SITE 819 HOLE A CORE 1H CORED INTERVAL 0.0-8.5 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
PLEISTOCENE	A/G	A/G			N	N		1	0.5		N	*	
	N22 - N23	CN15							1.0				
					N	N		2					
								3				*	
					N	N		4					
					N	N		5					TW
					N			6					
								CC					PAL

	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY
1-1			63.2%
1-2		65.8% 1.67	
2-1		68.3% 1.63	61.6%
3-1	69.7% 1.54		33.0%
4-1	62.8% 1.72		61.8%
5-1	56.6% 1.86		75.3%
5-2			31.8%
6-1	59.1% 1.76		
6-2			67.3%

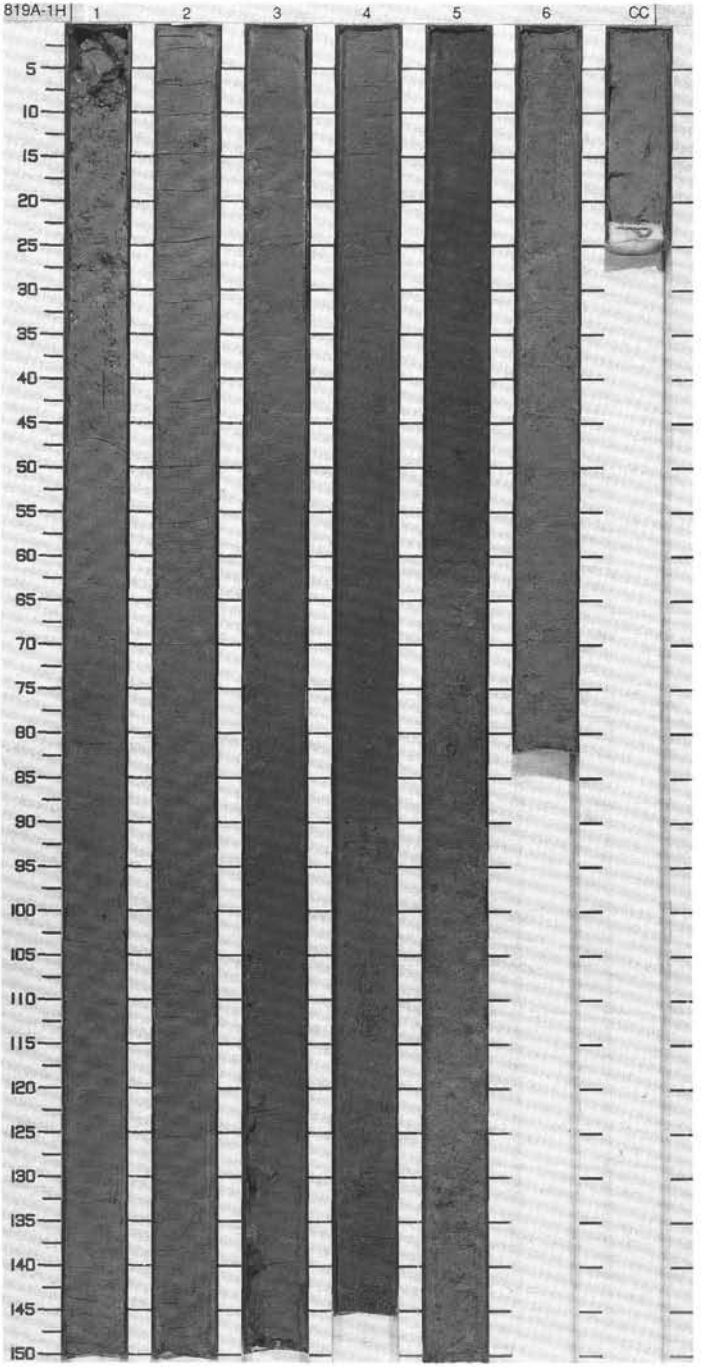
LITHOLOGIC DESCRIPTION

CLAYEY OOZE, CLAYEY NANNOFOSSIL OOZE to CLAYEY PTEROPOD NANNOFOSSIL OOZE with FORAMINIFERS

Major lithology: Section 1 contains a CLAYEY PTEROPOD NANNOFOSSIL OOZE with FORAMINIFERS. The color change is gradational from olive gray (5GY 5/2) to dark gray (5Y 4/1), whereas the burrow infillings are olive (5Y 5/3) colored. A CLAYEY OOZE occurs in Section 2, slightly mottled. *Pteropod* shells are less abundant. CLAYEY NANNOFOSSIL OOZE occurs in Section 3, Section 4, 0-90 cm, and in Section 5. More than 10% *Pteropods* in this sediment was noted in Section 5, 20-60 cm, in Section 6 and in the core catcher. In Section 4, 90-144 cm an olive (5Y 4/3) CLAYEY PTEROPOD NANNOFOSSIL OOZE occurs.

SMEAR SLIDE SUMMARY (%):

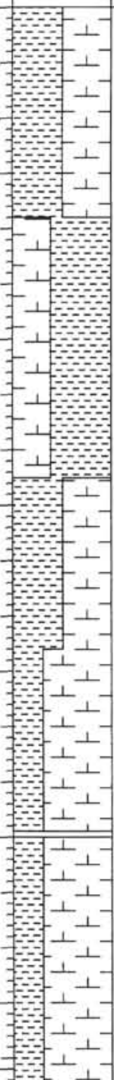
	1, 100 D	3, 110 D
COMPOSITION:		
Clay	30	30
Feldspar	---	2
Foraminifers	---	6
Inorganic calcite	15	5
Nannofossils	40	40
Pteropod	10	---
Quartz	5	8
Tunicate	---	4



SITE 819 HOLE A CORE 2H CORED INTERVAL 8.5-18.0 mbsf

TIME-ROCK UNIT	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	SAMPLES
PLEISTOCENE	N22 - N23	CN15				● 59.6% 1.70	● 54.8%	1	0.5, 1.0	
					N	● 65.4% 1.69	● 38.3%	2		
					N	● 64.9% 1.67	● 41.0%	3		
					N	● 64.4% 1.68	● 50.5%	4		
					N	● 58.1% 1.79	● 73.9% ● 72.8%	5		IW
					N	● 58.0% 1.83	● 72.7%	6		
					N			7		
	A/G	A/G						CC		PAL

GRAPHIC LITHOLOGY

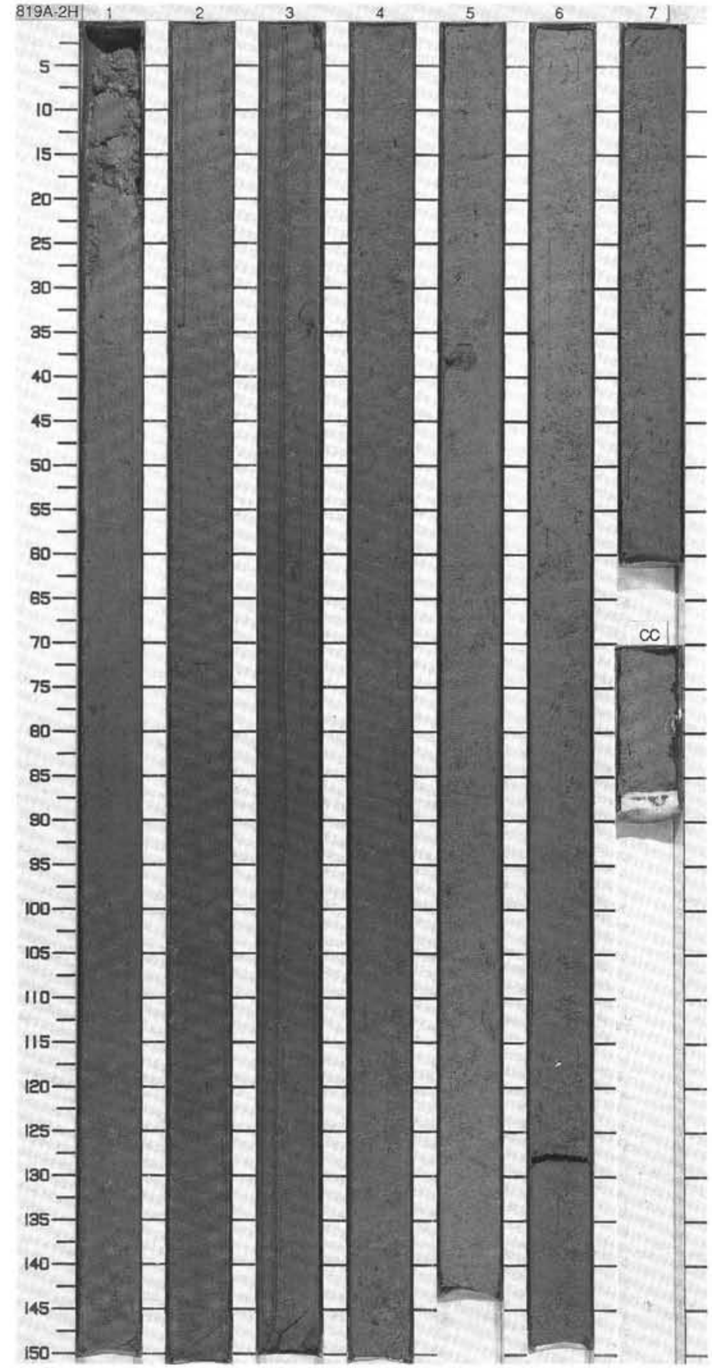


DRILLING DISTURB. / SED. STRUCTURES

LITHOLOGIC DESCRIPTION

CLAYEY NANNOFOSSIL MIXED SEDIMENT to unlithified NANNOFOSSIL CLAYSTONE to CLAYEY NANNOFOSSIL OOZE with PTEROPODS

Major lithology: This core contains a gray (5GY 5/1) CLAYEY NANNOFOSSIL MIXED SEDIMENT in Sections 1 and 4, grading into an unlithified NANNOFOSSIL CLAYSTONE, dark gray (5GY 4/1) in Section 2, to dark green gray (5GY 4/1) in Section 3. The remainder of the core is a relatively homogenous greenish gray (5GY 5/1, 5GY 6/1) CLAYEY NANNOFOSSIL OOZE to olive gray (5GY 4/2) CLAYEY NANNOFOSSIL OOZE with PTEROPODS in Section 7. Color changes are gradational throughout the core. In Section 5, at 65 cm, a coarse layer was noted, with 65% PTEROPODS in the coarse fraction, PLANKTONIC and BENTHIC FORAMINIFERS, small BIVALVES and GASTROPODS, as well as a PHOSPHATE fragment.



SITE 819 HOLE A CORE 3H CORED INTERVAL 18.0-27.5 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
PLEISTOCENE	A/G	CN15			N	58.2% 1.79	68.8%	1	0.5 1.0				
					N	56.1% 1.82	61.8%	2					
					N	61.4% 1.70	40.2%	3					
					N		28.1%	4					
					N	55.3% 1.78	24.9%	5				*	
					N	54.9% 1.82	61.7%	6				OG IW	
					N	44.6%		7					
								CC					PAL

LITHOLOGIC DESCRIPTION

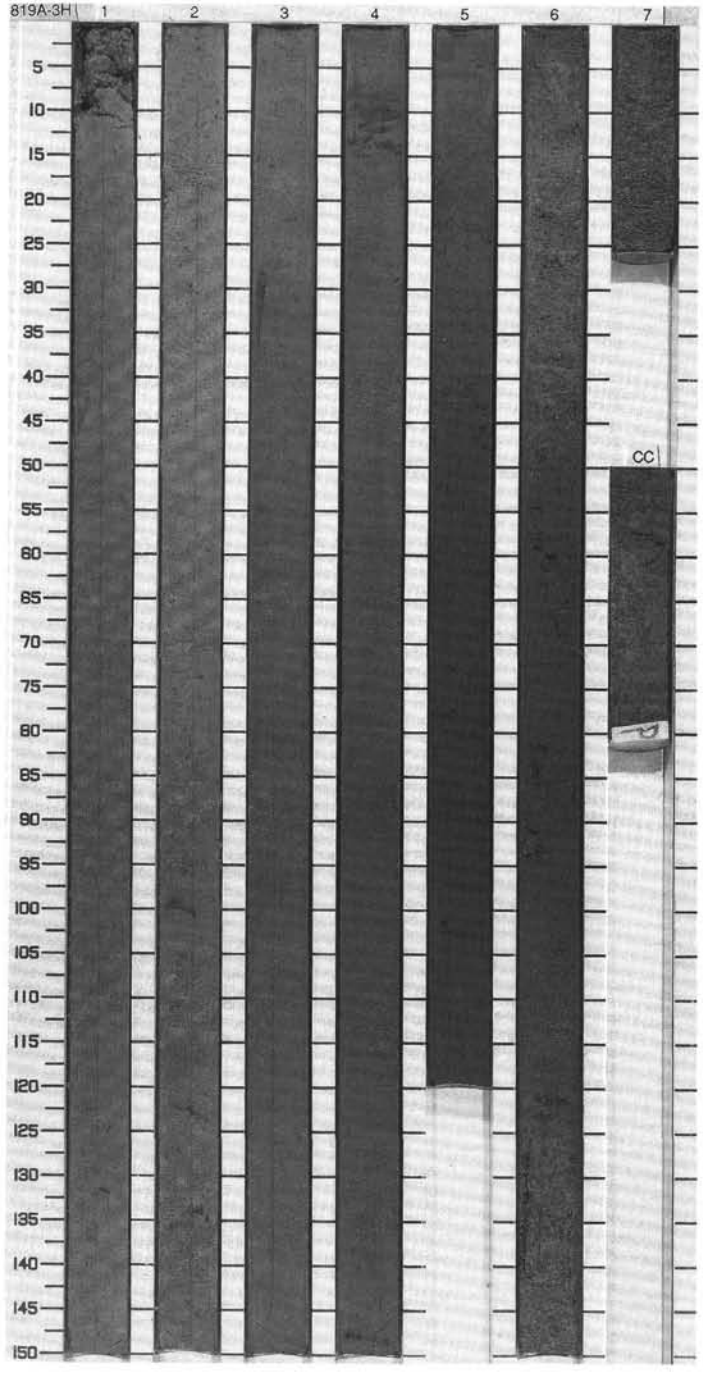
CLAYEY NANNOFOSSIL OOZE to CALCAREOUS CLAYEY MIXED SEDIMENT to CALCAREOUS CLAYSTONE

Major lithology: This core contains greenish gray (5GY 5/1, 5GY 6/1) CLAYEY NANNOFOSSIL OOZE with scattered PTEROPODS in Sections 1 and 2, 0-40 cm. Sections 2, 40-150, and 3, 0-120 cm contain a greenish gray (5GY 7/1 to 5GY 6/1) CALCAREOUS CLAYEY MIXED SEDIMENT. An unlithified CALCAREOUS CLAYSTONE, dark greenish gray (5GY 4/1), occurs in Sections 3, 120-150 cm, 4 and 5. The colors change from Section 1 to 5 gradationally, and become generally darker.

