SITE 724 HOLE A CORE 1H CORED INTERVAL 592.8-599.3 mbsl; 0.0-6.5 mbsf

TIME-ROCK UNIT: PLEISTOCENE

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

PALEOMAGNETICS: Brunhes

PHYS. PROPERTIES: ϕ-60.6 γ-1.77; ϕ-62.3 γ-1.69

CHEMISTRY: IC-5.91; OC-0.74

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

METERS: 0, 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: *, *, *, *, IW

LITHOLOGIC DESCRIPTION

CALCAREOUS CLAYEY SILT

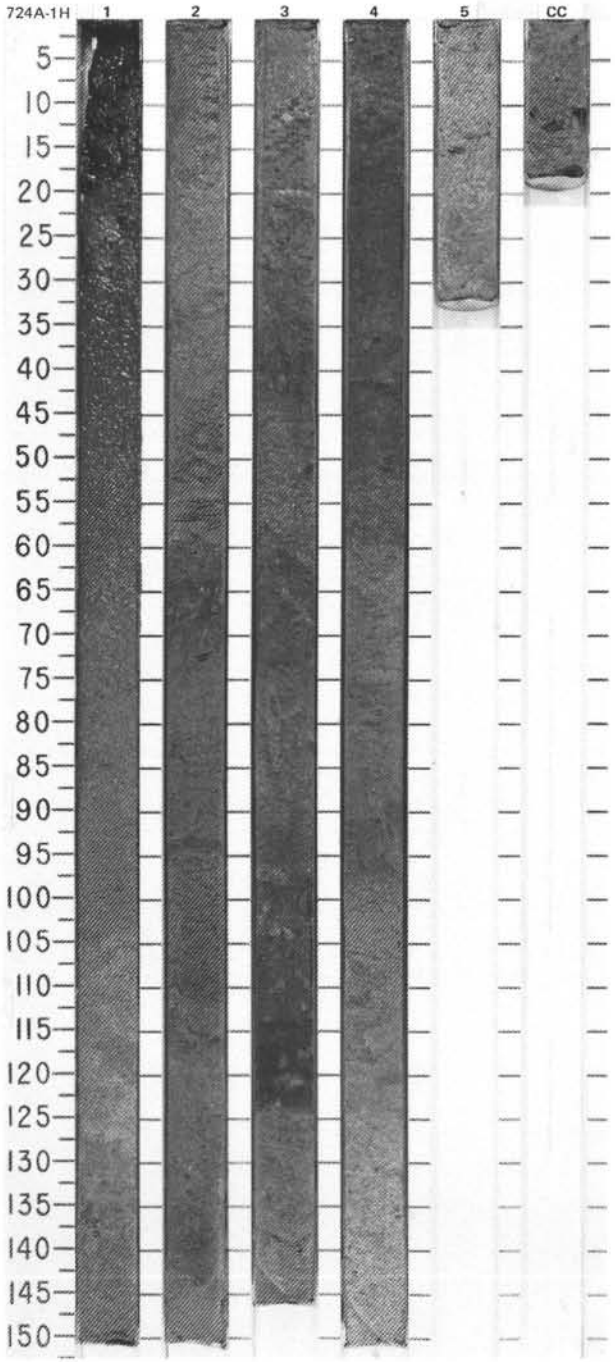
Section 1, 0-18 cm, soupy; remainder undisturbed.

Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 5/3, 4/3), olive gray (5Y 4/2), dark olive gray (5Y 3/2), and very dark olive gray (5Y 3/1). Minor burrow mottling throughout. Contacts gradational and mottled. Millimeter-sized indeterminate shell fragments common. Foraminifers, pteropods, and gastropods visible.

Minor lithology: Section 1, 0-100 cm, diatomaceous clayey silt, dark olive gray (5Y 3/2).

SMEAR SLIDE SUMMARY (%):

	1, 20 D	2, 60 D	3, 118 M
TEXTURE:			
Sand	5	5	
Silt	65	75	75
Clay	30	20	25
COMPOSITION:			
Access. minerals	10	5	15
Clay	19	10	31
Diatoms	20		
Dolomite	1	Tr	2
Feldspar		2	Tr
Foraminifers	15	15	5
Inorganic calcite	15	45	20
Mica	Tr	Tr	Tr
Nannofossils	10	10	Tr
Opaques			5
Organic debris	Tr	3	5
Pellets			2
Quartz	10	10	15
Radiolarians			Tr
Rock fragments	Tr	Tr	
Sponge spicules	Tr		Tr



SITE 724 HOLE A CORE 2H CORED INTERVAL 599.3-608.7 mbsl; 6.5-15.9 mbsf

TIME-ROCK UNIT: PLEISTOCENE

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

PALEOMAGNETICS: ● Brunhes

PHYS. PROPERTIES: ●Φ=49.8 γ=1.87; ●Φ=47.5 γ=1.93; ●Φ=65.1 γ=1.63

CHEMISTRY

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES

LITHOLOGIC DESCRIPTION

CALCAREOUS CLAYEY SILT

Section 1, 0-5 cm, soupy; Section 1, 5-35 cm, and Section 4, 0-80 cm, slightly disturbed; remainder undisturbed.

Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 4/3), olive gray (5Y 5/2, 4/2), and dark olive gray (5Y 3/2). Minor burrow mottling throughout. Contacts gradational and mottled. Millimeter-sized indeterminate shell fragments common. Foraminifers, bivalves, scaphopods, pteropods, and gastropods visible.

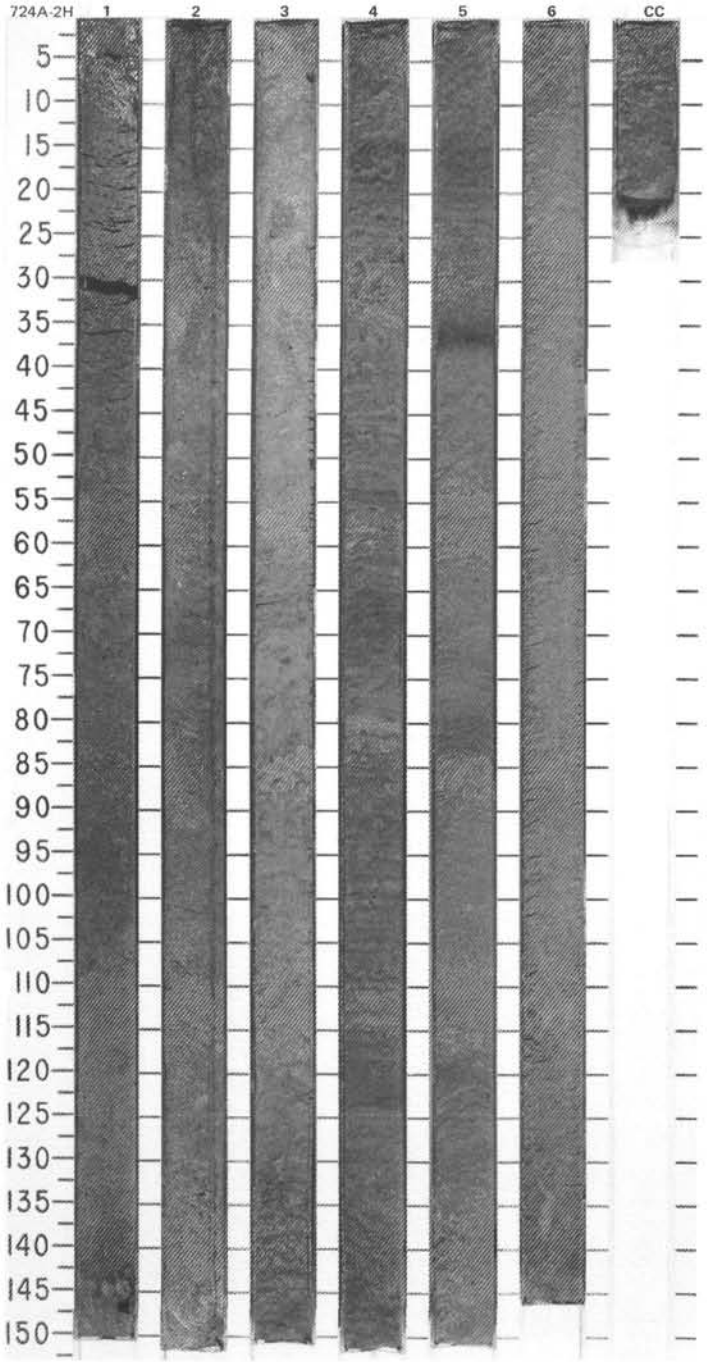
Minor lithology: Section 3, 140-150 cm, Section 4, 0-120 cm, finely bedded layer. *Alternating beds about 5 mm thick of nannofossil silty clay, olive gray* (5Y 4/2), and calcitic silty clay, dark olive gray (5Y 3/2).

SMEAR SLIDE SUMMARY (%):

	1, 70 D	3, 44 D	4, 56 M	4, 66 M	4, 67 M	4, 80 M	4, 98 M
TEXTURE:							
Sand	5	10	15		2	10	
Silt	30	55	85	40	68	75	40
Clay	65	35		60	30	15	60
COMPOSITION:							
Access. minerals	3	6	10	5	5	10	5
Clay	48	20		30	20	10	45
Dolomite	Tr	2	2	Tr	2	6	1
Feldspar	1	1	5	Tr	1	5	
Foraminifers	8	10	10	Tr	5	5	8
Inorganic calcite	15	30	38	30	35	35	20
Mica	Tr	3	5	Tr	2	5	1
Nannofossils	17	15	Tr	25	10	2	15
Opaques		5					
Organic debris	Tr				5		
Pellets					5	5	
Quartz	8	8	25	10	10	15	5
Rock fragments			5			2	

SMEAR SLIDE SUMMARY (%):

	5, 35 M
TEXTURE:	
Sand	2
Silt	53
Clay	45
COMPOSITION:	
Access. minerals	10
Clay	45
Dolomite	6
Feldspar	1
Foraminifers	2
Inorganic calcite	20
Mica	3
Nannofossils	Tr
Opaques	2
Organic debris	3
Quartz	8



TIME-ROCK UNIT: PLEISTOCENE

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

PALEOMAGNETICS: Brunhes

PHYS. PROPERTIES: ●ϕ-51.1 γ-1.82; ●ϕ-59.8 γ-1.88; ●ϕ-48.3 γ-1.91

CHEMISTRY: IC-7.41, IC-1.43

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: OG, M, W

LITHOLOGIC DESCRIPTION

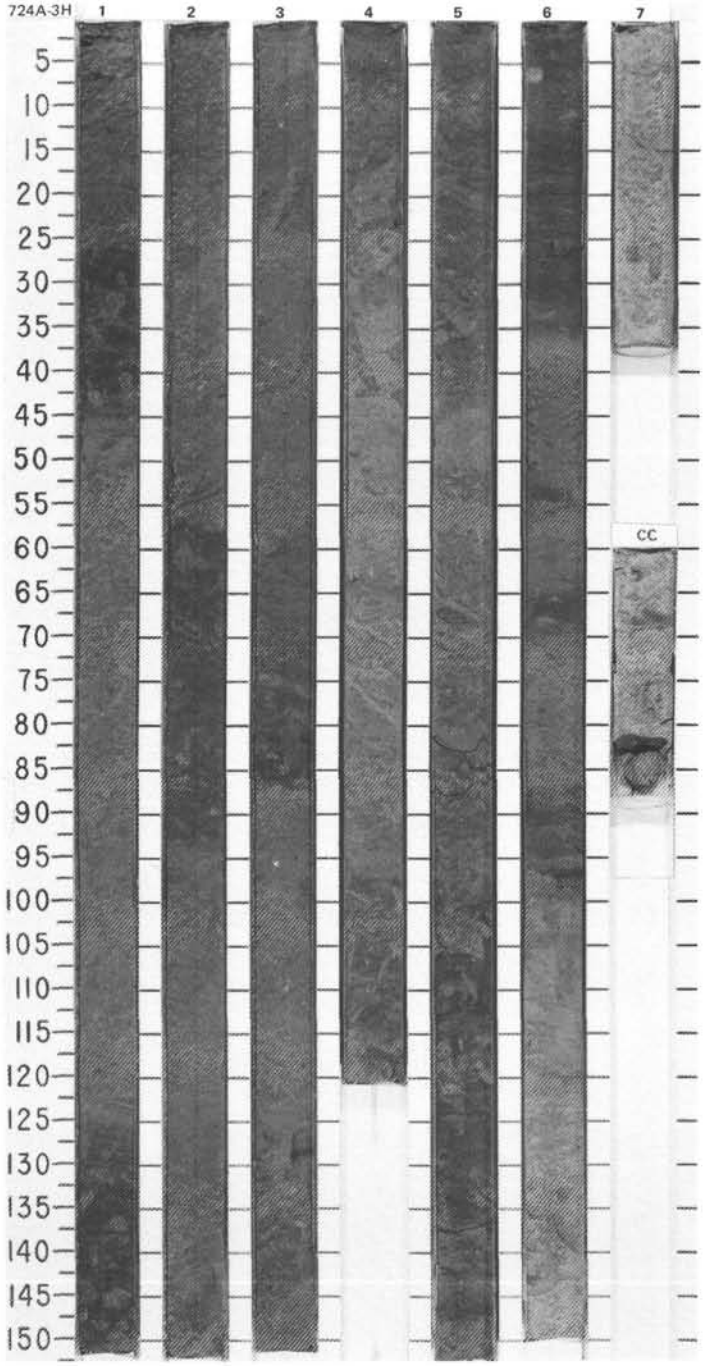
CALCAREOUS CLAYEY SILT

Entire core undisturbed.

Major lithology: Calcareous clayey silt, olive (5Y 4/3), olive gray (5Y 5/2, 4/2), and dark olive gray (5Y 3/2). Minor to moderate burrow mottling. Contacts gradational and mottled. Millimeter-sized indeterminate shell fragments common. Foraminifers, scaphopods, and gastropods visible.

SMEAR SLIDE SUMMARY (%):

	1, 34 M	1, 50 D	5, 68 D
TEXTURE:			
Sand	2	10	5
Silt	40	55	45
Clay	58	35	50
COMPOSITION:			
Access. minerals	10	8	8
Clay	36	20	35
Dolomite	2	2	2
Feldspar		2	
Foraminifers	2	8	5
Inorganic calcite	25	30	25
Mica	5	5	2
Nannofossils	5	15	15
Opaques	3		
Organic debris	5		Tr
Quartz	7	10	8



SITE 724 HOLE A CORE 4H CORED INTERVAL 618.2-627.7 mbsl; 25.4-34.9 mbsf

TIME-ROCK UNIT: PLEISTOCENE

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

PALEOMAGNETICS: Brunhes

PHYS. PROPERTIES: ●Φ=56.8 γ=1.73; ●Φ=52.4 γ=1.89; ●Φ=45.8 γ=1.96

CHEMISTRY: IC=7.50 OC=1.33; IC=6.57 OC=1.17; IC=6.33 OC=0.32

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID 25.4

DRILLING DISTURB.

SED. STRUCTURES: 6; 6

SAMPLES: *; *; *

LITHOLOGIC DESCRIPTION

CALCAREOUS CLAYEY SILT

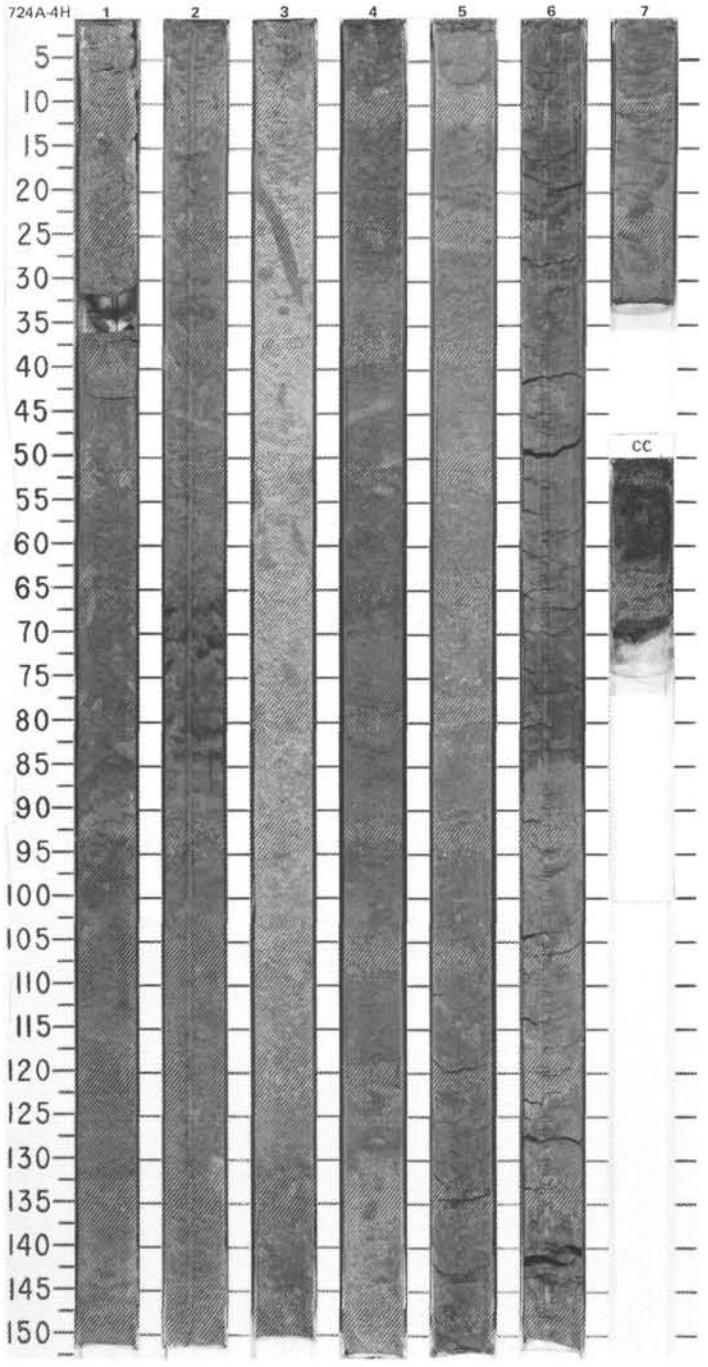
Section 6, 0-150 cm, slightly disturbed; remainder undisturbed.

Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 4/3), olive gray (5Y 5/2, 4/2), and dark olive gray (5Y 3/2). Minor to moderate burrow mottling. Contacts gradational and mottled. Millimeter-sized indeterminate shell fragments common. Foraminifers visible.

Minor lithology: Section 6, 75-135 cm, calcitic clayey silt, olive gray (5Y 5/2). Sharp top contact, burrow-mottled lower contact.

SMEAR SLIDE SUMMARY (%):

	3, 90 D	4, 90 D	6, 90 D
TEXTURE:			
Sand	5	5	10
Silt	45	55	60
Clay	50	40	30
COMPOSITION:			
Access. minerals	10	8	10
Clay	24	13	19
Dolomite	5	5	2
Feldspar	Tr	1	2
Foraminifers	5	8	10
Inorganic calcite	15	25	30
Mica	1	Tr	2
Nannofossils	25	25	10
Pellets	5		
Quartz	10	10	10
Rock fragments		5	5



SITE 724 HOLE A CORE 5H CORED INTERVAL 627.7-637.3 mbsl; 34.9-44.5 mbsf

TIME-ROCK UNIT: PLEISTOCENE

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

PALEOMAGNETICS: • Brunhes •

PHYS. PROPERTIES: • ϕ=55.4 γ=1.80 • ϕ=54.5 γ=1.83 • ϕ=49.9 γ=1.92

CHEMISTRY: • IC=6.86 OC=1.39 • IC=6.78 OC=1.53 • IC=6.51 OC=1.50 • IC=6.82 OC=0.69

SECTION: 1 2 3 4 5 6 7 CC

METERS: 0.5 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: *

LITHOLOGIC DESCRIPTION

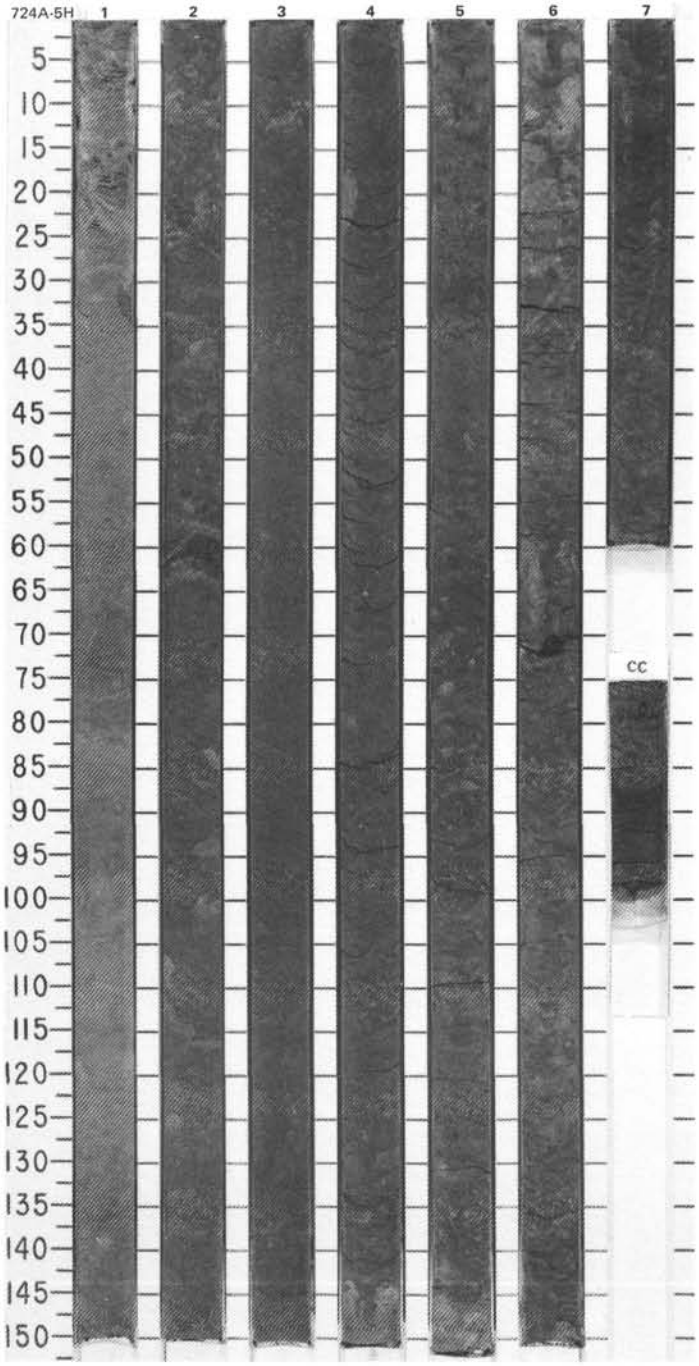
CALCAREOUS CLAYEY SILT

Entire core undisturbed.

Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 4/3), olive gray (5Y 4/2), and dark olive gray (5Y 3/2). Most of the core is dark olive gray (5Y 3/2). Minor burrow mottling generally faint. Contacts gradational and mottled. Millimeter-sized indeterminate shell fragments common. Foraminifers visible. Section 6, 70 cm, and CC, 4 cm, phosphatic nodules, black (5Y 2.5/1) contain foraminifers.

SMEAR SLIDE SUMMARY (%):

	1, 26 D	4, 60 D
TEXTURE:		
Sand	5	10
Silt	80	75
Clay	15	15
COMPOSITION:		
Access. minerals		2
Clay	15	20
Foraminifers	5	3
Inorganic calcite	68	65
Nannofossils	5	5
Quartz	7	5
Rock fragments		Tr



SITE 724 HOLE B CORE 1H CORED INTERVAL 592.8-599.8 mbsl; 0.0-7.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLEISTOCENE	*A/G	N23						1	0.5	VOID 0.08	O		
	*A/G	NN21 *Emiliania huxleyi*						1	1.0				
	*Barren							2					
								3					*
								4					
								5					
								CC					

LITHOLOGIC DESCRIPTION

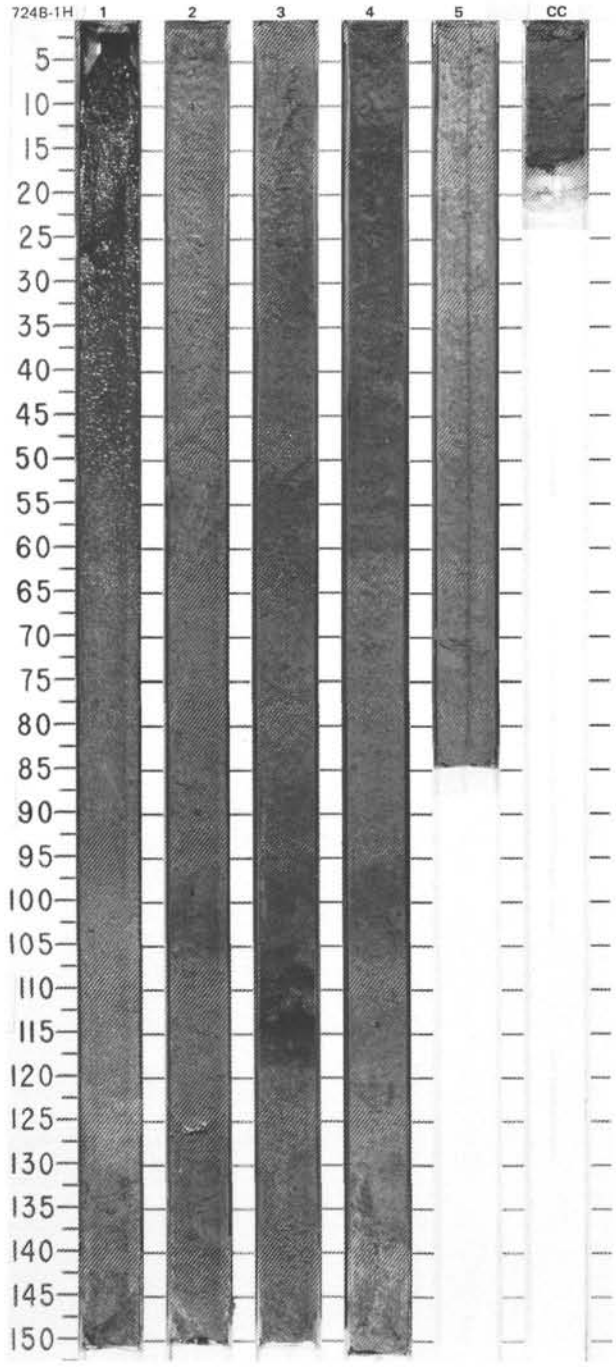
CALCAREOUS CLAYEY SILT

CC, slightly disturbed; remainder undisturbed.

Major lithology: CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2) and dark olive gray (5Y 3/2). Minor burrow mottling common. Contacts gradational and mottled. Millimeter-sized indeterminate shell fragments common. Foraminifers, bivalves, and scaphopods visible.

SMEAR SLIDE SUMMARY (%):

	3, 112 M
TEXTURE:	
Silt	60
Clay	40
COMPOSITION:	
Clay	40
Inorganic calcite	40
Mica	Tr
Nannofossils	5
Organic debris	5
Quartz	10



SITE 724 HOLE B CORE 2H CORED INTERVAL 599.8-609.2 mbsl; 7.0-16.4 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/G	N23	* A/M	NN21 *Emiliania huxleyi*	* Barren									

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID 7.78

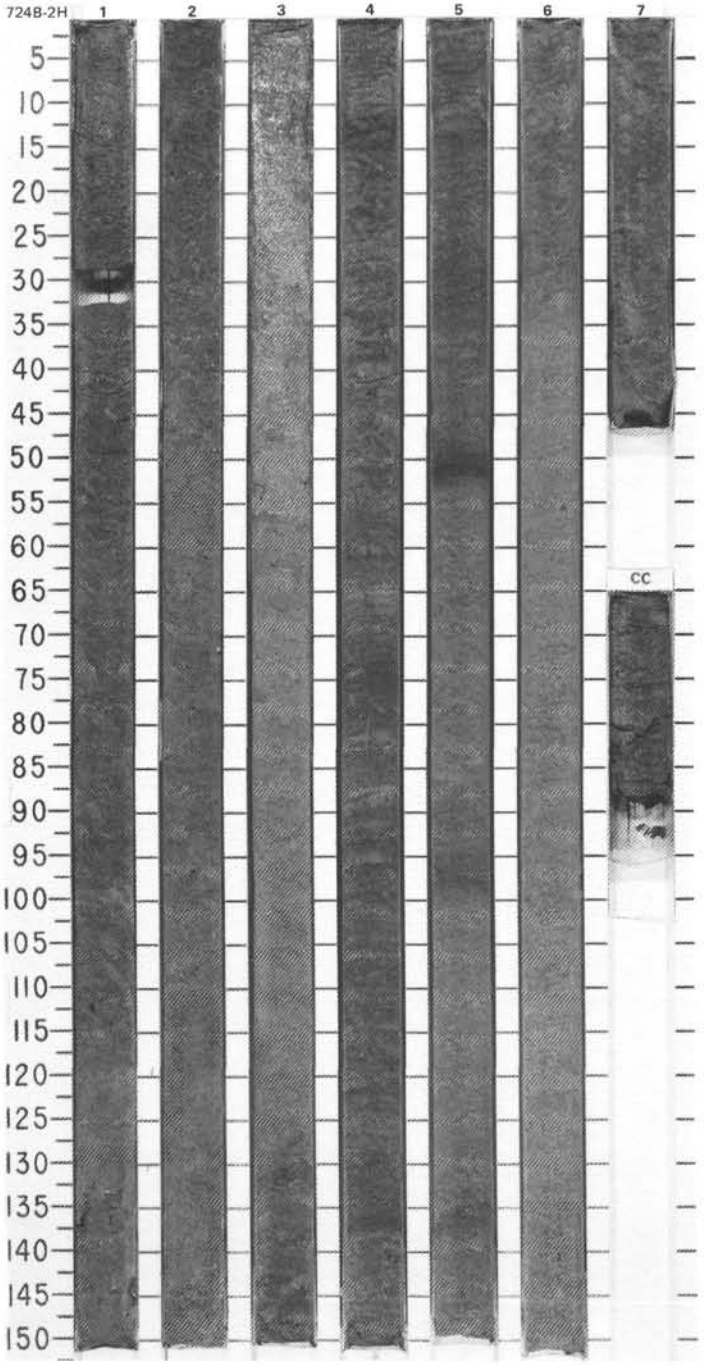
SED. STRUCTURES: 6

CALCAREOUS CLAYEY SILT

Entire core undisturbed.

Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 4/3), olive gray (5Y 5/2, 4/2), and dark olive gray (5Y 3/2). Minor burrow mottling common. Contacts gradational and mottled. Millimeter-sized indeterminate shell fragments common.

Minor lithology: Section 4, 60-120 cm, finely bedded layer. Beds 5-10 mm thick of alternating nannofossil silty clay, olive gray (5Y 4/2), and calcitic silty clay, dark olive gray (5Y 3/2).



SITE 724 HOLE B CORE 3H CORED INTERVAL 609.2-618.7 mbsl; 16.4-25.9 mbsf

TIME-ROCK UNIT: PLEISTOCENE

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

PALEOMAGNETICS: *C/M; *A/M; *Barren

PHYS. PROPERTIES

CHEMISTRY

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES

LITHOLOGIC DESCRIPTION

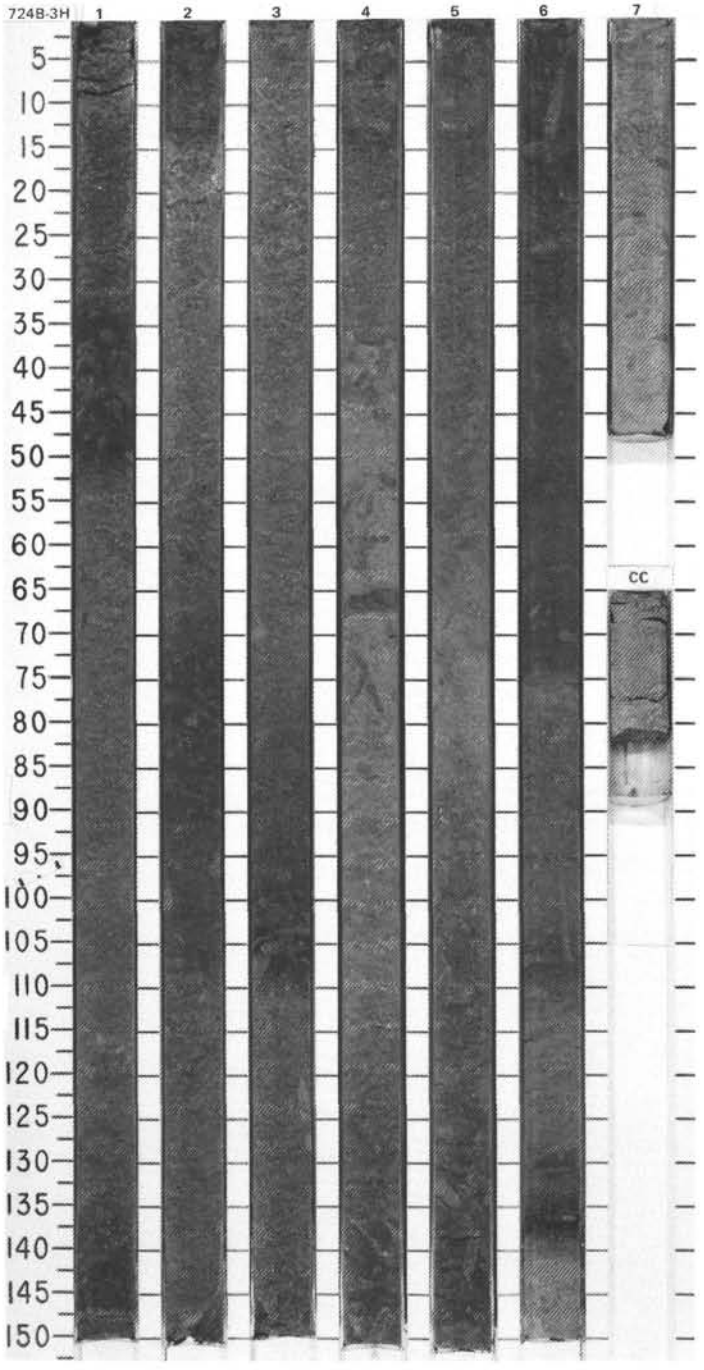
CALCAREOUS CLAYEY SILT

Entire core undisturbed.

Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 4/3), and olive gray (5Y 4/2). Minor to moderate burrow mottling common. Contacts gradational and mottled. Millimeter-sized indeterminate shell fragments common. Foraminifers visible.

SMEAR SLIDE SUMMARY (%):

	3, 51 D
TEXTURE:	
Silt	60
Clay	40
COMPOSITION:	
Clay	31
Dolomite	Tr
Foraminifers	5
Inorganic calcite	45
Nannofossils	7
Pellets	2
Quartz	10



SITE 724 HOLE B CORE 4H CORED INTERVAL 618.7-628.2 mbsl; 25.9-35.4 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/G	N23						1	0.5				
	*A/G	NN19 *Pseudoemiliania lacunosa*							1.0				
	*Barren							2					
								3					*
								4					
								5					
								6					
								7					
								CC					

LITHOLOGIC DESCRIPTION

CALCAREOUS CLAYEY SILT

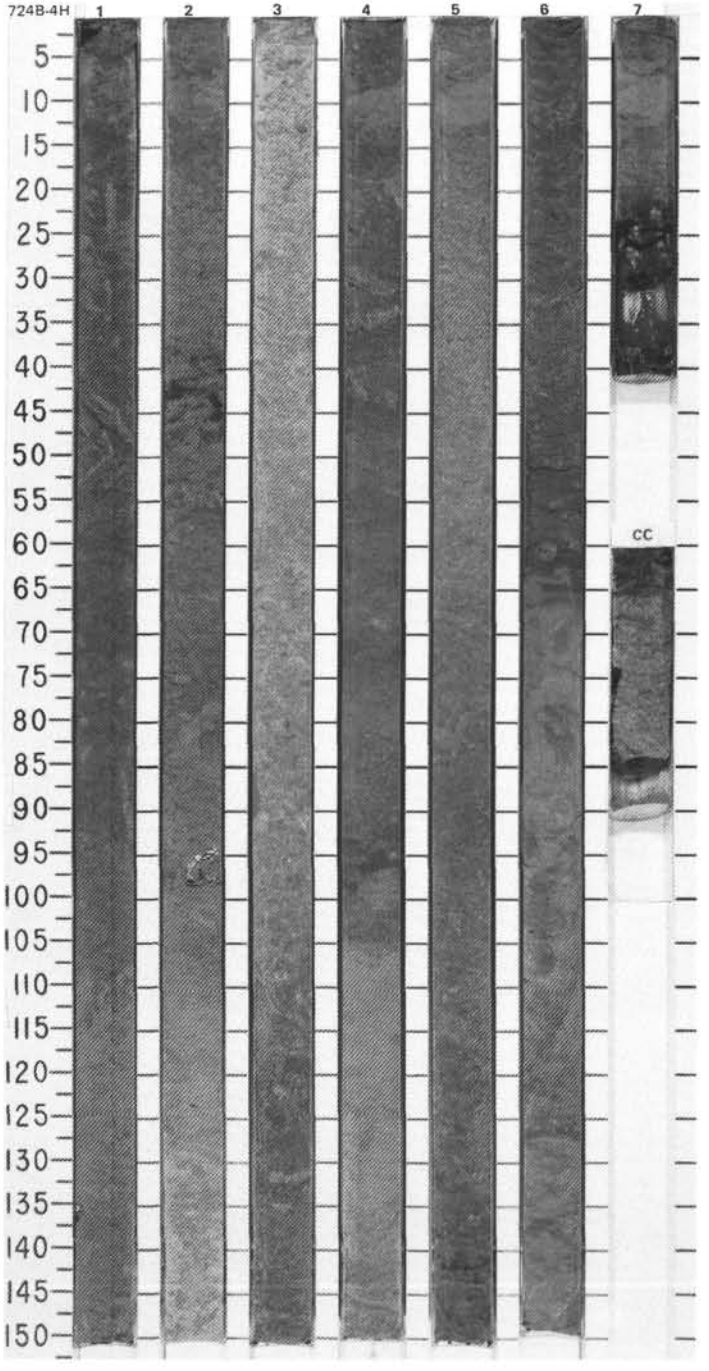
Entire core undisturbed.

Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 4/3), olive gray (5Y 5/2, 4/2), and dark olive gray (5Y 3/2). Minor to moderate burrow mottling common. Contacts gradational and mottled. Foraminifers and bivalves visible.

Minor lithology: Section 6, 70-120 cm, calcitic clayey silt, olive gray (5Y 5/2). Sharp top and mottled lower contact.

SMEAR SLIDE SUMMARY (%):

	3, 72 D
TEXTURE:	
Silt	30
Clay	70
COMPOSITION:	
Clay	25
Feldspar	2
Foraminifers	2
Gypsum	Tr
Inorganic calcite	25
Nannofossils	33
Pellets	3
Quartz	10



SITE 724 HOLE B CORE 5H CORED INTERVAL 628.2-637.8 mbsl; 35.4-45.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLEISTOCENE	*C/M	N23						1	0.5				
	*A/M	NN19 *Pseudomiliana lacunosa*							1.0				
	*Barren							2					
					Brunhes			3					
								4					*
								5					
								6					
								7					
								CC					

LITHOLOGIC DESCRIPTION

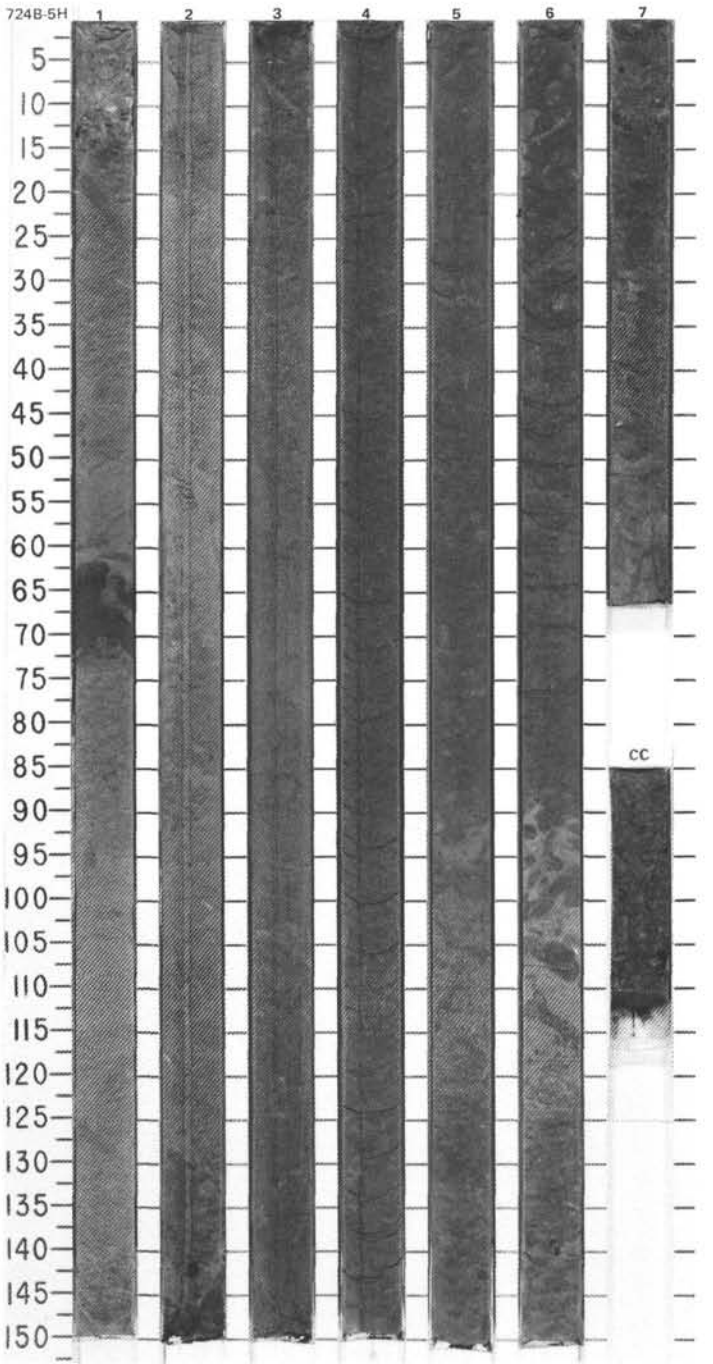
CALCAREOUS CLAYEY SILT

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

Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 4/3), olive gray (5Y 4/2), and dark olive gray (5Y 3/2). Minor burrow mottling common. Contacts gradational and mottled. Millimeter-sized indeterminate shell fragments common. Foraminifers visible. Section 2, 142 cm, and Section 6, 140 cm, phosphatic nodules, black (5Y 2.5/1) with irregular outlines.

SMEAR SLIDE SUMMARY (%):

	4, 93 D
TEXTURE:	
Silt	40
Clay	60
COMPOSITION:	
Clay	30
Foraminifers	7
Inorganic calcite	35
Nannofossils	20
Quartz	8



SITE 724 HOLE B CORE 6X CORED INTERVAL 637.8-647.5 mbsl; 45.0-54.7 mbsf

TIME-ROCK UNIT	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
PLEISTOCENE	N23 *F/G	NN19 *Pseudoemiliania lacunosa* *A/M	*Barren		○ ○ ●	● φ=52.8 γ=1.93 ● φ=50.2 γ=1.86	● IC=6.09 OC=0.75	1 2 3 4 5 CC	0.5 1.0				* IW	

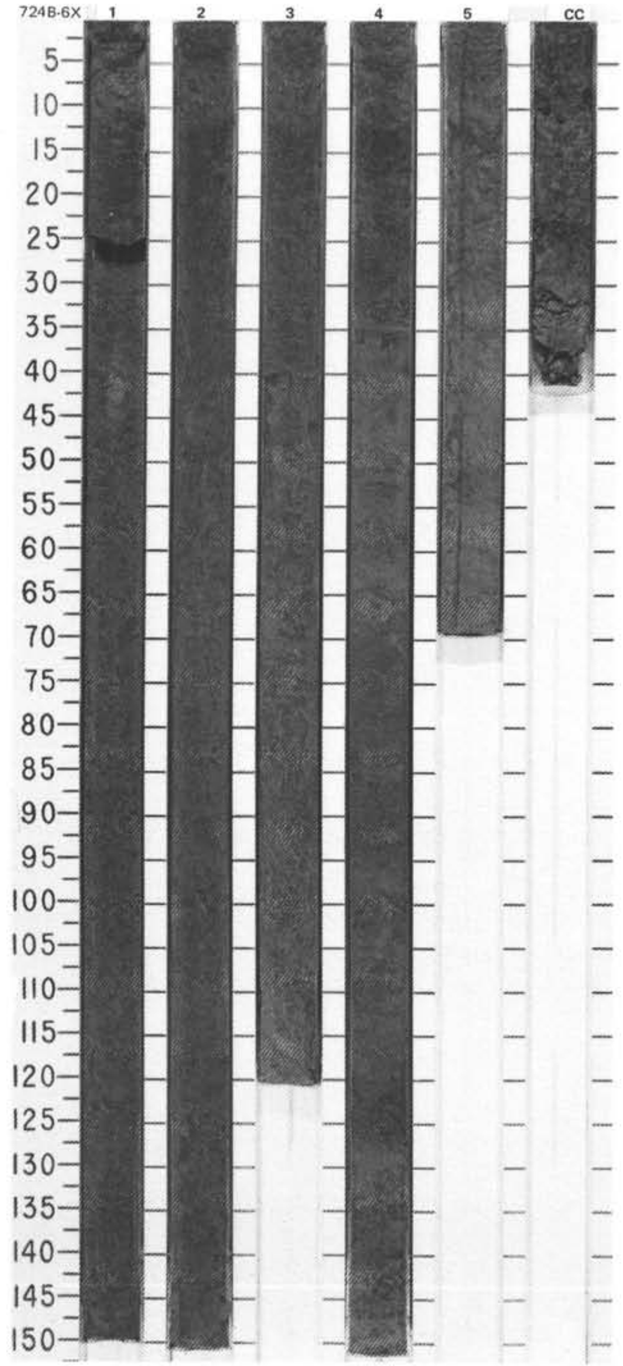
CALCAREOUS CLAYEY SILT

Entire core undisturbed.

Major lithology: CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2). Minor burrow mottling in Sections 1 and 2, rest of core unmottled. Some mottles filled with olive gray (5Y 5/2) calcitic silt.

SMEAR SLIDE SUMMARY (%):

	3, 68 D
TEXTURE:	
Silt	40
Clay	60
COMPOSITION:	
Clay	30
Dolomite	2
Foraminifers	5
Inorganic calcite	28
Mica	Tr
Nannofossils	25
Quartz	10



SITE 724 HOLE B CORE 7X CORED INTERVAL 647.5-657.2 mbsl; 54.7-64.4 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/G	NN19 *Pseudoemiliania lacunosa*	*R/G	unzoned	Brunhes	●ϕ=54.4 γ=1.85 ●ϕ=57.5 γ=1.74		1 2 3 4 CC	0.5 1.0				*

LITHOLOGIC DESCRIPTION

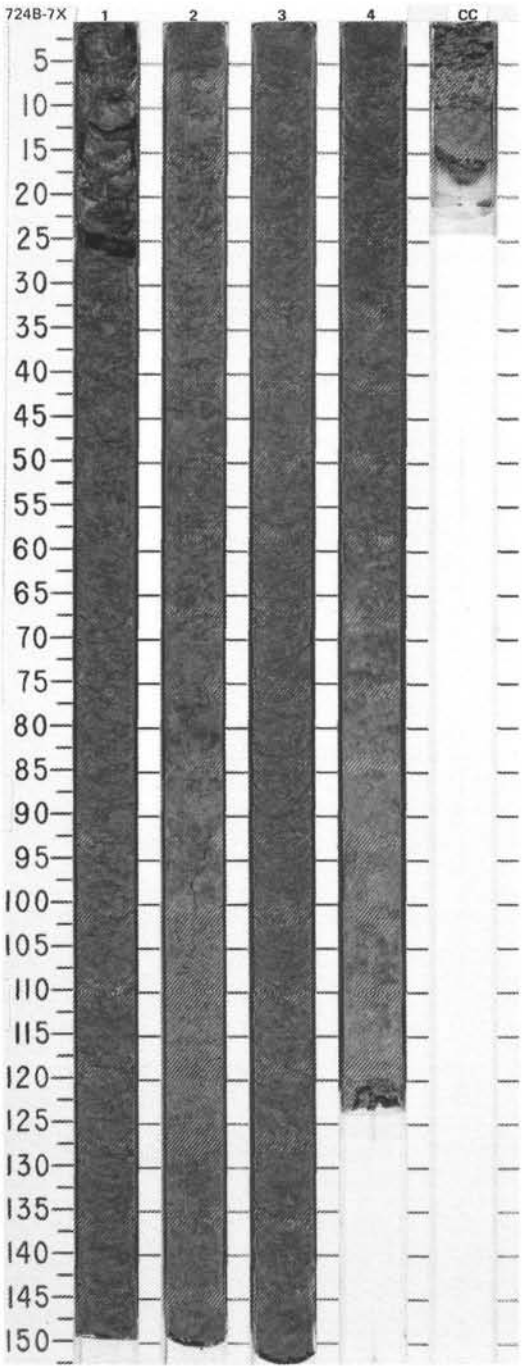
CALCAREOUS CLAYEY SILT

Section 1, 0-25 cm, very disturbed; remainder undisturbed.

Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 4/3) and olive gray (5Y 4/2). Occasional faint burrow mottling. Bedding contact is gradational and *mottled. Millimeter-sized, indeterminate shell fragments in Sections 2, 3, and 4.*

SMEAR SLIDE SUMMARY (%):

	1, 90 D	4, 90 D
TEXTURE:		
Silt	40	45
Clay	60	55
COMPOSITION:		
Clay	25	35
Dolomite	Tr	Tr
Feldspar	Tr	
Foraminifers	10	5
Inorganic calcite	25	30
Nannofossils	35	20
Quartz	5	10



SITE 724 HOLE B CORE 8X CORED INTERVAL 657.2-666.8 mbsl; 64.4-74.0 mbsf

TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER:
- FORAMINIFERS: N23
- NANNOFOSSILS: NN19 *Pseudoemiliania lacunosa*
- RADIOLARIANS: unzoned
- DIATOMS:

PALEOMAGNETICS: Matuyama

PHYS. PROPERTIES: ●ϕ=62.7 γ=1.71; ●ϕ=53.0 γ=1.80

CHEMISTRY: *C/G; *A/M; *R/G

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: V01D68.85

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES

LITHOLOGIC DESCRIPTION

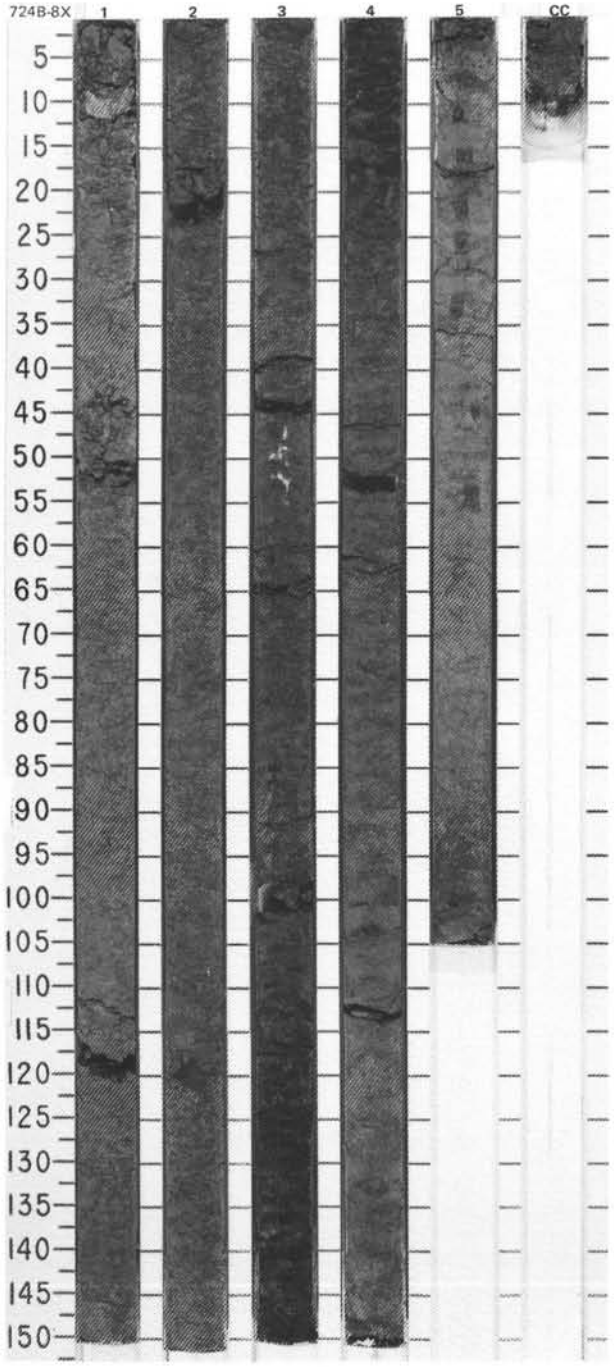
MARLY NANNOFOSSIL OOZE

Section 4, 0-150 cm, and Section 5, 0-150 cm, moderately disturbed; Section 1, 0-15, 45-55, and 115-125 cm, and Section 2, 0-150 cm, slightly disturbed; remainder undisturbed.

Major lithology: MARLY NANNOFOSSIL OOZE, olive (5Y 4/3), olive gray (5Y 5/2, 4/2), dark olive gray (5Y 3/2), very dark gray (5Y 3/1), and black (5Y 2.5/2). Minor burrow mottling throughout. Bedding contacts are gradational and mottled. Millimeter-sized, indeterminate shell fragments common. Foraminifers visible.

SMEAR SLIDE SUMMARY (%):

	2, 30 D	4, 7 M
TEXTURE:		
Sand	5	
Silt	45	30
Clay	50	70
COMPOSITION:		
Access. minerals	5	
Clay	10	35
Diatoms		Tr
Dolomite		Tr
Foraminifers	10	10
Inorganic calcite	15	20
Nannofossils	55	30
Organic debris		5
Pyrite	Tr	
Quartz	5	Tr
Silicoflagellates		Tr
Sponge spicules		Tr



SITE 724 HOLE B CORE 9X CORED INTERVAL 666.8-676.5 mbsl; 74.0-83.7 mbsf

TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS: *C/G; N23; *A/M; NANNOFOSSILS: NN19 *Pseudoemiliania lacunosa*; RADIOLARIANS: *Barren; DIATOMS

PALEOMAGNETICS: Jaramillo

PHYS. PROPERTIES: ●ϕ=54.2 γ=1.82; ●ϕ=60.7 γ=1.64; IC=7.11; OC=1.66

CHEMISTRY

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID 75.7; VOID 76.6; VOID 78.7

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: OG; IW

LITHOLOGIC DESCRIPTION

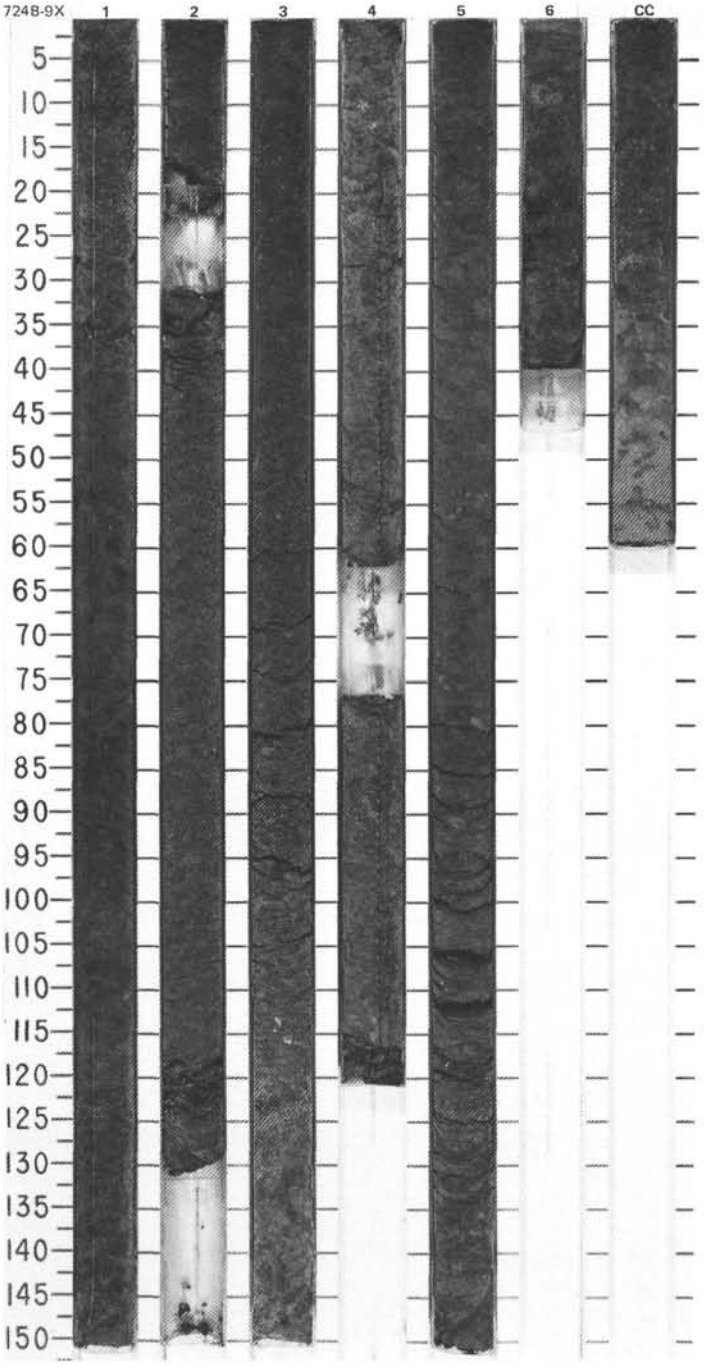
CALCAREOUS CLAYEY SILT

Section 3, 60-110 cm, and Section 5, 80-125 cm, slightly disturbed; remainder undisturbed. Voids caused during gas expansion.

Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 4/3), olive gray (5Y 5/2, 4/2), and dark olive gray (5Y 3/2). Minor burrow mottling throughout. Bedding contacts are gradational and mottled. Millimeter-sized, indeterminate shell *fragments common. Foraminifers visible. Section 5, 27 cm,* black (5Y 2.5/1) phosphatic nodule.

SMEAR SLIDE SUMMARY (%):

	2, 65 D	6, 52 D
TEXTURE:		
Sand	10	10
Silt	50	50
Clay	40	40
COMPOSITION:		
Clay	30	20
Dolomite	Tr	Tr
Feldspar		Tr
Foraminifers	15	10
Volcanic glass		Tr
Inorganic calcite	35	40
Nannofossils	15	20
Organic debris		5
Quartz	5	5



SITE 724 HOLE B CORE 10X CORED INTERVAL 676.5-686.2 mbsl; 83.7-93.4 mbsf

TIME-ROCK UNIT: PLEISTOCENE

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

PALEOMAGNETICS: Matuyama o

PHYS. PROPERTIES: ●ϕ=57.3 γ=1.77

CHEMISTRY:

SECTION: 1, 2, 3, CC

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: *

LITHOLOGIC DESCRIPTION

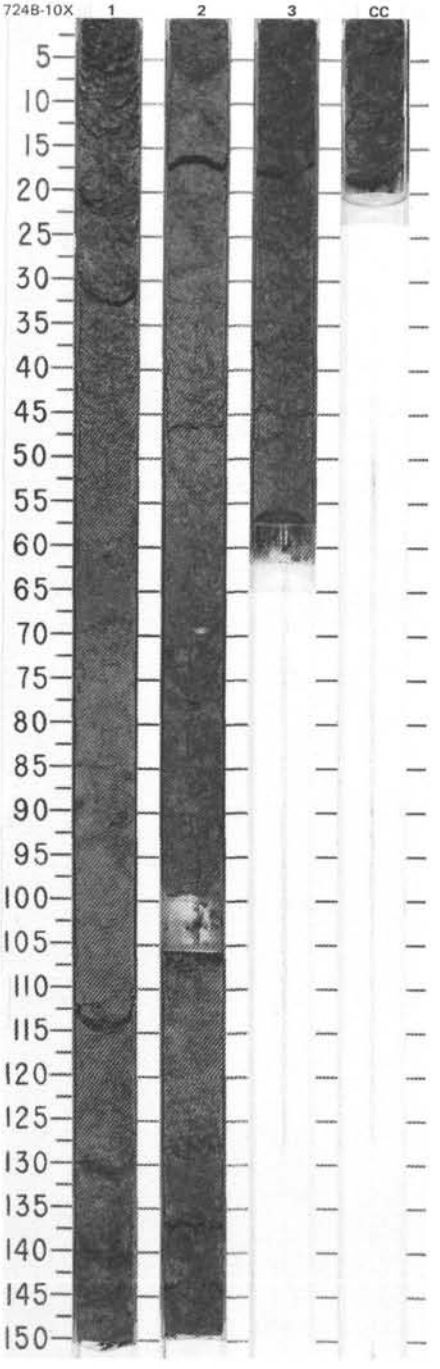
CALCAREOUS CLAYEY SILT

Section 1, 0-30 and 110-130 cm, very disturbed; Section 2, 0-150 cm, and Section 3, 0-60 cm, slightly disturbed; remainder undisturbed. Voids caused during gas expansion.

Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 4/3), olive gray (5Y 4/2), dark olive gray (5Y 3/2), and black (5Y 2.5/2). Minor burrow mottling common. Bedding contacts are gradational and mottled. Foraminifers visible.

SMEAR SLIDE SUMMARY (%):

	1, 60 D
TEXTURE:	
Sand	5
Silt	35
Clay	60
COMPOSITION:	
Clay	30
Dolomite	Tr
Foraminifers	15
Volcanic glass	Tr
Inorganic calcite	20
Nannofossils	30
Quartz	5



SITE 724 HOLE B CORE 11X CORED INTERVAL 686.2-695.8 mbsl; 93.4-103.0 mbsf

TIME-ROCK UNIT: PLEISTOCENE

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

PALEOMAGNETICS: Matuyama

PHYS. PROPERTIES: ●ϕ=60.6 γ=1.88; ●ϕ=54.8 γ=1.77

CHEMISTRY: ●IC=7.32 OC=1.39

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

VOID95.7
VOID95.8
VOID96.05
VOID97.18
VOID98.83
VOID99.37

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: *

LITHOLOGIC DESCRIPTION

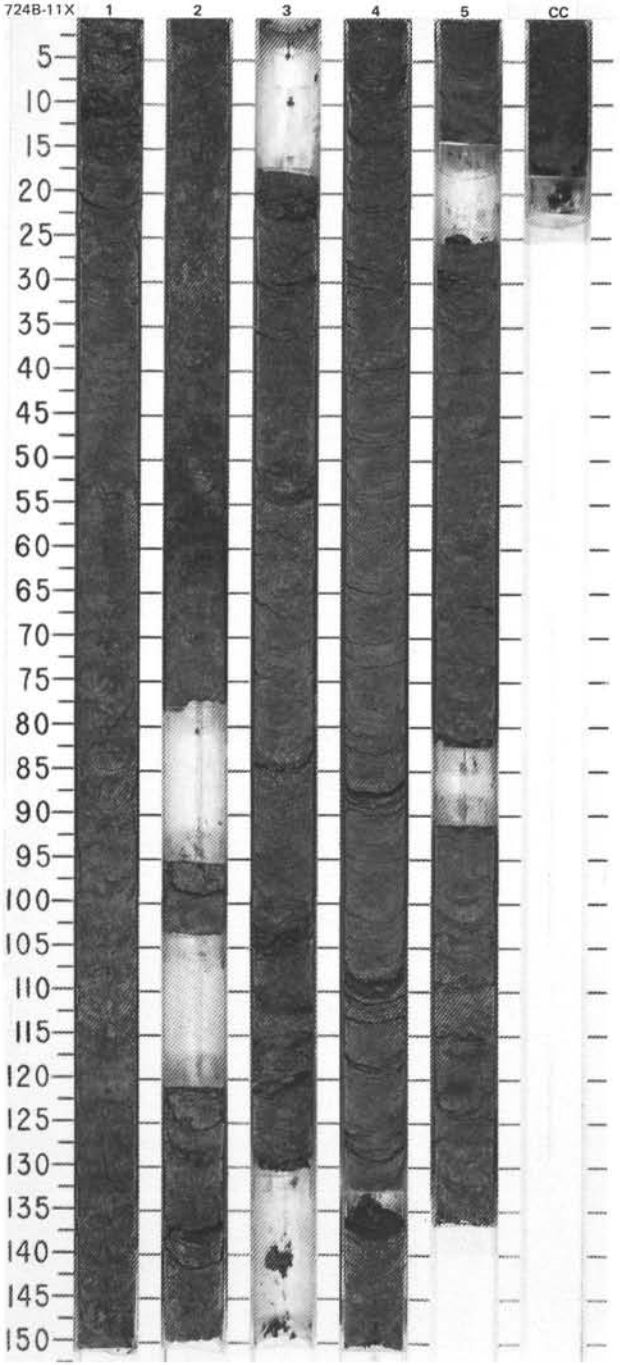
CALCAREOUS CLAYEY SILT

Section 1, 0-15 cm, Section 3, 20-25 and 100-130 cm, and Section 5, 10-30 and 75-95 cm, very disturbed; and Section 2, 0-150 cm, slightly disturbed; remainder undisturbed. Voids caused during gas expansion.

Major lithology: CALCAREOUS CLAYEY SILT, dark olive gray (5Y 3/2) and black (5Y 2.5/2). Some minor burrow mottling. Bedding contacts are gradational and mottled. Foraminifers visible.

SMEAR SLIDE SUMMARY (%):

	4, 77 D
TEXTURE:	
Sand	5
Silt	50
Clay	45
COMPOSITION:	
Clay	30
Dolomite	Tr
Foraminifers	20
Inorganic calcite	20
Nannofossils	25
Quartz	5



SITE 724 HOLE B CORE 12X CORED INTERVAL 695.8-705.5 mbsl; 103.0-112.7 mbsf

TIME-ROCK UNIT: PLEISTOCENE

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

PALEOMAGNETICS: Matuyama

PHYS. PROPERTIES: ●ϕ=61.9 γ=1.67; ●ϕ=56.2 γ=1.77; ●ϕ=57.4 γ=1.72

CHEMISTRY: IC=6.71 OC=1.99

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID 103.35; VOID 103.85; VOID 104.49; VOID 105.09; VOID 106.5; VOID 106.85; VOID 107.2; VOID 107.94; VOID 109.53; VOID 109.95

DRILLING DISTURB.

