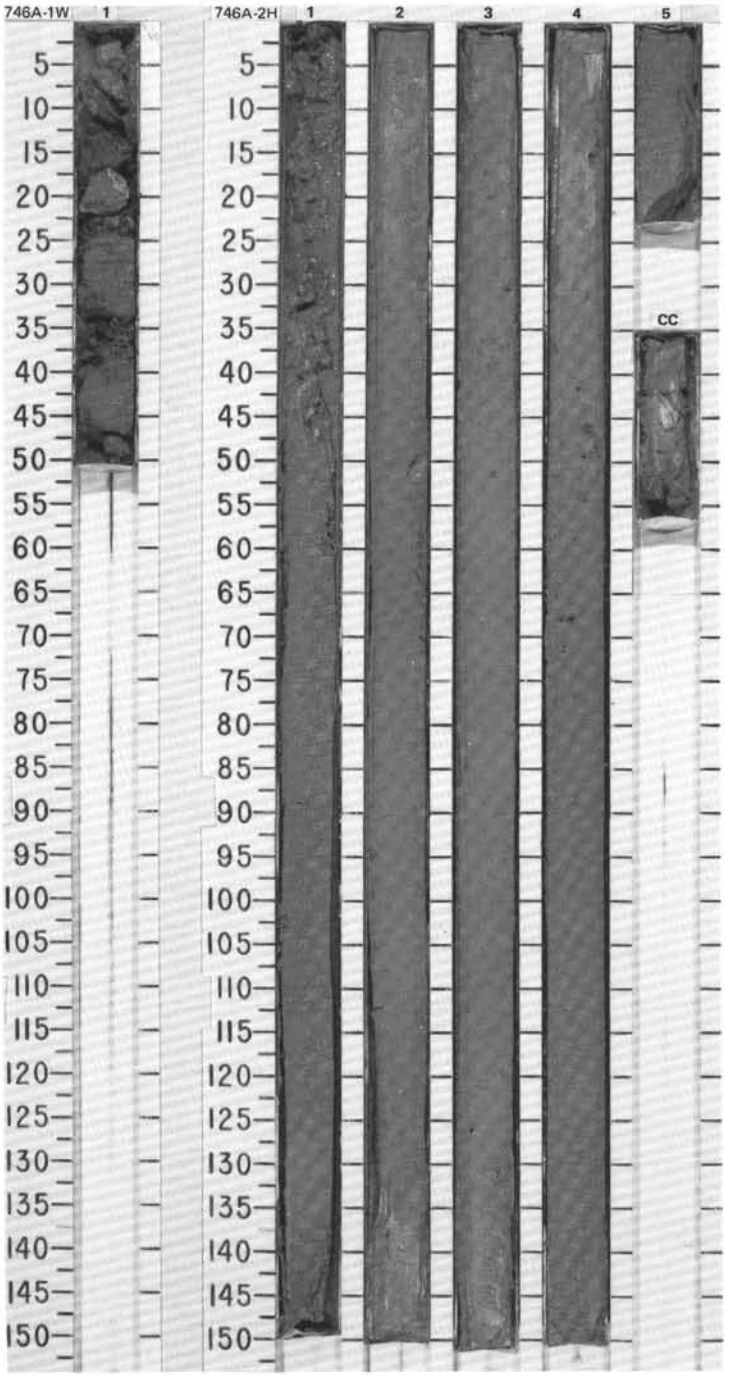
SITE 746 HOLE A CORE 1W CORED INTERVAL 0.0-106.8 mbsf

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
								1			X			Drilling disturbance: The entire recovery consisted of downhole contamination debris washed down to the base of penetration. The clasts of metamorphic rock are presumed to represent lonestones higher in the sequence. The lumps of diatom ooze with clay were homogeneous and gray (5GY 6/1) in color.

SITE 746 HOLE A CORE 2H CORED INTERVAL 106.8-116.3 mbsf

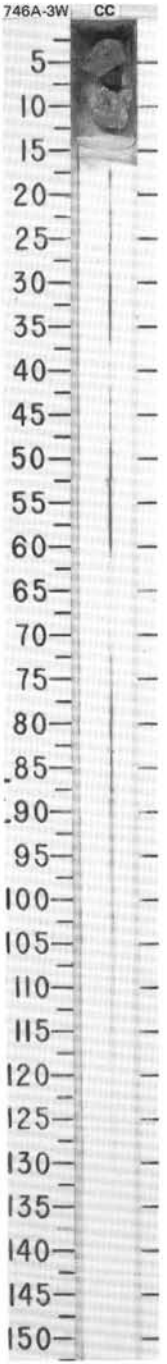
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
LOWER PLIOCENE	B	B	A/G NR6	C/G *Nitzschia reinholdii*			• $\%CaCO_3$>0.1	1	0.5				*	DIATOM OOZE with CLAY and SILT
								2	1.0					Major lithology: Diatom ooze with clay and silt, homogeneous and structureless apart from minor mottling at Section 119-746A-2H (31-36 cm); extremely soft sediment with high water content, pale brown (10YR 6/3), very pale brown (10YR 7/3) "unnamed" olive grey (10Y 5/2), "unnamed" pale red-brown (5YR 6/3) and light olive-gray (5Y 6/2), consisting of 2-3% sand, 73-77% silt and 20-25% clay fraction. Lonestone granules up to 3 mm size and sand grains occur throughout the core at a spacing of about every 5 cm.
								3					*	Drilling disturbance: The upper 40-50 cm are completely disturbed (soupy) and show a steeply convex-up boundary to the in-situ sediment, which is undisturbed in spite of the extremely low competance.
								4					*	SMEAR SLIDE SUMMARY (%):
								5						
								CC						

	1, 90 D	3, 20 D	4, 40 D
TEXTURE:			
Sand	2	3	3
Silt	73	77	77
Clay	25	20	20
COMPOSITION:			
Amphibole	2	Tr	2
Clay	20	20	15
Diatoms	60	70	65
Feldspar	3	1	3
Glauconite	Tr	Tr	Tr
Opaques	1	1	1
Quartz	7	1	5
Radiolarians	3	2	5
Silicoflagellates	Tr	1	1



SITE 746 HOLE A CORE 3W CORED INTERVAL 116.3-164.8 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
									1			X			Drilling disturbance: The recovery was completely of downhole derived metamorphic clasts, probably originating as lonestones in the washed-through sediments. Their maximum size was 4.5 cm.



SITE 746 HOLE A CORE 4H CORED INTERVAL 164.8-174.3 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
UPPER MIOCENE	B	B	A/G NR7/8	C/M* *Denticulopsis hustedtii* C/M		ϕ=75% V=1543 ρ=1.46 w=53% ϕ=75% V=1547 ρ=1.49 w=52% ϕ=75% V=1519 ρ=1.50 w=54%	• $\%CaCO_3$=0.1 $\%TOC$=0.11 • $\%CaCO_3$=0.2 • $\%CaCO_3$=0.2	1 2 3 4 5 6 7 CC	0.5 1.0		○ ○	◇ ◇ ◇	* * * OC IW

