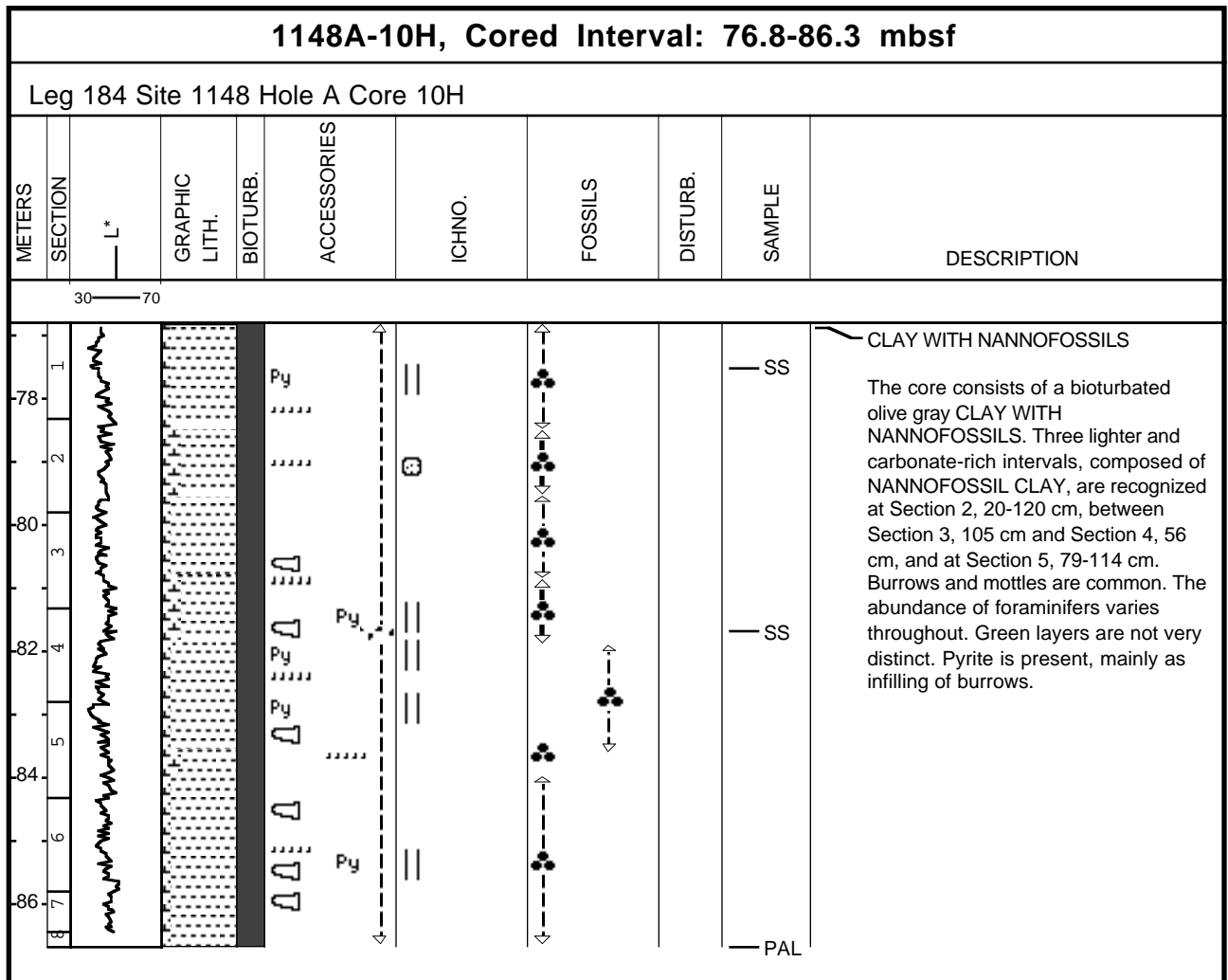
1148A-4H, Cored Interval: 19.8-29.3 mbsf										
Leg 184 Site 1148 Hole A Core 4H										
METERS	SECTION	— L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
30 — 70										
1										<p>CLAY WITH NANNOFOSSILS</p> <p>The core consists of a bioturbated olive gray CLAY WITH NANNOFOSSILS. A gray CLAYEY NANNOFOSSIL OOZE turbidite is observed at Section 6, 56-88 cm at the base of which is a black VOLCANIC ASH layer at Section 6, 86-90 cm. A 3-cm-thick light gray VOLCANIC ASH layer is noted at Section 2, 86-89 cm. A burrow filled with light gray VOLCANIC ASH is present in Section 3, 71 cm. Burrows, green layers, patches, and mottles are distributed throughout. Foraminifer occurrences are moderate to common.</p>
2										
3										
4										
5										
6										
7										
8										
<p>— IW</p> <p>— SS</p> <p>— SS</p> <p>— PAL</p>										

[illegible]

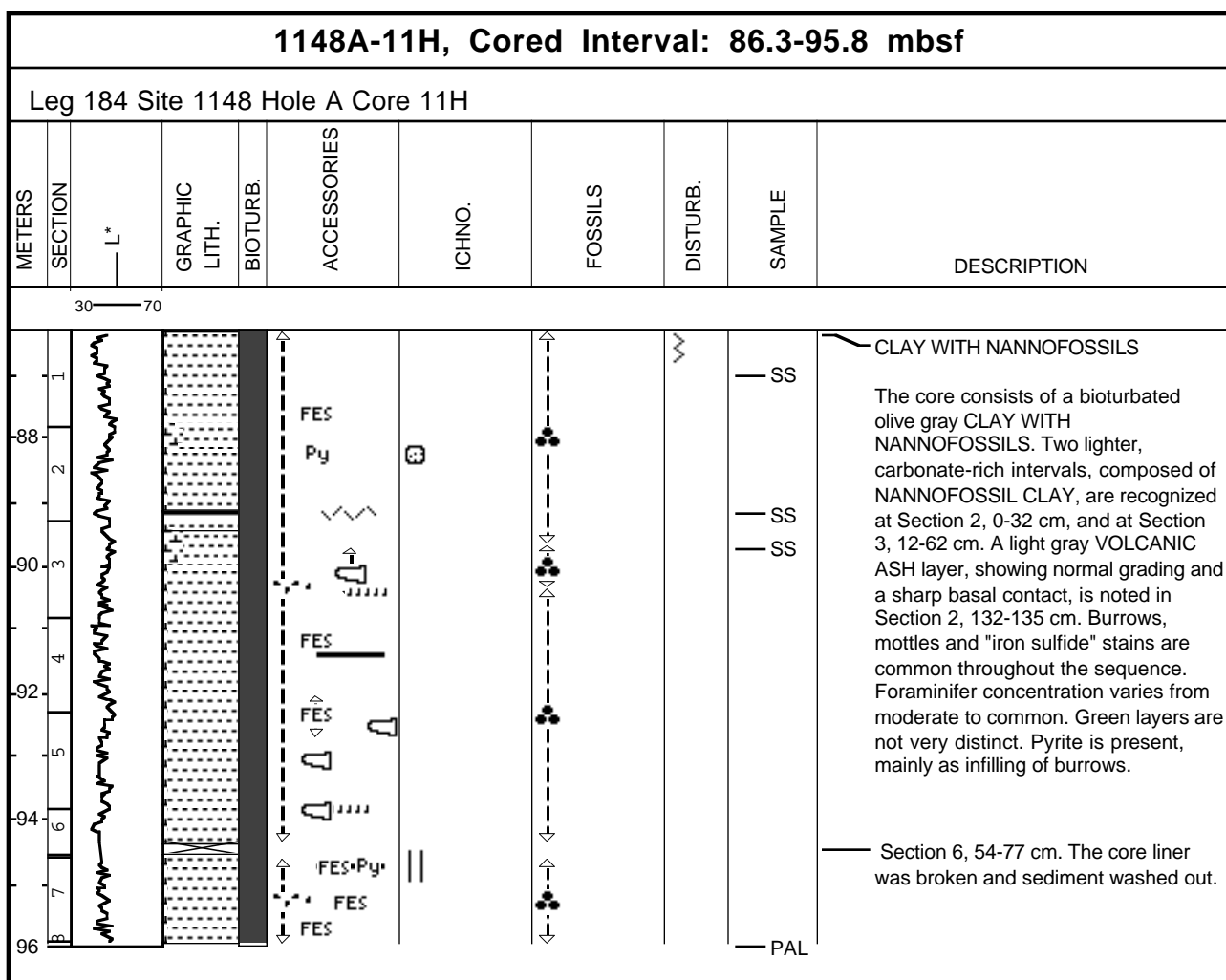
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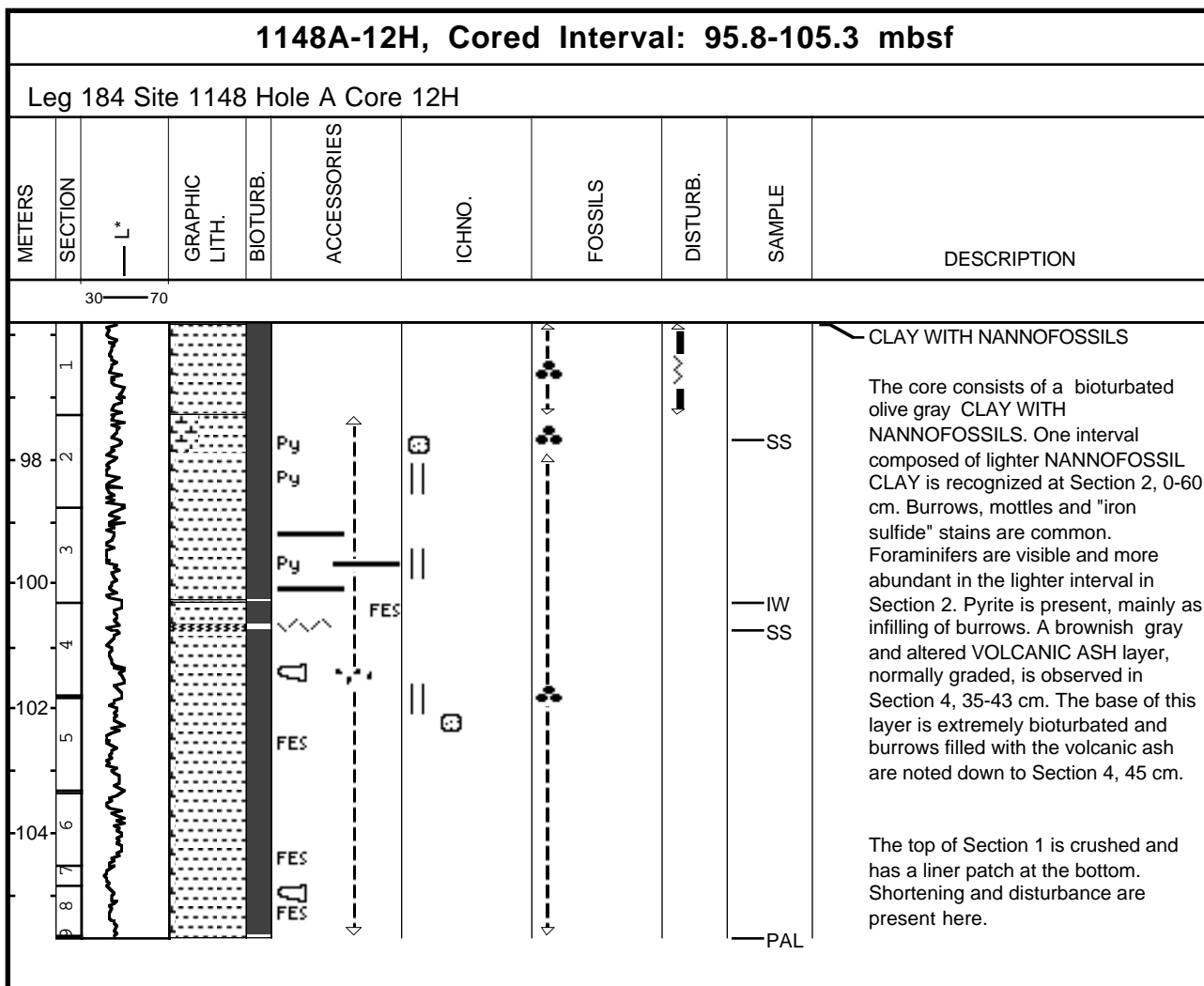
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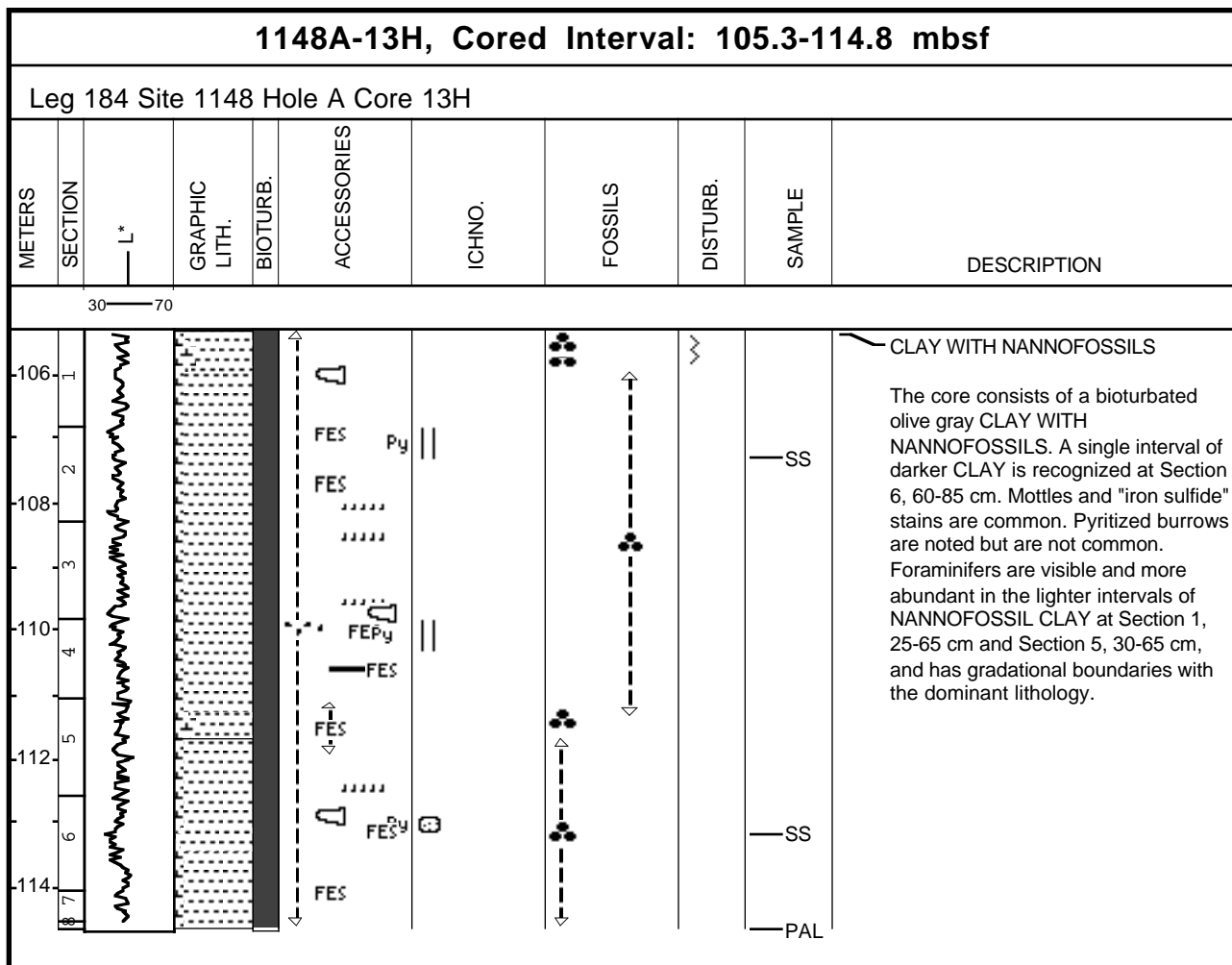
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Core Photo

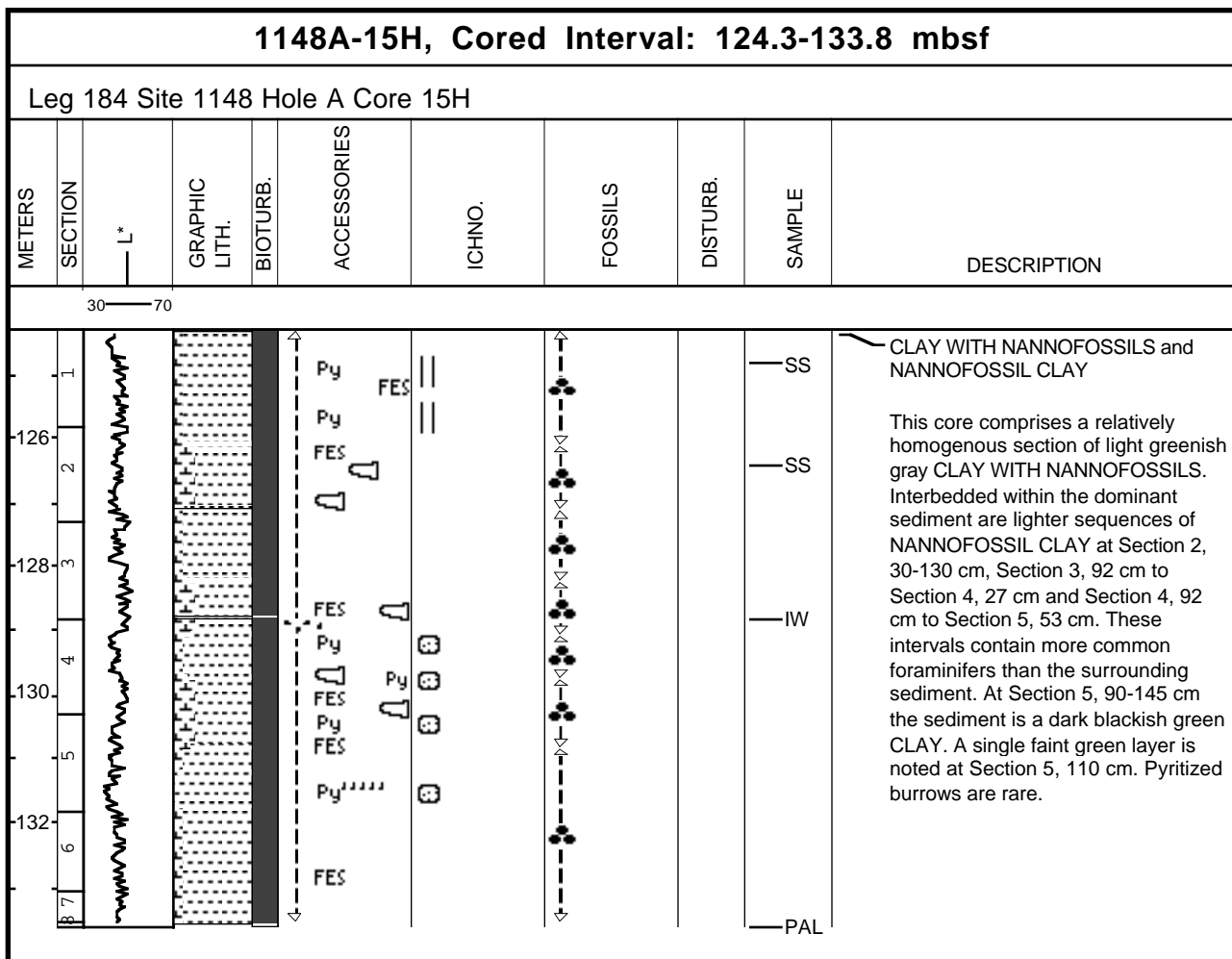


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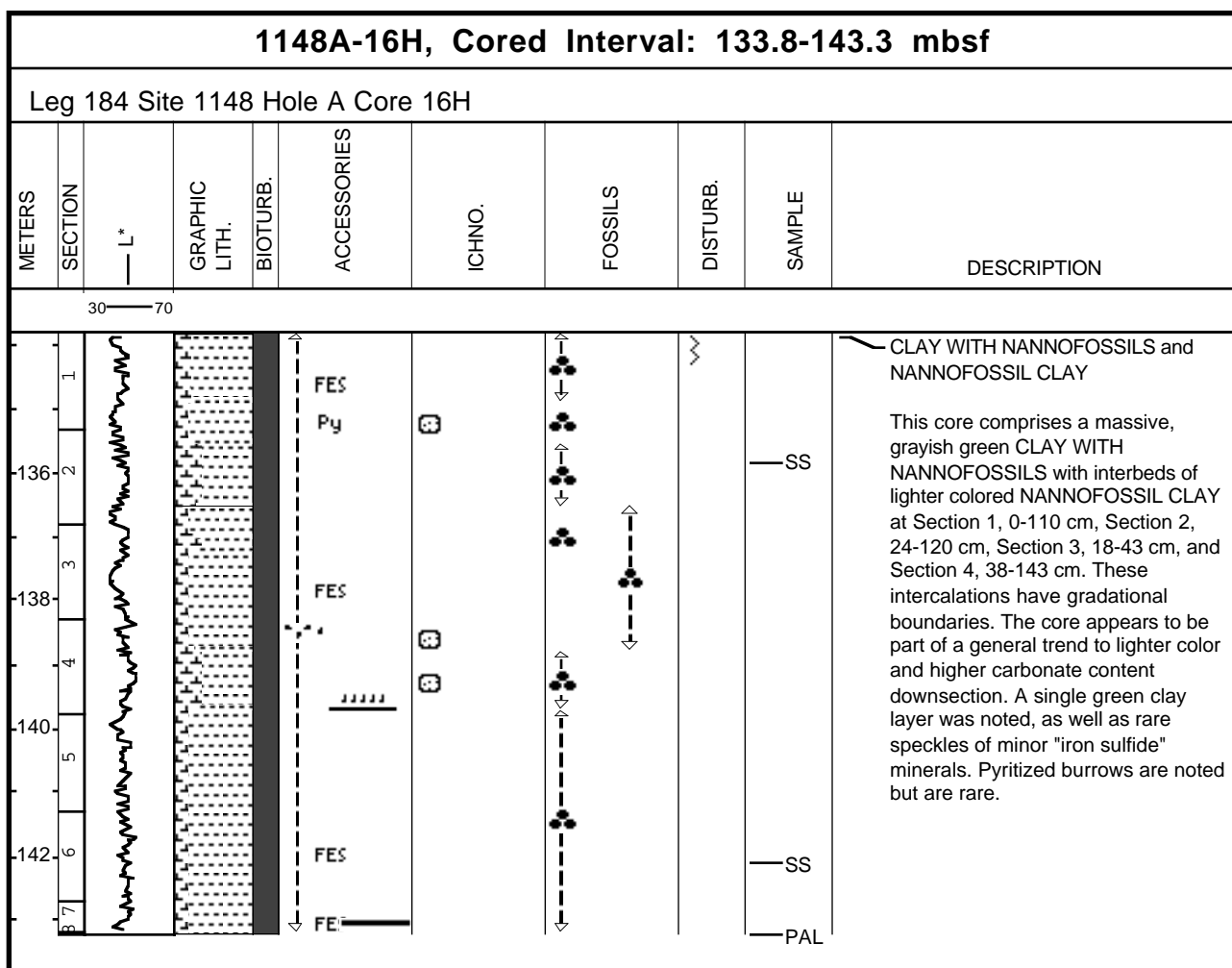


1148A-14H, Cored Interval: 114.8-124.3 mbsf										
Leg 184 Site 1148 Hole A Core 14H										
METERS	SECTION	— L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
30 — 70										
116	1				FES				SS	<p>CLAY WITH NANNOFOSSILS</p> <p>This core comprises a relatively homogenous section of light greenish gray CLAY WITH NANNOFOSSILS. Interbedded within the dominant sediment at Section 1, 20-85 cm is a lighter sequence of NANNOFOSSIL CLAY that has more common foraminifers. A darker sequence of CLAY is noted at Section 5, 55-90 cm and Section 6, 70-114 cm. Some very faint green layers are noted, as are rare pyritized burrows.</p>
118	2				FES					
	3				FES					
120	4				Py					
	5				Py					
	6				FES					
122	7				FES					
	8				FES				PAL	

Core Photo

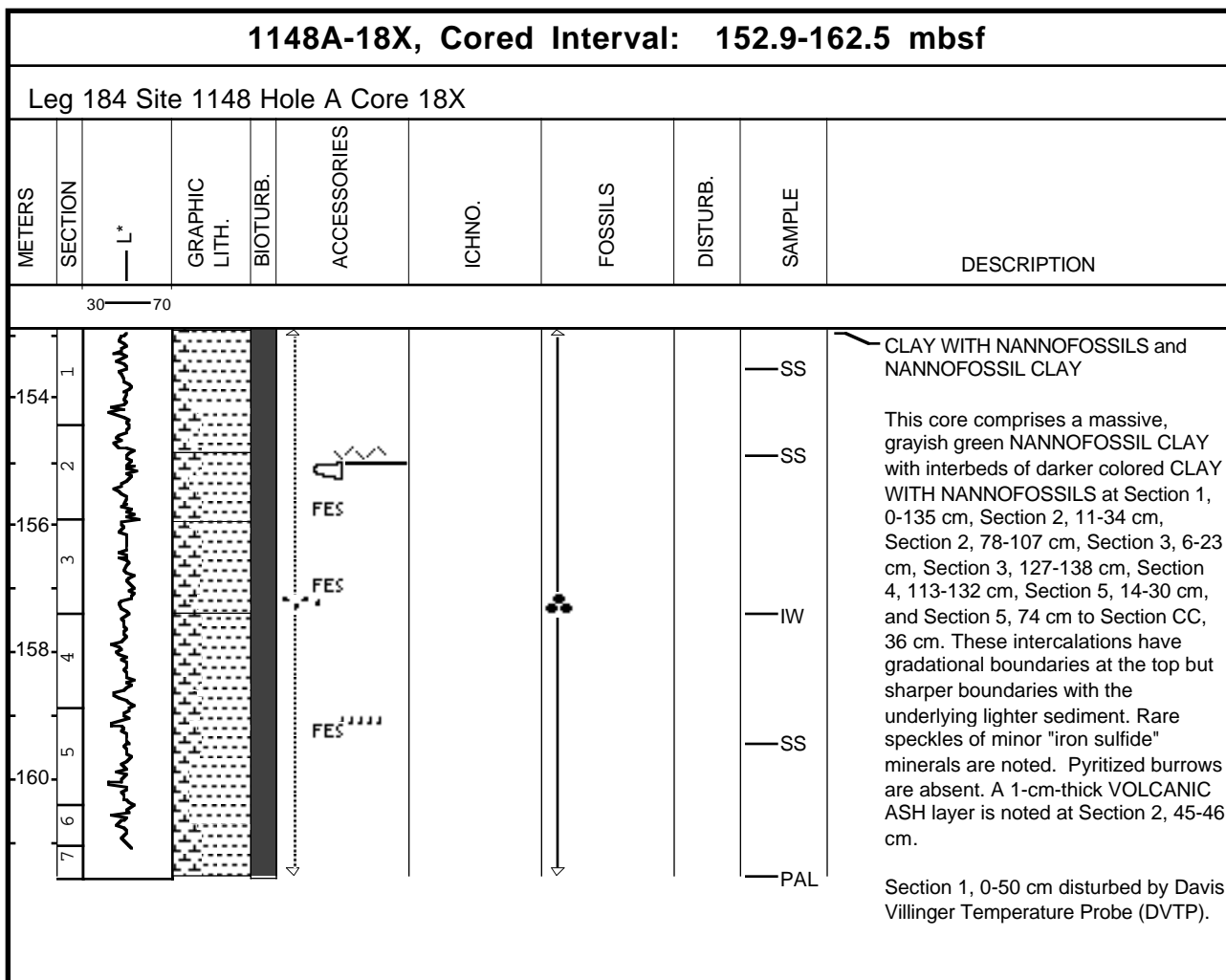


Core Photo



1148A-17X, Cored Interval: 143.3-152.9 mbsf										
Leg 184 Site 1148 Hole A Core 17X										
METERS	SECTION	L*	GRAPHIC LITH.	BIO TURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
30 ————— 70										
144 1									SS	NANNOFOSSIL CLAY and CLAY WITH NANNOFOSSILS
146 2					FES				SS	This core comprises a massive, grayish green NANNOFOSSIL CLAY with interbeds of darker colored CLAY WITH NANNOFOSSILS at Section 2, 13-34 cm, Section 3, 94-114 cm, Section 5, 10-20 cm, and Section 5, 80 cm to Section 6, 15 cm. These intercalations have gradational boundaries at the top but sharper boundaries with the underlying lighter sediment. The core appears to be part of a general trend to lighter color and higher carbonate content downsection. Rare speckles of minor "iron sulfide" minerals are noted. Pyritized burrows are absent.
148 3					FES					
150 4					FES					
152 5					FES				PAL	
154 6					FES					
156 7					FES					
158 8					FES					

