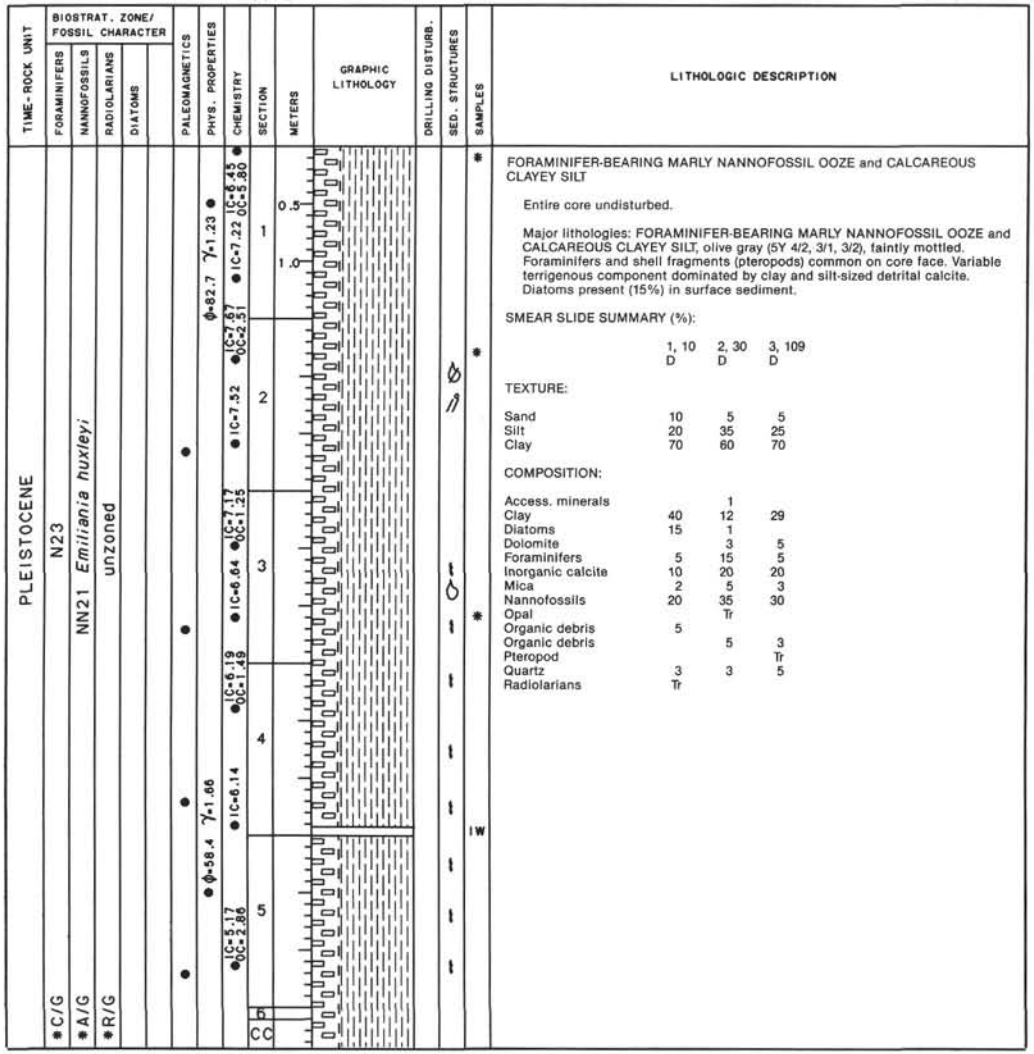
SITE 723 HOLE A CORE 1H CORED INTERVAL 807.8-815.6 mbsl; 0.0-7.8 mbsf



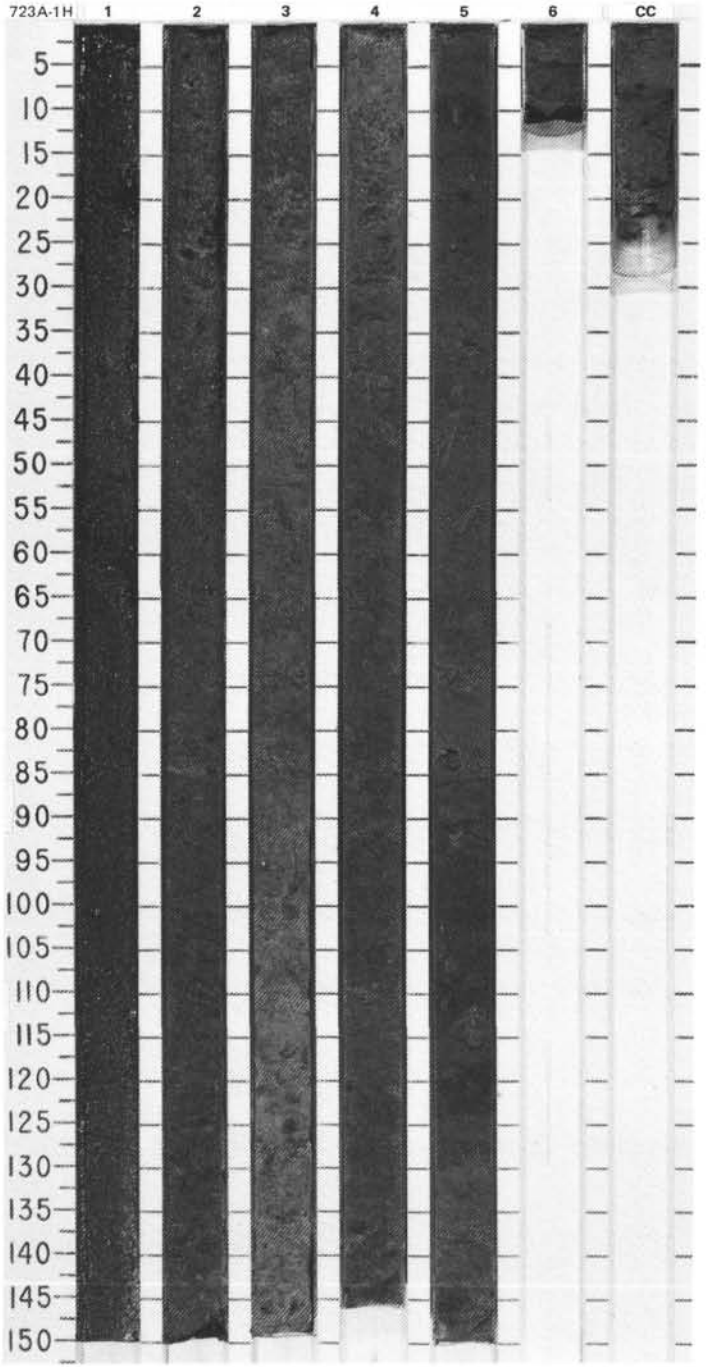
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Entire core undisturbed.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2, 3/1, 3/2), faintly mottled. Foraminifers and shell fragments (pteropods) common on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite. Diatoms present (15%) in surface sediment.

SMEAR SLIDE SUMMARY (%):

	1, 10 D	2, 30 D	3, 109 D
TEXTURE:			
Sand	10	5	5
Silt	20	35	25
Clay	70	60	70
COMPOSITION:			
Access. minerals		1	
Clay	40	12	29
Diatoms	15	1	
Dolomite		3	5
Foraminifers	5	15	5
Inorganic calcite	10	20	20
Mica	2	5	3
Nannofossils	20	35	30
Opal		Tr	
Organic debris	5		
Organic debris		5	3
Pteropod			Tr
Quartz	3	3	5
Radiolarians	Tr		



SITE 723 HOLE A CORE 2H CORED INTERVAL 815.6-825.3 mbsl; 7.8-17.5 mbsf

TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER
- FORAMINIFERS: N23
- NANNOFOSSILS: NN21 *Emiliania huxleyi*
- RADIOLARIANS: *Barren
- DIATOMS:

PALEOMAGNETICS
PHYS. PROPERTIES
CHEMISTRY
SECTION
METERS
GRAPHIC LITHOLOGY
DRILLING DISTURB.
SED. STRUCTURES
SAMPLES

LITHOLOGIC DESCRIPTION

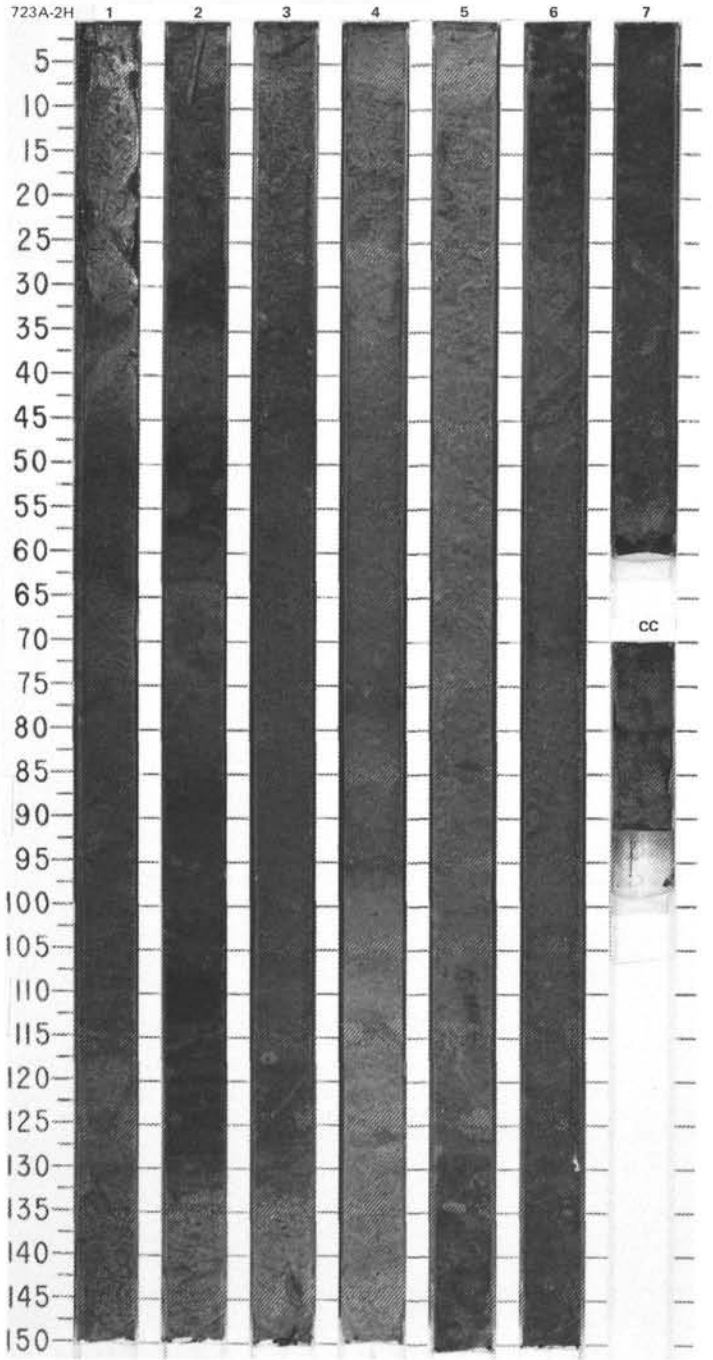
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Entire core undisturbed.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2, 4/3) and dark olive gray (5Y 3/2, 3/1, 2.5/1). Increased color contrast and mottling. Section 6 contains centimeter-scale light and dark layers. Foraminifers and shell fragments (pteropods) common on core face. Shell debris concentrated in burrows. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	2, 145 M	4, 99 D
TEXTURE:		
Sand	5	15
Silt	50	30
Clay	45	55
COMPOSITION:		
Clay	40	25
Dolomite	Tr	Tr
Feldspar		Tr
Foraminifers	5	15
Hornblende		Tr
Inorganic calcite	25	30
Mica	5	5
Nannofossils	Tr	10
Other	20	
Pellets		10
Quartz	5	5
Rock fragments		Tr
Sponge spicules	Tr	



SITE 723 HOLE A CORE 3H CORED INTERVAL 825.3-834.9 mbsl; 17.5-27.1 mbsf

FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Entire core undisturbed.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2, 4/3) and dark olive gray (5Y 3/2, 3/1, 2.5/1). Increased color contrast and mottling. Section 6 contains centimeter-scale light and dark layers. Foraminifers and shell fragments (pteropods) common on core face. Shell debris concentrated in burrows. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	2, 145 M	4, 99 D
TEXTURE:		
Sand	5	15
Silt	50	30
Clay	45	55
COMPOSITION:		
Clay	40	25
Dolomite	Tr	Tr
Feldspar		Tr
Foraminifers	5	15
Hornblende		Tr
Inorganic calcite	25	30
Mica	5	5
Nannofossils	Tr	10
Other	20	
Pellets		10
Quartz	5	5
Rock fragments		Tr
Sponge spicules	Tr	

SITE 723 HOLE A CORE 4H CORED INTERVAL 834.9-844.6 mbsl; 27.1-36.8 mbsf

TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER:
- FORAMINIFERS: N23
- NANNOFOSSILS: NN21 *Emiliania huxleyi*
- RADIOLARIANS: NN20 *Gephyrocapsa oceanica*
- DIATOMS: unzoned

*C/G
*A/G *A/M
*R/G

PALEOMAGNETICS
PHYS. PROPERTIES: ϕ-65.3 γ-1.81; ϕ-69.4 γ-1.55; ϕ-56.6 γ-1.79
CHEMISTRY: IC-8.42 OC-3.98; IC-4.57; IC-6.42; IC-5.33 OC-3.16; IC-6.04; IC-6.11 OC-1.12; IC-6.51
SECTION: 1 2 3 4 5 6 7 CC
METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.: O
SED. STRUCTURES: *
SAMPLES: *

LITHOLOGIC DESCRIPTION

FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

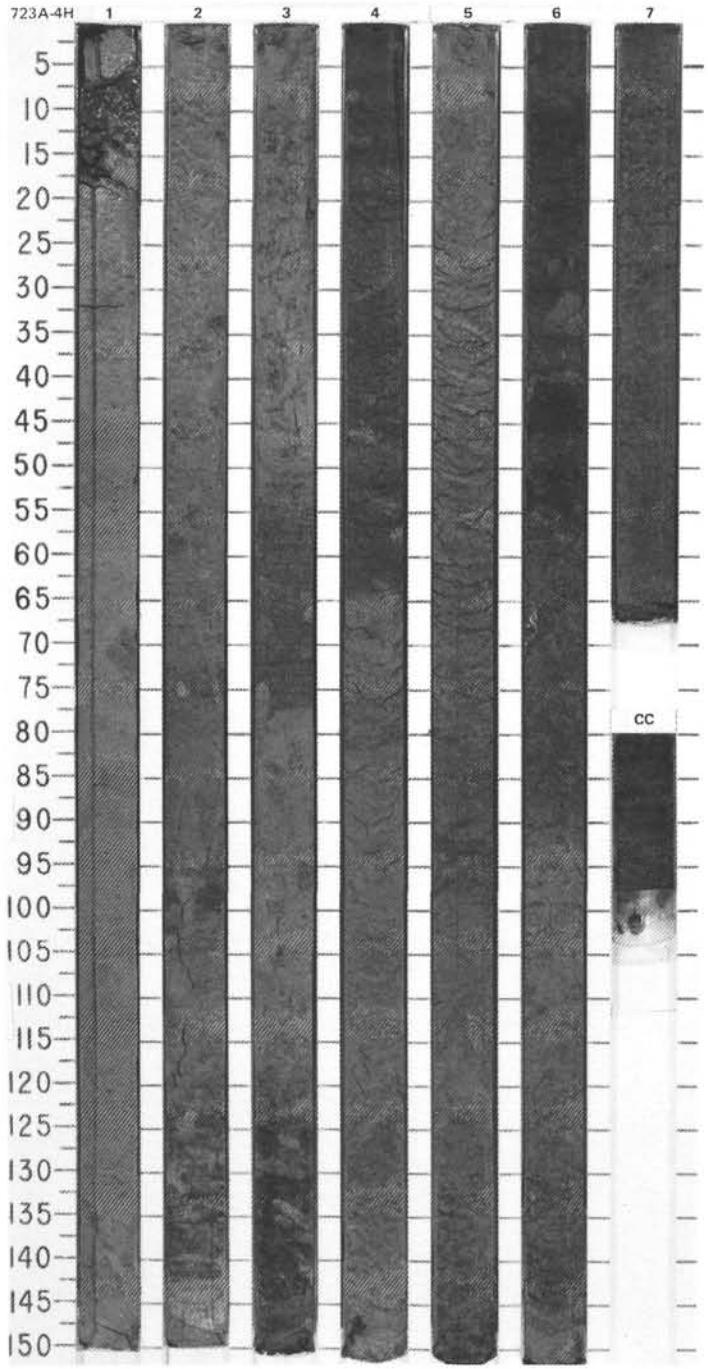
Section 1, 0-15 cm, soupy; remainder undisturbed.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2, 4/3) and dark olive gray (5Y 3/2, 3/1, 2.5/1). Increased color contrast and mottling. Foraminifers and shell fragments (pteropods) common on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

Minor lithology: Section 4, 0-60 cm, diatomaceous silty clay, olive gray (5Y 4/2).

SMEAR SLIDE SUMMARY (%):

	1, 93 D	4, 44 D
TEXTURE:		
Sand		5
Silt	60	30
Clay	40	65
COMPOSITION:		
Access. minerals	2	5
Clay	30	24
Diatoms	Tr	20
Dolomite	2	
Foraminifers	3	10
Inorganic calcite	40	10
Mica	5	3
Nannofossils	10	10
Organic debris	3	5
Pellets		5
Pteropod		Tr
Quartz	5	3



TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER:
- FORAMINIFERS: N23
- NANNOFOSSILS: NN20 *Gephyrocapsa oceanica*
- RADIOLARIANS: R/M * unzoned
- DIATOMS: * C/G; * A/M-G; * F/G

PALEOMAGNETICS
PHYS. PROPERTIES: ●Φ-58.9 γ-1.70; ●Φ-66.2 γ-1.82; ●Φ-64.4 γ-1.55
CHEMISTRY: ●IC-6.34; ●IC-5.62 OC-2.16; ●IC-6.68; ●IC- IC-7.33 OC-2.85; ●IC- IC-8.59 OC-3.19; IC-7.24●

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

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES

LITHOLOGIC DESCRIPTION

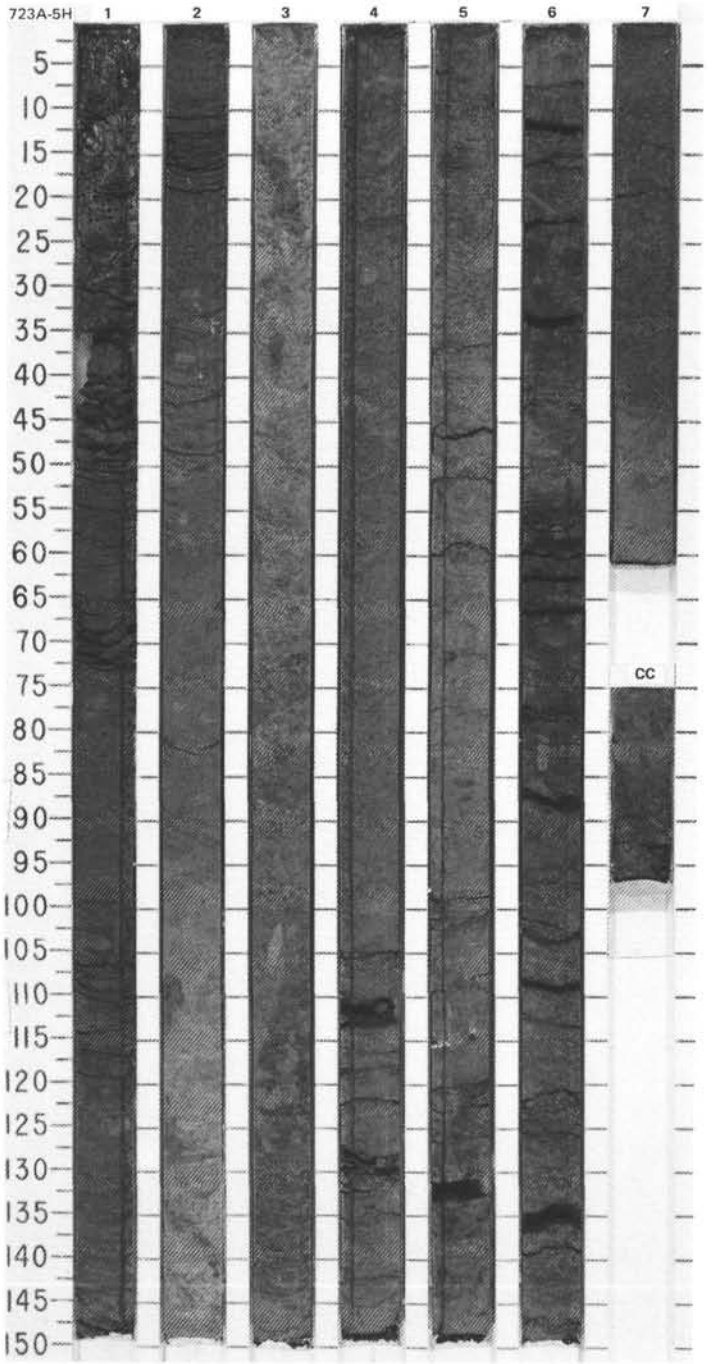
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Section 1, 0-50 cm, moderately disturbed; remainder slightly disturbed by gas expansion cracks and separation.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2, 4/3) and dark olive gray (5Y 3/2). Foraminifers common on core face. Shell debris concentrated in burrows. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	1, 80 D	4, 80 D	6, 74 D
TEXTURE:			
Sand	10	30	20
Silt	30	40	40
Clay	60	30	40
COMPOSITION:			
Clay	15	25	10
Diatoms	Tr	Tr	Tr
Dolomite	Tr	2	Tr
Foraminifers	10	20	5
Inorganic calcite	15	5	50
Mica			5
Nannofossils	55	35	10
Organic debris		5	
Quartz	5	8	20
Silicoflagellates			Tr



SITE 723 HOLE A CORE 6H CORED INTERVAL 854.2-863.9 mbsl; 46.4-56.1 mbsf

TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER:
- FORAMINIFERS: N23
- NANNOFOSSILS: NN20 *Gephyrocapsa oceanica*
- RADIOLARIANS: unzoned
- DIATOMS:

PALEOMAGNETICS: * C/G; * A/G; * R/G

PHYS. PROPERTIES: ● ϕ-65.4 γ-1.58; ● ϕ-60.3 γ-1.69; ● ϕ-59.8 γ-1.67

CHEMISTRY: ● IC-8.08 OC-3.72; ● IC-7.42; ● IC-7.78 OC-2.79; ● IC-6.99; ● IC-7.77; ● IC-7.05 OC-1.17

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

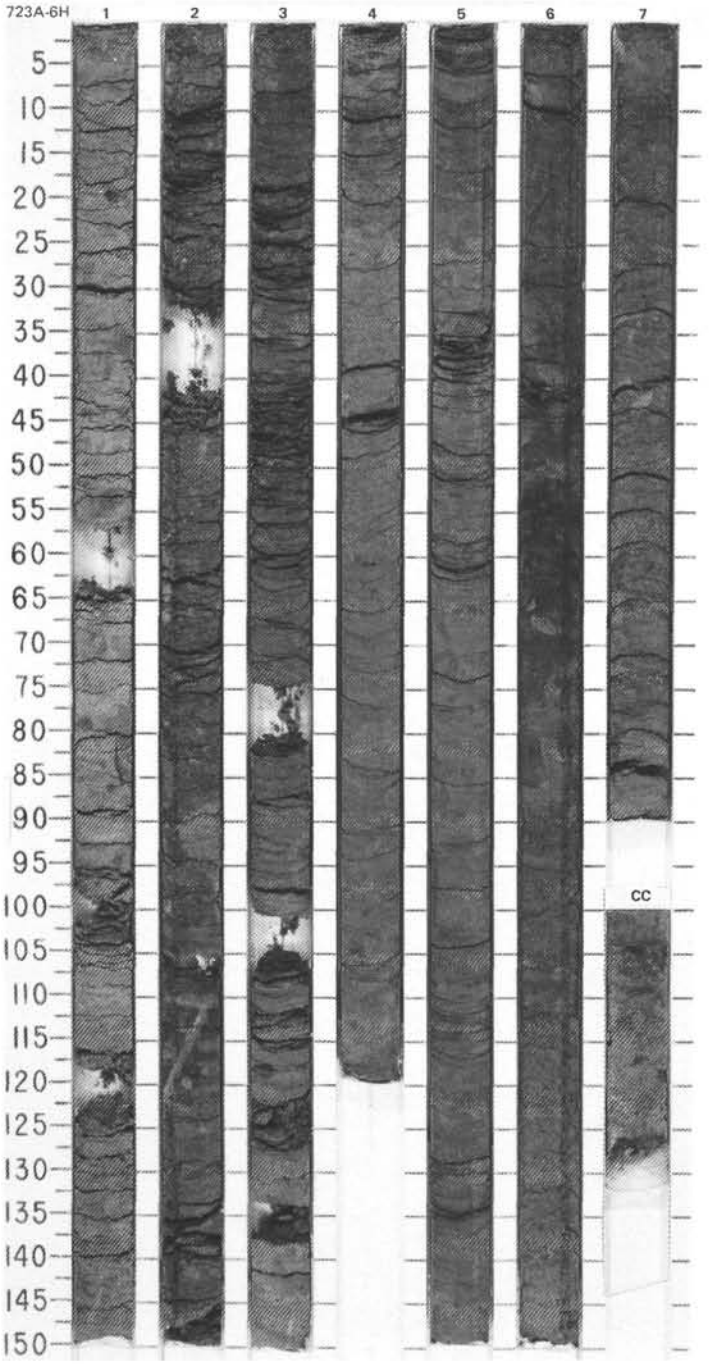
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Entire core slightly disturbed by gas expansion (numerous small voids). Sediment appears continuous across voids within core.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 5/2, 4/2, 4/3) and dark olive gray (5Y 3/2, 2.5/1). Increased color contrast and mottling. Foraminifers common on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	1, 80 D	4, 60 D	6, 55 M
TEXTURE:			
Silt	35	45	50
Clay	65	55	50
COMPOSITION:			
Access. minerals	10	10	10
Clay	20	15	30
Diatoms			Tr
Dolomite	Tr	Tr	Tr
Foraminifers	7	7	10
Volcanic glass		Tr	
Inorganic calcite	13	18	20
Mica	Tr		
Nannofossils	40	40	10
Organic debris			5
Quartz	10	10	15
Sponge spicules			Tr



TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS: N23; NANNOFOSSILS: NN20 *Gephyrocapsa oceanica*; RADIOLARIANS; RADIOLARIANS

PALEOMAGNETICS: ● ● ● ● ● ● ●

PHYS. PROPERTIES: ● ϕ=59.3 γ=1.71; ● ϕ=56.8 γ=1.74

CHEMISTRY: ● IC=7.53; ● IC=6.48 OC=1.82; ● IC=7.13; ● IC=7.37 OC=1.32; ● IC=8.07; ● IC=7.72 OC=2.22; ● IC=7.73

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

METERS

GRAPHIC LITHOLOGY: VOID 56.5; VOID 59.8

DRILLING DISTURB.

SED. STRUCTURES: 1

SAMPLES: *

LITHOLOGIC DESCRIPTION

FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

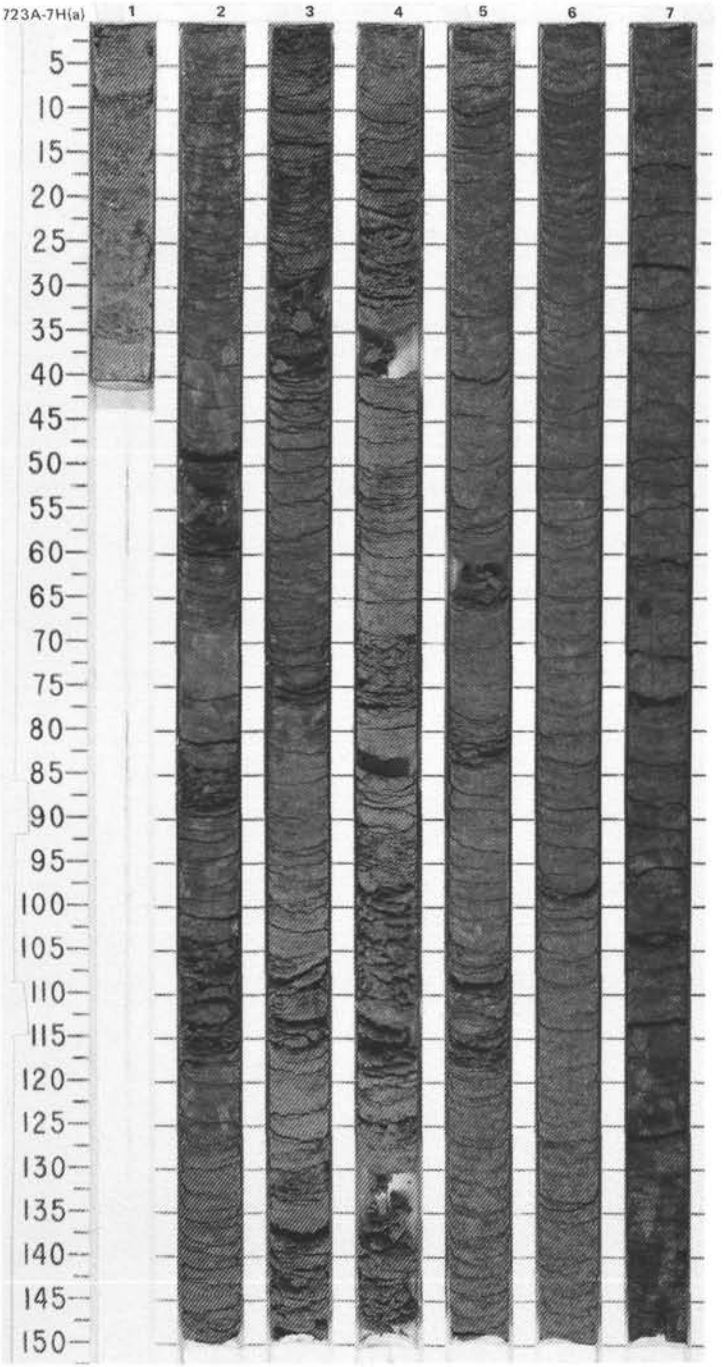
Entire core slightly to moderately disturbed by gas expansion (numerous small voids). Expanded beyond length cored. Sediment appears continuous across voids within core.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2, 4/3) and dark olive gray (5Y 3/1). Foraminifers common on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

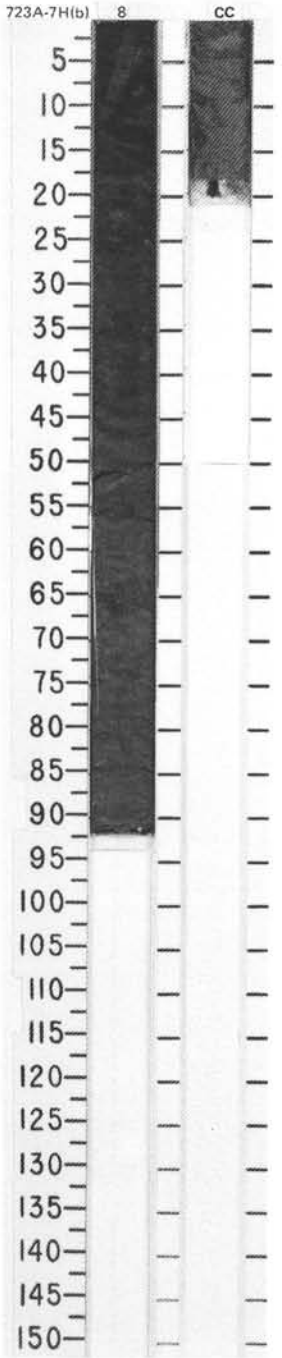
	1, 20 D	7, 20 D
TEXTURE:		
Sand	5	10
Silt	25	35
Clay	70	55
COMPOSITION:		
Access. minerals	2	2
Clay	20	30
Dolomite		Tr
Feldspar		1
Foraminifers	6	6
Volcanic glass	Tr	1
Inorganic calcite	15	20
Nannofossils	50	35
Pteropod		Tr
Quartz	2	5
Sponge spicules	Tr	

(CON'T.)



SITE 723 HOLE A CORE 7H CORED INTERVAL 863.9-873.6 mbsl; 56.1-65.8 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	LITHOLOGIC DESCRIPTION
	*C/G	*A/G	*Barren			ϕ=65.3 γ=1.56 IC=8.07	IC=6.95 C=5.31	8 CC	0.5 1.0					(CON'T.)



SITE 723 HOLE A CORE 8H CORED INTERVAL 873.6-883.2 mbsl; 65.8-75.4 mbsf

TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER:
- FORAMINIFERS: N23
- NANNOFOSSILS: A/M NN19 *Gephyrocapsa oceanica*
- RADIOLARIANS: unzoned
- DIATOMS: (NN19 *Pseudoemiliania lacunosa*)

*C/G
*A/M-G
*R/M

PALEOMAGNETICS
PHYS. PROPERTIES
CHEMISTRY
SECTION
METERS
GRAPHIC LITHOLOGY
DRILLING DISTURB.
SED. STRUCTURES
SAMPLES

LITHOLOGIC DESCRIPTION

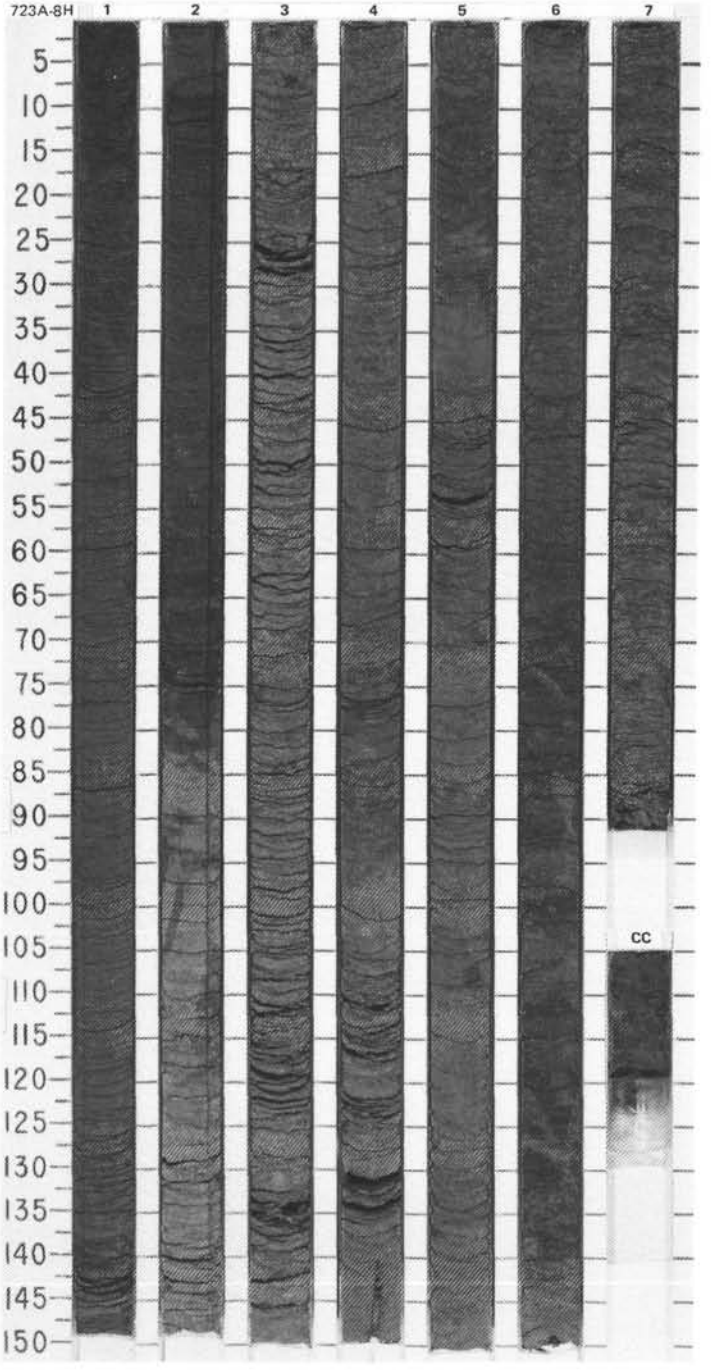
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Entire core slightly disturbed by gas expansion (numerous small voids). Sediment appears continuous across voids within core.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 5/3, 4/2, 4/3, 4/4) and dark olive gray (5Y 3/2). Mottling less obvious. Foraminifers common on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	2, 114 D	6, 14 D
TEXTURE:		
Sand	15	5
Silt	20	30
Clay	65	65
COMPOSITION:		
Access. minerals	2	2
Clay	25	20
Dolomite	1	1
Foraminifers	2	1
Volcanic glass	Tr	Tr
Inorganic calcite	25	25
Mica		1
Nannofossils	40	45
Pteropod		Tr
Quartz	5	5
Sponge spicules		Tr



SITE 723 HOLE A CORE 9H CORED INTERVAL 883.2-892.9 mbsl: 75.4-85.1 mbsf

TIME-ROCK UNIT: PLEISTOCENE

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

PALEOMAGNETICS
PHYS. PROPERTIES: ●ϕ-59.1 γ-1.66; ●ϕ-60.3 γ-1.61; ●ϕ-63.4 γ-1.61
CHEMISTRY: ●IC-7.22; ●IC-7.86 OC-3.37; ●IC-7.18; ●IC-7.23 OC-3.88; ●IC-7.29; ●IC-7.29 OC-3.85; ●IC-7.19
SECTION: 1, 2, 3, 4, 5, 6, 7, CC
METERS: 0.5, 1.0
GRAPHIC LITHOLOGY: VOID 76.47
DRILLING DISTURB.
SED. STRUCTURES
SAMPLES: OG, IW