SED. STRUCTURES: 6

SAMPLES: OG, IW

LITHOLOGIC DESCRIPTION

CALCAREOUS CLAYEY SILT

Section 2, 69-90 cm, and Section 4, 15-36 and 110-150 cm, moderately disturbed; Section 2, 0-36 and 90-150 cm, and Section 4, 0-15 and 50-110 cm, slightly disturbed; remainder undisturbed. Voids caused during gas expansion.

Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 4/3), olive gray (5Y 4/2), and dark olive gray (5Y 3/2). Minor burrow mottling in Section 1 only. Bedding contacts are gradational and mottled. Foraminifers visible. Section 3, 75 cm, phosphatized bone.

SMEAR SLIDE SUMMARY (%):

	1, 80 D
TEXTURE:	
Silt	40
Clay	60
COMPOSITION:	
Access. minerals	Tr
Clay	20
Foraminifers	10
Inorganic calcite	30
Mica	Tr
Nannofossils	30
Quartz	10

724B-12X 1 2 3 4 5 6 7

5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150

CC

CORE 117–724B–13X NO RECOVERY

SITE 724 HOLE B CORE 14X CORED INTERVAL 715.2-724.8 mbsl; 122.4-132.0 mbsf

TIME-ROCK UNIT: PLEISTOCENE

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

PALEOMAGNETICS: Matuyama

PHYS. PROPERTIES: ●ϕ=55.2 γ=1.77; ●ϕ=53.8 γ=1.77; ●ϕ=55.6 γ=1.79

CHEMISTRY:

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID124.35; VOID 124.8; VOID125.01; VOID125.61; VOID127.01; VOID127.51; VOID 127.8; VOID 128.05; VOID 128.4; VOID 128.44; VOID130.09; VOID 130.14

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES

LITHOLOGIC DESCRIPTION

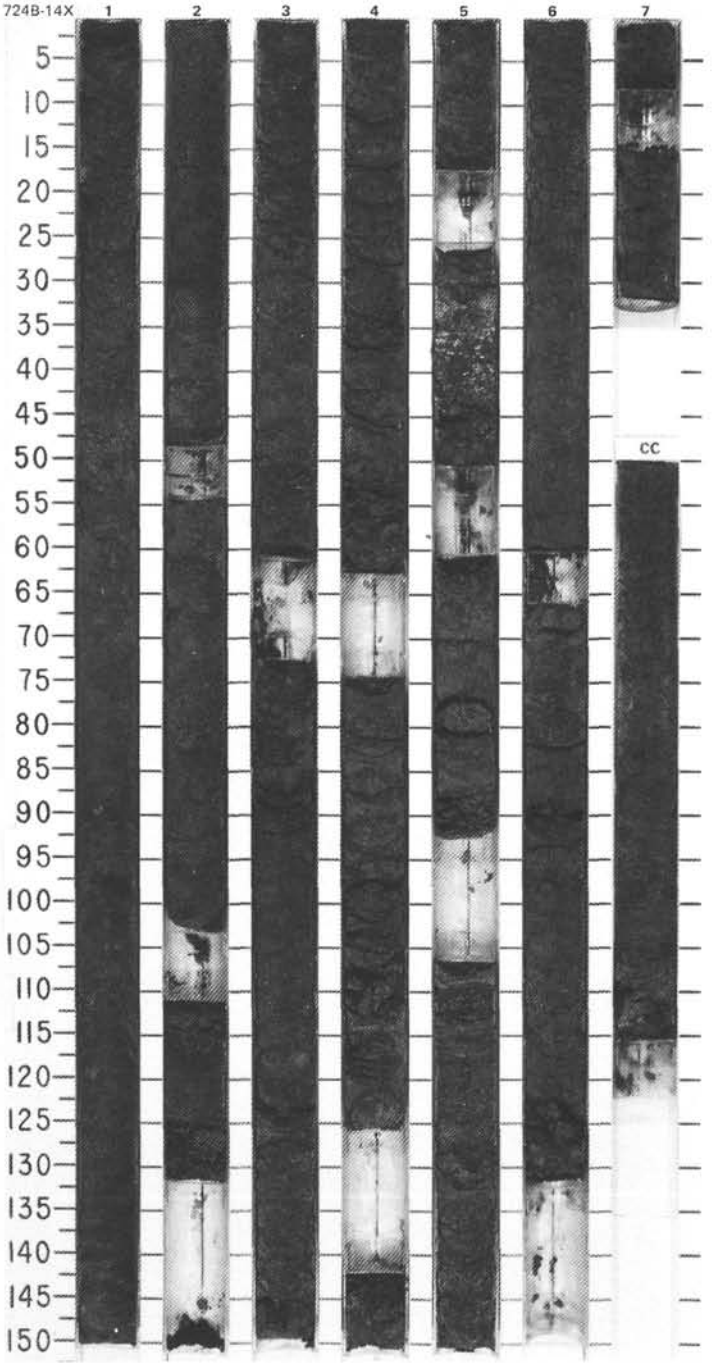
CALCAREOUS CLAYEY SILT

Section 5, 24-51 cm, soupy; Section 4, 100-125 cm, very disturbed; Section 4, 30-100 cm, moderately disturbed; remainder slightly disturbed. Voids caused during gas expansion.

Major lithology: CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2) and dark olive gray (5Y 3/2). Minor burrow mottling in Section 1 only. Bedding contacts are gradational and mottled. Foraminifers visible.

SMEAR SLIDE SUMMARY (%):

	1, 120 D	6, 29 D
TEXTURE:		
Sand	15	10
Silt	40	30
Clay	45	60
COMPOSITION:		
Access. minerals	2	2
Clay	30	30
Dolomite	Tr	
Feldspar	2	
Foraminifers	Tr	3
Volcanic glass	Tr	Tr
Inorganic calcite	30	20
Mica	1	
Nannofossils	15	30
Quartz	20	15
Sponge spicules		Tr



SITE 724 HOLE B CORE 15X CORED INTERVAL 724.8-734.5 mbsl; 132.0-141.7 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
PLEIST. / PLIOCENE	* R/M	N22	*A/M-P	NN19	* R/P	unzoned	O Matuyama O	●ϕ-55.2 γ•1.81		1, 2, CC	0.5, 1.0	VOID 133.05; VOID 133.5	O		*

LITHOLOGIC DESCRIPTION

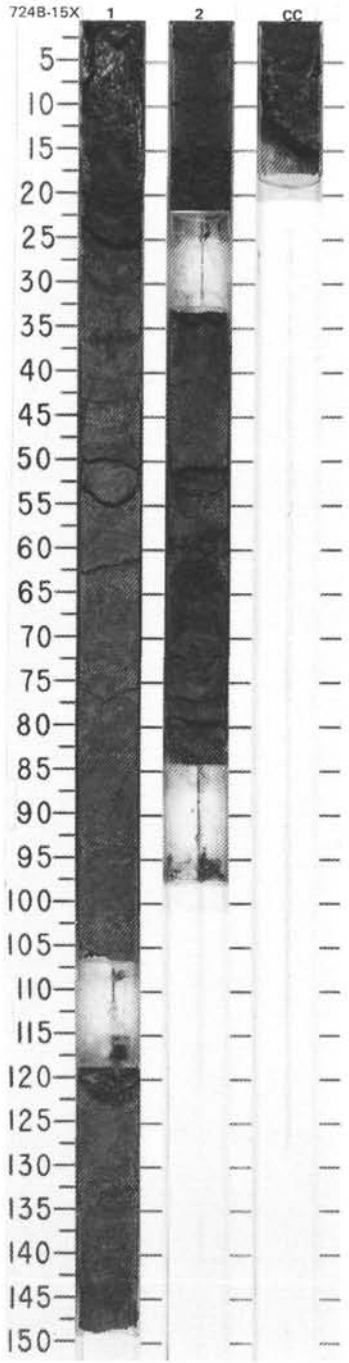
CALCAREOUS CLAYEY SILT

Section 1, 0-10 cm, soupy; Section 1, 10-25 cm, moderately disturbed; remainder slightly disturbed. Voids caused during gas expansion.

Major lithology: CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2) and dark olive gray (5Y 3/2). Minor to moderate burrow mottling. Bedding contacts are gradational and mottled. Foraminifers visible.

SMEAR SLIDE SUMMARY (%):

	1, 94 D	2, 62 D
TEXTURE:		
Sand	20	15
Silt	30	45
Clay	50	40
COMPOSITION:		
Access. minerals	3	2
Clay	30	35
Dolomite	Tr	
Feldspar	1	2
Foraminifers	1	1
Inorganic calcite	35	30
Nannofossils	15	5
Organic debris		5
Quartz	15	20



SITE 724 HOLE B CORE 16X CORED INTERVAL 734.5-744.2 mbsl; 141.7-151.4 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
PLIOCENE	*C/M	N22	*A/M	NN19 *Pseudoemiliania lacunosa*	*Barren	Olduvai	● φ=55.9 γ=1.75 ● φ=55.4 γ=1.70 ● φ=56.1 γ=1.75	IC= 6.78 OC= 2.19	1	0.5 VOID 142.05 VOID 142.33 1.0 VOID 142.78		1 1 1	*
									2	VOID 143.2 VOID 144.0		1 1	
									3	VOID 144.04		1	OG
									4	VOID 145.74 VOID 146.08		1	IW
									5	VOID 146.34 VOID 146.79 VOID 147.15 VOID 147.41		1 1 1	*
									6	VOID 147.71		1	
									7		0	1	
									CC			1	

LITHOLOGIC DESCRIPTION

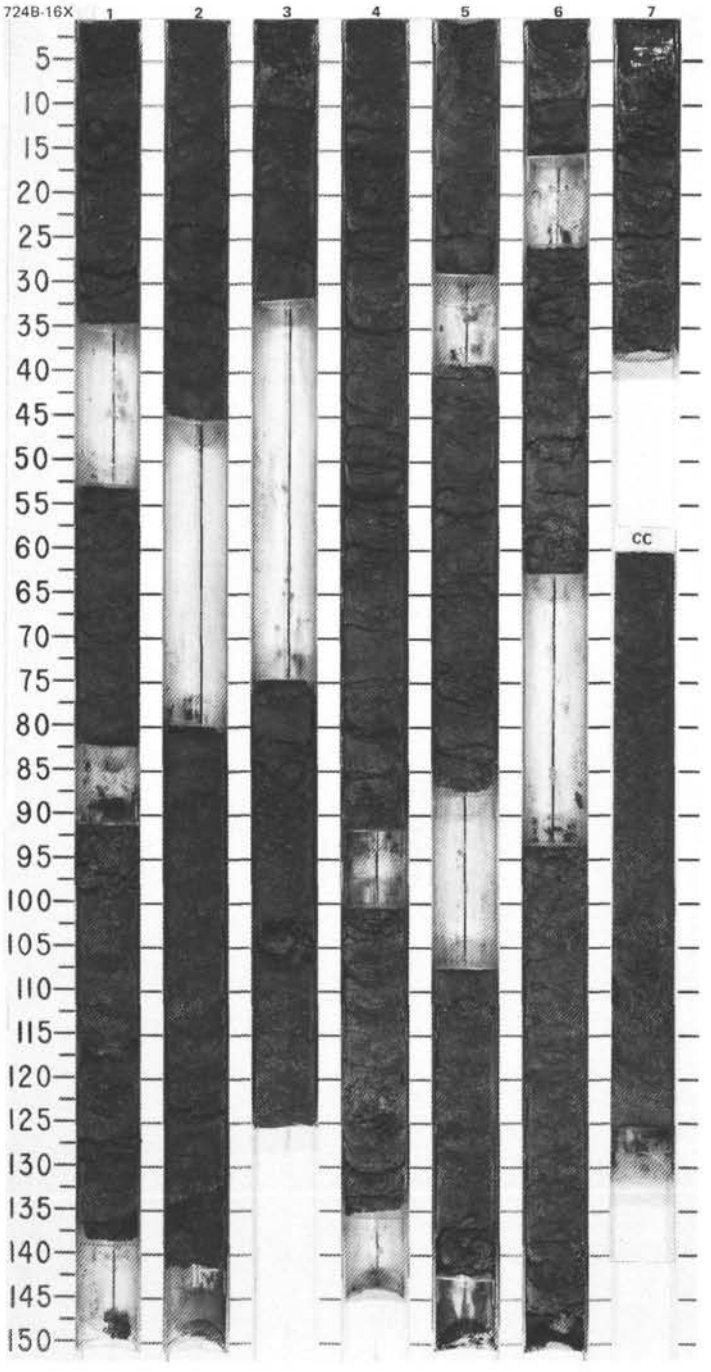
CALCAREOUS CLAYEY SILT

Section 7, 0-10 cm, soupy; Section 4, 20-30 cm, and Section 5, 0-29 and 40-85 cm, moderately disturbed; remainder slightly disturbed. Voids caused during gas expansion.

Major lithology: CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2) and dark olive gray (5Y 3/2). Minor burrow mottling throughout. Bedding contacts are gradational and mottled. Foraminifers visible.

SMEAR SLIDE SUMMARY (%):

	1, 102 D	5, 43 D
TEXTURE:		
Sand	10	15
Silt	25	20
Clay	65	65
COMPOSITION:		
Access. minerals	2	2
Clay	30	35
Dolomite		Tr
Feldspar	1	
Foraminifers	2	1
Inorganic calcite	20	25
Mica	Tr	
Nannofossils	35	30
Quartz	10	7
Sponge spicules	Tr	Tr



SITE 724 HOLE B CORE 17X CORED INTERVAL 744.2-753.8 mbsl; 151.4-161.0 mbsf

TIME-ROCK UNIT: PLIOCENE

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

PALEOMAGNETICS: O Matuyama O

PHYS. PROPERTIES: ●ϕ=55.5 γ=1.77; ●ϕ=53.6 γ=1.79; ●ϕ=53.6 γ=1.83

CHEMISTRY

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

VOID 151.61
VOID 152.0
VOID 152.65
VOID 153.05
VOID 153.47
VOID 153.73
VOID154.36
VOID154.91
VOID155.63
VOID 156.38
VOID 156.93
VOID 157.52
VOID 158.16

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: #

LITHOLOGIC DESCRIPTION

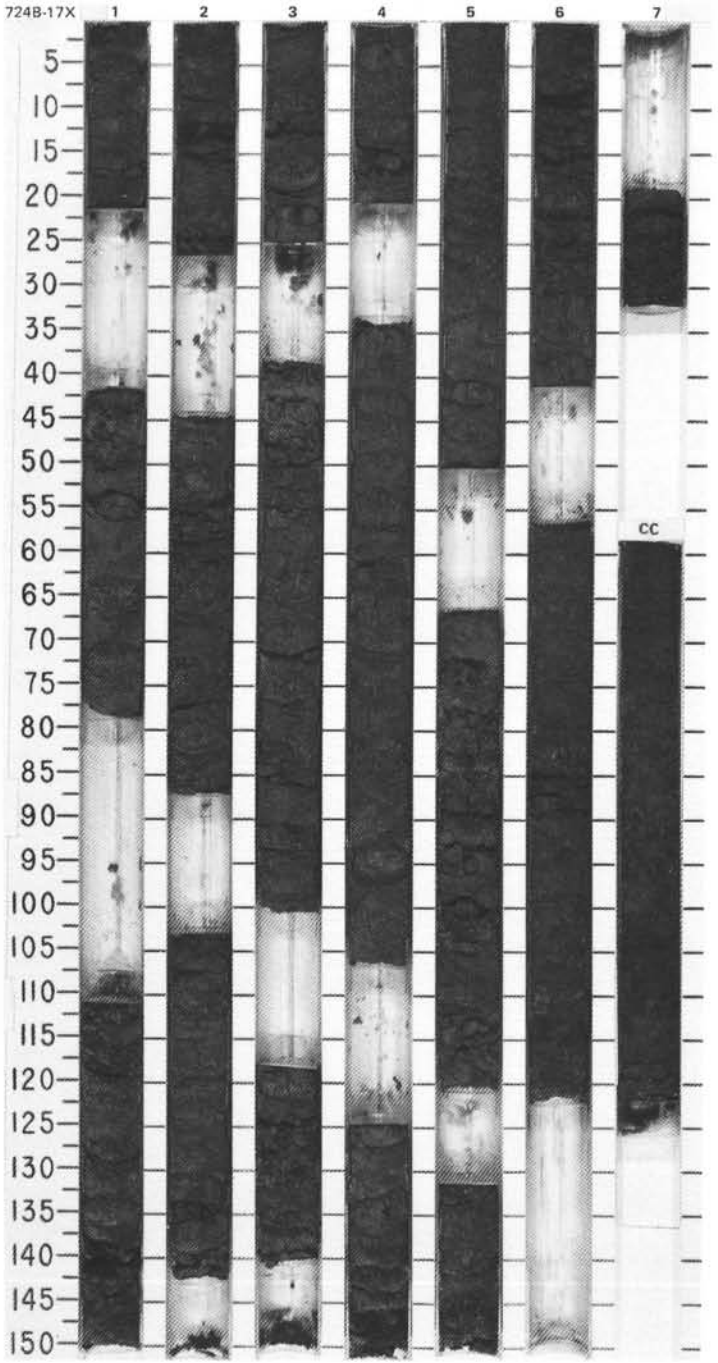
CALCAREOUS CLAYEY SILT

Section 7, 18-32 cm, very disturbed; Section 1, 40-50 and 110-150 cm, and Section 5, 65-120 cm, moderately disturbed; remainder slightly disturbed. Voids caused during gas expansion.

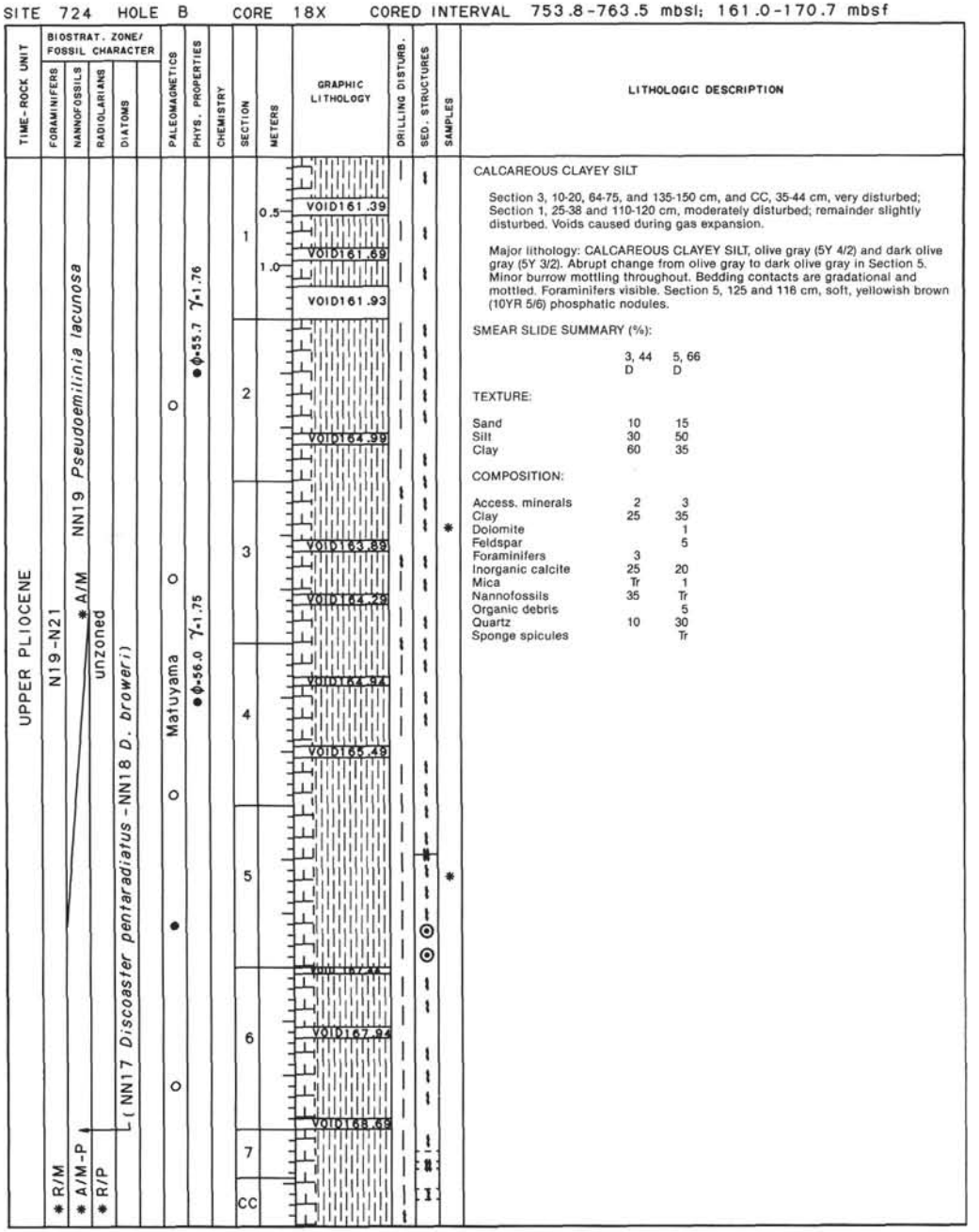
Major lithology: CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2). Bedding contacts are gradational and mottled. Foraminifers visible.

SMEAR SLIDE SUMMARY (%):

	2, 79 D	2, 83 D
TEXTURE:		
Sand	20	20
Silt	20	20
Clay	60	60
COMPOSITION:		
Access. minerals	2	2
Clay	30	30
Feldspar	1	
Foraminifers	2	3
Inorganic calcite	20	25
Mica		Tr
Nannofossils	30	30
Quartz	15	10
Sponge spicules	Tr	



SITE 724 HOLE B CORE 18X CORED INTERVAL 753.8-763.5 mbsl; 161.0-170.7 mbsf



LITHOLOGIC DESCRIPTION

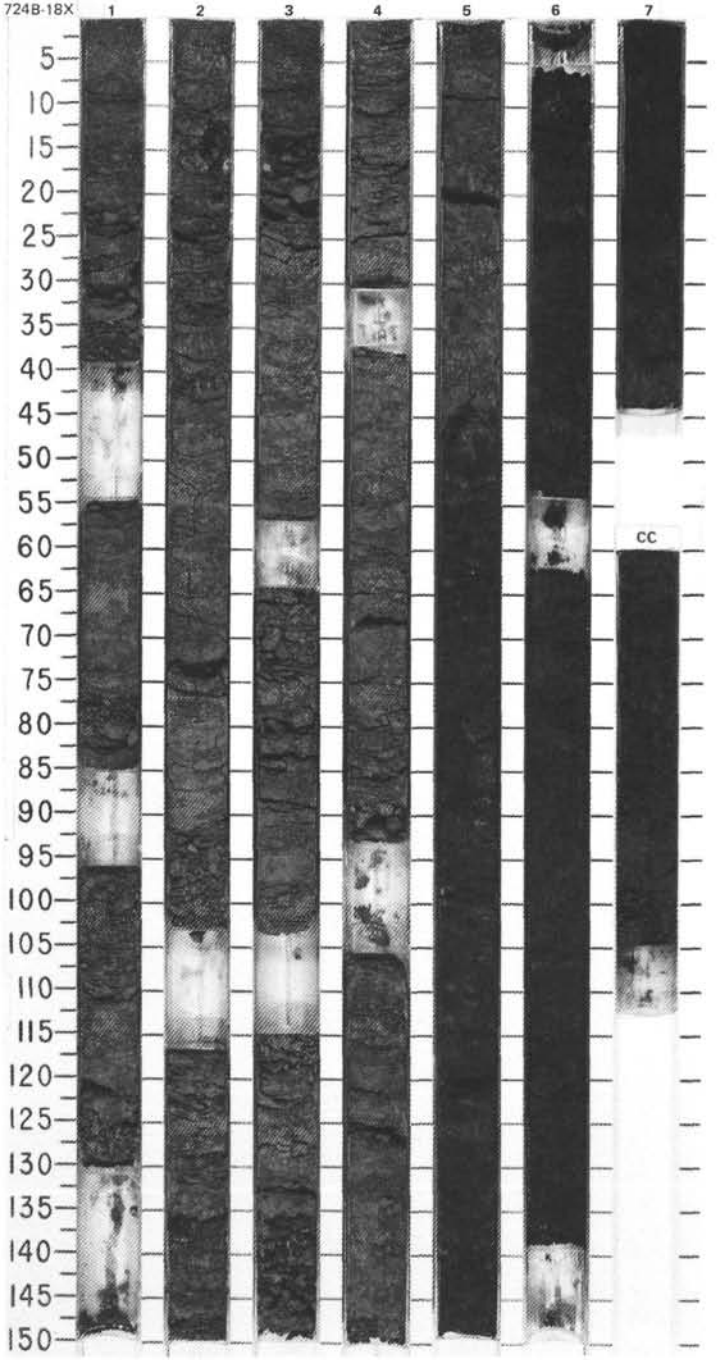
CALCAREOUS CLAYEY SILT

Section 3, 10-20, 64-75, and 135-150 cm, and CC, 35-44 cm, very disturbed; Section 1, 25-38 and 110-120 cm, moderately disturbed; remainder slightly disturbed. Voids caused during gas expansion.

Major lithology: CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2) and dark olive gray (5Y 3/2). Abrupt change from olive gray to dark olive gray in Section 5. Minor burrow mottling throughout. Bedding contacts are gradational and mottled. Foraminifers visible. Section 5, 125 and 116 cm, soft, yellowish brown (10YR 5/6) phosphatic nodules.

SMEAR SLIDE SUMMARY (%):

	3, 44 D	5, 66 D
TEXTURE:		
Sand	10	15
Silt	30	50
Clay	60	35
COMPOSITION:		
Access. minerals	2	3
Clay	25	35
Dolomite		1
Feldspar		5
Foraminifers	3	
Inorganic calcite	25	20
Mica	Tr	1
Nannofossils	35	Tr
Organic debris		5
Quartz	10	30
Sponge spicules		Tr



SITE 724 HOLE B CORE 19X CORED INTERVAL 763.5-773.2 mbsl; 170.7-180.4 mbsf

TIME-ROCK UNIT	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLIOCENE	N19 - N21; * R/M	NN17 *Discoaster pentaradiatus*-NN18 *Discoaster brouweri*; * C/P	*Barren		Matuyama	●φ=59.8 γ=1.63; ●φ=52.7 γ=1.80; ●φ=54.3 γ=1.73	●IC=6.29 OC=3.24	1, 2, 3, 4, 5, 6, 7, CC	0.5, 1.0	VOID 171.35; VOID 171.7; VOID 171.82; VOID 175.38; VOID 176.13; VOID 176.48; VOID 177.1			*; OG IW; *

LITHOLOGIC DESCRIPTION

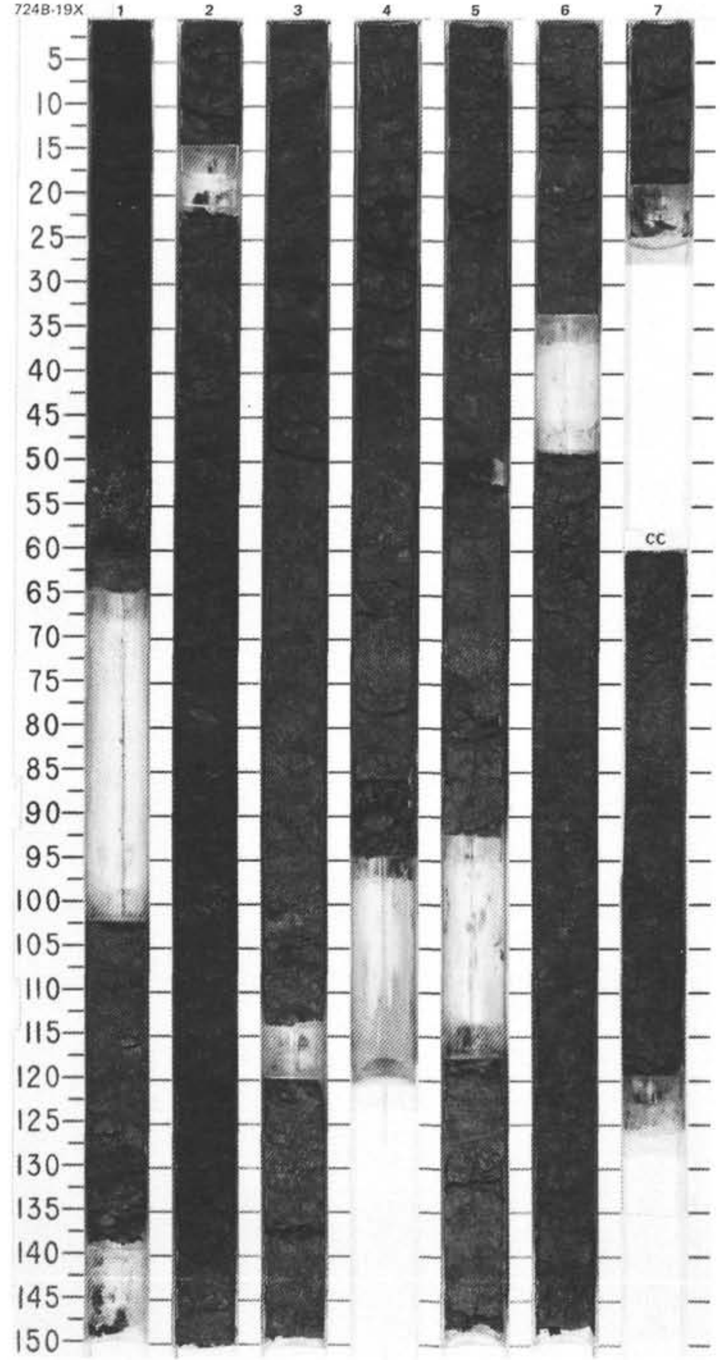
CALCAREOUS CLAYEY SILT

Section 1, 45-60 cm, and Section 7, 0-28 cm, moderately disturbed; remainder slightly disturbed. Voids caused during gas expansion.

Major lithology: CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2) and dark olive gray (5Y 3/2). Minor to moderate burrow mottling. Bedding contacts are gradational and mottled. Foraminifers visible.

SMEAR SLIDE SUMMARY (%):

	2, 88 D	5, 133 D
TEXTURE:		
Sand	20	15
Silt	45	30
Clay	35	55
COMPOSITION:		
Access. minerals	3	2
Clay	35	25
Dolomite	Tr	Tr
Feldspar	5	
Foraminifers		3
Volcanic glass	Tr	
Inorganic calcite	12	25
Nannofossils		30
Organic debris	5	
Quartz	40	15
Sponge spicules	Tr	Tr



SITE 724 HOLE B CORE 20X CORED INTERVAL 773.2-782.8 mbsl; 180.4-190.0 mbsf

TIME-ROCK UNIT: PLIOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS * R/M N19-N21; NANNOFOSSILS * NN17 *Discoaster pentaradiatus* - NN18 *Discoaster brouweri*; RADIOLARIANS *Pterocanium prismatium*; DIATOMS * F/G

PALEOMAGNETICS: Matuyama

PHYS. PROPERTIES: ●Φ-60.5 γ-1.64; ●Φ-55.9 γ-1.69; ●Φ-51.4 γ-1.82

CHEMISTRY

SECTION: 1 2 3 4 5 6 7

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

VOID 182.48

VOID 183.02

VOID 183.36

VOID 184.73

VOID 185.35

VOID 185.47

VOID 186.07

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES *

LITHOLOGIC DESCRIPTION

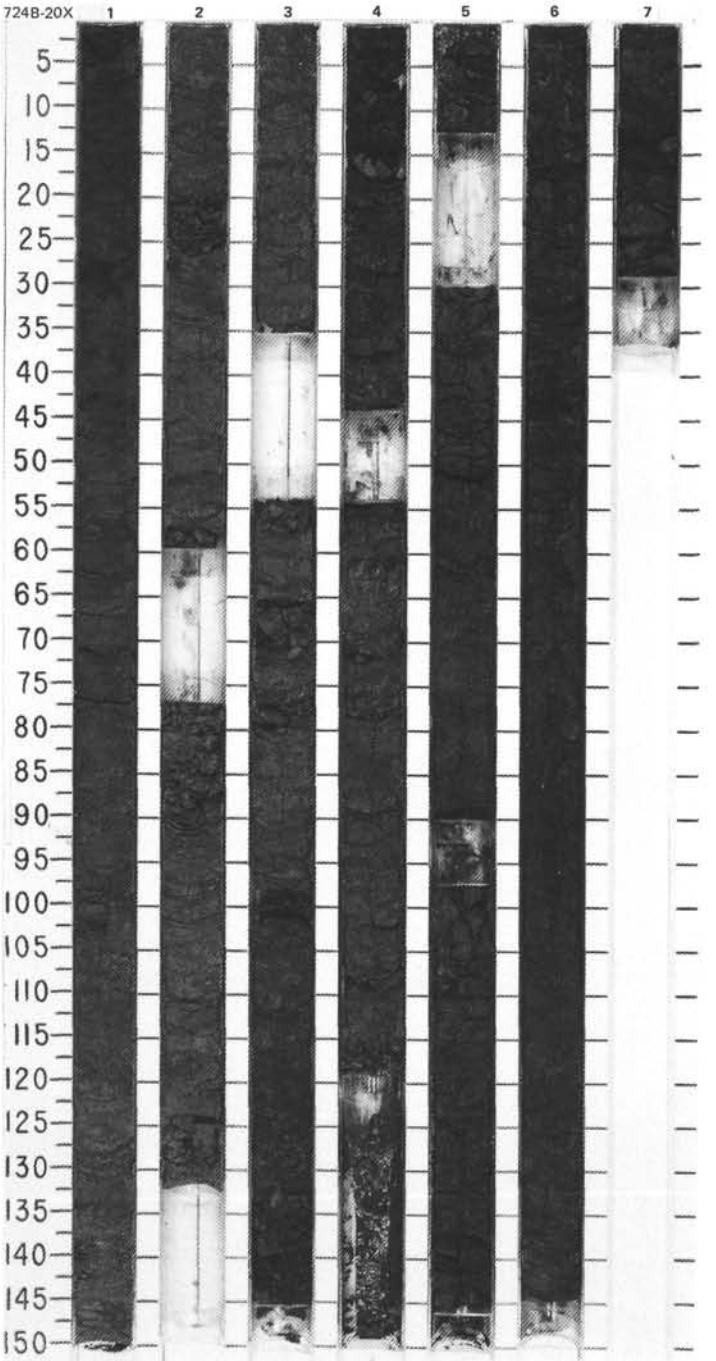
CALCAREOUS CLAYEY SILT

Section 2, 20-30, 76-90, and 120-131 cm, and Section 4, 0-20 cm, very disturbed; remainder slightly disturbed. Voids caused during gas expansion.

