

Core Photo

Core Photo

1131A-2H 3.4-12.9 mbsf

METERS	SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	COLOR	CONSOLIDATION	DESCRIPTION
4	1												
5	2												
6	3												
7	4												
8	5												
9	6												
10													
11													

The core consists of UNLITHIFIED BIOCLASTIC PACKSTONE in most of Section 1, grading into an UNLITHIFIED BRYOZOAN RUDSTONE and FLOATSTONE in the remaining sections. Bryozoan fragments are gravel sized (1 cm) and the matrix is a fine to medium sand-sized packstone rich in pellets, sponge spicules and foraminifers. The sediment has been completely mixed due to burrowing.

Legend:

- P: Primary porosity
- R: Root casts
- F: Fossils
- Void: Void

CORE DESCRIPTIONS
VISUAL CORE DESCRIPTIONS, SITE 1131

Core Photo

1131A-3H 12.9-22.4 mbsf											
METERS	SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	COLOR	CONSOLIDATION	DESCRIPTION
13	1										The core consists of alternating units of UNLITHIFIED BIOCLASTIC PACKSTONE, and UNLITHIFIED BRYOZOAN RUDSTONE and FLOATSTONE. Bryozoan fragments in the rudstone and floatstone are gravel-sized (1 cm), and the matrix is a very fine to fine sand-sized wackestone, rich in pellets and planktonic foraminifers. Sediments are completely mixed due to bioturbation.
14	2										
15	3										
16	4										
17	5										
18	6										
19	7										
20											
21											
22											

CORE DESCRIPTIONS
VISUAL CORE DESCRIPTIONS, SITE 1131

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Core Photo

1131A-4H 22.4-31.9 mbsf								
METERS	SECTION	TEXTURE	STRUCTURE	ACCESSORIES	DISTURB.	COLOR	CONSOLIDATION	DESCRIPTION
23	1				— SS	WH		The entire core consists of a coarsening-upward succession with an UNLITHIFIED WACKESTONE at the base and an UNLITHIFIED BRYOZOAN RUDSTONE at the top. The boundaries between the different textures are gradational, probably due to the strong bioturbation which occurs throughout the core.
24	2							The UNLITHIFIED BRYOZOAN RUDSTONE contains abundant gravel-size particles of fenestrate, flat robust and delicate branching as well as small nodular bryozoa. The matrix of the UNLITHIFIED BRYOZOAN RUDSTONE is dominated by calcareous nannofossils, and contains minor benthic and planktonic foraminifers, sponge and tunicate spicules, minor calcite and micrite grains, traces of dolomite, and traces of clay.
25	3					It GY		The UNLITHIFIED BRYOZOAN FLOATSTONE contains the same components as the UNLITHIFIED BRYOZOAN RUDSTONE. The components of the UNLITHIFIED BIOCLASTIC PACKSTONE are bioclasts, abundant benthic foraminifers, debris of articulated zoolithic bryozoa, ostracodes, sponge spicules, and minor planktonic foraminifers.
26	4				— IW			The UNLITHIFIED WACKESTONE contains abundant calcareous nannofossils, common sponge spicules, bioclasts, tunicate spicules, minor foraminifers, calcite, and dolomite, as well as traces of clay.
27	5							
28	6							
29	7							
30								
31								
32					— PAL			

CORE DESCRIPTIONS

VISUAL CORE DESCRIPTIONS, SITE 1131

Core Photo

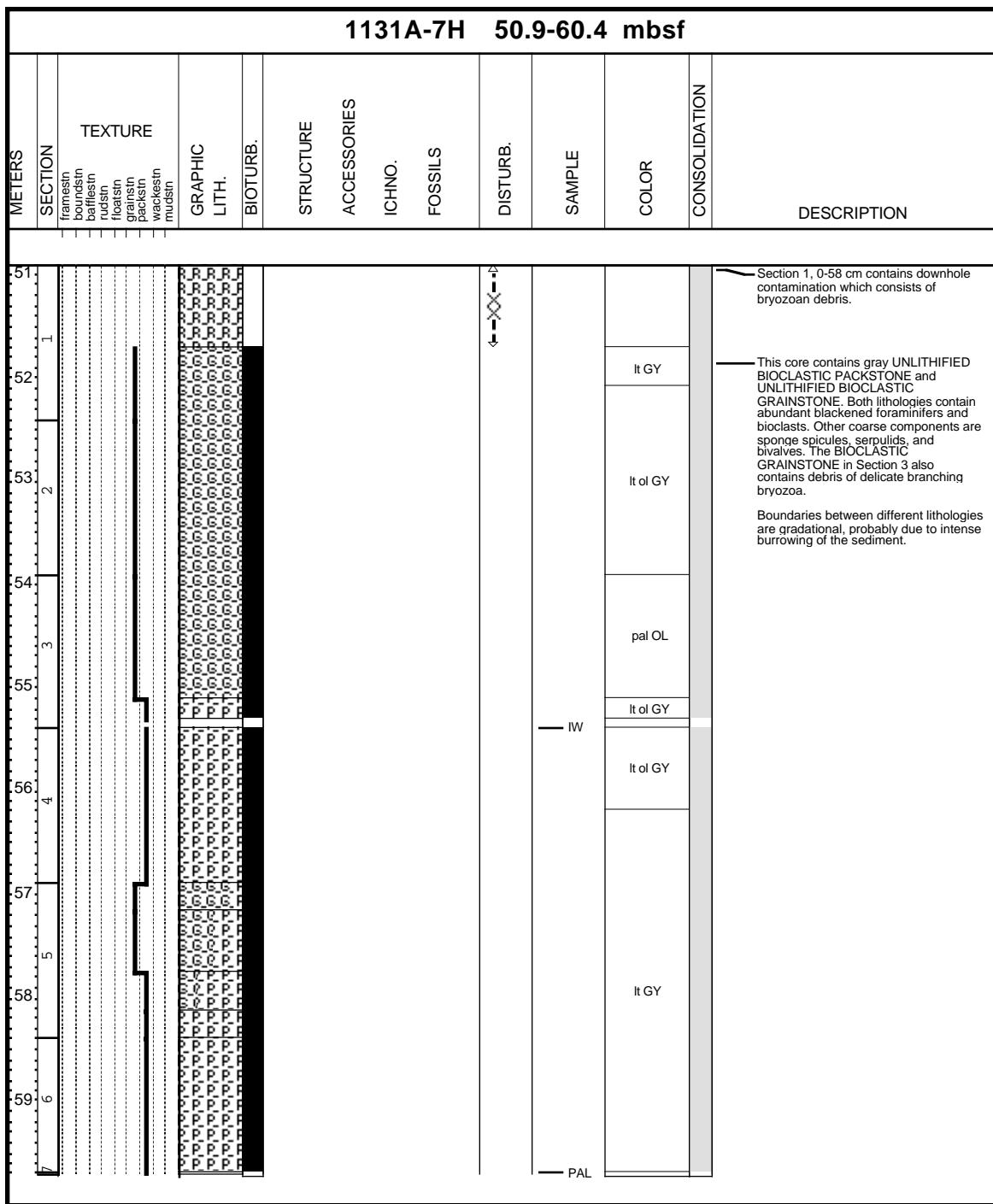
CORE DESCRIPTIONS

VISUAL CORE DESCRIPTIONS, SITE 1131

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VISUAL CORE DESCRIPTIONS, SITE 1131

