

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHIHOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
1	1								PAL SS SS SS SS PAL	vpl BR vpl BR .. ..	NANNOFOSSIL FORAMINIFER OOZE FORAMINIFER OOZE WITH NANNOFOSSILS, and FORAMINIFER OOZE WITH CLAY  Major lithology: very pale brown (10YR 8/2) NANNOFOSSIL FORAMINIFER OOZE. Several intervals include streaks of the brownish minor lithologies (Section 1, 53-61 cm and Section 1, 37-40 cm).  Minor lithologies: Yellow (10YR 8/8) FORAMINIFER OOZE WITH NANNOFOSSILS Light brownish gray (10YR 6/2) FORAMINIFER OOZE WITH CLAY Very dark brown (10YR 2/1) FORAMINIFER OOZE WITH NANNOFOSSILS AND FE-OXIDE There are hardgrounds in Section 1 at: 1, 4, 19.5, 23, 28, and 54 cm. There is a firmground at Section 1, 43 cm. SM Section 1, 50 cm: FORAMINIFER OOZE WITH NANNOFOSSILS SM Section 1, 53 cm: FORAMINIFER OOZE WITH CLAY SM Section 1, 54 cm: FORAMINIFER OOZE WITH NANNOFOSSILS AND FE-OXIDE SD Section 1, 64 cm: NANNOFOSSILS FORAMINIFER OOZE  Hard, flat piece with a hardground on upper surface and burrowing around the outside (not in site).

SITE 1052 HOLE A CORE 2X

CORED 3.5-13.2 mbsf

1052A-2X

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0	1								Pho SS Pho Pho SS	pal YE YE	NANNOFOSSIL OOZE WITH CLAY, and NANNOFOSSIL OOZE WITH FORAMINIFERS AND CARBONATE GRAINS
2	2			Py							Light gray (10YR 7/2) homogeneous CLAYEY OOZE WITH FORAMINIFERS AND FISH DEBRIS occurs in Section 1, 0-12 cm. Sharp contact with pale yellow NANNOFOSSIL OOZE WITH CLAY.
3	3			Py							Pale yellow carbonate nodules with FeMn firmgrounds occur in Section 1 at: 12-16 cm 20-23 cm 34-37 cm 63-70 cm 74-80 cm
4	4			Py							Section 1, 108 and 120 cm: thin dark layers with limonite(?).
5	5			Py				late Eocene	IW SS	pal YE	Section 2, 128 cm: Bioturbated contact between pale yellow (2.5Y 8/2) NANNOFOSSIL OOZE WITH CLAY to slightly paler yellow (2.5Y 8/2) NANNOFOSSIL OOZE WITH FORAMINIFERS AND CARBONATE GRAINS.
6	6										Flecks of pyrite occur throughout Section 3 and 4.
7	7										7-8 cm: pale gray ALTERED ASH, 8.07 mbsf.
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METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
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1									PAL		<p>NANNOFOSSIL OOZE</p> <p>Monotonous almost structureless NANNOFOSSIL OOZE of very pale yellowish white (5Y 8/2) color. Slightly darker intervals show vague burrow mottling. Two ASH layers occur. Some olive smectite blebs.</p>
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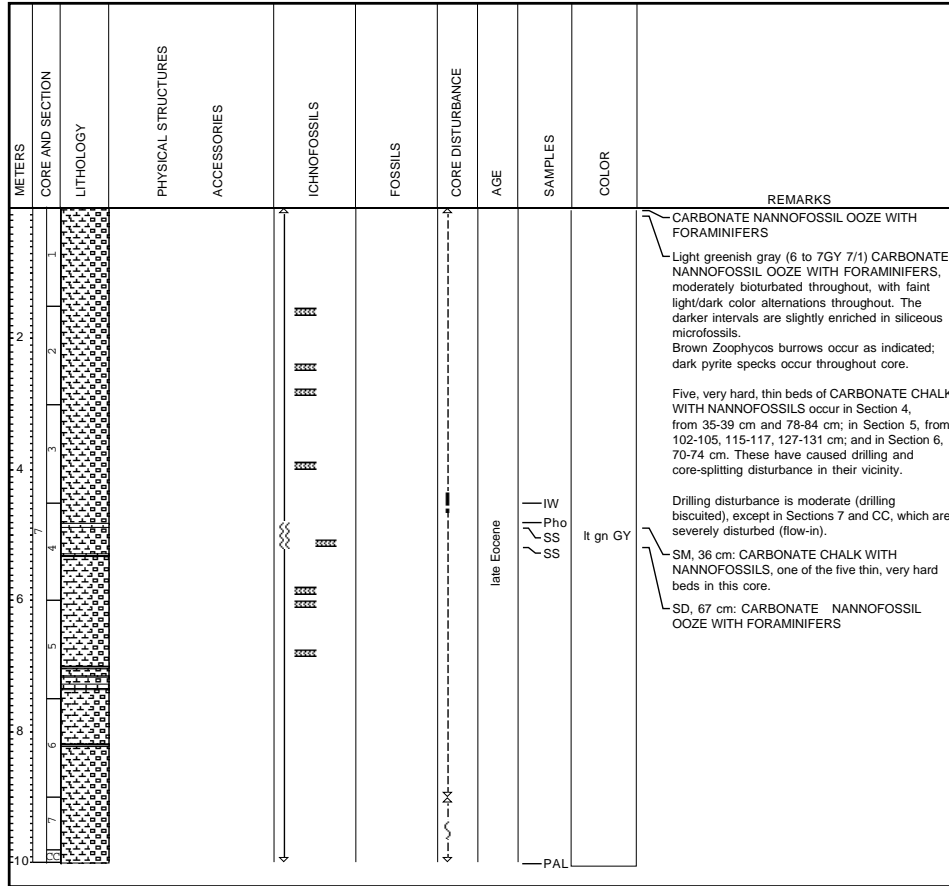


METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0											<p>SILICEOUS NANNOFOSSIL OOZE and NANNOFOSSIL OOZE</p> <p>Alternation of light greenish gray (10GY 7/1) SILICEOUS NANNOFOSSIL OOZE and lighter light greenish gray (10 GY 8/1) NANNOFOSSIL OOZE. Color changes are gradational. Entire core is strongly bioturbated, as inferred by the lack of bedding. Larger burrows are filled with grayish to olive brown OOZE. Faint dark subhorizontal layers (burrows?) occur from Section 2, 108 cm to the base of the core. A silty gray VITRIC ASH layer occurs in Section 5. The contact to downhole lithology is very sharp. Black Mn-oxide or pyrite specks throughout.</p> <p>VITRIC ASH layer (38.79 mbsf) with sharp contact to underlying lithology. Gradational contact uphole probably bioturbation-induced.</p>
1									lt gn GY		
2								SS	vt gn GY		
3									lt gn GY		
4								IW			
5								SS	vt gn GY		
6									lt gn GY		
7								SS	vt gn GY		
8									lt gn GY		
9								PAL			

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0											<p>NANNOFOSSIL OOZE WITH SILICEOUS MICROFOSSILS and NANNOFOSSIL OOZE</p> <p>Light greenish gray (5G 7/1) NANNOFOSSIL OOZE WITH SILICEOUS MICROFOSSILS, with interbeds of minor very light greenish gray (3G 8/1) NANNOFOSSIL OOZE; contacts gradational. Bioturbation slight to moderate, with burrows either piped from overlying, color-contrasting sediment, filled with brown, more siliceous sediment, or replaced by black framboidal pyrite. Numerous dark green bands, especially in Section 4, 40-43 cm, appear to be diagenetic. Drilling disturbance slight to none.</p>
1									lt gn GY		
2									vlt gn GY		
3									lt gn GY	SS SS IW	
4									vlt gn GY		
5											lt gn GY
6											SS
7											SS
8											PAL

late Eocene

- SM, 62 cm: VITRIC ASH, 49.8 mbsf
- 88 cm: conic OPAL nodule, 1 cm x 5 mm
- SM: 137 cm: brown burrow preserves more siliceous microfossils, particularly diatoms.



METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0											
1									vpl GN		NANNOFOSSIL OOZE and NANNOFOSSIL OOZE WITH SILICEOUS MICROFOSSILS
								WH		Very vague mottles throughout with isolated, dark subhorizontal burrows	
2									vpl GN		Very pale green (5G 8/1) to almost white (N9 with a green tinge) alternating on a meter-scale but transitions are extremely gradational, green intervals more siliceous
								SS	WH	Disseminated to small patchy concentrations of pyrite throughout	
3									vpl GN		Effectively no drilling disturbance except around chalk in Section 2
								WH			
4									vpl GN		Two pieces of white NANNOFOSSIL CHALK at top of 40 cm disturbed interval
								SS	WH		
5									vpl GN		95-97 cm- bioturbated ASH, (67.65 mbsf)
								SS	WH		
6									vpl GN		
7									WH		
8									vpl GN		
									PAL		



METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0											
1				///							<p>SILICEOUS NANNOFOSSIL OOZE</p> <p>Light greenish gray (9GY 7/1) SILICEOUS NANNOFOSSIL OOZE, slightly to moderately bioturbated. Subtle color alternations with highly gradational contacts on approximately a 1 m scale. Pyrite flecks scattered throughout, also lining and replacing burrows.</p> <p>Zoophycos(?) burrows with faint spreiten are generally brown; other burrows are either brown, black pyritic, or piped color-contrasting sediment.</p> <p>Horizontal dark green bands, apparently diagenetic, occur as indicated.</p> <p>SD: 53 cm SILICEOUS NANNOFOSSIL OOZE</p> <p>CC entirely to Paleo Lab</p>
2				///					lt gn GY		
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4				///					gn GY		
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METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS	
0	1										<p>NANNOFOSSIL OOZE WITH SPICULES</p> <p>Very pale green (10GY 8/1) NANNOFOSSIL OOZE WITH SPICULES. Pyrite specks, streaks, and blebs throughout core.</p> <p>Section 5, 101-108 cm: ASH layer with bioturbated top (96.2 mbsf).</p>	
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								middle Eocene		vpl GN		
									SS			
									SS			
									PAL			

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0	1										<p>NANNOFOSSIL OOZE WITH FORAMINIFER, CARBONATE GRAINS AND SPONGE SPICULES</p> <p>Entire core consists of monotonous, structureless, light greenish gray (10GY 8/1) NANNOFOSSIL OOZE WITH FORAMINIFERS, CARBONATE GRAINS AND SPONGE SPICULES. Dark pyrite (?) specks occur throughout.</p> <p>Sect. 4, 16-17 cm: echinoderm spine</p> <p>Sect. 6, 99-102 cm: oblique, dark lamina or burrow consists of SILICEOUS NANNOFOSSIL OOZE WITH FORAMINIFERS AND CARBONATE GRAINS, enriched in sponge spicules.</p> <p>CC entirely to Paleo Lab</p>
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MEETERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHNFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0	1							middleEocene	SS	vpl GN	SILICEOUS NANNOFOSSIL OOZE WITH FORAMINIFERS Very pale green (10GY 8/1) homogeneous sediment with scattered pyrite flecks.
1	2										
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3	4										
4	5										
5	6										
6	7								PAL		

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES ACCESSORIES	ICHTHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
							<p>middle Eocene</p>	<p>SS</p> <p>PAL</p>	<p>lt gn GY</p>	<p>NANNOFOSSIL OOZE WITH SPICULES</p> <p>Light greenish gray (10G 8/1), homogeneous and generally structureless. Flecks of pyrite and occasional blebs of glauconite scattered throughout.</p> <p>Very faint, pale brown layer--no significant change from dominant lithology.</p>

SITE 1052 HOLE A CORE 15H

CORED 127.2-129.7 mbsf

1052A-15H

1052A-16X

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTNOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0 1 2 3	1 2							middle Eocene	SS	GN	<p>NANNOFOSSIL OOZE WITH SPONGE SPICULES</p> <p>Homogeneous very pale green (10GY 8/1) NANNOFOSSIL OOZE WITH SPONGE SPICULES. The core is soupy from 0 to 40 cm and slightly disturbed downcore. Some pyrite blebs throughout core.</p>

SITE 1052 HOLE A CORE 16X

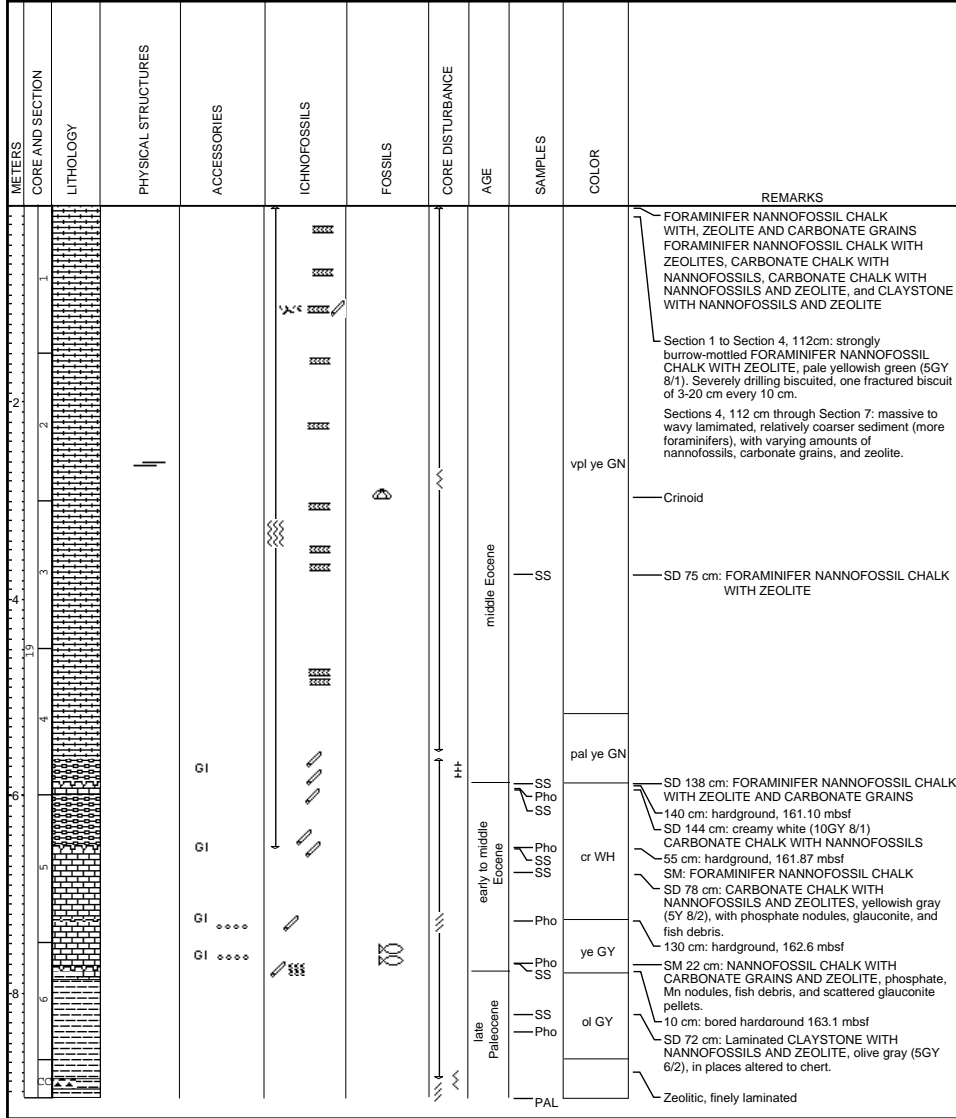
CORED 129.7-136.0 mbsf

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTNOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0 1 2 3 4	1 2 3 4							middle Eocene	SS IW	vpl GN	<p>NANNOFOSSIL CHALK</p> <p>very pale green (10GY 8/1) NANNOFOSSIL CHALK Section 1, 0-9 cm contains chert nodules and void areas. Individual chert nodules are found in Section 1, 93-96 cm, 100-103 cm and in Section 2, 67-71 cm, 116-117 cm. The entire core is biscuited. Minor burrowing can be seen in some biscuits.</p>

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTNOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0											
1									SS Pho SS	vit gn WH	<p>NANNOFOSSIL CHALK with CHERT LAYERS</p> <p>The predominant lithology is a very light greenish white (2.5G 8/2) NANNOFOSSIL CHALK with +/- FORAMINIFERS. In Section 2 foraminifers are more abundant than in Section 1 and downcore. Several greenish gray (10GY 7/2) CHERT layers and chert nodules are observed, and in Section 1, 6-12 cm a LIMESTONE interval. Drilling disturbance is severe, the entire core is fractured and biscuited. Chert layers are highly fractured, and biscuits moderate to highly fractured. In Section 1, 30-38 cm an interbedded greenish gray (10GY 7/2) CLAYSTONE and CHALK layer is observed.</p> <p>Section 2, 144-150: CHERT nodules</p>
2									SS		
3										vit gn WH	
4											
5											
6									SS	vit gn WH	Section 4, 143 cm: CHERT nodules
									PAL		







SITE 1052 HOLE A CORE 20X

CORED 162.9-168.4 mbsf

1052A-20X

1052A-21X

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0.1									Pho		<p>CLAYSTONE WITH OPAL and CLAYSTONE WITH OPAL, CARBONATE GRAINS AND NANNOFOSSILS</p> <p>Dark greenish gray (10Y 5/2), dark gray (5Y 4/1) and olive gray (5Y 3/2) CLAYSTONE WITH OPAL grades downcore to CLAYSTONE WITH OPAL, CARBONATE GRAINS, AND NANNOFOSSILS, moderately bioturbated, as very hard drilling fragments. In Section 1, larger piece contains a gradational boundary at 9 cm, from lighter to darker sediment downcore.</p> <p>In Section CC, larger piece has a sharp, wavy contact at 5 cm, with lighter sediment having mm-scale ball-and-pillow structure into darker sediment. Darker sediment is laminated with many burrows.</p> <p>Section CC, 16-29 cm, hard, dark gray (5Y 4/1) to gray (5Y 6/1) sediment is laminated. Between larger drilling fragments is a gray drilling-induced slurry.</p> <p>Section 1, 12-13 cm: hairline, vertical fracture filled with blue chert.</p>
0.2								SS			
0.20								SS			
0.3								Pho			
0.4								PAL			

SITE 1052 HOLE A CORE 21X

CORED 168.4-174.5 mbsf

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0.1									SS		<p>CHERTY CLAYSTONE</p> <p>Olive gray, (5Y 3/1) laminated chert, highly drilling fractured.</p>
0.2										ol GY	
0.3										PAL	



METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
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NANNOFOSSIL OOZE

Core consists of yellowish white (5Y 8/2) NANNOFOSSIL OOZE and two bioturbated layers of vitric ash. Vague burrow-mottling throughout. Subhorizontal burrows are probably Zoophycos. Some rare smectite blebs and pyrite specks scattered throughout.