Major lithology: CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2) and dark olive gray (5Y 3/2). Minor burrow mottling throughout. Bedding contacts are gradational and mottled. Foraminifers visible. Section 6, 86 cm, phosphatic nodule present.

SMEAR SLIDE SUMMARY (%):

	3, 13 D	6, 92 D
TEXTURE:		
Sand	20	25
Silt	30	30
Clay	50	45
COMPOSITION:		
Access. minerals	3	3
Clay	25	45
Diatoms		Tr
Feldspar	2	6
Foraminifers	2	
Inorganic calcite	28	10
Mica		1
Nannofossils	25	Tr
Organic debris		5
Quartz	15	30
Radiolarians		Tr
Sponge spicules		Tr



SITE 724 HOLE B CORE 21X CORED INTERVAL 782.8-792.5 mbsl; 190.0-199.7 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	* R/M	NN16 *Discoaster surculus* / NN17 *Discoaster pentaradiatus* - NN18 *Discoaster brouweri*	* C/P	* F/G	Gauss	●ϕ=61.9 γ=1.57		1, 2, 3, CC	0.5, 1.0	VOID 192.15; VOID 192.42			* *

Pterocanium prismatium

LITHOLOGIC DESCRIPTION

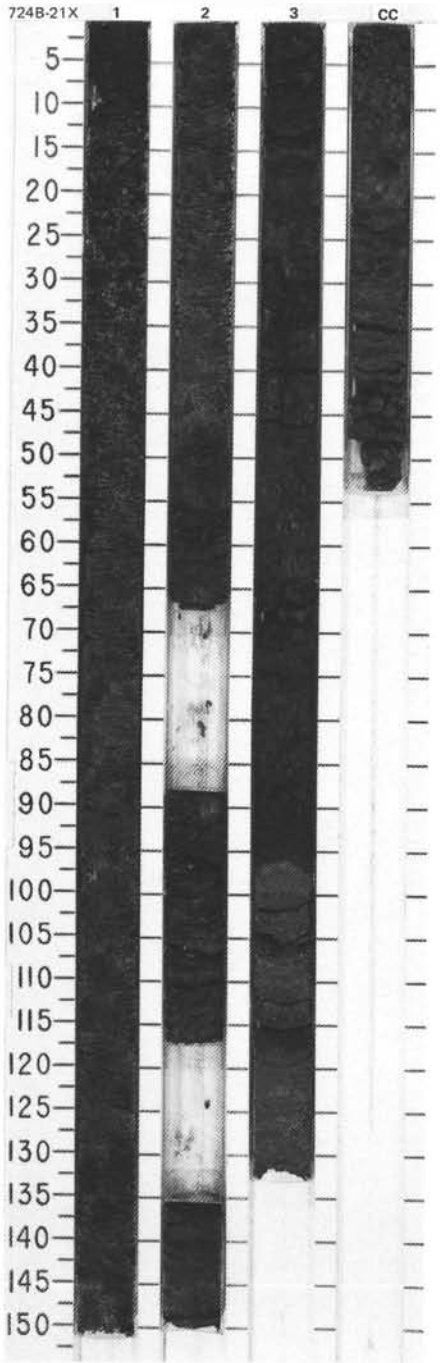
CALCAREOUS CLAYEY SILT

Section 1, 0-20 cm, very disturbed; Section 1, 20-150 cm, moderately disturbed; remainder slightly disturbed. Voids caused during gas expansion.

Major lithology: CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2) and dark olive gray (5Y 3/2). Minor burrow mottling throughout. Bedding contacts are gradational and mottled. Foraminifers visible.

SMEAR SLIDE SUMMARY (%):

	3, 86 D	3, 99 D
TEXTURE:		
Sand	13	20
Silt	32	20
Clay	55	60
COMPOSITION:		
Access. minerals	2	2
Clay	60	25
Dolomite		Tr
Feldspar	3	
Foraminifers	Tr	5
Volcanic glass		12
Inorganic calcite	10	
Mica		1
Nannofossils		45
Quartz	25	10
Sponge spicules		Tr



SITE 724 HOLE B CORE 22X CORED INTERVAL 792.5-802.2 mbsl: 199.7-209.4 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
PLIOCENE ?	*Barren	*Barren	*F/G *Spongaster pentas			ϕ=60.2 γ=1.61		1 CC	0.5 1.0		O		*

LITHOLOGIC DESCRIPTION

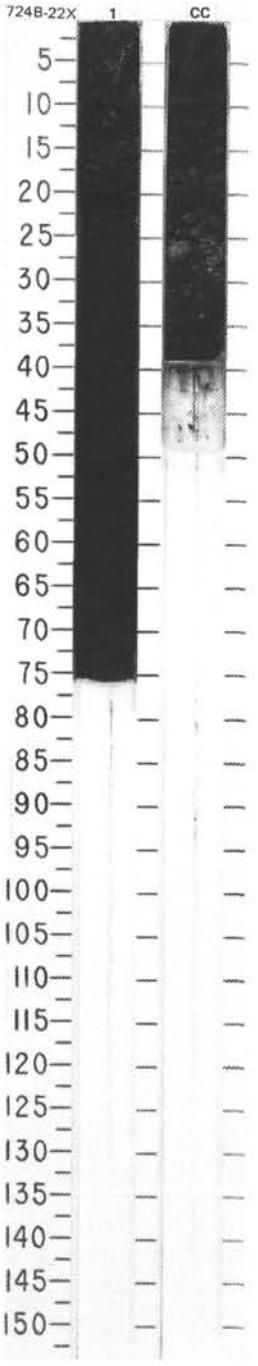
CALCAREOUS CLAYEY SILT

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

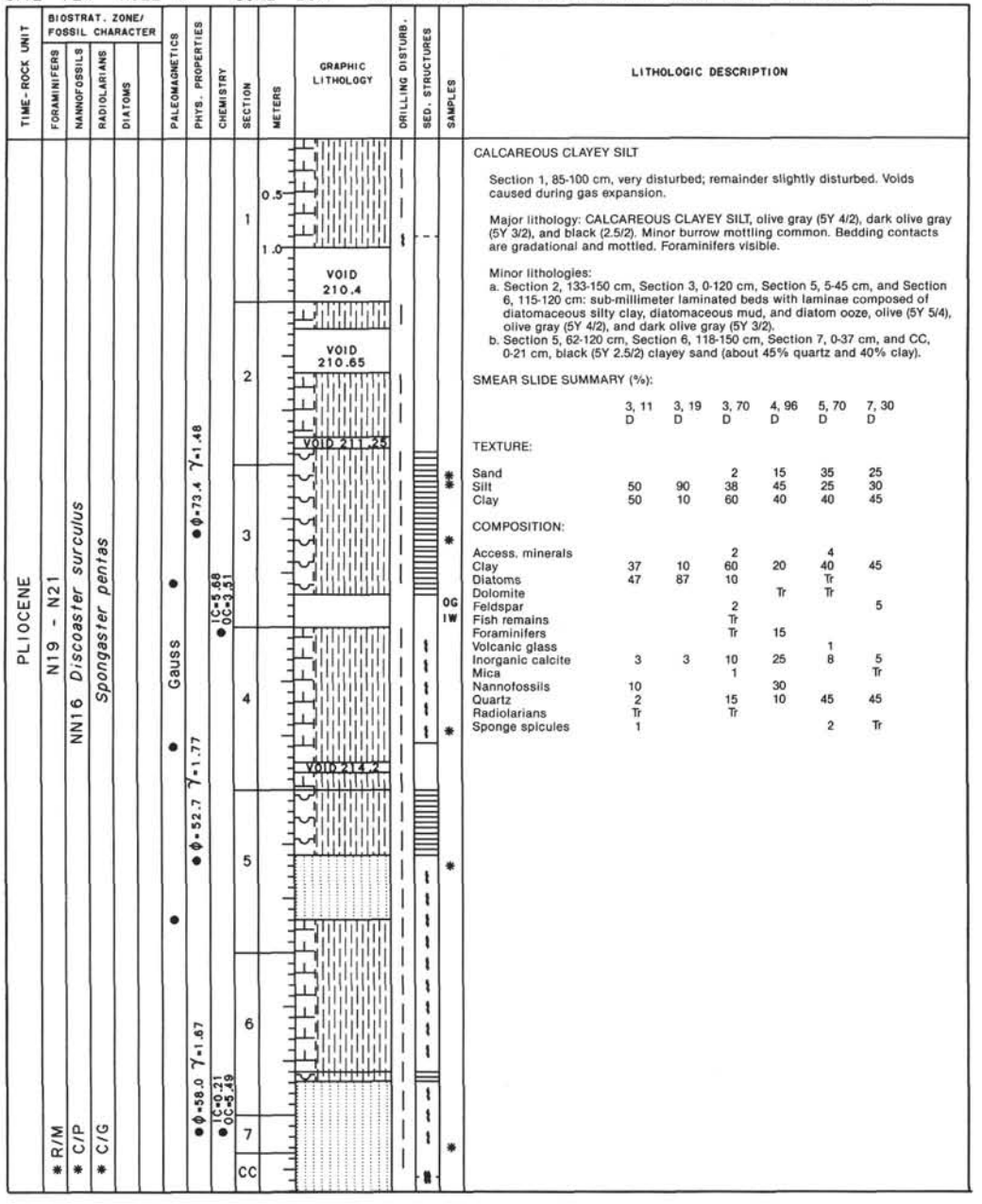
Major lithology: CALCAREOUS CLAYEY SILT, dark olive gray (5Y 3/2). Minor burrow mottling throughout.

SMEAR SLIDE SUMMARY (%):

	1, 47 D
TEXTURE:	
Sand	3
Silt	80
Clay	17
COMPOSITION:	
Access. minerals	3
Clay	17
Diatoms	2
Dolomite	Tr
Inorganic calcite	38
Quartz	40
Sponge spicules	Tr



SITE 724 HOLE B CORE 23X CORED INTERVAL 802.2-811.8 mbsl; 209.4-219.0 mbsf



LITHOLOGIC DESCRIPTION

CALCAREOUS CLAYEY SILT

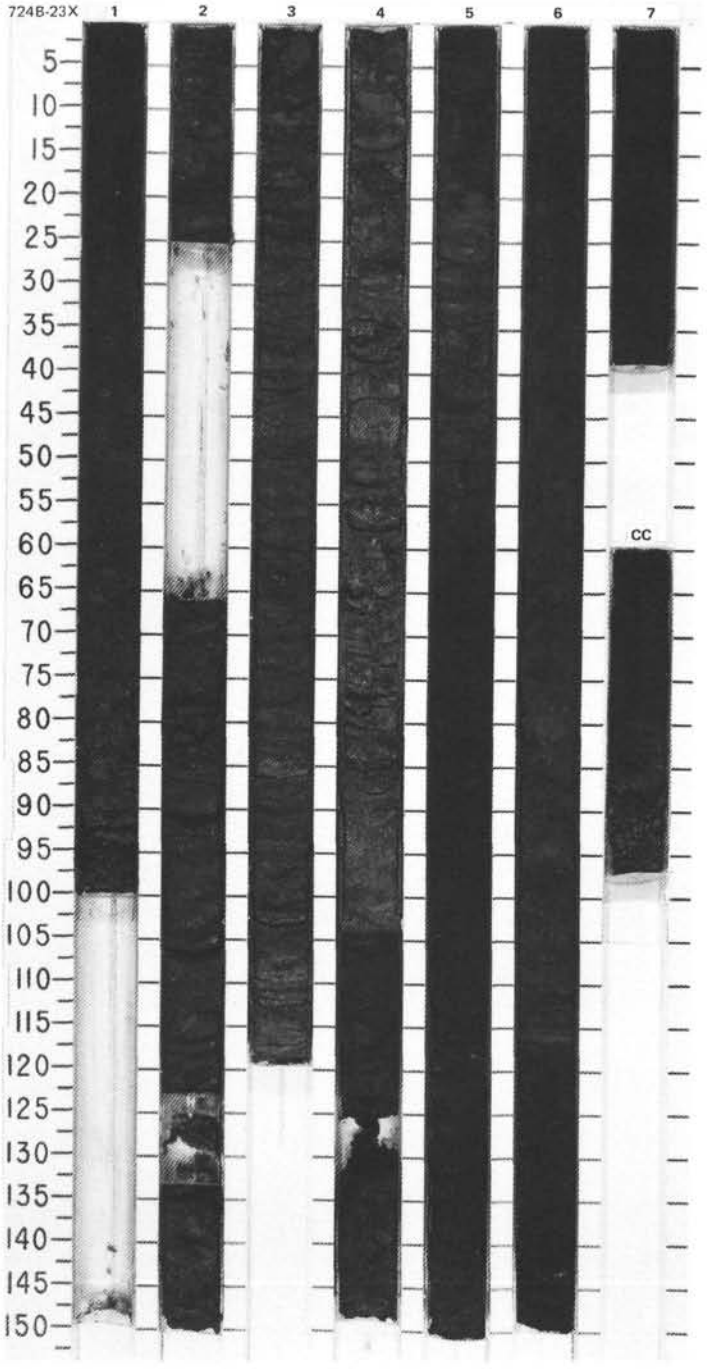
Section 1, 85-100 cm, very disturbed; remainder slightly disturbed. Voids caused during gas expansion.

Major lithology: CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2), dark olive gray (5Y 3/2), and black (2.5/2). Minor burrow mottling common. Bedding contacts are gradational and mottled. Foraminifers visible.

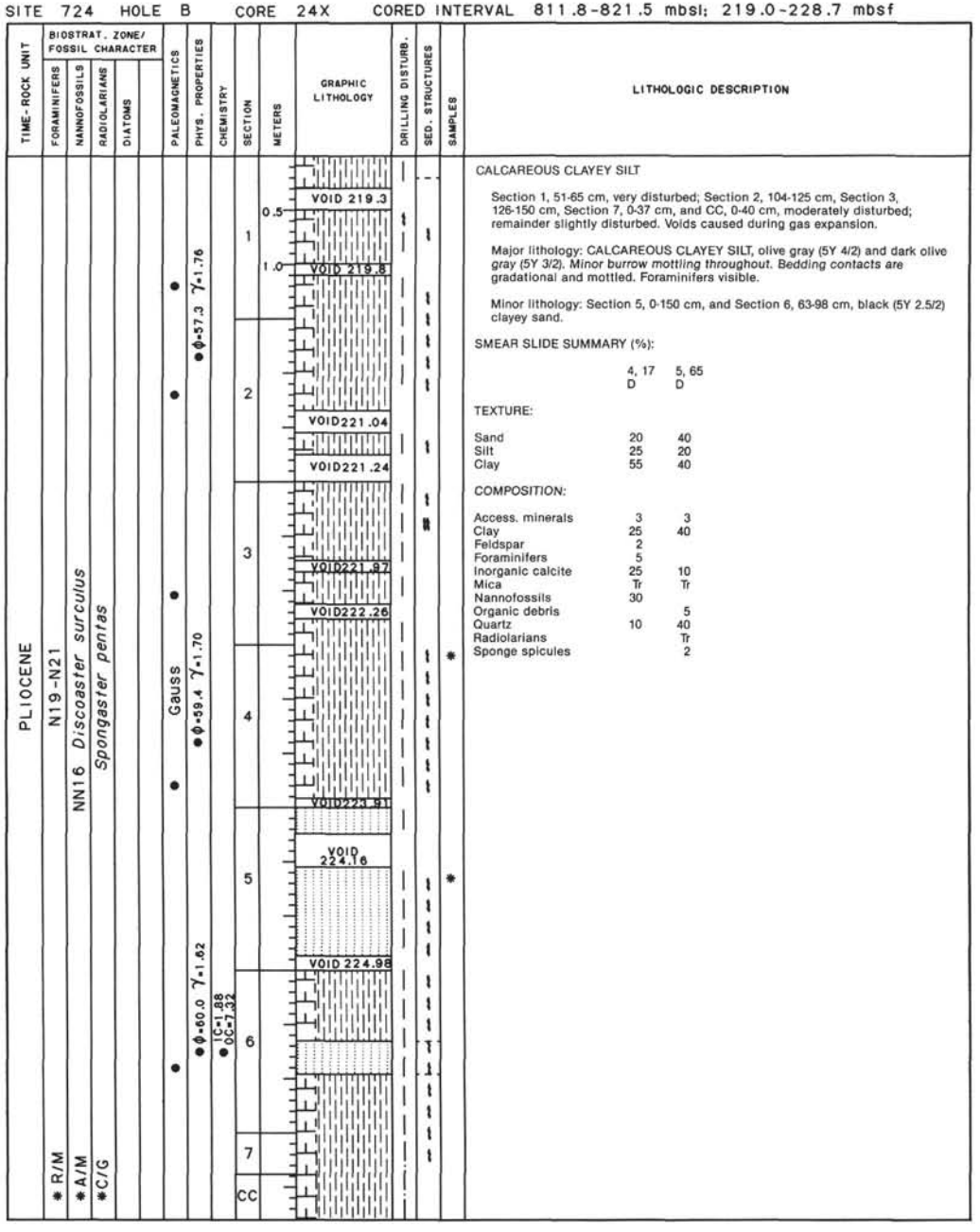
Minor lithologies:
a. Section 2, 133-150 cm, Section 3, 0-120 cm, Section 5, 5-45 cm, and Section 6, 115-120 cm: sub-millimeter laminated beds with laminae composed of diatomaceous silty clay, diatomaceous mud, and diatom ooze, olive (5Y 5/4), olive gray (5Y 4/2), and dark olive gray (5Y 3/2).
b. Section 5, 62-120 cm, Section 6, 118-150 cm, Section 7, 0-37 cm, and CC, 0-21 cm, black (5Y 2.5/2) clayey sand (about 45% quartz and 40% clay).

SMEAR SLIDE SUMMARY (%):

	3, 11 D	3, 19 D	3, 70 D	4, 96 D	5, 70 D	7, 30 D
TEXTURE:						
Sand			2	15	35	25
Silt	50	90	38	45	25	30
Clay	50	10	60	40	40	45
COMPOSITION:						
Access. minerals			2		4	
Clay	37	10	60	20	40	45
Diatoms	47	87	10		Tr	
Dolomite				Tr	Tr	
Feldspar			2			5
Fish remains			Tr			
Foraminifers			Tr	15		
Volcanic glass					1	
Inorganic calcite	3	3	10	25	8	5
Mica			1			Tr
Nannofossils	10			30		
Quartz	2		15	10	45	45
Radiolarians	Tr		Tr			
Sponge spicules	1				2	Tr



SITE 724 HOLE B CORE 24X CORED INTERVAL 811.8-821.5 mbsl; 219.0-228.7 mbsf



LITHOLOGIC DESCRIPTION

CALCAREOUS CLAYEY SILT

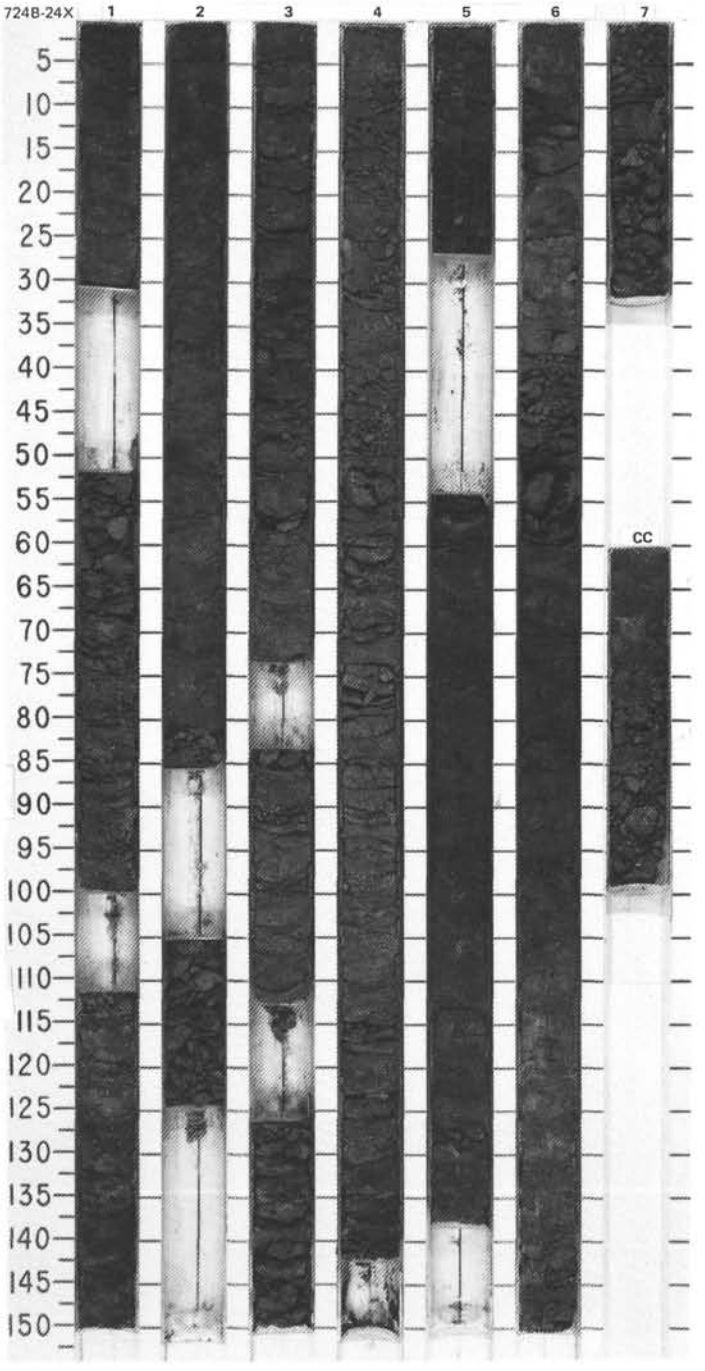
Section 1, 51-65 cm, very disturbed; Section 2, 104-125 cm, Section 3, 126-150 cm, Section 7, 0-37 cm, and CC, 0-40 cm, moderately disturbed; remainder slightly disturbed. Voids caused during gas expansion.

Major lithology: CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2) and dark olive gray (5Y 3/2). *Minor burrow mottling throughout. Bedding contacts are* gradational and mottled. Foraminifers visible.

Minor lithology: Section 5, 0-150 cm, and Section 6, 63-98 cm, black (5Y 2.5/2) clayey sand.

SMEAR SLIDE SUMMARY (%):

	4, 17 D	5, 65 D
TEXTURE:		
Sand	20	40
Silt	25	20
Clay	55	40
COMPOSITION:		
Access. minerals	3	3
Clay	25	40
Feldspar	2	
Foraminifers	5	
Inorganic calcite	25	10
Mica	Tr	Tr
Nannofossils	30	
Organic debris		5
Quartz	10	40
Radiolarians		Tr
Sponge spicules		2



SITE 724 HOLE B CORE 25X CORED INTERVAL 821.5-831.2 mbsl; 228.7-238.4 mbsf

TIME-ROCK UNIT: PLIOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER:
- FORAMINIFERS: * R/M
- NANNOFOSSILS: N19-N21; NN16 *Discoaster surculus*
- RADIOLARIANS: * A/M
- DIATOMS: * R/G; *Spongaster pentas*

PALEOMAGNETICS: Gauss

PHYS. PROPERTIES: ●ϕ=52.6 γ=1.82; ●ϕ=53.8 γ=1.83; ●ϕ=56.1 γ=1.75

CHEMISTRY: IC=5.88, OC=1.94

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID 228.9; VOID 229.4; VOID 231.05; VOID 231.09; VOID 233.07; VOID 234.08; VOID 234.6

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: *, *, OG, IW

LITHOLOGIC DESCRIPTION

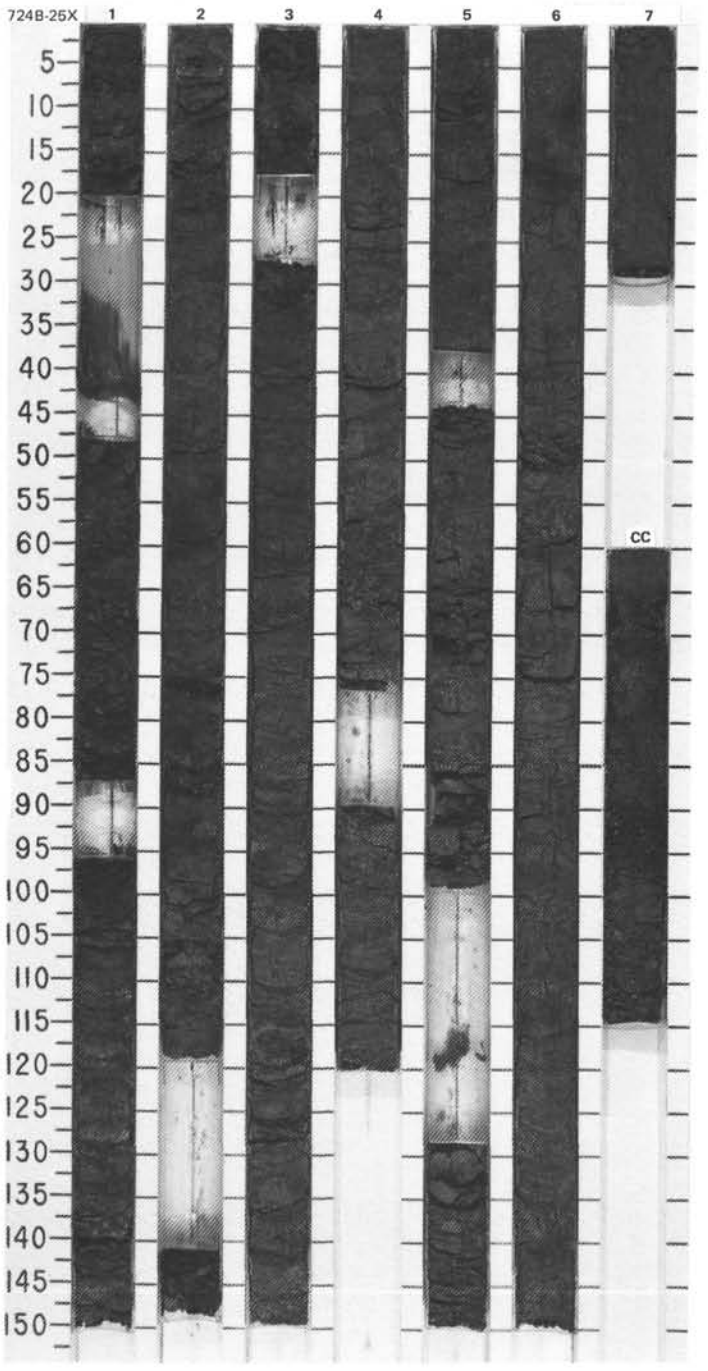
CALCAREOUS CLAYEY SILT

Entire core slightly disturbed. Voids caused during gas expansion.

Major lithology: CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2). Minor burrow mottling throughout. Foraminifers visible.

SMEAR SLIDE SUMMARY (%):

	1, 17 D	3, 101 D
TEXTURE:		
Sand	15	10
Silt	35	30
Clay	50	60
COMPOSITION:		
Access. minerals	3	2
Clay	35	27
Dolomite		Tr
Feldspar		2
Foraminifers		3
Volcanic glass	Tr	
Inorganic calcite	35	25
Mica		1
Nannofossils	15	30
Organic debris	5	
Quartz	7	10
Sponge spicules	Tr	



SITE 724 HOLE B CORE 26X CORED INTERVAL 831.2-840.8 mbsl; 238.4-248.0 mbsf

TIME-ROCK UNIT: PLIOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER:
- FORAMINIFERS: N19-N21
- NANNOFOSSILS: NN16 / NN15 *Reticulofenestra pseudoumbilica*
- RADIOLARIANS: *Spongaster pentas*
- DIATOMS:

PALEOMAGNETICS
PHYS. PROPERTIES: ●Φ=60.6 γ=1.69; ●Φ=50.9 γ=1.81; ●Φ=56.6 γ=1.82
CHEMISTRY
SECTION: 1, 2, 3, 4, 5, 6, 7, CC
METERS: 0.5, 1.0
GRAPHIC LITHOLOGY
DRILLING DISTURB.
SED. STRUCTURES
SAMPLES

VOID 239.0
VOID 239.34
VOID239.34
VOID240.14
VOID240.66
VOID241.05
VOID241.57
VOID 241.74
VOID 242.34
VOID243.65
VOID 244.3

LITHOLOGIC DESCRIPTION

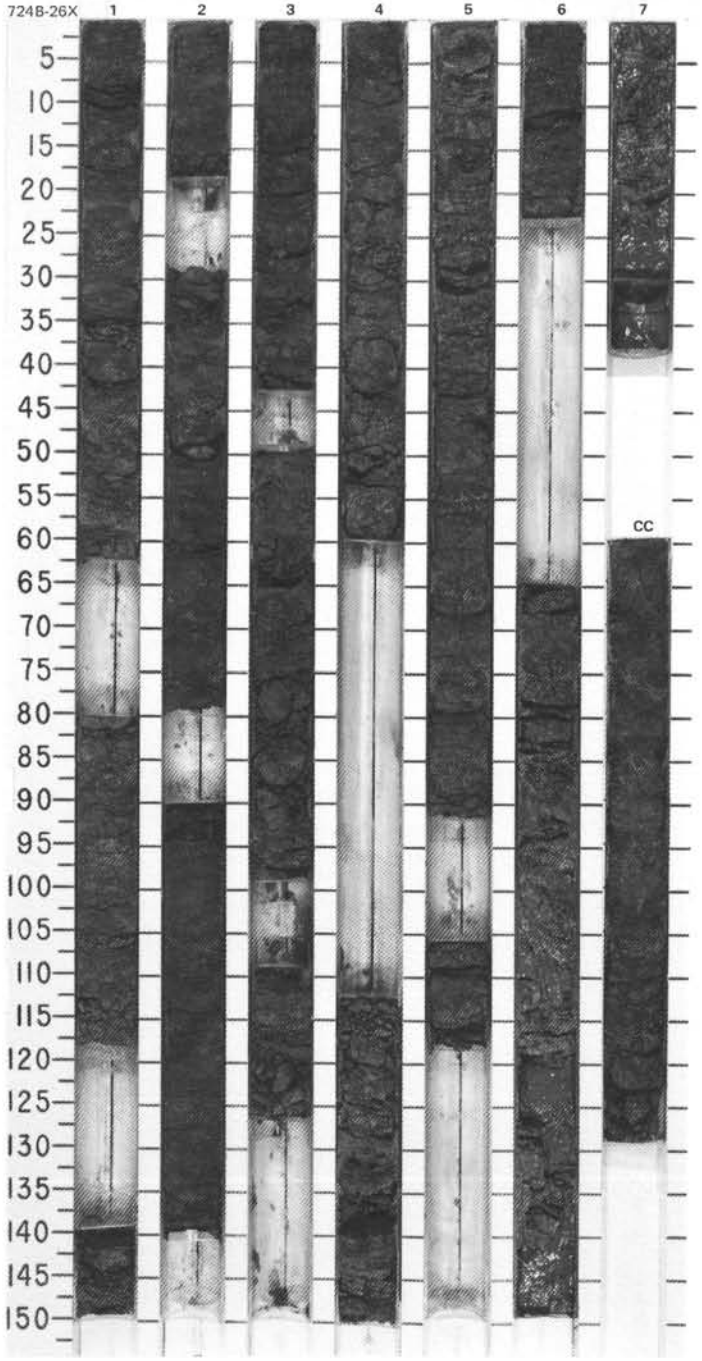
MARLY FORAMINIFER-BEARING NANNOFOSSIL OOZE

Section 6, 90-150 cm, and Section 7, 0-27 cm, soupy; remainder moderately disturbed. Voids caused during gas expansion.

Major lithology: MARLY FORAMINIFER-BEARING NANNOFOSSIL OOZE, olive gray (5Y 4/2). Minor burrow mottling throughout. Foraminifers visible.