LITHOLOGIC DESCRIPTION

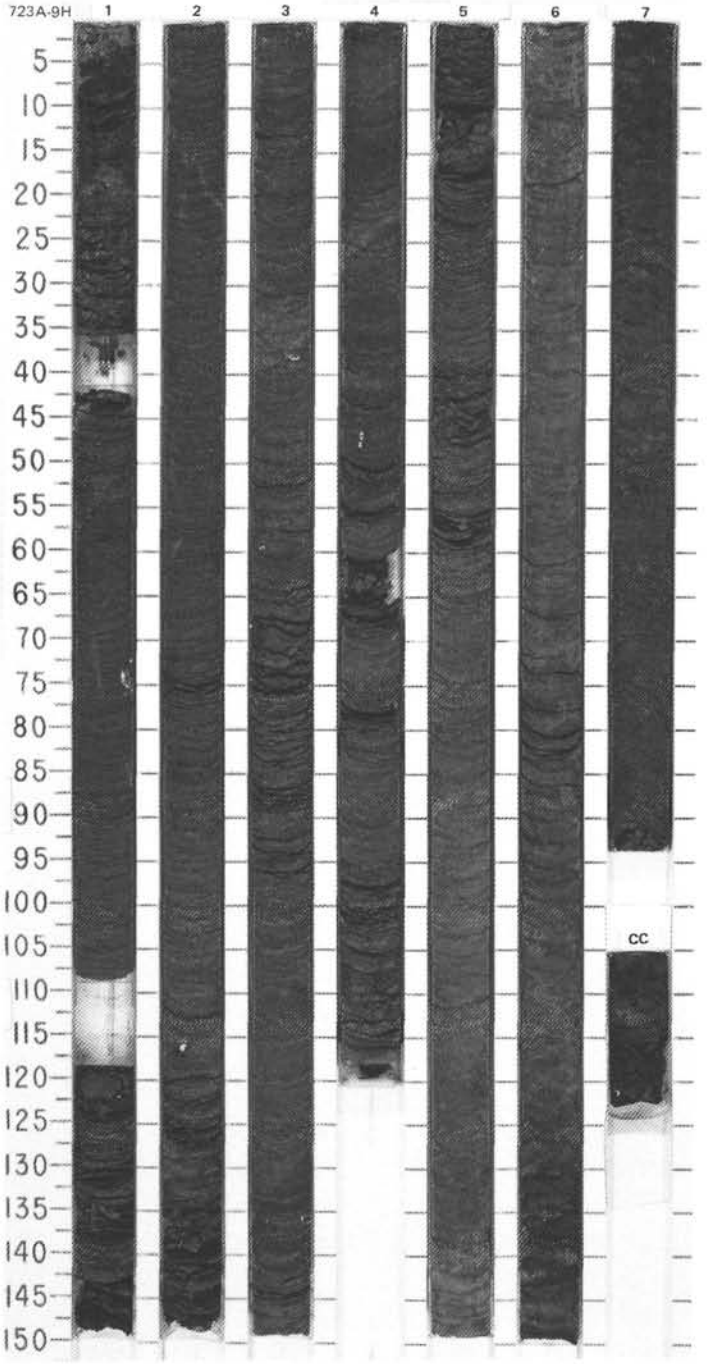
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Section 4, 59-69 cm, heavily disturbed; Section 4, 95-115 cm, moderately disturbed; remainder of core slightly disturbed by gas expansion (numerous small voids). Sediment appears continuous across voids within core.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2, 4/3) and dark olive gray (5Y 3/2), mottled. Foraminifers common on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	1, 57 D	6, 136 D
TEXTURE:		
Sand	15	20
Silt	25	20
Clay	60	60
COMPOSITION:		
Access. minerals	1	2
Clay	25	30
Dolomite	Tr	Tr
Feldspar	1	1
Foraminifers	15	7
Inorganic calcite	16	25
Nannofossils	40	30
Quartz	2	5



CORE 117–723A–10X NO RECOVERY

SITE 723 HOLE A CORE 11X CORED INTERVAL 902.6-912.2 mbsl; 94.8-104.4 mbsf

TIME-ROCK UNIT	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLEISTOCENE	N22 *F/G	NN19 *Pseudoemiliania lacunosa* *A/M	*Barren		• •	•ϕ=53.5 γ=1.7	•IC=6.55 OC=2.91 •IC=5.31	1, 2, CC	0.5, 1.0				*

LITHOLOGIC DESCRIPTION

FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

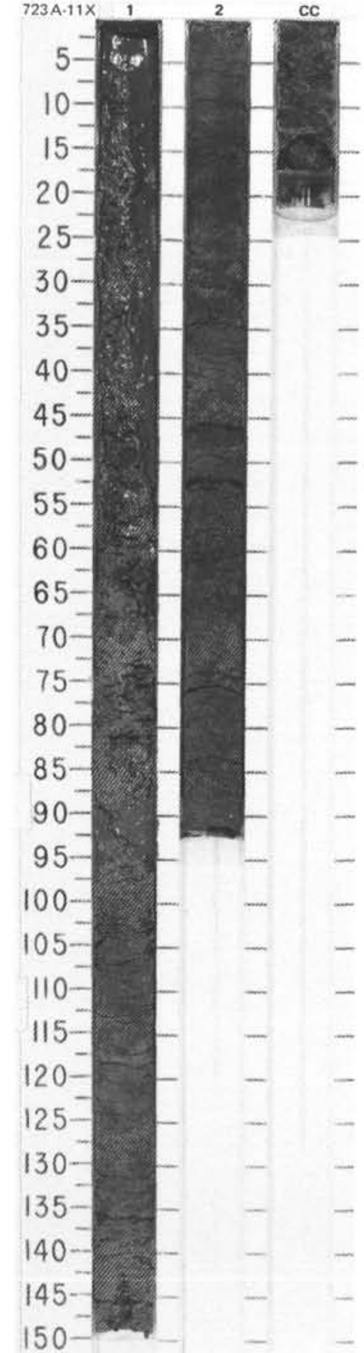
Section 1, 0-100 cm, soupy and very disturbed; remainder slightly disturbed by gas expansion.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2) and dark olive gray (5Y 3/2), mottled. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	2, 58
	D
TEXTURE:	
Sand	15
Silt	35
Clay	50
COMPOSITION:	
Access. minerals	2
Clay	30
Feldspar	1
Foraminifers	2
Volcanic glass	Tr
Inorganic calcite	30
Mica	Tr
Nannofossils	28
Quartz	7

CORE 117–723A–12X NO RECOVERY



SITE 723 HOLE A CORE 13X CORED INTERVAL 921.9-931.6 mbsl; 114.1-123.8 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
PLEISTOCENE	*C/G	N22					IC-7.56 CC-2.19	1	0.5				
						γ-1.61			1.0				
	*A/G	NN19 *Pseudoemiliania lacunosa*				ϕ-63.0	IC-7.48	2		VOID 116.25			
							IC-7.70 CC-2.24	3					
	*Barren						IC-7.45	4		VOID 118.35			
						γ-1.66							OG IW
					ϕ-61.5		IC-7.53 CC-3.61	5					
								CC					

LITHOLOGIC DESCRIPTION

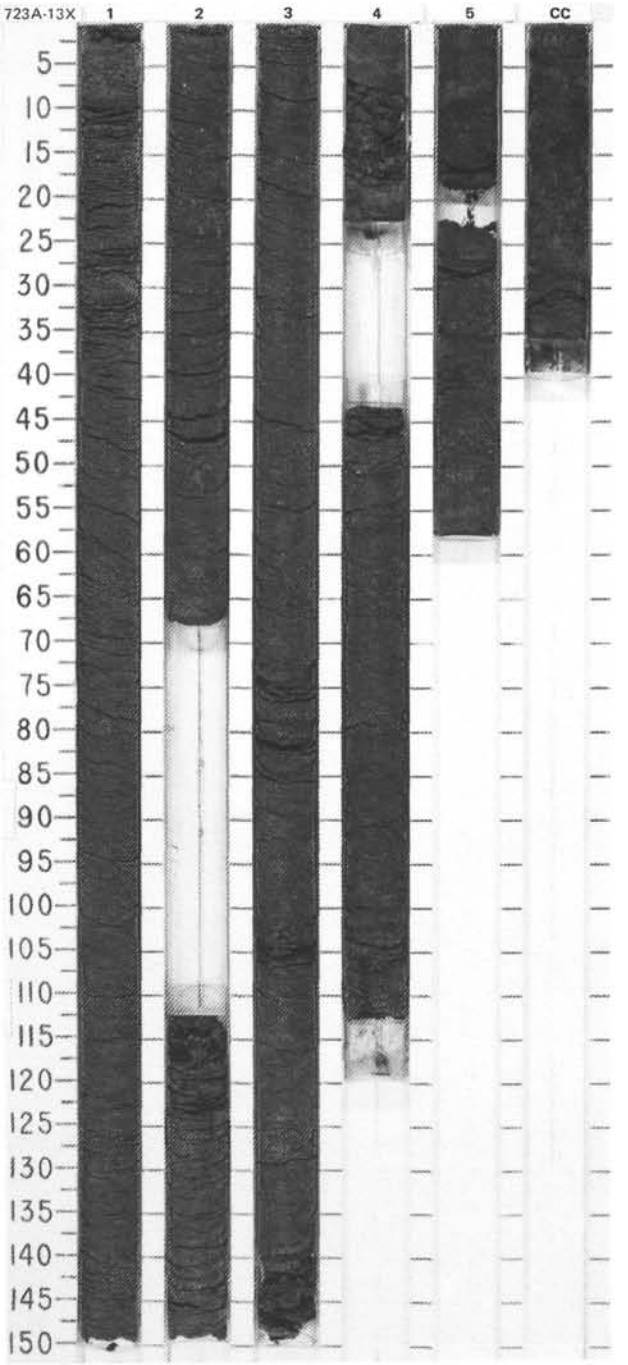
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Entire core slightly to moderately disturbed by gas expansion (voids increasing in size, sediment below space often disturbed by splitting wire). Sediment appears continuous across voids within core.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2), mottled. Foraminifers and shell fragments common on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	3, 65 D
TEXTURE:	
Sand	10
Silt	34
Clay	56
COMPOSITION:	
Access. minerals	2
Clay	30
Feldspar	1
Foraminifers	8
Volcanic glass	Tr
Inorganic calcite	20
Mica	Tr
Nannofossils	36
Pteropod	Tr
Quartz	3
Rock fragments	Tr



SITE 723 HOLE A CORE 14X CORED INTERVAL 931.6-941.2 mbsl; 123.8-133.4 mbsf

TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS: N22 *C/G; NANNOFOSSILS: NN19 *Pseudoemiliania lacunosa* *A/G; RADIOLARIANS: *Barren; DIATOMS

PALEOMAGNETICS

PHYS. PROPERTIES: ϕ-61.9 γ-1.65; ϕ-64.9 γ-1.60

CHEMISTRY: IC-7.54; IC-8.01 OC-2.13; IC-7.39 OC-2.97; IC-7.97 OC-3.28; IC-8.02; IC-7.84 OC-2.88

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID124.45; VOID124.65; VOID125.04; VOID126.64; VOID127.05; VOID128.55

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: *

LITHOLOGIC DESCRIPTION

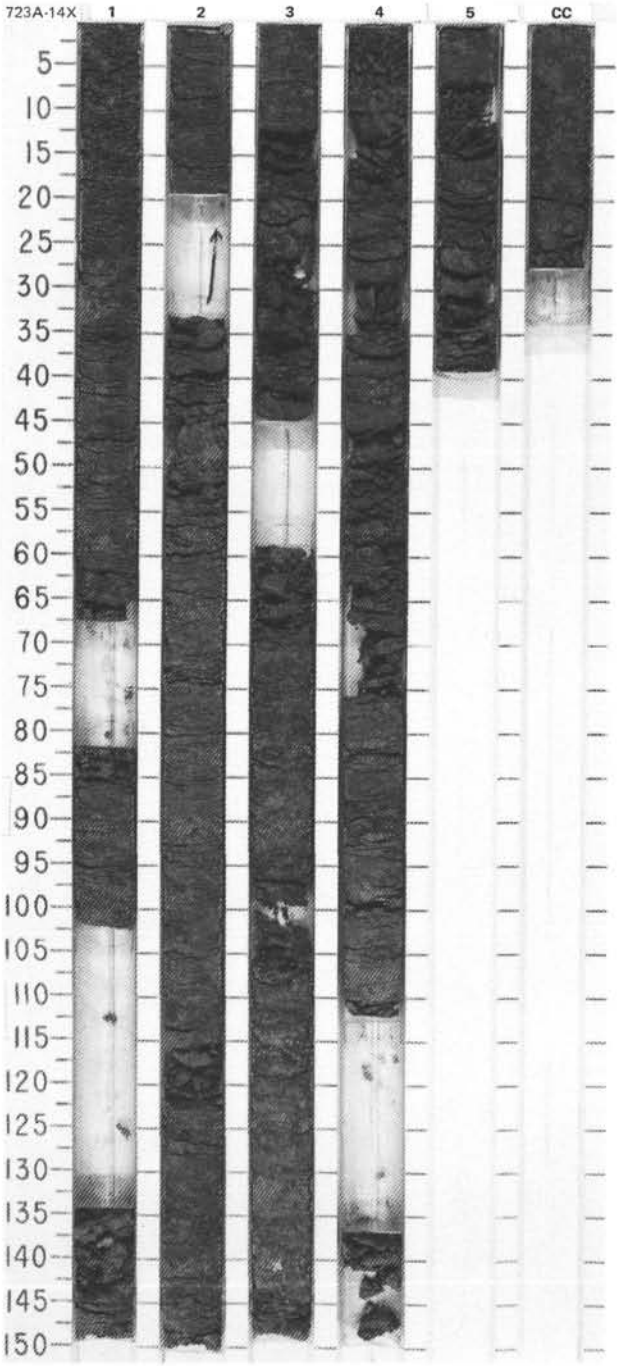
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Entire core slightly to moderately disturbed by gas expansion (numerous voids). Sediment appears continuous across voids within core.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2) and dark olive gray (5Y 3/2), faintly mottled. Foraminifers present on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	2, 89 D
TEXTURE:	
Sand	10
Silt	30
Clay	60
COMPOSITION:	
Access. minerals	Tr
Clay	25
Dolomite	Tr
Foraminifers	5
Inorganic calcite	20
Nannofossils	45
Quartz	5



SITE 723 HOLE A CORE 15X CORED INTERVAL 941.2-950.9 mbsl; 133.4-143.1 mbsf

TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS *C/G; NANNOFOSSILS N22 / NN19 *Pseudoemiliania lacunosa*; RADIOLARIANS *A/G; DIATOMS R/M *unzoned*; PALEOMAGNETICS O; PHYS. PROPERTIES ϕ=59.5 γ=1.71; ϕ=59.9 γ=1.68; ϕ=49.2 γ=1.89; CHEMISTRY IC=7.05; IC=7.28 OC=2.81; IC=7.34 OC=2.51; IC=7.06; IC=6.04 OC=1.95; IC=6.39; IC=6.49 OC=0.92; IC=6.52; SECTION 1 2 3 4 5 6 7 CC; METERS 0.5 1.0; GRAPHIC LITHOLOGY: VOID 133.95, 134.25, 134.36, 134.5, 135.3, 135.4, 135.82, 136.32, 137.67, 136.32, 138.87, 139.54; DRILLING DISTURB.; SED. STRUCTURES; SAMPLES *

LITHOLOGIC DESCRIPTION

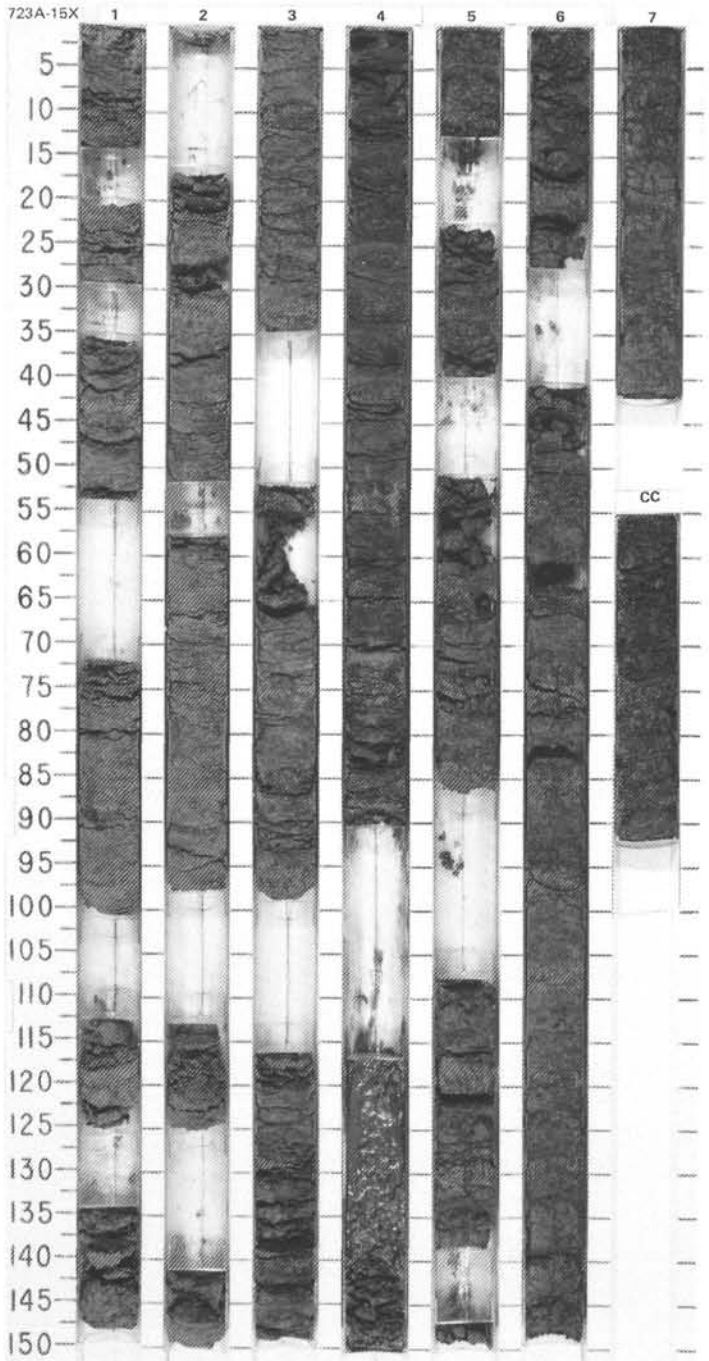
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Entire core slightly to moderately disturbed by gas expansion. (numerous *voids*). *Sediment appears continuous across voids within core except for* Section 4, 130-150 cm, (soupy) sediment missing(?).

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2, 4/3) and dark olive gray, faintly mottled. Foraminifers rare on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	6, 111 D
TEXTURE:	
Sand	20
Silt	35
Clay	45
COMPOSITION:	
Access. minerals	Tr
Clay	20
Feldspar	1
Foraminifers	4
Inorganic calcite	30
Mica	Tr
Nannofossils	25
Quartz	20
Sponge spicules	Tr



CORE 117–723A–16X NO RECOVERY

SITE 723 HOLE A CORE 17X CORED INTERVAL 960.6-970.2 mbsl; 152.8-162.4 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
PLEISTOCENE	*F/M N22	*A/G NN19 *Pseudoemiliania lacunosa*	*R/M unzoned		•	• ϕ=56.8 γ=1.73	• IC=7.52	1	0.5 1.0	VOID 153.85			OG IW	FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT
							• IC=8.30 OC=2.88	2					*	
								CC						

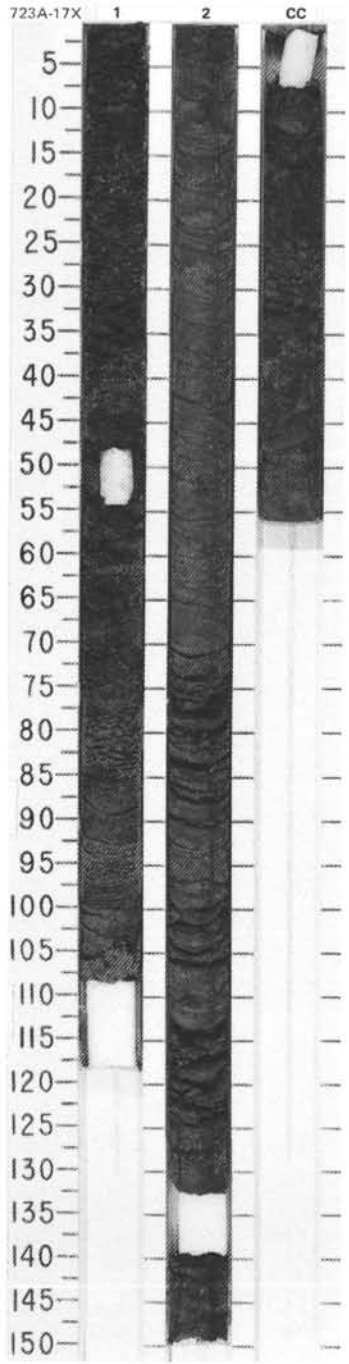
Entire core slightly to moderately disturbed by gas expansion (numerous voids). Section 1, soupy top(?). Sediment appears continuous across voids within core.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/3) and dark olive gray (5Y 3/2), faintly mottled. Foraminifers rare on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	2, 51 D
TEXTURE:	
Sand	5
Silt	15
Clay	80
COMPOSITION:	
Access. minerals	1
Clay	30
Foraminifers	2
Volcanic glass	Tr
Inorganic calcite	10
Nannofossils	50
Quartz	2
Sponge spicules	Tr

CORE 117–723A–18X NO RECOVERY



SITE 723 HOLE A CORE 19X CORED INTERVAL 979.9-989.6 mbsl; 172.1-181.8 mbsf

TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER
- FORAMINIFERS: *F/G; N22
- NANNOFOSSILS: *A/G; NN19 *Pseudoemiliania lacunosa*
- RADIOLARIANS: *R/P; unzoned
- DIATOMS

PALEOMAGNETICS

PHYS. PROPERTIES: ϕ-58.2 γ-1.76; ϕ-49.0 γ-1.87; ϕ-59.4 γ-1.65

CHEMISTRY: IC-6.85; IC-6.47 OC-2.47; IC-6.42 OC-2.80; IC-6.78 OC-3.35; IC-6.87 OC-3.35

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

VOID173.95
VOID174.53
VOID175.38
VOID176.67
VOID177.96
VOID179.15

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES

LITHOLOGIC DESCRIPTION

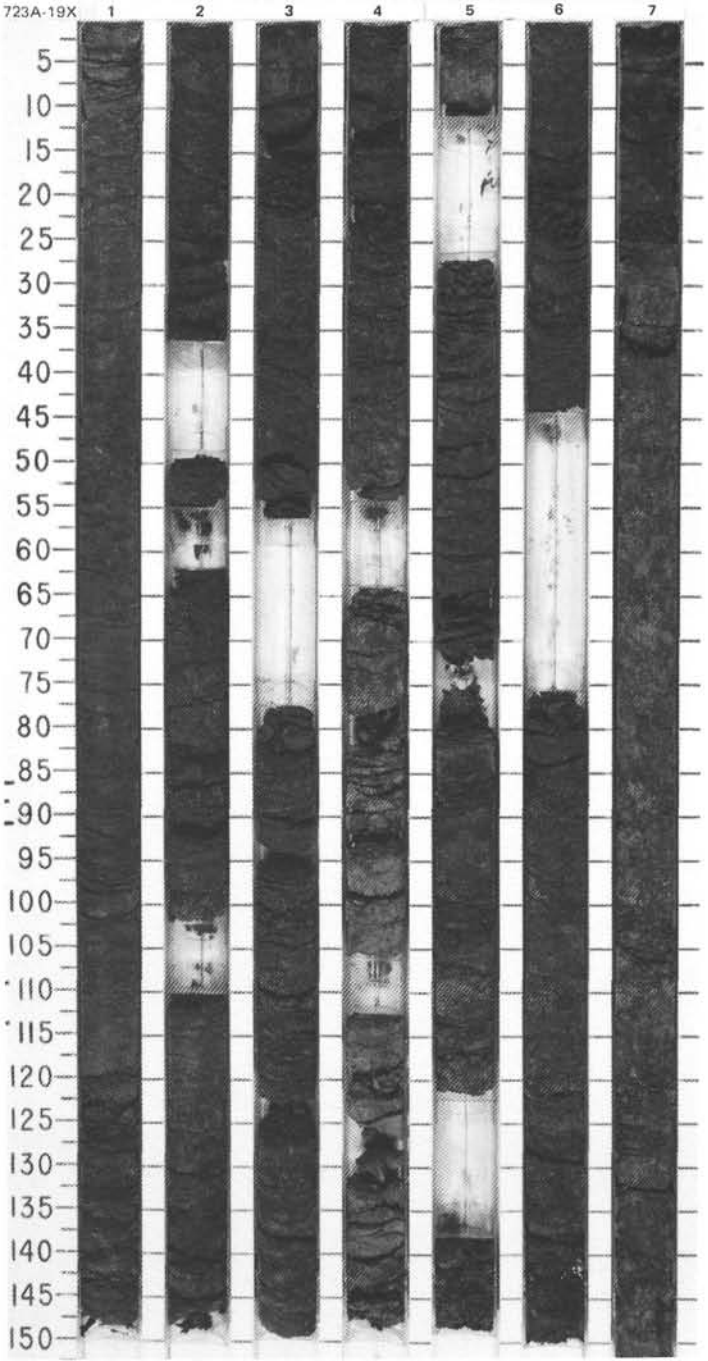
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Entire core slightly to moderately disturbed by gas expansion (numerous voids). Sediment appears continuous across voids within core.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2, 5/3) and dark olive gray (5Y 3/2), faintly mottled. Foraminifers present on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	1, 35 D
TEXTURE:	
Sand	10
Silt	24
Clay	66
COMPOSITION:	
Access. minerals	2
Clay	20
Dolomite	Tr
Feldspar	1
Foraminifers	6
Volcanic glass	Tr
Inorganic calcite	20
Nannofossils	46
Quartz	5
Sponge spicules	Tr



SITE 723 HOLE A CORE 20X CORED INTERVAL 989.6-999.2 mbsl; 181.8-191.4 mbsf

TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/ FOSSIL CHARACTER:
- FORAMINIFERS: * C/G; N22
- NANNOFOSSILS: * A/G; NN19 *Pseudoemiliania lacunosa*
- RADIOLARIANS: * R/P; unzoned
- DIATOMS

PALEOMAGNETICS

PHYS. PROPERTIES: ●Φ=58.2 γ=1.72; ●Φ=56.6 γ=1.80

CHEMISTRY: IC=7.12 OC=1.93; IC=6.68; IC=7.06 OC=2.26; IC=7.04 OC=2.78; IC=7.45; IC=7.20; IC=7.60 OC=3.17

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

VOID 182.4
VOID 182.7
VOID182.95
VOID 183.2
VOID183.41
VOID183.61
VOID184.01
VOID 184.11
VOID184.56
VOID184.76
VOID184.96
VOID185.56
VOID 185.74
VOID186.16
VOID186.36
VOID186.46
VOID186.83
VOID187.37
VOID187.57
VOID187.67
VOID188.06
VOID

DRILLING DISTURB.

SED. STRUCTURES: 6; 6

SAMPLES: *; OG; IW

LITHOLOGIC DESCRIPTION

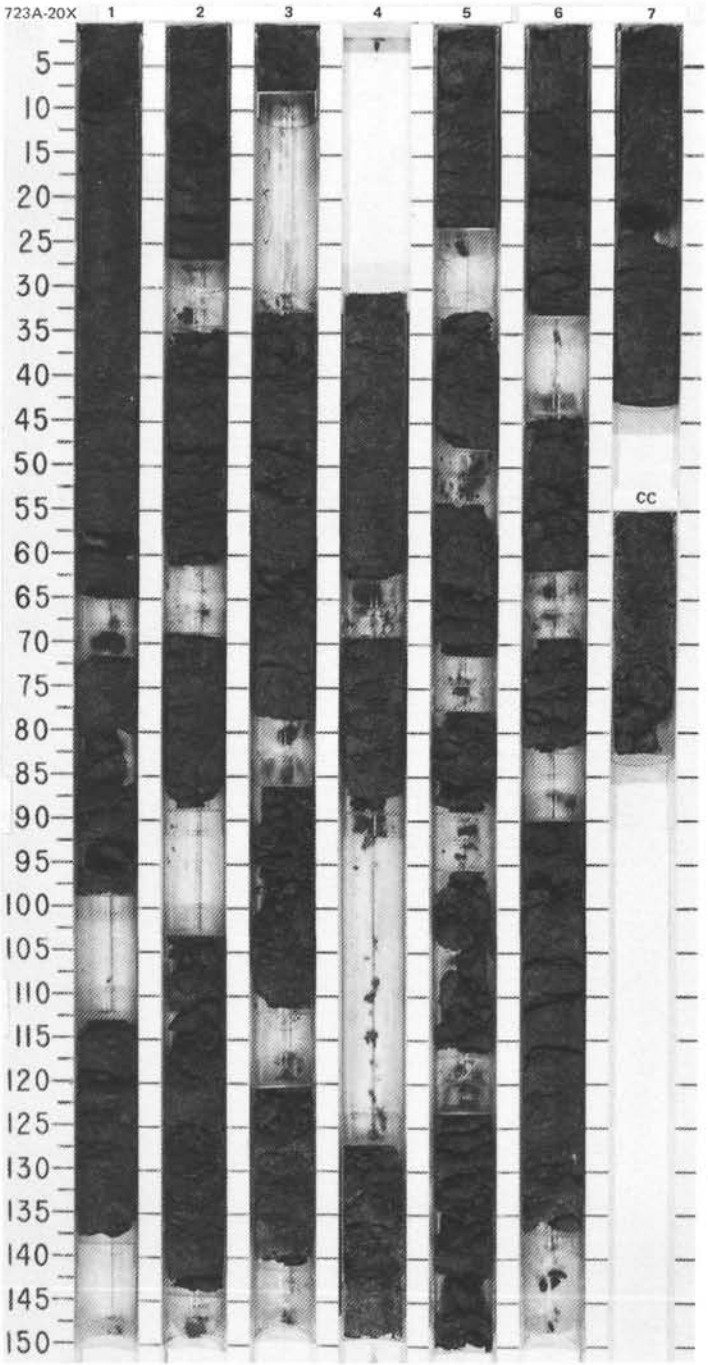
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Entire core moderately disturbed by gas expansion (numerous voids).

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2, 4/3) and dark olive gray (5Y 3/2), faintly mottled. Foraminifers present on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	1, 25 D
TEXTURE:	
Sand	15
Silt	20
Clay	65
COMPOSITION:	
Access. minerals	Tr
Clay	25
Dolomite	Tr
Foraminifers	7
Volcanic glass	Tr
Inorganic calcite	20
Nannofossils	40
Quartz	8



SITE 723 HOLE A CORE 21X CORED INTERVAL 999.2-1008.9 mbsl; 191.4-201.1 mbsf

TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER:
- FORAMINIFERS: *C/M N22; *A/G NN19 *Pseudoemiliania lacunosa*; *R/P unzoned
- NANNOFOSSILS
- RADIOLARIANS
- DIATOMS

PALEOMAGNETICS

PHYS. PROPERTIES: ●ϕ=55.5 γ=1.78; ●ϕ=58.7 γ=1.85; ●ϕ=51.2 γ=1.89

CHEMISTRY: ●IC=6.78; ●IC=7.06 OC=2.11; ●IC=6.34; ●IC=7.37 OC=1.09; ●IC=7.04; ●IC=6.98 OC=1.04; ●IC=6.72

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID 191.92; VOID 192.12; VOID192.41; VOID192.96; VOID193.81; VOID 194.13; VOID 194.26; VOID194.51; VOID 194.5; VOID 194.85; VOID195.96; VOID 195.53; VOID196.86; VOID197.13; VOID197.41; VOID197.62; VOID197.81

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES

LITHOLOGIC DESCRIPTION

FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

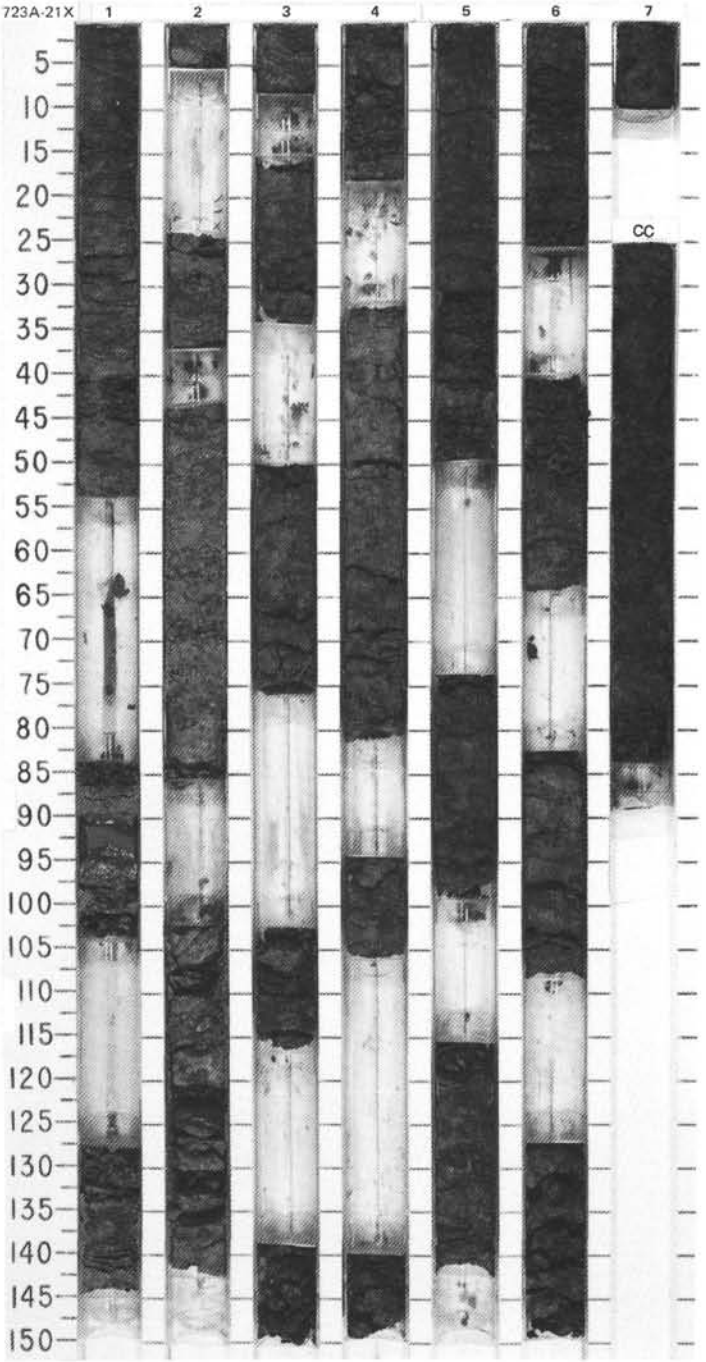
Entire core slightly disturbed by gas expansion (numerous voids). Sediment appears continuous across voids within core (except for Section 1, 90 cm, missing sediment?). Firm cohesive units (10 cm) appear.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2) and dark olive gray, faintly mottled. Foraminifers on core face, more apparent in dark layers. Variable terrigenous component dominated by silt-sized detrital calcite.

Minor lithology: Clayey siltstone composed of 80% poorly sorted inorganic calcite (Section 2, 79 cm, a lithified interval).

SMEAR SLIDE SUMMARY (%):

	2, 79 D	2, 79 D	4, 58 D	6, 41 D
TEXTURE:				
Sand	10	2	15	10
Silt	46	80	30	40
Clay	44	18	55	50
COMPOSITION:				
Access. minerals	Tr		1	Tr
Clay	34	18	25	20
Diatoms				Tr
Dolomite			Tr	
Foraminifers		1	5	10
Volcanic glass	Tr	Tr	Tr	
Inorganic calcite	50	80	38	40
Mica	1	Tr		
Nannofossils	10	Tr	30	20
Organic debris				5
Quartz	5	1	1	5



SITE 723 HOLE A CORE 22X CORED INTERVAL 1008.9-1018.6 mbsl; 201.1-210.8 mbsf

TIME-ROCK UNIT	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLEISTOCENE	*C/M	N22	NN19 *Pseudoemiliania lacunosa*	*F/G unzoned	*A/G	*F/G							

LITHOLOGIC DESCRIPTION

FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

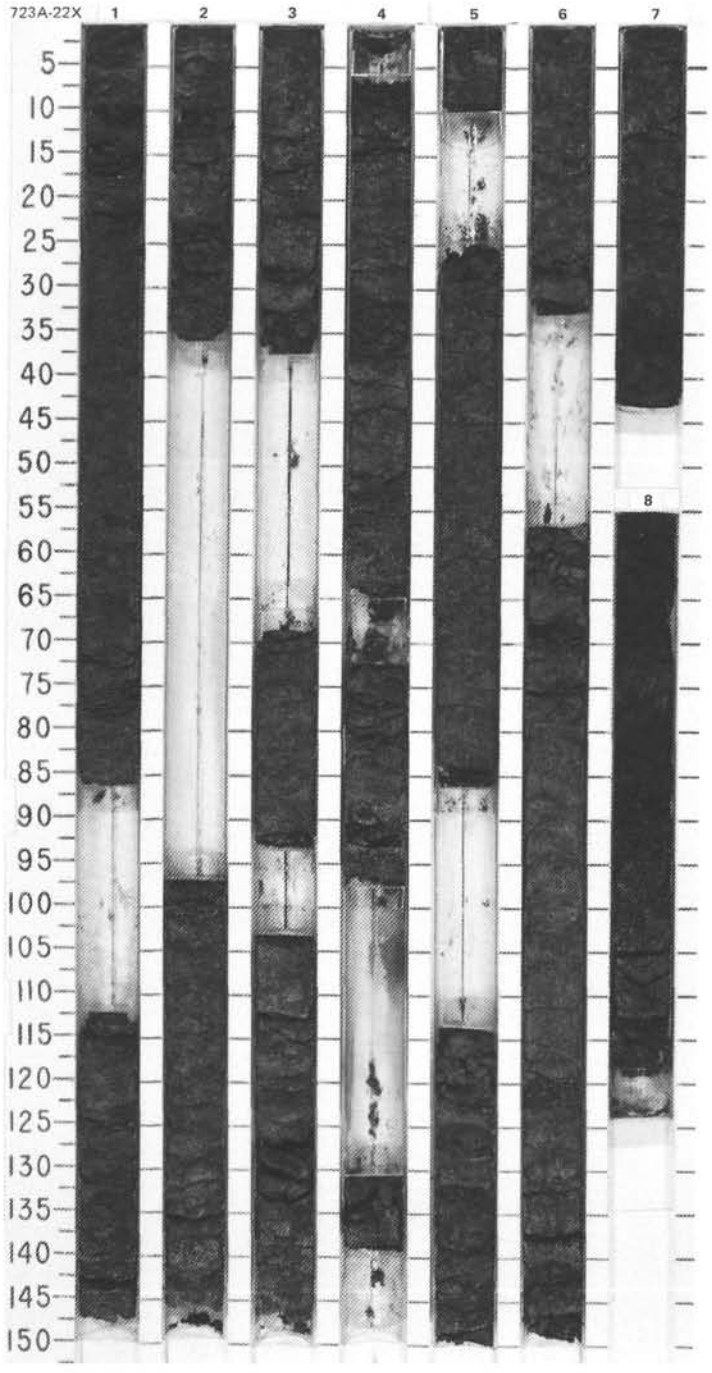
Entire core moderately disturbed by gas expansion (numerous voids). Sediment appears continuous across voids within core.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2) and dark olive gray, faintly mottled. Foraminifers common on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

Minor lithology: Diatom-bearing(?) calcareous clayey silt, dark olive gray (5Y 3/2). Occurs in bottom of Section 7, and in Section 8.