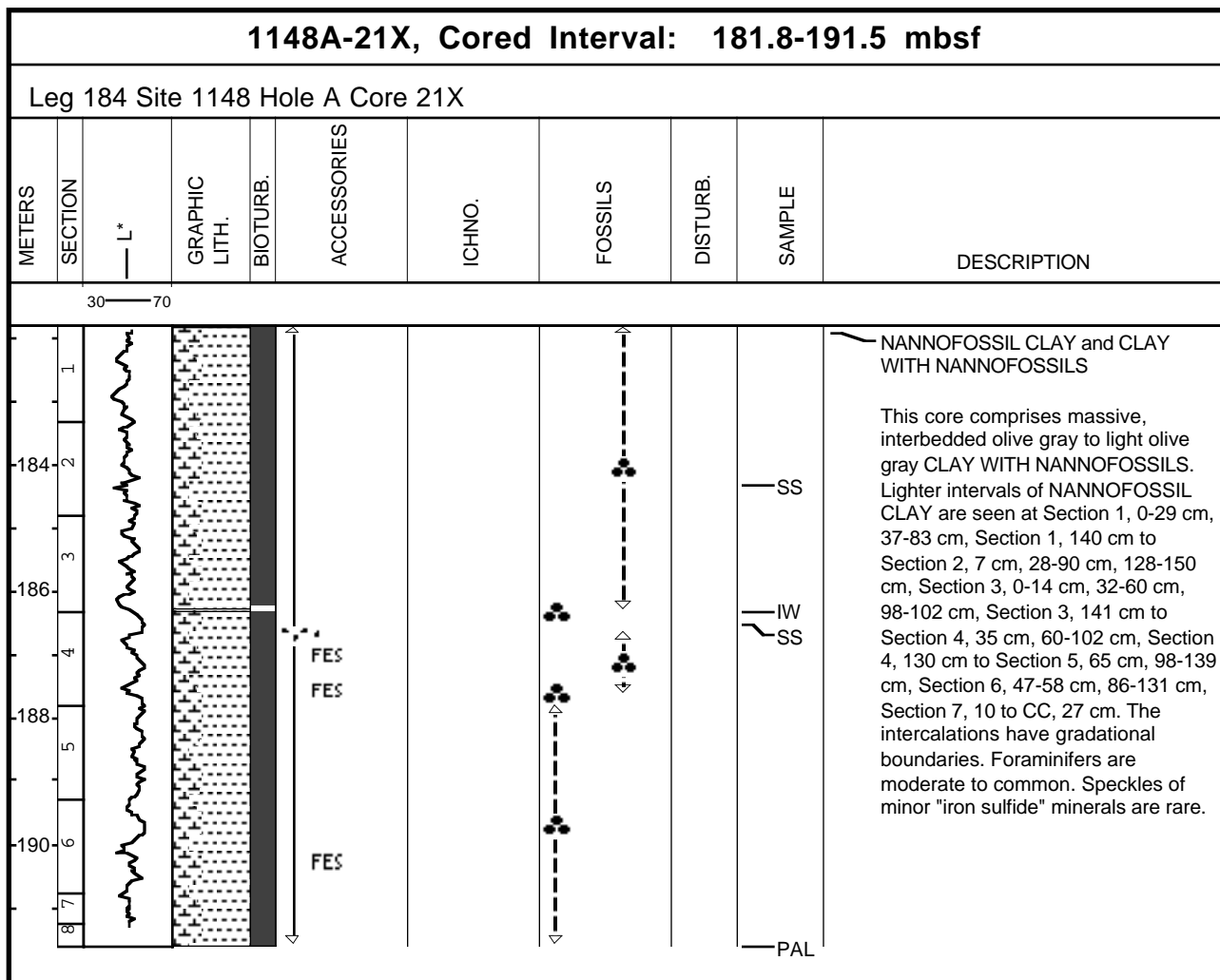
Core Photo



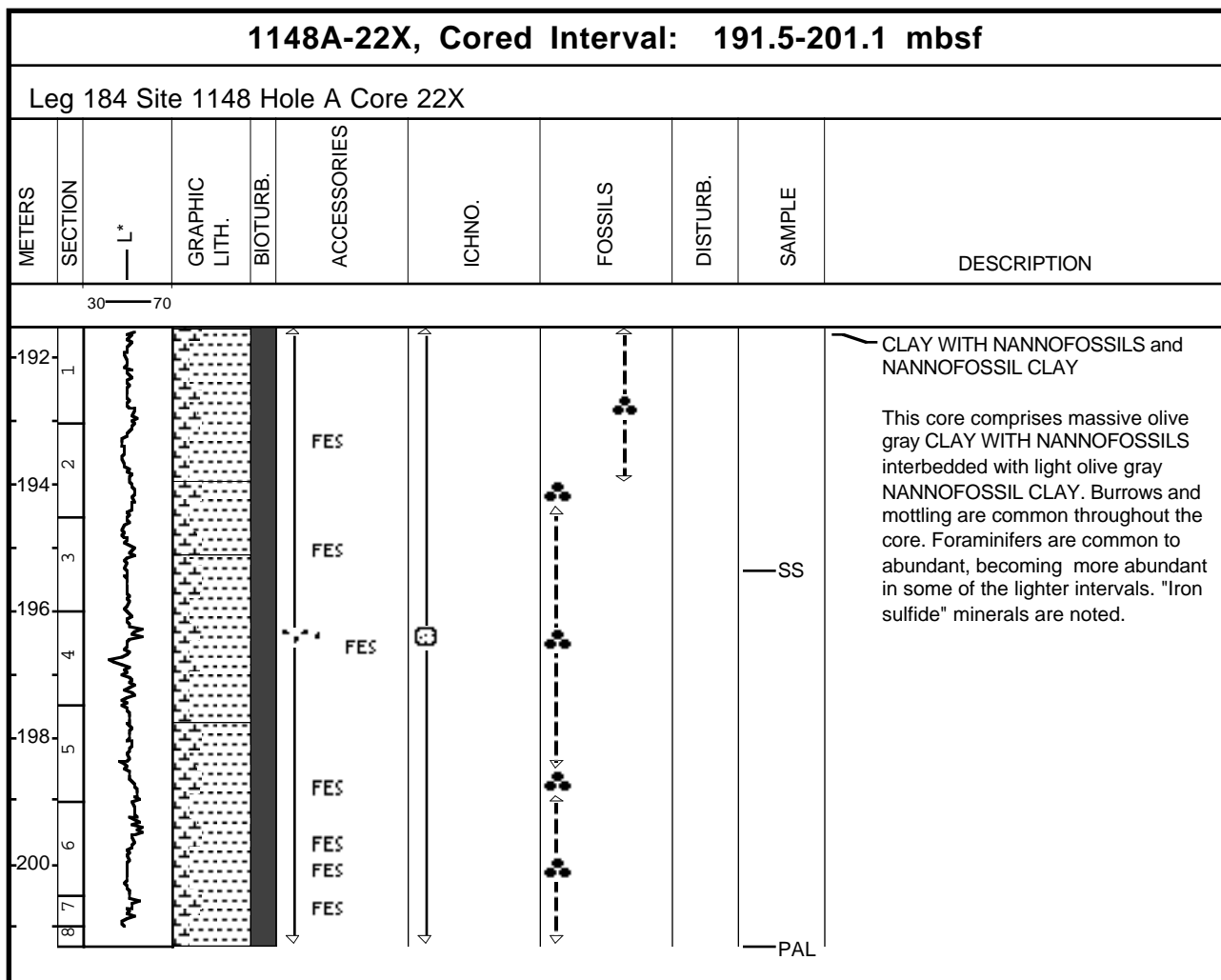
Core Photo

1148A-19X, Cored Interval: 162.5-172.1 mbsf										
Leg 184 Site 1148 Hole A Core 19X										
METERS	SECTION	— L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
30 — 70										
	1									<p>CLAY WITH NANNOFOSSILS and NANNOFOSSIL CLAY</p> <p>This core comprises massive, grayish green NANNOFOSSIL CLAY interbedded with CLAY WITH NANNOFOSSILS. Lighter intervals are seen at Section 1, 40-60 cm and 92-112 cm, Section 2, 40-92 cm and 117-150 cm, Section 3, 16-43 cm and 121-138 cm, Section 4, 26-65 cm and 112-136 cm, Section 5, 32-98 cm and Section 5, 139 cm to Section 6, 63 cm, and Section 6, 111-142 cm. These intercalations have gradational boundaries at the base but sharper boundaries with the overlying darker sediment. Speckles of "iron sulfide" minerals are rare.</p>
164	2				FES				SS	
166	3				FES					
168	4								SS	
170	5									
172	6									
	7									
	8								PAL	

Core Photo

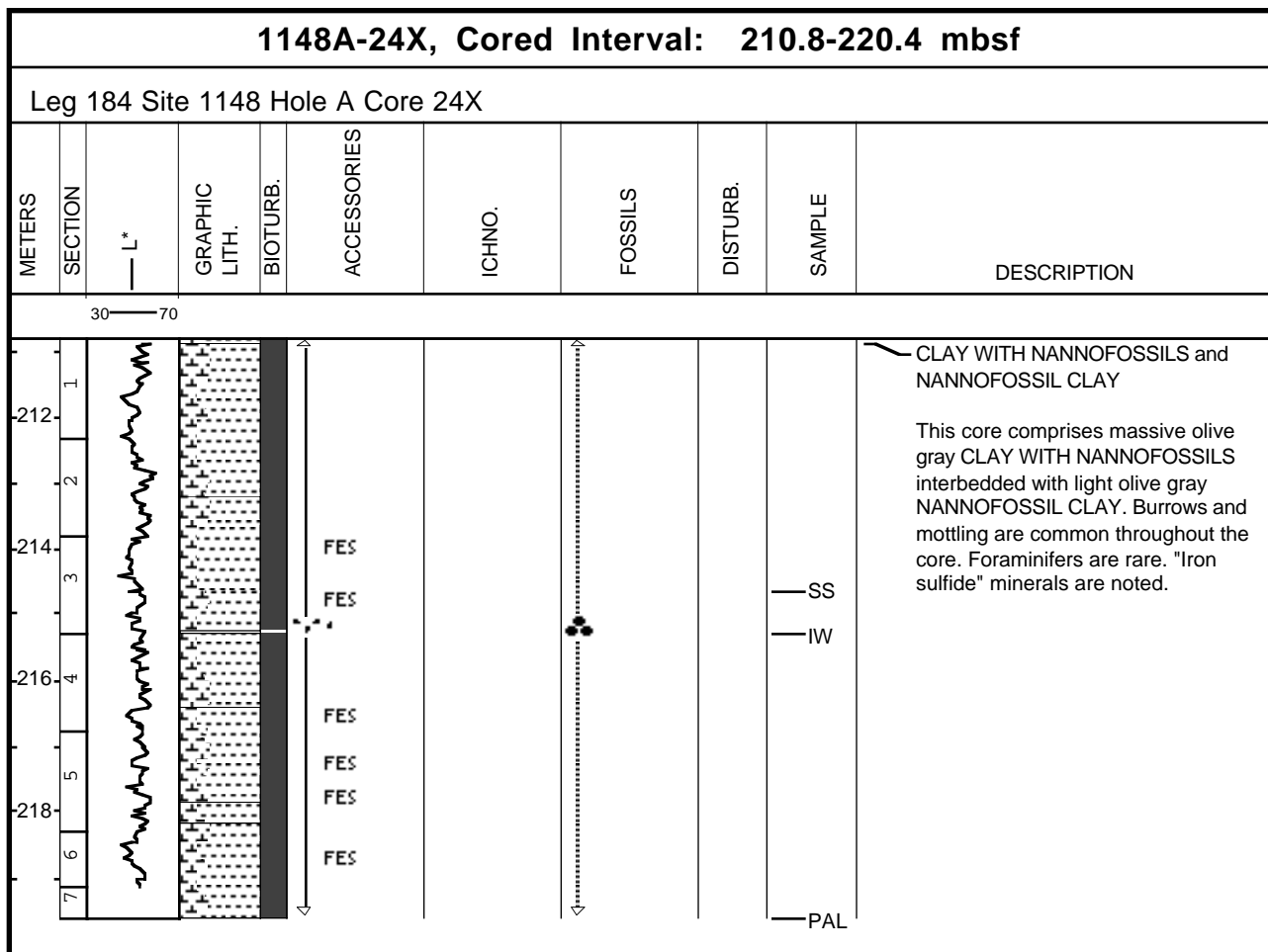


Core Photo

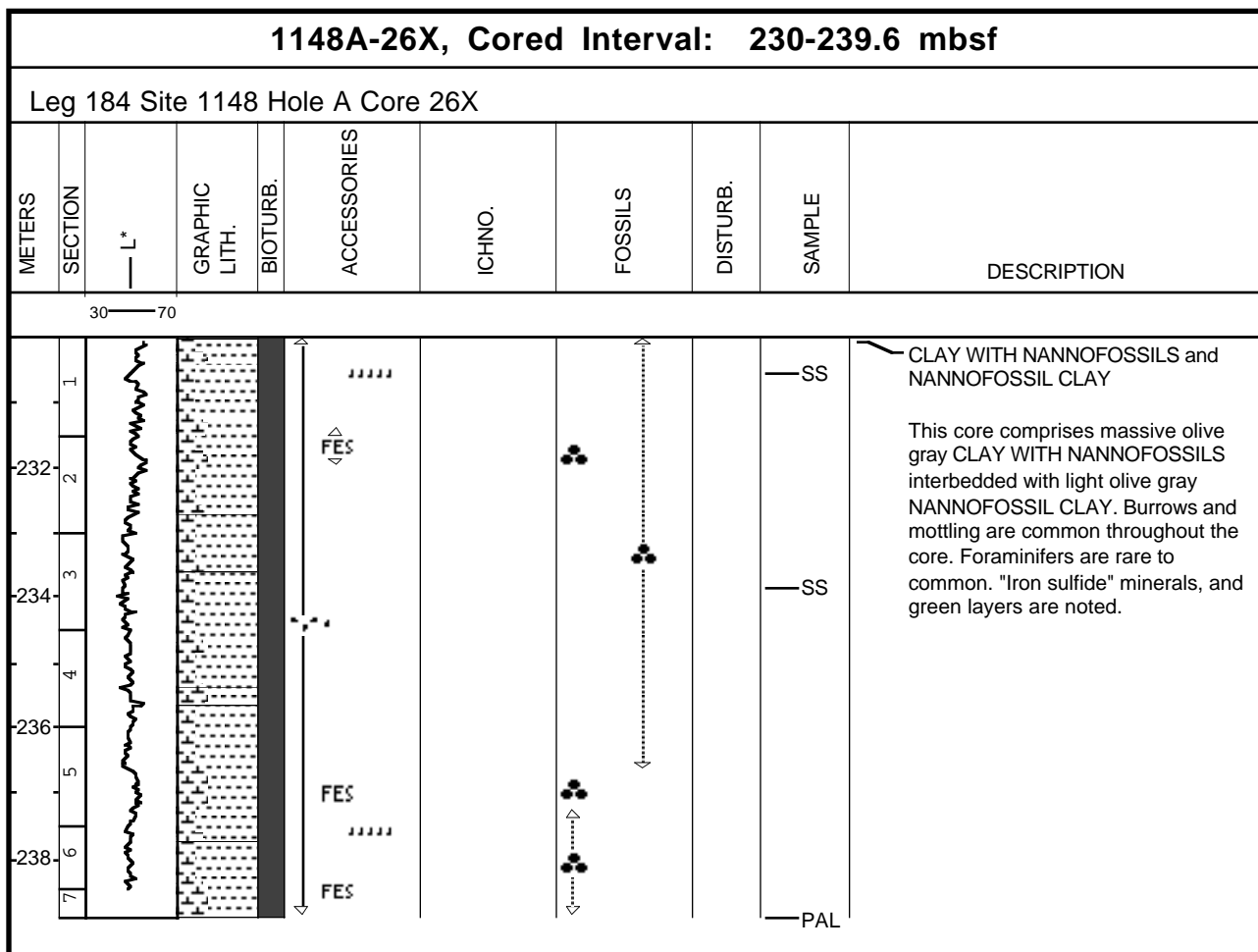


1148A-23X, Cored Interval: 201.1-210.8 mbsf										
Leg 184 Site 1148 Hole A Core 23X										
METERS	SECTION	L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
30 ————— 70										
202 1			[Patterned Lithology]		FES	(Small circular fossil)				CLAY WITH NANNOFOSSILS and NANNOFOSSIL CLAY This core comprises massive olive gray CLAY WITH NANNOFOSSILS interbedded with light olive gray NANNOFOSSIL CLAY. Burrows and mottling are common throughout the core. Foraminifers are present in moderate concentrations. "Iron sulfide" minerals are noted. <div style="margin-left: 2em;">— SS</div> <div style="margin-left: 2em;">— PAL</div>
204 2			[Patterned Lithology]		FES					
206 3			[Patterned Lithology]							
206 4			[Patterned Lithology]							
208 5			[Patterned Lithology]		FES					
210 6			[Patterned Lithology]							
210 7			[Patterned Lithology]							

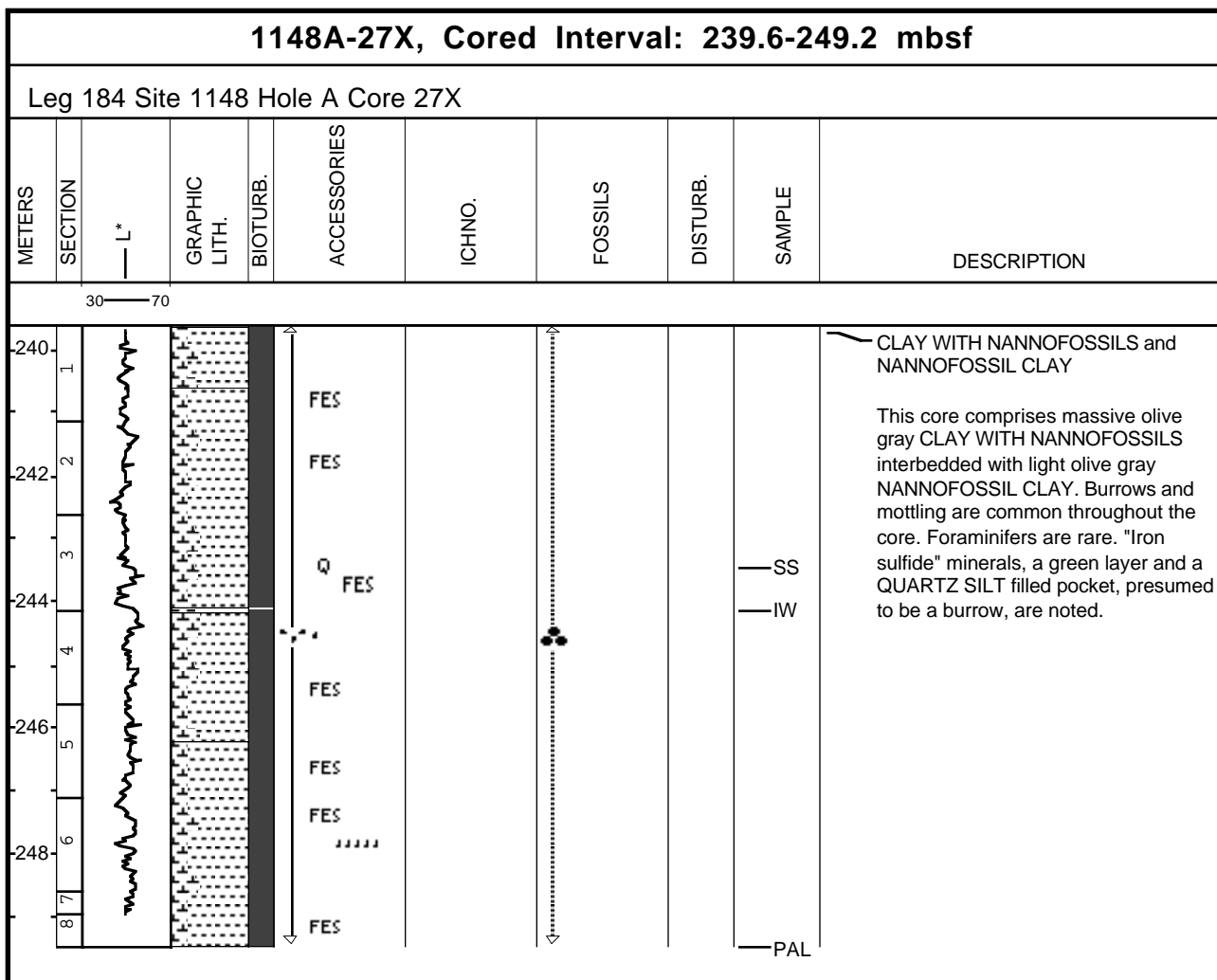
Core Photo



Core Photo



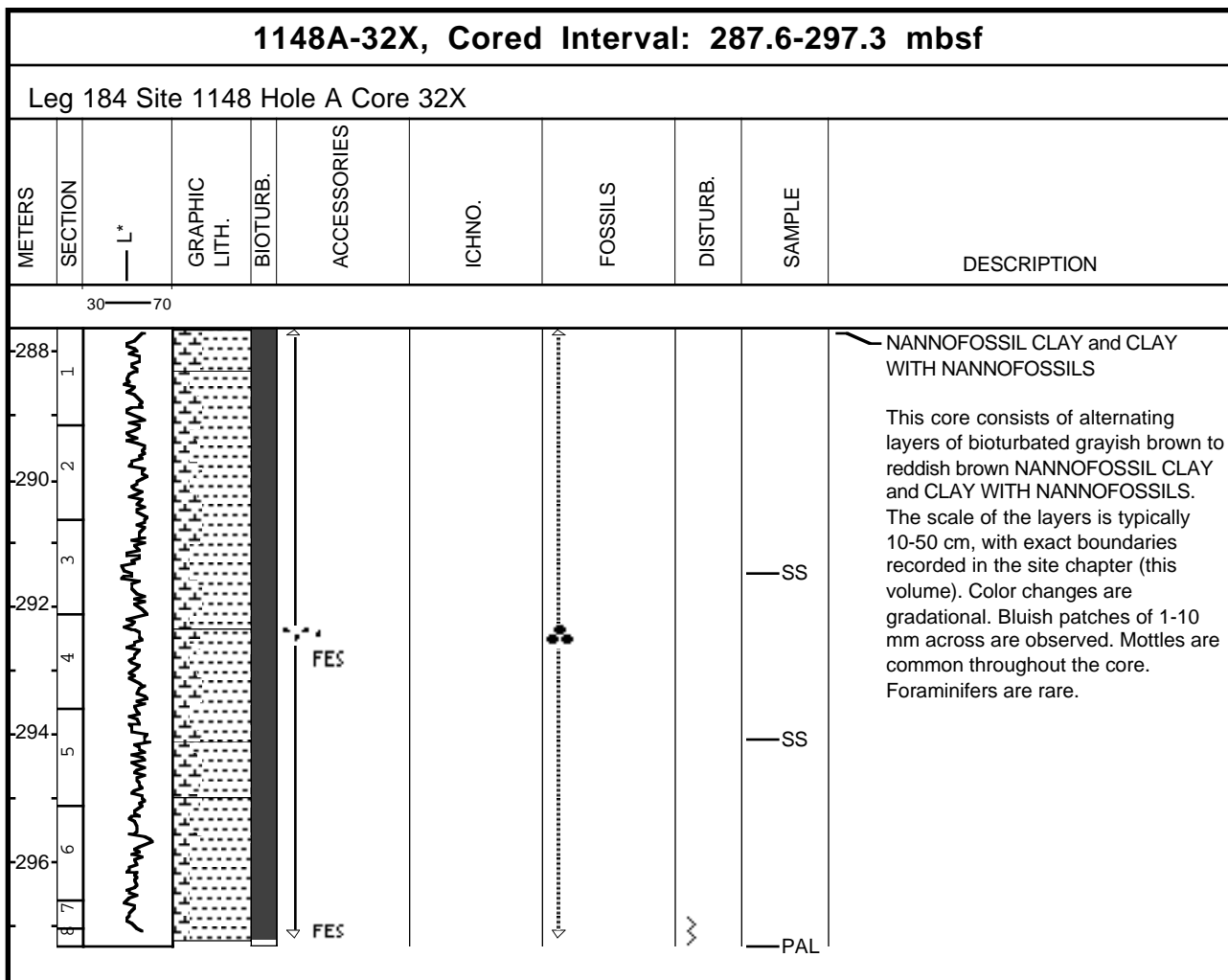
Core Photo



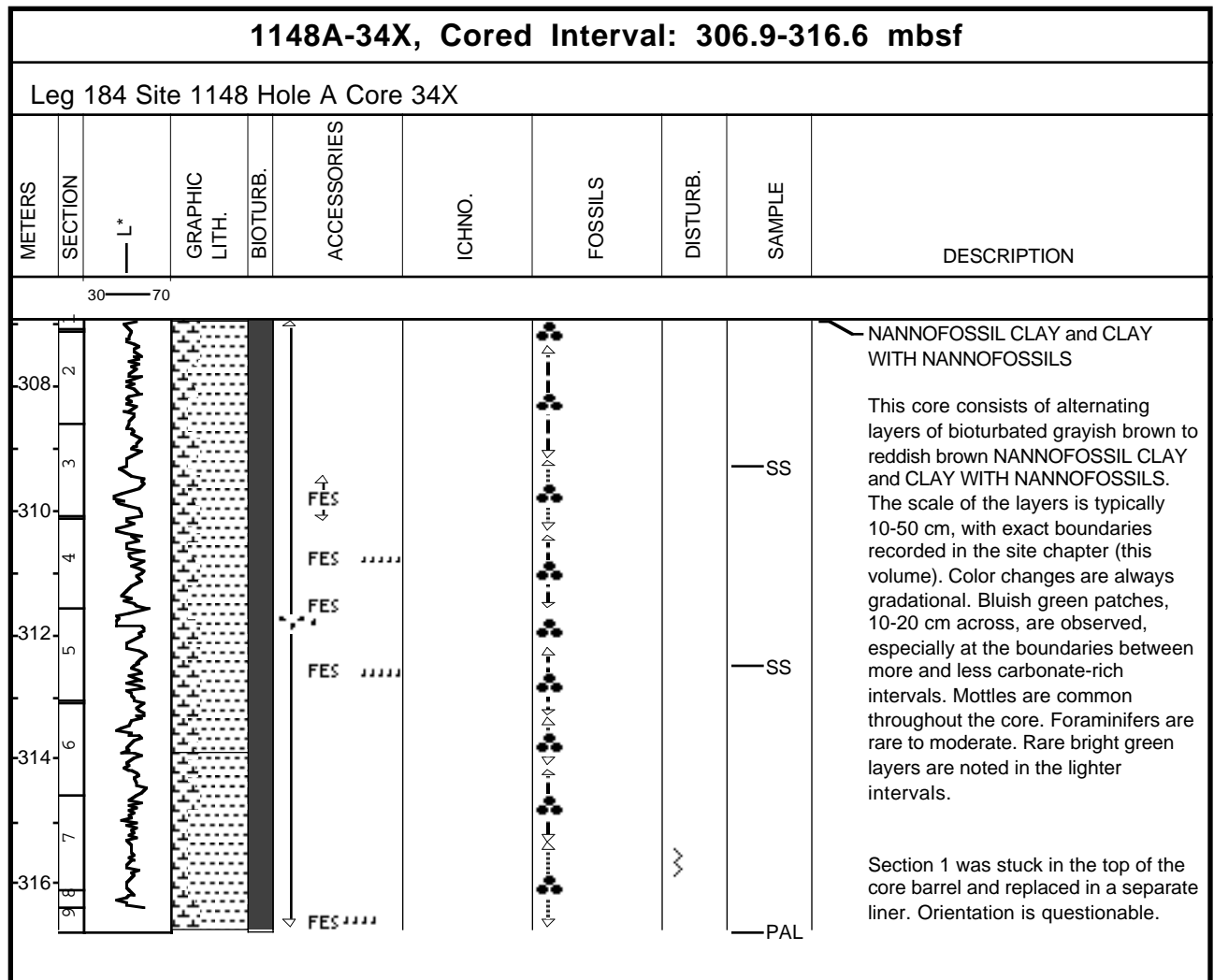
[illegible]

1148A-29X, Cored Interval: 258.8-268.4 mbsf										
Leg 184 Site 1148 Hole A Core 29X										
METERS	SECTION	— L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p>30 — 70</p> </div> <div style="flex-grow: 1;"> <p>The core log displays a vertical profile from 260 to 266 meters depth. The lithology column shows alternating layers of yellowish-brown clay and grayish-brown clay with nannofossils. Bioturbation is indicated by irregular, wavy lines. Fossil distribution is shown by small black dots representing nannofossils and larger symbols representing foraminifers. A scale bar at the top indicates 30 to 70 cm.</p> </div> </div>										