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CORE DESCRIPTIONS
VISUAL CORE DESCRIPTIONS, SITE 1131

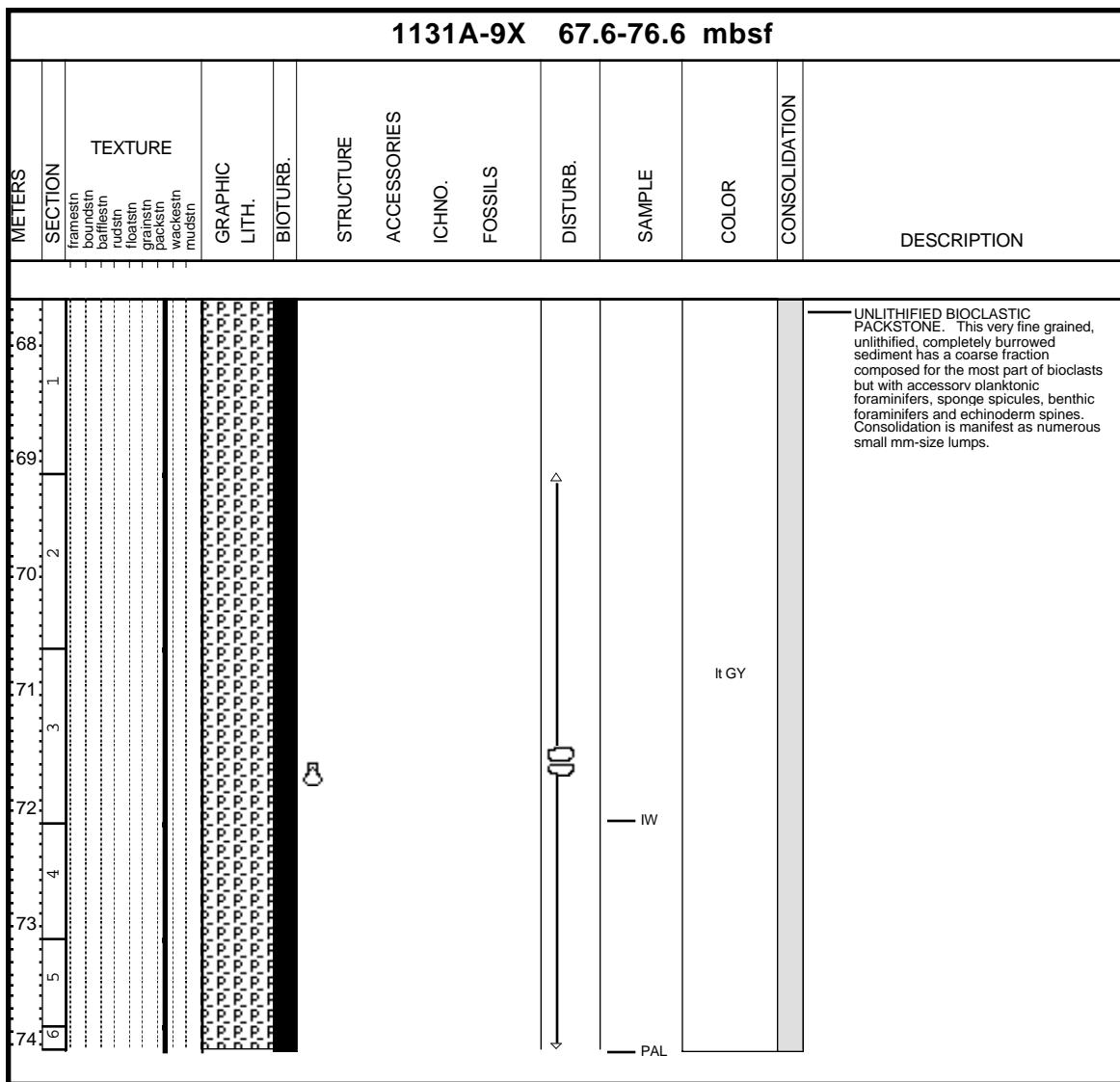
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		1131A-8X 60.4-67.6 mbsf											
METERS	SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	COLOR	CONSOLIDATION	DESCRIPTION
61	1										It ol GY		UNLITHIFIED BIOCLASTIC PACKSTONE with minor UNLITHIFIED BIOCLASTIC GRAINSTONE.
61	2										It GY		Packstones are unlithified and burrowed throughout. The very fine grained to fine grained particles are composed of, in addition to bioclasts, abundant sponge spicules, and lesser benthic foraminifers, ostracodes, tunicate spicules, echinoid spines and planktonic foraminifers. Grainstones also contain granule size bryozoans (delicate branching and flat robust branching), scaphopods and small gastropods.
62	3										It ol GY		
63	4										It GY		
64	5										It GY		
65									IW				
66									PAL		It GY		

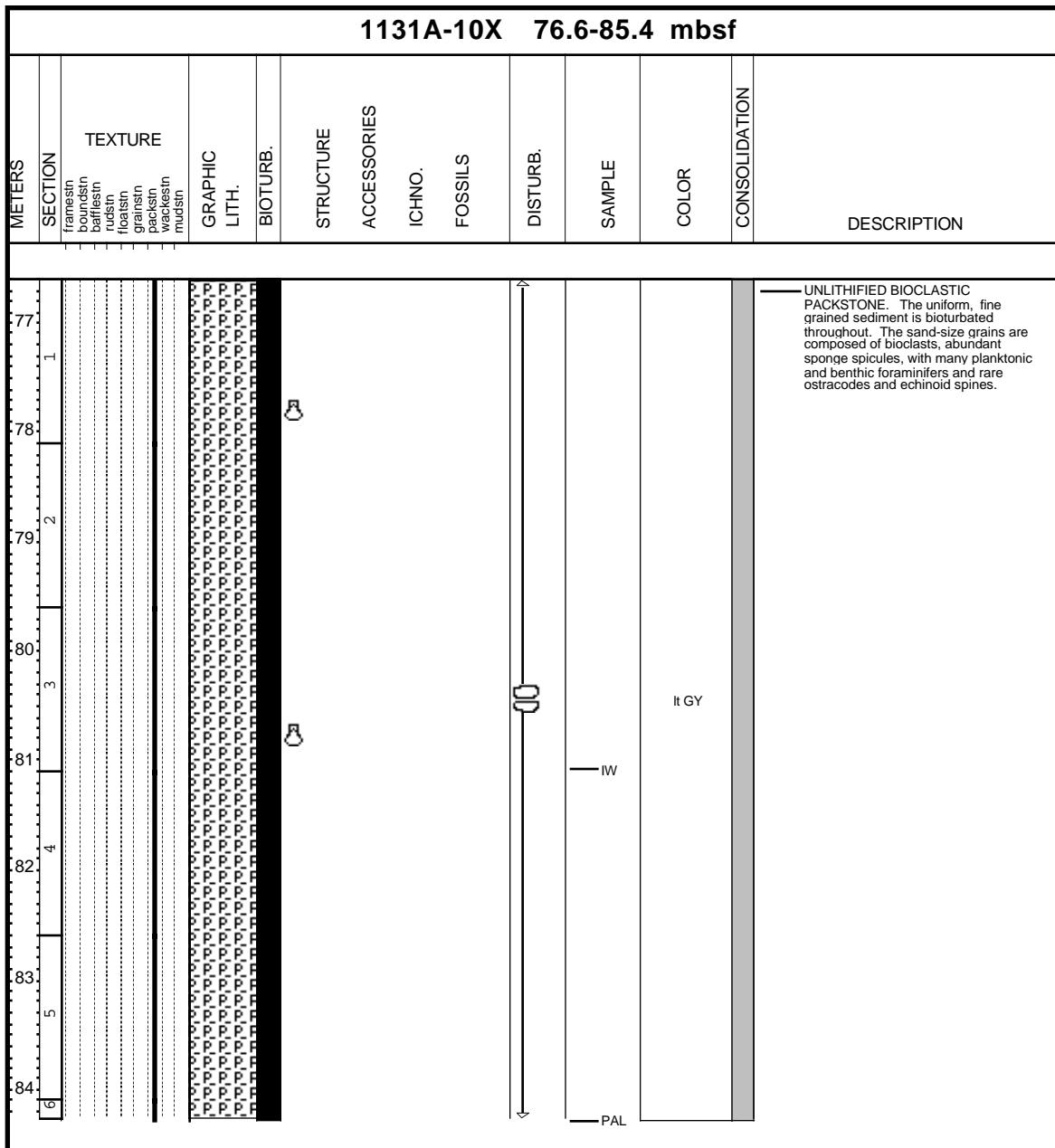
CORE DESCRIPTIONS
VISUAL CORE DESCRIPTIONS, SITE 1131