SMEAR SLIDE SUMMARY (%):

	3, 80 D	8, 25 M
TEXTURE:		
Sand	15	15
Silt	55	25
Clay	30	60
COMPOSITION:		
Access. minerals		3
Clay	20	35
Diatoms		3
Dolomite		Tr
Foraminifers	5	2
Volcanic glass		Tr
Inorganic calcite	55	25
Mica		1
Nannofossils	10	25
Quartz	10	6
Radiolarians		Tr
Silicoflagellates		Tr
Sponge spicules	Tr	Tr



SITE 723 HOLE A CORE 23X CORED INTERVAL 1018.6-1028.2 mbsl; 210.8-220.4 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
PLEISTOCENE	*C/M	N22					IC-7.45	1	0.5	VOID 211.65	OOOO	1	
	*A/G	NN19 *Pseudoemiliania lacunosa*				ϕ-69.5 γ-1.87	IC-7.58 DC-3.04 IC-7.17		1.0			1	* OG 1W
	*R/G		F/G* unzoned					2		VOID 211.87		6	
								3				1	
								CC					

LITHOLOGIC DESCRIPTION

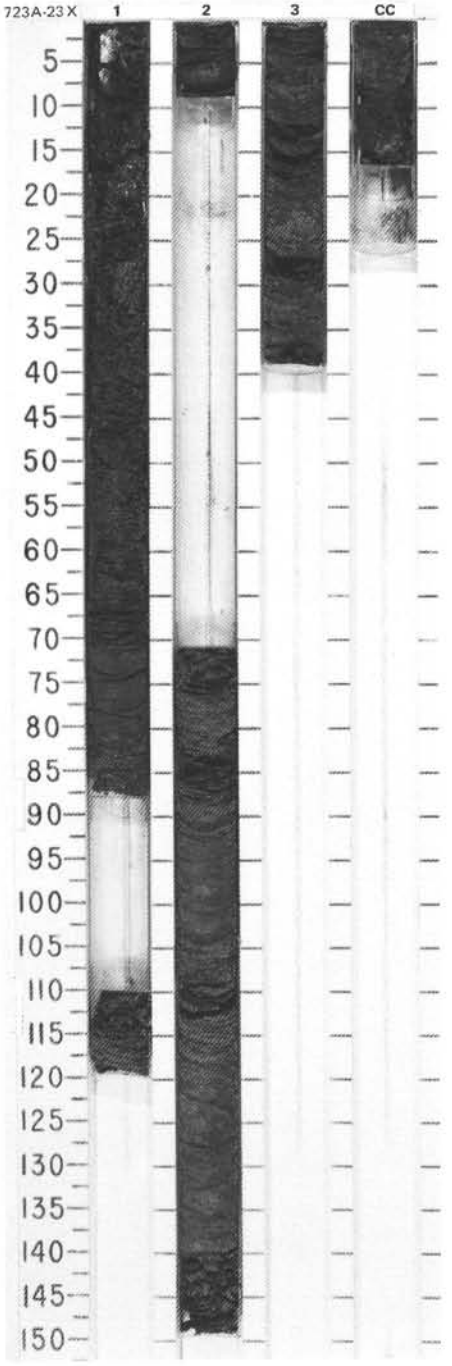
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Section 1, 0-50 cm, soupy, remainder of core slightly disturbed by gas expansion (two large voids). Sediment appears continuous across voids within core.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2) and dark olive gray, faintly mottled. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	1, 122 D
TEXTURE:	
Sand	15
Silt	15
Clay	70
COMPOSITION:	
Access. minerals	1
Clay	30
Dolomite	Tr
Foraminifers	5
Inorganic calcite	22
Mica	1
Nannofossils	40
Quartz	1
Sponge spicules	Tr



SITE 723 HOLE A CORE 24X CORED INTERVAL 1028.2-1037.9 mbsl; 220.4-230.1 mbsf

TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER
- FORAMINIFERS: *C/M N22
- NANNOFOSSILS: *A/G NN19 *Pseudoemiliania lacunosa*
- RADIOLARIANS: *F/G C/M* unzoned*
- DIATOMS

PALEOMAGNETICS: O O

PHYS. PROPERTIES: ● ϕ-54.8 γ-1.77 ● ϕ-67.2 γ-1.51 ϕ-61.3 γ-1.59 ●

CHEMISTRY: ● IC-7.23 ● IC-5.89 OC-4.81 ● IC-6.68 OC-1.22 ● IC-6.12 ● IC-6.82 ● IC-5.47 OC-4.27 ● IC-7.48 IC-7.27 ● OC-5.49

SECTION: 1 2 3 4 5 6 7 8

METERS: 0.5 1.0

GRAPHIC LITHOLOGY: VOID 221.58; VOID 221.9; VOID223.45; VOID224.05; VOID 224.6; VOID226.52; VOID226.81

DRILLING DISTURB.

SED. STRUCTURES: 1 1 1 1 1 1 1 1

SAMPLES: * * * *

LITHOLOGIC DESCRIPTION

FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

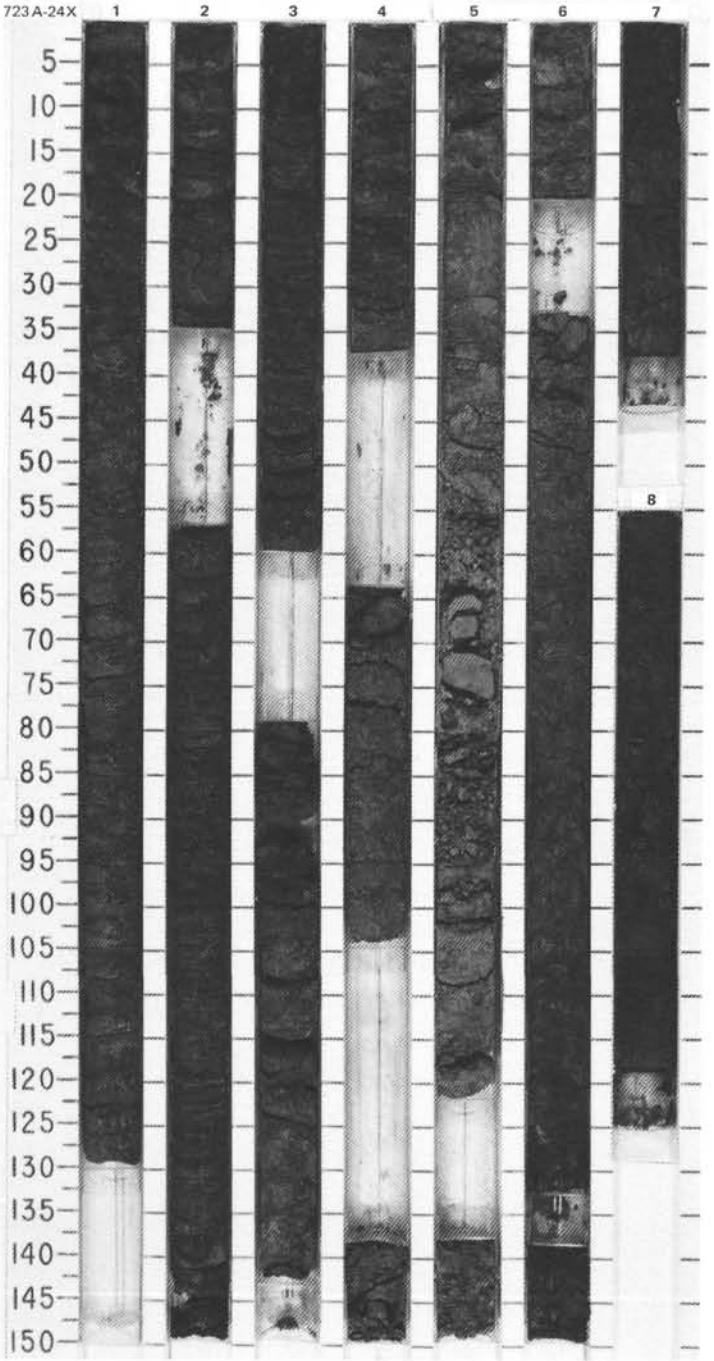
Section 5, 50-95 cm, heavily disturbed, remainder slightly disturbed by gas expansion (numerous voids). Sediment appears continuous across voids within core.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2, 4/3) and dark olive gray (5Y 3/2, 3/1), faintly mottled. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

Minor lithologies:
a. Thin sand layer (quartz and inorganic calcite), Section 3, 10 cm.
b. Lithified section (same composition as core?) with bioturbation structures, Section 5, 64-67 cm.

SMEAR SLIDE SUMMARY (%):

	2, 82 D	3, 10 M	5, 106 D
TEXTURE:			
Sand	10	60	10
Silt	20	20	55
Clay	70	20	35
COMPOSITION:			
Access. minerals	Tr	5	2
Clay	35		20
Diatoms	Tr	Tr	
Dolomite	Tr		
Feldspar		10	
Foraminifers	2		2
Inorganic calcite	25	40	55
Nannofossils	35		15
Quartz	3	45	6
Radiolarians	Tr		
Sponge spicules	Tr		



SITE 723 HOLE A CORE 25X CORED INTERVAL 1037.9-1047.6 mbsl; 230.1-239.8 mbsf

TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER:
- FORAMINIFERS: *F/M; N22
- NANNOFOSSILS: *A/G; NN19 *Pseudoemiliania lacunosa*
- RADIOLARIANS: *Barren
- DIATOMS

PALEOMAGNETICS: O O

PHYS. PROPERTIES: ●ϕ=56.6 γ=1.75; ●ϕ=59.3 γ=1.66

CHEMISTRY: IC=6.07 OC=4.63; ●IC=6.22; IC=6.58 OC=4.60; ●IC=6.64; IC=6.88 OC=4.39; ●IC=6.82; IC=6.90 OC=3.29

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY / DRILLING DISTURB. / SED. STRUCTURES / SAMPLES

VOID 230.32
VOID 230.65
VOID 230.85
VOID 231.55
VOID 231.71
VOID 231.85
VOID 232.21
VOID 232.59
VOID 232.93

LITHOLOGIC DESCRIPTION

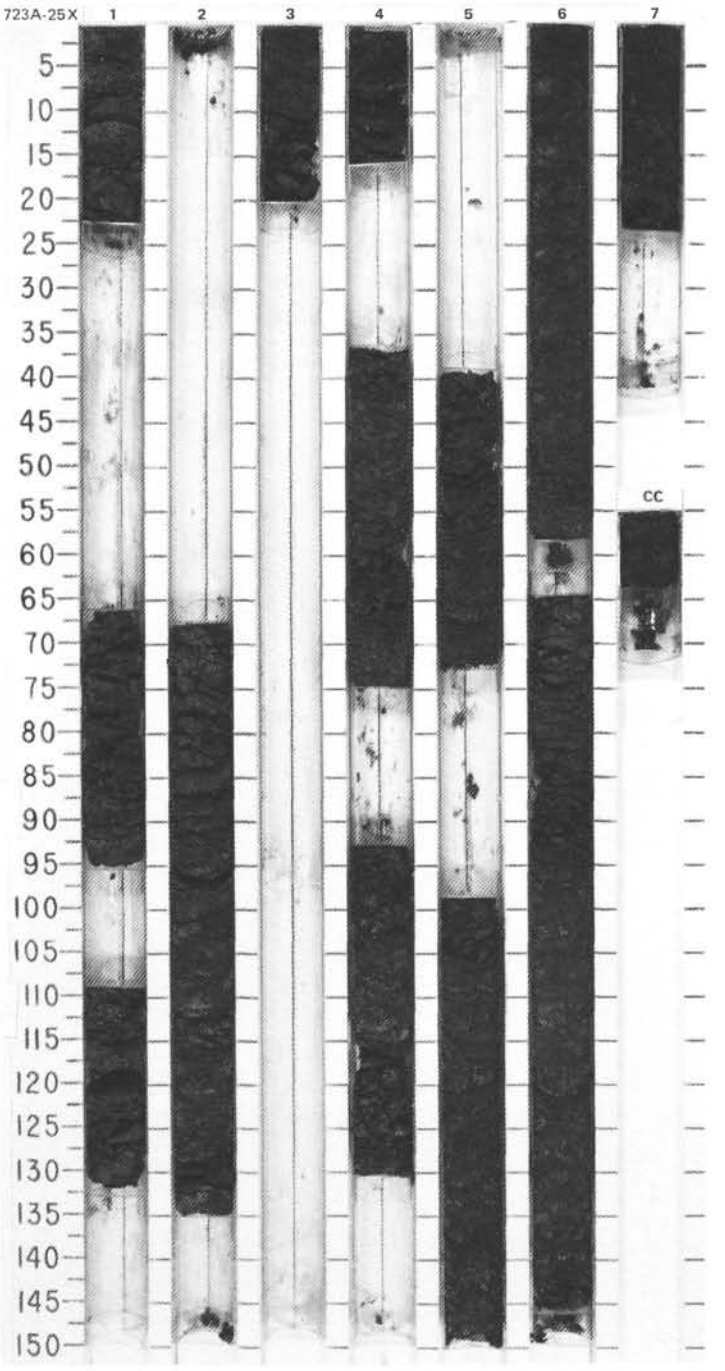
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Sections 1-5 heavily disturbed, remainder slightly disturbed by gas expansion (numerous voids). Sediment appears continuous across voids within core. Sediment crumbles readily.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, dark olive gray (5Y 3/2). Foraminifers common lower in core on less disturbed core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	2, 105 D	5, 63 D
TEXTURE:		
Silt	40	40
Clay	60	60
COMPOSITION:		
Access. minerals	10	10
Bioclasts		Tr
Clay	20	25
Dolomite	Tr	Tr
Foraminifers	5	
Inorganic calcite	15	25
Mica	Tr	
Nannofossils	40	30
Organic debris	Tr	Tr
Quartz	10	10
Sponge spicules		Tr



SITE 723 HOLE A CORE 26X CORED INTERVAL 1047.6-1057.2 mbsl; 239.8-249.4 mbsf

TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS: *F/M N22; NANNOFOSSILS: *A/G NN19 *Pseudoemiliania lacunosa*; RADIOLARIANS: *R/P unzoned; DIATOMS

PALEOMAGNETICS

PHYS. PROPERTIES: ●60.1 γ1.61

CHEMISTRY: ●IC=6.51; ●IC=6.09 OC=5.19; ●IC=5.83; ●IC=5.35 OC=5.85; ●IC=5.81

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID 240.35; VOID240.57; VOID 241.49; VOID 242.89; VOID 243.47; VOID244.69

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: *; OG; IW; *

LITHOLOGIC DESCRIPTION

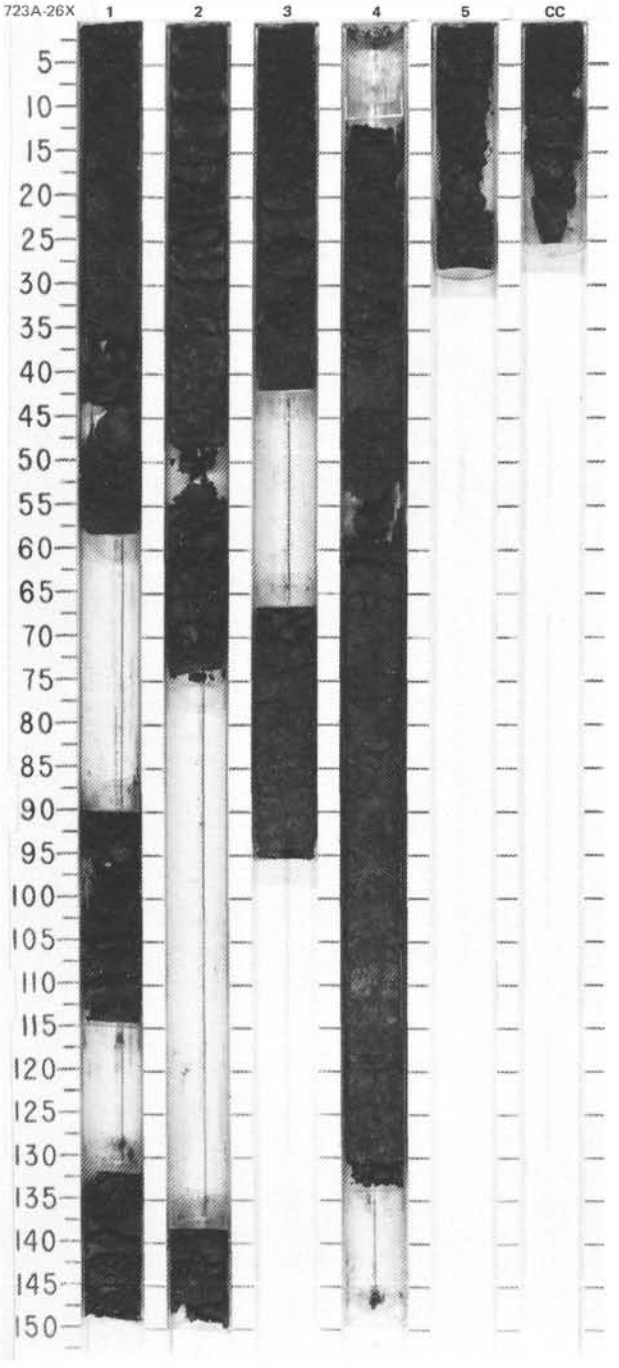
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Entire core (except lower Section 4) heavily disturbed by gas expansion (numerous voids). Sediment appears continuous across voids within core. Crumbles readily, and firm intervals separate into clasts. Section 5 and CC partly full.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, dark olive gray (5Y 3/2). Foraminifers visible on surface lower in core. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	1, 9 D	4, 88 D
TEXTURE:		
Silt	45	40
Clay	55	60
COMPOSITION:		
Access. minerals	10	2
Bioclasts		5
Clay	25	30
Dolomite	Tr	Tr
Foraminifers	5	5
Inorganic calcite	25	15
Nannofossils	20	25
Organic debris	5	5
Pellets	Tr	2
Quartz	10	10
Radiolarians		Tr
Sponge spicules	Tr	1



SITE 723 HOLE A CORE 27X CORED INTERVAL 1057.2-1066.9 mbsl; 249.4-259.1 mbsf

TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS: *F/M; N22 — NANNOFOSSILS: NN19 *Pseudoemiliania lacunosa*; *A/G — RADIOLARIANS: *Barren — DIATOMS

PALEOMAGNETICS: ϕ-56.7 ● γ-1.70 ● ϕ-56.9 γ-1.70

PHYS. PROPERTIES: ● ϕ-53.8 γ-1.7

CHEMISTRY: ● IC= OC= ● IC=6.33 ● IC=6.11 OC=3.84 ● IC=6.12 ● IC=6.09 OC=3.21 ● IC=6.21

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID 30.01; VOID 30.9; VOID 31.9; VOID 31.79; VOID 32.18; VOID 33.03; VOID 33.77; VOID 35.15

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: *

LITHOLOGIC DESCRIPTION

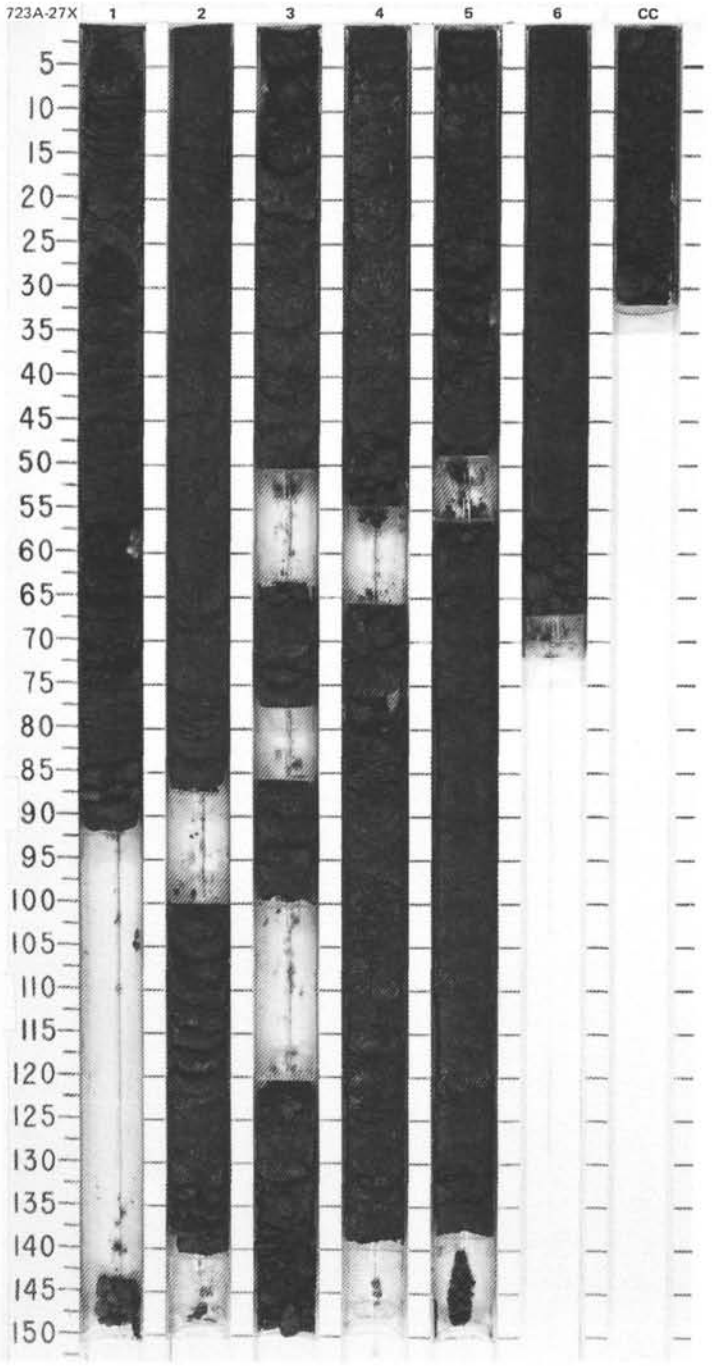
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Entire core moderately to heavily disturbed by gas expansion (numerous voids). Sediment appears continuous across voids within core. Crumbles readily, and firm intervals separate into clasts.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, dark olive gray (5Y 3/2). Foraminifers visible on core face, also mica flakes(?) on Section 6 face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	5, 98 D
TEXTURE:	
Silt	55
Clay	45
COMPOSITION:	
Access. minerals	10
Bioclasts	5
Clay	20
Dolomite	Tr
Foraminifers	Tr
Inorganic calcite	30
Mica	Tr
Nannofossils	20
Quartz	15
Radiolarians	Tr
Sponge spicules	Tr



SITE 723 HOLE A CORE 28X CORED INTERVAL 1066.9-1076.5 mbsl; 259.1-268.7 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
PLEISTOCENE	*F/M N22	*A/G NN19 *Pseudoemiliania lacunosa*	*R/P unzoned		•	• ϕ=55.7 γ=1.76	• IC=4.97	IC=5.47 OC=3.96 • IC=6.37 •	1 2 3 CC	0.5 1.0 VOID 259.7 VOID 260.22 VOID 260.32 VOID 260.82 VOID261.36		0	*

LITHOLOGIC DESCRIPTION

FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

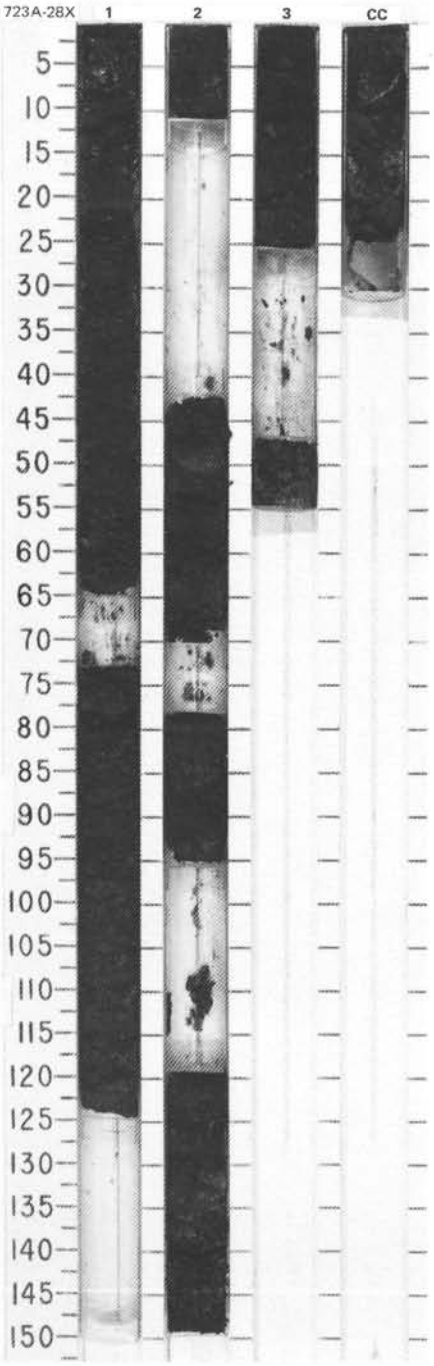
Section 1, 0-10 cm, soupy, remainder moderately disturbed by gas expansion (numerous voids). Sediment appears continuous across voids within core. Crumbles readily, and firm intervals separate into clasts.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, dark olive gray (5Y 3/2). Foraminifers present on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

Minor lithology: Limestone, dark olive gray (5Y 3/2) with well preserved foraminifers, found in bottom of CC.

SMEAR SLIDE SUMMARY (%):

	2, 60 D	CC, 25 D	CC, 25 D
TEXTURE:			
Sand		20	15
Silt	35	20	55
Clay	65	60	30
COMPOSITION:			
Access. minerals	10		
Cement			15
Clay	15	40	30
Dolomite	Tr		35
Foraminifers	5	20	20
Inorganic calcite	25		
Nannofossils	20		
Organic debris	5	Tr	
Quartz	20		
Spar cement		40	



SITE 723 HOLE A CORE 29X CORED INTERVAL 1076.5-1086.1 mbsl; 268.7-278.3 mbsf

TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER:
- FORAMINIFERS: * R/M
- NANNOFOSSILS: N22; * A/M; NN19 *Pseudoemiliania lacunosa*
- RADIOLARIANS: * F/G; F/M* unzoned
- DIATOMS

PALEOMAGNETICS

PHYS. PROPERTIES: ●ϕ=60.2 γ=1.63; ●ϕ=56.8 γ=1.71; ●ϕ=53.5 γ=1.73

CHEMISTRY: ●IC=3.53 OC=4.39; ●IC=5.65; ●IC=7.18 OC=2.80; ●IC=5.85; ●IC=7.75 OC=4.79; ●IC=5.45; ●IC=5.63 OC=3.16

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID 269.44; VOID 269.69; VOID 279.62; VOID279.76; VOID 280.52; VOID281.68; VOID283.13; VOID283.62

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: *; OG; IW; *; *

LITHOLOGIC DESCRIPTION

FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

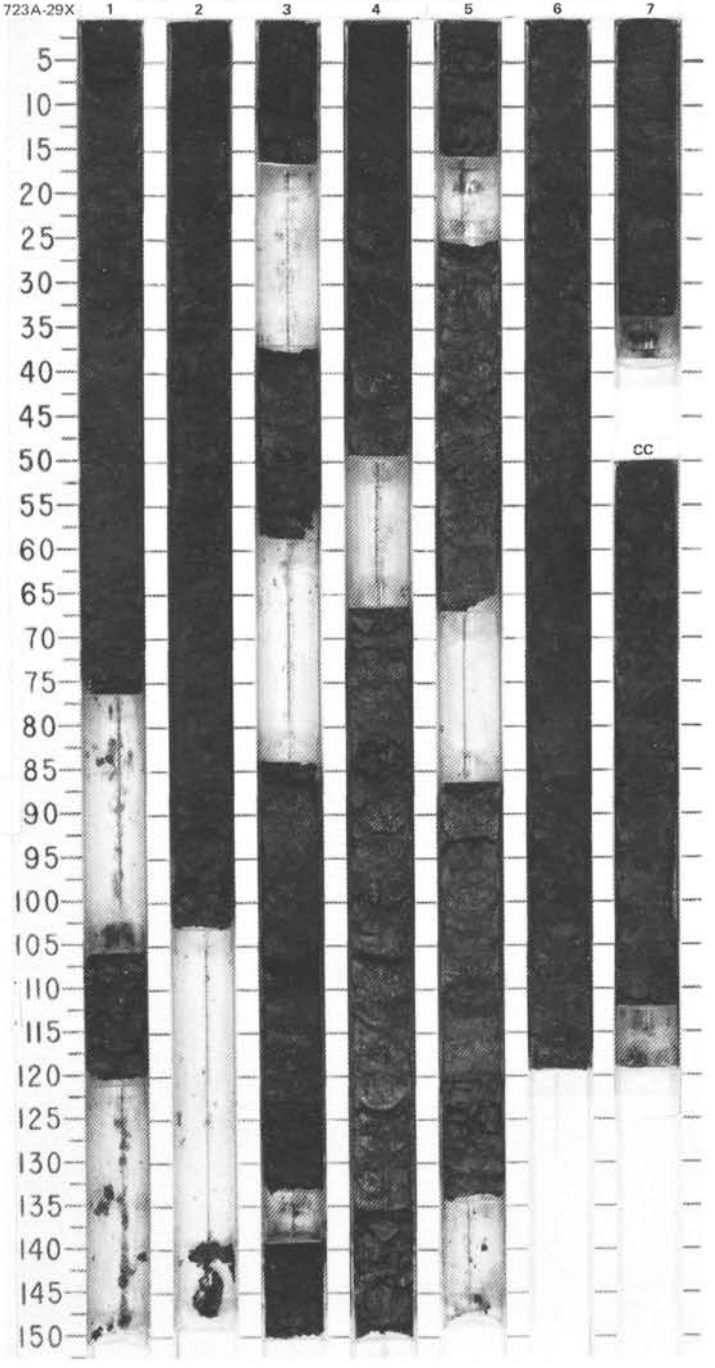
Entire core moderately disturbed by gas expansion (numerous voids). Sediment appears continuous across voids within core. Crumbles readily, and firm intervals separate into clasts.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2) and dark olive gray (5Y 3/2, 3/1). Foraminifers visible on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

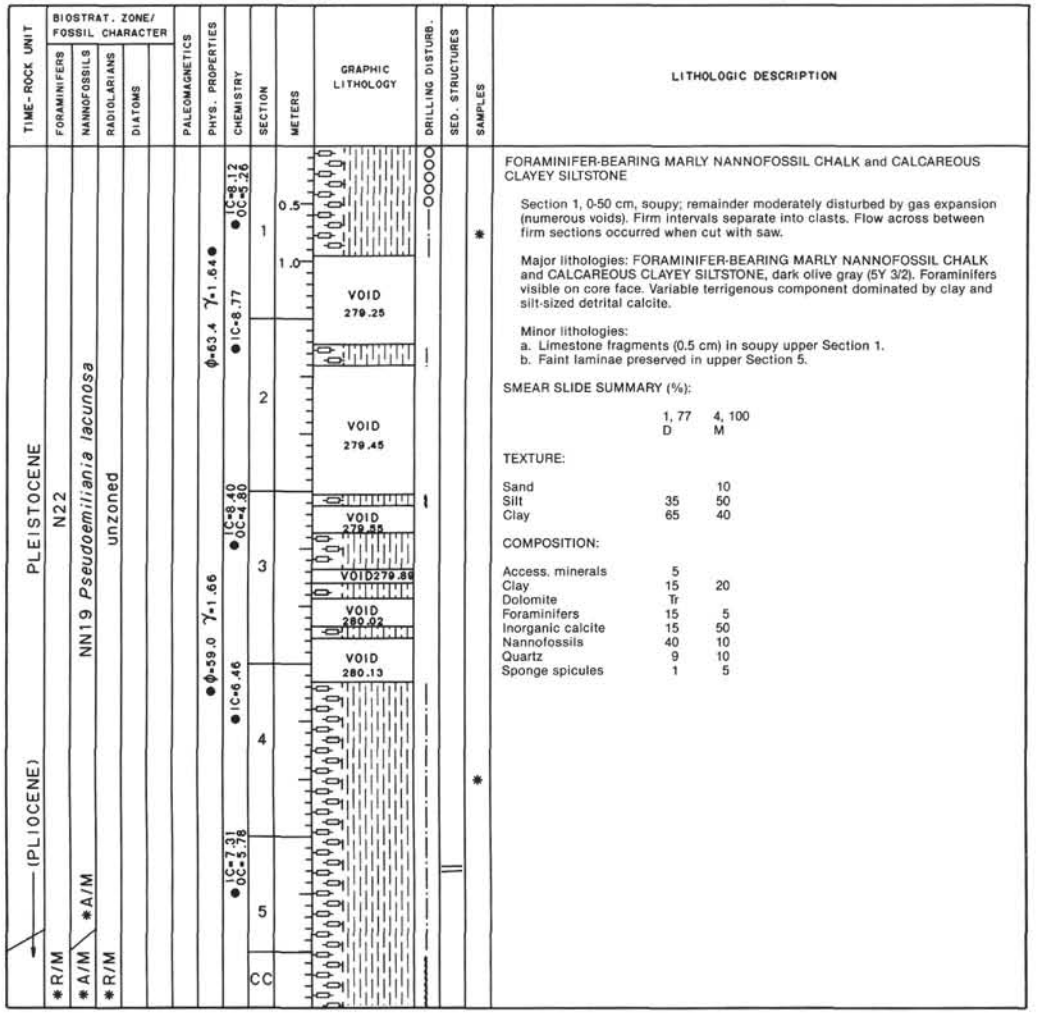
Minor lithology: Parallel laminae preserved in firmer intervals, lower Section 6 and Section 7. Individual light and dark layers are 0.1-1.0 mm thick. Smear slide from one light layer is muddy diatomaceous ooze.

SMEAR SLIDE SUMMARY (%):

	1, 11 D	4, 118 D	7, 13 M
TEXTURE:			
Silt	60	55	75
Clay	40	45	25
COMPOSITION:			
Access. minerals	10	9	2
Clay	28	25	20
Diatoms			60
Dolomite	Tr	Tr	Tr
Foraminifers	Tr	5	Tr
Volcanic glass		Tr	
Inorganic calcite	25	25	8
Nannofossils	10	20	5
Organic debris	4	5	Tr
Pellets	3		
Quartz	20	10	5
Radiolarians		Tr	
Silicoflagellates			Tr
Sponge spicules	Tr	1	Tr



SITE 723 HOLE A CORE 30X CORED INTERVAL 1086.1-1095.7 mbsl; 278.3-287.9 mbsf



LITHOLOGIC DESCRIPTION

FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE

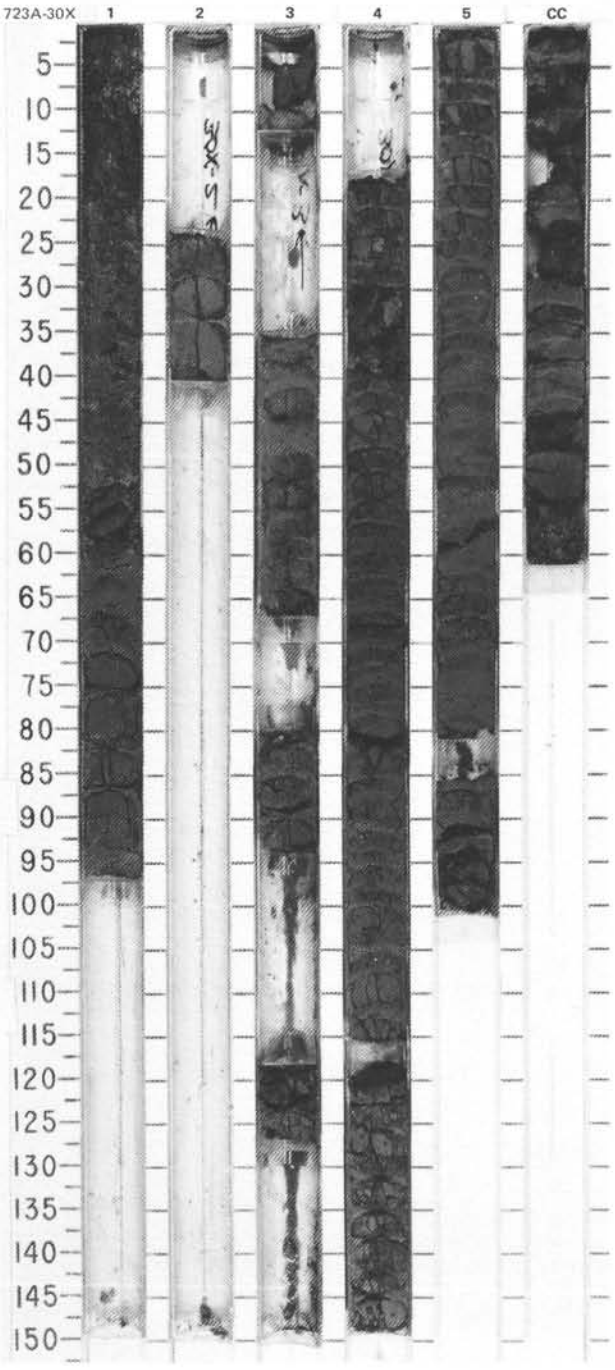
Section 1, 0-50 cm, soupy; remainder moderately disturbed by gas expansion (numerous voids). Firm intervals separate into clasts. Flow across between firm sections occurred when cut with saw.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE, dark olive gray (5Y 3/2). Foraminifers visible on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

Minor lithologies:
a. Limestone fragments (0.5 cm) in soupy upper Section 1.
b. Faint laminae preserved in upper Section 5.