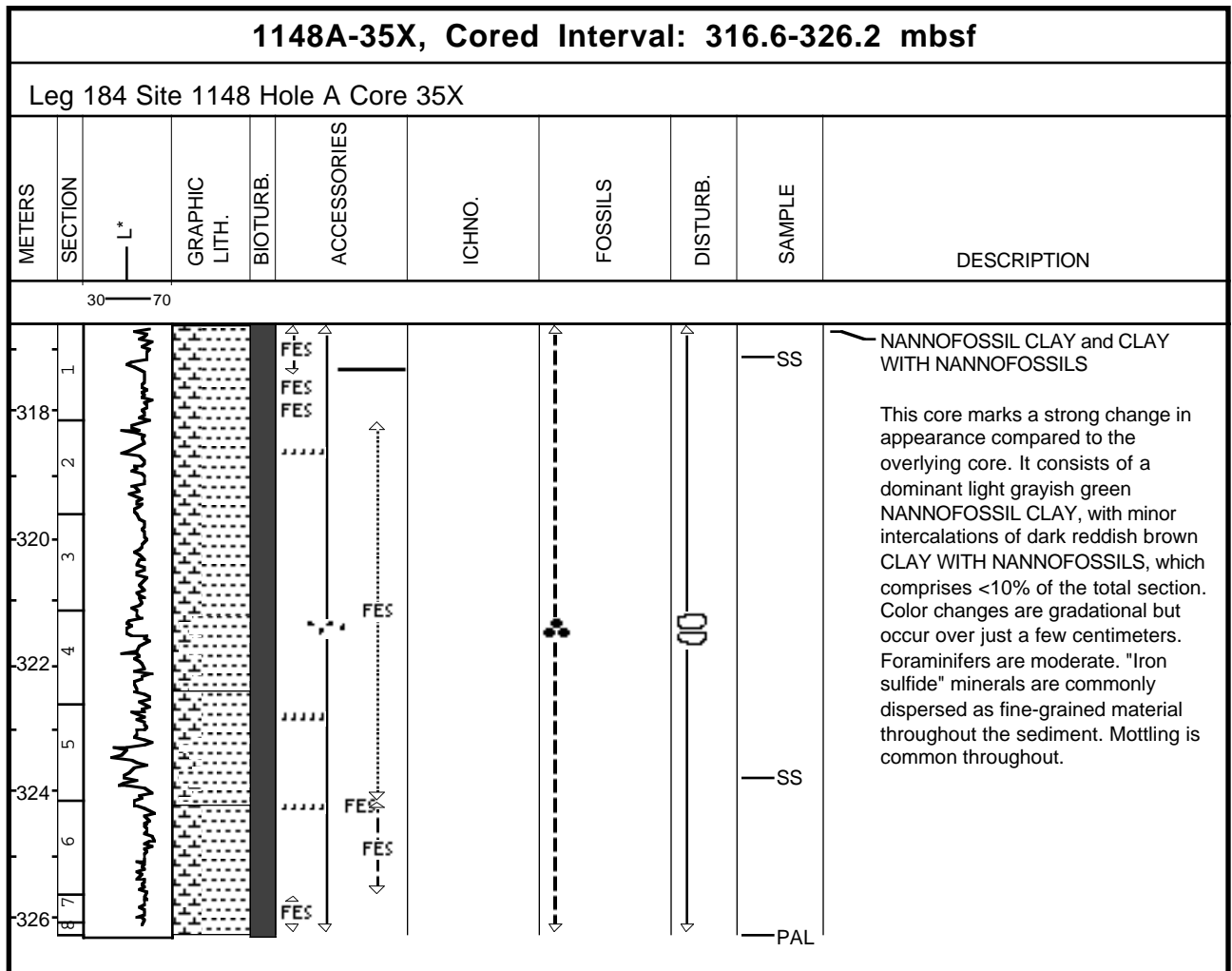
Core Photo



Core Photo



Core Photo



Core Photo

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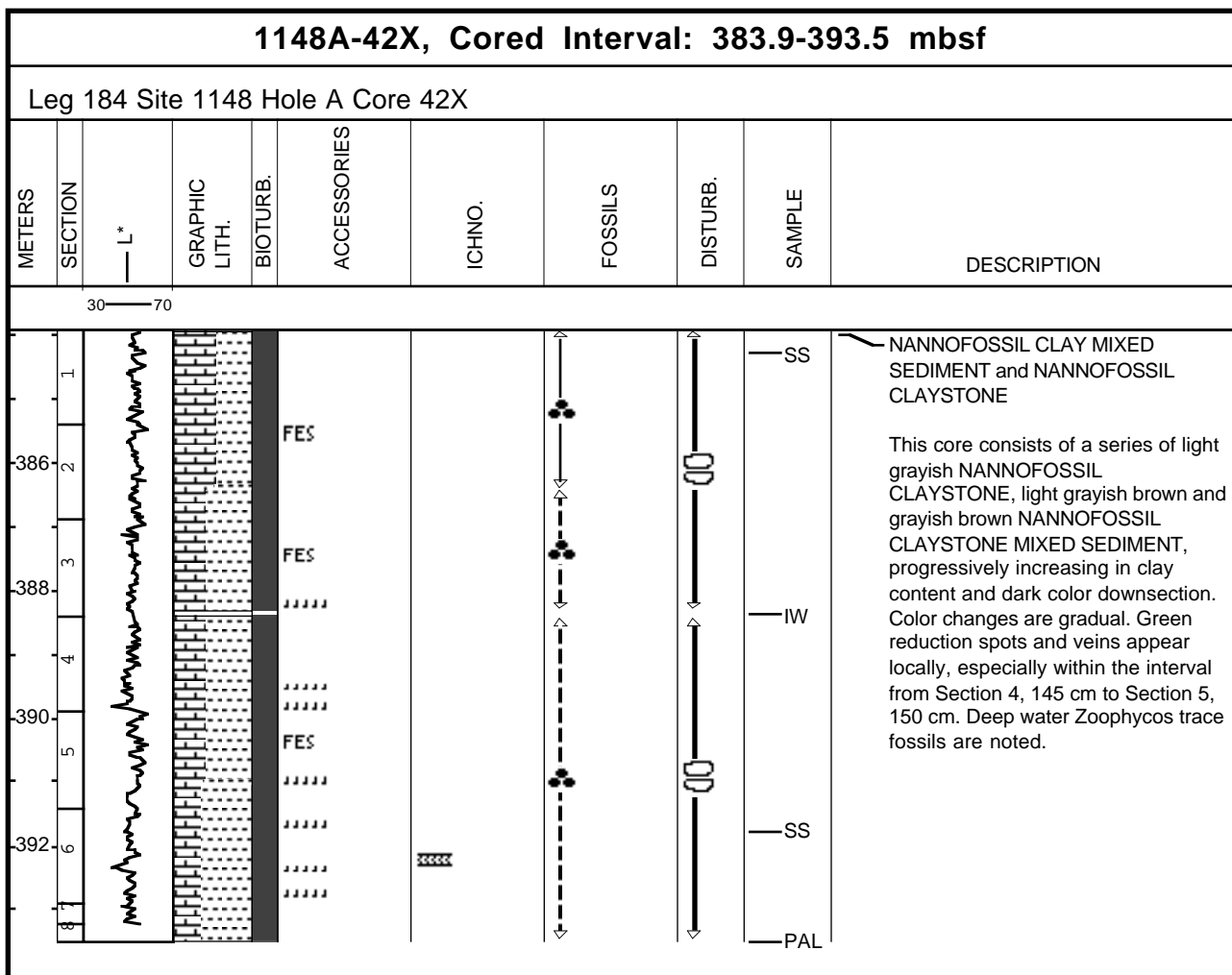
Core Photo

1148A-40X, Cored Interval: 364.5-374.2 mbsf										
Leg 184 Site 1148 Hole A Core 40X										
METERS	SECTION	— L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
3070										
366	1									<p>NANNOFOSSIL CLAYSTONE and NANNOFOSSIL CLAY MIXED SEDIMENT</p> <p>This core consists of light grayish green NANNOFOSSIL CLAY MIXED SEDIMENT interbedded with minor darker brownish NANNOFOSSIL CLAYSTONE. Color changes are typically gradational over vertical distances of 1-3 cm.</p> <p>Mottling is rare. The sediment generally appears reddish and oxidized, but with localized zones of patchy greenish reduction, not clearly related to lithologic changes.</p>
368	2									
370	3									
372	4									
374	5									
	6									
	7									
	8									

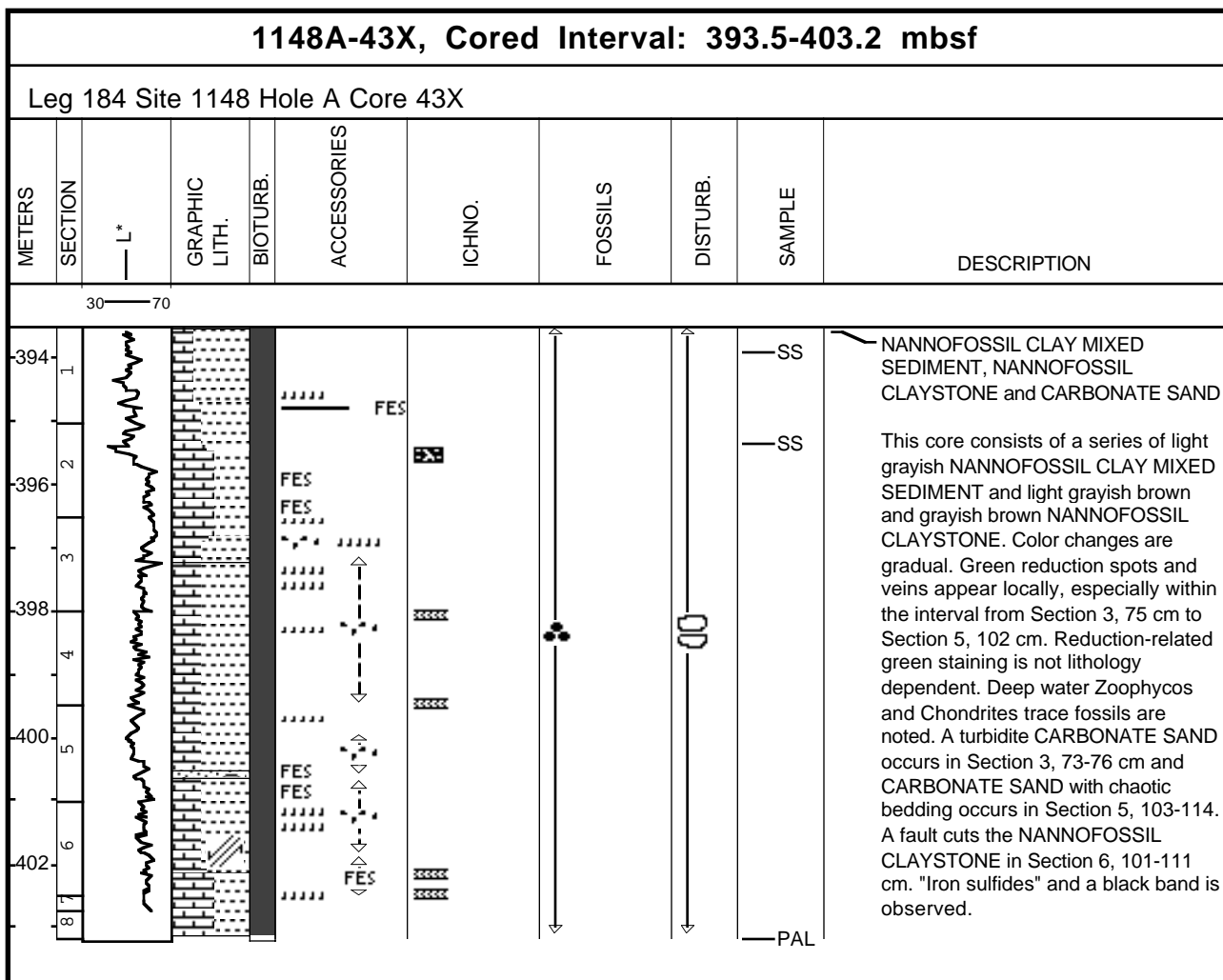
Core Photo

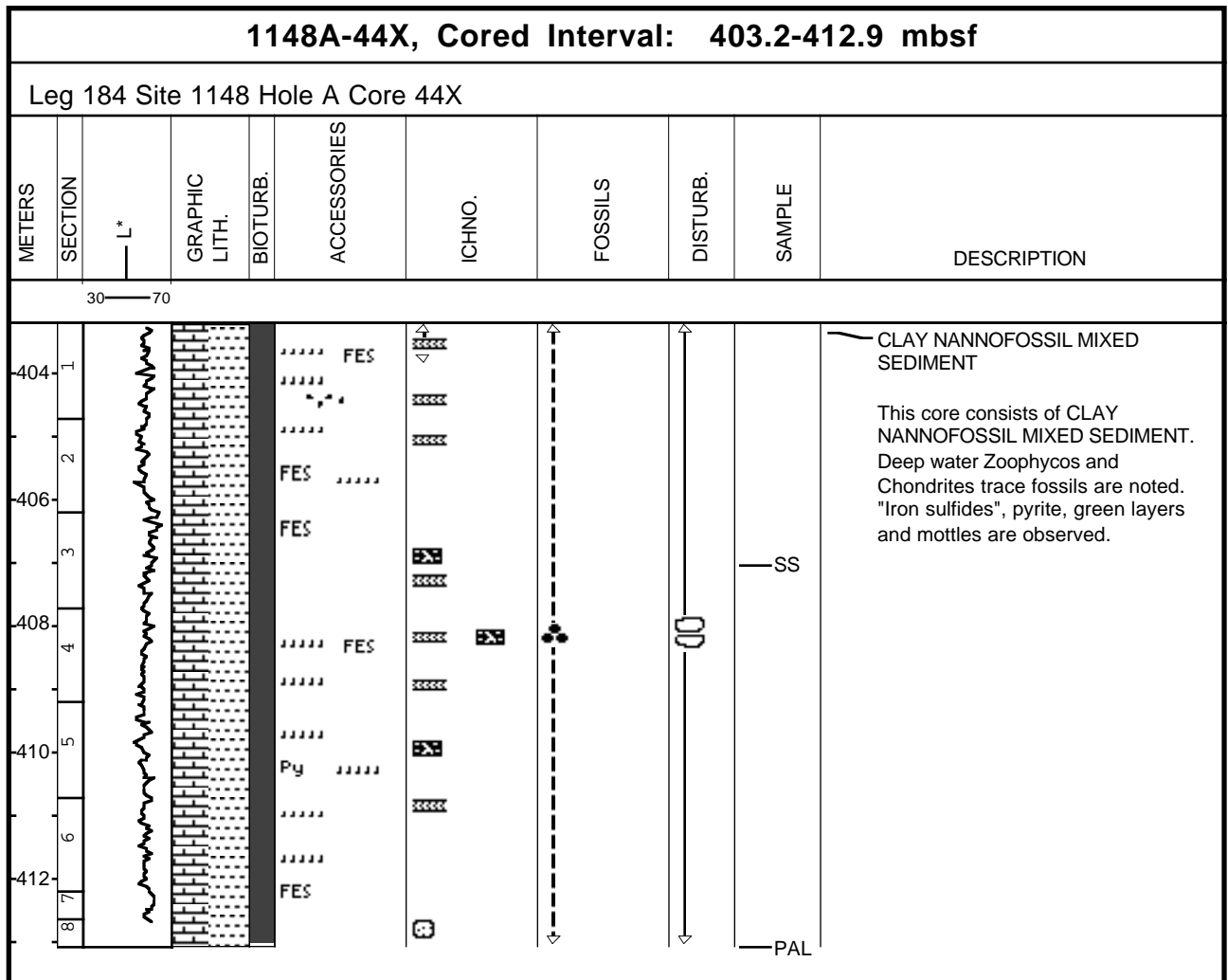
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Core Photo

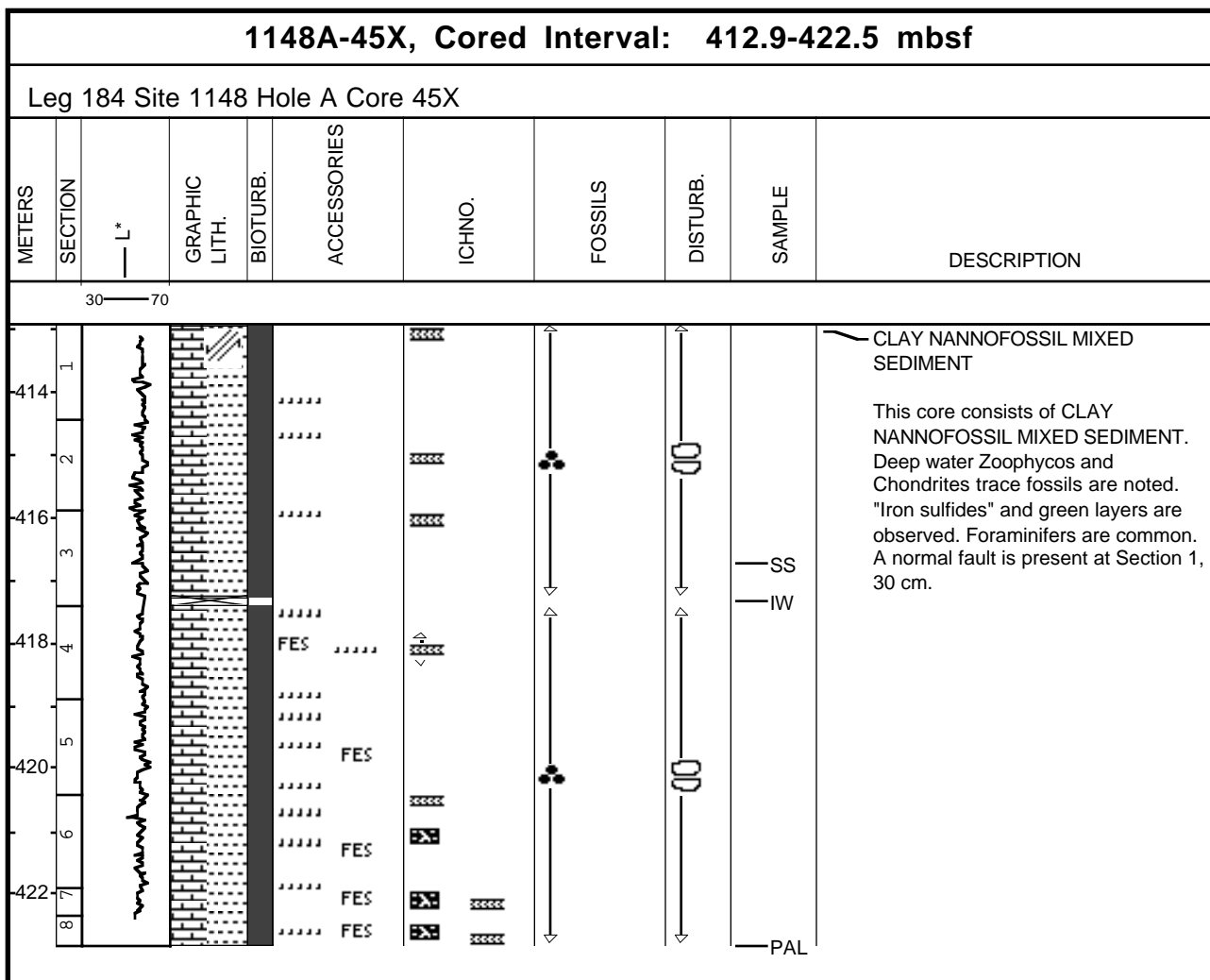


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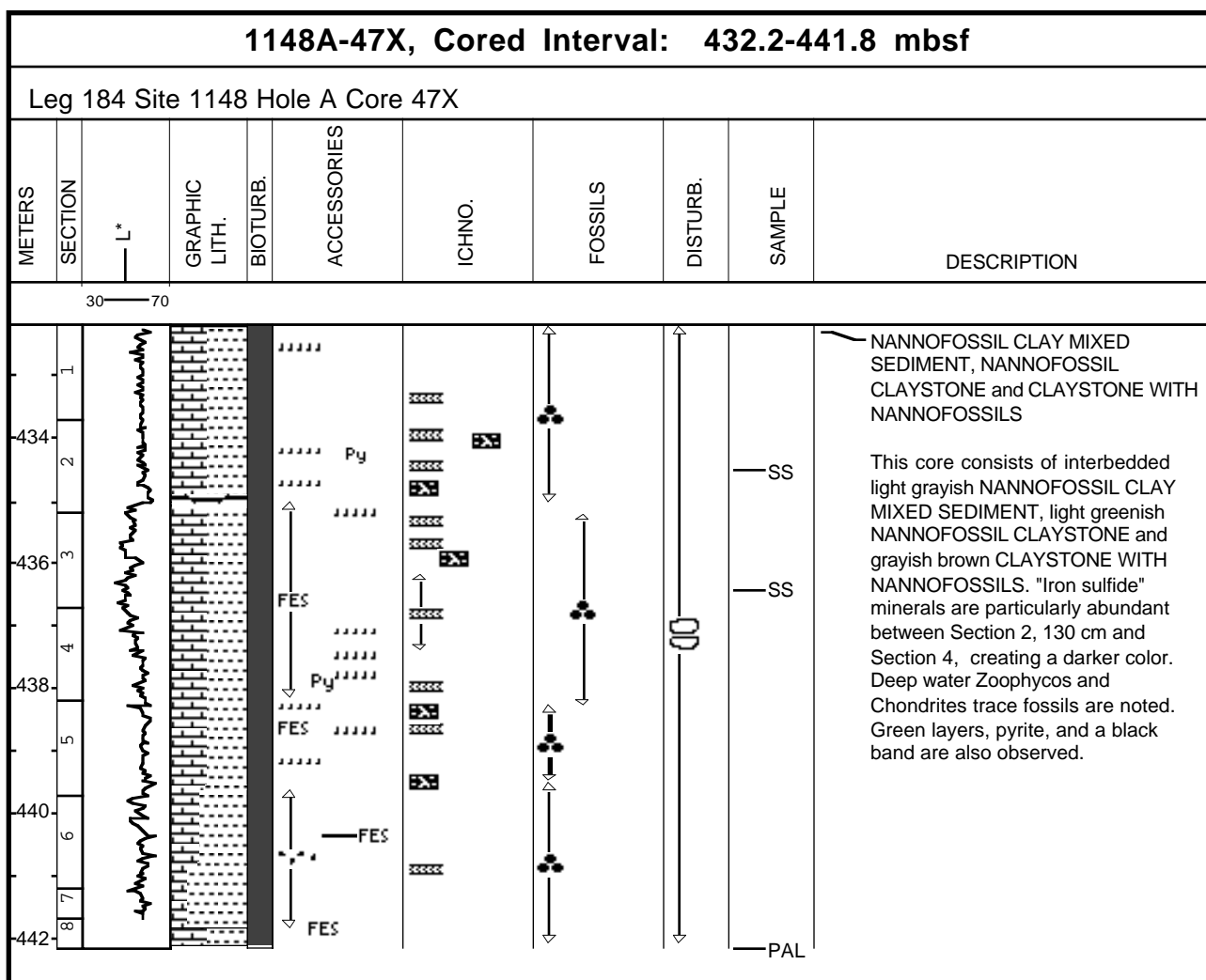


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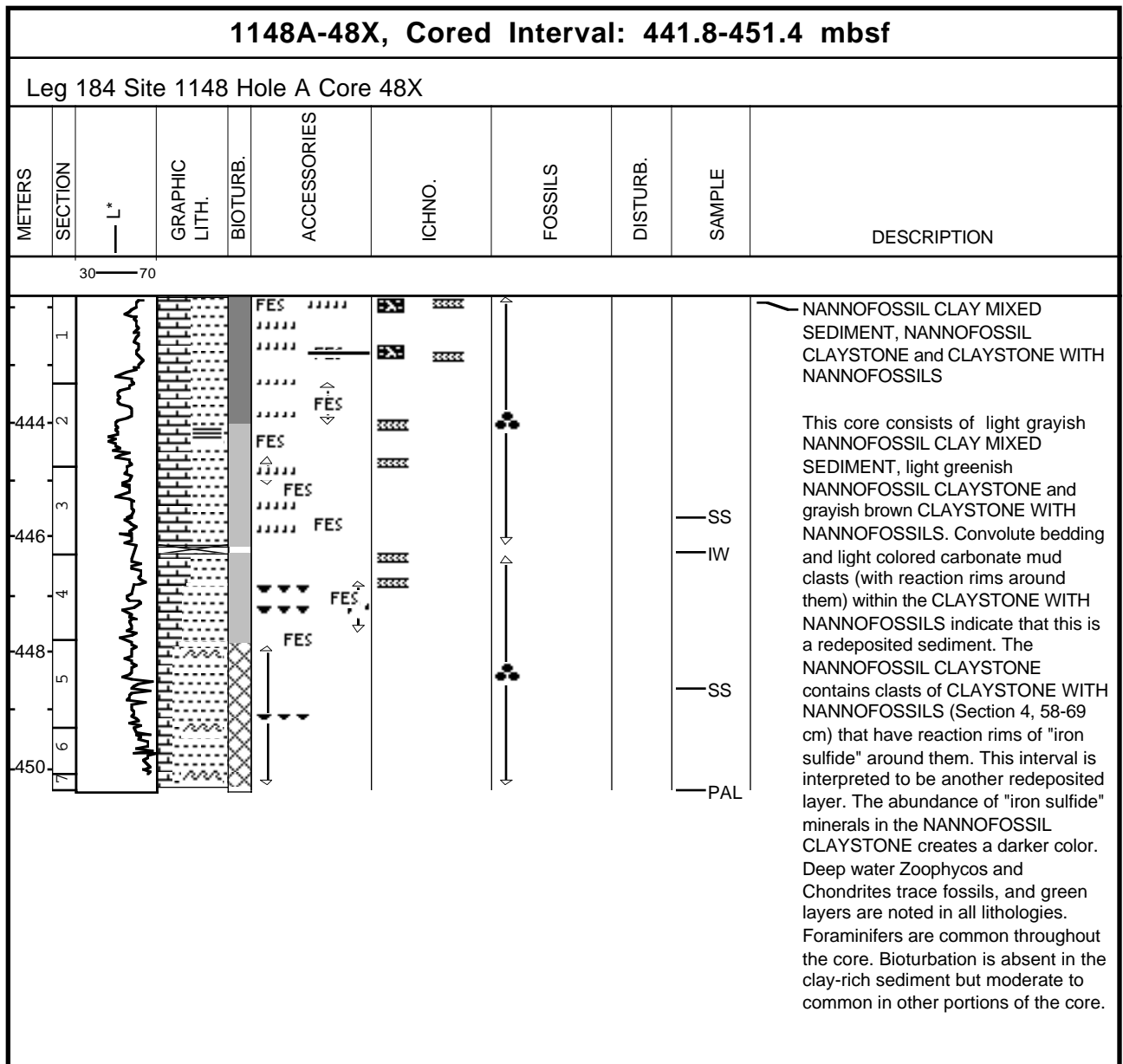


1148A-46X, Cored Interval: 422.5-432.2 mbsf										
Leg 184 Site 1148 Hole A Core 46X										
METERS	SECTION	L*	GRAPHIC LITH.	BIO TURB.	ACCESSORIES	ICHO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="display: flex; align-items: center;"> <div style="width: 100px; border-left: 1px solid black; border-right: 1px solid black; margin: 0 5px;"></div> <div style="margin: 0 5px;">30</div> <div style="margin: 0 5px;">70</div> </div> <div style="flex-grow: 1;"> </div> </div>										

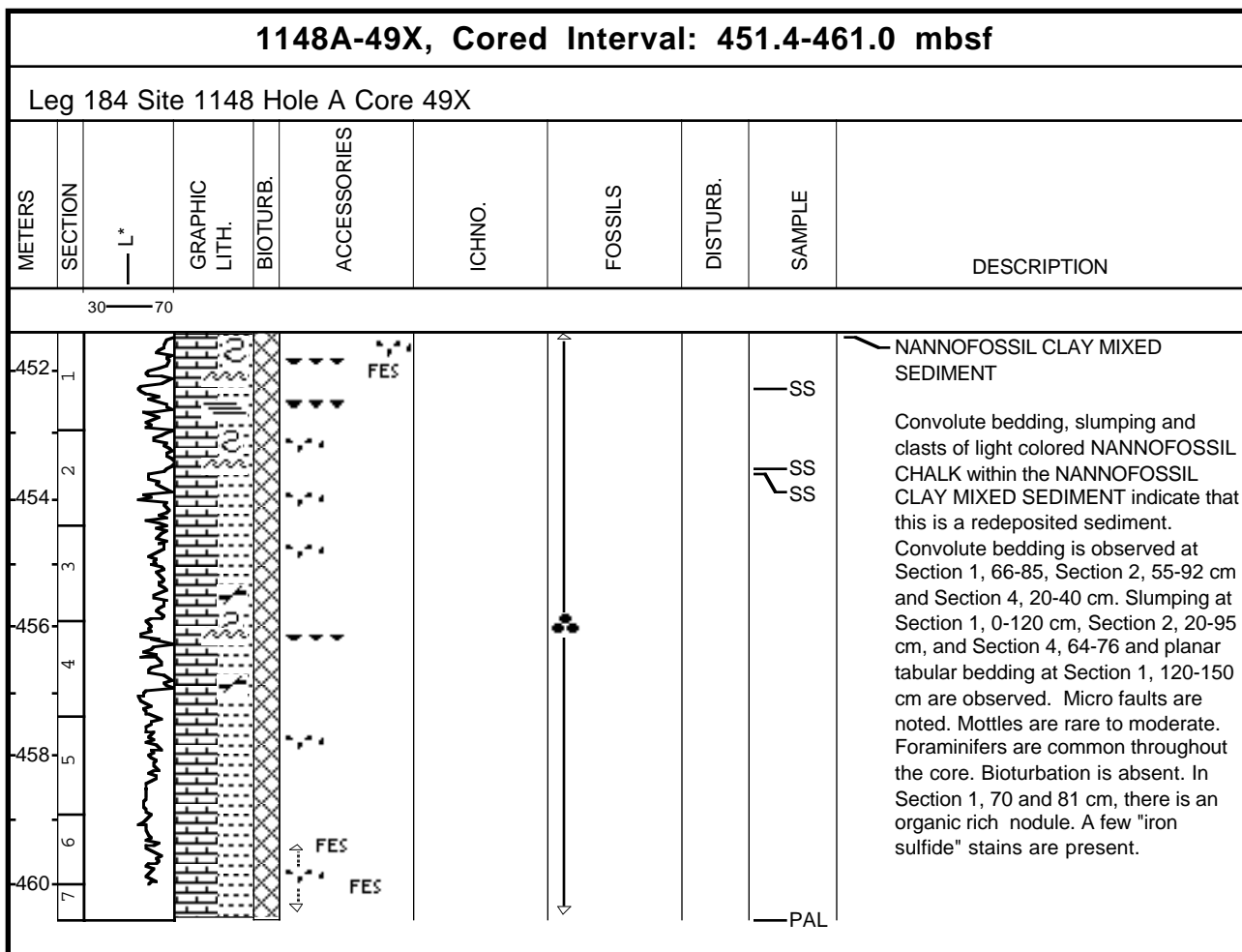
Core Photo




Core Photo









Core Photo










1148A-51X, Cored Interval: 468.0-473.1 mbsf										
Leg 184 Site 1148 Hole A Core 51X										
METERS	SECTION	L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
<div><div><div>3070</div><div></div></div><div><div>SS</div><div>PAL</div><div>NANNOFOSSIL CLAYSTONE</div></div><div><p>The sediment in this core is greenish gray NANNOFOSSIL CLAYSTONE. Most of the core is fissile and very brecciated, but the interval from 11-24 cm in the core catcher is relatively intact. The sediment is structureless. Within the homogenous sediment a small number of 1-3 mm intense dark green spots are noted (glauconite?). Foraminifers are moderate.</p></div></div>										

1148A-52X, Cored Interval: 473.1-477.7 mbsf										
Leg 184 Site 1148 Hole A Core 52X										
METERS	SECTION	L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
30	70									
<p>The sediment in this core is dark olive green NANNOFOSSIL CLAYSTONE. The interval 0-6 cm is composed of a lighter green clast of the same lithology recovered in Core 51X, which is massive and marked by small numbers of intense dark green spots, probably glauconite. Most of the sediment is highly fractured, but the interval 12-23 cm is fairly intact. The dark material is weakly laminated and clearly bioturbated, the laminae are apparently flattened burrows. Foraminifers are common.</p>										






Core Photo

1148A-53X, Cored Interval: 477.7-482.7 mbsf										
Leg 184 Site 1148 Hole A Core 53X										
METERS	SECTION	L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
		30 — 70								
478.	1								SS SS PAL	<div>NANNOFOSSIL CLAYSTONE</div> <div>The sediment in this core is dark olive green NANNOFOSSIL CLAYSTONE. The sediment displays many fine horizontal laminations in varying shades of dark green and greenish brown which are probably flattened burrows. Bioturbation is clear, as are the common foraminifers on the cut core face. There are two dark gray, waxy layers in Section 1, 42-43 cm and 46-47 cm. Section 1 was dropped during processing, so that the orientation of the pieces is unknown.</div>






