SITE 722 HOLE A CORE 1H CORED INTERVAL 2027.8-2037.6 mbsl; 0-9.8 mbsf

TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS *A/G; N23; *A/G; A/G *; NANNOFOSSILS *A/G; NN21 *Emiliania huxleyi*; L NN20 *Gephyrocapsa oceanica*; RADIOLARIANS *C/G; *Collosphaera tuberosa*; DIATOMS; BENTHIC FORAMINIFERS

PALEOMAGNETICS: Brunhes; ϕ=83.9 γ=1.62; ϕ=62.4 γ=1.73; ϕ=66.0 γ=1.63

PHYS. PROPERTIES

CHEMISTRY: IC=7.58 OC=0.35

SECTION: 1 2 3 4 5 6 7 CC

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: IW

LITHOLOGIC DESCRIPTION

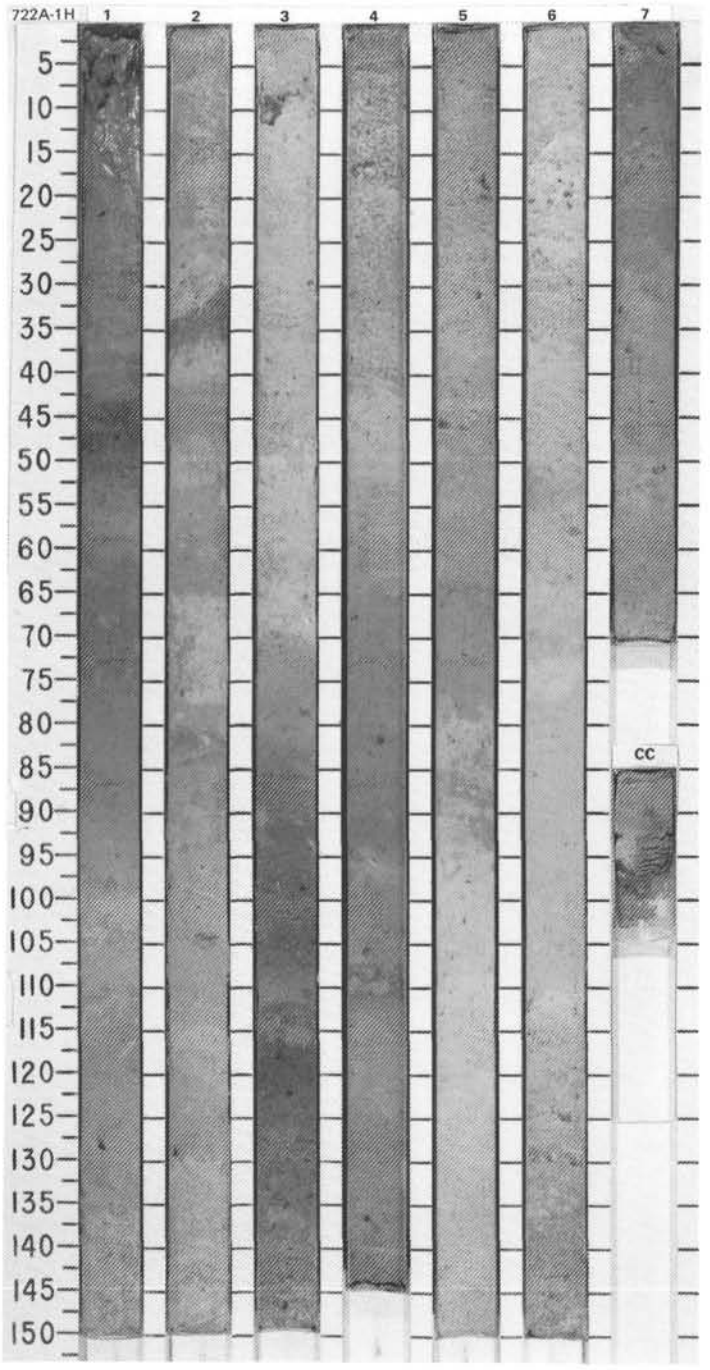
Interbedded NANNOFOSSIL OOZE and FORAMINIFER-BEARING NANNOFOSSIL OOZE

Section 1, 0-5 cm, is highly disturbed.

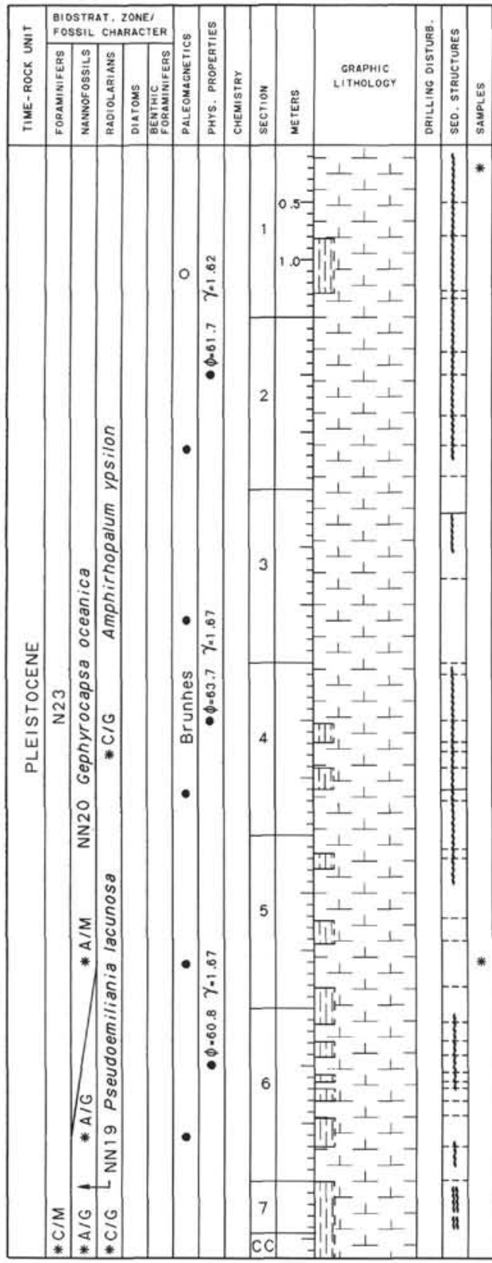
Major lithology: Interbedded nannofossil ooze and foraminifer-bearing nannofossil ooze. Contacts are gradational. Beds range from light greenish gray (5GY 7/1, 10Y 6/2) to olive gray (5Y 5/2) and olive (5Y 4/3, 5/3). Bioturbation is minor to moderate throughout, with some pyrite(?)-impregnated burrows.

SMEAR SLIDE SUMMARY (%):

	3, 121 D	6, 20 D
TEXTURE:		
Sand	10	3
Silt	20	17
Clay	70	80
COMPOSITION:		
Access. minerals	1	Tr
Clay	10	5
Feldspar		1
Foraminifers	10	2
Volcanic glass	Tr	Tr
Inorganic calcite	18	10
Mica		1
Nannofossils	60	80
Quartz	1	1
Sponge spicules	Tr	



SITE 722 HOLE A CORE 2H CORED INTERVAL 2037.6-2047.2 mbsl; 9.8-19.4 mbsf



LITHOLOGIC DESCRIPTION

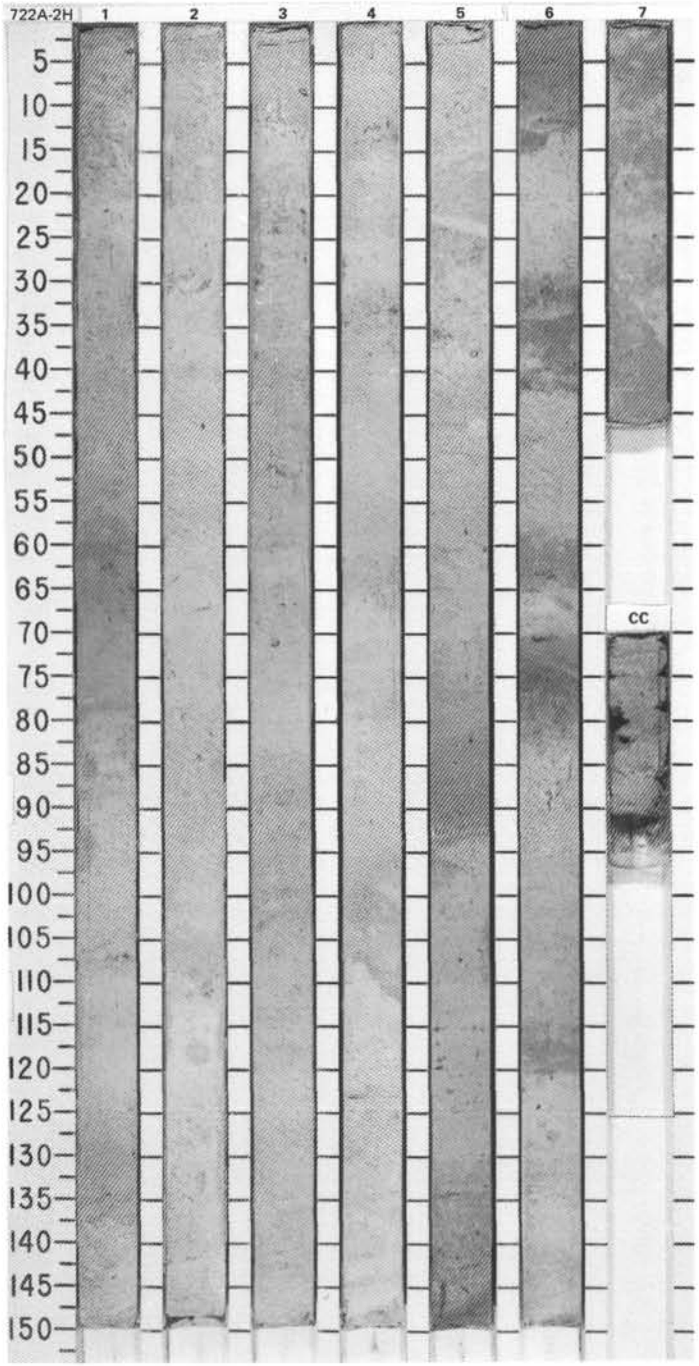
Interbedded NANNOFOSSIL OOZE and FORAMINIFER-BEARING NANNOFOSSIL OOZE

Entire core is undisturbed.

Major lithology: Interbedded NANNOFOSSIL OOZE and FORAMINIFER-BEARING NANNOFOSSIL OOZE. Contacts are gradational. Beds range from light gray (5Y 7/1) to light olive gray (5Y 7/2, 6/2) and light olive (5Y 6/3, 5/3). Bioturbation is minor to moderate throughout, with some pyrite(?)-impregnated burrows.

SMEAR SLIDE SUMMARY (%):

	1, 20 D	5, 107 D
TEXTURE:		
Sand	2	10
Silt	8	20
Clay	90	70
COMPOSITION:		
Access. minerals	Tr	1
Clay	5	10
Dolomite		Tr
Feldspar		1
Foraminifers	2	5
Volcanic glass		1
Inorganic calcite	8	20
Mica	Tr	
Nannofossils	85	60
Quartz	Tr	2



SITE 722 HOLE A CORE 3H CORED INTERVAL 2047.2-2056.8 mbsl; 19.4-29.0 mbsf

TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER:
- FORAMINIFERS: *A/M
- NANNOFOSSILS: N22; NN19 *Pseudoemiliania lacunosa*
- RADIOLARIANS: *C/G *Amphirhopalum ypsilon*
- DIATOMS
- BENTHIC FORAMINIFERS

PALEOMAGNETICS: Brunhes

PHYS. PROPERTIES: ϕ=67.2 γ=1.56; ϕ=63.4 γ=1.64; ϕ=65.6 γ=1.59

CHEMISTRY: IC=8.39 OC=0.83

SECTION: 1, 2, 3, 4, 5, 6, 7, CC

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.: O

SED. STRUCTURES: *

SAMPLES: OG, IW

LITHOLOGIC DESCRIPTION

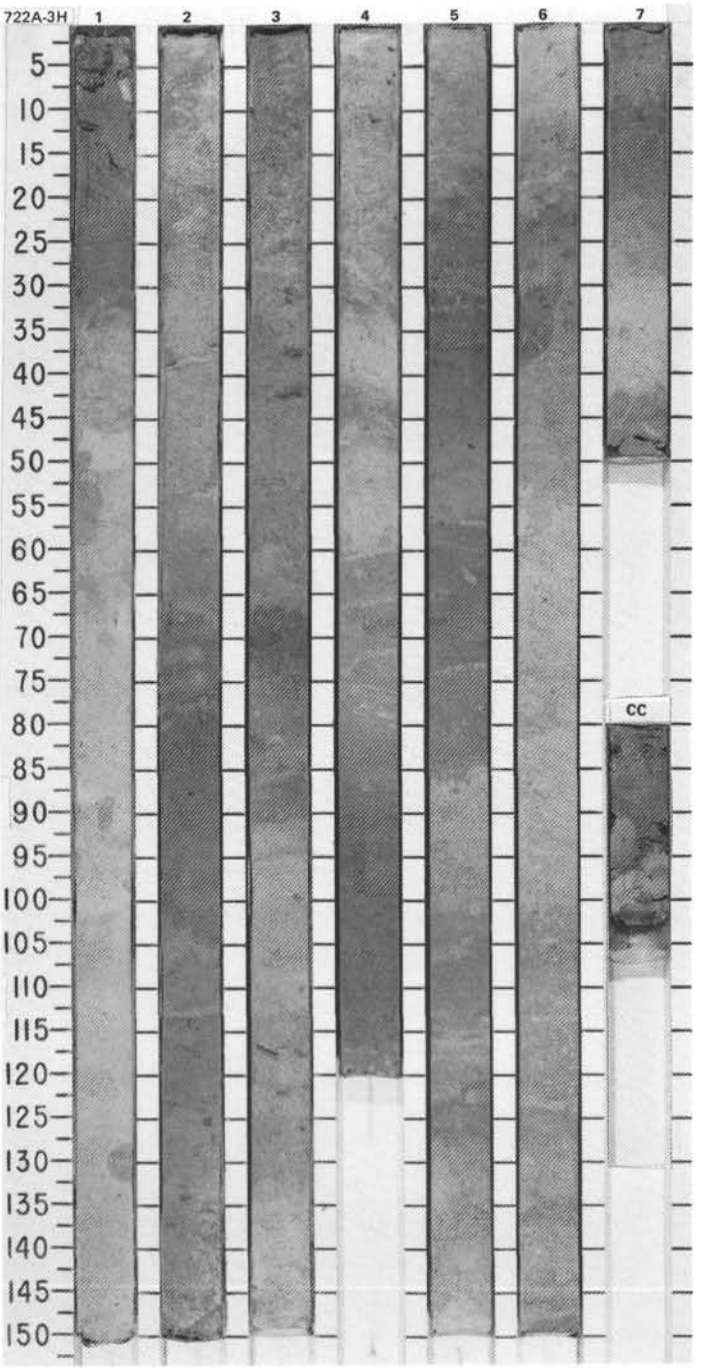
Interbedded NANNOFOSSIL OOZE and FORAMINIFER-BEARING NANNOFOSSIL OOZE

Section 1, 1-10 cm, soupy; CC, 10-20 cm, moderately disturbed.

Major lithology: Interbedded NANNOFOSSIL OOZE and FORAMINIFER-BEARING NANNOFOSSIL OOZE. Beds range from light olive gray (5Y 6/2) to light gray (5Y 7/1), olive (5Y 4/3, 5/3), and pale olive (5Y 6/3). Contacts are gradational. Bioturbation is minor to moderate throughout.

SMEAR SLIDE SUMMARY (%):

	2, 86 D	6, 65 D
TEXTURE:		
Sand	15	
Silt	10	15
Clay	75	85
COMPOSITION:		
Access. minerals	1	
Clay	10	5
Dolomite		Tr
Foraminifers	10	5
Volcanic glass	Tr	
Inorganic calcite	18	15
Nannofossils	60	75
Quartz	1	Tr
Radiolarians	Tr	



SITE 722 HOLE A CORE 4H CORED INTERVAL 2056.8-2066.4 mbsl; 29.0-38.6 mbsf

TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER
- FORAMINIFERS: *C/M
- NANNOFOSSILS: N22; NN19 *Pseudoemiliania lacunosa*; *A/G
- RADIOLARIANS: *C/G; *C/G *Amphirhopalum ypsilon*
- DIATOMS
- BENTHIC FORAMINIFERS

PALEOMAGNETICS: o • Jaramillo • • Brunhes • •

PHYS. PROPERTIES: ●ϕ=67.1 γ=1.61; ●ϕ=60.1 γ=1.72; ●ϕ=61.3 γ=1.70

CHEMISTRY

SECTION: 1, 2, 3, 4, 5, 6, 7, CC

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: *, *, *

LITHOLOGIC DESCRIPTION

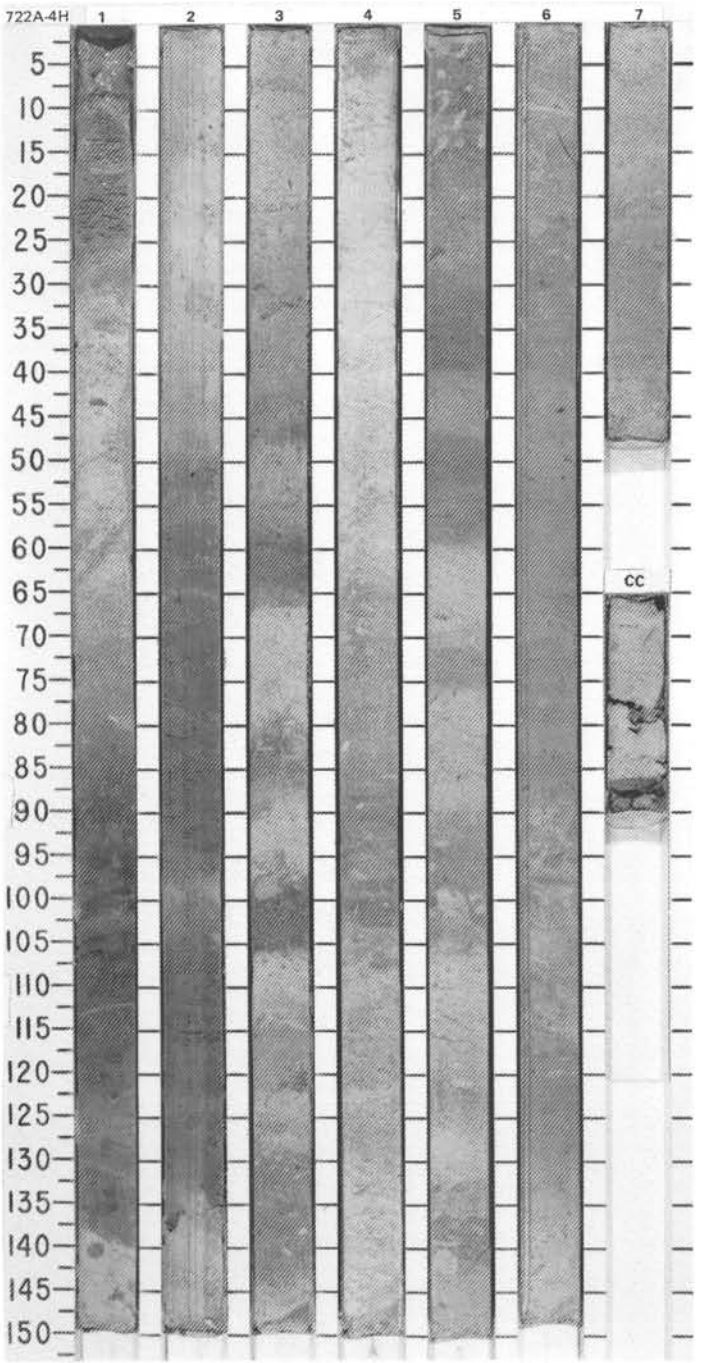
Interbedded NANNOFOSSIL OOZE and MARLY NANNOFOSSIL OOZE

Entire core is undisturbed to slightly disturbed.

Major lithology: Interbedded NANNOFOSSIL OOZE and MARLY NANNOFOSSIL OOZE. Contacts are gradational. Beds range from light olive gray (5Y 6/2) to light gray (5Y 7/2) and light olive (5Y 6/3, 5/3). Bioturbation is minor to moderate throughout.

SMEAR SLIDE SUMMARY (%):

	1, 105 M	4, 43 D	5, 35 D
TEXTURE:			
Sand	35	5	5
Silt	25	10	15
Clay	40	85	80
COMPOSITION:			
Access. minerals	1	1	1
Clay			20
Diatoms		80	
Dolomite	1		
Foraminifers	40	2	5
Volcanic glass	Tr		Tr
Inorganic calcite	16	12	13
Mica			Tr
Nannofossils	40	5	60
Quartz	2	Tr	1



TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER:
- FORAMINIFERS: *C/M — N22
- NANNOFOSSILS: *A/G — NN19 *Pseudoemiliania lacunosa*
- RADIOLARIANS: *C/G — * C/M *Amphirhopalum ypsilon*
- DIATOMS
- BENTHIC FORAMINIFERS: O
- PALEOMAGNETICS: O Matuyama O
- PHYS. PROPERTIES: ● ϕ=64.3 γ=1.65; ● ϕ=59.9 γ=1.74; ● ϕ=64.5 γ=1.65
- CHEMISTRY

SECTION: 1, 2, 3, 4, 5, 6, 7, CC

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.: OOOO

SED. STRUCTURES: *

SAMPLES: *, *

LITHOLOGIC DESCRIPTION

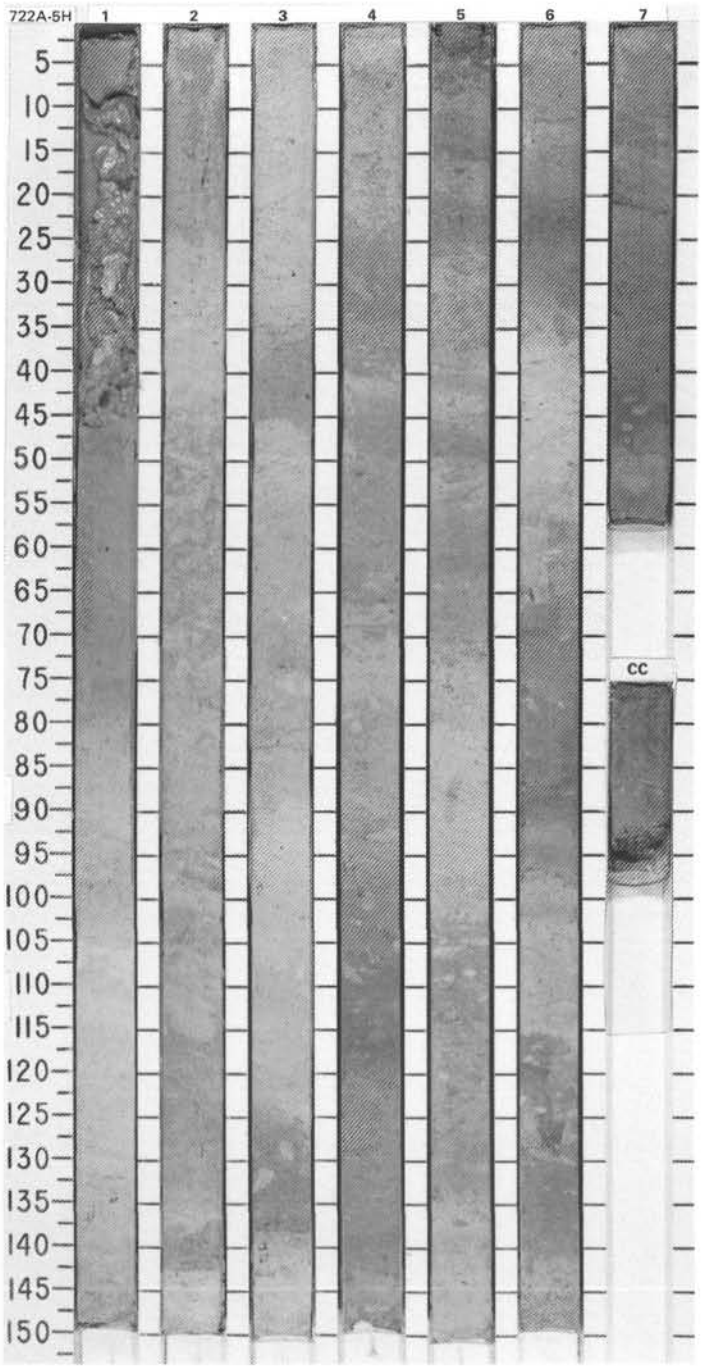
Interbedded NANNOFOSSIL OOZE and FORAMINIFER-BEARING NANNOFOSSIL OOZE

Section 1, 0-47 cm, is soupy.

Major lithology: Interbedded NANNOFOSSIL OOZE and FORAMINIFER-BEARING NANNOFOSSIL OOZE. Contacts are gradational. Beds range from light olive gray (5Y 7/2, 6/2) to light gray (5Y 7/2). Bioturbation is minor throughout.

SMEAR SLIDE SUMMARY (%):

	1, 59 D	6, 44 D
TEXTURE:		
Silt	20	20
Clay	80	80
COMPOSITION:		
Clay	10	10
Foraminifers	5	5
Inorganic calcite	5	5
Mica		Tr
Nannofossils	80	75
Quartz		5



SITE 722 HOLE A CORE 6H CORED INTERVAL 2076.0-2085.3 mbsl: 48.2-57.5 mbsf

TIME-ROCK UNIT: PLIOCENE / PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS *F/M; NANNOFOSSILS N22 / NN19 *A/G; RADIOLARIANS *C/G; DIATOMS *C/G; BENTHIC FORAMINIFERS

Pseudoemiliania lacunosa

Anthocyrtidium angulare

Pterocanium prismatium

PALEOMAGNETICS: O O O O

Matuyama

PHYS. PROPERTIES: ● ϕ=59.6 γ=1.73 ● ϕ=60.7 γ=1.68 ● ϕ=62.3 γ=1.68

CHEMISTRY: ● IC=5.76 OC=1.13

SECTION: 1 2 3 4 5 6 7 CC

METERS: 0.5 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: * OG IW

LITHOLOGIC DESCRIPTION

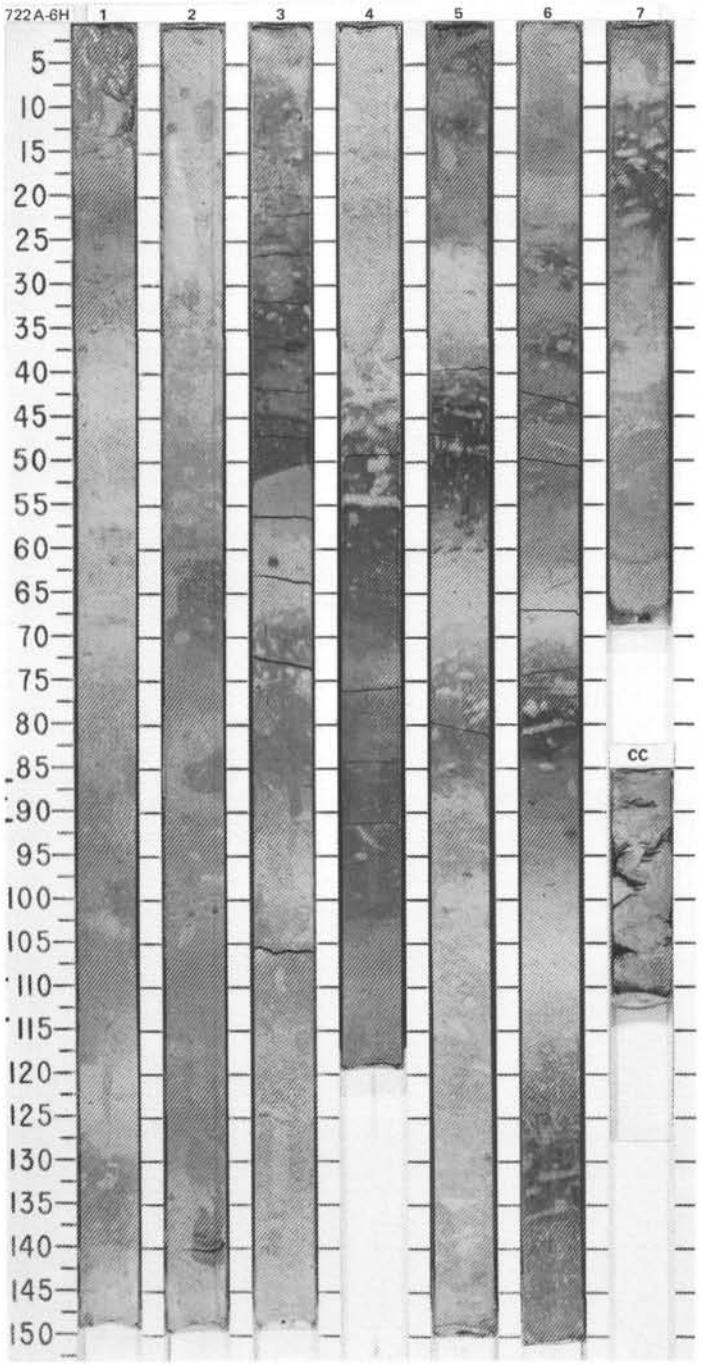
Interbedded FORAMINIFER BEARING NANNOFOSSIL OOZE and MARLY NANNOFOSSIL OOZE

Section 1, 0-15 cm, is soupy.

Major lithology: Interbedded FORAMINIFER-BEARING NANNOFOSSIL OOZE and MARLY NANNOFOSSIL OOZE. Contacts are gradational. Beds range from light gray (5Y 7/2) to olive gray (5Y 6/1, 6/2), pale olive (5Y 6/3), and olive (5Y 5/3, 4/3). Bioturbation is minor to moderate throughout.

SMEAR SLIDE SUMMARY (%):

	3, 49 D
TEXTURE:	
Sand	5
Silt	40
Clay	55
COMPOSITION:	
Clay	30
Feldspar	Tr
Foraminifers	5
Inorganic calcite	30
Nannofossils	30
Quartz	5



SITE 722 HOLE A CORE 7H CORED INTERVAL 2085.3-2095.0 mbsl; 57.5-67.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLIOCENE	*C/M	N18 - N21												
	*A/M	NN18 *Discoaster brouweri*	NN19 *Pseudoemiliania emiliania*											
	*C/G		*C/G *Pterocanium prismatium*			O	● ϕ-60.1 γ-1.69		1	0.5				
						O	Matuyama		2					
						O	● ϕ-61.4 γ-1.72		3					
						O	● ϕ-59.4 γ-1.73		4					*
									5					*
									6					PP IW
									7					
									CC					

LITHOLOGIC DESCRIPTION

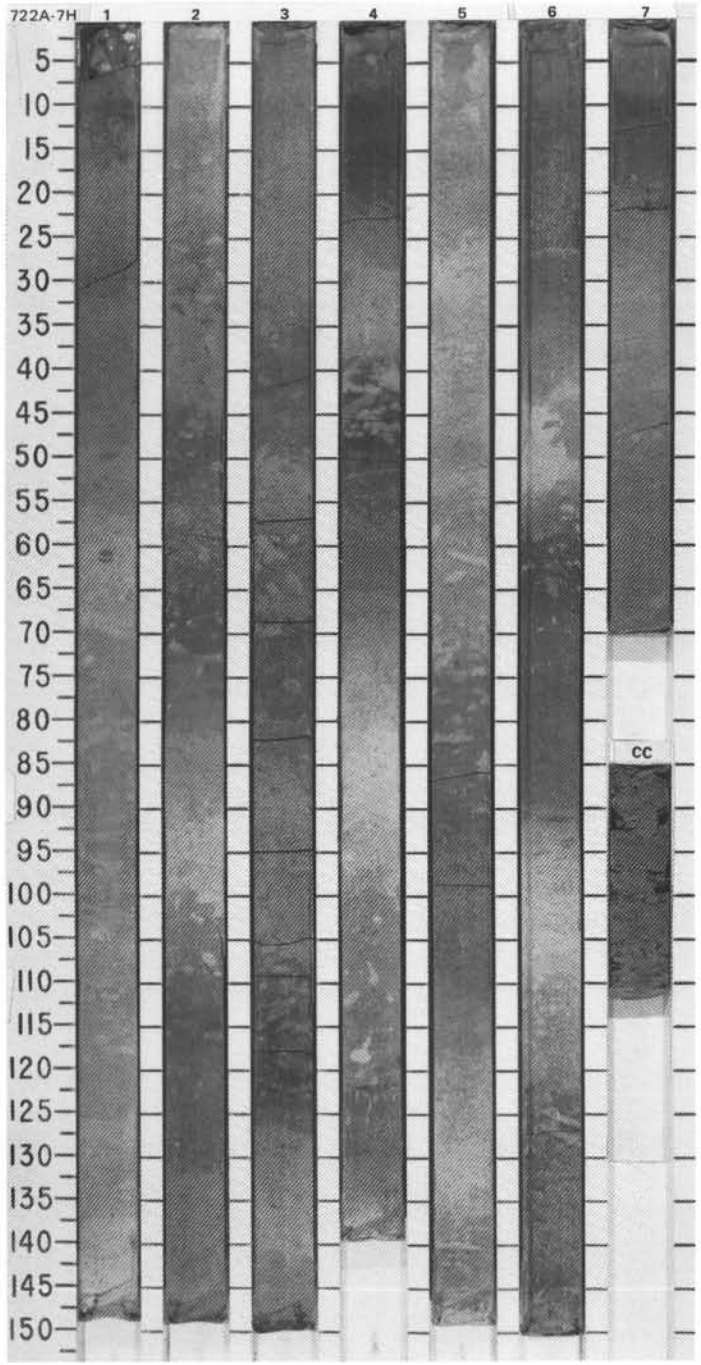
Interbedded NANNOFOSSIL OOZE and MARLY NANNOFOSSIL OOZE

Section 1, 0-10 cm, soupy; Section 1, 140-150 cm, slightly disturbed.

Major lithology: Interbedded NANNOFOSSIL OOZE and MARLY NANNOFOSSIL OOZE. Contacts are gradational. Beds range from light olive gray (5Y 6/2) to light gray (5Y 7/2), olive (5Y 4/4, 5/4, 5/3, 4/3), pale olive (5Y 6/3), and dark olive gray (5Y 3/2). Bioturbation is minor to moderate throughout.

SMEAR SLIDE SUMMARY (%):

	4, 13 D	4, 86 D
TEXTURE:		
Sand	5	5
Silt	20	10
Clay	75	
COMPOSITION:		
Access. minerals	2	2
Clay	25	20
Diatoms	Tr	
Foraminifers	5	5
Inorganic calcite	15	3
Mica	3	
Nannofossils	40	70
Quartz	10	
Radiolarians	Tr	
Sponge spicules	Tr	



SITE 722 HOLE A CORE 8H CORED INTERVAL 2095.0-2104.6 mbsl; 67.20-76.80 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLIOCENE	*C/M *A/M	N18 - N21							1	0.5				
	*A/M NN16 - NN17	NN18 *Discoaster brouweri*	*A/M			O				1.0				
	*C/G		*C/G *Pterocanium prismatium*				● ϕ=60.3 γ=1.69		2					
						O								
							● ϕ=59.4 γ=1.70		3					
						O								
							● ϕ=59.1 γ=1.71		4					
						O			5					
									6					
						O			7					
									CC					

LITHOLOGIC DESCRIPTION

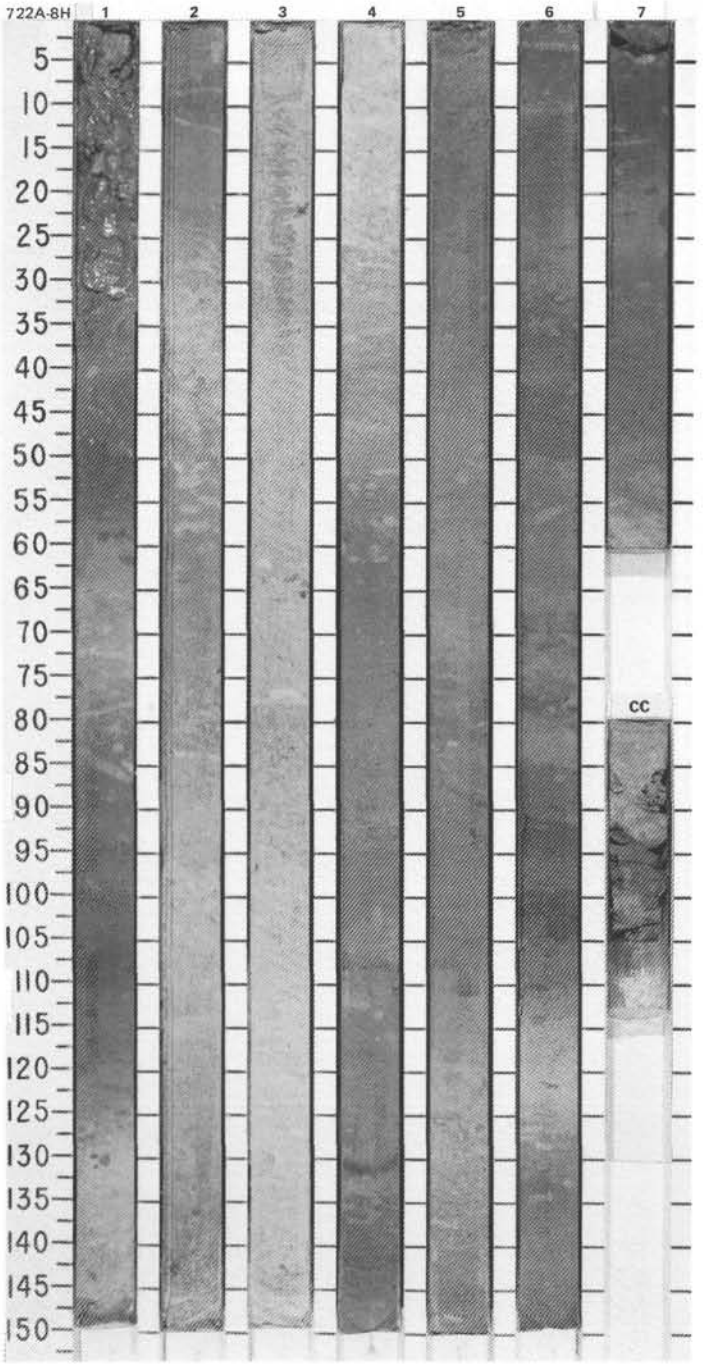
Interbedded NANNOFOSSIL OOZE and MARLY NANNOFOSSIL OOZE

Section 1, 0-35 cm, soupy; CC moderately disturbed.

Major lithology: Interbedded NANNOFOSSIL OOZE and MARLY NANNOFOSSIL OOZE. Contacts are gradational. Beds range from light olive gray (5Y 6/2) to olive gray (5Y 5/2), olive (5Y 5/3, 5/4), and pale olive (5Y 6/3). Bioturbation is minor to moderate throughout.

SMEAR SLIDE SUMMARY (%):

	4, 80 D
TEXTURE:	
Sand	5
Silt	30
Clay	65
COMPOSITION:	
Access. minerals	Tr
Clay	25
Diatoms	Tr
Dolomite	Tr
Foraminifers	5
Inorganic calcite	5
Mica	Tr
Nannofossils	65
Pyrite	Tr
Quartz	Tr
Radiolarians	Tr



SITE 722 HOLE A CORE 9H CORED INTERVAL 2104.6-2114.3 mbsl; 76.8-86.5 mbsf

TIME-ROCK UNIT: PLIOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER:
- *F/M: N18 - N21
- *A/G: NN16 *Discoaster surculus*-NN17 *Discoaster pentaradiatus*
- *C/G: *Spongaster penlas*

FORAMINIFERS | NANNOFOSSILS | RADIOLARIANS | DIATOMS | BENTHIC FORAMINIFERS

PALEOMAGNETICS: ● Gauss ● O O Matuyama O O

PHYS. PROPERTIES: ● ϕ=61.3 γ=1.66 ● ϕ=63.9 γ=1.60 ● ϕ=65.7 γ=1.62

CHEMISTRY: ● IC=8.33 QC=2.10

SECTION: 1 2 3 4 5 6 7 CC

METERS: 0.5 1.0

GRAPHIC LITHOLOGY: VDII 76.87, VDII 76.92

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: OG IW

LITHOLOGIC DESCRIPTION

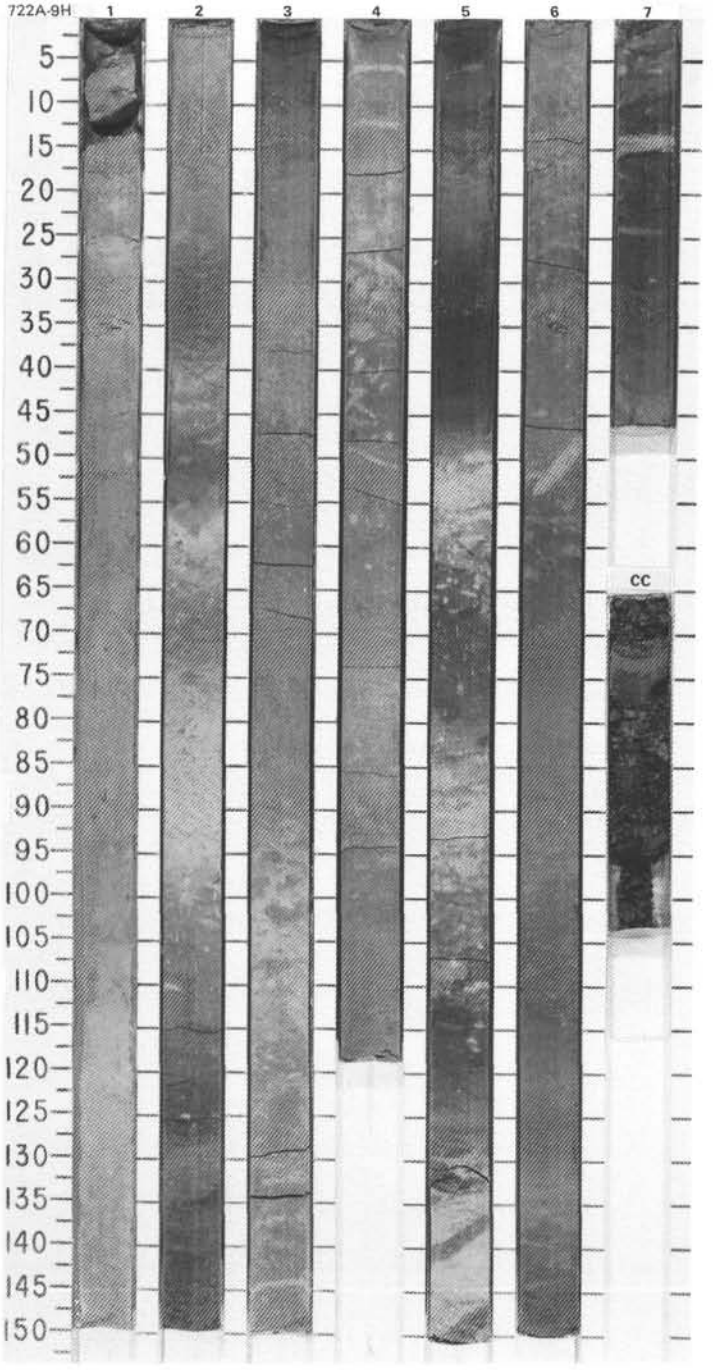
Interbedded NANNOFOSSIL OOZE and MARLY NANNOFOSSIL OOZE

Section 1, 5-10 cm, and CC are very disturbed.