SMEAR SLIDE SUMMARY (%):

	1, 83 D	6, 69 D
TEXTURE:		
Sand	20	15
Silt	30	25
Clay	50	60
COMPOSITION:		
Access. minerals	2	2
Clay	25	25
Dolomite	1	1
Feldspar	2	
Foraminifers	15	5
Inorganic calcite	15	22
Mica	Tr	
Nannofossils	25	35
Quartz	15	10
Sponge spicules		Tr



SITE 724 HOLE B CORE 27X CORED INTERVAL 840.8-850.5 mbsl; 248.0-257.7 mbsf

TIME-ROCK UNIT: PLIOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS: N19-N21; NANNOFOSSILS: NN15 *Reticulofenestra pseudoumbilica*; RADIOLARIANS: unzoned; DIATOMS

* F/M
* A/M
* R/G

PALEOMAGNETICS

PHYS. PROPERTIES: ●ϕ=58.4 γ=1.76; ●ϕ=61.4 γ=1.72; ●ϕ=58.3 γ=1.77

CHEMISTRY

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID 248.47; VOID 249.1; VOID 249.39; VOID 250.89; VOID 251.11; VOID; VOID; VOID; VOID; VOID

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES *

LITHOLOGIC DESCRIPTION

CALCAREOUS CLAYEY SILT

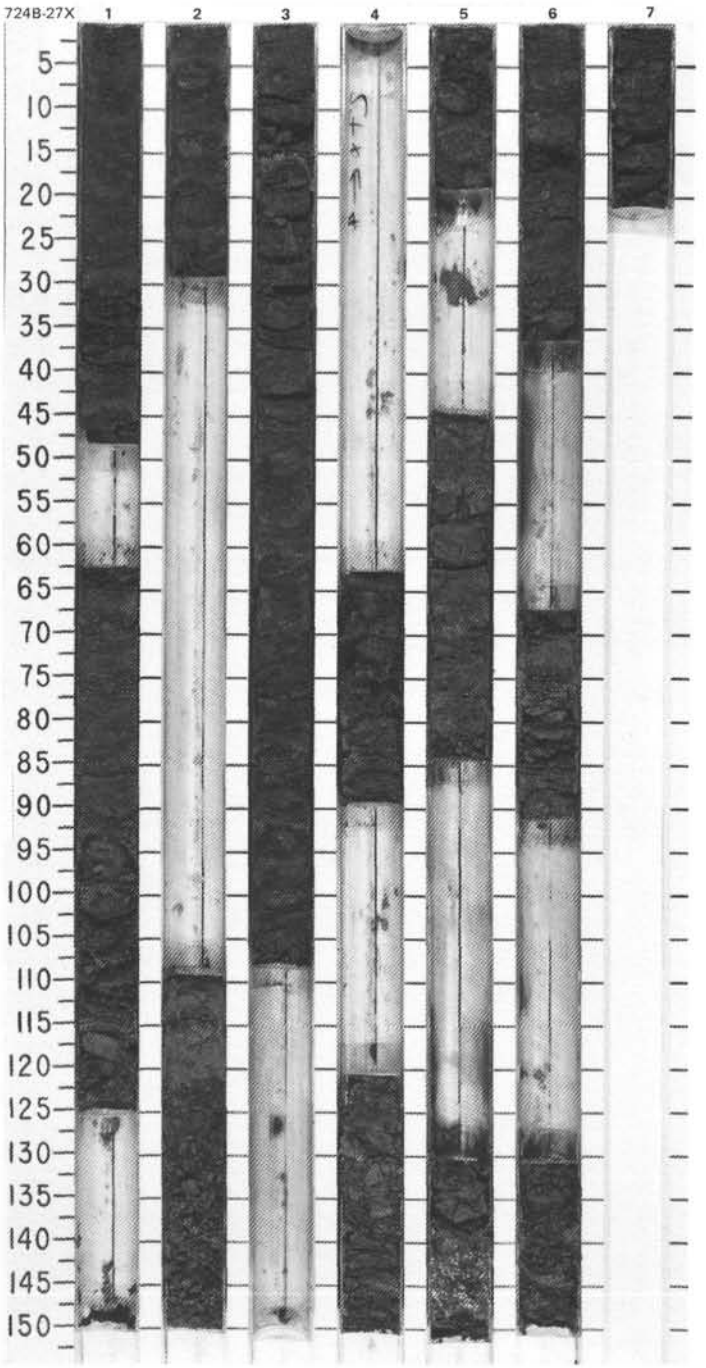
Section 5, 132-150 cm, soupy; Section 2, 109-150 cm, and Section 6, 132-150 cm, very disturbed; remainder moderately disturbed. Voids caused during gas expansion.

Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 4/3) and olive gray (5Y 4/2). Minor burrow mottling throughout. Foraminifers visible.

Minor lithology: Section 1, 7 cm (smear slide), diatomaceous calcareous clayey silt grading into calcareous clayey silt.

SMEAR SLIDE SUMMARY (%):

	1, 7 D	3, 6 D
TEXTURE:		
Sand	20	10
Silt	40	40
Clay	40	50
COMPOSITION:		
Access. minerals	2	2
Clay	25	30
Diatoms	15	
Dolomite		Tr
Feldspar	2	2
Foraminifers	1	3
Volcanic glass	Tr	
Inorganic calcite	20	30
Nannofossils	15	20
Quartz	20	13
Radiolarians	Tr	Tr
Sponge spicules		Tr



SITE 724 HOLE C CORE 1H CORED INTERVAL 592.8-595.6 mbsl; 0.0-2.8 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		*A/G NN21 *Emiliania huxleyi*				●ϕ=60 γ=1.68		1	0.5 1.0				*
								2					*
								CC					

LITHOLOGIC DESCRIPTION

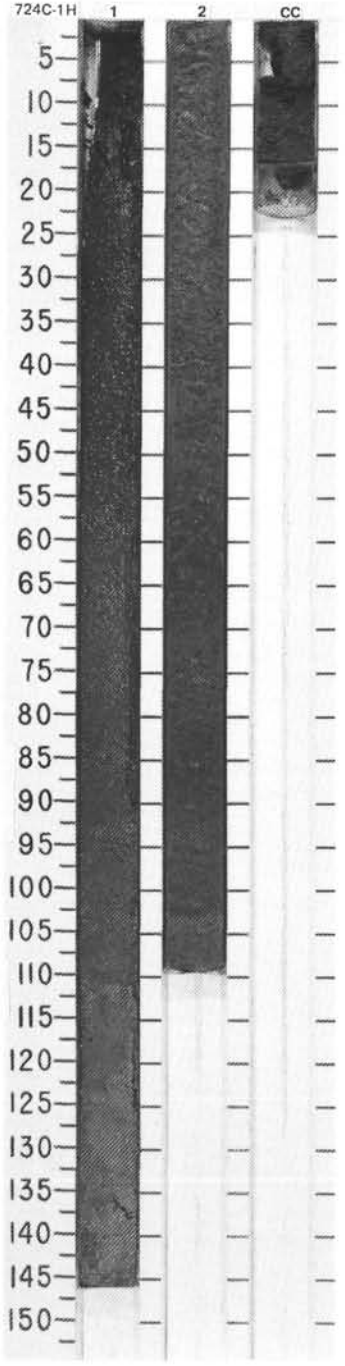
CALCAREOUS CLAYEY SILT

Section 1, 0-13 cm, slightly disturbed; remainder undisturbed.

Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 4/3) and olive gray (5Y 5/2, 4/2). Minor burrow mottles throughout. Contacts gradational and mottled. Millimeter-sized, indeterminate shell fragments common. Foraminifers visible.

SMEAR SLIDE SUMMARY (%):

	1, 94 D	2, 94 D
TEXTURE:		
Sand	70	30
Silt	30	30
Clay		40
COMPOSITION:		
Access. minerals	2	5
Clay		5
Dolomite	Tr	
Feldspar	3	
Foraminifers	5	5
Volcanic glass		2
Inorganic calcite	60	33
Nannofossils		40
Quartz	30	10



SITE 724 HOLE C CORE 2H CORED INTERVAL 595.6-605.0 mbsl: 2.8-12.2 mbsf

TIME-ROCK UNIT: PLEISTOCENE

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

PALEOMAGNETICS

PHYS. PROPERTIES: ●ϕ=61.3 γ=1.65

CHEMISTRY

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES: 6

SAMPLES: *, IW

LITHOLOGIC DESCRIPTION

CALCAREOUS CLAYEY SILT

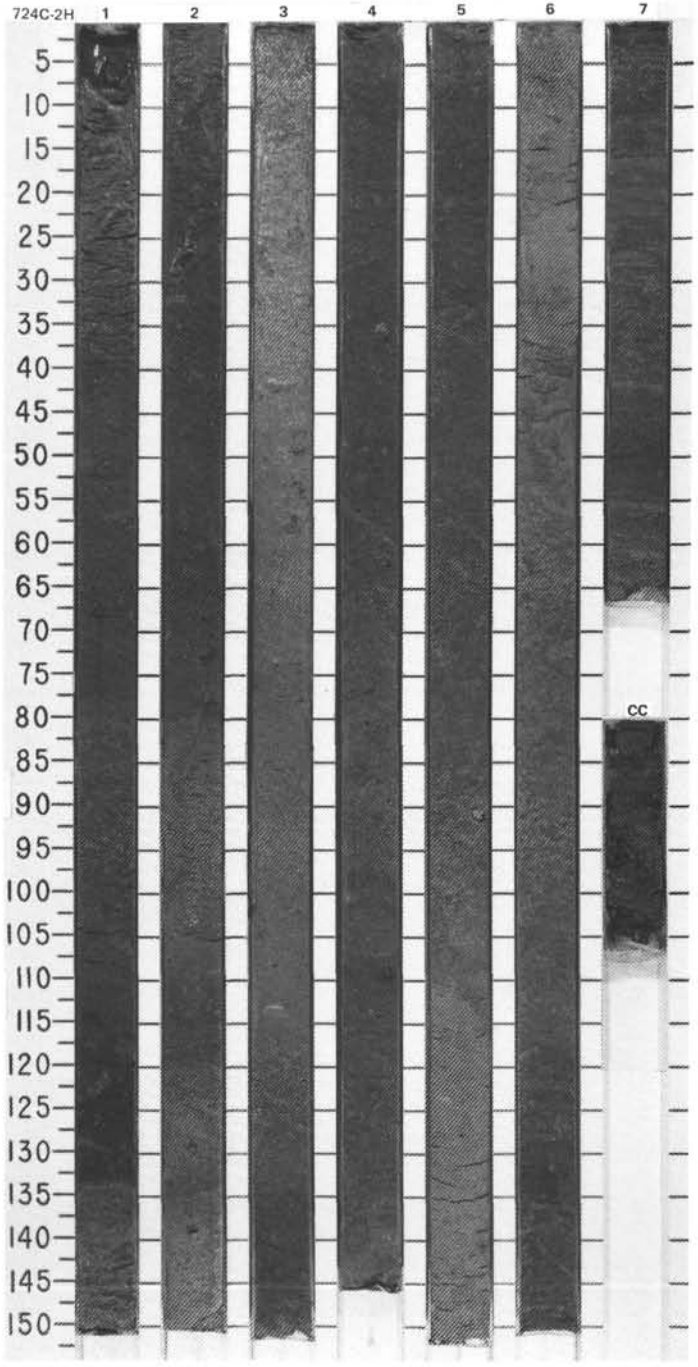
Section 1, 0-35 cm, and CC, 0-22 cm, moderately disturbed; remainder undisturbed.

Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 4/3) and olive gray (5Y 5/2, 4/2). Minor burrow mottles throughout. Contacts gradational and mottled. Millimeter-sized, indeterminate shell fragments common. Foraminifers, bivalves and scaphopods visible.

Minor lithology: Section 7, 0-63 cm, finely bedded layer consisting of beds 5-20 mm thick made of gray (5Y 4/1) calcitic silty clay and olive gray (5Y 4/2) nannofossil silty clay.

SMEAR SLIDE SUMMARY (%):

	1, 125 D	4, 127 D	5, 127 D
TEXTURE:			
Sand	30	30	30
Silt	30	25	25
Clay	40	45	45
COMPOSITION:			
Access. minerals	2	2	3
Clay	35	20	23
Dolomite	1		Tr
Foraminifers	4	25	4
Volcanic glass			Tr
Glauconite		Tr	
Inorganic calcite	33	18	35
Mica	1		
Nannofossils	4	25	20
Quartz	20	10	15
Shell debris		Tr	Tr
Sponge spicules	Tr		



SITE 724 HOLE C CORE 3H CORED INTERVAL 605.0-614.5 mbsl; 12.2-21.7 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/G	NN20 *Gephyrocapsa oceanica*				●ϕ-58.4 γ-1.79		1	0.5				
									1.0				
								2					*
								3					
								4					*
								5					IW
								6					
								7					
								CC					

LITHOLOGIC DESCRIPTION

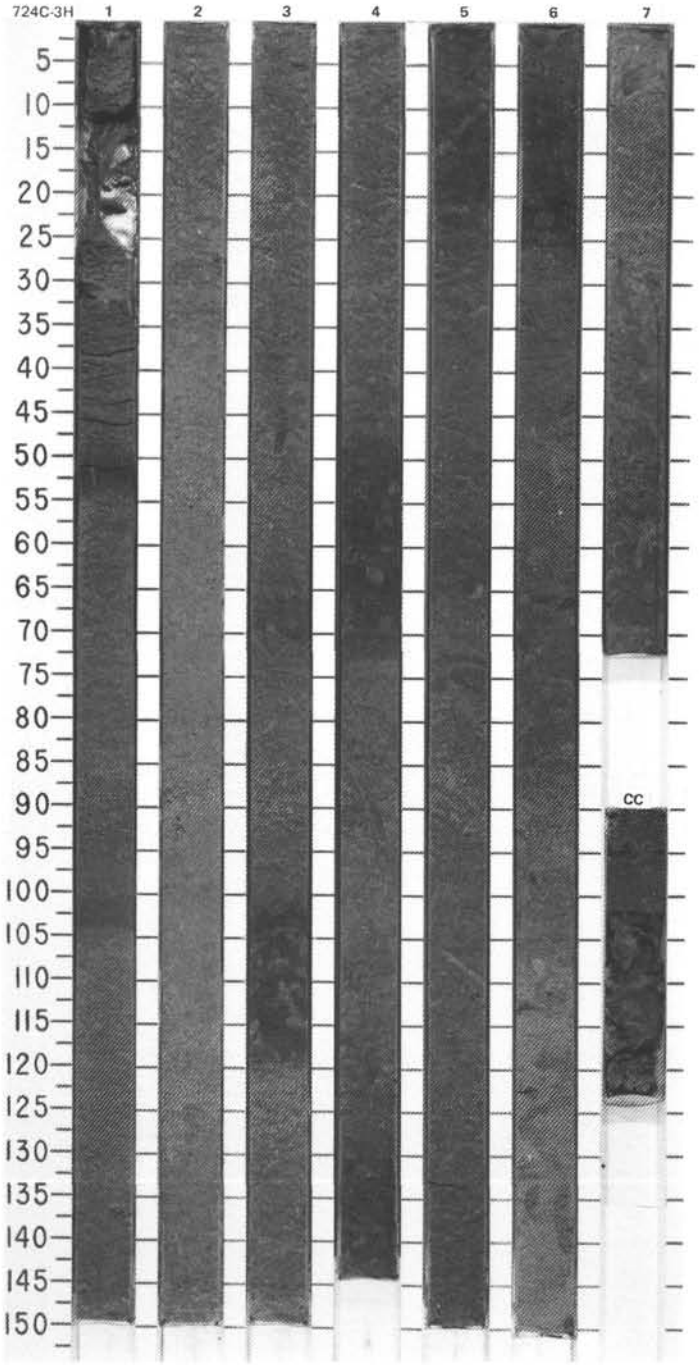
CALCAREOUS CLAYEY SILT

CC, 0-33 cm, slightly disturbed; remainder undisturbed.

Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 4/3), olive gray (5Y 5/2, 4/2), and dark olive gray (5Y 3/2). Minor to moderate burrow mottles. Contacts gradational and mottled. Millimeter-sized, indeterminate shell fragments common, locally concentrated in burrows.

SMEAR SLIDE SUMMARY (%):

	2, 55 D	4, 57 D
TEXTURE:		
Sand	25	20
Silt	25	45
Clay	50	35
COMPOSITION:		
Access. minerals	2	3
Clay	25	30
Dolomite	1	1
Foraminifers	1	1
Volcanic glass		Tr
Glauconite		Tr
Inorganic calcite	35	40
Mica	1	
Nannofossils	20	10
Organic debris		5
Quartz	15	10



SITE 724 HOLE C CORE 4H CORED INTERVAL 614.5-624.0 mbsl; 21.7-31.2 mbsf

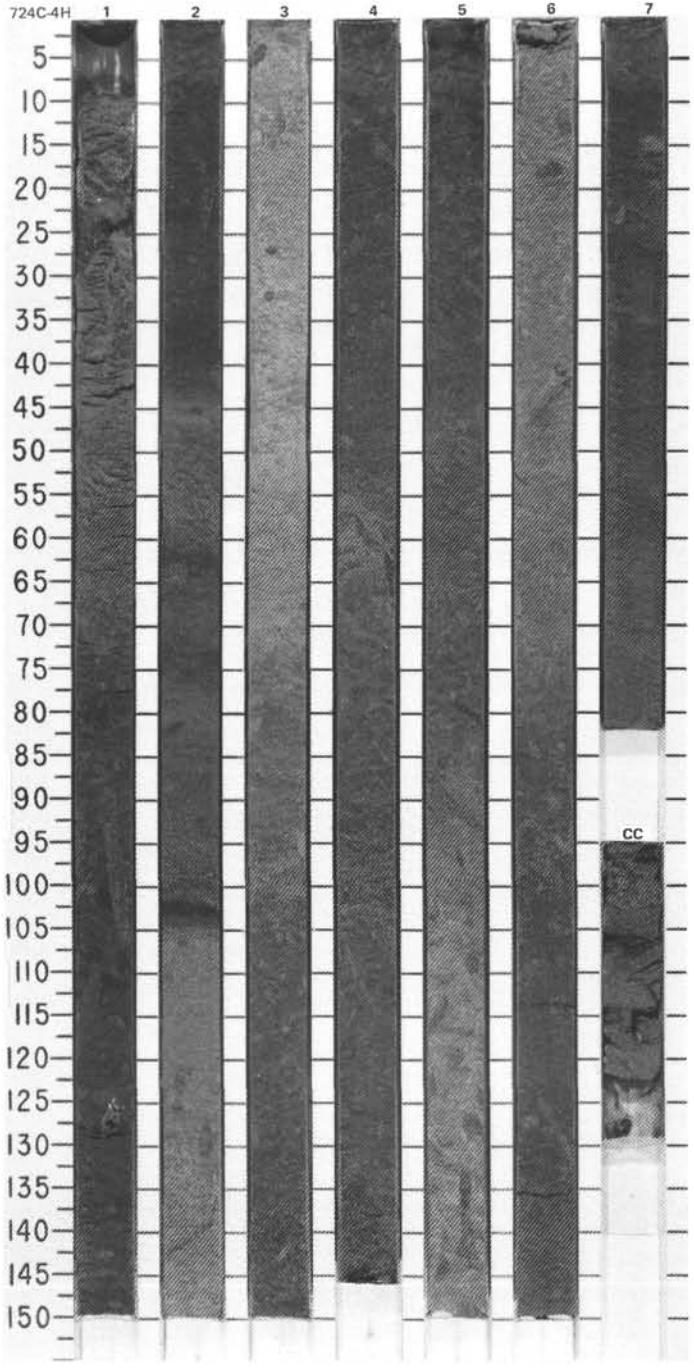
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
PLEISTOCENE	*A/G	NN20 *Gephyrocapsa oceanica*				●ϕ-37.0 γ-1.75		1 2 3 4 5 6 7 CC	0.5 1.0				IW	CALCAREOUS CLAYEY SILT

Entire core undisturbed.

Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 4/3), olive gray (5Y 5/2, 4/2), and dark olive gray (5Y 3/2). Minor to moderate burrow mottles. Contacts gradational and mottled. Millimeter-sized, indeterminate shell fragments scattered throughout. Foraminifers visible.

SMEAR SLIDE SUMMARY (%):

	1, 70 D	3, 70 D
TEXTURE:		
Sand	5	5
Silt	50	35
Clay	45	60
COMPOSITION:		
Clay	30	10
Dolomite	Tr	Tr
Foraminifers	10	10
Inorganic calcite	35	30
Nannofossils	20	40
Pellets		5
Quartz	5	5
Sponge spicules		Tr



SITE 724 HOLE C CORE 5H CORED INTERVAL 624.0-633.6 mbsl; 31.2-40.8 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	NN19 *Pseudoemiliania lacunosa*				Brunhes	●ϕ-53.5 γ-1.83		1 2 3 4 5 6 7 CC	0.5 1.0				1W

LITHOLOGIC DESCRIPTION

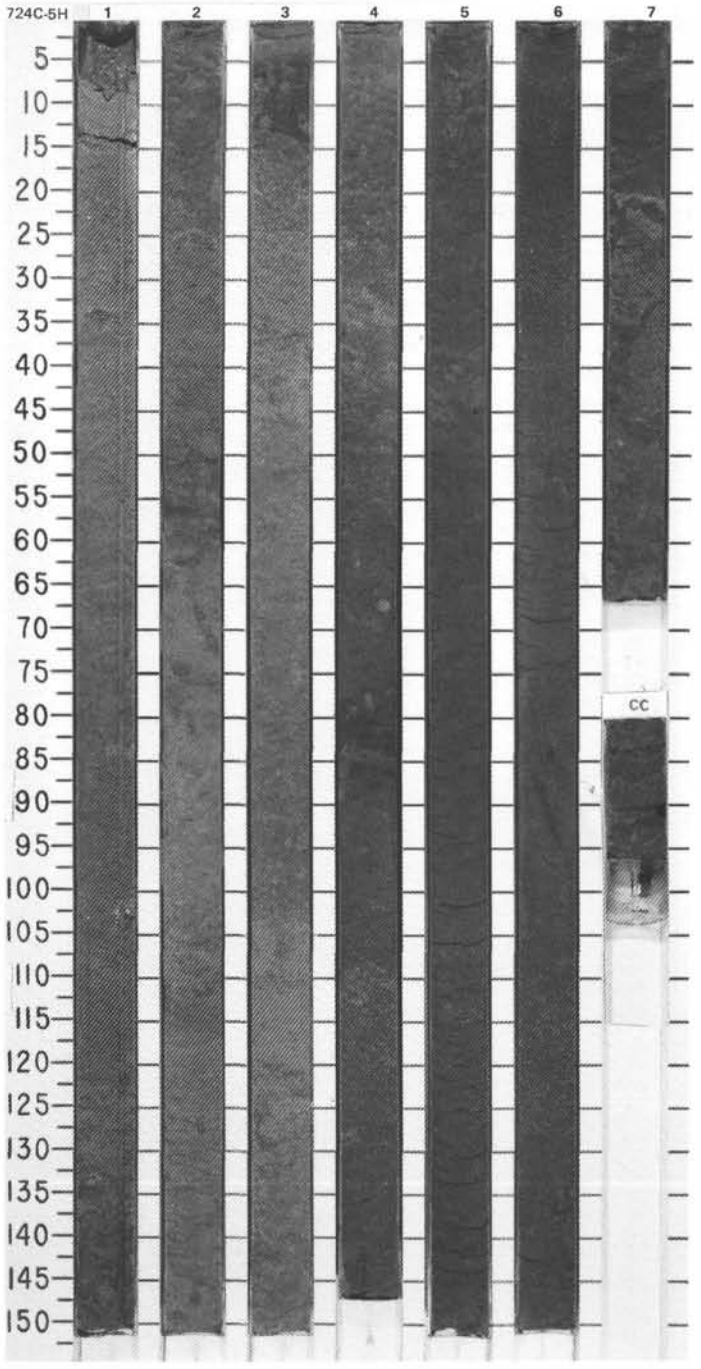
CALCAREOUS CLAYEY SILT

Entire core undisturbed.

Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 4/3), olive gray (5Y 5/2, 4/2), and dark olive gray (5Y 3/2). Minor to moderate burrow mottles. Contacts gradational and mottled. Millimeter-sized, indeterminate shell fragments scattered throughout. Foraminifers visible.

SMEAR SLIDE SUMMARY (%):

	1, 92 D	4, 49 D
TEXTURE:		
Sand	5	10
Silt	33	40
Clay	62	50
COMPOSITION:		
Access. minerals	Tr	Tr
Clay	15	20
Dolomite	Tr	
Foraminifers	20	20
Volcanic glass	Tr	
Inorganic calcite	20	20
Mica	Tr	Tr
Nannofossils	40	30
Pellets		5
Quartz	5	5



SITE 724 HOLE C CORE 6X CORED INTERVAL 633.6-643.3 mbsl; 40.8-50.5 mbsf

TIME-ROCK UNIT	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLEISTOCENE		NN19 *Pseudoemiliania lacunosa*; * A/M			Brunhes	ϕ=53.3 γ=1.80		1, 2, 3, 4, 5, 6, CC	0.5, 1.0				*

LITHOLOGIC DESCRIPTION

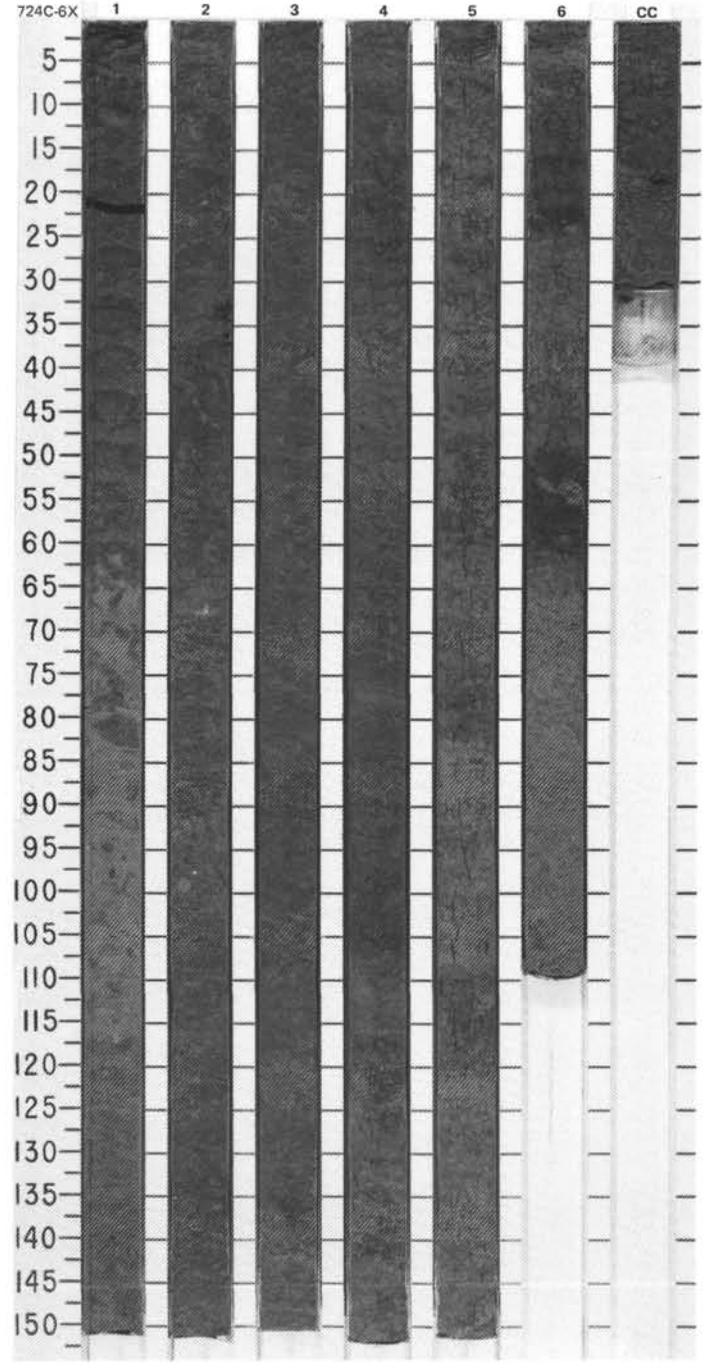
CALCAREOUS CLAYEY SILT

Entire core undisturbed.

Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 4/3), olive gray (5Y 5/2, 4/2), and dark olive gray (5Y 3/2). Minor burrow mottles throughout. Contacts gradational and mottled. Millimeter-sized, indeterminate shell fragments common. Foraminifers and pteropods visible.

SMEAR SLIDE SUMMARY (%):

	3, 92 D	5, 92 D
TEXTURE:		
Sand		10
Silt	55	45
Clay	45	45
COMPOSITION:		
Access. minerals	2	2
Clay	30	30
Foraminifers	3	3
Inorganic calcite	40	35
Nannofossils	15	15
Pellets		5
Quartz	10	10



SITE 724 HOLE C CORE 7X CORED INTERVAL 643.3-653.0 mbsl; 50.5-60.2 mbsf

TIME-ROCK UNIT: PLEISTOCENE

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

PALEOMAGNETICS: Brunhes

PHYS. PROPERTIES: ●φ ●53.3 γ 1.74

CHEMISTRY

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID 50.62

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES

LITHOLOGIC DESCRIPTION

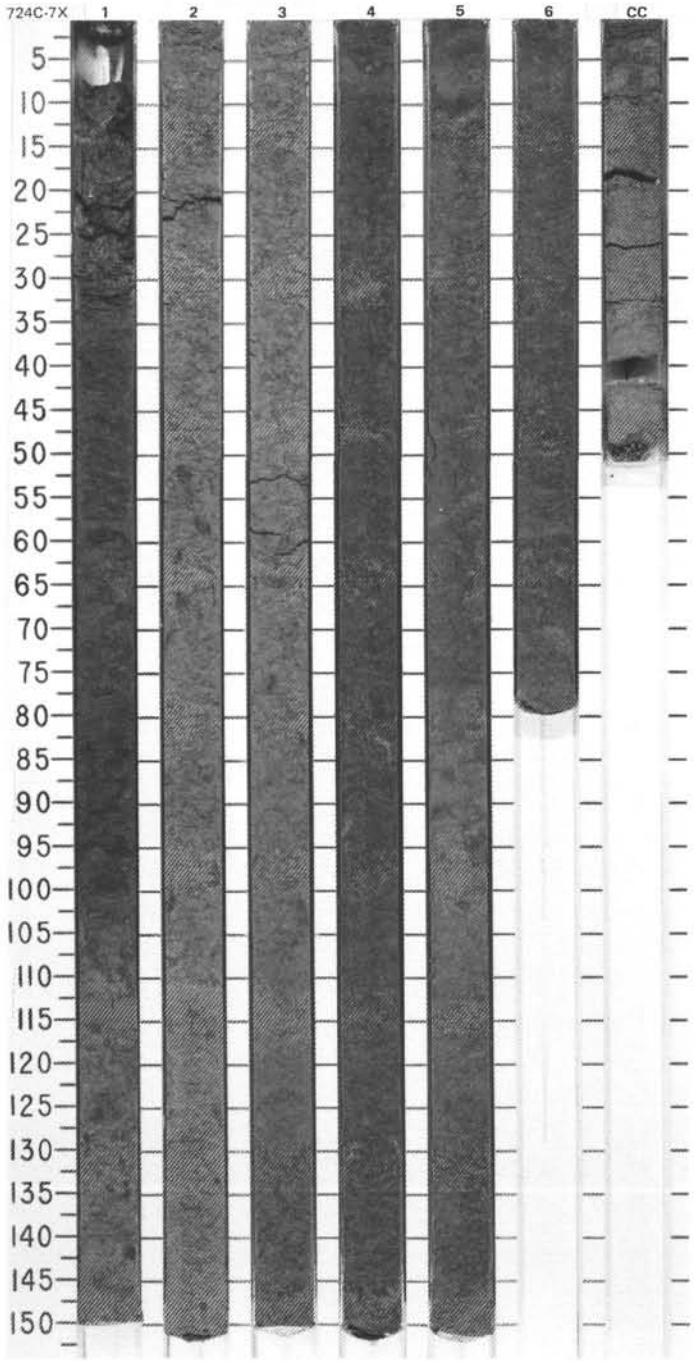
CALCAREOUS CLAYEY SILT

Entire core undisturbed.

Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 4/3, 4/4), olive gray (5Y 5/2, 4/2), and dark olive gray (5Y 3/2). Minor to moderate burrow mottling. Contacts gradational and mottled. Millimeter-sized, indeterminate shell fragments common. Foraminifers visible.