Core Photo

1148A-54X, Cored Interval: 482.7-487.3 mbsf										
Leg 184 Site 1148 Hole A Core 54X										
METERS	SECTION	L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
		30 — 70								
1	2								<div><div>SS</div><div>PAL</div></div>	<div><div>NANNOFOSSIL CLAYSTONE WITH FORAMINIFERS</div><div>This core comprises a homogenous section of dark olive green NANNOFOSSIL CLAYSTONE WITH FORAMINIFERS. The sediment is vaguely laminated due to compaction of the many burrows that are seen on the cut core face. Foraminifers are clearly seen on the cut core face. The core is otherwise structureless.</div></div>

Core Photo

1148A-55X, Cored Interval: 487.3-492.3 mbsf										
Leg 184 Site 1148 Hole A Core 55X										
METERS	SECTION	— L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
30 — 70										
488.1	1				Py				SS PAL	<div>NANNOFOSSIL CLAYSTONE WITH FORAMINIFERS</div> <div>This core comprises a homogenous section of dark olive green NANNOFOSSIL CLAYSTONE WITH FORAMINIFERS. The sediment is vaguely laminated due to compaction of the many burrows that are seen on the cut core face. Foraminifers are clearly seen on the cut core face. The core is otherwise structureless.</div>

Core Photo





1148A-56X, Cored Interval: 492.3-501.7 mbsf										
Leg 184 Site 1148 Hole A Core 56X										
METERS	SECTION	— L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
30 — 70										
494.2	1								SS PAL	<div>NANNOFOSSIL CLAYSTONE WITH FORAMINIFERS</div> <div>This core comprises a homogenous section of dark olive green NANNOFOSSIL CLAYSTONE WITH FORAMINIFERS. The sediment is vaguely laminated due to compaction of burrows. Foraminifers are clearly seen on the cut core face. The core is otherwise structureless.</div>

Core Photo

1148A-58X, Cored Interval: 511.3-521.0 mbsf										
Leg 184 Site 1148 Hole A Core 58X										
METERS	SECTION	— L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
30 — 70										
512	1								SS	<p>NANNOFOSSIL CLAYSTONE</p> <p>This core, which is strongly disturbed by coring, comprises a relatively homogenous sequence of grayish olive green NANNOFOSSIL CLAYSTONE. A poorly developed parallel lamination formed by compression of trace fossils is visible on the cut core face. Pyrite concretions are noted between Section 1, 54 cm and the top 20 cm of Section 2.</p>
514	2									
516	3									
	4									
	5								PAL	

1148A-59X, Cored Interval: 521.0-530.6 mbsf										
Leg 184 Site 1148 Hole A Core 59X										
METERS	SECTION	L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
30 — 70										
522 524 526 528	1 2 3 4 5 6									<p>SS</p> <p>NANNOFOSSIL CLAYSTONE</p> <p>This core, which is strongly disturbed by the coring process, comprises a relatively homogenous sequence of grayish olive green NANNOFOSSIL CLAYSTONE. There is a poorly developed parallel lamination formed by compression of trace fossils, many of which are visible on the cut core face. Pyrite nodules, up to 4 cm across, are noted in Section 2, 128-130 cm, and Section 5, 33-34 cm, while in Section 2, 38-43 cm, pyrite is seen dispersed in the sediment.</p> <p>PAL</p>

Core Photo

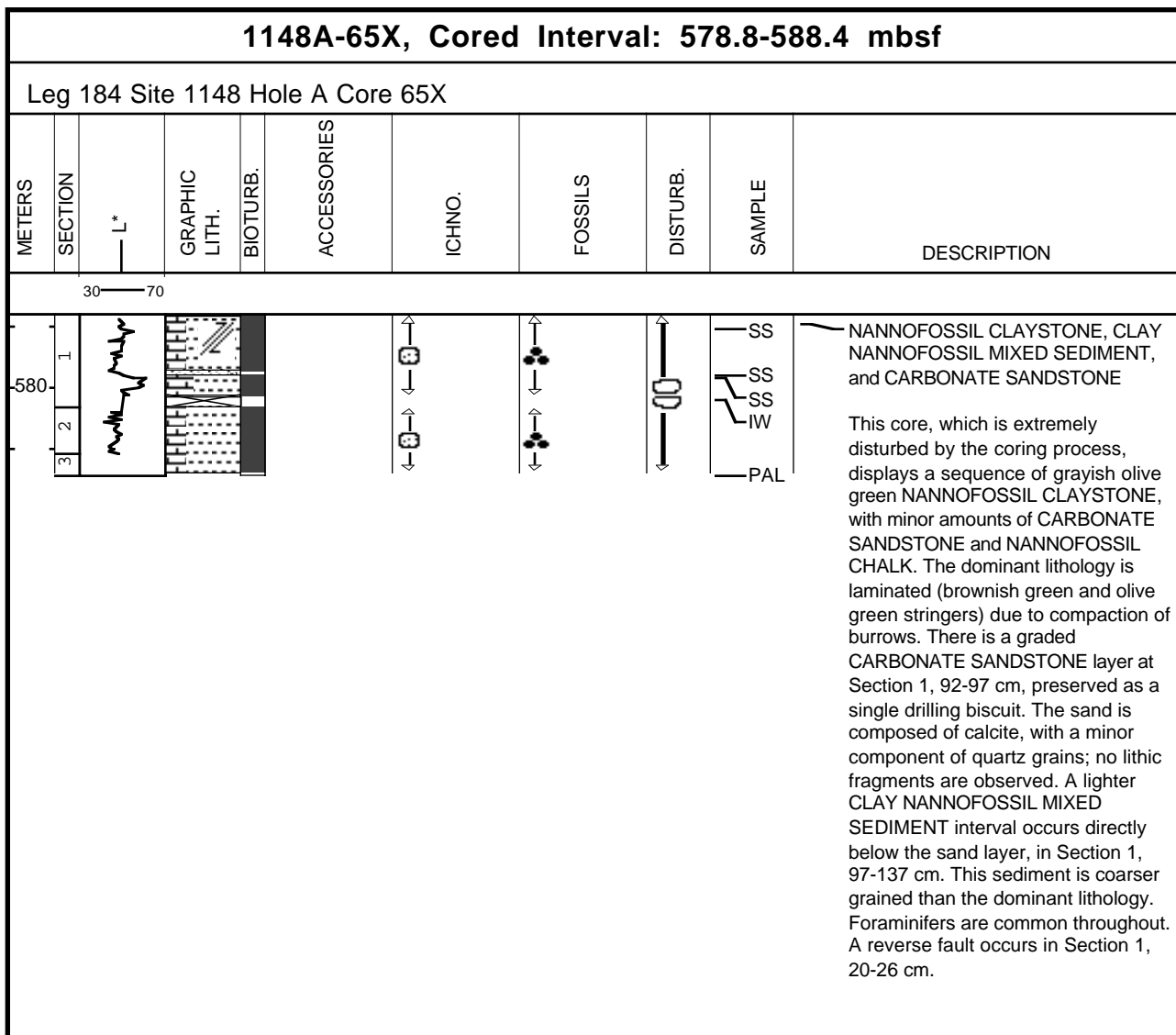
1148A-60X, Cored Interval: 530.6-540.2 mbsf										
Leg 184 Site 1148 Hole A Core 60X										
METERS	SECTION	L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
30	70									
1	2				FES				PAL	<div>NANNOFOSSIL CLAYSTONE</div> <div>This core is strongly disturbed by the coring process but shows a relatively homogenous sequence of grayish olive green NANNOFOSSIL CLAYSTONE. The sediment is seen to be vaguely laminated either from compaction of burrows or millimeter scale variations in lithology. Foraminifers are clearly seen on the cut core face. The core is otherwise structureless. "Iron sulfide" is noted in the core catcher, 12 cm.</div>

Core Photo

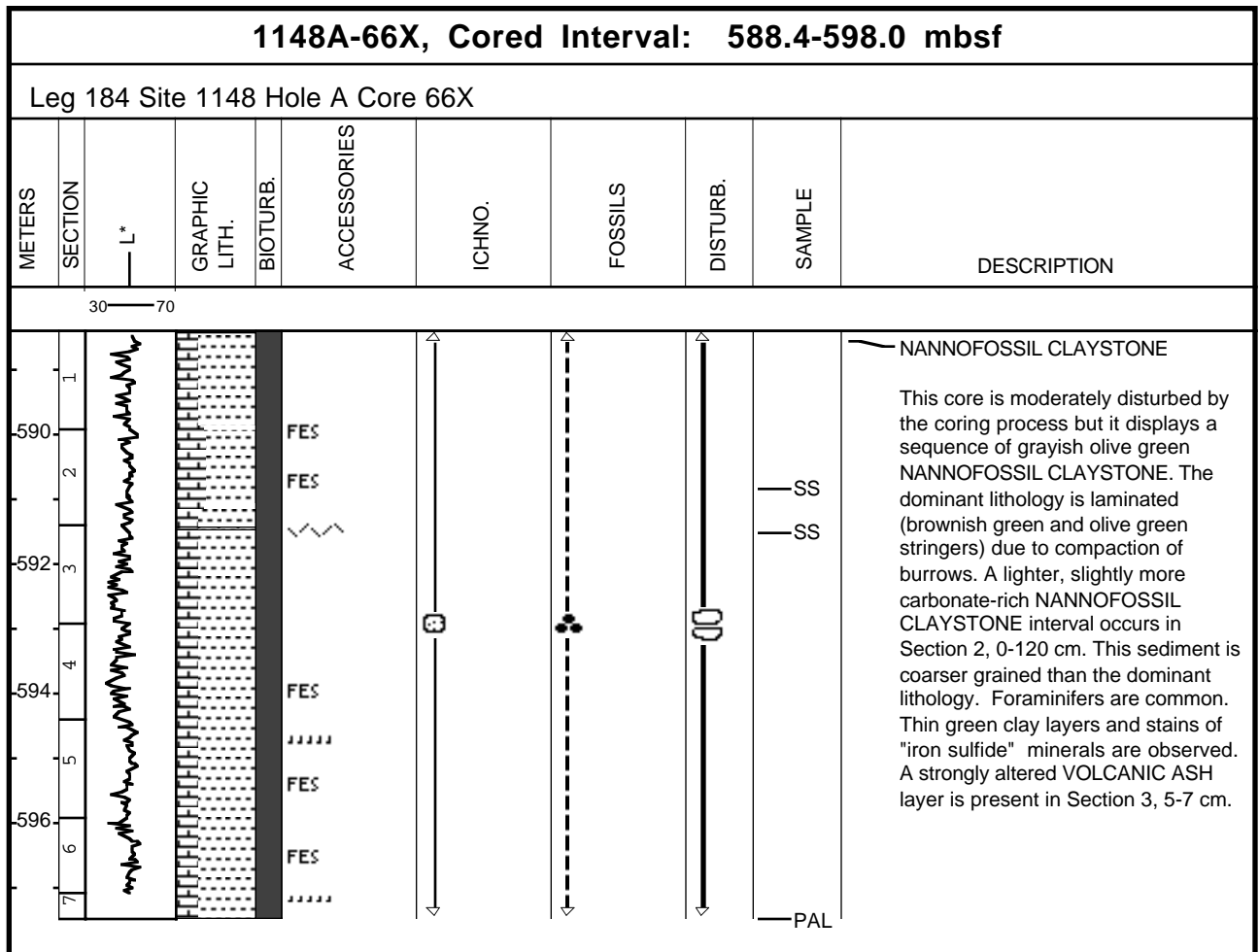
1148A-61X, Cored Interval: 540.2-549.9 mbsf										
Leg 184 Site 1148 Hole A Core 61X										
METERS	SECTION	L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
30 — 70										
1										NANNOFOSSIL CLAYSTONE This core, which is strongly disturbed by the coring process, comprises a relatively homogenous sequence of grayish olive green NANNOFOSSIL CLAYSTONE. The sediment is seen to be vaguely laminated probably due to compaction of burrows. Foraminifers are clearly seen on the cut core face.
2									SS PAL	

1148A-63X, Cored Interval: 559.5-569.1 mbsf										
Leg 184 Site 1148 Hole A Core 63X										
METERS	SECTION	L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
<div style="text-align: center;"> <p>30 ————— 70</p> </div>										
560 — 562 564	1 2 3 4								SS SS PAL	<p>NANNOFOSSIL CLAYSTONE</p> <p>This core, which is moderately to extremely disturbed by the coring process, comprises a relatively homogenous sequence of grayish olive green NANNOFOSSIL CLAYSTONE. The sediment is vaguely laminated (brownish green and olive green stringers) due to compaction of burrows. A lighter interval occurs in Section 1, 38-117 cm. Foraminifers are common.</p> <p>Quartz layer, 1 mm thick</p>

Core Photo

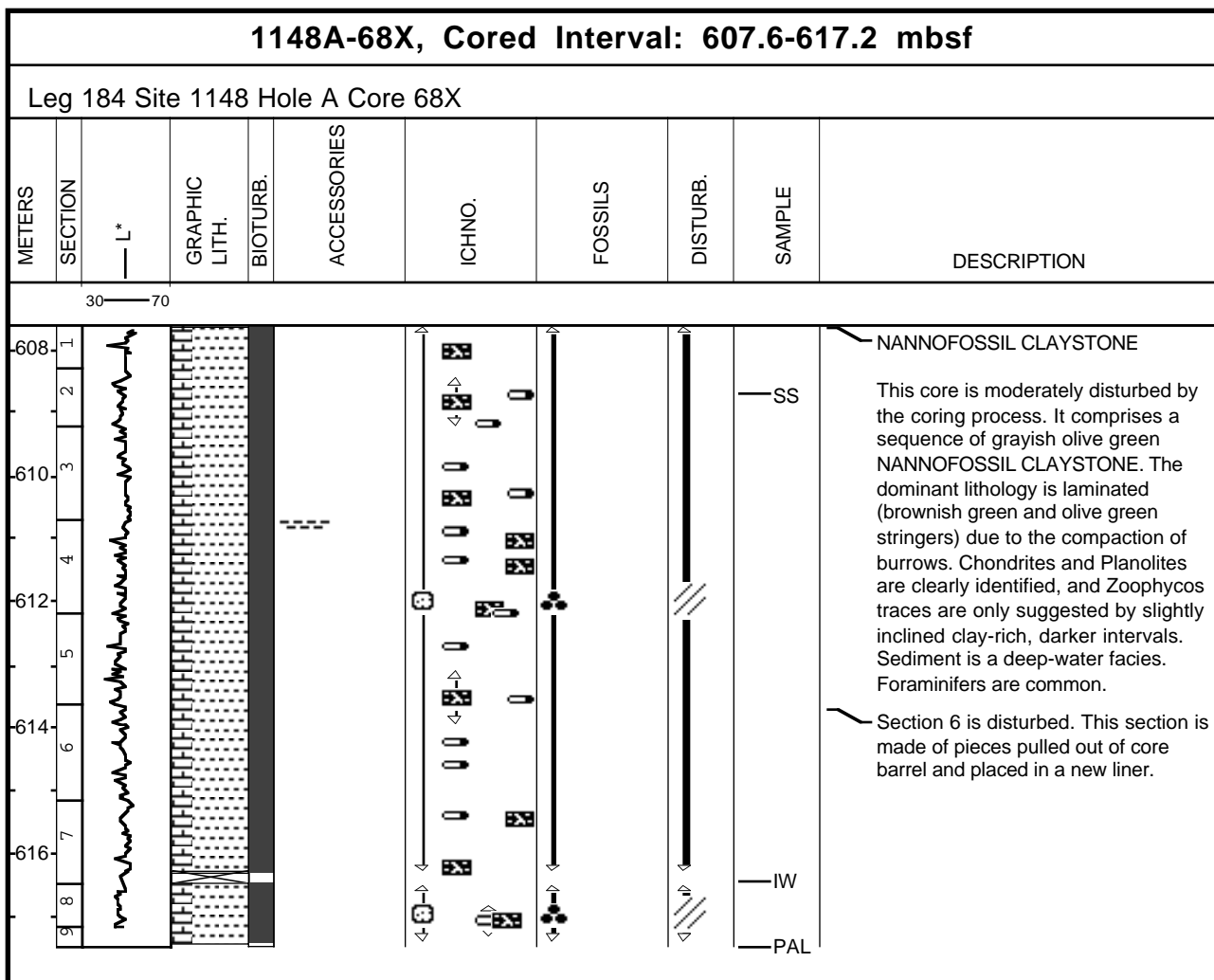


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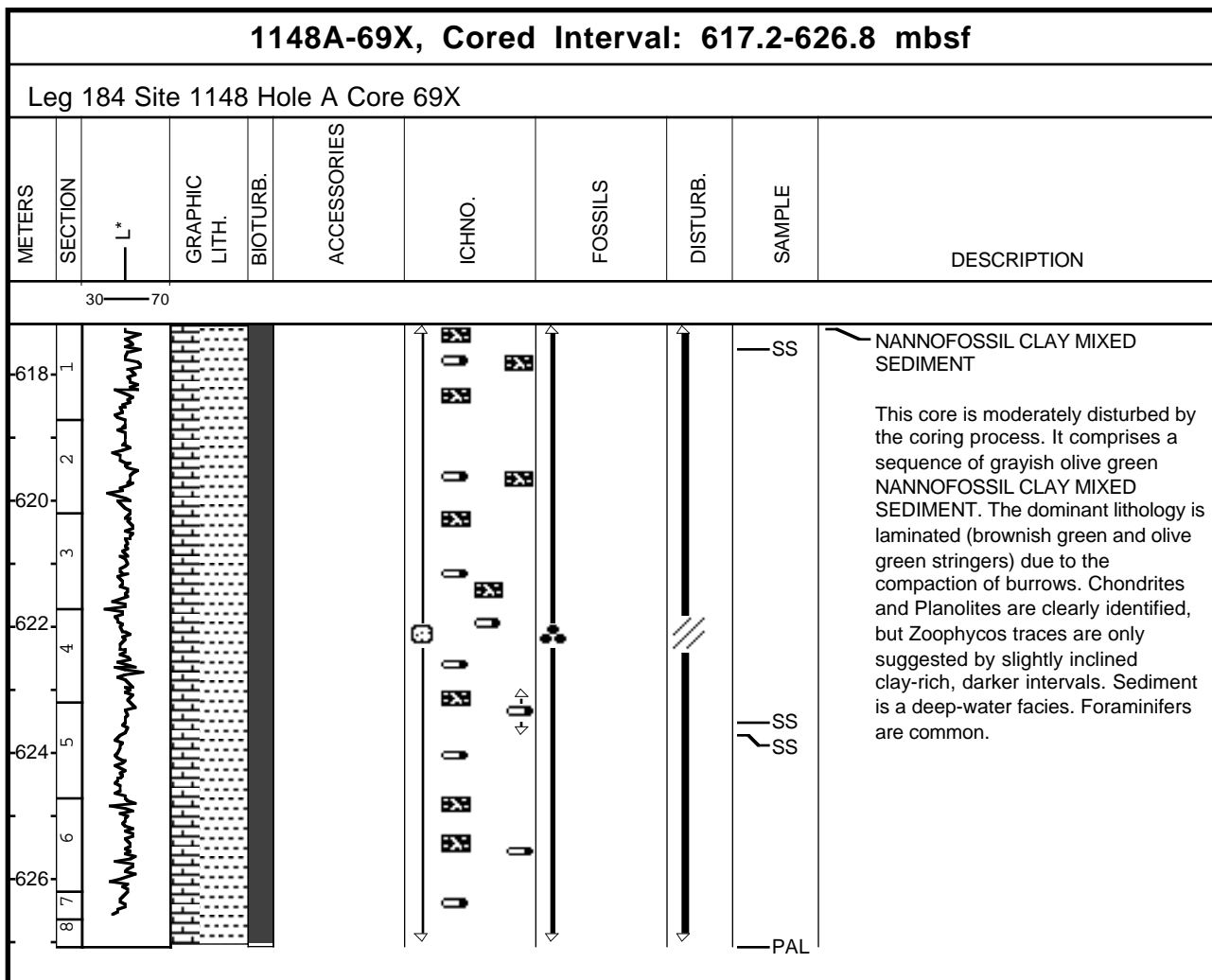


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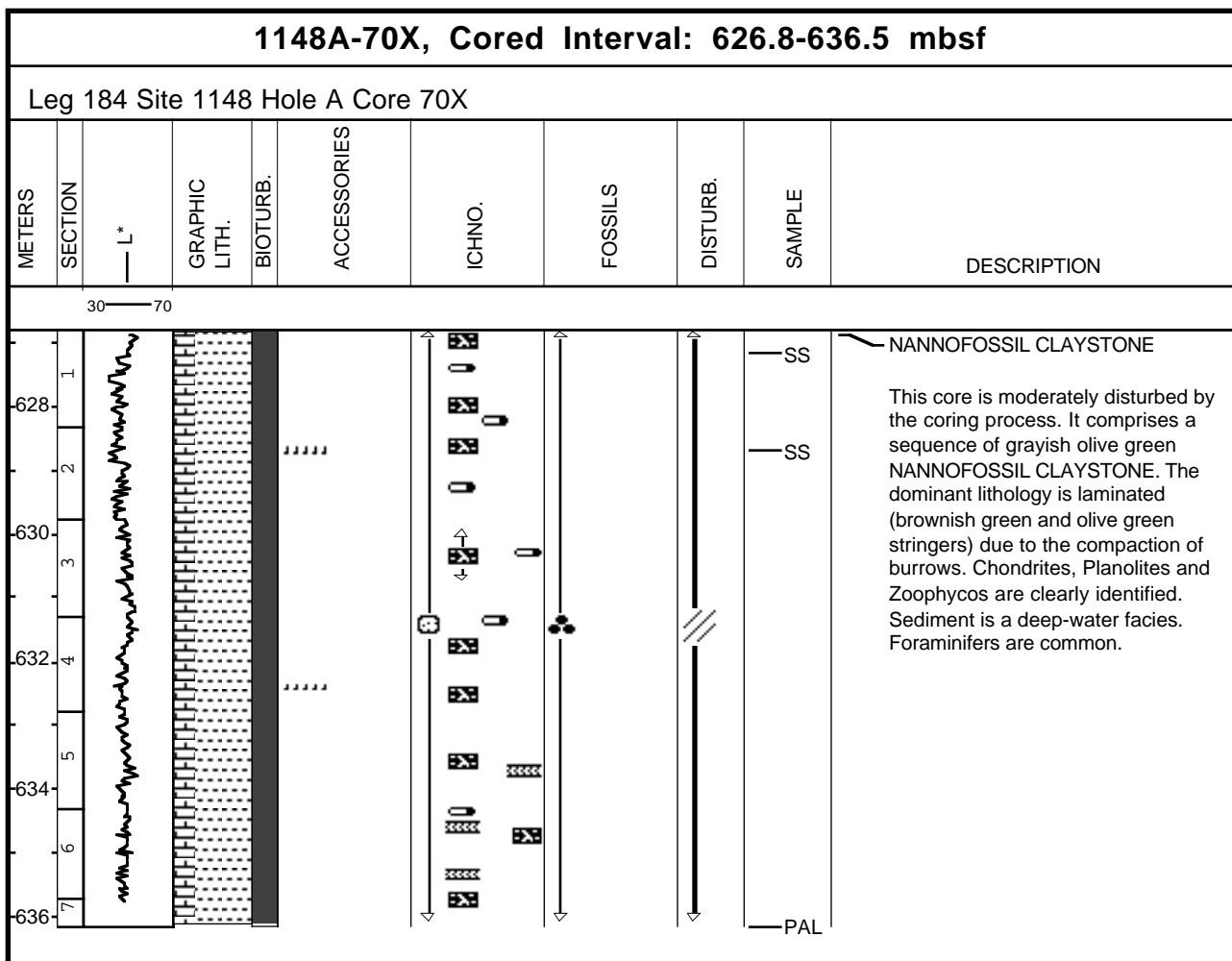
Core Photo



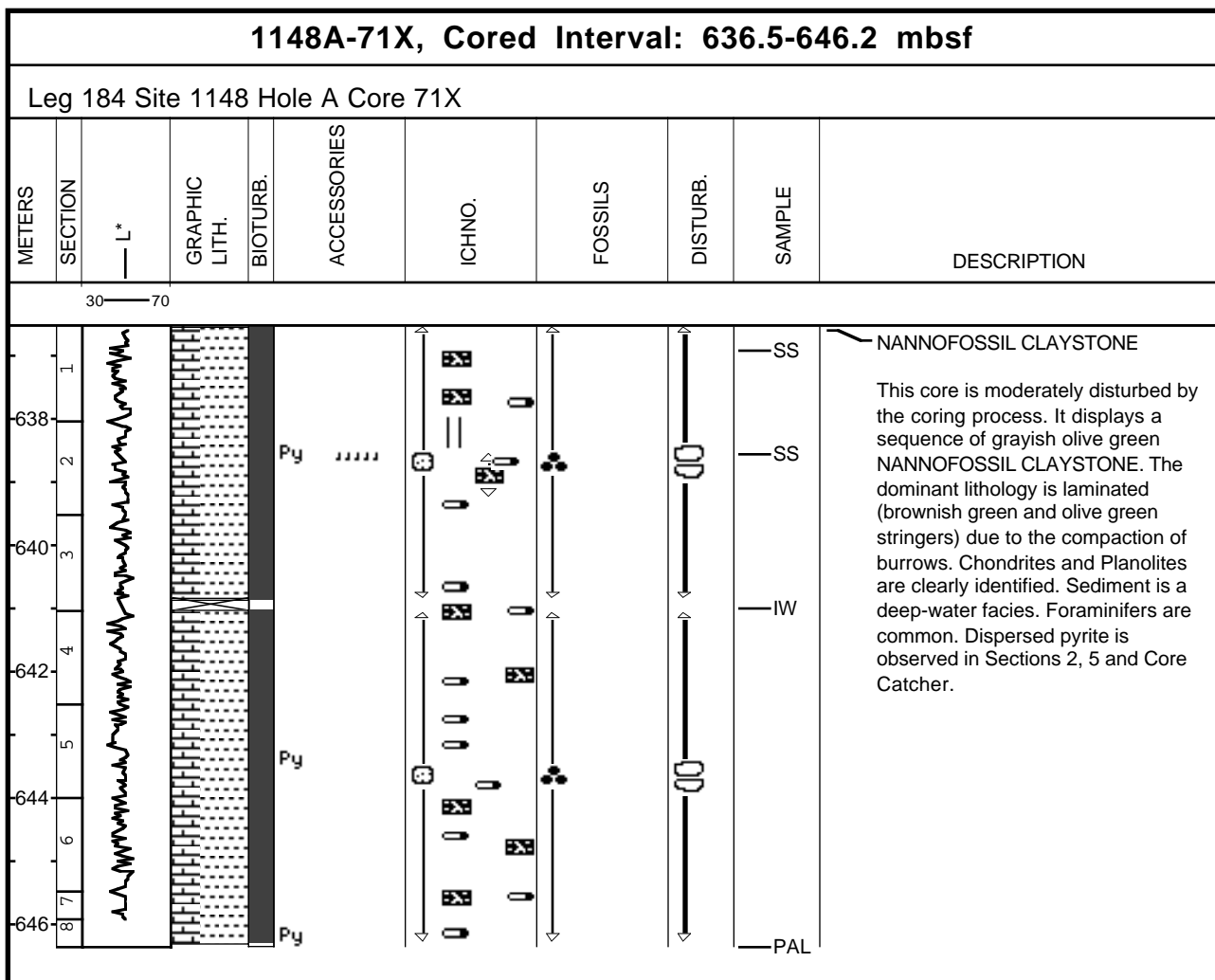
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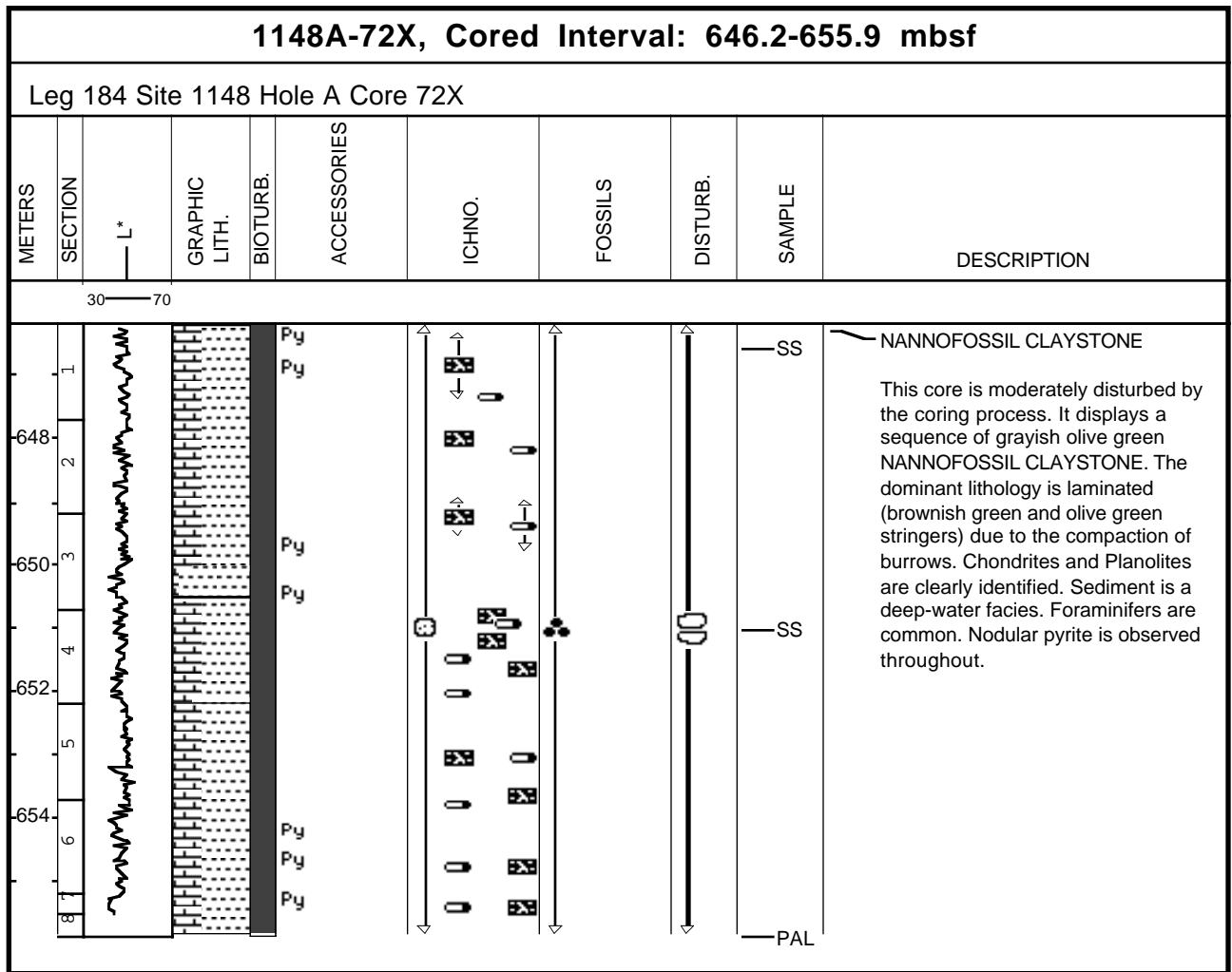


