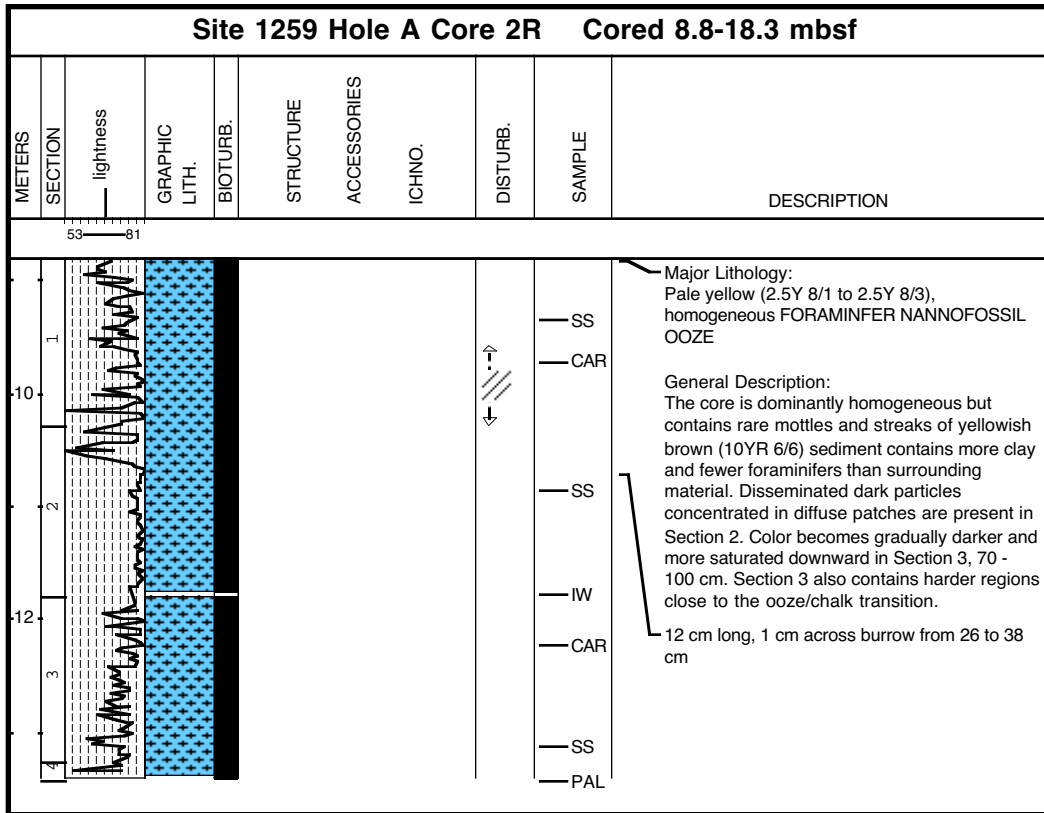
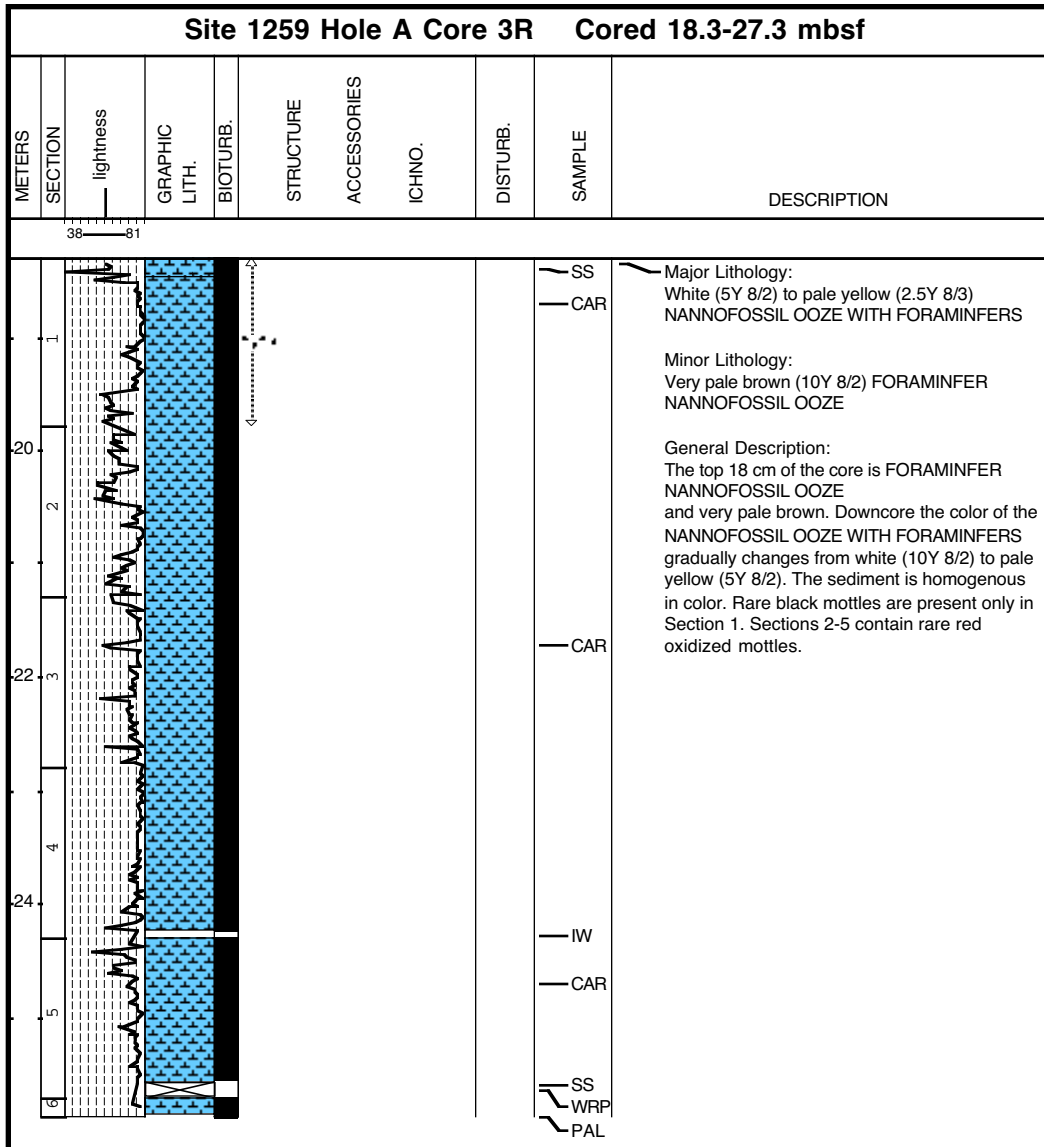




Core Photo



Core Photo





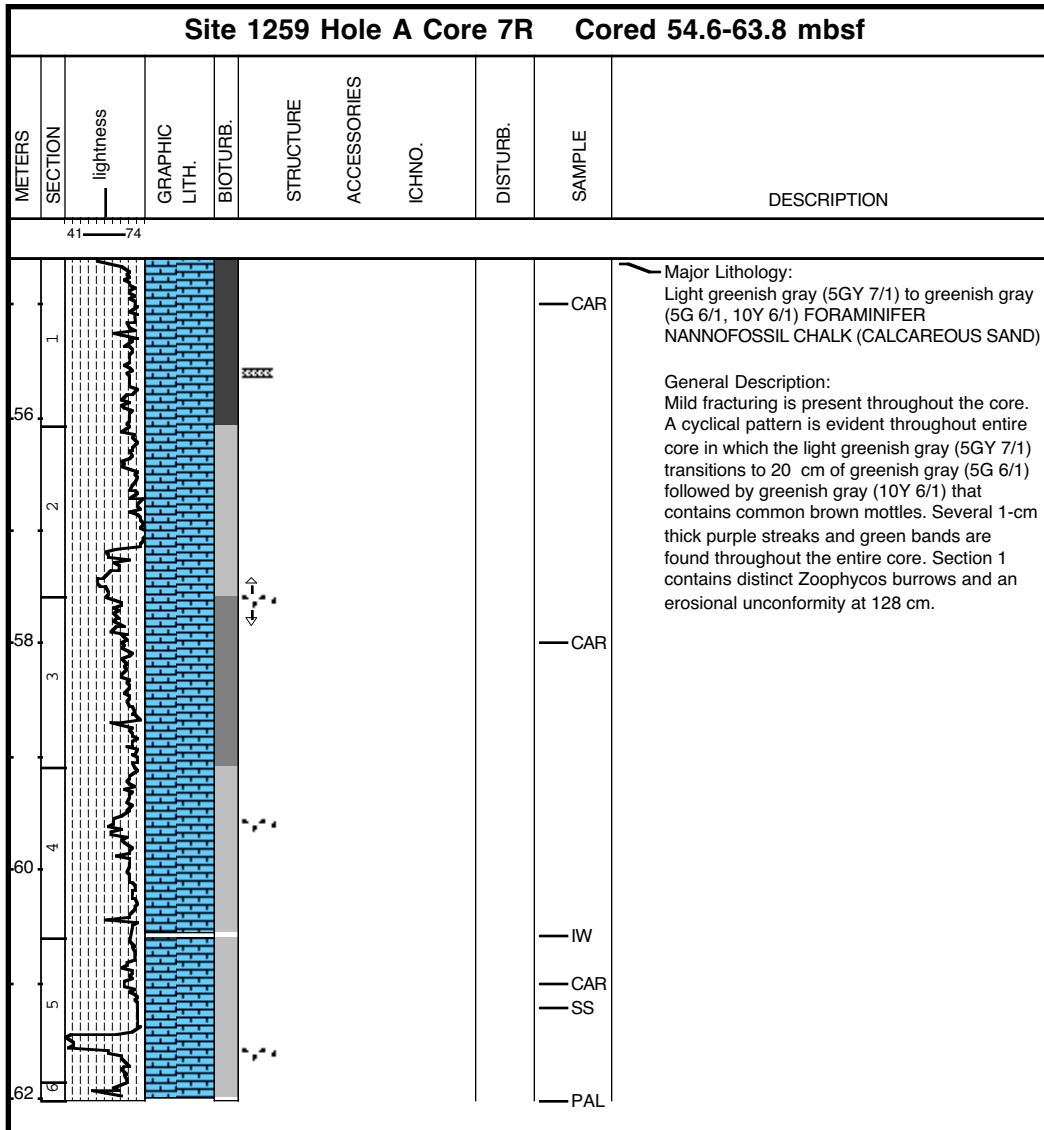
Core Photo

Site 1259 Hole A Core 5R Cored 36.4-45.5 mbsf										
METERS	SECTION	lightness	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	DESCRIPTION
43		75								
38										<p>Major Lithology:                      Pale yellow (5Y 8/3, 5Y 8/2) and yellow (2.5 7/6) to light gray (5Y 7/2) and light greenish gray (5GY 7/1) FORAMINIFER NANNOFOSSIL CHALK (CALCAREOUS SAND)</p> <p>General Description:                      A rhythmic banding is present throughout the entire core. Pale yellow and yellow banding gradually changing to light gray and light greenish gray bands at about 40 cm intervals.</p>
2									CAR SS CAR SS IW	
40										
4									CAR PAL	

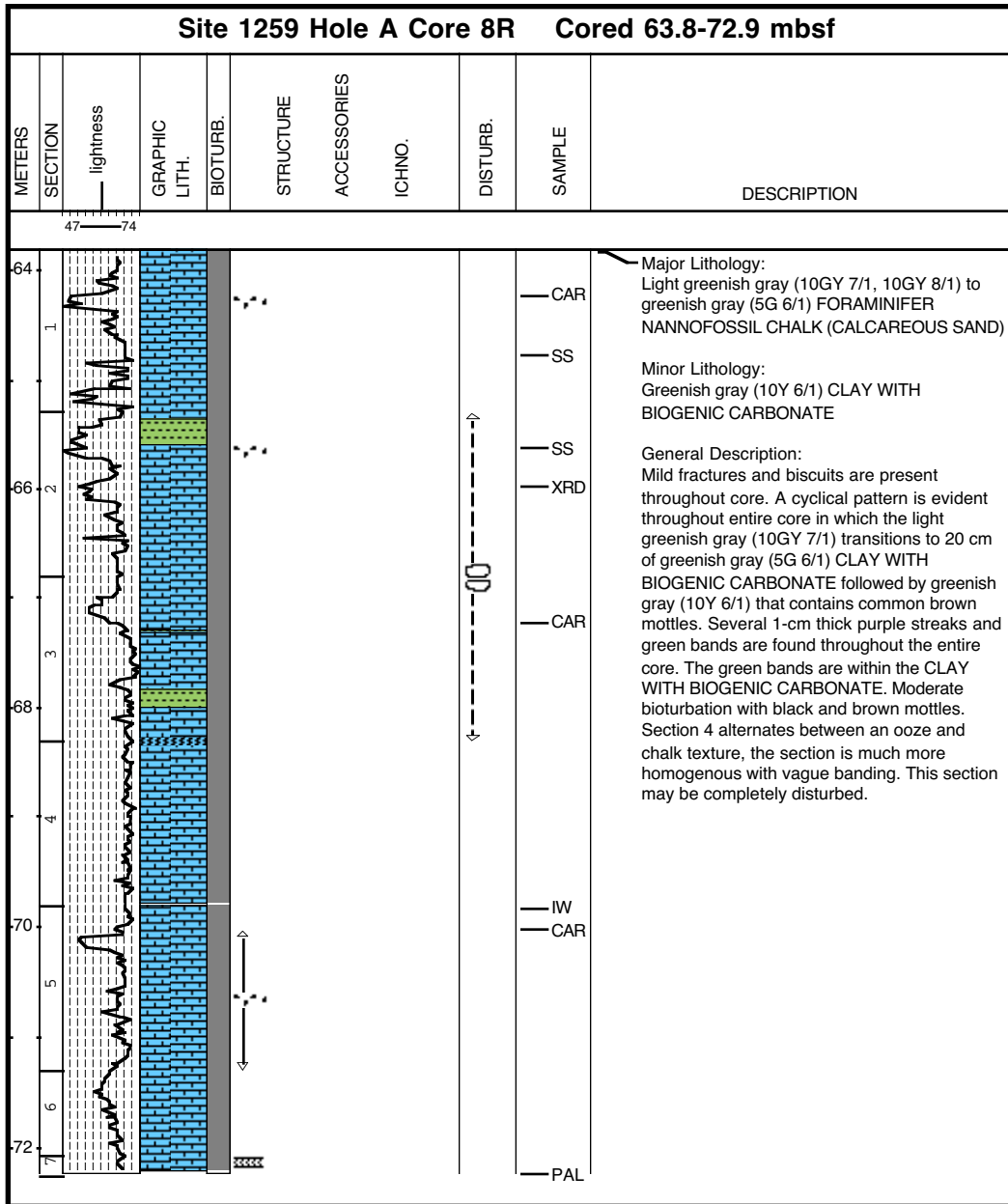
Core Photo

Site 1259 Hole A Core 6R Cored 45.5-54.6 mbsf										
METERS	SECTION	lightness	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	DESCRIPTION
46	1									Major Lithology: Light greenish gray (5GY 7/1) FORAMINIFER NANNOFOSSIL CHALK (CALCAREOUS SAND)  General Description: The core is moderately bioturbated with white and greenish gray burrows. Green bands are located throughout the entire core, and have the same major lithology. Mild fracturing is present in intervals in Section 2.
48	2									
	3									
50	4									
										— CAR  — IW — CAR — SS — SS  — PAL

Core Photo

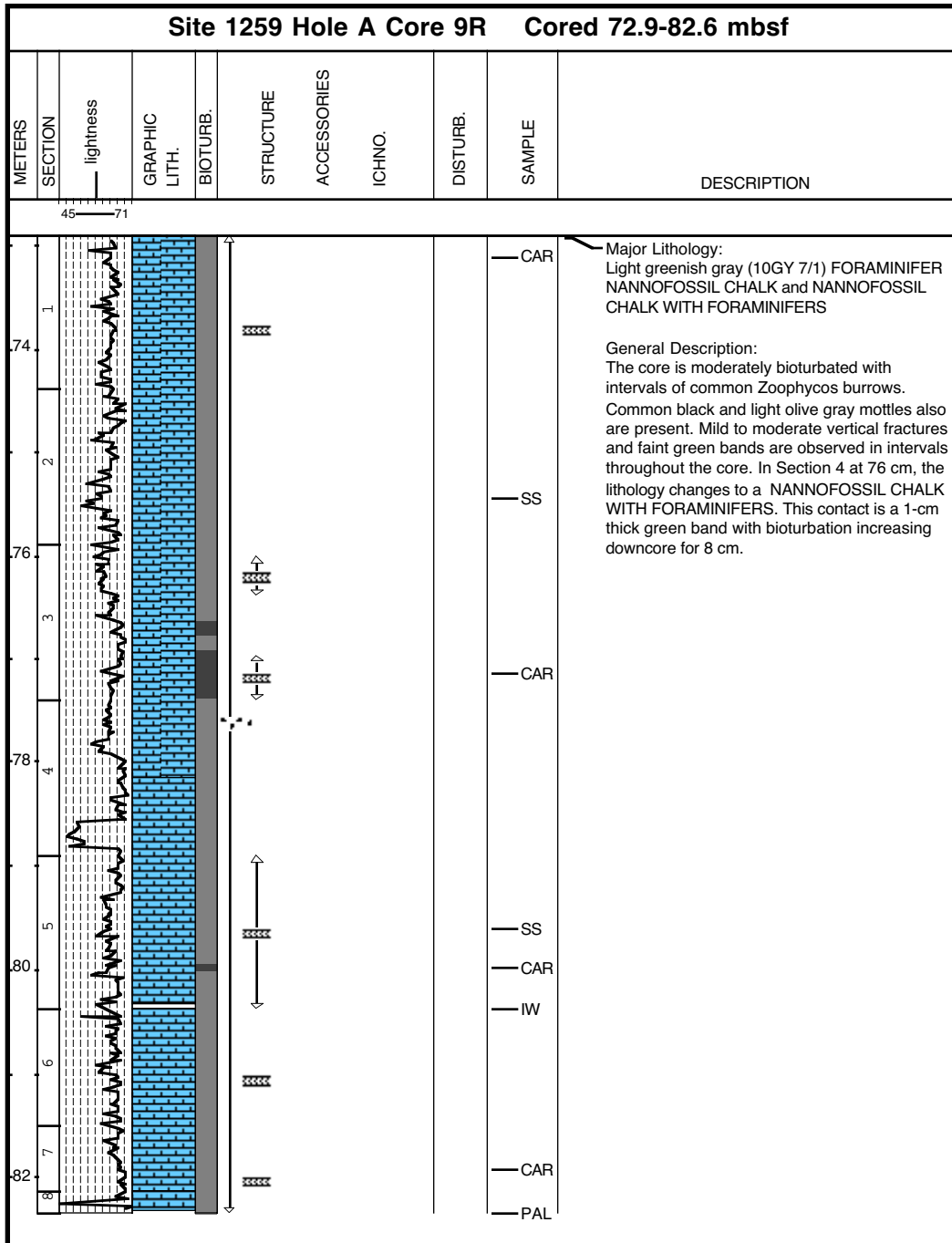


**Core Photo**



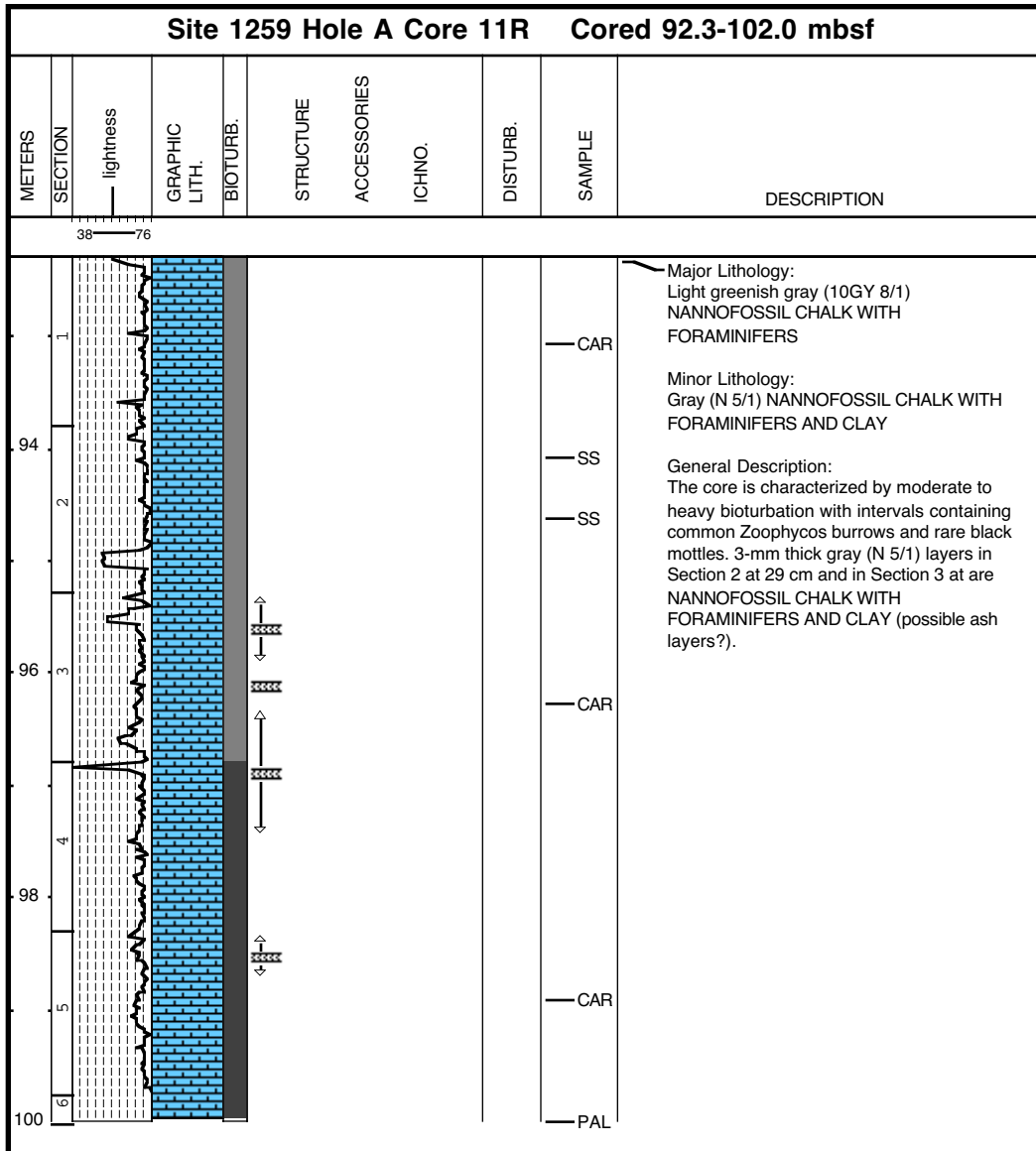


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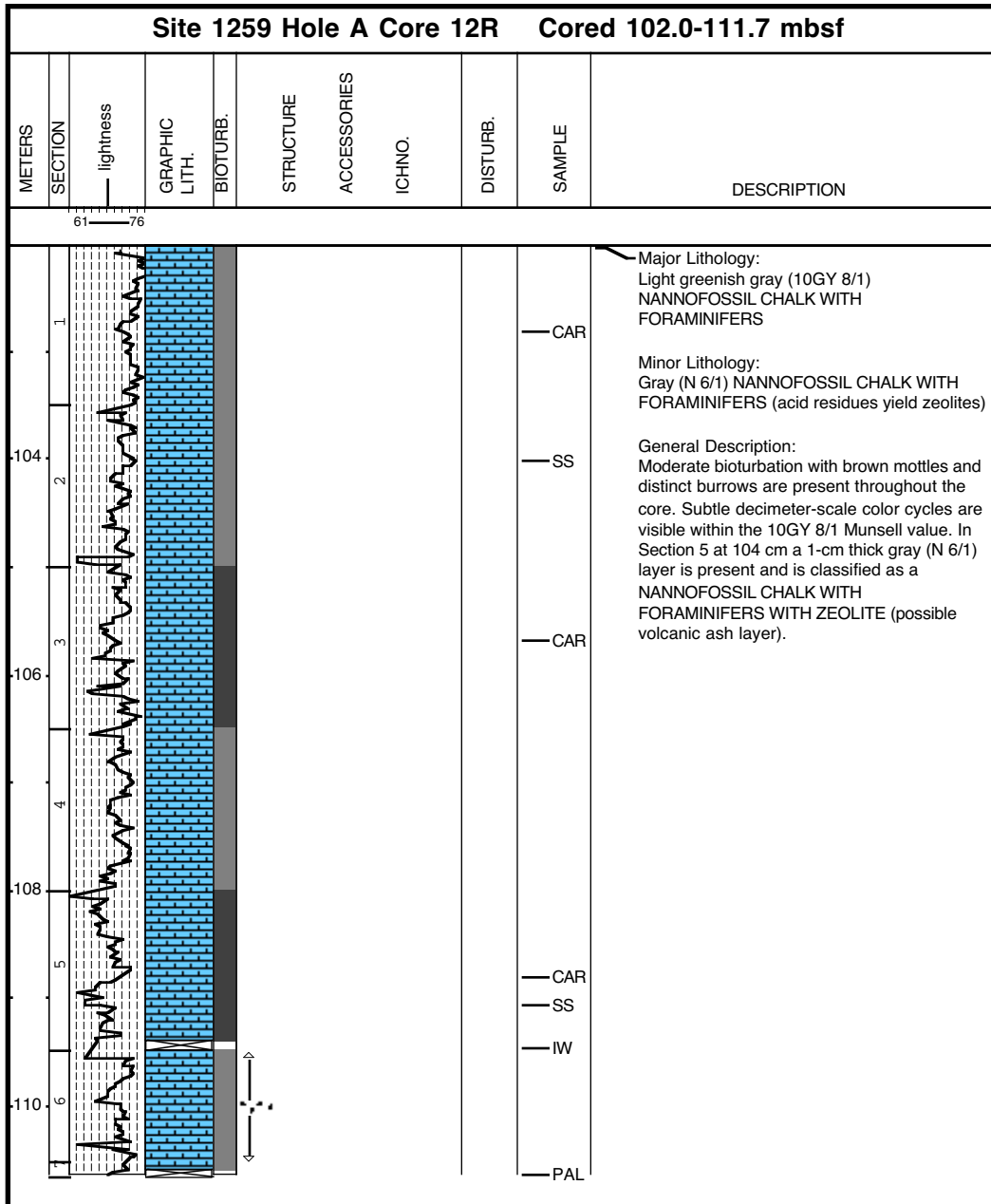