SMEAR SLIDE SUMMARY (%):

	1, 77 D	4, 100 M
TEXTURE:		
Sand		10
Silt	35	50
Clay	65	40
COMPOSITION:		
Access. minerals	5	
Clay	15	20
Dolomite	Tr	
Foraminifers	15	5
Inorganic calcite	15	50
Nannofossils	40	10
Quartz	9	10
Sponge spicules	1	5



SITE 723 HOLE A CORE 31X CORED INTERVAL 1095.7-1105.3 mbsl; 287.9-297.5 mbsf

TIME-ROCK UNIT: PLIOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER:
- FORAMINIFERS: *R/M
- NANNOFOSSILS: *A/M — N22 / NN19 *Pseudoemiliania lacunosa* / unzoned
- RADIOLARIANS: *R/G
- DIATOMS

PALEOMAGNETICS

PHYS. PROPERTIES: ●ϕ-54.5 γ-1.72 ●ϕ-56.2 γ-1.69 ●ϕ-58.8 γ-1.67

CHEMISTRY: ●IC-6.76 OC-2.37 ●IC-7.48 ●IC-7.75 ●IC-7.15 OC-4.75 ●IC-8.21 ●IC-7.17 OC-5.52

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID 293.49; VOID 293.30; VOID 292.92; VOID 292.67; VOID 292.41; VOID 292.43; VOID 291.44; VOID 291.19; VOID 288.24; VOID 288.09; VOID 287.99

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: *

LITHOLOGIC DESCRIPTION

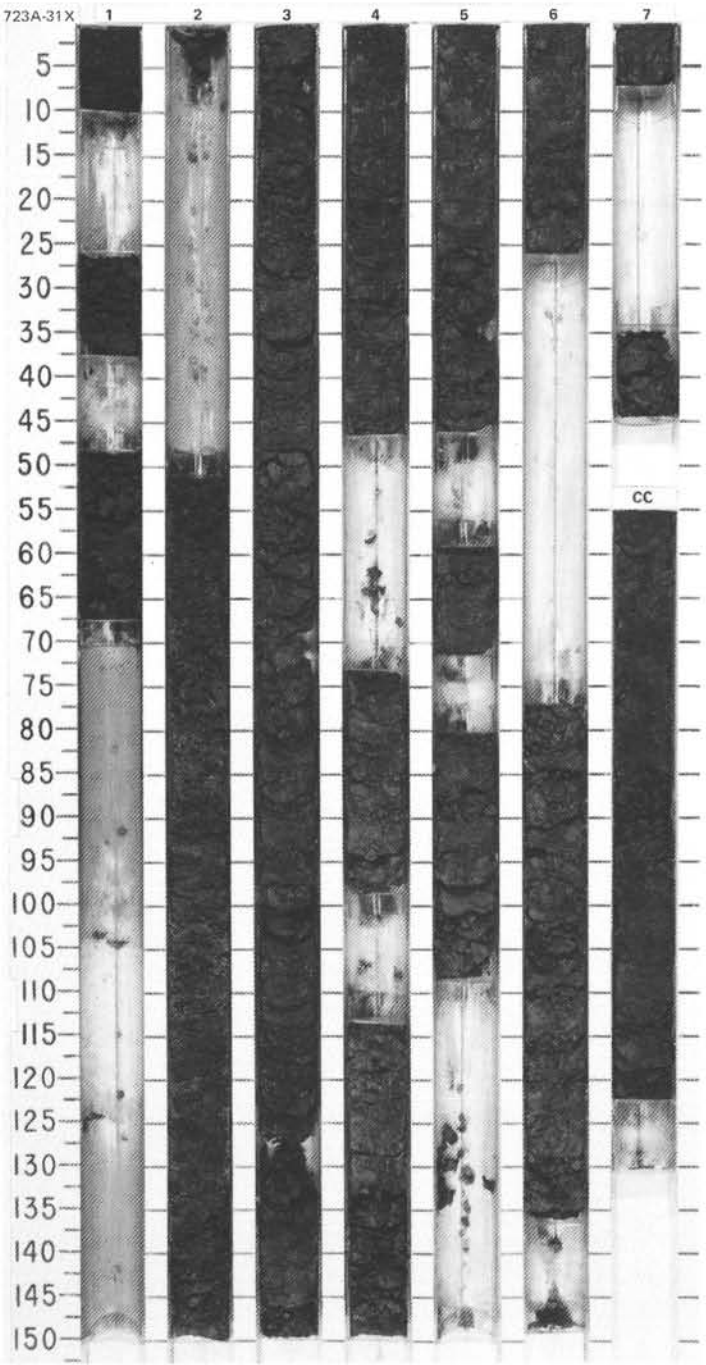
FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE

Entire core heavily disturbed by gas expansion (numerous voids). Crumbles readily, and firm intervals separate into clasts. Cut with wire in order to preserve laminae. Section 2 soupy, missing sediment(?).

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE, dark olive gray (5Y 3/2). Foraminifers present on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	2, 65 D	4, 93 D
TEXTURE:		
Silt	40	30
Clay	60	70
COMPOSITION:		
Clay	29	30
Foraminifers	5	3
Inorganic calcite	29	14
Mica	3	
Nannofossils	14	50
Organic debris	3	
Pellets	5	
Quartz	9	3
Sponge spicules	3	Tr



SITE 723 HOLE A CORE 32X CORED INTERVAL 1105.3-1114.9 mbsl; 297.5-307.1 mbsf

TIME-ROCK UNIT: PLIOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER:
- FORAMINIFERS: N19 - N21
- NANNOFOSSILS: NN19 *Pseudoemiliania lacunosa*
- RADIOLARIANS: F/P*unzoned
- DIATOMS: F/G
- PALEOMAGNETICS: *R/M; *A/M-P; O
- PHYS. PROPERTIES: ●ϕ-55.6 γ-1.68; ●ϕ-56.0 γ-1.73; ●ϕ-58.6 γ-1.72
- CHEMISTRY: ●IC-7.39; ●IC-7.30 OC-3.08; ●IC-8.07; ●IC-7.28; ●IC-6.44; ●IC-6.17 OC-5.34; ●IC-6.53

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

GRAPHIC LITHOLOGY: 0.5; 1.0; VOID 299.45; VOID 299.83

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: *; *; OG; IW

LITHOLOGIC DESCRIPTION

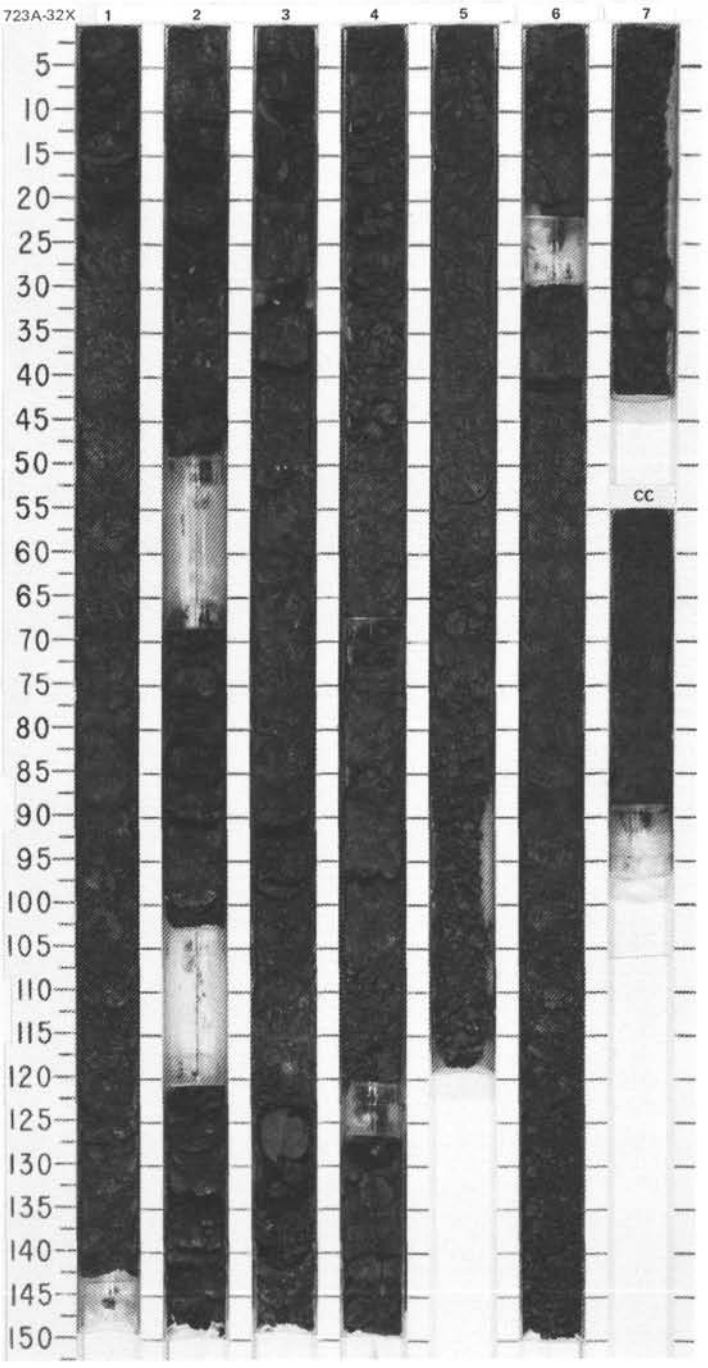
FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE

Sections 3, top, Section 4, 10-15 cm, and Section 5, 86-120 cm, very disturbed, remainder moderately disturbed by gas expansion and drilling. Numerous voids. Sediment appears continuous across voids within core, but it becomes more difficult to identify drilling disturbance. Crumbles readily, and firm intervals separate into clasts. Cut with wire in order to preserve laminae.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE, olive gray (5Y 4/2, 4/3) and dark olive gray (5Y 3/2, 3/1). Foraminifers present on core face, some shell fragments. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	1, 19 M	4, 58 D
TEXTURE:		
Silt	70	30
Clay	30	70
COMPOSITION:		
Access. minerals	10	
Clay	16	35
Diatoms	2	
Dolomite	5	
Foraminifers	5	8
Inorganic calcite	15	25
Mica	Tr	
Nannofossils	15	25
Organic debris	5	
Pellets	5	
Quartz	20	7
Sponge spicules	2	



SITE 723 HOLE A CORE 33X CORED INTERVAL 1114.9-1124.5 mbsl; 307.1-316.7 mbsf

TIME-ROCK UNIT: PLIOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER:
- FORAMINIFERS: *R/G; N19 - N21
- NANNOFOSSILS: *A/M; NN19 *Pseudoemiliania lacunosa*
- RADIOLARIANS: *C/G; unzoned *C/M
- DIATOMS

PALEOMAGNETICS: O

PHYS. PROPERTIES: ● ϕ-58.9 γ-1.83; ● ϕ-57.0 γ-1.66

CHEMISTRY: ● IC-0.55 ● IC-5.60 ● IC-5.72 ● IC-0.55 OC-4.66 ● IC-5.72 ● IC-7.63 OC-5.84 ● IC-5.12

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID 307.86; VOID 308.49; VOID 312.46; VOID 314.35

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: * * * *

LITHOLOGIC DESCRIPTION

FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE

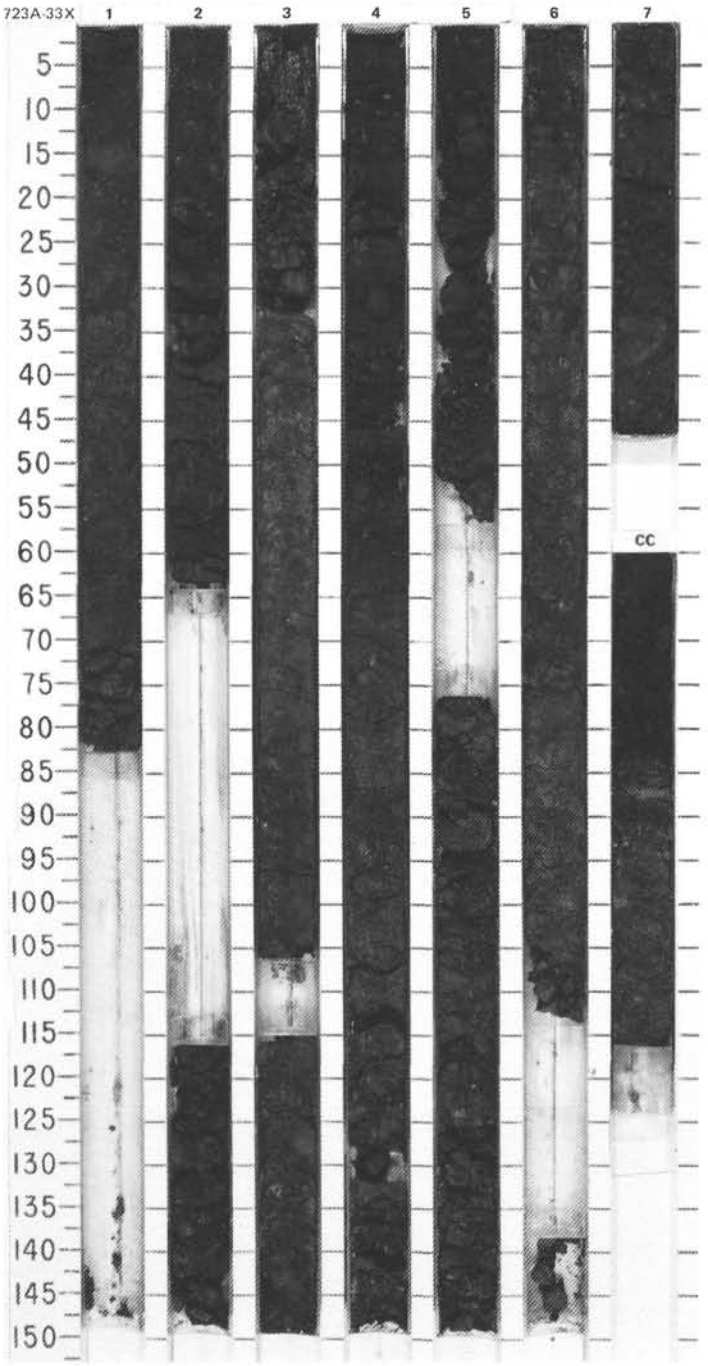
Entire core moderately disturbed by gas expansion (numerous voids). Sediment appears continuous across voids within core. Crumbles readily, and firm intervals separate into clasts. Cut with wire in order to preserve laminae.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE, dark olive gray (5Y 3/2, 3/1). Foraminifers present on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

Minor lithology: Parallel laminae, individual light and dark layers 0.1-1.0 mm thick. Light layers are composed of nannofossils or diatoms, usually dominated by a single species. Section 4, 134-143 cm.

SMEAR SLIDE SUMMARY (%):

	1, 50 D	4, 140 M	CC, 27 M
TEXTURE:			
Silt	40	60	40
Clay	60	40	60
COMPOSITION:			
Access. minerals	5	Tr	2
Clay	15	10	8
Diatoms	Tr	10	30
Dolomite		3	Tr
Foraminifers	5	10	Tr
Inorganic calcite	20	17	5
Nannofossils	45	40	50
Organic debris	Tr	Tr	
Quartz	10	10	5
Silicoflagellates			Tr
Sponge spicules	Tr	Tr	Tr



SITE 723 HOLE A CORE 34X CORED INTERVAL 1124.5-1129.3 mbsl; 316.7-321.5 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	LITHOLOGIC DESCRIPTION
PLIOCENE	R/M*	A/M*	C/M*				IC=0.56 OC=4.13	1 CC	0.5					FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE

N19 - N21

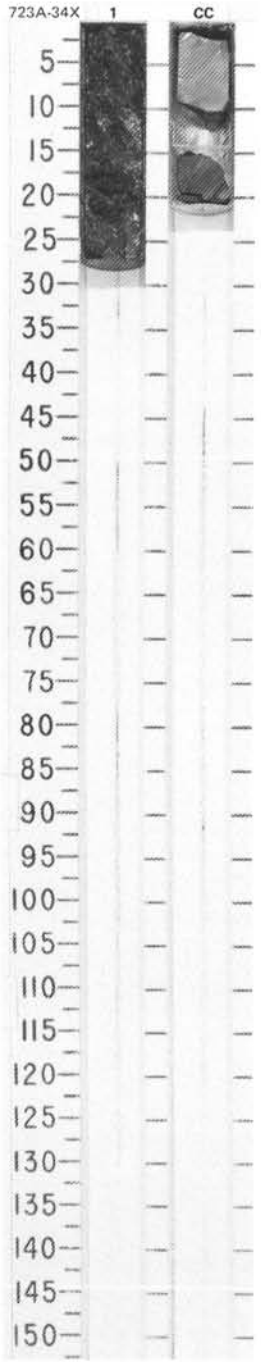
NN19 *Pseudoemiliania lacunosa*

unzoned

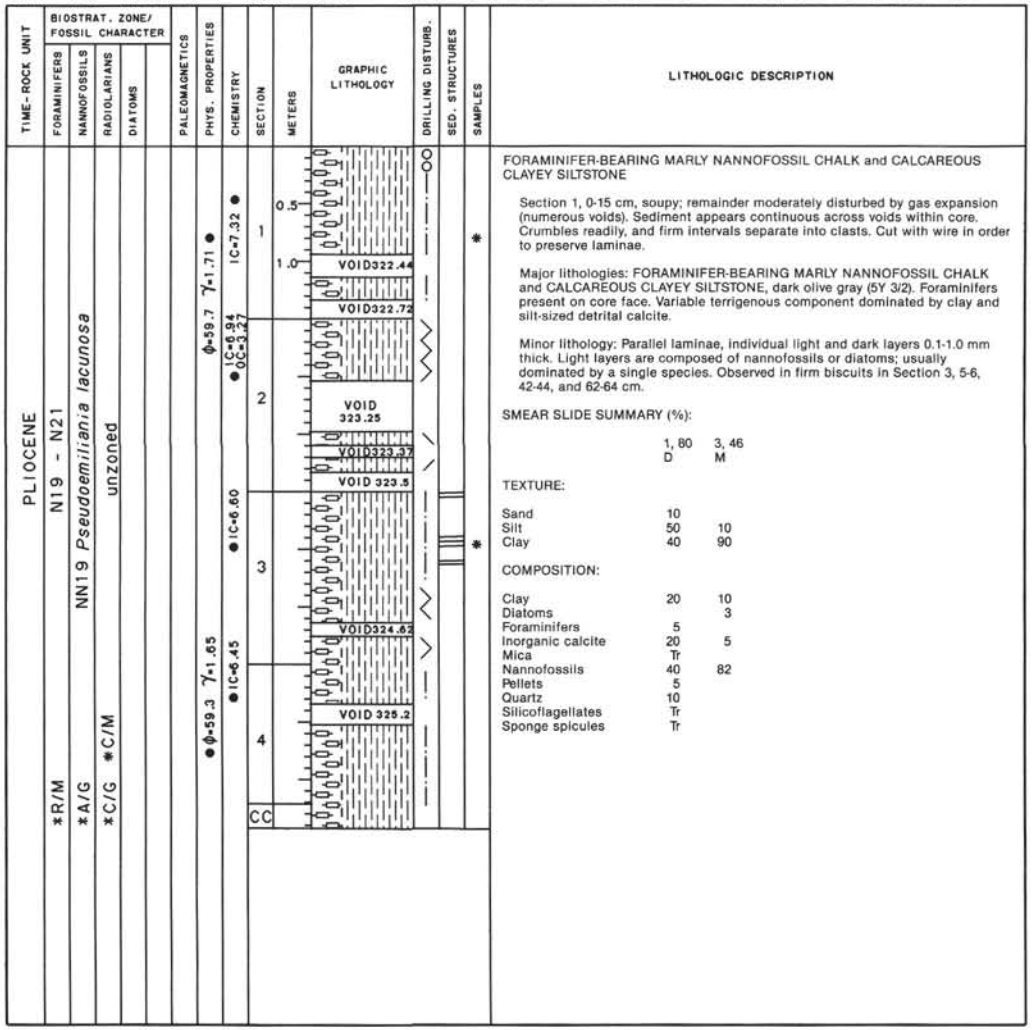
Section 1 is soupy and completely disturbed; CC contains two clasts.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE, dark olive gray (5Y 3/2). Variable terrigenous component dominated by clay and silt-sized detrital calcite.

Minor lithology: Limestone, dark olive gray (5Y 3/2), with abundant foraminifers, found in CC.



SITE 723 HOLE A CORE 35X CORED INTERVAL 1129.3-1134.1 mbsl; 321.5-326.3 mbsf



LITHOLOGIC DESCRIPTION

FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE

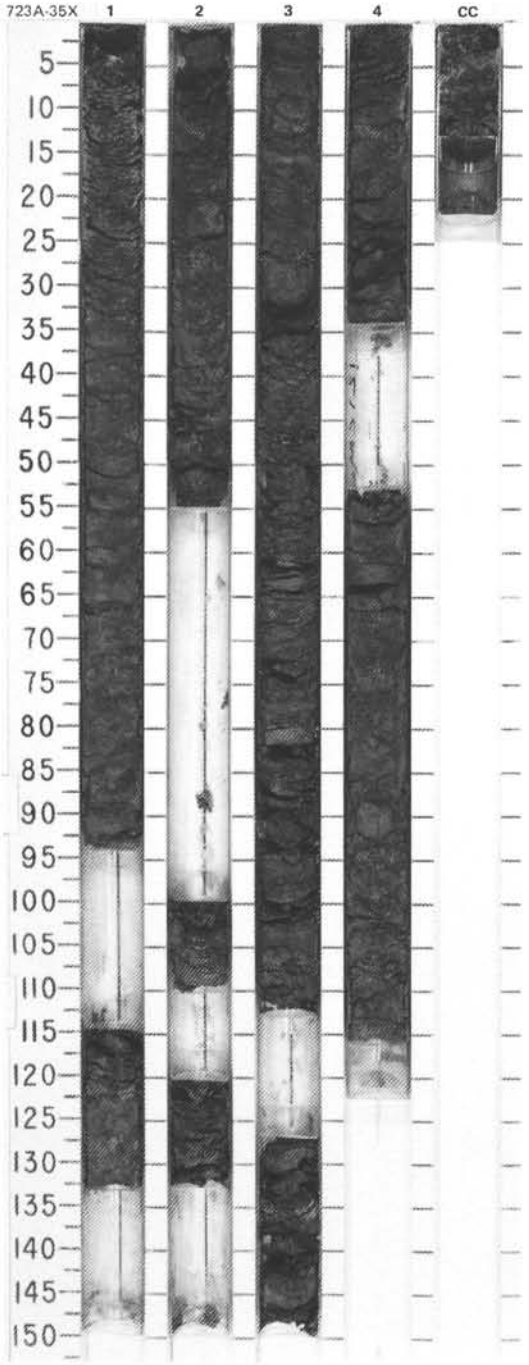
Section 1, 0-15 cm, soupy; remainder moderately disturbed by gas expansion (numerous voids). Sediment appears continuous across voids within core. Crumbles readily, and firm intervals separate into clasts. Cut with wire in order to preserve laminae.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE, dark olive gray (5Y 3/2). Foraminifers present on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

Minor lithology: Parallel laminae, individual light and dark layers 0.1-1.0 mm thick. Light layers are composed of nannofossils or diatoms; usually dominated by a single species. Observed in firm biscuits in Section 3, 5-6, 42-44, and 62-64 cm.

SMEAR SLIDE SUMMARY (%):

	1, 80 D	3, 46 M
TEXTURE:		
Sand	10	
Silt	50	10
Clay	40	90
COMPOSITION:		
Clay	20	10
Diatoms		3
Foraminifers	5	
Inorganic calcite	20	5
Mica	Tr	
Nannofossils	40	82
Pellets	5	
Quartz	10	
Silicoflagellates	Tr	
Sponge spicules	Tr	



SITE 723 HOLE A CORE 36X CORED INTERVAL 1134.1-1143.6 mbsl; 326.3-335.8 mbsf

TIME-ROCK UNIT: PLIOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER:
- FORAMINIFERS: N19 - N21
- NANNOFOSSILS: NN19 *Pseudoemiliania lacunosa* / NN18 *Discoaster brouweri*
- RADIOLARIANS: *Pterocanium prismatium*
- DIATOMS:

PALEOMAGNETICS: *R/M, *A/M, *C/G

PHYS. PROPERTIES: ●ϕ-61.7 γ-1.62; ●ϕ-60.9 γ-1.67

CHEMISTRY: ●IC-6.73 OC-4.69; ●IC-6.08; ●IC-4.58 OC-3.77; ●IC-8.45; ●IC-5.77 OC-3.32; ●IC-7.88

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID 327.38; VOID 328.96; VOID; VOID 329.45; VOID 330.56; VOID 332.26; VOID 333.3; VOID

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: OG, IW

LITHOLOGIC DESCRIPTION

FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE

Section 1, 0-115 cm, is soupy and half full. Remainder of core is moderately disturbed by gas expansion (numerous voids). Sediment appears continuous across voids within core. Crumbles readily, and firm intervals separate into clasts. Cut with wire in order to preserve laminae.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE, dark olive gray (5Y 3/2, 3/1). Foraminifers present on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

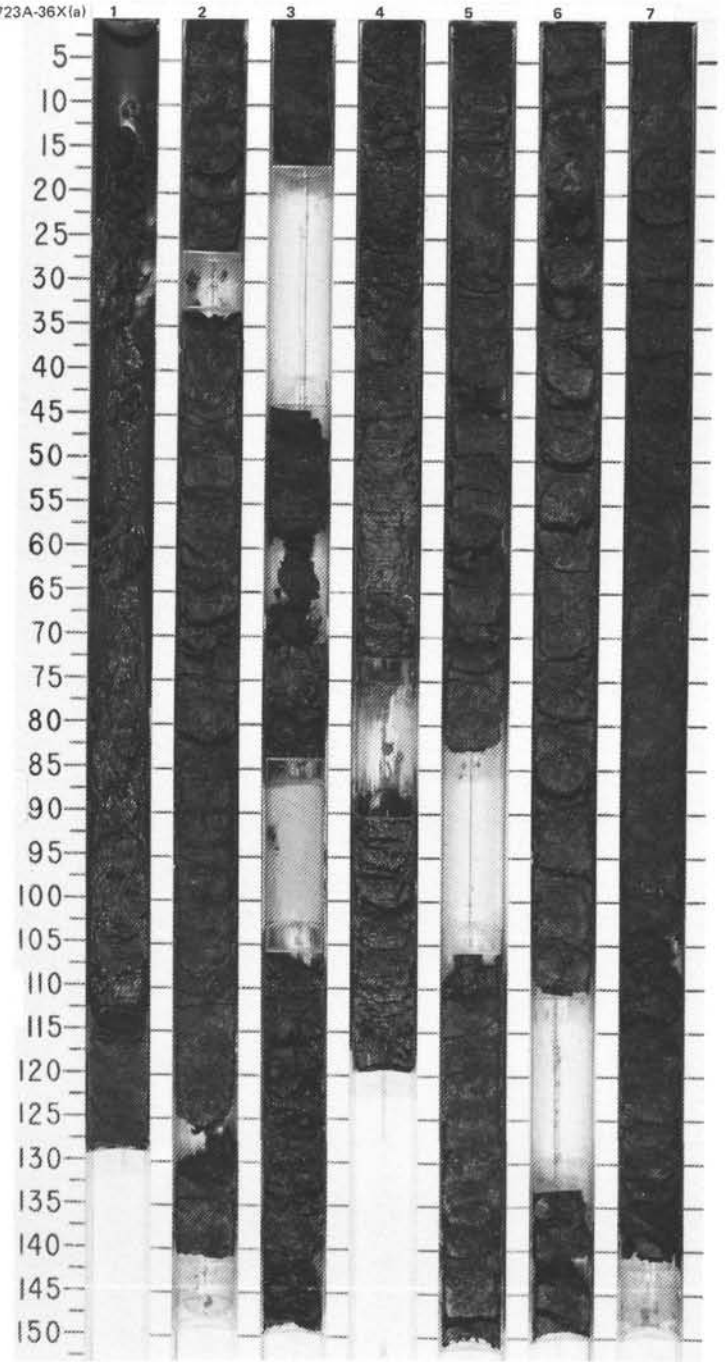
Minor lithology: Parallel laminae, individual light and dark layers 0.1-1.0 mm thick. Light layers are composed of nannofossils or diatoms; usually dominated by a single species. Observed in Section 3, 72-150 cm, throughout Section 4, and Section 6, 24-31 cm. Some white layers are cohesive, cemented(?), and stick out as horizontal white flakes.

SMEAR SLIDE SUMMARY (%):

	3, 139 M	6, 25 D
TEXTURE:		
Silt	5	20
Clay	95	80
COMPOSITION:		
Clay	10	33
Diatoms	79	10
Foraminifers	3	5
Inorganic calcite	3	6
Mica		Tr
Nannofossils	5	40
Pellets		3
Quartz		3

(Con't.)

723A-36X(a) 1 2 3 4 5 6 7



SITE 723 HOLE A CORE 36X CORED INTERVAL 1134.1-1143.6 mbsl; 326.3-335.8 mbsf

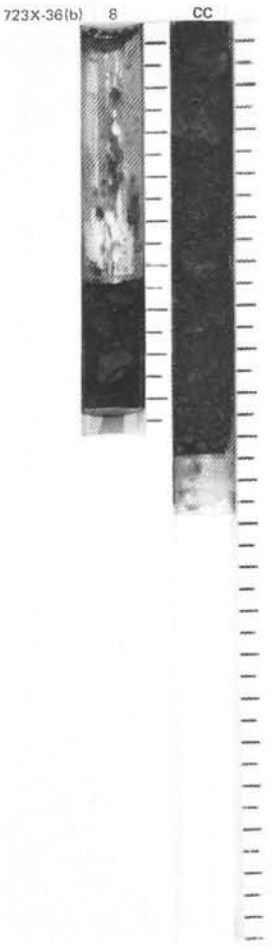
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
								8		VOID				(Con't.)
								CC	0.5					

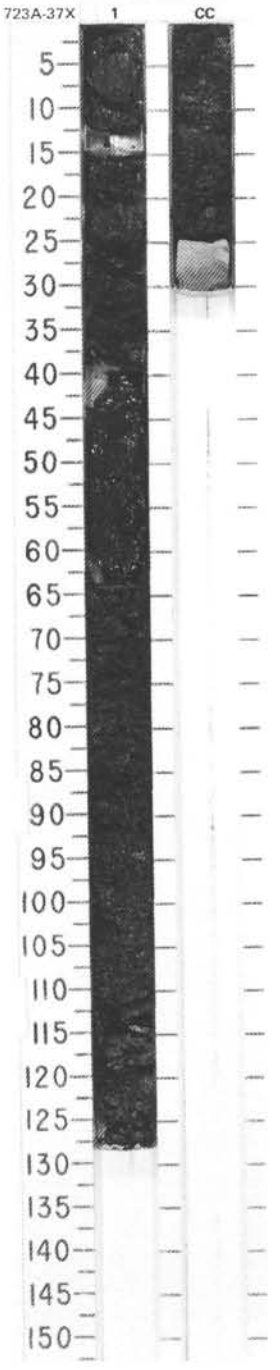
SITE 723 HOLE A CORE 37X CORED INTERVAL 1143.6-1153.2 mbsl; 335.8-345.4 mbsf

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
PLIOCENE	R/M *	A/M *	C/G *		•	ϕ=65.5 γ=1.54 •	IC=5.89 OC=5.99 •	1	0.5				*	FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE
N19 - N21									1.0					Section 1 is soupy and heavily disturbed, CC contains clast.
NN18 *Discoaster brouweri*								CC						Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE, olive gray (5Y 4/2, 4/3) and dark olive gray (5Y 3/2, 3/1); black (5Y 2.5/1) in CC, at 0-2, 4, 6, and 12 cm. Foraminifers present on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.
Pterocanium prismatium														Minor lithology: a. Parallel laminae, individual light and dark layers 0.1-1.0 mm thick. Light colored layers are composed of nannofossils or diatoms; usually dominated by a single species. Laminae are intermittent and indistinct. b. Fine-grained limestone, dolomite concretions (?), olive gray (5Y 4/2, 5/2). Contains foraminifers. Found in end of CC.

SMEAR SLIDE SUMMARY (%):

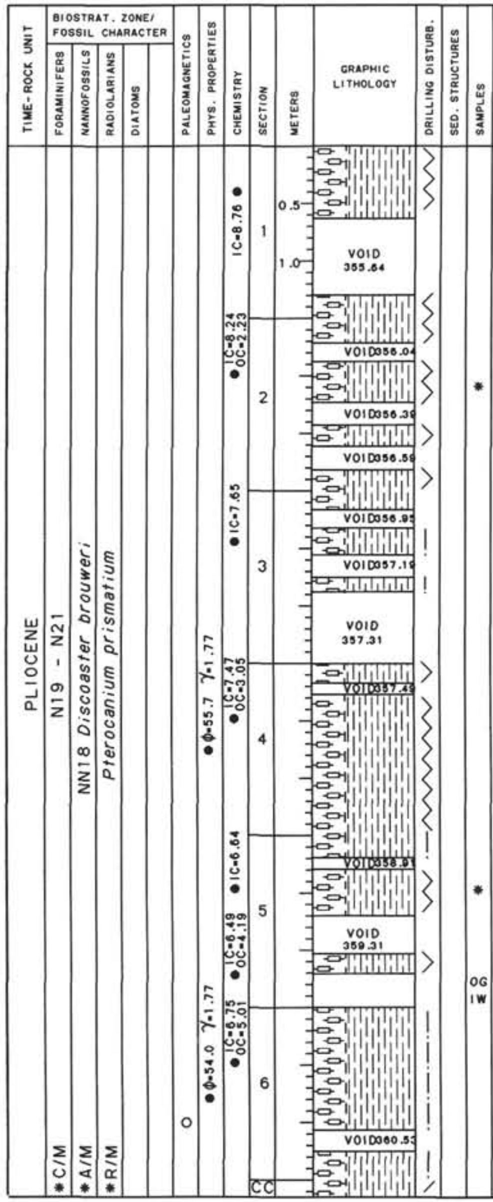
	1, 30 D	CC, 25 M	CC, 25 M
TEXTURE:			
Sand	5	40	10
Silt	45	10	70
Clay	50	50	20
COMPOSITION:			
Cement	20		20
Clay	35	25	30
Diatoms	5	8	
Dolomite	30		30
Foraminifers	Tr	10	20
Inorganic calcite	20		
Nannofossils	15		
Pellets	15		
Quartz	10	5	
Radiolarians	Tr		
Spar cement		50	
Sponge spicules		2	





CORE 117–723A–38X NO RECOVERY

SITE 723 HOLE A CORE 39X CORED INTERVAL 1162.8-1172.5 mbsl; 355.0-364.7 mbsf



LITHOLOGIC DESCRIPTION

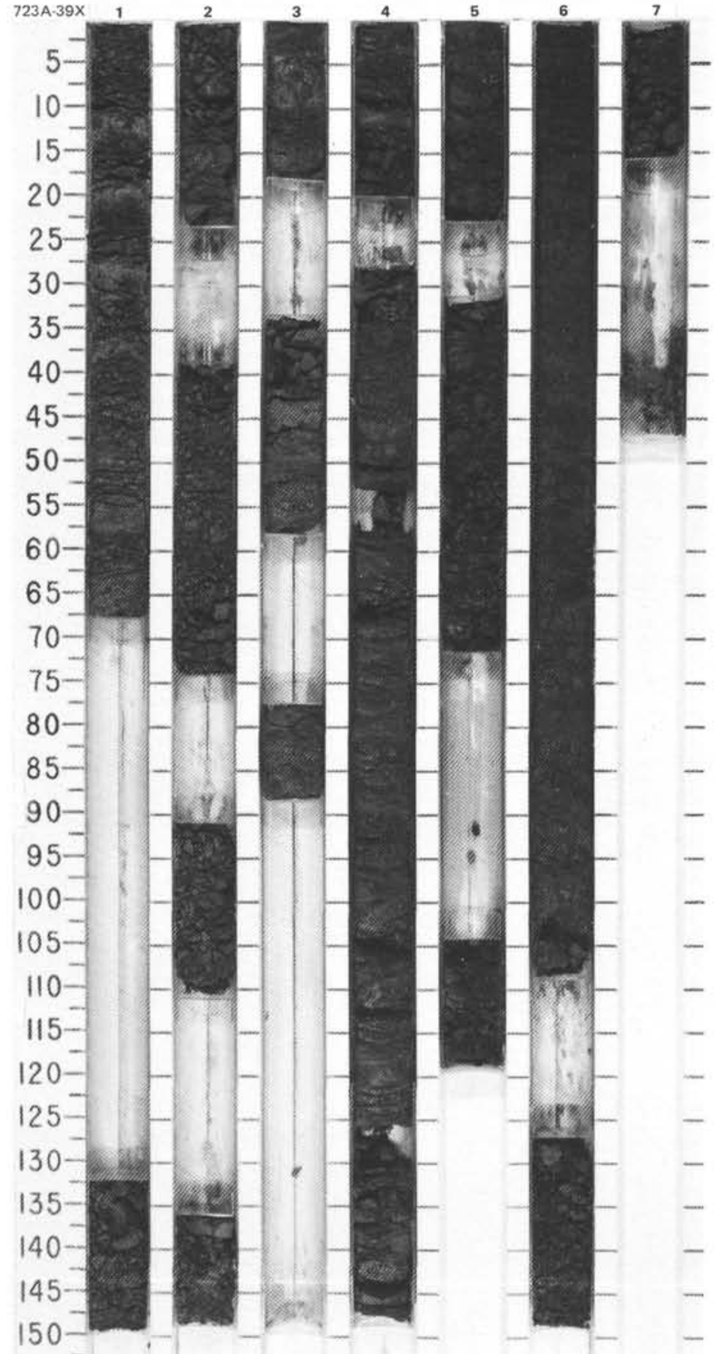
FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE

Entire core moderately to heavily disturbed by gas expansion (numerous voids) Crumbles readily, and firm intervals separate into clasts. Cut with wire in order to preserve laminae.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and *CALCAREOUS CLAYEY SILTSTONE*, dark olive gray (5Y 3/2). Foraminifers present on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	2, 58 D	5, 47 D
TEXTURE:		
Silt	40	50
Clay	60	50
COMPOSITION:		
Access. minerals		4
Clay	20	35
Foraminifers	3	5
Gypsum		Tr
Inorganic calcite	45	25
Mica	3	3
Nannofossils	24	25
Pyrite		Tr
Quartz	5	3



SITE 723 HOLE A CORE 40X CORED INTERVAL 1172.5-1182.1 mbsl; 364.7-374.3 mbsf

TIME-ROCK UNIT: PLIOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS *R/M; NANNOFOSSILS N19 - N21 *A/M; RADIOLARIANS NN18 *Discoaster brouweri* *F/G; DIATOMS F/P* *Pterocanium prismatium*

PALEOMAGNETICS

PHYS. PROPERTIES: ●ϕ=55.1 γ=1.72; ●ϕ=56.3 γ=1.66

CHEMISTRY: IC=5.09 ●; ●IC=5.88; ●IC=5.26 OC=5.45; ●IC=7.26; ●IC=3.68 OC=3.17; ●IC=8.81

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID 364.92; VOID 366.27; VOID 366.32; VOID 366.62; VOID 366.87; VOID 366.96; VOID 367.32; VOID 367.44; VOID 368.27; VOID 369.67