Minor lithology: Greenish gray (5GY 5/1) unlithified PTEROPOD and FORAMINIFER-rich CALCAREOUS CLAYSTONE with minor GASTROPODS and BIVALVES occurs in Section 6, 0-55 and 105-150 cm. A dark greenish grey (5GY 4/1) CALCAREOUS CLAYSTONE with minor GASTROPODS and BIVALVES occurs between 55 and 105 cm; a solitary CORAL (caryophillia-type) at 92 cm.

SMEAR SLIDE SUMMARY (%):

	5, 70 D
COMPOSITION:	
Bioclast	20
Clay	25
Nannofossils	10
Opaques	10
Quartz	20
Rock fragment	15



SITE 819 HOLE A CORE 4H CORED INTERVAL 27.5-37.0 mbsf

TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/ FOSSIL CHARACTER
- FORAMINIFERS: A/G; N22 - N23
- NANNOFOSSILS: A/G; CN14a
- RADIOLARIANS
- DIATOMS

PALEOMAGNETICS: N N N N N N

PHYS. PROPERTIES: ● 48.0% 2.00 | ● 48.8% 1.93 | ● 46.2% 1.97 | ● 58.5% 1.77 | ● 53.2% 1.87 | ● 65.1% 1.75

CHEMISTRY: ● 51.8% | ● 50.0% ● 31.2% | ● 19.1% | ● 58.7% | ● 76.2% | ● 29.8%

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: PAL

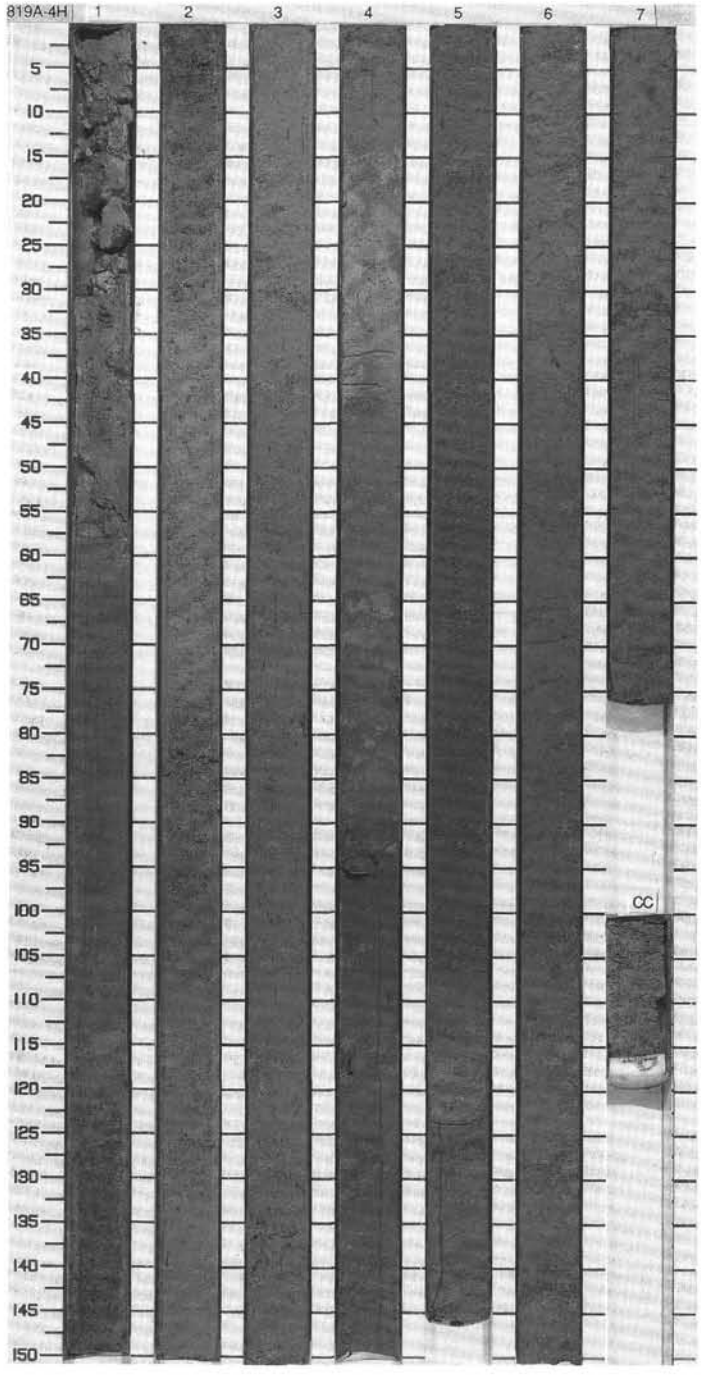
LITHOLOGIC DESCRIPTION

CLAYEY NANNOFOSSIL OOZE to PTEROPOD CLAYEY NANNOFOSSIL OOZE with FORAMINIFERSto CALCAREOUS CLAYSTONE

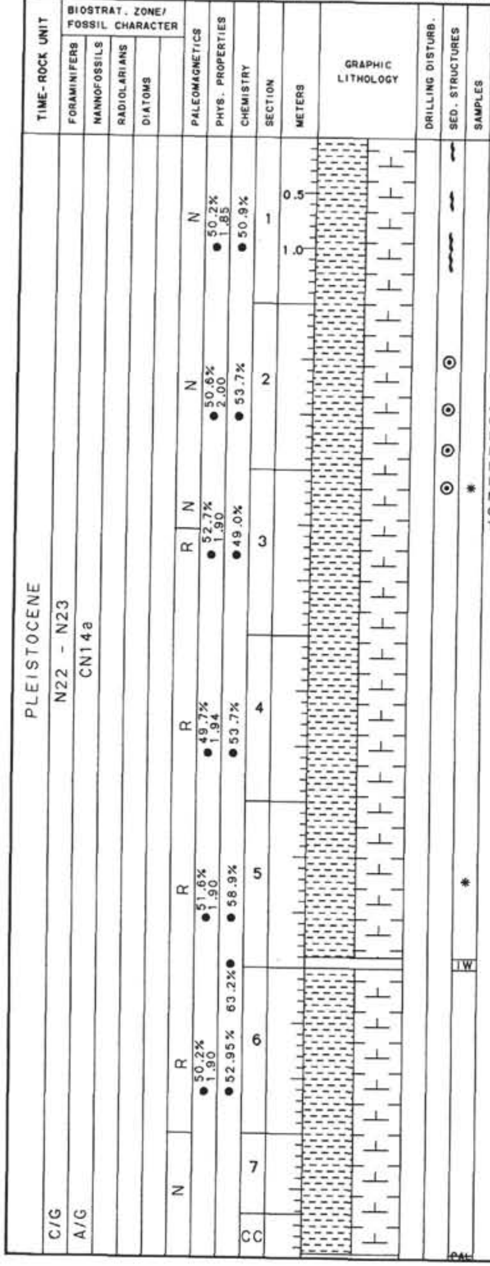
Major lithology: This core contains CLAYEY NANNOFOSSIL OOZE, dark greenish gray (5GY 4/1), in Section 1, 0-55 cm, Section 2, and Section 7. A CLAYEY PTEROPOD NANNOFOSSIL OOZE, greenish gray (5GY 5/1), occurs in Section 3. Some PTEROPOD-rich layers seem to be infilled burrows. Greenish gray (5GY 5/1) to dark greenish gray (5GY 4/1) unlithified CALCAREOUS CLAYSTONE occurs in Section 1, 55 to 130 cm, Section 2, 125-150 cm and in Sections 4 and 5. In Section 4, 60-90 cm, redeposited or slumped layers were noted. Indurated CALCITE and DOLOMITE nodules occur at 95 and 125 cm.

SMEAR SLIDE SUMMARY (%):

	2, 37 D	4, 95 D	4, 112 D
COMPOSITION:			
Clay	---	---	20
Dolomite	7	---	---
Feldspar	---	25	---
Foraminifers	10	---	8
Inorganic calcite	25	75	5
Nannofossils	50	---	39
Pyrite	---	---	5
Quartz	5	---	15
Tunicate	3	---	3



SITE 819 HOLE A CORE 5H CORED INTERVAL 37.0-46.5 mbsf



LITHOLOGIC DESCRIPTION

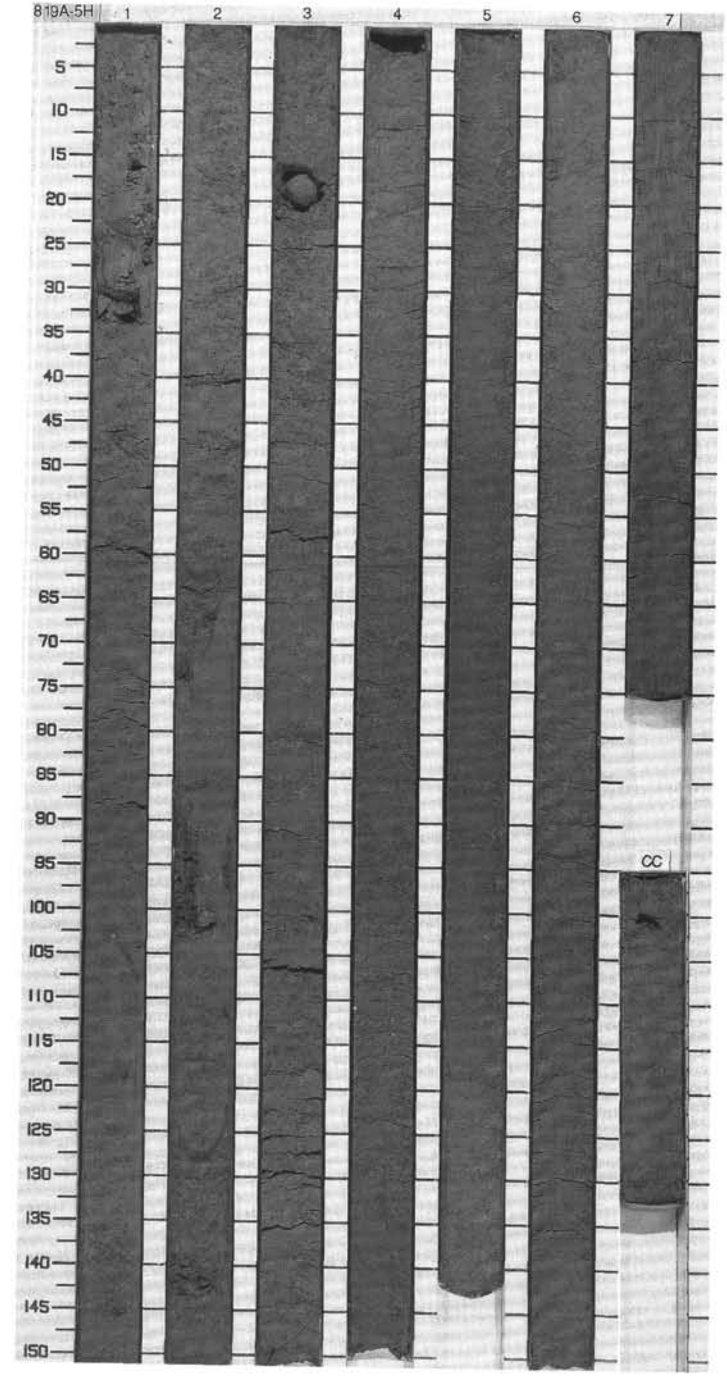
CLAYEY NANNOFOSSIL MIXED SEDIMENT

Major lithology: This core contains greenish gray (5GY 5/1), homogeneous CLAYEY NANNOFOSSIL MIXED SEDIMENT with minor amounts of QUARTZ. Bioturbation is of minor importance throughout the core. In Section 1 light burrow mottling with silt infillings occurs.

Minor Lithology: "Chalky" patches and layers, rich in DOLOMITE occur in the lower half of Section 2 and the upper part of Section 3.

SMEAR SLIDE SUMMARY (%):

	3, 17 M	5, 70 D
COMPOSITION:		
Apatite	---	1
Clay	---	25
Dolomite	80	---
Foraminifers	---	6
Inorganic calcite	20	5
Intraclasts	---	9
Nannofossils	---	45
Quartz	---	6
Tunicate	---	3



SITE 819 HOLE A CORE 6H CORED INTERVAL 46.5-56.0 mbsf

TIME-ROCK UNIT	FORAMINIFERS	NANNOFOSSILS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	SED. STRUCTURES	SAMPLES
PLEISTOCENE	N22 - N23	CN14a	N	● 53.5% ● 1.92	● 41.9%	1		
			N	● 51.9% ● 1.93	● 49.1%	2		
			N	● 50.1% ● 1.95	● 64.7%	3	ɗ ɗ	
			N	● 49.3% ● 1.97	● 67.6%	4	ɗ ɗ	
			N		● 74.3%	5	ɗ	IW
			N	● 48.2% ● 1.97	● 67.6%	6	ɗ ɗ ɗ ɗ	*
	C/G	A/G				CC		PAL

LITHOLOGIC DESCRIPTION

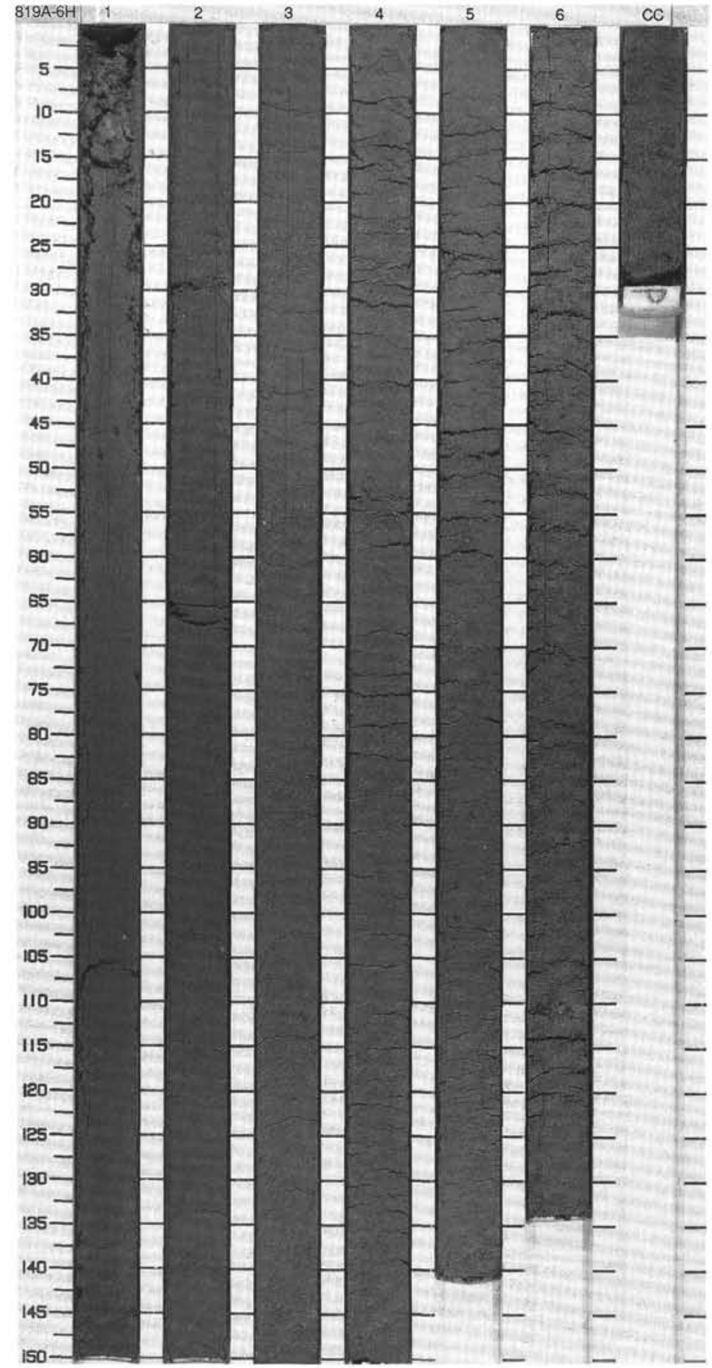
CLAYEY NANNOFOSSIL MIXED SEDIMENT to CLAYEY NANNOFOSSIL OOZE to CLAYEY DOLOMITIC NANNOFOSSIL OOZE with MICRITE INTRACLASTS

Major lithology: This core contains dark greenish gray (5GY 6/1), homogeneous CLAYEY NANNOFOSSIL MIXED SEDIMENT to CLAYEY NANNOFOSSIL OOZE, becoming gradationally greenish gray (5GY 5/1) and siltier downcore. Skeletal debris is very rare in Sections 1-3. In Sections 4 to 6 INTRACLASTS and BIOCLASTS (BIVALVES, BENTHIC and PLANKTONIC FORAMINIFERS and GASTROPODS) occur.