LITHOLOGIC DESCRIPTION

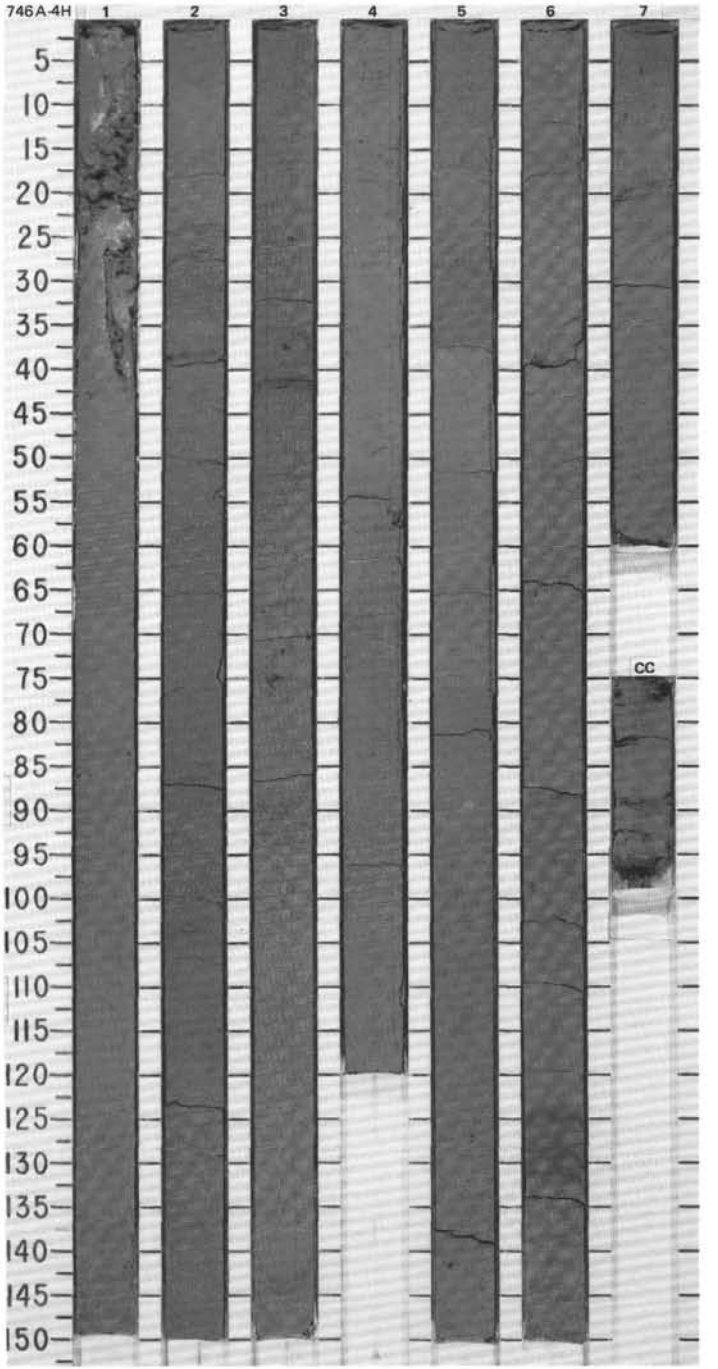
CLAYEY DIATOM OOZE, DIATOM OOZE with CLAY

Major lithologies:
a. Clayey diatom ooze, homogeneous apart from occasional layering (e.g., Section 119-746A-4H-2, 20-32 cm), greenish gray (5GY 5/1, 5G 5/1), with occasional lonestone granules and sand grains.
b. Diatom ooze with clay, homogeneous apart from rare mottles (e.g., Section 119-746A-4H-3, 25-45), greenish gray (5G 5/1, 5GY 6/1), with occasional lonestone granules.

Drilling disturbance:
Soupy disturbance in the top 40 cm, otherwise undisturbed.

SMEAR SLIDE SUMMARY (%):

	1, 86 D	2, 37 D	3, 12 D
TEXTURE:			
Sand	3	4	5
Silt	82	81	75
Clay	15	15	20
COMPOSITION:			
Amphibole	Tr	2	1
Clay	20	15	25
Diatoms	65	60	55
Feldspar	3	5	3
Glauconite	—	Tr	1
Opaques	—	1	1
Quartz	7	7	5
Radiolarians	3	5	5
Silicoflagellates	Tr	Tr	1



SITE 746 HOLE A CORE 5H CORED INTERVAL 174.3-183.8 mbsf

TIME-ROCK UNIT	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS
UPPER MIOCENE	B	B	A/G NR9	C/M *Denticulopsis hustedtii*		V=1538; V=1561 W=48% φ=70% γ=1.60; V=1561	%CaCO3=0.8; %CaCO3=0.1	1, 2, 3, 4, 5, 6, 7, CC	0.5, 1.0

BIOSTRAT. ZONE/ FOSSIL CHARACTER · GRAPHIC LITHOLOGY · DRILLING DISTURB. · SED. STRUCTURES · SAMPLES

LITHOLOGIC DESCRIPTION

DIATOMACEOUS CLAY and CLAYEY DIATOM OOZE

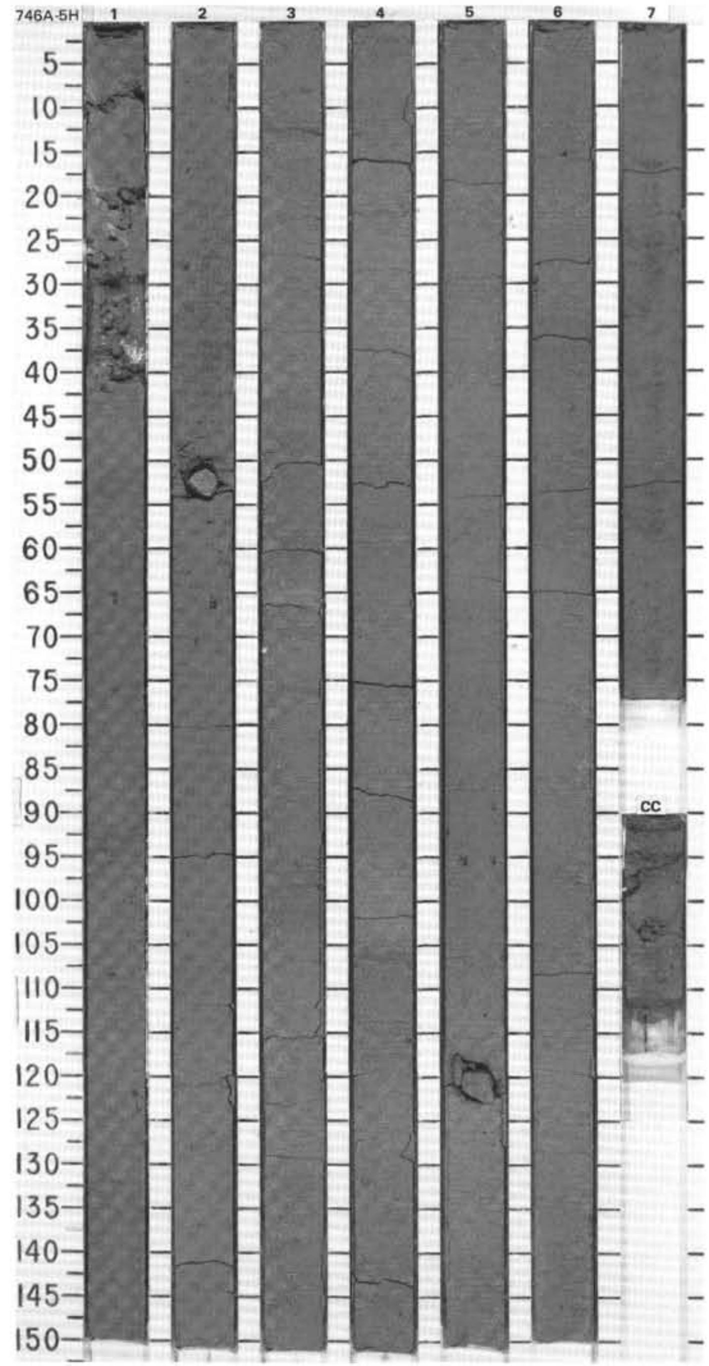
Major lithologies:
a. Diatomaceous clay with minor quartz-feldspar silt, gray (5Y 5/1) to greenish gray (5G 5/1, 5GY 5/1).
b. Clayey diatom ooze, gray (5Y 5/1) to greenish gray (5GY 5/1, (5G 5/1). Diffuse and distinct slightly lighter or darker greenish and grayish layers and bands occur within this lithology.

The sediments are stiff and sticky, and are partly homogeneous and partly mottled and/or bioturbated.