SS

pal ye WH

SS

— Bioturbated VITRIC ASH (19.90 - 19.95 mbsf)

SS

— Bioturbated VITRIC ASH (23.75 - 23.77 mbsf)

PAL



METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
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SITE 1052 HOLE B CORE 6H

CORED 43.0-52.5 mbsf

1052B-6H

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0	1										NANNOFOSSIL OOZE Homogeneous, burrow-mottled NANNOFOSSIL OOZE, very pale yellowish green (5GY 8/1). Dark Zoophycos spreiten throughout the core. Pyrite specks and burrow linings common throughout core.
2											
3											
4											
5								late Eocene	SS	vpl ye GN	Slightly alternating dark/light bedding, very gradual contacts.
6									SS		SM 129 cm: VITRIC ASH WITH BIOTITE (51.04 mbsf)
7									PAL		CC entirely to Paleo Lab



METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES ACCESSORIES	ICHNOFOSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
							late Eocene	vpl ye GN  SS  PAL		<p>— NANNOFOSSIL OOZE</p> <p>— Homogeneous, burrow-mottled ooze with thin, hard beds of CALCAREOUS CHALK WITH NANNOFOSSILS. Very faint color alternations of slightly darker, lighter intervals are visible. Zoophycos spreiten occur throughout and pyrite specks and burrow linings are common throughout.</p>

SITE 1052 HOLE B CORE 8H

CORED 62.0-62.5 mbsf

1052B-8H

METERS	CORE AND SECTION	PHYSICAL STRUCTURES	ACCESSORIES	ICHTNOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0 1 2 3 4 5 6 7 8 9 10							Late Eocene PAL	SS PAL	vpl ye GN	NANNOFOSSIL OOZE WITH SILICEOUS MICROFOSSILS Very pale yellowish green (5Y 8/1). Moderate drilling disturbance.

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0.0											
1.0									gn WH		SILICEOUS NANNOFOSSIL OOZE
1.5									vpl GN		Very pale green (10GY 8/1) to greenish white (10GY 9/1) subtle color variations occur that are difficult to accurately delimit.
2.0									gn WH		Vaguely burrow-mottled to homogeneous with isolated, darker, subhorizontal burrows throughout, latter may be Zoophycos but have fuzzy edges and fuzzy internal features
2.5									vpl GN		
3.0									gn WH		Pyrite (disseminated and concentrated in <1 cm patches) throughout
3.5									vpl GN		Little or no drilling disturbance except around CALCAREOUS CHALK WITH NANNOFOSSILS in Section 1
4.0									gn WH		
4.5									SS		134-142 cm- white CHALK biscuit in ~30 cm of disturbed ooze
5.0									vpl GN		109 cm- ASH, 1 cm thick, bioturbated (66.59 mbsf)
5.5									gn WH		
6.0									gn WH		
6.5									vpl GN		
7.0									SS		63 cm- ASH in burrow, probably brought up from below
7.5									gn WH		87 cm- ASH, 1 cm thick, bioturbated (69.37 mbsf)
8.0									vpl GN		
8.5									gn WH		
9.0									vpl GN		
9.5									gn WH		
10.0									vpl GN		
10.5									gn WH		
11.0									vpl GN		
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METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0											
1									pal GN		<p>SILICEOUS NANNOFOSSIL OOZE WITH FORAMINIFERS</p> <p>Pale green (10GY 8/1) to almost white (10GY 9/1) SILICEOUS NANNOFOSSIL OOZE WITH FORAMINIFERS. Color alternation is very subtle. Homogeneous to very vaguely burrow-mottled. Occasional pale brown subhorizontal burrows with diffuse edges.</p> <p>Disseminated to small (&lt;1 cm) patchy concentrations of pyrite.</p>
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METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
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METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTNOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
								<p>late Eocene</p>	<p>SS</p> <p>SS</p> <p>PAL</p>	<p>pal YE</p>	<p>NANNOFOSSIL OOZE</p> <p>Section 1, 0-91 cm: Slurry pockets in otherwise probable in situ material. Slurry contains stained foraminifers.</p> <p>Section 1, 48-52 cm: indurated carbonate crust with Mn-oxide coating.</p> <p>Pale yellow (2.5Y 8/2) NANNOFOSSIL OOZE with very little burrowing evident. Pyrite flecks &amp; blebs throughout. Several intervals were slightly darker, but still pale yellow (Section 5, 0-25 cm; Section 6, 0-55 cm).</p> <p>SM Section 7, 19 cm: NANNOFOSSIL OOZE WITH ALTERED ASH in 14-28 cm (9.14-9.28 mbsf).</p>



METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0											
1				Mn					SS XRD SS		<p>NANNOFOSSIL OOZE. CARBONATE OOZE WITH FORAMINIFERS CLAY AND FE OXIDE, and PHOSPHATIC OOZE WITH FORAMINIFERS.</p> <p>Section 1, 0-26 cm: Light brownish gray (10YR 6/2) PHOSPHATIC OOZE WITH FORAMINIFERS. Gradational contact (at 26 cm) with very pale brown (10YR 7/4) CARBONATE OOZE WITH FORAMINIFERS, CLAY AND FE OXIDE containing cream-colored carbonate nodules at Section 1, 39-40 cm; 55-60 cm; 63-68 cm.</p> <p>Sharp contact at 80 cm with white (10YR 8/2) NANNOFOSSIL OOZE. Mn flecks are common from 80-100 cm.</p> <p>141 cm: Mn oxide lamina</p> <p>From Section 1, 80 cm and downhole the core consists of homogeneous, white (10YR 8/2) NANNOFOSSIL OOZE. It is generally structureless, although there are faint darker laminations which may be burrow mottles. Thin Mn oxide laminations occur at Section 2, 20 and 26 cm.</p>
2			Mn						SS PAL SS		
3											
4									SS		
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9											
9.5									PAL		

MEETERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTNOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
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REMARKS

— NANNOFOSSIL OOZE

— Very pale yellow, (5Y 8/1) moderately bioturbated NANNOFOSSIL OOZE, with occasional Zoophycos traces and burrows filled with smectite. Moderate drilling disturbance, sediment stretched according to the MST data (See "Physical Properties" section)

— VITRIC ASH, 1 cm thick, bioturbated to 4 cm upward (12.51-12.54 mbsf).

late Eocene

vpl YE

PAL

SITE 1052 HOLE E CORE 1R

CORED 140.0-146.4 mbsf

1052E-1R

1052E-2R

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTNOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0-2	1	...			...			middle Eocene	SS SS	WH WH WH WH	<p>CARBONATE NANNOFOSSIL CHALK WITH CALCISPHERES AND FORAMINIFERS and CARBONATE NANNOFOSSIL CHALK</p> <p>Slightly to moderately bioturbated throughout, coarse-grained NANNOFOSSIL CHALK WITH CALCISPHERES AND FORAMINIFERS, alternates from white to light greenish gray (CARBONATE NANNOFOSSIL CHALK). The greenish gray intervals are enriched in calcispheeres.</p> <p>Section 1, 0-15 cm: Light greenish gray (5GY 8/1) PORCELLANITE with pale yellowish green (5GY 6/2) CHERT.</p> <p>Section 2: Light greenish gray (5GY 8/1) PORCELLANITE with pale yellowish green (5GY 6/2) CHERT.</p>

SITE 1052 HOLE E CORE 2R

CORED 146.4-156.0 mbsf

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTNOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0-3	1 2	...			...			middle Eocene	SS Pho IW SS SS PAL	WH lt gn GY gn WH WH	<p>FORAMINIFERAL NANNOFOSSIL CHALK WITH ZEOLITE and ZEOLITIC CARBONATE NANNOFOSSIL CHALK.</p> <p>Entire core is slightly to moderately bioturbated Alternation of light greenish gray (5GY 8/1) to white (N9), fine grained ZEOLITIC CARBONATE NANNOFOSSIL CHALK and coarse grained FORAMINIFERAL NANNOFOSSIL CHALK WITH ZEOLITE.</p> <p>Hardground, Section 1, 85 cm (148.25 mbsf). Surface is stained green. Boring persists to a depth of 92 cm.</p>

SITE 1052 HOLE E CORE 3R

CORED 156.0-165.6 mbsf

1052E-3R

1052E-4R

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTNOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0.0-0.1	1	FORAMINIFERAL CHALK, LIMESTONE and ZEOLITIC CLAYSTONE						middle Eocene	pal GN WH		Sections 1 and 2: pale green (10GY 8/1) to white (N9), burrow-mottled; grading to very pale yellow (5Y 8/1) to white (N9) (Section 2, ~70 cm) soft FOAMINIFERAL CHALK to foraminifer-rich LIMESTONE with zeolites.
0.1-0.2	2								pal ye GN WH		Sections 3 and CC-greenish gray (5GY 6/2 to 10GY 5/1) laminated ZEOLITIC CLAYSTONE with slight bioturbation
0.2-0.3	3								gn GN		Drilling disturbance increases through Section 2, slight in Sections 3 and CC. 0-9 cm-chert piece 147-150 cm- glauconite grains up to 5 mm; fish remains