SMEAR SLIDE SUMMARY (%):

	3, 70 D	4, 70 D
TEXTURE:		
Silt	55	45
Clay	45	55
COMPOSITION:		
Access. minerals	2	3
Clay	25	30
Foraminifers	3	8
Inorganic calcite	40	25
Nannofossils	7	20
Pellets	5	4
Quartz	18	10



SITE 724 HOLE C CORE 8X CORED INTERVAL 653.0-662.6 mbsl; 60.2-69.8 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	*A/G	NN19 *Pseudoemiliania lacunosa*			O Matuyama O	●Φ=57.9 γ=1.73	● ● ●	1 2 3 4 5 6 CC	0.5 1.0	VOID 65.75			*

LITHOLOGIC DESCRIPTION

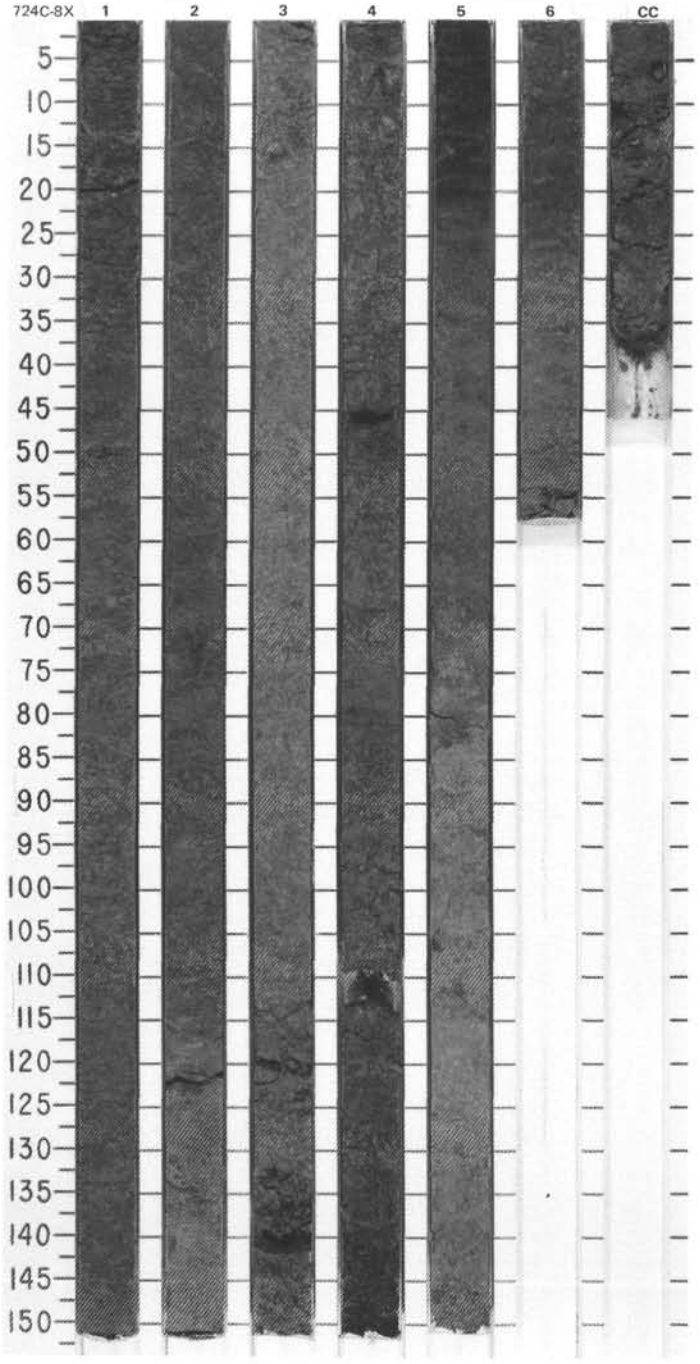
CALCAREOUS CLAYEY SILT

Section 1, 0-50 cm, and Section 3, 110-140 cm, slightly disturbed; remainder undisturbed.

Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 4/3, 4/4), olive gray (5Y 5/2, 4/2), and dark olive gray (5Y 3/2). Minor burrow mottling common. Contacts *gradational and mottled. Millimeter-sized, indeterminate shell fragments* common. Foraminifers visible.

SMEAR SLIDE SUMMARY (%):

	3, 56 D
TEXTURE:	
Silt	60
Clay	40
COMPOSITION:	
Clay	30
Foraminifers	5
Inorganic calcite	30
Nannofossils	15
Pellets	7
Quartz	13



SITE 724 HOLE C CORE 9X CORED INTERVAL 662.6-672.2 mbsl; 69.8-79.4 mbsf

TIME-ROCK UNIT: PLEISTOCENE

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

PALEOMAGNETICS: Jaramillo

PHYS. PROPERTIES: ●Φ-56.5 γ-1.82

CHEMISTRY

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID 73.23; VOID 76.37; VOID 77.22

DRILLING DISTURB.

SED. STRUCTURES: 6

SAMPLES: *

LITHOLOGIC DESCRIPTION

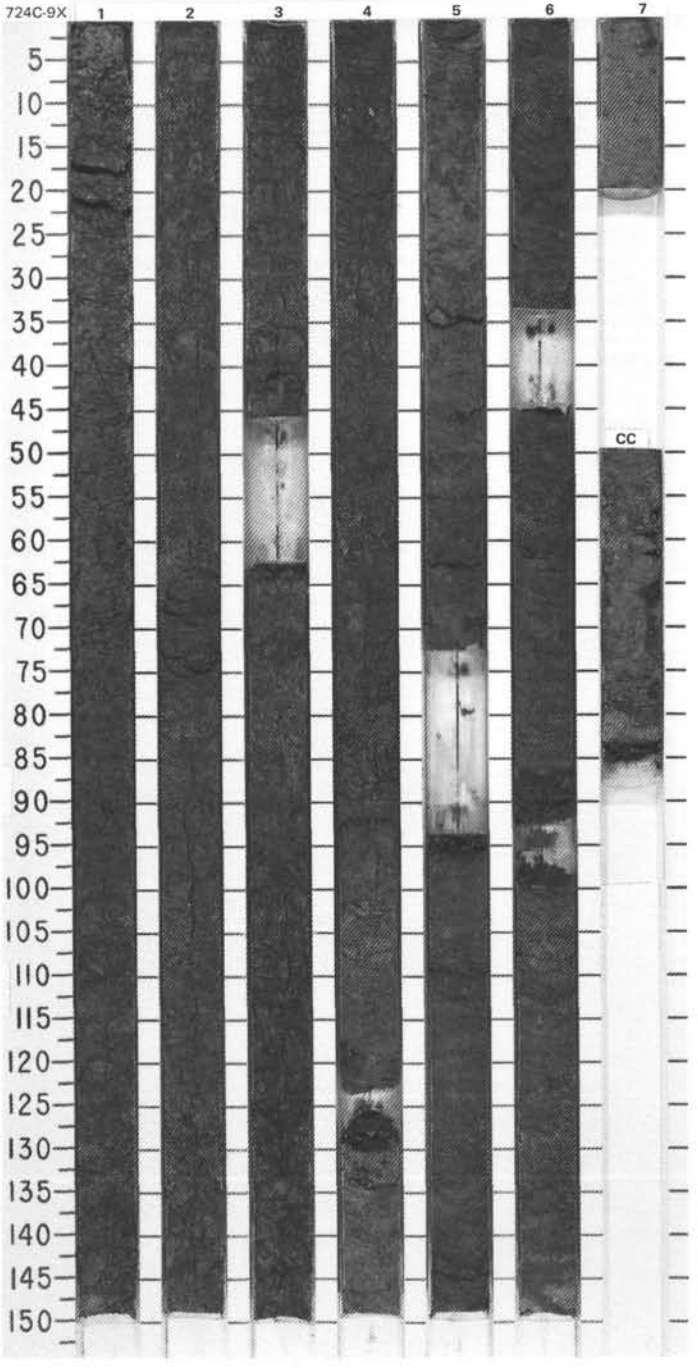
CALCAREOUS CLAYEY SILT

Entire core undisturbed. Voids caused by gas expansion.

Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 4/3), olive gray (5Y 5/2, 4/2), and dark olive gray (5Y 3/2). Minor burrow mottling throughout. Contacts gradational and mottled. Millimeter-sized, indeterminate shell fragments common. Foraminifers visible.

SMEAR SLIDE SUMMARY (%):

	3, 18 D
TEXTURE:	
Silt	50
Clay	50
COMPOSITION:	
Access. minerals	Tr
Clay	25
Foraminifers	5
Inorganic calcite	25
Mica	Tr
Nannofossils	25
Pellets	5
Quartz	15



SITE 724 HOLE C CORE 10X CORED INTERVAL 672.2-681.8 mbsl; 79.4-89.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLEISTOCENE	* A/M	NN19 *Pseudoemiliania lacunosa*			O Matuyama O	● ϕ=52.5 γ=1.83		1 2 3 4 5 CC	0.5 1.0	VOID 81.75; VOID 83.44; VOID 83.69; VOID 84.31; VOID 85.24			*

LITHOLOGIC DESCRIPTION

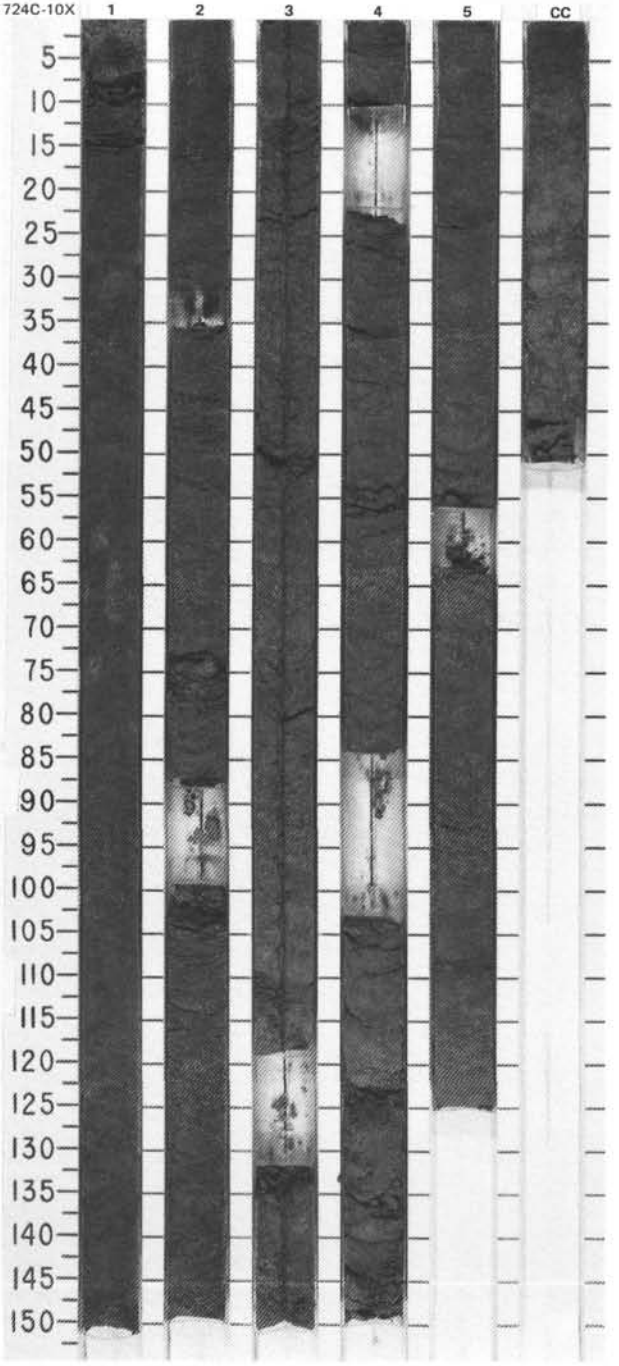
CALCAREOUS CLAYEY SILT

Entire core lightly disturbed. Voids caused by gas expansion.

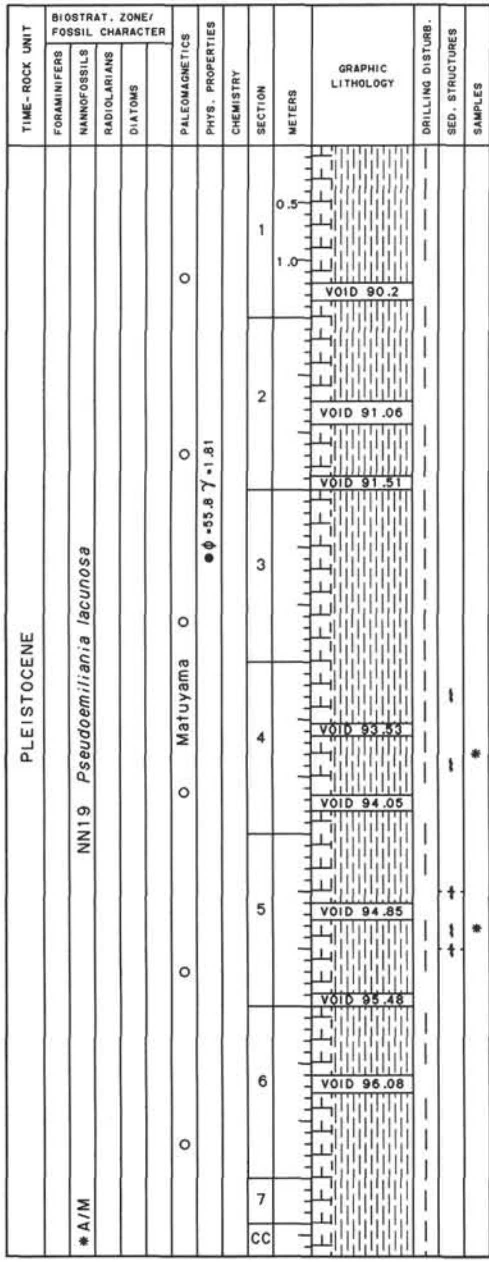
Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 4/3). Minor burrow mottling throughout. Foraminifers visible.

SMEAR SLIDE SUMMARY (%):

	4, 70 D
TEXTURE:	
Silt	50
Clay	50
COMPOSITION:	
Access. minerals	Tr
Clay	30
Dolomite	2
Foraminifers	3
Inorganic calcite	35
Nannofossils	15
Pellets	5
Quartz	10



SITE 724 HOLE C CORE 11X CORED INTERVAL 681.8-691.4 mbsl; 89.0-98.6 mbsf



LITHOLOGIC DESCRIPTION

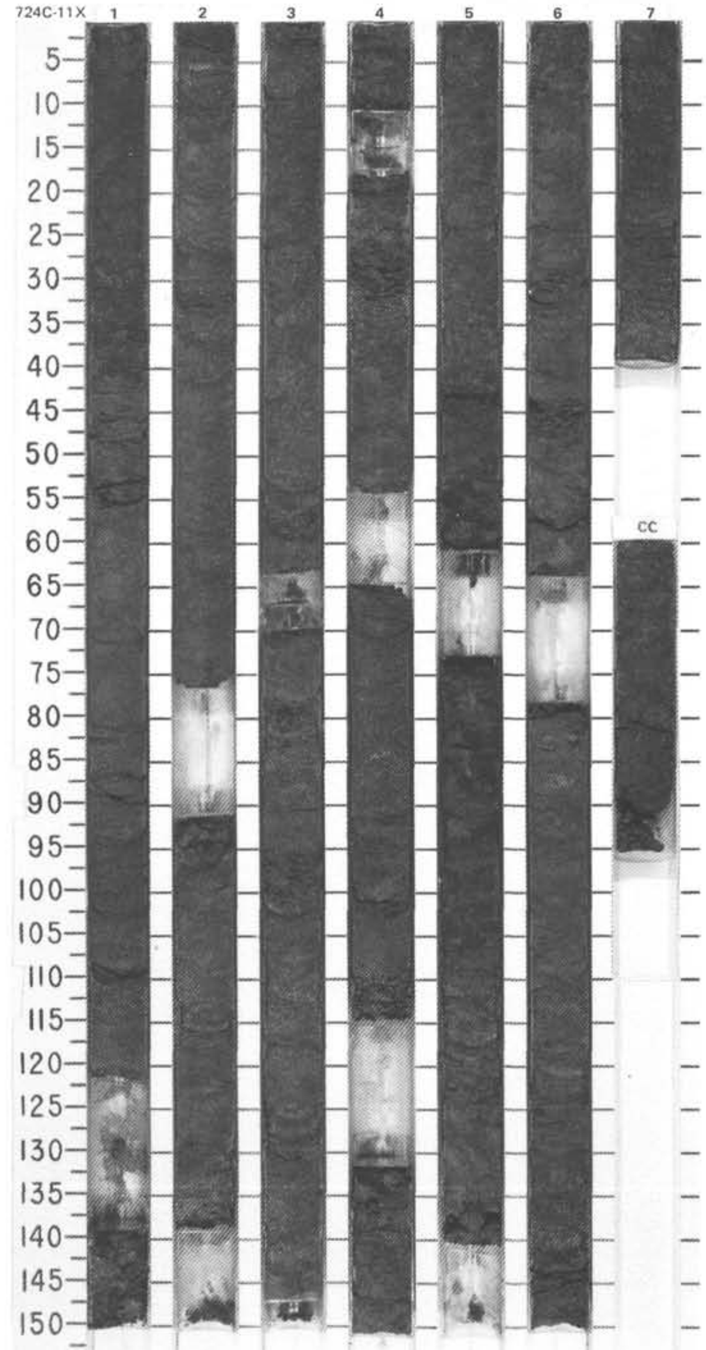
CALCAREOUS CLAYEY SILT

Entire core slightly disturbed. Voids caused by gas expansion.

Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 4/3) and very dark gray (5Y 3/1). Minor burrow mottling rare. Contacts gradational and mottled. Foraminifers visible.

SMEAR SLIDE SUMMARY (%):

	4, 80 D	5, 82 M
TEXTURE:		
Silt	55	60
Clay	45	40
COMPOSITION:		
Access. minerals	1	2
Clay	35	35
Dolomite	1	3
Foraminifers	10	3
Inorganic calcite	25	30
Mica	Tr	Tr
Nannofossils	10	3
Organic debris		7
Pellets	3	5
Quartz	15	10
Sponge spicules		1
Zircon		Tr



SITE 724 HOLE C CORE 12X CORED INTERVAL 691.4-701.1 mbsl; 98.6-108.3 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	* A/M	NN19 *Pseudoemiliania lacunosa*			O	● ϕ=50.7 γ=1.91		1	0.5	VOID 99.15			
									1.0	VOID 99.7			
								2		VOID 100.5			
					O			3		VOID 101.4			
					O	Matuyama		4		VOID 102.16			*
										VOID 103.42			
					O			5		VOID 103.62			
										VOID 104.64			
					O			6		VOID 105.04			
										VOID 105.65			
								7					
								CC					

LITHOLOGIC DESCRIPTION

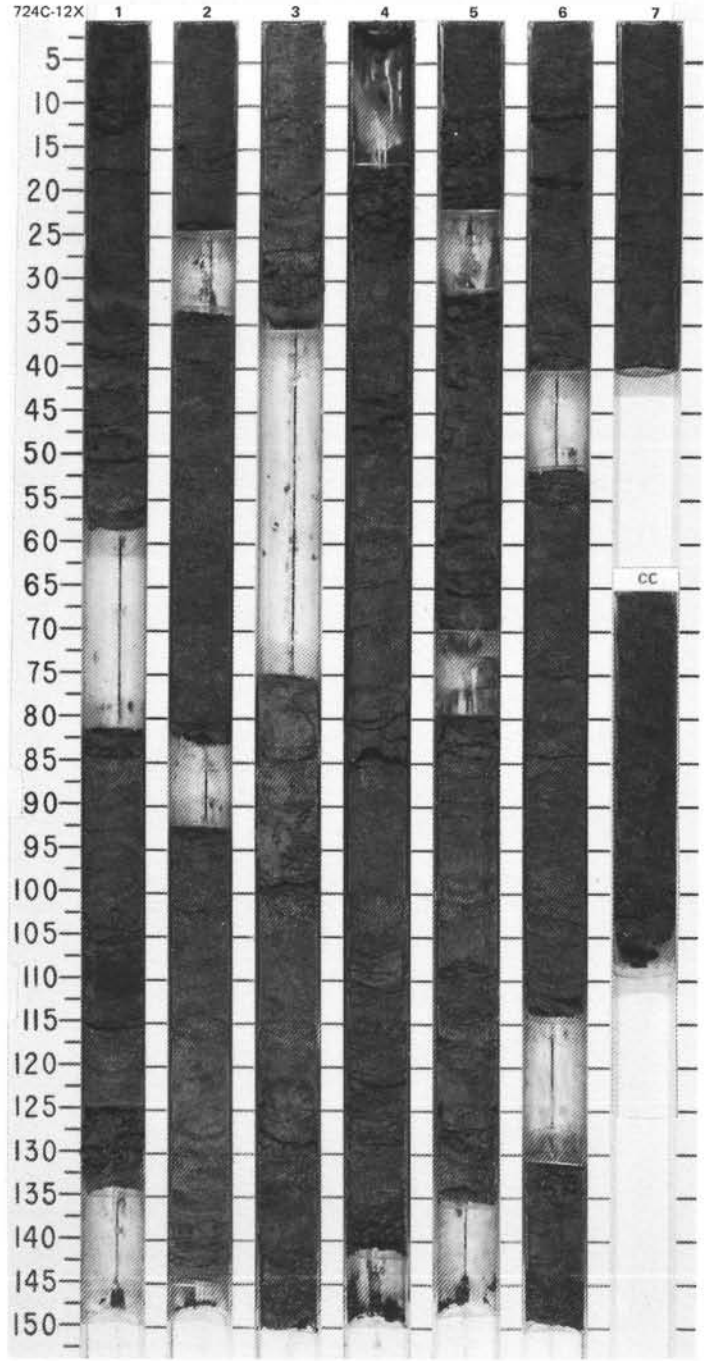
CALCAREOUS CLAYEY SILT

Entire core slightly disturbed. Voids caused by gas expansion.

Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 4/3), olive gray (5Y 4/2), dark olive gray (5Y 3/2), and very dark gray (5Y 3/1). Minor burrow mottling common. Foraminifers visible.

SMEAR SLIDE SUMMARY (%):

	4, 94 D
TEXTURE:	
Silt	30
Clay	70
COMPOSITION:	
Access. minerals	1
Clay	45
Dolomite	2
Foraminifers	7
Inorganic calcite	20
Nannofossils	15
Pellets	5
Quartz	5



SITE 724 HOLE C CORE 13X CORED INTERVAL 701.1-710.6 mbsl; 108.3-117.8 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	* A/M	NN19 *Pseudoemiliania lacunosa*			Matuyama	●φ-57.1 γ-1.75		1, 2, 3, 4, 5, 6, 7, CC	0.5, 1.0	VOID 109.12; VOID 109.33; VOID 110.33; VOID 110.58; VOID 110.78; VOID 111.76; VOID 113.06; VOID 113.71; VOID 114.26; VOID 115.47			*

LITHOLOGIC DESCRIPTION

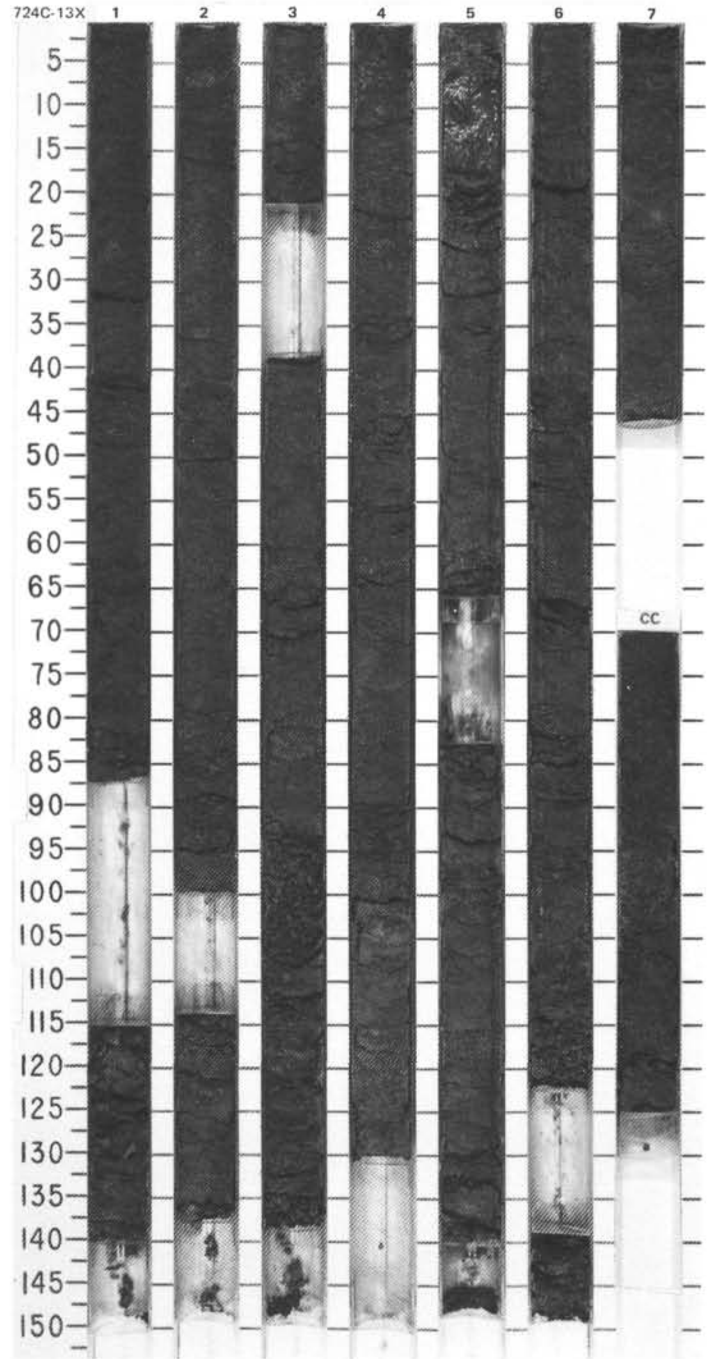
CALCAREOUS CLAYEY SILT

Section 5, 0-20 cm, soupy; Section 3, 80-135 cm, and Section 6, 50-130 cm, moderately disturbed; remainder slightly disturbed. Voids caused by gas expansion.

Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 4/3) and dark olive gray (5Y 3/2). Minor burrow mottling rare. Contacts gradational and mottled. Foraminifers visible.

SMEAR SLIDE SUMMARY (%):

	4, 80
	D
TEXTURE:	
Silt	60
Clay	40
COMPOSITION:	
Clay	19
Dolomite	5
Foraminifers	9
Volcanic glass	Tr
Inorganic calcite	28
Nannofossils	28
Organic debris	5
Quartz	5



SITE 724 HOLE C CORE 14X CORED INTERVAL 710.6-720.2 mbsl; 117.8-127.4 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	* A/M	NN19 *Pseudoemiliania lacunosa*			O Matuyama O	●ϕ=54.3 γ=1.78		1	0.5	VOID 117.94			
									1.0	VOID 118.12			
										VOID 118.57			
								2		VOID 118.92			
										VOID 119.22			
										VOID 119.47			
								3		VOID 119.55			*
										VOID 120.14			
								4		VOID 120.34			
										VOID 120.88			
										VOID 121.2			
								5		VOID 121.32			
										VOID 121.86			
								6					

LITHOLOGIC DESCRIPTION

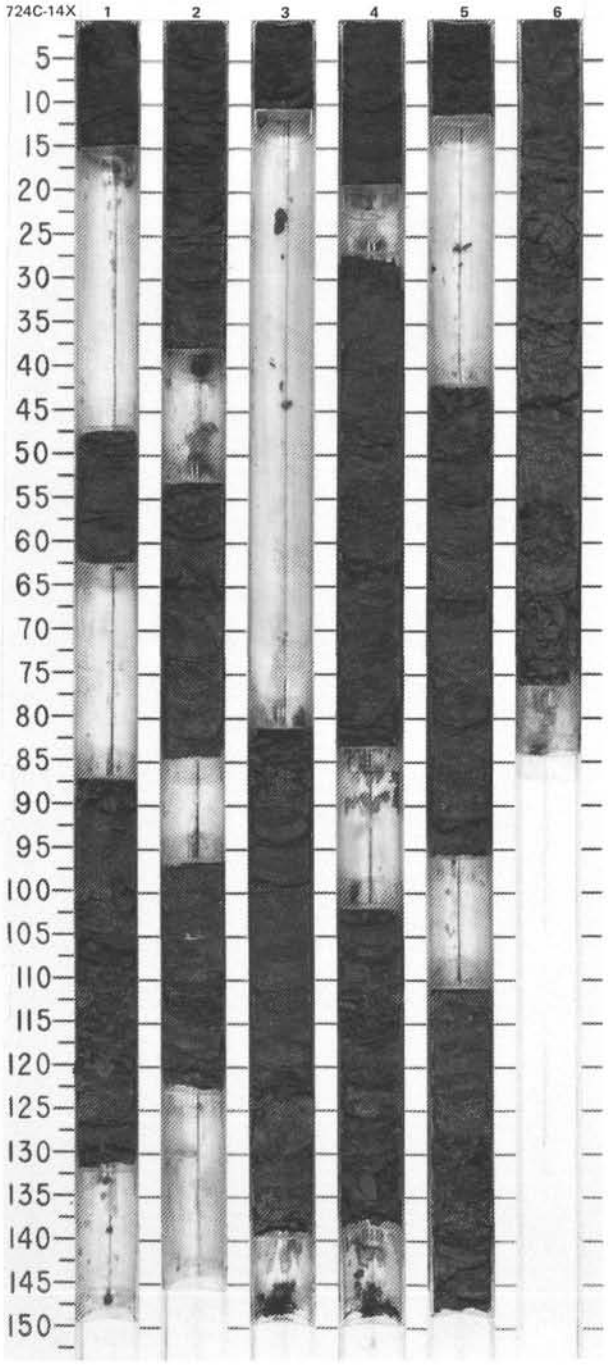
CALCAREOUS CLAYEY SILT

Section 3, 0-9, 81-90, and 135-140 cm, very disturbed; Section 3, 90-135 cm, Section 4, 0-150 cm, and Section 6, 0-83 cm, moderately disturbed; remainder slightly disturbed. Voids caused by gas expansion.

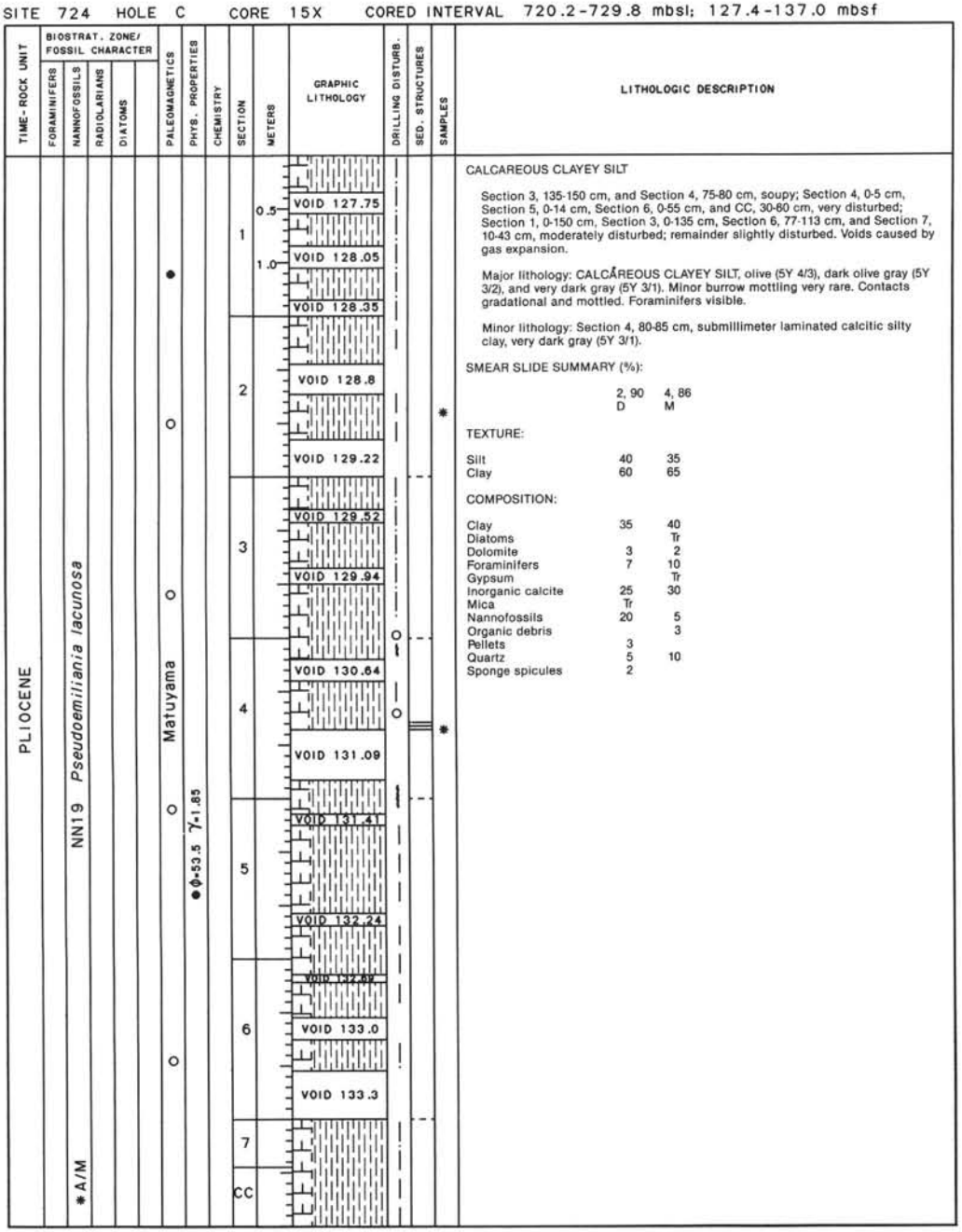
Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 4/3), olive gray (5Y 4/2), and dark olive gray (5Y 3/2). Contacts gradational and mottled. Foraminifers visible.