Major lithology: NANNOFOSSIL OOZE and MARLY NANNOFOSSIL OOZE. Contacts are gradational. Beds range from light olive gray (5Y 6/2) to light gray (5Y 4/2), olive (5Y 4/4, 4/3, 5/4, 5/3), and dark olive gray (5Y 3/2). Section 5, 125-135 cm, is strongly bioturbated. Bioturbation is minor to moderate throughout the remainder of the core.

SMEAR SLIDE SUMMARY (%):

	5, 39 D	6, 52 M
TEXTURE:		
Silt	20	10
Clay	80	90
COMPOSITION:		
Access. minerals	2	
Clay	29	10
Diatoms	Tr	
Foraminifers	3	5
Gypsum		Tr
Inorganic calcite	4	5
Nannofossils	57	80
Quartz	4	
Radiolarians		Tr
Sponge spicules	Tr	



SITE 722 HOLE A CORE 10X CORED INTERVAL 2114.3-2124.0 mbsl; 86.5-96.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLIOCENE	*F/M	N18 - N21							1	0.5	VOID 86.74			*
	*A/M	NN16 *Discoaster surculus*-NN17 *Discoaster pentaradiatus*							2	1.0				
	*C/G	* C/G	*Spongaster pentas*						3					*
									4					
						•	•		5					
						•	Gauss	•						
							• ϕ=64.5 γ=1.66	• ϕ=64.3 γ=1.60	CC					

LITHOLOGIC DESCRIPTION

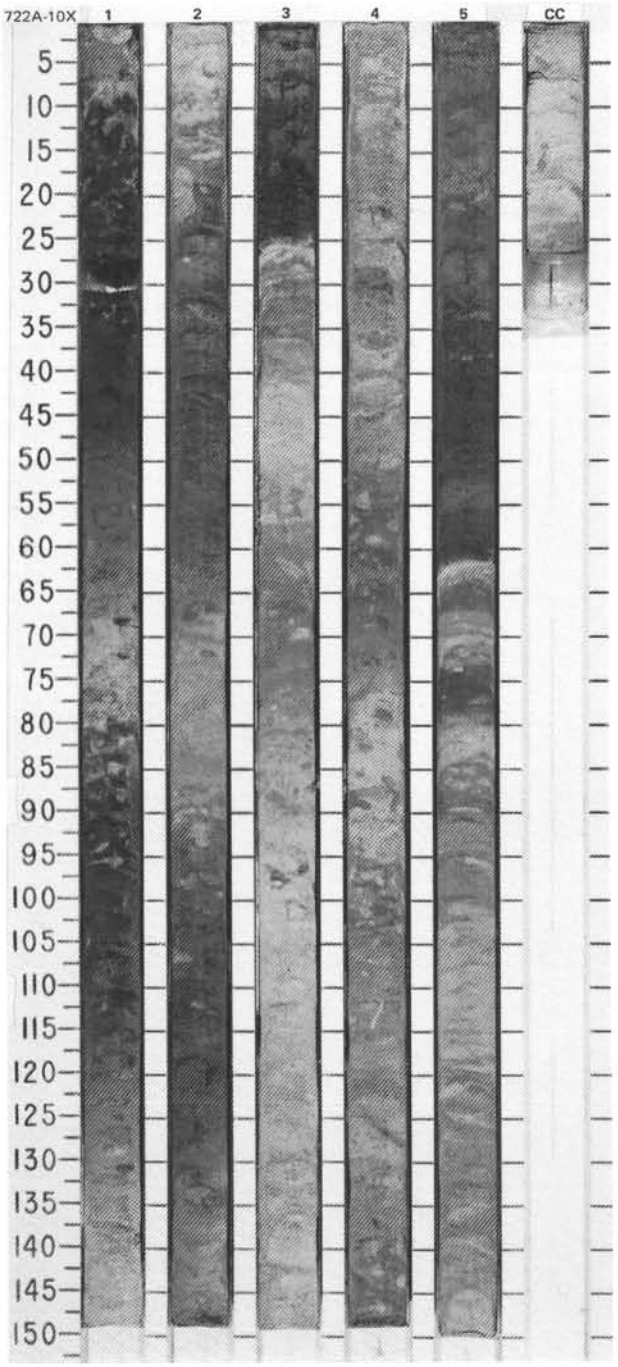
Interbedded NANNOFOSSIL OOZE, FORAMINIFER-BEARING NANNOFOSSIL OOZE, and MARLY NANNOFOSSIL OOZE

Section 1, 1-10 cm, is moderately disturbed.

Major lithology: Interbedded NANNOFOSSIL OOZE, FORAMINIFER-BEARING NANNOFOSSIL OOZE, and MARLY NANNOFOSSIL OOZE. Contacts are gradational. Beds range from light olive gray (5Y 6/2) to olive gray (5Y 5/2), olive (5Y 4/3, 5/3, 5/4), and dark olive gray (5Y 3/2). Bioturbation is minor to moderate throughout.

SMEAR SLIDE SUMMARY (%):

	1, 108 D	3, 108 D
TEXTURE:		
Silt	20	25
Clay	80	75
COMPOSITION:		
Clay	10	10
Diatoms	Tr	Tr
Dolomite		Tr
Foraminifers	Tr	10
Inorganic calcite	10	15
Nannofossils	80	64
Quartz	Tr	Tr
Radiolarians	Tr	1
Silicoflagellates		Tr



SITE 722 HOLE A CORE 11X CORED INTERVAL 2124.0-2133.7 mbsl; 96.2-105.9 mbsf

TIME-ROCK UNIT	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLIOCENE	*C/G	*A/G	*C/G			• Gauss • O	• ϕ=61.7 γ=1.70 • ϕ=64.0 γ=1.70 • ϕ=62.7 γ=1.66		1 2 3 4 5 6 7 CC	0.5 1.0				*

BIOSTRAT. ZONE/ FOSSIL CHARACTER

N18 - N21

NN16 *Discoaster surculus* - NN17 *Discoaster pentaradiatus*

* C/G *Spongaster pentas*

LITHOLOGIC DESCRIPTION

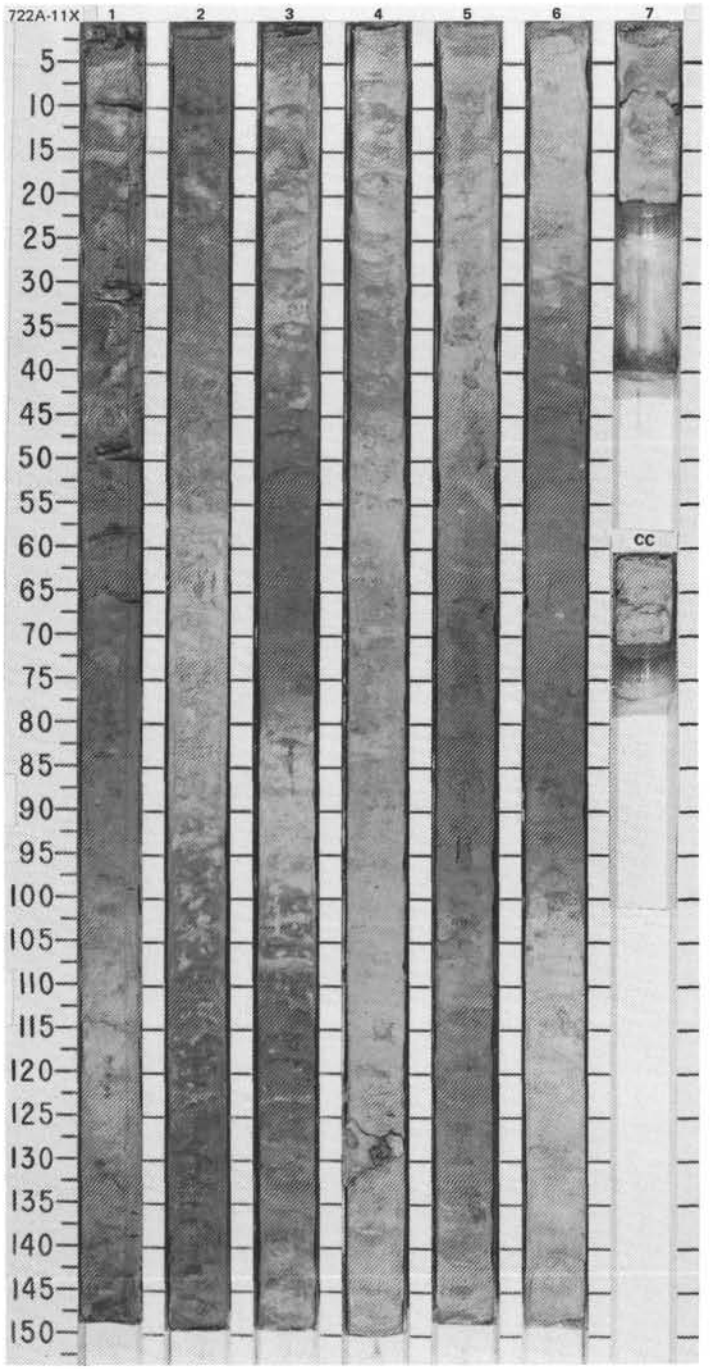
NANNOFOSSIL OOZE

Section 1, 0-50 cm, is very disturbed. Section 1, 50-150 cm, Section 3, 0-80 cm, Section 5, 15-25 cm, and CC are moderately disturbed. Section 2, 0-150 cm, is slightly disturbed.

Major lithology: NANNOFOSSIL OOZE. Beds range from gray (5Y 6/1) to light olive gray (5Y 6/2), light greenish gray (10Y 6/1), and olive (5Y 5/3, 4/3, 4/4). Contacts are gradational. Bioturbation is minor to moderate throughout.

SMEAR SLIDE SUMMARY (%):

	4, 100 D
TEXTURE:	
Silt	20
Clay	80
COMPOSITION:	
Clay	10
Diatoms	Tr
Dolomite	Tr
Foraminifers	5
Inorganic calcite	5
Nannofossils	75
Quartz	Tr
Radiolarians	5
Silicoflagellates	Tr



SITE 722 HOLE A CORE 12X CORED INTERVAL 2133.7-2143.4 mbsl; 105.9-115.6 mbsf

TIME-ROCK UNIT: UPPERMOST MIOCENE - PLIOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER:
- FORAMINIFERS: *C/M N18 - N21; *A/M-G NN12 *Amaurolithus tricorniculatus*-NN15 *Reticulofenestra pseudoumbilica*; *C/G *Spongaster pentas*
- NANNOFOSSILS: *A/M
- RADIOLARIANS: *C/G
- DIATOMS
- BENTHIC FORAMINIFERS

PALEOMAGNETICS: O O
PHYS. PROPERTIES: ● ϕ=61.6 γ=1.76; ● ϕ=61.5 γ=1.75; ● ϕ=59.9 γ=1.70
CHEMISTRY: ● IC=9.40 OC=0.41

Gilbert

SECTION: 1 2 3 4 5 6

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: * OG IW

LITHOLOGIC DESCRIPTION

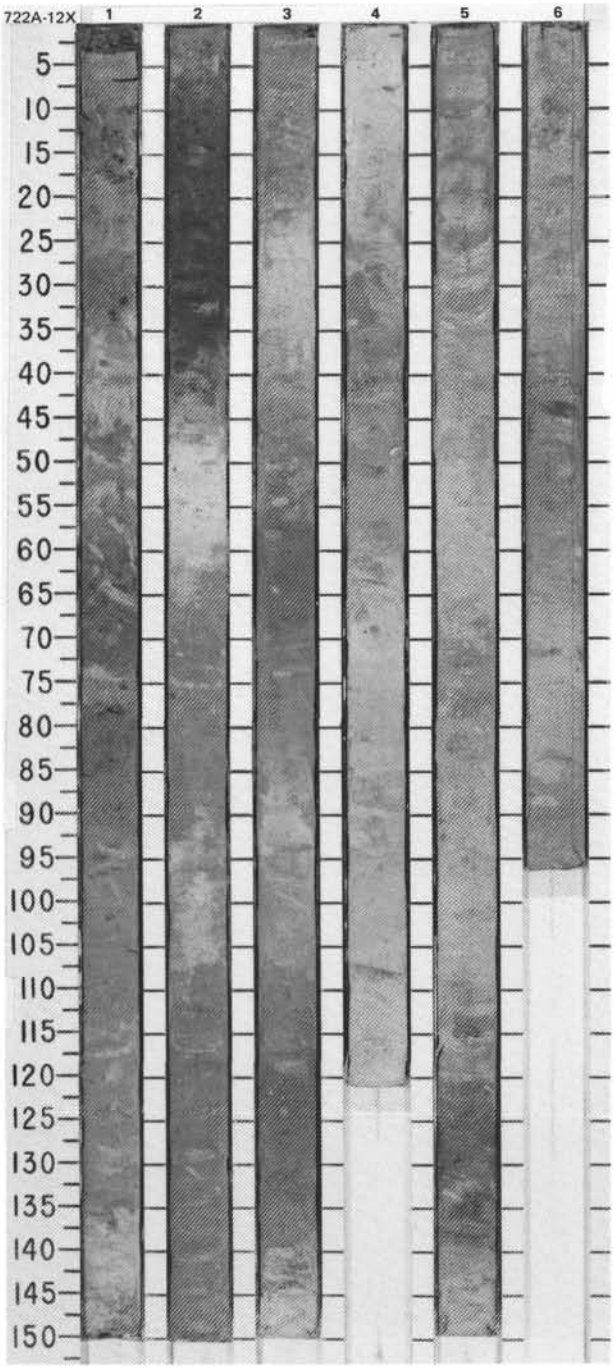
Interbedded NANNOFOSSIL OOZE and FORAMINIFER-BEARING NANNOFOSSIL OOZE

Section 1, 0-10 cm, is moderately disturbed. Section 3, 0-150 cm, is slightly disturbed.

Major lithology: Interbedded NANNOFOSSIL OOZE and FORAMINIFER-BEARING NANNOFOSSIL OOZE. Contacts are gradational. Beds range from light olive gray (5Y 6/2) to light gray (5Y 7/1), olive gray (5Y 5/2), and olive (5Y 5/3, 5/4, 4/4). Bioturbation is minor throughout.

SMEAR SLIDE SUMMARY (%):

	4, 70 D
TEXTURE:	
Silt	20
Clay	80
COMPOSITION:	
Clay	10
Diatoms	Tr
Foraminifers	10
Inorganic calcite	5
Nannofossils	75
Quartz	Tr
Radiolarians	Tr



TIME-ROCK UNIT: LOWER PLIOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER:
- FORAMINIFERS: *F/M N18 - N21
- NANNOFOSSILS: *A/G NN12 *Amaurolithus tricorniculatus* - NN15 *Reticulofenestra pseudoumbilica*
- RADIOLARIANS: *C/G *C/G* *Spongaster pentas*
- DIATOMS
- BENTHIC FORAMINIFERS

PALEOMAGNETICS: O O Gilbert O O
PHYS. PROPERTIES: ● ϕ=58.4 γ=1.72 ● ϕ=64.1 γ=1.71 ● ϕ=61.7 γ=1.71
CHEMISTRY

SECTION: 1 2 3 4 5 6 7 CC
METERS: 0.5 1.0

GRAPHIC LITHOLOGY: VOID 116.7

DRILLING DISTURB.
SED. STRUCTURES
SAMPLES: *

LITHOLOGIC DESCRIPTION

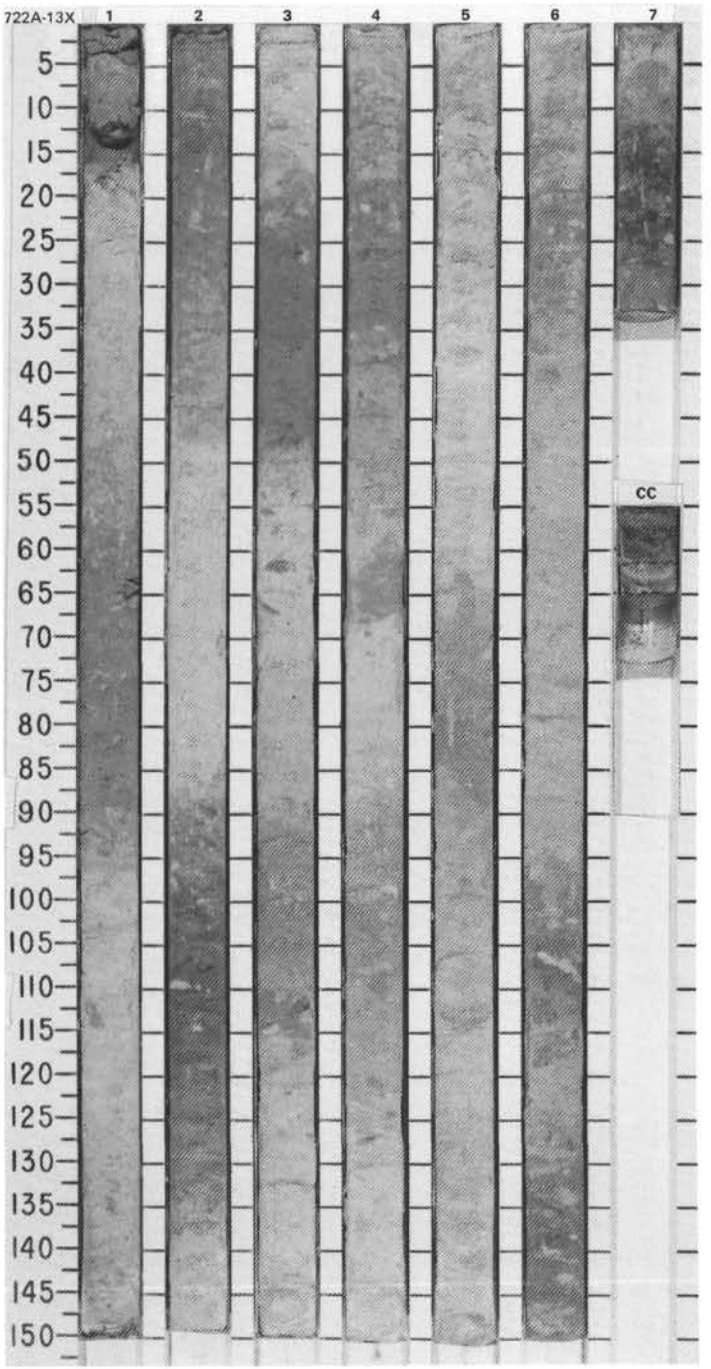
NANNOFOSSIL OOZE

Section 1, 0-10 cm, and Section 6, 110-150 cm, are moderately disturbed. Section 2, 0 cm, to Section 3, 150 cm, is slightly disturbed.

Major lithology: NANNOFOSSIL OOZE. Beds range from gray (5Y 6/1) to light olive gray (5Y 6/2), light gray (5Y 7/1), olive gray (5Y 5/2), olive (5Y 5/3, 4/3), and pale olive (5Y 6/3). Contacts are gradational. Bioturbation is minor throughout.

SMEAR SLIDE SUMMARY (%):

	3, 31 D
TEXTURE:	
Sand	5
Silt	30
Clay	65
COMPOSITION:	
Access. minerals	2
Clay	25
Foraminifers	5
Inorganic calcite	15
Mica	3
Nannofossils	45
Quartz	5



SITE 722 HOLE A CORE 14X CORED INTERVAL 2153.1-2162.7 mbsl; 125.3-134.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
LOWER PLIOCENE	C/M * N18 - N21	NN12 *Amaurolithus tricorniculatus*-NN15 *Reticulofenestra pseudoumbilica*	C/M * *Spongaster pentas*			Gilbert O	●ϕ=60.8 γ=1.68	●ϕ=61.6 γ=1.68	1 2 3 4 5 CC	0.5 1.0				*

LITHOLOGIC DESCRIPTION

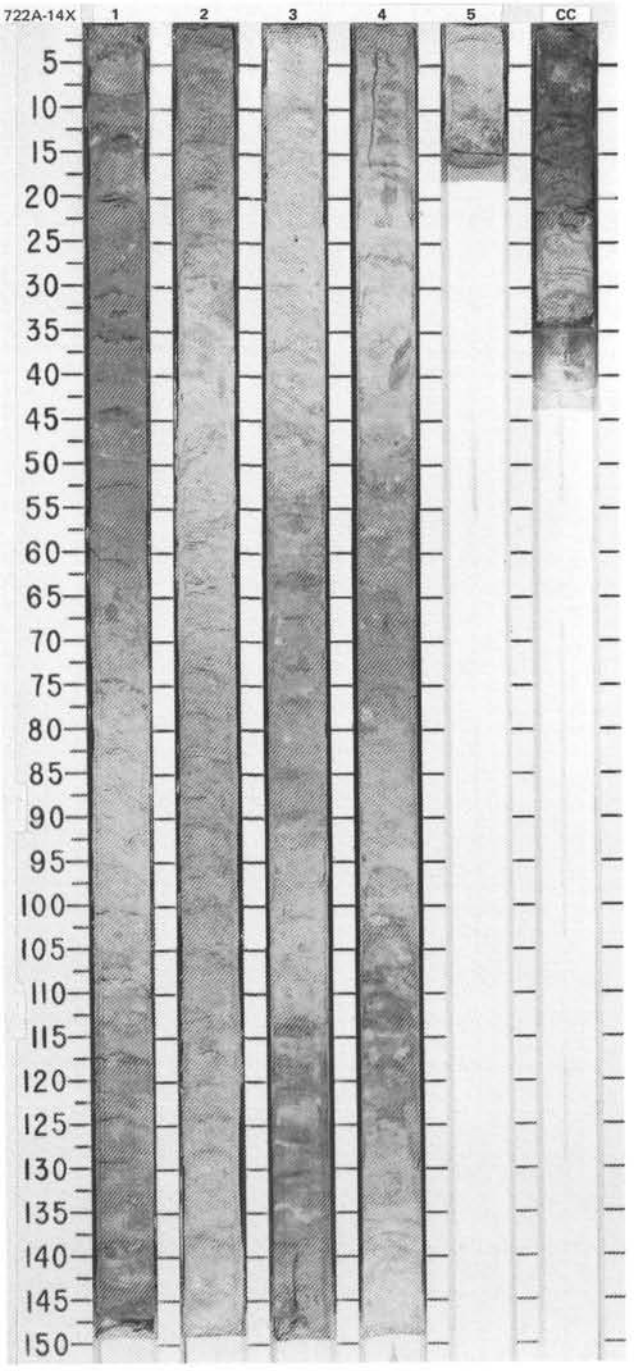
Interbedded NANNOFOSSIL OOZE and FORAMINIFER-BEARING NANNOFOSSIL OOZE

Section 1, 0-30 cm, is moderately disturbed.

Major lithology: Interbedded NANNOFOSSIL OOZE and FORAMINIFER-BEARING NANNOFOSSIL OOZE. Contacts are gradational. Beds range from gray (5Y 6/1) to light olive gray (5Y 6/2), light gray (5Y 7/1, olive (5Y 5/3, 5/4), and pale olive (5Y 6/3). Bioturbation is minor throughout.

SMEAR SLIDE SUMMARY (%):

	3, 23 D
TEXTURE:	
Silt	10
Clay	90
COMPOSITION:	
Clay	15
Foraminifers	5
Gypsum	Tr
Inorganic calcite	5
Nannofossils	74
Quartz	Tr
Radiolarians	1
Sponge spicules	



SITE 722 HOLE A CORE 15X CORED INTERVAL 2162.7-2172.4 mbsl; 134.9-144.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
LOWER PLIOCENE	N18 - N21 * C/G	NN12 *Amaurolithus tricorniculatus* -NN15 *Reticulofenestra pseudoumbilica* * A/M-G	*Spongaster pentas* * C/G * C/G			Gilbert	● φ=62.5 γ=1.69; ● φ=63.1 γ=1.70; ● φ=61.3 γ=1.67		1, 2, 3, 4, 5, 6, 7, CC	0.5, 1.0	VOID 135.0			*; *, OG, IW	see below

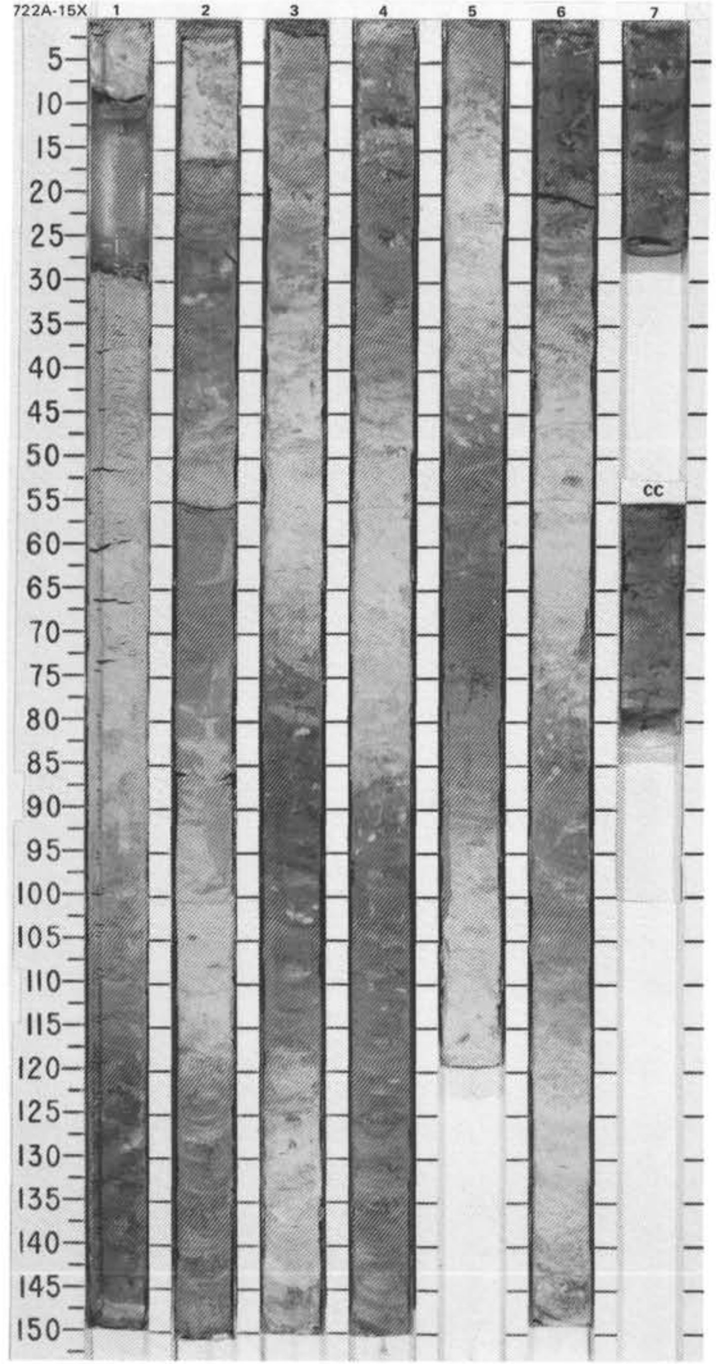
NANNOFOSSIL OOZE

Entire core is undisturbed.

Major lithology: NANNOFOSSIL OOZE. Beds range from light gray (5Y 7/1) to light olive gray (5Y 6/2) and olive (5Y 5/3, 4/4). Contacts are gradational. Bioturbation is minor to moderate throughout.

SMEAR SLIDE SUMMARY (%):

	1, 136 *D*	5, 108 *D*
TEXTURE:		
Sand	3	
Silt	12	5
Clay	85	95
COMPOSITION:		
Access. minerals	1	
Clay	15	4
Diatoms	Tr	1
Feldspar	Tr	
Foraminifers	2	Tr
Volcanic glass	Tr	
Inorganic calcite	10	5
Mica	1	Tr
Nannofossils	70	90
Quartz	1	
Radiolarians	Tr	Tr
Sponge spicules		Tr



SITE 722 HOLE A CORE 16X CORED INTERVAL 2172.4-2182.1 mbsl; 144.6-154.3 mbsf

TIME-ROCK UNIT: LOWER PLIOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER:
- FORAMINIFERS: *C/M; N18 - N21
- NANNOFOSSILS: *A/M-G; NN12 *Amaurolithus tricorniculatus* -NN15 *Reticulofenestra pseudoumbilica*
- RADIOLARIANS: *C/G; *Stichocorys peregrina*
- DIATOMS
- BENTHIC FORAMINIFERS
- PALEOMAGNETICS: Magnetozone 6; O; Thoera; Sidufiall
- PHYS. PROPERTIES: ● ϕ=61.4 γ=1.72; ● ϕ=61.9 γ=1.66; ● ϕ=62.1 γ=1.64
- CHEMISTRY: ● IC=6.65 OC=2.97

SECTION: 1, 2, 3, 4, 5, 6, 7, CC

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: *

LITHOLOGIC DESCRIPTION

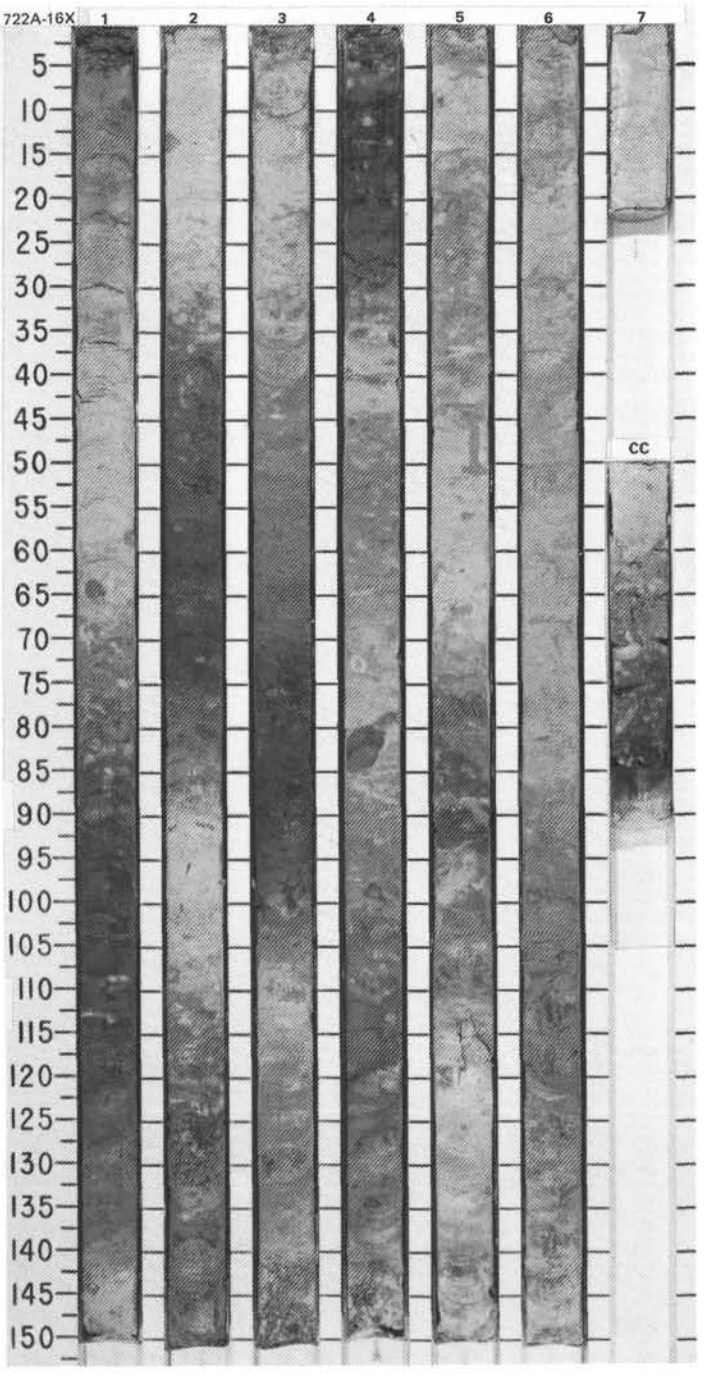
NANNOFOSSIL OOZE

Section 1, 0-10 cm, and CC are slightly disturbed.

Major lithology: NANNOFOSSIL OOZE. Beds range from light gray (5Y 7/1) to light olive gray (5Y 6/2) and olive (5Y 5/3, 4/4). Contacts are gradational. Bioturbation is minor to moderate throughout.

SMEAR SLIDE SUMMARY (%):

	1, 110 D	5, 61 D
TEXTURE:		
Silt	10	7
Clay	90	93
COMPOSITION:		
Access. minerals	1	1
Clay	20	3
Diatoms	Tr	
Foraminifers	Tr	Tr
Volcanic glass	Tr	Tr
Inorganic calcite	9	6
Nannofossils	70	90
Quartz	Tr	Tr
Sponge spicules	Tr	



SITE 722 HOLE A CORE 17X CORED INTERVAL 2182.1-2191.7 mbsl; 154.3-163.9 mbsf

TIME-ROCK UNIT	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
LOWER PLIOCENE	N18 - N21 C/M*	NN12 *Amaurolithus tricorniculatus* -NN15 *Reticulofenestra pseudoumbilica* A/M*	*Stichocorys peregrina* * C/M C/G*			Gilbert	φ=62.5 γ=1.66; φ=62.0 γ=1.71		1, 2, 3, CC	0.5, 1.0				* *

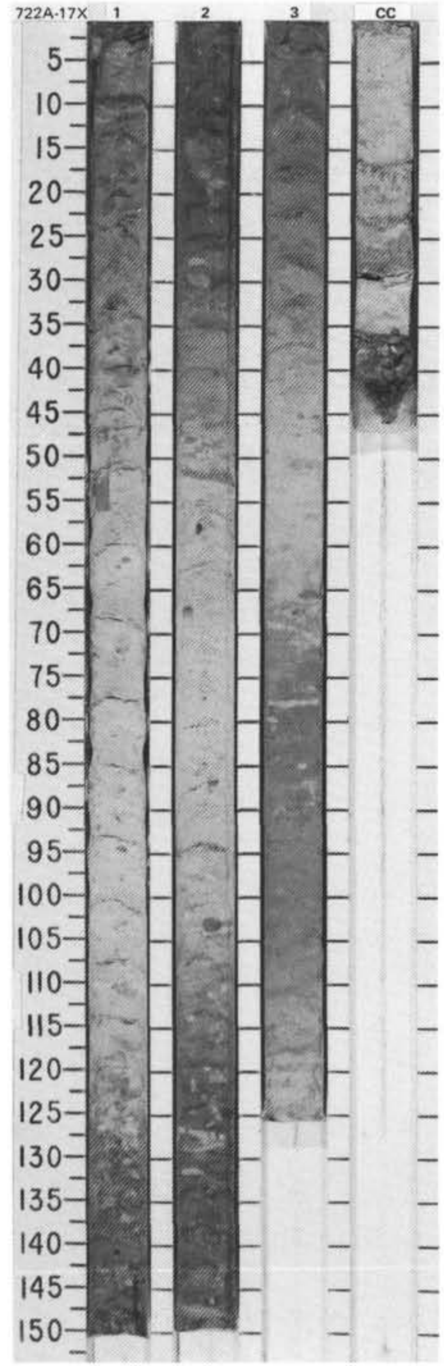
NANNOFOSSIL CHALK

Entire core is slightly disturbed by drilling biscuit formation.

Major lithology: NANNOFOSSIL CHALK. Beds range from light olive gray (5Y 6/2) to light gray (5Y 7/1) and olive (5Y 5/3, 5/4, 4/3). Contacts are gradational. Bioturbation is minor to moderate throughout.

SMEAR SLIDE SUMMARY (%):

	1, 139 D	2, 76 D
TEXTURE:		
Sand		3
Silt	5	7
Clay	95	90
COMPOSITION:		
Access. minerals	Tr	
Clay	10	
Diatoms		Tr
Foraminifers	Tr	3
Volcanic glass	Tr	
Inorganic calcite	5	7
Mica		Tr
Nannofossils	85	90
Radiolarians		Tr
Sponge spicules	Tr	



SITE 722 HOLE A CORE 18X CORED INTERVAL 2191.7-2201.4 mbsl; 163.9-173.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
MIOCENE	N16 - N17	NN11 *Discoaster quinqueramus*	*Stichocorys peregrina* *C/G				• ϕ-58.8 γ-1.71 • ϕ-63.5 γ-1.67		1 2 3 4 5 6 7 CC	0.5 1.0	VOID 167.4 VOID 168.1			* *

LITHOLOGIC DESCRIPTION

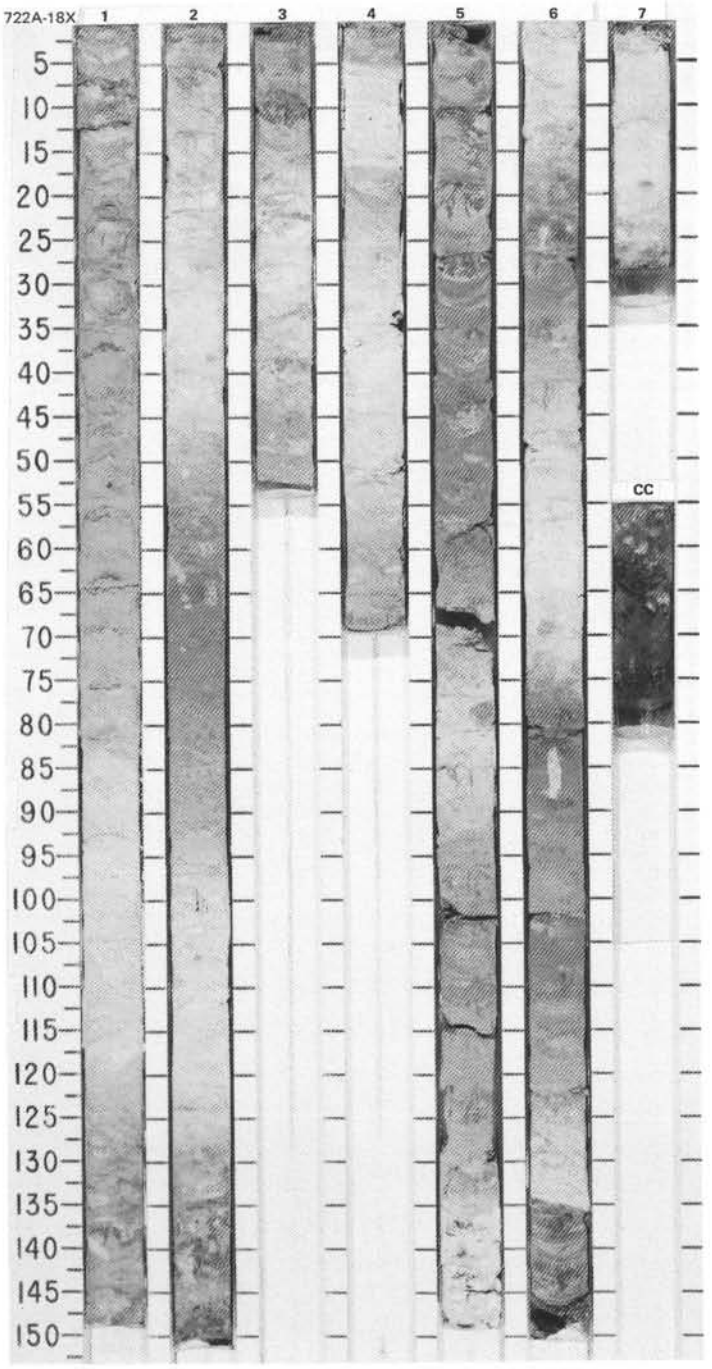
NANNOFOSSIL CHALK

Core extruded on drilling deck, reconstructed on catwalk. Section 1, 0-150 cm, is slightly disturbed.

Major lithology: NANNOFOSSIL CHALK. Beds range from gray (5Y 6/1) to light gray (5Y 7/1, 7/2), olive (5Y 5/3, 4/3, 5/4), and pale olive (5Y 6/3). Contacts are gradational. Bioturbation is minor to moderate throughout.

SMEAR SLIDE SUMMARY (%):

	1, 52 D	4, 10 D
TEXTURE:		
Sand	2	2
Silt	5	10
Clay	93	88
COMPOSITION:		
Access. minerals	Tr	
Clay	13	4
Diatoms		Tr
Foraminifers	1	1
Volcanic glass	Tr	Tr
Inorganic calcite	5	10
Nannofossils	80	85
Quartz	1	Tr
Radiolarians	Tr	
Silicoflagellates		Tr
Sponge spicules	Tr	



SITE 722 HOLE A CORE 19X CORED INTERVAL 2201.4-2211.1 mbsl; 173.6-183.3 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
MIOCENE	*R/M	N16 - N17							1	0.5				*
	*A/M	NN11 *Discoaster quinqueramus*								1.0				
	*C/G		*C/G *Stichocorys peregrina*						2					
	Chronozone 5					O	O Gilbert							
					O				3					
								IC=7.27 OC=1.31	4					*
														OG IW
					O				5					
									6					
									7					
									CC					

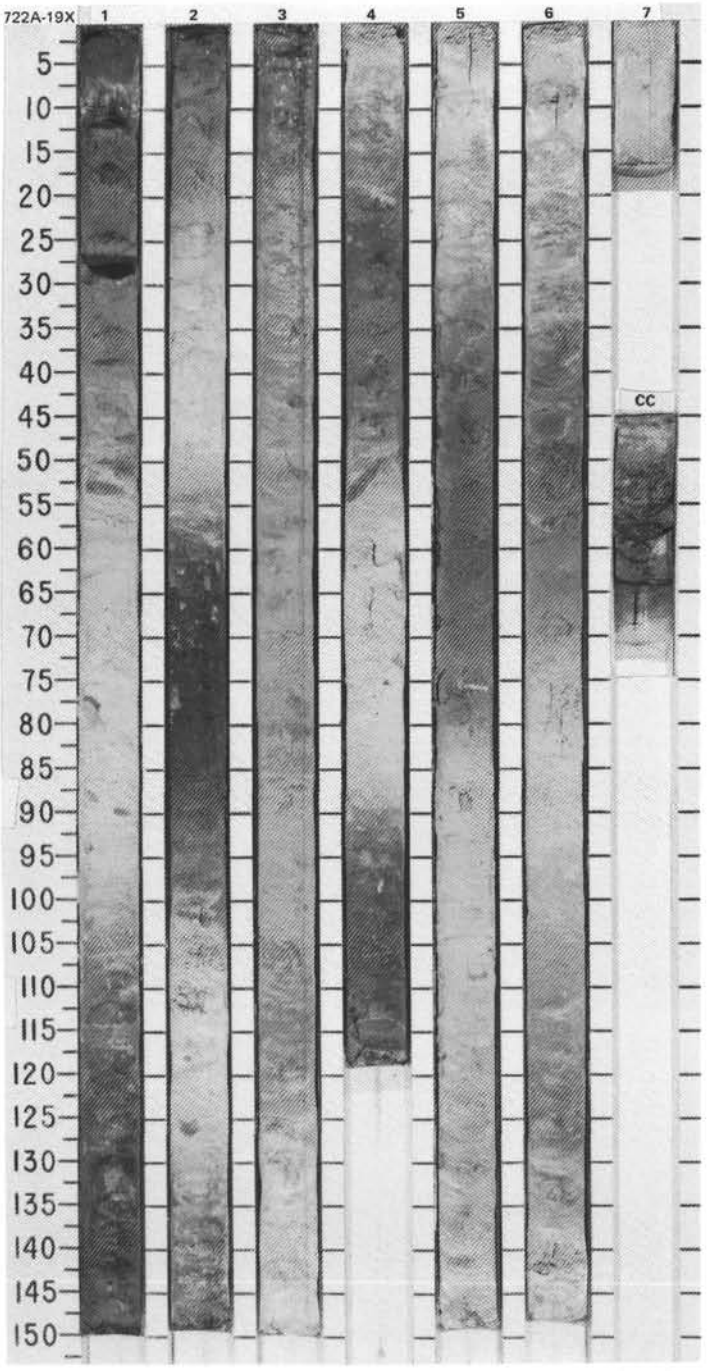
LITHOLOGIC DESCRIPTION

Interbedded NANNOFOSSIL CHALK and MARLY NANNOFOSSIL CHALK
Entire core is slightly disturbed.