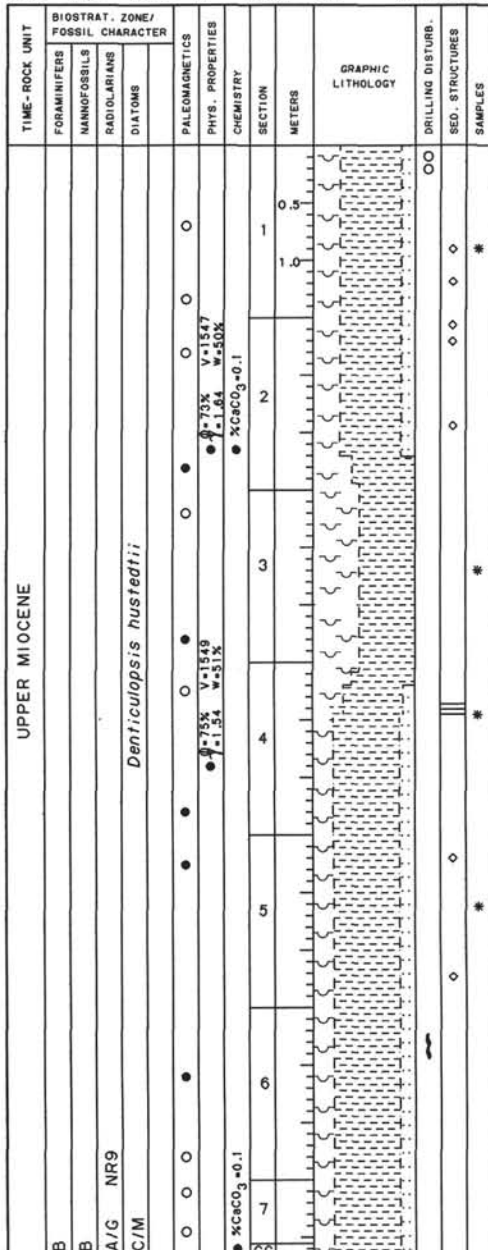
Disseminated quartz and feldspar granules and small pebbles occur throughout, most frequently in Sections 2, 5, and 6. A coarse grained altered garnet-biotite-quartz-feldspar gneiss with 3 cm diameter is present in Section 2, 50 cm, a strongly altered medium grained biotite gneiss with 4 cm diameter in Section 5, 117 cm.

SMEAR SLIDE SUMMARY (%):

	1, 90 D	3, 57 D	4, 90 D
TEXTURE:			
Sand	25	20	10
Silt	40	60	60
Clay	35	20	30
COMPOSITION:			
Access. Minerals	•	•	•
Amphibole		•	•
Clay	30	20	30
Diatoms	45	65	20
Feldspar	5	2	10
Glass	1	—	1
Glauconite	—	1	—
Opaques	2	1	1
Palagonite	•	1	•
Quartz	15	5	15
Radiolarians	5	3	2
Silicoflagellates	2	1	1



SITE 746 HOLE A CORE 6H CORED INTERVAL 183.8-193.3 mbsf



LITHOLOGIC DESCRIPTION

CLAY and CLAY-DIATOM OOZE

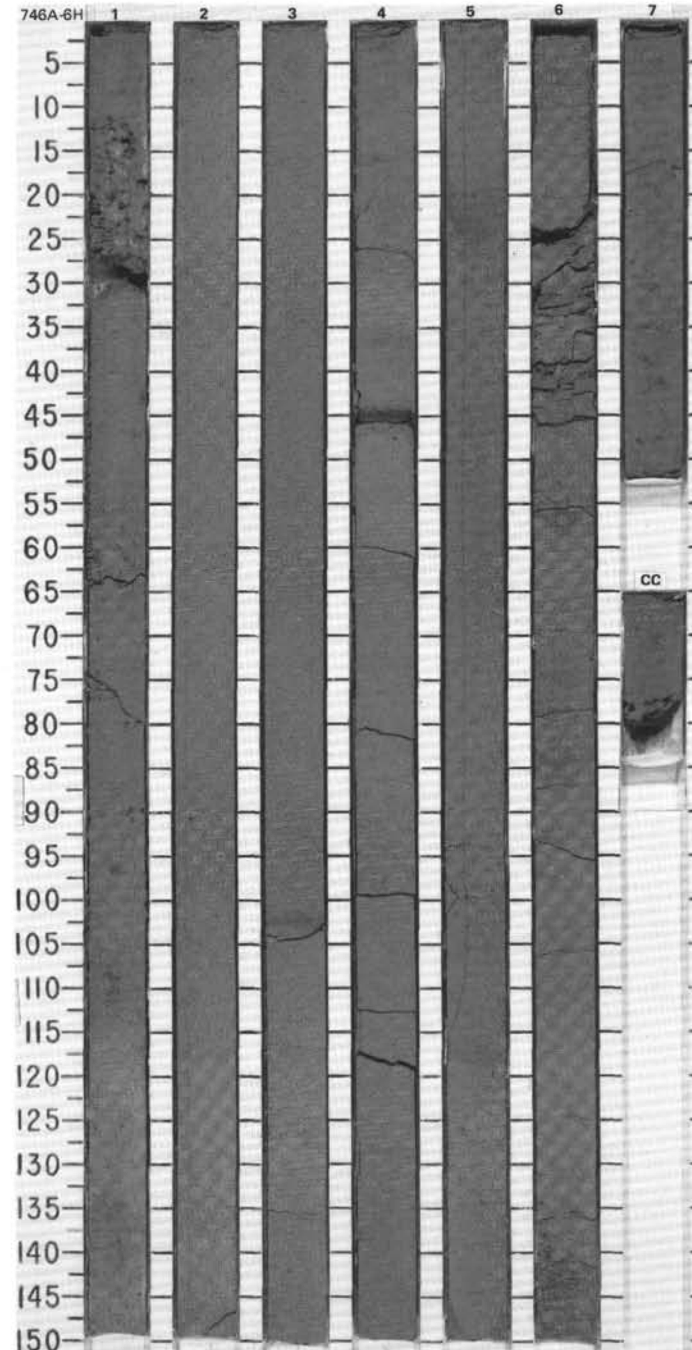
Major lithology:
Clay with minor silt and diatoms to clay-diatom ooze, with variations between, mainly gray (5Y 5/1) or greenish gray (5GY 5/1). The sediment is stiff and sticky. In part it is mottled with slightly more reddish or greenish gray (5GY 6/1) colors. Diffuse lamination and bedding in Section 4 has additional colors greenish gray (5GY 5/1) and unnamed ("green", 5G6/1). Occasional black smears are present. Quartz and feldspar sand and silt are disseminated throughout, and granules occur in Sections 1, 2 and 5.

Minor lithology:
Soft claystone: Section 3, 100-103 cm, greenish gray (5GY 5/1); Section 4, 45-47 cm, unnamed ("dark green," 5G 4/2).

Drilling and splitting disturbance:
Soupiness in Section 1 led to mud being smeared along core liner in Section 1 during splitting. Flow in has occurred at the base of Section 7 and in core catcher.

SMEAR SLIDE SUMMARY (%):

	1, 90 D	3, 70 D	4, 46 M	5, 62 D
TEXTURE:				
Sand	5	10	5	5
Silt	35	50	30	35
Clay	60	40	65	60
COMPOSITION:				
Access. minerals	Tr	Tr	Tr	Tr
Amphibole	Tr	Tr	Tr	Tr
Clay	60	40	65	60
Diatoms	25	45	15	20
Feldspar	3	2	5	5
Glauconite	1	1	2	1
Opaques	2	1	1	1
Palagonite	Tr	Tr	Tr	1
Quartz	5	5	10	10
Radiolarians	2	2	2	2
Silicoflagellates	—	1	Tr	—



SITE 746 HOLE A CORE 7H CORED INTERVAL 193.3-202.8 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
UPPER MIOCENE	B	B	A/G NR9	C/M *Denticulopsis hustedtii*	•	•	• $CaCO_3$=0.1	CC					
					•	•	• $CaCO_3$=0.7	7					
					•	• ϕ=73% V=1603 γ=1.63 w=48%	• $CaCO_3$=0.1	6					
					•	• ϕ=67% V=1557 γ=1.50 w=50%		5					
					•			4					
					•	• ϕ=72% V=1537 γ=1.58 w=49%	• $CaCO_3$=0.1	3					
					O			2					
					•			1	0.5 / 1.0		O	OG IW	