SITE 1052 HOLE E CORE 4R

CORED 165.6-175.2 mbsf

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTNOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0.0-0.1	1	PORCELLANITIC CALCAREOUS CLAYSTONE						middle Paleocene			Greenish gray (5GY 6/1 to 5GY 5/2), drilling-induced fragments. Greenish gray (5GY 6/1 to 5GY 5/1) drilling fragments of CLAYSTONE. CC entirely to Paleo Lab



SITE 1052 HOLE E CORE 6R

CORED 184.8-194.4 mbsf

1052E-6R

1052E-7R

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS	
0.1										dk gn GY	CLAYSTONE WITH NANNOFOSSILS AND CARBONATE GRAINS  Drilling fragments of hard, laminated to flasy-laminated, dark greenish gray (5GY 6/1 to 5GY 5/2) CLAYSTONE WITH NANNOFOSSILS AND CARBONATE GRAINS.	
0.2									dk gn GY			
0.3									dk gn GY			
0.4									dk gn GY			
0.5									dk gn GY			
0.6									dk gn GY			
0.7									dk gn GY			

SITE 1052 HOLE E CORE 7R

CORED 194.4-204.0 mbsf

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0.1											ZEOLITIC CARBONATE CLAYSTONE WITH OPAL  3 hard pieces of ZEOLITIC CARBONATE CLAYSTONE WITH OPAL. Faintly laminated, slightly bioturbated. Black streaks throughout.
0.2										GY	

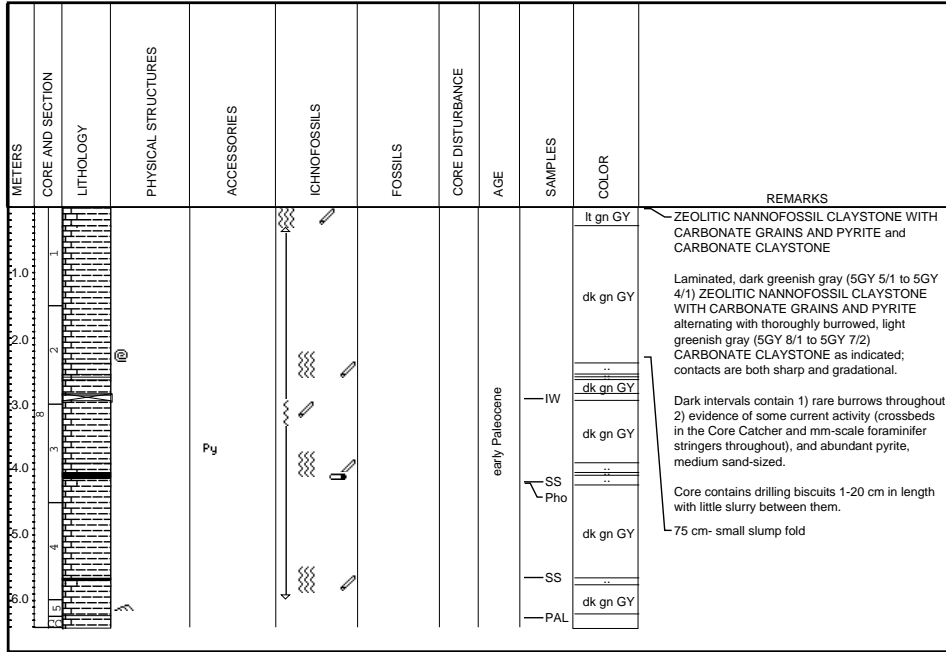


SITE 1052 HOLE E CORE 8R

CORED 204.0-213.6 mbsf

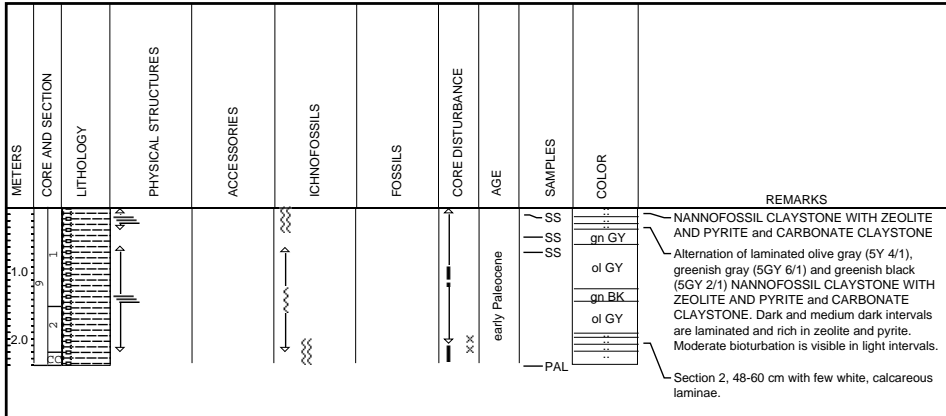
1052E-8R

1052E-9R



SITE 1052 HOLE E CORE 9R

CORED 213.6-223.2 mbsf





SITE 1052 HOLE E CORE 11R

CORED 232.8-242.4 mbsf

1052E-11R

1052E-12R

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
1.0	1			▲▲▲▲▲				early Paleocene	SS SS Pho SS	gn GY	CLAYEY NANNOFOSSIL CHALK WITH ZEOLITE and CLAYEY CARBONATE CHALK WITH ZEOLITE Alternation of darker greenish gray (5GY 5/1) CLAYEY NANNOFOSSIL CHALK WITH ZEOLITE and lighter greenish gray (5GY 6/1) CLAYEY CARBONATE CHALK WITH ZEOLITE. Pervasive bioturbation in both lithologies with common Chondrites and rare Zoophycos. Several larger burrows are filled with darker (5GY 3/1) sediment. SM: Sect. 1, 30 cm: CARBONATE SILTSTONE WITH CLAY Sect. 1, 50-53 cm: synsedimentary fold with dark mud clast Sect. 2, 0-11 cm: very faint, wavy (pseudo?) lamination, probably bedding parallel burrows.
2.0	2			▲▲▲▲▲							

SITE 1052 HOLE E CORE 12R

CORED 242.4-252.0 mbsf

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
1.0	1							early Paleocene	SS Pho SS	dk gn GY mdk gn GY lt gy GN	CLAYEY NANNOFOSSIL CHALK to CARBONATE CHALK WITH CLAY AND NANNOFOSSILS Greenish gray (10GY 5/1) CLAYEY NANNOFOSSIL CHALK, severely bioturbated (Planolites, Zoophycos, Chondrites, and unidentified burrows) that grades into light greenish gray (10GY 7/1 to 5GY 7/1) CARBONATE CHALK WITH CLAY AND NANNOFOSSILS. The contact between the darker and the lighter lithologies is bioturbated with lighter burrow infillings in the darker lithology and darker infillings in the lighter lithology. Pyrite lines some burrows throughout Section 1 to Section 2, 0-7 cm and 104-107 cm. Section 1, 66 cm: mud pebbles of lighter color Section 1, 90 cm: Very thin glauconite-rich layer.
2.0	2										
3.0	3										
4.0	4										
5.0	5										
											CC, 15-20 cm: piece of cherty limestone

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0.0										lt. gn. GY	NANNOFOSSIL CHALK WITH FORAMINIFERS, CLAY AND CARBONATE GRAINS
0.1									SS	gn GY	Light greenish gray (5GY 8/1) to greenish gray (7.5GY 6/1-7/1) NANNOFOSSIL CHALK WITH FORAMINIFERS, CLAY AND CARBONATE GRAINS with CHERTY intervals. Chondrites, Planolites, Zoophycos, and unidentified burrows throughout core. Pyrite flecks and infilled burrows throughout core.
0.2									gn GY		
0.3									SS	gn GY	Section 3, 4-5 cm: ALTERED ASH WITH BIOTITE (255.04-255.05 mbsf)
0.4									PAL		Section 3, 45-46 cm: burrow with halo

SITE 1052 HOLE E CORE 14R

CORED 261.7-271.3 mbsf

1052E-14R

1052E-15R

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
1.4 1.2 1.0 0.8 0.6 0.4 0.2	1 2							early Paleocene	SS IW PAL	lt GY lt GY	<p>CARBONATE CLAYSTONE WITH NANNOFOSSILS and CALCAREOUS CHERT</p> <p>Section 1, 0-28 cm consists of light gray (10Y 7/1) CALCAREOUS CHERT nodules of ~5 cm diameter. Section 1, 28 cm and downhole consists of light gray (10Y 7/1) CALCAREOUS CLAYSTONE.</p> <p>Core is moderately bioturbated throughout with Chondrites, Zoophycos, and unidentified burrows. The core is moderately fractured except the core catcher, which is severely fractured.</p>

SITE 1052 HOLE E CORE 15R

CORED 271.3-280.9 mbsf

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
2 1.5 1 0.5	1 2							early Paleocene	SS SS PAL	lt gn GY gn GY	<p>FORAMINIFERAL CLAYSTONE WITH NANNOFOSSILS AND CARBONATE GRAINS</p> <p>Section 1 to Section 2, 76 cm: light greenish gray (10Y 7/1) FORAMINIFER CLAYSTONE WITH NANNOFOSSILS</p> <p>Section 2, 76 cm to CC: greenish gray (10Y 5/1-6/1) CLAYSTONE WITH NANNOFOSSILS AND CARBONATE GRAINS</p> <p>Pyrite flecks and infilled burrows, Chondrites, Planolites, Zoophycos, and undifferentiated burrows throughout. Minor biscuiting.</p>