Major lithology: Interbedded NANNOFOSSIL CHALK and MARLY NANNOFOSSIL CHALK. Contacts are gradational. Beds range from gray (5Y 6/1) to light olive gray (5Y 6/2), light gray (5Y 7/1, 7/2), olive gray (5Y 5/2), olive (5Y 4/3, 5/3, 4/4, 5/4), and pale olive (5Y 6/3). Bioturbation is minor to moderate throughout.

SMEAR SLIDE SUMMARY (%):

	1, 142 D	4, 77 D
TEXTURE:		
Sand	4	5
Silt	6	10
Clay	90	85
COMPOSITION:		
Access. minerals	2	Tr
Clay	20	7
Diatoms	Tr	
Foraminifers		5
Inorganic calcite	7	8
Mica		Tr
Nannofossils	70	80
Quartz	1	
Radiolarians	Tr	Tr
Sponge spicules		Tr



SITE 722 HOLE A CORE 20X CORED INTERVAL 2211.1-2220.8 mbsl; 183.3-193.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
MIOCENE	*C/G	N16 - N17						1	0.5				
	*A/G	NN11 *Discoaster quinqueramus*							1.0				
	*C/G		*C/G *Sitchocorys peregrina*					2					*
					•	• Chronozone 5 •	• ϕ=58.8 γ=1.70	3					
					•		• ϕ=61.0 γ=1.70	4					
								5					*
								CC					

LITHOLOGIC DESCRIPTION

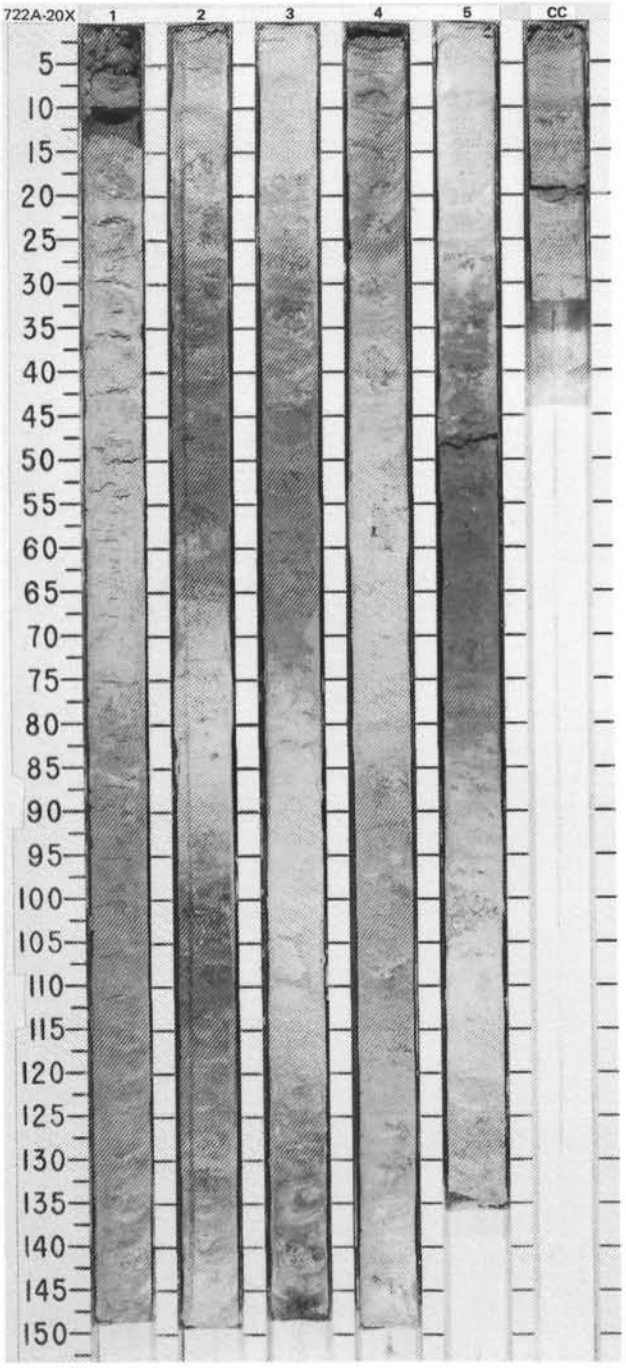
NANNOFOSSIL CHALK

Section 1, 0-10 cm, is very disturbed/soupy. Remainder of core is slightly disturbed.

Major lithology: NANNOFOSSIL CHALK. Beds range from light olive gray (5Y 6/2) to light gray (5Y 7/1), olive (5Y 5/3), and pale olive (5Y 6/3). Contacts are gradational. Bioturbation is minor throughout.

SMEAR SLIDE SUMMARY (%):

	2, 81 D	57 D
TEXTURE:		
Silt	5	15
Clay	95	85
COMPOSITION:		
Access. minerals		1
Clay	4	20
Diatoms		1
Feldspar		Tr
Foraminifers	Tr	Tr
Volcanic glass		1
Inorganic calcite	5	10
Nannofossils	90	65
Quartz	1	2
Radiolarians	Tr	Tr
Sponge spicules	Tr	



SITE 722 HOLE A CORE 21X CORED INTERVAL 2220.8-2230.5 mbsl; 193.0-202.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
MIOCENE	*R/G	*A/G	*C/G			Chromozone 5 ●	●ϕ=59.5 γ=1.69	ϕ=62.7 γ=1.72 ●	1	0.5				*
	N16 - N17	NN11 *Discoaster quinqueramus*	*Stichocorys peregrina*			○			2	1.0				
						●			3					*
									CC					

LITHOLOGIC DESCRIPTION

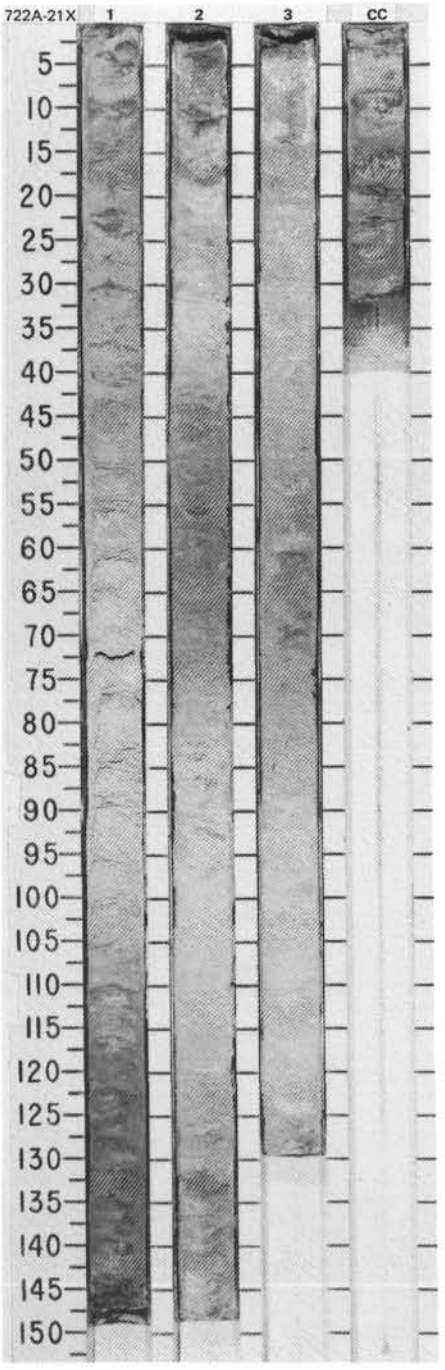
Interbedded NANNOFOSSIL CHALK and DIATOM-BEARING NANNOFOSSIL CHALK

Entire core is moderately disturbed.

Major lithology: Interbedded NANNOFOSSIL CHALK and DIATOM- BEARING NANNOFOSSIL CHALK. Contacts are gradational. Beds range from light gray (5Y 7/1) to gray (5Y 6/1), pale olive (5Y 6/3), and olive (5Y 4/3). Bioturbation is minor throughout. Diatom content is higher in the darker pale olive and olive beds.

SMEAR SLIDE SUMMARY (%):

	1, 133 D	3, 100 D
TEXTURE:		
Sand	5	2
Silt	15	8
Clay	80	90
COMPOSITION:		
Access. minerals	1	Tr
Clay	20	
Diatoms	10	
Dolomite	Tr	
Feldspar	1	
Foraminifers	Tr	2
Volcanic glass		Tr
Inorganic calcite	5	8
Nannofossils	60	90
Quartz	3	
Radiolarians	Tr	Tr
Sponge spicules	Tr	Tr



SITE 722 HOLE A CORE 22X CORED INTERVAL 2230.5-2240.2 mbsl; 202.7-212.4 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
MIOCENE	*C/G	*A/G	*C/G			•	• ϕ=59.8 γ=1.79	• IC=7.69 OC=0.80 • ϕ=59.5 γ=1.75	1 2 3 4 5 6 CC	0.5 1.0			* *	OG IW

LITHOLOGIC DESCRIPTION

N16 - N17

NN11 *Discoaster quinqueramus*

* C/G *Stichocorys peregrina*

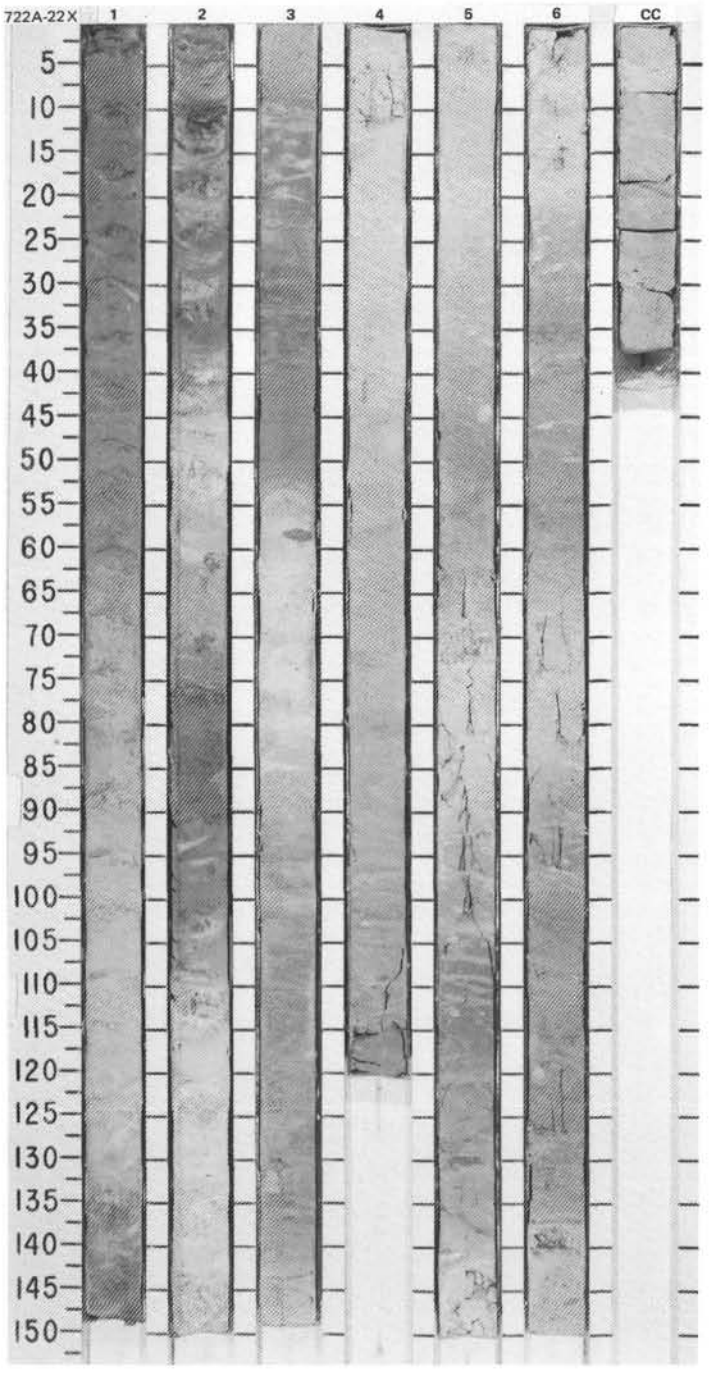
Interbedded NANNOFOSSIL CHALK and MARLY NANNOFOSSIL CHALK

Entire core is moderately disturbed.

Major lithology: Interbedded NANNOFOSSIL CHALK and MARLY NANNOFOSSIL CHALK. Contacts are gradational. Beds range from light gray (5Y 7/1, 7/2) to light olive gray (5Y 6/2), gray (5Y 6/1), olive gray (5Y 5/2), and olive (5Y 5/3, 4/2). Bioturbation is minor to moderate throughout.

SMEAR SLIDE SUMMARY (%):

	3, 65 D	6, 119 D
TEXTURE:		
Sand	1	10
Silt	5	10
Clay	94	80
COMPOSITION:		
Access. minerals	Tr	1
Clay	9	20
Diatoms	Tr	
Feldspar		1
Foraminifers	1	5
Volcanic glass	Tr	Tr
Inorganic calcite	5	10
Mica		1
Nannofossils	85	60
Quartz		2
Radiolarians	Tr	
Sponge spicules	Tr	



SITE 722 HOLE A CORE 23X CORED INTERVAL 2240.2-2249.8 mbsl; 212.4-22.0 mbsf

TIME-ROCK UNIT: MIOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER:
- FORAMINIFERS: *C/G — N16 - N17
- NANNOFOSSILS: *A/G — NN11 *Discoaster quinqueramus*
- RADIOLARIANS: *C/G — *C/G *Didymocyrtis penultimus*
- DIATOMS
- BENTHIC FORAMINIFERS
- PALEOMAGNETICS: Chronozone 6
- PHYS. PROPERTIES: ● ϕ=58.3 γ=1.72; ● ϕ=60.6 γ=1.64; ● ϕ=52.4 γ=1.70
- CHEMISTRY

SECTION: 1, 2, 3, 4, 5, 6, 7, CC

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.: D

SED. STRUCTURES

SAMPLES: *, *

LITHOLOGIC DESCRIPTION

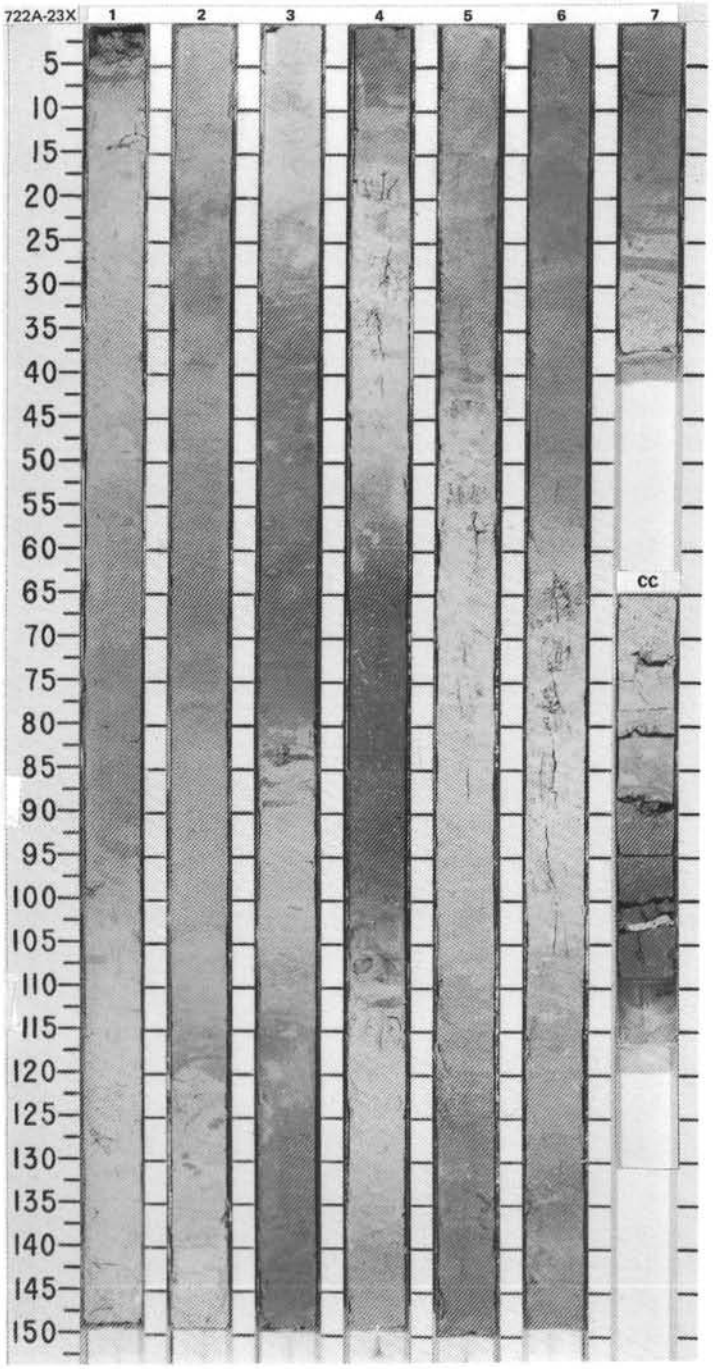
Interbedded NANNOFOSSIL CHALK and DIATOM-BEARING NANNOFOSSIL CHALK

Entire core is slightly disturbed.

Major lithology: Interbedded NANNOFOSSIL CHALK and DIATOM- BEARING NANNOFOSSIL CHALK. Contacts are gradational. Beds range from white (10Y 8/1) to light gray (5Y 7/1, 7/2), light greenish gray (10Y 7/1), light olive gray (5Y 6/2), pale olive (5Y 6/3), and olive (5Y 5/3). Bioturbation is minor to moderate throughout. Diatom-bearing chalk is generally pale olive to olive.

SMEAR SLIDE SUMMARY (%):

	4, 90 D	6, 90 D
TEXTURE:		
Sand	5	3
Silt	15	7
Clay	80	90
COMPOSITION:		
Access. minerals	1	
Clay	14	4
Diatoms	5	Tr
Dolomite	Tr	
Feldspar	1	
Foraminifers	2	3
Volcanic glass	Tr	
Inorganic calcite	10	6
Mica		Tr
Nannofossils	65	86
Quartz	2	Tr
Radiolarians	Tr	Tr
Silicoflagellates	Tr	Tr
Sponge spicules		Tr



SITE 722 HOLE A CORE 24X CORED INTERVAL 2249.8-2259.5 mbsl; 222.0-231 .7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
MIOCENE	N16 - N17	NN11 *Discoaster quinqueramus*	* C/G *Didymocyrtis penultima*						1	0.5				
	* A/M									1.0				
									2					
									3					
									4					
									5					
									6					
									7					
									CC					

LITHOLOGIC DESCRIPTION

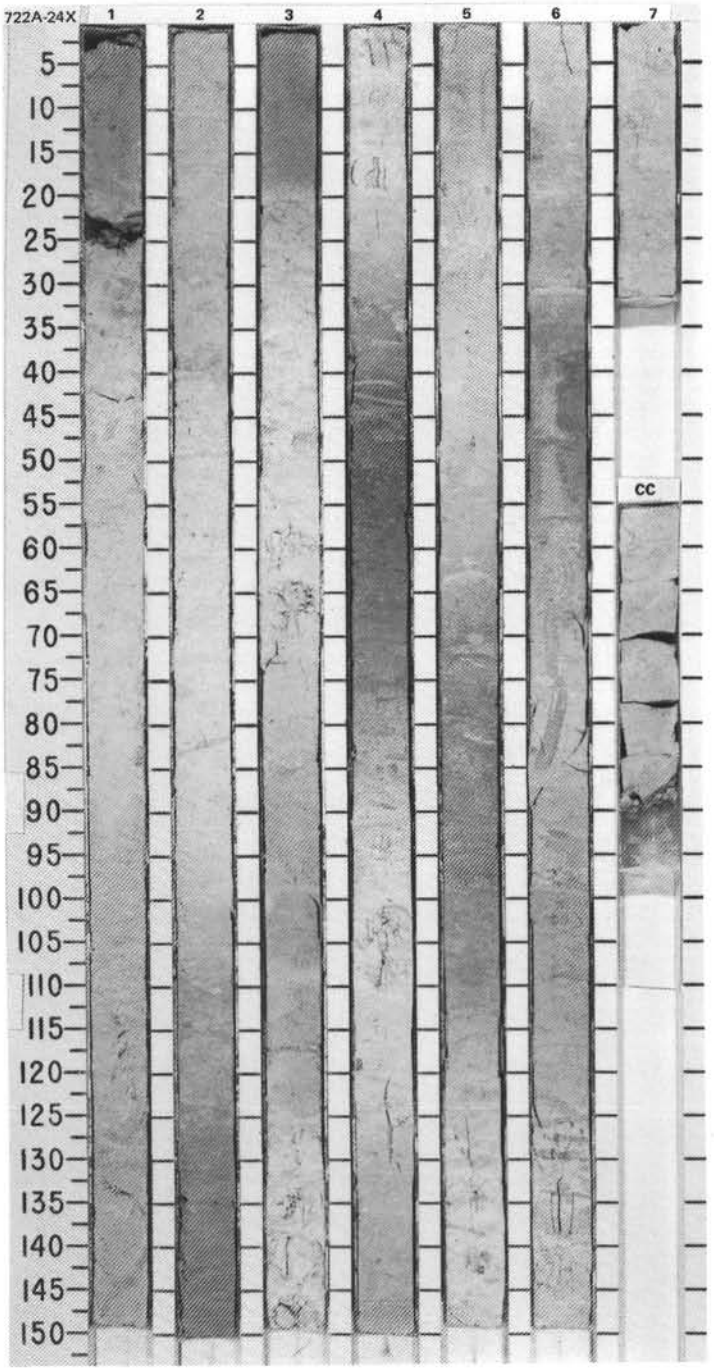
NANNOFOSSIL CHALK

Entire core is slightly to moderately fractured.

Major lithology: NANNOFOSSIL CHALK. Beds range from white (5Y 8/1) to light olive gray (5Y 7/1), light gray (5Y 7/1), olive gray (5Y 5/2), and pale olive (5Y 6/3). Entire core is moderately bioturbated.

SMEAR SLIDE SUMMARY (%):

	2, 133 D	4, 34 D
TEXTURE:		
Sand	5	
Silt	10	10
Clay	85	90
COMPOSITION:		
Access. minerals	1	
Clay	15	5
Diatoms	2	
Foraminifers	Tr	Tr
Inorganic calcite	10	5
Mica	Tr	Tr
Nannofossils	70	90
Quartz	2	
Radiolarians	Tr	Tr
Silicoflagellates		Tr
Sponge spicules	Tr	



SITE 722 HOLE A CORE 25X CORED INTERVAL 2259.5-2269.5 mbsl; 231.7-241.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
MIOCENE	N16 - N17	NN11 *Discoaster quinqueramus*	*Didymocyrtis penultima*				ϕ-58.6 γ-1.76		1 CC	0.5 1.0				*

LITHOLOGIC DESCRIPTION

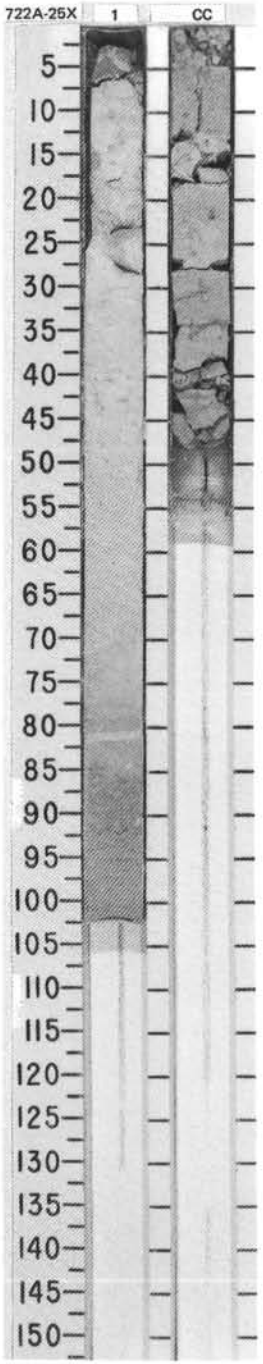
Interbedded NANNOFOSSIL CHALK and DIATOM-BEARING NANNOFOSSIL CHALK

Entire core is slightly fractured throughout.

Major lithology: Interbedded NANNOFOSSIL CHALK and DIATOM- BEARING NANNOFOSSIL CHALK. Contacts are gradational. Beds range from white (5Y 8/1) to light olive gray (5Y 6/2) and light gray (5Y 7/1). Bioturbation is minor throughout.

SMEAR SLIDE SUMMARY (%):

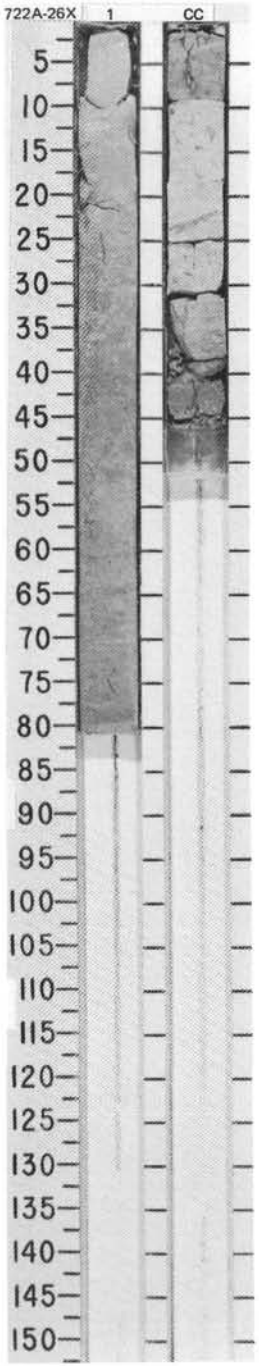
	1, 33 D	1, 91 D
TEXTURE:		
Silt	5	15
Clay	95	85
COMPOSITION:		
Access. minerals		Tr
Clay	7	9
Diatoms	Tr	5
Dolomite		Tr
Foraminifers	Tr	
Inorganic calcite	3	5
Nannofossils	90	80
Radiolarians	Tr	1
Silicoflagellates	Tr	Tr
Sponge spicules	Tr	Tr



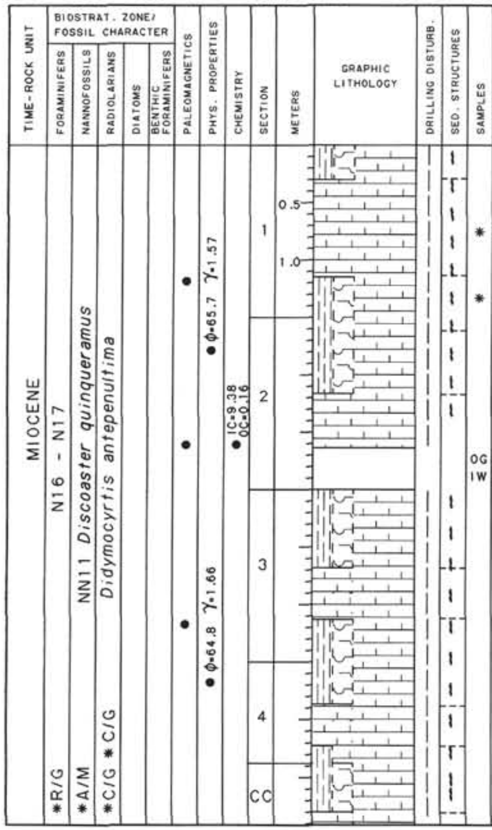
SITE 722 HOLE A CORE 26X CORED INTERVAL 2269.5-2278.8 mbsl; 24 1.7-251.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIOCENE	*R/G	*A/M	*C/G				ϕ=63.1 γ=1.63 ●		1	0.5				*	FORAMINIFER-BEARING DIATOM-NANNOFOSSIL CHALK
N16 - N17									CC	1.0					Entire core is slightly disturbed.
N11 *Discoaster quinqueramus*															Major lithology: FORAMINIFER-BEARING DIATOM-NANNOFOSSIL CHALK. Beds range from light olive gray (5Y 6/2) to light gray (5Y 7/1). Contacts are gradational. Bioturbation is minor throughout.
Didymocyrtis antepenultimus															SMEAR SLIDE SUMMARY (%):

	1, 60 D
TEXTURE:	
Silt	30
Clay	70
COMPOSITION:	
Clay	15
Diatoms	15
Foraminifers	5
Inorganic calcite	5
Nannofossils	59
Radiolarians	Tr
Silicoflagellates	1
Sponge spicules	Tr



SITE 722 HOLE A CORE 27X CORED INTERVAL 2278.8-2288.5 mbsl; 251.0-260.7 mbsf



LITHOLOGIC DESCRIPTION

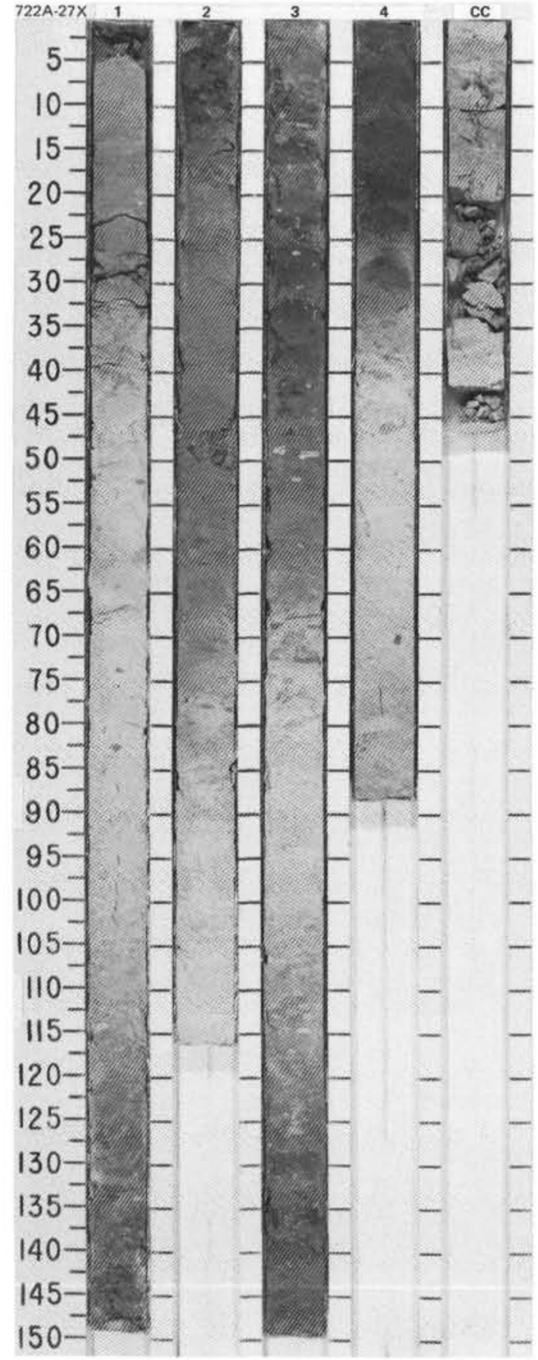
RADIOLARIAN-BEARING DIATOM-NANNOFOSSIL CHALK

Section 1 to Section 4 is slightly disturbed.

Major lithology: RADIOLARIAN-BEARING DIATOM-NANNOFOSSIL CHALK. Beds range from light olive gray (5Y 6/2) to light gray (5Y 7/2), olive (5Y 5/3, 4/3), and pale olive (5Y 6/3). Contacts are gradational. Bioturbation is minor throughout. Siliceous components are more abundant in the pale olive and olive beds.

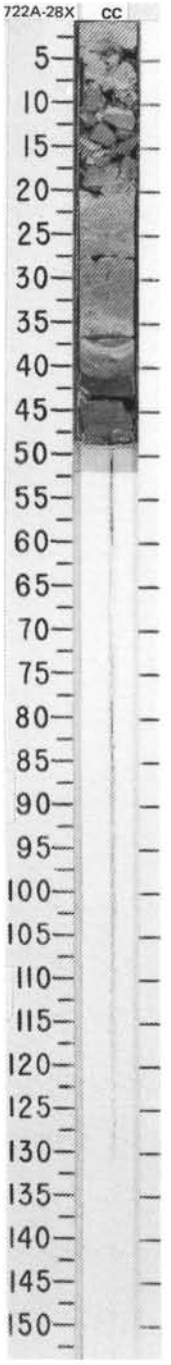
SMEAR SLIDE SUMMARY (%):

	1, 75 D	1, 143 D
TEXTURE:		
Silt	15	40
Clay	85	60
COMPOSITION:		
Access. minerals	Tr	
Clay	4	10
Diatoms	1	25
Dolomite	Tr	
Foraminifers	7	3
Inorganic calcite	5	5
Nannofossils	80	50
Quartz	Tr	
Radiolarians	3	5
Silicoflagellates	Tr	2
Sponge spicules		Tr



SITE 722 HOLE A CORE 28X CORED INTERVAL 2288.5-2298.2 mbsl; 260.7-270.4 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIOCENE	R/M*	A/M*	C/G*						CC						DIATOM-NANNOFOSSIL CHALK CC is very disturbed. Major lithology: DIATOM-NANNOFOSSIL CHALK.
N16 - N17															
NN11 *Discoaster quinqueramus*															
Didymocyrtis antepenultima															



SITE 722 HOLE A CORE 29X CORED INTERVAL 2298.2-2307.8 mbsl; 270.4-280.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
UPPER MIOCENE	*R/M N16 - N17	*A/M NN10 *Discoaster calcaris*	*C/G *Didymocyrtis antepenultima*			•	ϕ-59.5 7*1.78 •		1	0.5				*
										1.0				
						•			2					*
									3					*
									CC					

LITHOLOGIC DESCRIPTION

Interbedded NANNOFOSSIL CHALK and DIATOM-BEARING NANNOFOSSIL CHALK

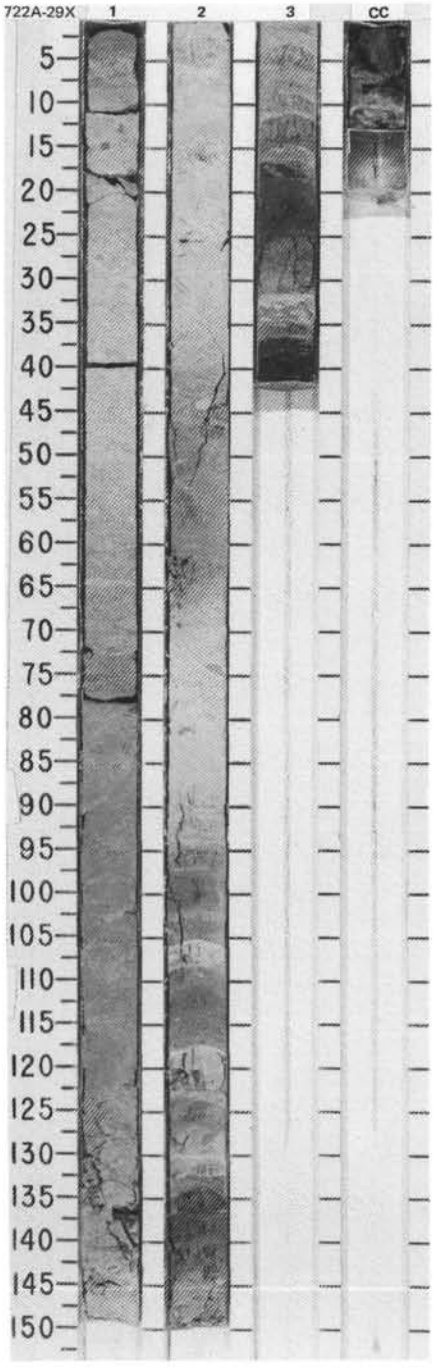
Section 1 to Section 2 is slightly fractured. Section 3 and CC are moderately fractured.

Major lithology: INTERBEDDED NANNOFOSSIL CHALK and DIATOM-BEARING NANNOFOSSIL CHALK. Contacts are gradational. Beds range from light olive gray (5Y 6/2) to light greenish gray (10Y 7/1, 7/2), olive gray (5Y 5/2), olive (5Y 5/3, 4/3, 4/4), pale olive (5Y 5/4), and dark greenish gray (10Y 5/2). Bioturbation is minor to moderate throughout.

Minor lithology: Diatomaceous silty claystone, dark olive gray (5Y 3/2). Section 3, 30-40 cm.

SMEAR SLIDE SUMMARY (%):

	1, 101 D	2, 25 D	3, 39 M
TEXTURE:			
Silt	25	5	50
Clay	75	95	50
COMPOSITION:			
Access. minerals	Tr	Tr	Tr
Clay	10	8	33
Diatoms	10	Tr	33
Dolomite	Tr	Tr	Tr
Foraminifers	5	2	Tr
Inorganic calcite	10	Tr	11
Nannofossils	65	90	5
Quartz	Tr	Tr	11
Radiolarians	Tr	Tr	5
Silicoflagellates	Tr		2
Sponge spicules	Tr	Tr	Tr



SITE 722 HOLE B CORE 1H CORED INTERVAL 2027.8-2033.3 mbsl; 0.0-5.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLEISTOCENE		*A/G NN21 *Emiliania huxleyi*					● Φ=62.7 γ=1.85		1, 2, 3, 4, CC	0.5, 1.0				*

LITHOLOGIC DESCRIPTION

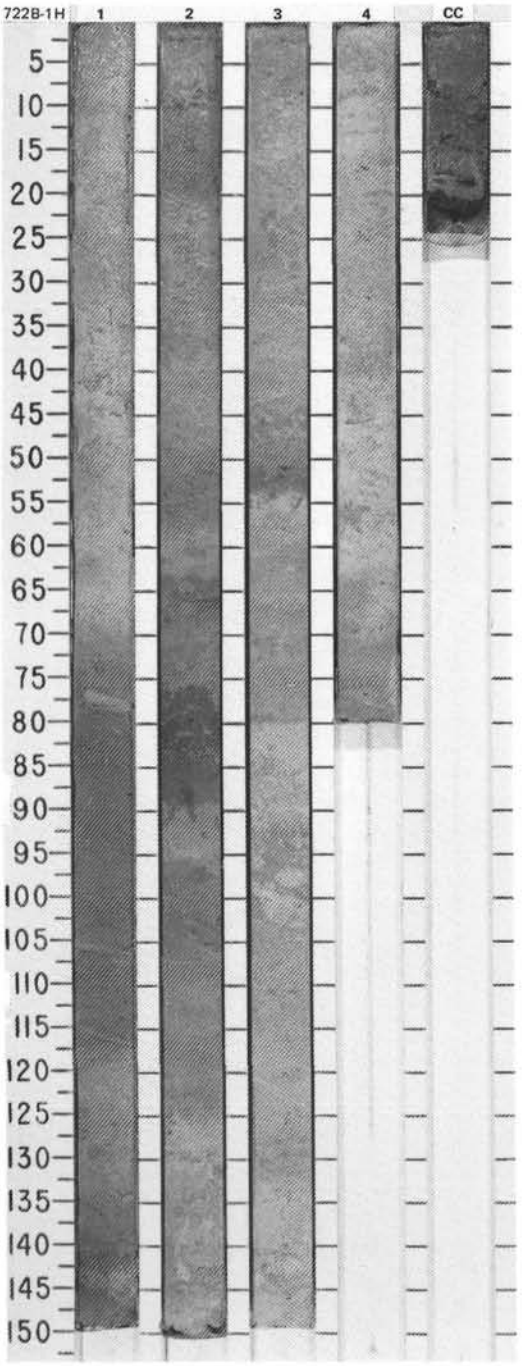
Interbedded FORAMINIFER-BEARING NANNOFOSSIL OOZE and FORAMINIFER-NANNOFOSSIL OOZE

CC is slightly disturbed.

Major lithology: Interbedded FORAMINIFER-BEARING NANNOFOSSIL OOZE and FORAMINIFER-NANNOFOSSIL OOZE. Contacts are gradational. Beds range from light olive gray (5Y 6/2) to light greenish gray (10Y 5/2, 6/2), olive (5Y 4/3, 5/3, 5/4), and pale olive (5Y 6/3). Bioturbation is minor throughout.