SMEAR SLIDE SUMMARY (%):

	3, 100 D
TEXTURE:	
Silt	60
Clay	40
COMPOSITION:	
Access. minerals	2
Clay	30
Dolomite	2
Foraminifers	3
Inorganic calcite	30
Nannofossils	10
Pellets	3
Quartz	15
Sponge spicules	3



SITE 724 HOLE C CORE 15X CORED INTERVAL 720.2-729.8 mbsl; 127.4-137.0 mbsf



LITHOLOGIC DESCRIPTION

CALCAREOUS CLAYEY SILT

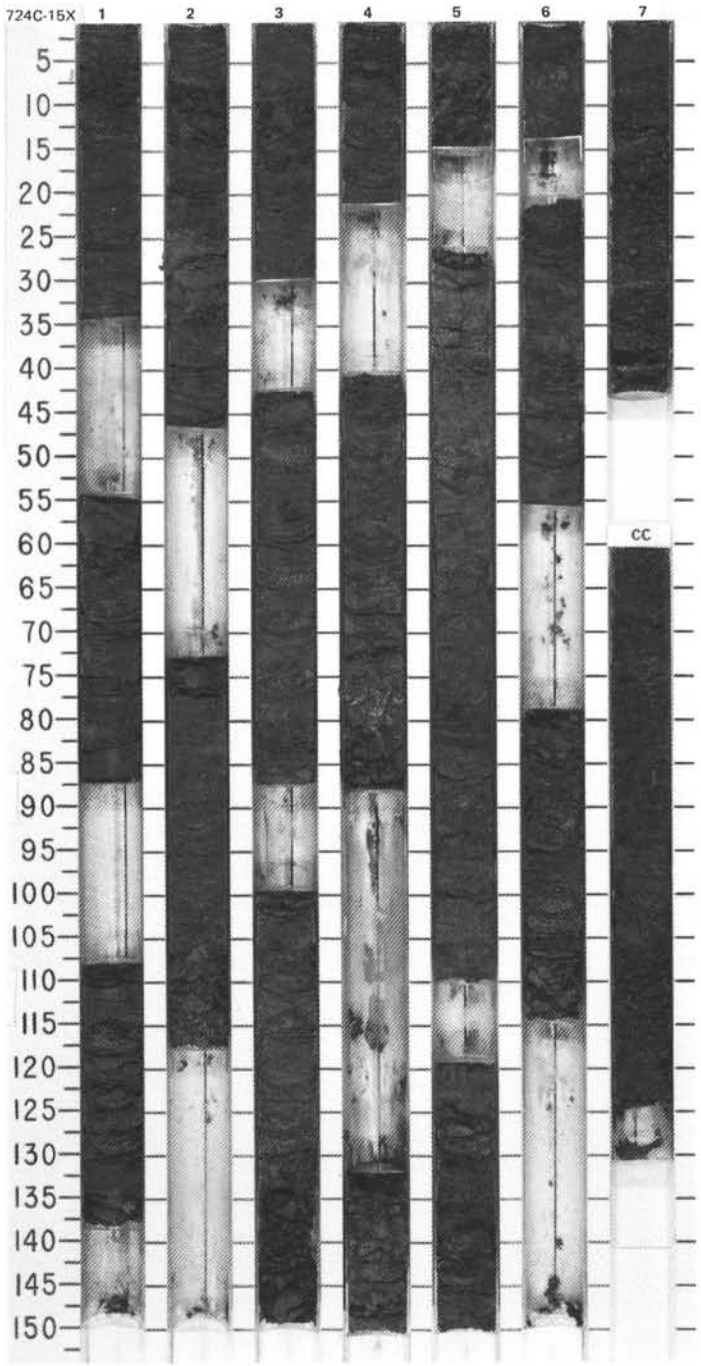
Section 3, 135-150 cm, and Section 4, 75-80 cm, soupy; Section 4, 0-5 cm, Section 5, 0-14 cm, Section 6, 0-55 cm, and CC, 30-60 cm, very disturbed; Section 1, 0-150 cm, Section 3, 0-135 cm, Section 6, 77-113 cm, and Section 7, 10-43 cm, moderately disturbed; remainder slightly disturbed. Voids caused by gas expansion.

Major lithology: CALCÁREOUS CLAYEY SILT, olive (5Y 4/3), dark olive gray (5Y 3/2), and very dark gray (5Y 3/1). Minor burrow mottling very rare. Contacts gradational and mottled. Foraminifers visible.

Minor lithology: Section 4, 80-85 cm, submillimeter laminated calcitic silty clay, very dark gray (5Y 3/1).

SMEAR SLIDE SUMMARY (%):

	2, 90 D	4, 86 M
TEXTURE:		
Silt	40	35
Clay	60	65
COMPOSITION:		
Clay	35	40
Diatoms		Tr
Dolomite	3	2
Foraminifers	7	10
Gypsum		Tr
Inorganic calcite	25	30
Mica	Tr	
Nannofossils	20	5
Organic debris		3
Pellets	3	
Quartz	5	10
Sponge spicules	2	



SITE 724 HOLE C CORE 16X CORED INTERVAL 729.8-739.4 mbsl; 137.0-146.6 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
PLIOCENE		NN19 *Pseudoemiliania lacunosa*			Olduvai	●φ=56.8 γ=1.71		1, 2, 3, 4, 5, 6, 7, CC	0.5, 1.0	VOID 140.3; VOID 141.15; VOID 334.15; VOID 334.3			*
		* A/M											

LITHOLOGIC DESCRIPTION

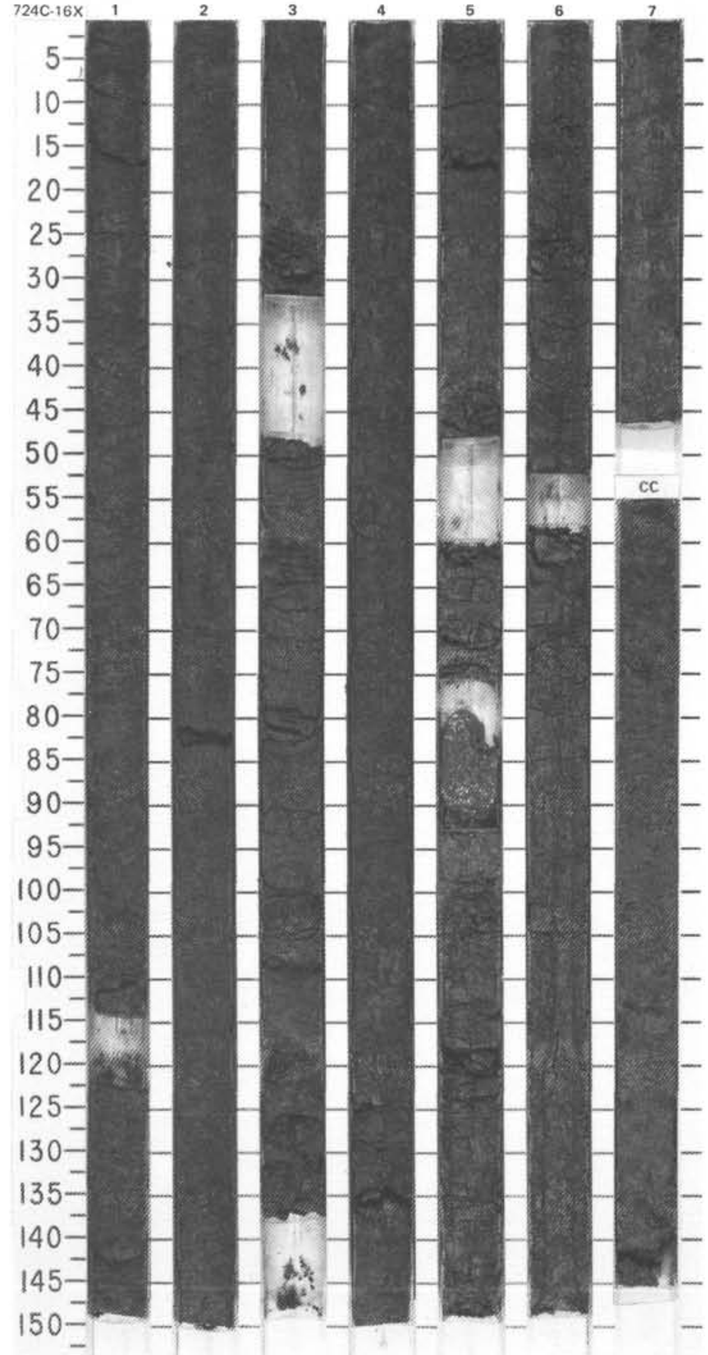
CALCAREOUS CLAYEY SILT

Section 3, 0-150 cm, moderately disturbed; remainder slightly disturbed. Voids caused by gas expansion.

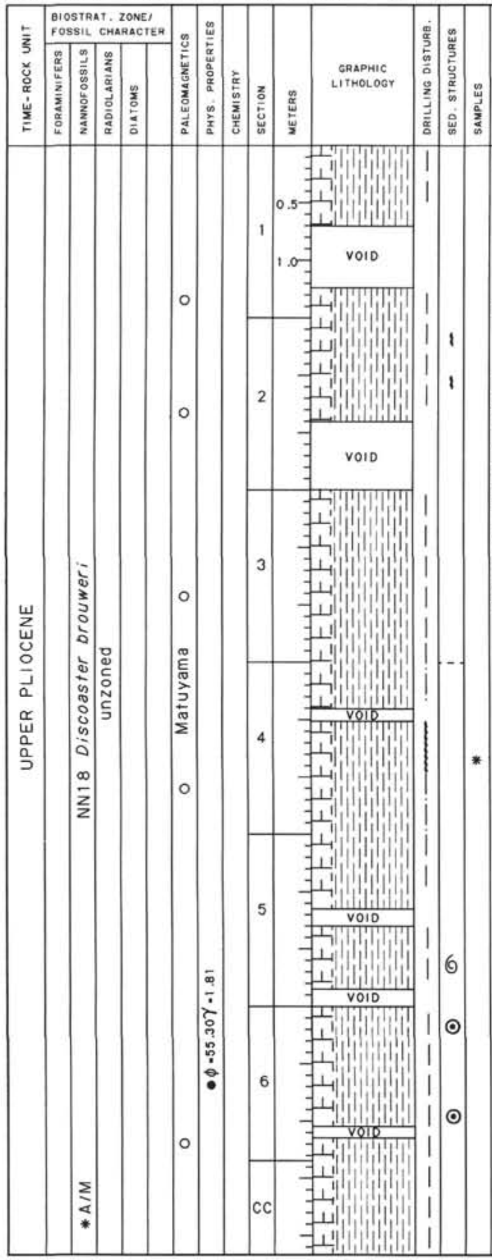
Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 4/3), olive gray (5Y 4/2), and dark olive gray (5Y 3/2). Minor burrow mottling very rare. Contacts gradational and mottled. Foraminifers visible.

SMEAR SLIDE SUMMARY (%):

	3, 90
	D
TEXTURE:	
Silt	40
Clay	60
COMPOSITION:	
Clay	30
Dolomite	2
Foraminifers	7
Gypsum	Tr
Hornblende	Tr
Inorganic calcite	35
Mica	Tr
Nannofossils	15
Pyrite	1
Quartz	10
Sponge spicules	Tr



SITE 724 HOLE C CORE 17X CORED INTERVAL 739.4-749.1 mbsl; 146.6-156.3 mbsf



LITHOLOGIC DESCRIPTION

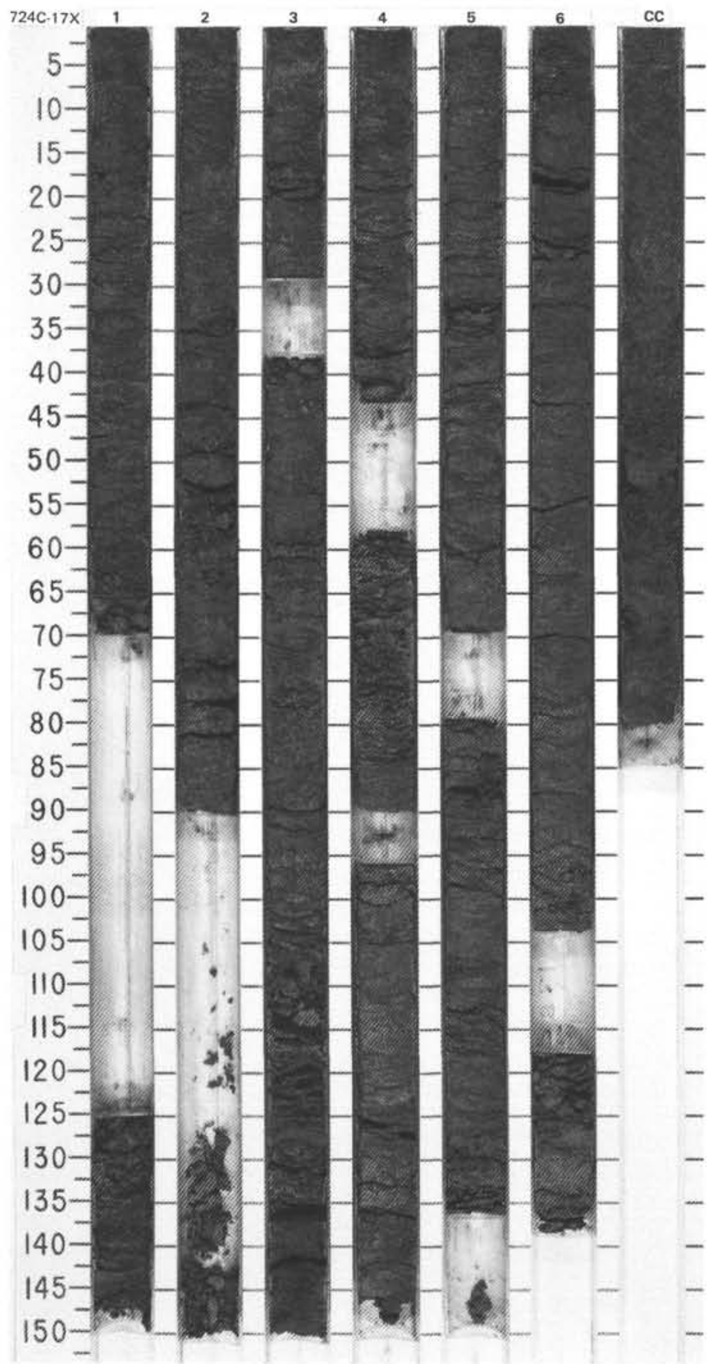
CALCAREOUS CLAYEY SILT

Section 4, 56-90 cm, very disturbed; Section 4, 0-43 and 96-150 cm, moderately disturbed; remainder slightly disturbed. Voids caused by gas expansion.

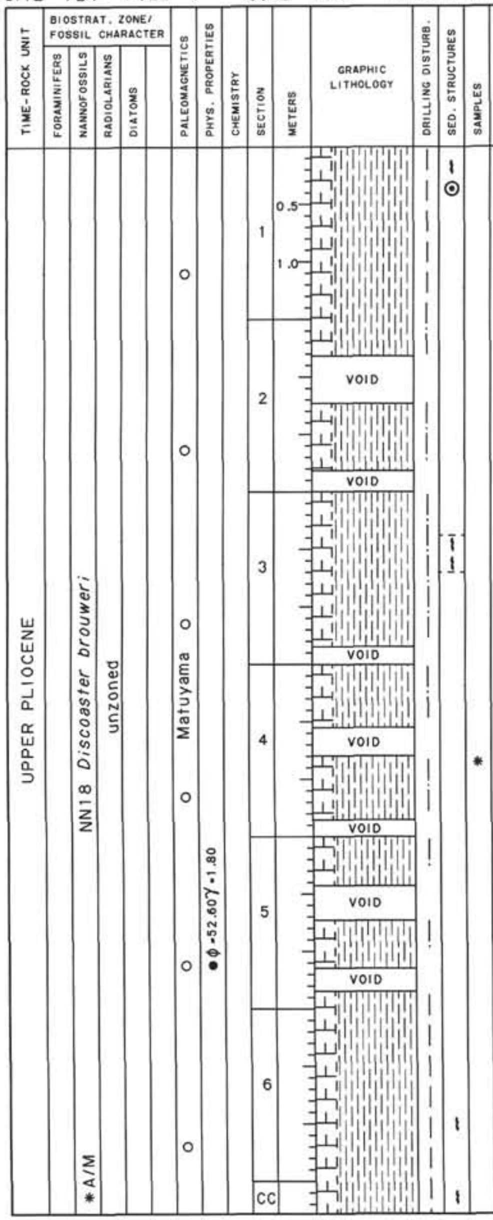
Major lithology: CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2) and dark olive gray (5Y 3/2). Minor burrow mottling very rare. Contacts gradational and mottled. Foraminifers visible. Section 6, 6 and 97 cm, black (5Y 2.5/1) phosphatic nodules present. Section 5, 109 cm, fish vertebra present.

SMEAR SLIDE SUMMARY (%):

	4, 86 D
TEXTURE:	
Silt	40
Clay	60
COMPOSITION:	
Clay	30
Dolomite	4
Foraminifers	10
Hornblende	Tr
Inorganic calcite	30
Mica	2
Nannofossils	10
Pellets	5
Quartz	7
Silicoflagellates	2



SITE 724 HOLE C CORE 18X CORED INTERVAL 749.1-758.7 mbsl; 156.3-165.9 mbsf



LITHOLOGIC DESCRIPTION

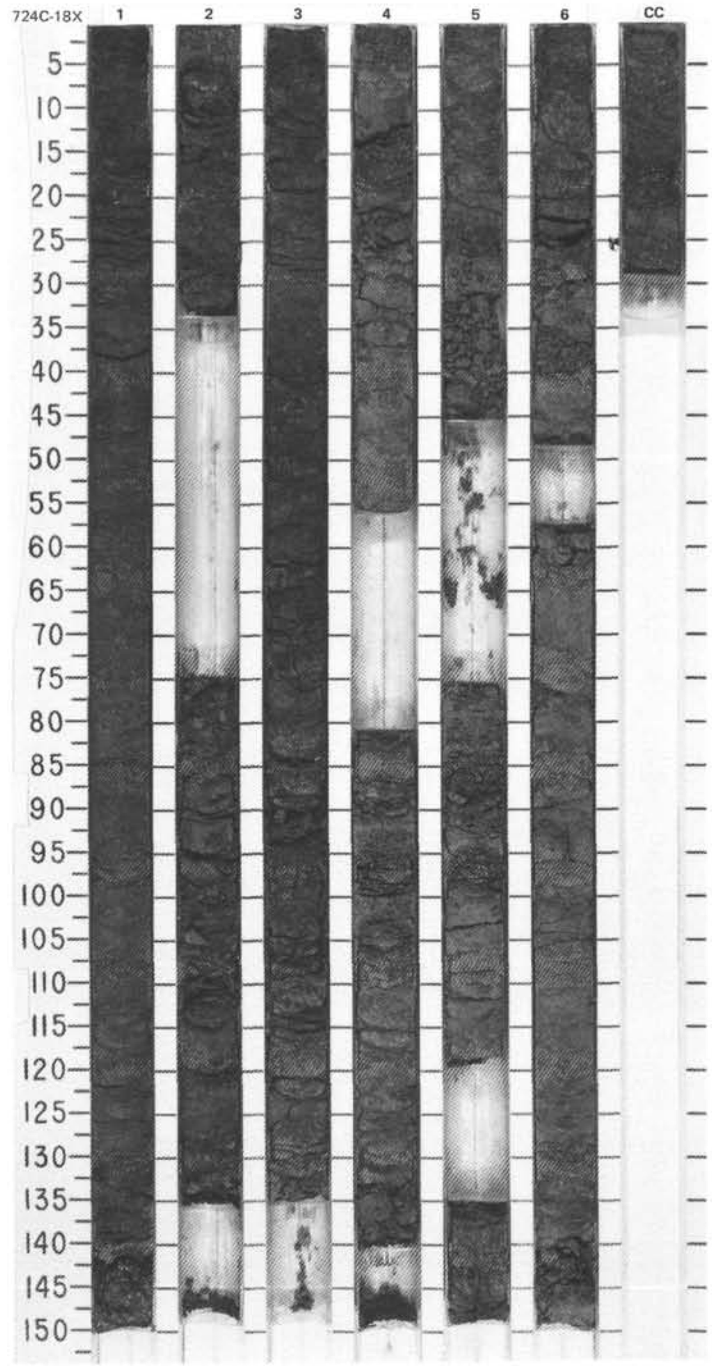
CALCAREOUS CLAYEY SILT

Sections 2-5 moderately disturbed; remainder slightly disturbed. Voids caused by gas expansion.

Major lithology: CALCAREOUS CLAYEY SILT, light gray (5Y 7/1), olive (5Y 4/3), olive gray (5Y 4/2), and dark olive gray (5Y 3/2). Minor burrow mottling very rare. Contacts gradational and mottled. Foraminifers visible. Section 1, 52 cm, black (5Y 2.5/1) phosphatic nodule present.

SMEAR SLIDE SUMMARY (%):

	4, 85 D
TEXTURE:	
Silt	30
Clay	70
COMPOSITION:	
Clay	28
Dolomite	4
Foraminifers	3
Inorganic calcite	20
Mica	Tr
Nannofossils	40
Quartz	5



SITE 724 HOLE C CORE 19X CORED INTERVAL 758.7-768.3 mbsl; 165.9-175.5 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/M-P	NN18		O	●ϕ-54.6 γ-1.77		1	0.5				*
									1.0	VOID 166.55			
					O			2		VOID 168.07			
								CC					

Discoaster brouweri

LITHOLOGIC DESCRIPTION

CALCAREOUS CLAYEY SILT

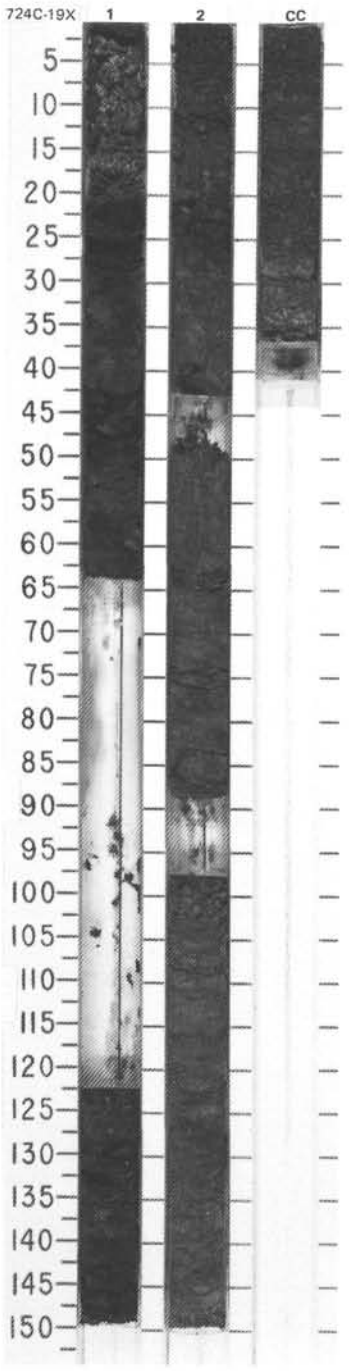
CC, 0-35 cm, moderately disturbed; remainder slightly disturbed. Voids caused by gas expansion.

Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 4/3), dark olive gray (5Y 3/2), and black (5Y 2.5/2). Minor burrow mottling rare. Contacts gradational and mottled. Foraminifers visible.

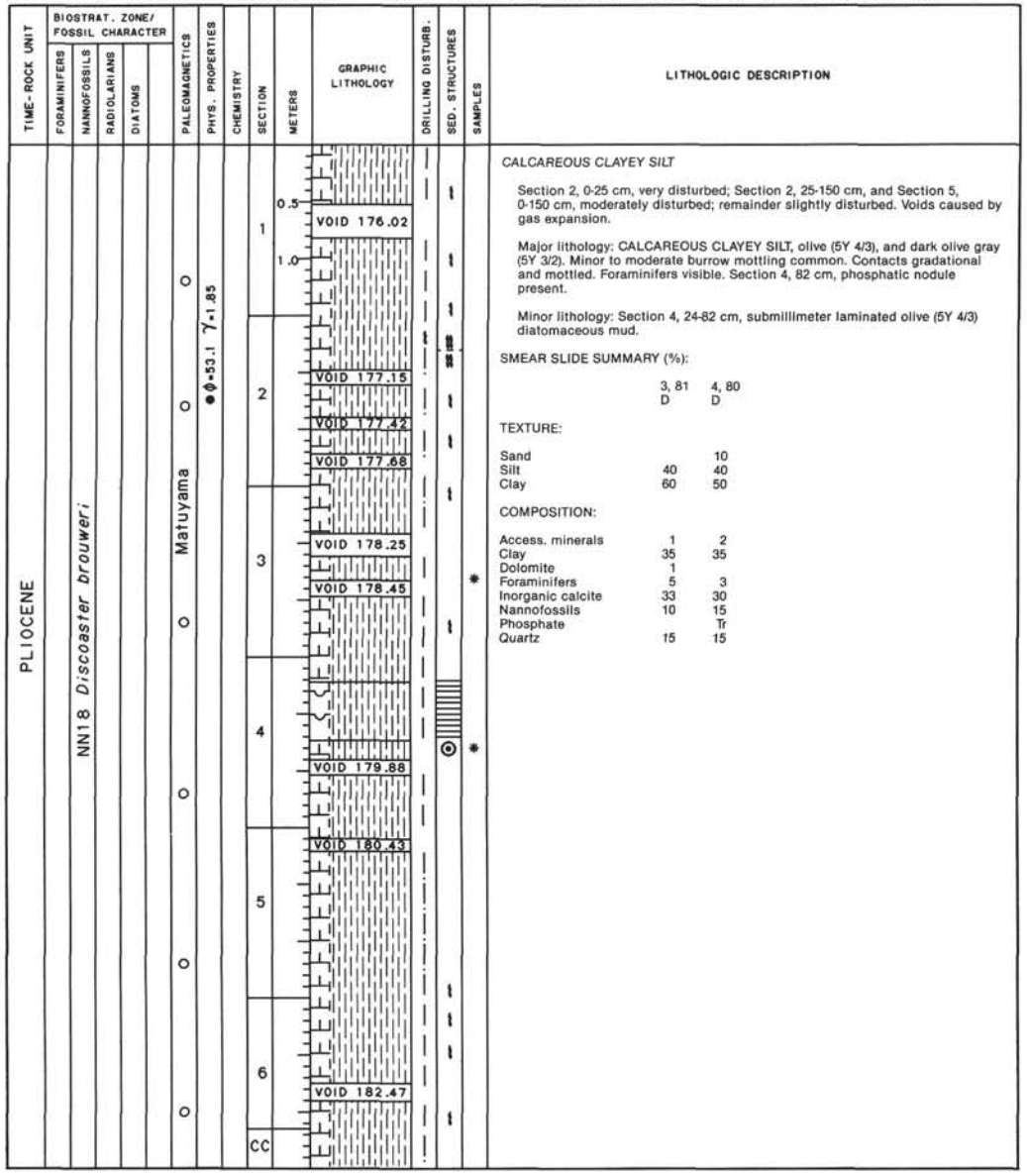
Minor lithology: Section 1, 35-45 cm, black (5Y 2.5/2) diatomaceous mud.

SMEAR SLIDE SUMMARY (%):

	1, 125 D
TEXTURE:	
Silt	30
Clay	70
COMPOSITION:	
Access. minerals	Tr
Clay	50
Dolomite	1
Foraminifers	2
Gypsum	Tr
Inorganic calcite	8
Nannofossils	5
Pellets	2
Quartz	30
Radiolarians	1
Sponge spicules	1



SITE 724 HOLE C CORE 20X CORED INTERVAL 768.3-778.0 mbsl; 175.5-185.2 mbsf



CALCAREOUS CLAYEY SILT

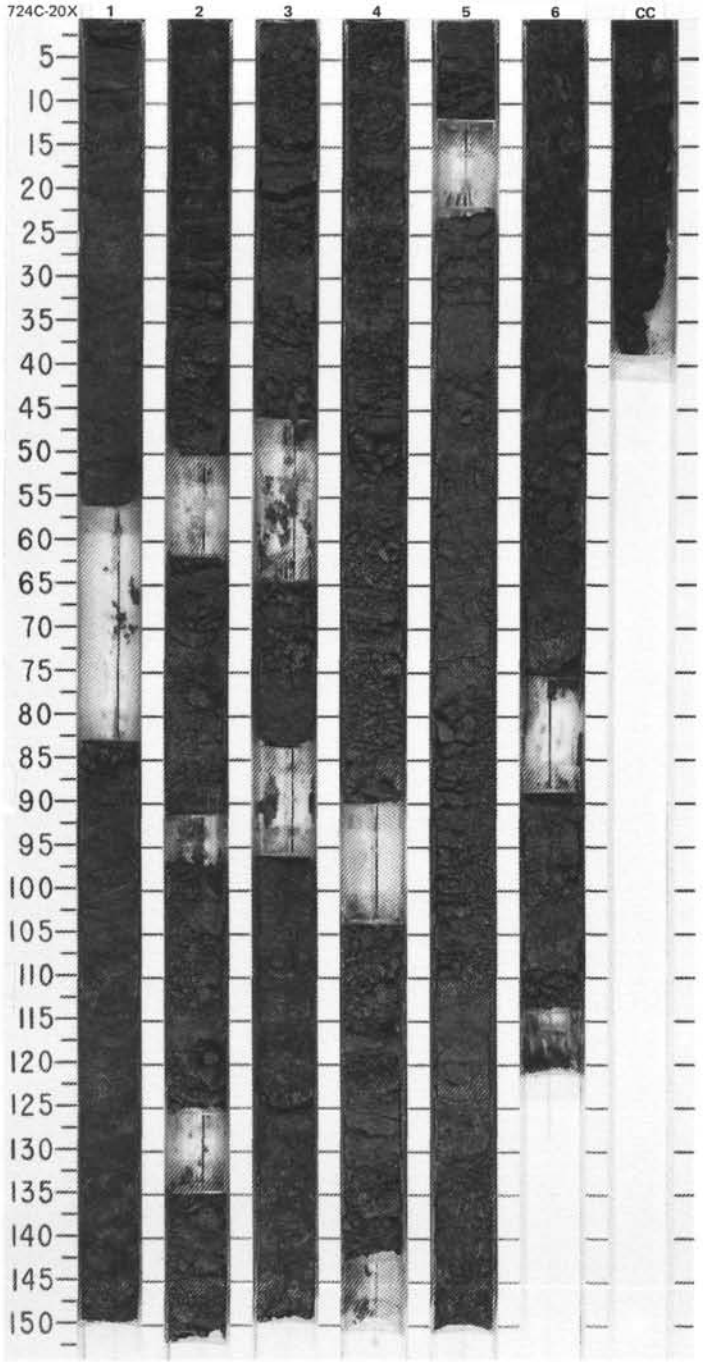
Section 2, 0-25 cm, very disturbed; Section 2, 25-150 cm, and Section 5, 0-150 cm, moderately disturbed; remainder slightly disturbed. Voids caused by gas expansion.

Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 4/3), and dark olive gray (5Y 3/2). Minor to moderate burrow mottling common. Contacts gradational and mottled. Foraminifers visible. Section 4, 82 cm, phosphatic nodule present.

Minor lithology: Section 4, 24-82 cm, submillimeter laminated olive (5Y 4/3) diatomaceous mud.

SMEAR SLIDE SUMMARY (%):

	3, 81 D	4, 80 D
TEXTURE:		
Sand		10
Silt	40	40
Clay	60	50
COMPOSITION:		
Access. minerals	1	2
Clay	35	35
Dolomite	1	
Foraminifers	5	3
Inorganic calcite	33	30
Nannofossils	10	15
Phosphate		Tr
Quartz	15	15



SITE 724 HOLE C CORE 21X CORED INTERVAL 778.0-787.6 mbsl; 185.2-194.8 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
PLIOCENE	*C/M -P	NN18 *Discoaster brouweri*			Gauss	●Φ-60.4 γ-1.61		1	0.5				*
									1.0				
								2		VOID 187.52			
								3		VOID 187.97			**
								4					
								CC					

LITHOLOGIC DESCRIPTION

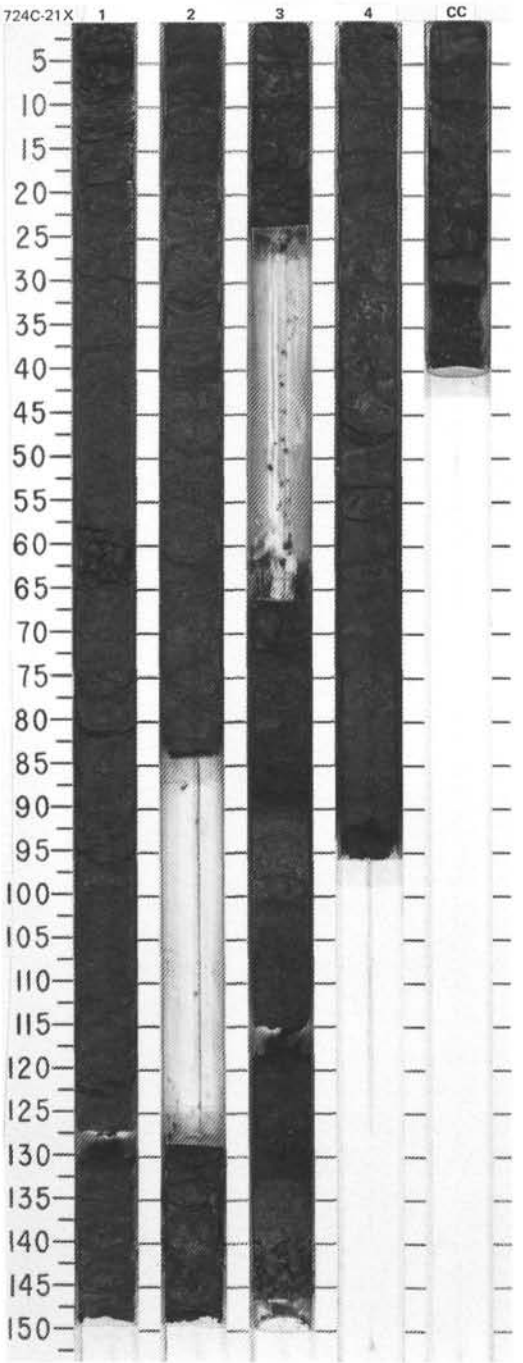
CALCAREOUS CLAYEY SILT

Entire core slightly disturbed. Voids caused by gas expansion.