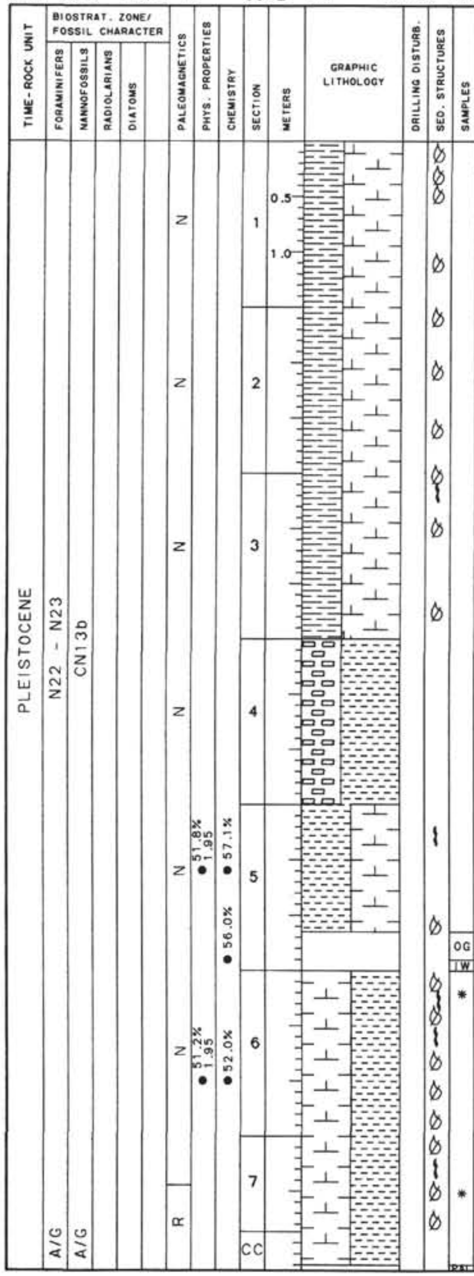
Minor lithology: Greenish gray (5GY 5/1), CLAYEY DOLOMITIC NANNOFOSSIL OOZE with INTRACLASTS occurs in Section 6. BIOCLASTS were also found.

SMEAR SLIDE SUMMARY (%):

	6, 70
	M
COMPOSITION:	
Bioclast	15
Clay	20
Dolomite	22
Intraclasts	3
Nannofossils	30
Quartz	5
Tunicate	5



SITE 819 HOLE A CORE 7H CORED INTERVAL 56.0-65.5 mbsf



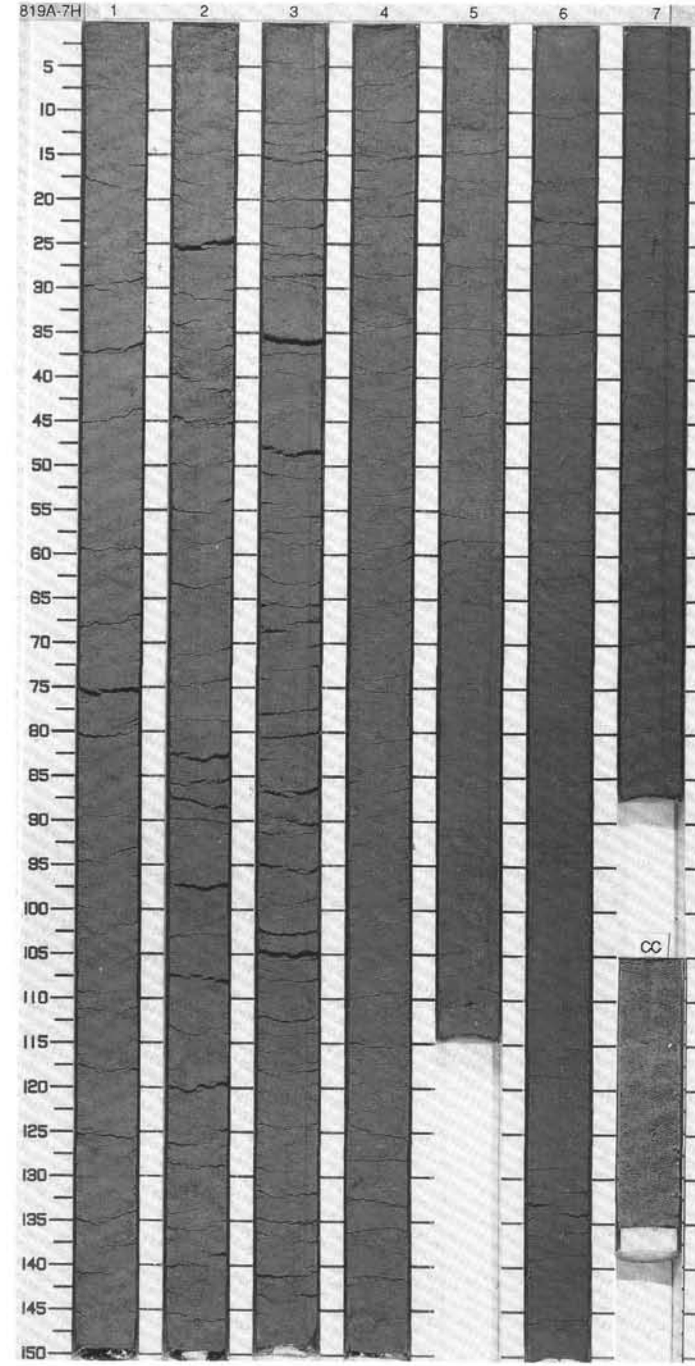
LITHOLOGIC DESCRIPTION

SILTY CLAYEY NANNOFOSSIL OOZE to NANNOFOSSIL CLAYSTONE to CLAYEY NANNOFOSSIL MIXED SEDIMENT

Major lithology: This core contains greenish gray (5GY 6/1: Section 1 to 5GY 5/1 in Section 3) SILTY CLAYEY NANNOFOSSIL OOZE. Sections 2 and 3 show intermediate grays (5GY 5/1). Below, dark greenish gray (5GY 4/1: Sections 5-7), CLAYEY NANNOFOSSIL to NANNOFOSSIL CLAYEY MIXED SEDIMENT occurs. Skeletal debris occurs scattered throughout. Local distinct burrows are filled with siltier material. Some may represent turbidites. In Section 4 occurs an unlithified CALCAREOUS CLAYSTONE, dark greenish gray (5GY 4/1).

SMEAR SLIDE SUMMARY (%):

	6, 21 D	7, 50 D
COMPOSITION:		
Aragonite	5	3
Bioclast	15	15
Clay	20	20
Dolomite	15	---
Feldspar	10	2
Foraminifers	---	8
Intraclasts	---	5
Micrite	---	7
Nannofossils	20	25
Quartz	10	7
Spicules	---	1
Tunicate	Tr	5



SITE 819 HOLE A CORE 8H CORED INTERVAL 65.5-75.0 mbsf

TIME-ROCK UNIT	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLEISTOCENE	N22 - N23	CN13b			R			1	0.5, 1.0	VOID			*
					N	● 49.2%, 1.96	● 40.2%	2					*
					N	● 48.5%, 1.97	● 47.4%	3					
					N	● 47.6%, 1.98	● 50.5%	4					
						● 48.8%, 1.97	● 47.8%						
					N		● 47.6%	5					IW
					N	● 49.1%, 2.01	● 48.2%	6					*
					R	● 51.0%, 1.94	● 43.8%	7					*
								8					
	A/G	A/G						CC					PAL

LITHOLOGIC DESCRIPTION

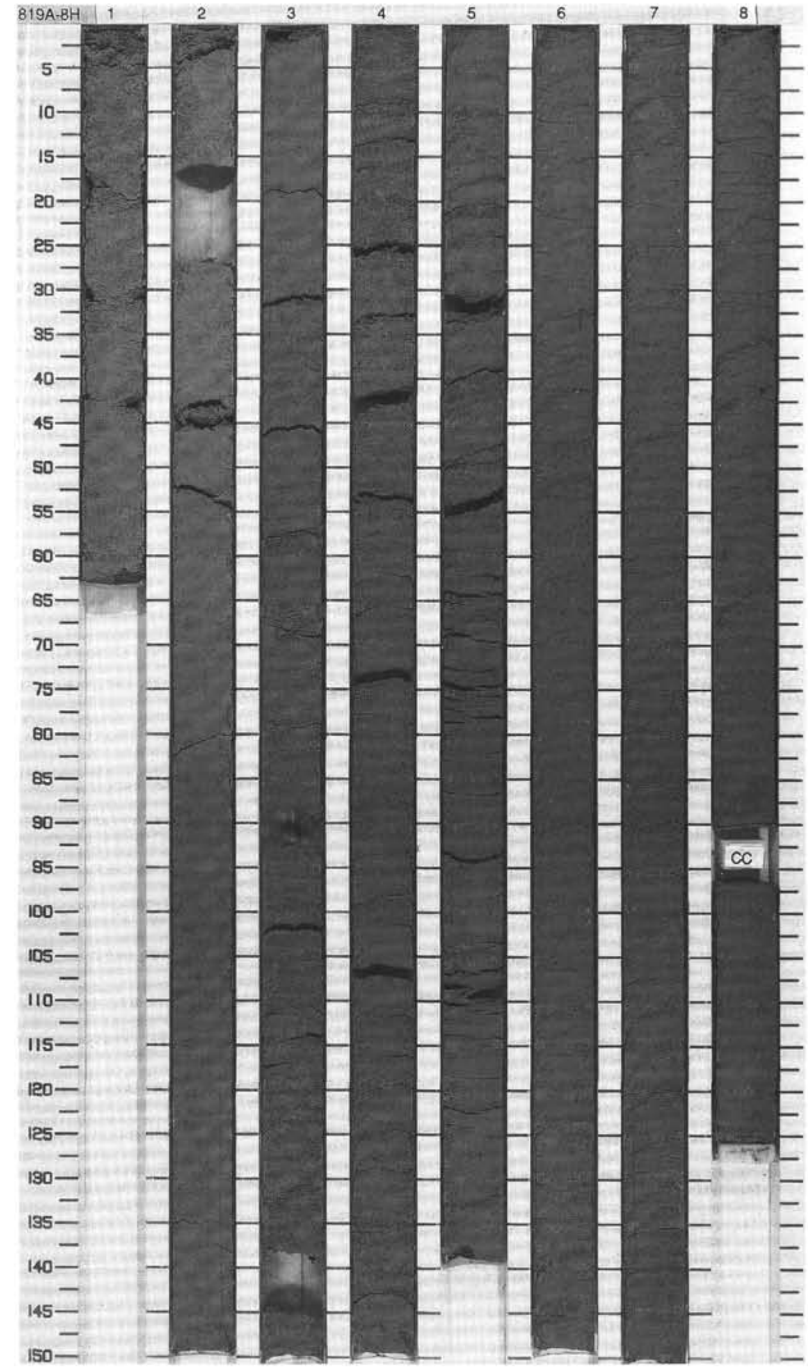
SILTY CLAYEY NANNOFOSSIL MIXED SEDIMENT with BIOCLASTS

Major lithology: Gray (5Y 5/1: Section 1) to dark gray (5Y 4/1: Section 2-CC), SILTY CLAYEY NANNOFOSSIL MIXED SEDIMENT with BIOCLASTS. BIOCLASTS are PTEROPODS, BIVALVES and FORAMINIFERS. Bioturbation is of minor importance and occurs in Sections 2-4. Section 8 is slumped.

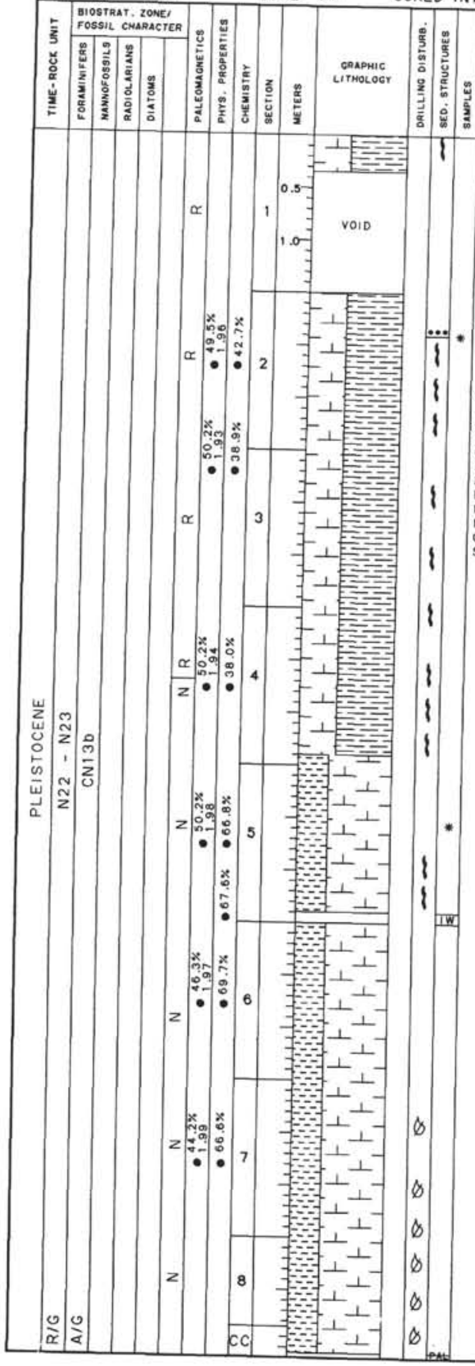
Minor Lithology: Dark gray (5Y 4/1) layers enriched in SILT or FINE SAND and ROCK FRAGMENTS. The layers are up to several centimeters thick and comprise 30% of Section 4, 20% of Section 5, 10% of Section 6 and 5% of Section 7. In Sections 3 and 8 they form only few intercalations, possibly representing TURBIDITES. Voids due to gas expansion occur throughout the core.