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: *

LITHOLOGIC DESCRIPTION

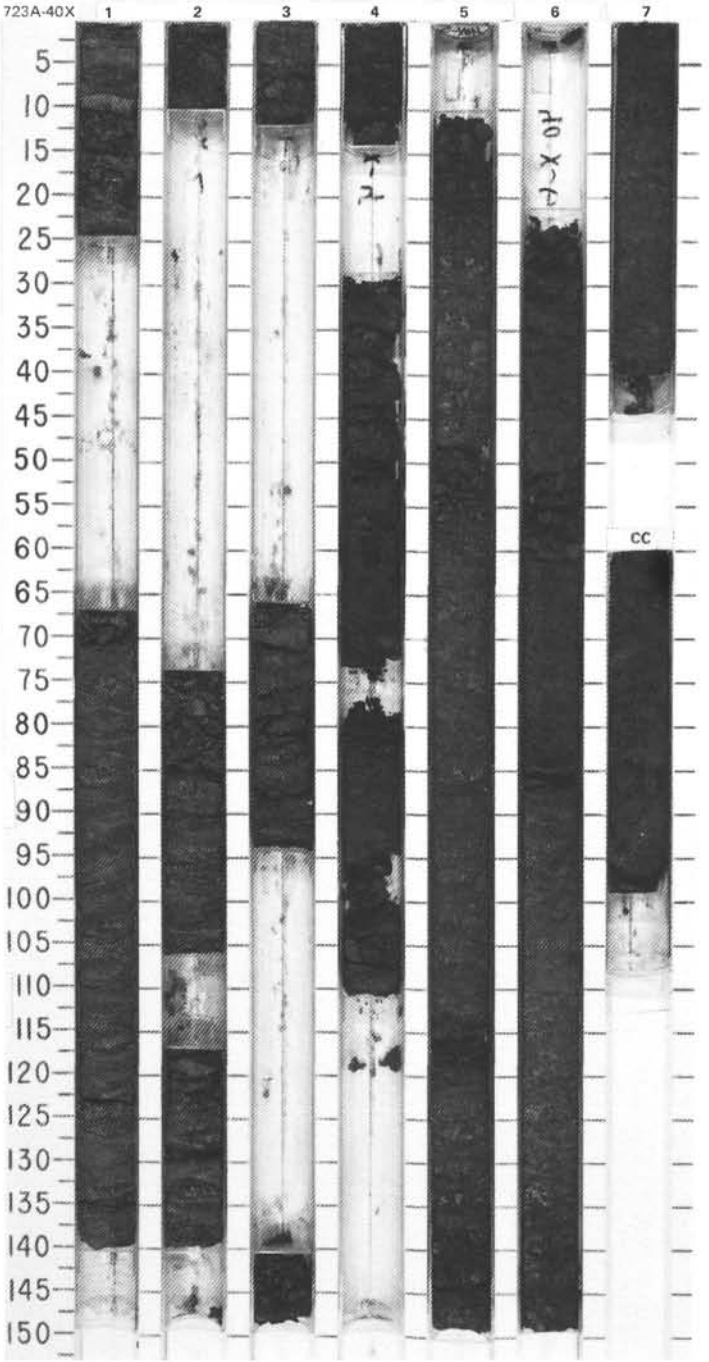
FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE

Entire core moderately disturbed by gas expansion (numerous voids). Crumbles readily, and firm intervals separate into clasts. Cut with wire in order to preserve laminae.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE, dark olive gray (5Y 3/2, 2.5/2). Color becoming darker in deeper cores. Foraminifers present on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	1, 105 D	3, 146 D	4, 61 D
TEXTURE:			
Sand	5	15	25
Silt	25	45	35
Clay	70	40	40
COMPOSITION:			
Access. minerals	Tr	3	10
Clay	30	35	35
Diatoms			
Dolomite	Tr	Tr	
Feldspar		5	5
Foraminifers	8	2	1
Volcanic glass			Tr
Inorganic calcite	15	25	20
Mica	Tr		2
Nannofossils	40	5	2
Organic debris			
Quartz	7	25	25
Radiolarians			Tr
Spar cement			
Sponge spicules		Tr	Tr



SITE 723 HOLE A CORE 41X CORED INTERVAL 1182.1-1191.8 mbsl: 374.3-384.0 mbsf

TIME-ROCK UNIT: PLIOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER:
- FORAMINIFERS: N19 - N21; *R/M
- NANNOFOSSILS: NN18 *Discoaster brouweri*; *A/G
- RADIOLARIANS: *Pterocanium prismatium*; *C/G
- DIATOMS

PALEOMAGNETICS

PHYS. PROPERTIES: ϕ=58.7 γ=1.81; ϕ=58.8 γ=1.64

CHEMISTRY: IC=8.35; IC=7.41; IC=3.55; IC=3.91; IC=6.31; IC=7.72

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID 374.51; VOID 374.72; VOID 374.95; VOID 376.31; VOID 377.63; VOID 377.63; VOID 378.58; VOID 378.87

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: *, *

LITHOLOGIC DESCRIPTION

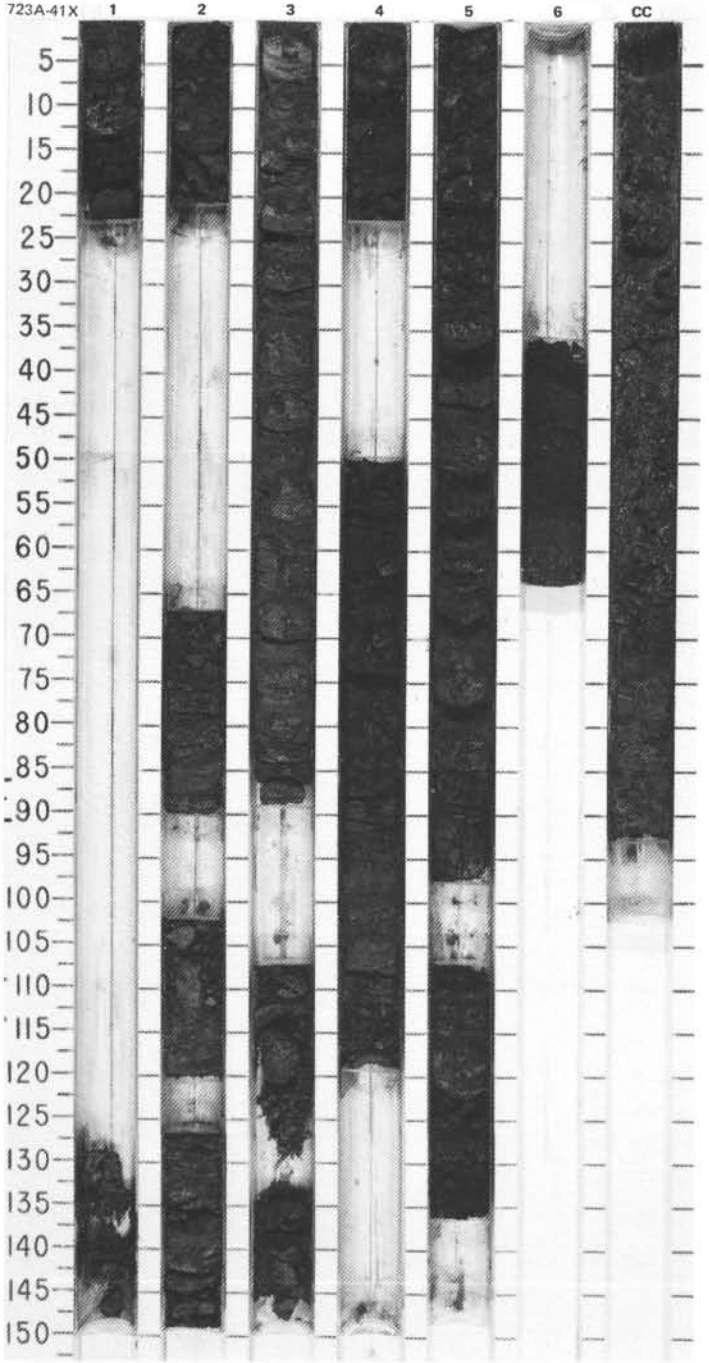
FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE

CC is soupy and heavily disturbed. Entire core moderately to heavily disturbed by gas expansion (numerous voids). Crumbles readily, and firm intervals separate into clasts. Cut with wire in order to preserve laminae.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE, dark olive gray (5Y 3/2, 2.5/2). Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	1, 19 D	3, 4 D
TEXTURE:		
Sand	5	20
Silt	55	20
Clay	40	60
COMPOSITION:		
Access. minerals	1	5
Clay	20	25
Diatoms	3	Tr
Foraminifers	Tr	15
Inorganic calcite	45	17
Nannofossils	20	35
Quartz	10	3
Radiolarians	Tr	Tr
Silicoflagellates	Tr	
Sponge spicules	1	Tr



SITE 723 HOLE A CORE 42X CORED INTERVAL 1191.8-1201.4 mbsl; 384.0-393.6 mbsf

TIME-ROCK UNIT	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
UPPER PLIOCENE	*R/M	*A/M-G	*C/G		O	●Φ=68.9 γ=1.45	IC=3.61 ●	1	0.5 1.0	VOID 384.22			*
								2					*

N19 - N21
NN18 *Discoaster brouweri*
Pterocanium prismatium

FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE

Entire core moderately disturbed by gas expansion (numerous voids). Crumbles readily, and firm intervals separate into clasts. Cut with wire in order to preserve laminae.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE, dark olive gray (5Y 2.5/2). Variable terrigenous component dominated by clay and silt-sized detrital calcite. Smear slide from dark drill-flow material indicates diatomaceous marly nannofossil chalk.

Minor lithology: Parallel laminae, individual light and dark layers 0.1-1.0 mm thick. Light layers are composed of nannofossils or diatoms; usually dominated by a single species. Laminae are faint and indistinct, occurring in hard biscuits in Section 1.

SMEAR SLIDE SUMMARY (%):

	1, 27 D	2, 21 D
TEXTURE:		
Sand	10	5
Silt	30	30
Clay	60	65
COMPOSITION:		
Access. minerals	5	2
Clay	60	35
Diatoms	1	5
Volcanic glass		15
Inorganic calcite	3	
Nannofossils		30
Quartz	30	12
Radiolarians	Tr	1
Silicoflagellates	Tr	
Sponge spicules	1	Tr

CORE 117-723A-43X NO RECOVERY

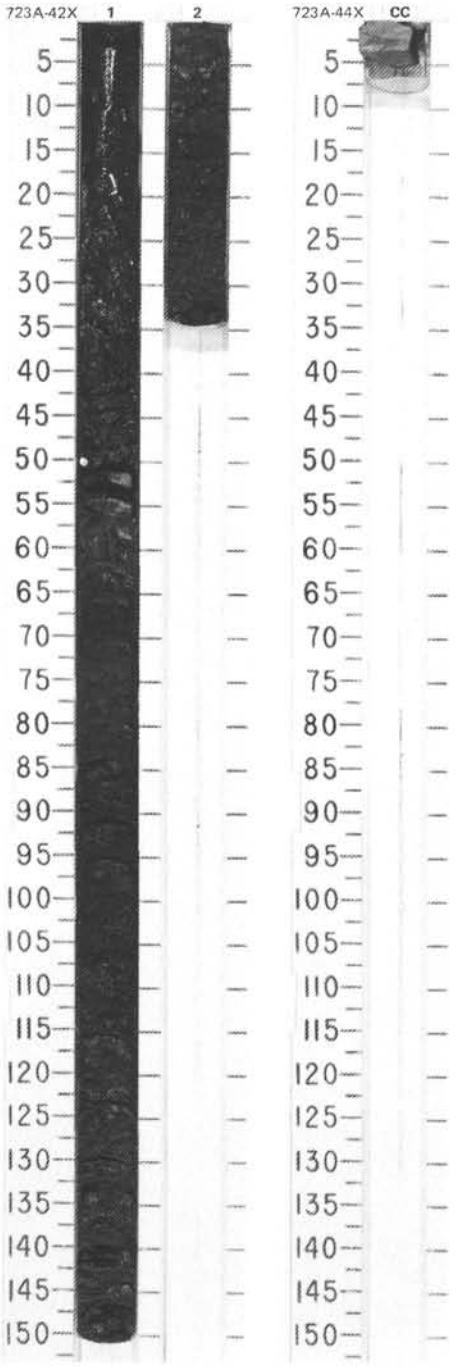
SITE 723 HOLE A CORE 44X CORED INTERVAL 1211.1-1220.8 mbsl; 403.3-413.0 mbsf

TIME-ROCK UNIT	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
								CC					

FORAMINIFER-BEARING MARLY NANNOFOSSIL LIMESTONE and CALCAREOUS CLAYEY SILTSTONE

Single clast recovered in CC.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL LIMESTONE and CALCAREOUS CLAYEY SILTSTONE with indistinct 1-mm-thick parallel laminated light and dark layers. Wavy bedding in diagenetic(?) and burrow structures.



SITE 723 HOLE A CORE 45X CORED INTERVAL 1220.8-1230.4 mbsl; 413.0-422.6 mbsf

TIME-ROCK UNIT	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
		B * Barren						CC					TS *

BIOSTRAT. ZONE/FOSSIL CHARACTER

LITHOLOGIC DESCRIPTION

FORAMINIFER-BEARING MARLY NANNOFOSSIL LIMESTONE and CALCAREOUS CLAYEY SILTSTONE

CC contains broken pieces.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL LIMESTONE and CALCAREOUS CLAYEY SILTSTONE contains light and dark layers 0.1-1.0 mm thick, parallel and lenticular lamination.

SMEAR SLIDE SUMMARY (%):

	CC, 26 D	CC, 26 M
TEXTURE:		
Sand		40
Silt	30	10
Clay	70	50
COMPOSITION:		
Clay	27	20
Diatoms		50
Dolomite	59	
Foraminifers	9	5
Spar cement		20
Sponge spicules	5	5

SITE 723 HOLE B CORE 1H CORED INTERVAL 806.2-810.5 mbsl; 0.0-4.3 mbsf

TIME-ROCK UNIT	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLEISTOCENE		NN21 *Emiliania huxleyi* * A/G				●Φ=64.5 γ=1.62	●IC=9.17 OC=5.66; ●IC=7.64 OC=2.83; ●IC=6.41 OC=2.28	1, 2, 3, CC	0.5, 1.0				* *

BIOSTRAT. ZONE/FOSSIL CHARACTER

LITHOLOGIC DESCRIPTION

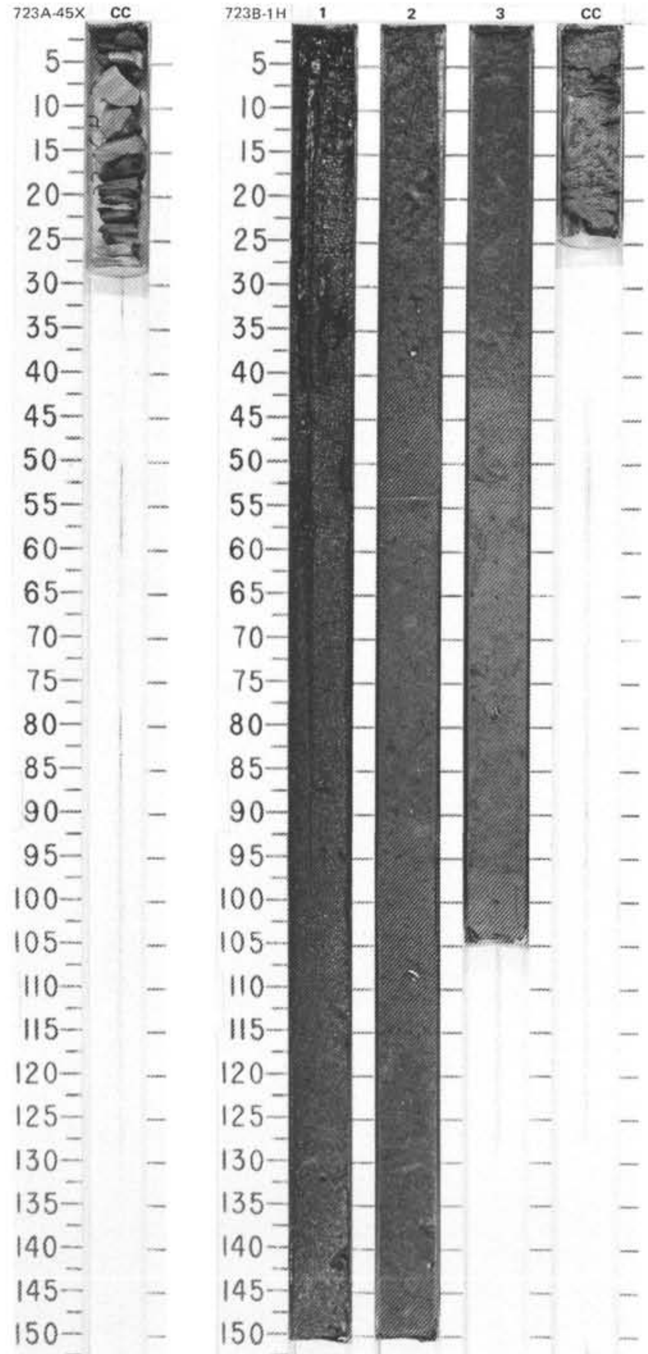
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Entire core undisturbed. Section 1, 0-60 cm, is almost soupy.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2) and dark olive gray (5Y 3/2), faintly mottled. Foraminifers and shell fragments (pteropods) common on core face, open burrows in Section 1. Variable terrigenous component dominated by clay and silt-sized detrital calcite

SMEAR SLIDE SUMMARY (%):

	1, 113 D	3, 98 D
TEXTURE:		
Sand	15	10
Silt	25	35
Clay	60	55
COMPOSITION:		
Access. minerals	3	1
Clay	30	20
Diatoms	3	
Dolomite		1
Feldspar		1
Foraminifers	15	15
Inorganic calcite	10	20
Mica	1	
Nannofossils	35	35
Pteropod	Tr	
Quartz	3	7
Radiolarians	Tr	
Sponge spicules	Tr	



SITE 723 HOLE B CORE 2H CORED INTERVAL 810.5-820.2 mbsl; 4.3-14.0 mbsf

TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS: * A/G; NANNOFOSSILS: NN21 *Emiliania huxleyi*; RADIOLARIANS; DIATOMS; PALEOMAGNETICS; PHYS. PROPERTIES: ● Φ •63.5 γ=1.60

CHEMISTRY: IC=6.46 OC=7.46; IC=6.33 OC=1.80; IC=6.87 OC=3.89; IC=5.55 OC=3.25; IC=4.29 OC=3.87; IC=7.83 OC=2.49; IC=6.23 OC=1.96; IC=5.88 OC=2.45; IC=6.15 OC=1.17; IC=6.01 OC=2.21; IC=5.71 OC=2.27; IC=6.07 OC=1.73

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.: ○ ○

SED. STRUCTURES: 6 6 6 6 6

SAMPLES: *

LITHOLOGIC DESCRIPTION

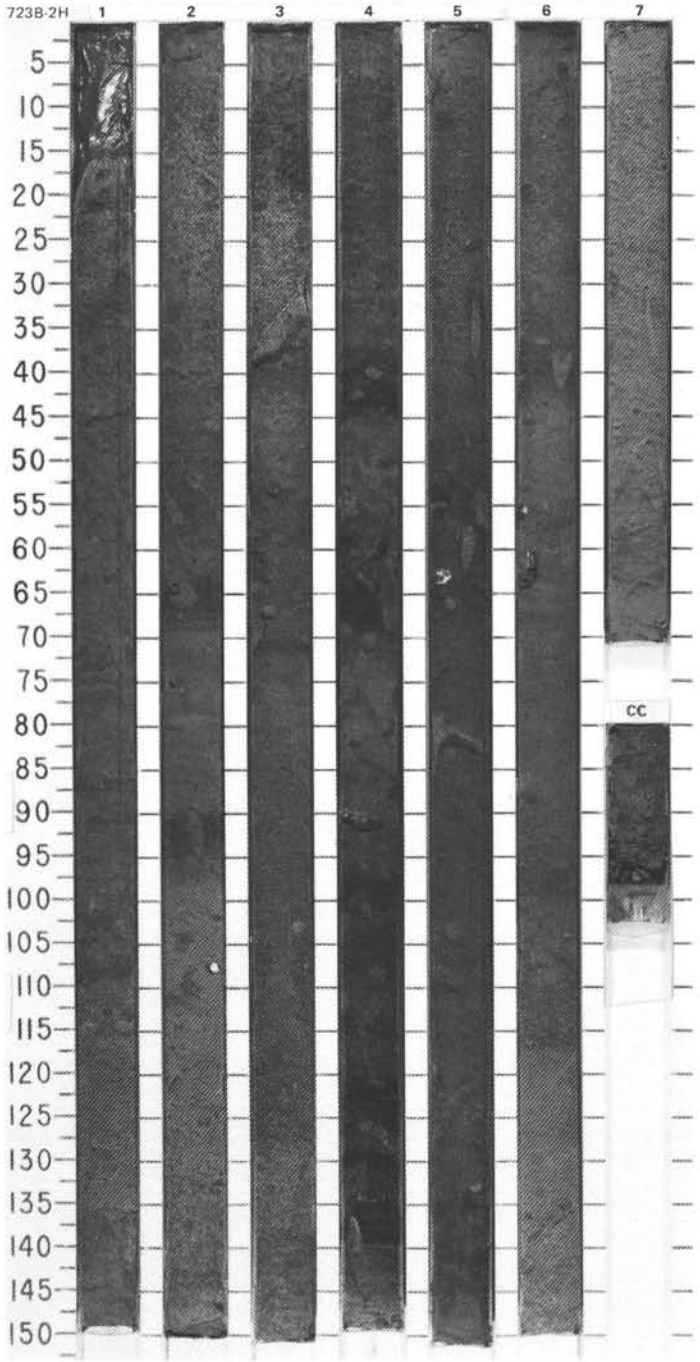
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Section 1, 0-15 cm, soupy; remainder of core undisturbed.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2) and dark olive gray (5Y 3/2), faintly mottled. Foraminifers and shell fragments (pteropods) common on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	1, 73 D	7, 44 D
TEXTURE:		
Sand	15	10
Silt	40	45
Clay	45	45
COMPOSITION:		
Access. minerals	2	2
Clay	30	20
Dolomite	Tr	1
Feldspar	5	
Foraminifers	2	1
Volcanic glass	Tr	1
Inorganic calcite	25	30
Mica	1	
Nannofossils	15	25
Quartz	20	20



SITE 723 HOLE B CORE 3H CORED INTERVAL 820.2-829.8 mbsl; 14.0-23.6 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
PLEISTOCENE	* A/G	NN21 *Emiliania huxleyi*				●ϕ=66.2 γ=1.61	●IC=7.52 ○C=3.21 ●IC=5.70 ○C=3.73 ●IC=6.45 ○C=1.87	1 2 3 4 5 6 7 CC	0.5 1.0		—		*

LITHOLOGIC DESCRIPTION

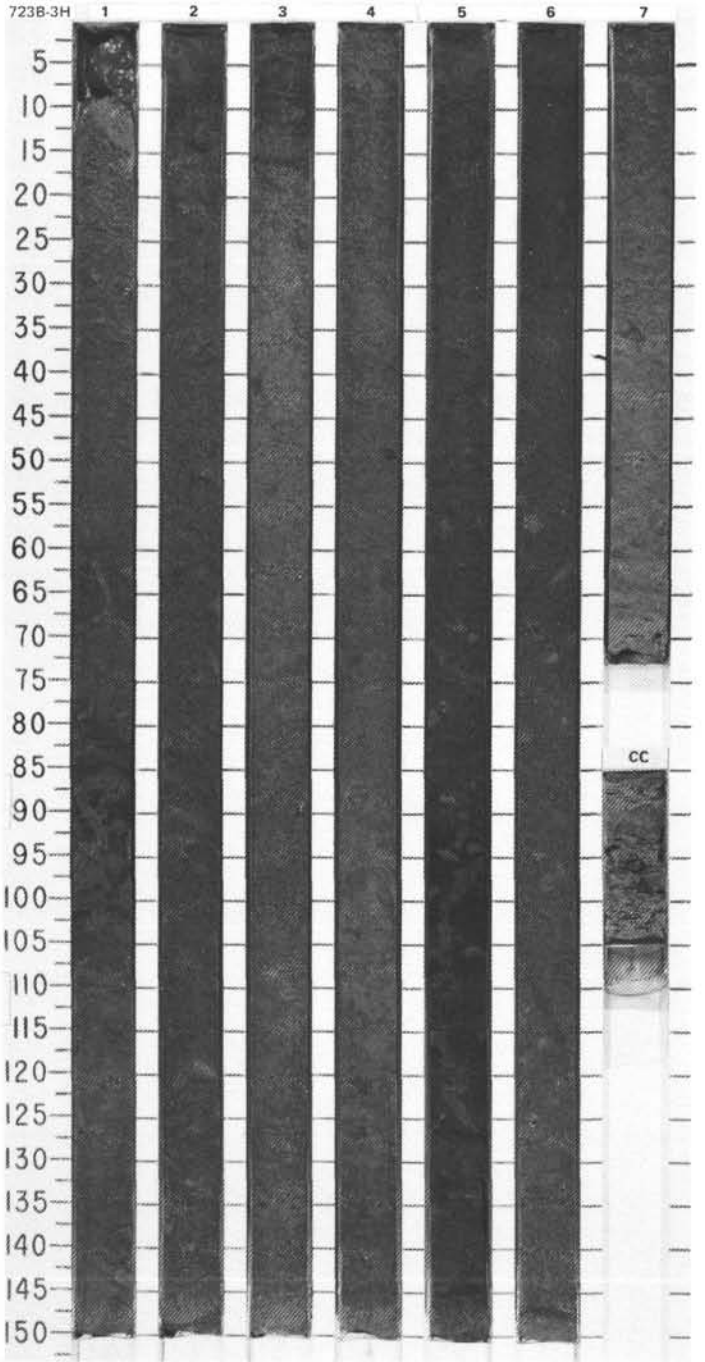
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Section 1, 0-10 cm, soupy; remainder of core undisturbed.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2) and dark olive gray (5Y 3/2), mottled. Foraminifers and shell fragments common on core face, with some fragments concentrated in burrows. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	1, 120 D	7, 50 D
TEXTURE:		
Sand	15	25
Silt	25	35
Clay	60	40
COMPOSITION:		
Access. minerals	2	3
Clay	25	20
Dolomite	Tr	
Feldspar		3
Foraminifers	8	4
Inorganic calcite	25	25
Nannofossils	35	20
Quartz	5	25



SITE 723 HOLE B CORE 4H CORED INTERVAL 829.8-839.5 mbsl; 23.6-33.3 mbsf

TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS: *A/G; NANNOFOSSILS: NN21 *Emiliania huxleyi*; RADIOLARIANS; DIATOMS

PALEOMAGNETICS

PHYS. PROPERTIES: ●ϕ -59.3 γ=1.69

CHEMISTRY

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES: 6

SAMPLES: *, *, *

LITHOLOGIC DESCRIPTION

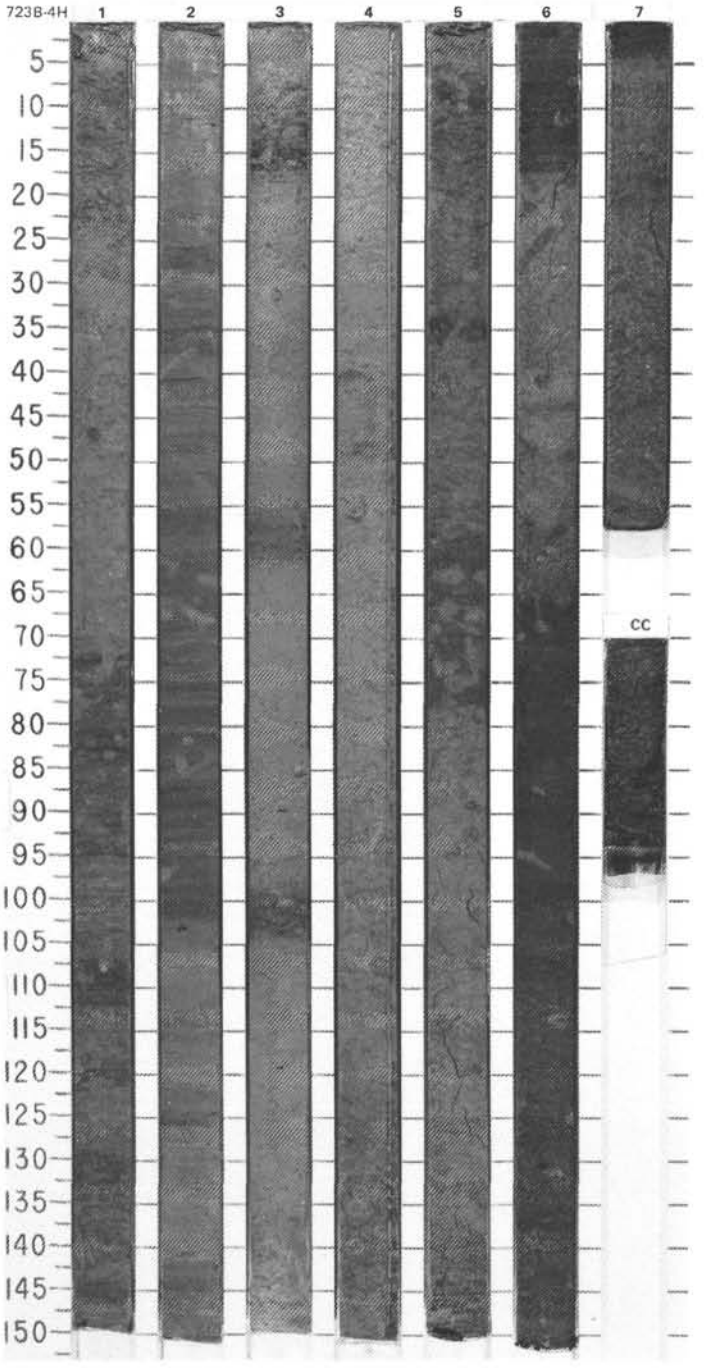
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Entire core undisturbed.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, irregular intervals of olive gray (5Y 4/2, 4/3) and dark olive gray (5Y 3/2), mottled. Centimeter-scale light and dark layers in bottom of Section 1 and in Section 2. Foraminifers are common on core face. Variable terrigenous component is dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	2, 103 D	3, 118 D	6, 67 D
TEXTURE:			
Sand	20	20	15
Silt	35	25	35
Clay	45	55	50
COMPOSITION:			
Access. minerals	3		3
Clay	20	20	30
Dolomite	1	1	
Feldspar	2		2
Foraminifers	4	10	
Inorganic calcite	25	25	35
Nannofossils	25	35	15
Quartz	20	9	15



SITE 723 HOLE B CORE 5H CORED INTERVAL 839.5-849.1 mbsl; 33.3-42.9 mbsf

TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS *A/G; NANNOFOSSILS NN20 *Gephyrocapsa oceanica*; RADIOLARIANS; DIATOMS

PALEOMAGNETICS

PHYS. PROPERTIES: ●ϕ ~68.5; γ ~1.51

CHEMISTRY

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: *, *

LITHOLOGIC DESCRIPTION

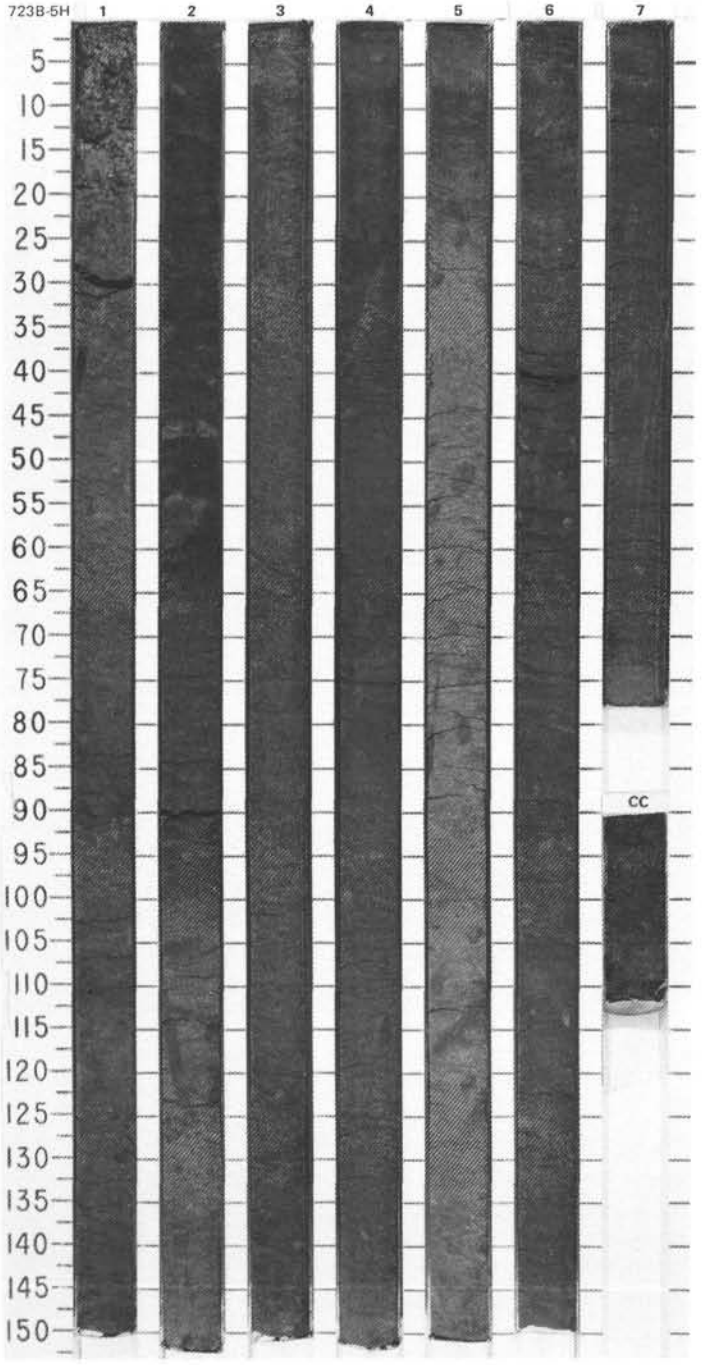
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Section 1, 0-15 cm, slightly disturbed; remainder of core undisturbed.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2, 5/2) and dark olive gray (5Y 3/2) intervals, mottled. Foraminifers common on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	4, 74 D	5, 100 D
TEXTURE:		
Sand	10	10
Silt	20	20
Clay	70	70
COMPOSITION:		
Access. minerals	2	1
Clay	25	20
Dolomite		Tr
Feldspar	1	
Foraminifers	10	4
Volcanic glass		20
Inorganic calcite	10	
Nannofossils	45	50
Quartz	7	5
Radiolarians	Tr	
Sponge spicules	Tr	



SITE 723 HOLE B CORE 6H CORED INTERVAL 849.1-858.8 mbsl; 42.9-52.6 mbsf

TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS: * A/M; NANNOFOSSILS: NN20 *Gephyrocapsa oceanica*; RADIOLARIANS; DIATOMS

PALEOMAGNETICS

PHYS. PROPERTIES: ● Φ ~63.5 γ ~1.81

CHEMISTRY

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: *, *

LITHOLOGIC DESCRIPTION

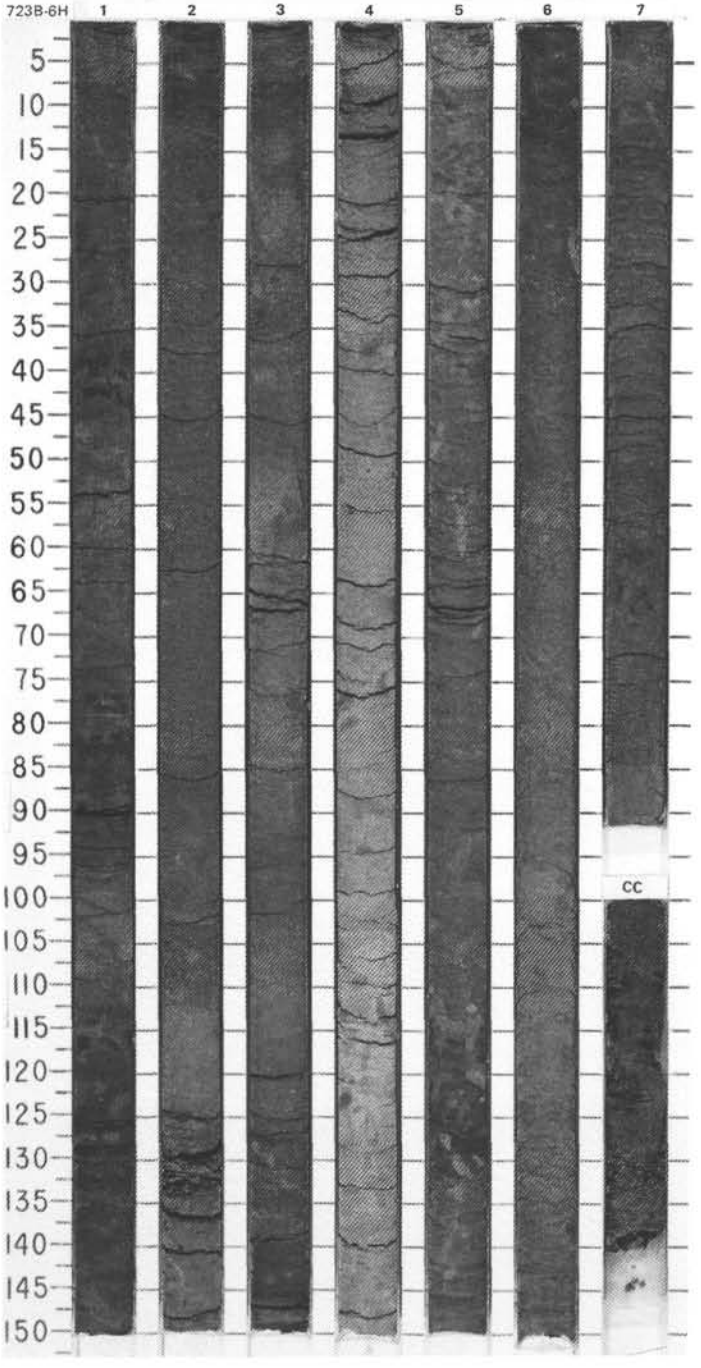
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Undisturbed except for minor gas expansion.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2, 4/3, 5/3, 5/2) and dark olive gray (5Y 3/2), mottled. Foraminifers common on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