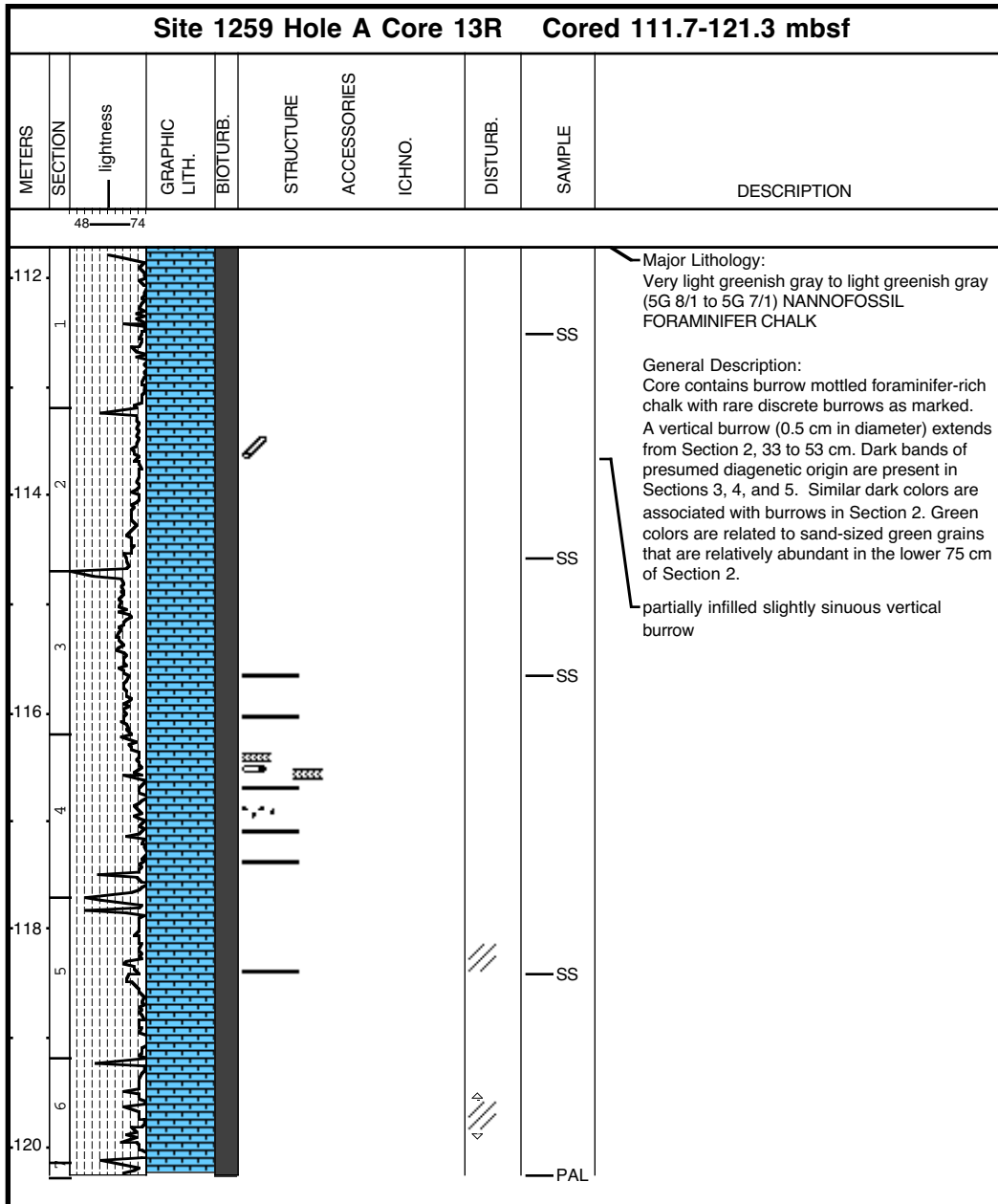
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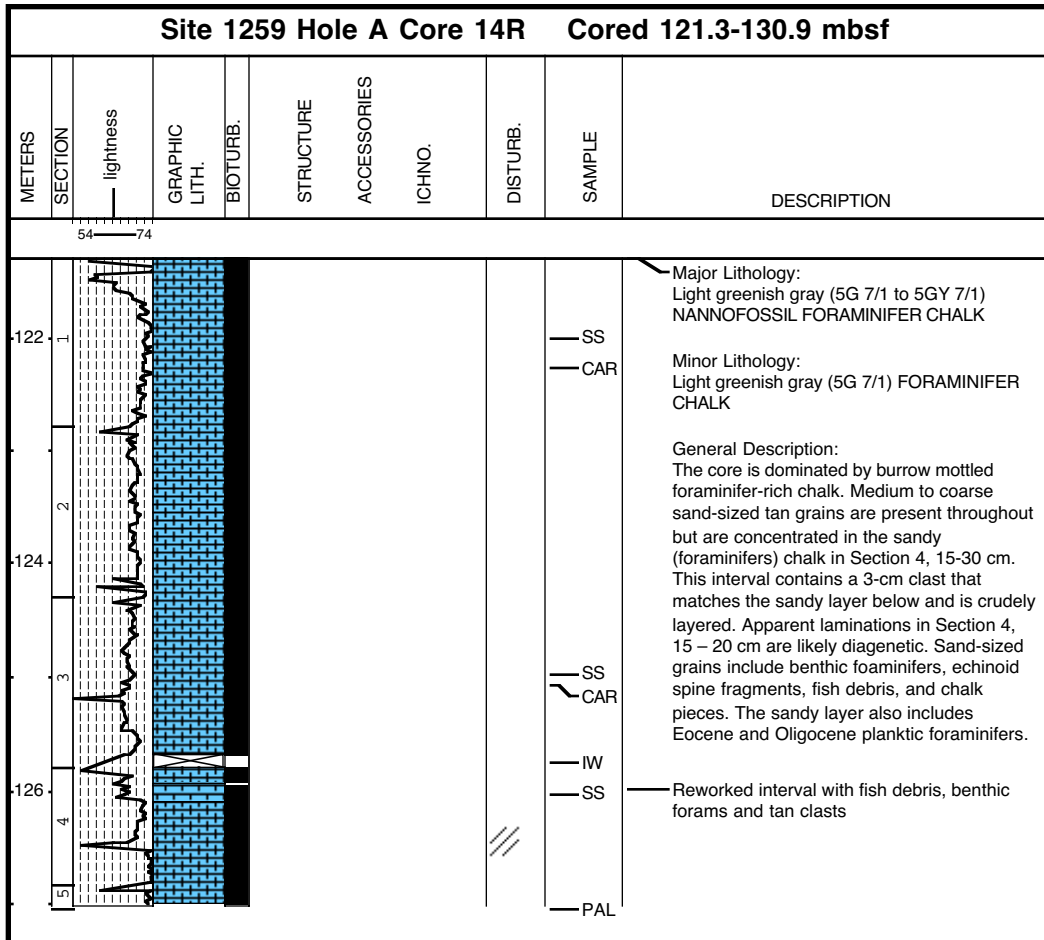
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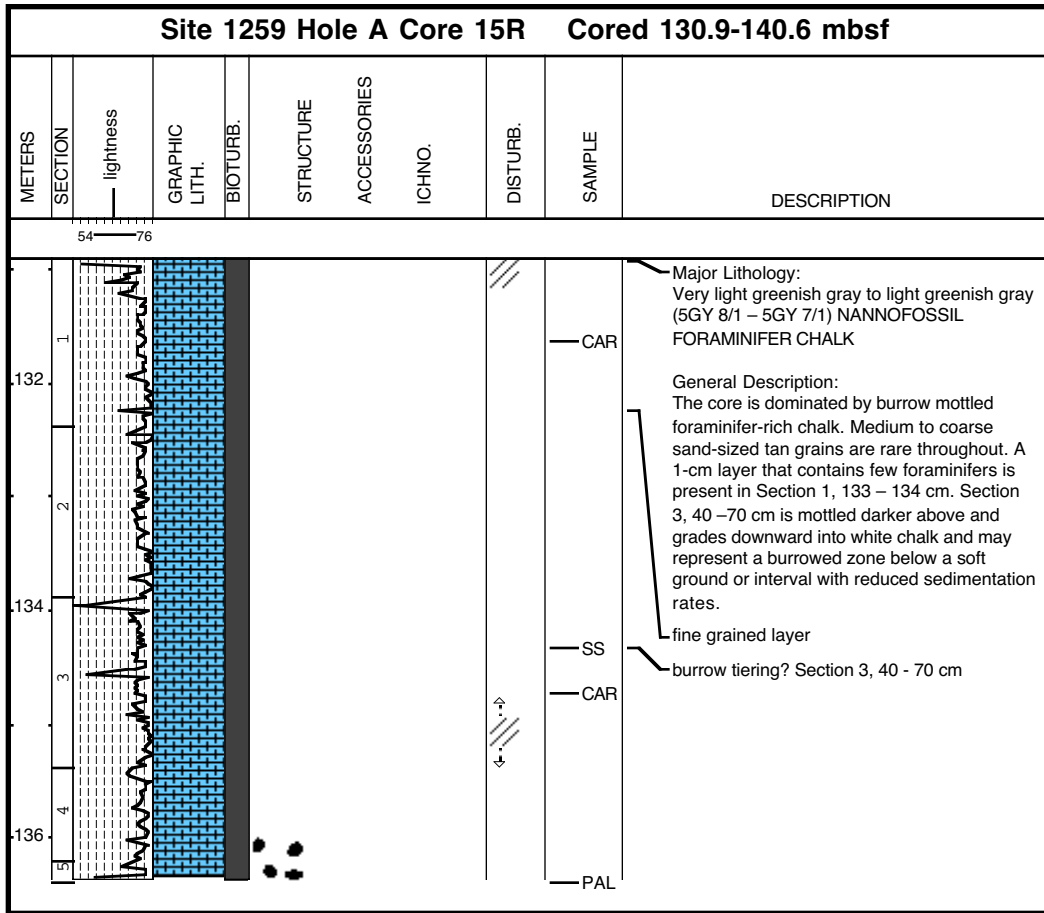
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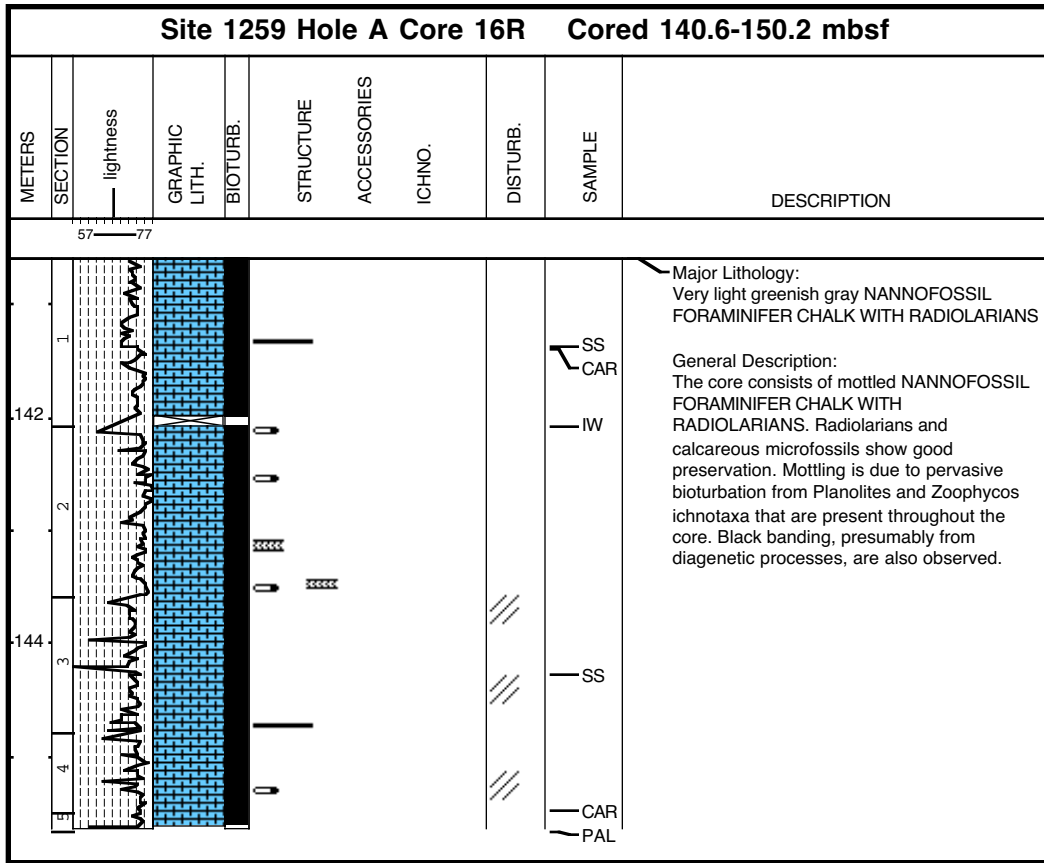
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Core Photo



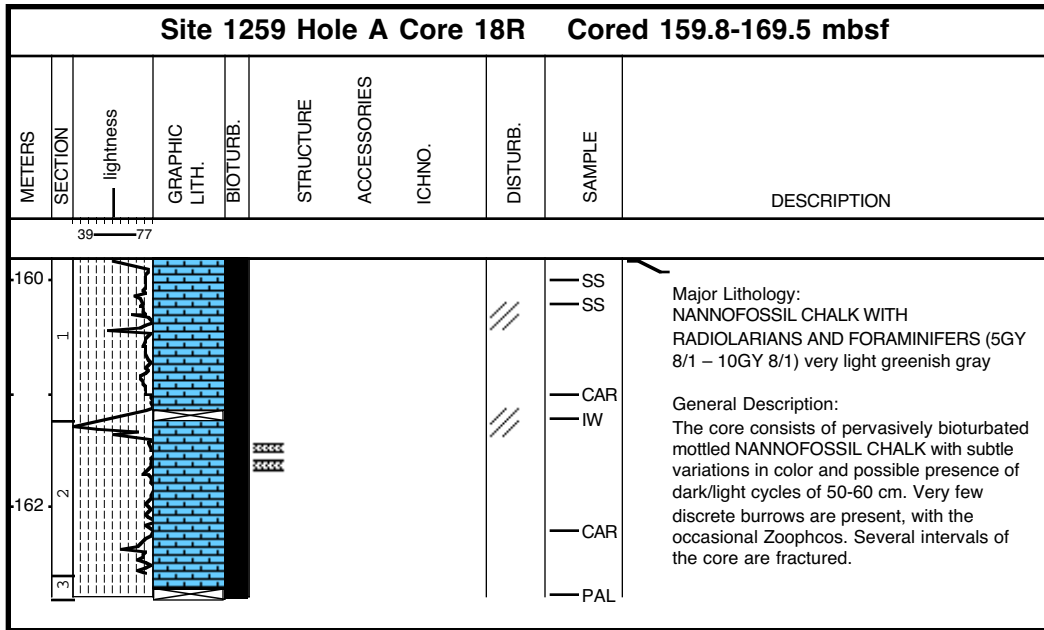
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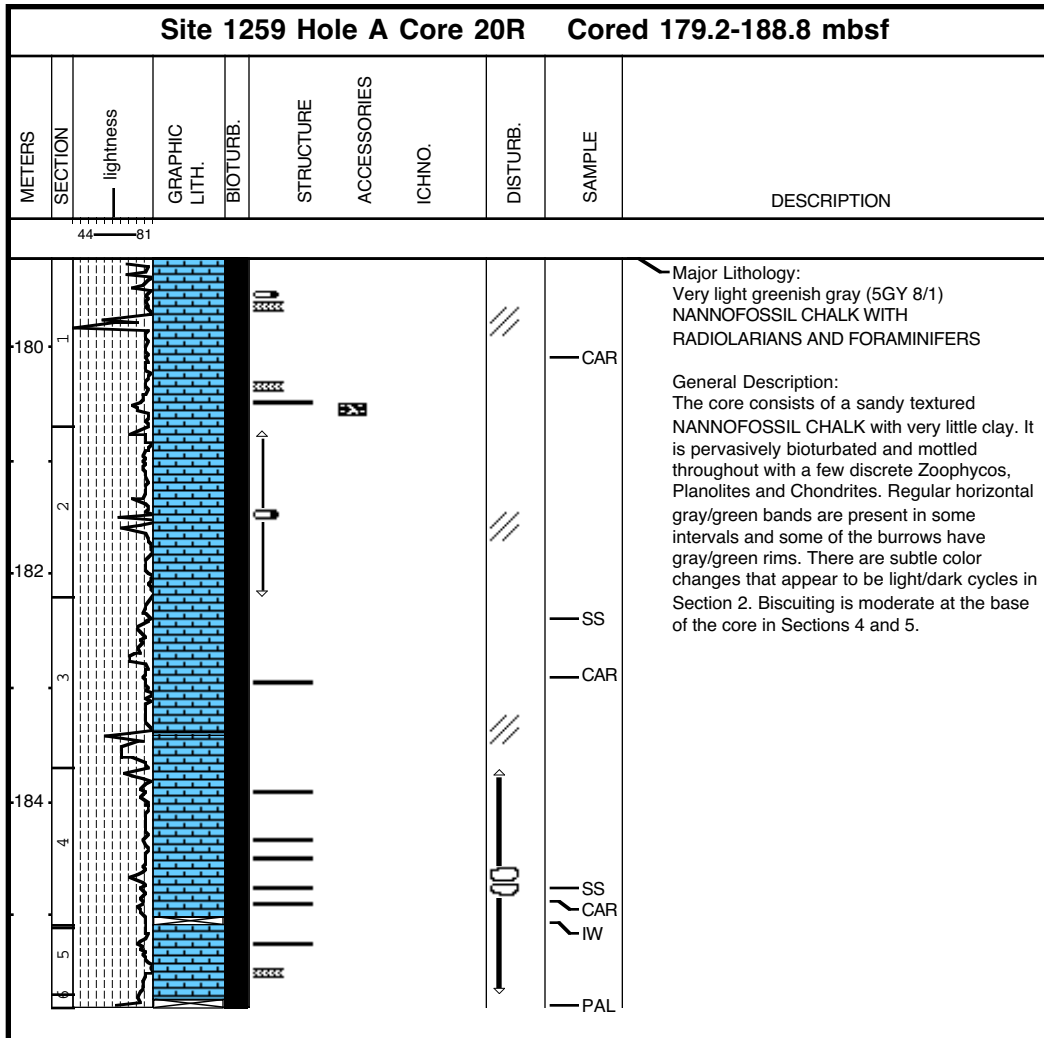


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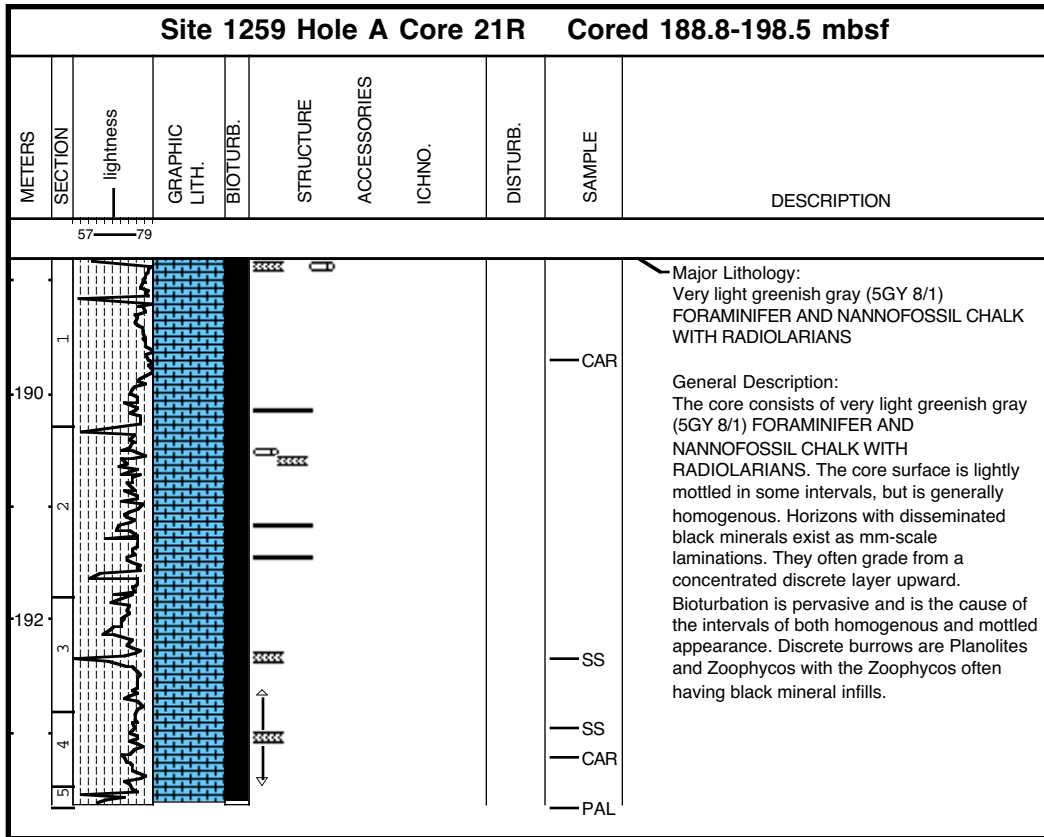




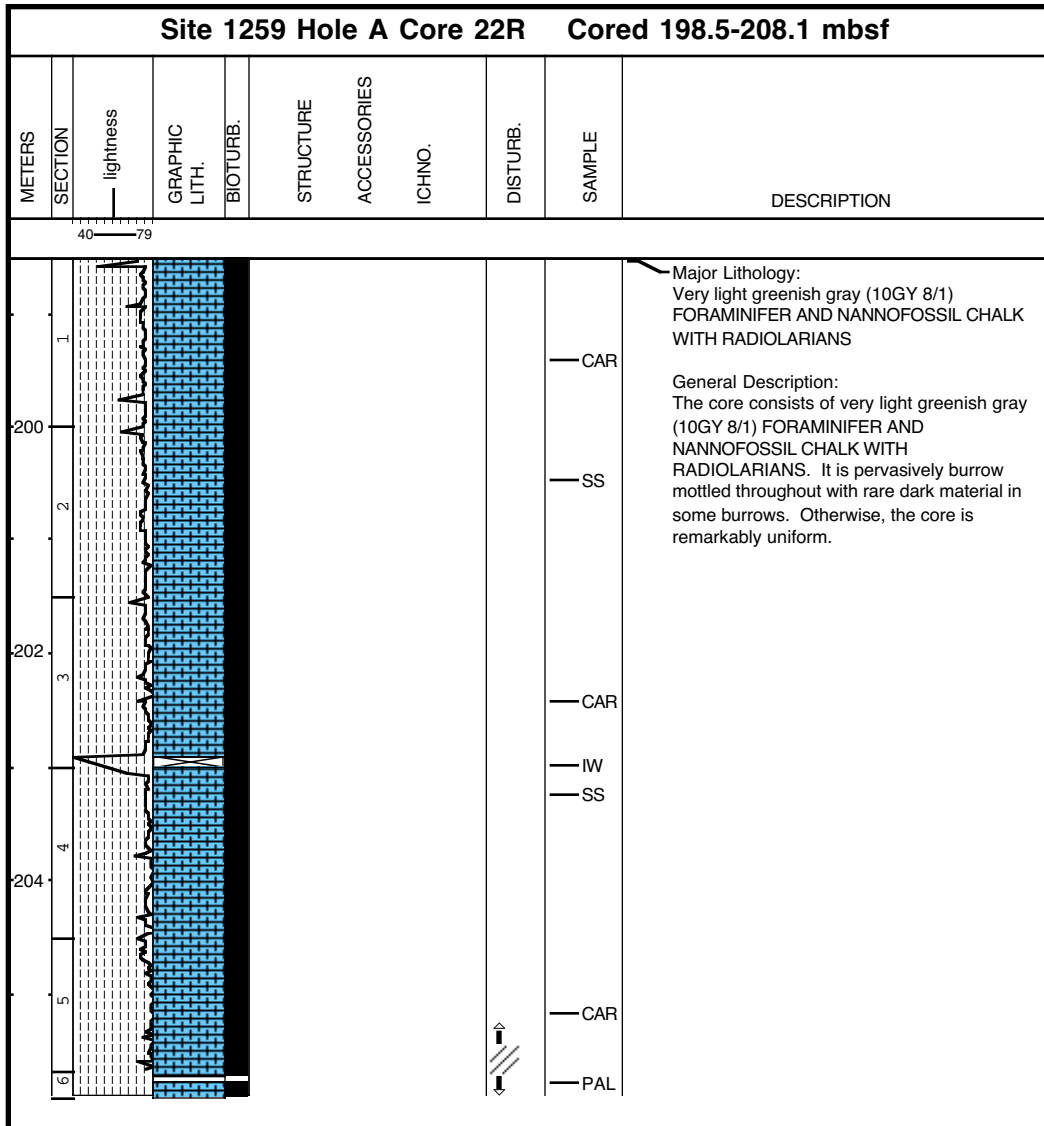
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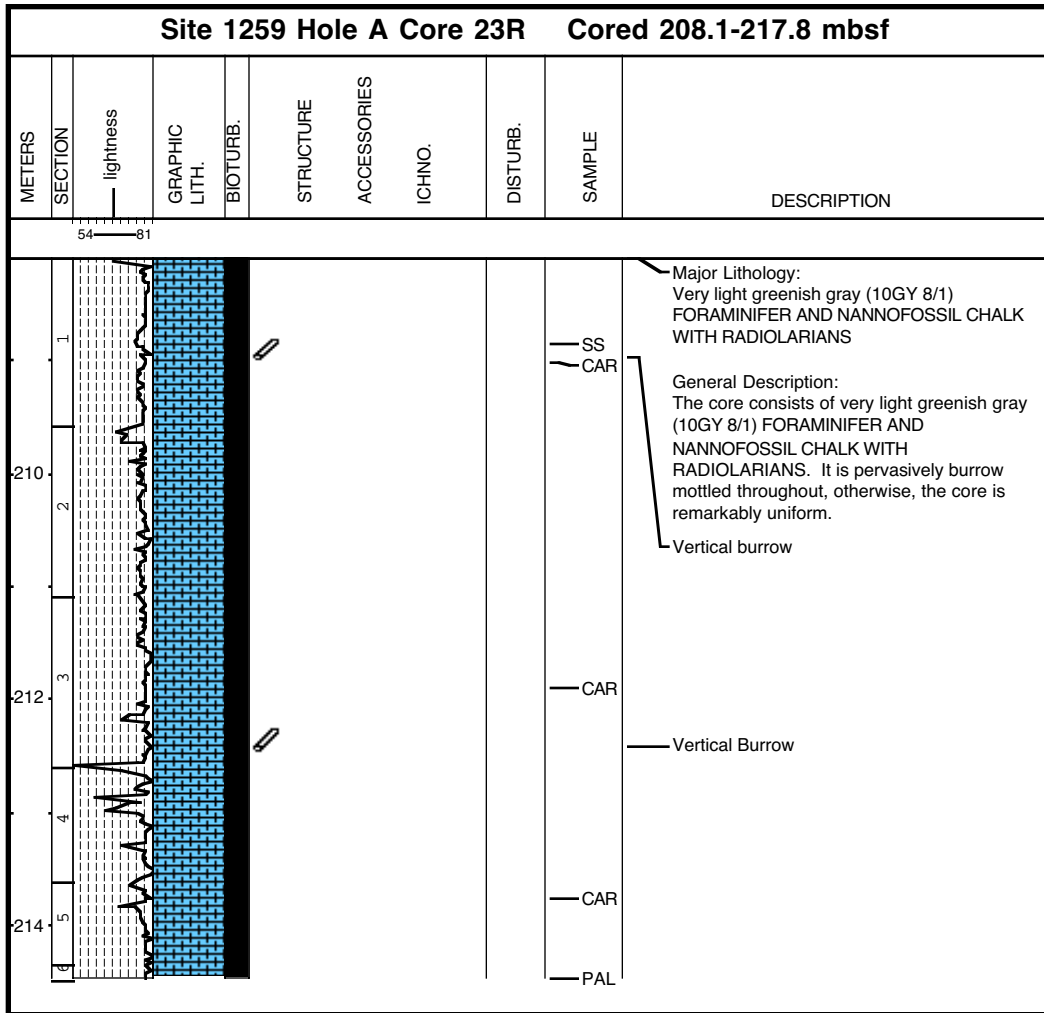
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Core Photo



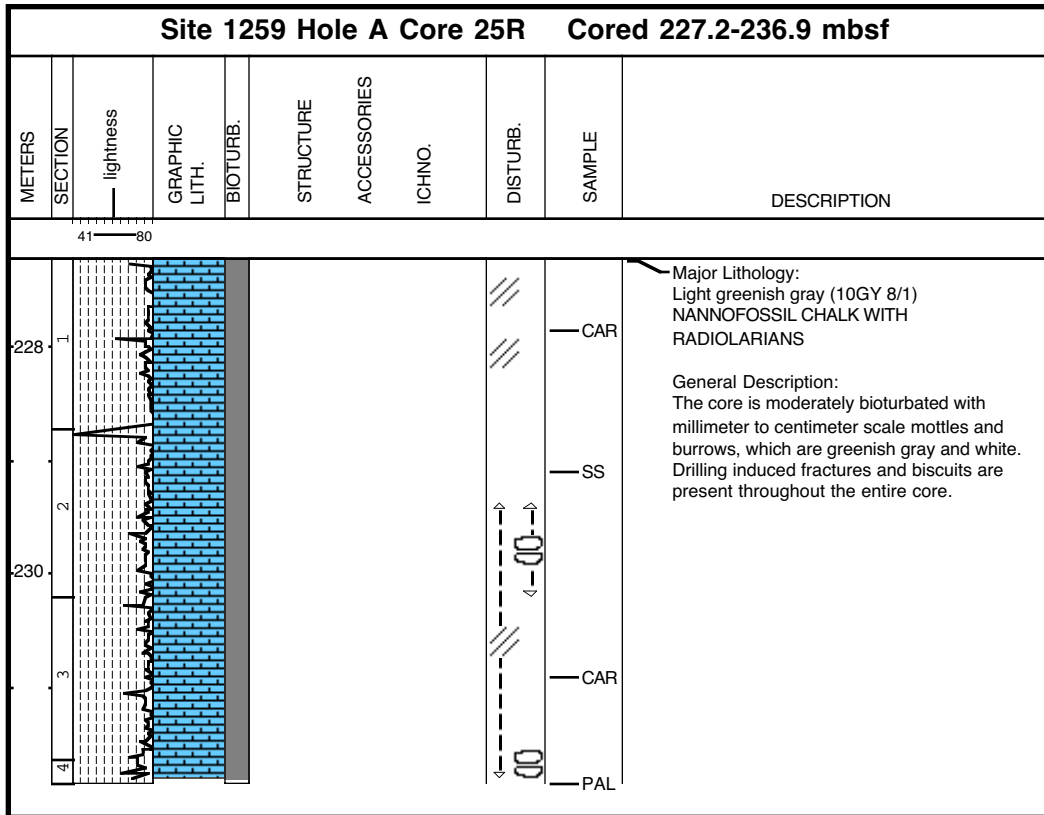
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Core Photo



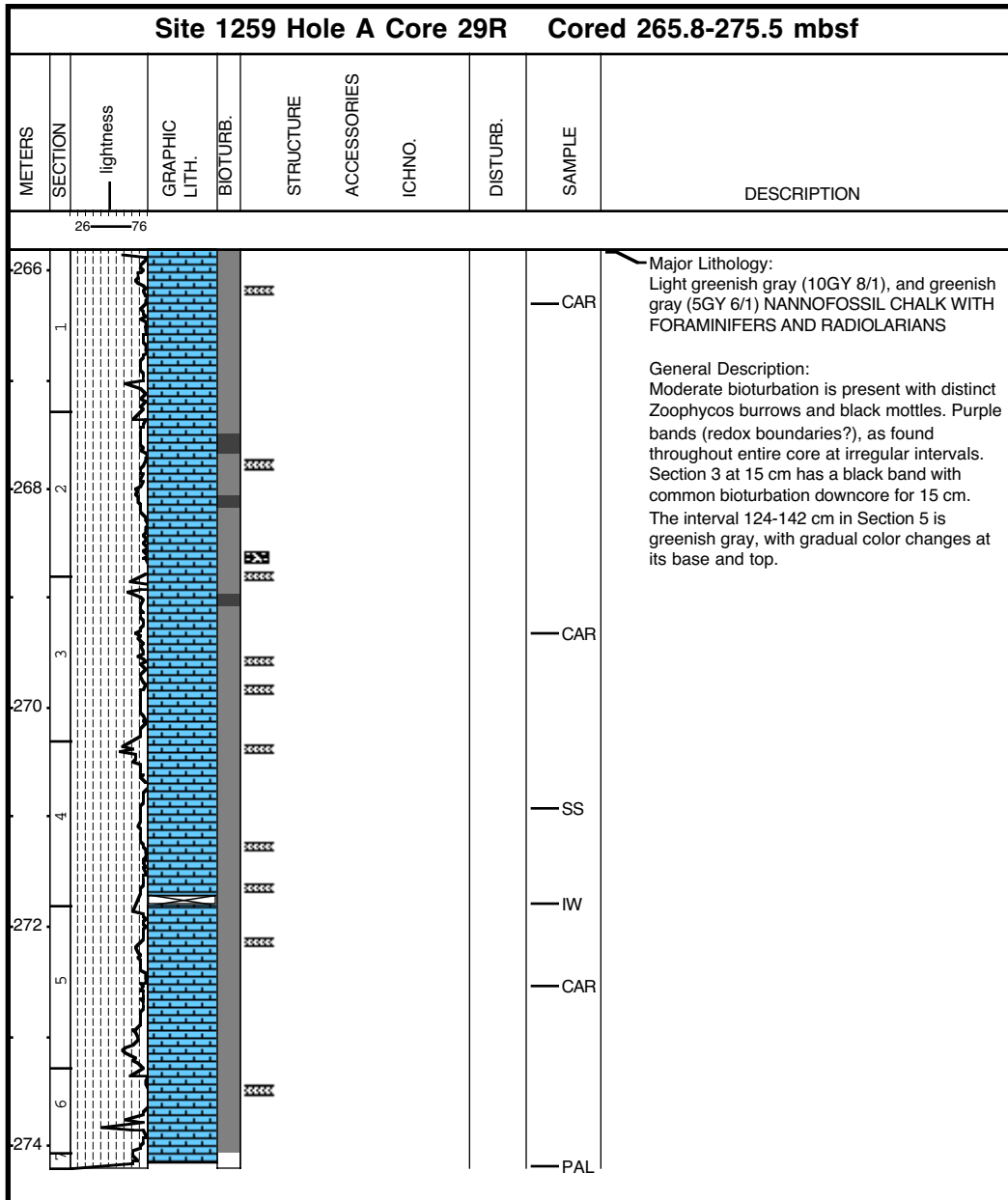




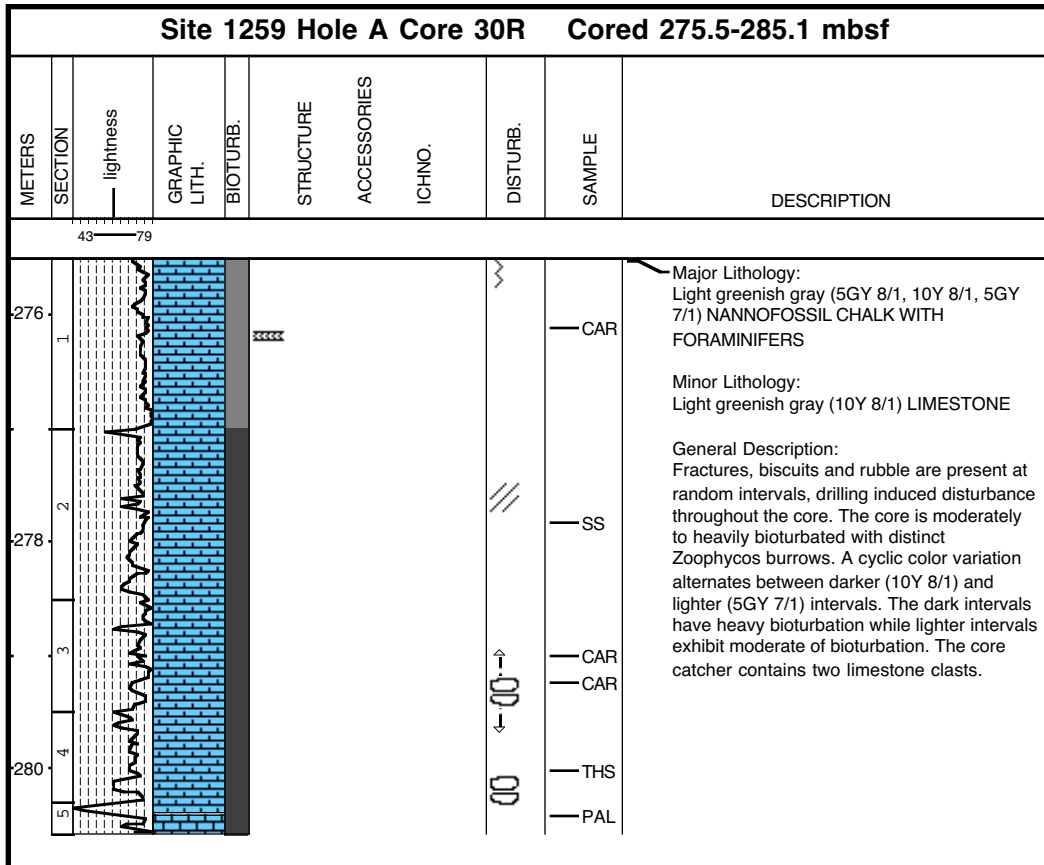
Core Photo

Site 1259 Hole A Core 28R Cored 256.2-265.8 mbsf							
METERS	SECTION	lightness	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DESCRIPTION
54	1						<p>Major Lithology:                      Light greenish gray (10GY 8/1)                      NANNOFOSSIL CHALK WITH                      FORAMINIFERS AND RADIOLARIANS</p> <p>General Description:                      The core is moderately bioturbated with distinct burrows. The top 15 cm of Section 1 is disturbed. Fracturing is present in parts of the rest of the core.                      The top of Section 2 were disturbed by headdress sampling.</p>
77	2						
258	3						

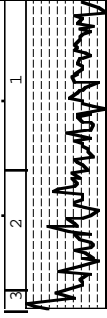
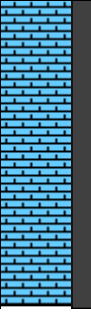