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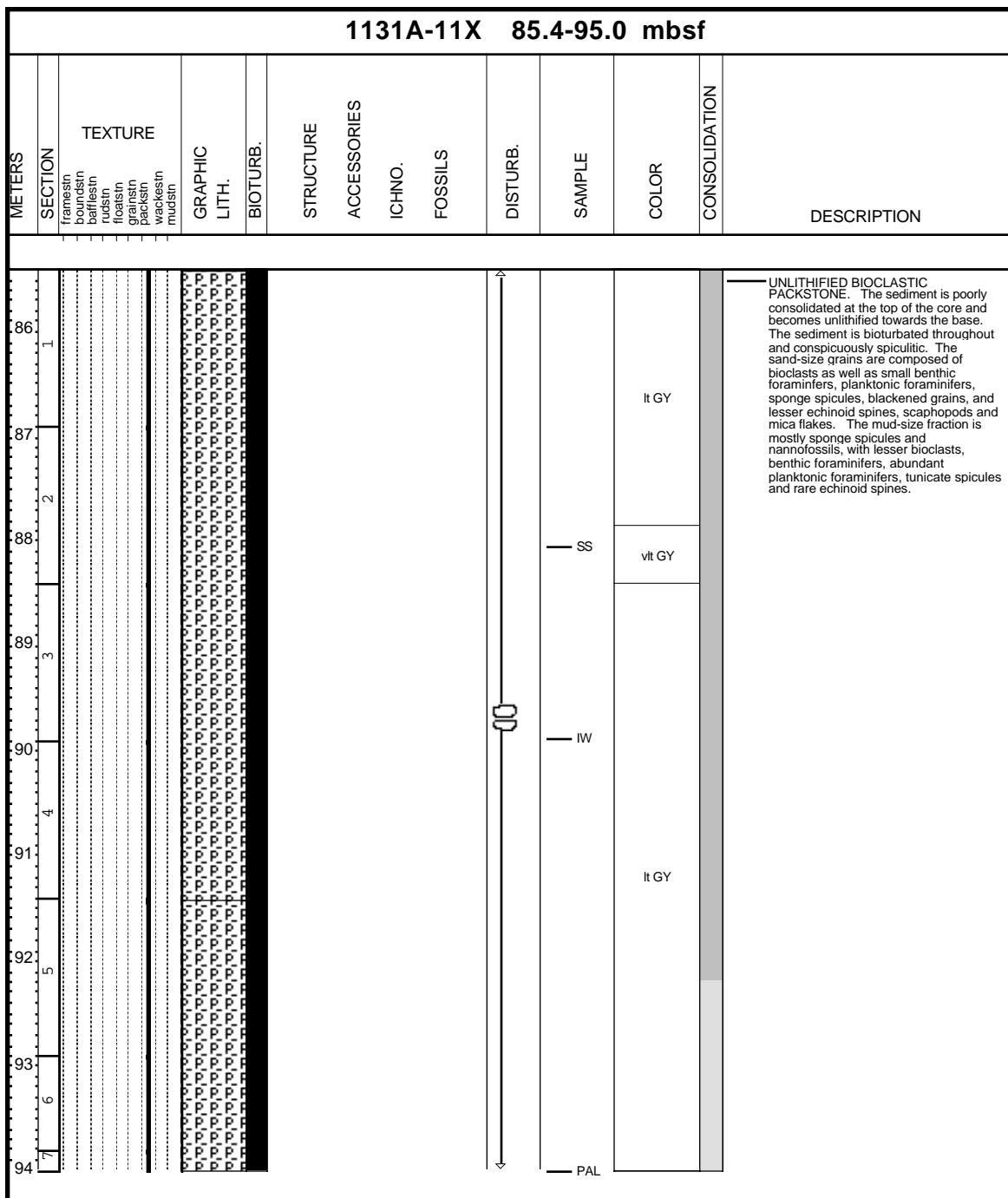
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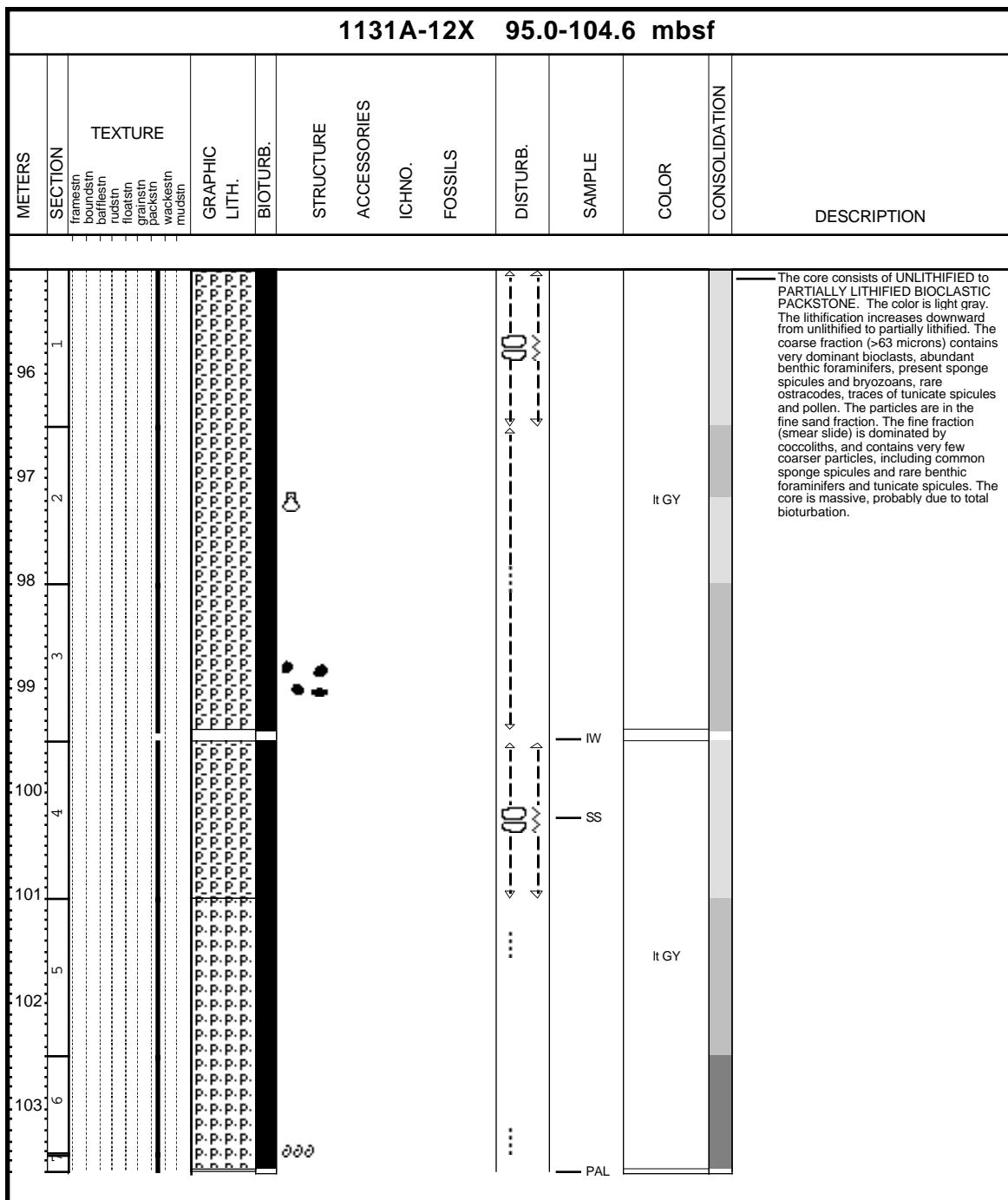
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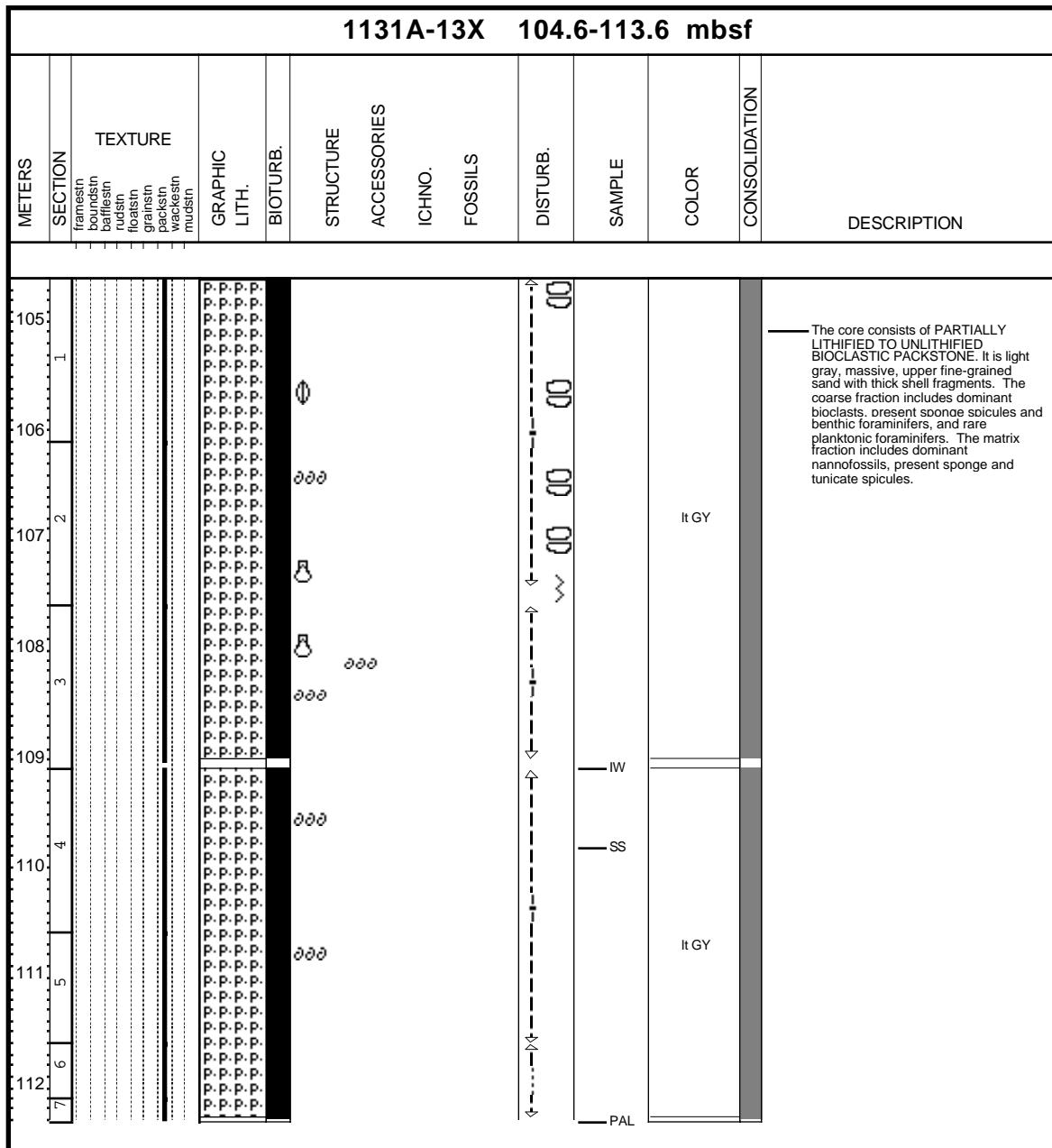
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1131A-16X 131.9-141.3 mbsf