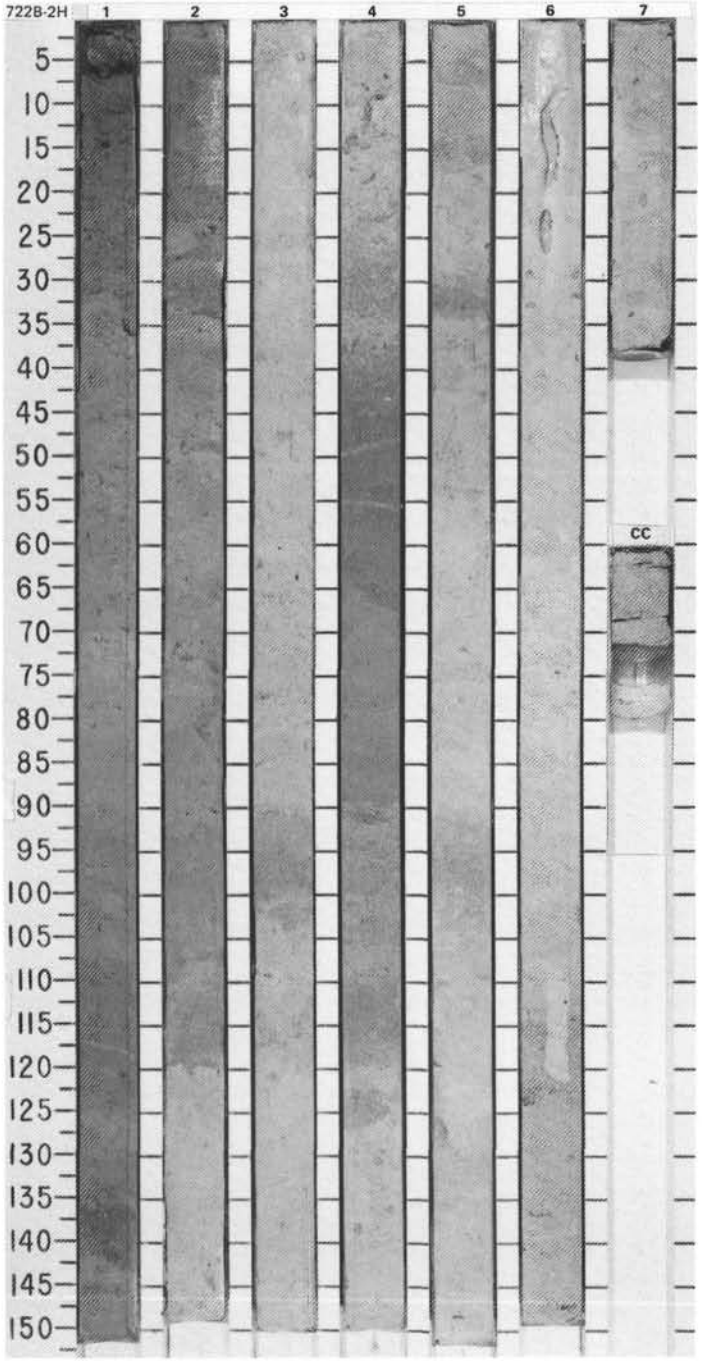
SMEAR SLIDE SUMMARY (%):

	1, 20 D	2, 79 D	2, 149 M	4, 30 D
TEXTURE:				
Sand	15	5	20	
Silt	20	10	30	20
Clay	65	85	50	80
COMPOSITION:				
Access. minerals	2		3	
Clay	15	10	15	10
Diatoms		10		Tr
Foraminifers	15	5	5	5
Inorganic calcite	5	5	5	10
Mica		Tr	Tr	
Nannofossils	60	65	55	75
Pyrite			15	
Quartz	Tr	5	2	Tr
Radiolarians	3			Tr



SITE 722 HOLE B CORE 2H CORED INTERVAL 2033.3-2042.9 mbsl; 5.5-15.1 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
PLEISTOCENE		NN20 *Gephyrocapsa oceanica*					● ϕ=70.6 γ=1.55		1	0.5					Interbedded NANNOFOSSIL OOZE and FORAMINIFER-BEARING NANNOFOSSIL OOZE
	* A/G								1	1.0					CC is slightly disturbed.
									2						Major lithology: Interbedded NANNOFOSSIL OOZE and FORAMINIFER-BEARING NANNOFOSSIL OOZE. Contacts are gradational. Beds range from gray (5Y 6/1) to light olive gray (5Y 6/2), light gray (5Y 7/1), olive gray (5Y 5/2), olive (5Y 5/4, 5/3), and pale olive (5Y 6/3). Bioturbation is minor throughout, with some pyrite(?)-lined burrows.
									3				*		SMEAR SLIDE SUMMARY (%): 3, 60 D
									4						TEXTURE: Sand 5; Silt 10; Clay 80
									5						COMPOSITION: Clay 10; Diatoms Tr; Dolomite Tr; Foraminifers 5; Inorganic calcite 5; Nannofossils 80
									6						
									7						
									CC						



SITE 722 HOLE B CORE 3H CORED INTERVAL 2042.9-2052.5 mbsl; 15.1-24.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLEISTOCENE		NN20 *Gephyrocapsa oceanica*				Brunhes	ϕ=66.6 γ=1.62	IC=8.17 OC=0.87	1–7, CC	0.5, 1.0				*

LITHOLOGIC DESCRIPTION

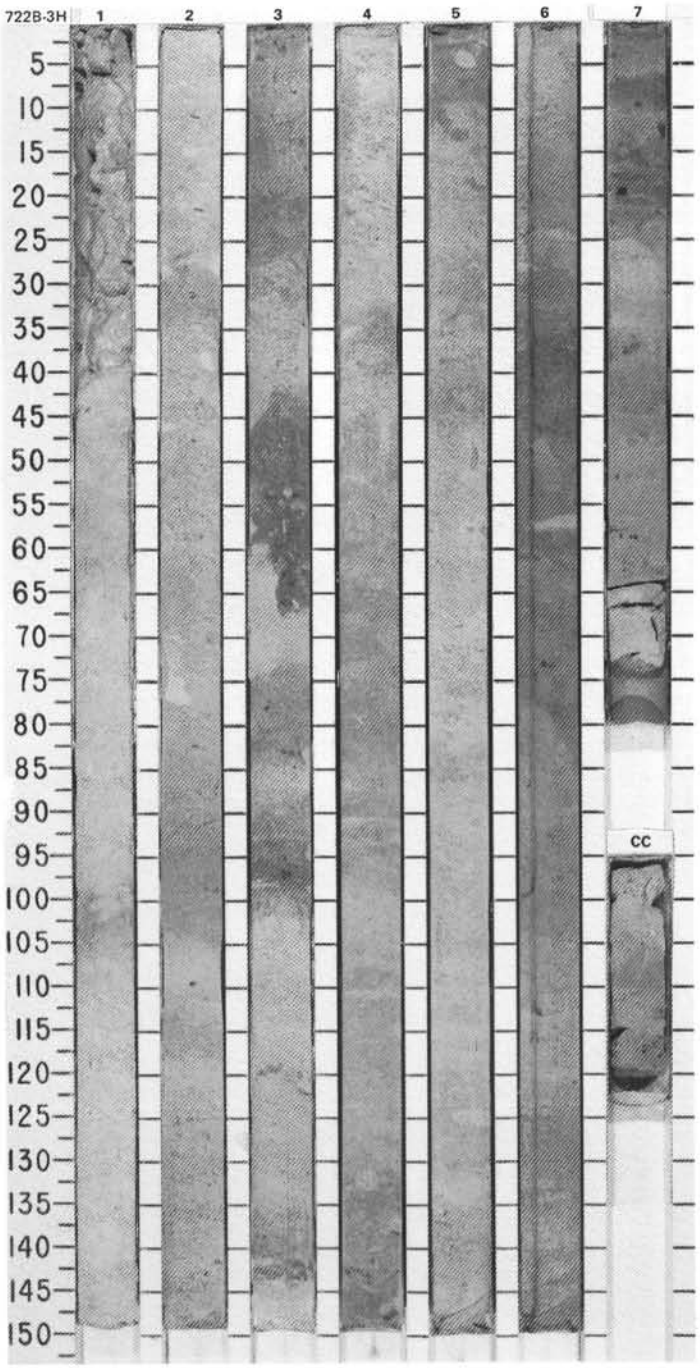
Interbedded NANNOFOSSIL OOZE and FORAMINIFER-BEARING NANNOFOSSIL OOZE

Section 1, 0-40 cm, is soupy. CC is moderately disturbed.

Major lithology: Interbedded NANNOFOSSIL OOZE and FORAMINIFER-BEARING NANNOFOSSIL OOZE. Contacts are gradational. Beds range from light olive gray (5Y 6/2) to light gray (5Y 7/1, 7/2), olive gray (5Y 5/2), olive (5Y 5/3, 5/4, 4/3), pale olive (5Y 6/3), and dark greenish gray (10Y 5/2). Bioturbation is minor throughout.

SMEAR SLIDE SUMMARY (%):

	3, 96 D	5, 11 D
TEXTURE:		
Silt	20	15
Clay	80	85
COMPOSITION:		
Access. minerals	Tr	Tr
Clay	7	5
Dolomite	Tr	Tr
Foraminifers	8	10
Volcanic glass	Tr	
Inorganic calcite	5	5
Nannofossils	80	80
Quartz	Tr	Tr



SITE 722 HOLE B CORE 4H CORED INTERVAL 2052.5-2062.1 mbsl; 24.7-34.3 mbsf

TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS; NANNOFOSSILS: *A/G; NN19 *Pseudoemiliania lacunosa*; RADIOLARIANS; DIATOMS; BENTHIC FORAMINIFERS

PALEOMAGNETICS: Brunhes

PHYS. PROPERTIES: ●Φ-81.7 γ-1.84

CHEMISTRY

SECTION: 1, 2, 3, 4, 5, 6, 7, CC

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES

LITHOLOGIC DESCRIPTION

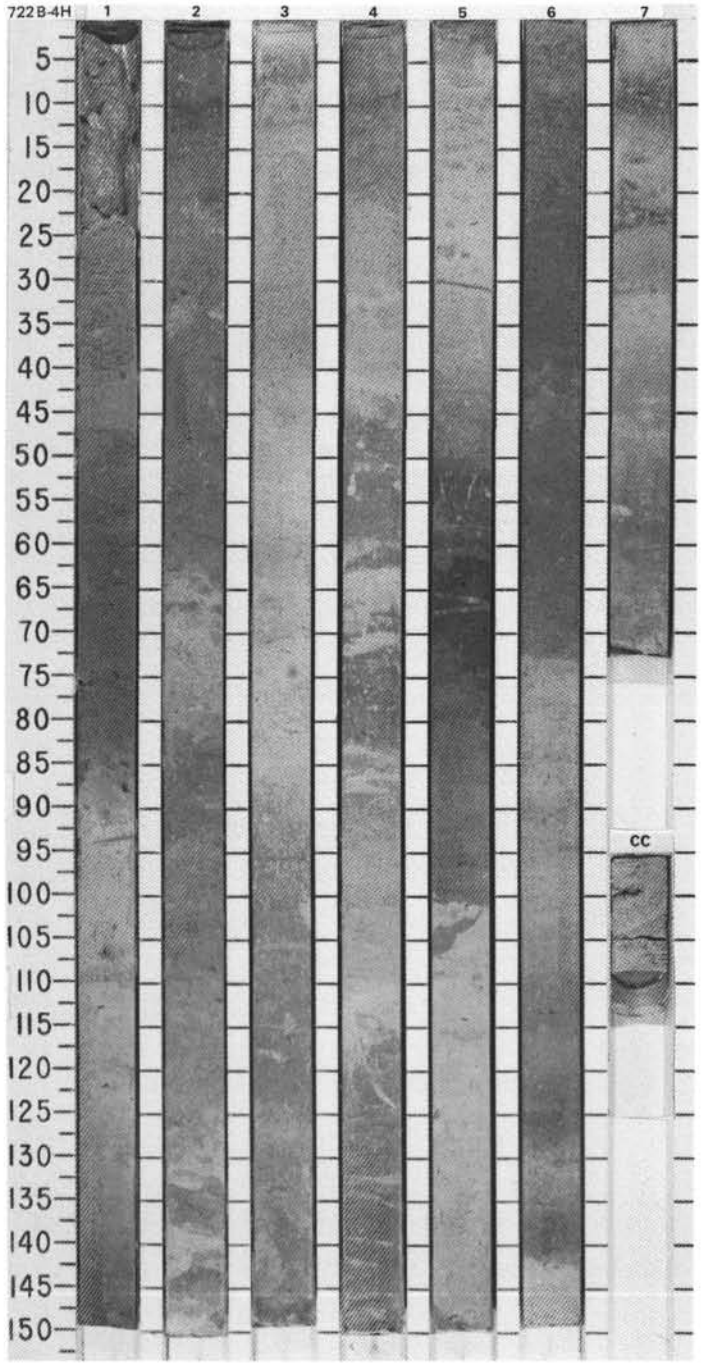
Interbedded FORAMINIFER-BEARING NANNOFOSSIL OOZE and FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE

Section 1, 0-20 cm, is soupy. CC is slightly disturbed.

Major lithology: Interbedded FORAMINIFER-BEARING NANNOFOSSIL OOZE and FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE. Contacts are gradational except for sharp contact at Section 5, 100 cm. Beds range from gray (5Y 6/1) to light olive gray (5Y 6/2), light gray (5Y 7/1, 7/2), light greenish gray (10Y 6/2), olive gray (5Y 5/2), olive (5Y 5/4, 5/3, 4/4, 4/3), and pale olive (5Y 6/3). Bioturbation is minor to moderate throughout.

SMEAR SLIDE SUMMARY (%):

	1, 121 D	5, 62 D
TEXTURE:		
Sand	10	10
Silt	15	10
Clay		
COMPOSITION:		
Access. minerals	Tr	1
Clay	10	25
Dolomite	Tr	
Foraminifers	12	7
Volcanic glass	Tr	Tr
Inorganic calcite	10	9
Mica	1	Tr
Nannofossils	65	55
Quartz	2	3



SITE 722 HOLE B CORE 5H CORED INTERVAL 2062.1-2071.7 mbsl; 34.3-43.9 mbsf

TIME-ROCK UNIT: QUATERNARY

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS: * A/M-P; NANNOFOSSILS: NN19 *Pseudoemiliania lacunosa*; RADIOLARIANS; DIATOMS; BENTHIC FORAMINIFERS; PALEOMAGNETICS: • Matuyama O, • Brunhes •; PHYS. PROPERTIES: • ϕ-65.60 γ-1.60; CHEMISTRY

SECTION: 1, 2, 3, 4, 5, 6, 7, CC

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: *, *

LITHOLOGIC DESCRIPTION

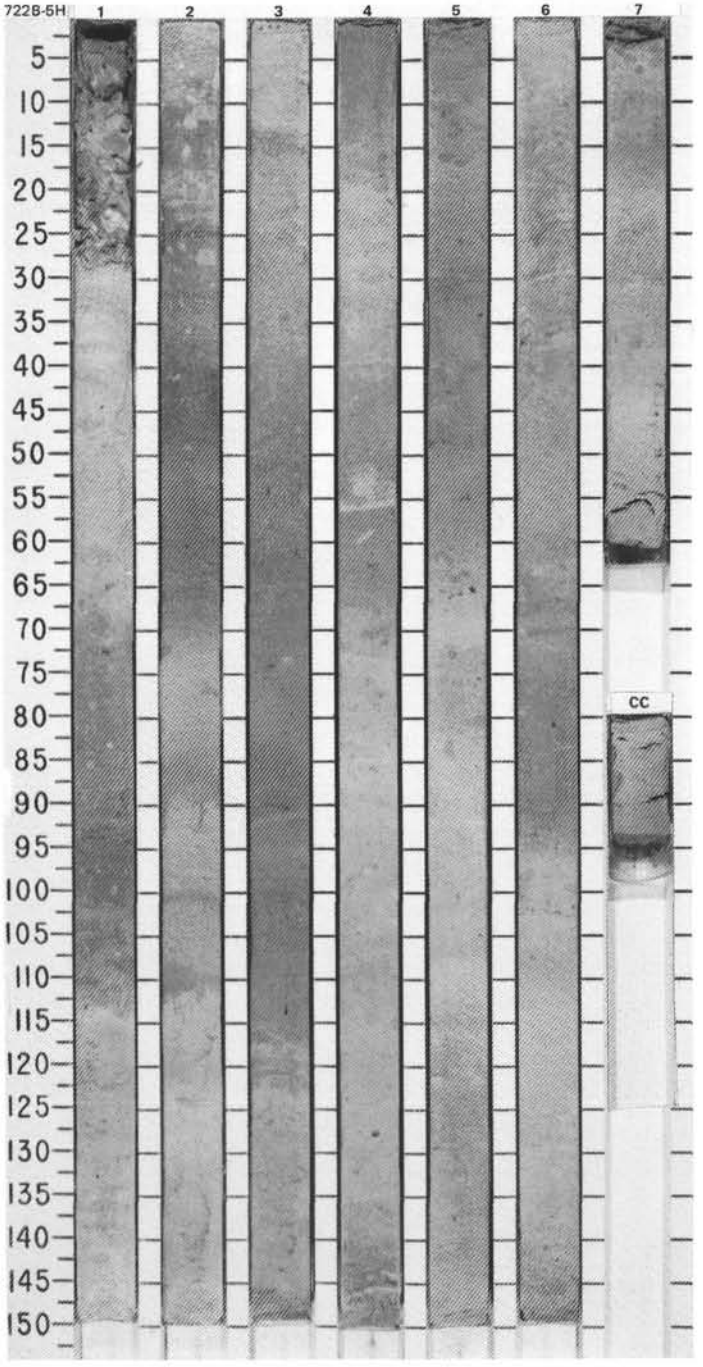
Interbedded NANNOFOSSIL OOZE and FORAMINIFER-BEARING NANNOFOSSIL OOZE

Section 1, 0-30 cm, is soupy. CC is moderately disturbed.

Major lithology: Interbedded NANNOFOSSIL OOZE and FORAMINIFER-BEARING NANNOFOSSIL OOZE. Contacts are gradational. Beds range from light olive gray (5Y 6/2) to light gray (5Y 7/1, 7/2), light greenish gray (10Y 6/2), olive gray (5Y 5/2), olive (5Y 5/3, 5/4), and pale olive (5Y 6/4). Bioturbation is minor throughout.

SMEAR SLIDE SUMMARY (%):

	1, 43 D	2, 59 D
TEXTURE:		
Sand		10
Silt	10	10
Clay	90	80
COMPOSITION:		
Access. minerals	Tr	2
Clay	3	20
Diatoms		1
Foraminifers	1	6
Volcanic glass	Tr	Tr
Inorganic calcite	10	8
Mica		Tr
Nannofossils	85	60
Quartz	1	1
Radiolarians		Tr
Silicoflagellates		2



SITE 722 HOLE B CORE 6H CORED INTERVAL 2071.7-2081.0 mbsl; 43.9-53.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLEISTOCENE	* A/M	NN19 *Pseudoemiliania lacunosa*				O Matuyama	● ϕ=64.7 γ=1.65		1 2 3 4 5 6 7 CC	0.5 1.0				* *

LITHOLOGIC DESCRIPTION

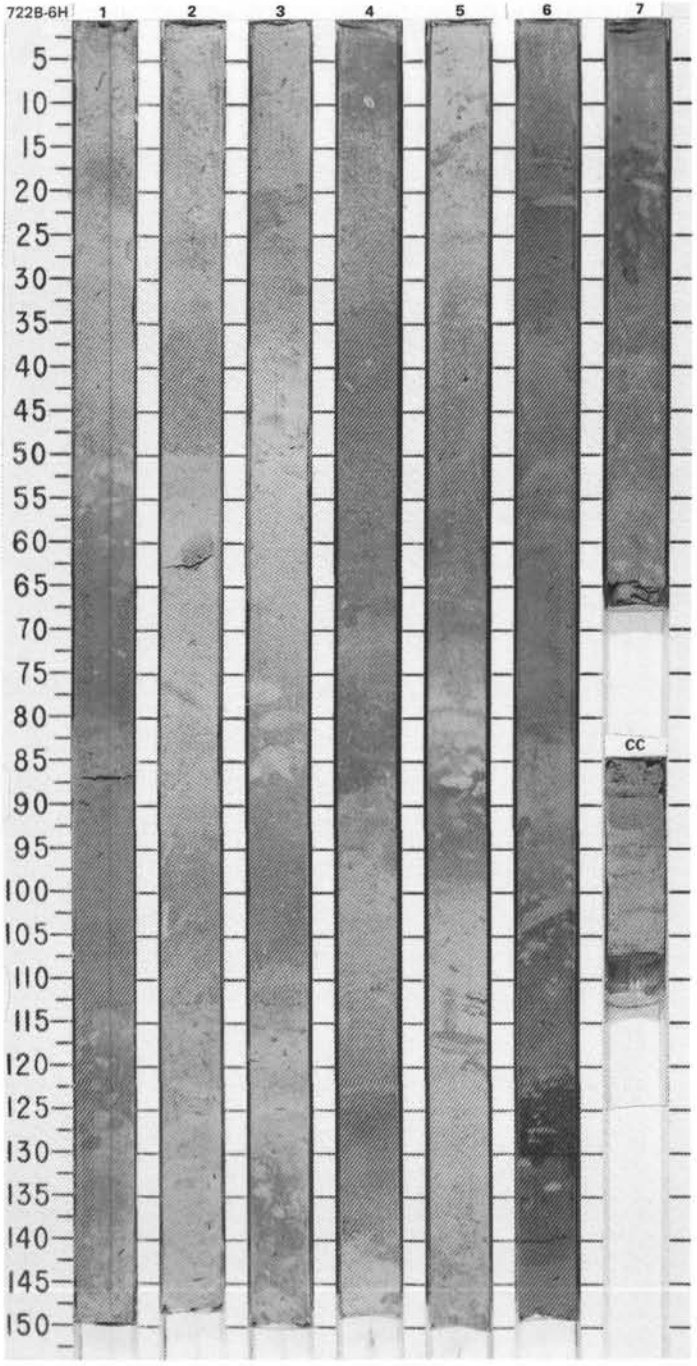
Interbedded NANNOFOSSIL OOZE and FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE

Entire core is undisturbed.

Major lithology: Interbedded NANNOFOSSIL OOZE and FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE. Contacts are gradational. Beds range from light olive gray (5Y 6/2) to light gray (5Y 7/2), light greenish gray (10Y 6/2), olive gray (5Y 5/2), olive (5Y 5/3, 4/3), pale olive (5Y 6/3), and dark olive gray (5Y 3/2). Bioturbation is minor to moderate throughout.

SMEAR SLIDE SUMMARY (%):

	5, 11 D	6, 129 D
TEXTURE:		
Sand	2	10
Silt	18	15
Clay	80	75
COMPOSITION:		
Access. minerals		2
Clay	5	25
Diatoms		Tr
Dolomite	Tr	
Feldspar		2
Foraminifers	2	12
Volcanic glass	Tr	Tr
Inorganic calcite	18	9
Mica	Tr	Tr
Nannofossils	75	45
Quartz	Tr	5
Silicoflagellates		Tr



SITE 722 HOLE B CORE 7H CORED INTERVAL 2081.0-2090.7 mbsl; 53.2-62.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLEISTOCENE	*A/G	NN19 *Pseudoemiliania lacunosa*				● ϕ-62.3 γ-1.71			1, 2, 3, 4, 5, 6, 7, CC	0.5, 1.0				*

LITHOLOGIC DESCRIPTION

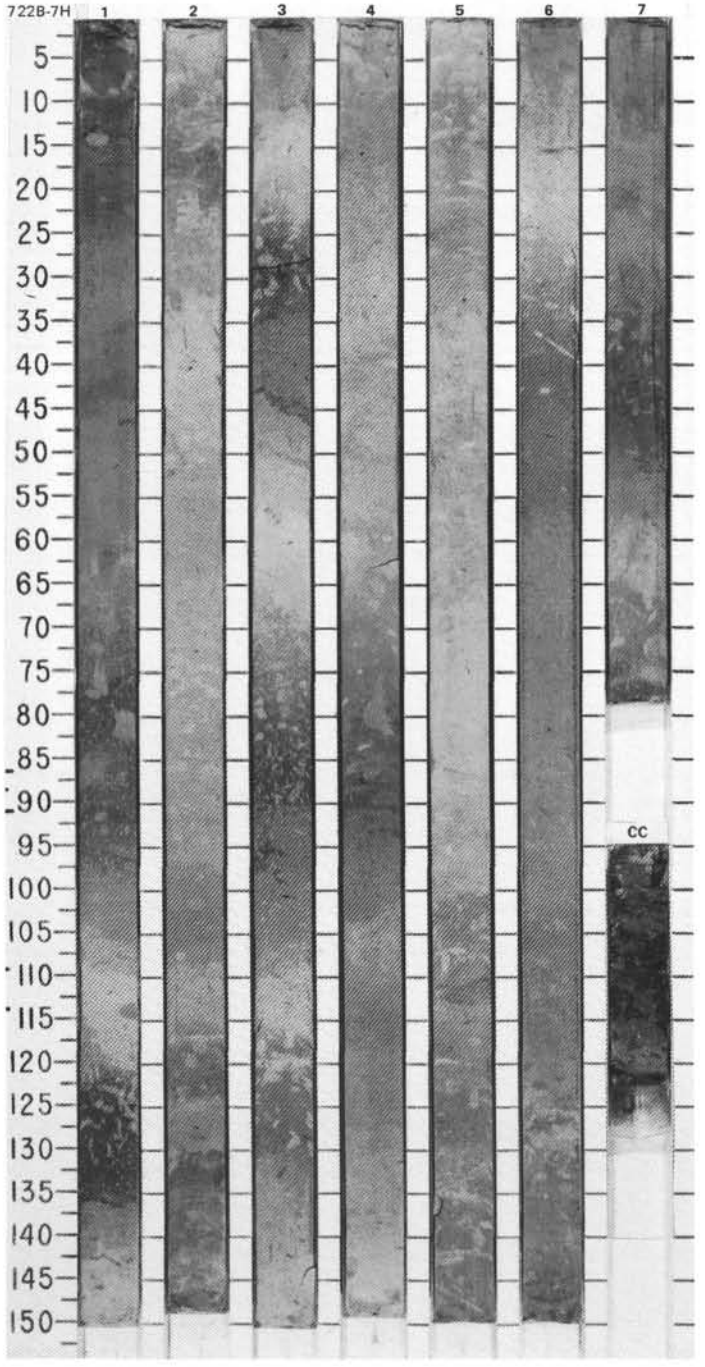
Interbedded NANNOFOSSIL OOZE and FORAMINIFER-BEARING NANNOFOSSIL OOZE

Section 1, 0-10 cm, is moderately disturbed. CC is slightly disturbed.

Major lithology: INTERBEDDED NANNOFOSSIL OOZE and FORAMINIFER-BEARING NANNOFOSSIL OOZE. Contacts are gradational. Beds range from light olive gray (5Y 7/1) to olive gray (5Y 5/2, 4/2), olive (5Y 4/3, 5/3), dark greenish gray (10Y 5/2), and dark olive gray (5Y 3/2). Bioturbation is minor throughout.

SMEAR SLIDE SUMMARY (%):

	2, 39 D	6, 81 D
TEXTURE:		
Sand	3	15
Silt	7	10
Clay	90	75
COMPOSITION:		
Access. minerals		1
Clay	10	20
Diatoms		Tr
Dolomite		Tr
Foraminifers	5	15
Volcanic glass	Tr	Tr
Inorganic calcite	5	7
Mica	Tr	
Nannofossils	80	55
Quartz		2
Radiolarians	Tr	Tr
Sponge spicules		Tr



SITE 722 HOLE B CORE 8H CORED INTERVAL 2090.7-2100.3 mbsl; 62.9-72.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLIOCENE	* A/M	NN18 *Discoaster brouweri*				O Matuyama O	● ϕ=63.0 γ=1.65		1 2 3 4 5 6 7 CC	0.5 1.0				* *

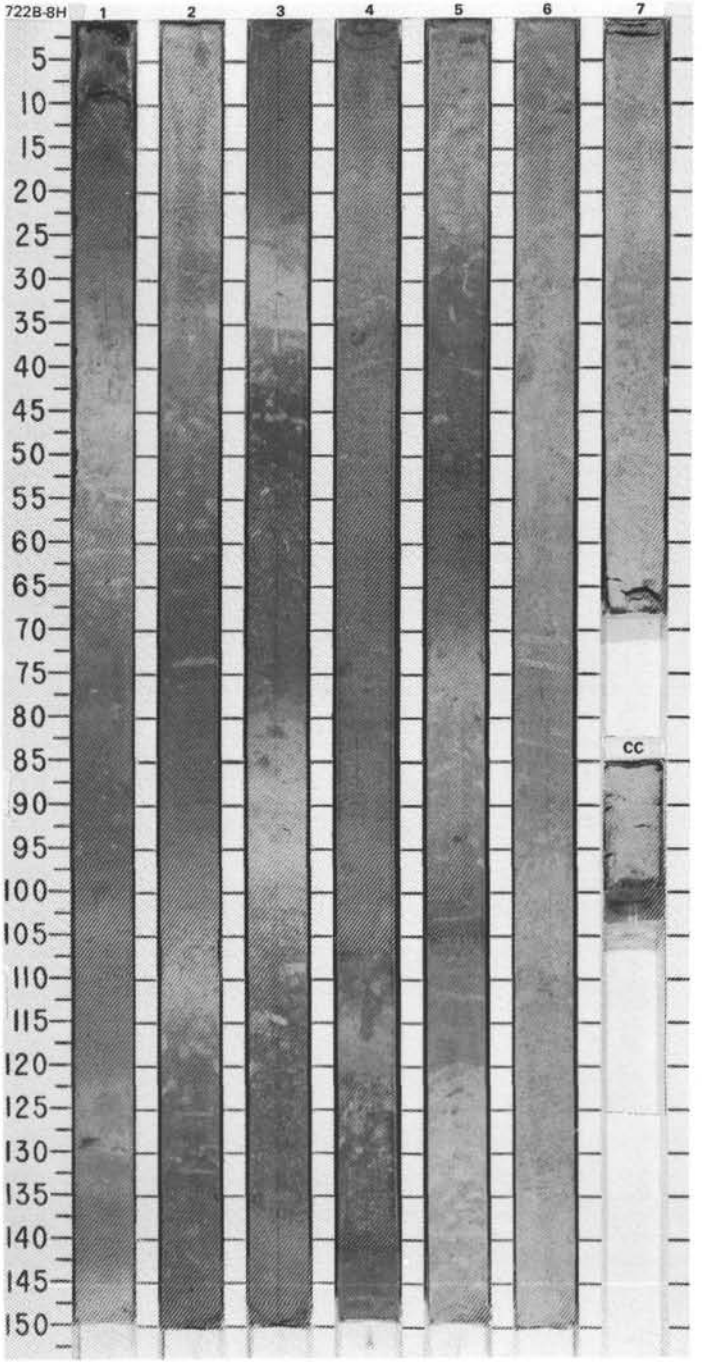
LITHOLOGIC DESCRIPTION

Interbedded NANNOFOSSIL OOZE and FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE CC is slightly disturbed.

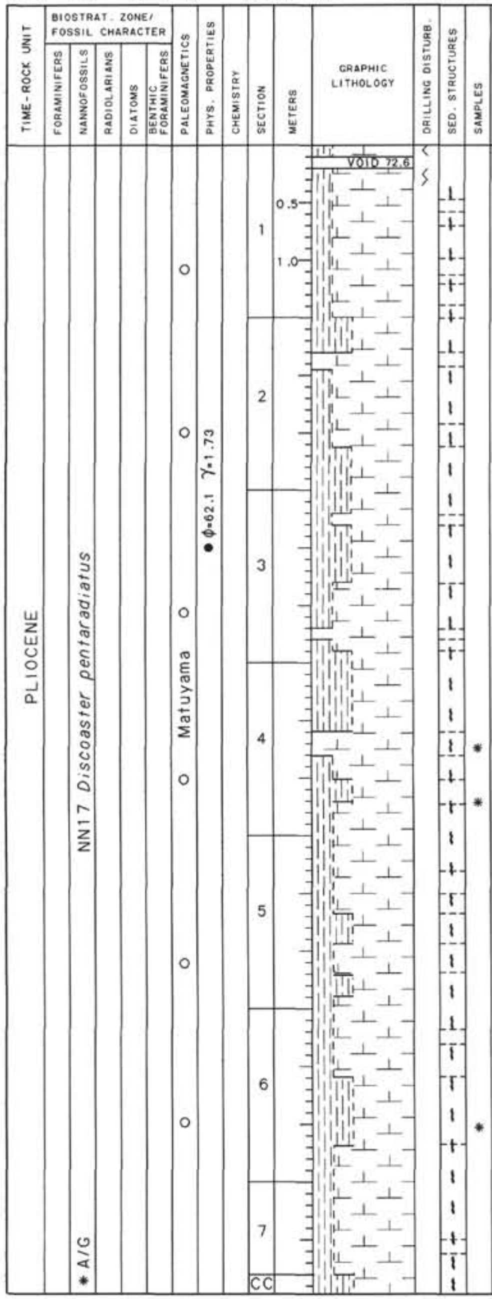
Major lithology: Interbedded NANNOFOSSIL OOZE and FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE. Contacts are gradational. Beds range from light olive gray (5Y 6/2) to light gray (5Y 7/2, 7/1), light greenish gray (10Y 6/2), olive gray (5Y 5/2, 4/2), olive (5Y 4/3, 5/3, 5/4), pale olive (5Y 6/3), and dark greenish gray (10Y 5/2). Bioturbation is minor to moderate throughout.

SMEAR SLIDE SUMMARY (%):

	2, 145 D	5, 77 D
TEXTURE:		
Sand	7	1
Silt	10	4
Clay	83	95
COMPOSITION:		
Access. minerals	2	Tr
Clay	23	10
Diatoms	Tr	
Dolomite	Tr	Tr
Feldspar	1	
Foraminifers	6	1
Volcanic glass	Tr	
Inorganic calcite	5	4
Mica	Tr	
Nannofossils	60	85
Quartz	3	Tr
Radiolarians	Tr	
Sponge spicules		Tr



SITE 722 HOLE B CORE 9H CORED INTERVAL 2100.3-2110.0 mbsl; 72.5-82.2 mbsf



LITHOLOGIC DESCRIPTION

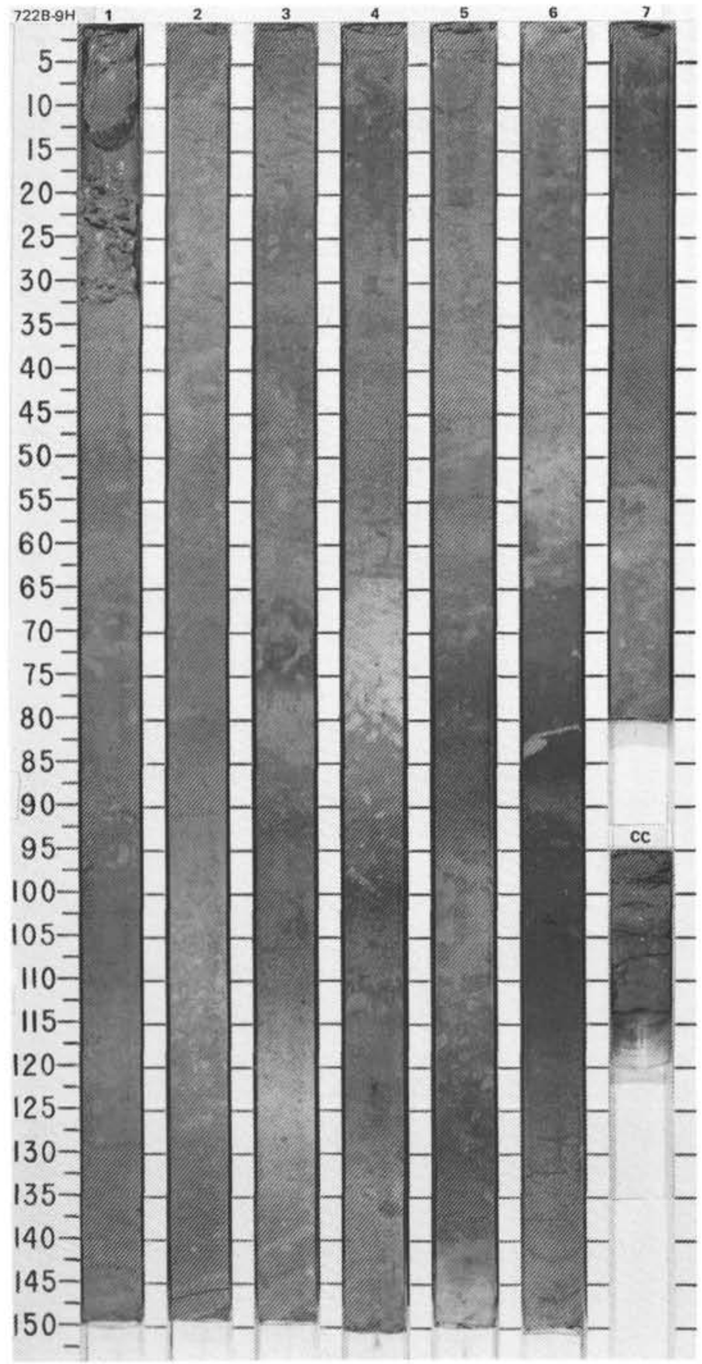
Interbedded MARLY NANNOFOSSIL OOZE and FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE

Section 1, 0-30 cm, is disturbed.

Major lithology: Interbedded MARLY NANNOFOSSIL OOZE and FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE. Contacts are gradational. Beds range from light gray (5Y 7/1, 7/2) to light greenish gray (10Y 6/2), olive (5Y 5/4, 4/3), and pale olive (5Y 6/3, 6/4). Bioturbation is minor throughout.

SMEAR SLIDE SUMMARY (%):

	4, 73 D	4, 121 D	6, 102 D
TEXTURE:			
Sand	5	10	5
Silt	15	15	10
Clay	80	75	85
COMPOSITION:			
Access. minerals	Tr	1	2
Clay	9	20	35
Diatoms	Tr		Tr
Feldspar			Tr
Foraminifers	5	7	2
Volcanic glass	Tr		1
Inorganic calcite	15	14	5
Mica	Tr		
Nannofossils	70	55	50
Quartz	Tr	3	5
Radiolarians	1	Tr	Tr
Sponge spicules	Tr	Tr	



SITE 722 HOLE B CORE 10H CORED INTERVAL 2110.0-2119.7 mbsl; 82.2-91.9 mbsf

TIME-ROCK UNIT: PLIOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS; NANNOFOSSILS: * A/G NN16 *Discoaster surculius*; RADIOLARIANS; DIATOMS; BENTHIC FORAMINIFERS

PALEOMAGNETICS: Gauss; O Matuyama

PHYS. PROPERTIES: ● ϕ=62.1 γ=1.66

CHEMISTRY

SECTION: 1 2 3 4 5 6 7 CC

METERS: 0.5 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES

LITHOLOGIC DESCRIPTION

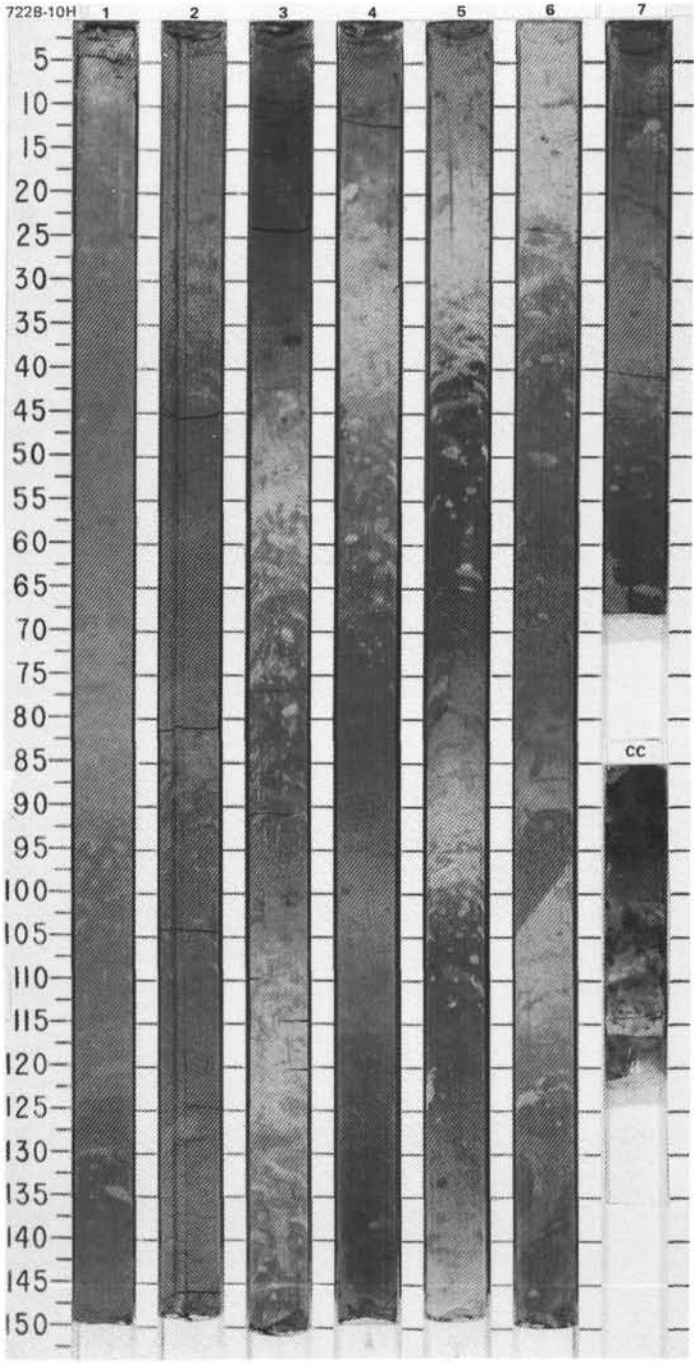
Interbedded FORAMINIFER-BEARING NANNOFOSSIL OOZE and MARLY NANNOFOSSIL OOZE

CC is moderately disturbed.

Major lithology: Interbedded FORAMINIFER-BEARING NANNOFOSSIL OOZE and MARLY NANNOFOSSIL OOZE. Contacts are gradational. Beds range from light olive gray (5Y 6/2) to olive (5Y 5/3, 4/4, 4/3, 5/4), pale olive (5Y 6/3), and dark olive gray (5Y 6/3). Bioturbation is minor to moderate throughout.

SMEAR SLIDE SUMMARY (%):

	3, 12 D	6, 12 D
TEXTURE:		
Sand	10	5
Silt	20	15
Clay	70	80
COMPOSITION:		
Access. minerals	3	Tr
Clay	30	5
Diatoms		Tr
Dolomite	Tr	
Feldspar	3	
Foraminifers	Tr	5
Volcanic glass	1	Tr
Inorganic calcite	10	14
Mica	1	
Nannofossils	40	75
Quartz	12	1
Radiolarians	Tr	Tr
Sponge spicules		Tr



SITE 722 HOLE B CORE 11X CORED INTERVAL 2119.7-2129.3 mbsl; 91.9-101.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLIOCENE	*A/G	NN16 *Discoaster surculus*				• Gauss •	• ϕ=59.7 γ=1.67		1 2 3 4 CC	0.5 1.0			* *	

LITHOLOGIC DESCRIPTION

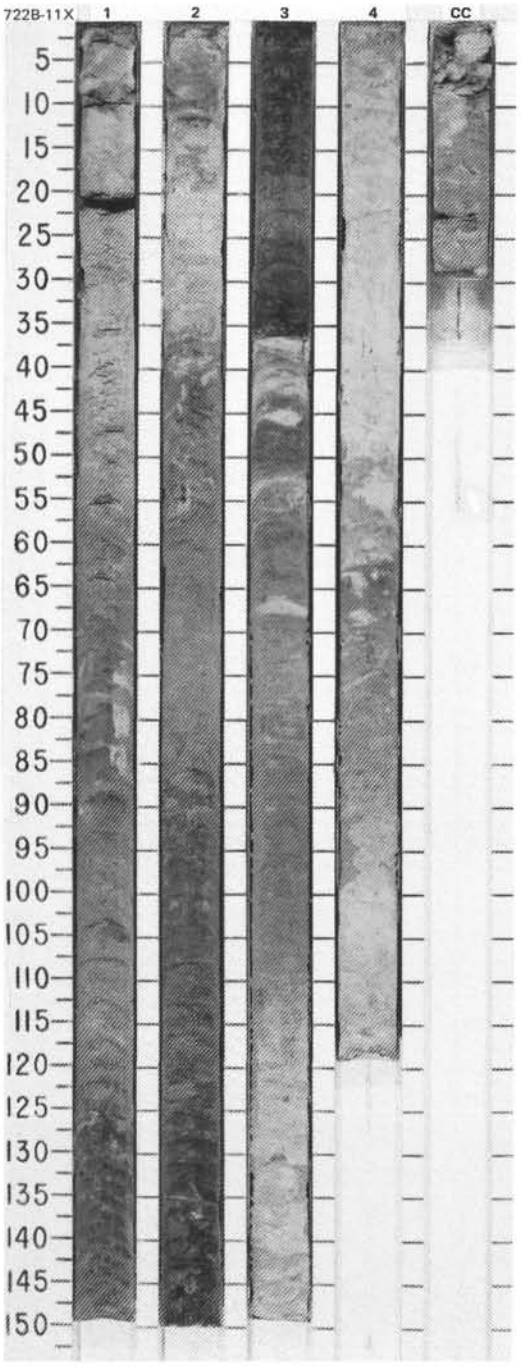
Interbedded NANNOFOSSIL OOZE and MARLY NANNOFOSSIL OOZE

CC is moderately disturbed.

Major lithology: Interbedded NANNOFOSSIL OOZE and MARLY NANNOFOSSIL OOZE. Contacts are gradational. Beds range from light olive gray (5Y 6/2) to light gray (5Y 7/1), olive (5Y 5/4, 4/4, 4/3), and pale olive (5Y 6/3). Bioturbation is minor to moderate throughout.