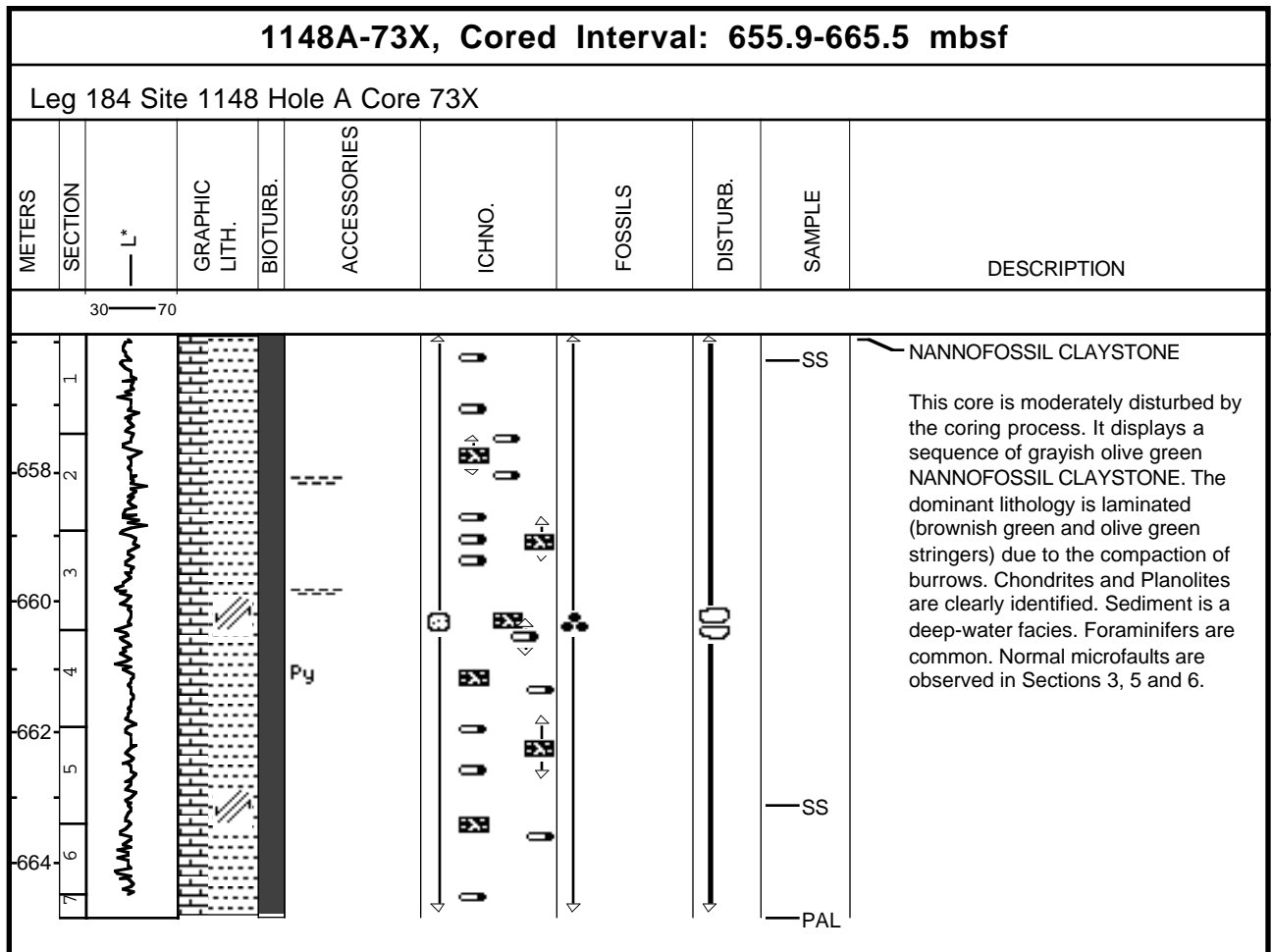
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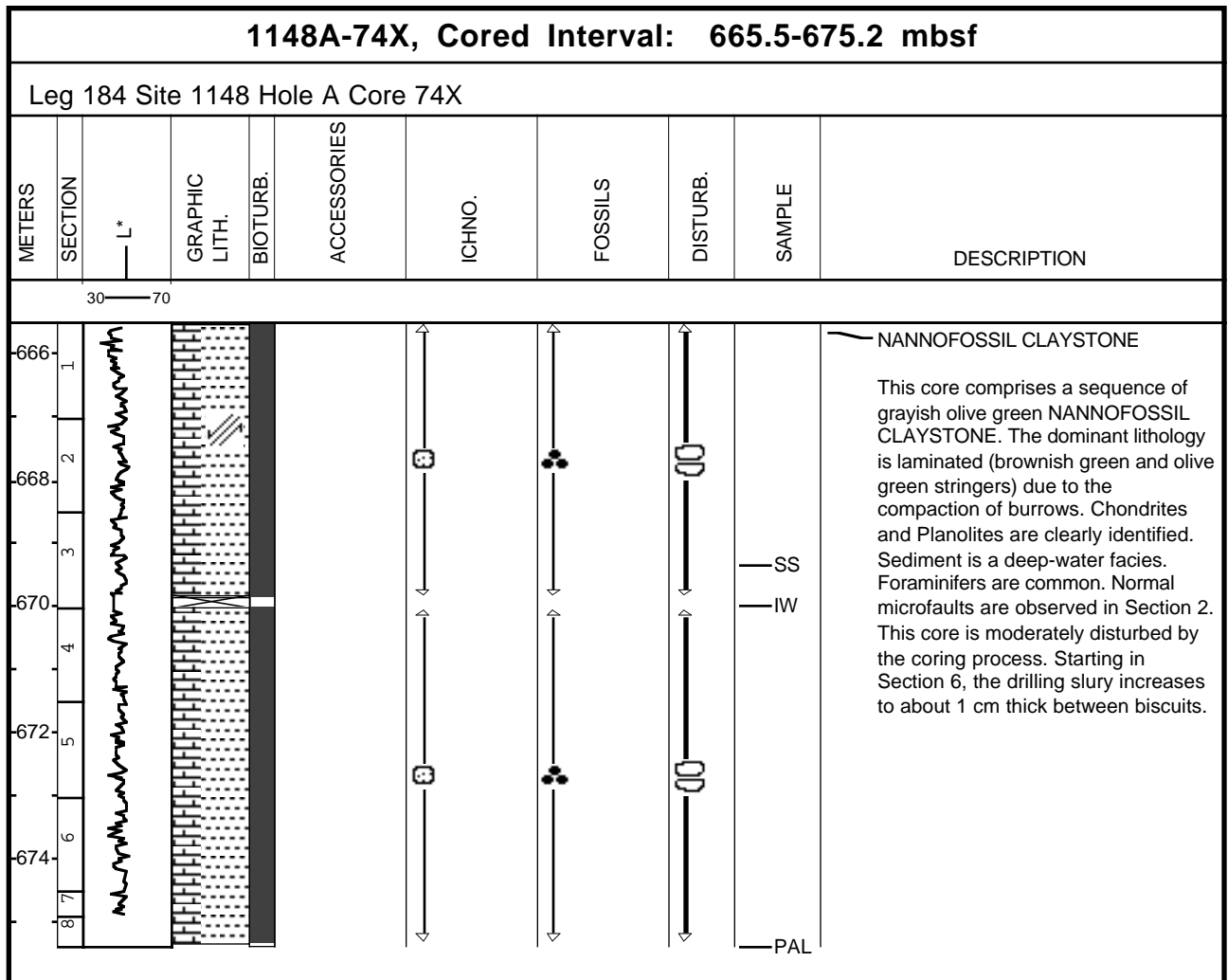
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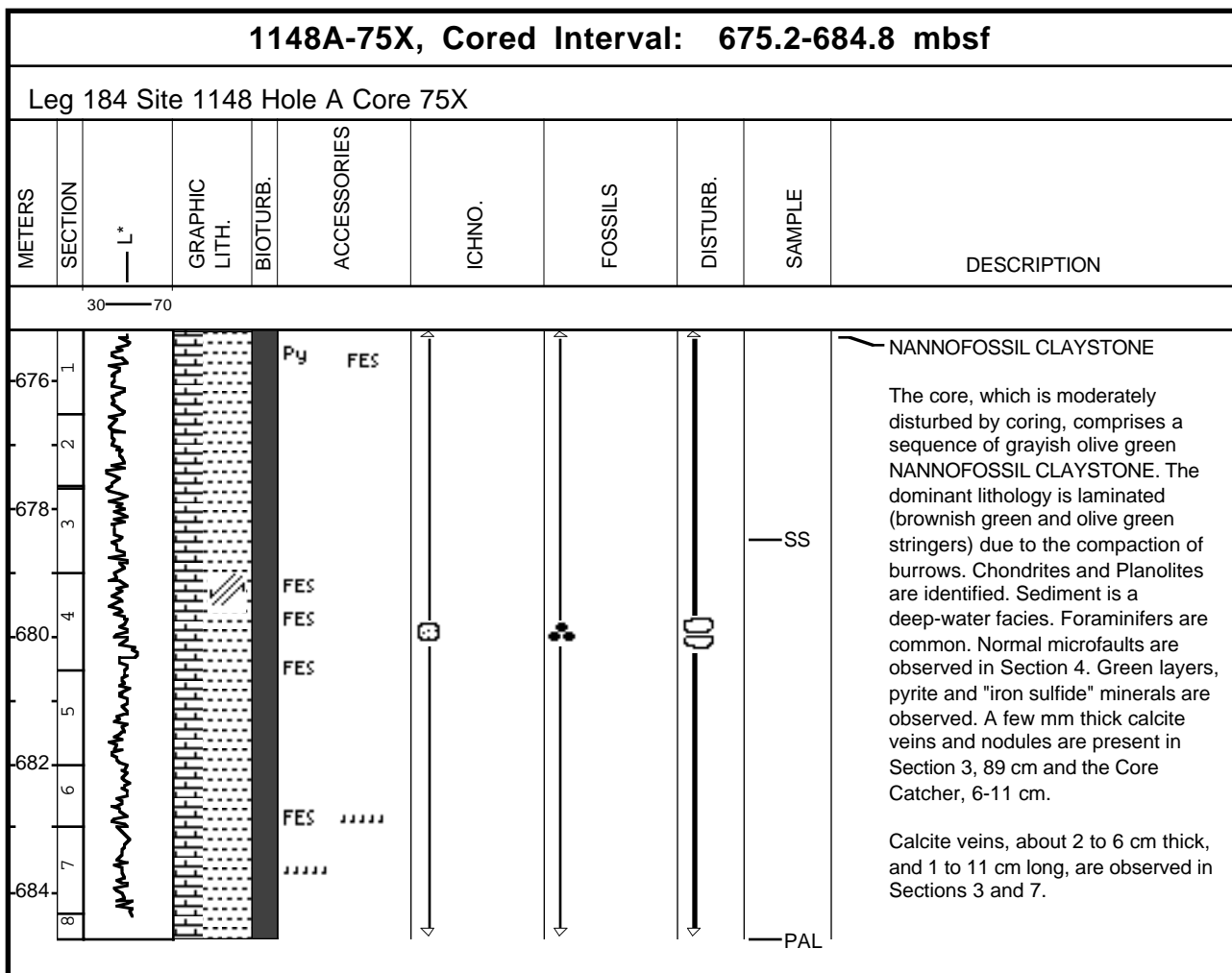




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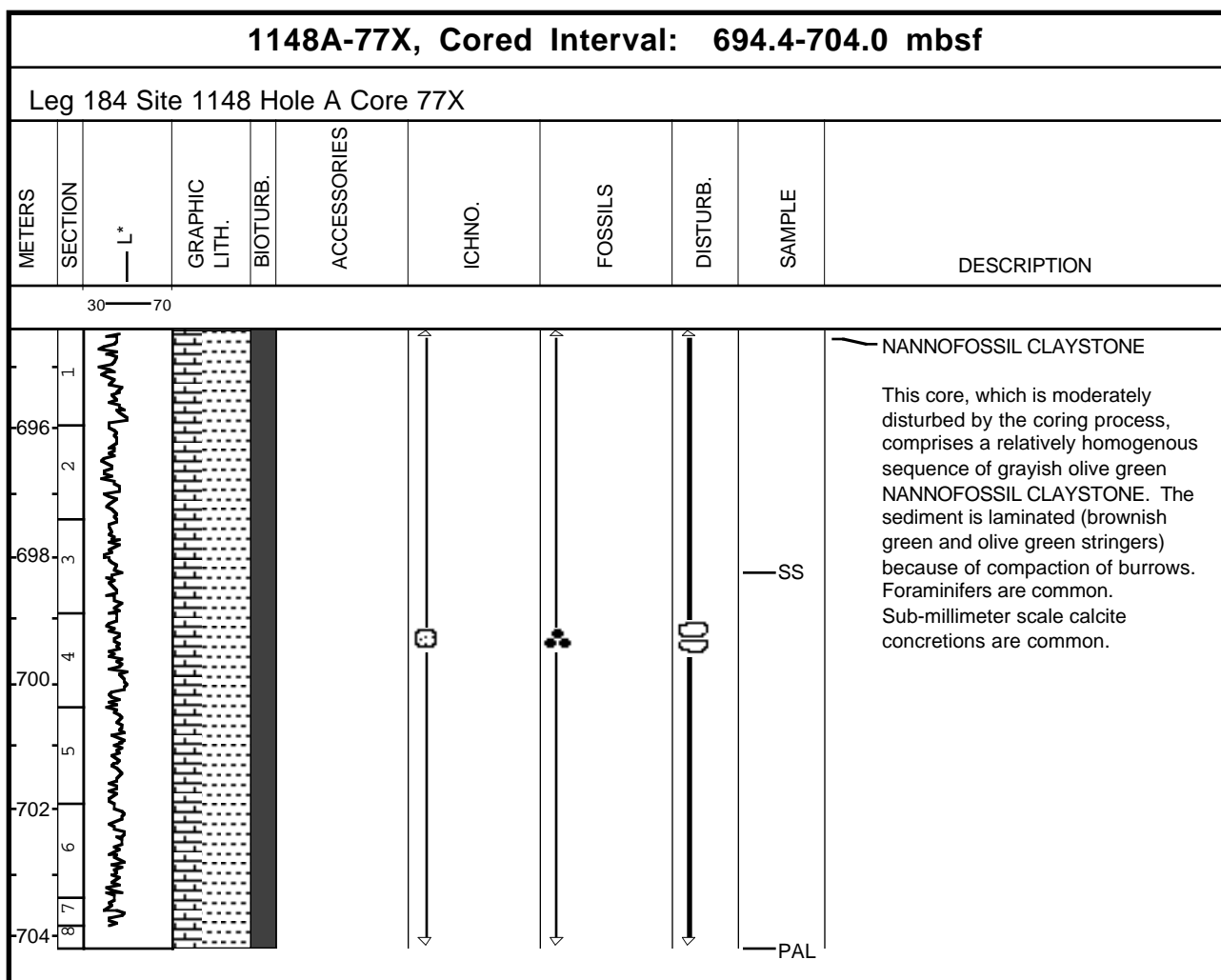


Core Photo



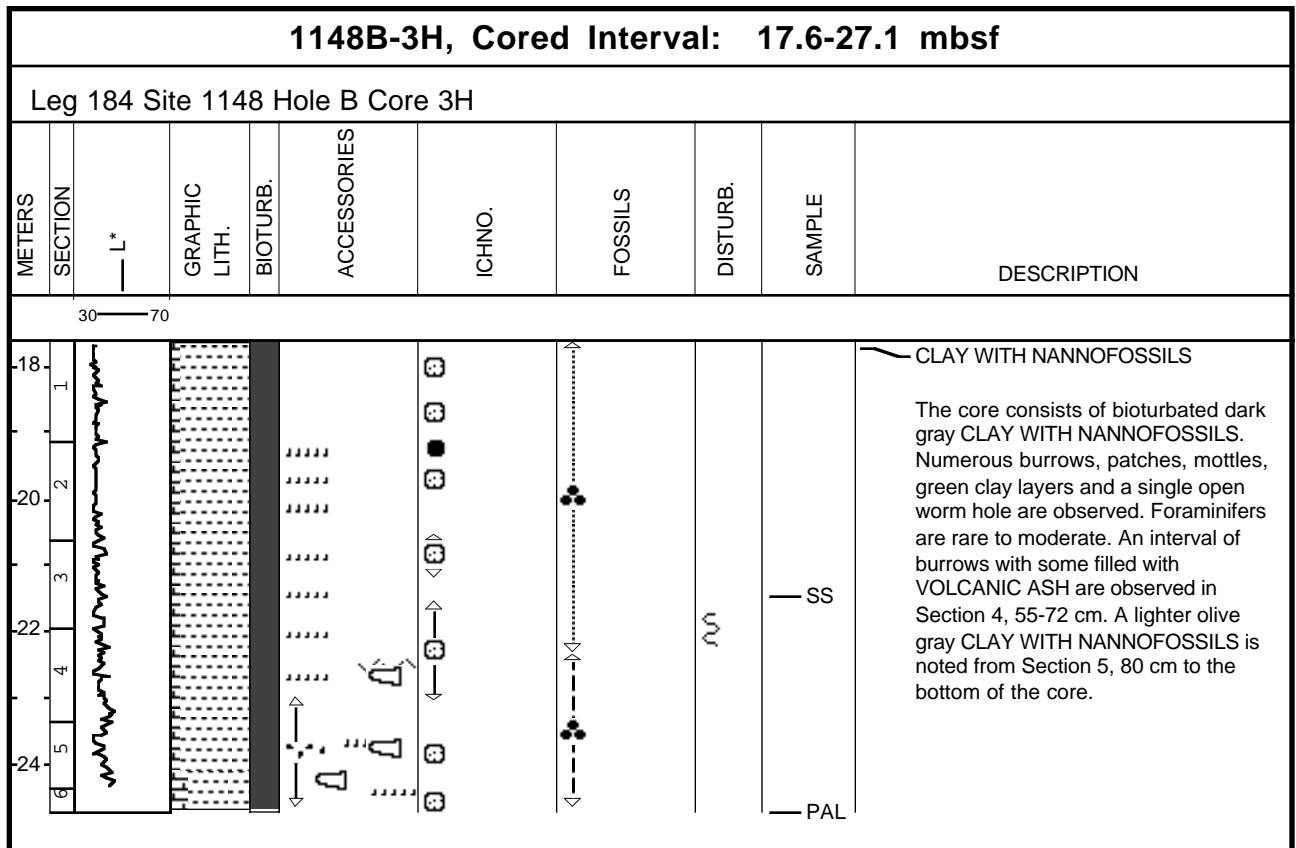
1148A-76X, Cored Interval: 684.8-694.4 mbsf								
Leg 184 Site 1148 Hole A Core 76X								
METERS	SECTION	L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.
								DESCRIPTION
<div style="text-align: center;"> </div> <div> <p>The core log displays several columns of data corresponding to different sedimentary features. From left to right, these are: Lithology (represented by patterns like dots for claystone or horizontal dashes for stringers), Bioturbation (wavy vertical lines), Ichnology (small symbols representing burrows), Fossils (dots or small shapes representing microfossils), and Disturbance (breaks or irregularities in the column). The depth axis on the far left ranges from 686 to 692 meters, with section numbers 1 through 7 indicated next to it.</p> </div> <div> <p>NANNOFOSSIL CLAYSTONE This core is moderately disturbed by the coring process. It displays a sequence of grayish olive green NANNOFOSSIL CLAYSTONE. The dominant lithology is laminated (brownish green and olive green stringers) due to the compaction of burrows. Chondrites and Planolites are identified. The sediment is a deep-water facies. Foraminifers are common. A normal microfault is observed in Section 6, 25 cm. There are sub-millimeter calcite concretions scattered throughout the core.</p> <p style="text-align: right;">SS</p> <p style="text-align: right;">PAL</p> </div>								

Core Photo



1148B-2H, Cored Interval: 8.1-17.6 mbsf										
Leg 184 Site 1148 Hole B Core 2H										
METERS	SECTION	L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
30	70									
1	2	3	4	5	10	12	14			<p>CLAY</p> <p>The core consists of a bioturbated very dark gray CLAY. Open worm holes, burrows, patches, mottles, fecal pellets, and green layers are observed. Foraminifers are rare to common.</p> <p>SS</p> <p>PAL</p>

Core Photo



Core Photo

[illegible]

1148B-6H, Cored Interval: 50.1-59.6 mbsf										
Leg 184 Site 1148 Hole B Core 6H										
METERS	SECTION	— L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p>30 — 70</p> </div> <div style="flex-grow: 1;"> <p>CLAY WITH NANNOFOSSILS</p> <p>The core consists of bioturbated very dark gray CLAY. Burrows, patches, mottles, a pyrite-filled burrow and green layers are observed. Foraminifers are rare to moderate. There is an interval (Section 5, 94-99 cm) where VOLCANIC ASH is intermixed with the CLAY. This interval appears "scaly" on the cut core surface.</p> </div> </div>										

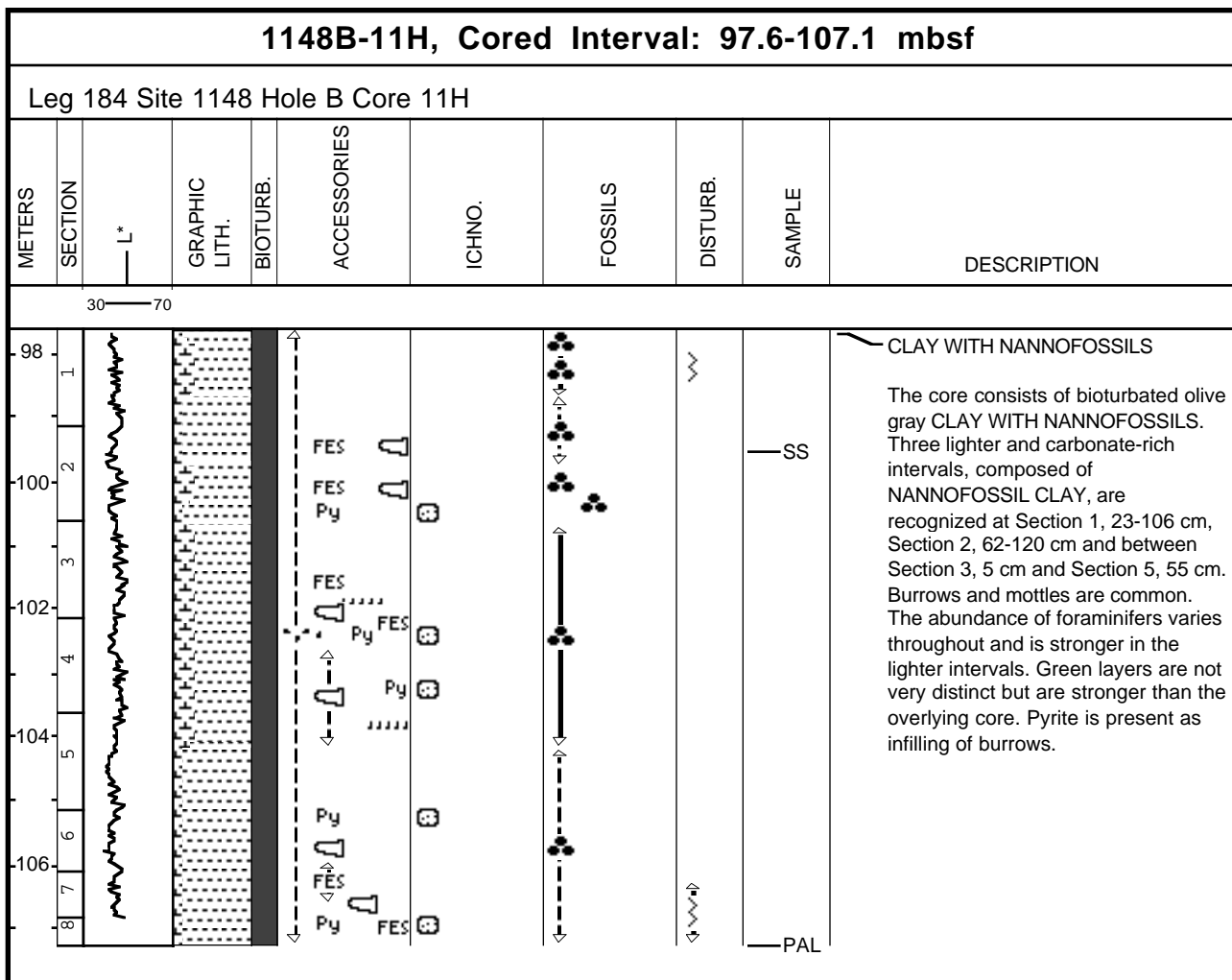
Core Photo

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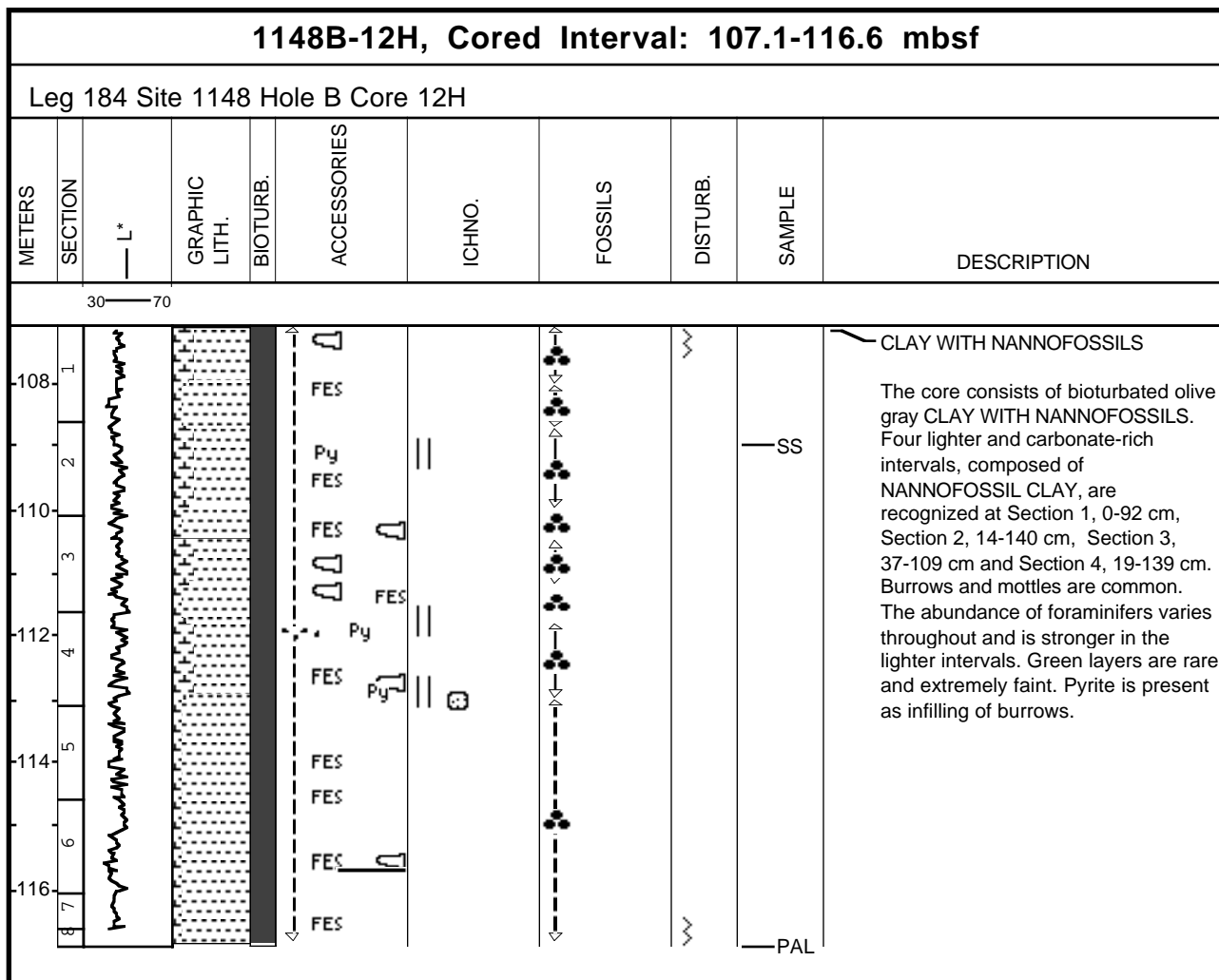
[illegible]

1148B-9H, Cored Interval: 78.6-88.1 mbsf										
Leg 184 Site 1148 Hole B Core 9H										
METERS	SECTION	— L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
30 — 70										
80	1									<p>CLAY WITH NANNOFOSSILS</p> <p>The core consists of a bioturbated very dark gray CLAY WITH NANNOFOSSILS. Burrows (some showing replacement by pyrite), patches, mottles, and green clay layers are observed. Foraminifers are rare, but locally common. Large pyrite nodules are found in Sections 2, 4 and 5.</p>
82	2									
84	3									
84	4									
86	5									
86	6									
88	7									
<p>SS</p> <p>PAL</p>										