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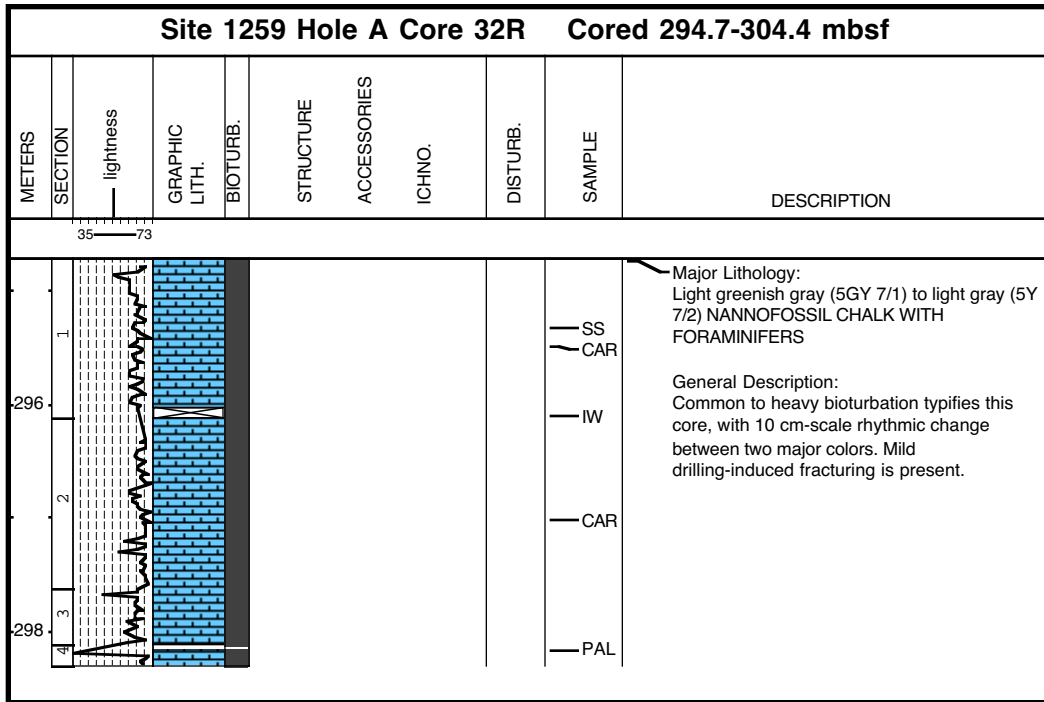
Core Photo



Core Photo

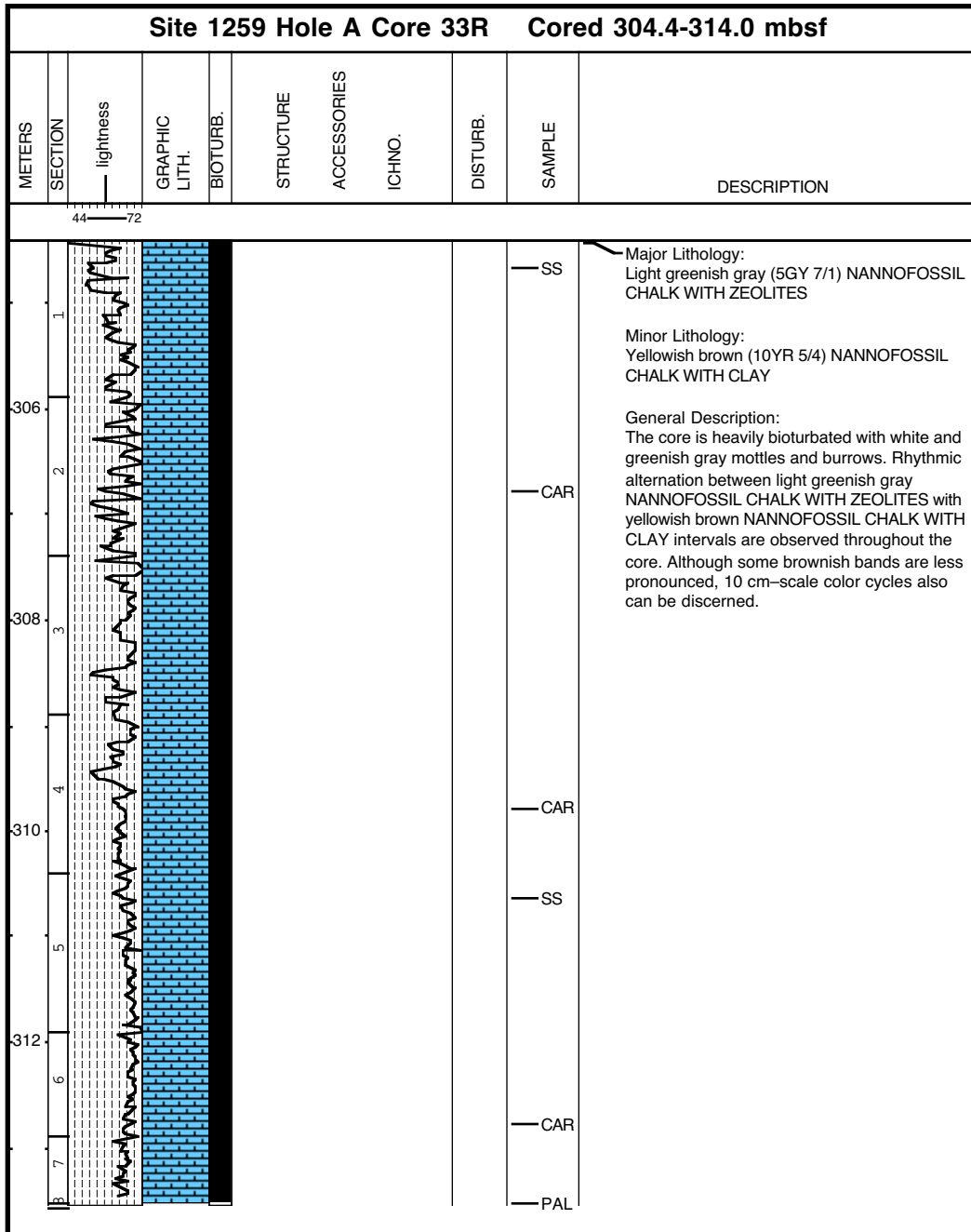
Site 1259 Hole A Core 31R Cored 285.1-294.7 mbsf										
METERS	SECTION	lightness	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	DESCRIPTION
48										
78										
286	1								SS	Major Lithology: Light greenish gray (5GY 7/1) to light gray (5Y 7/2) NANNOFOSSIL CHALK WITH FORAMINIFERS  General Description: Common to heavy bioturbation typifies this core, with 10 cm-scale rhythmic change between two major colors.
	2									
	3								PAL	

Core Photo

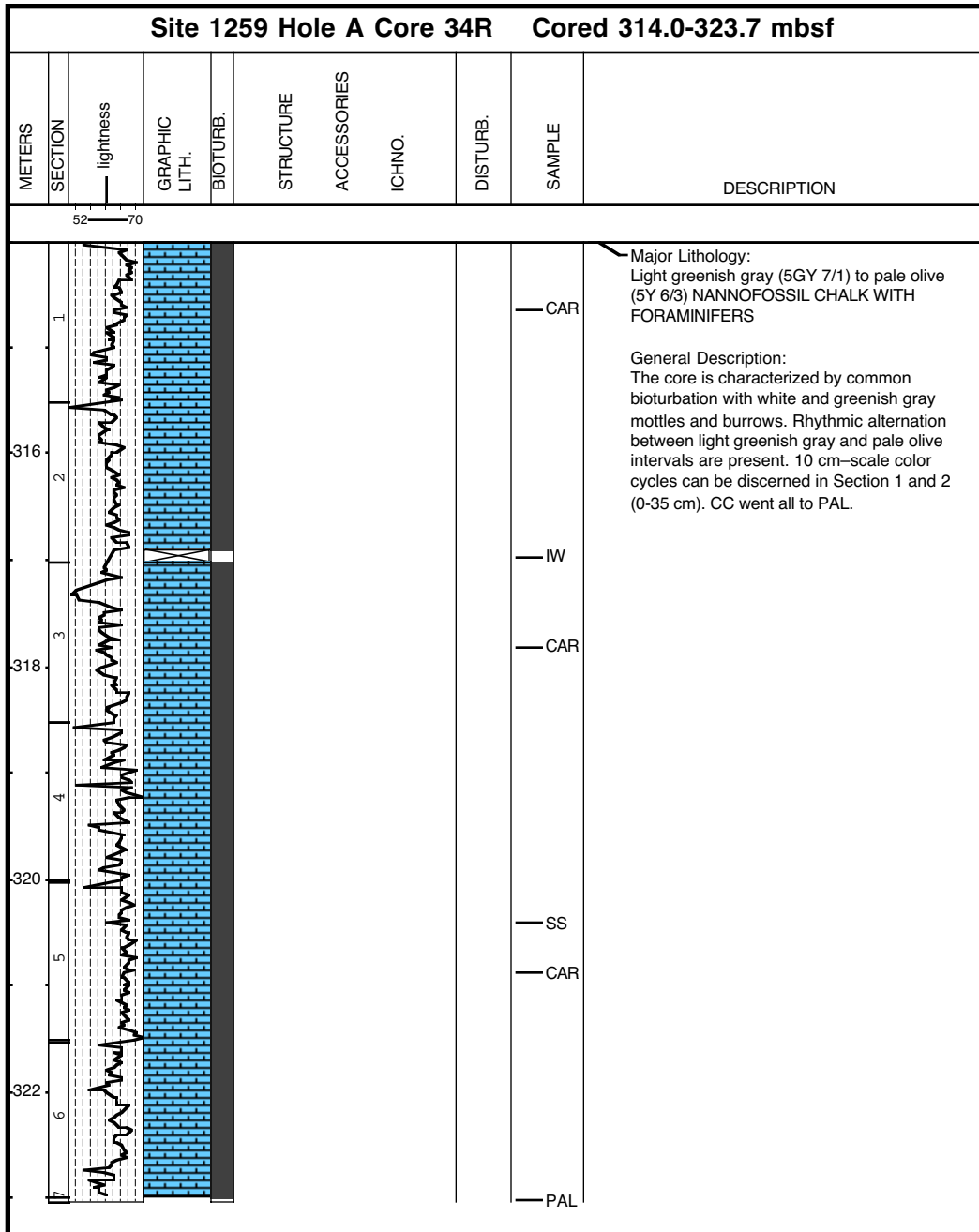




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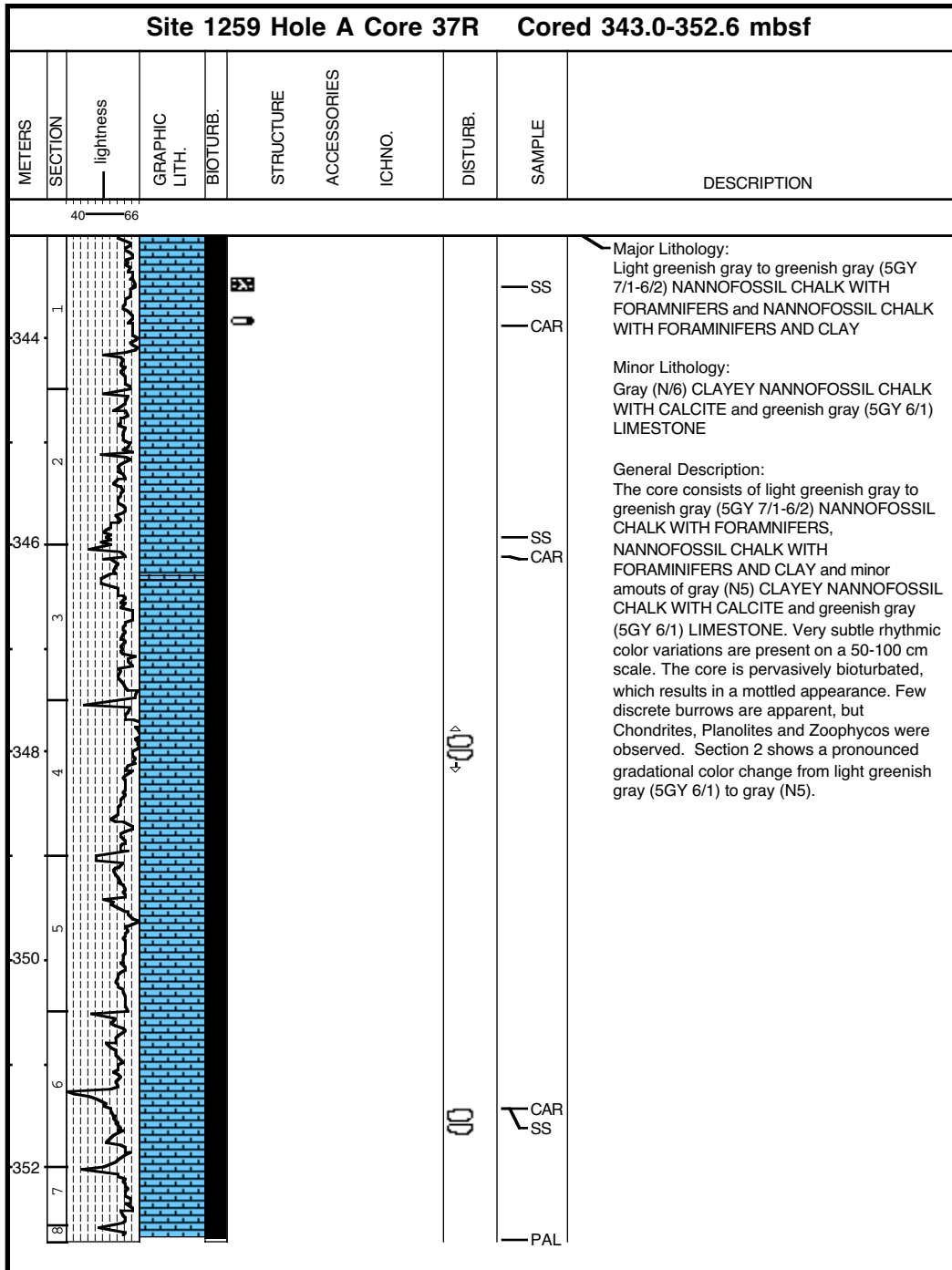
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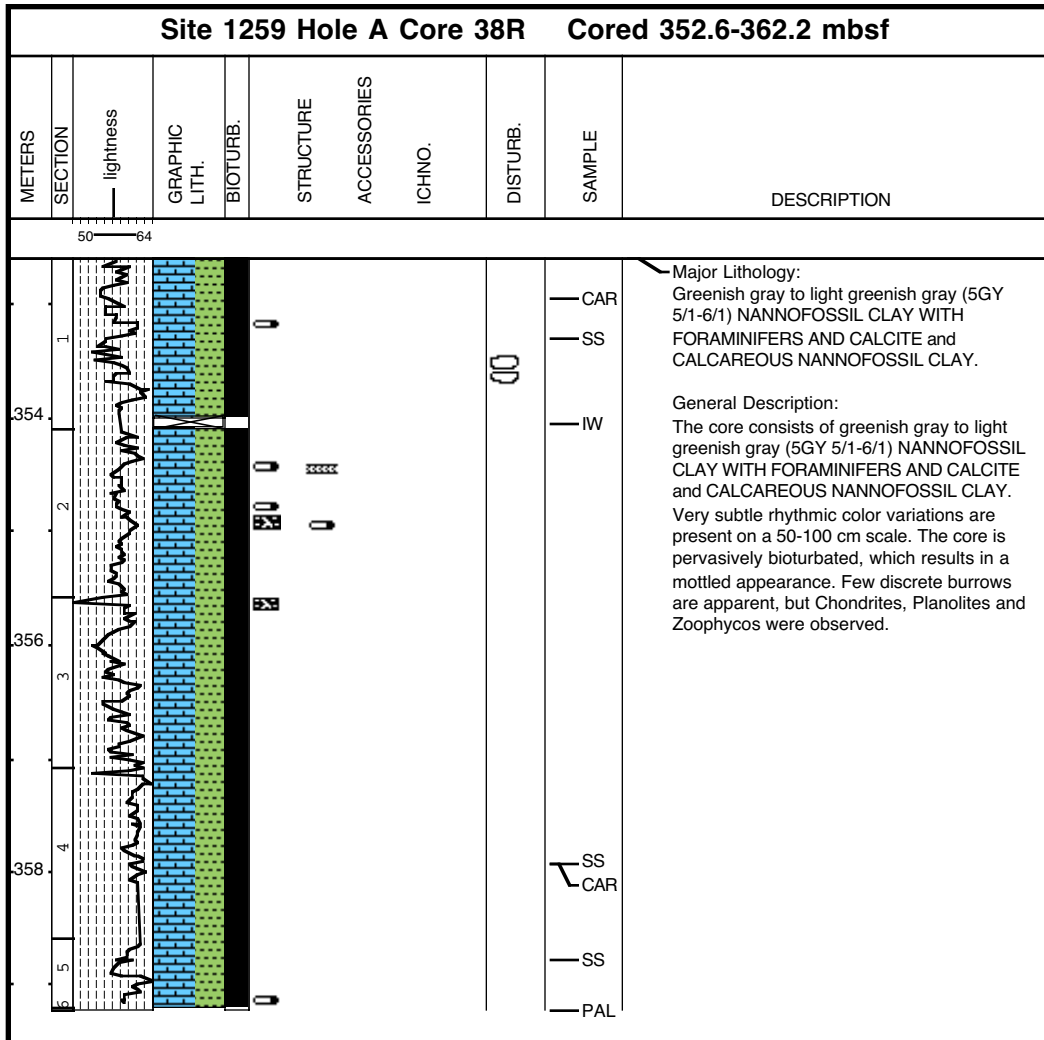




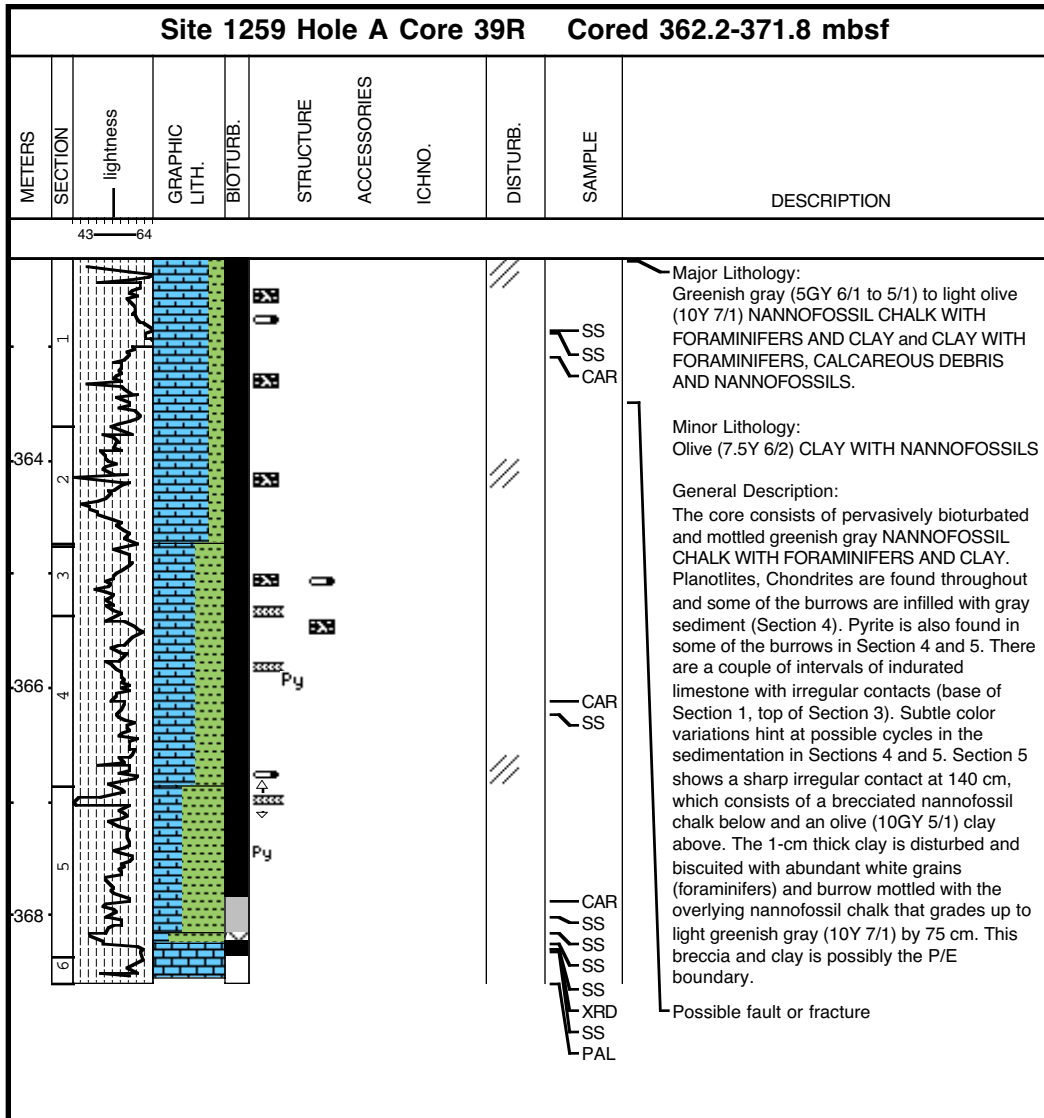
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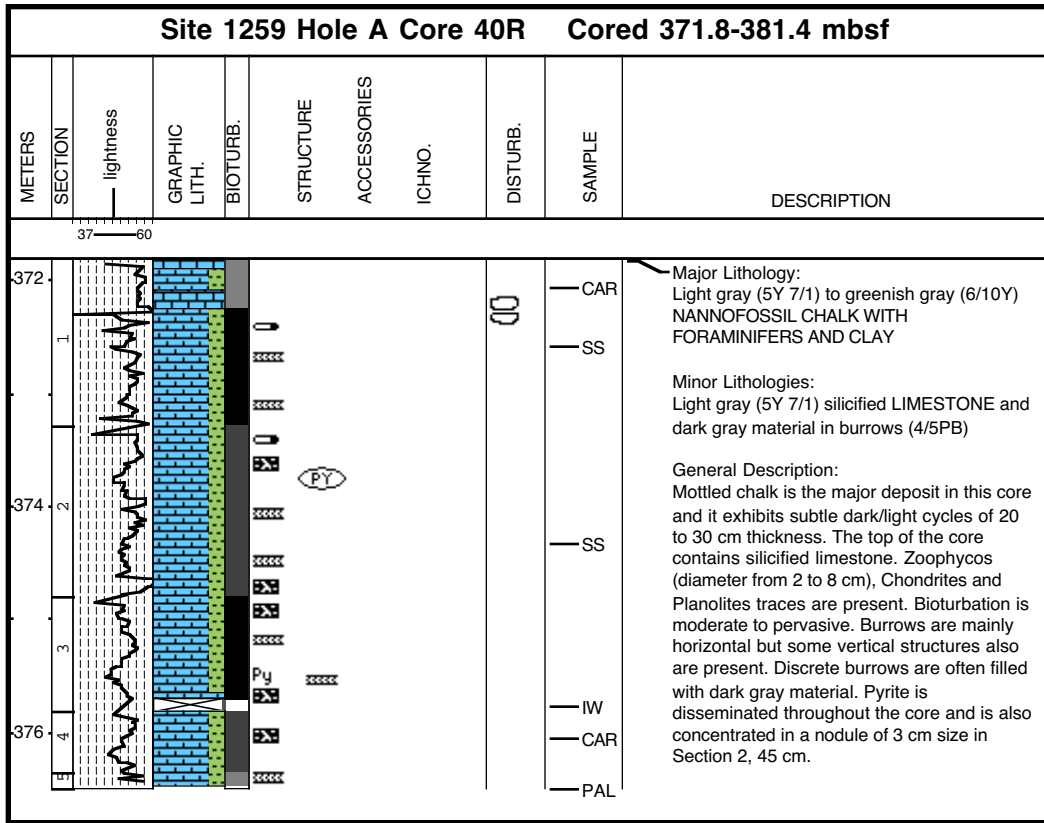
Core Photo



Core Photo



**Core Photo**



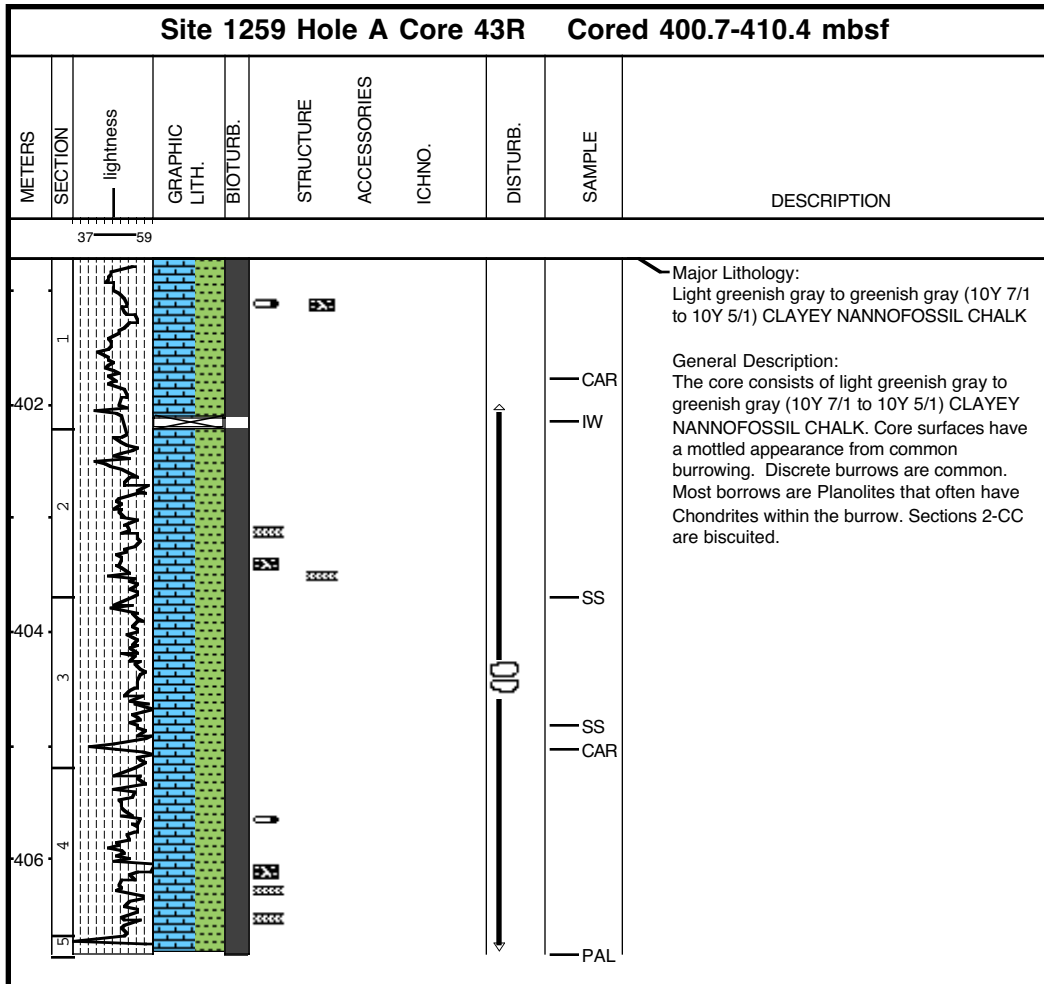


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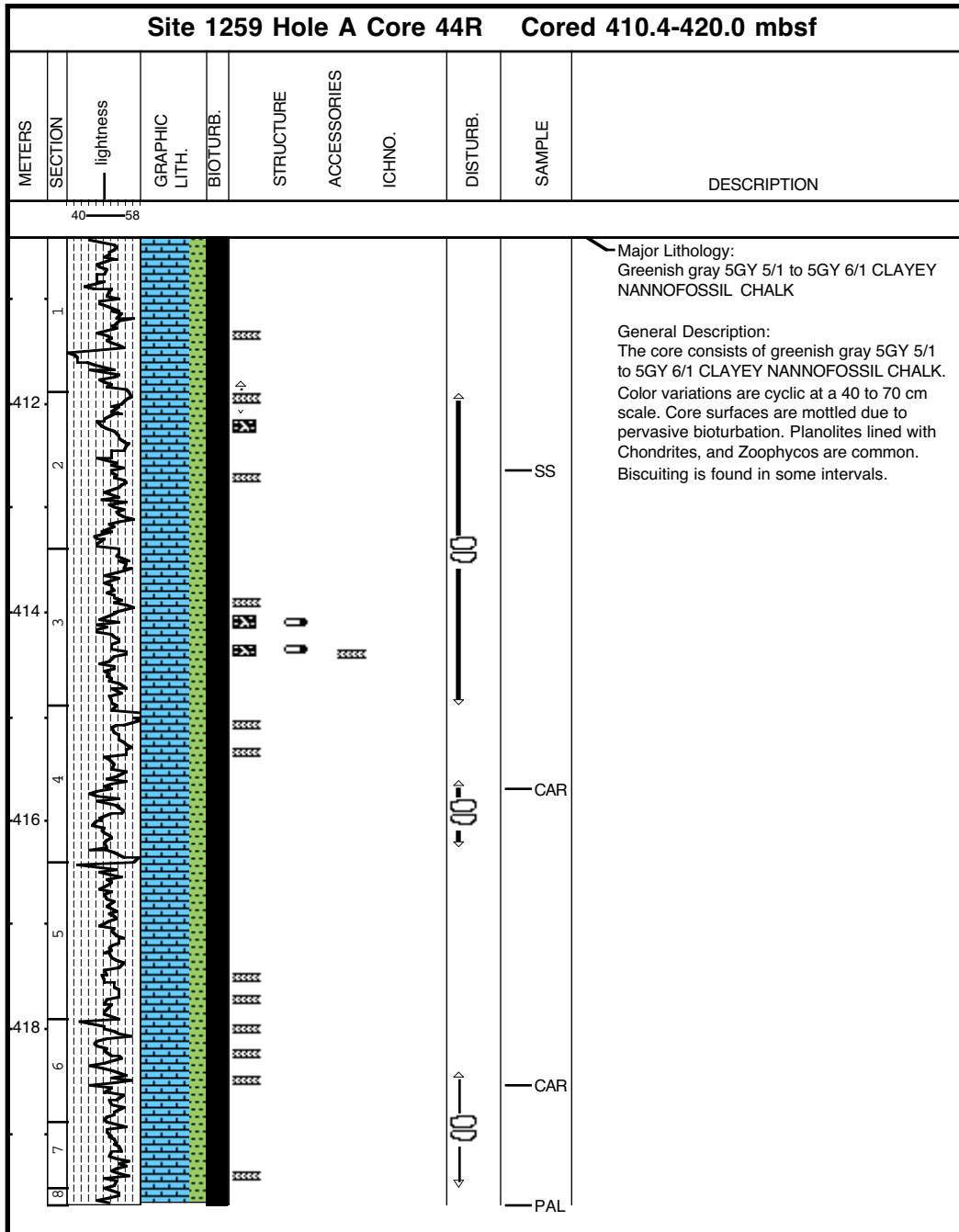
Site 1259 Hole A Core 41R Cored 381.4-391.1 mbsf										
METERS	SECTION	lightness	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	DESCRIPTION
35										
55										
<p>Major Lithology:                  Greenish gray (10Y 6/1 and 10Y 5/1)                  NANNOFOSSIL CHALK WITH CLAY</p> <p>General Description:                  The core is a mottled nannofossil chalk with subtle dark greenish gray (10Y 3/1) /light greenish gray (10Y 5/1) alternations. Drilling fracture is observed.</p>										