METERS	SECTION							DESCRIPTION	
		TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.		FOSILS
framboidin bafflestone rudistin floatstone grainsin packstone wackestone mudstone									
132	1	P.P.P.P.		∅∅∅					The core consists of PARTIALLY LITHIFIED BIOClastic PACKSTONE. The color is light gray and light olive gray. The coarse fraction (>63 microns) contains dominant bioclasts, abundant benthic foraminifiers and sponge spicules, present echinoid spines, and traces of ostracodes. The grains are in the very fine to fine sand fraction. The core is massive, probably due to total bioturbation.
133	2	P.P.P.P.		∅∅∅					
134	3	P.P.P.P.		∅∅∅					
135	4	P.P.P.P.		∅∅∅					
136	5	P.P.P.P.		∅∅∅	∅				
137	6	P.P.P.P.		∅∅∅	∅				
138	7	P.P.P.P.		∅∅∅	∅				
139		P.P.P.P.		∅∅∅	∅				
140		P.P.P.P.		∅∅∅	∅				
141		P.P.P.P.		∅∅∅	∅				

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1131A-17X 141.3-150.6 mbsf										
METERS	SECTION	TEXTURE	GRAPHIC LITH. BIOTURB.	STRUCTURE ACCESSORIES ICHNO.	FOSSILS	DISTURB.	SAMPLE	COLOR	CONSOLIDATION	DESCRIPTION
142	1		P.P.P.P.	∅∅∅		↑	— SS			The core consists of massive and monotonous PARTIALLY LITHIFIED BIOLASTIC PACKSTONE. The color is light gray, and the grain size is fine to very fine sand-sized. The coarse fraction contains dominant bioclasts, common sponge spicules, rare benthic foraminifers, planktonic foraminifers and tunicate spicules, and traces of pollen and ostracodes. The matrix is composed of abundant sponge spicules, common nannofossils and bioclasts, and present benthic foraminifers and tunicate spicules.
143	2		P.P.P.P.	∅		↑				
144	3		P.P.P.P.			↑				
145	4		P.P.P.P.			↑				
146	5		P.P.P.P.			↑				
147	6		P.P.P.P.	G1		↑				
148	7		P.P.P.P.			↓				
149			P.P.P.P.				— PAL			

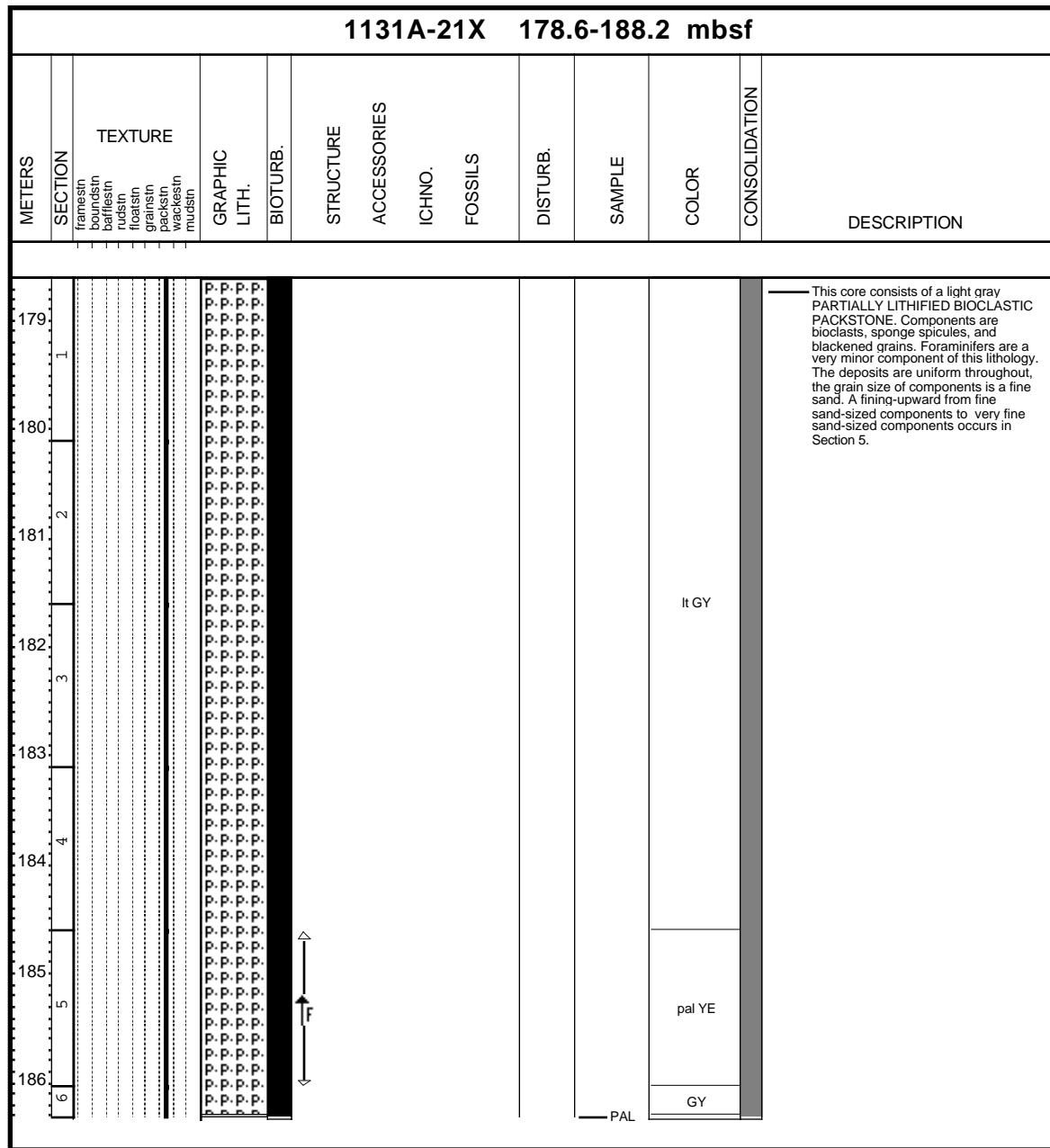
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		1131A-21X 178.6-188.2 mbsf											
METERS	SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	COLOR	CONSOLIDATION	DESCRIPTION
179	1		P.P.P.P.										This core consists of a light gray PARTIALLY LITHIFIED BIOCLASTIC PACKSTONE. Components are bioclasts, sponge spicules, and blackened grains. Foraminifers are a very minor component of this lithology. The deposits are uniform throughout, the grain size of components is a fine sand. A fining-upward from fine sand-sized components to very fine sand-sized components occurs in Section 5.
180	2		P.P.P.P.										
181	3		P.P.P.P.										
182	4		P.P.P.P.										
183	5		P.P.P.P.										
184	6		P.P.P.P.										
185													
186													



Core Photo

		1131A-22X 188.2-197.6 mbsf										
METERS	SECTION	TEXTURE		STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	COLOR	CONSOLIDATION	DESCRIPTION
		frameston	bouddin									
		bafflestn	rudstn									
		lloastn	grains									
		packstn	wackestn									
		mudstn										
189	1	P.P.P.P.										This core consists of a gray PARTIALLY LITHIFIED BIOCLASTIC PACKSTONE. The coarse fraction of the sediment consists of abundant bioclasts, common sponge spicules, benthic foraminifers, as well as rare planktonic foraminifers and blackened grains. The grain size of the components is a fine sand.
190	2	P.P.P.P.										
191		P.P.P.P.										
192	3	P.P.P.P.										
193	4	P.P.P.P.										
194	5	P.P.P.P.										