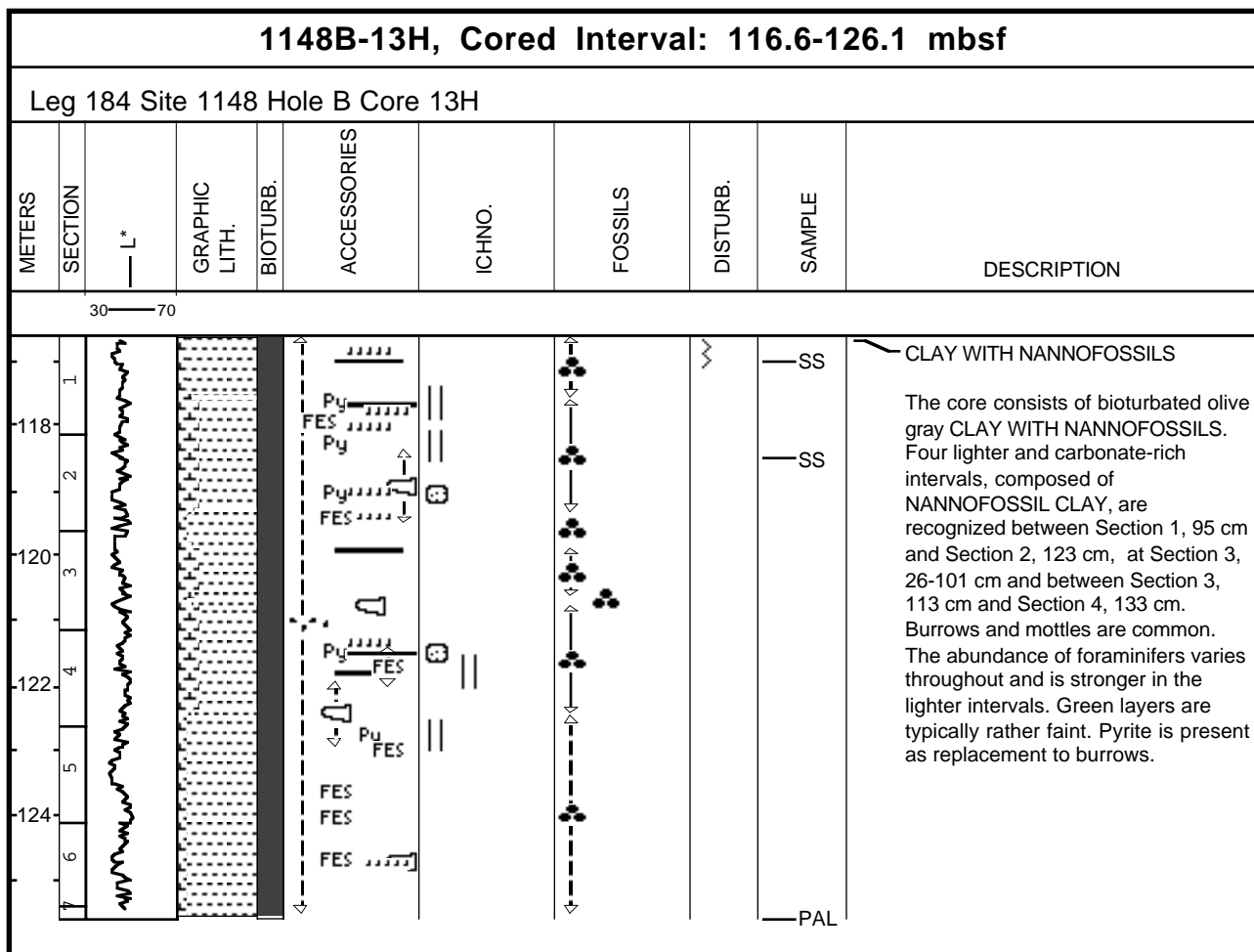
Core Photo

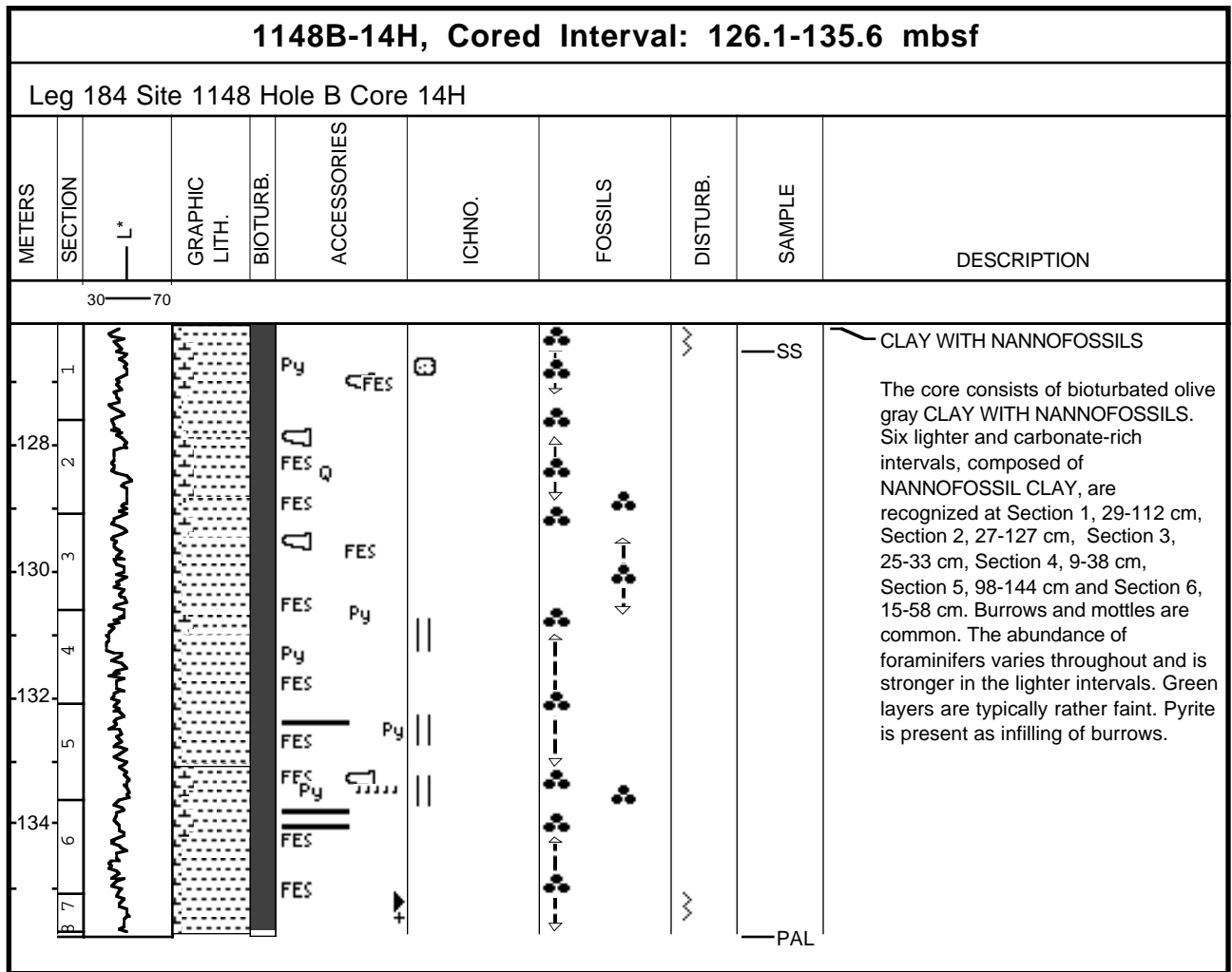


Core Photo



Core Photo

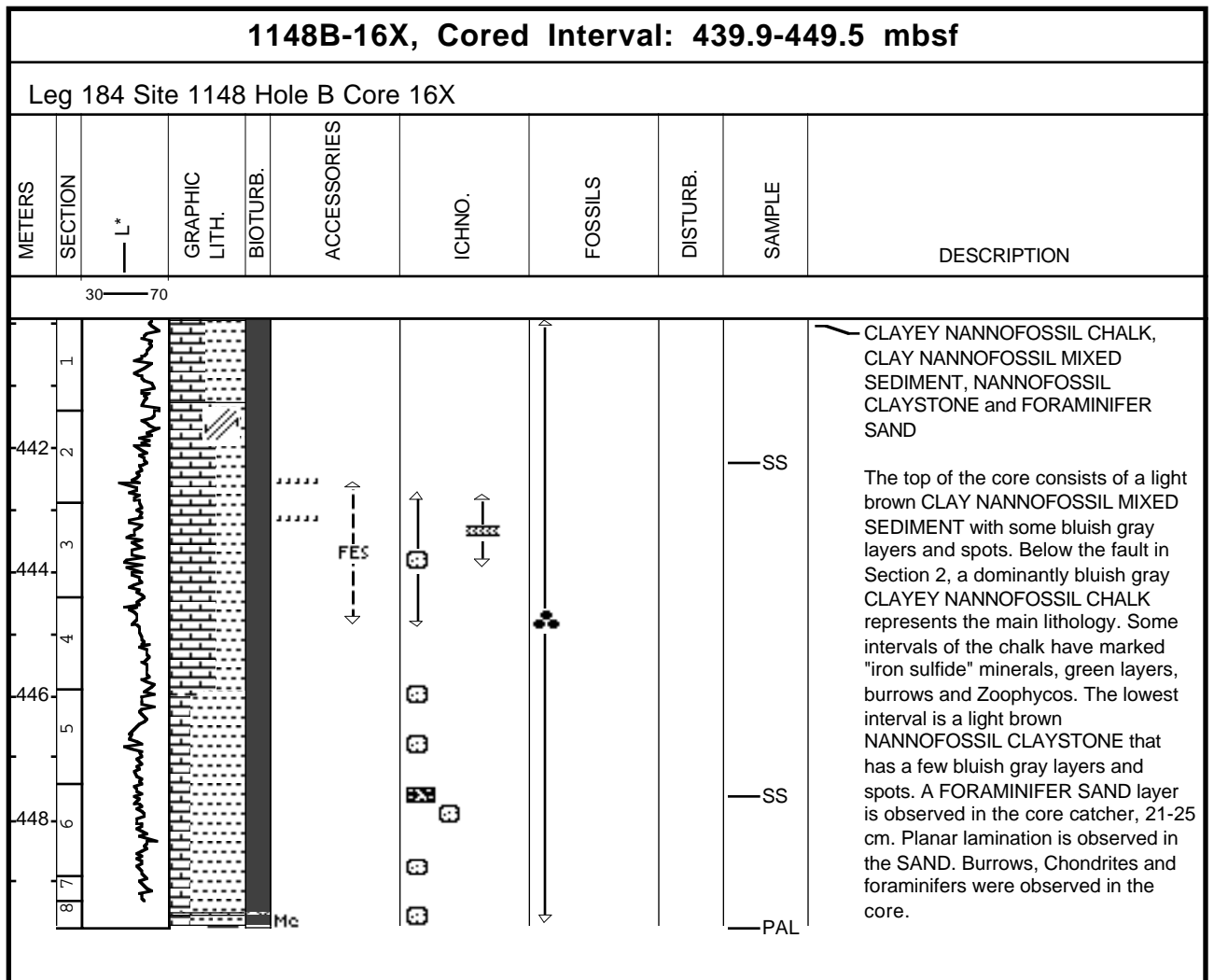




Core Photo

1148B-15H, Cored Interval: 135.6-145.1 mbsf								
Leg 184 Site 1148 Hole B Core 15H								
METERS	SECTION	L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.
DESCRIPTION								
<div style="text-align: center;">30 ————— 70</div> <p>The core consists of bioturbated olive gray CLAY WITH NANNOFOSSILS. Four lighter and carbonate-rich intervals, composed of NANNOFOSSIL CLAY, are recognized at Section 1, 10-85 cm, between Section 3, 2 cm and Section 4, 3 cm, at Section 4, 30-112 cm and Section 5, 30-91 cm. Burrows and mottles are common. The abundance of foraminifers varies throughout and is stronger in the lighter intervals. Green layers are very faint. Pyrite is present as replacement of burrow fills.</p>								

Core Photo

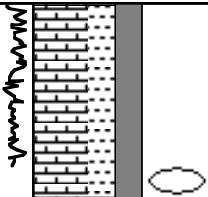
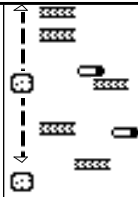
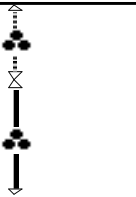
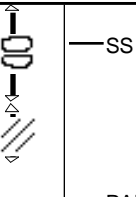


[illegible]

Core Photo

[illegible]




Core Photo

1148B-19X, Cored Interval: 468.7-478.3 mbsf										
Leg 184 Site 1148 Hole B Core 19X										
METERS	SECTION	— L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
35 — 75										
470	1 2 3						SS PAL			<p>CLAYEY NANNOFOSSIL CHALK</p> <p>The core consists of a light brown CLAYEY NANNOFOSSIL CHALK with a few light green layers and spots of the same lithology. The last 6 cm of the core is light green. Nearly half of Section 1 is drilling slurry. Zoophycos, Planolites and other burrows are quite commonly noted on the cut core surface. A single pyrite nodule is noted. Foraminifers are moderate to abundant.</p>

Core Photo

1148B-20X, Cored Interval: 478.3-483.1 mbsf										
Leg 184 Site 1148 Hole B Core 20X										
METERS	SECTION	L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
30 — 70										
480	3 4								IW SS PAL	<div>CLAYSTONE WITH NANNOFOSSILS</div> <div>This core is strongly disturbed by the coring process but shows a relatively homogenous sequence of grayish olive green CLAYSTONE WITH NANNOFOSSILS. The sediment is vaguely laminated due to compaction of sub-horizontal burrows, more rarely due to millimeter scale variations in lithology. Foraminifers are clearly seen on the cut core face. A 1-cm-thick layer of black CLAYSTONE WITH NANNOFOSSILS occurs at Core Catcher, 19 cm. Dolomite rhombs were observed in the smear slide.</div>





Core Photo

1148B-21X, Cored Interval: 483.1-487.9 mbsf										
Leg 184 Site 1148 Hole B Core 21X										
METERS	SECTION		GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
1									PAL	CLAYSTONE WITH NANNOFOSSILS This core, which comprises grayish olive green CLAYSTONE WITH NANNOFOSSILS, is extremely disturbed by the coring process. There is only one intact drilling biscuit (4 cm across) and this shows no internal sedimentary structures.

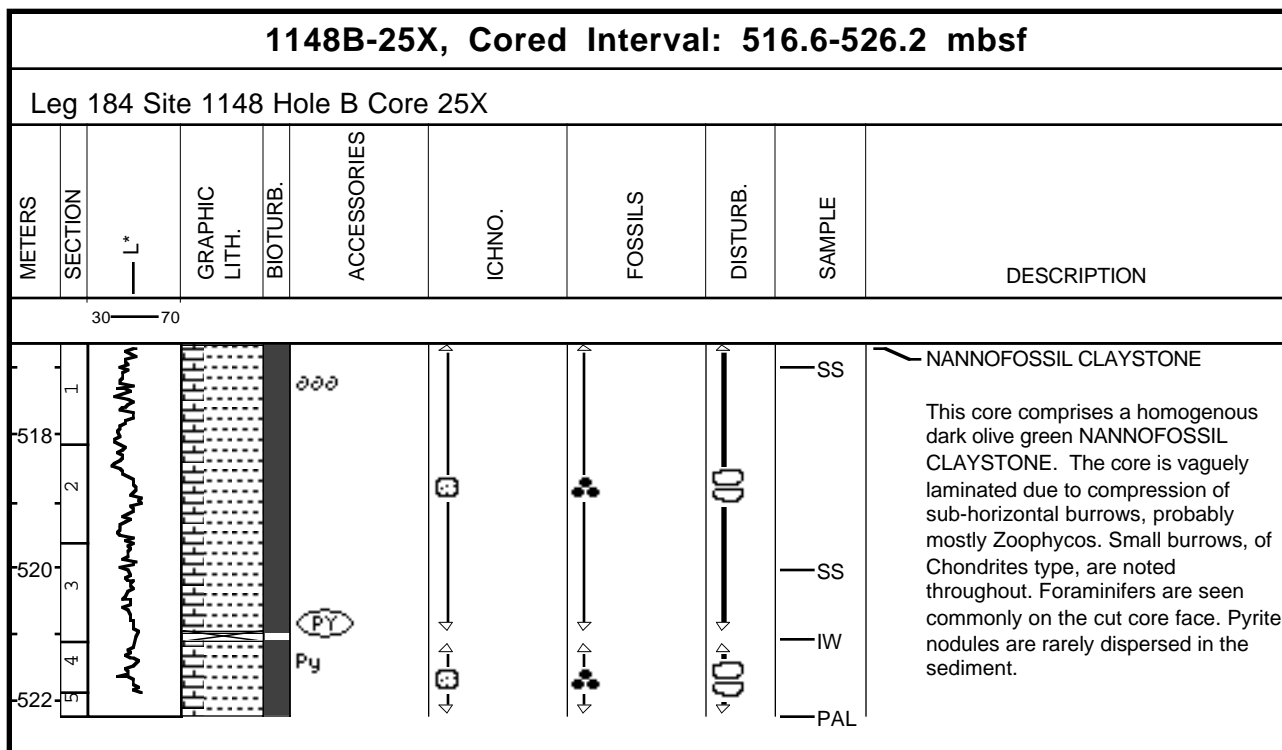
1148B-22X, Cored Interval: 487.9-497.5 mbsf										
Leg 184 Site 1148 Hole B Core 22X										
METERS	SECTION		GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
1										CLAYSTONE WITH NANNOFOSSILS
<p>This core comprises grayish olive green CLAYSTONE WITH NANNOFOSSILS. The sediment is extremely disturbed by the coring process. No internal sedimentary structures were visible in the coherent peices of drilling biscuit.</p>										

1148B-23X, Cored Interval: 497.5-506.9 mbsf										
Leg 184 Site 1148 Hole B Core 23X										
METERS	SECTION		GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
30 — 70										
										<p>NANNOFOSSIL CLAYSTONE</p> <p>This core contains grayish olive green NANNOFOSSIL CLAYSTONE, and is extremely disturbed by the coring process. No sedimentary structures are visible within the small biscuits produced during coring.</p>

Core Photo

1148B-24X, Cored Interval: 506.9-516.6 mbsf										
Leg 184 Site 1148 Hole B Core 24X										
METERS	SECTION	L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
30 — 70										
508	1 2								SS PAL	<div>NANNOFOSSIL CLAYSTONE</div> <div>This core comprises highly disturbed dark, olive green NANNOFOSSIL CLAYSTONE. Little sedimentary structure is visible due to drilling induced biscuiting. A vague sub-horizontal lamination is visible that may reflect an original sedimentary lamination due to burrowing. The sediment in the Core Catcher below 10 cm is lighter colored, especially at 34-43 cm, where greater carbonate cementation has resulted in a more coherent, less biscuiting interval.</div>

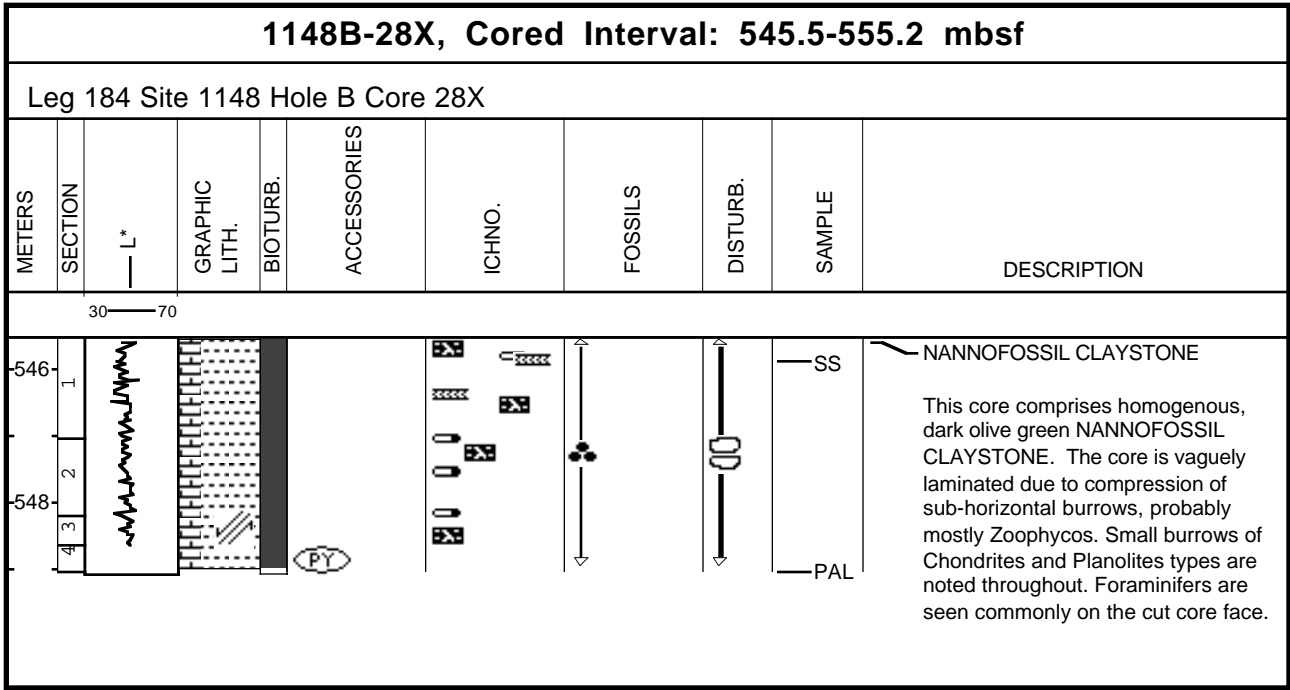
Core Photo



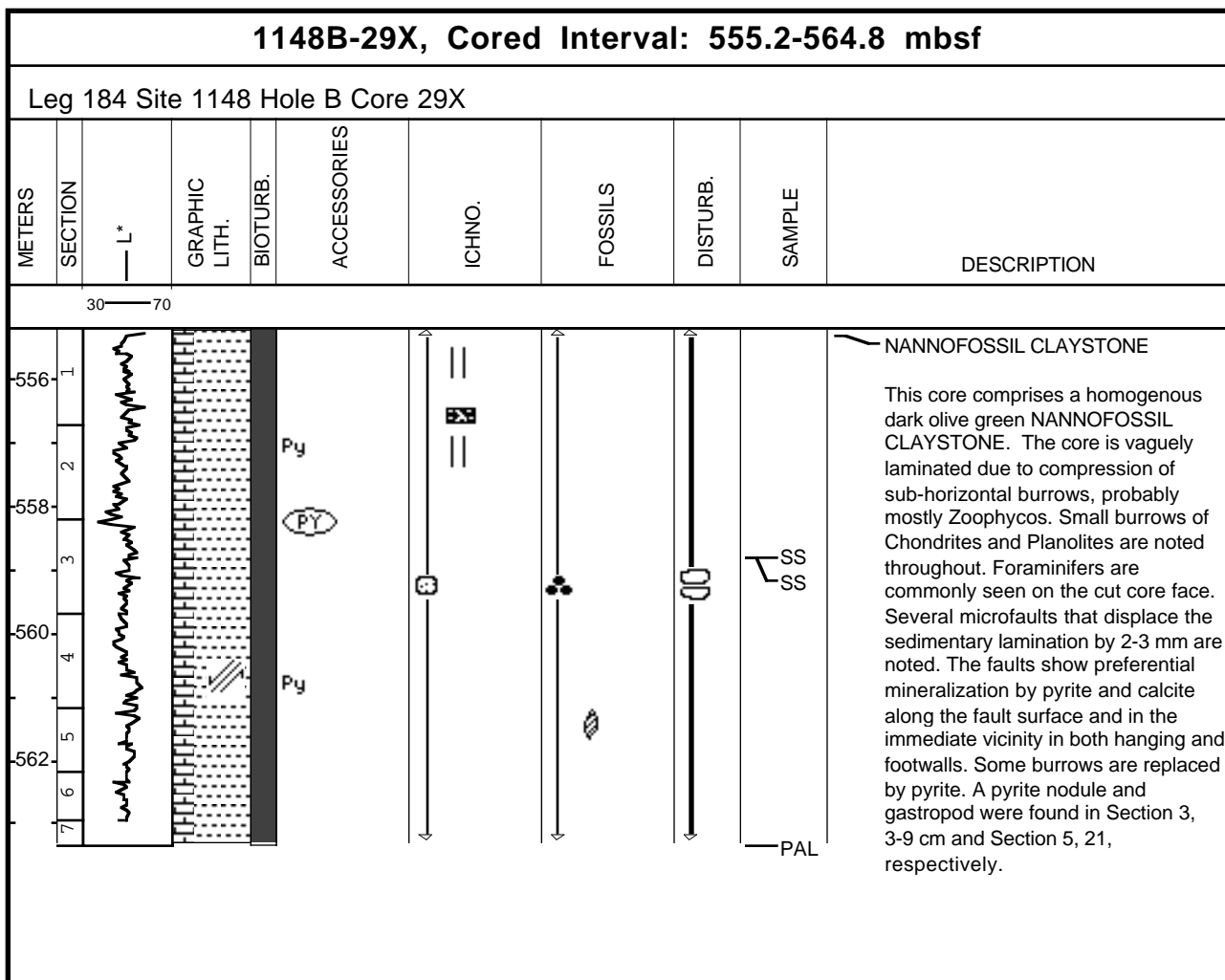
Core Photo

1148B-26X, Cored Interval: 526.2-535.9 mbsf										
Leg 184 Site 1148 Hole B Core 26X										
METERS	SECTION	L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
30 — 70										
528	1 2 3								SS PAL	<p>NANNOFOSSIL CLAYSTONE</p> <p>This core comprises a homogenous dark olive green NANNOFOSSIL CLAYSTONE. The core is vaguely laminated due to compression of sub-horizontal burrows, probably mostly Zoophycos. Small burrows, of Chondrites type, are noted throughout. Foraminifers are seen commonly on the cut core face. Pyrite is absent.</p>

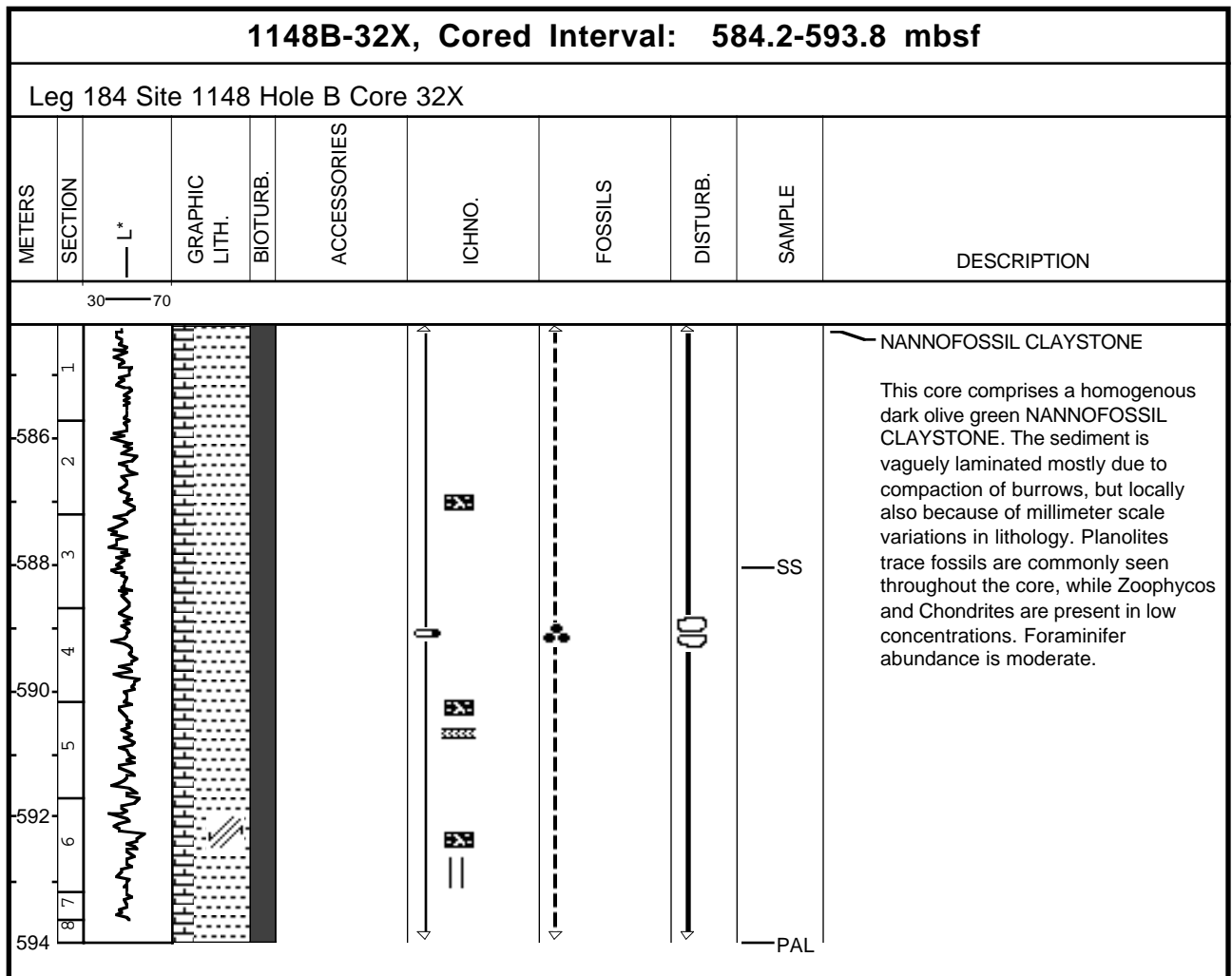
Core Photo



Core Photo



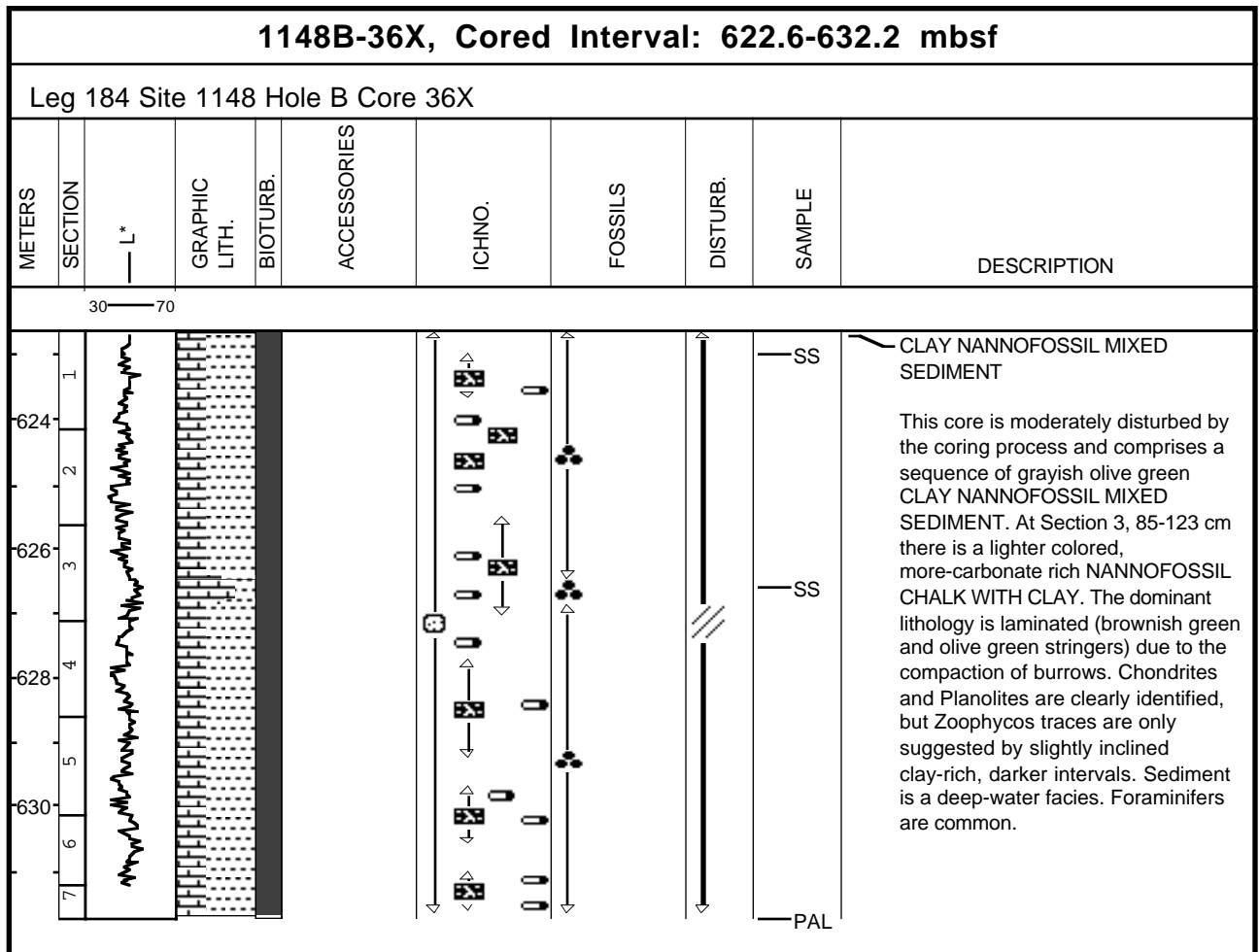
1148B-30X, Cored Interval: 564.8-574.5 mbsf										
Leg 184 Site 1148 Hole B Core 30X										
METERS	SECTION	L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
<div> <div> <div>30</div> <div>70</div> </div> </div>										