1259A-42R NO RECOVERY

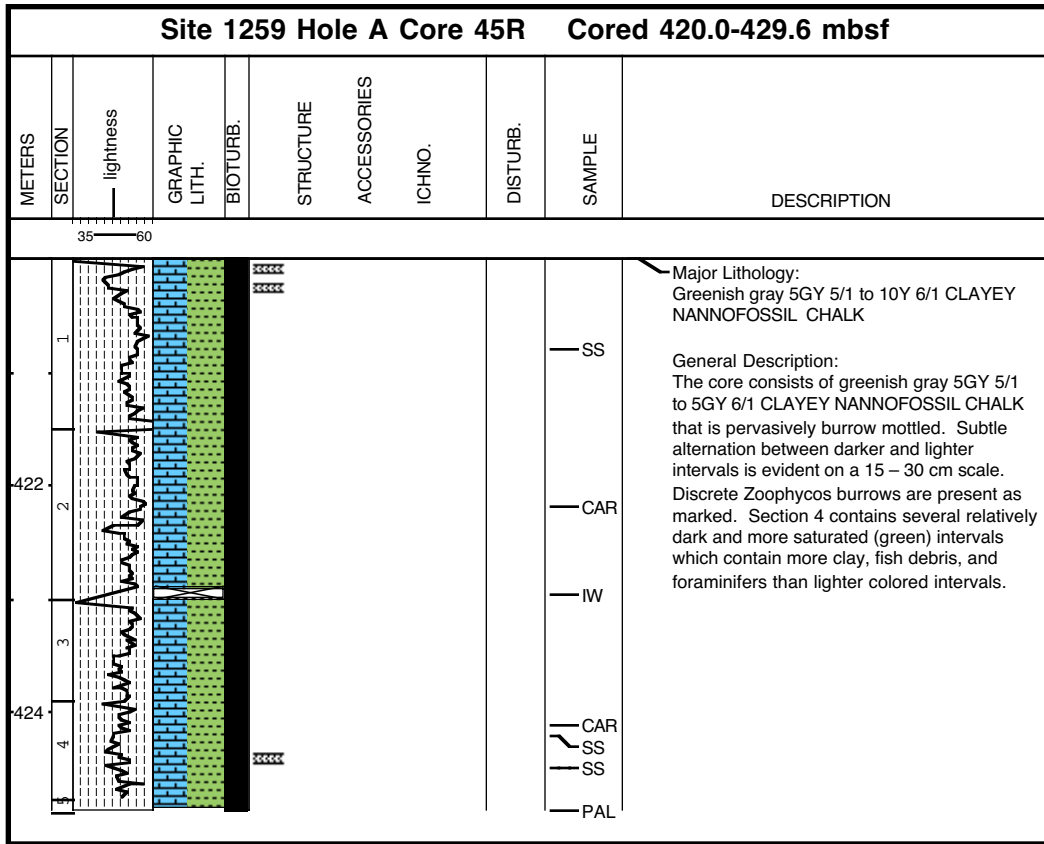
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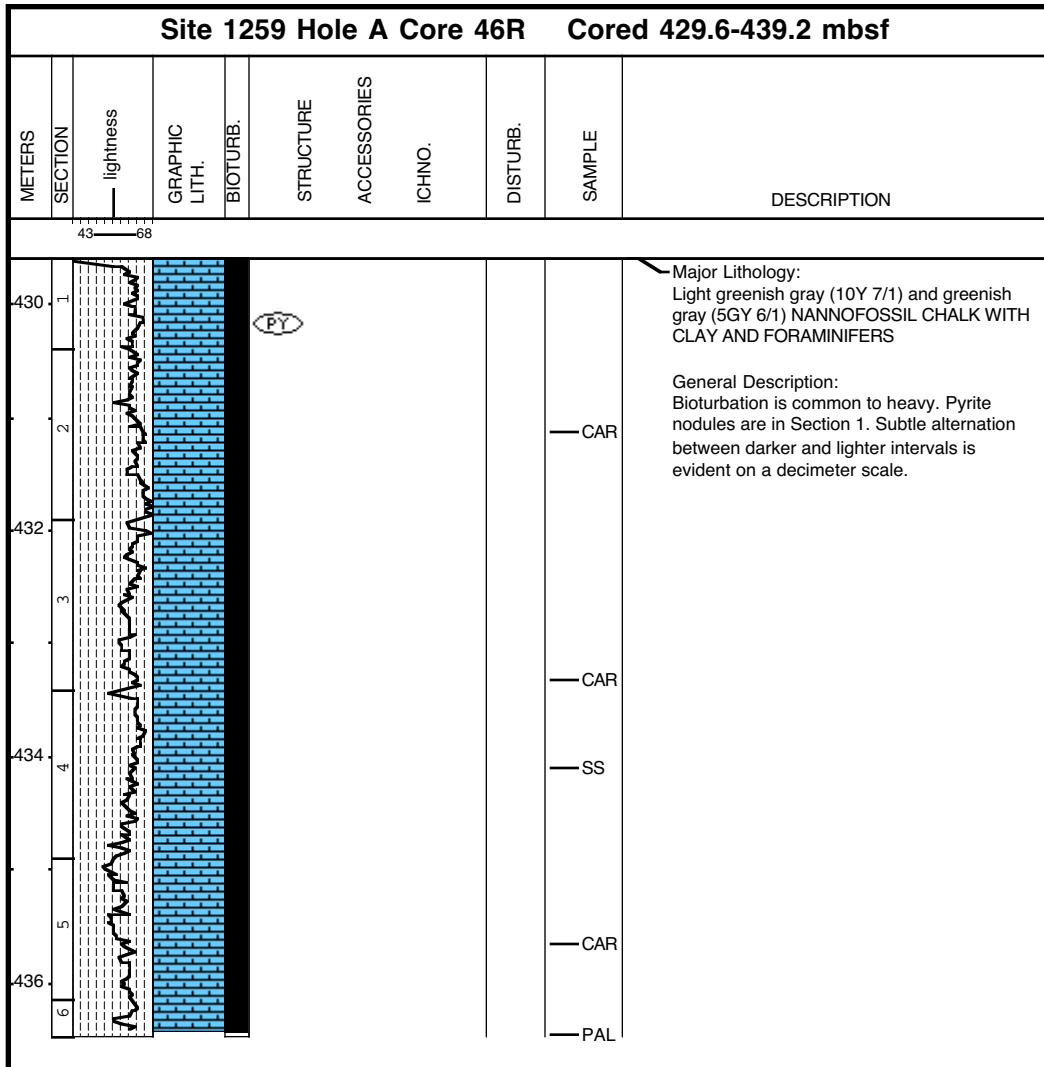
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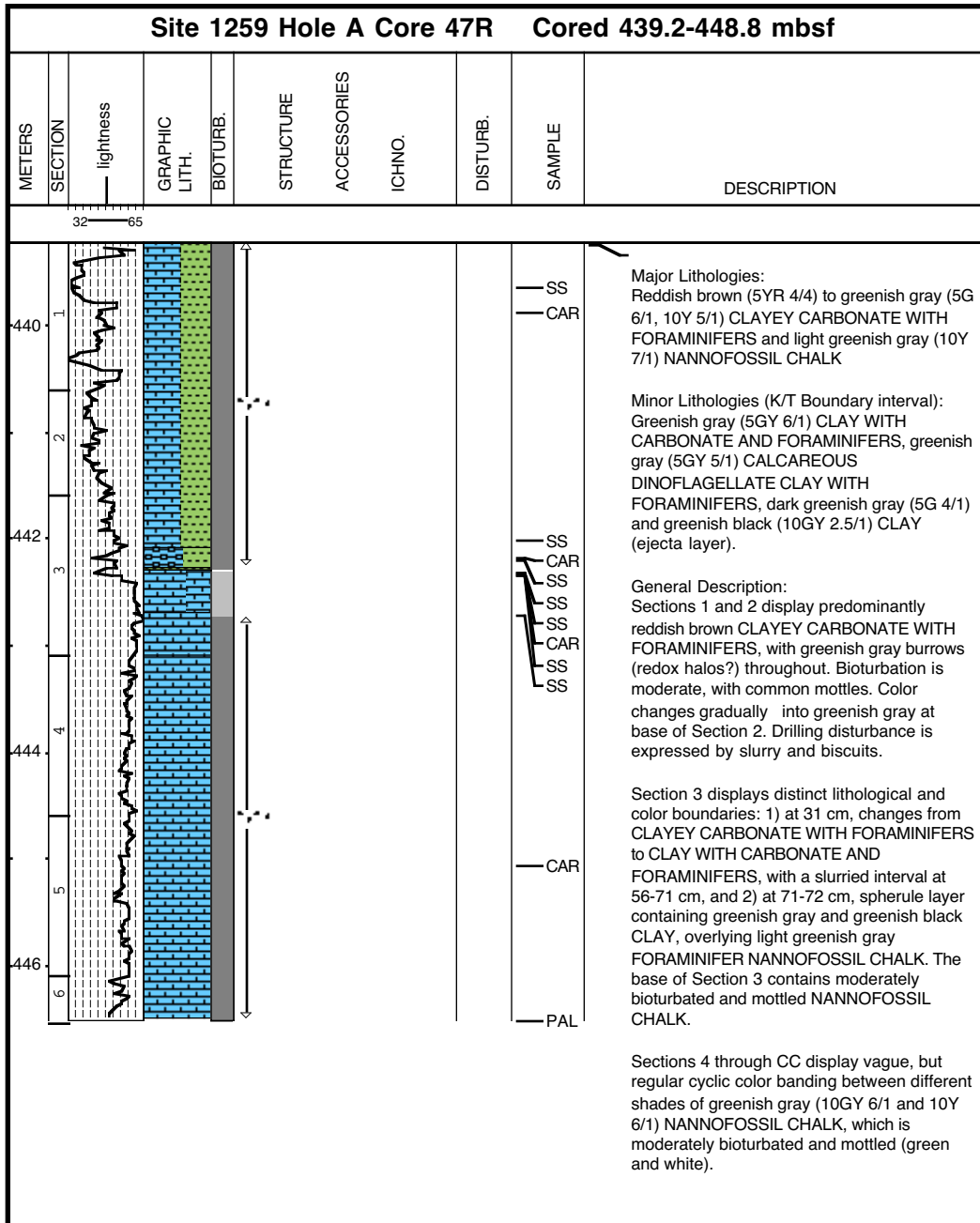
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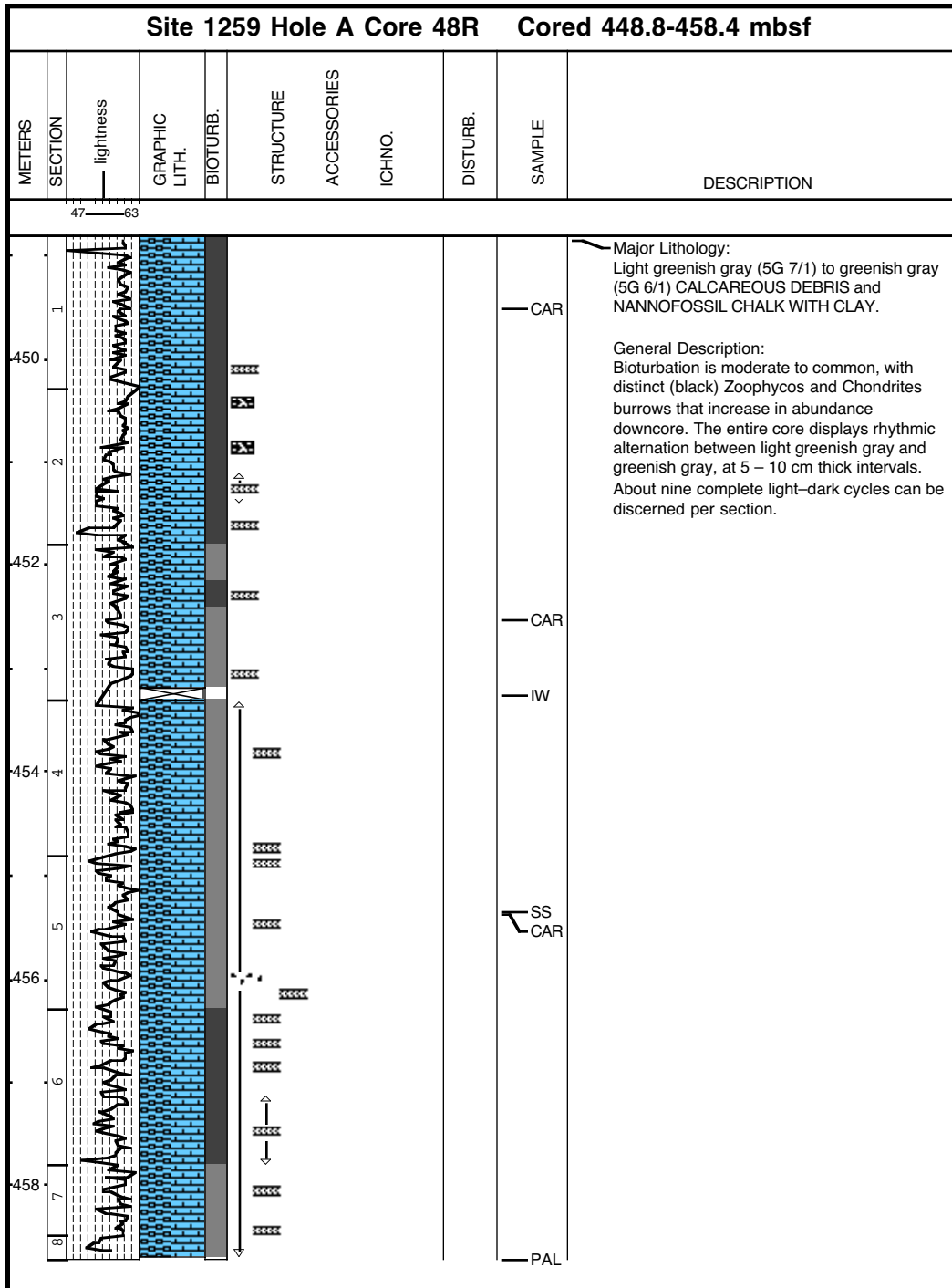
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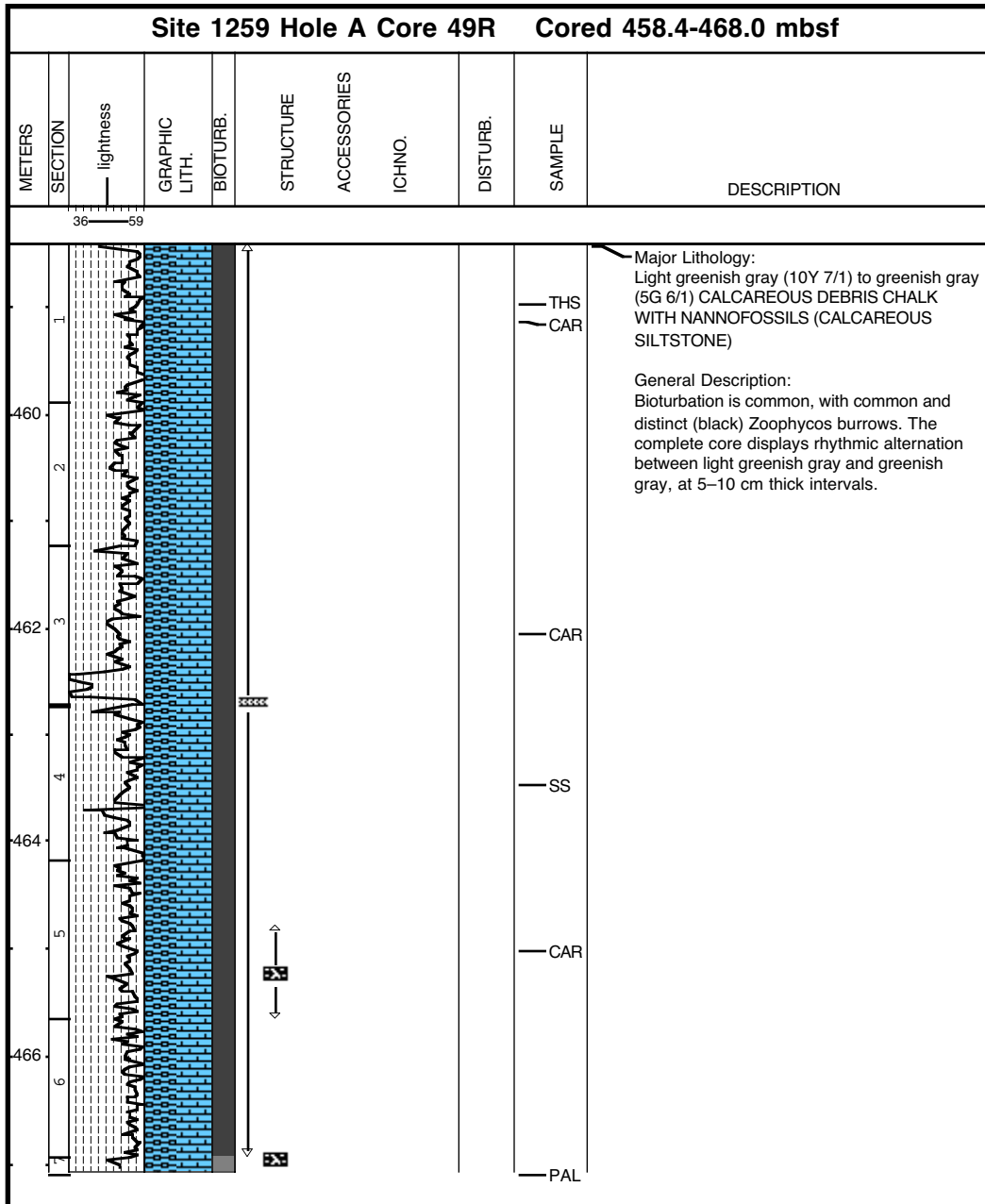
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Core Photo

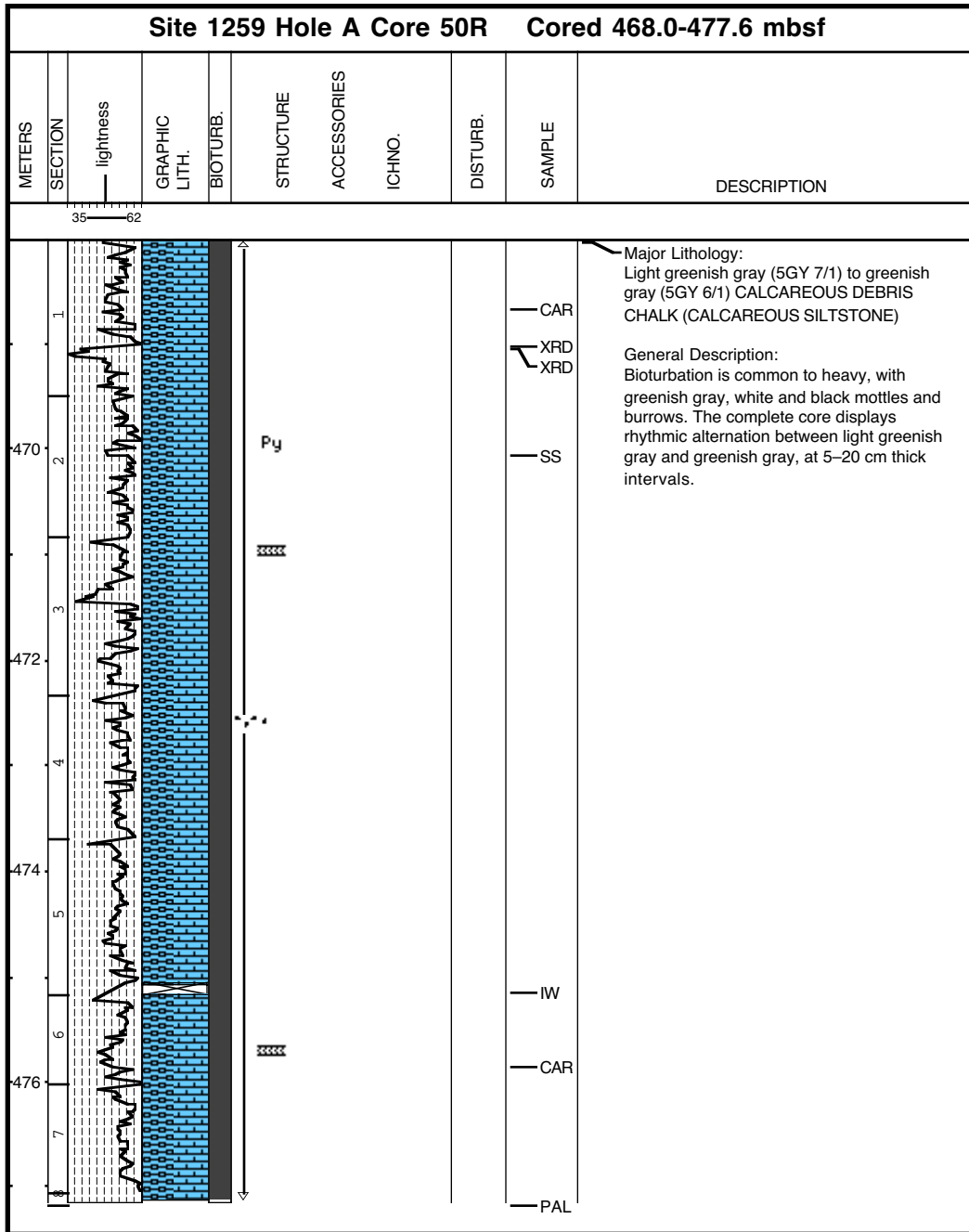


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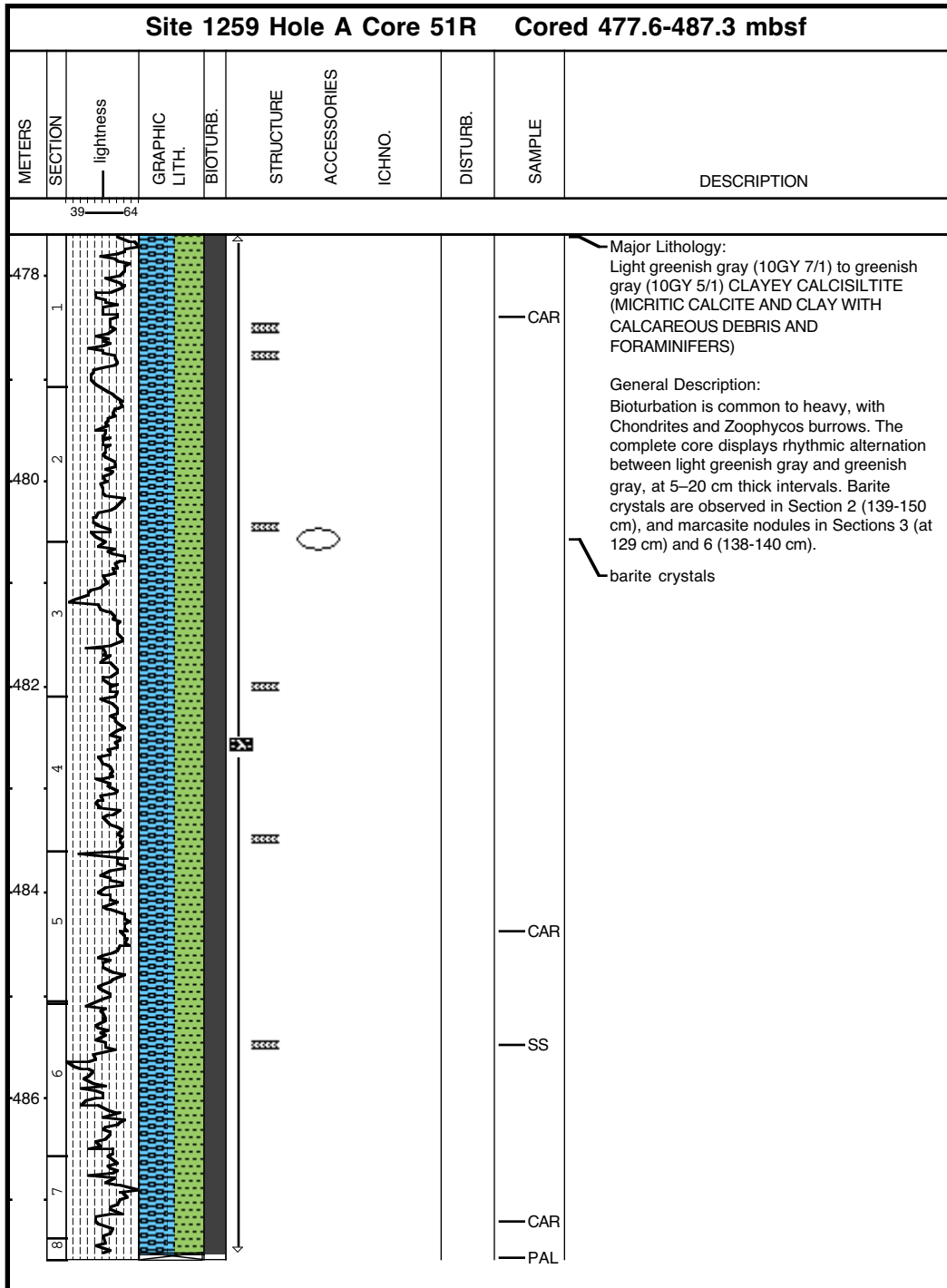




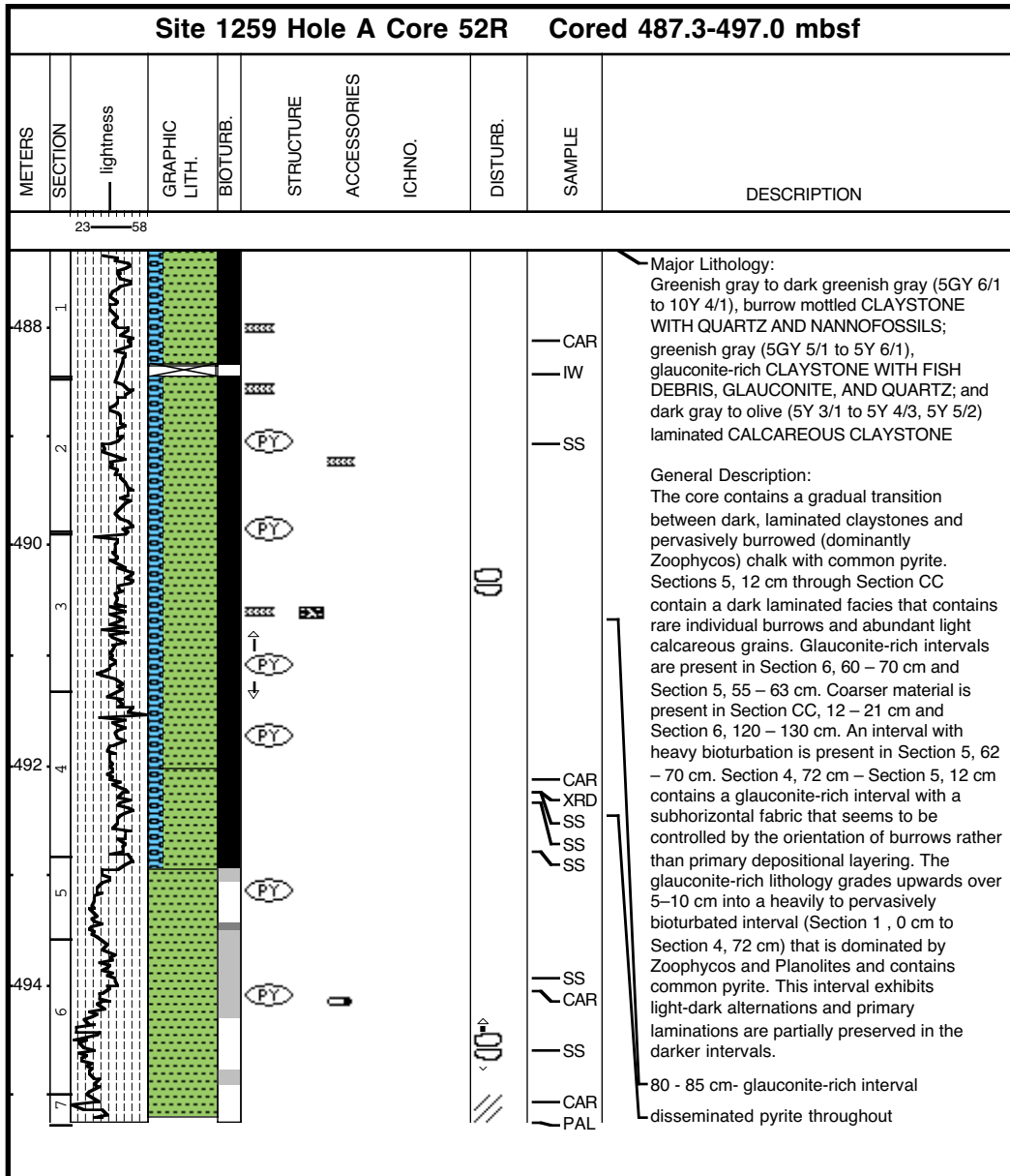
Core Photo



Core Photo



Core Photo



Core Photo

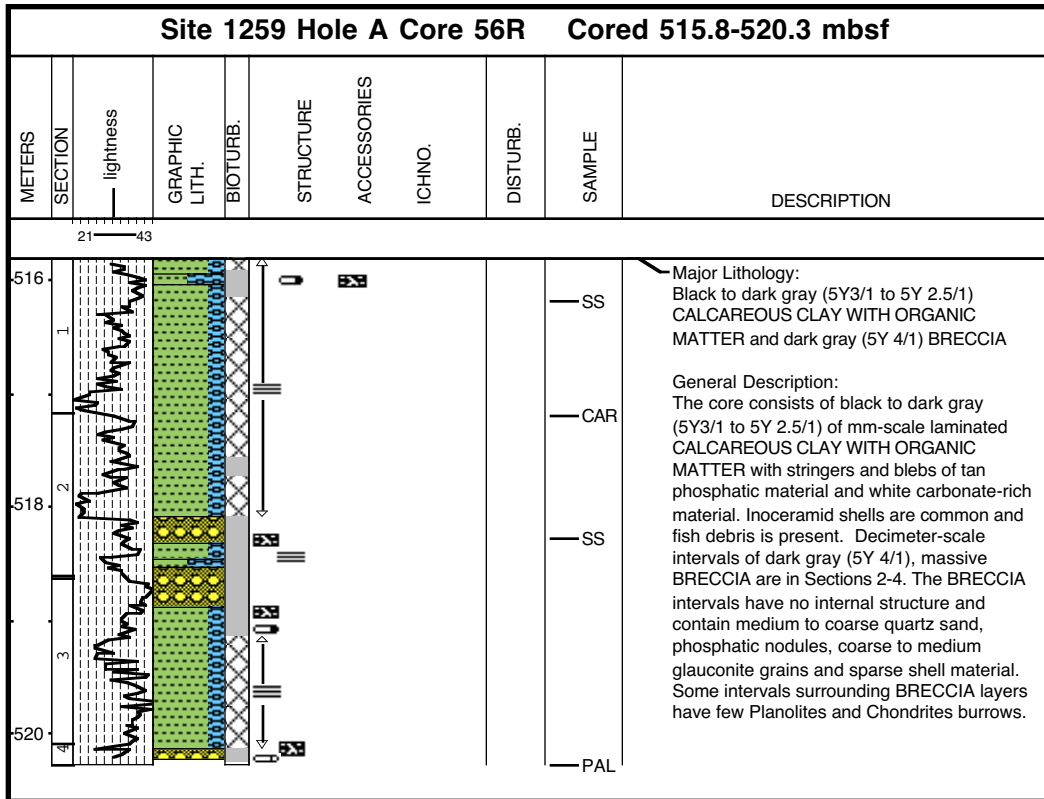
Site 1259 Hole A Core 53R Cored 497.0-506.6 mbsf										
METERS	SECTION	lightness	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	DESCRIPTION
20		44								
498	1									<p>Major Lithologies:                      Black to dark gray (5Y3/1 to 5Y 2.5/1) CALCAREOUS CLAY WITH ORGANIC MATTER, olive (5Y 4/2) LIMESTONE</p> <p>Minor Lithology:                      Black to dark gray (5Y3/1 to 5Y 2.5/1) CALCAREOUS CLAY WITH ORGANIC MATTER AND FISH REMAINS</p> <p>General Description:                      The core consists of Black to dark gray (5Y3/1 to 5Y 2.5/1) CALCAREOUS CLAY WITH ORGANIC MATTER, olive (5Y 4/2) LIMESTONE and minor amounts of Black to dark gray (5Y3/1 to 5Y 2.5/1) CALCAREOUS CLAY WITH ORGANIC MATTER AND FISH REMAINS. All lithologies are generally characterized by sub mm-scale laminations. Color variations are cyclic and often associated with clay to limestone transitions or apparent variations in carbonate content seen as an increase in carbonate rich laminae. Limestone-clay contacts are gradational over 1-2 cm. Section 1, 1-80 cm has ~10cm intervals of coarse breccia intervals and are interpreted to be the distal ends of debris flows. Microfaults are also seen throughout the core, but are most common in Section 1. Fish remains, inoceramid shell material and phosphatic nodules are found throughout the core.</p>
										SS
										CAR
500	2									SS
										CAR
										PAL
	3									
	4									



Core Photo

Site 1259 Hole A Core 55R Cored 510.6-515.8 mbsf										
METERS	SECTION	lightness	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHO.	DISTURB.	SAMPLE	DESCRIPTION
17		49								
512	1									<p>Major Lithology:                      Black to dark gray (5Y3/1 to 5Y 2.5/1)                      CALCAREOUS CLAY WITH ORGANIC MATTER</p> <p>Minor Lithology:                      Dark gray (5Y4/1) (dries tan) silicified                      CLAYSTONE</p> <p>General Description:                      The core consists of black to dark gray (5Y3/1 to 5Y 2.5/1), laminated CALCAREOUS CLAY WITH ORGANIC MATTER with stringers and blebs of tan phosphatic material and white carbonate-rich material. Inoceramid shells are common and fish debris is present. Silicified CLAYSTONE is present as logged. These intervals exhibit the same fabric as the dominant lithology, grade into the dominant lithology over 1-2 cm, but are more competent than dominant lithology and react weakly if at all with 10% HCl. All lithologies are characterized by sub-mm-scale laminations.</p>
514	2									
	3									
	4									