LITHOLOGIC DESCRIPTION

CLAY-DIATOM OOZE, CLAYEY DIATOM OOZE and DIATOMACEOUS SILTY CLAY

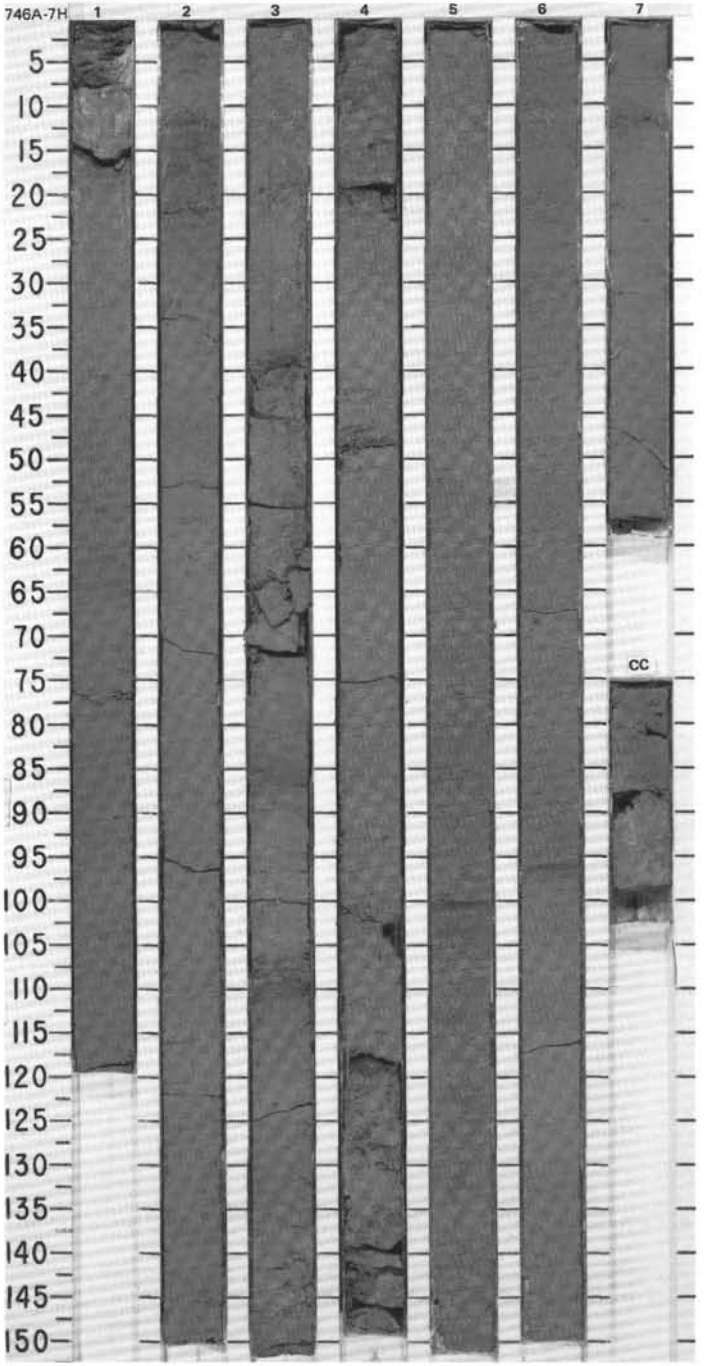
Major lithologies:

a. Clay-diatom ooze (equal proportions of clay and diatoms) and clayey diatom ooze, and variations thereof, with minor quartz-feldspar silt; gray (5Y 5/1), dusky yellow green (5GY 5/2) and greenish gray (5G 5/1, 5GY 5/1); Sections 1-4. The stiff, sticky sediment is faintly mottled in part and silty laminae occur in Section 3. A few granules occur in part of the core.

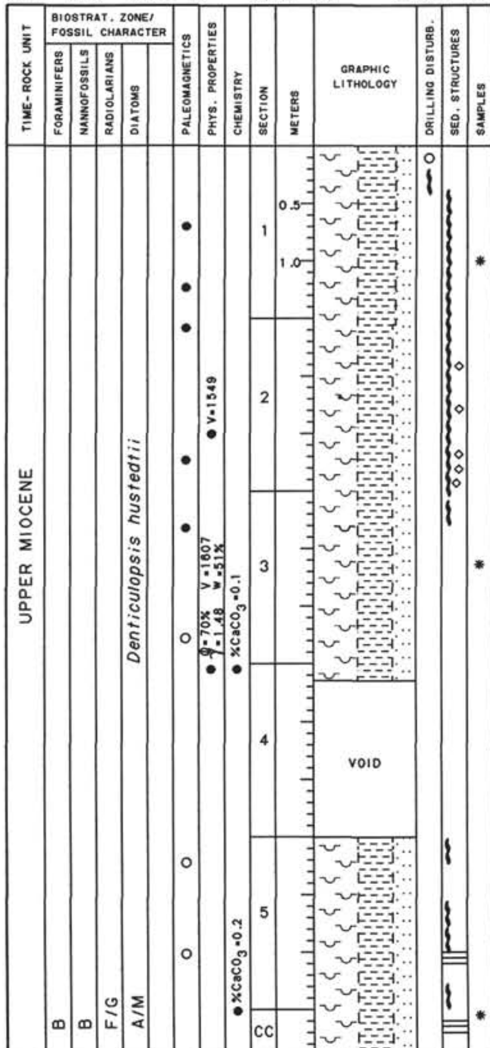
b. Diatomaceous silty clay, greenish gray (5G 5/1); Sections 5 and 6. This is a very stiff clay, bioturbated throughout with complex gray laminae (possibly diagenetic) in Section 6, 33-48 cm. Granules are disseminated throughout.

SMEAR SLIDE SUMMARY (%):

	1, 90 D	2, 60 D	4, 70 D	6, 85 D
TEXTURE:				
Sand	5	15	15	10
Silt	50	50	45	50
Clay	45	35	40	40
COMPOSITION:				
Access. Minerals	Tr	Tr	Tr	—
Amphibole	—	—	—	Tr
Clay	45	35	40	35
Diatoms	40	40	40	30
Feldspar	2	5	3	10
Glass	—	—	—	1
Glauconite	1	1	1	—
Opaques	Tr	1	1	1
Palagonite	—	1	1	Tr
Quartz	5	10	10	20
Radiolarians	2	5	3	1
Silicoflagellates	—	—	Tr	—



SITE 746 HOLE A CORE 8H CORED INTERVAL 202.8-209.3 mbsf



LITHOLOGIC DESCRIPTION

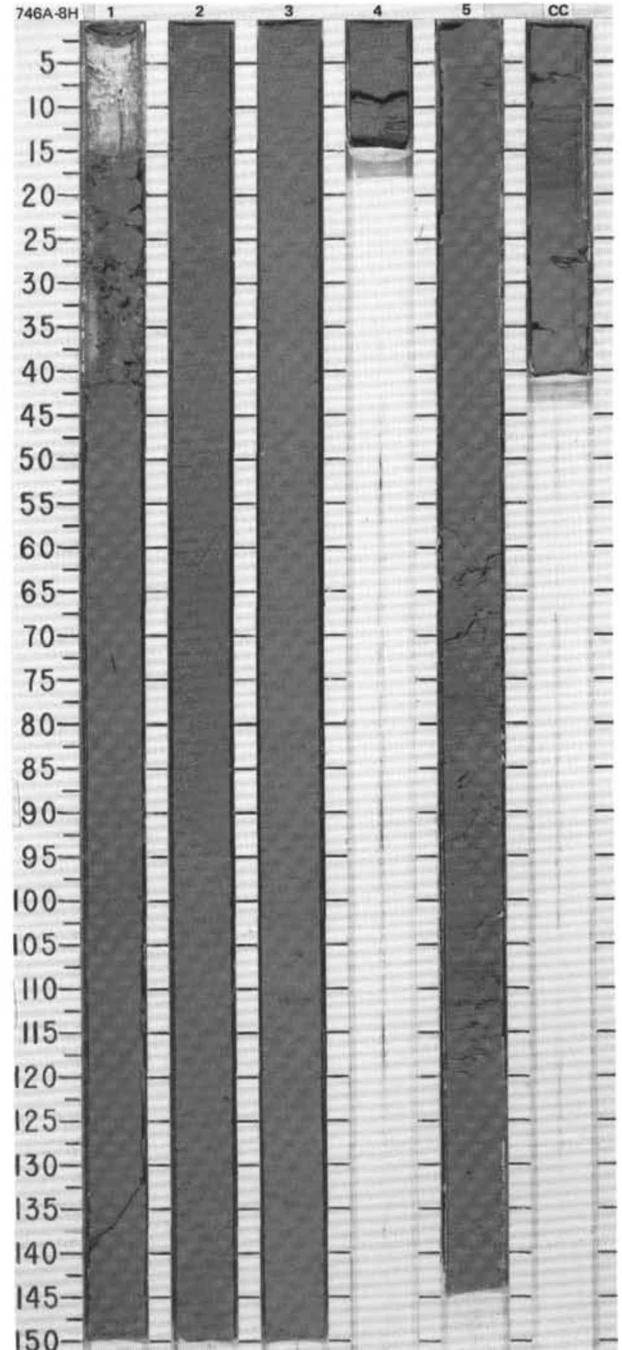
CLAYEY DIATOM OOZE

Major lithology:
Clayey diatom ooze with minor quartz-feldspar silt; gray (5Y 5/1) and greenish gray (5GY 5/1). The sediment is very stiff and is bioturbated inpart, but otherwise featureless. Locally, it is mottled slightly reddish (still 5Y 5/1). Darker diffuse bands (grayish green, 5G 5/2) occur in Section 5.