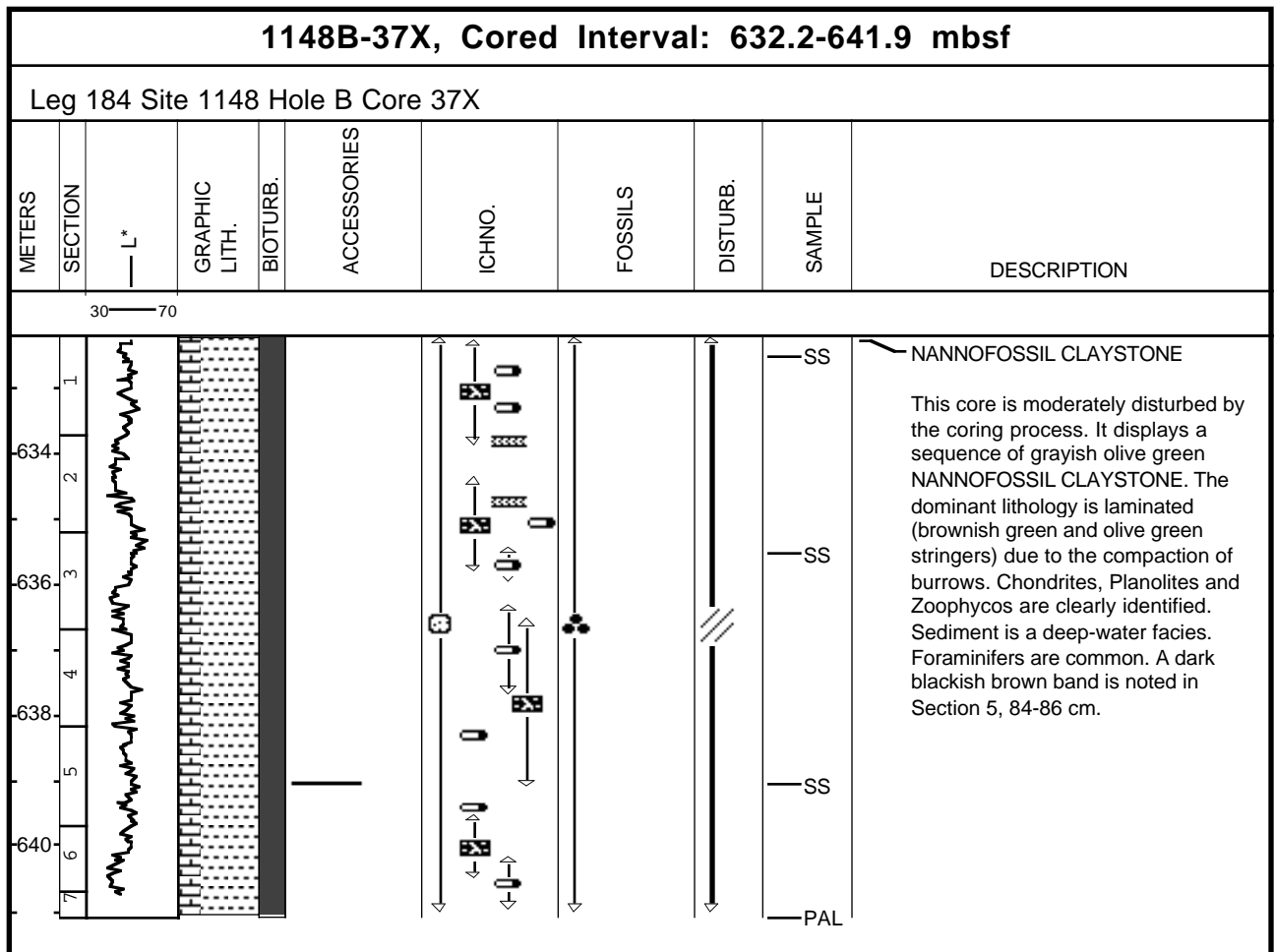


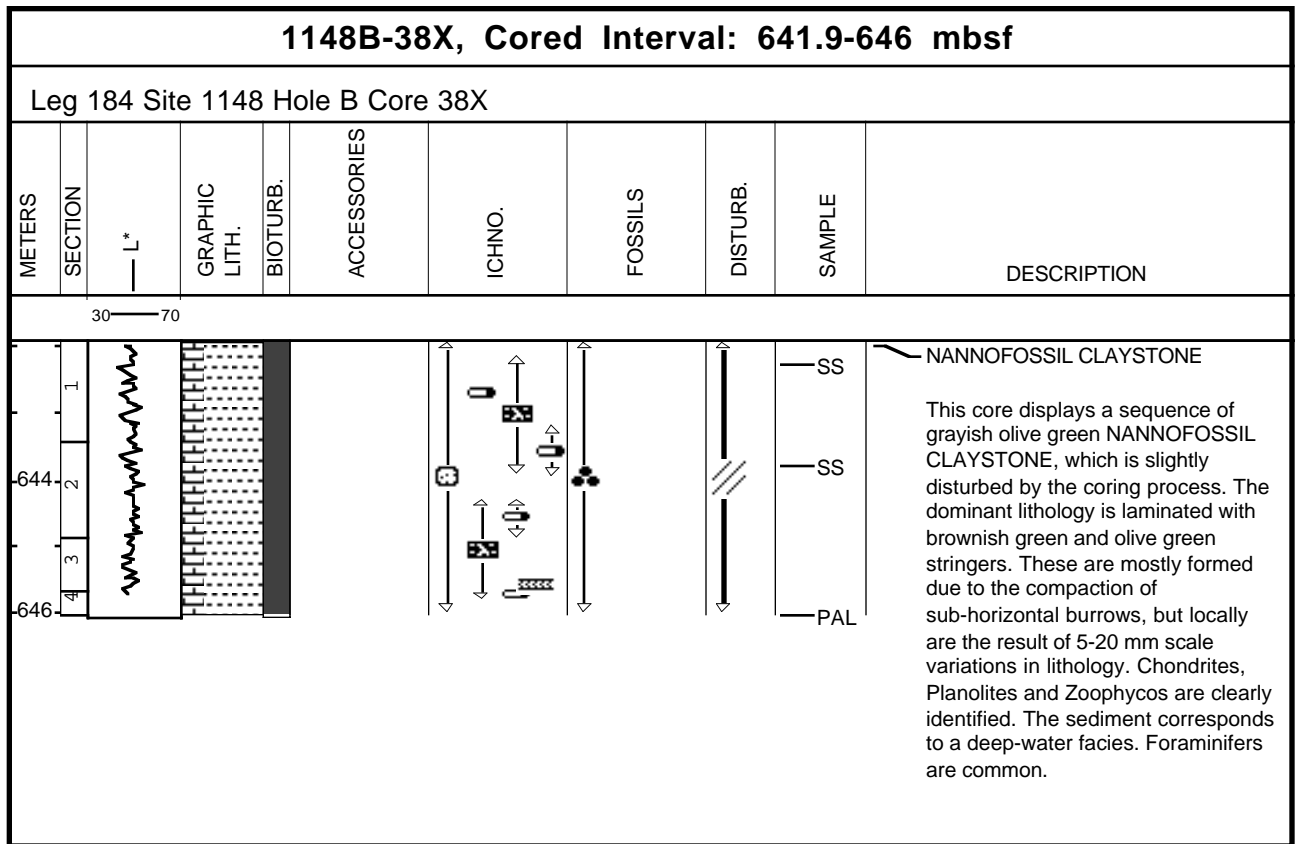
1148B-33X, Cored Interval: 593.8-603.4 mbsf										
Leg 184 Site 1148 Hole B Core 33X										
METERS	SECTION	L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
30 — 70										
1 2										<p>NANNOFOSSIL CLAYSTONE</p> <p>This core comprises a homogenous dark olive green NANNOFOSSIL CLAYSTONE. The sediment is vaguely laminated mostly due to compaction of sub-horizontal burrows, but also because of millimeter-scale variations in lithology. Planolites are commonly seen throughout the core with Chondrites being present in lower concentrations. Foraminifers are moderately abundant.</p>

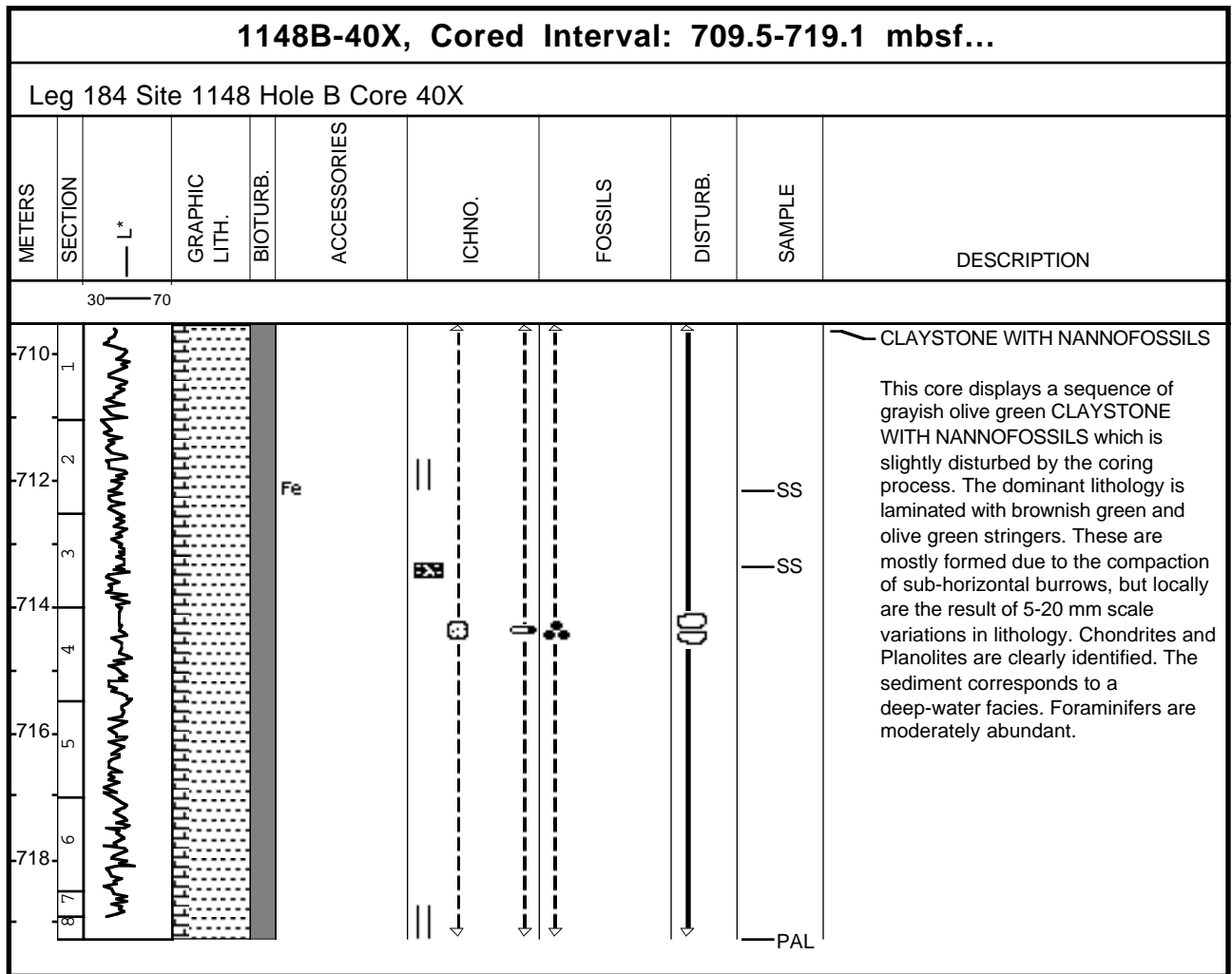
1148B-35X, Cored Interval: 613.0-622.6 mbsf										
Leg 184 Site 1148 Hole B Core 35X										
METERS	SECTION	— L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
<div> <div>3070</div> <div> <p>NANNOFOSSIL CLAYSTONE</p> <p>This core comprises a homogenous dark olive green NANNOFOSSIL CLAYSTONE. The sediment is vaguely laminated due to compaction of burrows. Planolites and Chondrites are commonly seen throughout the core. Foraminifers are moderate in quantity. At Section 5, 105-135 cm there are a series of fractures filled by a white mineral identified as quartz by XRD analysis.</p> <p>Quartz-filled fracture</p> </div> </div>										

Core Photo

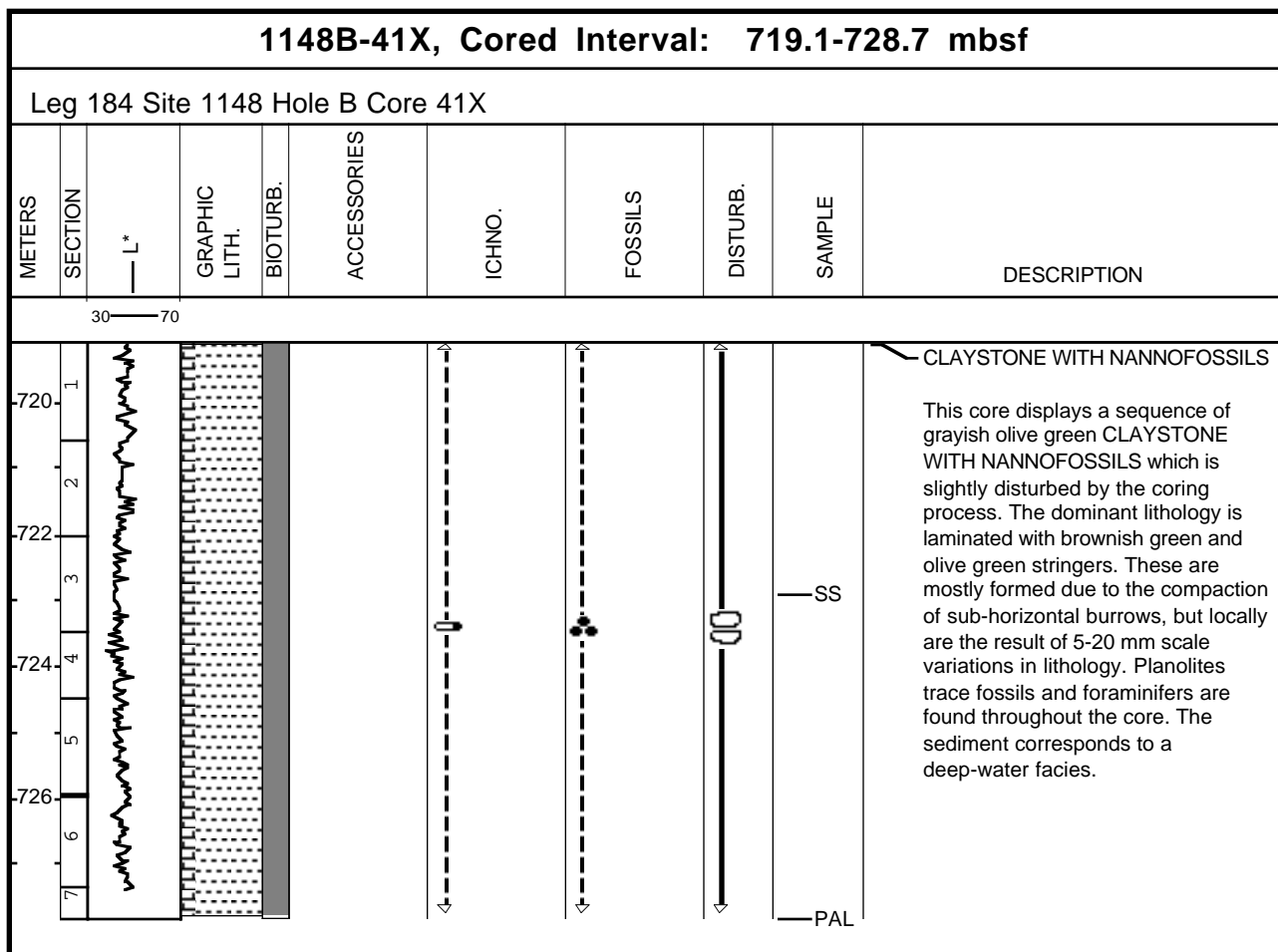




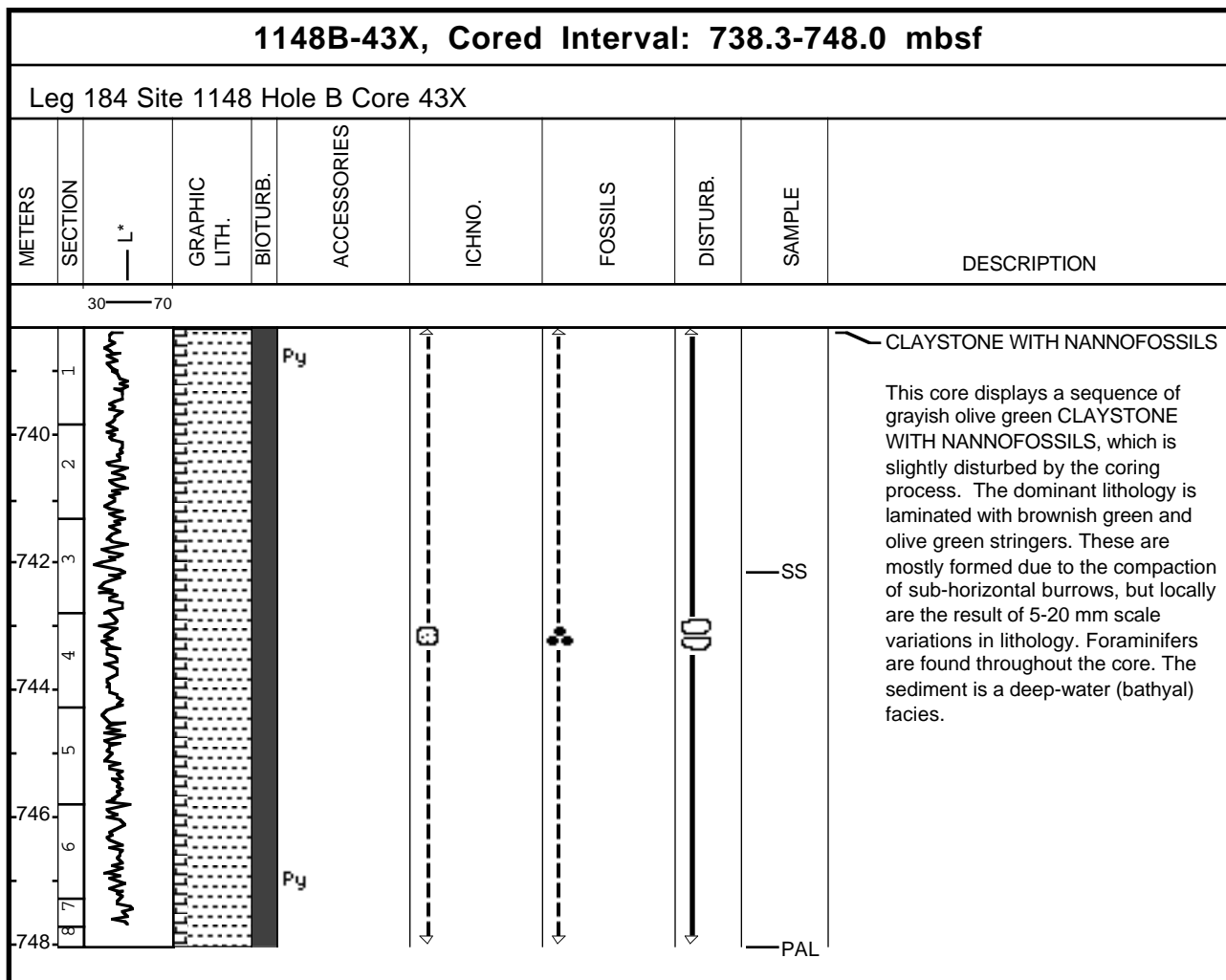




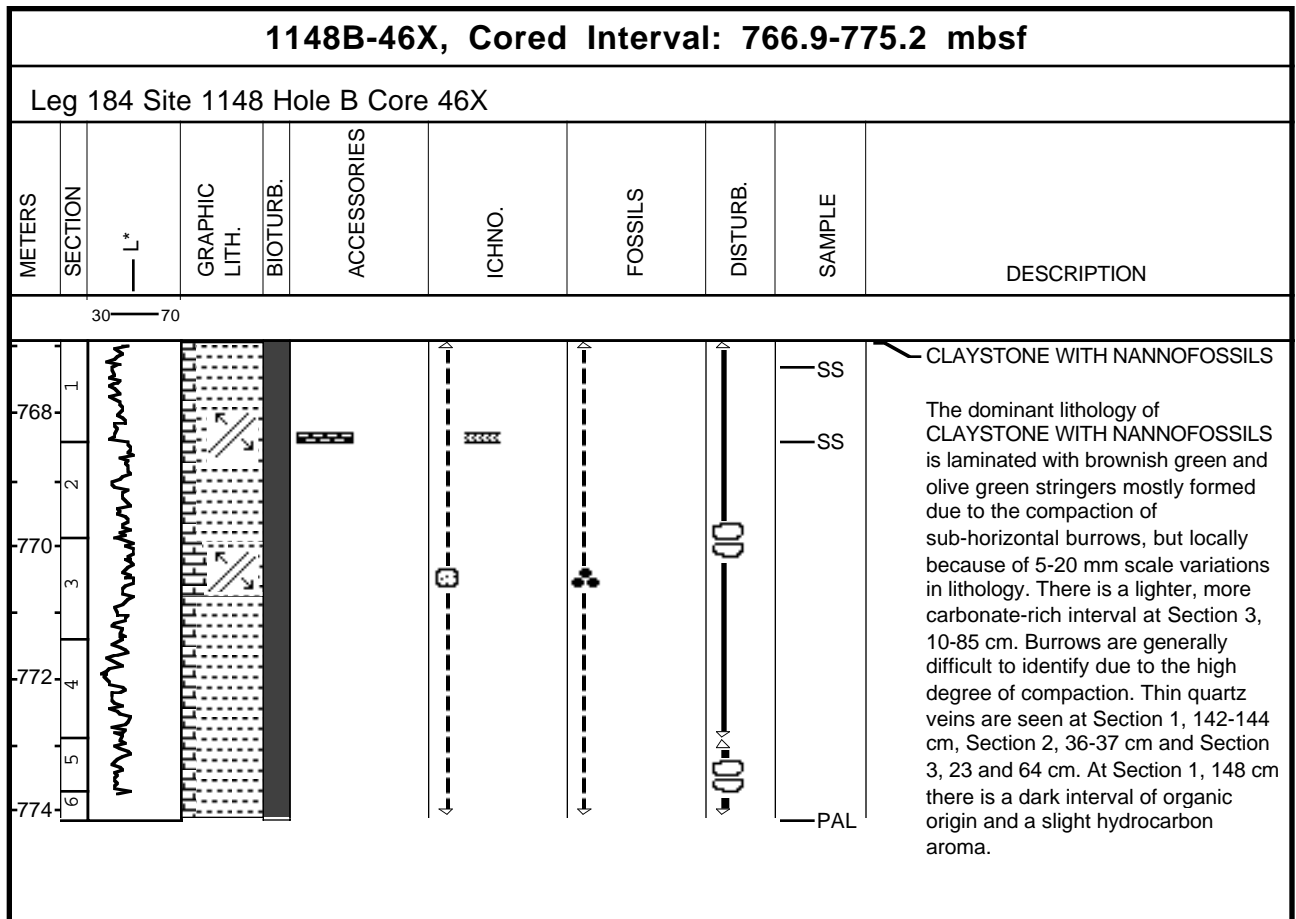
Core Photo



Core Photo



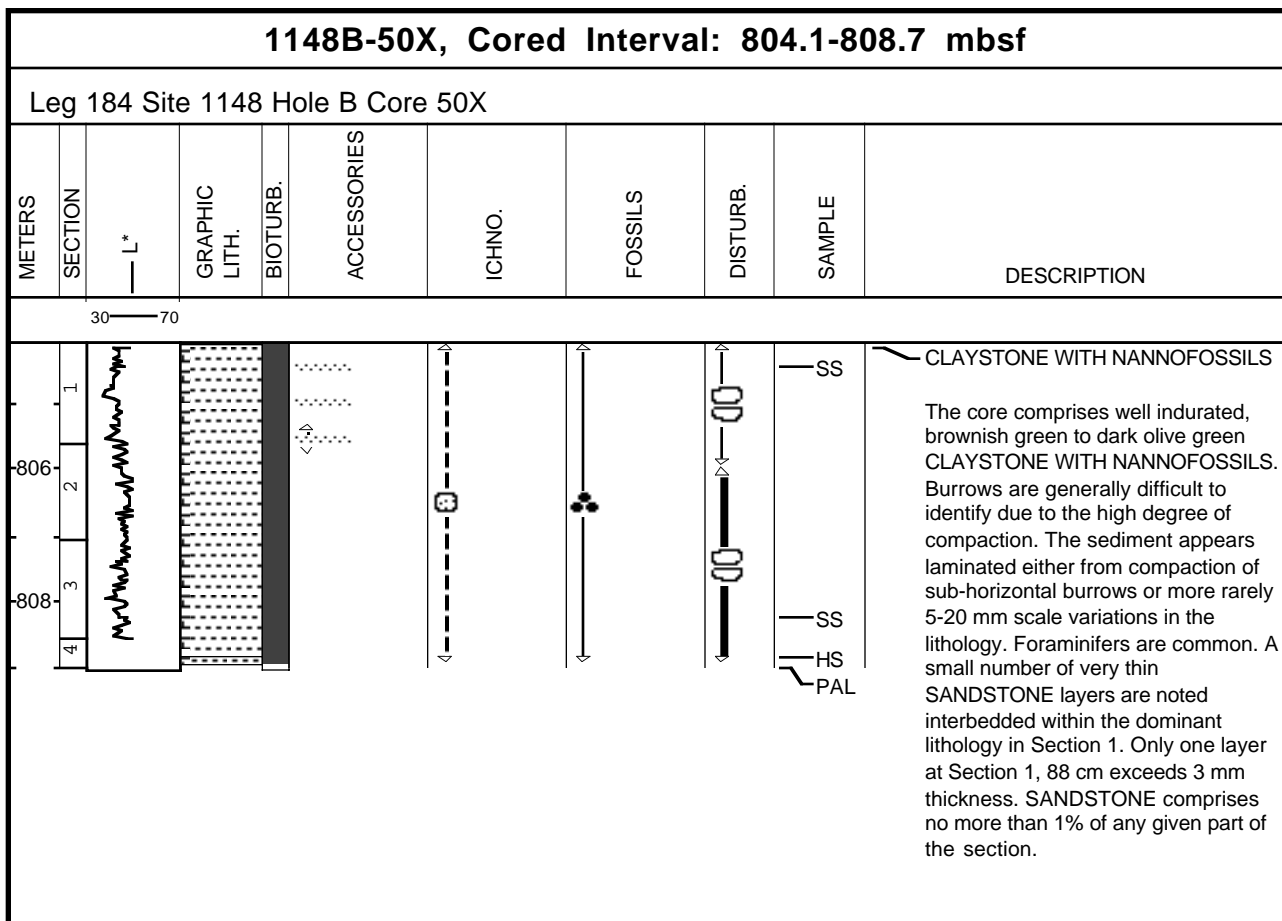
Core Photo



Core Photo

1148B-48X, Cored Interval: 784.8-794.5 mbsf										
Leg 184 Site 1148 Hole B Core 48X										
METERS	SECTION	L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
		30 — 70								
786	1								SS	CLAYSTONE WITH QUARTZ AND NANNOFOSSILS The dominant lithology of CLAYSTONE WITH QUARTZ AND NANNOFOSSILS is laminated brownish green and olive green. The sediment appears laminated either from compaction of sub-horizontal burrows or in rare instances from 5-20 mm scale variations in the lithology. Several 1-3 mm thick SANDSTONE laminae are noted throughout the sequence: the sand is mainly composed of glauconite, mica, iron oxides and small amounts of quartz grains and lithic fragments. The flaser bedding is suggestive of a current-laid origin. Locally parallel laminae are noted. Burrows are generally difficult to identify due to the high degree of compaction.
	2								SS	
	3								PAL	