Major lithology: CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2) and dark olive gray (5Y 3/2). Minor burrow mottling common. Contacts gradational and mottled. Foraminifers visible.

SMEAR SLIDE SUMMARY (%):

	1, 48 D	3, 130 D	3, 138 D
TEXTURE:			
Sand	5	5	15
Silt	50	45	30
Clay	45	50	55
COMPOSITION:			
Access. minerals	2	2	2
Clay	35	45	25
Dolomite			Tr
Feldspar		5	
Foraminifers	2		5
Glauconite	Tr	Tr	
Inorganic calcite	30	8	23
Mica	1	Tr	
Nannofossils	10		30
Organic debris	5		
Phosphate		Tr	
Quartz	15	40	15
Sponge spicules		Tr	Tr



SITE 724 HOLE C CORE 22X CORED INTERVAL 787.6-797.3 mbsl; 194.8-204.5 mbsf

TIME-ROCK UNIT: PLIOCENE

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

PALEOMAGNETICS: Gauss

PHYS. PROPERTIES: ●ϕ=57.4 γ=1.68; ●ϕ=59.0 γ=1.65

CHEMISTRY

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

VOID 195.15
VOID 199.85
VOID 200.15
VOID 200.28
VOID 200.98
VOID 201.23

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES

LITHOLOGIC DESCRIPTION

CALCAREOUS CLAYEY SILT

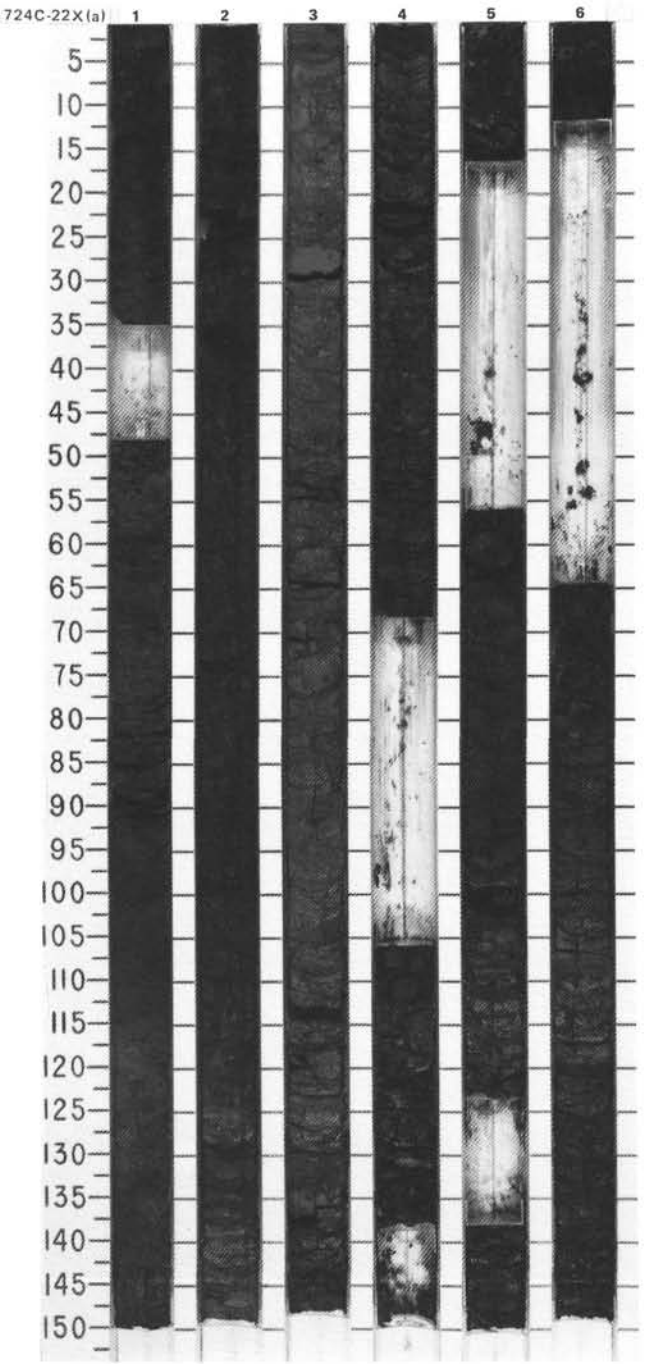
Section 4, 100-140 cm, very disturbed; remainder slightly disturbed. Voids caused by gas expansion.

Major lithology: CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2), dark olive gray (5Y 3/2), and black (5Y 2.5/2). Minor burrow mottling rare. Contacts gradational and mottled.

Minor lithology: Section 2, 123-150 cm, Section 5, 100-140 cm, Section 6, 102-119 cm, and CC, 22-41 cm, centimeter-to millimeter-scale laminated diatomaceous mud, diatomaceous marly nannofossil ooze and diatom ooze, olive (5Y 4/3), olive gray (5Y 4/2), and dark olive gray (5Y 3/2).

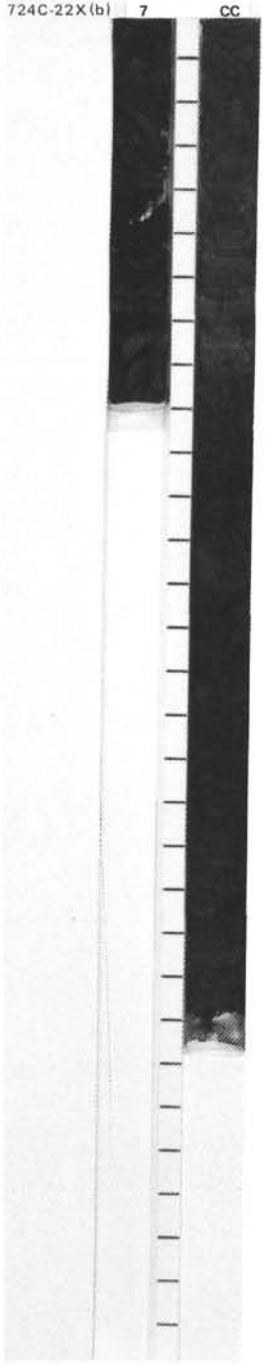
SMEAR SLIDE SUMMARY (%):

	2, 85 D	3, 15 D
TEXTURE:		
Sand	10	5
Silt	50	40
Clay	40	55
COMPOSITION:		
Access. minerals	3	2
Clay	40	25
Diatoms	Tr	15
Feldspar	5	
Foraminifers		3
Glauconite	Tr	
Inorganic calcite	12	20
Nannofossils	Tr	30
Organic debris	5	
Phosphate	Tr	
Quartz	35	5
Radiolarians	Tr	Tr
Sponge spicules	Tr	Tr



SITE 724 HOLE C CORE 22X CORED INTERVAL 787.6-797.3 mbsl; 194.8-204.5 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
								7						(cont.)
								CC						



SITE 724 HOLE C CORE 23X CORED INTERVAL 797.3-806.9 mbsl; 204.5-214.1 mbsf

TIME-ROCK UNIT: PLIOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS *A/M; NANNOFOSSILS NN16 *Discoaster surculus* - NN17 *Discoaster pentaradiatus*; RADIOLARIANS; DIATOMS

PALEOMAGNETICS: Gauss

PHYS. PROPERTIES: ●ϕ=59.8 γ=1.65

CHEMISTRY

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY: VOID 206.38; VOID 207.28; VOID 208.37; VOID 209.75; VOID 209.95; VOID 210.44

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: *

LITHOLOGIC DESCRIPTION

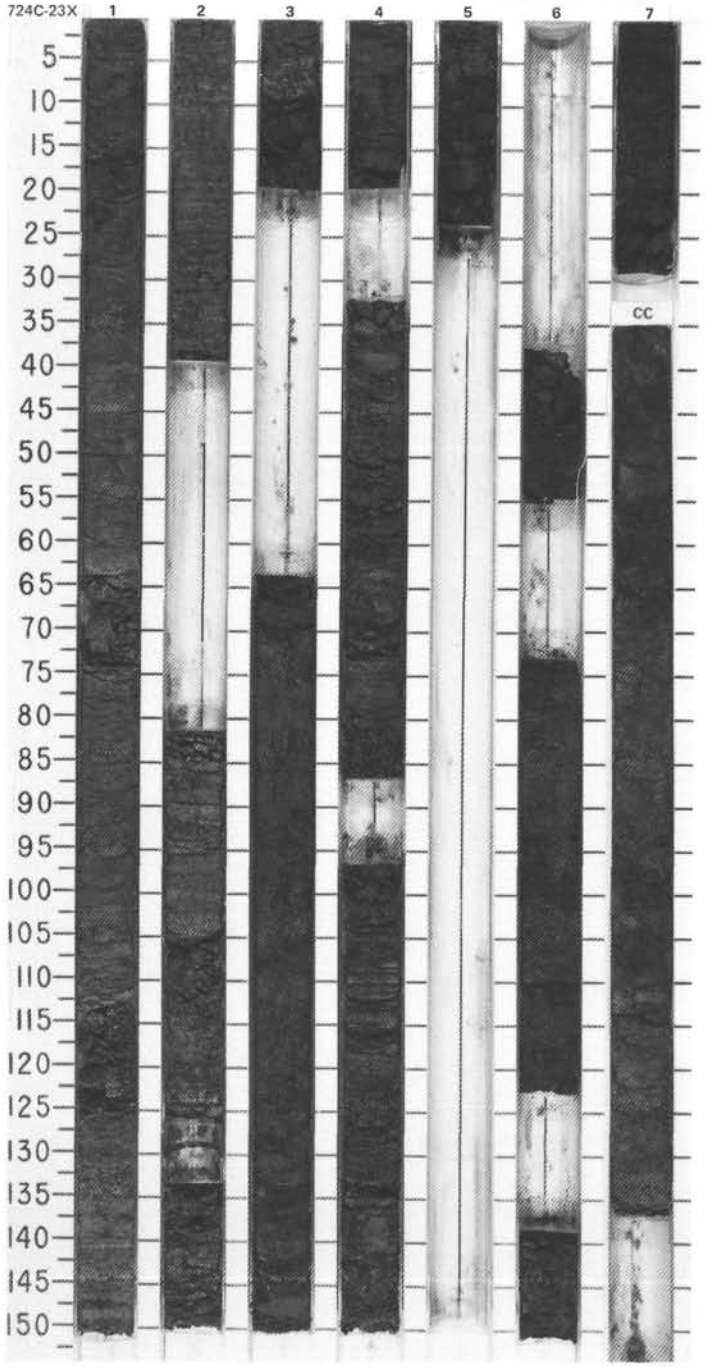
CALCAREOUS CLAYEY SILT

Entire core slightly disturbed. Voids caused by gas expansion.

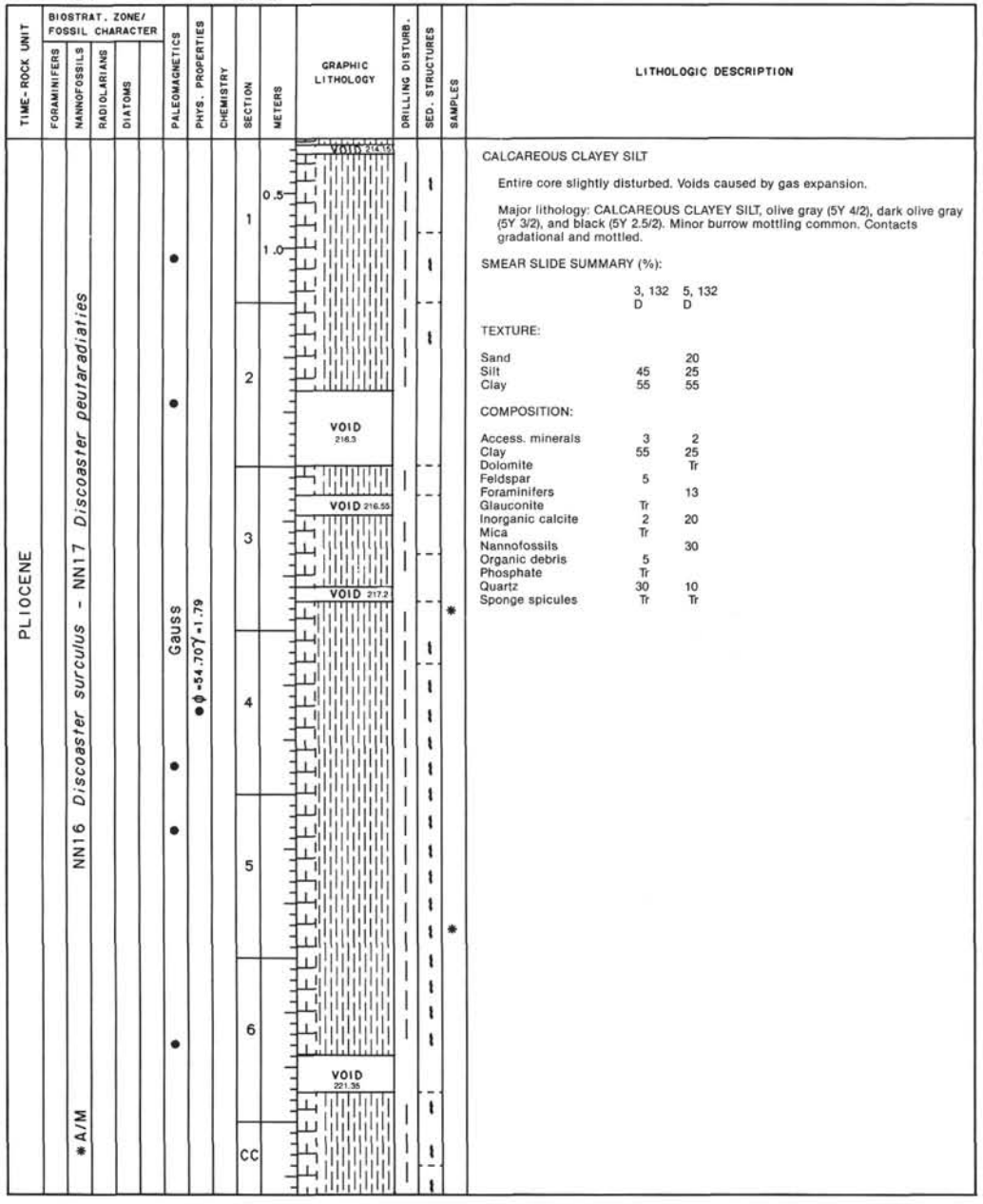
Major lithologies:
a. Calcareous clayey silt, olive gray (5Y 4/2). Minor burrow mottling.
b. Section 1, 106-150 cm, Section 2, 0-150 cm, Section 3, 0-8 and 148-150 cm, and Section 4, 0-135 cm; sub-millimeter laminated diatomaceous mud and diatom ooze, olive (5Y 4/3), olive gray (5Y 4/2), and dark olive gray (5Y 3/2).

SMEAR SLIDE SUMMARY (%):

	1, 143 M	1, 146 M	3, 85 D
TEXTURE:			
Sand		10	15
Silt	70	65	40
Clay	30	25	45
COMPOSITION:			
Access. minerals	1	1	2
Clay	33	25	45
Diatoms	60	45	Tr
Dolomite		Tr	
Fish remains			Tr
Inorganic calcite	5	15	20
Mica		1	1
Organic debris			5
Phosphate		Tr	
Quartz	1	13	25
Radiolarians			1
Sponge spicules		Tr	1



SITE 724 HOLE C CORE 24X CORED INTERVAL 806.9-816.5 mbsl; 214.1-223.7 mbsf



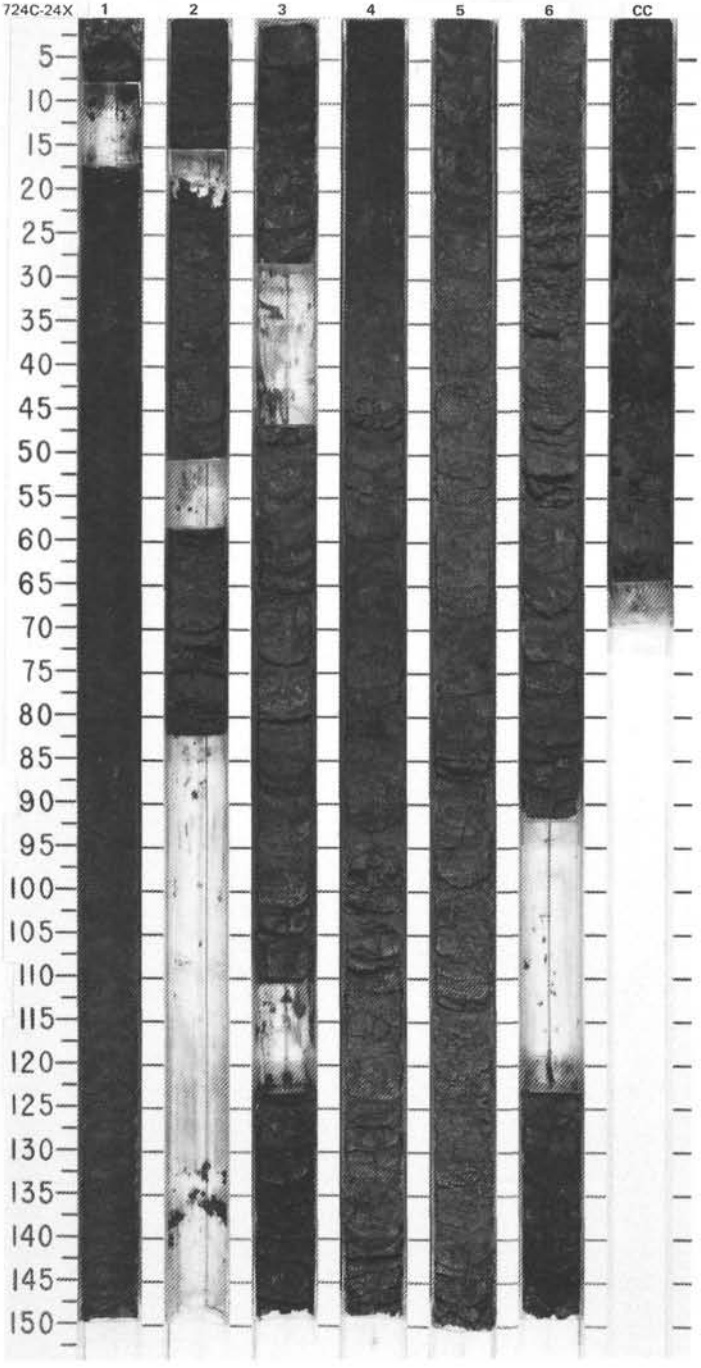
CALCAREOUS CLAYEY SILT

Entire core slightly disturbed. Voids caused by gas expansion.

Major lithology: CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2), dark olive gray (5Y 3/2), and black (5Y 2.5/2). Minor burrow mottling common. Contacts gradational and mottled.

SMEAR SLIDE SUMMARY (%):

	3, 132 D	5, 132 D
TEXTURE:		
Sand		20
Silt	45	25
Clay	55	55
COMPOSITION:		
Access. minerals	3	2
Clay	55	25
Dolomite		Tr
Feldspar	5	
Foraminifers		13
Glauconite	Tr	
Inorganic calcite	2	20
Mica	Tr	
Nannofossils		30
Organic debris	5	
Phosphate	Tr	
Quartz	30	10
Sponge spicules	Tr	Tr



SITE 724 HOLE C CORE 25X CORED INTERVAL 816.5-826.2 mbsl; 223.7-233.4 mbsf

TIME-ROCK UNIT: PLIOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS: *A/M; NANNOFOSSILS: NN16 *Discoaster surculus* - NN17 *Discoaster peutaradiatics*; RADIOLARIANS; DIATOMS

PALEOMAGNETICS: Gauss

PHYS. PROPERTIES: ●ϕ=57.10γ=1.77

CHEMISTRY

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

VOID 226
VOID 226.95
VOID 228.44
VOID 228.75
VOID 230.12
VOID 230.57

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES

LITHOLOGIC DESCRIPTION

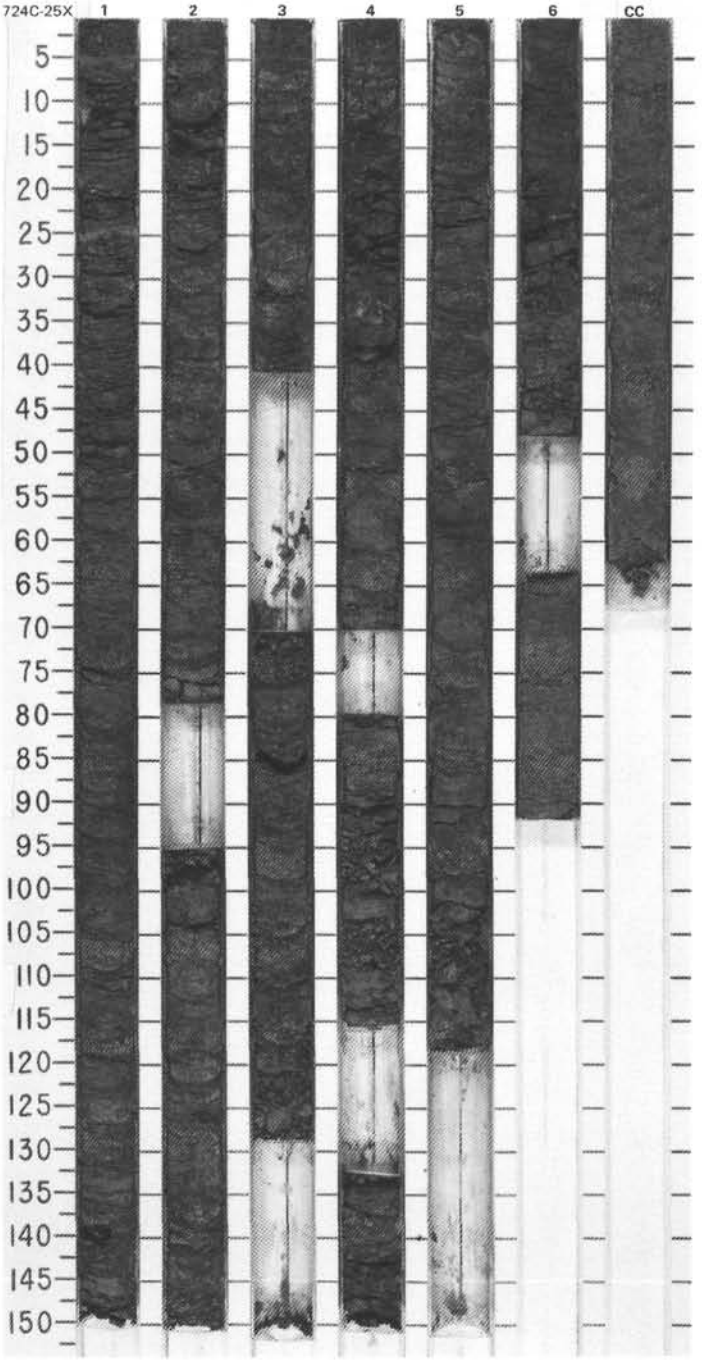
CALCAREOUS CLAYEY SILT

Entire core slightly disturbed. Voids caused by gas expansion.

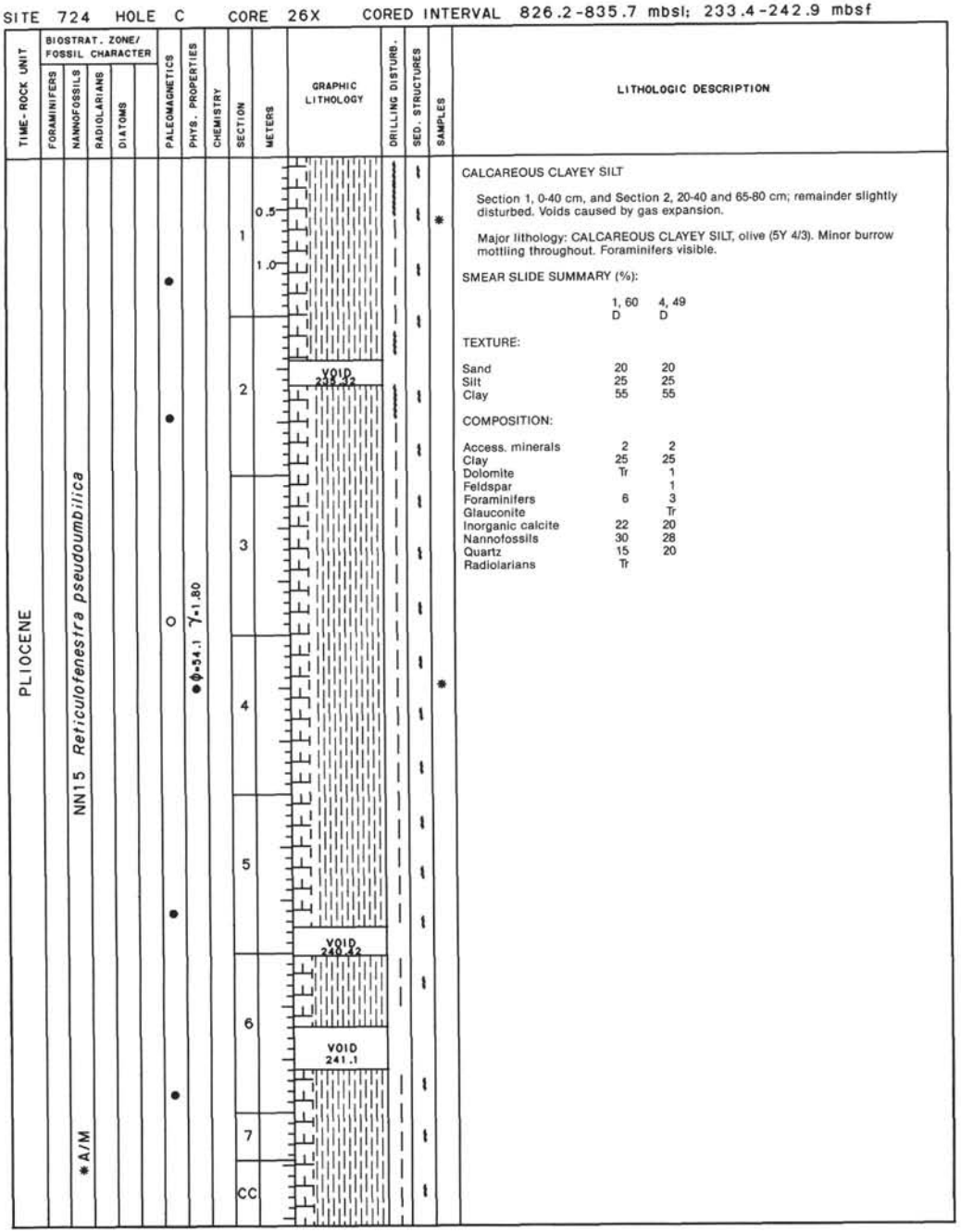
Major lithology: CALCAREOUS CLAYEY SILT, olive gray (5Y 4/2). Minor burrow mottling throughout. Foraminifers visible.

SMEAR SLIDE SUMMARY (%):

	2, 129 D	6, 77 D
TEXTURE:		
Sand	20	25
Silt	25	25
Clay	55	50
COMPOSITION:		
Access. minerals	3	3
Clay	30	27
Dolomite	Tr	
Foraminifers	7	5
Glauconite	Tr	
Inorganic calcite	20	20
Nannofossils	25	25
Quartz	15	20
Sponge spicules	Tr	



SITE 724 HOLE C CORE 26X CORED INTERVAL 826.2-835.7 mbsl; 233.4-242.9 mbsf



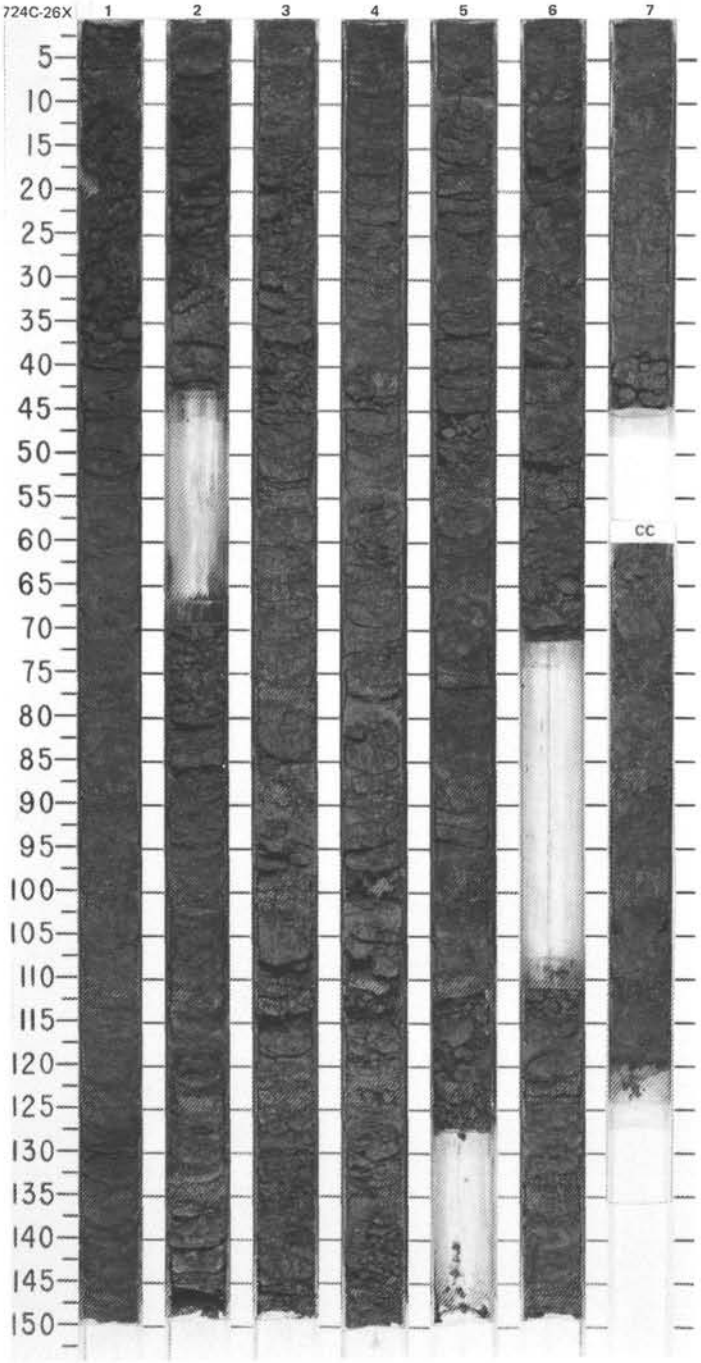
CALCAREOUS CLAYEY SILT

Section 1, 0-40 cm, and Section 2, 20-40 and 65-80 cm; remainder slightly disturbed. Voids caused by gas expansion.

Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 4/3). Minor burrow mottling throughout. Foraminifers visible.

SMEAR SLIDE SUMMARY (%):

	1, 60 D	4, 49 D
TEXTURE:		
Sand	20	20
Silt	25	25
Clay	55	55
COMPOSITION:		
Access. minerals	2	2
Clay	25	25
Dolomite	Tr	1
Feldspar		1
Foraminifers	6	3
Glauconite		Tr
Inorganic calcite	22	20
Nannofossils	30	28
Quartz	15	20
Radiolarians	Tr	



SITE 724 HOLE C CORE 27X CORED INTERVAL 835.7-845.2 mbsl; 242.9-252.4 mbsf

TIME-ROCK UNIT: PLIOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS; NANNOFOSSILS: NN15 *Reticulofenestra pseudoumbilica*; RADIOLARIANS; DIATOMS: *A/M

PALEOMAGNETICS

PHYS. PROPERTIES: ● ϕ-68.4 γ-1.36

CHEMISTRY

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

VOID 243.35
VOID 244.8
VOID 245.46
VOID 246.01
VOID 247.16
VOID 247.44
VOID 247.94
VOID 248.44

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: *

LITHOLOGIC DESCRIPTION

CALCAREOUS CLAYEY SILT

Section 3, 40-60 cm, Section 5, 110-150 cm, and Section 6, 30-60 cm, very disturbed; Section 1, 65-100 cm, Section 3, 0-10 and 40-100 cm, Section 4, 100-130 cm, Section 5, 0-50 cm, and Section 6, 60-140 cm, moderately disturbed; remainder slightly disturbed. Voids caused by gas expansion.

Major lithology: CALCAREOUS CLAYEY SILT, olive (5Y 4/3) and olive gray (5Y 4/2). Minor burrow mottling throughout. Foraminifers visible.

SMEAR SLIDE SUMMARY (%):

	6, 83 D
TEXTURE:	
Sand	30
Silt	20
Clay	50
COMPOSITION:	
Clay	25
Dolomite	Tr
Feldspar	1
Foraminifers	24
Inorganic calcite	15
Nannofossils	25
Quartz	10