Core Photo

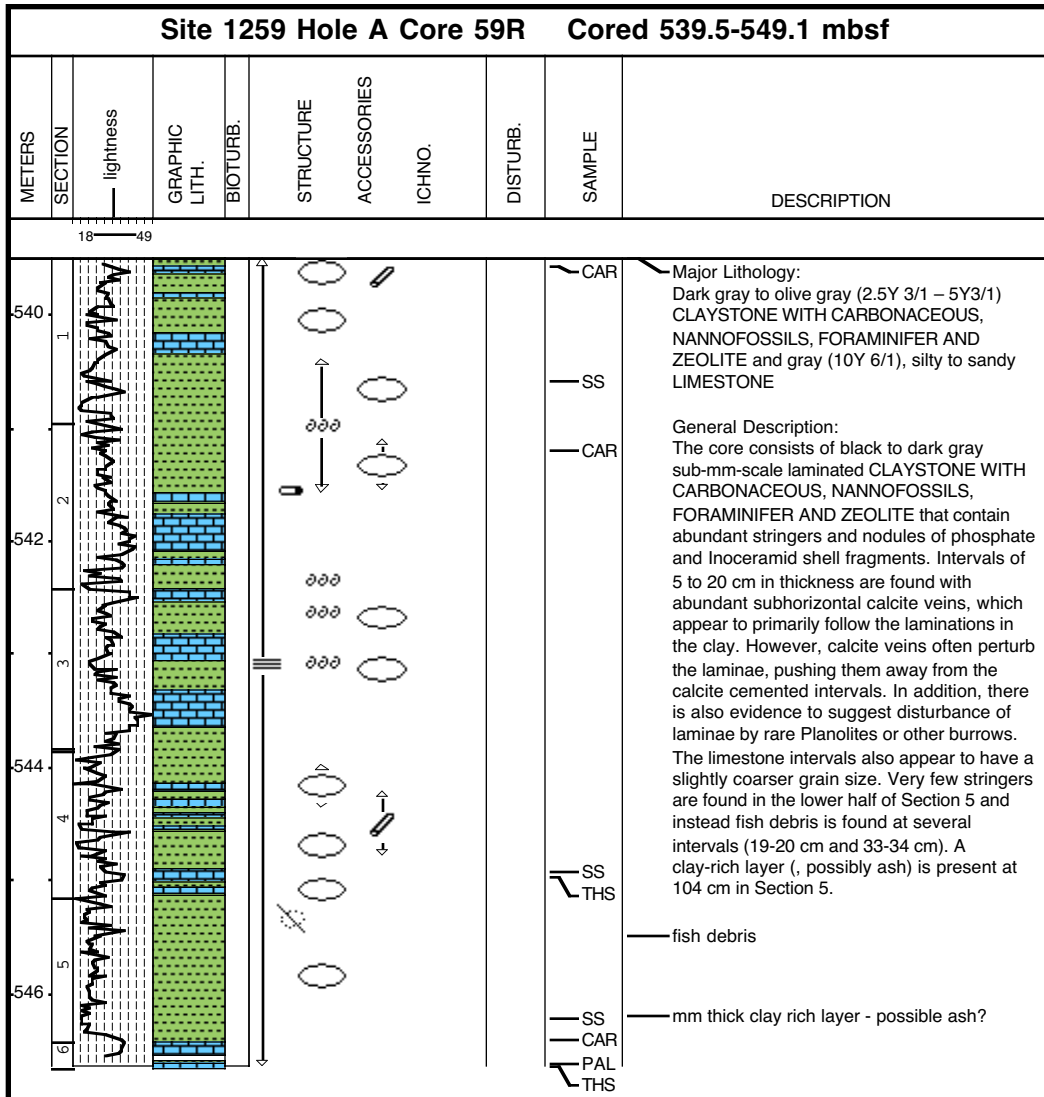




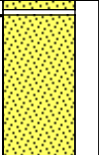





Core Photo



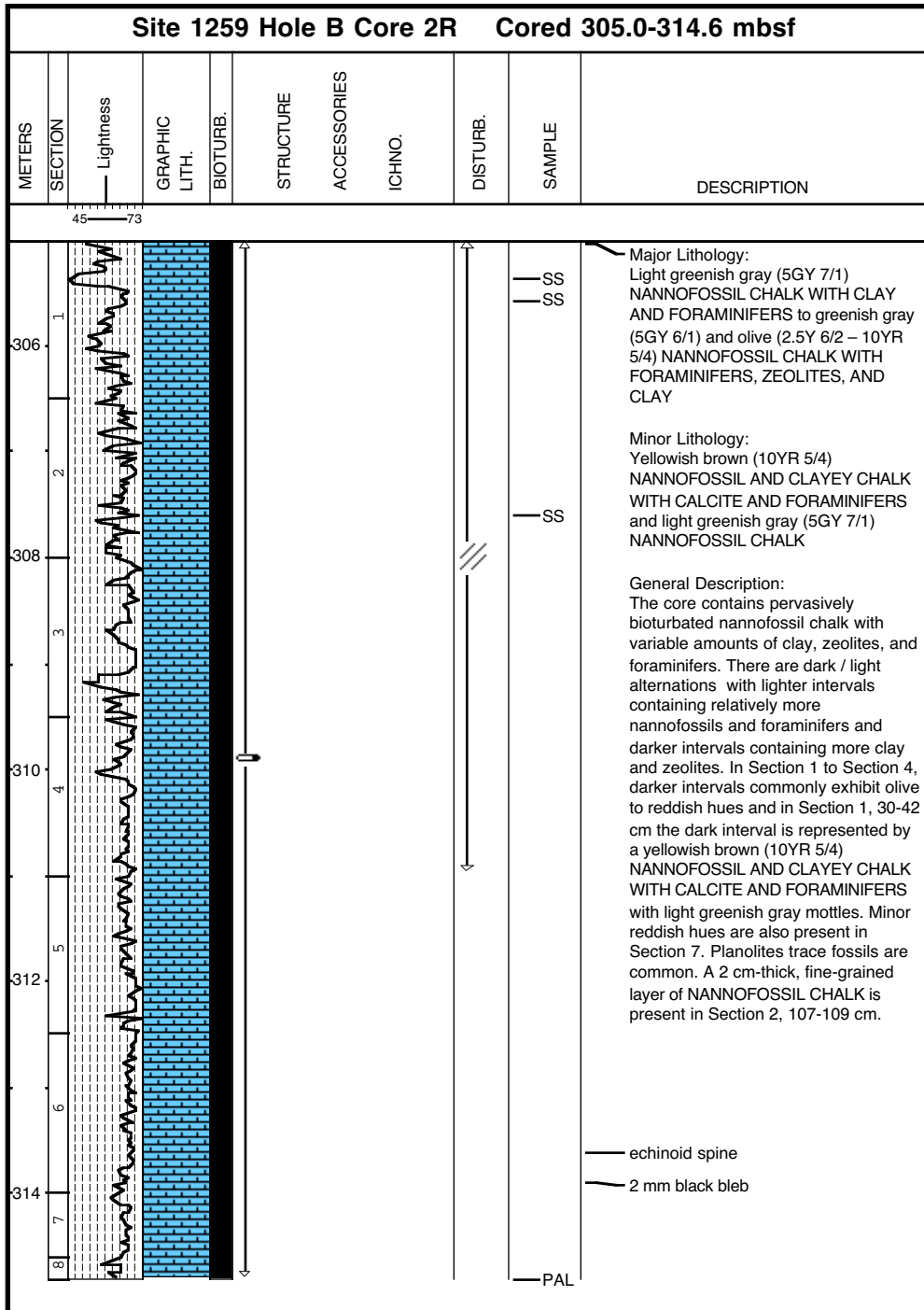
**Core Photo**

Site 1259 Hole A Core 60R Cored 549.1-558.8 mbsf										
METERS	SECTION	Lightness	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	DESCRIPTION
24										
51										
550									PAL THS	<p><b>Major Lithology:</b>                      Dark greenish gray to greenish gray and gray (5G 4/1 to 5GY 6/1 and 5YR 5/1) fine to medium grained, quartz SANDSTONE</p> <p><b>General Description:</b>                      The core contains a silica cemented, well sorted, quartz arenite with minor amount amounts of glauconite and pyrite. Recovered material is broken into pieces several centimeters in thickness, but among these pieces there is a general increase in grain size downcore. The upper 50 cm of the core is mottled and pyrite is concentrated within the darker mottles. The lower meter of core has a mm scale layering and probable cross beds are present in a piece at 48 cm. Gray colors are most common in the lower 30 cm of the core.</p> <p>cm-scale trough cross bedding</p>

Core Photo

Site 1259 Hole B Core 1R Cored 0.0-9.6 mbsf										
METERS	SECTION	Lightness	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	DESCRIPTION
51	1									
73	2									
										<p>Major Lithology:                      Pale yellow (5Y 8/3) FORAMINIFER AND NANNOFOSSIL OOZE WITH CLAY</p> <p>Minor Lithology:                      Light yellowish brown (10YR 6/4) NANNOFOSSIL AND CLAY OOZE WITH QUARTZ, FORAMINIFERS AND CALCAREOUS DEBRIS and yellow (10YR 7/8) CLAY AND NANNOFOSSIL OOZE WITH FORAMINIFERS</p> <p>General Description:                      This short mud line core consists of sandy feeling layer of NANNOFOSSIL AND CLAY OOZE WITH QUARTZ, FORAMINIFERS and CALCAREOUS DEBRIS for the top 12 cm, overlying a bright yellow CLAY NANNOFOSSIL OOZE WITH FORAMINIFERS, which changes to a pale yellow FORAMINIFER AND NANNOFOSSIL OOZE WITH CLAY. No sedimentary structures are visible due to the oozy nature of the lithology. There are occasional orange blebs and black sulfides.</p>

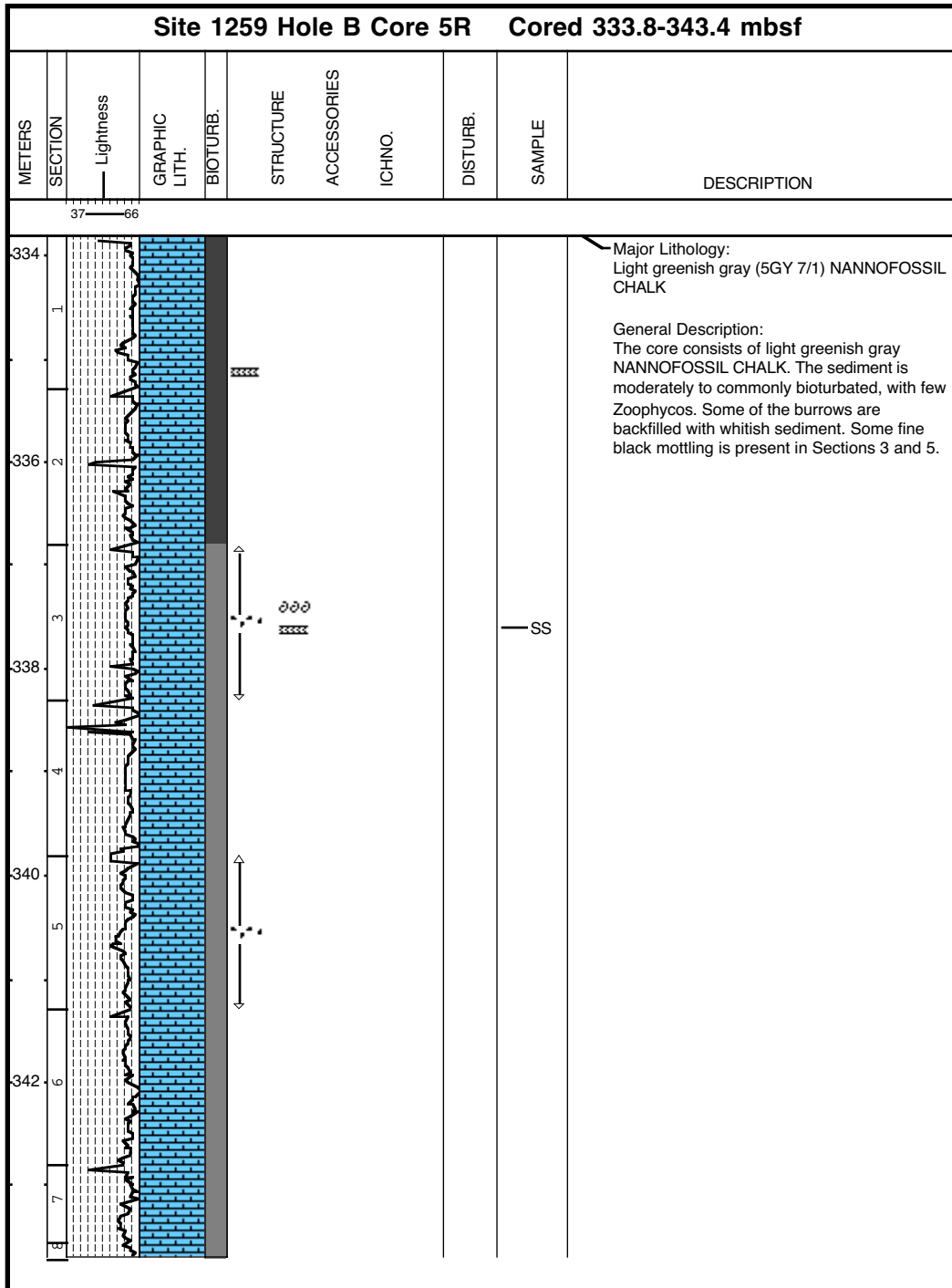
Core Photo



1259B-3R NO RECOVERY



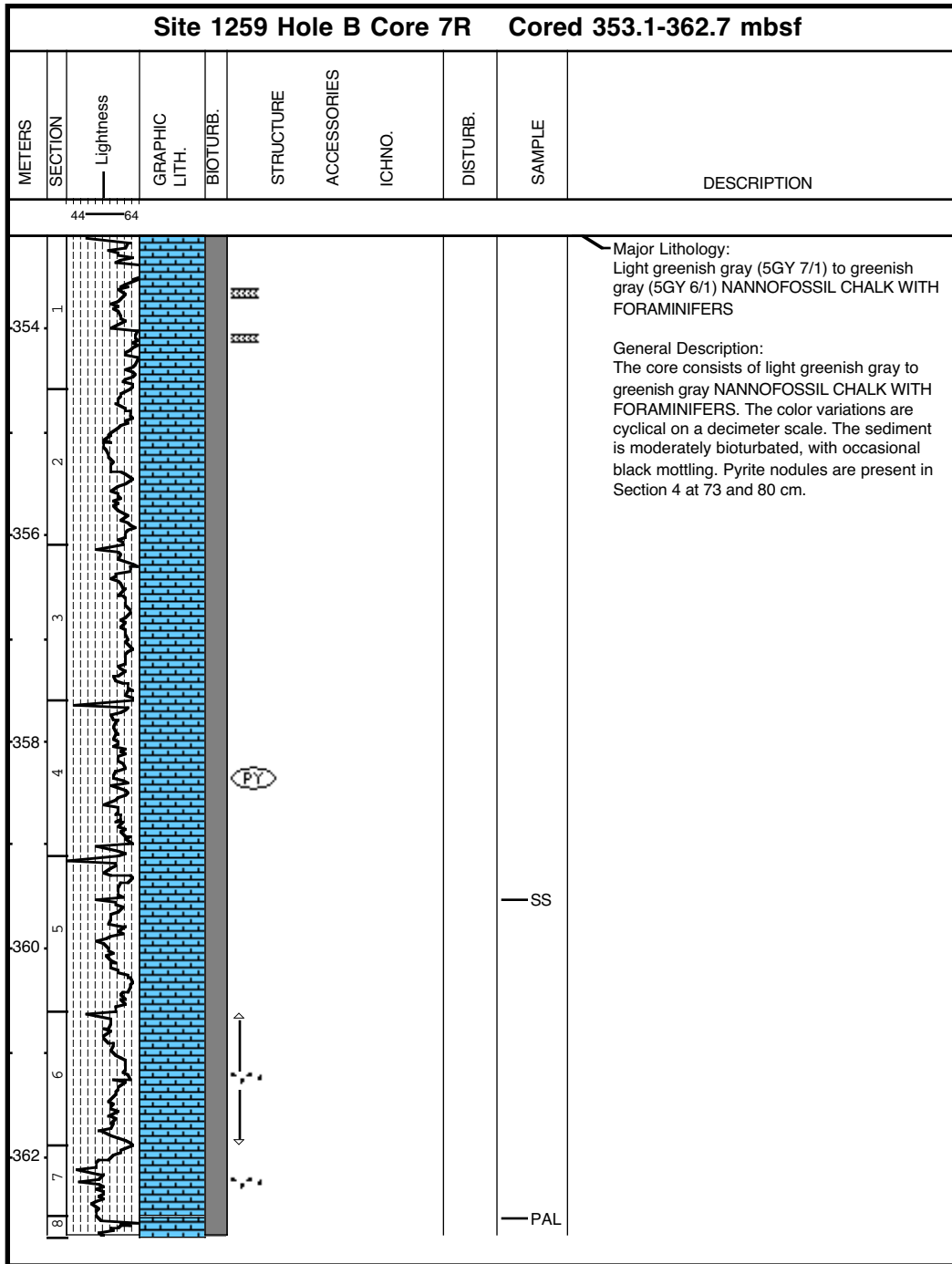
Core Photo



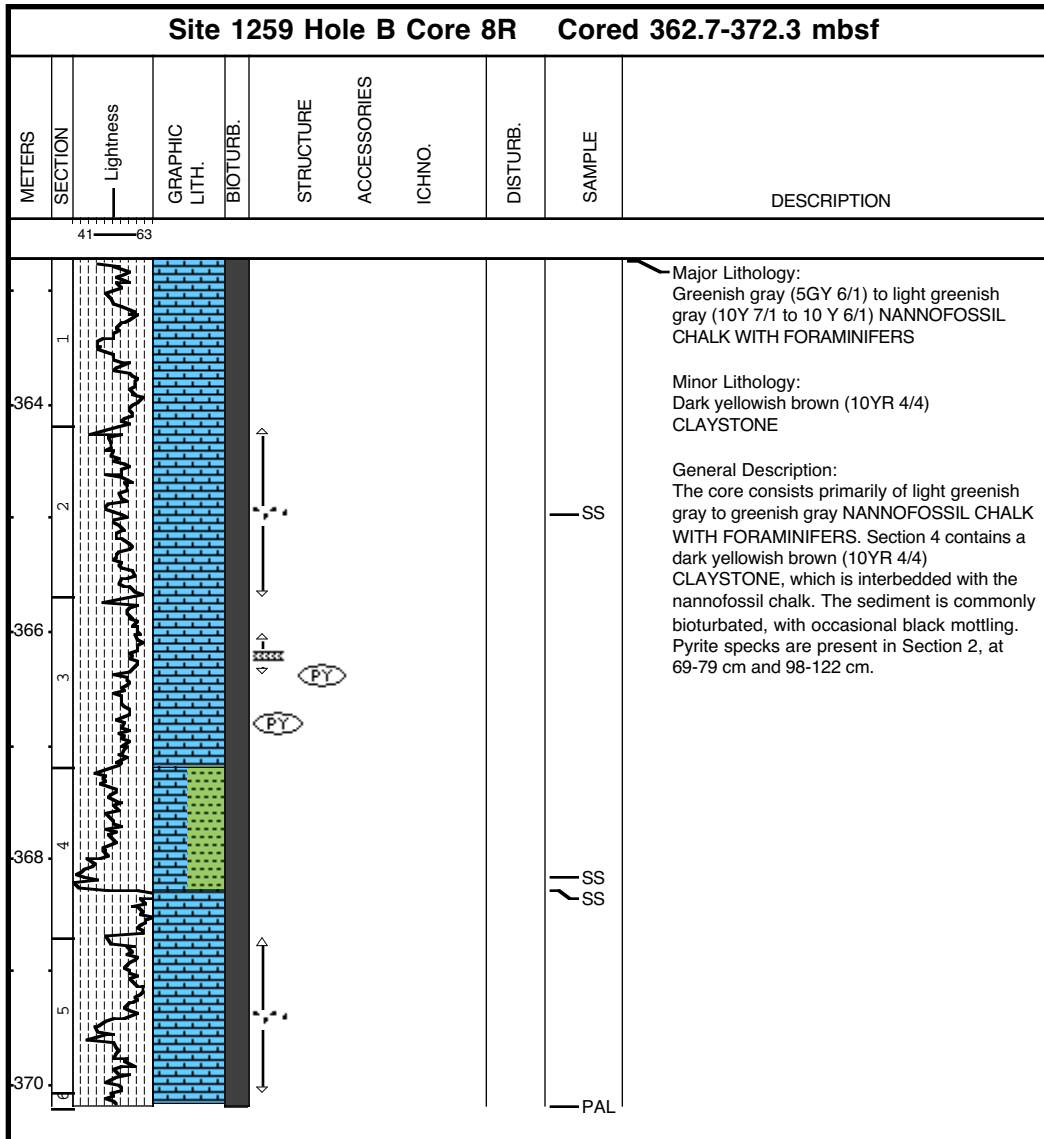





Core Photo



Core Photo



**Core Photo**

Site 1259 Hole B Core 9R Cored 372.3-381.9 mbsf										
METERS	SECTION	lightness	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	DESCRIPTION
		55 61							PAL	<p>Major Lithology:  Greenish gray (5GY 6/1) NANNOFOSSIL CHALK WITH FORAMINIFERS</p> <p>General Description:  The core consists of greenish gray NANNOFOSSIL CHALK WITH FORAMINIFERS. The sediment is moderately bioturbated.</p>

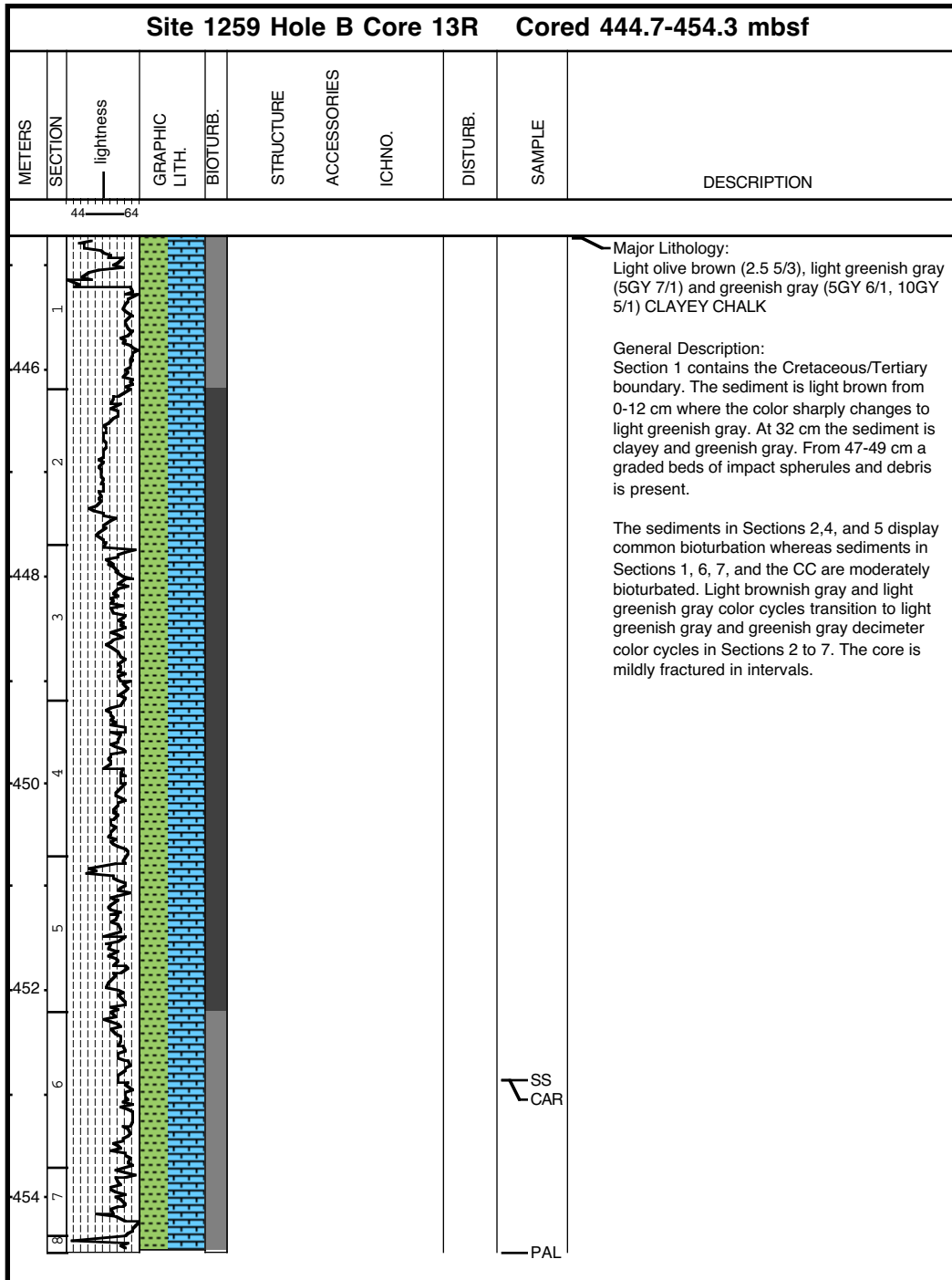
**Core Photo**

Site 1259 Hole B Core 10R    Cored 420.5-430.1 mbsf										
METERS	SECTION	lightness	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHO.	DISTURB.	SAMPLE	DESCRIPTION
	43	64								
422	1									<p>Major Lithology:            Greenish gray (10Y 5/1), light greenish gray (10Y 7/1) and light olive gray (5Y 6/2)            NANNOFOSSIL CHALK WITH CLAY</p> <p>General Description:            Bioturbation is common and increases to abundant downcore. Distinct black burrows (Zoophycos) are present, as well as black mottles. A cyclic color pattern emerges in Section 5 where light greenish gray and light olive gray alternate at a decimeter scale. The light olive gray intervals contain light greenish gray burrows. The core is entirely biscuited.</p>
424	2								SS	
	3									
426	4									
428	5									
	6									
	7								PAL	

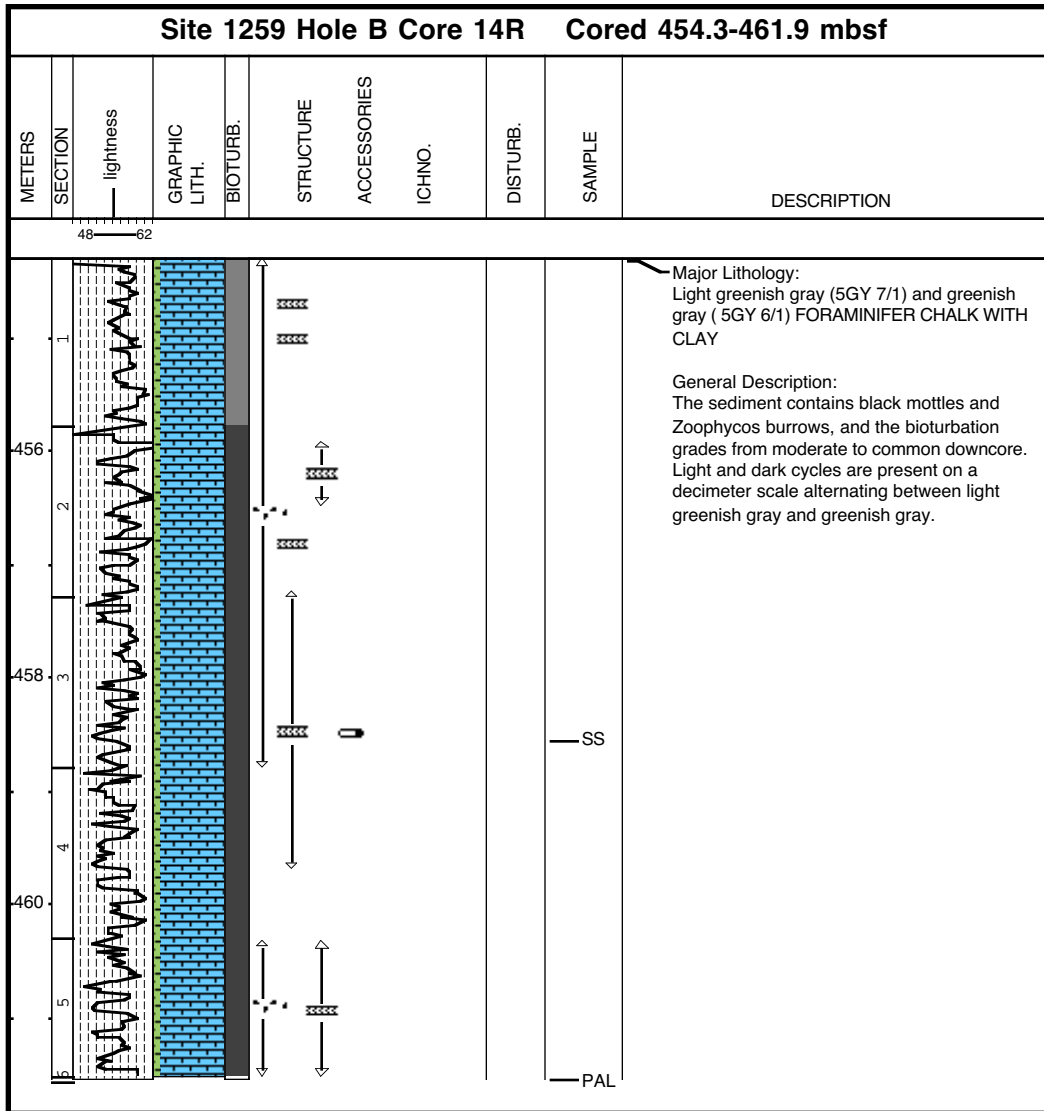




Core Photo

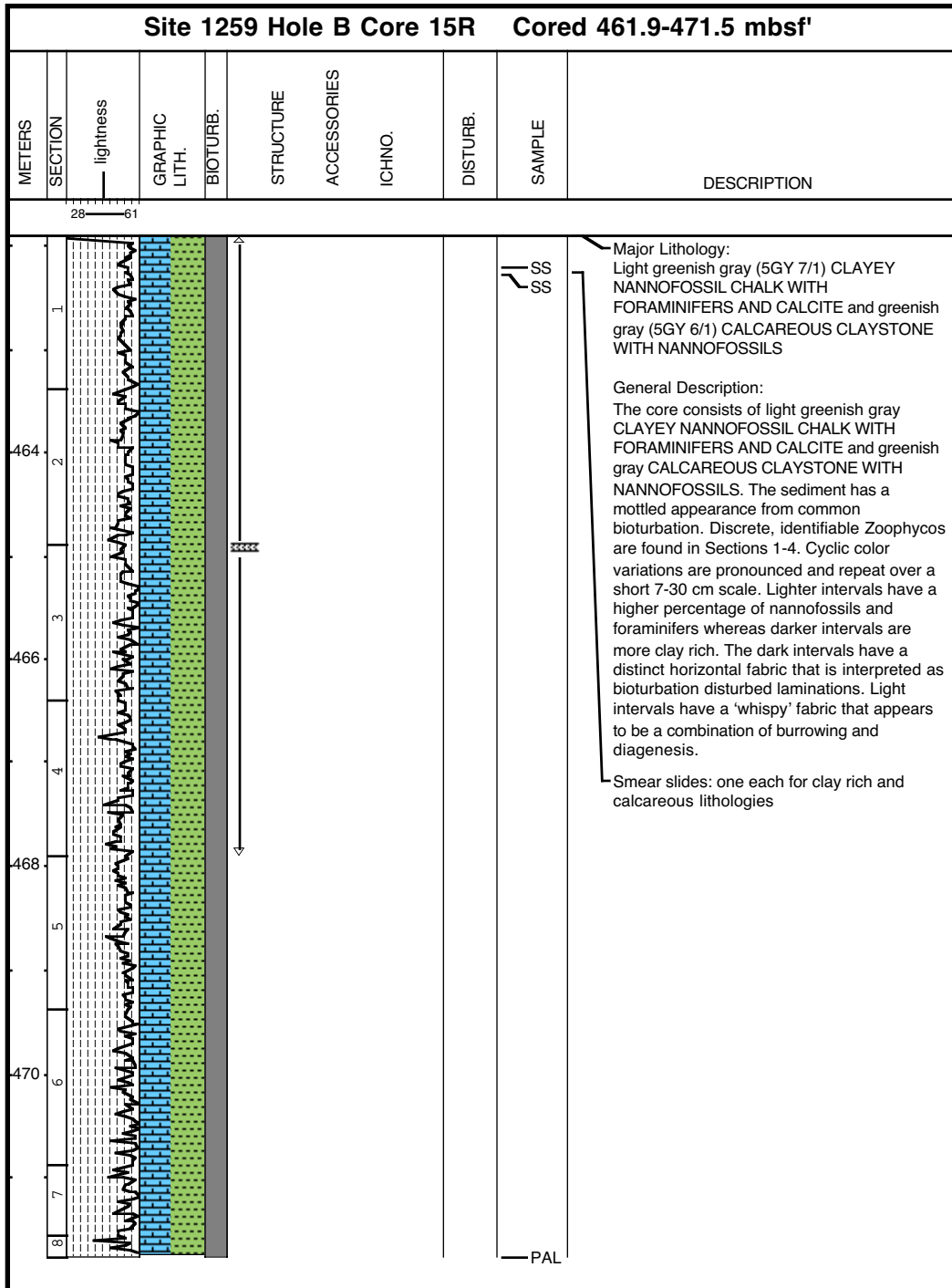


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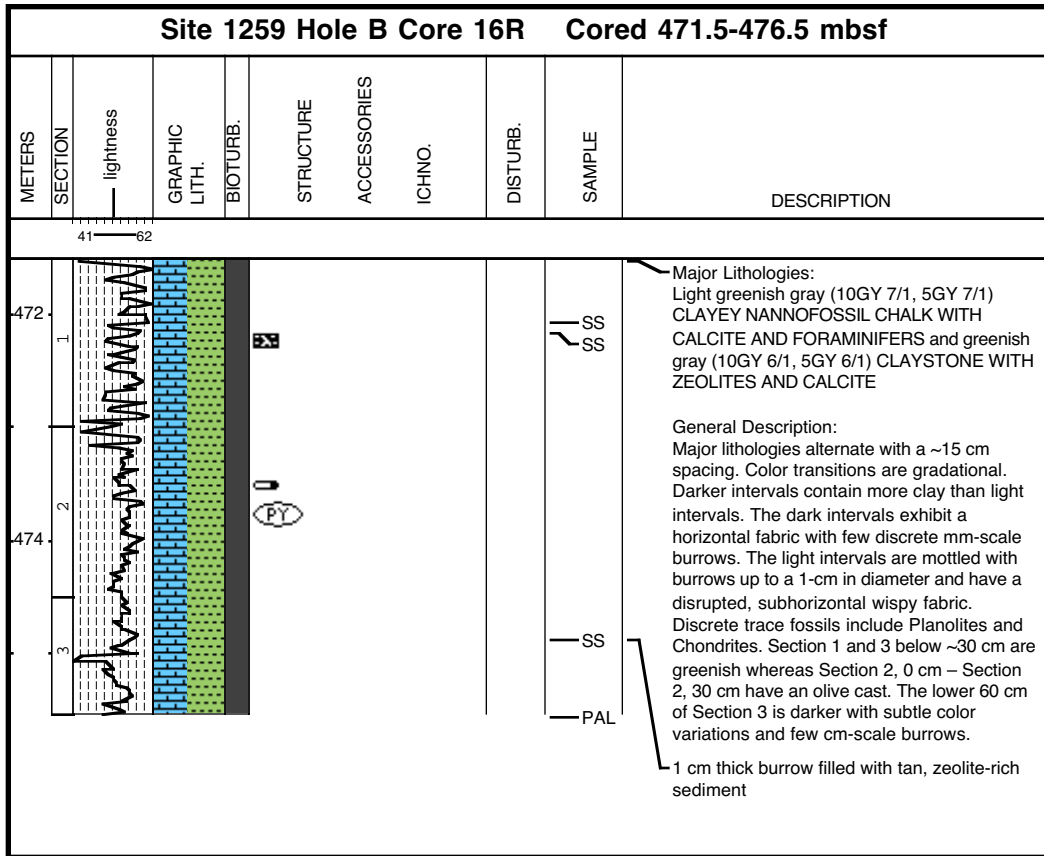