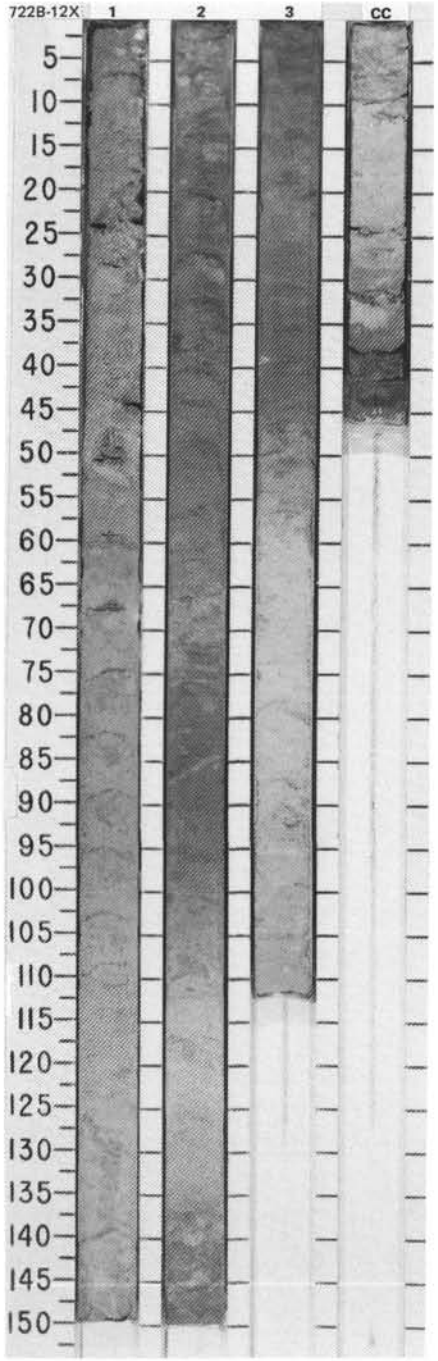
SMEAR SLIDE SUMMARY (%):

	2, 146 D	4, 36 D
TEXTURE:		
Sand	15	5
Silt	10	10
Clay	75	85
COMPOSITION:		
Access. minerals	2	Tr
Clay	30	10
Diatoms		Tr
Feldspar	2	
Foraminifers	2	10
Inorganic calcite	8	10
Mica	1	
Nannofossils	45	70
Quartz	10	Tr
Radiolarians		Tr



SITE 722 HOLE B CORE 12X CORED INTERVAL 2129.3-2139.0 mbsl; 101.5-111.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
PLIOCENE		*A/G NN16 *Discoaster surculus*				● Gauss ●	● Φ-60.3 γ-1.71		1 2 3 CC	0.5 1.0					NANNOFOSSIL OOZE Section 1 is slightly disturbed; initial stages of biscuit formation due to drilling. Major lithology: NANNOFOSSIL OOZE. Beds range from white (5Y 8/1) to light olive gray (5Y 6/2), light gray (5Y 7/1, 7/2), olive (5Y 5/3, 5/4), and pale olive (5Y 6/3). Bioturbation is minor to moderate throughout.



SITE 722 HOLE B CORE 13X CORED INTERVAL 2148.7-2158.3 mbsl; 120.9-130.5 mbsf

TIME-ROCK UNIT: PLIOCENE

BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS; NANNOFOSSILS: * A/G; [NN14 *Discoaster asymmetricus* -NN15 *Reticulofenestra pseudoumbilica*]; RADIOLARIANS; DIATOMS; BENTHIC FORAMINIFERS

PALEOMAGNETICS: O Gilbert O

PHYS. PROPERTIES: ●ϕ=57.3 γ=1.70

CHEMISTRY

SECTION: 1, 2, 3, CC

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: *, *, *

LITHOLOGIC DESCRIPTION

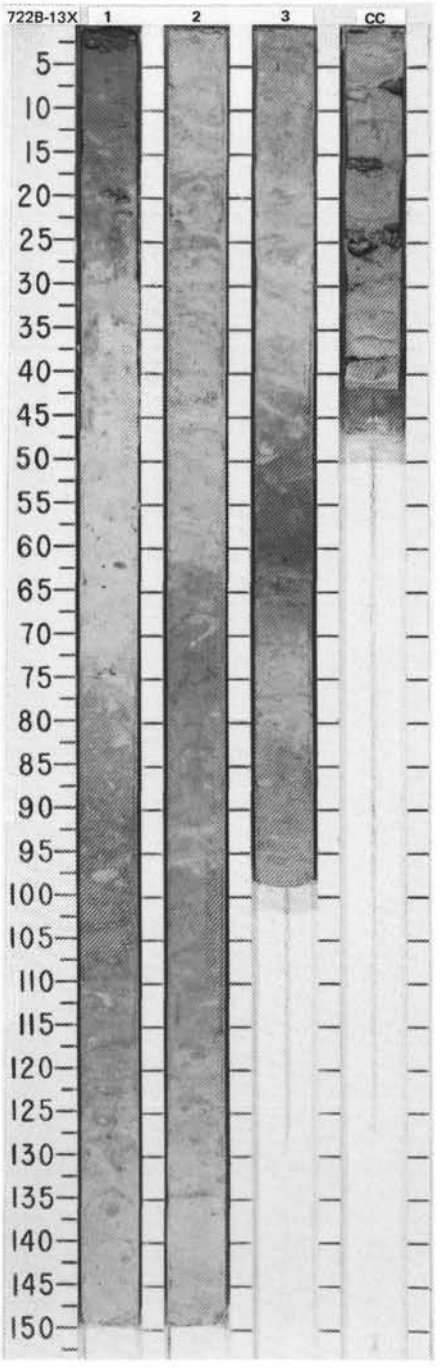
Interbedded FORAMINIFER-BEARING NANNOFOSSIL OOZE and MARLY NANNOFOSSIL OOZE

Section 2 is slightly disturbed.

Major lithology: Interbedded FORAMINIFER-BEARING NANNOFOSSIL OOZE and MARLY NANNOFOSSIL OOZE. Contacts are gradational. Beds range from light olive gray (5Y 6/2) to olive gray (5Y 7/1), light greenish gray (10Y 7/1, 7/2), olive (5Y 5/3), and pale olive (5Y 6/3). Bioturbation is minor throughout.

SMEAR SLIDE SUMMARY (%):

	1, 61 D	1, 100 D	3, 61 D
TEXTURE:			
Sand	10	5	10
Silt	10	15	15
Clay	80	80	75
COMPOSITION:			
Access. minerals		Tr	3
Clay	5	10	
Feldspar			2
Foraminifers	10	5	2
Volcanic glass		Tr	Tr
Inorganic calcite	10	8	10
Mica	Tr	1	25
Nannofossils	75	75	50
Quartz	Tr		8
Radiolarians	Tr	1	



SITE 722 HOLE B CORE 14X CORED INTERVAL 2148.7-2158.3 mbsl; 120.9-130.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLIOCENE	*A/G	NN14 *Discoaster asymmetricus* -NN15 *Reticulofenestra pseudoumbilica*				● Gilbert ○	● ϕ=60.2 γ=1.71		1 2 3 4 5 6 7 CC	0.5 1.0				* *

LITHOLOGIC DESCRIPTION

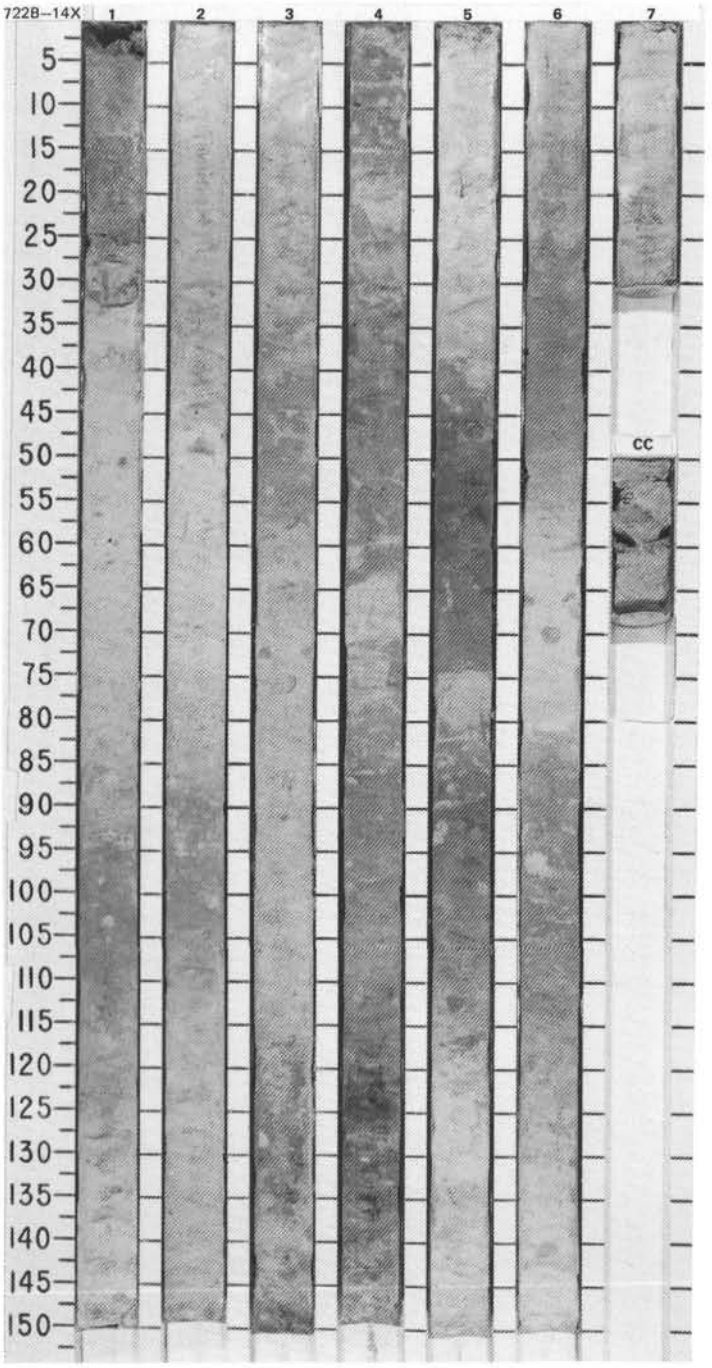
Interbedded NANNOFOSSIL OOZE and MARLY NANNOFOSSIL OOZE

Sections 1-3 and Section 7 are slightly disturbed. CC is moderately disturbed.

Major lithology: Interbedded NANNOFOSSIL OOZE and MARLY NANNOFOSSIL OOZE. Contacts are gradational. Beds range from light olive gray (5Y 6/2) to light gray (5Y 7/1), light greenish gray (10Y 7/1, 7/2, 6/2), and olive (5Y 5/3). Bioturbation is minor to moderate throughout.

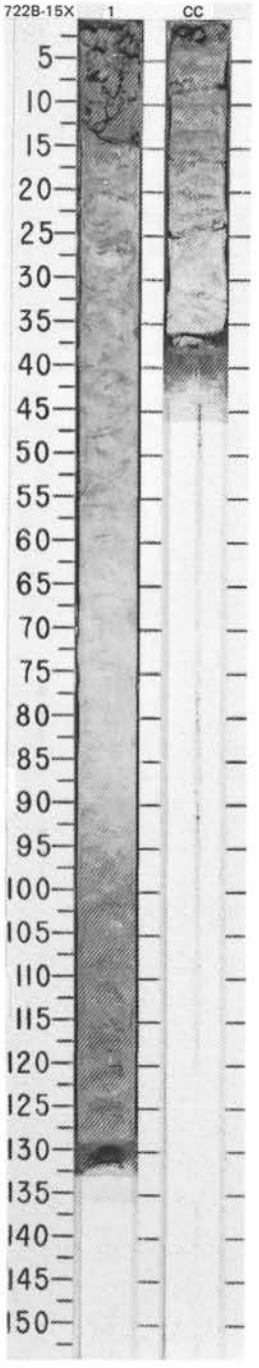
SMEAR SLIDE SUMMARY (%):

	1, 59 D	4, 124 D
TEXTURE:		
Sand	2	10
Silt	8	15
Clay	90	75
COMPOSITION:		
Access. minerals	Tr	3
Clay		30
Diatoms	Tr	Tr
Foraminifers	3	Tr
Volcanic glass		Tr
Inorganic calcite	7	9
Mica		1
Nannofossils	90	45
Quartz		10
Radiolarians	Tr	2
Silicoflagellates		Tr
Sponge spicules		Tr

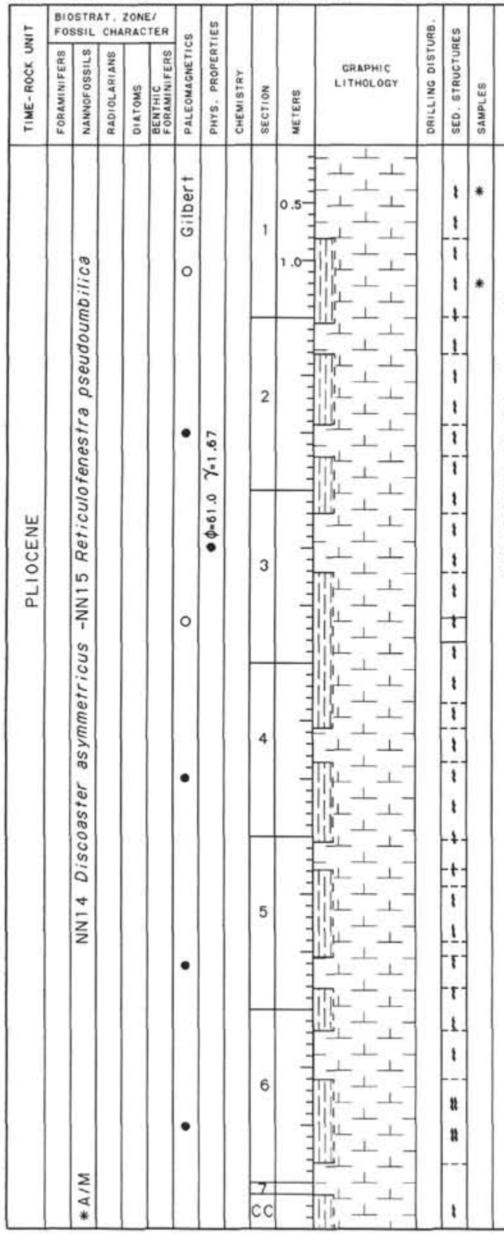


SITE 722 HOLE B CORE 15X CORED INTERVAL 2158.3-2168.0 mbsl; 130.5-140.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
PLIOCENE		NN14 *Discoaster asymmetricus*-NN15 *Reticulofenestra pseudoumbilica* * A/G				O			1 CC	0.5 1.0				*	NANNOFOSSIL OOZE Section 1, 0-15 cm, is very disturbed. Section 1, 15-129 cm, is slightly disturbed. Major lithology: NANNOFOSSIL OOZE. Beds range from light olive gray (5Y 6/2) to light greenish gray (10Y 7/1). Contacts are gradational. Bioturbation is minor to moderate throughout. SMEAR SLIDE SUMMARY (%): 1, 117 D TEXTURE: Sand 3 Silt 7 Clay 90 COMPOSITION: Access. minerals Tr Diatoms Tr Foraminifers 3 Volcanic glass Tr Inorganic calcite 7 Nannofossils 90 Quartz Tr Radiolarians Tr



SITE 722 HOLE B CORE 16X CORED INTERVAL 2168.0-2177.7 mbsl; 140.2-149.9 mbsf



LITHOLOGIC DESCRIPTION

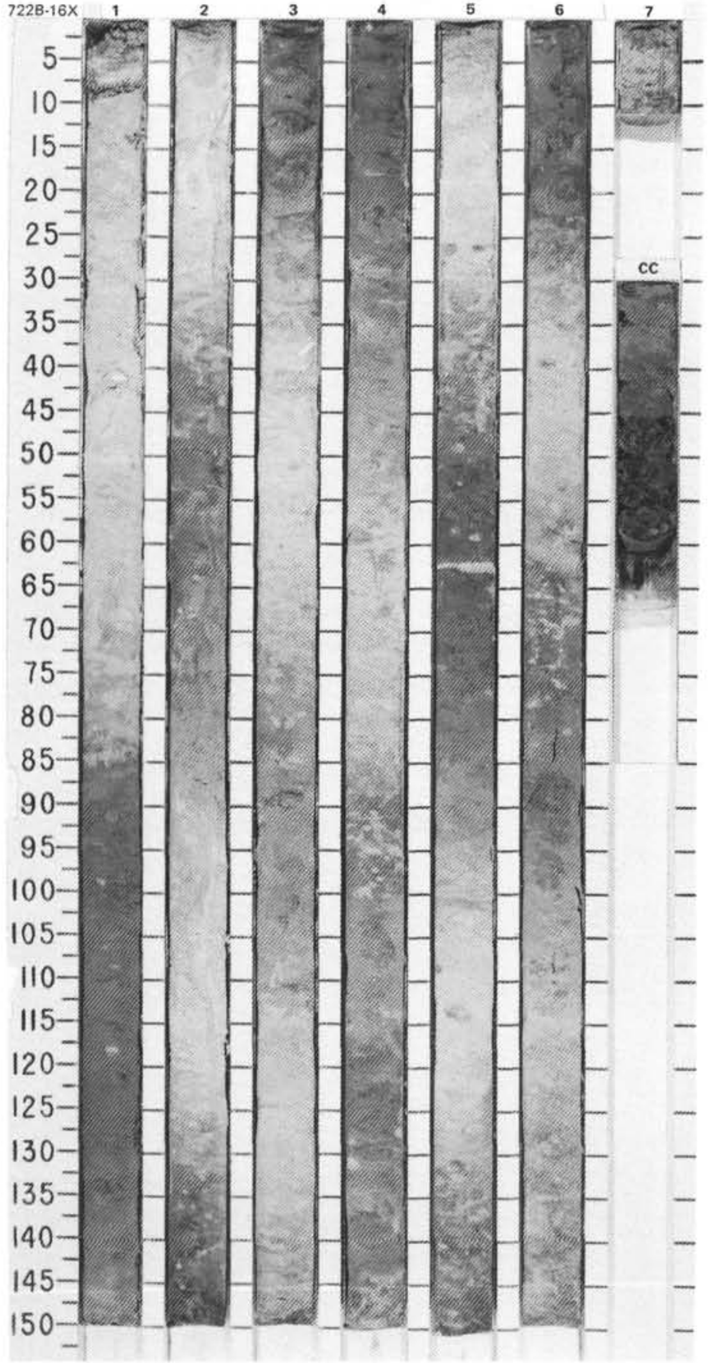
Interbedded NANNOFOSSIL OOZE and DIATOM-BEARING NANNOFOSSIL OOZE

CC is moderately disturbed.

Major lithology: INTERBEDDED NANNOFOSSIL OOZE and DIATOM- BEARING NANNOFOSSIL OOZE. Contacts are gradational. Beds range from light olive gray (5Y 6/2) to light gray (5Y 7/1), light greenish gray (5Y 6/3), olive gray (5Y 4/2), and olive (5Y 4/3, 4/4, 5/3). Bioturbation is minor to moderate throughout. Diatom-bearing beds occur as darker, more clayey beds.

SMEAR SLIDE SUMMARY (%):

	1, 40 D	1, 120 D
TEXTURE:		
Silt	10	20
Clay	90	80
COMPOSITION:		
Clay	10	10
Diatoms	Tr	10
Dolomite	Tr	Tr
Foraminifers	Tr	5
Inorganic calcite	5	5
Nannofossils	85	70
Quartz	Tr	Tr
Silicoflagellates		Tr



SITE 722 HOLE B CORE 17X CORED INTERVAL 2177.7-2187.3 mbsl; 149.9-159.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLIOCENE	* A/M	NN12 *Amaurolithus tricorniculatus* - NN13 *Ceratolithus rugosus*				O Gilbert O	● ϕ=63.7 γ=1.69	● Thvera ●	1 2 3 4 5 6 7 CC	0.5 1.0		—		* *

LITHOLOGIC DESCRIPTION

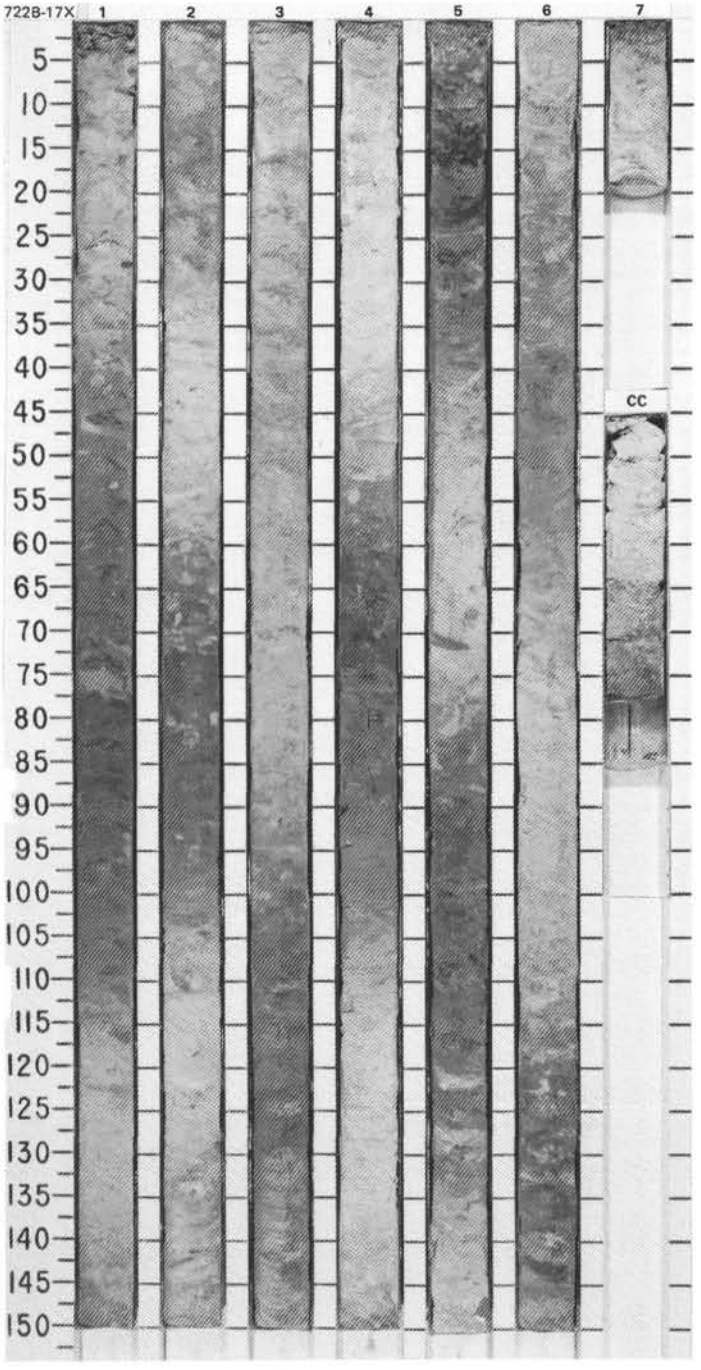
NANNOFOSSIL CHALK

Section 1, 0-10 cm, is moderately disturbed.

Major lithology: NANNOFOSSIL CHALK. Beds range from light gray (5Y 7/1) to light greenish gray (10Y 7/1, 6/2), olive gray (5Y 5/2), olive (5Y 5/3, 4/2, 4/3), and dark greenish gray (10Y 5/2). Contacts are gradational except for a sharp contacts in Section 2, 20-110 cm. Bioturbation is minor to moderate throughout.

SMEAR SLIDE SUMMARY (%):

	4, 21 D	5, 21 D
TEXTURE:		
Silt	10	10
Clay	90	90
COMPOSITION:		
Clay	10	10
Diatoms	5	Tr
Foraminifers	5	
Inorganic calcite	Tr	5
Nannofossils	80	85
Quartz	Tr	Tr



SITE 722 HOLE B CORE 18X CORED INTERVAL 2187.3-2197.0 mbsl; 159.5-169.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
MIOCENE	* A/M	NN11 *Discoaster quinqueramus*				Gilbert	● ϕ-61.2 γ-1.72		1 2 3 4 5 6 7 CC	0.5 1.0				*

LITHOLOGIC DESCRIPTION

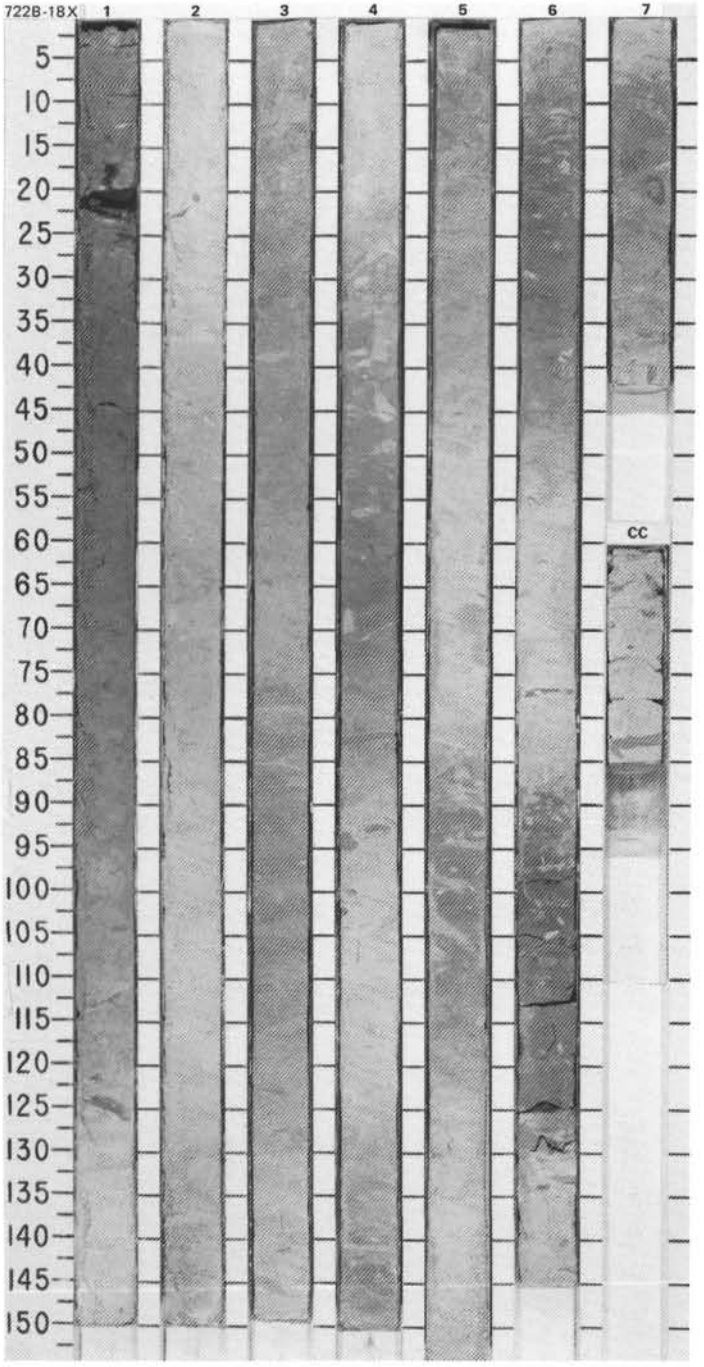
NANNOFOSSIL CHALK

Section 1, 70 cm, to Section 2, 150 cm, is slightly disturbed. Section 4 to Section 6 is slightly to moderately disturbed. CC is moderately disturbed.

Major lithology: NANNOFOSSIL CHALK. Beds range from gray (5Y 6/1) to light olive gray (5Y 6/2), light gray (5Y 7/1), olive gray (5Y 5/2), and olive (5Y 5/3). Contacts are gradational. Bioturbation is minor throughout.

SMEAR SLIDE SUMMARY (%):

	4, 60 D
TEXTURE:	
Silt	10
Clay	90
COMPOSITION:	
Clay	10
Diatoms	Tr
Foraminifers	Tr
Inorganic calcite	5
Nannofossils	85
Quartz	Tr



SITE 722 HOLE B CORE 19X CORED INTERVAL 2197.0-2206.7 mbsl; 169.2-178.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	BENTHIC FORAMINIFERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
MIOCENE		NN11 *Discoaster quinqueramus*				O			1	0.5				
										1.0				
						O			2					
						O			3					*
						O			4					*
						O			5					
		* A/M				O	Gilbert		6					
							● ϕ=59.6 7.1.76		CC					

LITHOLOGIC DESCRIPTION

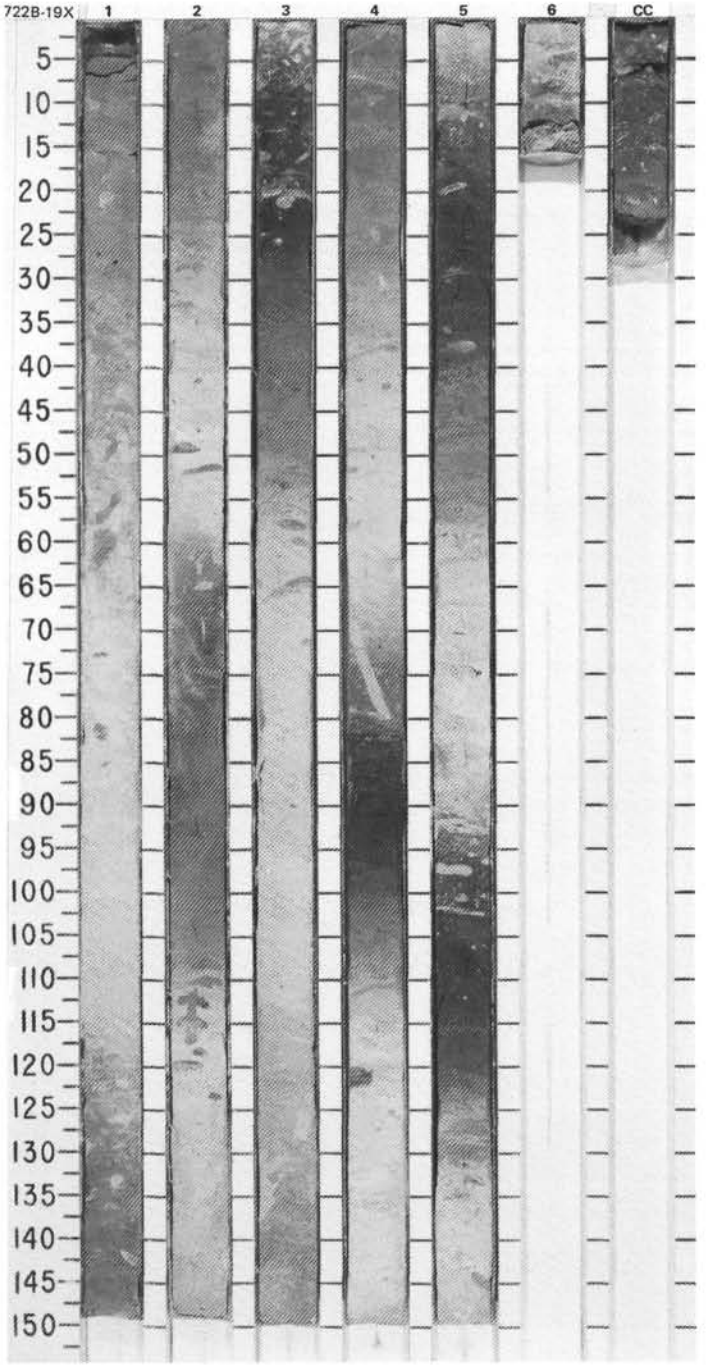
NANNOFOSSIL CHALK

Section 1 to Section 2 is slightly disturbed. CC is moderately disturbed.

Major lithology: NANNOFOSSIL CHALK. Beds range from light olive gray (5Y 6/2) to light gray (5Y 7/1), light greenish gray (10Y 7/1), olive gray (5Y 5/2, 4/2), olive (5Y 5/3, 4/3), pale olive (5Y 6/3), dark greenish gray (5Y 6/3), and dark olive gray (5Y 3/2). Contacts are gradational. Bioturbation is minor to strong.

SMEAR SLIDE SUMMARY (%):

	3, 25 D	4, 51 D
TEXTURE:		
Silt	10	10
Clay	90	90
COMPOSITION:		
Clay	10	20
Diatoms	Tr	1
Foraminifers	Tr	5
Inorganic calcite	5	5
Nannofossils	85	69
Organic debris	Tr	
Quartz	Tr	Tr
Radiolarians		Tr
Sponge spicules	Tr	Tr



SITE 722 HOLE B CORE 20X CORED INTERVAL 2206.7-2216.3 mbsl; 178.9-188.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
MIOCENE	*A/M	NN11 *Discoaster quinqueramus*			O Gilbert O	● ϕ-59.4 γ-1.73		1	0.5				
									1.0				
								2					*
								3					
								CC					

LITHOLOGIC DESCRIPTION

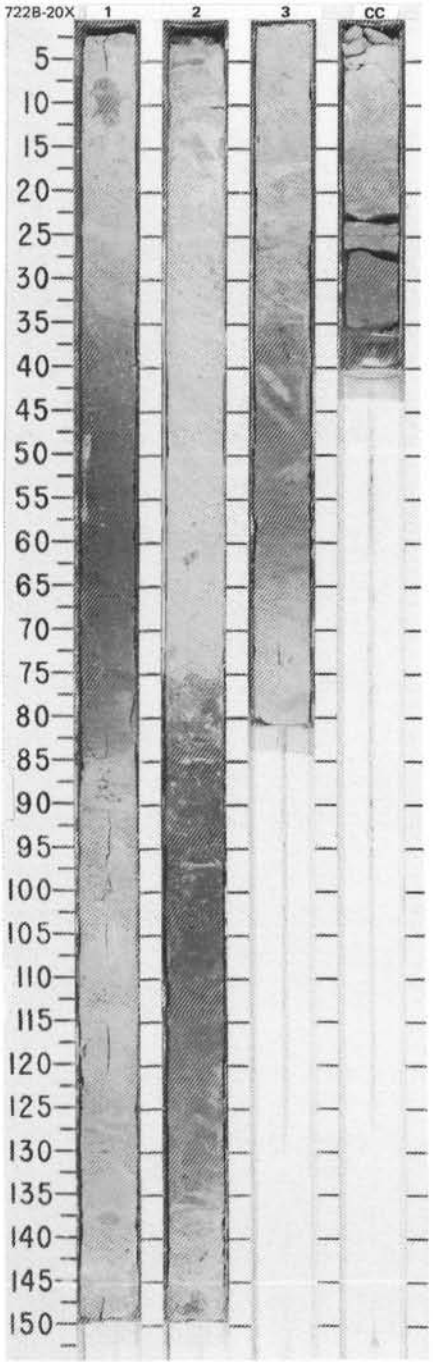
Interbedded NANNOFOSSIL CHALK and MARLY NANNOFOSSIL CHALK

Section 1 is slightly disturbed. CC is moderately disturbed.

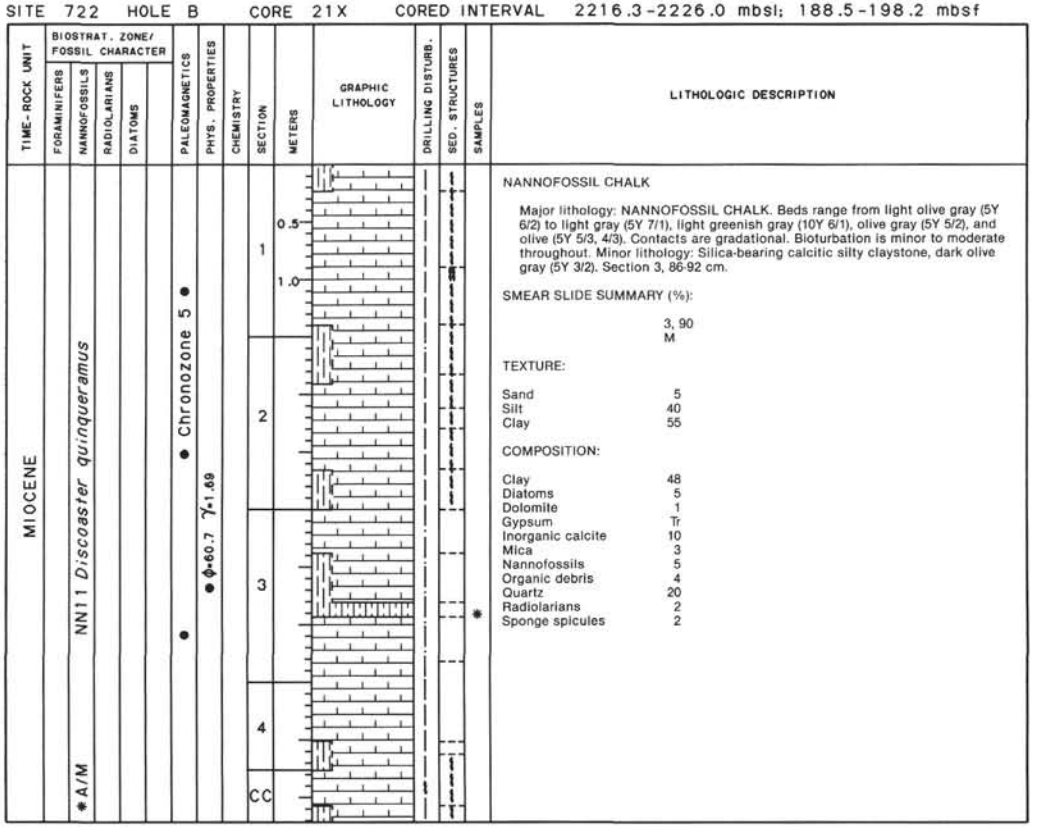
Major lithology: Interbedded NANNOFOSSIL CHALK and MARLY NANNOFOSSIL CHALK. Contacts are gradational. Beds range from light olive gray (5Y 6/2) to light gray (5Y 7/1), olive gray (5Y 5/2), olive (5Y 5/3), pale olive (5Y 6/3), and dark greenish gray (10Y 4/3). Bioturbation is minor to moderate throughout.

SMEAR SLIDE SUMMARY (%):

	2, 93 D
TEXTURE:	
Silt	10
Clay	90
COMPOSITION:	
Clay	25
Diatoms	1
Foraminifers	5
Inorganic calcite	7
Mica	3
Nannofossils	55
Quartz	3
Radiolarians	1
Rock fragments	Tr



SITE 722 HOLE B CORE 21X CORED INTERVAL 2216.3-2226.0 mbsl; 188.5-198.2 mbsf

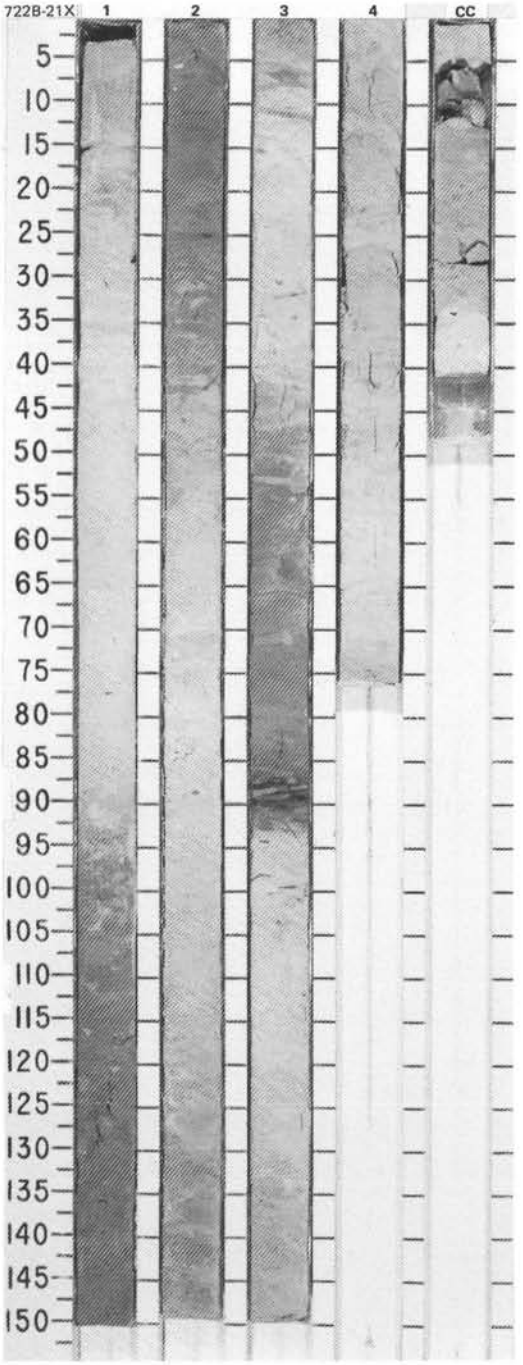


NANNOFOSSIL CHALK

Major lithology: NANNOFOSSIL CHALK. Beds range from light olive gray (5Y 6/2) to light gray (5Y 7/1), light greenish gray (10Y 6/1), olive gray (5Y 5/2), and olive (5Y 5/3, 4/3). Contacts are gradational. Bioturbation is minor to moderate throughout. Minor lithology: Silica-bearing calcitic silty claystone, dark olive gray (5Y 3/2). Section 3, 86-92 cm.

SMEAR SLIDE SUMMARY (%):

	3, 90 M
TEXTURE:	
Sand	5
Silt	40
Clay	55
COMPOSITION:	
Clay	48
Diatoms	5
Dolomite	1
Gypsum	Tr
Inorganic calcite	10
Mica	3
Nannofossils	5
Organic debris	4
Quartz	20
Radiolarians	2
Sponge spicules	2



SITE 722 HOLE B CORE 22X CORED INTERVAL 2226.0-2235.7 mbsl; 198.2-207.9 mbsf

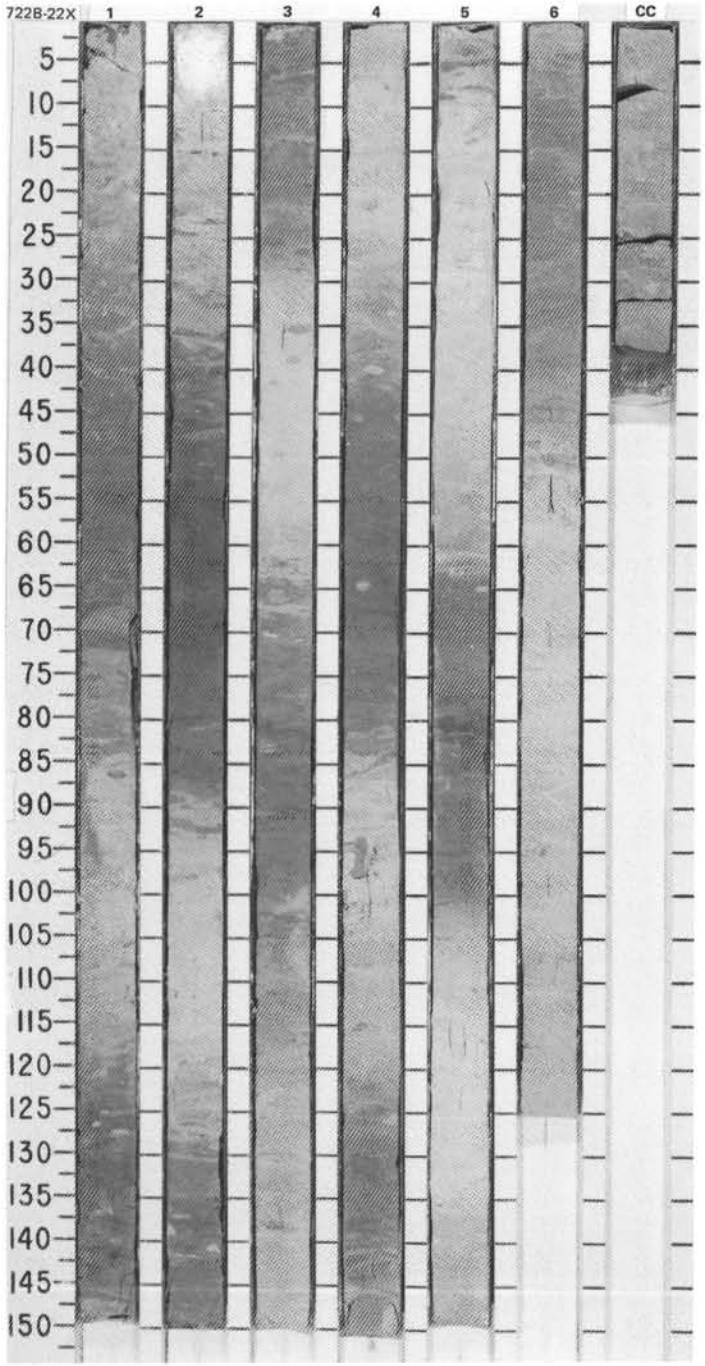
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIOCENE	*A/M	NN11 *Discoaster quinqueramus*			• Chronozone 5 •	• ϕ-59.9 γ-1.69		1 2 3 4 5 6 CC	0.5 1.0				*	Interbedded DIATOM-BEARING NANNOFOSSIL CHALK and MARLY NANNOFOSSIL CHALK

Section 1 and CC are moderately disturbed. Sections 2 and 3 are slightly disturbed.