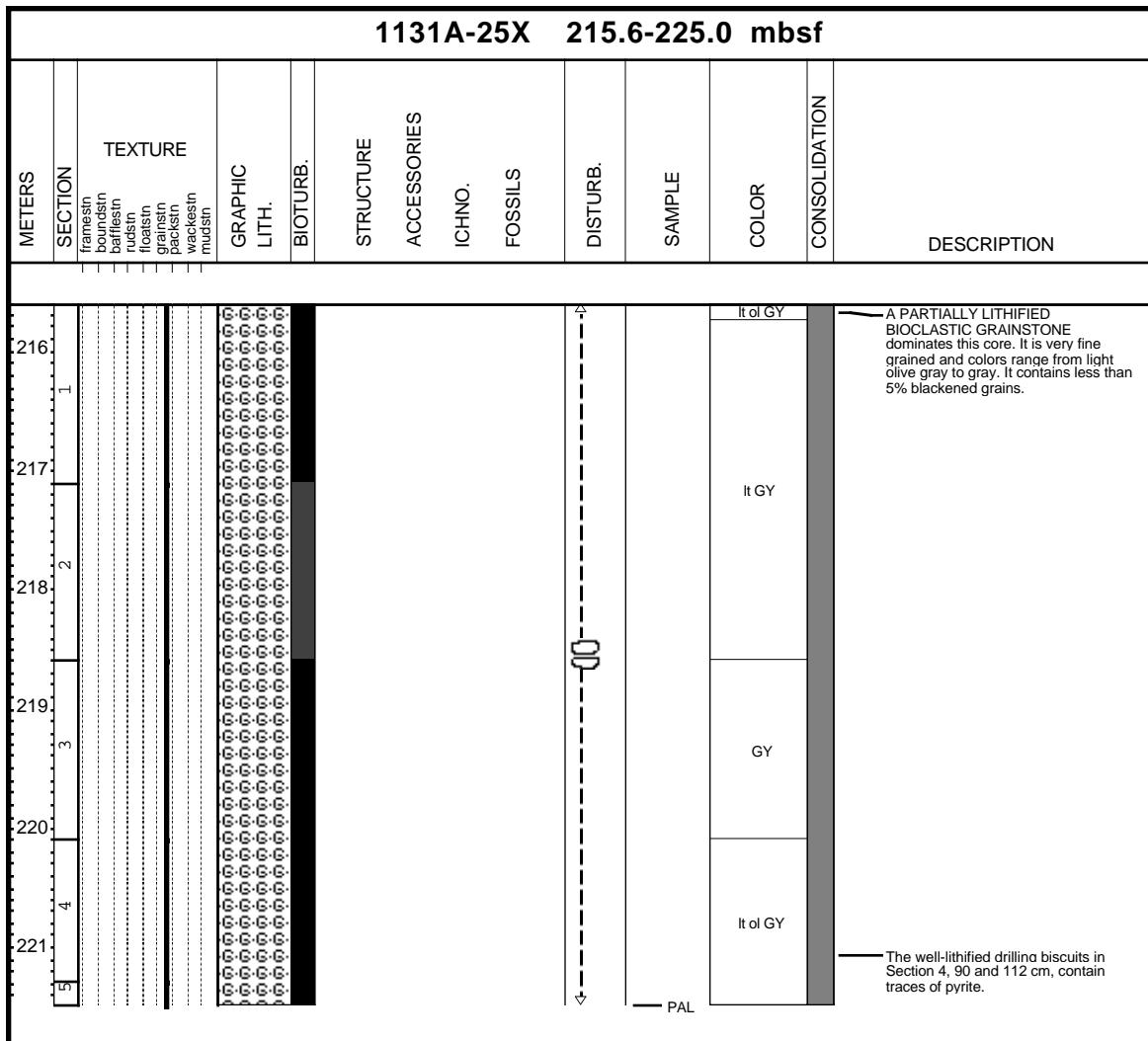
Core Photo

		1131A-23X		197.6-206.6 mbsf	
METERS	SECTION	TEXTURE	STRUCTURE	ACCESSORIES	DESCRIPTION
198.00	frmsdn bndrsdn bafflrsdn rudlsdn floatsn grainsdn packsn wackesdn mudsn	GRAPHIC LITH. BIOTURB.	ICHNO.	FOSSILS	DISTURB.
198.50					SAMPLE
199.00					COLOR
199.50					CONSOLIDATION
200.00					
200.50					
201.00					
201.50					
202.00					
202.50					
203.00					
203.50					
204.00					

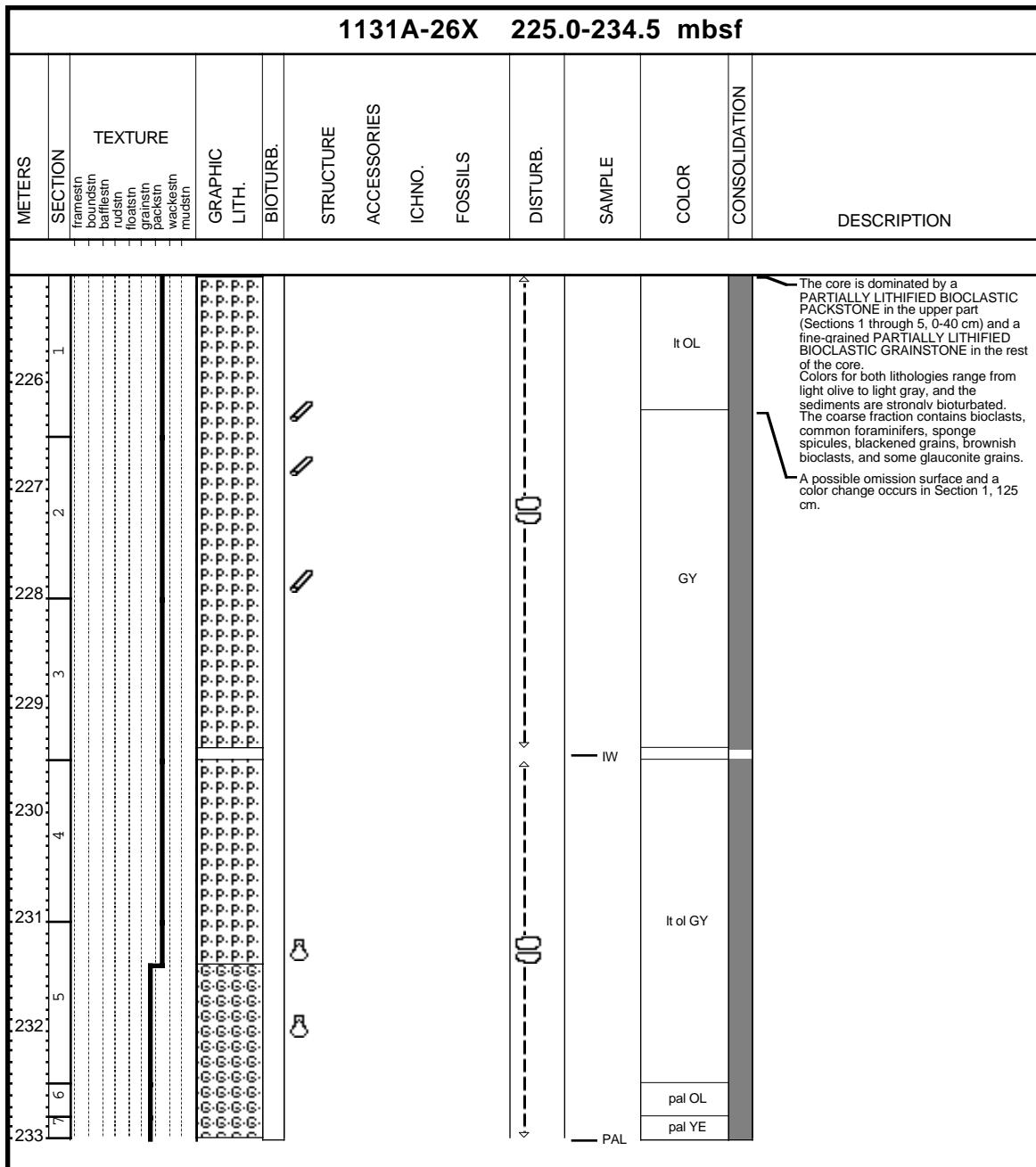
The core is dominated by a light gray to gray PARTIALLY LITHIFIED BIOCLASTIC PACKSTONE. Components are fine sand-sized. The coarse fraction contains dominantly bioclasts, common sponge spicules, some blackened grains, and very small benthic foraminifers. It is strongly bioturbated throughout.