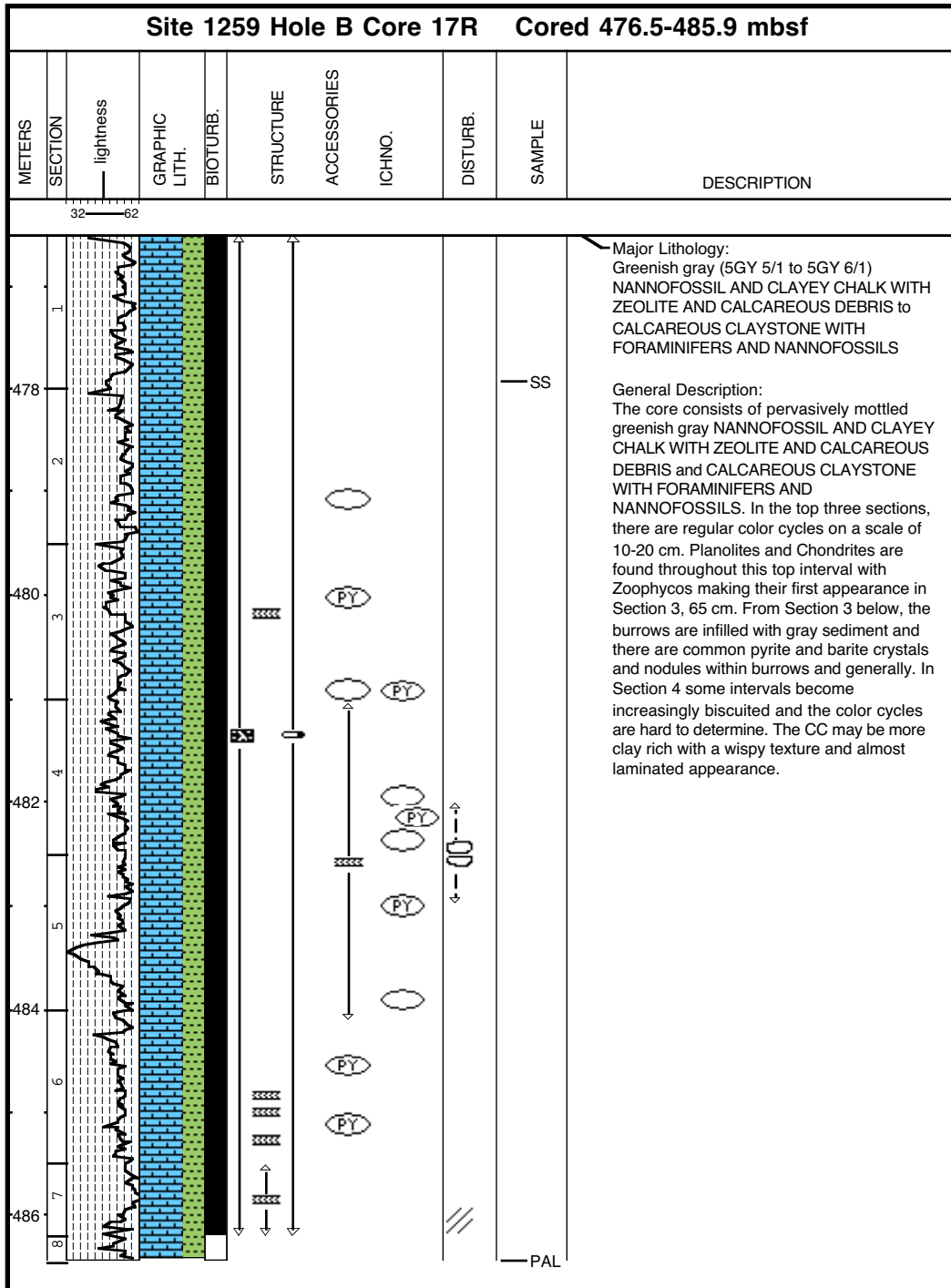
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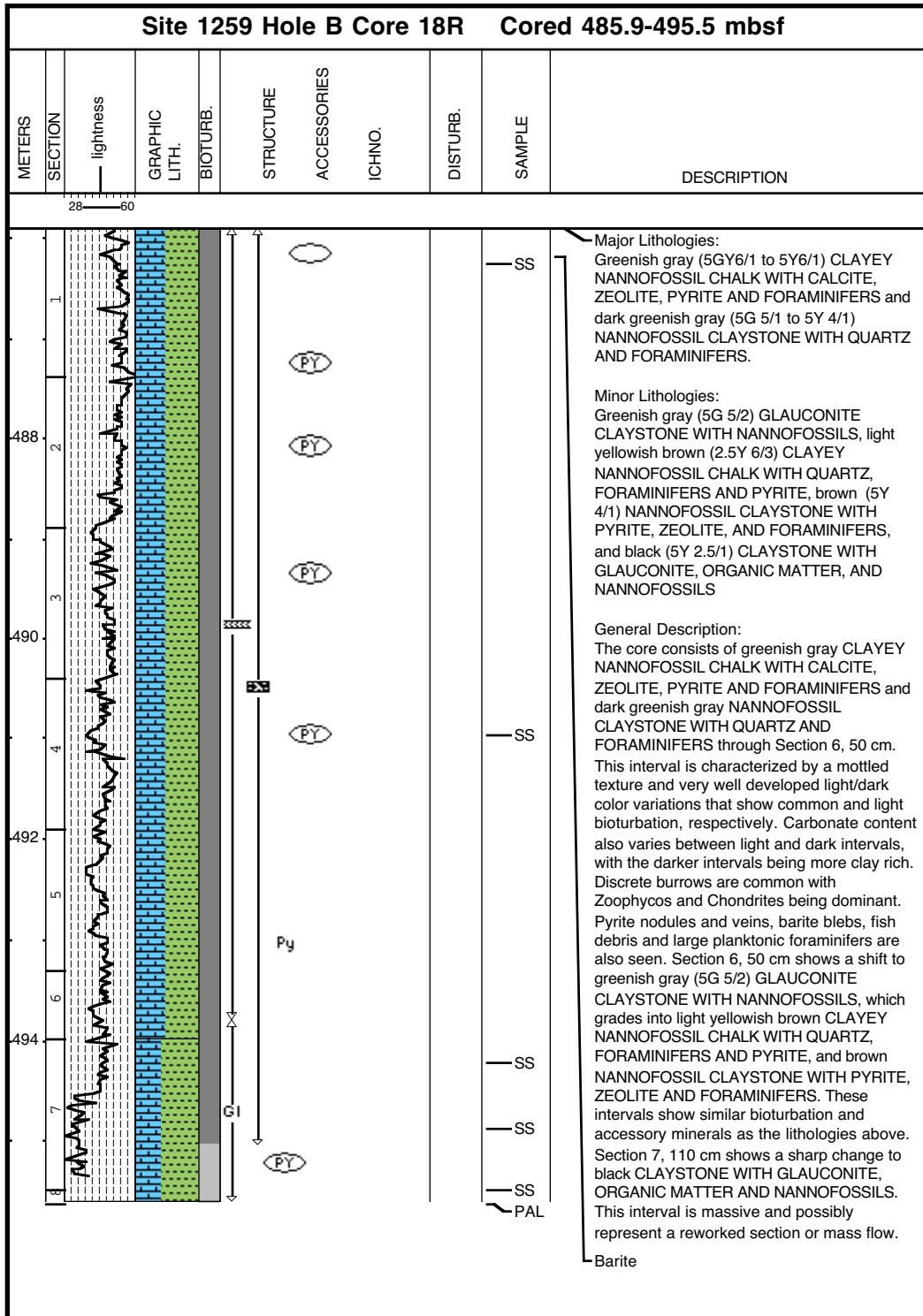
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Core Photo



Core Photo





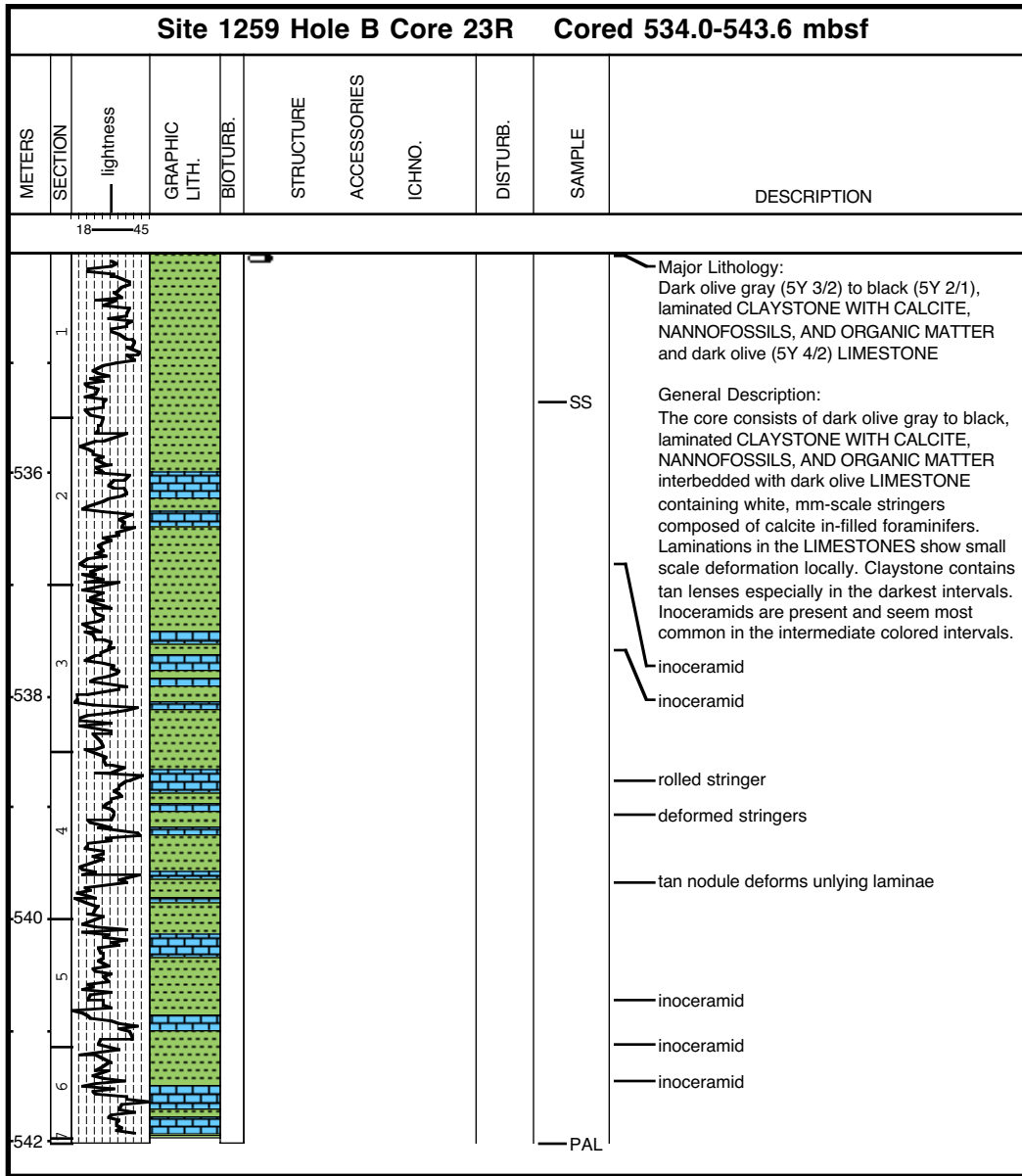




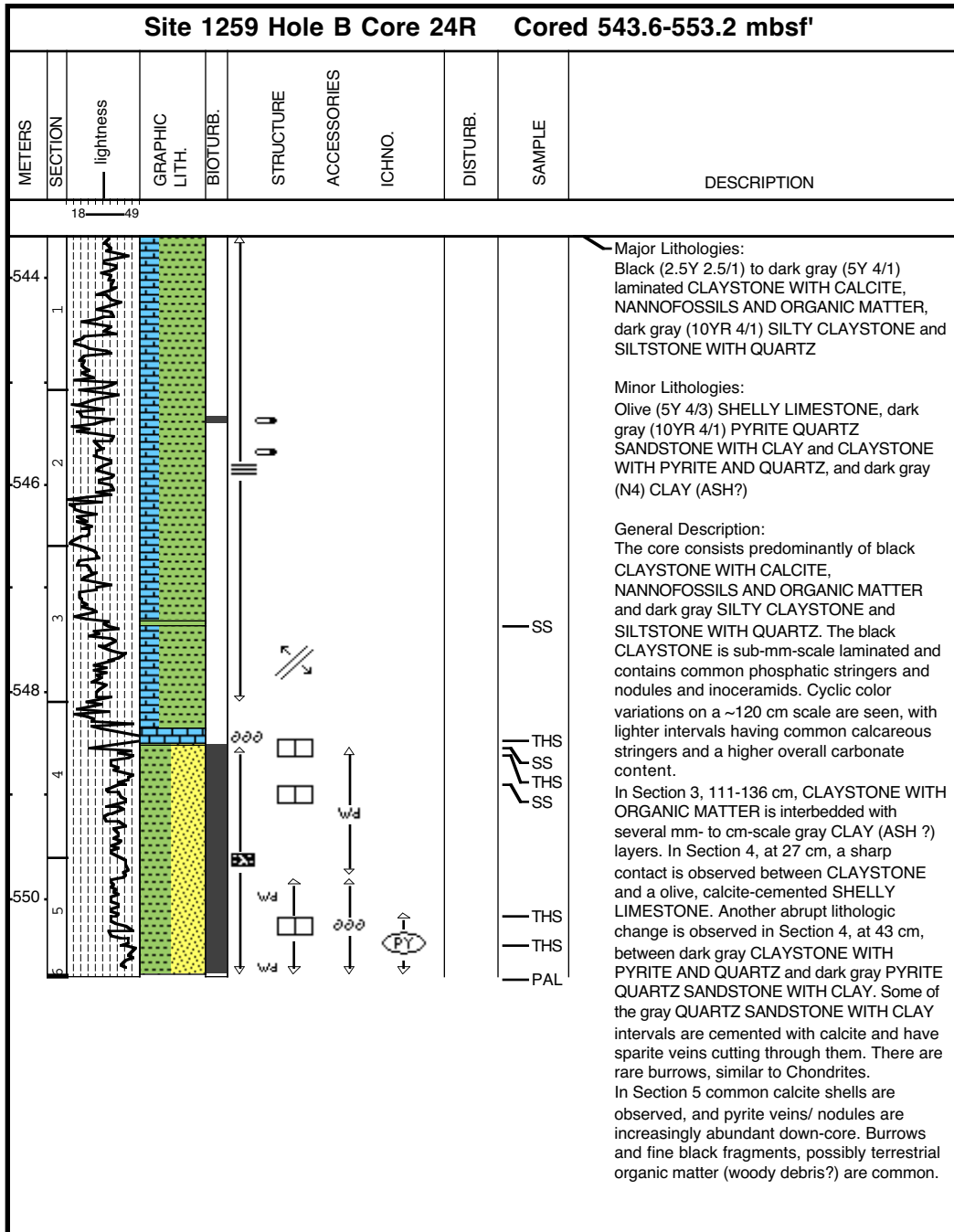




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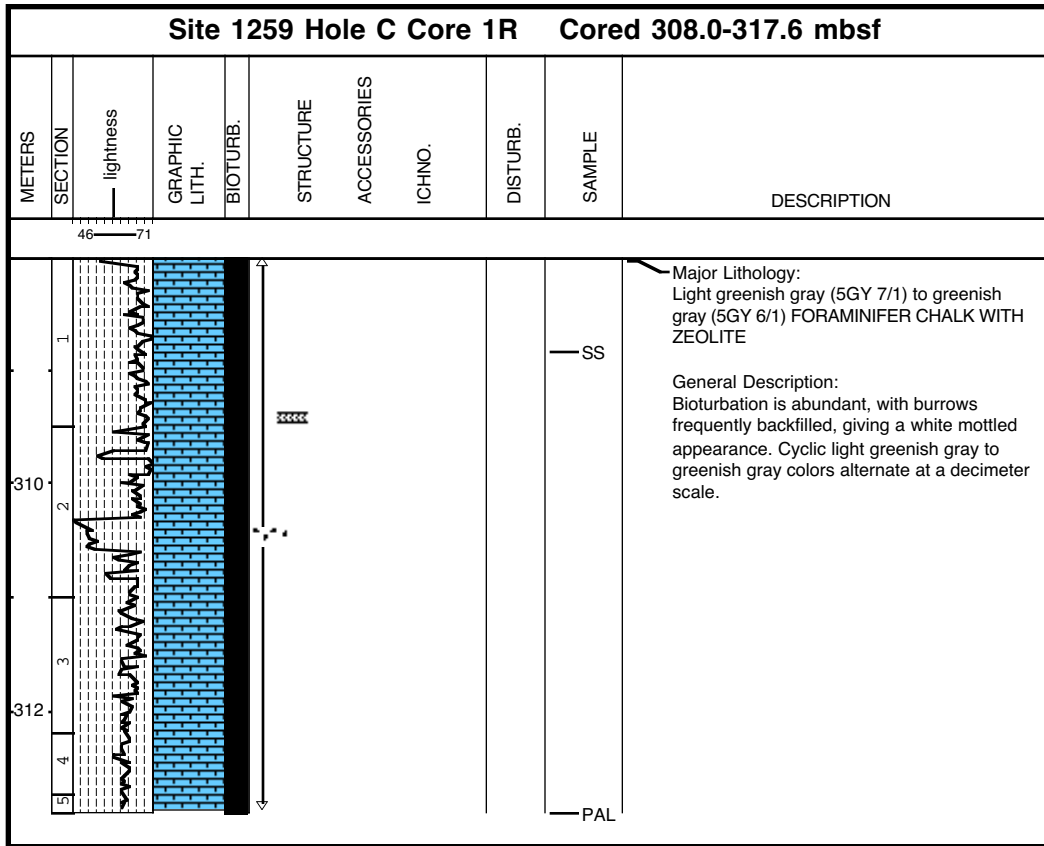


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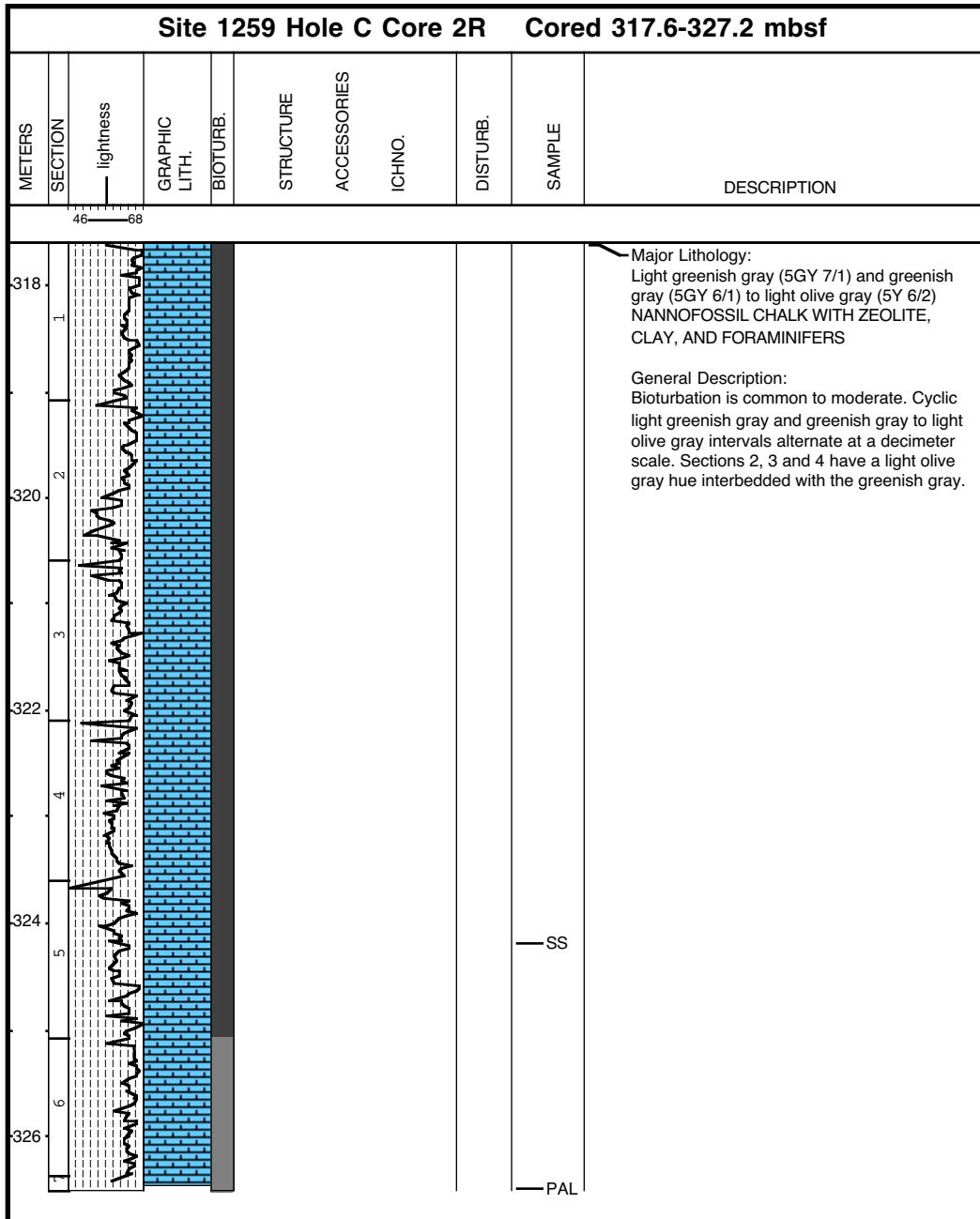




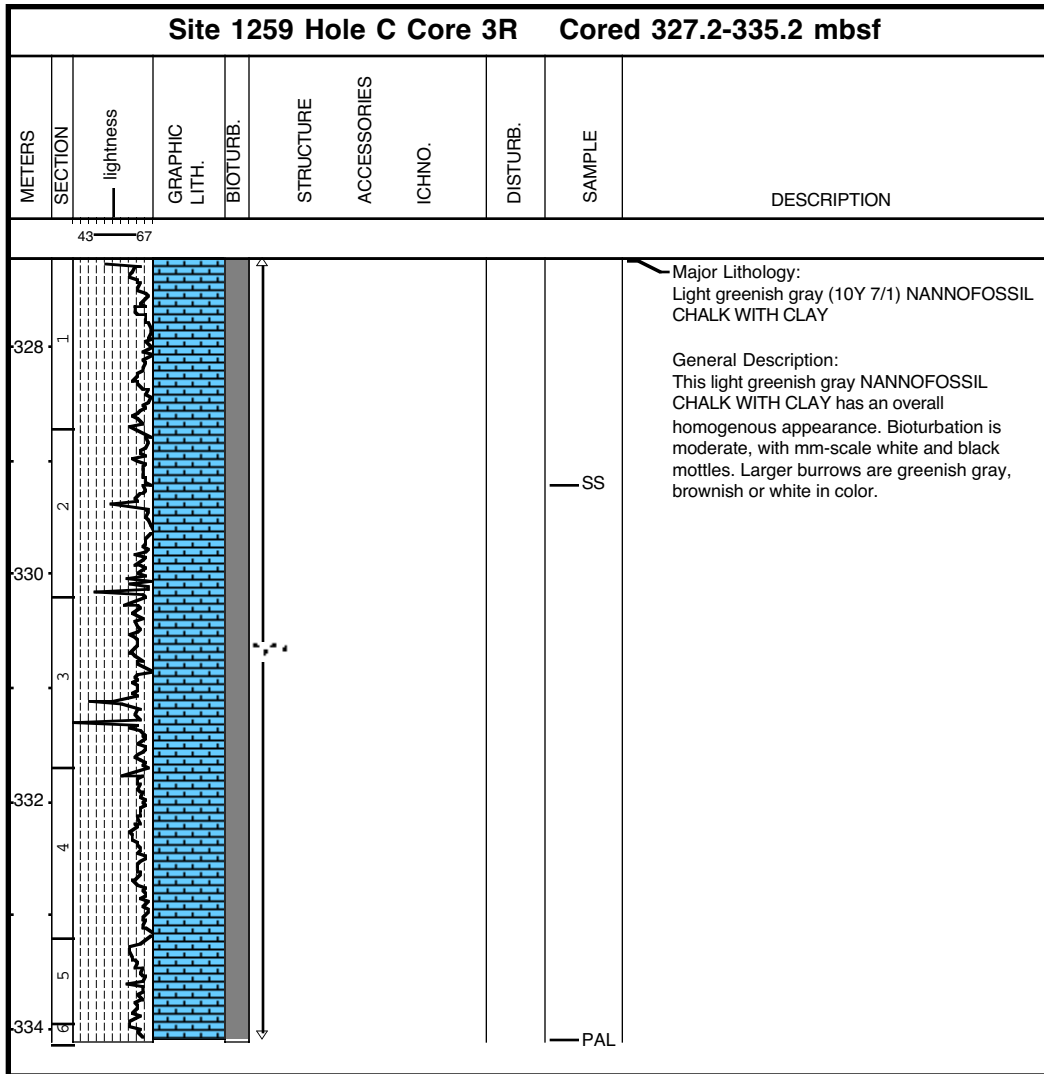
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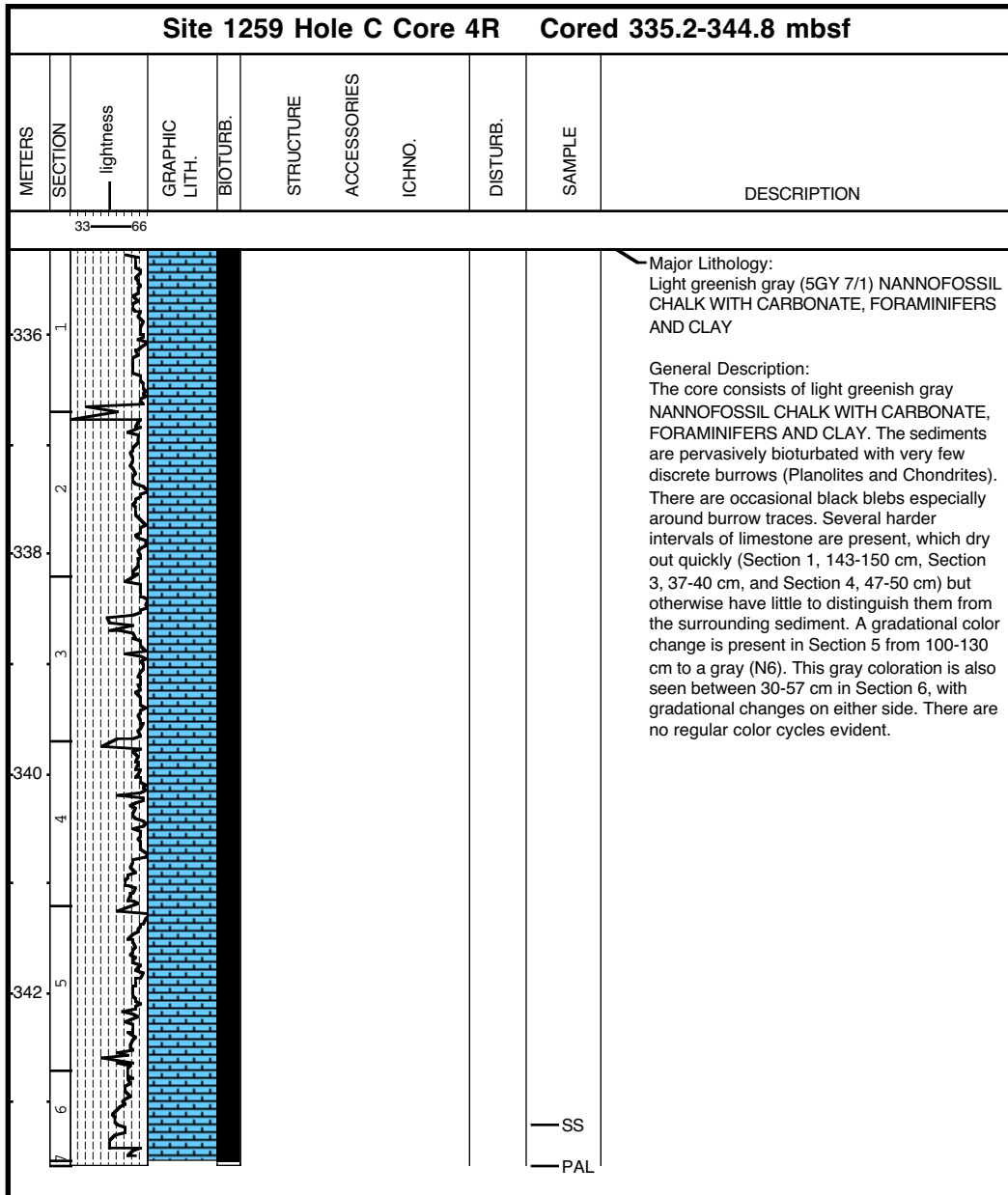
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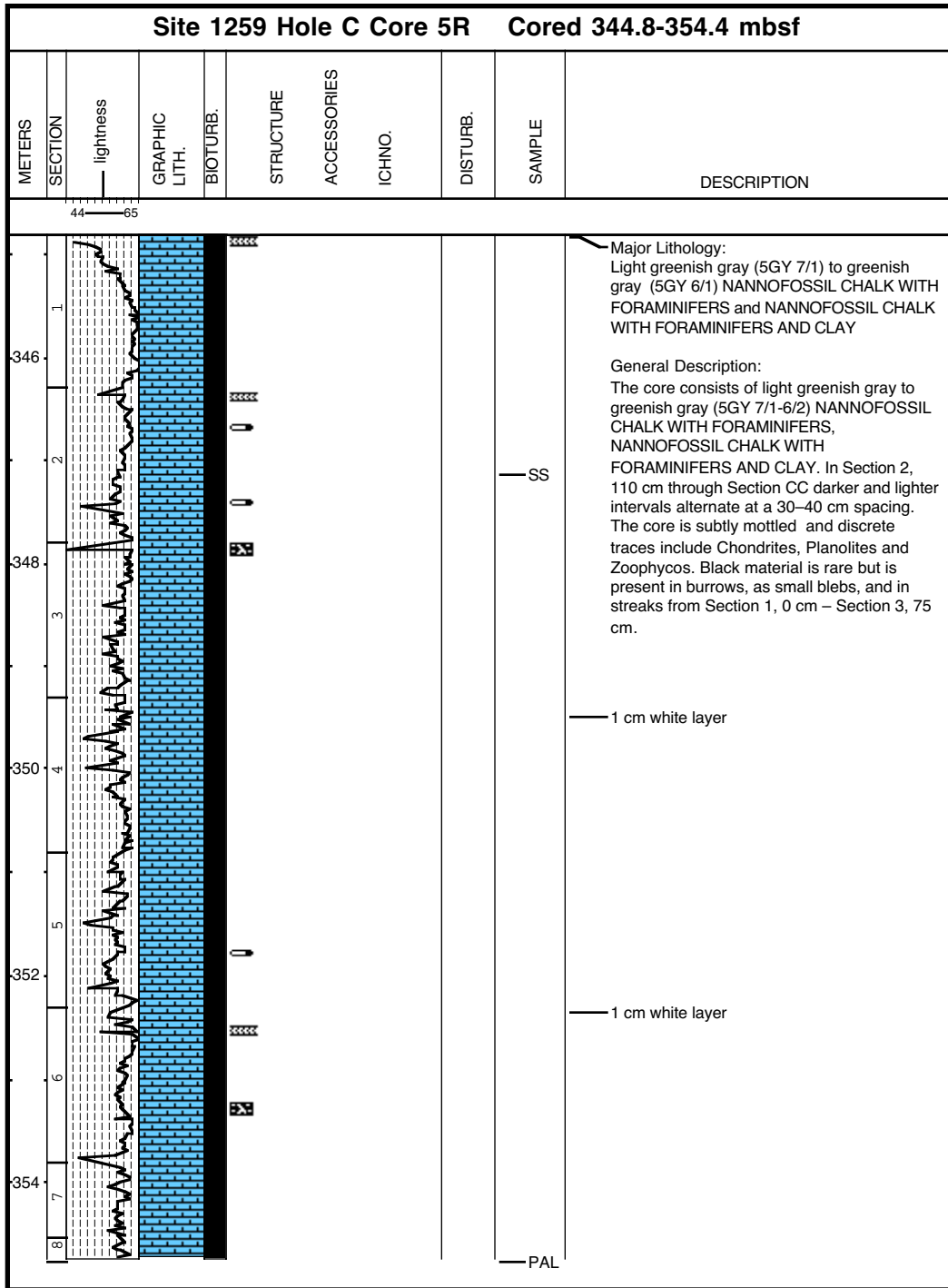
Core Photo