SMEAR SLIDE SUMMARY (%):

	1, 20 D	2, 97 D	6, 52 D	7, 104 D
COMPOSITION:				
Aragonite	5	---	5	---
Bioclast	30	20	20	10
Clay	10	10	10	15
Dolomite	---	---	5	5
Feldspar	---	5	---	---
Foraminifers	3	---	---	---
Lithoclast	---	10	---	---
Micrite	10	10	10	20
Nannofossils	30	20	20	40
Quartz	10	20	15	10
Rock fragment	---	---	10	---
Spicules	2	2	---	---
Tunicate	Tr	3	5	---



SITE 819 HOLE A CORE 9H CORED INTERVAL 75.0-84.5 mbsf



LITHOLOGIC DESCRIPTION

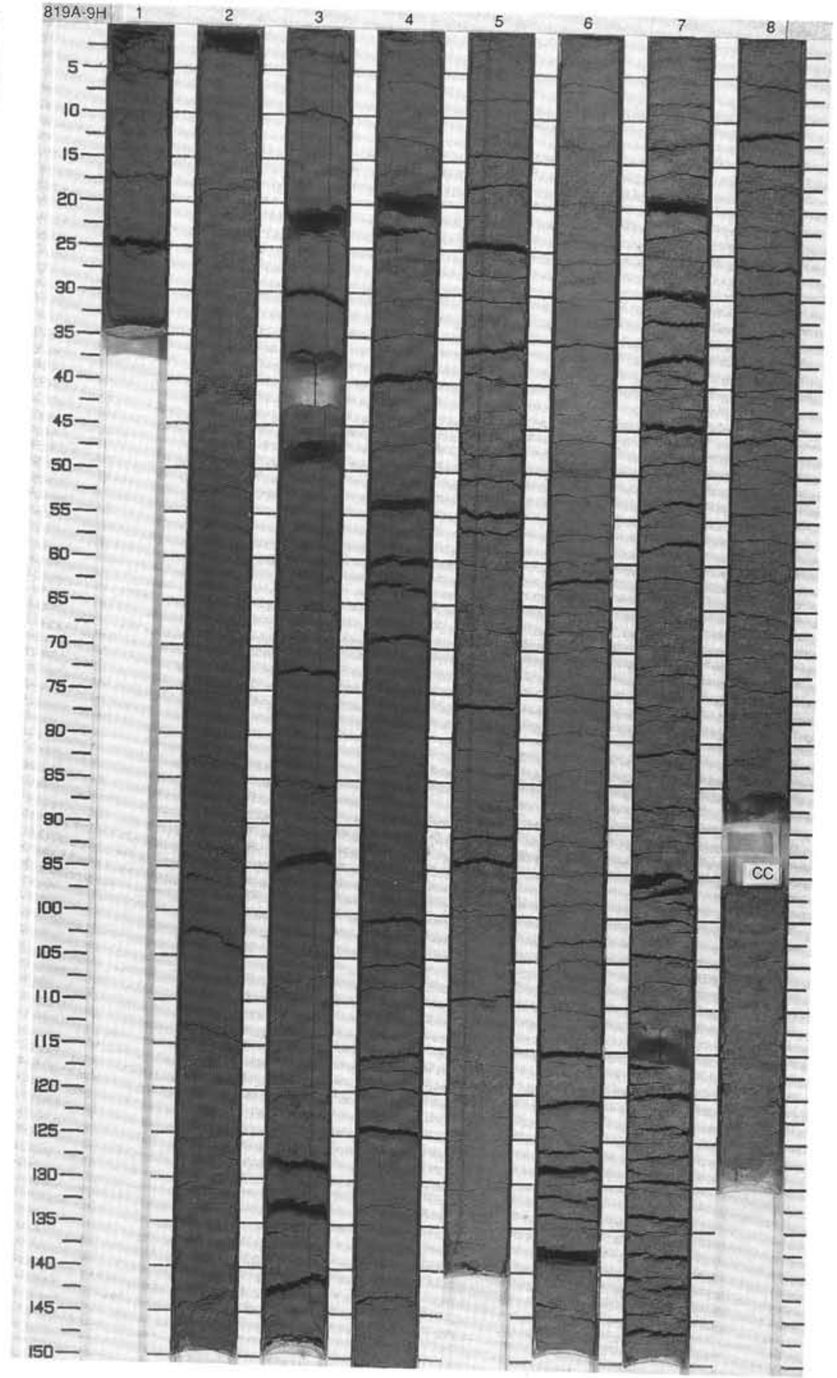
CLAYEY NANNOFOSSIL OOZE with QUARTZ and BIOCLASTS to CLAYEY NANNOFOSSIL OOZE with QUARTZ, BIOCLASTS and LITHOCLASTS

Major lithology: Dark greenish gray (5 GY 4/1) CLAYEY NANNOFOSSIL OOZE with QUARTZ and BIOCLASTS (Section 1-4) to dark gray (5 Y 5/1) CLAYEY NANNOFOSSIL OOZE with QUARTZ, BIOCLASTS and LITHOCLASTS (base of Section 4 to core catcher). Bioturbation and skeletal fragments occur throughout.

Minor lithology: Sandy stringers (maximum thickness 2 cm) intercalated within the major lithology occur in Sections 1-5. Some show normal grading of grain size and may therefore represent turbidites. Voids due to gas expansion occur throughout the core.

SMEAR SLIDE SUMMARY (%):

	2, 40 D	5, 107 D
COMPOSITION:		
Aragonite	---	5
Bioclast	25	15
Clay	15	---
Dolomite	5	5
Foraminifers	5	---
Lithoclast	---	20
Micrite	10	---
Nannofossils	25	40
Quartz	15	10
Spicules	---	5



SITE 819 HOLE A CORE 10H CORED INTERVAL 84.5-94.0 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/G N22 - N23	A/G CN13b			N	N 49.5% 1.95	56.8%	1	0.5 1.0	VOID			
								2					*
					N	N 46.8% 1.98	50.4%	3					
					N	N 48.9% 1.97	38.5%	4					*
					N	N 48.0% 1.95	67.8% 44.7%	5					OG
					N	N 51.7% 1.92	47.6%	6					TW
					N		45.3%	7					*
					N			8					
								CC					PAL

LITHOLOGIC DESCRIPTION

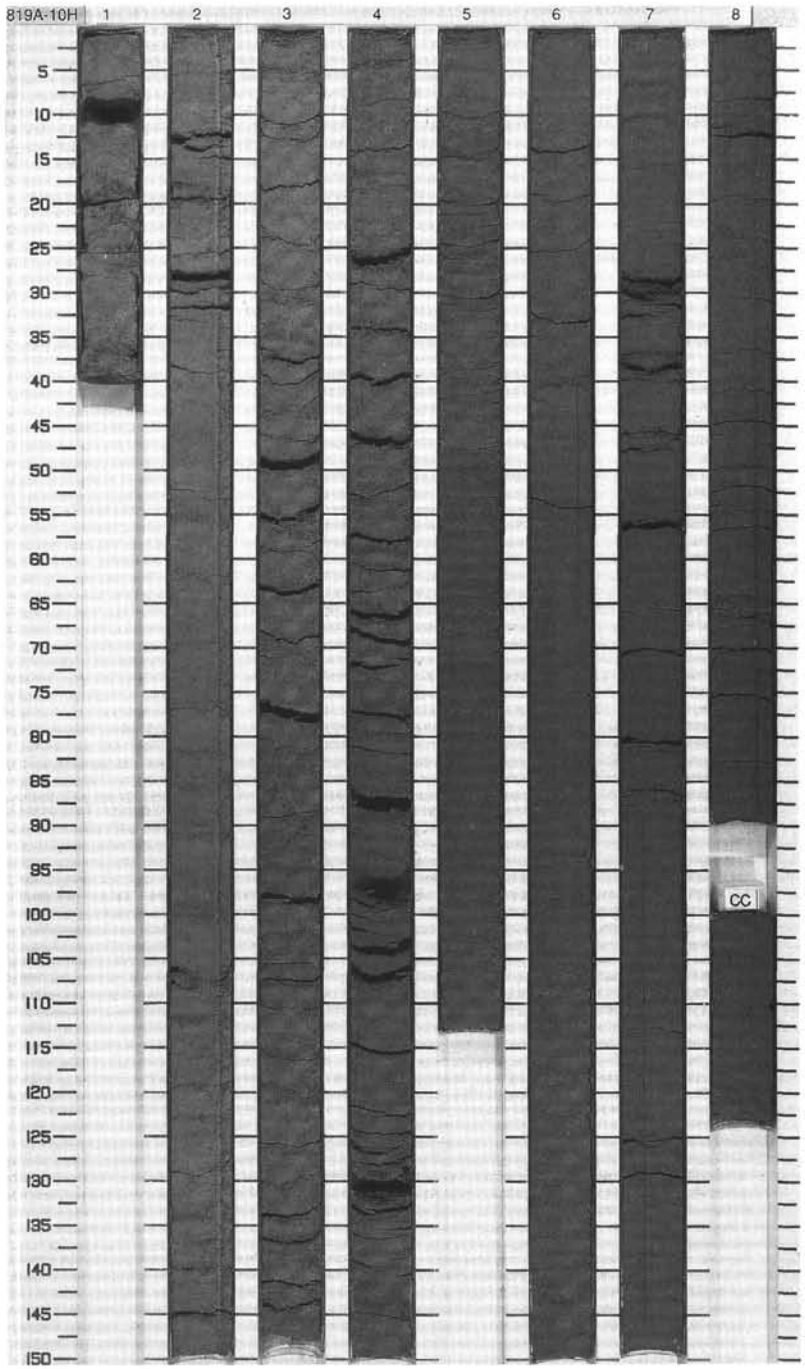
CLAYEY NANNOFOSSIL MIXED SEDIMENT with BIOCLASTS to NANNOFOSSIL CLAYSTONE

Major lithology: CLAYEY NANNOFOSSIL MIXED SEDIMENT with BIOCLASTS to unlithified NANNOFOSSIL CLAYSTONE. The color of the core fluctuates from gray (5Y 5/1) in Sections 1-3 and 6 to dark gray (5Y 4/1) in Sections 4-5 and 7-CC.

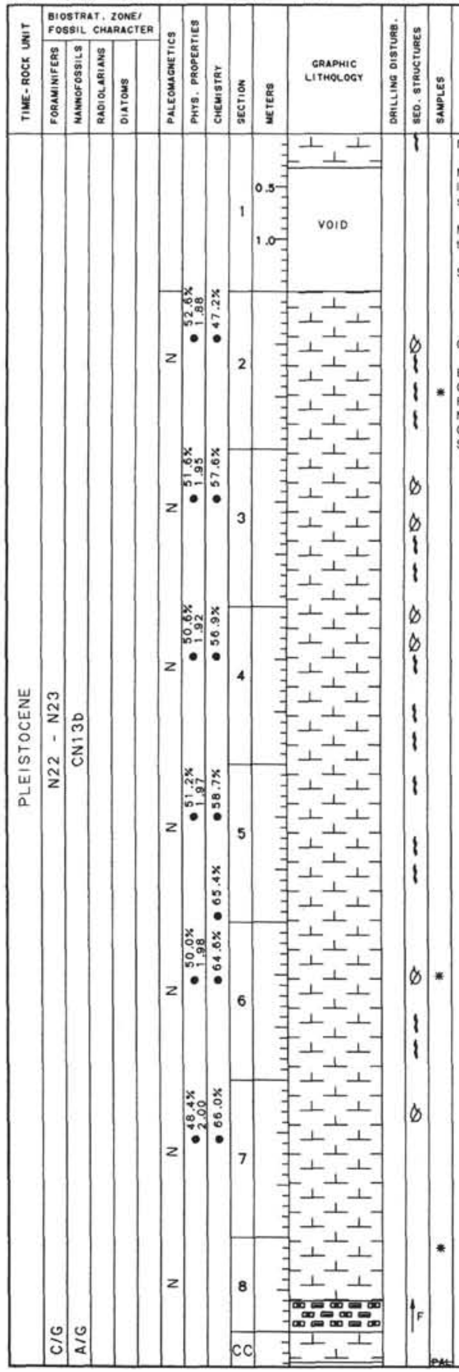
Minor Lithology: Layers of several mm to 2 cm thickness, enriched in skeletal and siliciclastic silt and sand. In Section 4 silty layers are most abundant (20%) in this core. Voids due to gas expansion occur.