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTNOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0									SS		<p>NANNOFOSSIL CLAYSTONE to NANNOFOSSIL CLAYSTONE WITH FORAMINIFERS</p> <p>Light greenish gray (10Y 7/1) NANNOFOSSIL CLAYSTONE that grades into NANNOFOSSIL CLAYSTONE WITH FORAMINIFERS. A piece of cherty limestone is observed in Section 1, 3-6 cm. Section 1 is moderately bioturbated down to 100 cm and is heavily bioturbated downcore to Section 5 (Planolites, Chondrites, Zoophycos, and unidentified burrows). The entire core is slightly fractured. Pyrite lines burrows throughout.</p> <p>Section 4, 80 downsection: some pseudolaminations observed</p> <p>Section 5, 111 to Section 6, 20 cm: Slumping, intraformational breccia</p> <p>Section 6, 12-15 cm: Large pyrite nodule</p>
1									SS	lt gn GY	
2											
3											
4									IW	mlt gn GY	
5									Pho	lt gn GY	
6									Pho		
7									SS		
8									PAL		

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHIKNOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0	1							early Paleocene	SS SS	lt gn GY gn GY lt gn GY gn GY lt gn GY gn GY SS SS gn GY	<p>CARBONATE CHALK WITH CLAY AND FORAMINIFERS, CLAYEY NANNOFOSSIL CHALK WITH ZEOLITE AND FORAMINIFERS, CLAYEY FORAMINIFER CHALK WITH QUARTZ SILT and CLAYEY FORAMINIFER CHALK</p> <p>Sections 1 through 4 consist of alternating light greenish gray (5GY 7/1 to 5GY 8/1) CARBONATE CHALK WITH CLAY AND FORAMINIFERS and darker, greenish gray (5GY 6/1 to 5GY 5/1) CLAYEY NANNOFOSSIL CHALK WITH ZEOLITE AND FORAMINIFERS. Burrowing is presumably intense due to the lack of lamination. Chondrites is common. Rare Zoophycos are lined with pyrite, which also occurs as nodules.</p> <p>Section 1, 38-41 cm: intraclast is slightly lighter than surrounding sediment. Undisturbed material of this type occurs 50 cm downcore.</p> <p>Section 1, 110-117 cm: layer with compacted mud clasts.</p> <p>Section 2, 88-89 cm: almost straight surface caps dark firmground. Smear slide from below firmground contains biotite and altered volcanic glass.</p> <p>Sect. 5, 0-150 cm to Sect. 6, 0-7 cm consists of structureless, greenish gray (5GY 6/2) CLAYEY FORAMINIFER CHALK WITH QUARTZ SILT with numerous glauconitic pellets scattered throughout. Bioturbation is not visible, but presumably intense.</p> <p>Sect. 6, 7 cm to base of core: Strongly burrow-mottled greenish gray (5GY 5/1 to 5GY 6/1) CLAYEY FORAMINIFER CHALK. Burrows are mostly indistinct, and there are several layers with Chondrites. Pyrite specks are common throughout.</p> <p>Sect. 7, 10-11: echinoid spines</p>









METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0											
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CLAYEY NANNOFOSSIL CHALK  
 Faintly laminated and slightly bioturbated throughout (Teichichnus, Phycoides, Chondrites). Very faint light-dark alternations of greenish gray (5GY 6/1) CLAYEY NANNOFOSSIL CHALK. Dip of beds from Sections 1 to 3, 107 cm is 5 to 10° offset is unknown.

Section 3, 107-139 cm, drilling breccia, pieces with slickensides; dip is 20°.

Py

SS

gn GY

late Maastrichtian

PAL

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0.0											
1.0				Py					TS	pal ye GN	CLAYEY NANNOFOSSIL CHALK to NANNOFOSSIL CHALK WITH CLAY
2.0				Py						pal ye GN	slump fold
3.0										dsk ye GN	slumped layers with FORAMINIFER SANDSTONE
4.0									SS	dsk ye GN	
5.0										pal ye GN	Alternating olive gray to greenish gray (5GY 6/1) laminated CLAYEY NANNOFOSSIL CHALK and light olive gray (5GY 8/1) NANNOFOSSIL CHALK WITH CLAY.
6.0										pal gn GY	Sections 1 through 2, 72 cm are slumped. Drilling disturbance is minor. Zoophycos, Teichichnus, and Chondrites burrows throughout entire core; bioturbation is slight to moderate in dark layers.
										TS	Series of (conjugate) faults and fractures with slickensides
				Py						It ol GY	
									SS	PAL	





MEETERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0											
1			X						PAL		CARBONATE CLAYSTONE WITH FORAMINIFERS, CLAYSTONE WITH FORAMINIFERS AND CARBONATE GRAINS, and FORAMINIFER CARBONATE CHALK WITH NANNOFOSSILS
2				///					SS	gn GY	Bedding dips 40 degrees SD: Sect 1, 136 cm CHAYSTONE WITH FORAMINIFERS AND CARBONATE GRAINS
3				GI					SS	vlt gn GY	Section 2, 38-123 cm: FORAMINIFERAL SANDSTONE
4				GI					TS	WH	Probably completely homogenized by burrowing prior to formation of surface at Section 2, 38 cm. Second generation of burrows (including Zoophycos) introduced darker greenish sediment from above Section 2, 38 cm. Intensity of this burrowing clearly decreases downward. Some burrows are not filled with sediment.
5				GI						vlt gn GY	SD: Sect. 2, 110 cm FORAMINIFER CARBONATE CHALK WITH NANNOFOSSILS
6			X								Irregular lamination. Lenticular bedding and possible slumping at Section 2, 134-142 cm. Large, indurated Coniacian age LIMESTONE clast at Section 2, 144-146 cm contains abundant glaucony.
7											Hard, white LIMESTONE pebbles with glauconitic coating.
8									SS	lt gn GY	SD: Sect 5, 80 cm CARBONATE CLAYSTONE WITH FORAMINIFERS
9									PAL		

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTNOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
								late Maastrichtian	— SS — SS — Pho — PAL		<p>CLAYEY NANNOFOSSIL CHALK and CLAYEY NANNOFOSSIL CHALK WITH CARBONATE GRAINS</p> <p>Light gray to light olive gray (10Y 7/1) CLAYEY NANNOFOSSIL CHALK with darker burrow infillings. The entire core is slightly fractured. Pyrite lines some burrows throughout. In Section 1 to Section 2, 14 cm, there are occasional laminations and moderate bioturbation. Downcore from Section 2, 14 cm, the core is laminated and bioturbation is slight.</p> <p>— Section 2, 137 cm: thin laminted pyrite layer</p> <p>CC entirely to Paleo Lab</p>



METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0											
1									SS		NANNOFOSSIL CLAYSTONE to CLAYSTONE WITH CALCAREOUS MICROFOSSILS
2									SS		Light greenish gray (10Y 8/1-7/1) to greenish gray (10Y 6/1) NANNOFOSSIL CLAYSTONE to CLAYSTONE WITH CALCAREOUS MICROFOSSILS. Darker intervals contain more clay. Most of the core is laminated and bioturbated, with glauconite, pyrite flecks, and small bits of pyrite. Chondrites are found throughout the core. Shell fragments are scattered through Section 1.
3									IW	lt gn GY	Section 2, 139-146 cm: Graded bed, interpreted as a turbidite with a fining-upward sequence, underlain by mud clasts (146-149 cm). The coarser-grained material in the turbidite is primarily carbonate grains and broken foraminifers. Small amounts of this coarse-grained material are scattered upcore through Section 2, 75 cm, and downcore through Section 3, 13 cm.
4											SM: Sect. 2, 145 cm NANNOFOSSIL CLAYSTONE WITH CARBONATE GRAINS
5											
6									SS		Section 6, 40-75 cm: fault with slickensides and sparry calcite.
6									PAL		Note: entire CC to Paleo Lab.



MEETERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES ACCESSORIES	ICHTNOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0	1									<p>NANNOFOSSIL CLAYSTONE</p> <p>Light to moderate greenish gray (10GY 8/1, 10GY 7/1) NANNOFOSSIL CLAYSTONE enriched in shell debris and with darker burrow infillings. Most of the core is laminated, except for Section 1, 110-150 cm, where some mud clasts are observed, Section 2, 17-47 cm with a lighter interval slumped and some microslumping, Section 3, 0-12 cm and 133-150 cm and Section 4, 0-20 cm. Alternations in colors are laminae scale. Pyrite lines some burrows throughout. The core is slightly fractured except for Sections 6, 7, and the CC, which are moderately to heavily fractured, with some biscuiting throughout Sections 7 and CC.</p> <p>SD: Sect 2, 142 cm NANNOFOSSIL CLAYSTONE WITH SHELL DEBRIS</p>
1	2							SS		
2	3									
3	4							mit gn GY		
4	5							SS		
5	6							Pho		
6	7									
7	8									
8	9									
9	10							PAL		

1052E-32R NO RECOVERY

1052E-33R

1052E-34R

METERS		CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0-33		1			Py GI			II	early Maastrichtian	IW SS SS SS SS PAL	lt ye GY lt ye GY gn GY vt ye GY	<p>CARBONATE CLAYSTONE and FORAMINIFER CLAYSTONE WITH NANNOFOSSILS</p> <p>Upper part of core is heavily bioturbated, light yellowish gray (5Y 7/1) CARBONATE CLAYSTONE WITH FORAMINIFERS. Sect. 1, 90-150 cm is largely homogeneous, very light yellowish gray (5Y 8/1) FORAMINIFER CLAYSTONE WITH NANNOFOSSILS, with rare rounded and elongate mud clasts and lumps of coarse FORAMINIFER PACKSTONE in the finer-grained matrix. Sect. 1, 105-150 cm is presumably part of a debrite. The Core Catcher consists of a CONGLOMERATE of varicolored mud clast and glauconitic grains.</p> <p>Sect. 1, 63 cm: large Inoceramid shell at top of biscuit</p> <p>Sect. 1, 69-90 cm: darker, greenish gray (5GY 6/1) layer of CARBONATE CLAYSTONE</p> <p>CC, 6-11 cm: normal fault with minor offset</p>

METERS		CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0-34		1 2						I	early Maastrichtian	SS SS PAL	lt gn GY	<p>NANNOFOSSIL CLAYSTONE WITH CARBONATE GRAINS</p> <p>This core contains light greenish gray (5Y 7/1) NANNOFOSSIL CLAYSTONE WITH CARBONATE GRAINS. The core is laminated and burrowed, with darker laminae surfaces in places. Wavy darker laminae occur from ~Section 1, 110 cm to the base of the core. This interval contains some darker material and some coarser-grained material that reflects an increase in shell debris and large carbonate grains. Minor biscuiting occurs in Section 1, 0-18 cm.</p> <p>SM Section 1, 120 cm: NANNOFOSSIL CLAYSTONE WITH SHELL DEBRIS AND CARBONATE GRAINS</p> <p>SD Section 2, 31 cm</p>

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0.1	1							early Maastrichtian	SS	lt GY	<p>NANNOFOSSIL CLAYSTONE</p> <p>Light gray (7.5GY 8/1) to very light gray NANNOFOSSIL CLAYSTONE.</p> <p>Entire core is moderately bioturbated, although horizontal bedding is preserved. Flecks and blebs of pyrite are disseminated throughout. Dark, unbioturbated laminae are present at the tops of Sections 2 and 3.</p>
0.2	2										<p>Greenish silty laminae with burrows</p>
0.3	3										
0.4	4										
0.5	5										
0.6	6										
0.7	7										
0.8	8										
0.9	9										
1.0	10										
1.1	11										
1.2	12										
1.3	13										
1.4	14										
1.5	15										
1.6	16										
1.7	17										
1.8	18										
1.9	19										
2.0	20										
2.1	21										
2.2	22										
2.3	23										
2.4	24										
2.5	25										
2.6	26										
2.7	27										
2.8	28										
2.9	29										
3.0	30										
3.1	31										
3.2	32										
3.3	33										
3.4	34										
3.5	35										
3.6	36										
3.7	37										
3.8	38										
3.9	39										
4.0	40										
4.1	41										
4.2	42										
4.3	43										
4.4	44										
4.5	45										
4.6	46										
4.7	47										
4.8	48										
4.9	49										
5.0	50										
5.1	51										
5.2	52										
5.3	53										
5.4	54										
5.5	55										
5.6	56										
5.7	57										
5.8	58										
5.9	59										
6.0	60										
6.1	61										
6.2	62										
6.3	63										
6.4	64										
6.5	65										
6.6	66										
6.7	67										
6.8	68										
6.9	69										
7.0	70										
7.1	71										
7.2	72										
7.3	73										
7.4	74										
7.5	75										
7.6	76										
7.7	77										
7.8	78										
7.9	79										
8.0	80										
8.1	81										
8.2	82										
8.3	83										
8.4	84										
8.5	85										
8.6	86										
8.7	87										



METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS	
0	1			P <sub>y</sub>					med gn GY		<p>CLAYEY NANNOFOSSIL CHALK and NANNOFOSSIL CHALK WITH CLAY</p> <p>Flasery-bedded, faintly laminated, moderately bioturbated (Teichichnus, Chondrites and other). Colors vary from light greenish gray (5GY 8/1) to dark greenish gray (5GY 4/1) and light olive.</p> <p>Completely dark greenish gray intervals are CALCAREOUS CLAYSTONE WITH OPAL AND NANNOFOSSILS, laminated and only slightly bioturbated. The nodular appearance of light greenish gray, coarse-grained LIMESTONE WITH CLAY AND CALCISPHERES intervals indicate a probable diagenetic origin. Some limestone intervals show slumping structures and foraminiferal packstone dikes.</p> <p>Section 1, 92-103 cm: coarse-grained LIMESTONE with deep vertical Zoophycos burrow reoccupied by Chondrites. LIMESTONE with gray angular clasts of FORAMINIFERAL SANDSTONE.</p> <p>Section 2, 2-11 cm: coarse grained LIMESTONE with reworked clasts of FORAMINIFERAL SANDSTONE.</p> <p>Section 4, 79-84 cm and 126-131 cm: slumped intervals with coarse-grained dikes.</p> <p>Section 6, 28 to 29 cm: coarse-grained foraminiferal rich intervals, slightly graded.</p> <p>CC entirely to Paleo Lab</p>	
1	2			P <sub>y</sub>					lt gn GY			
2	3								lt gn GY			
3	4								lt gn GY			
4	5								lt gn GY lt OL			
5	6								lt gn GY med gn GY lt OL			
6	7								med gn GY med gn GY			
7												
								early Cenomanian				





METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0										lt ol GY	NANNOFOSSIL LIMESTONE WITH CLAY, SILTY CLAYSTONE and CLAYSTONE WITH NANNOFOSSILS AND FORAMINIFERS
1										ol GY	Section 1, 0 cm-Section 3, 122 cm-NANNOFOSSIL LIMESTONE WITH CLAY in upper portion with discernable alternations between darker and lighter olive gray (5Y 4/1 to 5Y 5/1). Dominantly laminated (1-5 mm) but with discrete burrows throughout, relatively clay-rich intervals, light olive gray (5Y 6/1 to 7.5 7/1), heavily bioturbated, relatively carbonate-rich intervals; in the upper 25 cm of Section 2, alternations disappear or are impossible to resolve and color is intermediate. Fabric as in darker intervals with laminations varying from olive gray to light olive gray (5Y 4/1 to 5Y 7/1).
2									mt ol GY	123 cm-concentration of glauconite pellets	
3									mt ol GY	80 cm-flame structure?	
4									SS		
5									mt ol GY		
6									IW	lt gn GY	Section 3, 122 cm to Section 4, 100 cm-alternation between olive gray (10Y 5/2) foraminiferal claystone and grayish yellow green (10Y 7/2) foraminiferal limestone. Glauconite occurs throughout but is more common in the darker intervals; darker intervals also coarser; bioturbation heavy throughout except as indicated.
7										ol GY	Section 5, 0 cm-Section CC, 25 cm- relatively dramatic alternation between olive gray (10Y 4/2) SILTY CLAYSTONE with intervals rich in glauconitic sand and light greenish gray CLAYSTONE WITH NANNOFOSSILS AND FORAMINIFERS in which glauconite is present but less abundant. Phycoides and Chondrites preferentially occur in the SILTY CLAYSTONE and Planolites and unidentified cm-scale burrows preferentially occur in the CLAYSTONE WITH NANNOFOSSILS AND FORAMINIFERS; both lithologies generally have a completely biogenic fabric. Medium-light greenish gray (10Y 7/1) intervals of intermediate composition occur both as part of a gradational contact and as the extreme of apparent cycles but are only reported in the latter case or when particularly thick.
8									SS	lt gn GY	
9									SS	OL	
10										lt gn OL	Glaucanite has distinct yellowish cast
11										OL	8-17 cm- sand-rich
12										mt gn GY	cm-scale mud clasts
13									TS	lt gn GY	
14										PAL	lt gn GY

SITE 1052 HOLE E CORE 40R

CORED 510.6-520.3 mbsf

1052E-40R

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHIKOFOSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0.0	1									dk gn GY	NANNOFOSSIL CLAYSTONE WITH ZEOLITE and CLAYSTONE WITH ORGANIC REMAINS AND NANNOFOSSILS
0.5	2			Py						vdk gn GY	Alternation of laminated BLACK SHALE and coarse grained foraminiferal-rich CLAYSTONE of varying carbonate content. Moderately bioturbated throughout. Laminated BLACK SHALE intervals are slightly bioturbated with only few Chondrites burrows. Colors vary from light greenish gray (5GY 6/1) in the coarse grained, hard intervals to dark gray (5Y 4/1) and very dark greenish gray (5GY 3/1) in BLACK SHALE.
1.0	3			GI			HH	late Albian		mdk gn GY	BLACK SHALE, Section 1, 126-145 cm
1.5	4			GI						vdk gn GY	BLACK SHALE, Section 2, 5-35 cm
2.0	5			GI						lt gn GY	BLACK SHALE, Section 2, 110.5 cm to Section 3, 20cm
2.5	6			GI						vdk gn GY	BLACK SHALE, Section 3, 48-110 cm
3.0	7									SS SS	BLACK SHALE, Section 4, 3-70 cm
3.5	8									med gn GY	
4.0	9									PAL	



METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0											
1				∅∅∅					SS	dk gn GY	CLAYSTONE WITH QUARTZ SILT AND CARBONATE GRAINS and CLAYSTONE WITH QUARTZ AND FELDSPAR SILT AND CALCAREOUS MICROFOSSILS  Core consists of an alternation between laminated and non-laminated intervals. Non-laminated lithologies comprise dominant burrow-mottled or homogeneous, dark greenish gray (5Y 4/1 to 5Y 5/1) CLAYSTONE WITH QUARTZ SILT AND CARBONATE GRAINS and minor, lighter greenish gray (5Y 5/1 to 5Y 7/1) CLAYEY LIMESTONE. Both are strongly bioturbated with Chondrites and indistinct burrows and both commonly contain shell debris. Intercalated with these lithologies occurs laminated, dark to very dark greenish gray (5Y 3/1 to 5Y 4/1) CLAYSTONE WITH QUARTZ AND FELDSPAR SILT AND CALCAREOUS MICROFOSSILS. There is no bioturbation in the laminated intervals except for occasional Chondrites.  SM: Section 2, 26 cm CLAYEY LIMESTONE
2								SS	gn GY		
3									dk gn GY		
4				Py				IW	dk gn GY		
5				Py				SS	vdk gn GY		
6									gn GY		
7									dk gn GY		
8									dk gn GY		
9									dk gn GY		
10								PAL			

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0.0										gn GY	CLAYSTONE WITH NANNOFOSSILS
0.2									SS	dk gn GY	Major lithology: CLAYSTONE WITH NANNOFOSSILS Minor lithology: CLAYSTONE in the strongly laminated intervals In the CLAYSTONE WITH NANNOFOSSILS, the color ranges from greenish gray (10Y 6/1) to very dark greenish gray (10Y 3/1). In the laminated CLAYSTONE, the color ranges from very light greenish gray (10Y 8/1) to very dark greenish gray (10Y 3/1). Pyrite flecks and bits are scattered throughout the core. There is minor shell debris scattered throughout Section 2 - Section 6, 110 cm.
0.4									vdk gn GY		
0.6									dk gn GY		
0.8									dk gn GY		
1.0									vdk gn GY		
1.2									dk gn GY		
1.4									dk gn GY		
1.6									dk gn GY		
1.8									dk gn GY		
2.0									dk gn GY		
2.2									vdk gn GY	Section 5, 23-24 cm and 43 cm: pyritized burrows	
2.4									gn GY		
2.6									vdk gn GY		
2.8									gn GY		
3.0									vdk gn GY		
3.2									vdk gn GY		
3.4									SS		
3.6									vdk gn GY		
3.8									vdk gn GY		
4.0									gn GY		
4.2									gn GY		
4.4									PAL		
4.6										gn GY	Within the dark, laminated claystone interval, there are very thin silt laminae of very light greenish gray (10Y 8/1) CARBONATE CLAYSTONE (Section 6, 99 cm & 107-108 cm; Section 7, 31-32 cm, 36-37 cm, and 42 cm). Section 7, 18-20 cm and 43-44 cm contains very light greenish gray (10Y 8/1) massive CARBONATE CLAYSTONE.

MEETERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0	1			∅∅∅							CARBONATE CLAYSTONE and CLAYSTONE
1	2			P <sub>y</sub>							Core consists of alternating lithologies of darker and lighter olive green (5GY 4/1) CARBONATE CLAYSTONE. Darker units are more clay-rich and less bioturbated (laminations are still apparent), while lighter intervals are more carbonate-rich and more bioturbated.
2	3			P <sub>y</sub>					SS		Disseminated pyrite 36-45 cm
3	4			P <sub>y</sub>					SS		Section 3 is laminated from 13 cm to base with alternating dark clay-rich laminae and lighter carbonate-rich laminae. Carbonate laminae are more abundant at the base of Section 3.
4	5								med of GN		149 cm: 1 cm coarse-grained lens
5	6								SS		Section 4 and Section 5 to 66 cm: laminated with ~5 cm thick dark/light "packages" (possible turbidites?). Lighter, silty, occasionally cross-bedded CLAYSTONE WITH CALCAREOUS MICROFOSSILS at the base grade upward to fine dark laminae of CLAYSTONE.
6	7			∅∅∅							Section 6, 16 cm to base: bioturbated, although horizontal bedding is still apparent.
7	8			∅∅∅							
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METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0 1 2	1 2							late Albian	SS SS SS SS PAL	dk ol GN mdk ol GN dk ol GN mdk ol GN	<p>CLAYEY LIMESTONE WITH FORAMINIFERS to CARBONATE CLAYSTONE WITH QUARTZ</p> <p>Dark olive green (5GY 4/1) CLAYEY LIMESTONE WITH FORAMS grades into a lighter (5GY 5/1) CARBONATE CLAYSTONE WITH QUARTZ that gradually changes to darker color down to 102 cm in Section 1. In this interval (0 to 102 cm) the core is slight to moderately bioturbated, with bioturbation decreasing slightly downcore. Some shell debris and oxidized pyrite spots are observed from 0 to 14 cm. From Section 1, 102 cm to Section 2, 75 cm, the core is laminated with alternations of darker (5GY 2.5/1 to 5GY 3/1) and lighter olive green (5GY 4/1) thin laminations. Lighter laminae are richer in quartz and forams, and darker laminae are richer in clay.</p> <p>CC entirely to Paleo Lab</p>





METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0	1								mlt ol GN		<p>CLAYSTONE WITH CARBONATE GRAINS</p> <p>Olive green (5GY 4/1 to 5GY 3/1) CLAYSTONE WITH CARBONATE GRAINS. Core is generally homogeneous and bioturbated throughout, although there are occasional lighter green layers and lenses of CLAYSTONE WITH CARBONATE GRAINS that have fewer nannofossils. Very fine-grained pyrite is disseminated throughout the core.</p> <p>Light green bioturbated CLAYSTONE WITH CARBONATE layers at:                      Section 2, 48 cm and 112 cm                      Section 3, 112 cm                      Section 4, 10 cm, 20-23 cm, and 79 cm                      Section 5, 70 cm, 93-100 cm, 113-115 cm                      Section 6, 130 cm</p>
1	2							SS	med ol GN		
2	3								..		
3	4								med ol GN		
4	5			Py					..		
5	6								med ol GN		
6	7								SS	mdk ol GN	
7									PAL		

SITE 1052 HOLE E CORE 48R

CORED 587.6-597.3 mbsf

1052E-48R

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0											CLAYSTONE WITH CARBONATE GRAINS AND FELDSPAR
1									SS		Very dark (10Y 3/1) to moderate dark (10Y 5/1) greenish gray feldspar-rich CLAYSTONE WITH CARBONATE GRAINS AND FELDSPAR. Unidentified burrows, Chondrites, shell fragments, and pyrite scattered throughout core.
2				Py							Section 2, 35-36 cm: opalescent ammonite shell fragments.
3									SS	vdk gn GY	SM Section 3, 62 cm: CLAYSTONE WITH CARBONATE GRAINS. This differs from the dominant lithology in that it contains more clay, less feldspar, and is finer-grained overall. Very light greenish gray (10Y 8/1) thin intervals: Section 3, 4 cm, 62 cm, 75 cm, 110 cm; Section 4, 93-94 cm; Section 5, 106 cm, 127 cm, 130 cm; Section 6, 5 cm, 6 cm, 8 cm, 48-49 cm.
4								late Albian			Section 3, 59-64 cm: burrowed laminae
5										dk gn GY	Section 5, 36-38 cm: ammonite fragments
6									TS		Section 6, 142-144 cm: thin section. Intervals that contain similar material include: Section 6, 55.5-71 cm, 116-118 cm, 130cm, 134 cm
7									PAL	dk gn GY vdk gn GY	Section 7, scattered throughout

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0											
1									SS		<p>CLAYSTONE WITH QUARTZ SILT AND CARBONATE GRAINS and CLAYSTONE WITH QUARTZ SILT NANNOFOSSIL AND PYRITE</p> <p>Alternations, cm-scale, of black to dark gray (6Y 4/1) CLAYSTONE WITH QUARTZ SILT AND CARBONATE GRAINS and CLAYSTONE WITH QUARTZ SILT, NANNOFOSSIL AND PYRITE.</p> <p>The darker lithology is richer in terrigenous components such as organic matter, heavy minerals (chlorite, tourmaline, quartz, mica), and also in pyrite.</p> <p>Bioturbation slight to moderate throughout: Chondrites, Planolites and Zoophycos identified. Pieces of fossil gastropods, bivalves, and ammonites occur throughout.</p> <p>Several foraminifer- and quartz sand-rich laminae, QUARTZ SAND CLAYSTONE, less than 1 to 3 cm thick, occur as indicated throughout the core.</p> <p>SM 40 cm: coarser lamina, QUARTZ SAND CLAYSTONE, enriched in foraminifers. Many foraminifers are lined or enriched in pyrite, giving these laminae a salt-and-pepper appearance.</p> <p>CC entirely to Paleo Lab</p>
2									SS		
3									SS	dk GY dk OL	
4									SS		
5				Py					IW		
6									PAL		