Core Photo

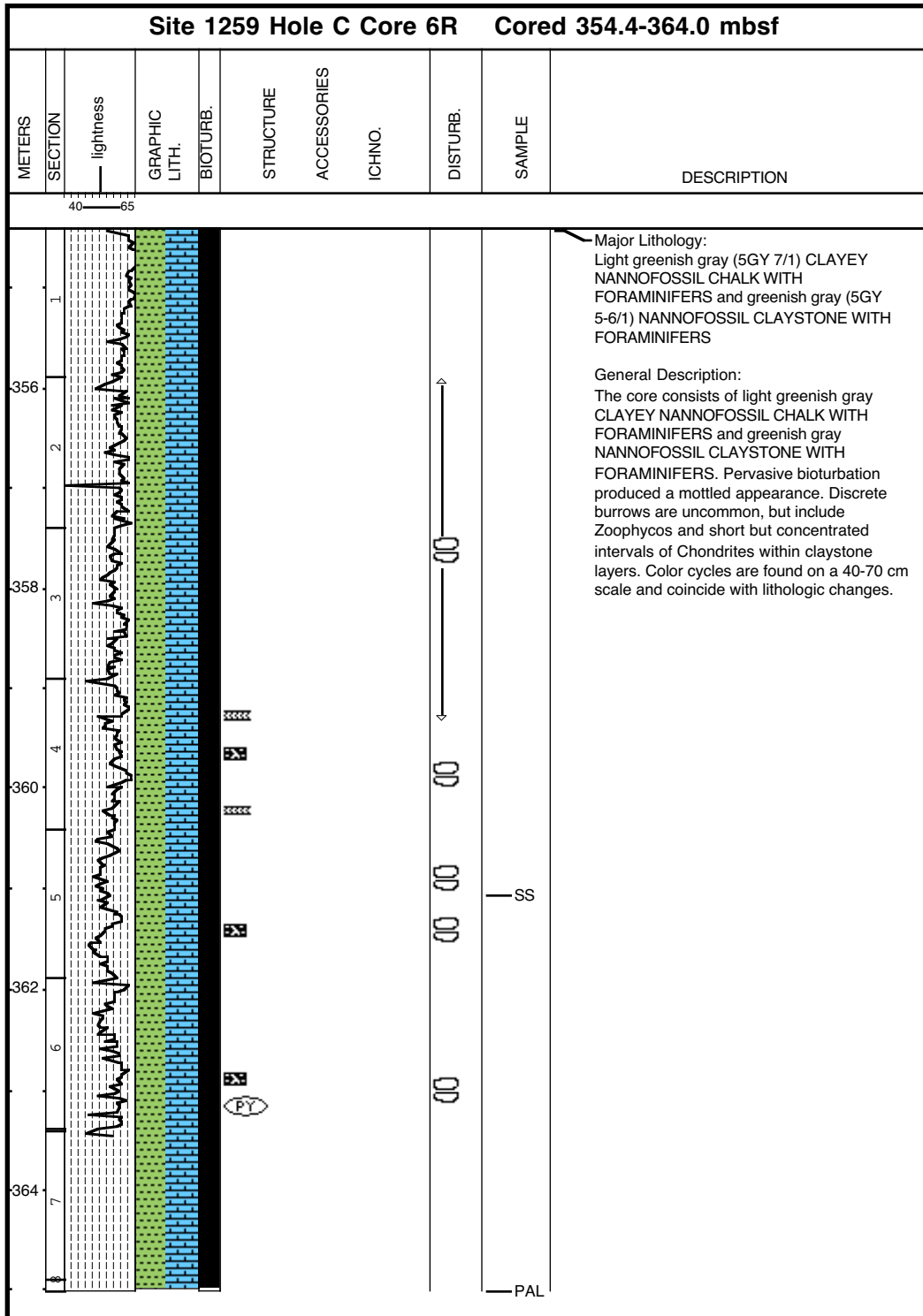


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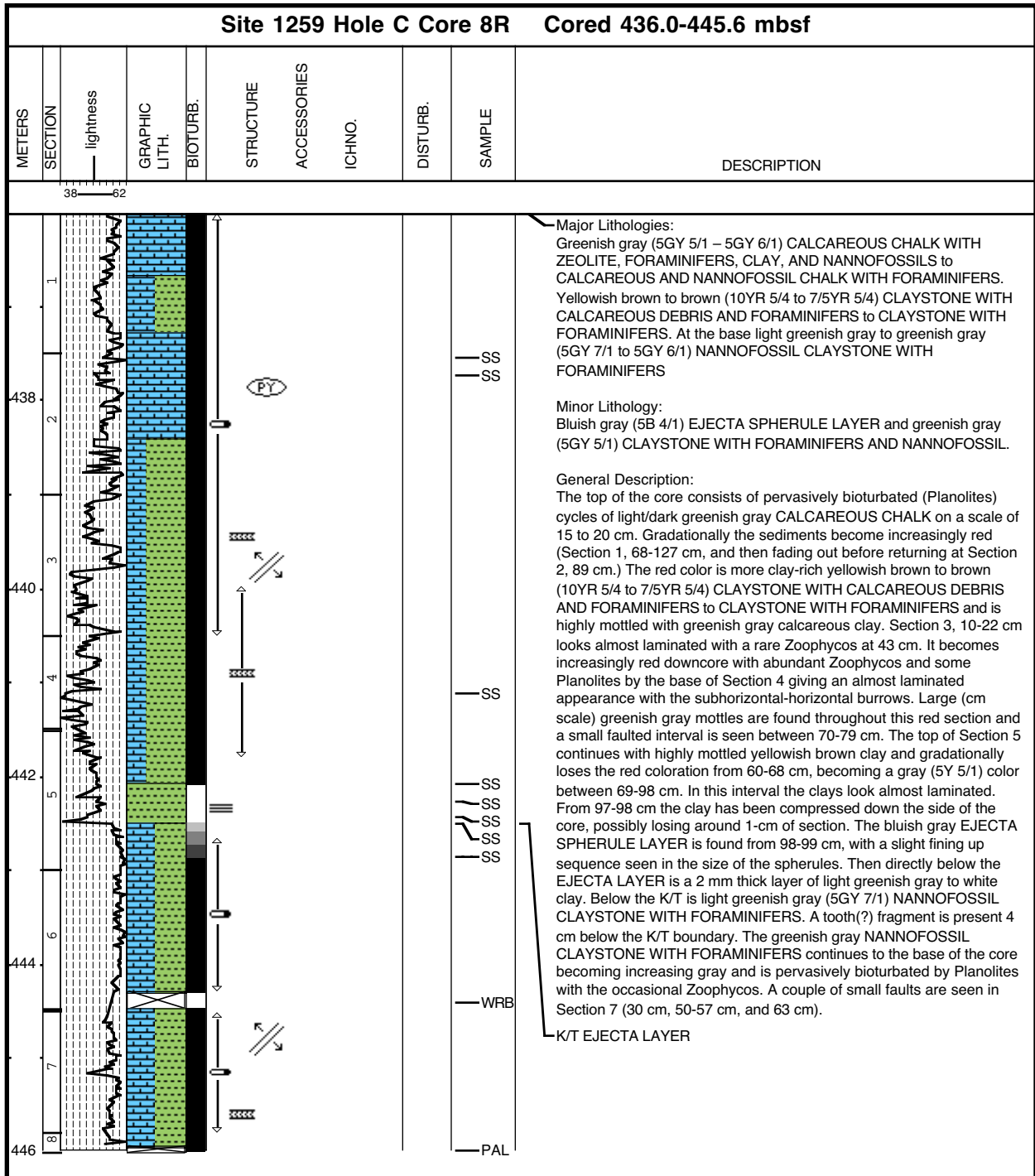


Core Photo



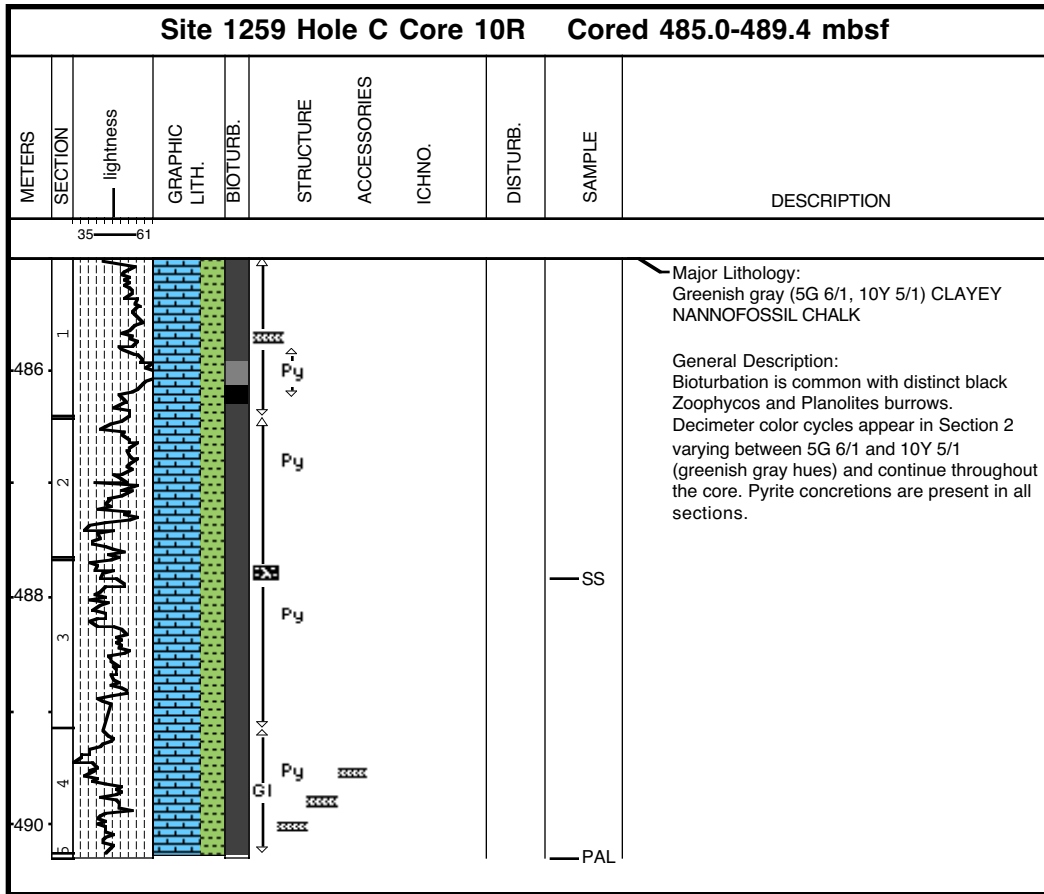


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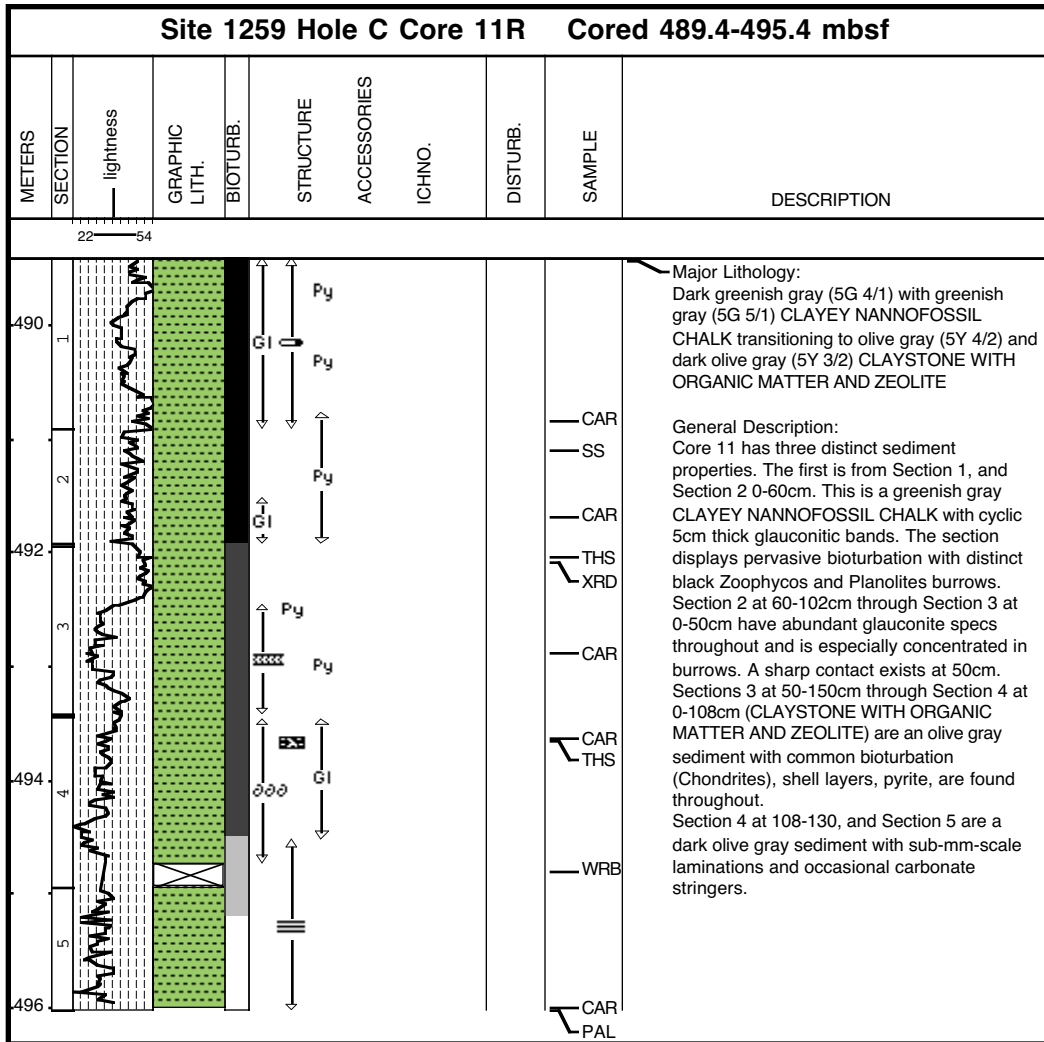


1259C-9R NO RECOVERY

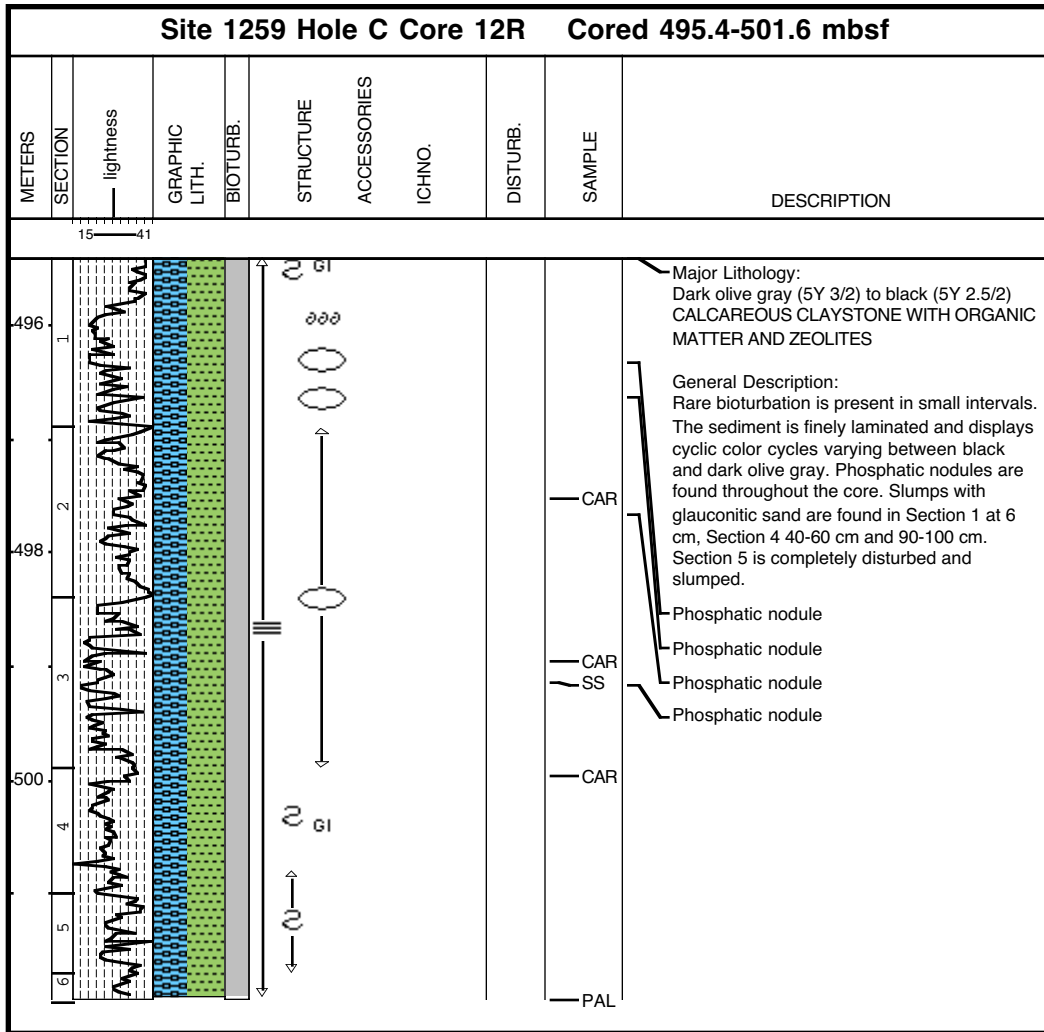
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Core Photo

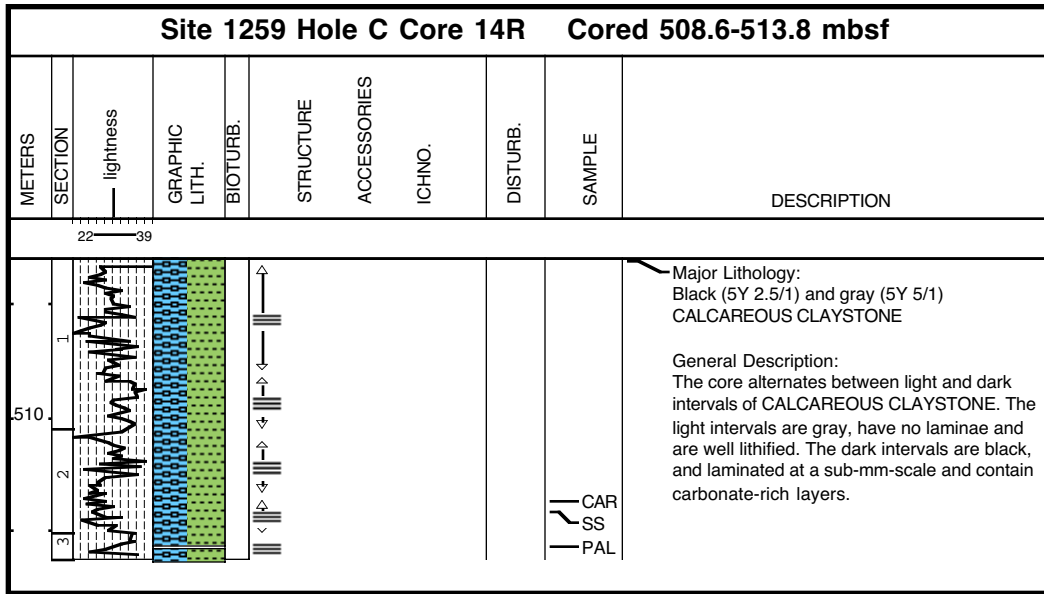


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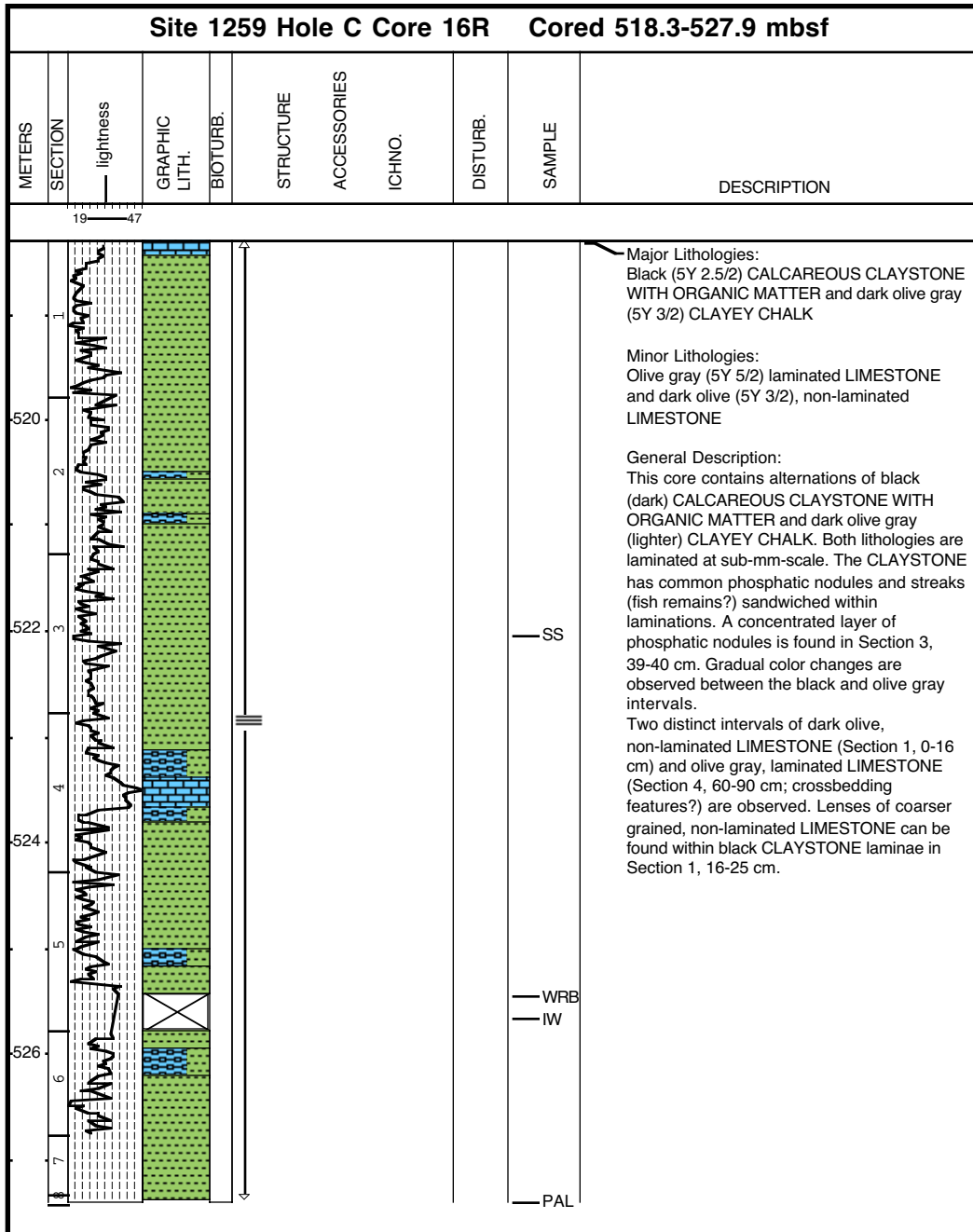
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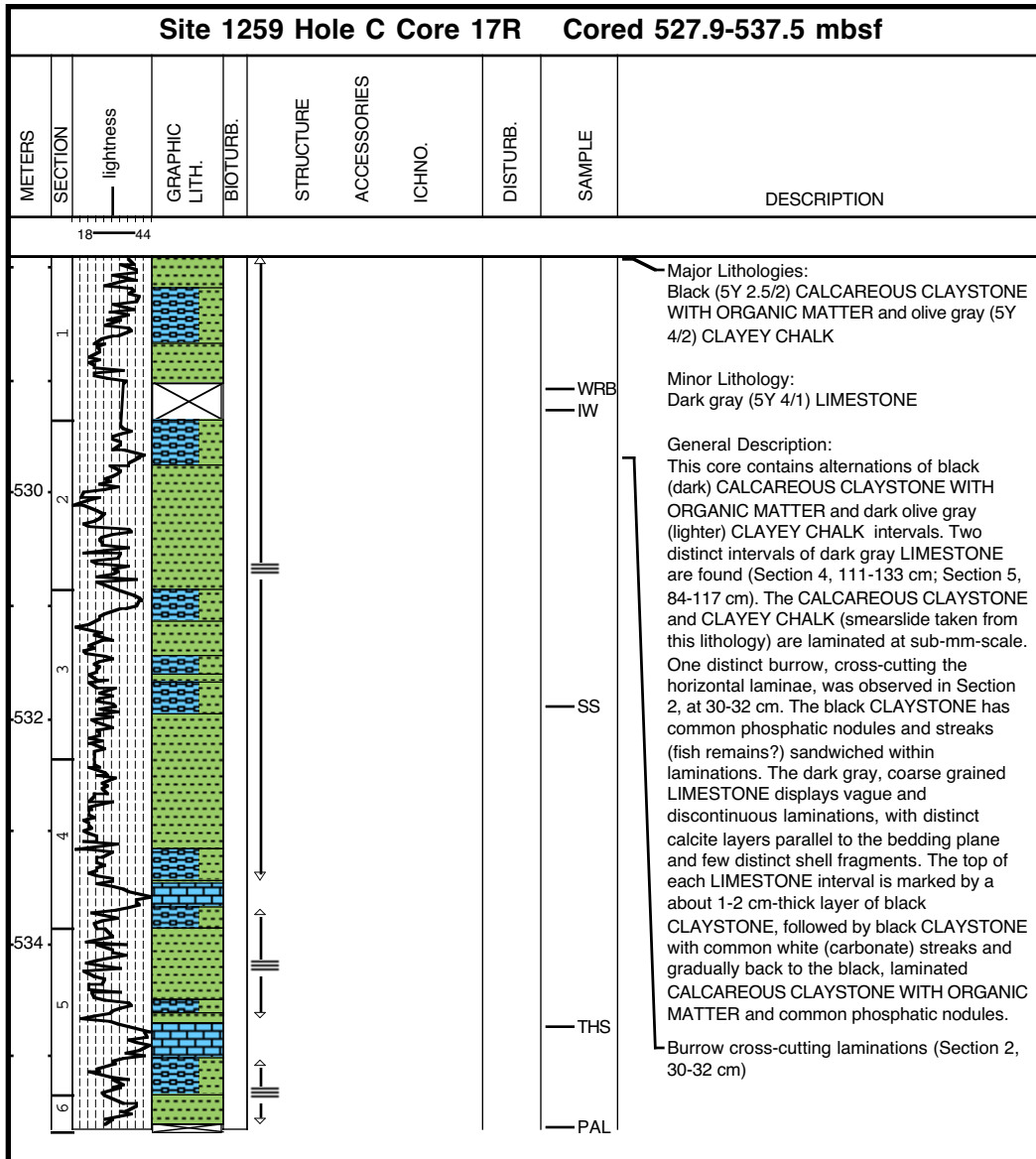




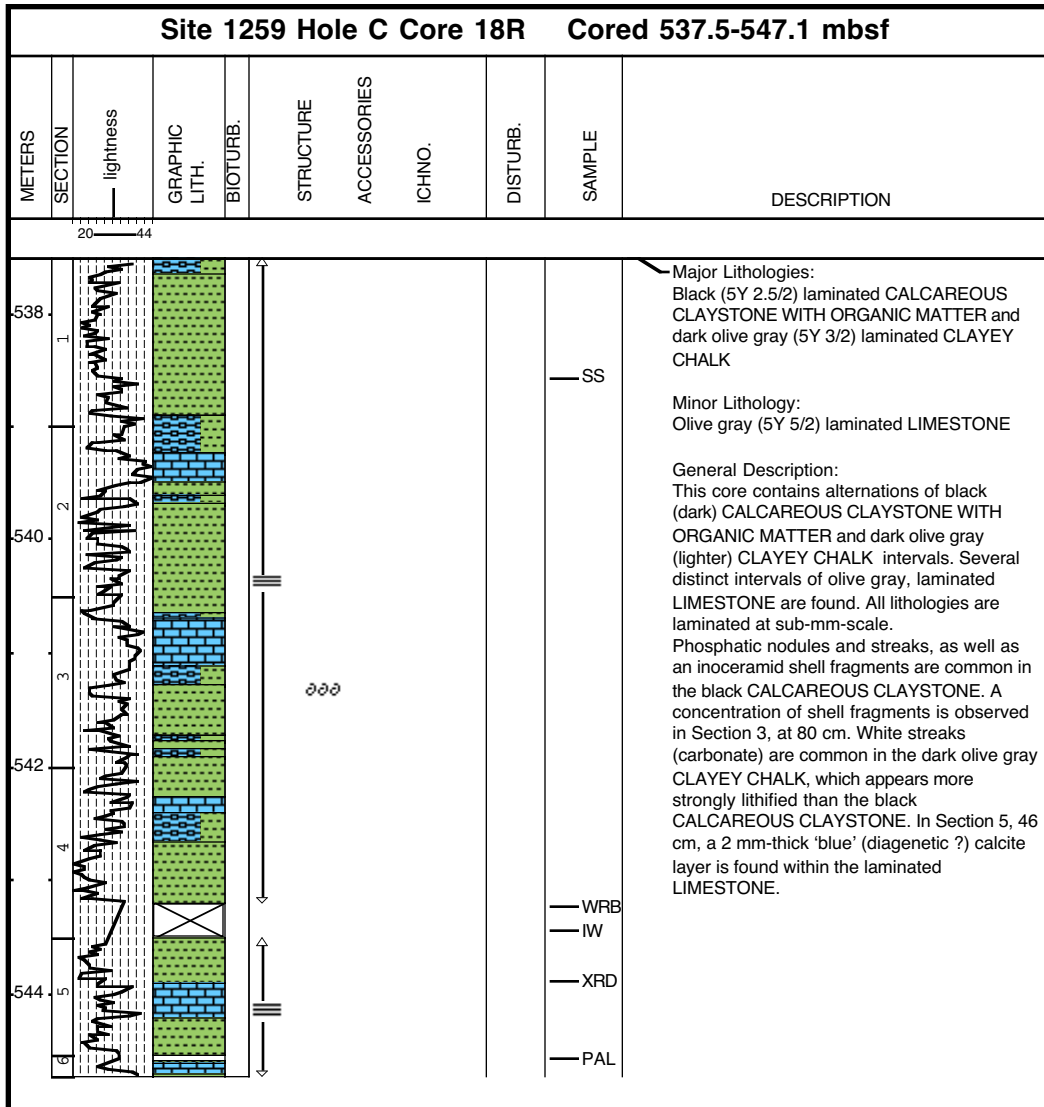
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Core Photo