SMEAR SLIDE SUMMARY (%):

	2, 120 D	4, 7 M	7, 103 D
COMPOSITION:			
Bioclast	15	10	17
Clay	15	10	10
Foraminifers	---	10	---
Lithoclast	---	12	---
Nannofossils	55	30	45
Opaques	---	---	3
Phosphate	---	---	5
Quartz	5	10	20
Rock fragment	9	10	---
Spicules	---	5	---
Tunicate	1	3	---



SITE 819 HOLE A CORE 11H CORED INTERVAL 94.0-103.5 mbsf



LITHOLOGIC DESCRIPTION

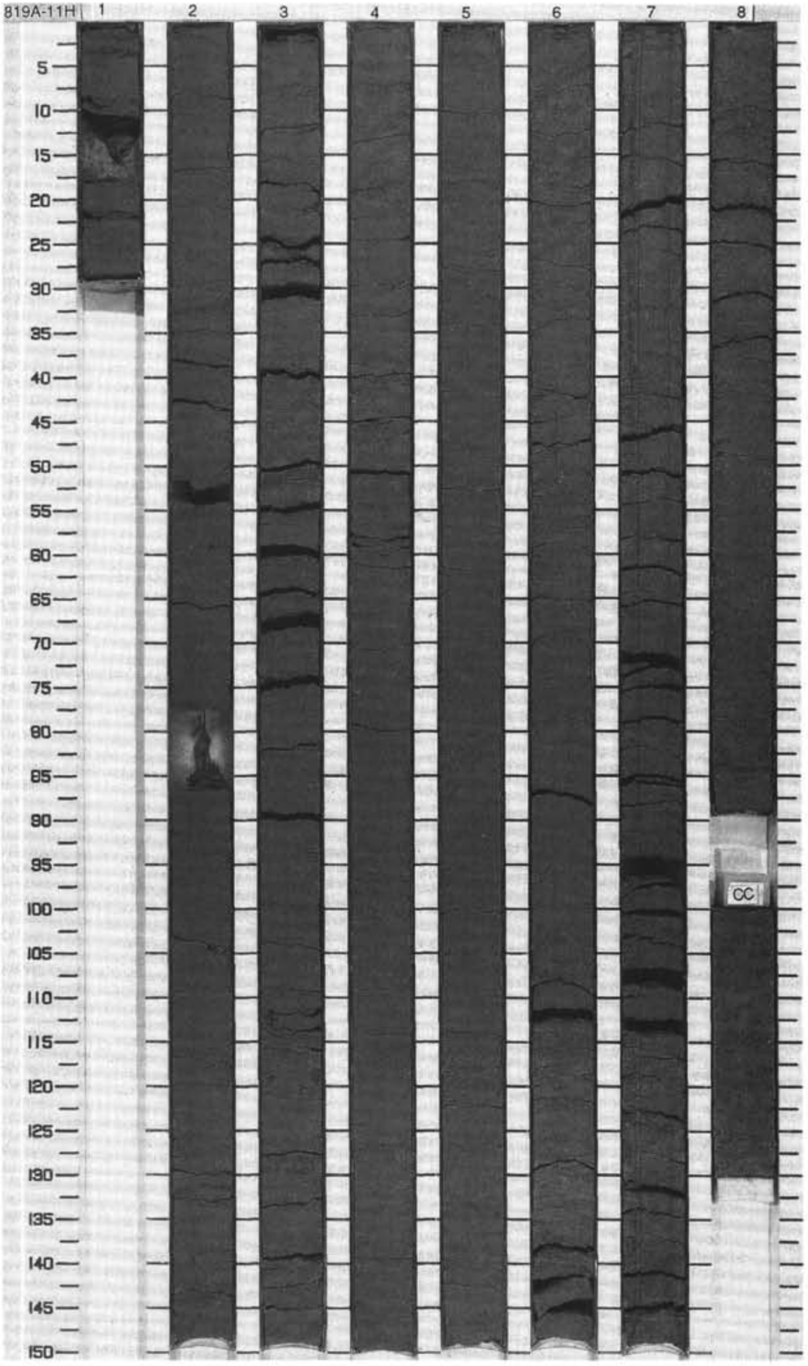
NANNOFOSSIL BIOCLAST OOZE to BIOCLAST NANNOFOSSIL OOZE

Major Lithology: BIOCLAST NANNOFOSSIL OOZE, dark gray (5Y 4/1) in Sections 1-2 and light olive gray (5Y 6/2) in Sections 3-CC. The latter are richer in silt. BIOCLASTS are scattered throughout. Bioturbation is minor.

Minor Lithology: SILTY to SANDY layers of 1-2 cm thickness occur in Section 1-5. Voids due to gas expansion occur.

SMEAR SLIDE SUMMARY (%):

	2, 89 D	6, 51 D	8, 10 D
COMPOSITION:			
Bioclast	35	30	15
Clay	10	10	10
Foraminifers	3	5	---
Nannofossils	32	50	45
Quartz	15	5	25
Spicules	---	---	5



SITE 819 HOLE A CORE 12H CORED INTERVAL 103.5-111.0 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	N22 - N23	CN13b			N	46.9% 2.00	57.1%	1	0.5 1.0	VOID			*
	C/G	A/M			N	44.3% 1.98	54.5%	2		VOID			
					N	46.3% 2.06	68.1%	3		VOID			*
					N	48.4% 1.98	65.3%	4		VOID			
					N	51.4% 2.00	65.0%	5					
								CC					PAL

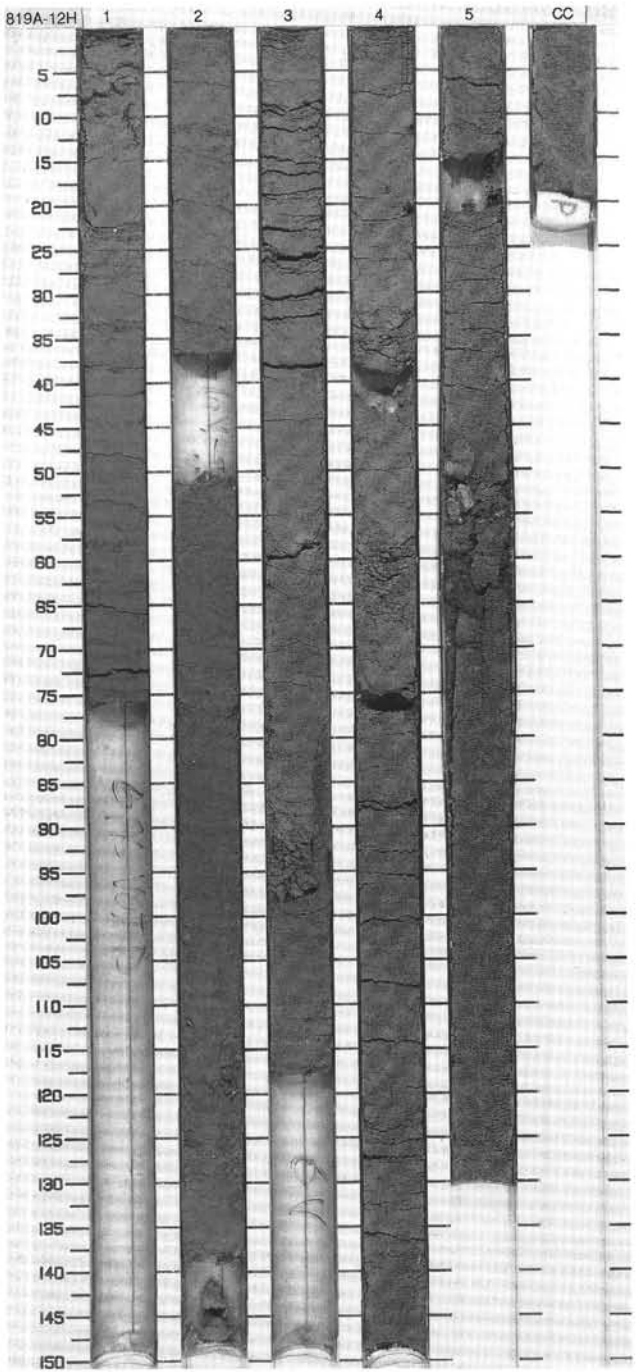
LITHOLOGIC DESCRIPTION

BIOCLAST OOZE with SILICICLASTICS and NANNOFOSSILS to NANNOFOSSIL OOZE with BIOCLASTS and CLAY

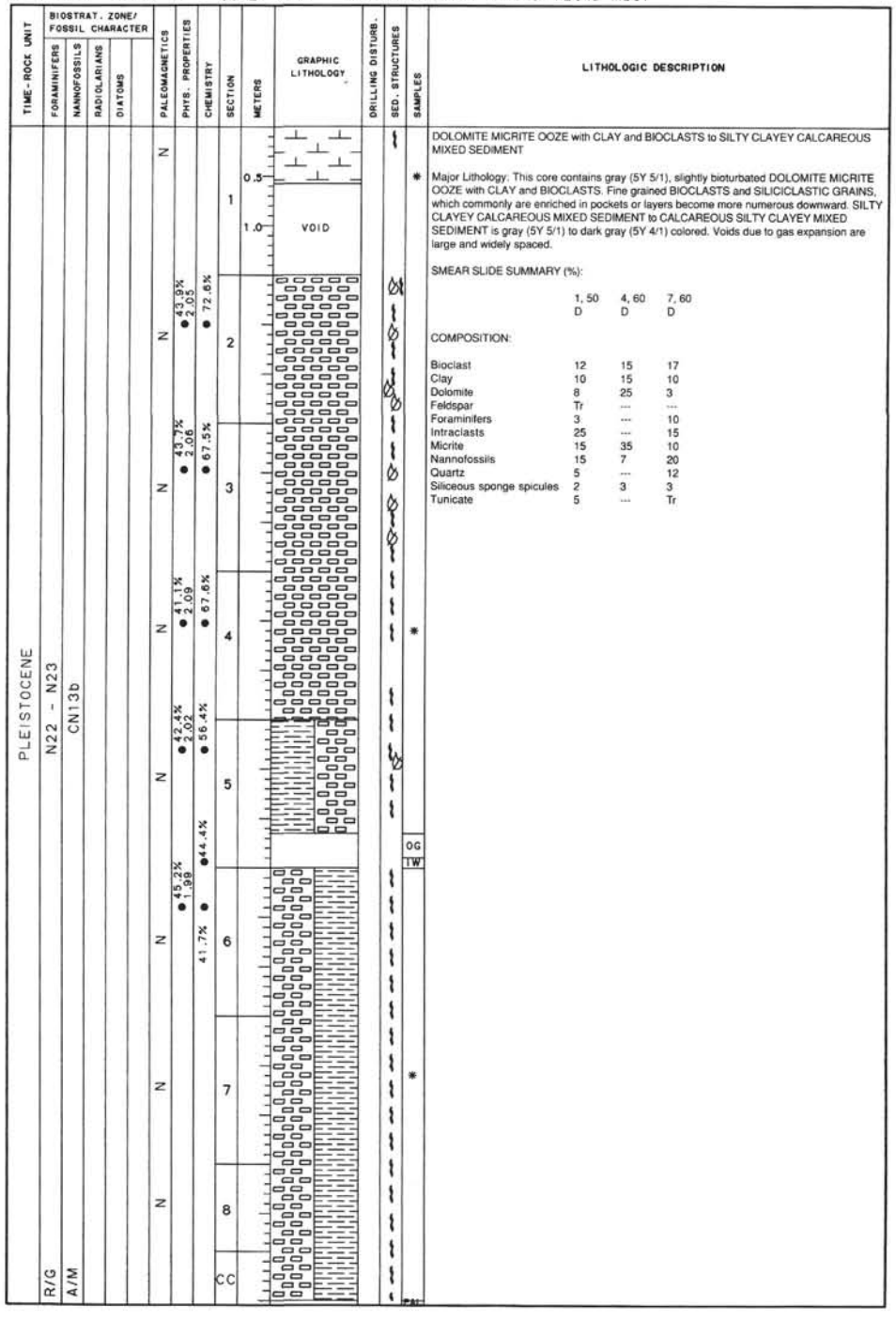
Major lithology: BIOCLAST OOZE with SILICICLASTICS and NANNOFOSSILS to NANNOFOSSIL OOZE with BIOCLASTS and CLAY. CHALK NODULES and BIOCLASTS occur throughout. The color changes from greenish gray (5GY 5/1) in Section 1 to dark gray (5Y 4/1) in Section 2 and to gray (N5 and 5Y 5/1) in Section 3 and 4-CC respectively. Voids due to gas expansion occur.

SMEAR SLIDE SUMMARY (%):

	1, 40 D	3, 46 D
COMPOSITION:		
Bioclast	35	10
Clay	15	15
Feldspar	5	---
Foraminifers	5	5
Lithoclast	---	15
Nannofossils	20	40
Quartz	15	10
Spicules	Tr	---
Tunicate	5	5



SITE 819 HOLE A CORE 13H CORED INTERVAL 111.0-120.5 mbsf

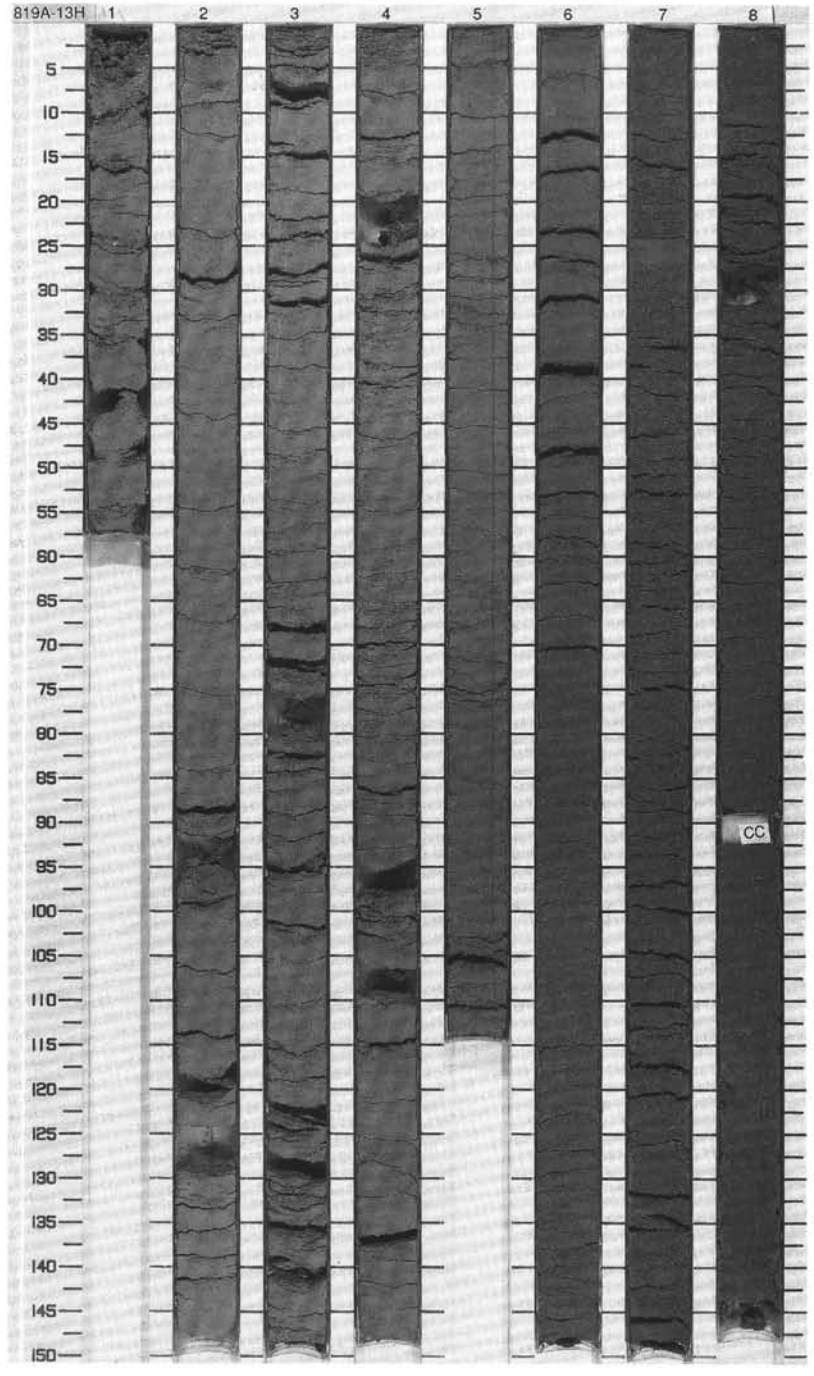


DOLOMITE MICRITE OOZE with CLAY and BIOCLASTS to SILTY CLAYEY CALCAREOUS MIXED SEDIMENT

Major Lithology: This core contains gray (5Y 5/1), slightly bioturbated DOLOMITE MICRITE OOZE with CLAY and BIOCLASTS. Fine grained BIOCLASTS and SILICICLASTIC GRAINS, which commonly are enriched in pockets or layers become more numerous downward. SILTY CLAYEY CALCAREOUS MIXED SEDIMENT to CALCAREOUS SILTY CLAYEY MIXED SEDIMENT is gray (5Y 5/1) to dark gray (5Y 4/1) colored. Voids due to gas expansion are large and widely spaced.