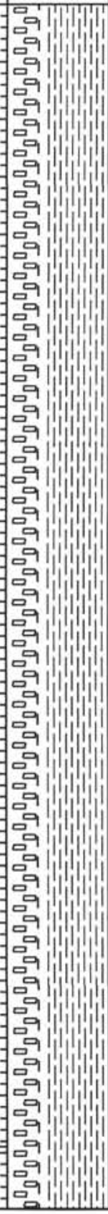
SMEAR SLIDE SUMMARY (%):

	1, 118 D	4, 49 D
TEXTURE:		
Sand	15	
Silt	40	40
Clay	45	60
COMPOSITION:		
Access. minerals	2	2
Clay	30	20
Diatoms	2	
Dolomite		Tr
Feldspar	Tr	1
Foraminifers	1	2
Inorganic calcite	25	20
Nannofossils	15	40
Quartz	25	15
Silicoflagellates	Tr	
Sponge spicules	Tr	



SITE 723 HOLE B CORE 7H CORED INTERVAL 858.8-868.5 mbsl; 52.6-62.3 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
PLEISTOCENE		NN20 *Gephyrocapsa oceanica* *A/G				● φ=60.3 γ=1.66		1, 2, 3, 4, 5, 6, 7, CC	0.5, 1.0				* *



LITHOLOGIC DESCRIPTION

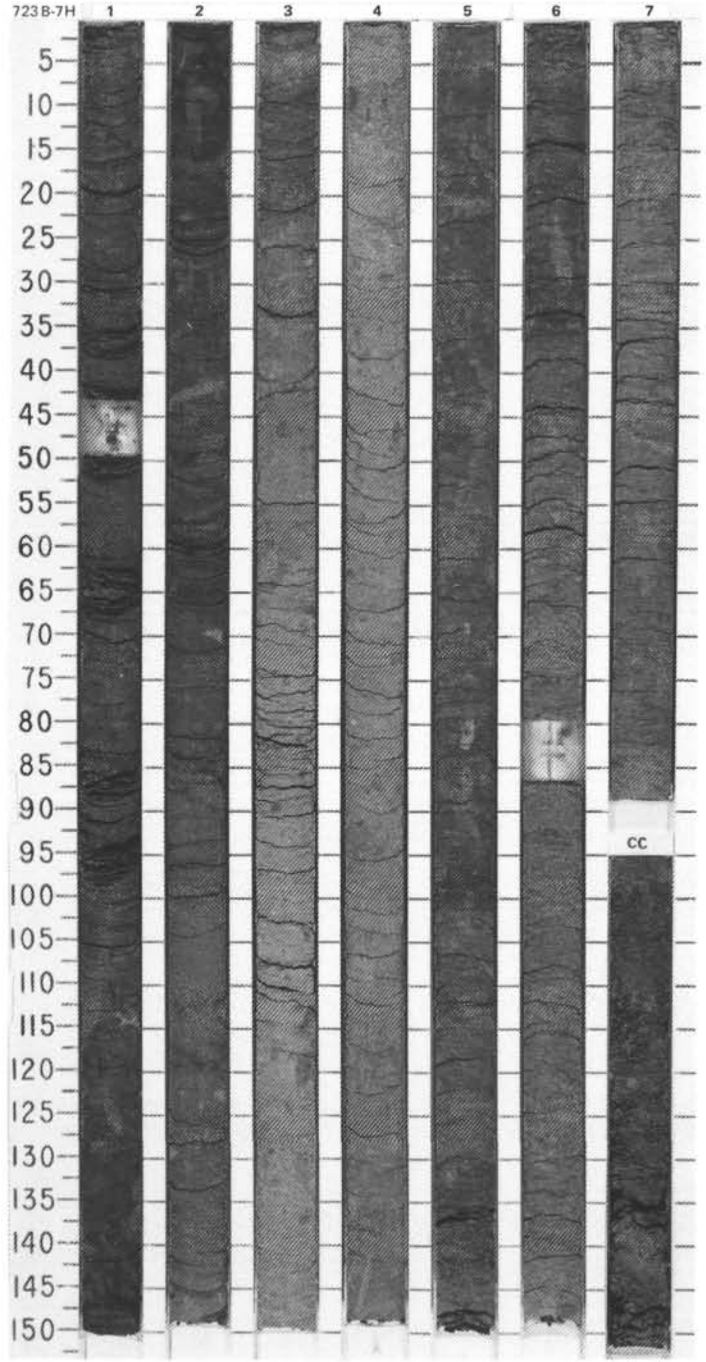
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Entire core slightly disturbed by gas expansion. Numerous small voids. Sediment appears continuous across voids.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2, 4/3, 5/3) and dark olive gray (5Y 3/2), mottled. Foraminifers common on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	1, 80 D	3, 106 D
TEXTURE:		
Sand	10	
Silt	30	25
Clay	60	75
COMPOSITION:		
Access. minerals	5	5
Clay	17	7
Dolomite	Tr	Tr
Foraminifers	10	3
Inorganic calcite	10	15
Mica	Tr	
Nannofossils	50	65
Organic debris	3	
Quartz	5	5



SITE 723 HOLE B CORE 8H CORED INTERVAL 868.5-878.1 mbsl; 62.3-71.9 mbsf

TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS *A/G; NANNOFOSSILS NN20 *Gephyrocapsa oceanica*; RADIOLARIANS; DIATOMS

PALEOMAGNETICS

PHYS. PROPERTIES: ●Φ-61.0 γ- 1.73

CHEMISTRY

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID 62.85; VOID 63.31; VOID 65.39

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES

LITHOLOGIC DESCRIPTION

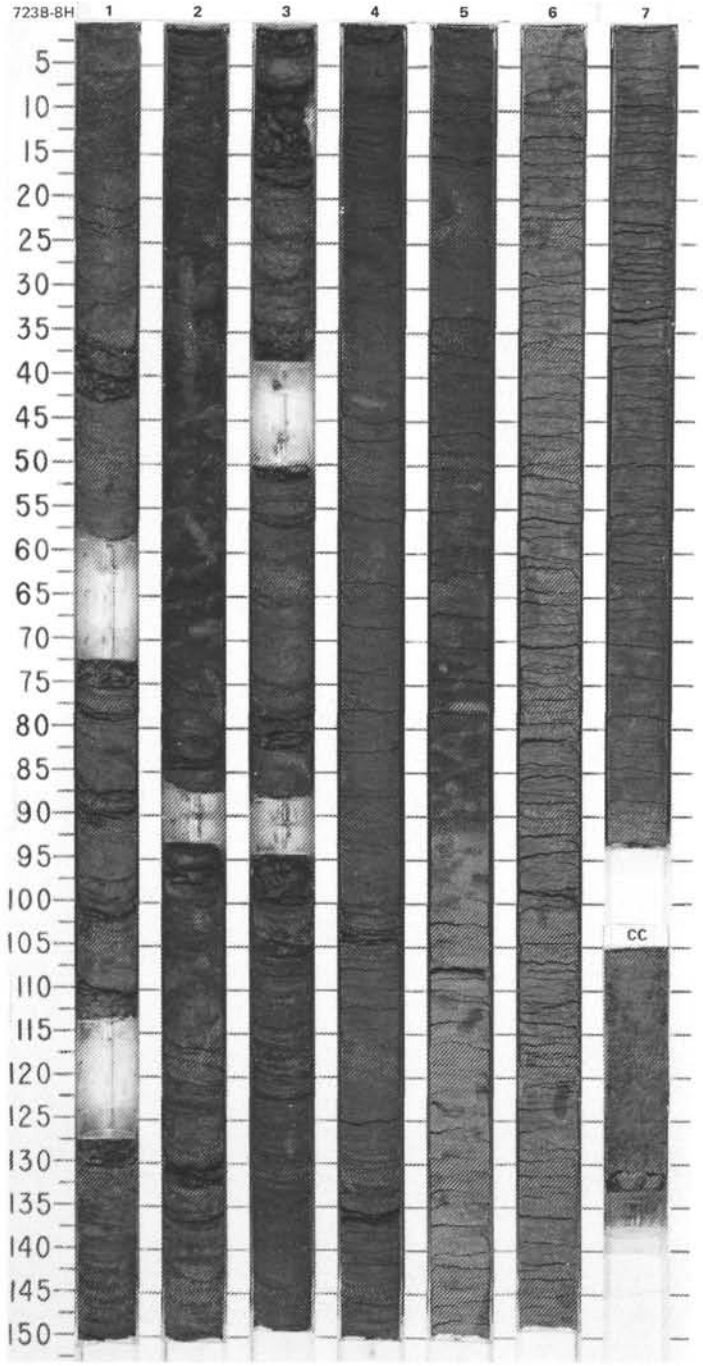
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Section 3, 0-17 cm, heavily disturbed, remainder slightly disturbed by gas expansion. Numerous small voids. Large (10 cm) voids appear. Sediment appears continuous across voids.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2, 4/3) and dark olive gray (5Y 3/2, 3/1), mottled. Foraminifers present on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	2, 62 D	4, 42 M	4, 98 D
TEXTURE:			
Sand		5	
Silt	40	75	55
Clay	60	20	45
COMPOSITION:			
Access. minerals	10	15	10
Clay	48	5	10
Dolomite	Tr	Tr	Tr
Foraminifers	2	5	10
Inorganic calcite	20	30	25
Mica		5	
Nannofossils	10	15	35
Organic debris	Tr		
Quartz	10	20	10
Rock fragments		5	
Sponge spicules			Tr



SITE 723 HOLE B CORE 9H CORED INTERVAL 878.1-887.8 mbsl; 71.9-81.6 mbsf

TIME-ROCK UNIT: PLEISTOCENE

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

PALEOMAGNETICS

PHYS. PROPERTIES: ●ϕ-62.2 γ-1.73

CHEMISTRY

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID 73.11; VOID 73.71; VOID 73.81

DRILLING DISTURB.

SED. STRUCTURES: Ø

SAMPLES: *, **

LITHOLOGIC DESCRIPTION

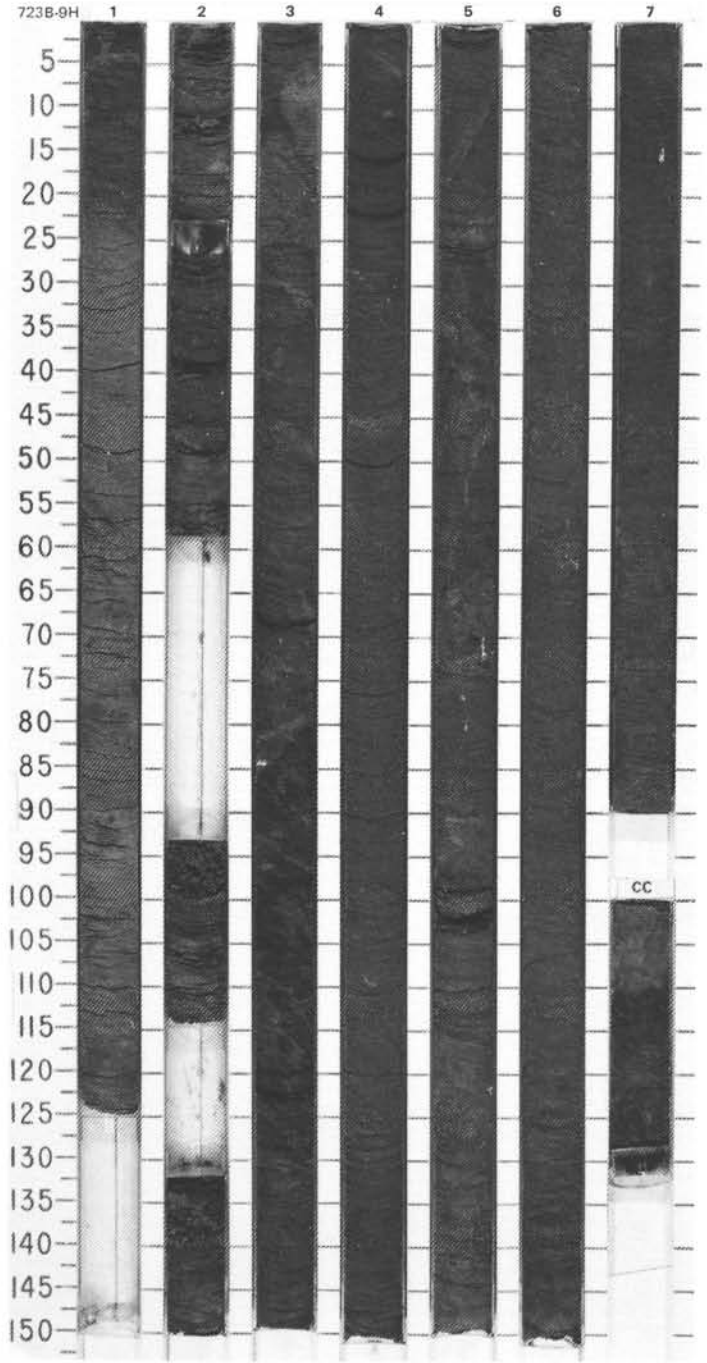
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Entire core slightly disturbed by gas expansion. Numerous small voids. Sediment appears continuous across voids.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2, 4/3) and dark olive gray (5Y 3/2), mottled. Foraminifers common on core face, also abundant shell fragments. Variable terrigenous component dominated by clay and silt-sized detrital calcite. Winnowed or turbidite(?) layer, top of Section 3.

SMEAR SLIDE SUMMARY (%):

	1, 60 D	3, 14 M	3, 23 M	3, 99 D
TEXTURE:				
Sand		5	15	
Silt	45	70	45	60
Clay	55	25	40	40
COMPOSITION:				
Access. minerals	5	10	5	9
Clay	5	10	10	22
Dolomite		2		2
Foraminifers	10	5	20	9
Inorganic calcite	25	38	20	29
Nannofossils	40	15	30	9
Organic debris	Tr			5
Pyrite	5			
Quartz	10	20	15	14
Sponge spicules	Tr	Tr		



SITE 723 HOLE B CORE 10X CORED INTERVAL 887.8-897.4 mbsl; 81.6-91.2 mbsf

TIME-ROCK UNIT: PLEISTOCENE

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

PALEOMAGNETICS

PHYS. PROPERTIES: ● ϕ=59.2 γ=1.75

CHEMISTRY

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

VOID 84.34
VOID 84.64
VOID 85.14
VOID 85.54
VOID 85.79
VOID 86.19
VOID 86.39
VOID 86.79

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES

LITHOLOGIC DESCRIPTION

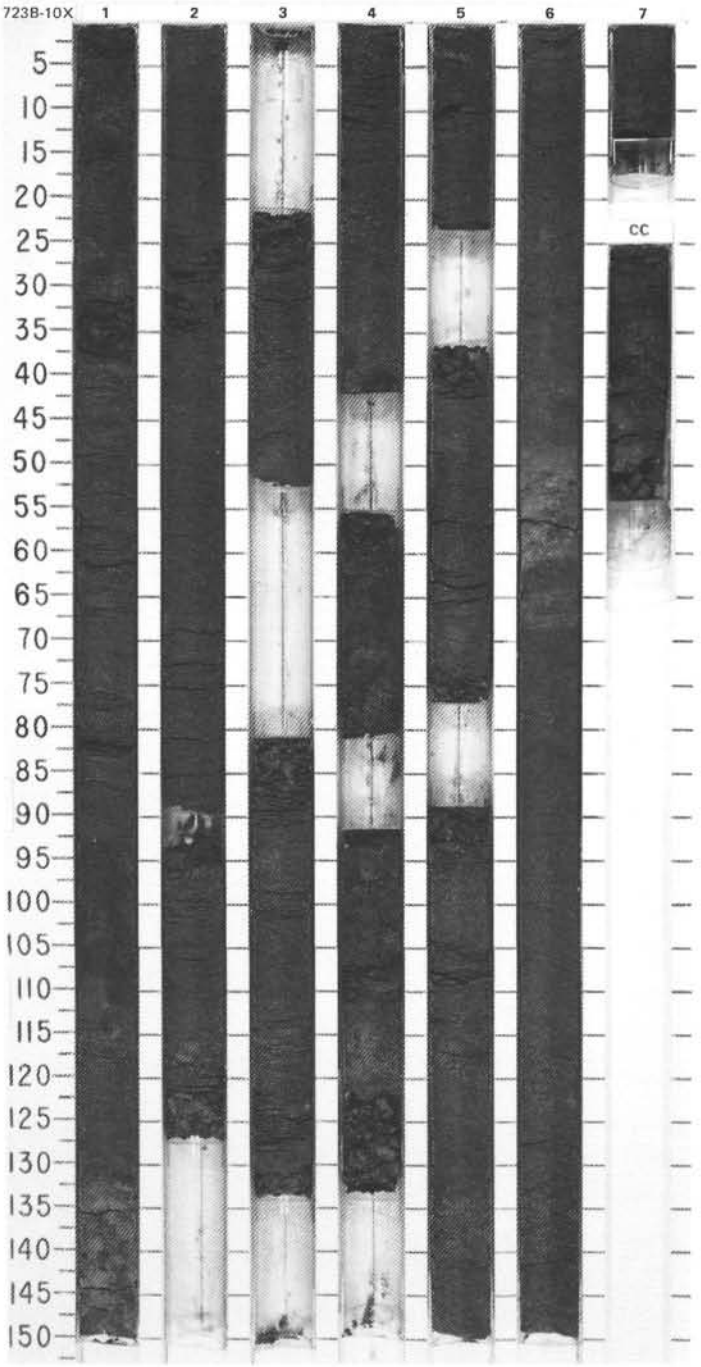
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Entire core slightly disturbed by gas expansion. Numerous small voids. Sediment appears continuous across voids.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2, 4/3) and dark olive gray (5Y 3/2, 3/1), mottled. Foraminifers common on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	2, 60 D	6, 55 M
TEXTURE:		
Sand	0	5
Silt	25	45
Clay	75	50
COMPOSITION:		
Access. minerals	2	10
Clay	20	14
Dolomite		1
Foraminifers	3	15
Inorganic calcite	20	15
Nannofossils	50	35
Quartz	5	10
Sponge spicules		Tr



SITE 723 HOLE B CORE 11X CORED INTERVAL 897.4-906.9 mbsl; 91.2-100.7 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
PLEISTOCENE	*A/M	NN19 *Pseudoemiliania lacunosa*				● ϕ=56.4 7-1.85		1	0.5	VOID 91.59			
									1.0	VOID 91.82			
								2		VOID 92.42			
										VOID 93.0			
								3		VOID 94.4			
								4		VOID 94.6			*
										VOID 95.03			
								5		VOID 95.98			*
								6		VOID 96.93			
								7					
								CC					

LITHOLOGIC DESCRIPTION

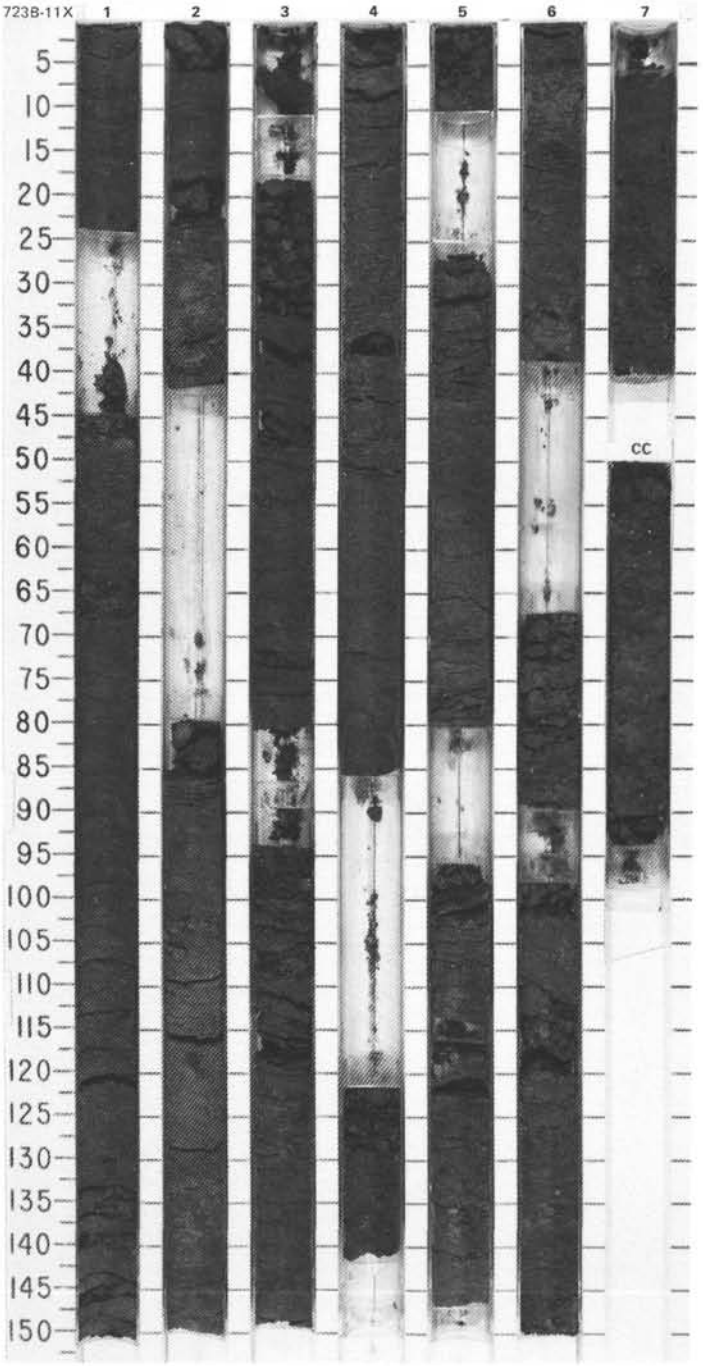
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Entire core slightly disturbed by gas expansion, moderate disturbance adjacent to voids. Numerous voids. Sediment appears continuous across voids.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2) and dark olive gray (5Y 3/2), mottled. Foraminifers common on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	4, 40 D	5, 112 D
TEXTURE:		
Silt	40	60
Clay	60	40
COMPOSITION:		
Clay	40	30
Dolomite	Tr	
Foraminifers	10	15
Inorganic calcite	30	33
Mica		Tr
Nannofossils	15	12
Organic debris	Tr	3
Quartz	5	7



SITE 723 HOLE B CORE 12X CORED INTERVAL 906.9-916.5 mbsl; 100.7-110.3 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
PLEISTOCENE		NN19 *Pseudoemiliania lacunosa*; *A/M				●φ=62.9 γ=1.71		1, 2, 3, 4, 5, 6, 7	0.5, 1.0	VOID 103.15			* *

LITHOLOGIC DESCRIPTION

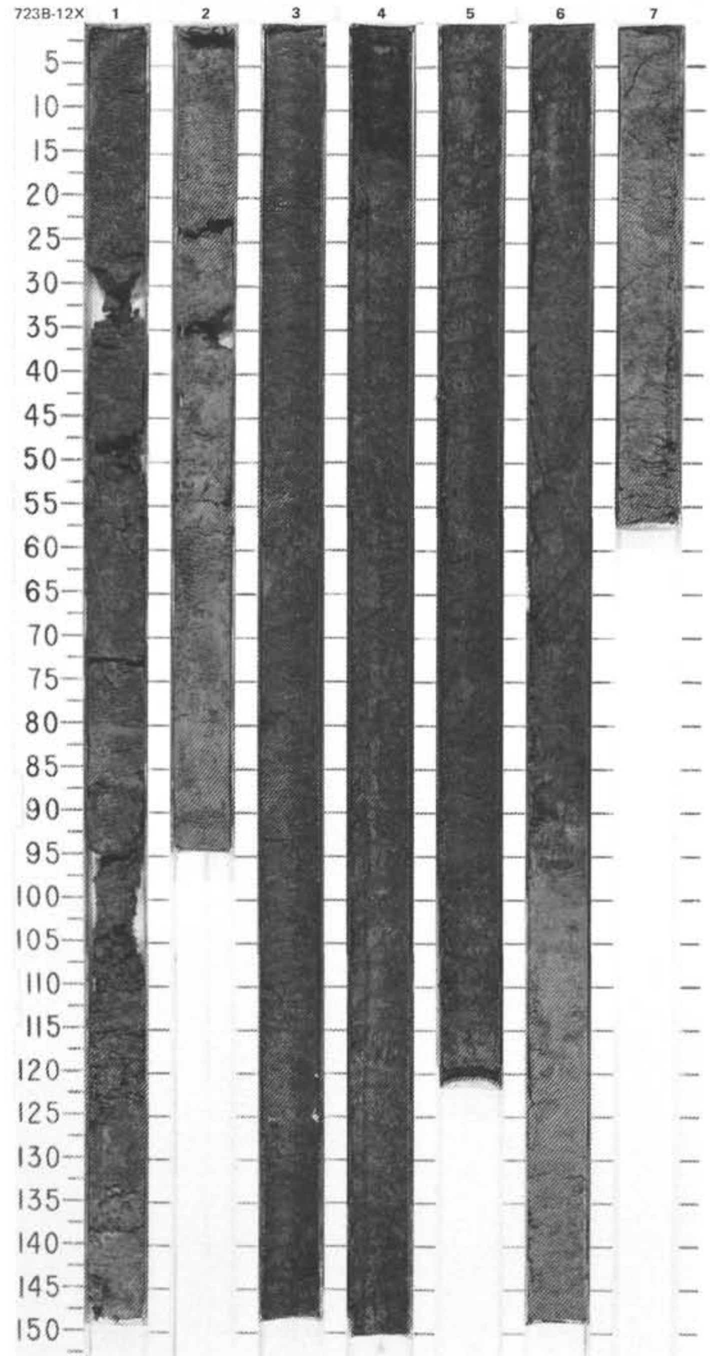
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Entire core slightly disturbed by gas expansion. Numerous voids. Sediment appears continuous across voids.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2) and dark olive gray (5Y 3/2, 3/1), mottled. Foraminifers common on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	2, 68 D	4, 132 D
TEXTURE:		
Silt	30	40
Clay	70	60
COMPOSITION:		
Clay	20	30
Foraminifers	5	10
Gypsum	Tr	
Inorganic calcite	25	25
Nannofossils	45	30
Quartz	5	5
Sponge spicules		Tr



SITE 723 HOLE B CORE 13X CORED INTERVAL 916.5-926.5 mbsl; 110.3-119.9 mbsf

TIME-ROCK UNIT: PLEISTOCENE

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

PALEOMAGNETICS: BRUNHES

PHYS. PROPERTIES: ϕ-62.3 γ-1.69

CHEMISTRY

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID 111.15; VOID 111.7; VOID 111.97; VOID 112.72; VOID 113.4; VOID 114.2; VOID 114.45; VOID 115.8; VOID 116.22

DRILLING DISTURB.

SED. STRUCTURES: 6

SAMPLES: *

LITHOLOGIC DESCRIPTION

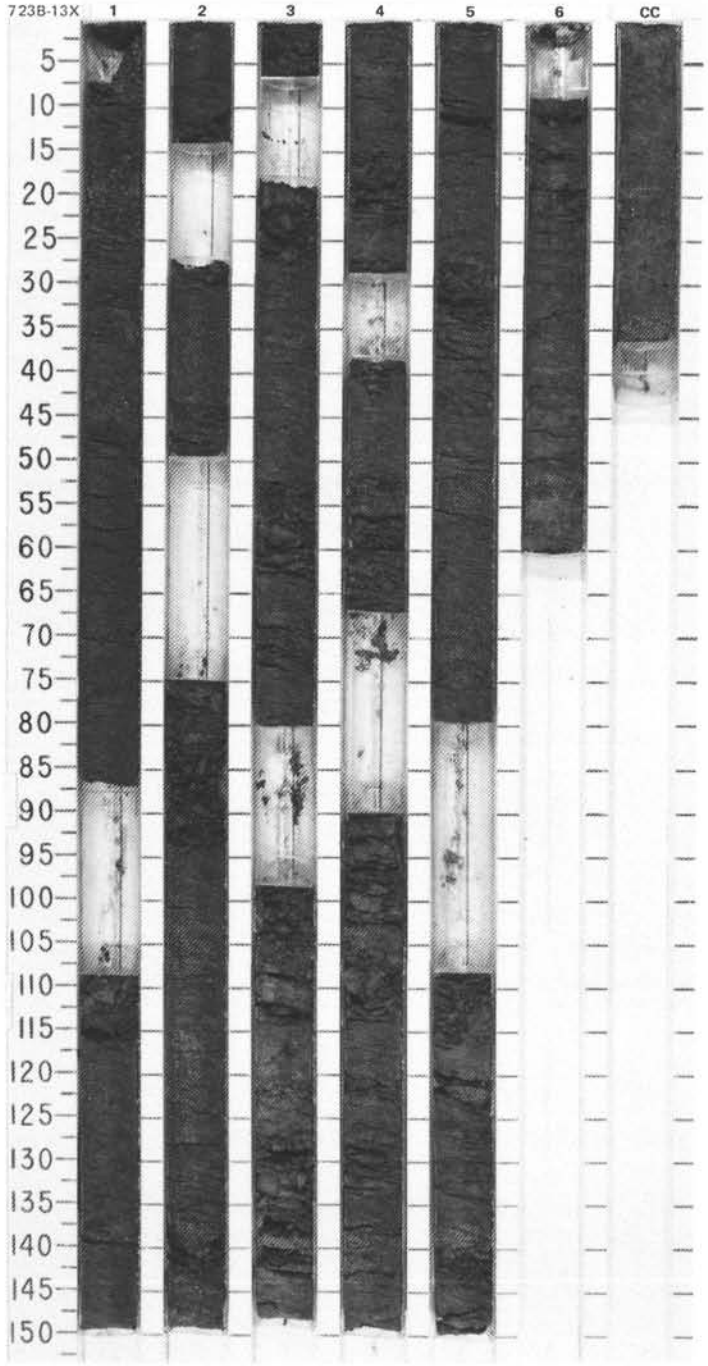
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Section 3 is moderately disturbed; remainder is slightly disturbed by gas expansion. Numerous voids. Sediment appears continuous across voids.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and *CALCAREOUS CLAYEY SILT*, olive gray (5Y 4/2), faintly mottled, with only minor variations in color. foraminifers abundant, also shell fragments on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	3, 51 D
TEXTURE:	
Silt	30
Clay	70
COMPOSITION:	
Clay	15
Foraminifers	5
Inorganic calcite	25
Nannofossils	50
Quartz	5



SITE 723 HOLE B CORE 14X CORED INTERVAL 926.1-935.8 mbsl; 119.9-129.6 mbsf

TIME-ROCK UNIT: PLEISTOCENE

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

PALEOMAGNETICS: O; •

PHYS. PROPERTIES: ● Φ-62.9 γ-1.65

CHEMISTRY

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID 120.1; VOID 121.36; VOID 122.12; VOID 123.32; VOID 125.36

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: *; *

LITHOLOGIC DESCRIPTION

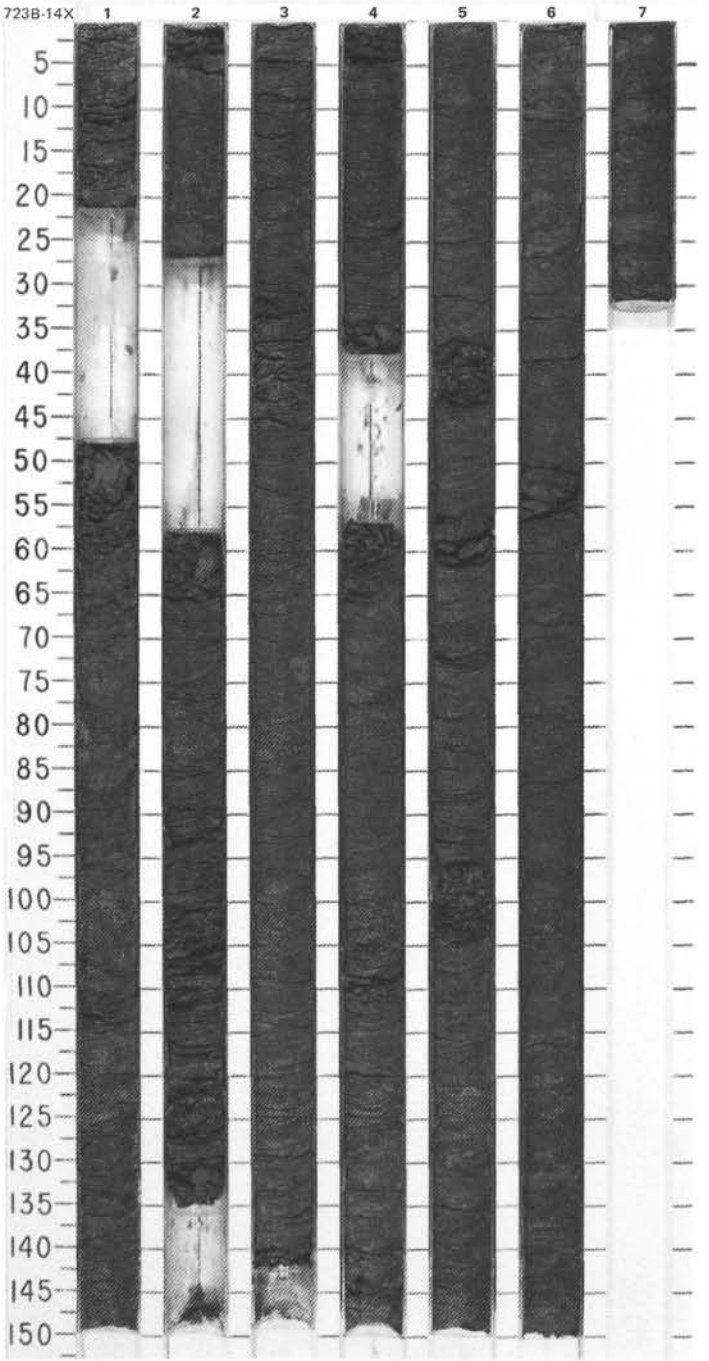
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE AND CALCAREOUS CLAYEY SILT

Section 2 is moderately disturbed; remainder is slightly disturbed by gas expansion. Numerous voids. Sediment appears continuous across voids. Core surface often separates into 1-mm-thick flakes raised up by splitting wire.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/3), mottled. Foraminifers present on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	1, 100 D	5, 100 D
TEXTURE:		
Silt	60	50
Clay	40	50
COMPOSITION:		
Access. minerals	5	5
Clay	15	15
Dolomite	Tr	3
Feldspar		Tr
Foraminifers	5	15
Inorganic calcite	30	15
Mica	Tr	
Nannofossils	30	35
Organic debris		5
Quartz	15	7



SITE 723 HOLE B CORE 15X CORED INTERVAL 935.8-945.4 mbsl; 129.6-139.2 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
PLEISTOCENE		NN19 *Pseudoemiliania lacunosa*			●			1	0.5				*
		*A/G							1.0				
								2		VOID 132.15			
										VOID 132.5			
					●			3		VOID 132.96			
								4		VOID 134.26			*
					●			5					
						●Φ -60.0 χ -1.70		6					
								CC					

LITHOLOGIC DESCRIPTION

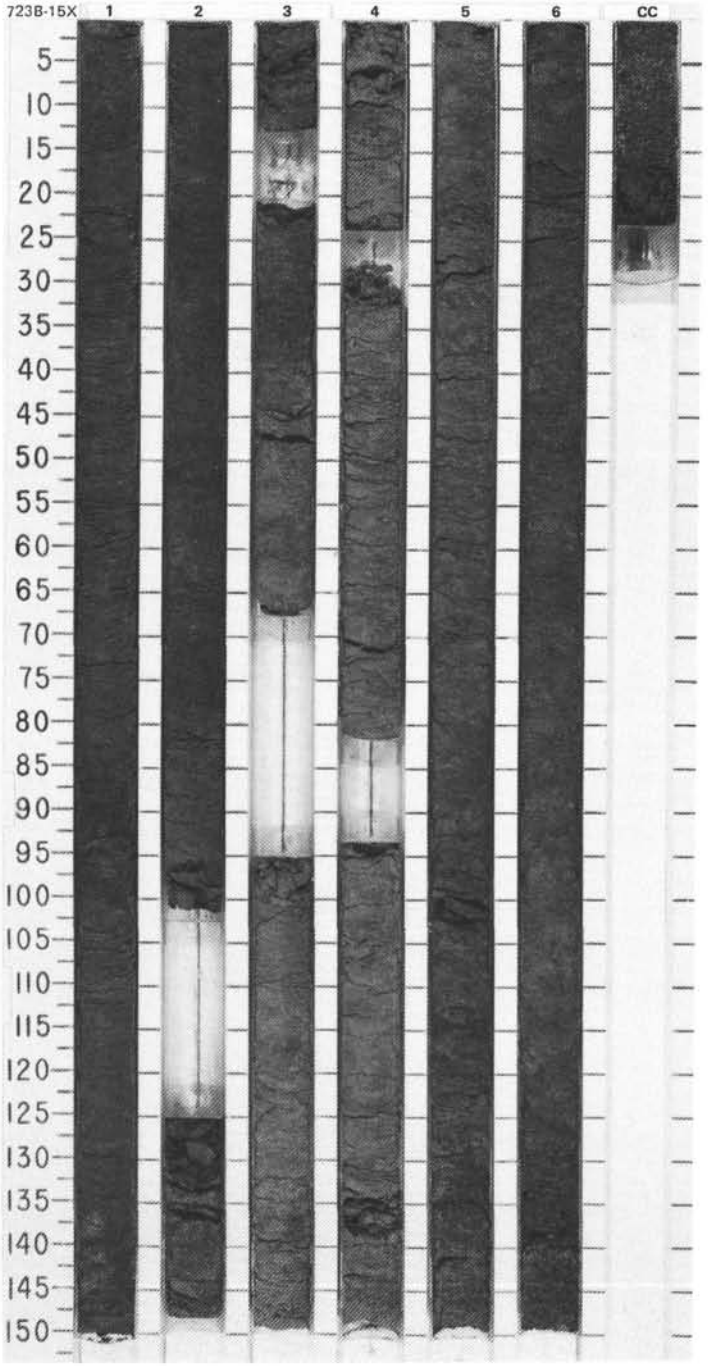
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE AND CALCAREOUS CLAYEY SILT

Entire core slightly disturbed by gas expansion. Numerous voids. Sediment appears continuous across voids.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2, 4/3) and dark olive gray (5Y 3/2), faintly mottled. Foraminifers less common on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	1, 78 D	4, 78 D
TEXTURE:		
Sand	10	20
Silt	30	20
Clay	60	60
COMPOSITION:		
Clay	10	20
Diatoms	Tr	Tr
Dolomite	Tr	
Foraminifers	10	10
Inorganic calcite	10	20
Nannofossils	65	45
Quartz	5	5



SITE 723 HOLE B CORE 16X CORED INTERVAL 945.4-955.1 mbsl; 139.2-148.9 mbsf

TIME-ROCK UNIT: PLEISTOCENE

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

PALEOMAGNETICS: O

PHYS. PROPERTIES: ●ϕ-58.8 γ-1.75

CHEMISTRY

SECTION: 1, 2, 3, CC

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID 139.8; VOID 140.1; VOID 140.7