Major lithology: Interbedded DIATOM-BEARING NANNOFOSSIL CHALK and MARLY NANNOFOSSIL CHALK. Contacts are gradational. Beds range from white (5Y 8/1) to gray (5Y 6/1), light gray (5Y 7/1, 7/2), and olive (5Y 5/3, 5/4, 4/3). Bioturbation is minor to moderate throughout.

SMEAR SLIDE SUMMARY (%):

	2, 71 D
TEXTURE:	
Silt	20
Clay	80
COMPOSITION:	
Access. minerals	2
Clay	30
Diatoms	5
Foraminifers	3
Inorganic calcite	3
Nannofossils	55
Organic debris	2
Quartz	Tr
Radiolarians	Tr



SITE 722 HOLE B CORE 23X CORED INTERVAL 2235.7-2245.3 mbsl; 207.9-217.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
MIOCENE	*A/M	NN11 *Discoaster quinqueramus*			● Chronozone 5 ●	●ϕ=59.7 γ=1.73		1	0.5 / 1.0				
								2					
					●	●		3					
								4					*
					●			5					
								CC					

LITHOLOGIC DESCRIPTION

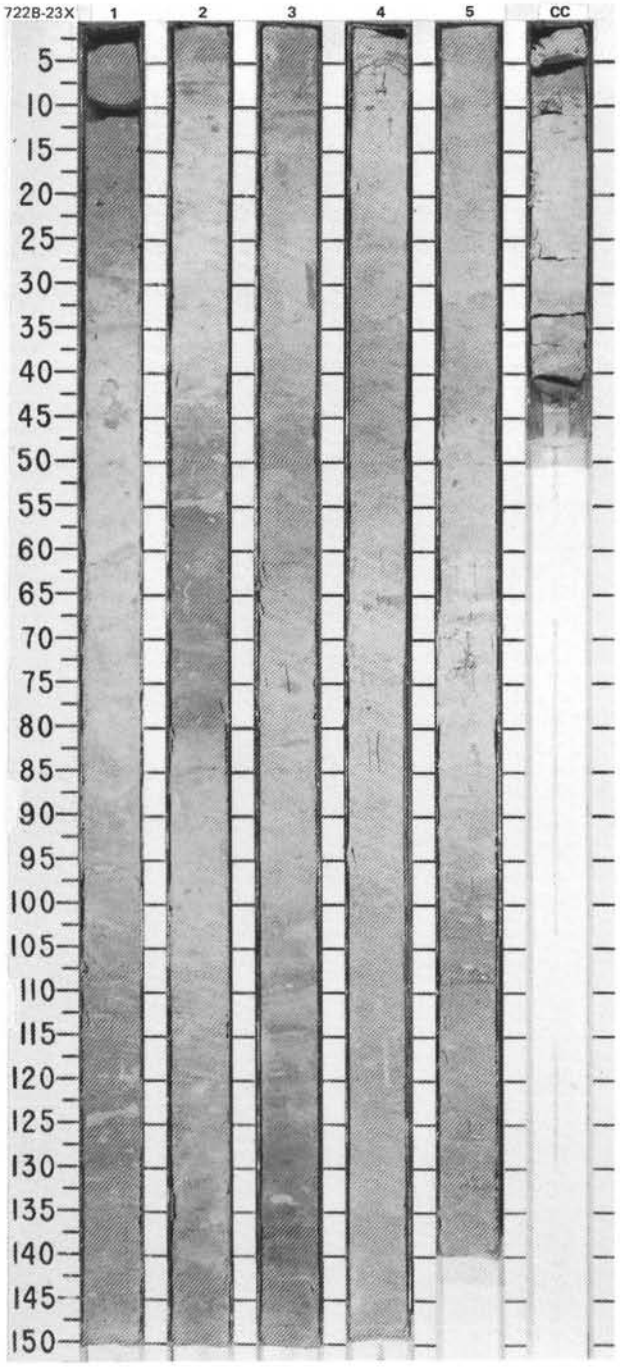
NANNOFOSSIL CHALK

Sections 1-3 are slightly disturbed. CC is highly fragmented.

Major lithology: NANNOFOSSIL CHALK. Beds range from light olive gray (5Y 7/1, 7/2) to olive gray (5Y 5/2) and pale olive (5Y 6/3). Contacts are gradational. Bioturbation is minor throughout.

SMEAR SLIDE SUMMARY (%):

	4, 80 D
TEXTURE:	
Silt	5
Clay	95
COMPOSITION:	
Clay	10
Foraminifers	5
Inorganic calcite	Tr
Nannofossils	85
Quartz	Tr



SITE 722 HOLE B CORE 24X CORED INTERVAL 2245.3-2255.0 mbsl; 217.5-227.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
MIOCENE	* A/M	NN11 *Discoaster quinqueramus*			o Chronozone 6 o	• ϕ=80.5 γ=1.75		1 2 3 4 5 6 7 CC	0.5 1.0	VOID 217.28		* *	

LITHOLOGIC DESCRIPTION

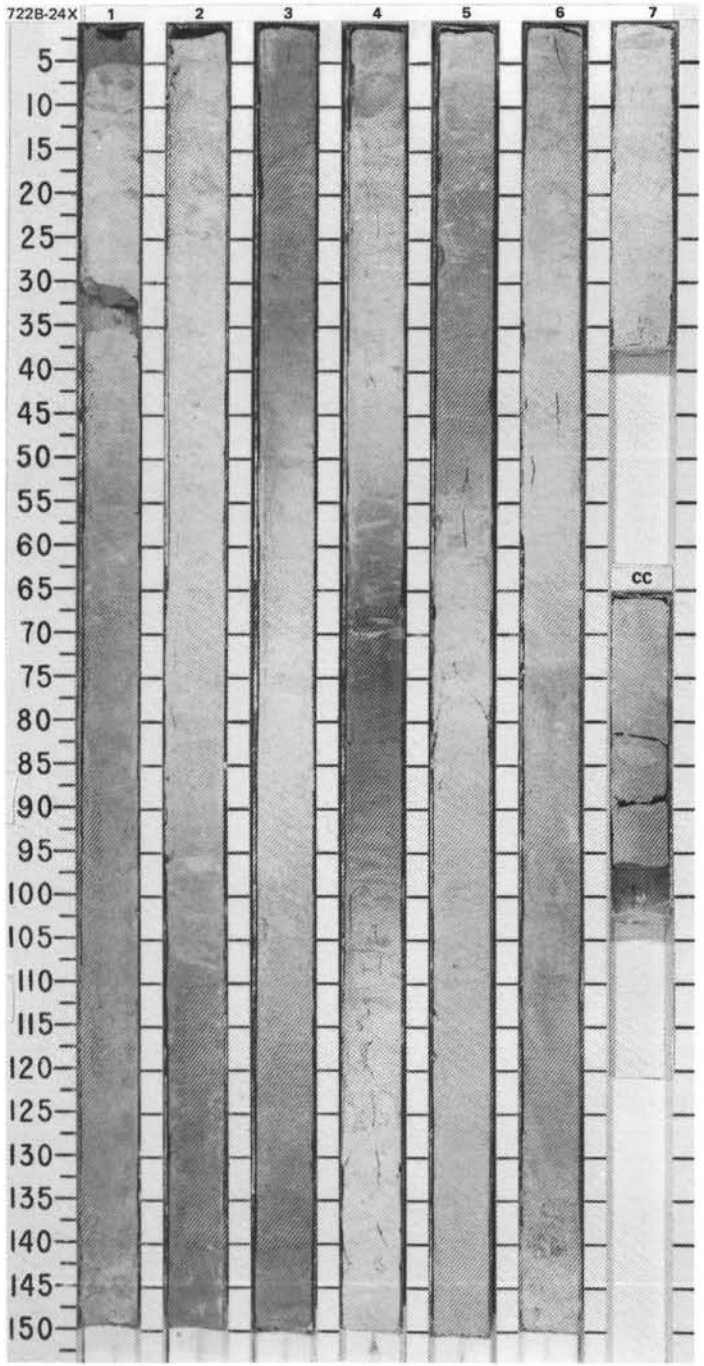
Interbedded NANNOFOSSIL CHALK and DIATOM-BEARING NANNOFOSSIL CHALK

Entire core is slightly disturbed.

Major lithology: Interbedded NANNOFOSSIL CHALK and DIATOM- BEARING NANNOFOSSIL CHALK. Contacts are gradational. Beds range from light olive gray (5Y 6/2) to light gray (5Y 7/1). Bioturbation is minor throughout.

SMEAR SLIDE SUMMARY (%):

	2, 44 D	4, 72 D
TEXTURE:		
Sand		5
Silt	10	30
Clay	90	65
COMPOSITION:		
Clay	20	15
Diatoms	1	5
Dolomite		Tr
Foraminifers	5	3
Inorganic calcite		15
Mica		2
Nannofossils	74	50
Pyrite		3
Quartz		5
Radiolarians	Tr	1
Sponge spicules	Tr	1



SITE 722 HOLE B CORE 25X CORED INTERVAL 2255.0-2264.7 mbsl; 227.2-236.9 mbsf

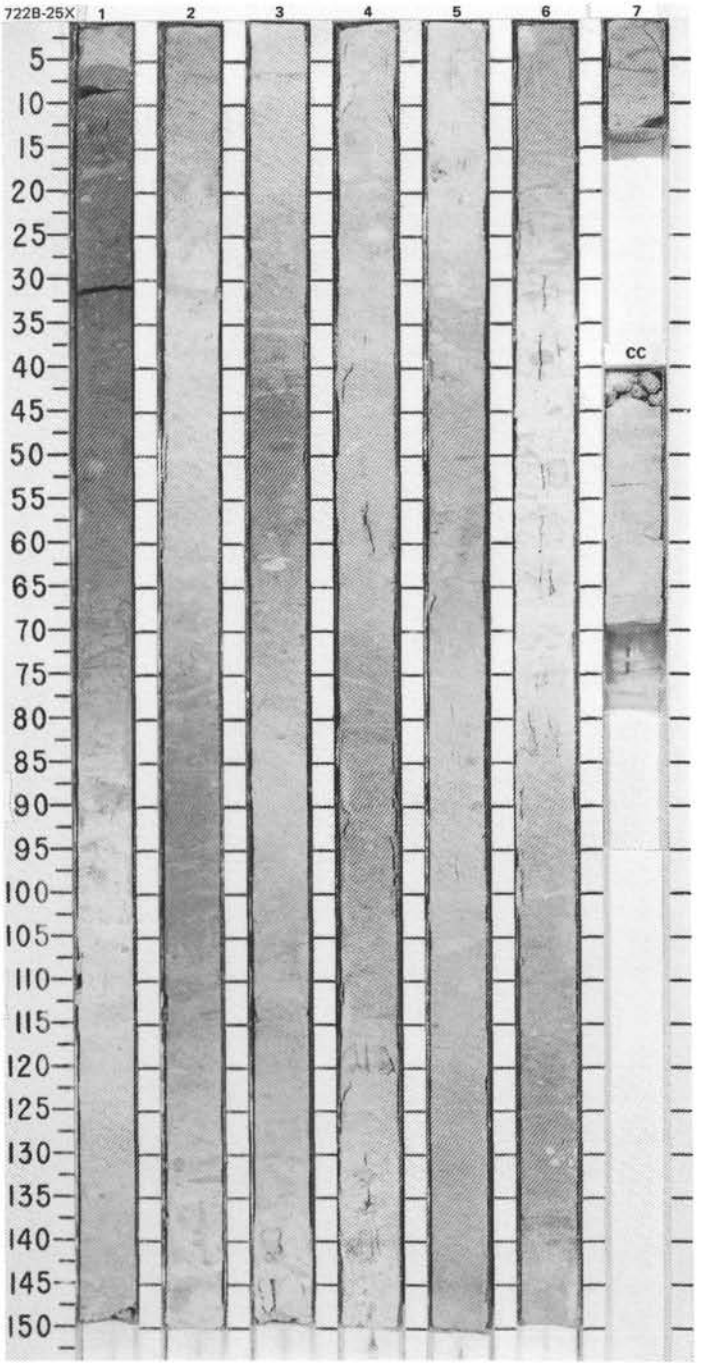
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIOCENE	* A/M	NN11 *Discoaster quinqueramus*				● ϕ=58.4 γ=1.75		1 2 3 4 5 6 7 CC	0.5 1.0				* *	Interbedded NANNOFOSSIL CHALK and DIATOM-BEARING NANNOFOSSIL CHALK

Sections 1-2, 5-7, and CC are slightly disturbed.

Major lithology: Interbedded NANNOFOSSIL CHALK and DIATOM- BEARING NANNOFOSSIL CHALK. Contacts are gradational. Beds range from white (5Y 8/1) to light olive gray (5Y 7/1, 7/2), olive gray (5Y 5/2), and olive (5Y 5/3). Bioturbation is minor throughout.

SMEAR SLIDE SUMMARY (%):

	1, 25 D	6, 60 D
TEXTURE:		
Silt	15	20
Clay	85	80
COMPOSITION:		
Clay	10	10
Diatoms	5	1
Dolomite	Tr	
Foraminifers	5	5
Inorganic calcite	5	3
Nannofossils	75	78
Quartz	Tr	
Radiolarians		3
Rock fragments		Tr



SITE 722 HOLE B CORE 26X CORED INTERVAL 2264.7-2274.3 mbsl; 236.9-246.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
MIOCENE	* A/M	NN11 *Discoaster quinqueramus*			● ○ ○ ○ ●	● ϕ=64.1 γ=1.67		1 2 3 4 5 6 7	0.5 1.0				*

LITHOLOGIC DESCRIPTION

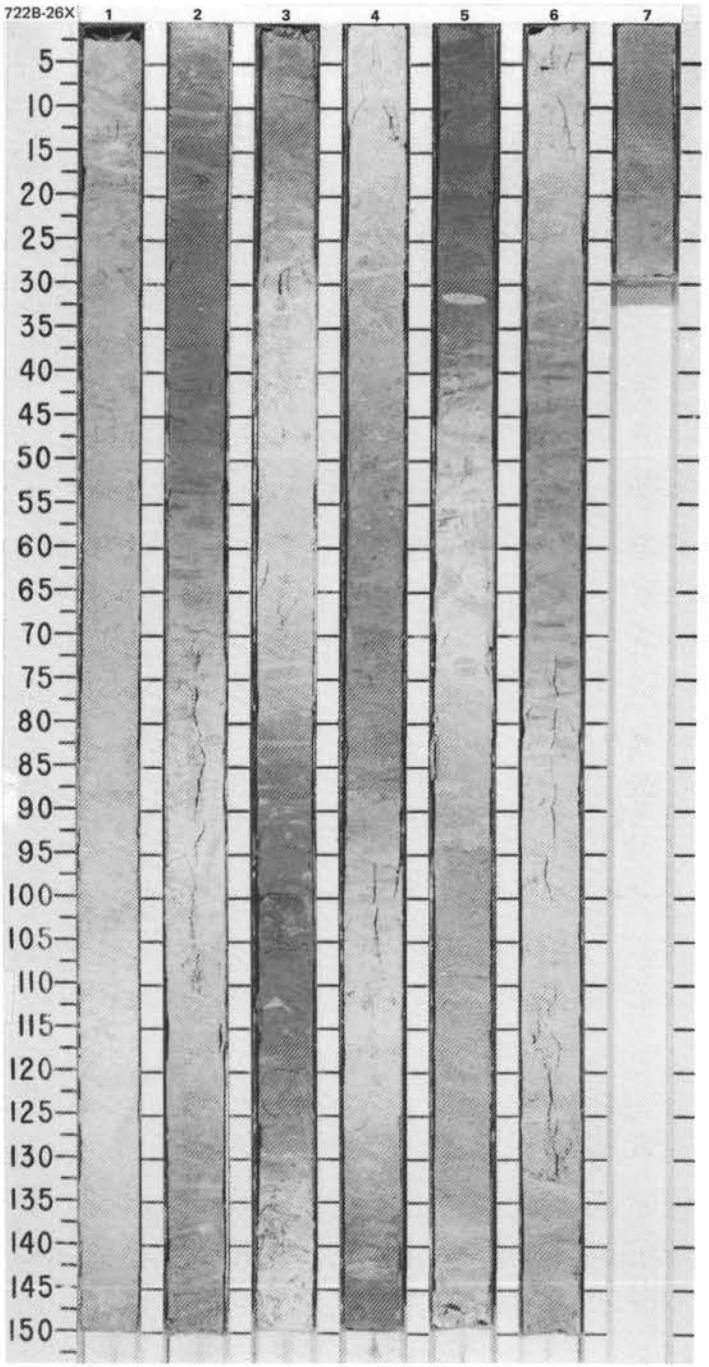
Interbedded NANNOFOSSIL CHALK and DIATOM-BEARING NANNOFOSSIL CHALK

Sections 1-4 and Section 6 are slightly disturbed.

Major lithology: Interbedded NANNOFOSSIL CHALK and DIATOM- BEARING NANNOFOSSIL OOZE. Contacts are gradational. Beds range from light olive gray (5Y 6/2) to light gray (5Y 7/2, 7/1), olive gray (5Y 5/2), and olive (5Y 5/3). Bioturbation is minor to moderate throughout.

SMEAR SLIDE SUMMARY (%):

	4, 60 D
TEXTURE:	
Sand	5
Silt	10
Clay	85
COMPOSITION:	
Clay	10
Diatoms	5
Foraminifers	5
Inorganic calcite	Tr
Nannofossils	80
Quartz	Tr
Radiolarians	Tr



SITE 722 HOLE B CORE 27X CORED INTERVAL 2274.3-2284.0 mbsl; 246.5-256.2 mbsf

TIME-ROCK UNIT: MIOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS *A/M; NANNOFOSSILS NN11 *Discoaster quinqueramus*; RADIOLARIANS; DIATOMS

PALEOMAGNETICS

PHYS. PROPERTIES: ϕ=61.0 γ=1.76

CHEMISTRY: IC=9.09 OC=0.21

SECTION: 1, 2, 3, 4, 5, 6, 7, CC

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: OG, IW

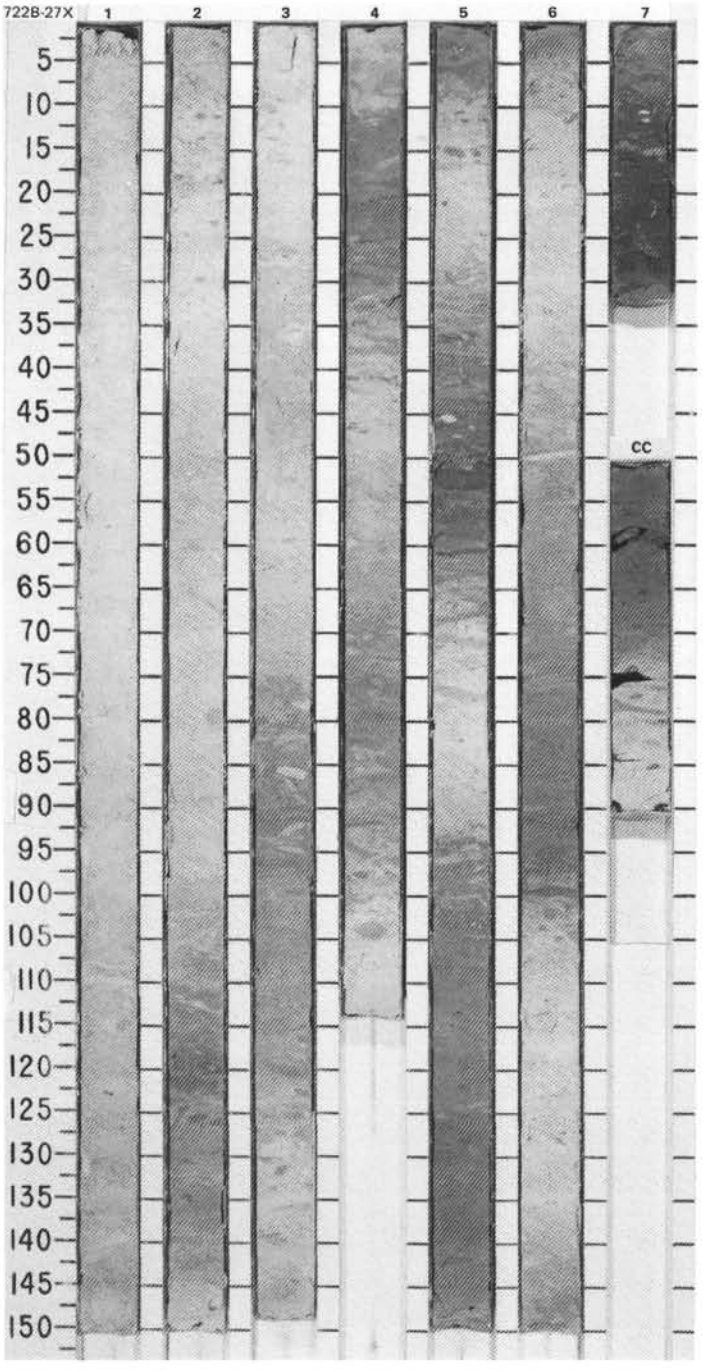
LITHOLOGIC DESCRIPTION

Interbedded NANNOFOSSIL CHALK and DIATOM-NANNOFOSSIL CHALK

Major lithology: Interbedded NANNOFOSSIL CHALK and DIATOM-NANNOFOSSIL CHALK. Contacts are gradational. Beds range from white (5Y 8/1) to gray (5Y 6/1), light gray (5Y 7/1, 6/1), light greenish gray (10Y 7/1, 6/2), olive gray (5Y 5/2), olive (5Y 5/3, 4/3, 5/4), and pale olive (5Y 6/3). Bioturbation is minor throughout. The diatom-nannofossil chalk occurs mainly as darker beds.

SMEAR SLIDE SUMMARY (%):

	2, 80 D	5, 114 D
TEXTURE:		
Sand	5	
Silt	20	15
Clay	75	85
COMPOSITION:		
Access. minerals		Tr
Clay	10	
Diatoms	20	2
Dolomite	Tr	
Foraminifers		5
Inorganic calcite	Tr	10
Nannofossils	70	80
Quartz	Tr	Tr
Radiolarians	Tr	3
Silicoflagellates	Tr	Tr
Sponge spicules	Tr	Tr

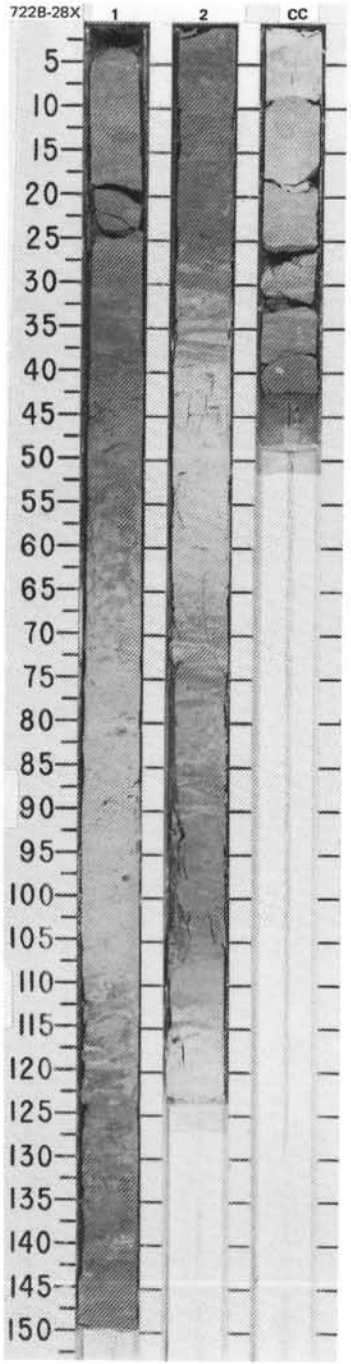


SITE 722 HOLE B CORE 28X CORED INTERVAL 2284.0-2293.7 mbsl; 256.2-265.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIOCENE	A/M *	NN11 *Discoaster quinqueramus*			•	• ϕ=60.5 γ=1.70		1	0.5					Interbedded NANNOFOSSIL CHALK and DIATOM-BEARING NANNOFOSSIL CHALK
	C/G *	*Didymocyrtis antepenultima*						1	1.0					Entire core is moderately disturbed.
					•			2					*	Major lithology: Interbedded NANNOFOSSIL CHALK and DIATOM-NANNOFOSSIL CHALK. Contacts are gradational. Beds range from light olive gray (5Y 6/2) to light gray (5Y 7/1) and olive gray (5Y 5/2). Bioturbation is minor throughout.
								CC						

SMEAR SLIDE SUMMARY (%):

	2, 20 D
TEXTURE:	
Sand	5
Silt	15
Clay	80
COMPOSITION:	
Clay	10
Diatoms	5
Dolomite	Tr
Foraminifers	5
Nannofossils	80
Quartz	Tr
Radiolarians	Tr
Silicoflagellates	Tr



SITE 722 HOLE B CORE 29X CORED INTERVAL 2293.7-2303.4 mbsl; 265.9-275.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
UPPER MIOCENE	*A/G-M	NN11 *Discoaster quinqueramus*	*C/G	*C/G *Didymocyrtis antepenultima*	•	•	IC=8.77 OC=0.27 • IC=4.69 OC=2.26	1 2 3 4 5 6 7 CC	0.5 1.0				PP

LITHOLOGIC DESCRIPTION

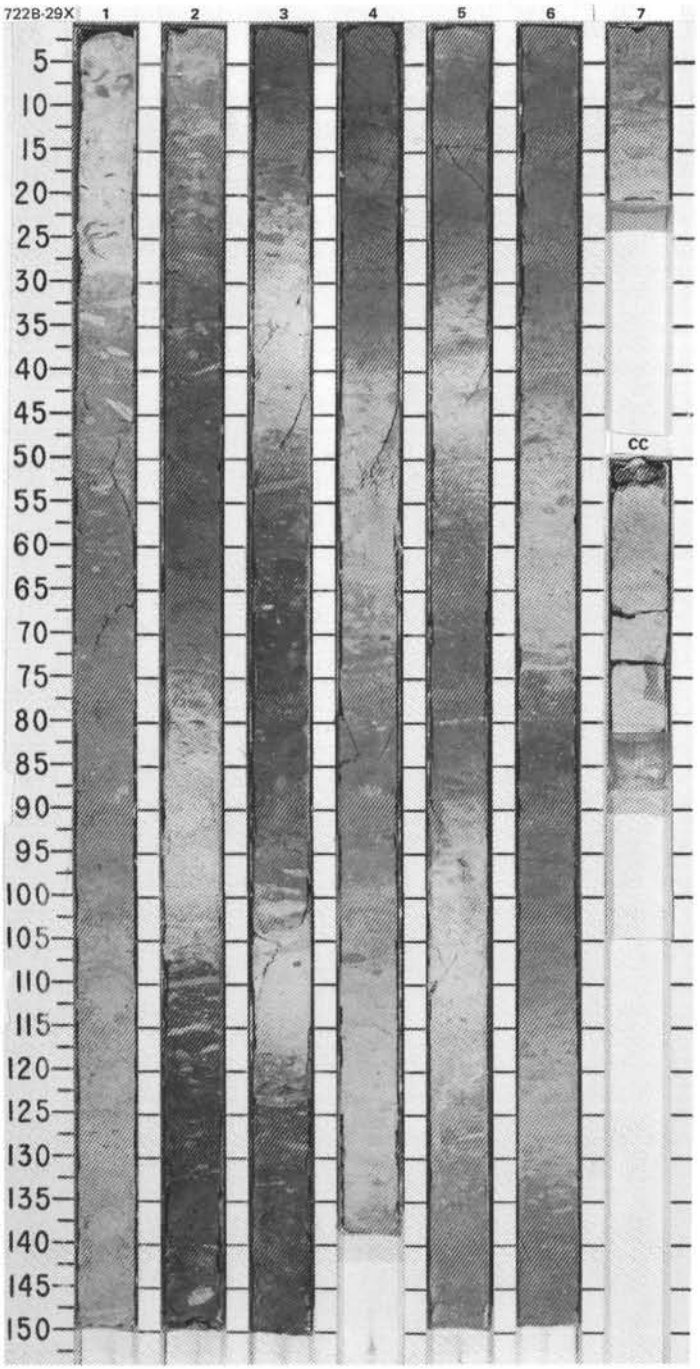
Interbedded NANNOFOSSIL CHALK and DIATOM-BEARING NANNOFOSSIL CHALK

Section 2, 0-70 cm, is very disturbed. Section 1 and Section 5, 50 cm, to Section 7, 20 cm, are moderately disturbed. Remainder of the core is slightly disturbed.

Major lithology: Interbedded NANNOFOSSIL CHALK and DIATOM- BEARING NANNOFOSSIL CHALK. Contacts are gradational. Beds range from gray (5Y 6/1) to light olive gray (5Y 6/2), light gray (5Y 7/2, 7/1), olive gray (5Y 5/2, 4/3, 4/2), and olive (5Y 5/3). Bioturbation is minor to moderate throughout.

SMEAR SLIDE SUMMARY (%):

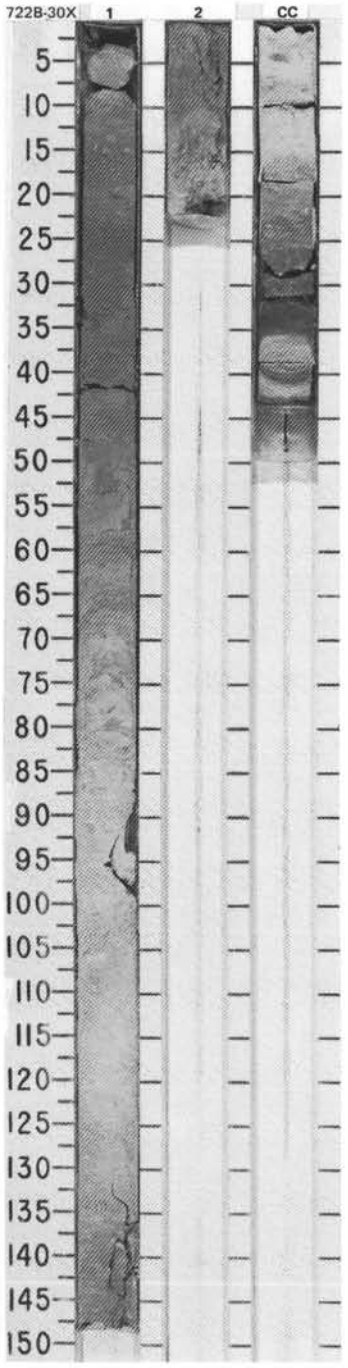
	1, 4 D
TEXTURE:	
Sand	40
Silt	30
Clay	30
COMPOSITION:	
Access. minerals	1
Cement	30
Clay	20
Feldspar	1
Hornblende	1
Mica	3
Opaques	4
Quartz	40



SITE 722 HOLE B CORE 30X CORED INTERVAL 2303.4-2313.1 mbsl; 275.6-285.3 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIOCENE	*R/M	*A/M	*C/G		O			1, 2, CC	0.5, 1.0					Interbedded NANNOFOSSIL CHALK and DIATOM-BEARING NANNOFOSSIL CHALK CC is highly fragmented. Remainder of the core is moderately fractured. Major lithology: Interbedded NANNOFOSSIL CHALK and DIATOM- BEARING NANNOFOSSIL CHALK. Contacts are gradational. Beds range from gray (5Y 6/1) to light gray (5Y 7/1) and olive gray (5Y 5/2). Bioturbation is minor throughout.

N15
NN10 *Discoaster calcaris*
Didymocyrtis antepenultima



SITE 722 HOLE B CORE 31X CORED INTERVAL 2313.1-2322.8 mbsl; 285.3-295.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
MIOCENE	*R/G	N15						1	0.5				*
	*A/G	NN10 *Discoaster calcaris*			•				1.0				
	*C/G		*C/G *Diartus pettersoni*		•	●ϕ=66.1 γ=1.63		2					
					•	●ϕ=60.5 γ=1.67							
					•	●ϕ=62.0 γ=1.73	●IC=5.71 OC=0.81	3					
								4					
													OG IW
								5					
								6					*
								CC					

LITHOLOGIC DESCRIPTION

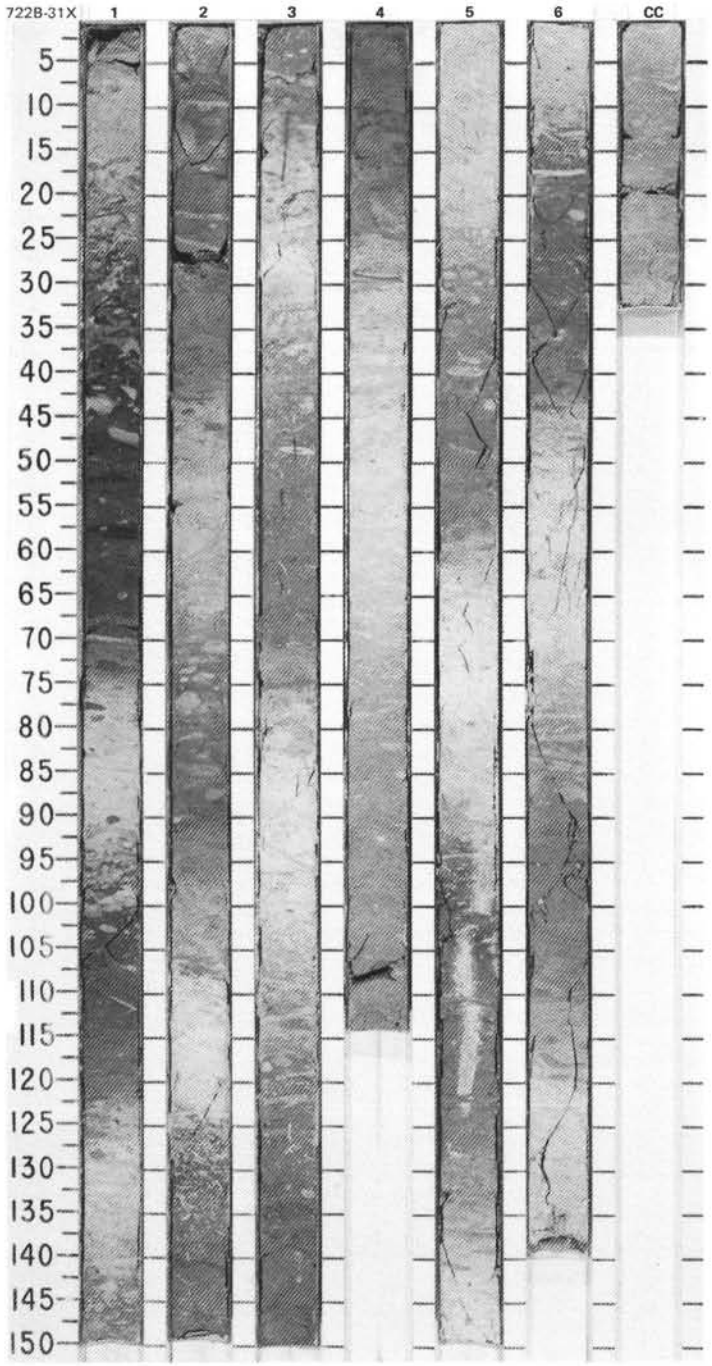
Interbedded NANNOFOSSIL CHALK and DIATOM-BEARING NANNOFOSSIL CHALK

Section 5, 20-85 cm, and Section 6, 25-140 cm, are slightly fractured. Section 1, Section 3, and CC are slightly disturbed. Remainder of the core is moderately disturbed.

Major lithology: Interbedded NANNOFOSSIL CHALK and DIATOM- BEARING NANNOFOSSIL CHALK. Contacts are gradational. Beds range from gray (5Y 6/1) to light olive gray (5Y 6/2), light gray (5Y 7/1), olive gray (5Y 5/2), and olive (5Y 5/3, 4/3). Bioturbation is minor to strong throughout and most evident across contacts.

SMEAR SLIDE SUMMARY (%):

	1, 63 D	6, 57 D
TEXTURE:		
Sand	10	
Silt	10	10
Clay	80	90
COMPOSITION:		
Clay	10	10
Diatoms	10	5
Foraminifers	Tr	
Inorganic calcite	5	Tr
Mica		Tr
Nannofossils	65	85
Quartz	5	Tr
Radiolarians	5	Tr
Silicoflagellates	Tr	Tr
Sponge spicules	Tr	Tr



SITE 722 HOLE B CORE 32X CORED INTERVAL 2322.8-2332.5 mbsl; 295.0-304.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
MIOCENE	*R/G	*A/G	*C/G		●	● ϕ=59.7 γ=1.67		1	0.5				
	N15	NN10 *Discoaster calcaris*	*C/G	*Diartus pettersoni*	O				1.0				
								2					*
					●	● ϕ=64.7 γ=1.61		3					
					●			4					
	*R/G	*A/G	*C/G					5 CC					*

LITHOLOGIC DESCRIPTION

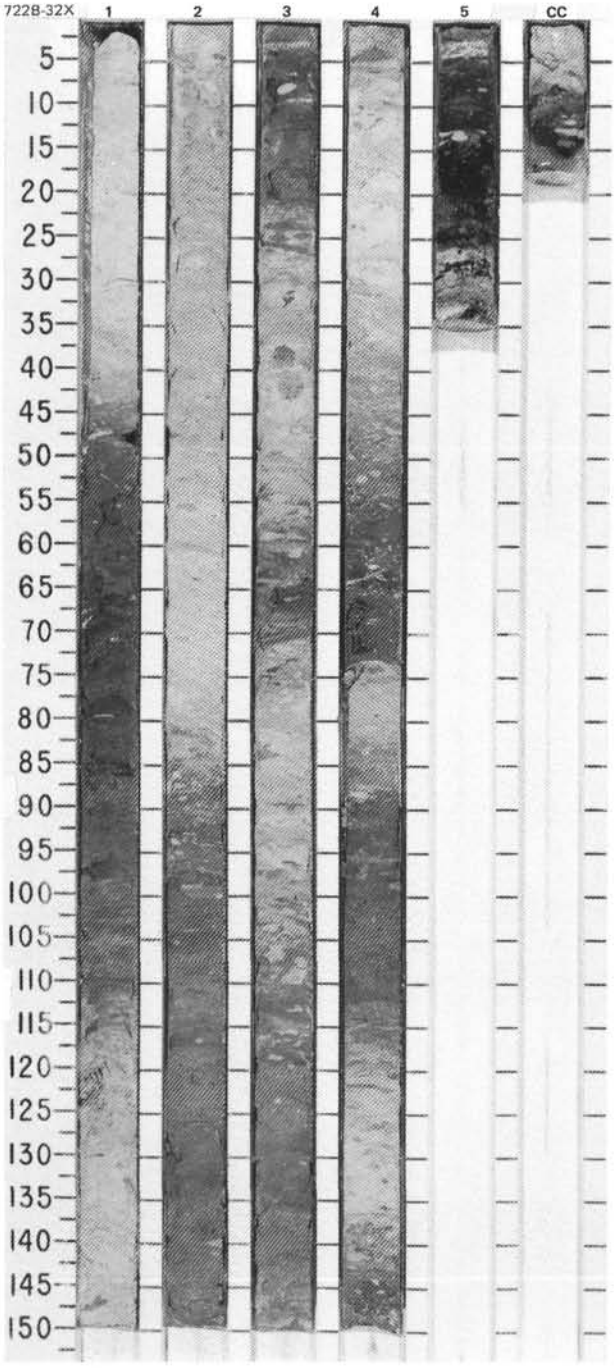
Interbedded NANNOFOSSIL CHALK and DIATOMACEOUS MARLY NANNOFOSSIL CHALK

Sections 1-2 are slightly disturbed. Sections 3-CC are moderately disturbed.

Major lithology: Interbedded NANNOFOSSIL CHALK and DIATOMACEOUS MARLY NANNOFOSSIL CHALK. Contacts are gradational except for sharp contact in Section 4, 73 cm. Beds range from light olive gray (5Y 6/2) to light gray (5Y 7/1, 7/2), olive (5Y 4/3, 4/2), pale olive (5Y 6/3), and dark olive gray (5Y 3/2). Bioturbation is minor to moderate throughout.

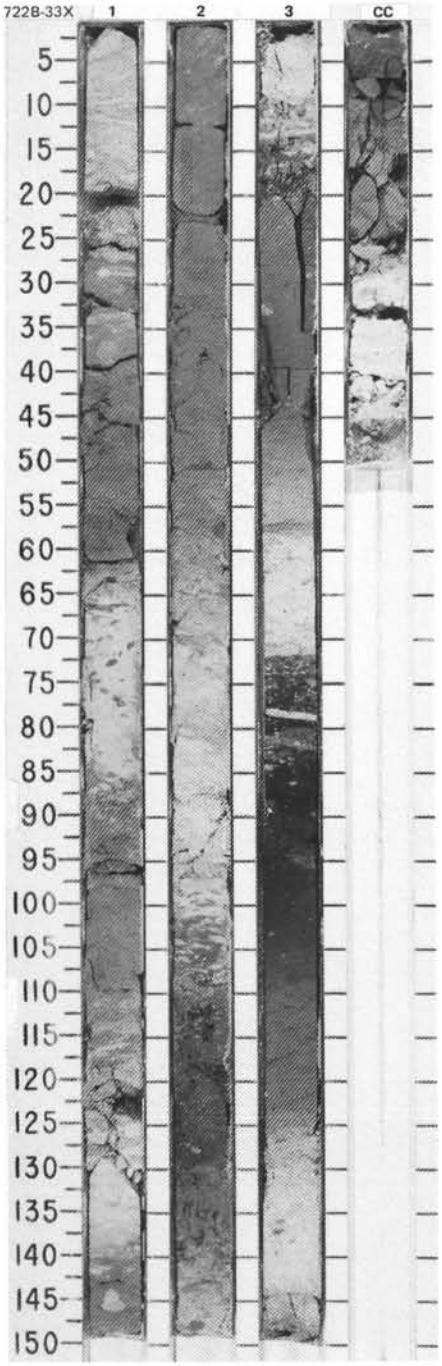
SMEAR SLIDE SUMMARY (%):

	2, 25 D	5, 16 M
TEXTURE:		
Sand		10
Silt	10	10
Clay	90	80
COMPOSITION:		
Clay	10	30
Diatoms	10	15
Inorganic calcite	Tr	
Mica		Tr
Nannofossils	80	45
Quartz		5
Radiolarians	Tr	5
Silicoflagellates	Tr	Tr
Sponge spicules		Tr



SITE 722 HOLE B CORE 33X CORED INTERVAL 2332.5-2342.1 mbsl; 304.7-314.3 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIOCENE	*R/G N15	NN9 *Discoaster hamatus* *A/M	*Diartus pettersoni* *C/G		●ϕ=74.3 γ=1.46			1 2 3 CC	0.5 1.0					Interbedded NANNOFOSSIL CHALK and DIATOMACEOUS MARLY NANNOFOSSIL CHALK Entire core is moderately disturbed to highly fractured. Major lithology: Interbedded NANNOFOSSIL CHALK and DIATOMACEOUS MARLY NANNOFOSSIL CHALK. Contacts are gradational. Beds range from light olive gray (5Y 6/2) to light gray (5Y 7/1), olive (5Y 5/3, 4/3), and dark olive gray (5Y 3/2). Bioturbation is minor to strong throughout. Diatomaceous marly nannofossil chalk occurs as darker beds.