SMEAR SLIDE SUMMARY (%):

	1, 50 D	4, 60 D	7, 60 D
COMPOSITION:			
Bioclast	12	15	17
Clay	10	15	10
Dolomite	8	25	3
Feldspar	Tr	---	---
Foraminifers	3	---	10
Intraclasts	25	---	15
Micrite	15	35	10
Nannofossils	15	7	20
Quartz	5	---	12
Siliceous sponge spicules	2	3	3
Tunicate	5	---	Tr



SITE 819 HOLE A CORE 14H CORED INTERVAL 120.5-123.0 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	R/G	A/G			UNCERTAIN POLARITY	● 46.9% ● 1.98	● 51.1%	1	0.5 1.0		○ ○	~ ~ ~	*
	N22 - N23	CN13b						2		VOID		⊙	
					UNCERTAIN POLARITY			3		VOID	○ ○ ○		
								4					*

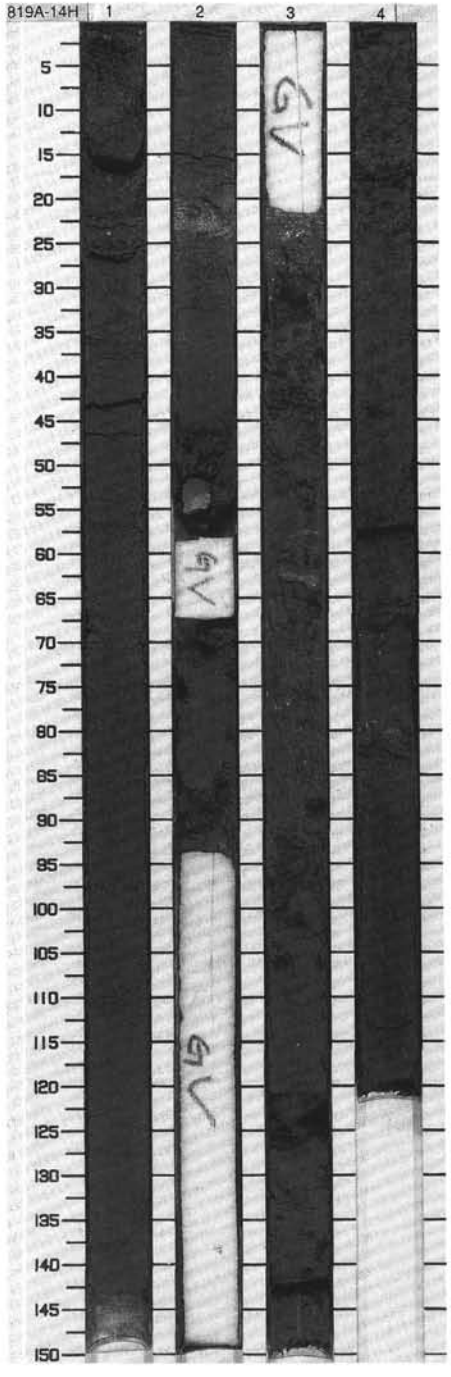
LITHOLOGIC DESCRIPTION

CLAYEY SILTY CALCAREOUS MIXED SEDIMENT with INTRACLASTS

Major Lithology: Dark gray (5Y 4/1), homogeneous CLAYEY SILTY CALCAREOUS MIXED SEDIMENT with INTRACLASTS. Gray (5Y 5/1) mottles of SILT occur. One articulated BIVALVE was found. Locally (Section 1, 68 cm, Section 2 at 52 cm) the weak to soft core is indurated into dense chalk.

SMEAR SLIDE SUMMARY (%):

	1, 64 D	4, 101 D
COMPOSITION:		
Bioclast	10	26
Clay	10	10
Dolomite	3	---
Foraminifers	5	5
Intraclasts	25	22
Micrite	20	15
Nannofossils	15	10
Quartz	5	5
Siliceous sponge spicules	1	2
Tunicate	5	5



SITE 819 HOLE A CORE 15X CORED INTERVAL 123.0-130.4 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	R/P N22 - N23	A/M CN13b			N	N	● 58.8%●	1	0.5				*
						● 48.8%● 1.85			1.0				
						● 47.9% 1.99	● 66.0%						*
					R	● 47.9% 1.97	● 72.4%	2					
						● 47.3% 1.98	● 52.0%	3					
					N	● 44.5% 2.01	● 67.4%	4					*
					N			5					
								CC					PAL

LITHOLOGIC DESCRIPTION

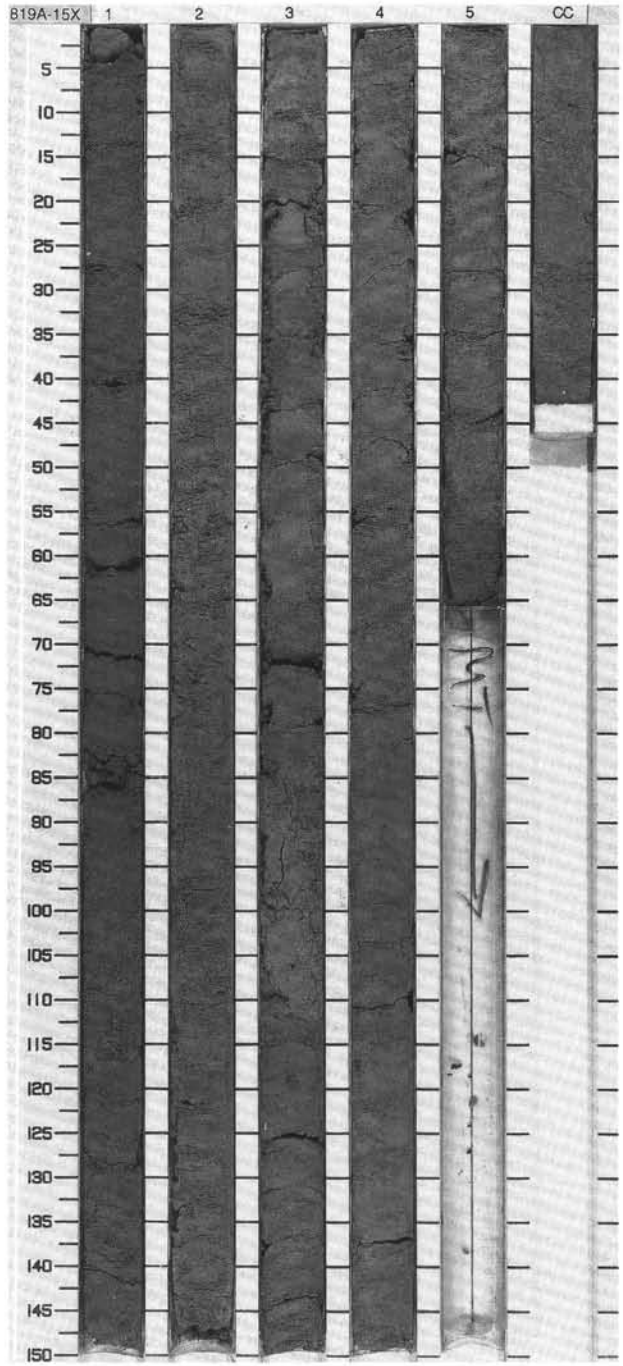
CLAYEY NANNOFOSSILS OOZE to CLAYEY CALCAREOUS OOZE with NANNOFOSSILS. BIOCLASTS and LITHOCLASTS

Major lithology: Gray (5Y 5/1) firm and homogeneous. CLAYEY NANNOFOSSIL OOZE or CLAYEY CALCAREOUS OOZE with NANNOFOSSILS, BIOCLASTS and LITHOCLASTS.

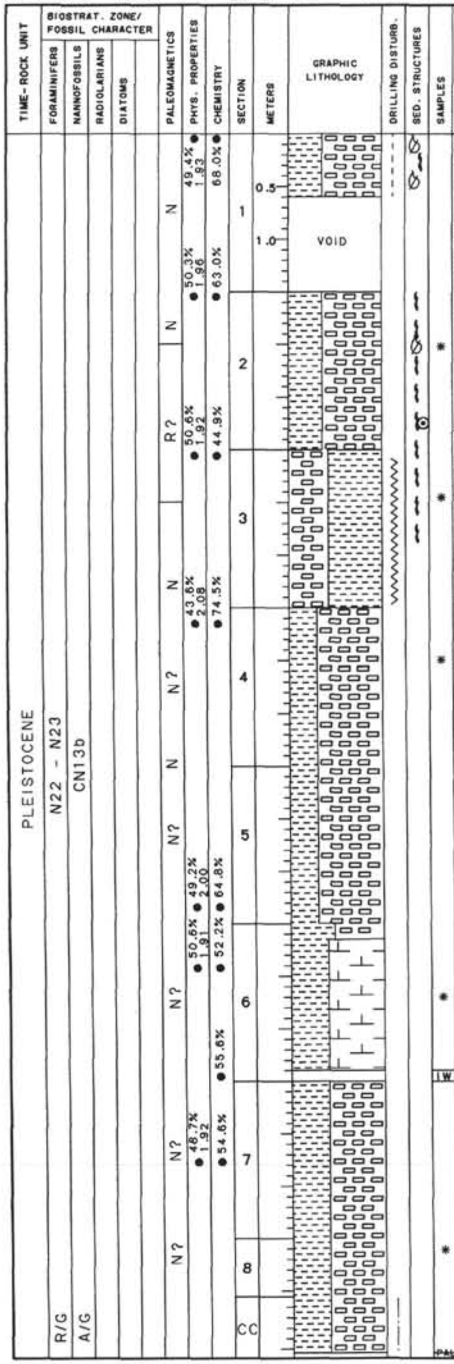
Minor Lithology: Dark gray (5Y 4/1), firm CALCAREOUS OOZE with BIOCLASTS occurs in Section 1 (0-90cm). Alternation of compact and loosened layers is drilling disturbance.

SMEAR SLIDE SUMMARY (%):

	1, 23 D	1, 117 D	4, 90 D
COMPOSITION:			
Bioclast	20	10	15
Clay	10	10	10
Dolomite	5	---	5
Feldspar	---	3	2
Foraminifers	10	5	10
Intraclasts	15	10	14
Micrite	15	13	10
Nannofossils	10	30	20
Quartz	5	7	5
Rock fragment	2	---	---
Siliceous sponge spicules	3	5	2
Tunicate	5	7	5



SITE 819 HOLE A CORE 16X CORED INTERVAL 130.4-140.1 mbsf



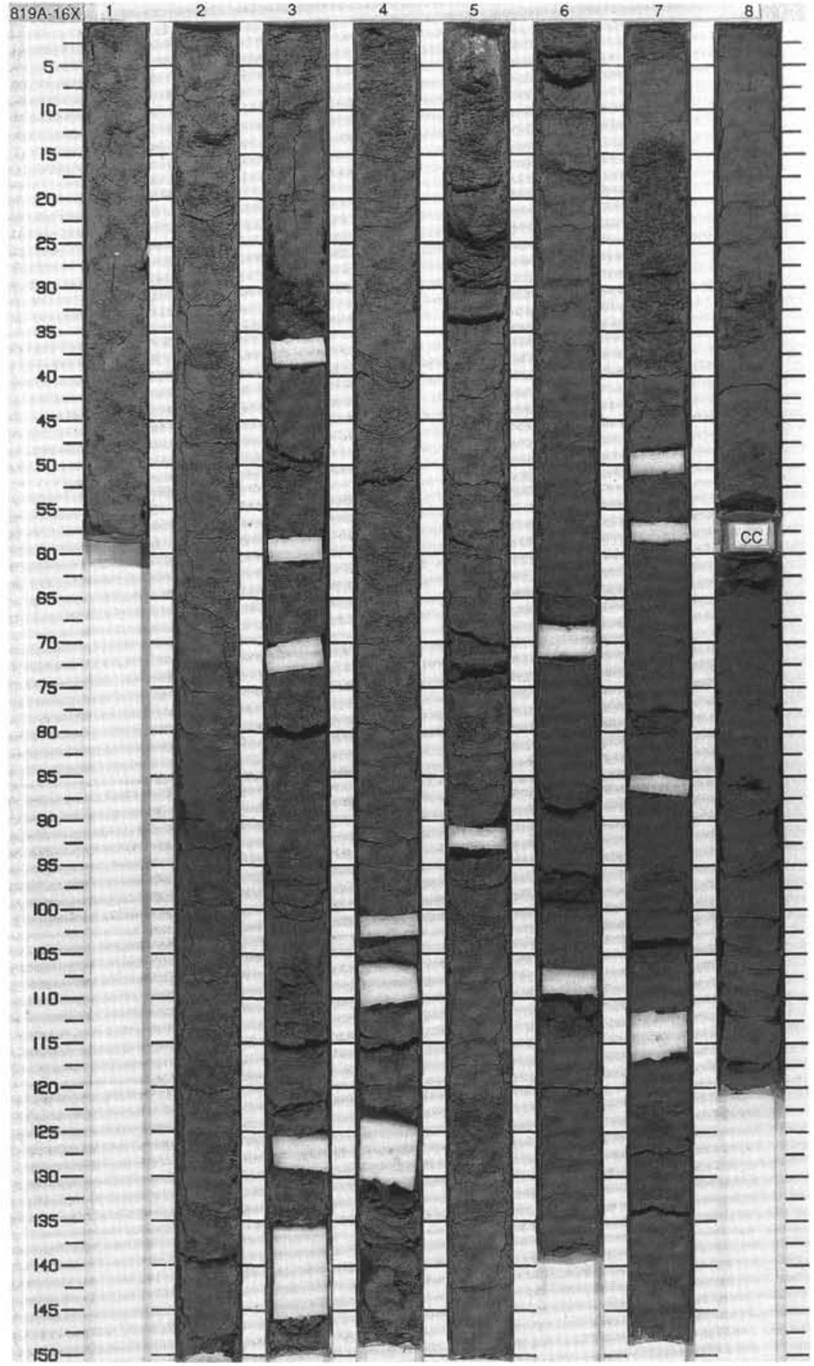
LITHOLOGIC DESCRIPTION

CLAYEY CALCAREOUS OOZE to CLAYEY NANNOFOSSIL OOZE to CALCAREOUS CLAYEY MIXED SEDIMENT with DOLOMITE

Major lithology: This core contains gray (5Y 5/1) MICRITE CLAYEY OOZE in Sections 1 and 2. CALCAREOUS CLAYEY MIXED SEDIMENT with DOLOMITE, greenish gray (5Y 5/1), occurs in Sections 3 and 8, without dolomite in Section 8. In Sections 4 and 5, a CLAYEY CALCAREOUS OOZE occurs. Finely broken shell fragments (BIVALVES) were noted in the upper few centimeters of Section 4. CLAYEY NANNOFOSSIL OOZE with QUARTZ and BIOCLASTS was recovered in Section 6, 0-12 cm. The remaining part of Section 6 is a CLAYEY NANNOFOSSIL OOZE with thin silty to fine sandy patches, being burrow infillings. In Section 7 this ooze has <10% BIOCLASTS. CALCAREOUS CLAYEY OOZE with INTRACLASTS, dark gray (5Y 4/1) occurs in Section 3, 140-150 cm, and in Section 4, 0-60 cm. CALCAREOUS CLAY with QUARTZ and BIOCLASTS, dark greenish gray (5GY 4/1) occurs in the core catcher.