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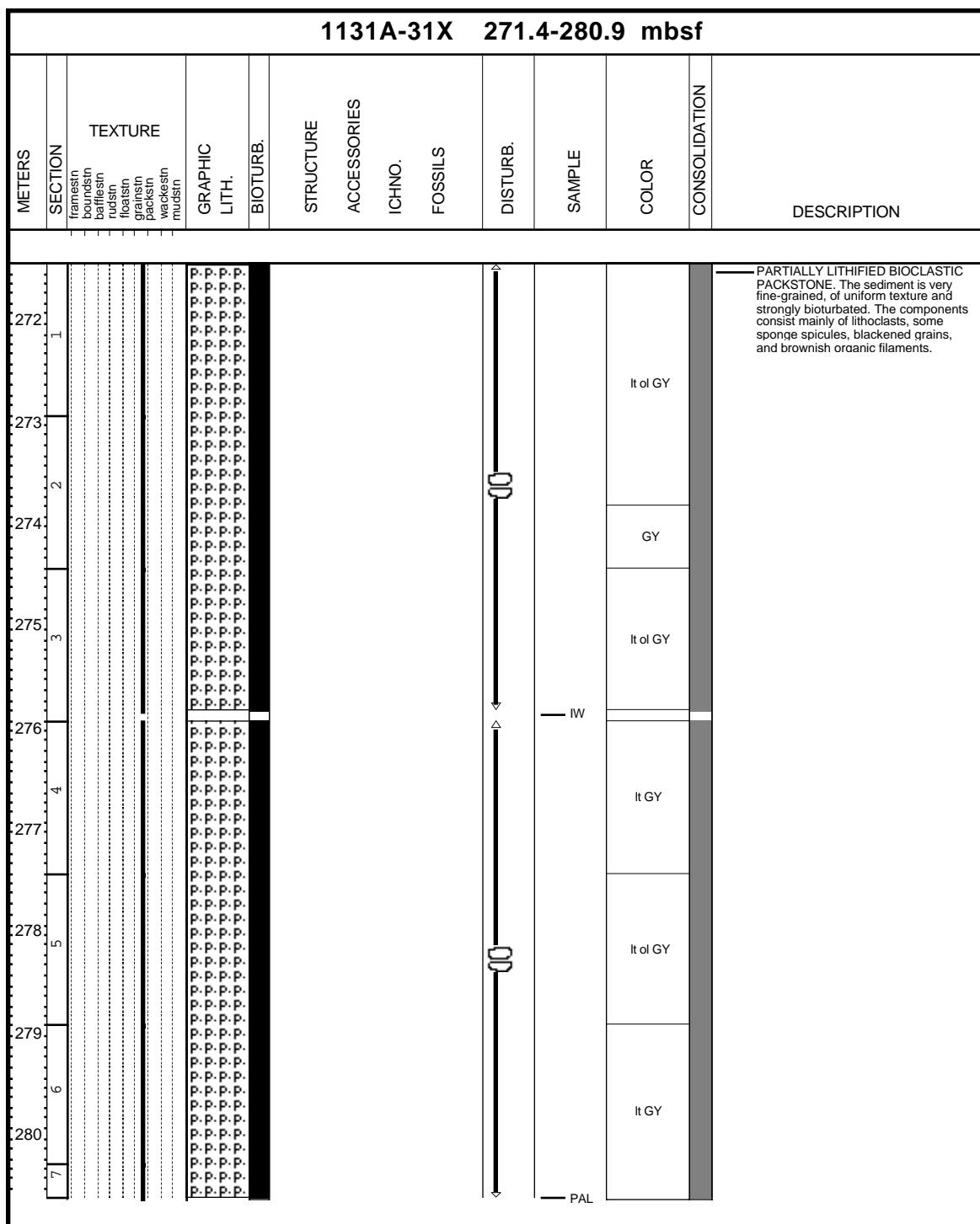
1131A-28X 243.5-252.5 mbsf											
METERS	SECTION	TEXTURE	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	COLOR	CONSOLIDATION	DESCRIPTION
244	1	P.P.P.P.									PARTIALLY LITHIFIED BIOCLASTIC PACKSTONE and BIOCLASTIC GRAINSTONE. The sediment is very fine grained to fine grained, thoroughly bioturbated with a few visible discrete burrows, of uniform texture and composition and moderately lithified. Packstone is generally poorly sorted and very fine sand size, while grainstone is well sorted and of fine sand size. The contact between the two lithologies is a sharp ?firmground at 140 cm in section 4.
245	2	P.P.P.P.									
246	3	P.P.P.P.									
247	4	P.P.P.P.									
248	5	G.G.G.G.									
249											
250											

1131A-29X TO PALEO

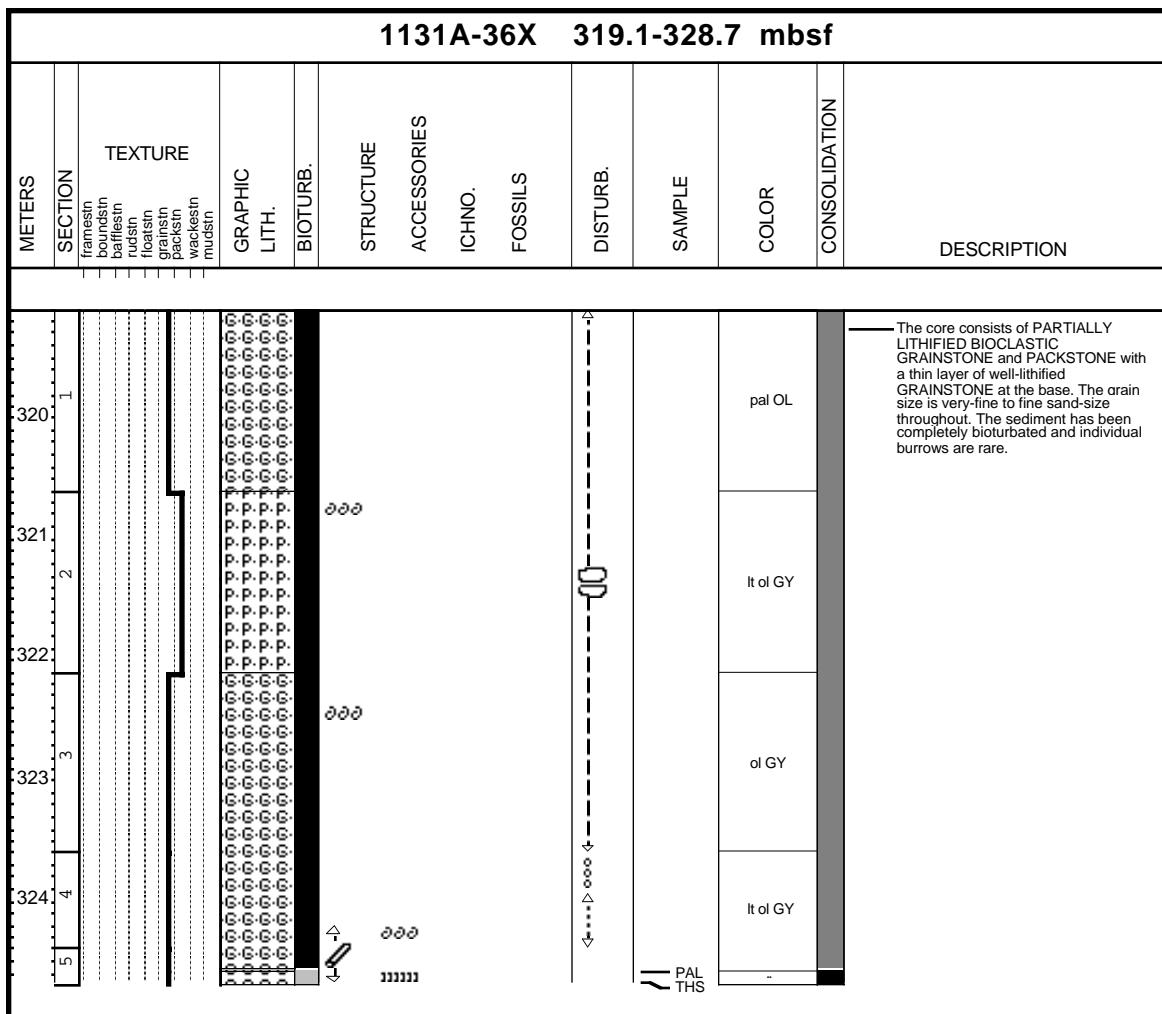
Core Photo

1131A-30X 262.0-271.4 mbsf										
METERS	SECTION	TEXTURE	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	COLOR	CONSOLIDATION	DESCRIPTION
263	1 2 3	frameston boulin buffetin rudstr floatstr grainsin packstrin wackestrin mudstrin	GRAPHIC LITH. BIOTURB.				↓ 10	It GY It ol GY		BIOCLASTIC PACKSTONE. The sediment is moderately consolidated, very fine-grained, of uniform composition and texture, and thoroughly bioturbated. The sand grains are mostly bioclasts but include some blackened skeletal particles.