SITE 722 HOLE B CORE 34X CORED INTERVAL 2342.1-2351.8 mbsl; 314.3-324.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
MIOCENE	*R/G N15	NN9 *Discoaster hamatus*	*Diartus pettersoni*			● ϕ-78.5 γ-1.42 ● ϕ-70.5 γ-1.44	IC=3.77 OC=1.31	1 2 3 4 CC	0.5 1.0				OG IW

LITHOLOGIC DESCRIPTION

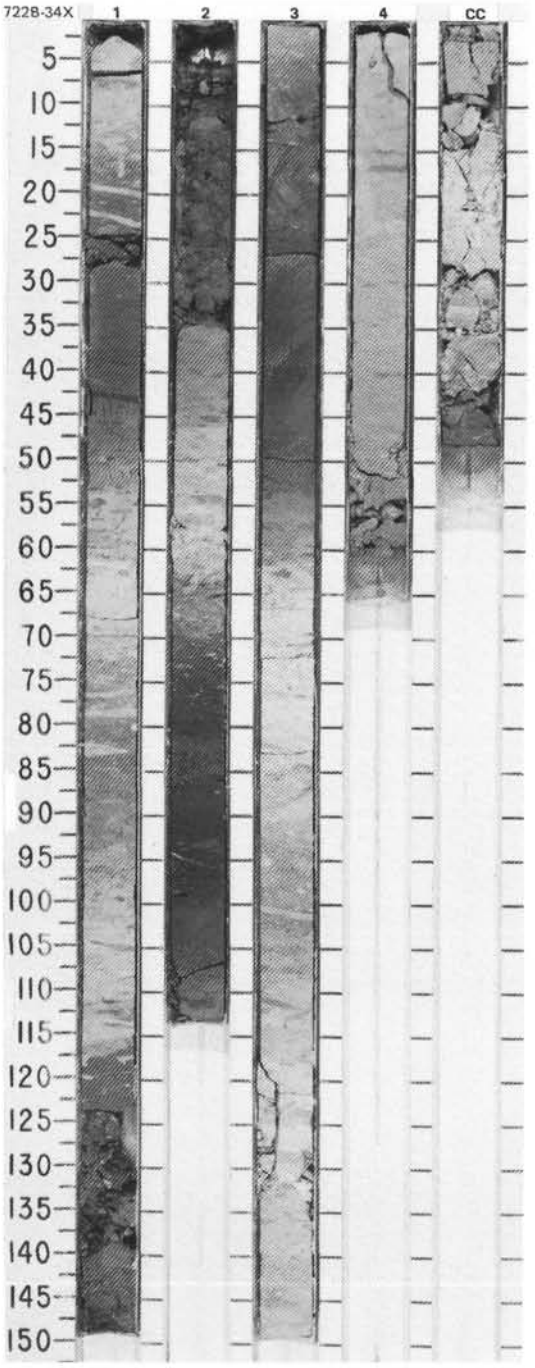
Interbedded NANNOFOSSIL CHALK and DIATOMACEOUS MARLY NANNOFOSSIL CHALK

Entire core is slightly disturbed to brecciated.

Major lithology: Interbedded NANNOFOSSIL CHALK and DIATOMACEOUS MARLY NANNOFOSSIL CHALK. Contacts are gradational except for sharp contact in Section 2, 35 cm. Beds range from light olive gray (5Y 6/2) to light gray (5Y 7/1), olive gray (5Y 5/2), and olive (5Y 4/3, 5/3). Bioturbation is minor to strong throughout. Subvertical, en echelon dewatering (?) structures are present in darker, diatomaceous beds.

SMEAR SLIDE SUMMARY (%):

	2, 57 D	2, 90 D	4, 52 D
TEXTURE:			
Sand		5	
Silt	14	20	10
Clay	86	75	90
COMPOSITION:			
Access. minerals	Tr	2	Tr
Clay	6	40	5
Diatoms	12	15	7
Feldspar		1	
Foraminifers			Tr
Volcanic glass		Tr	
Inorganic calcite	1	2	2
Mica	Tr	1	Tr
Nannofossils	80	35	85
Quartz	Tr	3	1
Radiolarians	1	1	
Silicoflagellates	Tr		
Sponge spicules			Tr



SITE 722 HOLE B CORE 35X CORED INTERVAL 2351.8-2361.5 mbsl; 324.0-337.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
MIOCENE	* R/G	NN8 *Catinaster coalitus*	*C/G Diartus pettersoni*			● ϕ=63.2 γ=1.86 ● ϕ=69.1 γ=1.57 ● ϕ=61.0 γ=1.69		1 2 3 4 5 6 7 CC	0.5 1.0 VOID 303.3			* *	

LITHOLOGIC DESCRIPTION

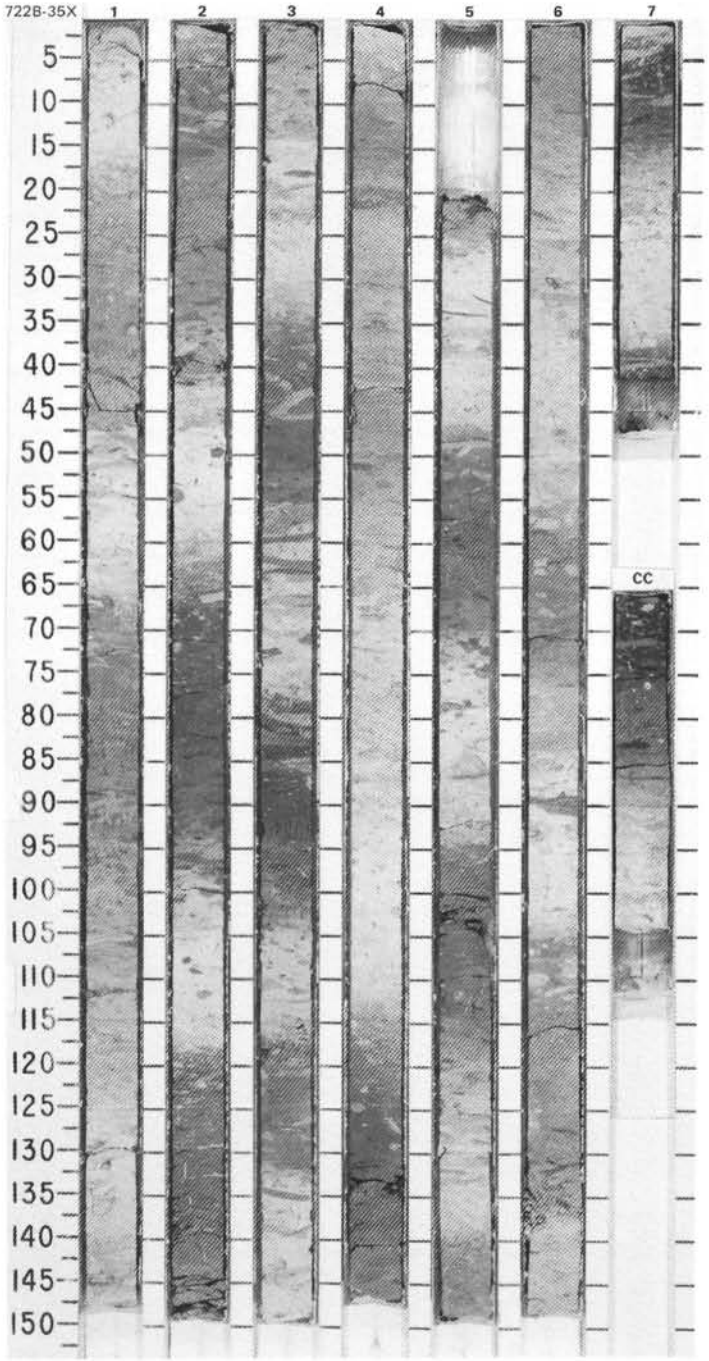
Interbedded NANNOFOSSIL CHALK and DIATOMACEOUS MARLY NANNOFOSSIL CHALK

Entire core is slightly fractured.

Major lithology: Interbedded NANNOFOSSIL CHALK and DIATOMACEOUS MARLY NANNOFOSSIL CHALK. Contacts are gradational except for sharp contacts in Section 6, 137 cm, and CC, 24 cm. Beds range from white (5Y 8/1) to gray (5Y 6/1), light olive gray (5Y 6/2), light gray (5Y 7/2, 7/1), light greenish gray (5GY 7/1, 10Y 6/2), olive (5Y 5/4, 5/3, 4/3), pale olive (5Y 6/3), and dark greenish gray (5GY 6/1). Bioturbation is minor to strong throughout. Subvertical, en echelon dewatering (?) structures are present in light and dark beds, but are larger and more prevalent in darker beds. Concentric purple alteration rings around burrows occur within the lighter beds.

SMEAR SLIDE SUMMARY (%):

	2, 80 D	4, 98 D
TEXTURE:		
Sand	10	
Silt	20	3
Clay	70	97
COMPOSITION:		
Access. minerals	2	
Clay	35	7
Diatoms	20	1
Feldspar	Tr	
Foraminifers		1
Inorganic calcite	3	1
Mica		Tr
Nannofossils	35	90
Quartz	5	
Radiolarians		Tr
Silicoflagellates	Tr	
Sponge spicules	Tr	



SITE 722 HOLE B CORE 36X CORED INTERVAL 2361.5-2371.2 mbsl; 333.7-343.4 mbsf

TIME-ROCK UNIT: MIOCENE

BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS: * R/B; N14 | NANNOFOSSILS: * A/G-M; NN8 *Catinaster coalitus* | RADIOLARIANS: * C/M * C/M | DIATOMS: *Diartus pettersoni*

PALEOMAGNETICS | PHYS. PROPERTIES: ●ϕ=62.9 γ=1.72; ●ϕ=63.7 γ=1.64 | CHEMISTRY

SECTION: 1, 2, 3, 4, CC | METERS: 0.5, 1.0

GRAPHIC LITHOLOGY | DRILLING DISTURB. | SED. STRUCTURES | SAMPLES: *, *

LITHOLOGIC DESCRIPTION

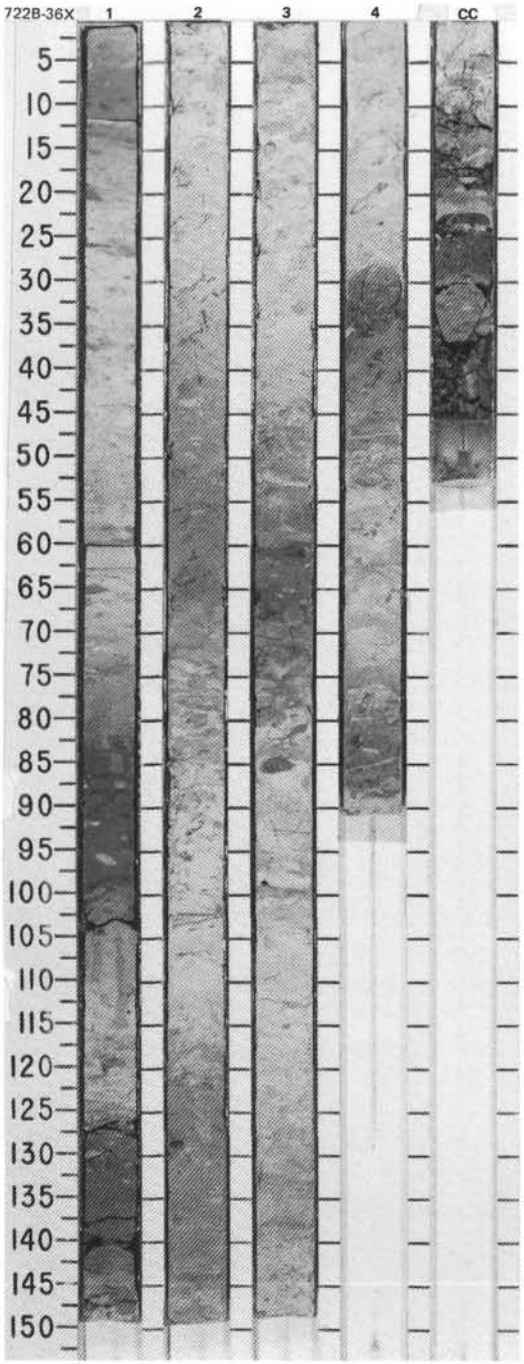
Interbedded NANNOFOSSIL CHALK and DIATOMACEOUS MARLY NANNOFOSSIL CHALK

Section 1 is slightly fractured. Section 2 to Section 4, 90 cm, is moderately fractured. CC is highly fragmented.

Major lithology: Interbedded NANNOFOSSIL CHALK and DIATOMACEOUS MARLY NANNOFOSSIL CHALK. Contacts are gradational except for sharp contact at Section 4, 28 cm. Beds range from light gray (5Y 7/2, 7/1) to light greenish gray (10Y 7/1, 6/2), olive (5Y 5/4, 4/3), pale olive (5Y 6/3), and dark greenish gray (5GY 7/1, 6/1). Bioturbation is minor to moderate throughout the core. Concentric purple calcite alteration rings around burrows occur within the lighter beds.

SMEAR SLIDE SUMMARY (%):

	1, 93 D	4, 22 D
TEXTURE:		
Sand	5	5
Silt	20	5
Clay	75	90
COMPOSITION:		
Access. minerals	1	Tr
Clay	35	5
Diatoms	15	1
Dolomite	Tr	
Feldspar	1	
Foraminifers		1
Volcanic glass	Tr	
Inorganic calcite	1	3
Mica	1	
Nannofossils	40	85
Quartz	5	
Radiolarians	Tr	4
Silicoflagellates	Tr	
Sponge spicules	1	1



SITE 722 HOLE B CORE 37X CORED INTERVAL 2371.2-2380.9 mbsl; 343.4-353.1 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
MIOCENE	*R/G	N12 - N13	NN7 *Discoaster kugleri*	F/M* *Diartus pettersoni*		●ϕ=58.2 γ=1.79 ●ϕ=55.6 γ=1.76 ●ϕ=55.9 γ=1.80		1 2 3 4 5 6 7 CC	0.5 1.0	VOID		* OG IW *	

LITHOLOGIC DESCRIPTION

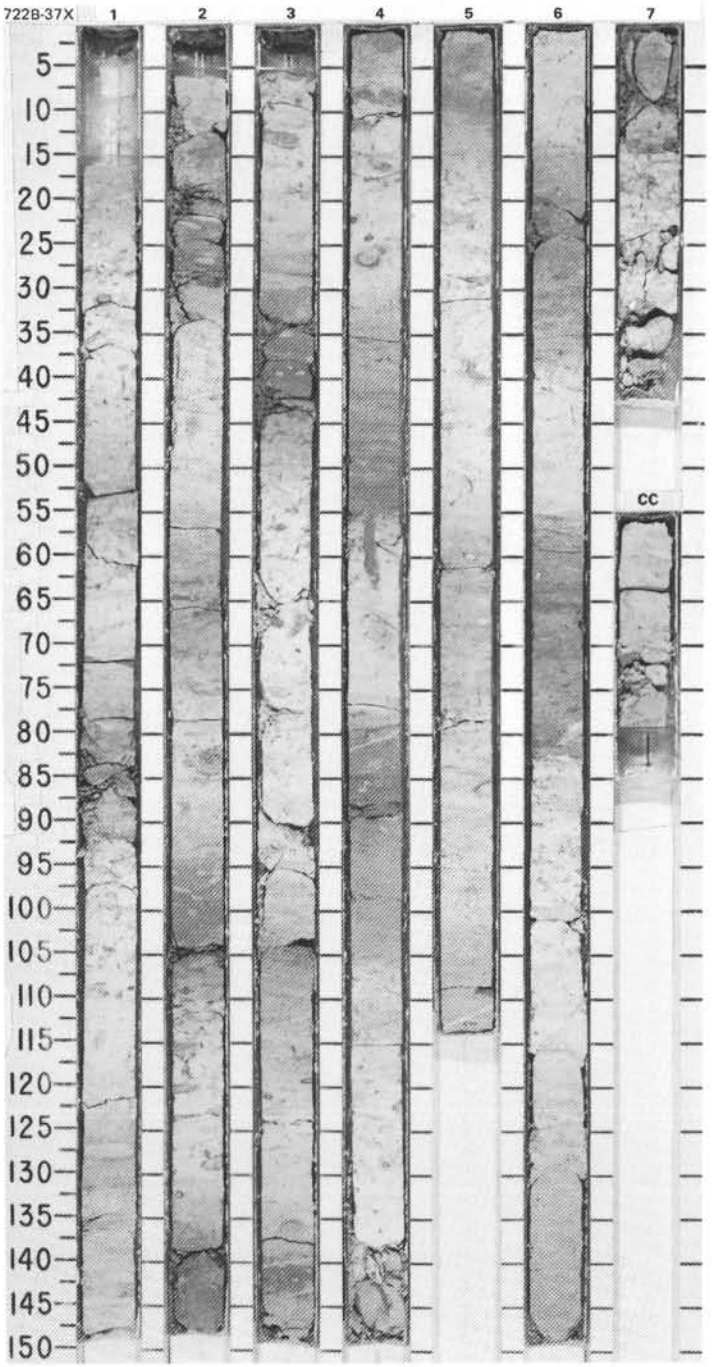
NANNOFOSSIL CHALK

Section 1, 0 cm, to Section 2, 20 cm, and Section 3, 10 cm, to Section 7, 30 cm, are slightly fractured. Section 2, 20 cm, to Section 3, 0 cm, is moderately fractured. CC is highly fragmented.

Major lithology: NANNOFOSSIL CHALK. Beds range from white (5Y 8/1) to gray (5Y 6/1), light olive gray (5Y 6/2), light gray (5Y 7/1), light greenish gray (5G 7/1, 5GY 7/1, 10Y 6/2), greenish gray (5GY 6/1), olive (5Y 5/3), and dark greenish gray (10Y 5/2). Contacts are gradational except for Section 2, 93 cm, and Section 6, 84 cm. Bioturbation is minor to moderate throughout. Lighter beds contain burrows encircled by concentric purple alteration rings.

SMEAR SLIDE SUMMARY (%):

	3, 85 D	6, 71 D
TEXTURE:		
Silt	5	10
Clay	95	90
COMPOSITION:		
Access. minerals	Tr	1
Clay	5	20
Diatoms	1	1
Dolomite		1
Feldspar		1
Foraminifers	1	Tr
Inorganic calcite	2	
Mica		1
Nannofossils	90	70
Quartz		5
Radiolarians	1	
Silicoflagellates		Tr



SITE 722 HOLE B CORE 38X CORED INTERVAL 2380.9-2390.6 mbsl; 353.1-362.8 mbsf

TIME-ROCK UNIT: MIOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER:
- FORAMINIFERS: *R/G
- NANNOFOSSILS: N12 - N13; *A/G
- RADIOLARIANS: NN7 *Discoaster kugleri*; *C/G
- DIATOMS: F/G* *Diartus pettersoni*

PALEOMAGNETICS

PHYS. PROPERTIES: ● ϕ=56.8 γ=1.80; ● ϕ=56.0 γ=1.78; ● ϕ=60.5 γ=1.74

CHEMISTRY

SECTION: 1, 2, 3, 4, 5, 6, 7

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: *

LITHOLOGIC DESCRIPTION

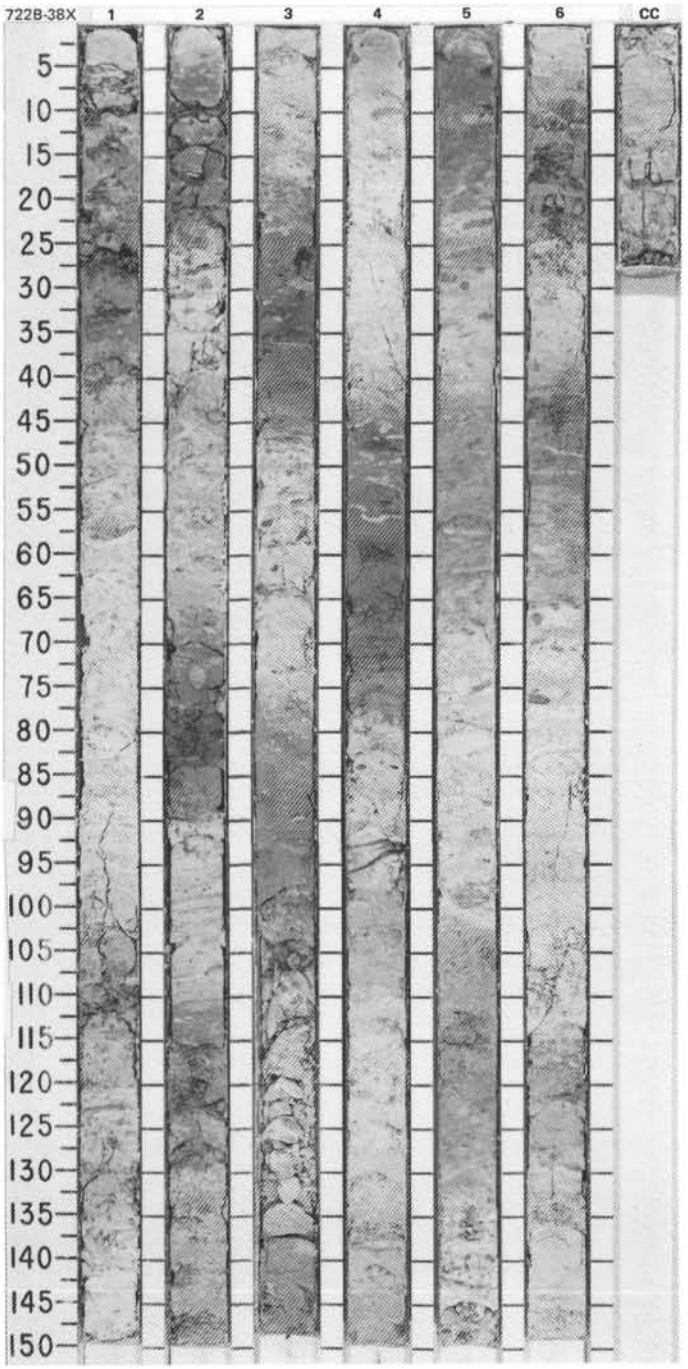
Interbedded NANNOFOSSIL CHALK and MARLY NANNOFOSSIL CHALK

Entire core is slightly fractured to highly fragmented.

Major lithology: Interbedded NANNOFOSSIL CHALK and MARLY NANNOFOSSIL CHALK. Contacts are gradational. Beds range from white (5Y 8/1) to light gray (5Y 7/1), light greenish gray (5GY 7/1, 10Y 7/1), greenish gray (5G 5/1, 5G 6/1, 5GY 6/1), and dark greenish gray (10Y 4/2, 5/2). Bioturbation is moderate throughout. Lighter beds contain burrows encircled by concentric purple alteration rings.

SMEAR SLIDE SUMMARY (%):

	1, 72 D	4, 72 D
TEXTURE:		
Sand		5
Silt	5	10
Clay	95	85
COMPOSITION:		
Access. minerals	Tr	2
Clay	5	30
Diatoms	Tr	
Dolomite		Tr
Feldspar		2
Foraminifers	Tr	2
Volcanic glass	Tr	Tr
Inorganic calcite	5	5
Nannofossils	90	55
Quartz		4
Radiolarians	Tr	Tr
Sponge spicules	Tr	Tr



SITE 722 HOLE B CORE 39X CORED INTERVAL 2390.6-2400.3 mbsl; 362.372.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
MIOCENE	C/M* N12 - N13	A/P* NN7 *Discoaster kugleri*	F/P* *Diartus petterssoni*			●ϕ=53.6 γ=1.82 ϕ=54.2 γ=1.86●		1, 2, CC	0.5, 1.0				*

LITHOLOGIC DESCRIPTION

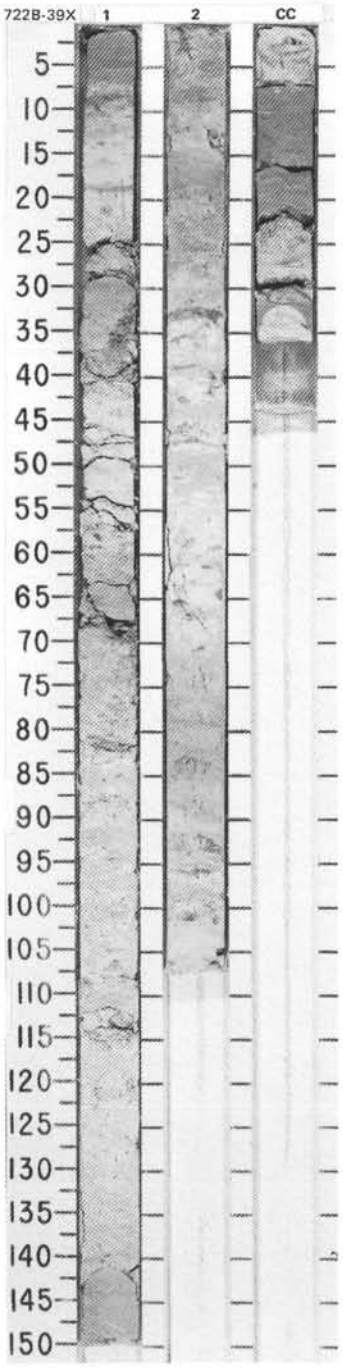
Interbedded NANNOFOSSIL CHALK and MARLY NANNOFOSSIL CHALK

Entire core is moderately fractured.

Major lithology: Interbedded NANNOFOSSIL CHALK and MARLY NANNOFOSSIL CHALK. Contacts are gradational. Beds range from white (5Y 8/1) to light gray (N7), light greenish gray (5BG 7/1, 5G 7/1, 5GY 7/1), and greenish gray (5GY 6/1). Bioturbation is minor to moderate throughout. Lighter beds contain burrows encircled by concentric purple alteration rings.

SMEAR SLIDE SUMMARY (%):

	1, 85 D	2, 32 D
TEXTURE:		
Sand		5
Silt	5	10
Clay	95	85
COMPOSITION:		
Access. minerals	Tr	2
Clay	5	25
Dolomite	Tr	Tr
Feldspar		Tr
Foraminifers	Tr	Tr
Volcanic glass	Tr	Tr
Inorganic calcite	5	8
Mica		Tr
Nannofossils	90	60
Quartz		5
Radiolarians	Tr	Tr
Sponge spicules	Tr	Tr



SITE 722 HOLE B CORE 40X CORED INTERVAL 2400.3-2410.0 mbsl; 372.5-382.2 mbsf

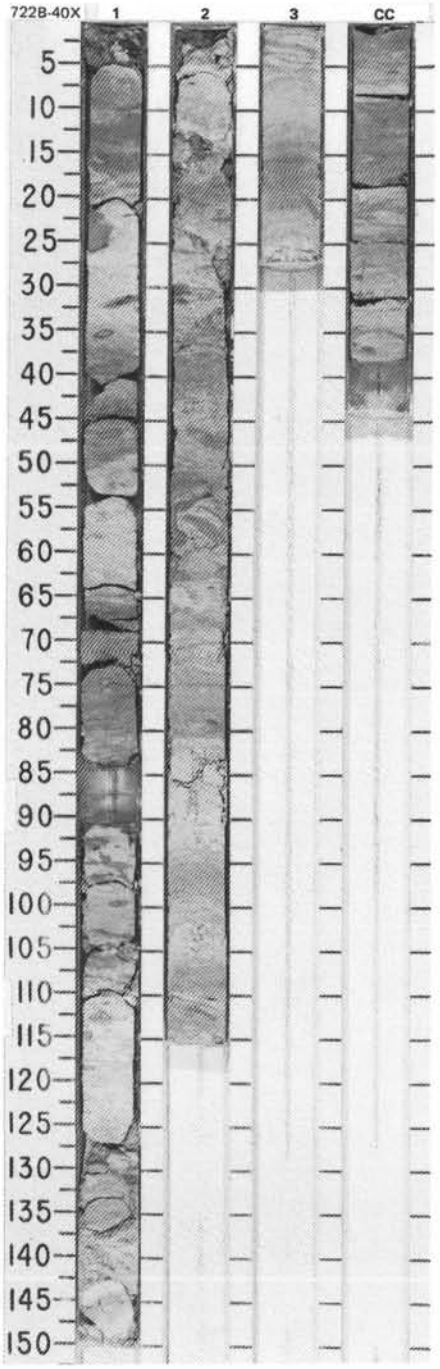
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIOCENE	*R/M *A/P	*A/M-P NN7 NN6	Barren			●ϕ-49.6 γ-1.91		1 2 3 CC	0.5 1.0	VOID			** OG IW	Interbedded NANNOFOSSIL CHALK and FORAMINIFER-BEARING NANNOFOSSIL CHALK

Entire core is slightly fractured to highly fragmented.

Major lithology: Interbedded NANNOFOSSIL CHALK and FORAMINIFER-BEARING NANNOFOSSIL CHALK. Contacts are gradational except for sharp contact at Section 2, 70 cm. Beds range from white (5Y 8/1) to gray (5Y 5/1), light gray (N7, 5Y 7/1), light greenish gray (5GY 7/1), greenish gray (5G 5/1, 6/1; 5GY 6/1), and olive gray (5Y 5/2). Bioturbation is moderate to strong throughout. Lighter beds contain concentric purple alteration rings around burrows.

SMEAR SLIDE SUMMARY (%):

	1, 27 D	1, 30 M
TEXTURE:		
Sand	1	10
Silt	4	5
Clay	95	85
COMPOSITION:		
Access. minerals	Tr	Tr
Clay	10	10
Dolomite	Tr	
Foraminifers	2	10
Inorganic calcite	3	5
Nannofossils	85	75



SITE 722 HOLE B CORE 41X CORED INTERVAL 2410.0-2419.6 mbsl; 382.2-391.8 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
MIOCENE N10 NN4 *Helicosphaera ampliaperta* – NN5 *Sphenolithus heteromorphus* Barren	*C/P	*A/M *A/P	*			● ϕ=44.6 ρ=2.02		1 2 CC	0.5 1.0				*

LITHOLOGIC DESCRIPTION

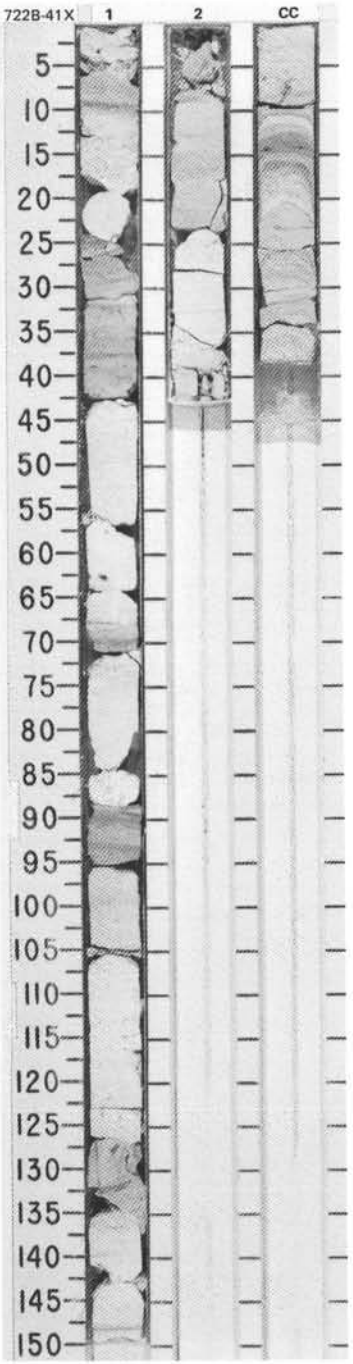
Interbedded NANNOFOSSIL CHALK and FORAMINIFER-BEARING NANNOFOSSIL CHALK

Core liner shattered; stratigraphy may be disturbed. Entire core is slightly to moderately fractured.

Major lithology: Interbedded NANNOFOSSIL CHALK and FORAMINIFER-BEARING NANNOFOSSIL CHALK. Contacts are gradational. Beds range from white (2.5Y 8/1) to light gray (N7), light greenish gray (5GY 7/1, 5G 7/1), and greenish gray (5GY 6/1). Bioturbation is minor throughout. Lighter beds contain burrows encircled by concentric purple alteration rings.

SMEAR SLIDE SUMMARY (%):

	1, 48 D
TEXTURE:	
Silt	5
Clay	95
COMPOSITION:	
Clay	5
Dolomite	Tr
Inorganic calcite	5
Nannofossils	90



SITE 722 HOLE B CORE 42X CORED INTERVAL 2419.6-2429.2 mbsl; 391.8-401.4 mbsf

TIME-ROCK UNIT: MIOCENE

BIOSTRAT. ZONE/ FOSSIL CHARACTER:
- FORAMINIFERS: N9
- NANNOFOSSILS: A/P * NN4 *Helicosphaera ampliaperta*-NN5 *Sphenolithus heteromorphus*
- RADIOLARIANS: *
- DIATOMS: Barren

PALEOMAGNETICS

PHYS. PROPERTIES: ●Φ=48.3 γ=1.92 ●Φ=44.6 γ=1.97 ●

CHEMISTRY

SECTION: 1, 2, 3, 4, CC

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES

LITHOLOGIC DESCRIPTION

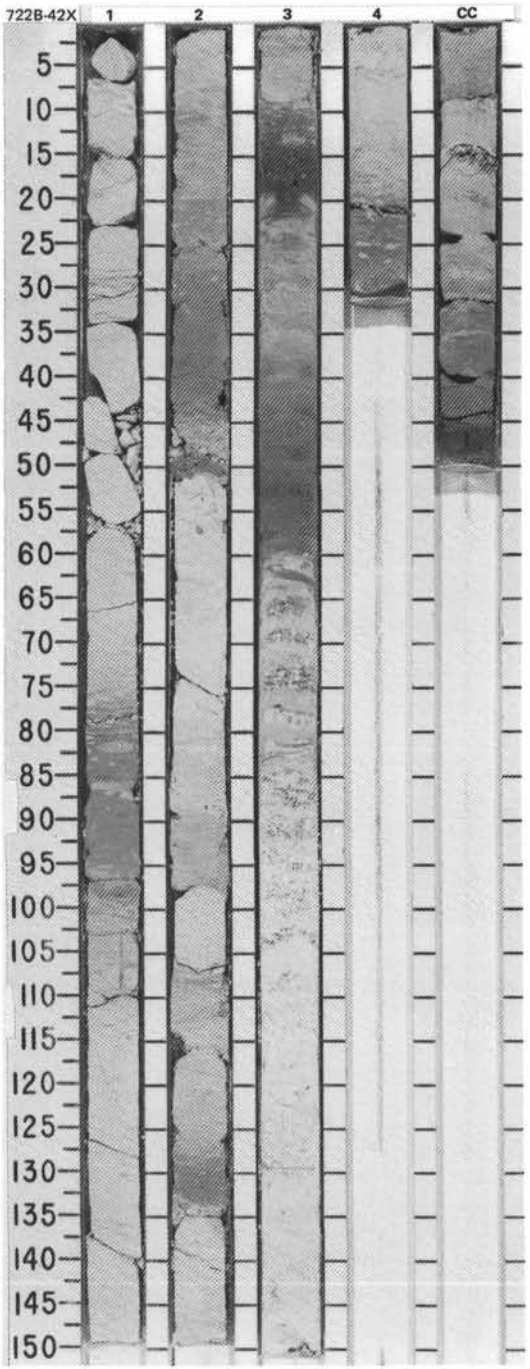
Interbedded NANNOFOSSIL CHALK and MARLY NANNOFOSSIL CHALK

Entire core is slightly fractured to highly fragmented.

Major lithology: Interbedded NANNOFOSSIL CHALK and MARLY NANNOFOSSIL CHALK. Contacts are gradational. Beds range from white (N8) to gray (5Y 5/1, 6/1) and light gray (5Y 7/1). Bioturbation is minor to moderate throughout. Diagenetic fronts (stylolites?) occur within the lighter beds.

SMEAR SLIDE SUMMARY (%):

	2, 131 D	3, 17 D	3, 45 D
TEXTURE:			
Silt	20	15	10
Clay	80	85	90
COMPOSITION:			
Access. minerals		5	Tr
Clay	10	35	10
Dolomite	Tr	Tr	1
Inorganic calcite	10	5	8
Nannofossils	80	50	80
Quartz	Tr	5	1



SITE 722 HOLE B CORE 43X CORED INTERVAL 2429.2-2438.9 mbsl; 401.4-411.1 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
MIOCENE	*					● ϕ=44.8 γ=1.85 ϕ=44.3 γ=1.98 ●	● IC=6.83 OC=0.18	1	0.5				*
									1.0				
								2					OG IW
								3					
								CC					
Barren													
	*	C/M											
NN4 *Helicosphaera ampliaperta* -NN5 *Sphenolithus heteromorphus*													
			*										
Barren													

LITHOLOGIC DESCRIPTION

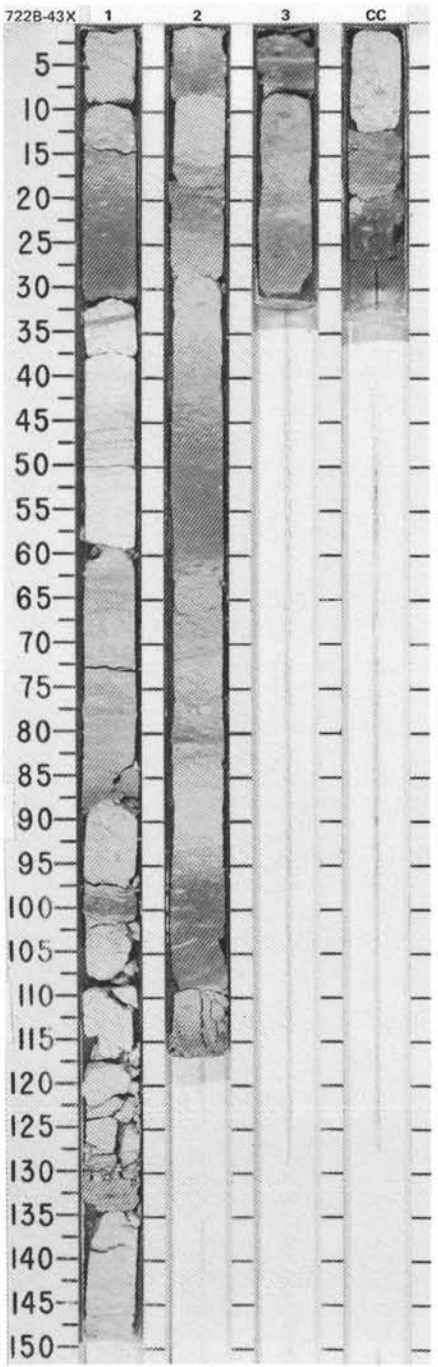
Interbedded NANNOFOSSIL CHALK and FORAMINIFER-BEARING NANNOFOSSIL CHALK

Entire core is slightly fractured to highly fragmented.

Major lithology: Interbedded NANNOFOSSIL CHALK and FORAMINIFER-BEARING NANNOFOSSIL CHALK. Contacts are gradational. Beds range from white (5Y 8/0, 2.5Y 8/9, 5Y 8/1) to light gray (2.5Y 7/2, 5Y 7/1), light brownish gray (2.5Y 6/2), gray (5Y 6/1), light olive gray (5Y 6/2), olive gray (5Y 5/2, 4/3), and light greenish gray (10Y 7/1, 6/1). Bioturbation is minor to strong throughout.

SMEAR SLIDE SUMMARY (%):

	1, 25 D	1, 55 D
TEXTURE:		
Silt	20	20
Clay	80	80
COMPOSITION:		
Access. minerals	Tr	Tr
Clay		10
Dolomite	5	
Foraminifers	5	10
Inorganic calcite	10	Tr
Nannofossils	80	80
Quartz	Tr	Tr



SITE 722 HOLE B CORE 44X CORED INTERVAL 2438.9-2448.6 mbsl; 411.1-420.8 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
MIOCENE	Barren	NN4 *Helicosphaera ampliaperta* -NN5 *Sphenolithus heteromorphus*	Barren			● ϕ-38.2 γ-1.86 ● ϕ-39.8 γ-2.14		1 2 3 4 5 CC	0.5 1.0				

LITHOLOGIC DESCRIPTION

Interbedded NANNOFOSSIL CHALK and MARLY NANNOFOSSIL CHALK

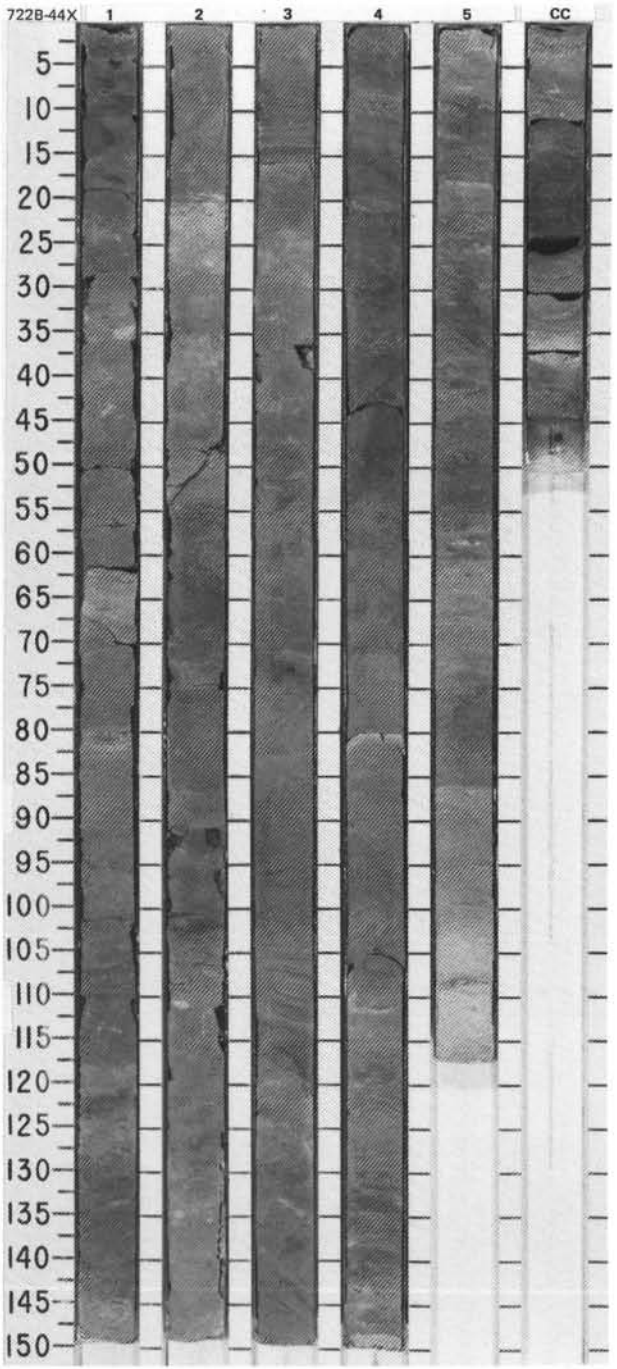
Entire core is slightly disturbed.