SMEAR SLIDE SUMMARY (%):

	2, 54 D	3, 46 D	4, 49 D	6, 70 D	8, 10 D
COMPOSITION:					
Bioclast	10	10	6	14	20
Clay	10	10	10	15	15
Dolomite	---	5	20	---	---
Feldspar	2	2	1	Tr	---
Foraminifers	10	3	5	---	---
Intraclasts	10	17	10	---	---
Lithoclast	---	---	---	5	5
Micrite	30	20	30	---	20
Nannofossils	15	15	10	43	20
Quartz	4	8	3	10	15
Siliceous sponge spicules	---	---	---	5	---
Spicules	---	---	---	3	2
Tunicate	5	5	5	5	3



SITE 819 HOLE A CORE 17X CORED INTERVAL 140.1-149.7 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	R/G N22 - N23	A/G CN13b			UNCERTAIN POLARITY	43.0% ● 2.14 ● 54.7% ● 62.4%		1	0.5 1.0			F	OG PAL
								2					
								CC					

LITHOLOGIC DESCRIPTION

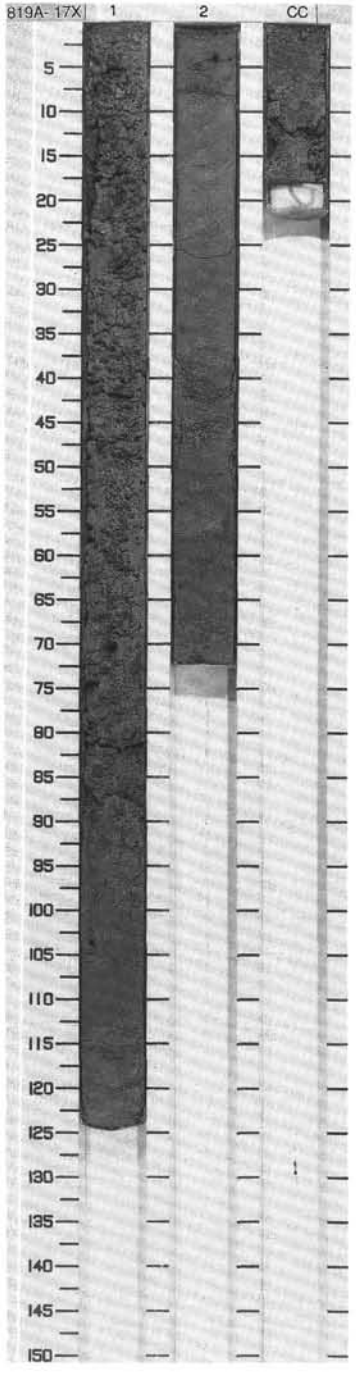
CLAYEY MICRITE MIXED SEDIMENT to MICRITE CLAYEY MIXED SEDIMENT

Major Lithology: Greenish gray (5GY 5/1) MICRITE CLAYEY MIXED SEDIMENT or CLAYEY MICRITE MIXED SEDIMENT with rhythmical bedding (2 cm cycles) in Section 2, 0-40 cm. Detrital DOLOMITE occurs.

Minor Lithology: Dark greenish gray (5GY 4/1) MICRITE CLAYEY OOZE with NANNOFOSSILS occurs in Section 2, 45-62 cm. Siltier beds with lighter color and normal grading occur.

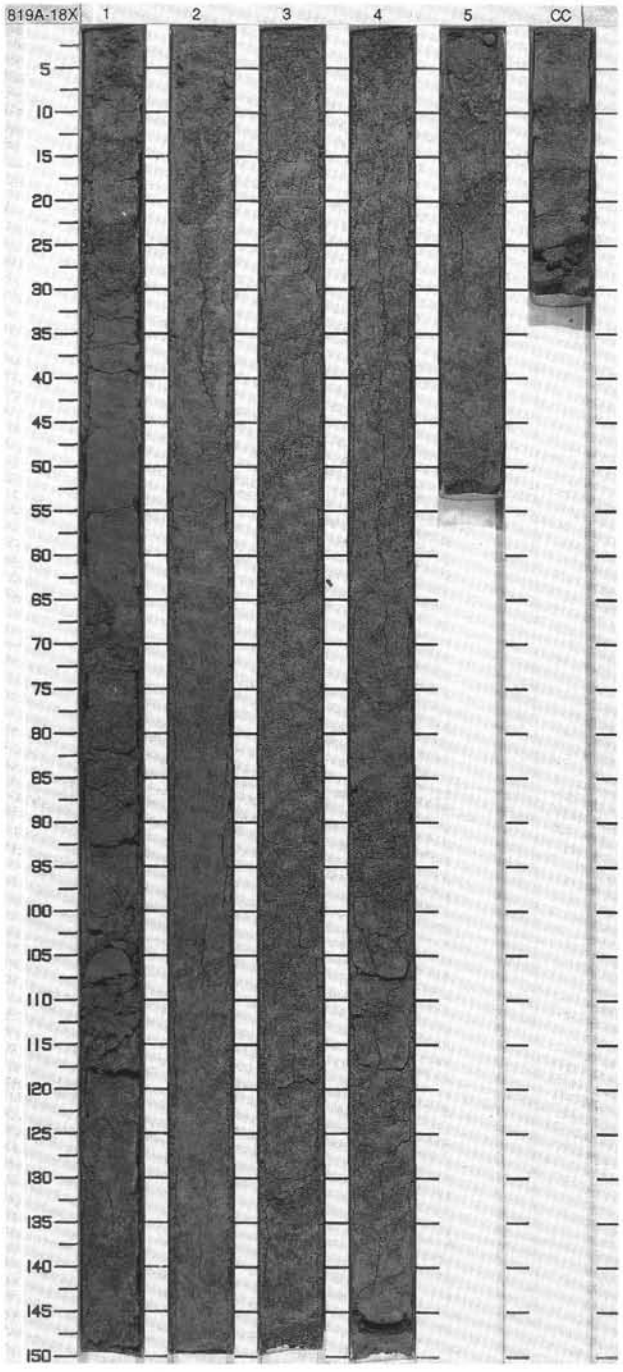
SMEAR SLIDE SUMMARY (%):

	1, 122 D	2, 56 D	2, 60 D
COMPOSITION:			
Bioclast	10	5	8
Clay	10	10	---
Dolomite	15	10	---
Feldspar	Tr	---	---
Foraminifers	5	5	10
Intraclasts	15	10	9
Micrite	21	30	30
Nannofossils	15	20	20
Quartz	6	10	10
Siliceous sponge spicules	---	---	3
Tunicate	3	---	5



SITE 819 HOLE A CORE 18X CORED INTERVAL 149.7-159.4 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	R/P N22 - N23	A/P CN13b			UNCERTAIN POLARITY	• 43.6% 2.38 • 46.6% 2.04 • 45.8% 2.13 • 47.6% 1.96	75.1% • 72.2% • 73.85% • 73.6% • 58.1%	1 2 3 4 5 CC	0.5 1.0				* * PAL	CALCAREOUS CHALK with SILICICLASTIC GRAINS Major Lithology: Gray (5GY 5/1), moderately lithified CALCAREOUS CHALK with SILICICLASTIC GRAINS. Minor Lithology (Section 1: 0-60 cm): Dark greenish gray (5GY 4/1), firm to partially lithified CLAYEY CALCAREOUS OOZE. SMEAR SLIDE SUMMARY (%): 1, 40 D — 3, 75 D COMPOSITION: Bioclast 12 12 Clay 15 --- Dolomite 5 5 Foraminifers 3 3 Inorganic calcite --- 35 Lithoclast 2 --- Micrite 10 --- Nannofossils 35 30 Quartz 18 15



SITE 819 HOLE A CORE 19X CORED INTERVAL 159.4-169.1 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
PLEISTOCENE	R/P N22 - N23	A/P CN13b			R ? N R ?	47.6% 1.96 ● 58.8% 1.78 ● 53.4% 1.90 ● 72.2%	72.1% ● 67.6% ● 72.2%	1 2 3 CC	0.5 1.0				* * * * TW *

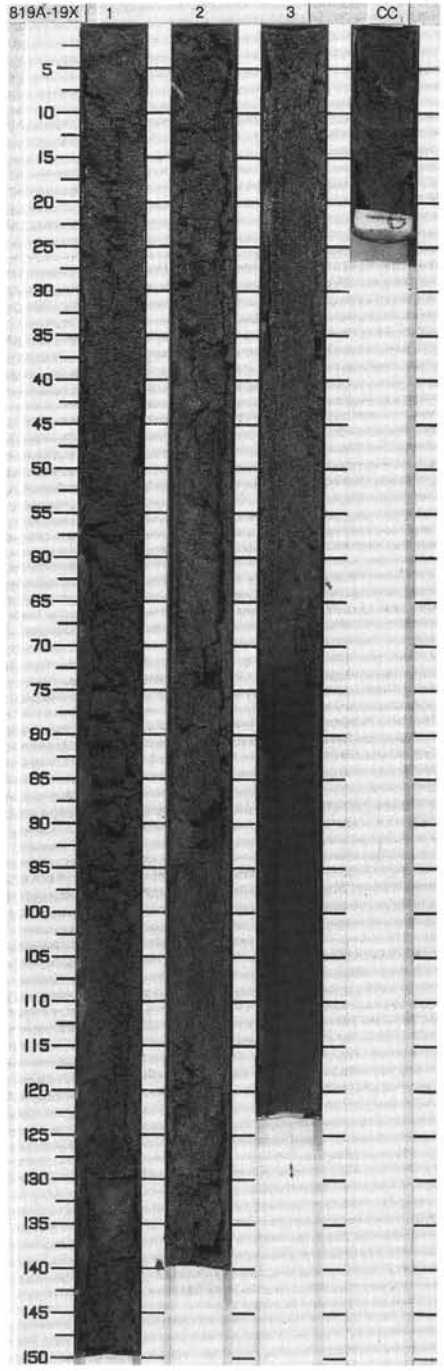
LITHOLOGIC DESCRIPTION

CLAYEY MICRITE NANNOFOSSIL OOZE to MICRITE CLAYEY NANNOFOSSIL OOZE

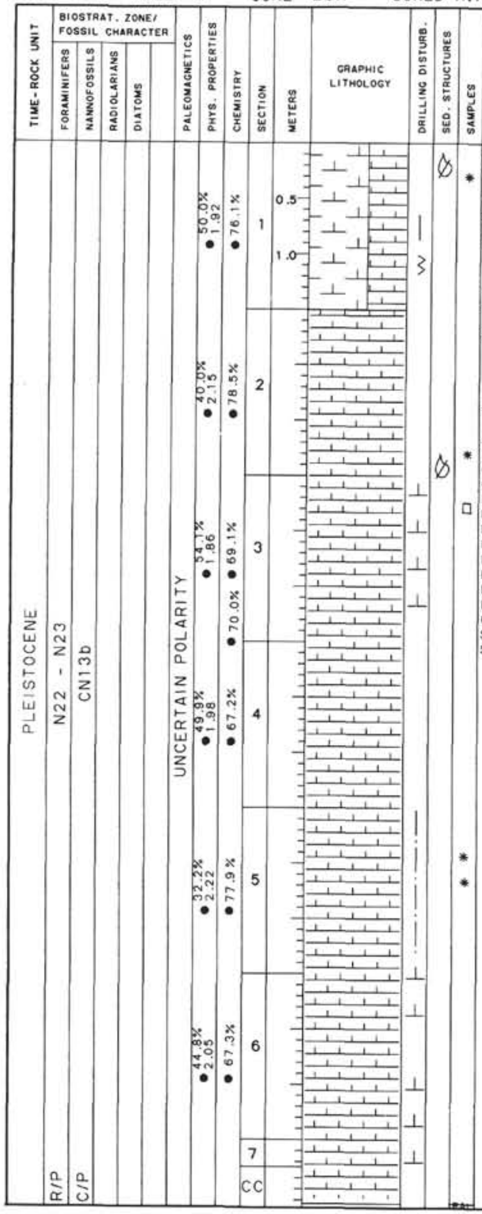
Major lithology: This core contains a highly disturbed (by drilling), greenish gray 5GY 5/1) CLAYEY MICRITE NANNOFOSSIL OOZE. The sediment is firm. The silt and sand size fraction are dominantly carbonate grains. A dark greenish gray (5GY 4/1) MICRITE CLAYEY NANNOFOSSIL OOZE occurs in Section 3, 70-122 cm, already firm.