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: *

LITHOLOGIC DESCRIPTION

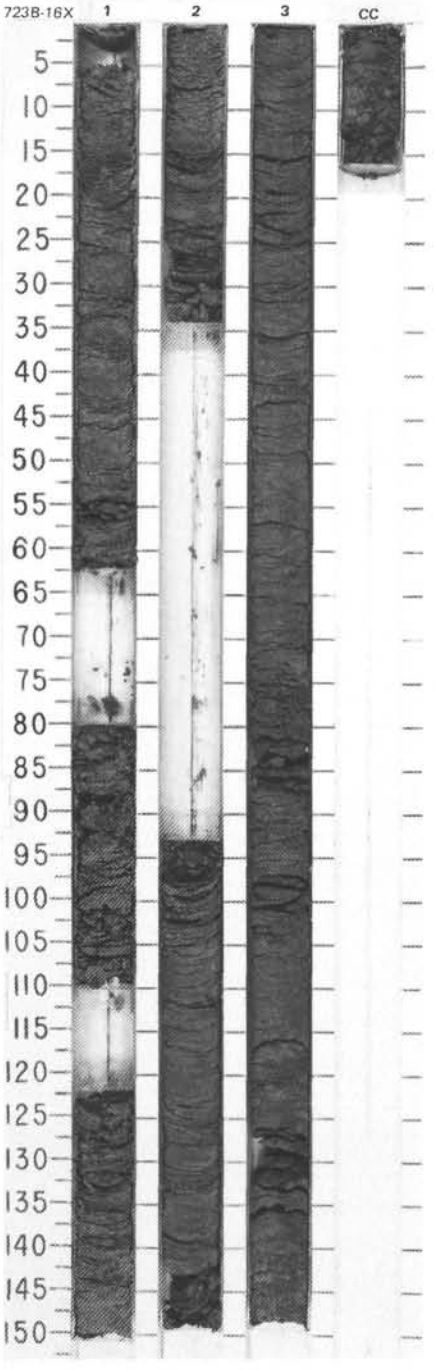
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Entire core slightly disturbed by gas expansion. Numerous voids. Sediment appears continuous across voids.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2), faintly mottled. Foraminifers less common on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	2, 60 D	2, 120 D
TEXTURE:		
Silt	25	60
Clay	75	40
COMPOSITION:		
Access. minerals	2	5
Clay	20	25
Dolomite		2
Feldspar		1
Foraminifers	3	7
Inorganic calcite	20	30
Nannofossils	50	15
Pyrite		5
Quartz	5	10



TIME-ROCK UNIT: PLEISTOCENE

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

PALEOMAGNETICS: ○ ◒ ○ ○ MATUYAMA

PHYS. PROPERTIES: ●ϕ=61.3 γ=1.65

CHEMISTRY

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID 152.7

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: ✱

LITHOLOGIC DESCRIPTION

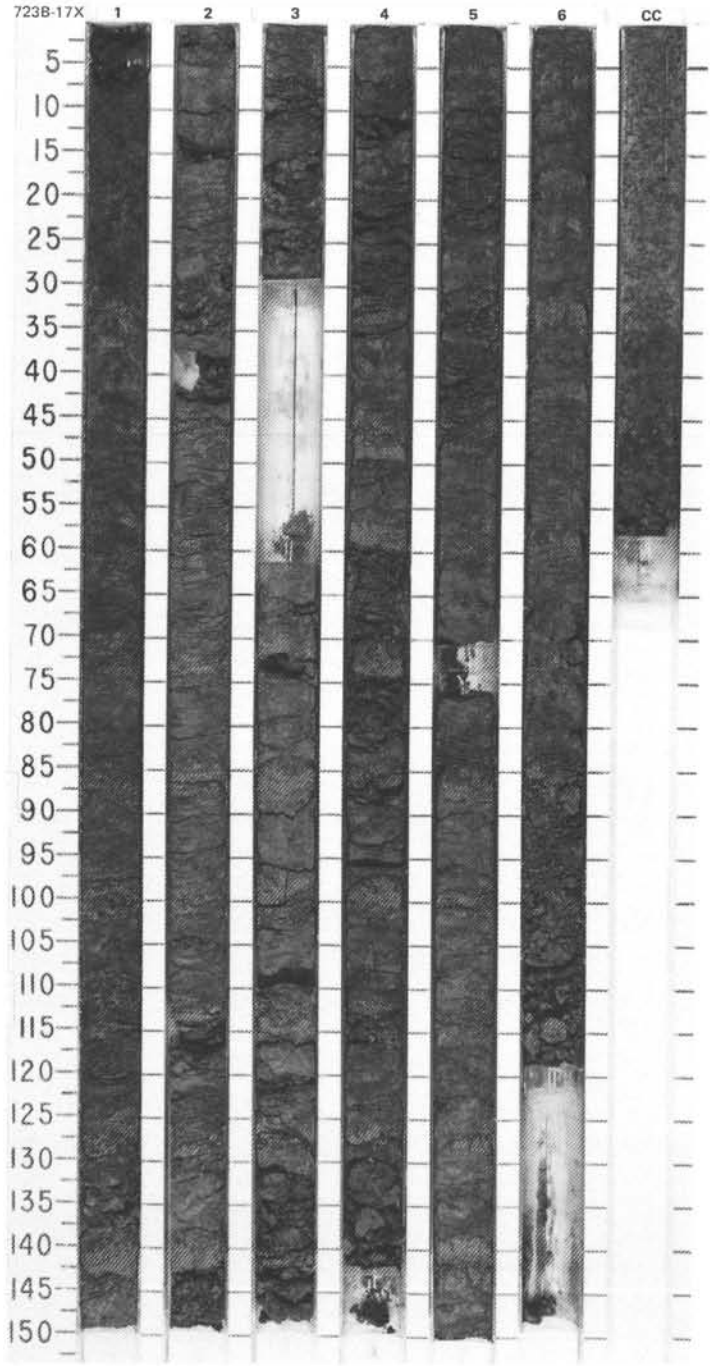
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Section 6, 84-116 cm, very disturbed. Entire core slightly disturbed by gas expansion. Numerous voids. Sediment appears continuous across voids.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2) and dark olive gray (5Y 3/2), faintly mottled. Foraminifers less common on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	2, 109 D
TEXTURE:	
Sand	15
Silt	40
Clay	45
COMPOSITION:	
Clay	20
Foraminifers	10
Inorganic calcite	10
Nannofossils	55
Quartz	5



SITE 723 HOLE B CORE 18X CORED INTERVAL 964.8-974.4 mbsl: 158.6-168.2 mbsf

TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS *A/G; NANNOFOSSILS NN19 *Pseudoemiliania lacunosa*; RADIOLARIANS; DIATOMS; PALEOMAGNETICS; PHYS. PROPERTIES; CHEMISTRY

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID 160.4; VOID 160.77; VOID 162.02; VOID 163.02; VOID 163.8; VOID 163.94

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES

LITHOLOGIC DESCRIPTION

FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

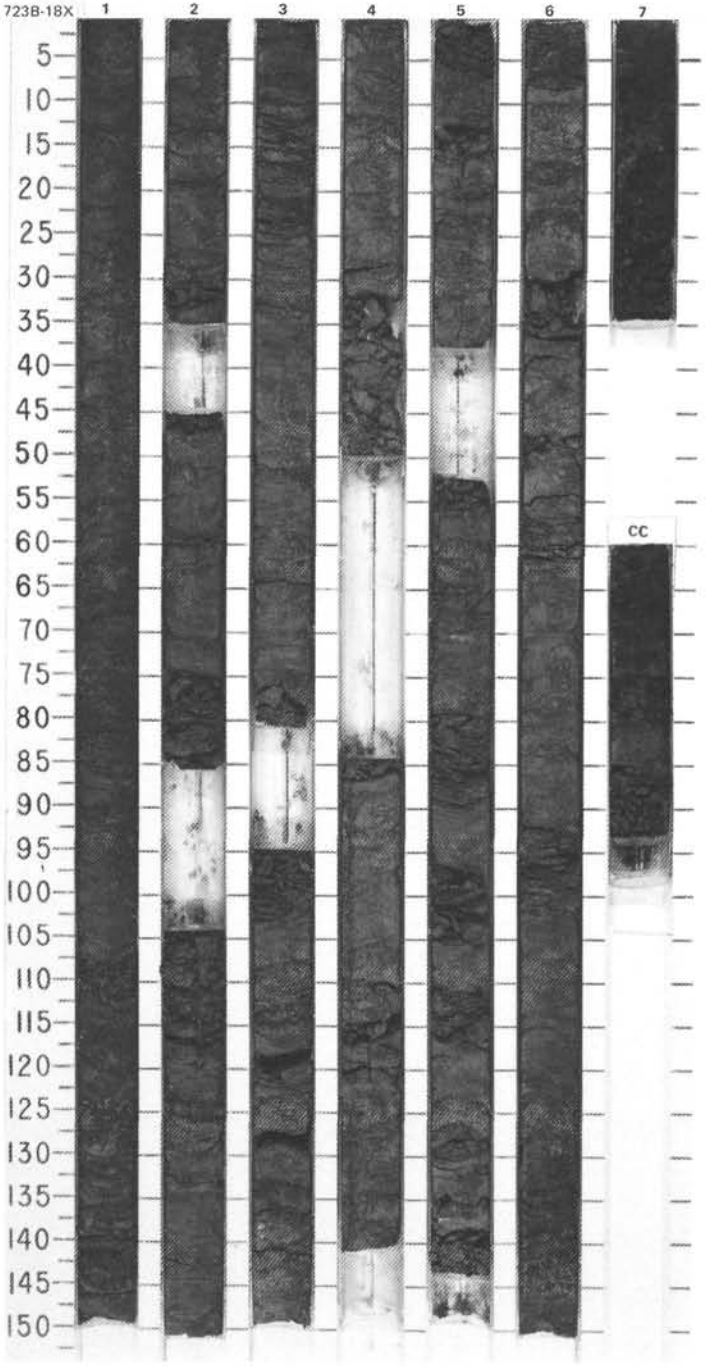
Entire core slightly disturbed by gas expansion. Numerous voids. Sediment appears continuous across voids.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2) and dark olive gray (5Y 3/2); no evidence of bioturbation. Foraminifers less common on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

Minor lithologies:
a. Parallel laminae, individual light and dark layers (varves?). Light layers are composed of diatom ooze, in Section 2, 120-150 cm, and Section 3, 0-70 cm. Foraminifers rare in laminated layer.
b. Dark grayish brown (2.5Y 3/2) clay layer 0.5 cm thick, altered ash layer(?), at Section 5, 70 cm.

SMEAR SLIDE SUMMARY (%):

	1, 100 D	3, 15 M	3, 16 D	5, 70 M
TEXTURE:				
Silt	30	10	10	10
Clay	70	90	90	90
COMPOSITION:				
Access. minerals			2	
Clay	25	25	20	54
Diatoms	Tr	65	60	
Foraminifers	7			3
Inorganic calcite	20	5	5	3
Mica		Tr		
Nannofossils	40		10	
Organic debris		Tr		
Other				40
Pellets	3			
Pyrite		2		
Quartz	5	3	3	



SITE 723 HOLE B CORE 19X CORED INTERVAL 974.4-984.1 mbsl; 168.2-177.9 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
PLEISTOCENE	* A/G-M	NN19 *Pseudoemiliania lacunosa*			O	●ϕ -57.8 γ -1.74		1	0.5				*
									1.0				
								2					
								3		VOID 172.52			*
								4		VOID 172.87			
										VOID 173.51			
								5		VOID 173.74			
										VOID 174.23			
										VOID 174.56			
								6		VOID 174.83			
										VOID 175.08			
								7					*
								CC					

LITHOLOGIC DESCRIPTION

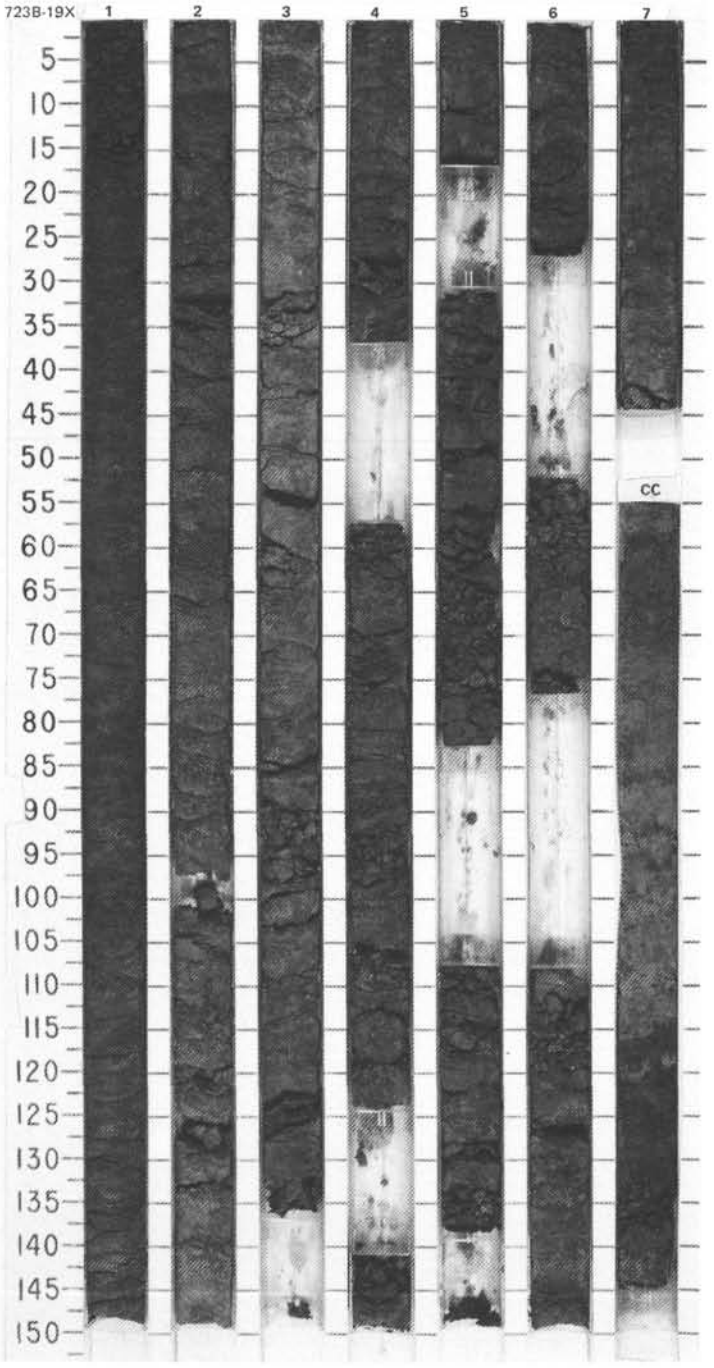
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Section 1, 0-15 cm, and Sections 5-6 are heavily disturbed, remainder slightly disturbed by gas expansion. Numerous voids, sediment begins to separate into firm clasts and crumbs. Sediment appears continuous across voids.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/3, 4/2) and dark olive gray (5Y 3/2, 3/3); no evidence of bioturbation. Foraminifers less common on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	1, 86 D	3, 80 D	7, 39 D
TEXTURE:			
Sand		15	20
Silt	40	25	25
Clay	60	60	55
COMPOSITION:			
Access. minerals		Tr	2
Clay	40	25	25
Diatoms	10		
Dolomite		Tr	1
Feldspar		2	1
Foraminifers		5	1
Volcanic glass		Tr	
Gypsum	Tr		
Inorganic calcite	40	20	30
Mica	3	Tr	Tr
Nannofossils		35	20
Organic debris	2		
Quartz	5	13	20
Radiolarians	Tr		
Sponge spicules	Tr	Tr	



SITE 723 HOLE B CORE 20X CORED INTERVAL 984.1-993.8 mbsl; 177.9-187.6 mbsf

TIME-ROCK UNIT: PLEISTOCENE

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

PALEOMAGNETICS; PHYS. PROPERTIES: ● ϕ=60.6 γ=1.66

CHEMISTRY

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

VOID 178.4
VOID 179.12
VOID 179.63
VOID 180.32
VOID 180.96
VOID 182.81
VOID 182.94
VOID 183.15
VOID 183.82
VOID 184.13

DRILLING DISTURB.

SED. STRUCTURES: *

SAMPLES: *

LITHOLOGIC DESCRIPTION

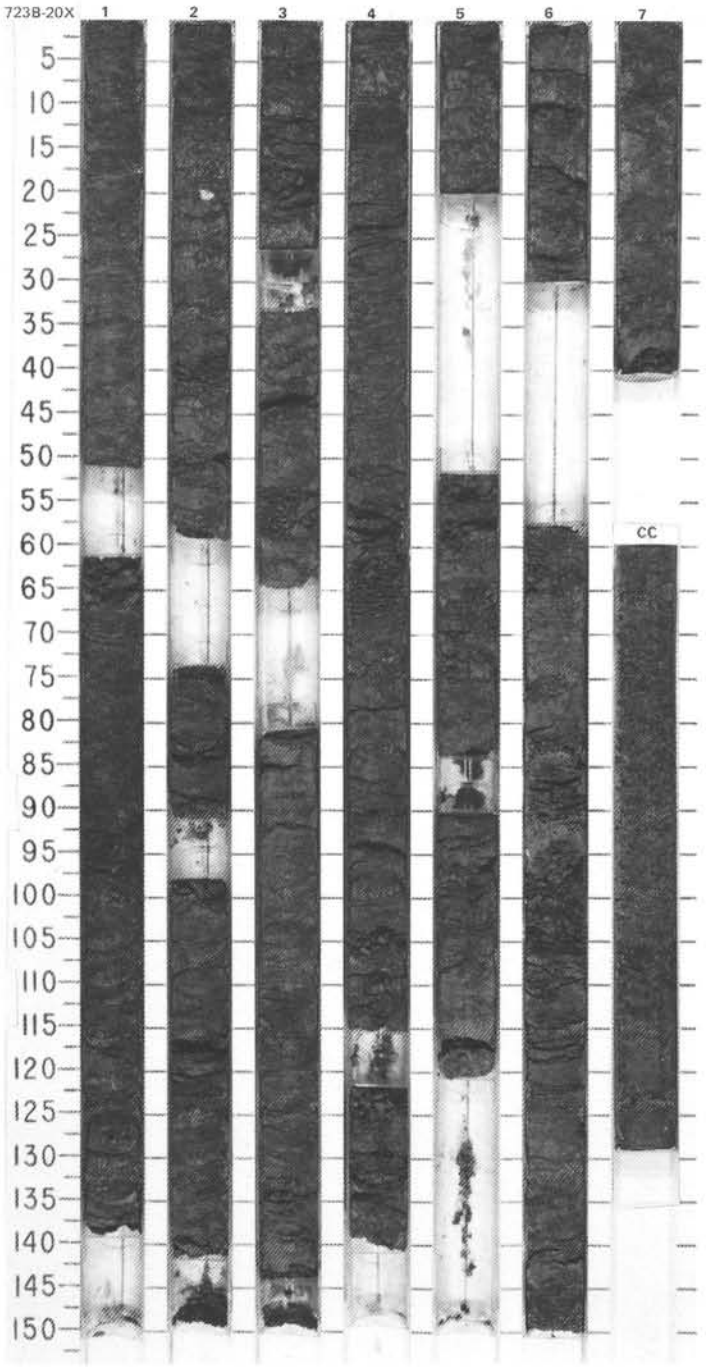
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Entire core slightly disturbed by gas expansion. Numerous voids. Sediment appears continuous across voids.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2), faintly mottled. Foraminifers present on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

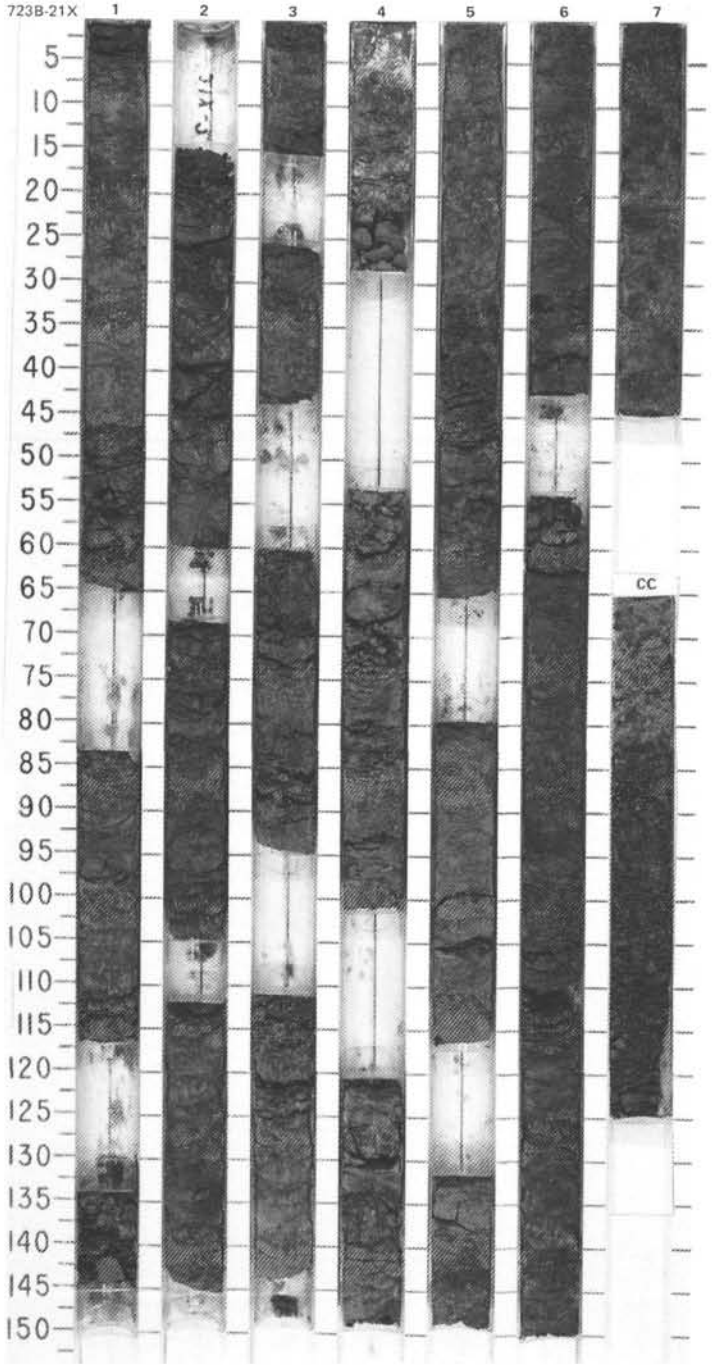
SMEAR SLIDE SUMMARY (%):

	1, 127 D	7, 15 D
TEXTURE:		
Sand	10	15
Silt	20	30
Clay	70	55
COMPOSITION:		
Access. minerals	4	Tr
Clay	20	25
Dolomite		Tr
Foraminifers	6	2
Inorganic calcite	10	25
Nannofossils	50	30
Quartz	10	18



SITE 723 HOLE B CORE 21X CORED INTERVAL 993.8-1003.5 mbsl; 187.6-197.3 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
PLEISTOCENE	* A/M	NN19 *Pseudoemiliania lacunosa*				●ϕ=48.3 γ=1.91		1	0.5	VOID 188.22				FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT
									1.0	VOID 188.53				Core moderately disturbed by gas expansion. Numerous voids.
										VOID 188.63				Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2, 4/3). Foraminifers visible on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.
								2		VOID 189.11		1		SMEAR SLIDE SUMMARY (%):
										VOID 190.4				3, 38 D / 7, 19 D
								3		VOID 190.23				TEXTURE:
										VOID 190.54			*	Sand 15 10
								4		VOID 191.22				Silt 40 40
										VOID 191.7				Clay 45 50
								5		VOID 192.61				COMPOSITION:
										VOID 192.97				Access. minerals 2 3
								6		VOID 193.55				Clay 25 25
								7					*	Dolomite 1 Tr
								CC						Foraminifers 1 1
														Volcanic glass Tr
														Inorganic calcite 35 30
														Mica 1
														Nannofossils 20 25
														Quartz 15 15



SITE 723 HOLE B CORE 22X CORED INTERVAL 1003.5-1013.1 mbsl; 197.3-206.9 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
PLEISTOCENE	* A/M	NN19 *Pseudoemiliania lacunosa*				● ϕ-56.6 γ-1.73		1	0.5	VOID 197.2			*
									1.0	VOID196.66			
								2		VOID 199.59			
										VOID 200.2			
								3		VOID 200.52			
										VOID201.11			
								4		VOID201.45			
										VOID202.16			
								5		VOID202.51			
										VOID 203.2			
								6					*
								CC					

LITHOLOGIC DESCRIPTION

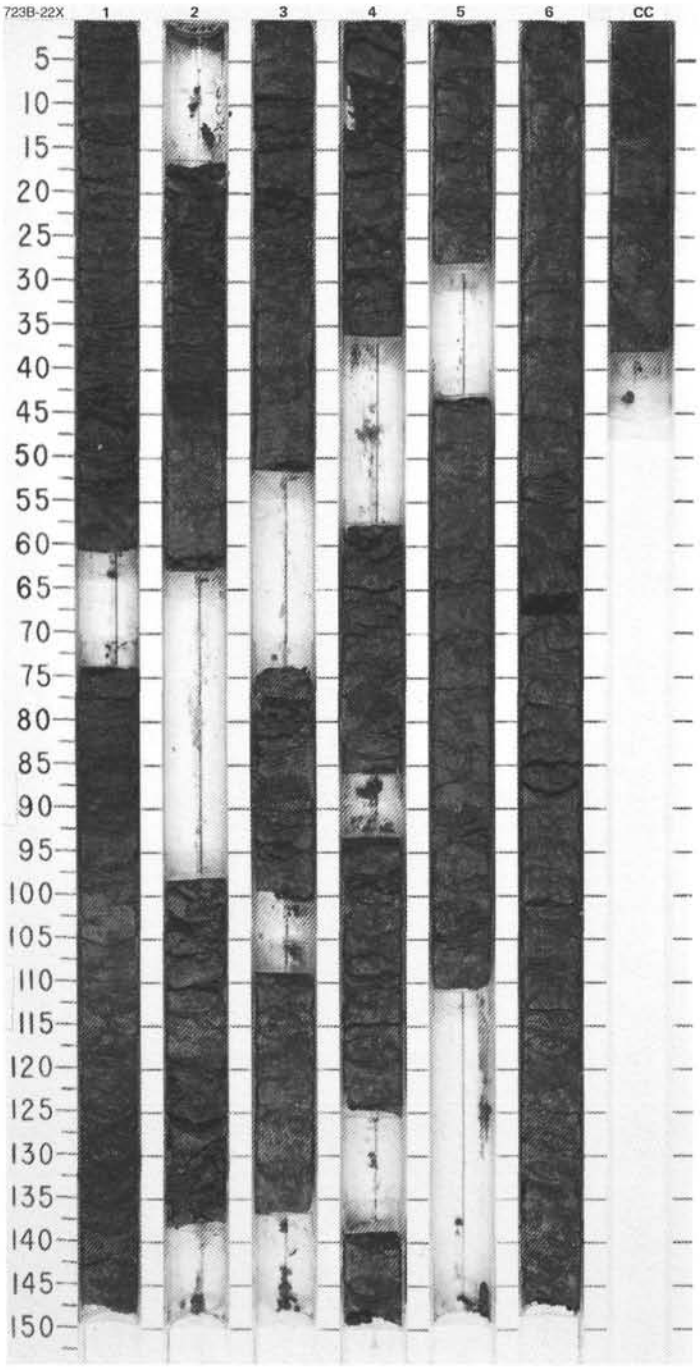
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Core moderately disturbed by gas expansion. Numerous voids.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2). Foraminifers visible on core face in Section 1. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	1, 115 D	6, 17 D
TEXTURE:		
Sand	15	15
Silt	35	25
Clay	50	60
COMPOSITION:		
Access. minerals	2	3
Clay	25	25
Dolomite	Tr	Tr
Foraminifers	8	2
Inorganic calcite	25	20
Nannofossils	25	35
Quartz	15	15
Sponge spicules	Tr	Tr



SITE 723 HOLE B CORE 23X CORED INTERVAL 1013.1-1022.7 mbsl; 206.9-216.5 mbsf

TIME-ROCK UNIT: PLEISTOCENE

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

PALEOMAGNETICS; PHYS. PROPERTIES: ●ϕ-58.4 γ-1.71; CHEMISTRY

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID 207.56; VOID 212.29; VOID 214.29

DRILLING DISTURB.; SED. STRUCTURES; SAMPLES

LITHOLOGIC DESCRIPTION

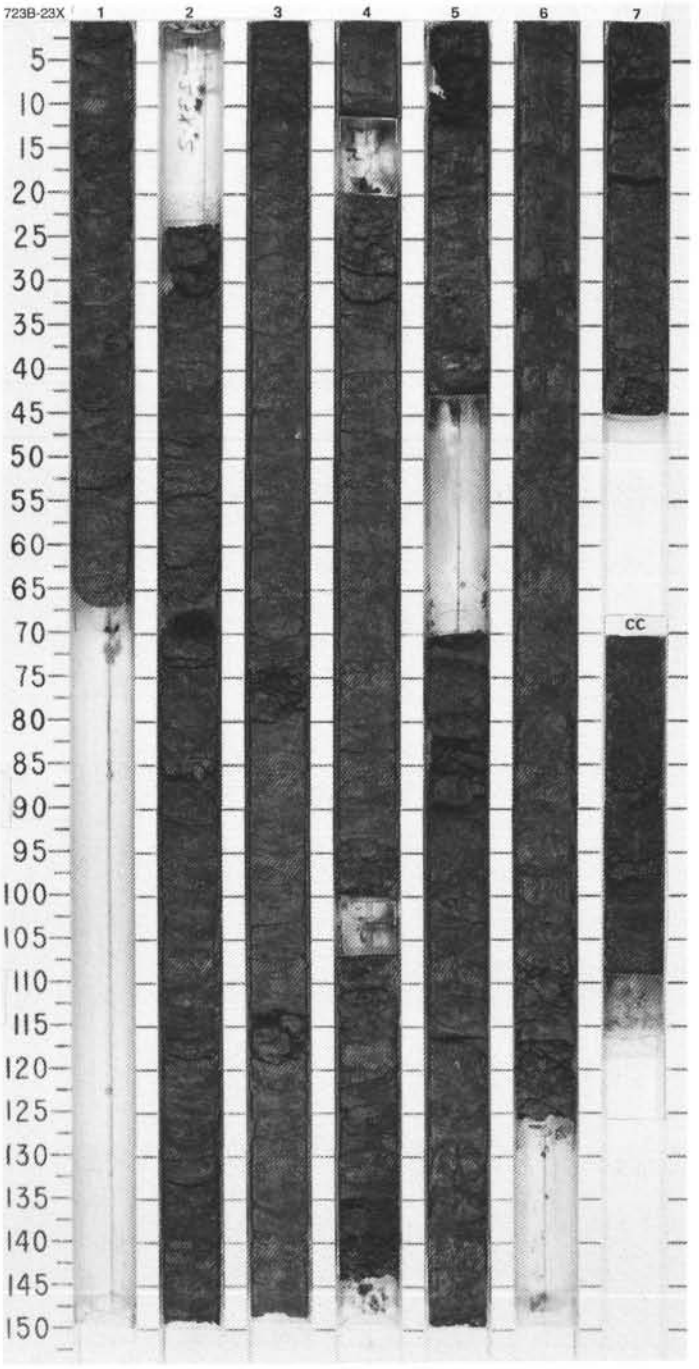
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Core moderately disturbed by gas expansion. Numerous voids.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2), faintly mottled in Section 5. Foraminifers less common on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	1, 28 D	6, 28 D
TEXTURE:		
Sand	10	20
Silt	25	25
Clay	65	55
COMPOSITION:		
Access. minerals	5	3
Clay	25	20
Dolomite	Tr	
Foraminifers	5	5
Glauconite	Tr	
Gypsum		Tr
Inorganic calcite	20	30
Nannofossils	40	35
Organic debris		2
Quartz	5	5
Radiolarians	Tr	Tr
Sponge spicules	Tr	Tr



SITE 723 HOLE B CORE 24X CORED INTERVAL 1022.7-1032.4 mbsl; 216.5-226.2 mbsf

TIME-ROCK UNIT: PLEISTOCENE

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

PALEOMAGNETICS: O Matuyama O O

PHYS. PROPERTIES: ●ϕ ●61.6 γ 1.59

CHEMISTRY

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

VOID 217.25

VOID 219.12

VOID 219.23

VOID 219.63

VOID 219.99

VOID 222.37

VOID 222.92

DRILLING DISTURBS.

SED. STRUCTURES: (?)

SAMPLES: *

LITHOLOGIC DESCRIPTION

FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

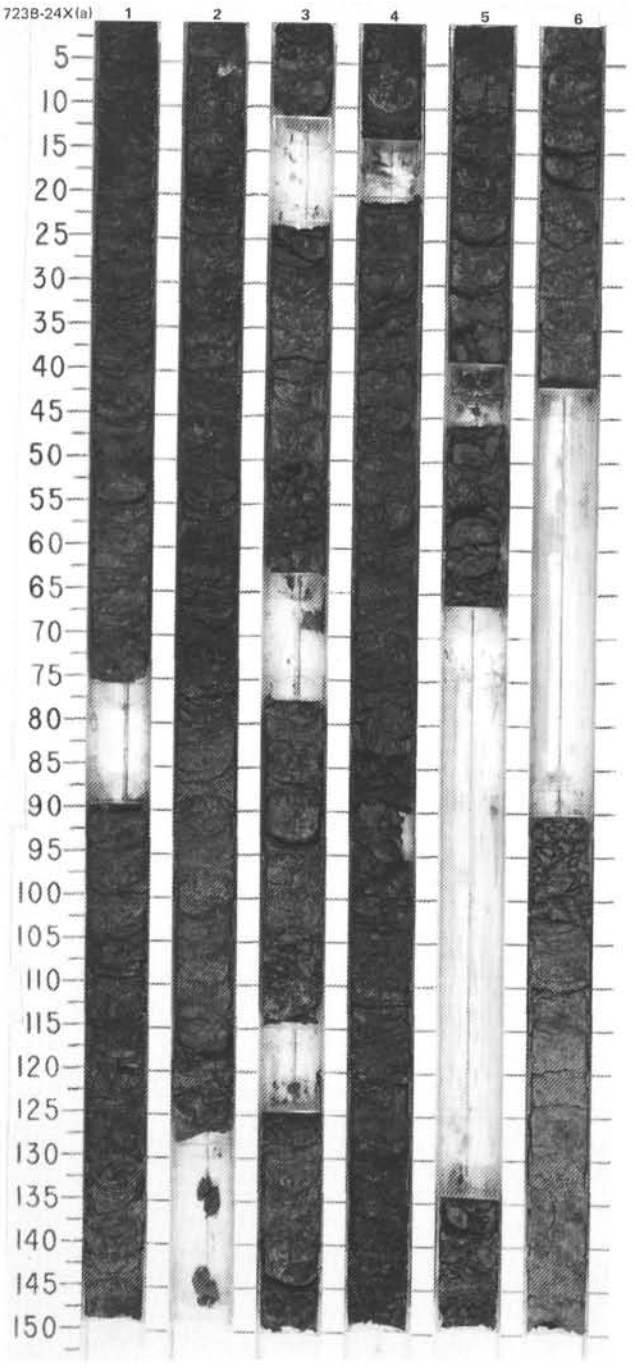
Core moderately disturbed by gas expansion. Numerous voids.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2, 4/3) and dark olive gray (5Y 3/2), Section 1 faintly mottled. Foraminifers less common on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

Minor lithology: Faint parallel-laminated light and dark layers (0.5 cm thick) preserved in drilling biscuits, Section 2, 57-77 cm.

SMEAR SLIDE SUMMARY (%):

	1, 73 D	7, 17 D
TEXTURE:		
Sand	15	25
Silt	25	45
Clay	60	30
COMPOSITION:		
Access. minerals	3	5
Clay	25	15
Dolomite		Tr
Foraminifers	2	Tr
Volcanic glass	Tr	
Glauconite	Tr	
Inorganic calcite	30	35
Nannofossils	35	15
Quartz	5	30



SITE 723 HOLE B CORE 24X CORED INTERVAL 1022.7-1032.4 mbsl; 216.5-226.2 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	LITHOLOGIC DESCRIPTION
		*A/M						7	0.5			*		
								CC	1.0					

SITE 723 HOLE B CORE 25X CORED INTERVAL 1032.4-1042.1 mbsl; 226.2-235.9 mbsf

TIME-ROCK UNIT: PLEISTOCENE

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

PALEOMAGNETICS: Matuyama

PHYS. PROPERTIES: ●ϕ=58.7 γ=1.88

CHEMISTRY

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY:
- VOID 227.01
- VOID 227.97
- VOID227.12
- VOID229.67
- VOID 231.32
- VOID 232.84
- VOID233.02

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: *

LITHOLOGIC DESCRIPTION

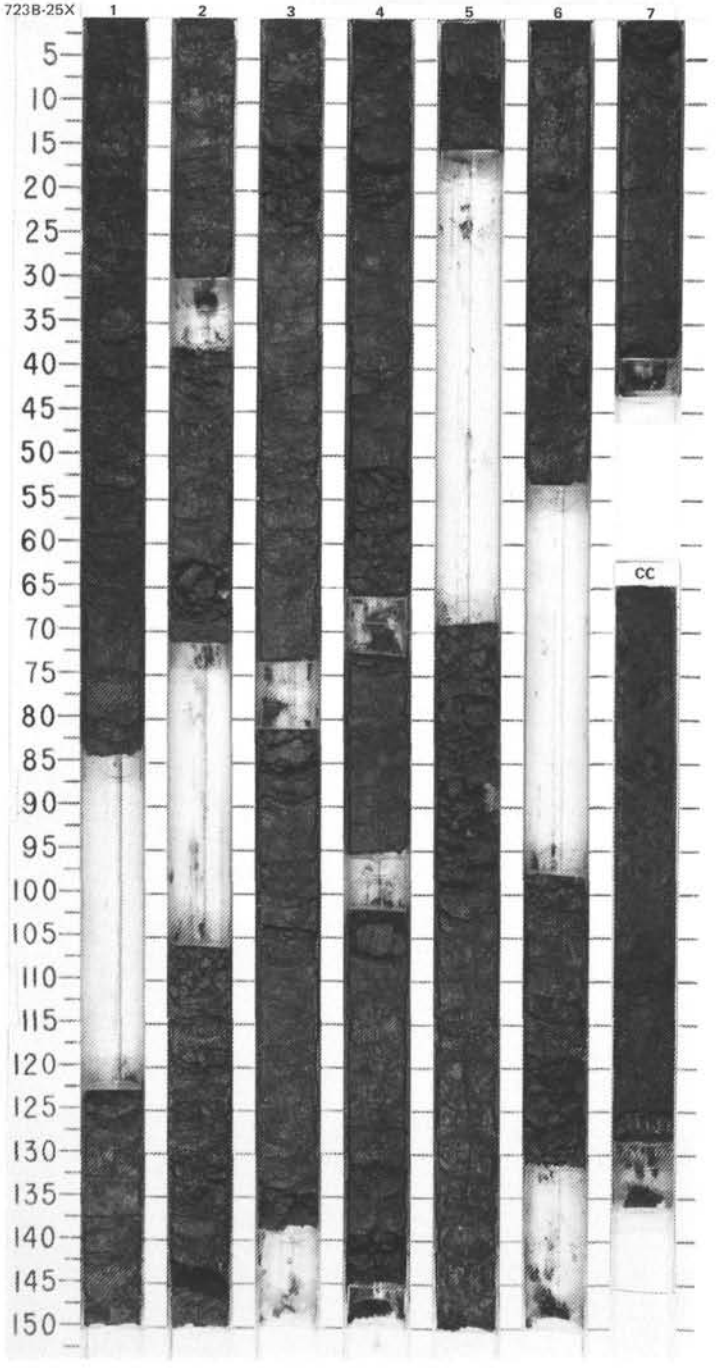
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Core moderately disturbed by gas expansion. Numerous voids.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2) and dark olive gray (5Y 3/2), faintly mottled in Section 4 and CC.