Drilling disturbance:
The original core liner shattered into two large pieces, the first being 4.6 m long was placed in Sections 1-4, the second placed in Section 5 and CC. The non-recovered interval in Section 4 therefore does not represent a stratigraphic gap. Section 5, 40-120 cm shows some drilling fracture of clay.

SMEAR SLIDE SUMMARY (%):

	1, 100 D	3, 65 D	CC, 5 D
TEXTURE:			
Sand	25	20	20
Silt	40	45	45
Clay	35	35	35
COMPOSITION:			
Access. Minerals	Tr	Tr	Tr
Amphibole	1	Tr	Tr
Clay	35	32	32
Diatoms	40	38	40
Feldspar	7	10	5
Glauconite	1	2	1
Opaques	1	1	1
Palagonite	1	1	1
Quartz	10	10	15
Radiolarians	3	5	5



SITE 746 HOLE A CORE 9H CORED INTERVAL 209.3-217.8 mbsf

TIME-ROCK UNIT: UPPER MIOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS: B; NANNOFOSSILS: B; RADIOLARIANS: F/G NR9; DIATOMS: C/M *Denticulopsis hustedtii*

PALEOMAGNETICS

PHYS. PROPERTIES: ϕ=71% V=1574 w=51% γ=1.56; ϕ=68% V=1575 w=48% γ=1.58; ϕ=76% V=1595 w=56% γ=1.47

CHEMISTRY: %$CaCO_3$=0.1; %$CaCO_3$=0.1

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES

LITHOLOGIC DESCRIPTION

DIATOMACEOUS CLAY and CLAYEY DIATOM OOZE

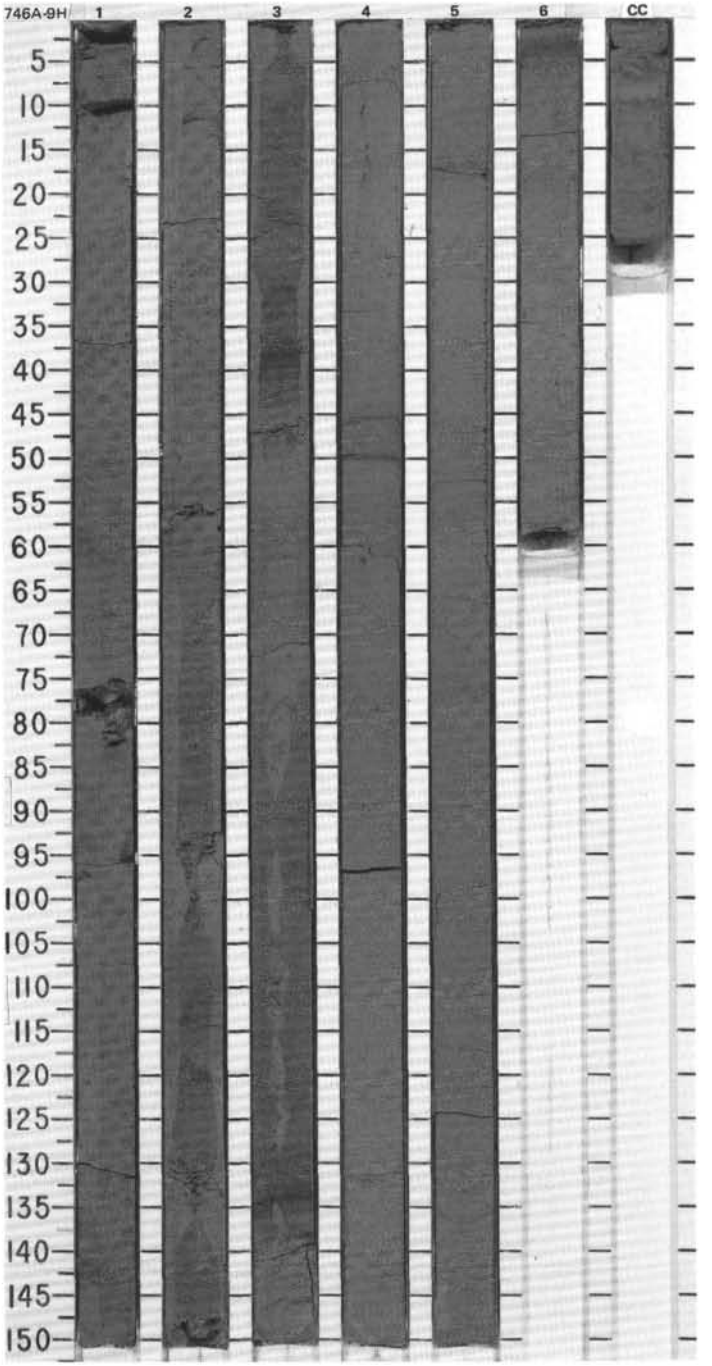
Major lithologies:
a. Diatomaceous clay with minor silt, with variations between mainly gray (5Y 5/1) or greenish gray (5GY 5/1, 5G 5/1).
b. Clayey diatom ooze with minor silt, from gray (5Y 5/1) to greenish gray (5GY 5/1, 5G 5/1).

The sediment of both lithologies is stiff and sticky. In part it is mottled with slightly more greenish and grayish colors. Diffuse lamination is mostly restricted to the diatomaceous clay. Sporadic quartz and feldspar sand and silt grains are disseminated throughout.

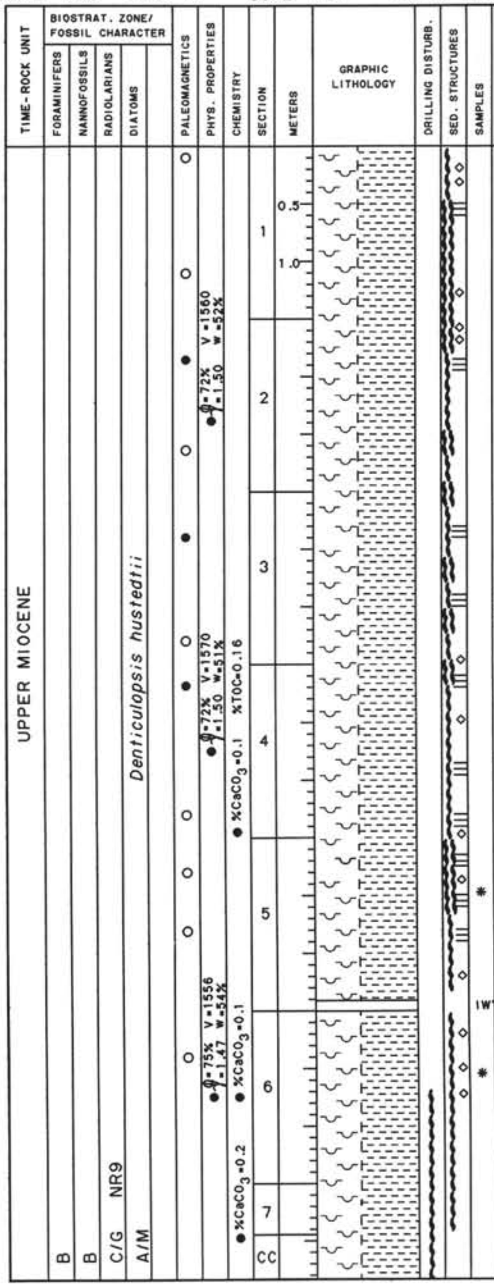
Drilling and splitting disturbance:
From top of core down to Section 4, 30 cm, the core is very disturbed. In Section 1, 60-150 cm, Section 2, 3, and Section 4, 0-30 cm, suck-in caused the two major lithologies side by side.