Sample					Texture			Mineral														Biogenic										Rock	Comments									
	Core	CT	Sct	Top (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Barite (17)	Calcite (30)	Carbonate (35)	Clay Mineral (47)	Dolomite (62)	Feldspar (71)	Glaucanite (82)	Inorganic Calcite (97)	Opauques (140)	Pyrite (169)	Quartz (172)	Zeolite (222)	Biosiliceous Remains (249)	Calcspheres (29)	Diatoms (58)	Echinoid Spine (64)	Fish Remains (74)	Foraminifers (78)	Nannofossils (132)	Planktonic Forams (160)	Radiolarians (173)	Siliceous Sponge Spicules (185)	Unknown (258)		calcareous debris (161)	Organic Debris Organic Matter (142)							
<b>Hole A</b>																																										
1	R	1	6	0.06	M							30					9		1																		Clayey nannofossil ooze					
1	R	1	22	0.22	D																			5												5	Foraminifers nannofossil ooze					
1	R	3	35	2.95	D																															70 30	Foraminifers nannofossil ooze					
2	R	1	52	9.32	D																															75 25	Nannofossil ooze with foraminifers					
2	R	2	55	10.85	M							15												3			2	70	10								5	Nannofossil ooze with clay				
2	R	3	130	13.1	D																																55 40	Foraminifers nannofossil ooze				
3	R	1	9	18.39	M											8																					66 26	Foraminifers nannofossil ooze				
3	R	5	130	25.6	D											3			*																		82 15	Nannofossil ooze with foraminifers				
5	R	1	75	37.15	D												5																				69 26	Foraminifers nannofossil ooze				
5	R	2	75	38.65	D	50		50									2																				49 49	Foraminifers nannofossil chalk (calcareous sand)				
6	R	3	45	48.95	D	45		55									4																				53 43	Foraminifers nannofossil chalk (calcareous sand)				
6	R	3	51.5	49.02	D	50		50									4																					48 48	Foraminifers nannofossil chalk (calcareous sand)			
7	R	5	61	61.21	D	50		50									4																					47 47	Foraminifers nannofossil chalk (calcareous sand)			
8	R	1	95	64.75	D	50		50									4			1	1																	47 47	Foraminifers nannofossil chalk (calcareous sand)			
8	R	2	30	65.6	M							97																											3	Clay		
9	R	2	103	75.43	D	40		60									3	*			1																		50 40	Foraminifers nannofossil chalk		
9	R	5	70	79.6	D							10					3							2															60 20	Nannofossil chalk with foraminifers		
10	R	2	103	85.13	D							5					4																						56 30	Foraminifers nannofossil chalk		
10	R	6	103	91.13	D												4				5																		65 25	Foraminifers nannofossil chalk		
11	R	2	29	94.09	M							5					5				2																			68 20	Nannofossil chalk with foraminifers	
11	R	2	80	94.6	D							5					5			*	2																			68 20	Nannofossil chalk with foraminifers	
12	R	2	50	104	D							5					4			1	1		*																	69 20	Nannofossil chalk with foraminifers	
12	R	5	104	109.04	M							50																											49	Zeolite clay (HCl-residue)		
13	R	1	80	112.5	D																2																			72 25	Nannofossil chalk with foraminifers	
13	R	2	135	114.55	D																1																			77 20	Nannofossil chalk with foraminifers	
13	R	3	95	115.65	M																																			83 15	Nannofossil chalk with foraminifers	
13	R	5	70	118.4	M																2																			78 15	Nannofossil chalk with foraminifers	
14	R	1	70	122	D							2									1		*																		77 20	Nannofossil chalk with foraminifers

Sample				Depth (mbsf)	Lithology	Texture			Mineral										Biogenic										Rock	Comments				
Core	CT	Set	Top (cm)			Sand	Silt	Clay	Barite (17)	Calcite (30)	Carbonate (35)	Clay Mineral (47)	Dolomite (62)	Feldspar (71)	Glauconite (82)	Inorganic Calcite (97)	Opaques (140)	Pyrite (169)	Quartz (172)	Zeolite (222)	Biosiliceous Remains (249)	Calcspheres (29)	Diatoms (58)	Echinoid Spine (64)	Fish Remains (74)	Foraminifers (78)	Nannofossils (132)	Planktonic Forams (160)	Radiolarians (173)		Siliceous Sponge Spicules (185)	Unknown (258)	calcareous debris (161)	Organic Debris
<b>Hole A (continued)</b>																																		
14	R	3	66	124.96	D				5									1								64	30							Foraminifer and nannofossil chalk
14	R	4	22	126.02	M				1									1				2	1			75	20							Nannofossil chalk with foraminifers
15	R	3	43	134.33	M												2		10	2		3				48	25				10			Nannofossil chalk with siliceous debris and foraminifers
16	R	1	75	141.35	M								2	2		1										60	20	5	5		5			Nannofossil chalk with foraminifers
16	R	3	63	144.23	D																					40	45	12	3					Nannofossil foraminifer chalk with radiolarians
17	R	1	80	151	D					5																50	20	15	5		5			Nannofossil chalk with radiolarians and foraminifers
17	R	2	51	152.21	M				3						1		1			5	*					55	15	15	5					Nannofossil chalk with radiolarians and foraminifers
18	R	1	18	159.98	D															2	3		1			47	15	25	5		2			Nannofossil chalk with foraminifer and radiolarians
18	R	1	40	160.2	D												1			3						41	20	30			5			Radiolarian and nannofossil chalk with foraminifers
19	R	2	17	171.17	D																					45	25	25	5					Nannofossil chalk with radiolarians and foraminifers
19	R	3	15	172.35	M								1							2						49	15	30			3			Radiolarian and nannofossil chalk with foraminifers
20	R	3	15	182.35	D															2						46	25	25	2					Nannofossil chalk with foraminifer and radiolarians
20	R	4	104.5	184.75	M																					48	25	25	2					Nannofossil chalk with radiolarians and foraminifers
21	R	3	54	192.34	M																1					48	30	20	1					Foraminifer and nannofossil chalk with radiolarians
21	R	4	12	192.92	D															3						50	31	15	1					Foraminifer and nannofossil chalk with radiolarians
22	R	2	45	200.45	M									10						5						50	20	5			10			Nannofossil chalk with foraminifers
22	R	4	23	203.23	D																					60	20	15	5					Nannofossil chalk with radiolarians and foraminifers
23	R	1	75	208.85	D																*					50	25	20	5					Nannofossil chalk with foraminifer and radiolarians
24	R	1	31	218.11	D															5	10					40	20	25						Nannofossil chalk with diatoms, foraminifers, and radiolarians
25	R	2	37	229.07	D									7						1						68	8	15	1					Nannofossil chalk with radiolarians
26	R	2	37	238.77	D				5				5			*										56	18	15	1					Nannofossil chalk with foraminifers and radiolarians
27	R	5	100	253.5	D				5				5													62	18	10	*					Nannofossil chalk with foraminifers and radiolarians
28	R	2	40	257.54	D								5													55	20	20	*					Nannofossil chalk with foraminifers and radiolarians

Sample				Texture			Mineral										Biogenic										Rock	Comments								
Core	CT	Set	Top (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Barite (17)	Calcite (30)	Carbonate (35)	Clay Mineral (47)	Dolomite (62)	Feldspar (71)	Glauconite (82)	Inorganic Calcite (97)	Opaques (140)	Pyrite (169)	Quartz (172)	Zeolite (222)	Biosiliceous Remains (249)	Calcspheres (29)	Diatoms (58)	Echinoid Spine (64)	Fish Remains (74)	Foraminifers (78)	Nannofossils (132)		Planktonic Forams (160)	Radiolarians (173)	Siliceous Sponge Spicules (185)	Unknown (258)	calcareous debris (161)	Organic Debris	Organic Matter (142)	
<b>Hole A (continued)</b>																																				
29	R	4	60	270.9	D						5					10						*	3					60	12	10						Nannofossil chalk with foraminifers and radiolarians
30	R	2	80	277.8	D						5					10			2									63	12	8						Nannofossil chalk with foraminifers
31	R	1	64	285.74	D						5					10			10		3						52	20								Nannofossil chalk with foraminifers
32	R	1	60	295.3	D						10					10			7		*						61	12								Nannofossil chalk with foraminifers
33	R	1	24	304.64	M						15					10			*		2						60	10					3			Nannofossil chalk with clay
33	R	5	24	310.64	D						10					10				15							55	10								Nannofossil chalk with foraminifers
34	R	5	38	320.4	D						10					15		*	3								52	20								Nannofossil chalk with foraminifers
35	R	1	9.5	323.8	M				5	23				1				3	3		5						35	20					5			Nannofossil chalk with foraminifer and clay
35	R	1	62	324.32	M						5							3	2	30							30	20					10			Zeolitic and nannofossil chalk with foraminifers
35	R	2	135	326.55	D						15									10	5						40	20					10			Nannofossil chalk with zeolite, clay, and foraminifers
35	R	3	130	328	D				5	20								5	5	5	10						30	15					5			Nannofossil chalk with foraminifer and clay
35	R	4	81	328.97	D				5	5									5	3							47	30					5			foraminifer and nannofossil chalk
36	R	5	50	339.8	D						16							2	2		5						50	20					5			Nannofossil chalk with clay and foraminifers
37	R	1	50	343.5	D					5	20									2							58	15	*							Nannofossil chalk with foraminifers and clay
37	R	2	140	345.9	M					10	40									2							43	5								Clayey nannofossil chalk with calcium carbonate
37	R	6	92	351.42	D				5	25										1							55	14								Nannofossil chalk with foraminifers and clay
38	R	1	71	353.31	D				15	40				*						2	1						32	10								Nannofossil clay with foraminifers and calcite
38	R	4	81	357.91	D					20	40									2							33	5								Nannofossil clayey with calcite
38	R	5	17	358.77	M				10	30										5							35	20								Nannofossil and clay chalk with calcite and foraminifers
39	R	1	65	362.85	D					20									1	1							60	15					3			Nannofossil chalk with foraminifers and clay
39	R	4	85	366.2	D					12								5	2					1			50	25					5			Nannofossil chalk with clay and foraminifers
39	R	5	115	368	D				8	39										5	8						20	10	*				10			Clay with foraminifer and nannofossils
39	R	5	130	368.15	M				5	45										5	5						20	10					10			Clay with foraminifers and nannofossils
39	R	5	138	368.23	M					40										15	8						20	2	*				15			Clay with nannofossils
39	R	5	142	368.27	M					2	92																5	1								Claystone



Sample					Texture	Mineral																	Biogenic	Rock	Comments										
	Core	CT	Set	Top (cm)		Depth (mbsf)	Lithology	Sand	Silt	Clay	Barite (17)	Calcite (30)	Carbonate (35)	Clay Mineral (47)	Dolomite (62)	Feldspar (71)	Glaucinite (82)	Inorganic Calcite (97)	Opaques (140)	Pyrite (169)	Quartz (172)	Zeolite (222)				Biosiliceous Remains (249)	Calcspheres (29)	Diatoms (58)	Echinoid Spine (64)	Fish Remains (74)	Foraminifers (78)	Nannofossils (132)	Planktonic Forams (160)	Radiolarians (173)	Siliceous Sponge Spicules (185)
<b>Hole A (continued)</b>																																			
39	R	5	145	368.3	D						2	45								5						*		25	13				10		Clay with foraminifers and nannofossils
40	R	1	77	372.57	M						5	25							2	2								45	10	1			10		Nannofossil chalk with foraminifers and clay
40	R	2	100	374.3	D						6	20							2	2		3						50	5	2			10		Nannofossil chalk with clay
41	R	1	23	381.63	D						5	20							3	1	1	5				*		60	5						Nannofossil chalk with clay
41	R	CC	5	381.73	D						2	26							5	1	5					1		50	5				5		Nannofossil chalk with clay
43	R	3	108	404.78	D						3	37							1	1		1						50	5				2		Clayey nannofossil chalk
44	R	2	73	412.63	D						2	41									2							50	5						Clayey nannofossil chalk
45	R	1	80	420.8	D						5	50								2	5							30	3				5		Nannofossil clay
45	R	4	29	424.19	D						3	50							3	2	4					2		30	2				4		Nannofossil clay
45	R	4	56	424.46	M						5	51							4	2								25	10				3		Nannofossil clay with foraminifers
46	R	4	68	434.09	D						7	25						3			3							49	12				1		Nannofossil chalk with clay and foraminifers
47	R	1	40	439.6	D						40	30								*	6		*					9	15						Clayey carbonate with foraminifers
47	R	3	40	441.98	M						10	60								*		10						5	15						Clay with calcite and foraminifers
47	R	3	60	442.18	M						3	42									2		30					3	20						Calcareous dinoflagellate clay with foraminifers
47	R	3	71	442.29	M						3	74					10		*			*						8	5						Clay
47	R	3	71.5	442.3	M							90																					10		Clay
47	R	3	72	442.3	D						5									1	3							65	26						Foraminifer nannofossil chalk
47	R	3	110	442.68	D						5	5									*							75	10				5		Nannofossil chalk
48	R	5	54	455.34	D						5	15								2	1							47	5				25		Calcareous debris/nannofossil chalk with clay
49	R	4	72	463.45	D							20																20	10				50		Calcareous siltstone (calcareous debris chalk with nannofossils)
50	R	2	55	470.05	D							10									2							10	10				68		Calcareous siltstone (calcareous debris chalk)
51	R	6	41	485.48	D						30	35								1	1							2	15				16		Clayey calcareous siltstone
52	R	2	60	489.07	D							40				5				5	20					5		20	5						Claystone with quartz and nannofossil
52	R	4	91	492.23	M							14		1	10				10	30						10		20	5						Quartz arenite with glauconite, pyrite, fish remains, clay, and nannofossil
52	R	4	101	492.33	D					*		37			5				3	10						5		30	10			*			Nannofossil clayey with quartz and foraminifer
52	R	4	144	492.76	D							33			15					10						10		30	2						Nannofossil clayey with quartz, fish debris, and glauconite
52	R	6	33	493.93	D							5	14		5				5		1					5		40	25						Nannofossil chalk with clay and foraminifers
52	R	6	99	494.59	D						10	18								2	5					5		40	15				5		Nannofossil chalk with foraminifers and clay

Sample				Depth (mbsf)	Texture			Mineral										Biogenic										Rock	Comments								
Core	CT	Set	Top (cm)		Lithology	Sand	Silt	Clay	Barite (17)	Calcite (30)	Carbonate (35)	Clay Mineral (47)	Dolomite (62)	Feldspar (71)	Glaucinite (82)	Inorganic Calcite (97)	Opauques (140)	Pyrite (169)	Quartz (172)	Zeolite (222)	Biosiliceous Remains (249)	Calcspheres (29)	Diatoms (58)	Echinoid Spine (64)	Fish Remains (74)	Foraminifers (78)	Nannofossils (132)	Planktonic Forams (160)		Radiolarians (173)	Siliceous Sponge Spicules (185)	Unknown (258)	calcareous debris (161)	Organic Debris	Organic Matter (142)		
<b>Hole A (continued)</b>																																					
53	R	1	49	497.49	M				3	7				20			10	3	10					7	30	10									Nannofossil and glauconite chalk with fish remains, foraminifers, zeolite, and pyrite		
53	R	2	27	498.77	D				5	30							5	2	10					3	5	30							10		Foraminifer and clay with zeolite and organic matter		
53	R	3	90	500.9	D				5	21									3					5	30	30	1						5		Nannofossil and foraminifer claystone		
54	R	1	68	507.28	D				5	30							10	2	5					3	20	20								5		Claystone with pyrite, nannofossils, and foraminifers	
54	R	3	27	509.87	D				50	13	15						5	2						5	5	5										Limestone	
55	R	2	89	512.94	D				2	55						*		1	1					1	10	15								15		Claystone with nannofossils, foraminifers, and carbonate	
55	R	3	61	513.62	D				15	50				*		1			1						5	5						15		8		Calcareous claystone with carbonate	
56	R	1	37	516.17	M				10	47						1			1					*	8	5						20		8		Calcareous claystone with nannofossils	
56	R	2	111	518.27	M				20	42			5		2				5					1	5	15								5		Calcareous claystone with foraminifers	
57	R	1	113	521.43	D						37						10		5	5				3	10	20	5							5		Claystone with nannofossils, pyrite, and foraminifers	
57	R	3	30	523.6	M				89								3	2						2		1								3		Limestone	
57	R	5	120	527.5	M					5	62	2					5	2	10							2	2							10		Claystone with carbonate and zeolite	
58	R	1	77	530.67	D				15	28	5						10	2	5							10	20								5		Claystone with nannofossils, pyrite, calcite, and foraminifers
58	R	1	97	530.87	D						72						10		2					1											15		Claystone with pyrite and carbonate
58	R	3	107	533.58	D				73	20	5						2																				Limestone with clay
59	R	1	108	540.58	D				*	5	35						5	5	10	5				5	10	10									10		Claystone with carbonaceous nannofossils, foraminifers, and zeolite
59	R	4	107	544.9	M				5	55	10	10					5			5				10													Limestone with dolomite, clay, and fish remains
59	R	5	109	546.23	D				3	54							10		10					2	10	1									10		Claystone with zeolite, pyrite, nannofossils, and carbonate
59	R	CC	19	546.61	M				10	27							20	5	5					3	20	10											Claystone with calcite, foraminifers and nannofossils

Sample					Mineral														Biogenic										Rock			Comments			
Core	CT	Sct	Top (cm)	Depth (mbsf)	Lithology	Barite (17)	Calcite (30)	Carbonate (35)	Clay Mineral (47)	Clinoptilolite (48)	Dolomite (62)	Feldspar (71)	Glauconite (82)	Opalines (140)	Pyrite (169)	Quartz (172)	Unspecified Minerals (218)	Zeolite (222)	Calcspheres (29)	Fish Remains (74)	Foraminifers (78)	Nannofossils (132)	Planktonic Forams (160)	Radiolarians (173)	Siliceous Sponge Spicules (185)	calcareous debris (161)	Micrite (119)	Organic Debris Organic Matter (142)	Siliceous Fragments (184)						
<b>Hole B</b>																																			
1	R	1	5	0.05	M				40							10					10	30					10							Nannofossil and clay ooze with quartz, foraminifers, and calcareous debris	
1	R	1	15	0.15	M				35												15	50												Clay and nannofossil ooze with foraminifers	
1	R	1	35	0.35	D		3		17							2			3		20	55												Foraminifer and nannofossil ooze with clay	
2	R	1	36	305.36	M		10		45		1					1		3			10	30												Nannofossil and clay chalk with calcite and foraminifers	
2	R	1	55	305.55	D		5		20							2		5	3		25	40												Foraminifer and nannofossil chalk with clay	
2	R	2	108	307.58	M		5		35									5	5		10	40												Clay and Nannofossil chalk with foraminifers	
4	R	2	33	326.03	D		20		40									20			10	10												Clayey chalk with zeolite	
5	R	3	78	337.58	D		15		10							*			3		10	42						20						Nannofossil chalk	
6	R	2	78	345.68	D		30		10							*					15	45												Nannofossil chalk with foraminifers	
7	R	5	40	359.5	D		20		10							*			1		15	54												Nannofossil chalk with foraminifers	
8	R	2	74	364.94	D		35		10		2					*			1		17	35												Nannofossil chalk with foraminifers	
8	R	4	95	368.15	M				99							*		1																Clay	
8	R	4	107.5	368.28	D		44		6									3			3	44												Nannofossil chalk	
10	R	2	98	422.98	D		20		20												10	50													Nannofossil chalk with clay
11	R	1	56	430.66	D		15		25										1		8	30						21						Nannofossil chalk with clay	
12	R	3	81	443.51	D		8		51												30	5													Foraminifer claystone
13	R	6	65	452.86	D		15		30		5					*					25	25												Clayey chalk	
14	R	3	123.5	458.54	D		10		22		1					1		1	*		40	10						15						Foraminifer chalk with clay	
15	R	1	31	462.21	D			10	28							1		5		1	10	40					5							Clay and nannofossil chalk with foraminifers and calcite	
15	R	1	37	462.27	D			30	47		2					2		2			2	10					5							Calcareous claystone with nannofossils	
16	R	1	59	472.09	D			20	52							2		15			2	2					5							Claystone with zeolite and calcite	
16	R	1	66	472.16	D			20	27		3					3		2			20	25												Clay calcareous and nannofossil chalk with foraminifers	
16	R	3	35	474.85	M			15	17				1								10	20					10							Zeolitic and nannofossil chalk with foraminifers and calcite	
17	R	1	140	477.9	M			5	25							3	2	15			5	20					15	10						Nannofossil and clay chalk with zeolite and calcite	
17	R	2	140	479.4	D			24	25							8	3				10	20					10							Calcareous claystone with foraminifers and nannofossils	
18	R	1	35	486.25	D			5	33									5		2	10	35												Clay and nannofossil chalk with pyrite and foraminifers	
18	R	4	55	490.95	D			5	40			*	1		2	10		3		4	5	30												Nannofossil claystone with quartz	
18	R	7	23	494.22	M			2	28				5		15	10					5	10	25											Clay and nannofossil chalk with quartz, foraminifers, and pyrite	
18	R	7	89	494.88	D	*		5	28				5		10	2		10		5	10	25												Nannofossil and clay chalk with pyrite, zeolite, and foraminifers	
18	R	CC	0	495.49	M		3		41		3	*	30			5					3	15												Glauconite claystone with nannofossils	
19	R	1	13	495.63	M			10	5				10			5					5	20	35							5				Nannofossil chalk with calcareous glauconite and foraminifers	
19	R	1	80	496.3	D			15	24							10	5	3		3	15	20												Nannofossil and clay chalk with zeolite, calcite, and foraminifers	

Sample				Mineral												Biogenic										Rock			Comments						
Core	CT	Set	Top (cm)	Depth (mbsf)	Lithology	Barite (17)	Calcite (30)	Carbonate (35)	Clay Mineral (47)	Clinoptilolite (48)	Dolomite (62)	Feldspar (71)	Glauconite (82)	Opaques (140)	Pyrite (169)	Quartz (172)	Unspecified Minerals (218)	Zeolite (222)	Calcspheres (29)	Fish Remains (74)	Foraminifers (78)	Nannofossils (132)	Planktonic Forams (160)	Radiolarians (173)	Siliceous Sponge Spicules (185)	calcareous debris (161)	Micrite (119)	Organic Debris Organic Matter (142)		Siliceous Fragments (184)					
<b>Hole B (continued)</b>																																			
20	R	2	38	506.48	D	*		35	37																									1	Calcareous claystone with foraminifers
21	R	1	49	515.29	D			10	28						10	2				2	20	5										5	5	Claystone with pyrite, calcite, foraminifers, and nannofossils	
22	R	1	29	524.69	M			3	72						1	3			2	10		2										2	5	Claystone with fish debris	
22	R	1	87	525.27	D			5	64						2				3		3	10					10					3	3	Claystone with calcite and nannofossils	
22	R	3	140	528.8	M			3	82						5				3		2												5	5	Claystone
23	R	1	134	535.34	D			5	63						2							15	5										5	5	Claystone with foraminifers
24	R	4	44	548.54	M	*		5	15				*		25	50	3																2	2	Pyrite and quartz sandstone with clay
24	R	4	79	548.89	M	*		5	53						15	20					2												5	5	Claystone with pyrite and quartz
25	R	1	5	553.25	M	*		10	25					5	10	40																	10	10	Quartz claystone with calcareous pyrite and organic matter
25	R	1	60	553.8	M	3		10	29		3			5	10	30																	10	10	Quartz claystone with calcareous organic matter and pyrite
25	R	2	111	555.81	M	2	5	5	35					5	15	25											3						5	5	Quartz claystone with pyrite

Core	Sample				Lithology	Mineral										Biogenic										Rock		Comments	
	CT	Sct	Top (cm)	Depth (mbsf)		Calcite (30)	Carbonate (35)	Clay Mineral (47)	Dolomite (62)	Opaques (140)	Pyrite (169)	Quartz (172)	Zeolite (222)	Calcspheres (29)	Dinoflagellate (59)	Fish Remains (74)	Nannofossils (132)	Planktonic Forams (160)	Radiolarians (173)	Siliceous Sponge Spicules (185)	calcareous debris (161)	Organic Debris Organic Matter (142)	Siliceous Fragments (184)						
<b>Hole C</b>																													
1	R	1	81	308.81	D	10	10	12							11	2											Foraminifer chalk with zeolite		
2	R	5	58	324.18	D	20	10	15							12	1												Nannofossil chalk with zeolite, clay, and foraminifers	
3	R	2	49	329.19	D	15	10	20							3	2												Nannofossil chalk with clay	
4	R	6	49	343.19	M	10	15	23							1	1												Nannofossil chalk with carbonate, foraminifers, and clay	
5	R	2	80	347.10	D			29							5	1								15				Clayey nannofossil chalk with carbonate debris and foraminifers	
6	R	5	61	361.01	D			43							5	1								8				Nannofossil claystone with foraminifers	
7	R	1	57	364.57	D	5		39						1	2	1	2							5				Nannofossil claystone	
7	R	2	4	365.39	D	5		39						2		2								10				Nannofossil clayey chalk with carbonate debris and foraminifers	
7	R	2	90	366.25	D	5		65							2	3												Claystone with nannofossils and foraminifers	
7	R	2	103	366.38	M	3		73							2	5		*							3			Claystone	
7	R	2	112	366.47	M			80								2									10			Claystone	
8	R	2	3	437.53	D		30	3							2	2	3							10				Calcareous and nannofossil chalk with foraminifers	
8	R	2	21	437.71	M		10	17						5	3	15								15				Calcareous chalk with zeolite, foraminifers, clay, and nannofossils	
8	R	4	5	440.55	D		5	34								15								10				Nannofossil claystone with foraminifer calcareous debris and zeolite	
8	R	4	60	441.10	D		10	45	2						5	3								5				Claystone with carbonate and foraminifers	
8	R	5	58	442.07	M		5	63						1	2	2									5				Claystone with foraminifers
8	R	5	76	442.25	M		5	53							2	5													Claystone with foraminifers and nannofossils
8	R	5	92	442.41	M		2	66								3	3												Claystone with foraminifers and nannofossils
8	R	5	100	442.49	M			65								20													Claystone with nannofossils and opaque minerals
8	R	5	134	442.83	D	8		47						1	2	2													Nannofossil claystone with foraminifers
10	R	3	18	487.83	D	30	2	30						2		3	1												Clayey nannofossil chalk
11	R	2	17	491.07	D	10		44						3		*	15								2	11			Claystone with organic matter and zeolite
12	R	3	73	499.13	D	10	*	39						3		12									11				Calcareous claystone with organic matter and zeolite
13	R	3	112	505.72	D	20	7	37						2	1	2									5	11			Clayey chalk with organic matter
14	R	2	72	510.82	D	20	3	49							4	4			2	*									Calcareous claystone
15	R	1	55	514.35	D	20	5	46						1												8			Calcareous claystone
16	R	3	74	522.02	D	20		45						4			*									11			Calcareous claystone with organic matter
17	R	3	102	531.88	D	25	8	30						3		3										5			Clayey chalk
18	R	1	104	538.54	D	2		45	1					3		5									6	15			Calcareous claystone with organic matter

Sample							Mineral													Biogenic										Rock						Lithology	Comments			
	Cor	CT	Sct	Top (cm)	Bot (cm)	Depth (mbsf)	Thin Section Number	Lithology	Calcite	Clay	Inorganic Calcite	Feldspar	Glauconite	Fe-oxide	Opaque Minerals	Pyrite	Quartz	Zeolite	Zircon	Fish Remains	Bioclast	Nannofossils	Foraminifers	Planktonic Foraminifer	Benthic Foraminifers	Radiolarians	Organic Debris	Shell Fragments	Microfossils	Cement	Micrite	Sparite	Lithic Fragments	Siliceous Matrix	Organic Matter					
<b>Hole A</b>																																								
26	R	3	121	124	241.11	76	D		12	35										1		50		1	1											100	Foraminifer packstone	Foraminifers are mainly filled with micrite, rarely with blocky calcite. Foraminifers are transported/winnowed. Small ones filling the space between big ones. Bioclasts are shell fragments. Micrite is matrix or cement.		
30	R	4	49		53.00	77	D		10	35							3	3				50			2											103	Foraminifer sand	Foraminifers filled with blocky calcite or probably broken out, empty-rare zeolite growth in chambers		
38	R	CC	0	5	359.24	31	D		35					1		2	12									8								42		100	Clayey carbonate wackestone with zeolite	In broken piece out of nannofossil molds. Micrite includes nannofossils.		
49	R	1	55	57	458.95	78	D		9											1	*		50											40		100	Foraminifer wackestone to packstone	Foraminifers are filled with sparite, matrix (clayey) micrite. Bioclasts are bivalve shells.		
55	R	3	27	29	513.28	79		44	30						1					1															10	10	110			
59	R	4	110	113	544.93	81	D		20				*		*		*		5			50											15		10	10	110	Clayey limestone (with organic matter and clay)	The analyses show that total organic matter accounts for approximately 5% to 10%. 30% of micrite is clay and organic matter, 15% micritic (nannofossil) fecal pellets.	
59	R	CC	19	22	546.61	80	D		10						3	*			1		8												75		3	3	103	Calcareous Wackestone	Distinctly laminated. Micritic matrix consists of fecal pellets and is microsparitic.	
60	R	1	21	23	549.31	82	D		25							50					*												25					100	Quartz arenite	Quartz grains are predominantly angular to subangular. Some show undulous extinction. No quartz overgrowth is seen, except for rare concave/convex contacts. Matrix/cement is 25% clay and 25% micrite. Nannofossil fragments are present in cement.
<b>Hole B</b>																																								
24	R	4	38	40	548.48	105	M		5							15			*	30													50				100	Bioclastic limestone	Angular quartz. Bioclasts are with neomorphic spar.	
24	R	4	49	52	548.59	99	D	5	10						15	65																	5				100	Quartz arenite with opaque minerals	Angular quartz. Calcite is large diagenetic calcite. Cement is carbonate.	
24	R	5	56	58	550.16	100	D		10					8	18				*	30				1										33				100	Bioclastic limestone with quartz	Bioclasts are mainly replaced by neomorphic spar, including echinoids, bivalve shells, gastropods. Sparite is microsparic cement.

Sample						Mineral																Biogenic													Rock									Lithology	Comments
Cor	CT	Set	Top (cm)	Bot (cm)	Depth (mbsf)	Thin Section Number	Lithology	Calcite	Clay	Inorganic Calcite	Feldspar	Glaucinite	Fe-oxide	Opaque Minerals	Pyrite	Quartz	Zeolite	Zircon	Fish Remains	Bioclast	Nannofossils	Foraminifers	Planktonic Foraminifer	Benthic Foraminifers	Radiolarians	Organic Debris	Shell Fragments	Microfossils	Cement	Micrite	Sparite	Lithic Fragments	Siliceous Matrix	Organic Matter											
<b>Hole B (continued)</b>																																													
24	R	5	84	88	550.44	101		45	20					20	15																					100	Diagenetic limestone with clay, opaque minerals and quartz	Opaque minerals include pebbles of pyrite. 20% of calcite is beef calcite, 25% is other diagenetic calcite.							
25	R	1	47	51	553.67	102	D	19	30	*				26	25																					100	Partially pyritized quartz wacke to quartz arenite	Opaque minerals include areas with pyrite replacing matrix. Calcite is diagenetic.							
25	R	1	113	117	554.33	103	D	46						10	25											1	*			15	3						100	Quartz wackestone (silt-sized)	Very fine to extremely fine-grained quartz wacke.						
25	R	2	26	30	554.96	104	D	2	20					1	38				6																		103	Very fine-grained quartz sandstone (wackestone)	Bioclasts include echinoid fragments. Lithic fragments include quartzite and chert. Large crystals of diagenetic calcite incorporating quartz.						
<b>Hole C</b>																																													
11	R	3	11	13	492.04	106	D	20				6	10	4				3					2														100	Chalk with clay	Distinctly glauconitic.						
11	R	4	19	21	493.62	107	M	2	20	*	27		4	3				5				4				3				30							100	Glauconitic claystone	Diagenetic blocky calcite. Opaque minerals include several ~1mm pyrite nodules). Micrite is background matrix. Foraminifers are mainly fragments.						
15	R	2	42	45	515.72	108			10			10	2					25				10				2			5	36							100	Calcareous phosphorite with glauconite and foraminifer	Microspar matrix. Cement is sparite. One big benthic foraminifer among planktonic foraminifers. Fish remains.						
17	R	5	86	90	534.72	109	D		16					3				2	2			50								25							100	Foraminifer wackestone with foraminifer packstone patches	Micrite background. Bioclasts are long very thin shells.						