SMEAR SLIDE SUMMARY (%):

	1, 18 D	6, 13 D
TEXTURE:		
Sand	20	15
Silt	25	35
Clay	55	50
COMPOSITION:		
Access. minerals	3	2
Clay	35	30
Dolomite		Tr
Foraminifers	5	3
Inorganic calcite	22	25
Nannofossils	20	20
Organic debris	5	5
Quartz	10	15
Radiolarians	Tr	
Sponge spicules	Tr	Tr



SITE 723 HOLE B CORE 26X CORED INTERVAL 1042.1-1051.8 mbsl; 235.9-245.6 mbsf

TIME-ROCK UNIT: PLEISTOCENE

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

PALEOMAGNETICS: O Matuyama

PHYS. PROPERTIES: ●ϕ ●58.7 γ 1.69

CHEMISTRY

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID 236.1; VOID 238.66; VOID 239.66; VOID 240.41; VOID 240.72

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: *

LITHOLOGIC DESCRIPTION

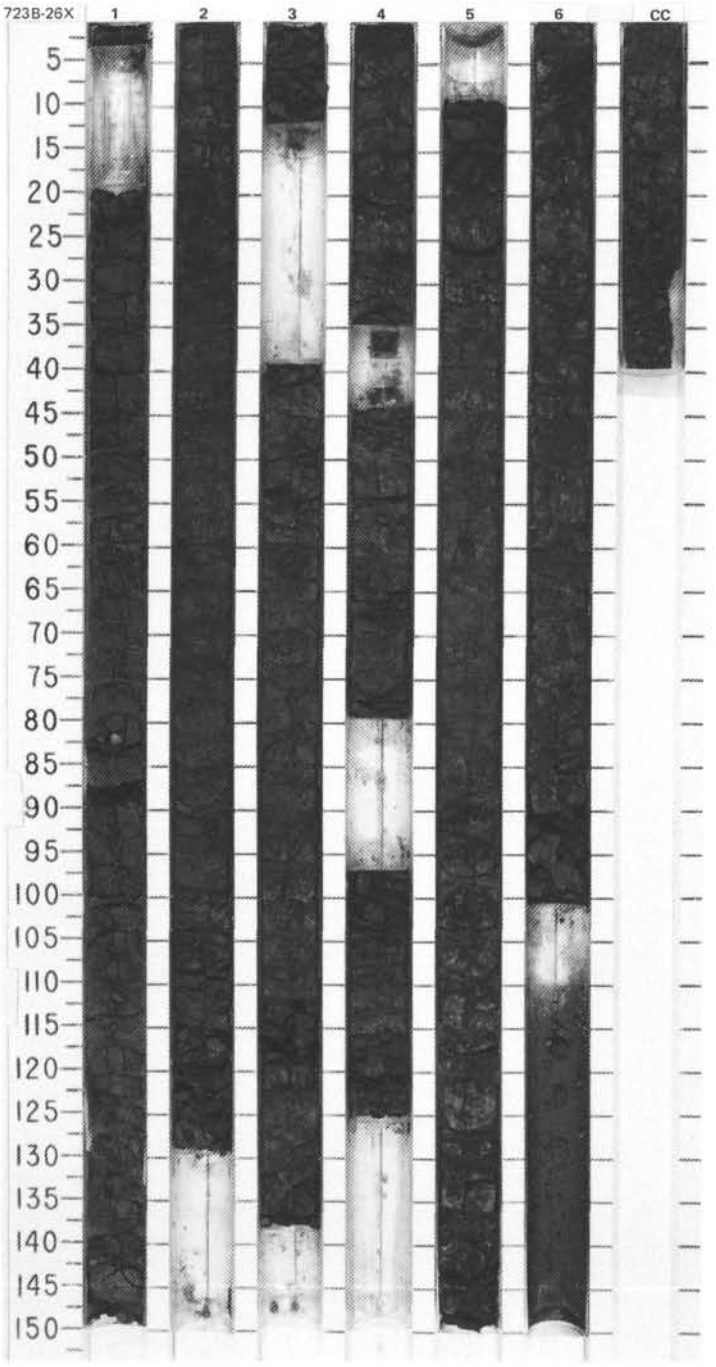
FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT

Section 1 cut with saw, heavily broken up. Remainder moderately disturbed by gas expansion. Numerous voids.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL OOZE and CALCAREOUS CLAYEY SILT, dark olive gray (5Y 3/2), faintly mottled in Section 4. Foraminifers less common on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	1, 97 D	5, 59 D
TEXTURE:		
Sand	15	20
Silt	35	20
Clay	50	60
COMPOSITION:		
Access. minerals	3	2
Clay	25	25
Foraminifers	2	1
Inorganic calcite	30	27
Mica	Tr	
Nannofossils	25	35
Organic debris	5	
Quartz	10	10
Sponge spicules	Tr	Tr



SITE 723 HOLE B CORE 27X CORED INTERVAL 1051.8-1053.45 mbsl; 245.6 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
PLEISTOCENE		NN19 *Pseudoemiliania lacunosa* * A/M-P				φ=59.2 γ=1.71 • γ=2.77 •		1	0.5, 1.0	VOID 246.3			*
								CC					* TS

LITHOLOGIC DESCRIPTION

CALCAREOUS CLAYEY SILT and DOLOMITIC LIMESTONE

Section 1 is moderately to heavily disturbed. Two voids.

Major lithologies: CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2). Foraminifers rare on core face. Dolomitic limestone, 40 cm (broken into three clasts), recovered in CC.

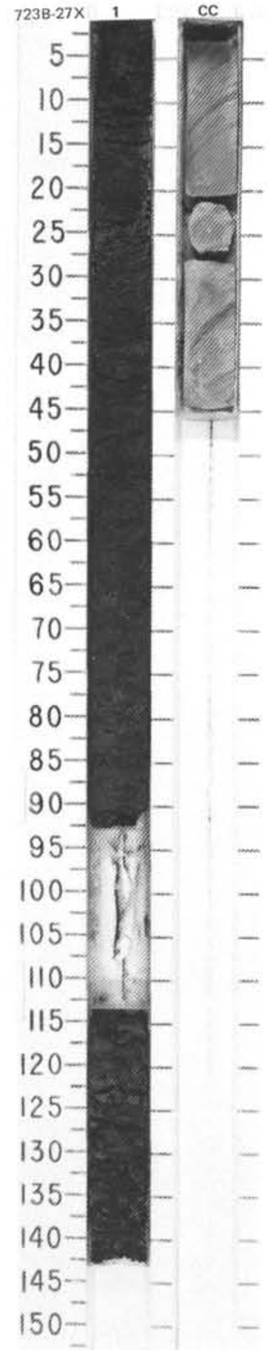
SMEAR SLIDE SUMMARY (%):

	1, 53 D	CC, 16 D(TS)
TEXTURE:		
Sand	10	30
Silt	30	45
Clay	60	25
COMPOSITION:		
Access. minerals	2	
Cement		25
Clay	33	25
Dolomite	Tr	25
Foraminifers	Tr	25
Volcanic glass	Tr	
Inorganic calcite	30	
Nannofossils	25	
Quartz	10	

CORE 117–723B–28X NO RECOVERY

CORE 117–723B–29X NO RECOVERY

CORE 117–723B–30X NO RECOVERY



SITE 723 HOLE B CORE 31X CORED INTERVAL 1099.9-1109.5 mbsl; 293.7-303.3 mbsf

TIME-ROCK UNIT: PLIOCENE

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

PALEOMAGNETICS

PHYS. PROPERTIES: ●ϕ-56.7 γ-1.73

CHEMISTRY

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID 294.52; VOID 295.93; VOID 296.03; VOID 296.38; VOID 296.66; VOID 296.88; VOID 297.45; VOID 297.85

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES

LITHOLOGIC DESCRIPTION

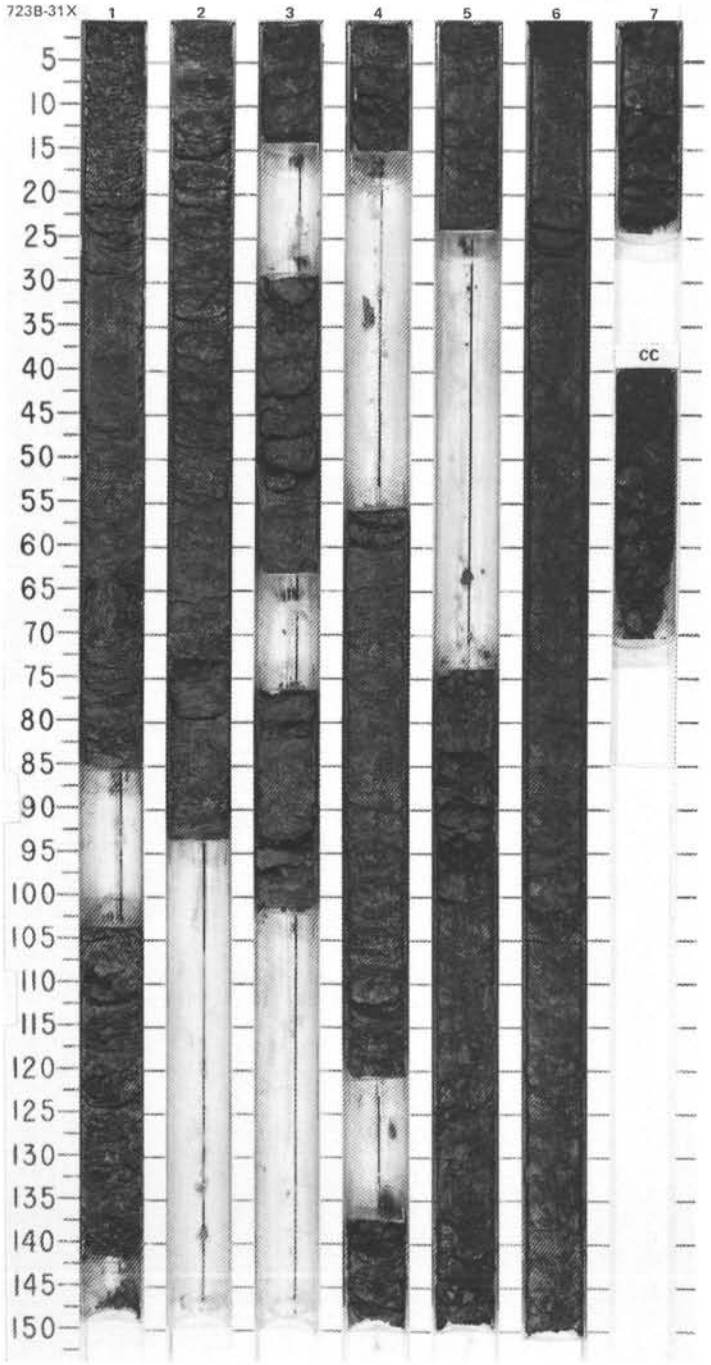
FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE

Section 1, 0-25 cm, heavily disturbed, remainder moderately disturbed by gas expansion. Firm intervals separate into clasts. Numerous voids.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE, olive gray (5Y 4/2) and dark olive gray (5Y 3/2), faintly mottled in Sections 1, 2, 5, and 6. Foraminifers present on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	1, 53 D	6, 54 D
TEXTURE:		
Sand	5	20
Silt	20	30
Clay	75	50
COMPOSITION:		
Access. minerals	2	2
Clay	30	25
Foraminifers	2	3
Inorganic calcite	10	25
Mica	1	
Nannofossils	45	25
Quartz	10	20
Sponge spicules	Tr	



CORE 117–723B–32X NO RECOVERY

SITE 723 HOLE B CORE 33X CORED INTERVAL 1119.2-1123.6 mbsl; 313.0-317.4 mbsf

TIME-ROCK UNIT	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLIOCENE		* A/M NN19 *Pseudoemiliania lacunosa*			•	• γ-2.71 • ϕ=62.6 γ=1.66		1	0.5 VOID 313.29 1.0 VOID 313.54				
								2					*
					•			3					*
								CC					

FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE

Core moderately disturbed by gas expansion. Firm intervals separate into clasts which crumble readily. Cut with wire to preserve laminae. Numerous voids.

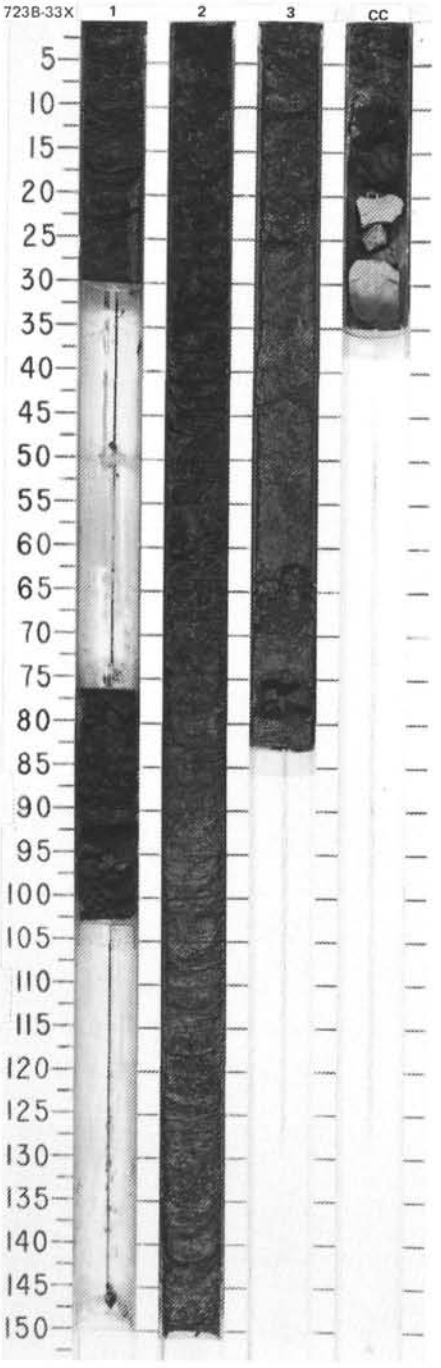
Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE, olive gray (5Y 4/2) and dark olive gray (5Y 3/2, 2.5/2). Foraminifers present on core face. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

Minor lithologies:
a. Parallel laminae, individual light and dark layers, 0.1-1.0 mm thick. Light layers are composed of diatomaceous mud, in Section 1, 85-93 cm, Section 2, 52-150 cm, and Section 3, 0-12 cm.
b. Dolomitic limestone with faint burrow structures. Dark gray (5Y 4/1), in CC, 18-34 cm.

SMEAR SLIDE SUMMARY (%):

	2, 22 D	3, 25 D
TEXTURE:		
Sand	20	20
Silt	40	20
Clay	40	60
COMPOSITION:		
Access. minerals	1	1
Clay	25	20
Diatoms	Tr	Tr
Dolomite	Tr	
Feldspar	2	
Foraminifers	Tr	4
Inorganic calcite	30	20
Nannofossils	15	40
Organic debris	2	
Quartz	25	15
Radiolarians	Tr	Tr
Sponge spicules	Tr	

CORE 117–723B–34X NO RECOVERY



SITE 723 HOLE B CORE 35X CORED INTERVAL 1128.9-1138.7 mbsl; 322.7-332.5 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
PLIOCENE	*A/G	NN19 *Pseudoemiliania lacunosa*				●ϕ=62.2 γ=1.67		1	0.5, 1.0	VOID 323.95			*
								2		VOID 324.22			
								3					
								CC					

LITHOLOGIC DESCRIPTION

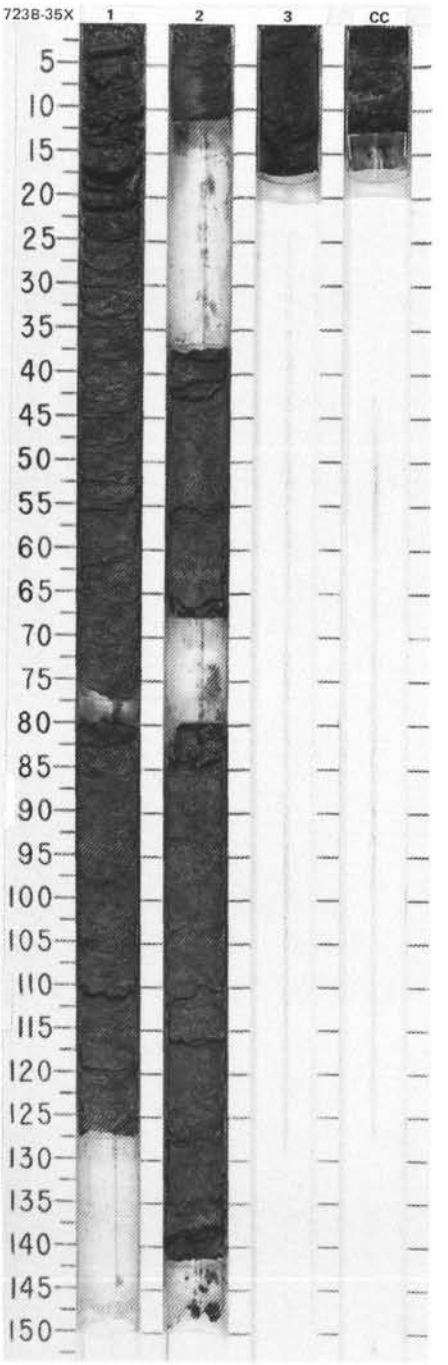
FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE

Core moderately disturbed by gas expansion. Firm intervals separate into clasts. Numerous voids.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE, olive gray (5Y 4/2). No mottling or burrow structures observed. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	1, 108 D
TEXTURE:	
Sand	10
Silt	15
Clay	75
COMPOSITION:	
Access. minerals	2
Clay	30
Diatoms	1
Foraminifers	2
Inorganic calcite	15
Nannofossils	45
Quartz	5
Sponge spicules	Tr



SITE 723 HOLE B CORE 36X CORED INTERVAL 1138.7-1148.4 mbsl; 332.5-342.2 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
PLIOCENE		NN19 *Pseudoemiliania lacunosa* * A/M			•	ϕ=60.3 γ=1.68 •		1 CC	0.5 1.0				*

LITHOLOGIC DESCRIPTION

FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE

Section 1, 0-9 cm, heavily disturbed; remainder moderately disturbed by gas expansion. Firm intervals separate into clasts.

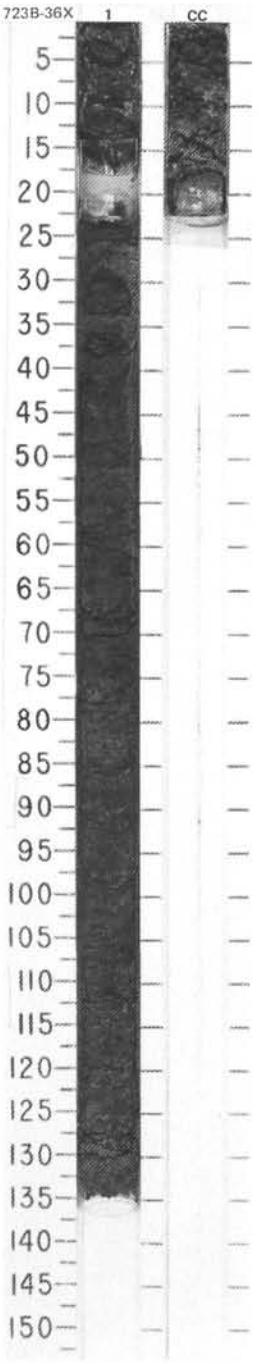
Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE, dark olive gray (5Y 3/2), Section 1 faintly mottled. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

Minor lithology: Dolomitic limestone, with minor parallel laminations. Recrystallized diatoms and broken foraminifers present. Clastic component is predominantly clay, in bottom of CC, 18-22 cm.

SMEAR SLIDE SUMMARY (%):

	1, 94 D
TEXTURE:	
Sand	10
Silt	20
Clay	70
COMPOSITION:	
Access. minerals	2
Clay	20
Diatoms	Tr
Dolomite	Tr
Foraminifers	1
Volcanic glass	Tr
Inorganic calcite	22
Nannofossils	50
Quartz	5
Radiolarians	Tr
Sponge spicules	Tr

CORE 117–723B–37X NO RECOVERY



SITE 723 HOLE B CORE 38X CORED INTERVAL 1158.1-1167.8 mbsl; 351.9-361.6 mbsf

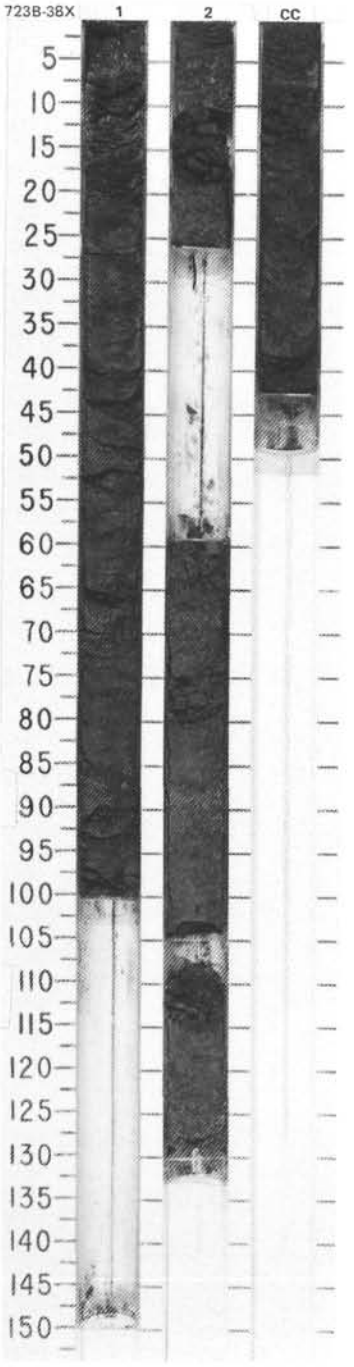
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
PLIOCENE		*CM NN18 *Discoaster brouweri*						1	0.5 / 1.0	VOID 352.9				FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE
								2		VOID 353.13			*	
								CC				1		

Section 1, 0-20 cm, soupy and heavily disturbed; remainder moderately disturbed by gas expansion. Firm intervals separate into clasts. Numerous voids.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE, olive gray (5Y 4/2) and dark olive gray (5Y 3/2). CC faintly mottled. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	2, 94 D
TEXTURE:	
Sand	20
Silt	25
Clay	55
COMPOSITION:	
Access. minerals	2
Clay	25
Feldspar	1
Foraminifers	2
Inorganic calcite	20
Nannofossils	30
Quartz	20
Sponge spicules	Tr



SITE 723 HOLE B CORE 39X CORED INTERVAL 1167.8-1177.5 mbsl; 361.6-371.3 mbsf

TIME-ROCK UNIT: PLIOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS *C/P; NANNOFOSSILS NN18 *Discoaster brouweri*; RADIOLARIANS; DIATOMS

PALEOMAGNETICS

PHYS. PROPERTIES: ●ϕ-56.1 γ-1.81

CHEMISTRY

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID 362.42; VOID 363.02; VOID 363.47; VOID 364.07; VOID 364.72; VOID 364.85; VOID 365.42

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES

LITHOLOGIC DESCRIPTION

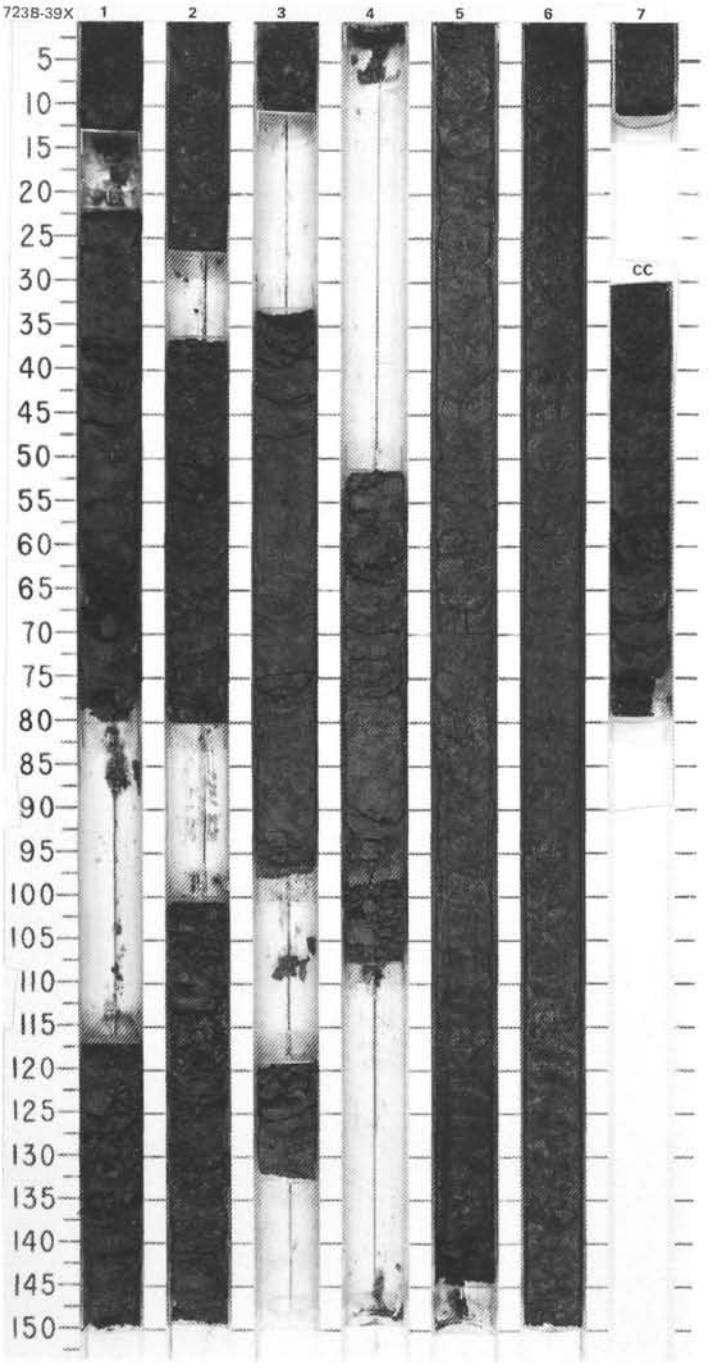
FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE

Section 1, 0-10 cm, heavily disturbed, remainder moderately disturbed by gas expansion. Firm intervals separate into clasts. Sediment crumbles adjacent to voids.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE, olive gray (5Y 4/2, 4/3) and dark olive gray (5Y 3/2, 2.5/2). Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	3, 54 D	5, 26 D
TEXTURE:		
Sand	20	10
Silt	35	50
Clay	45	40
COMPOSITION:		
Access. minerals	1	2
Clay	25	30
Dolomite	Tr	Tr
Foraminifers	4	
Volcanic glass		Tr
Glauconite		Tr
Inorganic calcite	35	28
Nannofossils	20	10
Organic debris		5
Quartz	15	25
Radiolarians		Tr



SITE 723 HOLE B CORE 40X CORED INTERVAL 1177.5-1187.2 mbsl; 371.3-381.0 mbsf

TIME-ROCK UNIT: PLIOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS * C/P; NANNOFOSSILS NN18 *Discoaster brouweri*; RADIOLARIANS; DIATOMS

PALEOMAGNETICS: ● γ-2.73

PHYS. PROPERTIES: ● ϕ-58.9 γ-1.67

CHEMISTRY

SECTION: 1, 2, 3, 4, CC

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID 371.82; VOID 371.93; VOID 372.16; VOID 372.36; VOID 372.53

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: *

LITHOLOGIC DESCRIPTION

FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE

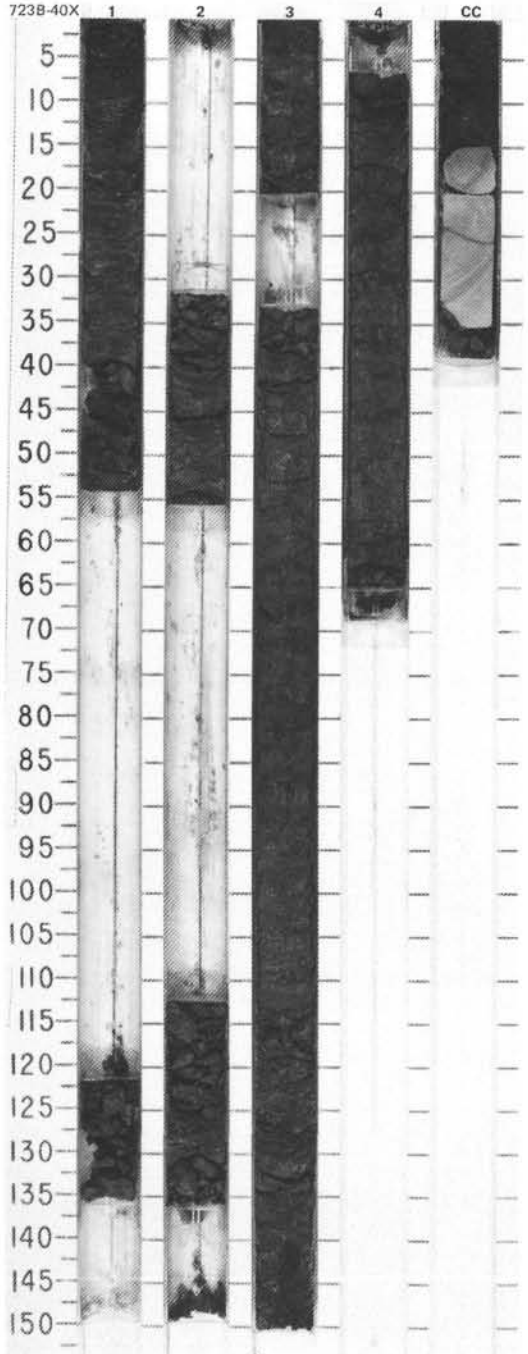
Section 1, heavily disturbed; remainder moderately to heavily disturbed by gas expansion. Firm intervals separate into clasts. Numerous voids.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE, olive gray (5Y 4/2) and dark olive gray (5Y 3/2), faint burrow mottles. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

Minor lithology: Dolomitic limestone. Fine grained, minor stylolite development, containing foraminifers, in bottom of CC, 15-38 cm.

SMEAR SLIDE SUMMARY (%):

	3, 54 D	CC D
TEXTURE:		
Sand	10	15
Silt	30	5
Clay	60	80
COMPOSITION:		
Access. minerals	2	
Cement		20
Clay	30	35
Diatoms	Tr	
Dolomite		25
Foraminifers	3	20
Inorganic calcite	25	
Nannofossils	30	
Phosphate	Tr	
Quartz	10	



SITE 723 HOLE B CORE 41X CORED INTERVAL 1187.2-1196.9 mbsl; 381.0-390.7 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
PLIOCENE	* C/P	NN18 *Discoaster brouweri*				● ϕ=58.6 γ=1.66		1	0.5				*
									1.0				
								2		VOID 383.21			*
										VOID 383.41			
								3		VOID 383.54			
										VOID 383.84			
										VOID 384.4			
								4					
								5					
								CC					

LITHOLOGIC DESCRIPTION

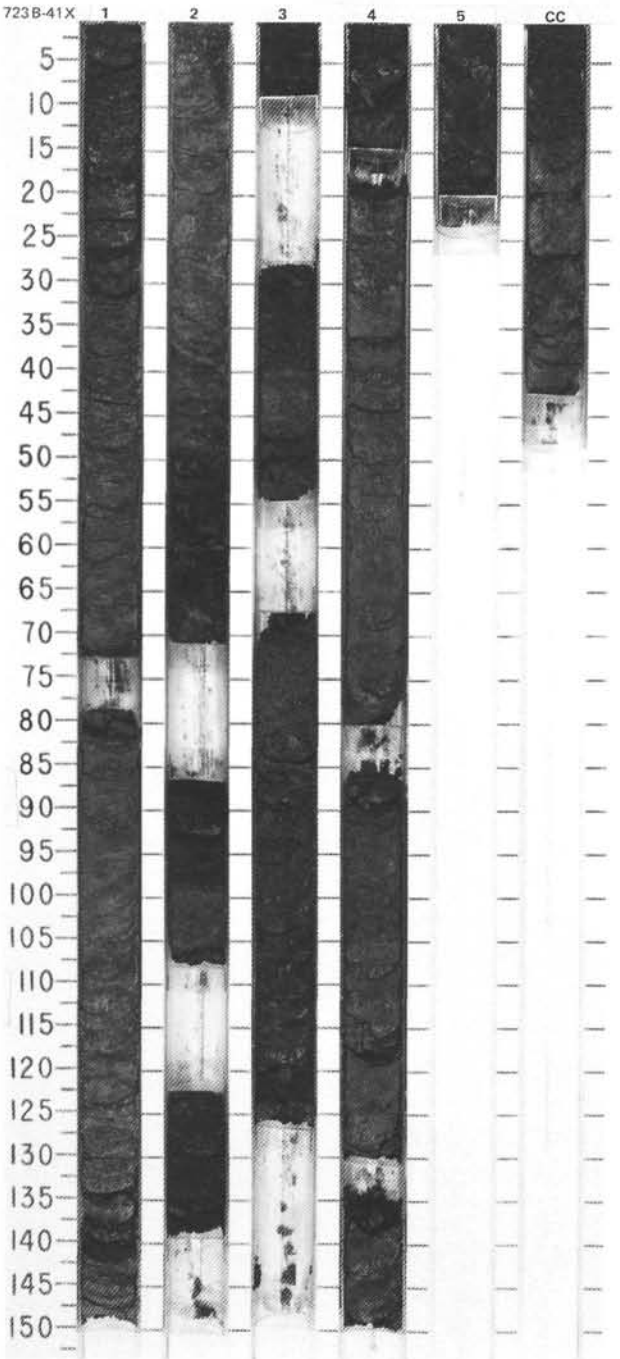
FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE

Core moderately disturbed by gas expansion. Firm intervals separate into clasts. Numerous voids.

Major lithologies: FORAMINIFER-BEARING MARLY NANNOFOSSIL CHALK and CALCAREOUS CLAYEY SILTSTONE, olive gray (5Y 4/2) and dark olive gray (5Y 3/2, 3/1), irregular light and dark layers. Foraminifers present on core face. Variable terrigenous component dominated by clay- and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	1, 15 D	1, 125 D	2, 64 D
TEXTURE:			
Sand	2	5	
Silt	60	40	40
Clay	38	55	60
COMPOSITION:			
Access. minerals	10	5	8
Clay	14	35	45
Diatoms	Tr		20
Dolomite	2	Tr	2
Foraminifers	8	10	
Inorganic calcite	30	19	10
Mica	Tr	Tr	Tr
Nannofossils	20	20	Tr
Organic debris	3	5	5
Quartz	12	5	5
Radiolarians	Tr	Tr	2
Silicoflagellates			1
Sponge spicules	1	1	2



SITE 723 HOLE B CORE 42X CORED INTERVAL 2012.7-2022.2 mbsl; 400.3-409.8 mbsf

TIME-ROCK UNIT: PLIOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS: * C/P; NANNOFOSSILS: NN18 *Discoaster brouweri*; RADIOLARIANS; DIATOMS

PALEOMAGNETICS

PHYS. PROPERTIES: ● ϕ ●63.2 γ-1.53

CHEMISTRY

SECTION: 1, 2, 3, 4, CC

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID 400.53; VOID401.53; VOID 402.33; VOID 402.49; VOID403.25

DRILLING DISTURB.

SED. STRUCTURES: **

SAMPLES: OG, IW

LITHOLOGIC DESCRIPTION

CALCAREOUS CLAYEY SILTSTONE and DIATOMACEOUS SHALE

Core moderately disturbed by gas expansion. Firm intervals separate into clasts. Numerous voids.

Major lithologies: CALCAREOUS CLAYEY SILTSTONE, dark olive gray (5Y 3/1), and diatomaceous shale, forming 0.1-1.0-mm-thick laminae. Laminae are faint and indistinct in Section 2. Variable terrigenous component dominated by clay and silt-sized detrital calcite.

SMEAR SLIDE SUMMARY (%):

	1, 72 D	1, 73 D
TEXTURE:		
Silt	45	40
Clay	55	60
COMPOSITION:		
Access. minerals	3	5
Clay	30	49
Cristobalite		2
Diatoms	20	15
Dolomite	Tr	1
Foraminifers	5	Tr
Inorganic calcite	10	10
Mica	Tr	
Nannofossils	20	2
Organic debris	2	5
Quartz	5	7
Radiolarians	1	Tr
Silicoflagellates	1	1
Sponge spicules	2	3

CORE 117–723B–43X NO RECOVERY

SITE 723 HOLE B CORE 44X CORED INTERVAL 2031.8-2041.4 mbsl; 419.4-429.0 mbsf

TIME-ROCK UNIT

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS; NANNOFOSSILS; RADIOLARIANS; DIATOMS

PALEOMAGNETICS

PHYS. PROPERTIES

CHEMISTRY

SECTION: CC

METERS

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES

LITHOLOGIC DESCRIPTION

DOLOMITIC LIMESTONE

Dolomitic limestone clast recovered from bottom of CC, 0-22 cm. Contains faint horizontal bedding, laminated facies(?) consisting of diatomaceous shale and calcareous clayey siltstone(?).