Major lithology: Interbedded NANNOFOSSIL CHALK and MARLY NANNOFOSSIL CHALK. Contacts are gradational. Beds range from gray (5Y 6/1) to olive gray (5Y 5/2, 4/3, 4/2), pale brown (10YR 6/3), brown (10YR 5/3), and yellowish brown (10YR 5/4). Bioturbation is minor throughout.

Minor lithology: Silty claystone, greenish gray (5G 5/1, 6/1), with parallel laminae. Basal contact usually sharp, upper contact gradational with major lithology.

SMEAR SLIDE SUMMARY (%):

	1, 120 M	2, 120 D	3, 95 D	5, 111 D
TEXTURE:				
Silt	40	20	30	20
Clay	60	80	70	80
COMPOSITION:				
Access. minerals	1		3	Tr
Clay	60	15	60	10
Dolomite	2	Tr	Tr	
Volcanic glass	2		Tr	
Inorganic calcite	10	10	7	5
Nannofossils	Tr	70	20	85
Quartz	25	5	10	Tr



SITE 722 HOLE B CORE 45X CORED INTERVAL 2448.6-2458.3 mbsl; 420.8-430.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
MIOCENE	*	* A/P	*			● ϕ-47.1 γ-1.99 ● ϕ-45.3 γ-2.00 ● ϕ-46.9 γ-1.98		1 2 3 4 5 6 7 CC	0.5 1.0				*

Barren — NN4 *Helicosphaera ampliaperta* -NN5 *Sphenolithus heteromorphus* — Barren

LITHOLOGIC DESCRIPTION

Interbedded NANNOFOSSIL CHALK and MARLY NANNOFOSSIL CHALK

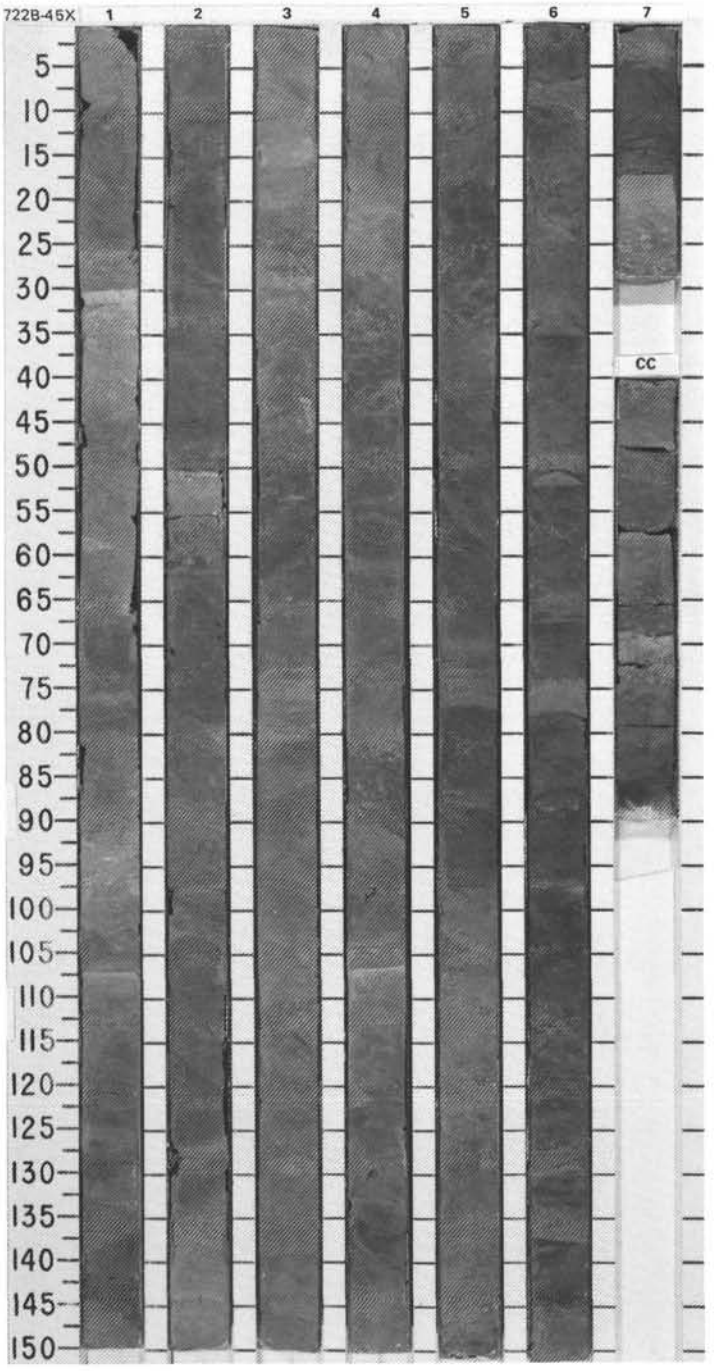
Entire core is slightly to very disturbed.

Major lithology: Interbedded NANNOFOSSIL CHALK and MARLY NANNOFOSSIL CHALK. Contacts are gradational. Beds range from olive gray (5Y 5/2) to olive (5Y 4/2), greenish gray (5Y 5/1), light brownish gray (10YR 6/2), pale brown (10YR 6/3), and brown (10YR 5/3). Bioturbation is minor to strong throughout.

Minor lithology: Silty claystone, greenish gray (5G 5/1, 6/1). Parallel laminae present. Basal contacts sharp, upper contacts gradational with major lithology.

SMEAR SLIDE SUMMARY (%):

	1, 140 M	2, 82 D	6, 103 M	7, 16 M
TEXTURE:				
Sand				20
Silt	35	30	30	70
Clay	65	70	70	10
COMPOSITION:				
Access. minerals	Tr	5	10	10
Clay	60	20	65	5
Dolomite	Tr		Tr	5
Feldspar				10
Foraminifers				Tr
Inorganic calcite	20	10	10	10
Nannofossils	5	50	5	
Quartz	15	15	10	60



SITE 722 HOLE B CORE 46X CORED INTERVAL 2458.3-2468.0 mbsl; 430.5-440.2 mbsf

TIME-ROCK UNIT: MIOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS: Barren; NANNOFOSSILS: NN4 *Helicosphaera ampliaperta*-NN5 *Sphenolithus heteromorphus*; RADIOLARIANS: Barren; DIATOMS

PALEOMAGNETICS

PHYS. PROPERTIES: ● ϕ-57.1 γ-2.00; ● ϕ-46.8 γ-1.97; ● ϕ-42.8 γ-1.97

CHEMISTRY: IC-0.78; OC-0.11

SECTION: 1, 2, 3, 4, 5, 6, 7, CC

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: OG, IW, PP

LITHOLOGIC DESCRIPTION

CLAYEY SILTSTONE and MARLY NANNOFOSSIL CHALK

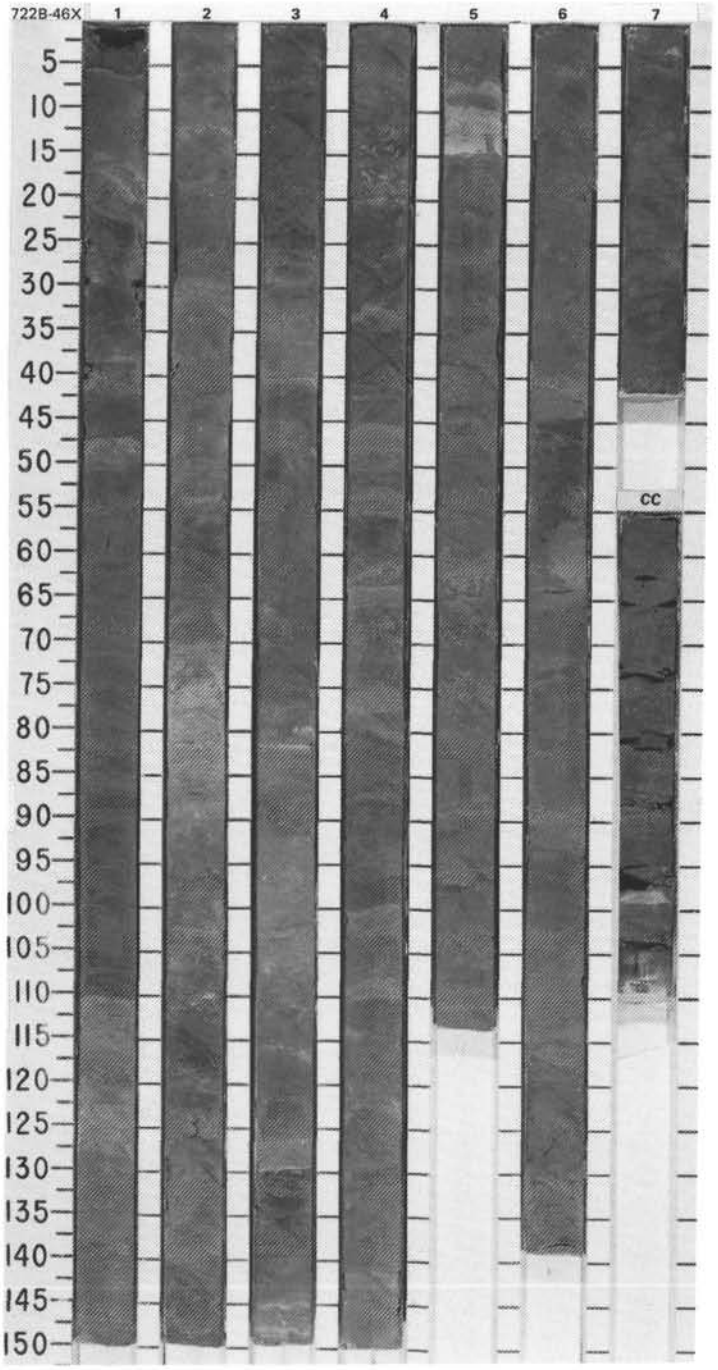
Section 1 is highly fragmented; remainder of the core is moderately disturbed.

Major lithologies:
a. CLAYEY SILTSTONE, olive (5Y 4/3), gradationally interbedded with nannofossil chalk and minor siltstone.
b. MARLY NANNOFOSSIL CHALK. Gradationally interbedded with and usually overlying clayey siltstone. Beds range from dark brown (10YR 4/3) to dark grayish brown (10YR 4/2) and light brownish gray (10YR 6/2). Contacts are gradational. Bioturbation is moderate throughout.

Minor lithology: Siltstone, greenish gray (5G 5/1, 6/1). Contains parallel laminae. Gradationally interbedded with and usually underlying siltstone. Basal contact with underlying nannofossil chalk is usually sharp.

SMEAR SLIDE SUMMARY (%):

	1, 109 M	3, 89 D	5, 35 D
TEXTURE:			
Silt	85	40	15
Clay	15	60	85
COMPOSITION:			
Access. minerals	15	2	5
Clay	15	10	80
Feldspar	5		
Inorganic calcite	35	10	10
Mica	5		
Nannofossils	Tr	75	Tr
Quartz	25	3	5



CORE 117–722B–47X NO RECOVERY

SITE 722 HOLE B CORE 48X CORED INTERVAL 2477.6-2487.2 mbsl; 449.8-459.4 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	BIOSTRAT. ZONE/ FOSSIL CHARACTER: NANNOFOSSILS	BIOSTRAT. ZONE/ FOSSIL CHARACTER: RADIOLARIANS	BIOSTRAT. ZONE/ FOSSIL CHARACTER: DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
MIOCENE	Barren	NN4 *Helicosphaera ampliaperta*–NN5 *Sphenolithus heteromorphus*	Barren			Φ-47.7 γ-2.01		1 CC	0.5			Ø	*

LITHOLOGIC DESCRIPTION

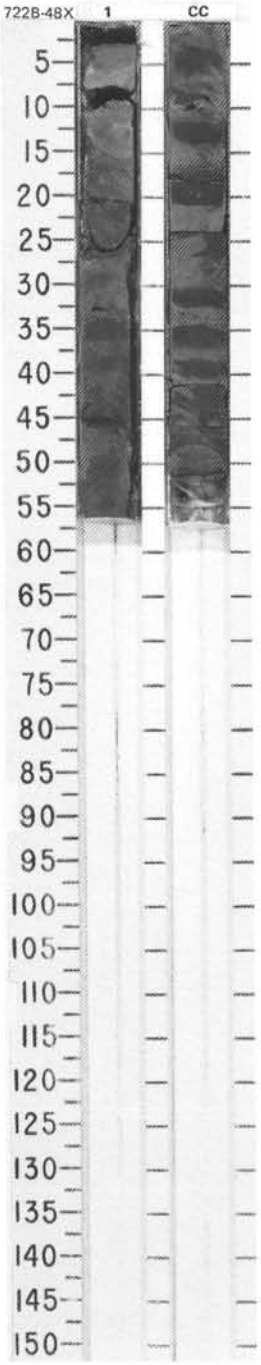
SILTY CLAYSTONE

Moderately fractured to very fragmented throughout.

Major lithology: SILTY CLAYSTONE, dark grayish brown (10YR 4/2). Layer of plant debris (1 cm thick) at Section 1, 45 cm.

SMEAR SLIDE SUMMARY (%):

	1, 45 M	2, 19 D
TEXTURE:		
Sand	20	
Silt	50	5
Clay	30	95
COMPOSITION:		
Clay	15	80
Feldspar	5	
Inorganic calcite	30	10
Mica	15	Tr
Plant debris	10	
Quartz	25	10
Rock fragments		Tr



SITE 722 HOLE B CORE 49X CORED INTERVAL 2487.2-2496.8 mbsl: 459.8-469.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
?	*	*	*			ϕ=48.7 γ=1.96 ● ● ϕ=46.4 γ=2.00	IC=1.49 OC=0.27	1 2 3 4 CC	0.5 1.0				OG IW

LITHOLOGIC DESCRIPTION

SILTY CLAYSTONE

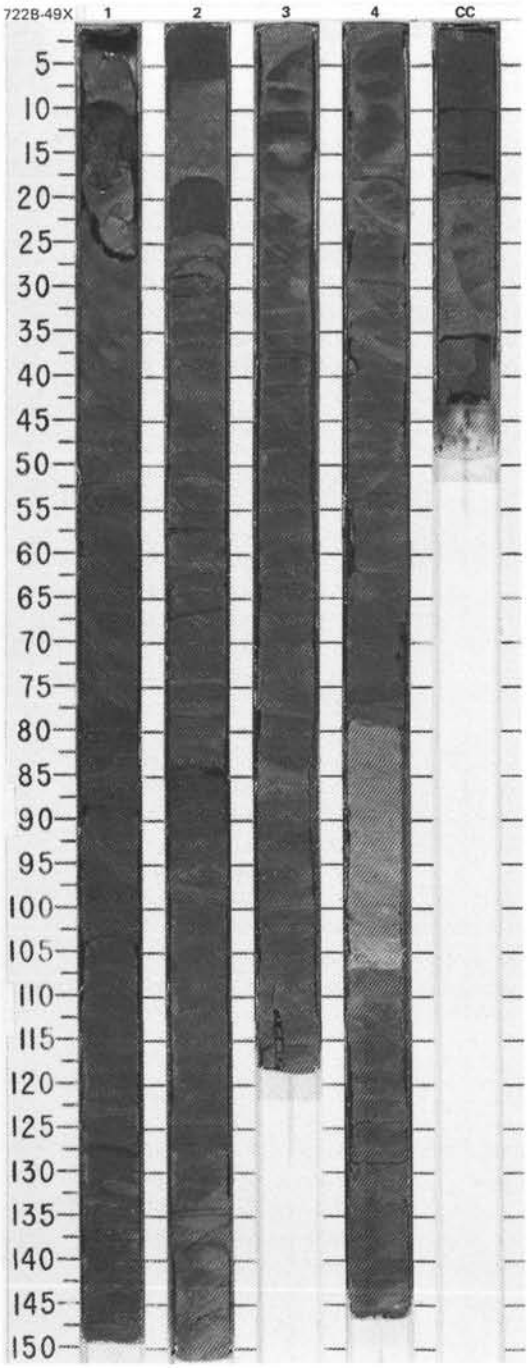
Entire core slightly fractured.

Major lithology: SILTY CLAYSTONE, very dark grayish brown (10YR 3/2). Interbedded with marly nannofossil chalk and mudstone. Contacts are sharp. Charcoal-rich bands (1-2 cm thick) and sandy beds (1 cm thick) are common. Pyrite concretions(?) occur in Sections 1, 2, and 4.

Minor lithologies:
a. Marly nannofossil chalk, olive gray (5Y 5/2). Moderately bioturbated and interbedded with silty claystone and and mudstone. Contacts are sharp.
b. Mudstone, gray (5Y 5/1). Interbedded with marly nannofossil chalk and silty claystone. Contacts are sharp. Bioturbation is minor; mica flakes are common.

SMEAR SLIDE SUMMARY (%):

	1, 88 D	2, 70 D	3, 103 M
TEXTURE:			
Sand	50		
Silt	35	25	50
Clay	15	75	50
COMPOSITION:			
Access. minerals	2	Tr	5
Clay	15	60	30
Feldspar	3		
Inorganic calcite	5	20	5
Mica	15	Tr	
Nannofossils		Tr	50
Quartz	60	20	10
Rock fragments	Tr		



SITE 722 HOLE B CORE 50X CORED INTERVAL 2496.8-2506.4 mbsl; 469.0-478.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
?	* Barren	* R/P ?	* Barren			● ϕ=45.2 γ=1.98 ● ϕ=43.3 γ=1.88		1 2 3 4 CC	0.5 1.0				PP

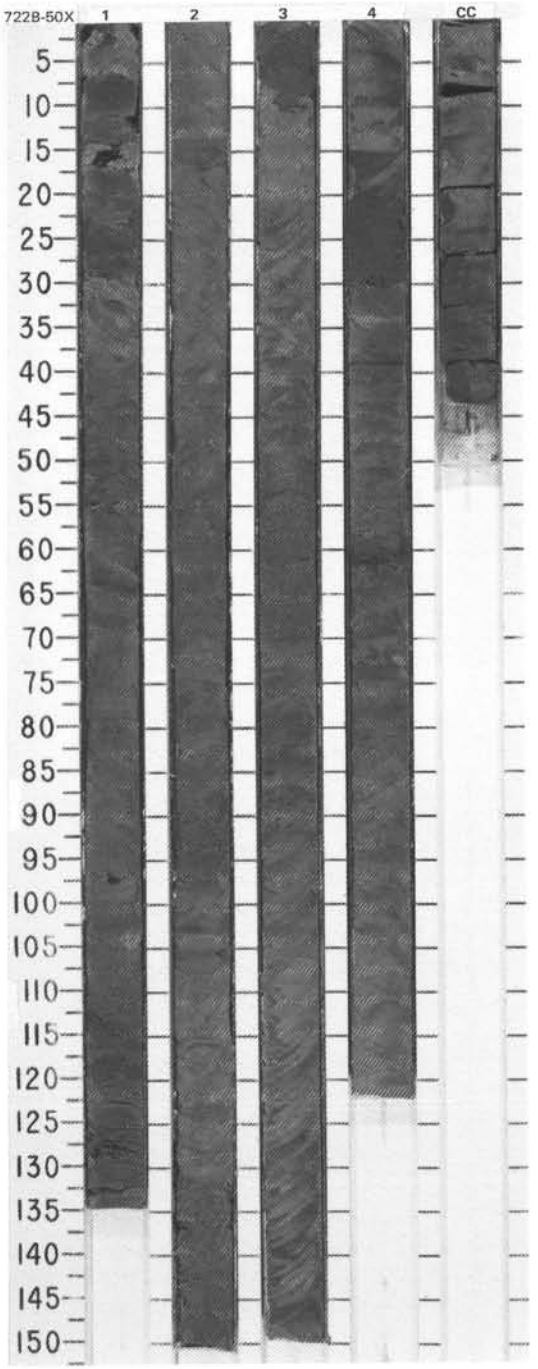
LITHOLOGIC DESCRIPTION

Interbedded SANDY MUDSTONE and MUDSTONE

Entire core is moderately fractured.

Major lithology: Interbedded, massive SANDY MUDSTONE and MUDSTONE, gray (5YR 3/1). Contacts sharp. Contain disseminated pyrite- and charcoal-rich bands (1-2 cm thick), in Sections 2-3.

Minor lithologies:
a. Silty claystone, very dark gray (5YR 3/1). Sections 1, 4, and CC.
b. Sandy siltstone, very dark grayish brown (10YR 3/2). Fines upward into silty claystone. Sections 1, 4, and CC.



SITE 722 HOLE B CORE 51X CORED INTERVAL 2506.4-2516.0 mbsl; 478.6-488.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
?	* Barren	R/P* ?	* Barren			ϕ=38.5 γ=2.13 ●	IC=0.10 DC=1.8 ●	1	0.5				*
								CC	1.0				*

LITHOLOGIC DESCRIPTION

SILTY CLAYSTONE

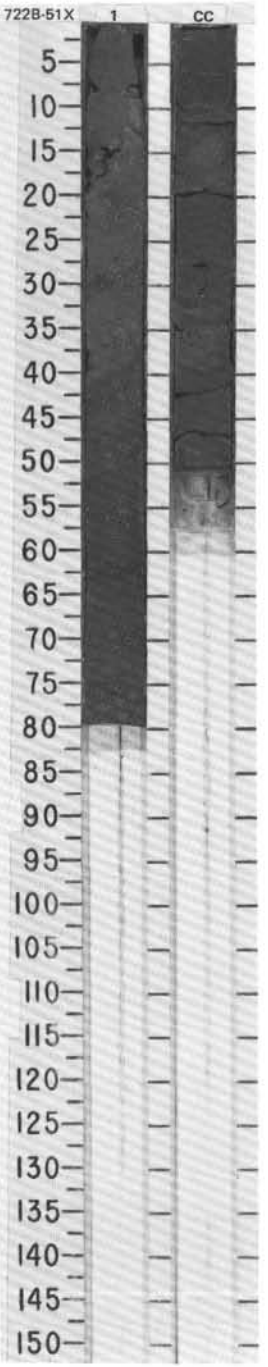
Section 1 is slightly fractured. CC is moderately fractured.

Major lithology: SILTY CLAYSTONE, massive, very dark grayish brown (2.5Y 4/2). Gradationally interbedded with and overlying clayey sand and sandstone.

Minor lithologies:
a. Clayey sand, grades upward into silty claystone. Contains charcoal-rich bands (1-2 cm thick) and parallel laminae.
b. Sandstone, grades upward into clayey siltstone.

SMEAR SLIDE SUMMARY (%):

	1, 26 D	1, 75 D
TEXTURE:		
Sand		50
Silt	20	15
Clay	80	35
COMPOSITION:		
Access. minerals		3
Clay	80	35
Feldspar	Tr	2
Volcanic glass		10
Inorganic calcite	10	10
Mica	Tr	
Nannofossils	Tr	
Quartz	10	40



SITE 722 HOLE B CORE 52X CORED INTERVAL 2516.0-2525.7 mbsl; 488.2-497.9 mbsf

TIME-ROCK UNIT: MIOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER
- FORAMINIFERS: * Barren; *A/M-P
- NANNOFOSSILS: NN4 *Helicosphaera ampliaperta* - NN5 *Sphenolithus heteromorphus*
- RADIOLARIANS: *
- DIATOMS: Barren

PALEOMAGNETICS
PHYS. PROPERTIES: ● ϕ=42.2 γ=2.04; ● ϕ=36.7 γ=1.79; ● ϕ=45.1 γ=2.02
CHEMISTRY
SECTION: 1, 2, 3, 4, 5, 6, 7, CC
METERS: 0.5, 1.0
GRAPHIC LITHOLOGY
DRILLING DISTURB.
SED. STRUCTURES
SAMPLES: OG, IW

LITHOLOGIC DESCRIPTION

SILTY CLAYSTONE

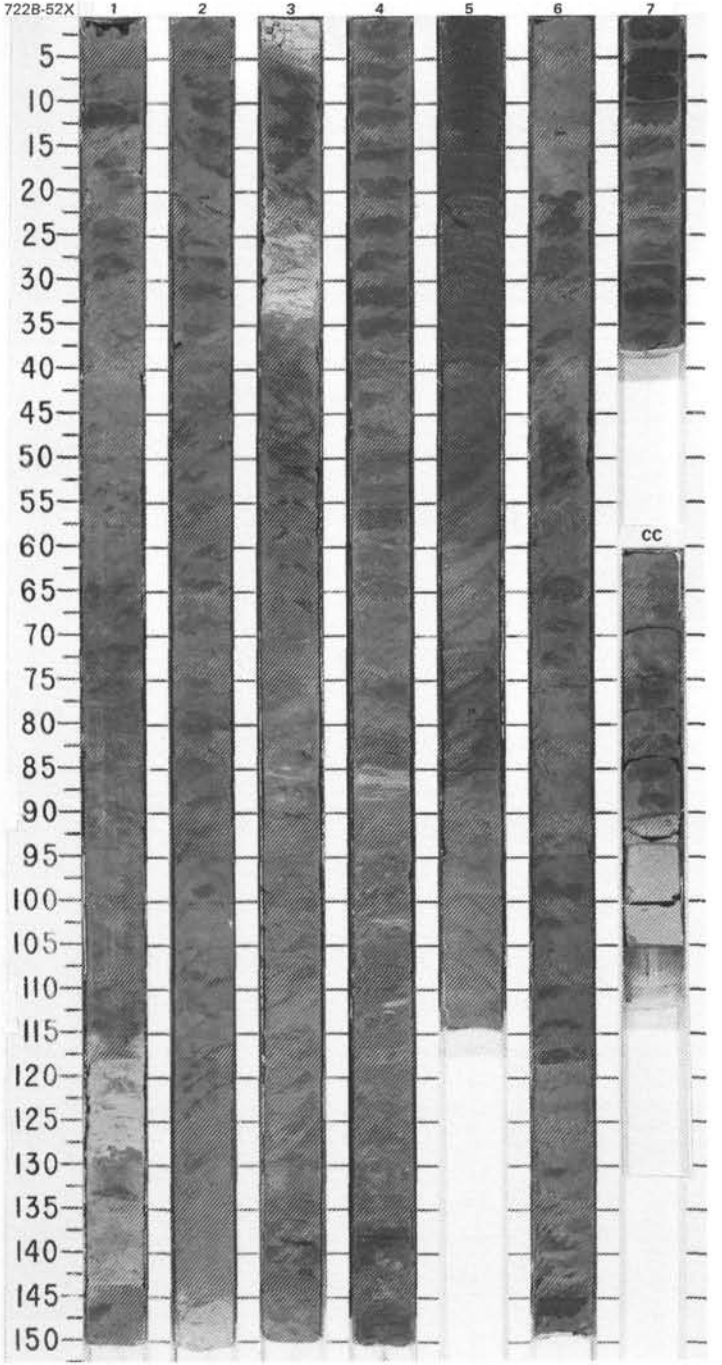
Entire core is moderately disturbed.

Major lithology: SILTY CLAYSTONE, massive. Beds range from dark gray (5Y 4/1) to dark olive (5Y 3/2, 3/1), very dark greenish gray (10Y 4/2), olive gray (5Y 4/2), dark reddish brown (5YR 3/2), dark grayish brown (10YR 4/2), and dark grayish green (10Y 5/2). Contains upward-fining carbonate turbidites (5 cm thick). Interbedded with nannofossil chalk and foraminifer-bearing nannofossil chalk. Contacts are sharp.

Minor lithologies:
a. Nannofossil chalk and foraminifer-bearing nannofossil chalk, massive, light gray (5Y 7/1, 10YR 7/2) to gray (5Y 6/1). Interbedded with silty claystone. Contacts are sharp. Minor bioturbation throughout.
b. Clayey sand, dark gray (5Y 4/1). Grades upward into silty claystone, Section 5, 0-40 cm.

SMEAR SLIDE SUMMARY (%):

	1, 126 D	2, 20 D	3, 1 D	5, 12 D	5, 78 D	6, 13 D
TEXTURE:						
Sand	2		5	59	60	
Silt	8	32	5	15	40	10
Clay	90	68	90	25	60	90
COMPOSITION:						
Access. minerals	2		5	5		
Clay	20	65	10	25	60	90
Dolomite					Tr	
Feldspar				2		
Foraminifers	2		5			
Volcanic glass				10	Tr	
Inorganic calcite	8	10	5	10	15	7
Mica	Tr		Tr			
Nannofossils	70	3	80			Tr
Quartz	Tr	20		45	20	3



SITE 722 HOLE B CORE 53X CORED INTERVAL 2525.7-2535.4 mbsl; 497.9-507.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
MIOCENE NN4 *Helicosphaera ampliaperta* - NN5 *Sphenolithus heteromorphus* Barren	*	*R/M	*			ϕ=43.8 γ=2.05 ●		1 CC	0.5 1.0			△	*

LITHOLOGIC DESCRIPTION

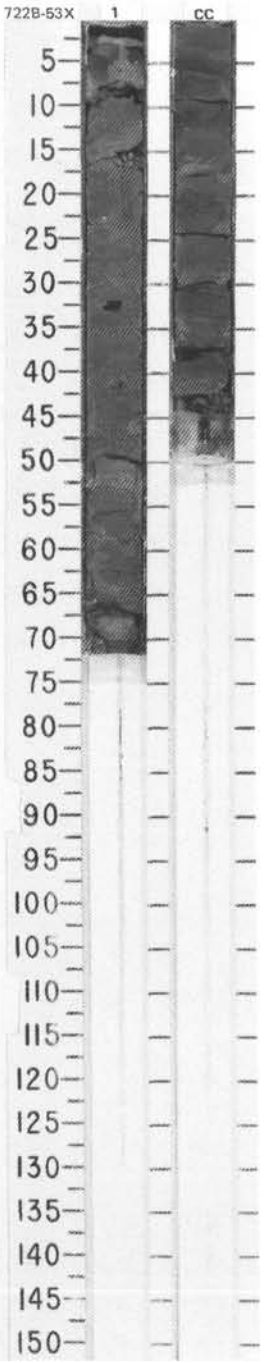
SILTY CLAYSTONE

Entire core moderately fractured.

Major lithology: SILTY CLAYSTONE, massive, dark gray (5YR 4/1).

SMEAR SLIDE SUMMARY (%):

	1, 41 D
TEXTURE:	
Silt	40
Clay	60
COMPOSITION:	
Access. minerals	2
Clay	60
Dolomite	Tr
Feldspar	1
Volcanic glass	1
Inorganic calcite	15
Mica	1
Quartz	20



SITE 722 HOLE B CORE 54X CORED INTERVAL 2535.4-2545.0 mbsl; 507.6-517.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
MIOCENE	Barren *	Barren *	Barren *					1					**
								CC	0.5				

LITHOLOGIC DESCRIPTION

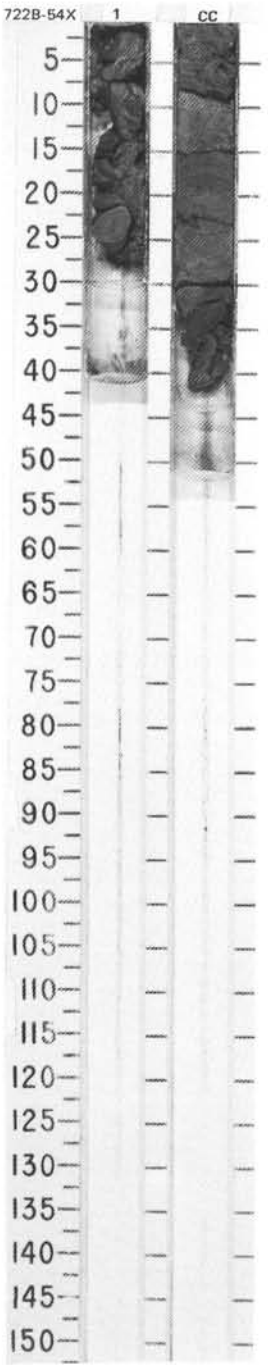
SILTY CLAYSTONE and MICACEOUS SAND

Entire core is highly fragmented.

Major lithologies:
a. SILTY CLAYSTONE, massive, light gray (10YR 7/2) to yellowish brown (10YR 5/4).
b. MICACEOUS SAND, dark gray (10YR 4/1).

SMEAR SLIDE SUMMARY (%):

	1, 17 D	1, 23 D
TEXTURE:		
Sand	80	
Silt	10	60
Clay	10	40
COMPOSITION:		
Access. minerals	5	Tr
Clay	10	40
Feldspar	5	
Volcanic glass	Tr	Tr
Inorganic calcite	10	30
Mica	10	
Quartz	60	30



SITE 722 HOLE B CORE 55X CORED INTERVAL 2545.0-2554.7 mbsl; 517.2-526.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
? Barren	*	*R/P	*			ϕ=11.6 γ=2.71 ●		1, CC	0.5				

LITHOLOGIC DESCRIPTION

SILTY CLAYSTONE and MICACEOUS SAND

Major lithologies:
a. SILTY CLAYSTONE, massive, dark gray (5YR 4/1).
b. MICACEOUS SAND, dark gray (10YR 4/1), pyrite present.

SMEAR SLIDE SUMMARY (%):

	2, 135 D
TEXTURE:	
Silt	30
Clay	70
COMPOSITION:	
Clay	40
Diatoms	10
Foraminifers	Tr
Inorganic calcite	15
Nannofossils	20
Opaques	2
Quartz	5
Radiolarians	Tr
Silicoflagellates	2
Sponge spicules	3
Zeolites	3

SITE 722 HOLE B CORE 56X CORED INTERVAL 2554.7-2564.4 mbsl; 526.9-536.6 mbsf

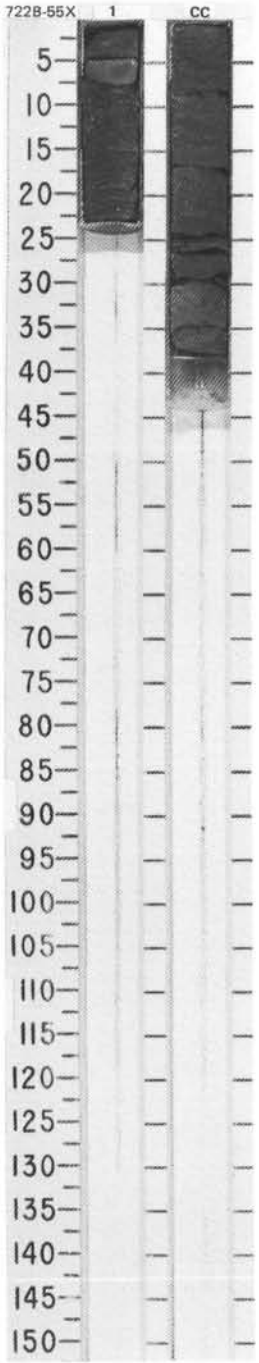
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
? Barren	*	R/P*	*					CC					

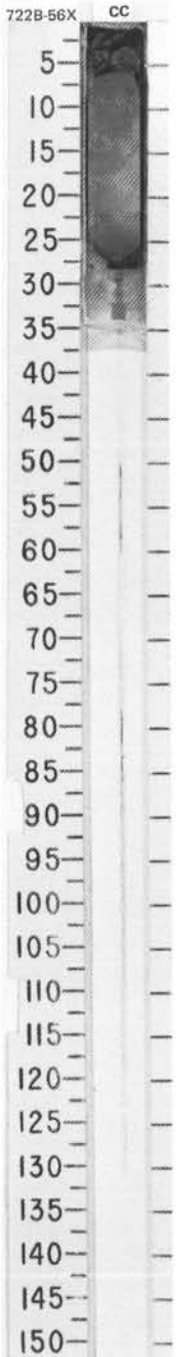
LITHOLOGIC DESCRIPTION

SANDSTONE

Entire core is slightly fractured to brecciated.

Major lithology: SANDSTONE, dark gray (5Y 4/1), with minor parallel laminae. Fine-grained, moderately sorted. Quartz, feldspar, chlorite, mica, and pyrite visible in hand-sample.





SITE 722 HOLE B CORE 57X CORED INTERVAL 2564.4-2574.0 mbsl; 536.6-546.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
?	Barren	?	Barren			φ=41.3 γ=2.07		1 CC	0.5				*

LITHOLOGIC DESCRIPTION

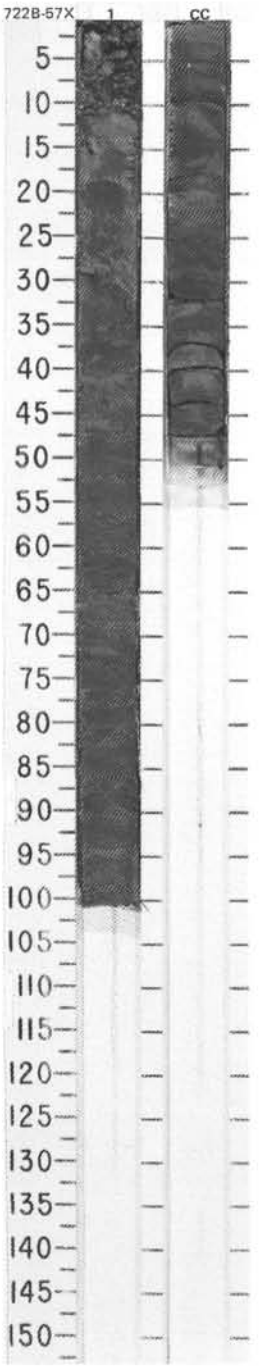
CLAYEY SILTSTONE and SILTY SAND

Entire core moderately fractured.

Major lithologies:
a. CLAYEY SILTSTONE, dark gray (10YR 4/1), interbedded with silty sand. Contacts obscured by drilling deformation.
b. Silty sand, gray (10YR 4/1).

SMEAR SLIDE SUMMARY (%):

	1, 23 D	1, 61 D
TEXTURE:		
Sand		40
Silt	55	40
Clay	45	20
COMPOSITION:		
Access. minerals	3	5
Clay	45	20
Dolomite	Tr	
Feldspar	2	5
Volcanic glass	3	10
Inorganic calcite	10	20
Mica	2	Tr
Quartz	35	40



SITE 722 HOLE B CORE 58X CORED INTERVAL 2574.0-2583.7 mbsl; 546.2-555.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
MIOCENE ?	* R/P	no age diagnostic taxa	Barren		γ-2.01	ϕ-43.9 γ-2.06 ϕ-42.1 γ-2.09 ϕ-38.1	IC-2.50 OC-0.05	1 2 3 4 5 6 7 CC	0.5 1.0				PP OG IW PP
	* C/P	*											

LITHOLOGIC DESCRIPTION

CLAYSTONE and NANNOFOSSIL CHALK

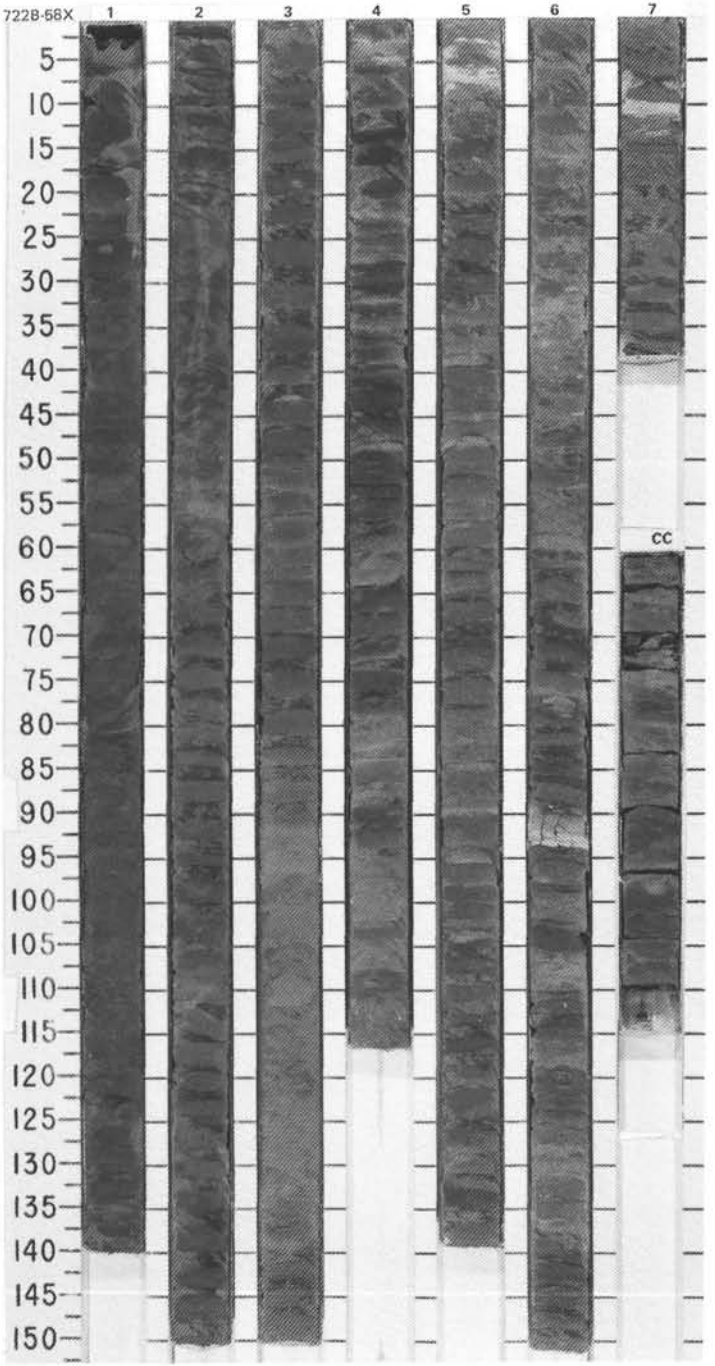
Moderately disturbed throughout.

Major lithology: CLAYSTONE, dark gray (5YR 4/1) to olive (5Y 4/3), olive gray (5Y 4/2), reddish brown (5YR 4/3), greenish gray (5G 5/1), and reddish gray (5YR 4/2). Interbedded with NANNOFOSSIL CHALK. Minor bioturbation throughout.

Minor lithology: Interbedded clayey silt and silty sand, dark gray (5YR 4/1). Silty sand has sharp basal contacts and fines upward into clayey silt. Silty sand/clayey silt units are 10-20 cm thick.

SMEAR SLIDE SUMMARY (%):

	4, 50 D	6, 93 M
TEXTURE:		
Silt	10	10
Clay	90	90
COMPOSITION:		
Access. minerals	Tr	
Cement		5
Clay	70	20
Dolomite	Tr	Tr
Foraminifers		3
Inorganic calcite	10	5
Mica	Tr	
Nannofossils	10	67
Quartz	10	Tr
Rock fragments		Tr



SITE 722 HOLE B CORE 59X CORED INTERVAL 2583.7-2593.4 mbsl; 555.9-565.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	BIOSTRAT. ZONE/ FOSSIL CHARACTER: NANNOFOSSILS	BIOSTRAT. ZONE/ FOSSIL CHARACTER: RADIOLARIANS	BIOSTRAT. ZONE/ FOSSIL CHARACTER: DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
MIOCENE	Barren	NN3 *Sphenolithus belemnos*	Barren			ϕ-42.4 γ-2.04		1 CC	0.5 1.0				*

LITHOLOGIC DESCRIPTION

CLAYSTONE

Moderately fractured to highly fragmented throughout.

Major lithology: CLAYSTONE, olive (5Y 4/2) to dark gray (5YR 4/1) and greenish gray (5GY 5/1). Carbonate turbidite(?) in Section 1, 64-75 cm.

SMEAR SLIDE SUMMARY (%):

	1, 73 M
TEXTURE:	
Sand	20
Silt	20
Clay	60
COMPOSITION:	
Foraminifers	20
Inorganic calcite	30
Nannofossils	50