Core Photo




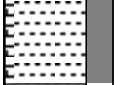



Core Photo

1148B-51X, Cored Interval: 808.7-814.7 mbsf										
Leg 184 Site 1148 Hole B Core 51X										
METERS	SECTION	— L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
30 — 70										
810	1 2 3									<div>CLAYSTONE with NANNOFOSSILS and CLAYSTONE</div> <div>The core comprises well indurated, brownish green to dark olive green CLAYSTONE with NANNOFOSSILS and CLAYSTONE. The sediment appears laminated mostly because of the compaction of sub-horizontal burrows, but locally 5-20 mm scale variations in the lithology can be significant. Some SANDSTONE lamina are interbedded with the dominant lithology. Tabular bedding is recognized. Foraminifers are common in a dark CLAYSTONE layer at Section 2, 71-81 cm and moderate to rare in other portions of the core. Some Chondrites and Planolites were identified. A slump interval occurs from Section 2, 81 cm to the bottom of the core catcher. Folding and microfaulting is evident within the slump.</div>

Core Photo




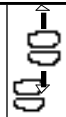
1148B-52X, Cored Interval: 814.7-819.3 mbsf										
Leg 184 Site 1148 Hole B Core 52X										
METERS	SECTION	L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
30 — 70										
816	1								<div><div>SS</div><div>SS</div><div>PAL</div></div>	<div><div>CLAYSTONE with NANNOFOSSILS and CLAYSTONE</div><div>The core comprises well indurated, brownish green to dark olive green CLAYSTONE with NANNOFOSSILS and CLAYSTONE. The sediment represents a slumped interval, and folding and microfaulting is evident within the core. Some sediment appears laminated and a SANDSTONE lamina is found in Section 1, 21 cm. Low angle bedding is recognized. Foraminifers are moderate abundant to rare.</div></div>

Core Photo






1148B-53X, Cored Interval: 819.3-824.4 mbsf										
Leg 184 Site 1148 Hole B Core 53X										
METERS	SECTION	L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
30 — 70										
820.4	1								PAL	<div>CLAYSTONE WITH NANNOFOSSILS</div> <div>The core comprises well indurated, brownish green to dark olive green CLAYSTONE WITH NANNOFOSSILS. Foraminifers and bioturbation are both moderately abundant. The core is parallel laminated as a result of the compaction of sub-horizontal burrows.</div>

1148B-54X, Cored Interval: 824.4-834.0 mbsf										
Leg 184 Site 1148 Hole B Core 54X										
METERS	SECTION	L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
<div><div><div>30</div><div>70</div></div><div><div><div><div><div>21</div><div>W</div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><di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Core Photo

1148B-55X, Cored Interval: 834.0-843.6 mbsf										
Leg 184 Site 1148 Hole B Core 55X										
METERS	SECTION	— L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
30 — 70										
2 1									PAL	<p>CLAYSTONE WITH NANNOFOSSILS</p> <p>The core comprises well indurated, brownish green to dark olive green CLAYSTONE WITH NANNOFOSSILS. The sediment represents a slumped interval, and folding and microfaulting is evident within the core. Foraminifers are moderate in quantity and disseminated pyrite is rare throughout the core.</p>

Core Photo

1148B-56X, Cored Interval: 843.6-853.2 mbsf										
Leg 184 Site 1148 Hole B Core 56X										
METERS	SECTION	— L*	GRAPHIC LITH.	BIOTURB.	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	DESCRIPTION
30 — 70										
844	1 2								— SS — PAL	<p>NANNOFOSSIL CLAYSTONE</p> <p>The core comprises well indurated, brownish green to dark olive green NANNOFOSSIL CLAYSTONE. The sediment represents a slumped interval. Ductile, soft sediment deformation in the form of folding and boudinage is noted. Microfaulting is evident as a zone of anastomosing fractures. Much of the sediment is laminated. Foraminifers are common. Some coarse crystalline CALCITE, presumably from a vein, is found at the base of the core catcher.</p>

Sample					Texture			Mineral																	Biogenic											
Core	Type	Section	Interval Top (cm)	Depth	Lithology	Sand	Silt	Clay	Accessory Minerals (1)	Biotite (22)	Calcite (30)	Carbonate (35)	Clay (47)	Dolomite (62)	Fe Oxide (68)	Feldspar (71)	Mica (118)	Opagues (140)	Phillipsite (155)	Pyrite (169)	Quartz (172)	Volcanic Glass (81)	Algae (5)	Diatoms (58)	Discoaster (61)	Foraminifers (78)	Nannofossils (132)	Plant Debris (161)	Radiolarians (173)	Silicoflagellates (189)	Sponge Spicules (199)	Other (145)	Comments			
184-1148A-																																				
1	H	1	9	0.09	D	5	45	50			1		40				1	10			5	1		10		3	10		5	4	10		clay			
1	H	1	59	0.59	D	5	40	55			1		45				1	2			5	1		10		5	10		5	5	10		clay			
2	H	3	80	4.60	D	5	35	60			2		50				2	2			5			10		5	10		5	5	4		clay			
2	H	6	41	8.71	M	95	5	0													5	85				2	2		5		1		volcanic ash			
3	H	3	80	14.03	D	10	35	55			2		50				1	0			2			7		1	20		7	5	5		clay with nannofossils			
4	H	6	58	27.88	M	5	5	90			1		25				1				1			2		1	65		1	1	2		clayey nannofossil ooze			
4	H	6	87	28.17	M	10	20	70			1		25				1				1	2		5		2	50		5	3	5		clayey nannofossil ooze			
5	H	3	80	33.10	D	5	15	80			1		75			1	2	1			7			1			5		1	1	5		clay			
5	H	6	80	37.60	D	10	20	70	1		2		50				1	1			5			7		2	17		7	2	5		clay with nannofossils			
6	H	3	80	42.60	D	10	20	70	2		2		50				1	2		1	7			2		1	22		2	1	7		clay with nannofossils			
7	H	3	80	52.10	D	5	15	80	1		1		60				2	1			7			1		1	20		1		5		clay with nannofossils			
8	H	3	80	61.60	D	10	10	80	2				75			1	1	2			5			1		1	5		1	1	5		clay			
9	H	3	80	71.10	D		14	86			2		61			1	2	1			3		1	1			25					3	Clay with Nannofossils			
10	H	1	66	77.46	D		23	77			2		72			2	2	2			10						5					5	Clay with Quartz Silt			
10	H	4	38	81.68	D	2	20	78			3		48		1		3	1			5		2	2		2	30					3	Nannofossil Clay			
11	H	1	68	86.98	D		44	56	1		3		56		5		5	2			20											8	Clay with Quartz			
11	H	2	135	89.15	M	5	86	9					10					2			8	80											Volcanic Ash			
11	H	3	38	89.68	D	1	26	73			4		48		2		2	1			7		2	1		1	25				7		Clay with Nannofossils			
12	H	2	36	97.66	D	1	20	79			3		52		1		2	2			4		3	1		2	25					5	Clay with Nannofossils			
12	H	4	42	100.72	M	2	87	11					11			7		2	50			30											Volcanic Glass altered			
13	H	2	48	107.28	D		23	77			3		52		2		2	2			5		2	1		1	25					5	Nannofossil Clay			
13	H	6	59	113.14	M		21	79	1				69		1		5	2			7						10					5	Clay with Nannofossils			
14	H	1	50	115.30	D		20	80			7		45		1	2	2	2			3		1	1		1	30					5	Nannofossil Clay			
15	H	1	50	124.80	D		27	73			5		58		1		4	2			10						15					5	Clay with Nannos and Quartz			
15	H	2	60	126.40	D		19	81			3		51		1		2	1			5					2	30					5	Nannofossil Clay			
16	H	2	50	135.80	D		23	77	1		7		40		1		3	2			7					2	35					2	Nannofossil Clay			
16	H	6	80	142.10	D		20	80			5		50		1		2	2			7						30					3	Nannofossil Clay			
17	X	1	50	143.80	D		25	75	1		5		40		2		2	2			8		1			2	35					2	Nannofossil Clay			
17	X	3	40	146.70	D		22	78			4		38		2		3	3			7			1		1	40		1					Clayey Nannofossil Ooze		
18	X	1	60	153.50	D		26	74			3		54		2		5	3			10						20					3	Clay with Nannos and Quartz			
18	X	2	46	154.86	M		70	30					25					3			10	60					2						Altered volcanic glass			
18	X	5	50	159.40	D		20	80	1		3		54		1		4	2			8						25					2	Clay with Nannofossils			
19	X	1	36	162.86	D		28	72			6		42		2		4	3			7					3	30					3	Nannofossil Clay			
19	X	4	38	167.38	D		28	72			7		37				4	2			8		1	1		3	35					2	Nannofossil Clay			
20	X	1	50	172.60	D		17	83			3		53		1		3	1			7						30					2	Nannofossil Clay			
20	X	4	38	176.98	D		22	78			2		38		1		2	1			4					2	50							Clayey Nannofossil Ooze		
21	X	2	101	184.31	D	3	7	90	1				65			1	1	1			2					1	25					3	Nannofossil clay			
21	X	4	18	186.48	D	5	10	85	2				60			1	2	2			5						25					3	Nannofossil clay			
22	X	3	80	195.30	D	3	7	90	1				40			1	1	1			3						1	50					2	Clayey nannofossil ooze		
23	X	3	80	204.90	D	1	4	95	1				38			1	1				1					1	55					2	Clayey nannofossil ooze			
24	X	3	80	214.60	D	1	4	95	1				40				1	1			1						55					1	Clayey nannofossil ooze			
25	X	3	80	224.20	D	1	4	95	1				40			1	1	1			4					1	50					1	Clayey nannofossil ooze			
26	X	1	54	230.54	M	3	7	90	2				65			1	1	2			2						25					2	Nannofossil clay			
26	X	3	80	233.80	D	3	7	90	1				55				1	1			5						35					2	Nannofossil clay			
27	X	3	80	243.40	D	3	7	90	2				50				1	1			3					1	40					2	Nannofossil clay			
28	X	2	90	251.60	D	3	7	90	2				35			1		1			2					2	55					2	Clayey nannofossil ooze			
29	X	3	80	262.60	D	3	7	90	1				55			1		1		1	4						35					2	Nannofossil clay			

Sample				Texture					Mineral														Biogenic											
Core	Type	Section	Interval Top (cm)	Depth	Lithology	Sand	Silt	Clay	Accessory Minerals (1)	Biotite (22)	Calcite (30)	Carbonate (35)	Clay (47)	Dolomite (62)	Fe Oxide (68)	Feldspar (71)	Mica (118)	Opagues (140)	Phillipsite (155)	Pyrite (169)	Quartz (172)	Volcanic Glass (81)	Algae (5)	Diatoms (58)	Discoaster (61)	Foraminifers (78)	Nannofossils (132)	Plant Debris (161)	Radiolarians (173)	Silicoflagellates (189)	Sponge Spicules (199)	Other (145)	Comments	
29	X	4	38	263.68	M	1	4	95					30					1			1					2	65				1		Clayey nannofossil ooze-	
30	X	3	80	272.20	D	0	5	95	1				75			2		1			5				5	10					1		CLAY WITH NANNOFOSSILS	
31	X	3	80	281.80	D	3	7	90	2				70				1	1			5				10	10					1		CLAY WITH NANNOFOSSILS	
32	X	3	80	291.40	D	1	23	76			1		55		2		1	1			3					1	35				1		Nannofossil Clay	
32	X	5	42	294.02	D	3	24	73			5		43		1		1	1			3						5	40				1		Clay and Nannofossils Mixed Sediments
33	X	3	70	301.00	D		18	82			3		57		1		1	1			5					1	30				1		Nannofossil Clay	
33	X	5	100	304.30	M	30	40	30	5	20			30			7					25	13											Altered Volcanic Ash	
34	X	3	68	309.27	D		20	80			3		49		5		1	2			2							35				3		Nannofossil Clay
34	X	5	70	312.29	D	10	18	72			3		37		2		2	2			2						15	35				2		Nannofossil Clay with Forams
35	X	1	50	317.10	D		30	70			4		39		1		1	1			5					2	45					2		Clayey Nannofossil Ooze
35	X	5	112	323.72	M	10	21	69					69		5	15		2			7											2		Clay with Feldspar
36	X	1	50	326.70	D	2	29	69			5		38		1		1	1			3						5	45				1		Clay Nannofosil Ooze
36	X	5	56	332.76	D	3	25	72			3		47		2		1	1			3					7	35					1		Nannofossil Clay
37	X	1	50	336.30	D	2	31	67			5		32		1						2		1			7	50					2		Nannofossil Ooze with Clay
37	X	6	30	343.61	M	2	30	68					58		4		3	2			10						10				3	10		Clay with Quartz and Nannos
38	X	1	50	345.80	D		23	77			3		37		1			1			2		1			3	50					2		Clayey Nannofossil Chalk
38	X	4	100	350.80	D	1	24	75			3		46		2		1	1			3						2	40				2		Nannos and Clay Mixed sediment
38	X	5	86	352.16	M	50	45	5								10					20					70								Forams and Quardz and Feldspar
38	X	5	89	352.19	M	60	40									10				25	15						50							Forams with Quatz and Feldspar
39	X	1	39	355.29	D	3	30	67			5		35		1		1	1			3		1			7	45					1		Clayey Nannofossil Chalk
39	X	5	30	361.20	D	3	30	67			3		37		3		2	1			5					8	40					1		Clayey Nannofossil Chalk
40	X	1	35	364.85	D		26	74			5		39		2			1			2					5	45					1		Clayey Nannofossil Chalk
40	X	5	30	370.80	D		31	69			3		44	2		2	2	1			7					2	35					2		Nannofossil Clay
41	X	2	35	376.05	D		20	80			2		35		1		1	1			3					2	55							Clayey Nannofossil Chalk
41	X	3	89	378.09	D		25	75			4		35		1		1				3		1			5	50							Clayey Nannofossil Chalk
42	X	1	35	384.25	D		28	72			5		37		1			1			2		1			7	45					1		Clayey Nannofossil Chalk
42	X	6	35	391.75	D		27	73			2		48	1	2			1			5		1			5	35							Nannofossil Clay
43	X	1	35	393.85	D	1	4	95	1				80				1				2						16							Clay with nannofossils
43	X	2	30	395.30	D	3	7	90	1				40		1		1				3					3	50					1		Clayey nannofossil chalk
44	X	3	80	407.00	D	5	15	80	1				40				1	1			2					3	50					2		Clayey nannofossil chalk
45	X	3	80	416.70	D	3	7	90	1				40					1			5	1				2	50							Clayey nannofossil chalk
46	X	3	80	426.30	D	1	4	95					30					1			2					1	65					1		Clayey nannofossil chalk
47	X	2	80	434.50	D	3	7	90	1				30					1			2					4	60					2		Clayey nannofossil chalk
47	X	3	118	436.38	D	3	7	90					45			2	1	1			5					1	45							Clayey nannofossil chalk
48	X	3	80	445.60	D	3	2	95	1				45					1			1					2	50							Clayey nannofossil chalk
48	X	5	80	448.60	D	3	7	90	1				50			1	1	1			3					3	40							Nannofossil clay
49	X	1	83	452.23	M	5	10	85	1				55			1	1	1			5					5	30					1		Nannofossil clay
49	X	2	60	453.50	D	7	3	90	1				55			1		1			2					5	35							Nannofossil clay
49	X	2	70	453.60	M	5	15	80	1				40			1	1	1			3					7	45					1		Clayey nannofossil chalk
50	X	2	80	463.30	D	8	5	87					50			1					5					7	37							Nannofossil clay
51	X	1	4	468.04	D	10	3	87	1				70								5					7	17							Claystone with nannofossils
52	X	CC	18	473.28	D	5	5	90					75			1	1	2			2					2	17							Claystone with nannofossils
53	X	1	29	477.99	D	3	5	92	1				80			1		2			5						11							Clay
53	X	1	45	478.15	M	2	4	94	1				85			1		2			3					1	7							Clay
54	X	1	35	483.05	D	5	15	80			3		57	2				1			2					10	25							Clay with Nannos and Forams
55	X	1	36	487.66	D	2	20	78			2	6	61	1			1	1		1	2					5	20							Clay with Nannofossils

Sample						Texture			Mineral														Biogenic												
Core	Type	Section	Interval Top (cm)	Depth	Lithology	Sand	Silt	Clay	Accessory Minerals (1)	Biotite (22)	Calcite (30)	Carbonate (35)	Clay (47)	Dolomite (62)	Fe Oxide (68)	Feldspar (71)	Mica (118)	Opalines (140)	Phillipsite (155)	Pyrite (169)	Quartz (172)	Volcanic Glass (81)	Algae (5)	Diatoms (58)	Discoaster (61)	Foraminifers (78)	Nannofossils (132)	Plant Debris (161)	Radiolarians (173)	Silicoflagellates (189)	Sponge Spicules (199)	Other (145)	Comments		
56	X	1	30	492.60	D		18	82		1		5	67							2	3					2	20							Clay with Nannofossils	
57	X	1	30	502.00	M	90	6	4					4													1	5	90						Wood Debris	
57	X	1	36	502.06	D		25	75			4		47		1		1	1		1	5					5	35							Nannofossil Clay	
58	X	1	35	511.65	D		20	80			2		52		1		1			2	5					2	35							Nannofossil Clay	
59	X	1	36	521.36	D		15	85			1		60	1			1			2	3					2	30							Nannofossil Clay	
60	X	1	9	530.69	D	5	5	90	1				60			1	1	1			5					5	25		1					Nannofossil clay	
61	X	1	75	540.95	D	5	5	90	1				53	2		1	1	1			5					5	31							Nannofossil clay	
62	X	3	80	553.70	D	5	10	85	1				49	1		1	1	1	1		3					7	36							Nannofossil clay	
63	X	2	66	561.66	M	83	15	2	1				1								80					3	15							Quatz sand with nannofossils	
63	X	3	80	563.00	D	3	10	87	1				47	3		1	1	1			5					4	37							Nannofossil clay	
64	X	1	51	569.61	M	15	15	70	15				30	5				2			10	5				1	32							Nannofossil-claymixed sediment with pyroxene	
64	X	1	53	569.63	D	10	4	86	1				54	1			1	1			5					5	31				1			Nannofossil clay	
65	X	1	21	579.01	D	4	10	86	1				54	1		1		1			5					5	31				1			Nannofossil clay	
65	X	1	94	579.74	M	85	5	10		55											35						10							Carbonate-Quartz sand	
65	X	1	101	579.81	D	10	20	70	20				20								5					5	50							Clayey nannofossil chalk	
66	X	2	90	590.80	D	5	3	92					49	1				1			3					4	42							Nannofossil clay	
66	X	3	5	591.45	M	50	30	20	40			20				2		2			30	5					1								Quartz sand with clay minerals
67	X	2	90	600.40	D		18	82			2		54	1	1					1	5					1	35							Nannofossil Clay	
68	X	2	39	608.67	D		20	80			2	5	45	2				1			6						39								Nannofossil Clay
69	X	1	35	617.55	D		15	85			2		44	5		1					2						1	45							Nannofossils and Clay Mixed Sediment
69	X	5	28	623.48	M		20	80					47	11						1	3					3	35								Nannofossil clay with dolomite
69	X	5	48	623.68	D		16	84			3	2	47	1	1					1	4						1	40							Clay and Nannofossils Mixed Sediment
70	X	1	35	627.15	D		14	86			3		53	2				1		1	2					3	35								Nannofossil clay
70	X	2	38	628.68	M		20	80					51	10	1			1		2	3					2	30								Nannofossil clay with dolomite
71	X	1	35	636.85	D		15	85			2		44	1	1		1			1	5							45							Nannofossils and Clay Mixed Sediment
71	X	2	51	638.51	M		16	84			1		48	4						2	4					1	40								Nannofossil Clay
72	X	1	35	646.55	D		10	90			3		57	1						1	2					1	35								Nannofossil Clay
72	X	4	29	650.99	M	2	30	68			3		40	15	1					2	2					7	30								Clay with Nannofossils and Dolomite
73	X	1	36	656.26	D		25	75					48	10			1			4	4						1	32							Nannofossil Clay with Dolomite
73	X	5	120	663.10	D		18	82			1		52	5	2					1	3						1	35							Nannofossil Clay
74	X	3	80	669.30	D	7	7	86	1		3		60	2				1			5					2	26								Nannofossil clay
75	X	3	80	678.45	D	4	10	86	1				55	1				2			3					7	31								Nannofossil clay
76	X	3	80	688.60	D	4	15	81			1		65	1				1			5					5	21				1				Nannofossil clay
77	X	3	80	698.20	D	5	15	80	1				50	7				2			3					7	30								Nannofossil clay

Sample					Texture			Mineral																Biogenic								Rock	Comments	
Core	Type	Section	Interval Top (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Accessory Minerals (1)	Biotite (22)	Calcite (30)	Carbonate (35)	Clay (47)	Dolomite (62)	Fe Oxide (68)	Feldspar (71)	Glauconite (82)	Mica (118)	Opagues (140)	Plagioclase (159)	Pyrite (169)	Quartz (172)	Volcanic Glass (81)	Zeolite (222)	Algae (5)	Diatoms (58)	Foraminifers (78)	Nannofossils (132)	Radiolarians (173)	Silicoflagellates (189)	Sponge Spicules (199)	Igneous Rock Fragments (94)		
184-1148B-																																		
1	H	1	3	0.03	M	10	15	75			2		70		15								2		2		2	2				5		clay
1	H	1	35	0.35	M	5	5	90					75													3	2	15			5		clay	
1	H	3	80	3.80	D	10	15	75					45										5	5		5	5	20	5			10		clay with nannofossils
2	H	3	80	11.90	D	2	8	90	2				70		2				1							5		15		5			Clay with nannofossils	
3	H	3	80	21.40	D	5	10	85					60		1				2				5	5	2	5		20					Clay with nannofossils	
4	H	3	80	30.73	D	10	10	80			2		50		2	3							5			5		20	5		8		Clay with nannofossils	
5	H	3	80	44.40	D	5	10	85					55										5			10	5	20			5		CLAY WITH NANNOFOSSILS	
6	H	3	80	53.90	D	5	20	75	3				80			2			3				5		2			5					CLAY	
7	H	1	40	60.00	D	10	10	80	15				60											17	3				5				CLAY WITH ASH	
7	H	3	80	63.40	D	2	13	85					70			5							5		5			15					CLAY	
8	H	3	80	72.90	D	0	25	75			5		70			5							5	10	5								CLAY	
9	H	3	80	82.40	D	5	20	75	5		10		60			5							5				10	5					CLAY	
10	H	1	110	89.20	D		25	75	1		5		69		1			3	2				10			1		2	6				Clay with Quartz	
10	H	5	136	95.46	M	5	95								1	7			2				3	87									Volcanic Ash	
11	H	2	38	99.48	D		22	78	1		2		73		2	3		4	3				5						5			2	Clay	
12	H	2	38	108.98	D		18	82			4		72		2			3	2				3			1		1	10			2	Clay with Nannofassils	
13	H	1	36	116.96	D		27	73			3		66		2			4	3				10			1			7			4	Clay with Quartz	
13	H	2	38	118.48	D		20	80			4		74		1			3	1				6			1		1	8			1	Clay	
14	H	1	38	126.48	D		30	70	1		5		65		1			4	2				7				1	2	10			2	Clay with Nannofossils	
15	H	2	80	137.90	D		15	85			3		76		1			2	1				4					1	11			1	Clay with Nannofossils	
15	H	6	35	143.17	D		36	64	1		3		59		5	5		4	3				15							5			Clay with Quartz	
16	X	2	80	442.20	D		5	95	2										2				3	3				5	85				Nannofossil chalk	
16	X	6	20	447.60	D		5	95	2		2		15											5	3			3	70				Clayey nannofossil chalk	
17	X	1	36	449.86	D	2	5	93			3		15		2								5	5					70				nannofossil chalk	
17	X	5	90	456.19	D	5	20	75			2		15											5	3			5	70				NANNOFOSSIL CHALK	
17	X	6	120	457.99	D	5	10	85	1		5								1				1	1	1			5	85				NANNOFOSSIL CHALK	
18	X	1	80	459.90	D	5	10	85	5				20						3				2	10			5	5	50				NANNOFOSSIL CHALK WITH CLAY	
18	X	3	70	462.80	M	5	10	85	2		10													10				2	75	1			nannofossil chalk	
18	X	3	119	463.29	M	5	10	85					15		1				1				5		3		5	5	65				nannofossil chalk with clay	
19	X	1	60	469.30	D	5	5	90			5		15						1				2	5			2	5	65				nannofossil chalk with clay	
20	X	CC	19	480.31	M	0	20	80	3				80	10													2		5				Clay	
24	X	1	32	507.22	D		16	84			3		51						1			1	3				1	5	35				Nannofossil Clay	
25	X	1	36	516.96	D		15	85			1		65	2								2	3				1	1	25				Clay qith Nannofossils	
25	X	3	38	519.98	D		16	84			2		69									3	4				1	1	20				Clay with Nannofossils	
26	X	1	36	526.56	D		11	89			2		59					1	1				2	3				2	30				Nannofossil Clay	
27	X	1	28	536.18	D		13	87			3		57									2	3		1			4	30				Nannofossil Clay	
27	X	2	28	537.68	D		10	90			0		59						1			2	2					5	31				Nannofossil Clay	
28	X	1	35	545.85	D		12	88			1		58					1				1	2				5	2	30				Nannofossil Clay	
29	X	3	56	558.76	M	5	15	80					20	5					3							2			70				nannofossil chalk with clay	
29	X	3	57	558.77	D	0	20	80			5		20		1								5	2	2					65			nannofossil chalk with clay	
30	X	2	148	567.78	M	0	0	100					95							5													clay	
30	X	3	80	568.60	D	2	13	85					65	3	1				1					5					25				nannofossil clay	
31	X	2	47	576.47	M	0	30	70			5		50	25															20				dolomitic clay	
31	X	3	80	578.30	D	5	15	80					65	10															25				nannofossil clay	

Sample				Texture			Mineral																Biogenic							Rock	Comments				
Core	Type	Section	Interval Top (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Accessory Minerals (1)	Biotite (22)	Calcite (30)	Carbonate (35)	Clay (47)	Dolomite (62)	Fe Oxide (68)	Feldspar (71)	Glauconite (82)	Mica (118)	Opakes (140)	Plagioclase (159)	Pyrite (169)	Quartz (172)	Volcanic Glass (81)	Zeolite (222)	Algae (5)	Diatoms (58)	Foraminifers (78)	Nannofossils (132)	Radiolarians (173)	Silicoflagellates (189)		Sponge Spicules (199)	Igneous Rock Fragments (94)		
32	X	3	80	588.00	D	0	10	90					65	2					2			1												nannofossil clay	
34	X	3	80	607.20	D	0	10	90					75	2	2				1															nannofossil clay	
35	X	1	72	613.72	M		24	76			3		49	10				1			2	5				1	4	25						Clay with Nannofossils and Dolomite	
35	X	3	38	616.38	D		13	87			2		57	3				1			2	3				1	1	30						Clay with Nannofossils	
36	X	1	36	622.96	D		15	85			0		54	2				1			2	4				1	1	35						Nannofossil Clay	
36	X	3	96	626.56	M	1	45	54			40		16								1					1	2	40						Nannofossil and Calcite Chalk with Clay	
37	X	1	30	632.50	D		15	85			1		51	1	1						3	3				1	1	38						Nannofossil Clay	
37	X	3	31	635.51	M		32	68			3		33	20				1			1	4				1	2	35						Nannofossil Clay with Dolomite	
37	X	5	86	639.06	M	30	6	64					29	2	30							1				1	2	35						Nannofossils and Fe-Oxide with Clay	
38	X	1	36	642.26	D		16	84			3		49	7				1			1	4						35						Nannofossil Clay	
38	X	2	38	643.78	M		34	66			1		31	22							3	2				1	5	35						Clayey Nannofossils with Dolomite	
39	X	3	80	703.60	D	5	15	80	2				80						1			2							15					Claystone with nannofossils	
40	X	2	112	712.12	M	5	5	90	8				55			2			5			5				5	5	15						Clay with Nannofossils	
40	X	3	80	713.30	D	5	10	85					65	2	1				1				1				10	20						Clay with nannofossils	
41	X	3	80	722.87	D	5	15	80					70	2	2	2			2									2	10					clay	
42	X	3	80	732.50	D	10	15	75	2				60		1							10		1			1	25						nannofossil clay	
43	X	3	80	742.10	D	3	7	90	1				70	2	1								2	2			2	20						clay with nannofossils	
44	X	3	80	751.82	D	5	15	80	2				55	5	1				1			3	2	1			5	25							
45	X	3	80	761.10	D	5	15	80	5				65						10									20						Clay with Nannofossils	
46	X	1	38	767.28	D		12	88			1		71	1				1			2	3				1		20						Clay with Nannofossils	
46	X	1	148	768.38	M	70	20	10	1				6			30		1			10	45	2					5						Quartz and Feldspar Fine Sand with Pyrite	
47	X	1	30	775.50	D	2	15	83			1		58	2				1			3	5					5	25						Nannofossil clay	
47	X	3	37	778.57	M	0	0	100									100																	Glauconite	
48	X	1	25	785.05	D	10	15	75					53			2	1	2	2			15					5	15						5	Claystone with Quartz and Nannofossils
48	X	2	62	786.92	M	70	15	15	3		10		5			3	3	5	5			32					6	8						20	Sandstone
49	X	1	36	794.86	D		16	84			2		67	3							3	3					7	15							Clay with Nannofossils
50	X	1	35	804.45	D		27	73			3	6	63	2							2	4					10	10							clay with nannofossils and forams
50	X	3	114	808.24	M	40	40	20					20								10	10	60												altered ash
51	X	2	65	810.85	D	5	15	80	1				55			1			3			3	2				10	25							NANNOFOSSIL CLAY
51	X	2	75	810.95	D	2	5	93		2			80									3					10	5							CLAY
51	X	2	110	811.30	D	0	5	95					85										5	5			5								CLAY
52	X	1	21	814.91	D	5	5	90	1				65		5				2			5	2					20							CLAY
52	X	1	60	815.30	M	50	25	25		5			35	10	5				5			10					15	15							
56	X	1	36	843.96	D		15	85			2		57	1				1			2	2					5	30							Nannofossil Clay