Core Photo



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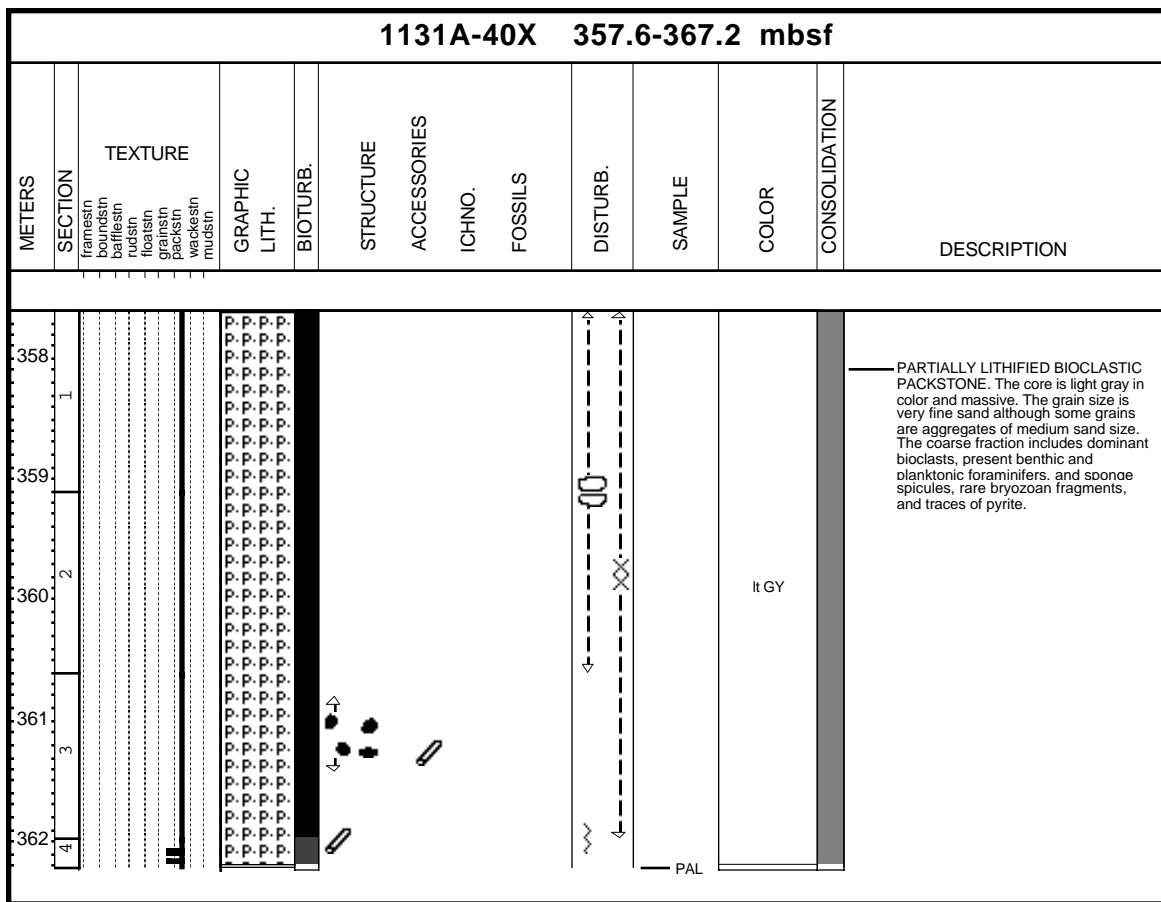


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1131A-43X 386.4-395.9 mbsf										
METERS	SECTION	TEXTURE	STRUCTURE	ACCESSORIES	FOSSILS	DISTURB.	SAMPLE	COLOR	CONSOLIDATION	DESCRIPTION
387	1	framestone benthic rudstone floatstone grainstone packstone mudstone	GRAPHIC LITH. BIOTURB.	ICHNO.						The core consists of PARTIALLY LITHIFIED BIOCLASTIC PACKSTONE with an interval showing grainstone texture. The color is light gray, and the grain size is very fine to fine sand-sized. The coarse fraction contains dominant bioclasts, present planktonic and benthic foraminifers, rare pollen, and traces of sponge spicules and echinoid spines. The interval of PARTIALLY LITHIFIED BIOCLASTIC GRAINSTONE occurs in Section 2, 0-40 cm.
388	2							lt GY		The core is bioturbated, and some burrows are observed in Section 3, 70-80 cm.
389	3									
390	4							lt GY		

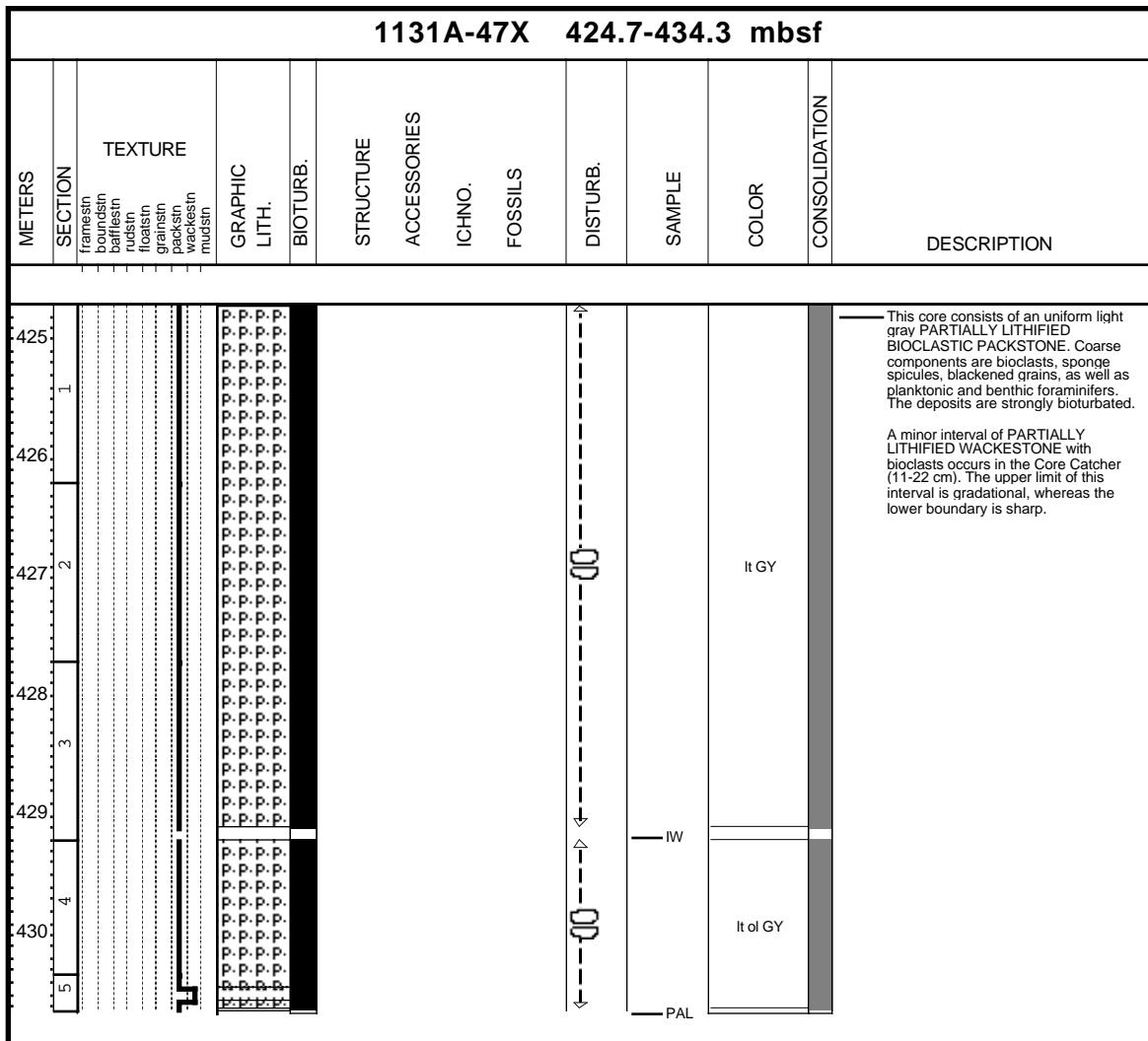
Core Photo

1131A-44X 395.9-405.5 mbsf													
METERS	SECTION	TEXTURE	GRAPHIC LITH.	BIO TURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	COLOR	CONSOLIDATION	DESCRIPTION
396.1			P.P.P.P.		X					It of GY			The core consists of PARTIALLY LITHIFIED BIOCLASTIC PACKSTONE. The color is light olive gray. The coarse fraction (>63 microns) contains dominant bioclasts and present benthic and planktonic foraminifers. The sediment is heavily bioturbated.

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Core Photo

1131A-52X 472.8-482.5 mbsf											
METERS	SECTION	TEXTURE	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	COLOR	CONSOLIDATION	DESCRIPTION
473.1	2	P.P.P.P. P.P.P.P. P.P.P.P. P.P.P.P.					↓↑		It GY		This core consists of a light gray PARTIALLY LITHIFIED BIOCLASTIC PACKSTONE. Major components are bioclasts, blackened grains, and some foraminifers. Grain size of bioclasts is a fine sand.

Core Photo

Core Photo

Core Photo

Core Photo

1131A-56X 511.3-520.9 mbsf									
METERS	SECTION	TEXTURE	STRUCTURE	ACCESSORIES	FOSSILS	DISTURB.	COLOR	CONSOLIDATION	DESCRIPTION
512.0	1 2	frameisin boundsin buffetin rudstr. floatstr. grainsin packsin wackesin mudsin	GRAPHIC LITH. BIOTURB.		ICHNO.		It ol GY It GY		This core consists of an uniform light gray PARTIALLY LITHIFIED BIOCLASTIC PACKSTONE. Coarse components are bioclasts, blackened grains, pyritized grains, minor foraminifers including large miliolids, and minor glauconite grains. Grain size of components is silt to very fine sand-sized. The deposits are strongly bioturbated throughout. Bivalve molds are found at the base of Section 2.