SMEAR SLIDE SUMMARY (%):

	2, 80 D	4, 80 D
TEXTURE:		
Sand	25	10
Silt	45	40
Clay	30	50
COMPOSITION:		
Access. Minerals	Tr	Tr
Amphibole	Tr	—
Clay	30	50
Diatoms	45	35
Feldspar	5	2
Glauconite	1	1
Opaques	2	2
Palagonite	1	—
Quartz	7	5
Radiolarians	5	5
Silicoflagellates	3	Tr
Spicules	Tr	—



SITE 746 HOLE A CORE 10H CORED INTERVAL 217.8-227.3 mbsf



LITHOLOGIC DESCRIPTION

DIATOMACEOUS CLAY

Major lithology:

Diatomaceous clay, gray (5Y 5/1; dominant) varying with light greenish gray (5GY 7/1; minor). Gray (5Y 6/1) diffuse layers and burrow-fills are of clayey diatom ooze. Bioturbation is weakly to moderately developed throughout. Planolites is well-developed in places, and is lined with dark gray (5Y 4/1) material in Section 4, 108-129. Zoophycos burrows occur in Section 1, 84 cm and 139 cm, and Section 3, 132 cm.

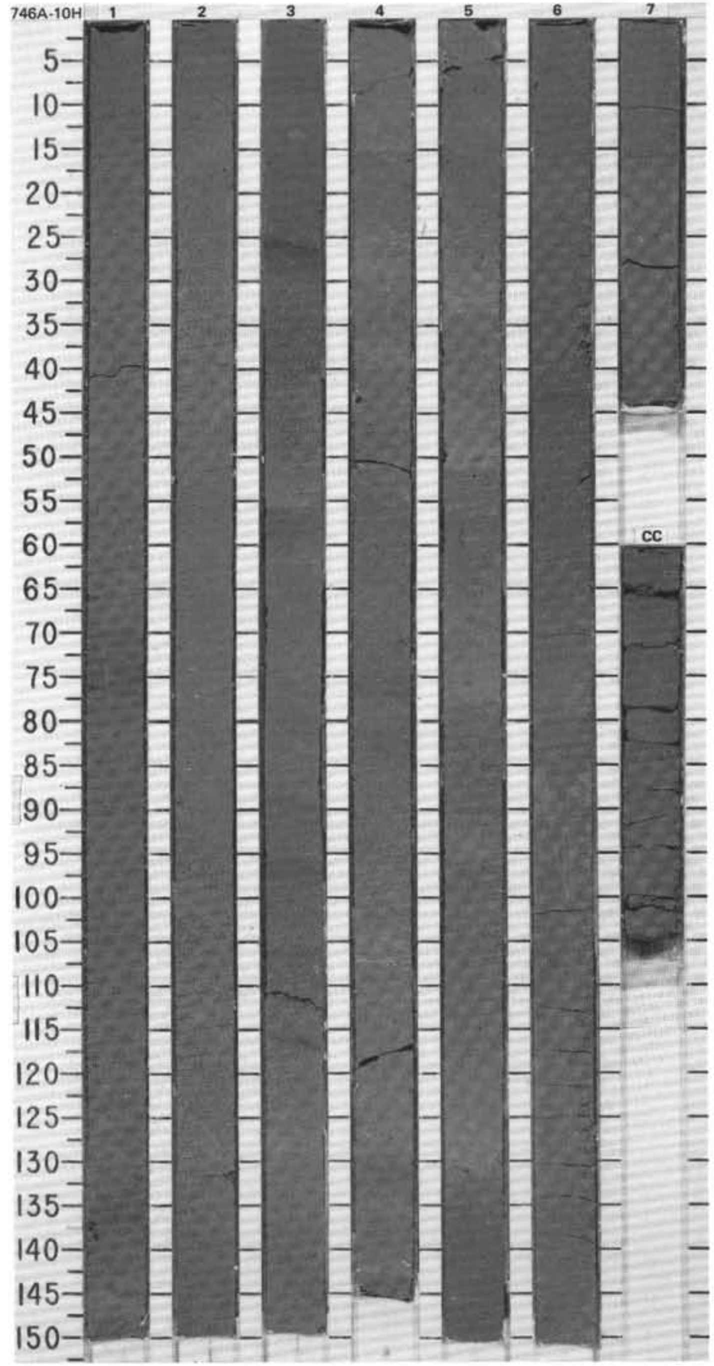
Dark greenish gray (5GY 4/1) diagenetic color laminae are common. They are either diffuse or have a sharp base, and some cut across burrows. In Section 3 they are in turn affected by small-scale normal faults; these may be compactional or the result of drilling disturbance.

Granule are dispersed unevenly throughout, with pebbles in Section 1, 135 cm (a 2 cm long subangular granite) and in Section 4, 43 cm (5 mm long subrounded, faceted amphibolite).

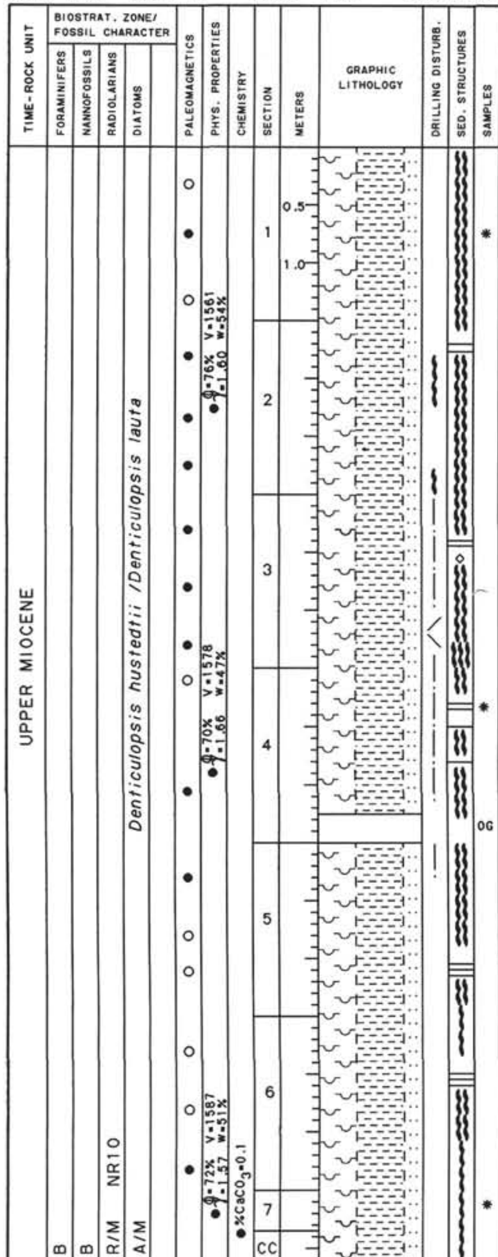
Drilling disturbance:
Section 6 and the core catcher have been severely disturbed with syringe structures having developed.

SMEAR SLIDE SUMMARY (%):

	5, 49 D	6, 55 D
TEXTURE:		
Sand	25	10
Silt	40	40
Clay	35	50
COMPOSITION:		
Access. Minerals	Tr	Tr
Clay	35	50
Diatoms	60	40
Feldspar	2	2
Glass	—	Tr
Glauconite	Tr	1
Opaques	Tr	1
Palagonite	—	1
Quartz	3	3
Radiolarians	Tr	2
Silicoflagellates	Tr	Tr