SITE 1052 HOLE E CORE 50R

CORED 606.9-616.6 mbsf

1052E-50R

1052E-51R

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0-3	1-3	Vertical lithology column with patterns for claystone and siltstone.		P <sub>y</sub>	Vertical scale with wavy lines and arrows.	Small circular and shell-like symbols.	Vertical scale with arrows.	late Albian	SS, SS	dk OL, BK	<p>QUARTZ SILT CLAYSTONE WITH NANNOFOSSILS</p> <p>Faintly laminated on cm-scale, slightly to moderately bioturbated dark olive to black (10Y 4/1 to N2) QUARTZ SILT CLAYSTONE WITH NANNOFOSSILS varying in color on a cm scale. Black intervals are CLAYSTONE WITH QUARTZ SILT, CALCAREOUS MICROFOSSILS AND PYRITE. Shell debris of ammonites and bivalves throughout.</p> <p>CC entirely to Paleo Lab</p>

SITE 1052 HOLE E CORE 51R

CORED 616.6-621.7 mbsf

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0-2	1-2	Vertical lithology column with patterns for silty claystone.			Vertical scale with wavy lines and arrows.	Small circular and shell-like symbols.	Vertical scale with arrows.	late Albian	SS		<p>CALCAREOUS SILTY CLAYSTONE WITH CALCAREOUS MICROFOSSILS</p> <p>Dark gray (10Y 3/1) to olive gray (10Y 5/2) SILTY CLAYSTONE WITH CALCAREOUS MICROFOSSILS, burrow-mottled, with Chondrites, Planolites, Zoophycos, and unidentified burrows. Color alternations on cm- to dm-scale, with darker laminae and beds having more terrigenous components.</p> <p>97 cm: pearly ammonite</p>

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0											
1											
2											
3											
4											
5											
6											
								late Albian			
									SS	ol GY	SILTY CLAYSTONE and QUARTZ SILT CLAYSTONE
										mdk of GY	
										ol GY	Black (N1), very dark olive (5Y 2/1), to olive gray (10Y 5/1) QUARTZ SILT CLAYSTONE with silt composed of quartz, carbonate grains and minor feldspar and heavy minerals; darker intervals have a higher proportion and greater variety of terrigenous grains, contain more sand-sized particles (although this remains a few percent), and contain more clay.
										dk of GY	Core moderately bioturbated throughout with no observed difference in composition between light and dark intervals.
										SS	Sandy layer
										BK	
										ol GY	
										dk of GY	Nautloid, pyritized
										dk of GY	
										PAL	

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0.0											
1											
2											
3											
4											
5											
6											
6.0											

SILTY CLAYSTONE WITH CARBONATE GRAINS  
 Alternation of very dark yellowish gray (5GY 3/1) SILTY CLAYSTONE WITH CARBONATE GRAINS with varying amounts of silt. Shell fragments of ammonites and bivalves throughout. Moderately to intensively bioturbated. Laminated BLACK SHALE intervals are faintly to slightly bioturbated. Burrows are Teichichnus, Chondrites and Planolites.

Section 3, 100 cm to Section 4, 25 cm, faintly laminated

Section 4, 66-121 cm, finely laminated BLACK SHALE

late Albian

vdk ye GY

SS

SS  
PAL



METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0.0											
0.5											
1.0											
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METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
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— CALCITE-CEMENTED QUARTZ FORAMINIFER SANDSTONE

Gray (2.5Y 5/1) CALCITE-CEMENTED QUARTZ FORAMINIFER SANDSTONE in three beds: 0-52 cm, Coarse sand, moderately to poorly sorted, is crudely cross-bedded, with cross-beds 2 to 3 cm thick, inversely graded, and dipping 15 to 20 degrees. Dominant grains are benthic foraminifers. Approximately 30% of the grains are subrounded to rounded quartz. Biotite flakes, quartz, glauconite pellets and miscellaneous terrigenous components form darker laminae. Sparry calcite cement fills the pore space.

— 53-72 cm: climbing ripple-laminated, medium-fine CALCITE-CEMENTED, QUARTZ FORAMINIFER SANDSTONE, moderately well-sorted to well-sorted. Dark outlines of ripples are dominantly subrounded to rounded quartz, biotite flakes, glauconite pellets, rare iron oxide particles and wood fragments, and silt-clay. Lighter parts of ripples are dominantly benthic foraminifers.

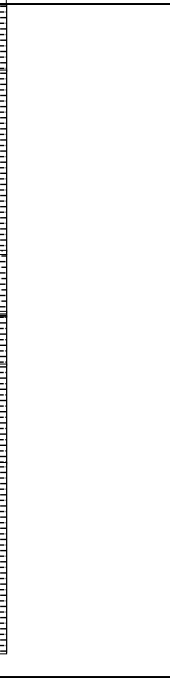

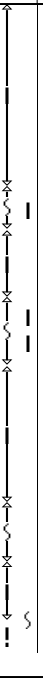
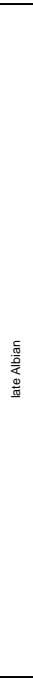
— 73-139 cm: Massive sandstone, composition as above, but of dominantly medium sand. Mud clasts in interval 73-87 cm; drilling fragments, 121-138 cm, are laminated, medium sand.

— No PAL sample

TS

late Albian

GY

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES ACCESSORIES	ICHTHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
0 1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8						late Albian	SS SS SS  dk GY vdk GY	<p style="text-align: center;">REMARKS</p> <p>— SILTY CLAYSTONE and CLAYSTONE WITH CARBONATE GRAINS</p> <p>Interbedded, very dark gray (2.5Y 3/1) SILTY CLAYSTONE and dark gray (5Y 4/1) CLAYSTONE WITH CARBONATE GRAINS, moderately to highly bioturbated. Burrows are compacted and difficult to identify. Color alternations are on the cm-scale, with gradational, bioturbated contacts. Bivalve and pearly ammonite shell debris is common throughout.</p> <p>— Minor lithologies include CARBONATE CLAYSTONE with increased levels of foraminifers, and thin, CALCITE-CEMENTED SANDSTONE beds, with dominant benthic foraminifers and subrounded to rounded quartz grains, intensely bioturbated, 3 to 6 cm thick.</p> <p>Soft, sandier intervals: Section 3, 27-48 cm, 77-92 cm, Section 4, 91-97 cm, and as drilling biscuits in Sections 7 and CC.</p> <p>Hard, cemented sandy beds: Section 3, 127-130 cm, Section 4, 69-73 cm, 75-78 cm.</p>	







SITE 1052 HOLE F CORE 3H

CORED 19.0-28.5 mbsf

1052F-3H

METERS	CORE AND SECTION LITHOLOGY	PHYSICAL STRUCTURES ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
						<p>late Eocene</p>	<p>SS</p> <p>SS</p> <p>PAL</p>		<p>NANNOFOSSIL OOZE</p> <p>Pale yellow (2.5Y 8/2) NANNOFOSSIL OOZE with faint burrow-mottling. Pyrite and limonitic specks and blebs scattered through core.</p> <p>SD Section 1, 100 cm</p> <p>SM Section 3, 69 cm: VITRIC ASH layer, 65-70 cm, bioturbated at top (22.65-22.70 mbsf).</p>







METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
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SITE 1052 HOLE F CORE 7H

CORED 57.0-66.5

1052F-7H

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES ACCESSORIES	ICHTNOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
							<p>middle Eocene</p>	<p>SS SS</p>	<p>vpl gy GN</p>	<p>NANNOFOSSIL OOZE</p> <p>Pale grayish green (10G 8/1) NANNOFOSSIL OOZE with pyrite blebs throughout. Moderate to heavily disturbed with unknown voids throughout core. Pieces of CARBONATE CHALK WITH NANNOFOSSILS occur in Section 2, 68-70 and 115-123 cm, Section 3, 50-60 and 118-127 cm, and Section CC, 35-38 cm, and are associated with drilling disturbance.</p>





SITE 1052 HOLE F CORE 10H

CORED 81.0-90.5 mbsf

1052F-10H

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHNOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
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SILICEOUS NANNOFOSSIL OOZE  
 Light greenish gray (8GY 7/1), massive with rare faint brown and black burrows throughout. Pyrite specks and burrow fills throughout.

19 cm: VITRIC ASH, 2 cm thick (87.19 mbsf).

lt gy GY

middle Eocene

PAL

METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
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								middle Eocene		vit gn GY	<p>SILICEOUS NANNOFOSSIL OOZE</p> <p>Vaguely burrow-mottled throughout; pyrite specs throughout; subtle alternations between lighter and darker pale greenish gray (10GY 8/1)</p>
									SS		<p>92-101 cm-dark VITRIC ASH, bioturbated top (98.92-99.01 mbsf)</p> <p>CC entirely to Paleo Lab</p>
									PAL		







METERS	CORE AND SECTION	LITHOLOGY	PHYSICAL STRUCTURES	ACCESSORIES	ICHTHOFOSSILS	FOSSILS	CORE DISTURBANCE	AGE	SAMPLES	COLOR	REMARKS
								middle Eocene — PAL	— SS pal gn GY		<p>SILICEOUS NANNOFOSSIL OOZE</p> <p>Light/dark alternations of very light greenish gray (10GY 8/1) to light greenish gray (10GY 7/1). Vaguely but heavily burrow-mottled throughout, visible especially around color transitions in Sections 1 and 2. Disseminated, patchy black pyrite throughout.</p> <p>Section 2, 62 cm, dark pyrite-rich firmground.</p> <p>CC entirely to Paleo Lab</p>