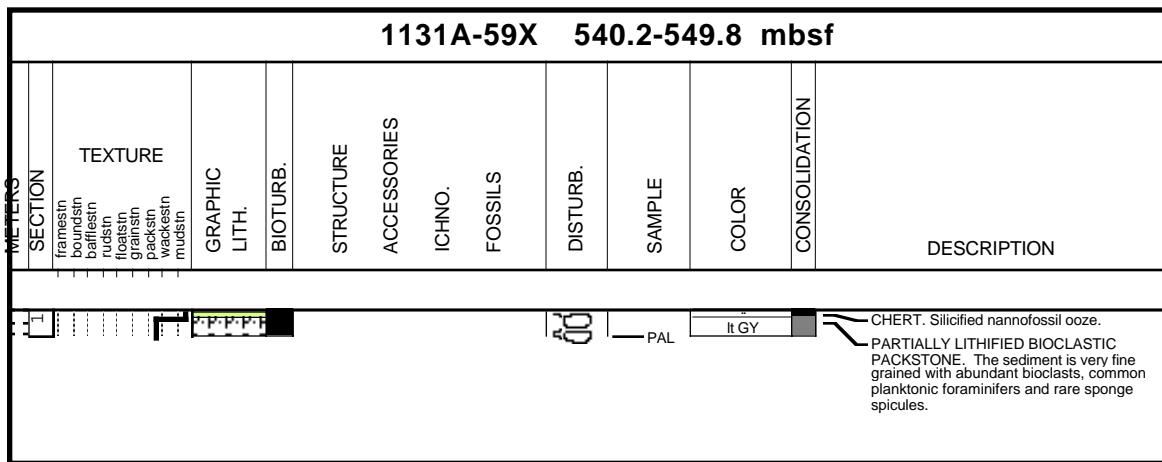
Core Photo

Core Photo

1131A-58X 530.6-540.2 mbsf											
METERS	SECTION	TEXTURE	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	COLOR	CONSOLIDATION	DESCRIPTION
531	1	frame bound bioturb rudist float grain pack wacke mud	GRAPHIC LITH. BIOTURB.				↓		It ol GY		This core consists of a uniform PARTIALLY LITHIFIED BIOCLASTIC PACKSTONE. Coarse components are bioclasts, blackened grains, minor foraminifera and rare pyrite grains. Grain size of components is fine sand-sized. The deposits are strongly bioturbated throughout. Material at the base of the core is well cemented.
532	2						↓	PAL			

Core Photo

1131A-59X 540.2-549.8 mbsf												
METERS	SECTION	TEXTURE	GRAPHIC	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	COLOR	CONSOLIDATION	DESCRIPTION



CHERT. Silicified nannofossil ooze.
PARTIALLY LITHIFIED BIOCLASTIC
PACKSTONE. The sediment is very fine
grained with abundant bioclasts, common
planktonic foraminifers and rare sponge
spicules.

1131A-60X TO PALEO

1131A-61X NO RECOVERY

1131A-62X TO PALEO

1131A-63X TO PALEO

1131A-64X TO PALEO

Core Photo

		1131A-65X 597.6-607.3 mbsf									
WITNESS	SECTION	TEXTURE	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	COLOR	CONSOLIDATION	DESCRIPTION
		framestone boundstone bafflestone rudistin floatstone grainstone packstone wackestone mudstone	GRAPHIC LITH. BIOTURB.								
1		[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	This core consists of a uniform PARTIALLY LITHIFIED BIOCLASTIC GRAINSTONE. Coarse components are bioclasts, blackened grains, foraminifers, and glauconite grains. Grain size of components is very fine sand-sized. The deposits are strongly bioturbated throughout.
								PAL			

Core Photo

METERS		1131A-66X 607.3-616.9 mbsf								
SECTION	TEXTURE	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	COLOR	CONSOLIDATION	DESCRIPTION
	frameston boundstone bafflestone rudstone grainstone packstone wackestone mudstone	GRAPHIC LITH. BIOTURB.				PAL				This core consists of a uniform PARTIALLY LITHIFIED BIOCLASTIC GRAINSTONE. Coarse components are bioclasts, blackened grains and glauconite grains. Grain size of components is fine sand-sized. The deposits are strongly bioturbated throughout.

Core Photo

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1131B-2H 8.4-17.9 mbsf

METERS	SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	COLOR	CONSOLIDATION	DESCRIPTION	
													frambisin	boulardin
9														
10														
11														
12														
13														
14														
15														
16														
17														
8														
7														
6														
5														
4														
3														
2														
1														
0														

The core consists of UNLITHIFIED BRYOZOAN FLOATSTONE and RUDSTONE, and UNLITHIFIED BIOCLASTIC WACKESTONE. The alternation is rapid, suggesting a complex juxtaposition of lithologies. The color is light gray. The UNLITHIFIED BRYOZOAN FLOATSTONE and RUDSTONE contain small forms of bryozoans, commonly flat robust branching, delicate branching, and small nodular encrusting forms. The sand-sized fraction includes common to abundant sponge spicules, common benthic foraminifers, common to present planktonic foraminifers, ostracodes and articulated zooidal bryozoans. The coarse fraction of the UNLITHIFIED BIOCLASTIC WACKESTONE is silt-sized and includes fecal pellets, bioclasts, articulated branching bryozoans, benthic foraminifers, sponge spicules and ostracodes. The matrix consists of abundant bioclasts and nannofossils, common sponges and tunicate spicules, present benthic and planktonic foraminifers and rare quartz grains.

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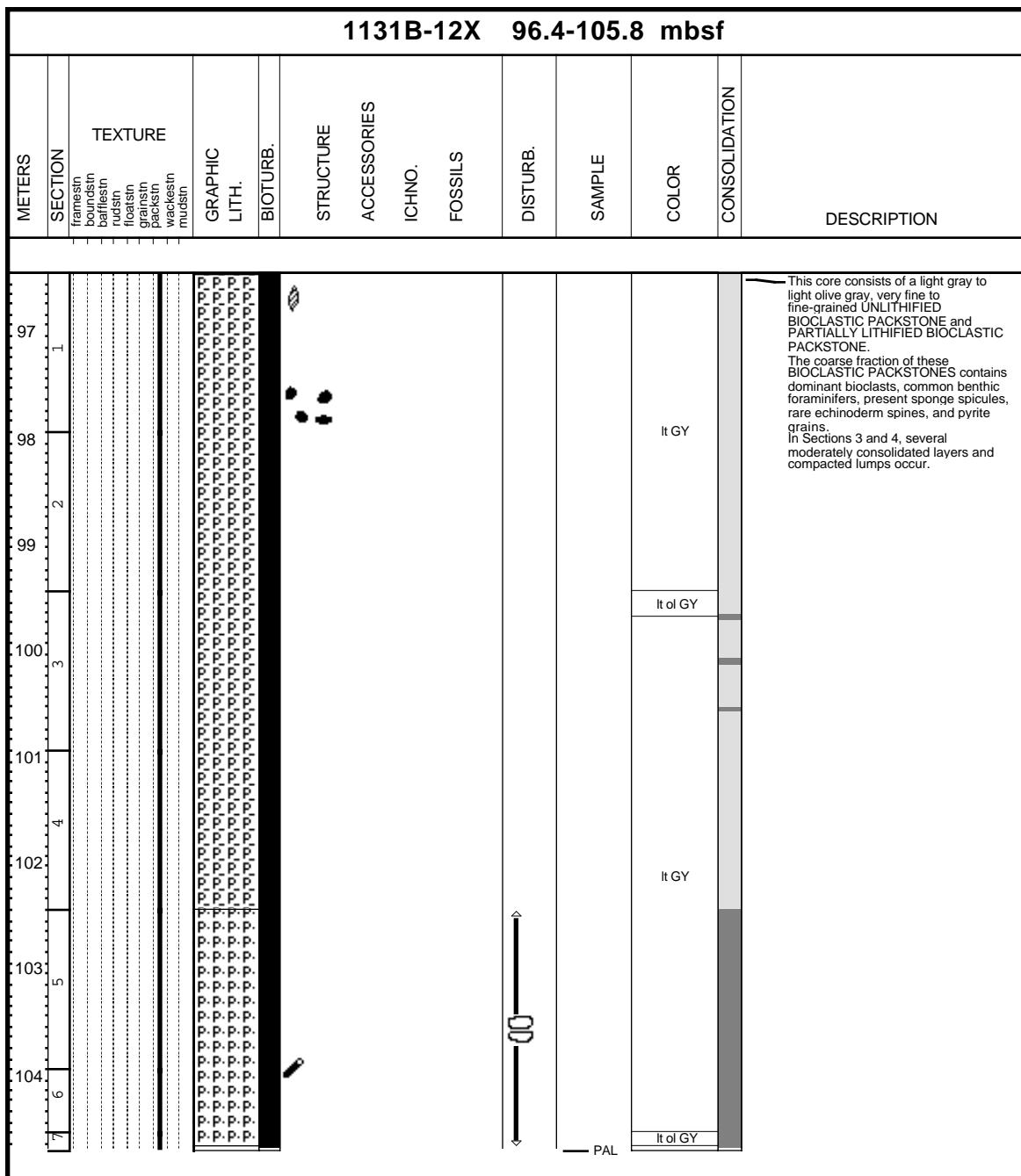
1131B-8X 65.4-69.1 mbsf							
METERS	SECTION	TEXTURE	GRAPHIC LITH.	STRUCTURE	ACCESSORIES	FOSSILS	CONSOLIDATION
66.0	1						
66.5							
67.0	2						
67.5							
68.0							
68.5	3						
69.0							
69.5	4						
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							

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**CORE DESCRIPTIONS
SMEAR SLIDES, SITE 1131**