SITE 746 HOLE A CORE 11X CORED INTERVAL 227.3-234.8 mbsf



LITHOLOGIC DESCRIPTION

DIATOMACEOUS SILTY CLAY

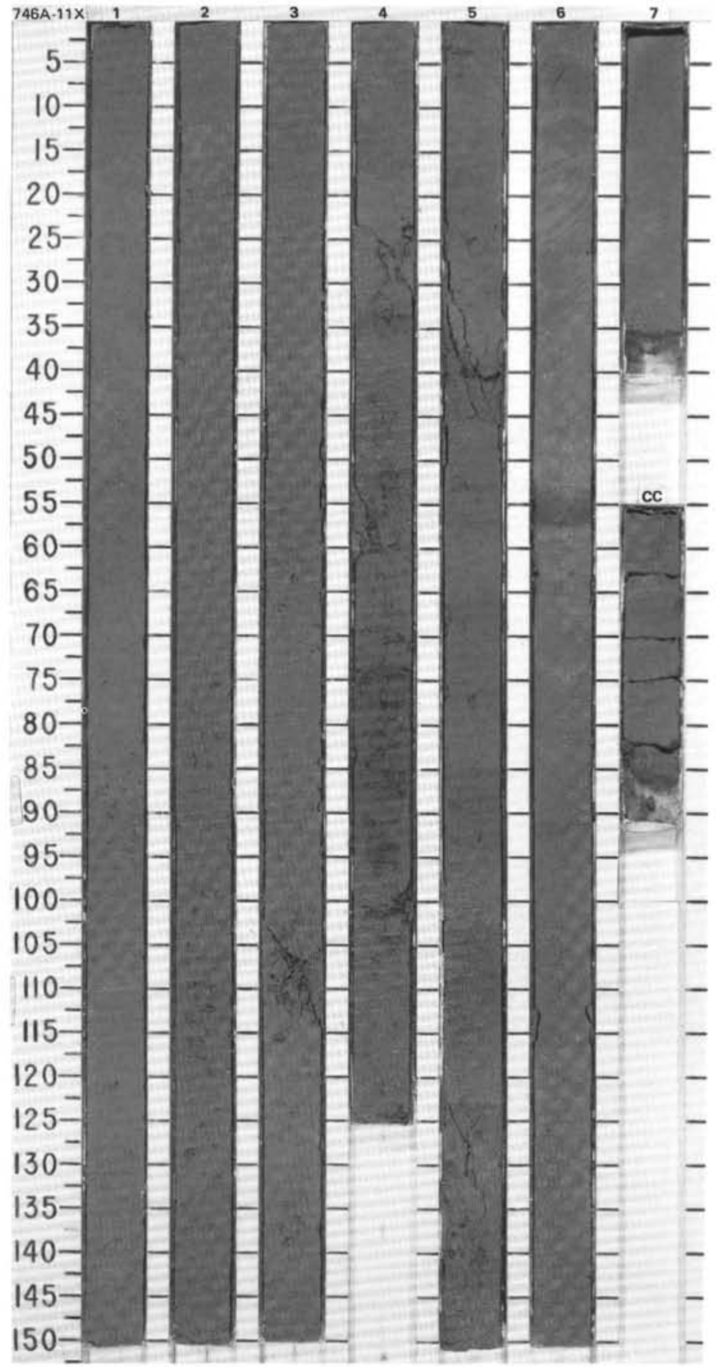
Major lithology:
Diatomaceous silty clay, greenish-gray (5GY 5/1, 5G 5/1) to grayish-green (5G 5/2) with coarse quartz grains, granules and small pebbles disseminated throughout the core. Mottling and weak to moderate bioturbation also occur throughout the core; Planolites and Zoophycos are present in Section 5. Whitish alteration zones around small clasts; darker banding of diagenetic origin in Section 2, 18 cm; Section 3, 47 cm; Section 4, 33 cm, 48 cm, 52 cm, 73 cm; Section 5, 102 cm, 105-107 cm; Section 6, 52-57 cm.

Drilling disturbance:
Drilling biscuits in Section 2, 20-60 cm, 133-141 cm; Section 3 is moderately disturbed throughout with drilling biscuits at 115-150 cm; Sections 4 and 5 are moderately deformed throughout. Fractures occur in Section 3, 103-115 cm and in Section 5, 30-47 cm, 80-92 cm, and 123-150 cm.

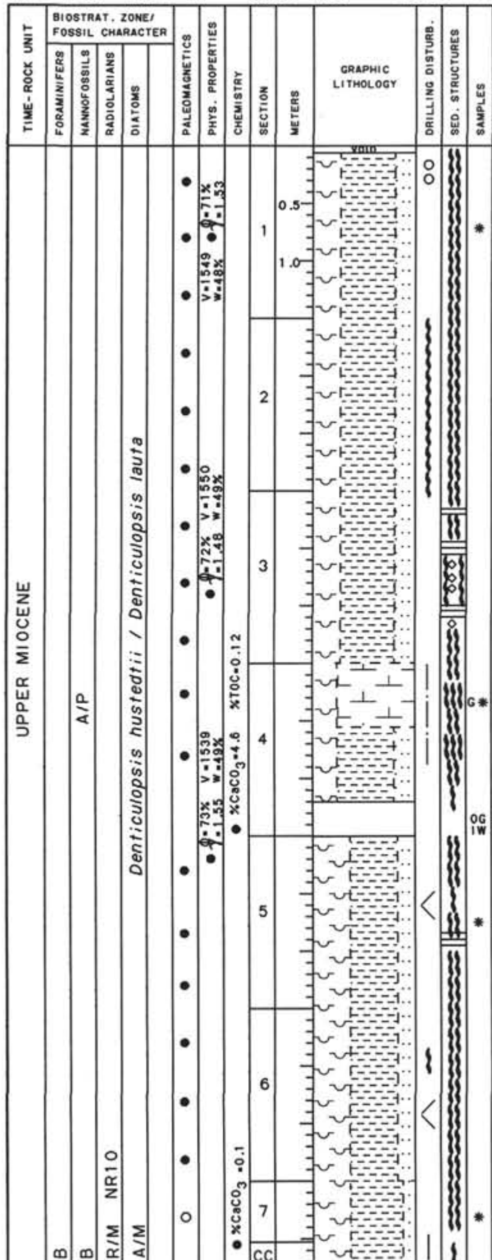
SMEAR SLIDE SUMMARY (%):

	1, 75 D	4, 34 D	7, 14 D
TEXTURE:			
Sand	2	11	5
Silt	40	79	83
Clay	58	10	12
COMPOSITION:			
Amphibole	Tr	Tr	Tr
Clay	45	50	45
Diatoms	35	35	35
Feldspar	5	3	4
Glass	Tr	Tr	Tr
Glauconite	Tr	Tr	Tr
Opaques	1	1	1
Quartz	8	10	10
Radiolarians	3	—	5
Silicoflagellates	Tr	Tr	Tr

746A 12H NO RECOVERY



SITE 746 HOLE A CORE 13X CORED INTERVAL 242.2-251.8 mbsf



LITHOLOGIC DESCRIPTION

DIATOMACEOUS SILTY CLAY

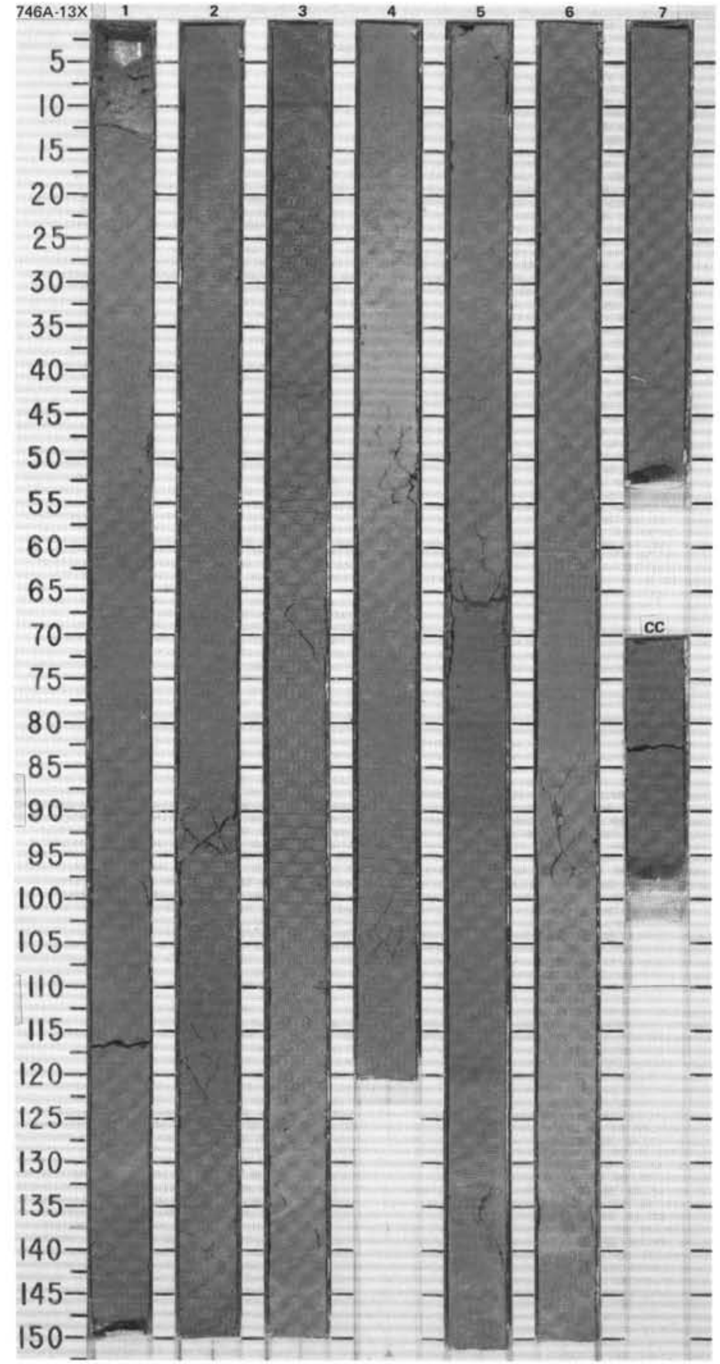
Major lithology:
Diatomaceous silty clay, gray (5Y 6/1), greenish gray (5G 5/1), dusky yellow green (5GY 5/1) with coarse quartz grains and granules disseminated throughout the core; whitish alteration zones occur around some grains. Darker coloured diagenetic bands occur in Section 3, 8-11 cm, 38-42 cm, 93-96 cm, 102 cm; Section 5, 83-87 cm; in many cases the bands are disrupted by small fractures. Bioturbation is weak to strong. Planolites burrows in Sections 1, 5 and 7; a burrow in Section 1 is displaced by a small fracture. Up to 7% nannofossils occur in Section 7.

Minor lithology:
Diatomaceous nannofossil ooze, gray (5Y 6/1) to pale green gray (5G 6/1); moderate to intensely burrowed and bioturbated. Section 4, 0-58 cm.

Drilling disturbance:
Section 1, soupy from 5-10 cm; section 2 and 3 are intensely disturbed; Section 4 is moderately disturbed; Section 5 is fractured, 60-75 cm; Section 6 is fractured, 909-100 cm; the core catcher is moderately disturbed.

SMEAR SLIDE SUMMARY (%):

	1, 72 D	4, 36 M	5, 76 M	7, 33 D
TEXTURE:				
Sand	4	2	2	2
Silt	41	93	40	43
Clay	55	5	58	55
COMPOSITION:				
Amphibole	Tr	Tr	Tr	Tr
Clay	55	5	50	50
Diatoms	25	25	35	35
Feldspar	5	Tr	3	1
Glauconite	Tr	—	Tr	—
Nannofossils	—	65	—	7
Opaques	2	2	2	2
Quartz	12	Tr	7	2
Radiolarians	Tr	2	—	—
Silicoflagellates	—	Tr	Tr	—



SITE 746 HOLE A CORE 14X CORED INTERVAL 251.8-261.5 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
UPPER MIOCENE	B	B	F/G	NR10 *D. hustedtii* A/M / *D. lauta*	O	ρ=1.72% V=1528 ρ=1.48 W=50%	●%$CaCO_3$=0.2	1	0.5				*	CLAYEY DIATOMACEOUS OOZE
									1.0	VOID				
					O			2						
								CC					*	

CLAYEY DIATOMACEOUS OOZE

Major lithology:
Clayey diatomaceous ooze, grayish green (5G 5/1), mottled and bioturbated with darker greenish gray diagenetic bands at 18-20 cm in Section 1, and dark blotches and streaks in Section 1, 68 cm; Section 2, 40 cm and 50 cm. Quartz granules are disseminated through Section 2.

Minor lithology:
Clayey diatomaceous ooze with minor silt, dusky yellow green (5Y 6/1, 5GY 5/1) but color changes downcore. Bioturbation and dark bands occur, core catcher.

Drilling disturbance:
Section 1, slightly disturbed 0-15 cm; Section 2, 64-70 cm, fractured.

SMEAR SLIDE SUMMARY (%):

	1, 74 D	CC, 13 D
TEXTURE:		
Sand	1	5
Silt	79	70
Clay	20	25
COMPOSITION:		
Amphibole	Tr	Tr
Clay	20	30
Diatoms	60	45
Feldspar	3	5
Glauconite	—	Tr
Nannofossils	5	—
Opaques	2	2
Quartz	3	15
Radiolarians	2	2
Silicoflagellates	Tr	Tr

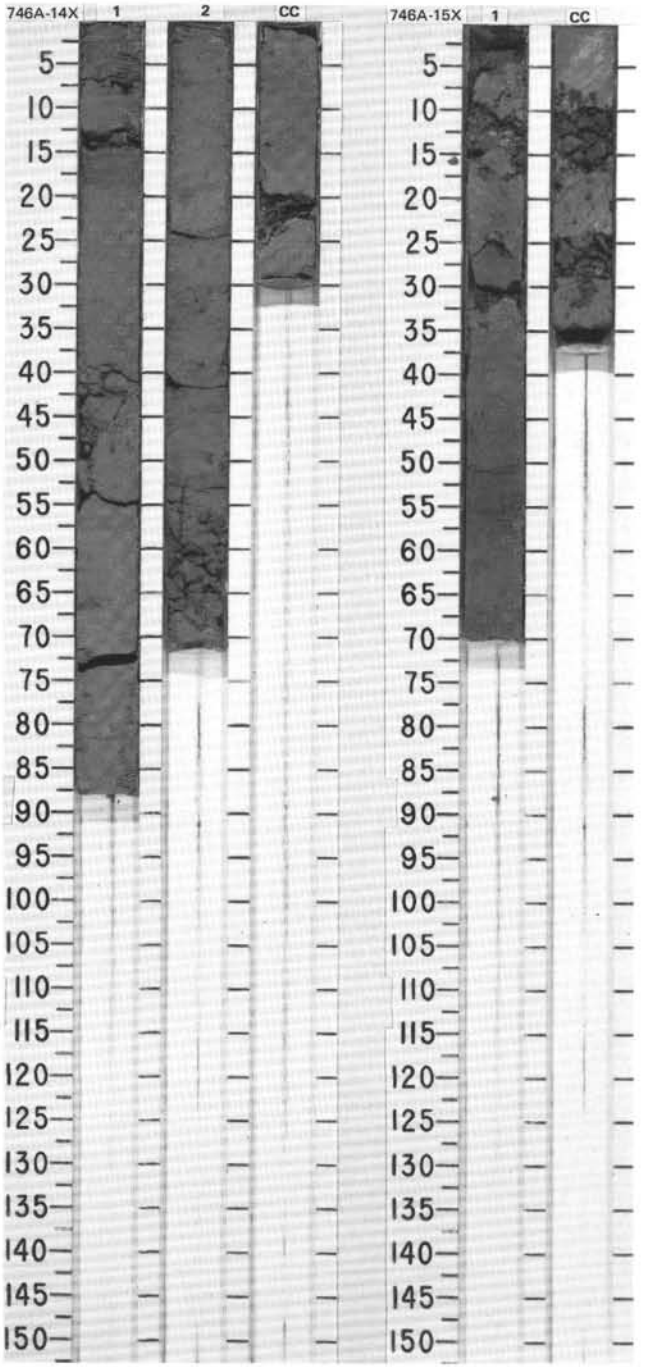
SITE 746 HOLE A CORE 15X CORED INTERVAL 261.5-271.1 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
UPPER MIOCENE	B	B	R/M	*D. hustedtii* A/M / *D. lauta*	●	V=1579 ρ=1.57 W=44%	●%$CaCO_3$=0.1	1	0.5	VOID				DIATOMACEOUS SILTY CLAY
					●			CC						

DIATOMACEOUS SILTY CLAY

Major lithology:
Diatomaceous silty clay, greenish gray (5G 5/1), bioturbated with disseminated coarse quartz grains and granules. Darker color banding displaced by small fractures occurs in Section 1, 50 cm.

Drilling disturbance:
Fractured and broken in Section 1 and in core catcher; drilling biscuits in Section 1, 35-40 cm.



SITE 746 HOLE A CORE 16X CORED INTERVAL 271.1-280.8 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
UPPER MIOCENE	B	B	R/M	*D. hustedtii* A/M/ *D. lauta*	● ● ●	ϕ=72% V=1564 ρ=1.53 w=51% ●	● %$CaCO_3$=0.1	1	0.5	VOID			*	DIATOMACEOUS SILTY CLAY Major lithology: Diatomaceous silty clay, greenish gray (5G 6/1) with coarse grains, granules and small pebbles up to 1.5 cm long. Most clasts are composed of quartz and disseminated throughout the core which is mottled and bioturbated. Drilling disturbance: Section 1, 0-25 cm highly disturbed, 25-80 cm moderately disturbed, 80-98 cm moderately fractured. SMEAR SLIDE SUMMARY (%): 1, 53 D TEXTURE: Sand 2 Silt 73 Clay 25 COMPOSITION: Amphibole Tr Clay 50 Diatoms 35 Feldspar 3 Glauconite Tr Nannofossils 1 Opaques 1 Quartz 7 Silicoflagellates 1
								CC	1.0