SMEAR SLIDE SUMMARY (%):

	1, 65 D	2, 130 D	3, 99 D
COMPOSITION:			
Bioclast	26	12	7
Clay	12	15	20
Foraminifers	10	6	3
Inorganic calcite	---	10	20
Lithoclast	10	5	---
Nannofossils	30	40	32
Siliceous fragments	10	10	15
Siliceous sponge spicules	2	2	3



SITE 819 HOLE A CORE 20X CORED INTERVAL 169.1-178.8 mbsf



LITHOLOGIC DESCRIPTION

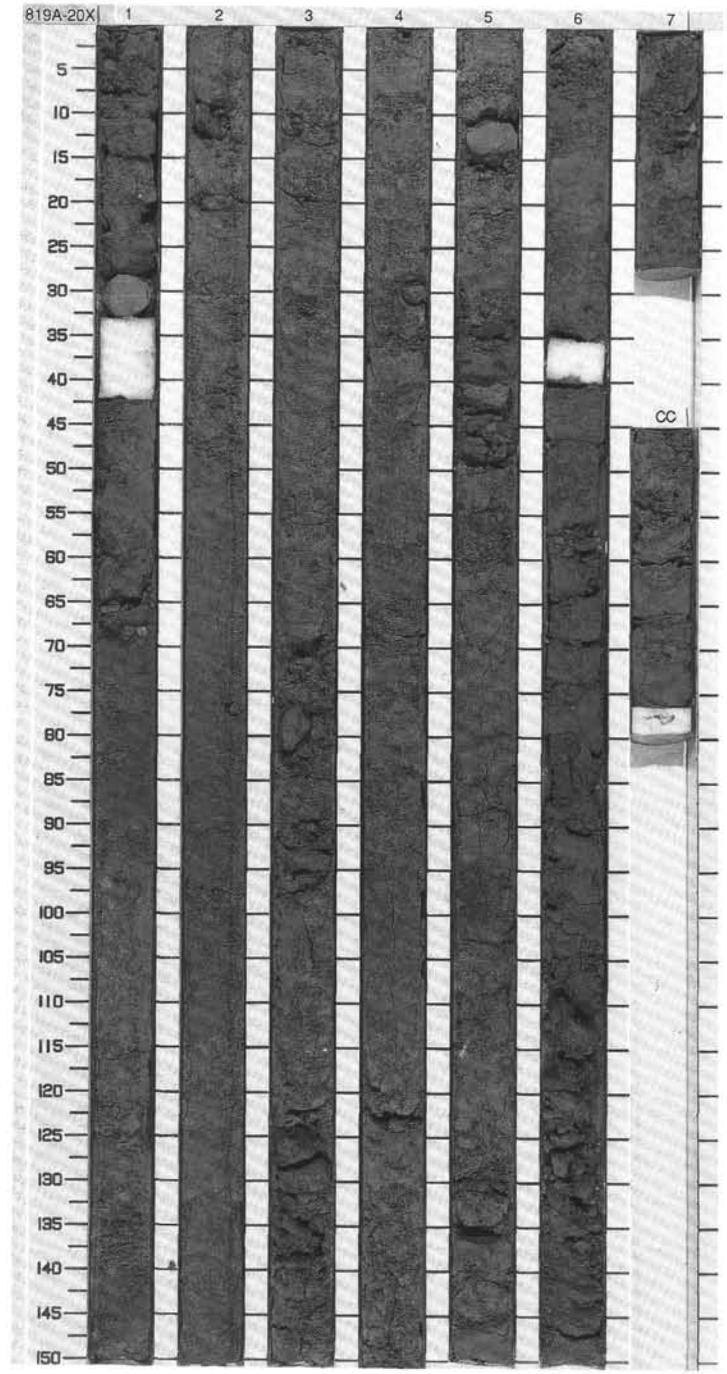
CALCITE NANNOFOSSIL CHALK with CLAY to DOLOMITIC NANNOFOSSIL CHALK with MICRITE

Major lithology: CALCITE NANNOFOSSIL CHALK with CLAY, greenish gray (5GY 5/1), shows some spotty lithified DOLOMITIC NANNOFOSSIL CHALK with MICRITE (biscuits) with carbonate grains of silt- to very fine sand-size. This chalk is the dominant lithology in Sections 6, 7 and the core catcher.

Minor lithology: MICRITE CLAYEY NANNOFOSSIL OOZE to CHALK occurs in Section 1, 0-27 cm, without micrite between 40-68 cm, and 115-150 cm. The color varies from greenish gray (5GY 5/1) to gray (5Y 5/1).

SMEAR SLIDE SUMMARY (%):

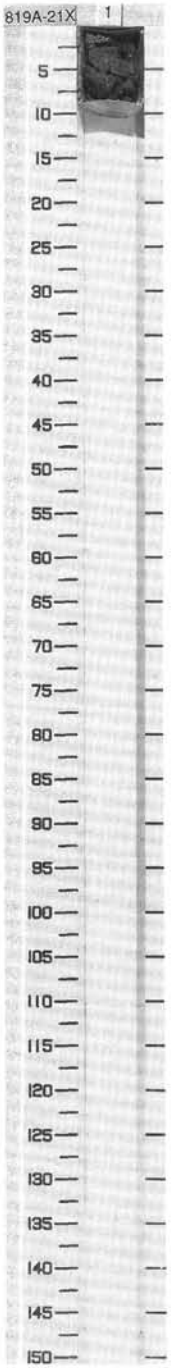
	1, 30 D	2, 130 D	CF 3, 29 M	5, 41 D	5, 66 D
COMPOSITION:					
Accessory minerals	---	---	2	---	---
Bioclast	14	5	50	---	20
Calcite	---	28	---	35	14
Clay	---	10	---	---	10
Dolomite	10	10	---	28	5
Feldspar	---	---	3	---	---
Fish	1	---	---	---	---
Foraminifers	---	---	30	2	2
Inorganic calcite	60	---	---	---	---
Lithoclast	---	---	10	---	---
Micrite	---	7	---	10	---
Nannofossils	10	32	---	20	40
Quartz	5	---	5	---	---
Siliceous fragments	---	7	---	---	8
Siliceous sponge spicules	---	1	---	---	1



SITE 819 HOLE A CORE 21X CORED INTERVAL 178.8-188.4 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	N22 - N23	CN13b	R/P	A/M	NOT MEASURED		● 61.9%	1					PAL	CALCITE NANNOFOSSIL CHALK Major lithology: This core contains a dark greenish gray (5GY 4/1) CALCITE NANNOFOSSIL CHALK. The sediment is well lithified (dolomite?) and contains several GASTROPODS

819A 22X NO RECOVERY



SITE 819 HOLE A CORE 23X CORED INTERVAL 198.1-207.4 mbsf

TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS C/G N22 - N23; NANNOFOSSILS A/G CN13b; RADIOLARIANS; DIATOMS

PALEOMAGNETICS: R

PHYS. PROPERTIES: R 49.1% 1.97; R 47.4% 1.97; R 47.7% 1.97; R 48.7% 1.96; R 47.2% 2.00; R 46.1% 2.00

CHEMISTRY: 43.4%; 40.3%; 33.6%; 47.7%; 31.7%; 37.8%; 35.8%

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES: C

SAMPLES: OG, IW, PAL

LITHOLOGIC DESCRIPTION

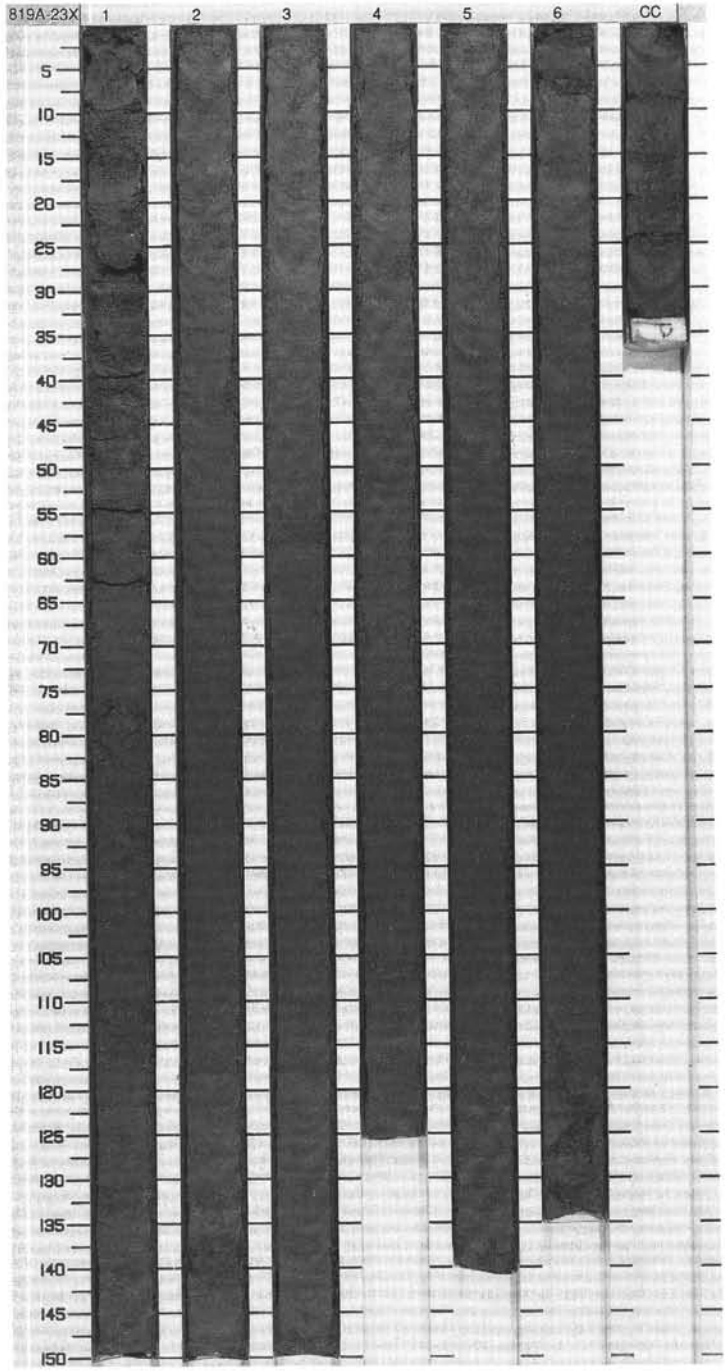
CLAYEY NANNOFOSSIL MIXED SEDIMENT with CALCITE and QUARTZ to unlithified NANNOFOSSIL CLAYSTONE with QUARTZ and CALCITE

Major lithology: This core contains dark greenish gray (5GY 4/1) CLAYEY NANNOFOSSIL MIXED SEDIMENT with CALCITE and QUARTZ in Section 1. Unlithified NANNOFOSSIL CLAYSTONE with QUARTZ and CALCITE occurs in Sections 2 to 7, dark greenish gray (5GY 4/1) in color. Silty intercalations were noted in Section 4 at 13-14 (with large bioclasts), 27-28, 44-46, and 84-85 cm; in Section 5, 75-77 cm; in Section 6, 0-2, 6-8, 15, 26, 33, 63, 123-127 cm (with silt-infilled burrows), and in Section 7, 15-26 cm.

Minor lithology: Dark gray (5GY 4/1) SILTY WACKESTONE is interbedded with CLAYEY NANNOFOSSIL MIXED SEDIMENT in Section 1, 10-55 cm, coarsening-upward. Silty BIOCLASTIC NANNOFOSSIL WACKESTONE with QUARTZ and CALCITE occurs as a turbidite in Section 3, 55-60 cm. 25% of BIOCLASTS are CORAL and MOLLUSC fragments.

SMEAR SLIDE SUMMARY (%):

	1, 31 D	3, 51 D	3, 62 D
COMPOSITION:			
Accessory minerals	3	2	3
Bioclast	10	26	5
Calcite	12	10	15
Feldspar	4	3	3
Foraminifers	3	5	2
Nannofossils	43	35	52
Quartz	18	14	15
Siliceous sponge spicules	5	3	3
Tunicate	2	2	2



SITE 819 HOLE A CORE 24X CORED INTERVAL 207.4-217.0 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	N22 - N23	CN13b			UNCERTAIN POLARITY	● 48.5% 1.96	● 51.4%	1	0.5			Ø	*
	C/G								1.0			Ø	
	A/G					● 46.3% 1.98	● 51.4%	2				~	
						● 47.4% 1.98	● 47.7%	3				Ø	
					● 46.0% 1.93		● 50.6%	4				~	*
					● 47.4% 1.97		● 59.6%	5				~	*
					● 56.5%			6				~	
								CC				~	

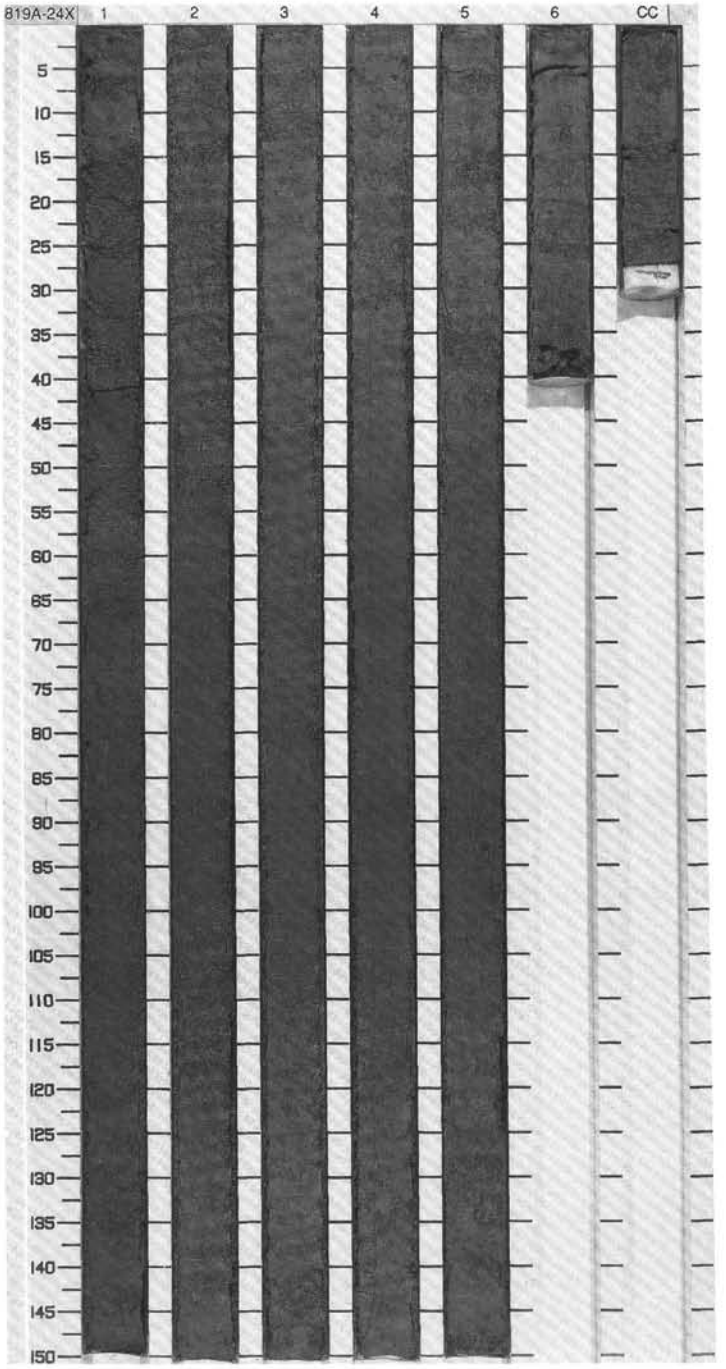
LITHOLOGIC DESCRIPTION

CLAYEY NANNOFOSSIL CHALKY MIXED SEDIMENT with BIOCLASTS to CALCITE NANNOFOSSIL CLAYEY CHALKY MIXED SEDIMENT

Major lithology: Dark greenish gray (5GY 4/1) CLAYEY NANNOFOSSIL CHALKY MIXED SEDIMENT with BIOCLASTS occurs in Section 1, with some silt intercalations (FORAMINIFERS, MICRITIZED BIOCLASTS, minor QUARTZ) to greenish gray (5GY 5/1) CALCITE NANNOFOSSIL CLAYEY CHALKY MIXED SEDIMENT with SILT. The silt is mainly calcareous, including micritized bioclasts. Calcareous silt fills burrows in Section 2, 50 cm, Section 4, 86-90 cm, and Section 5, 30-40 cm. In Section 5 silty layers occur at 78-80, and 124-128 cm, as well as in Section 6, 15-25 cm. In Section 3, 8-11 cm a sand-sized CALCITE WACKESTONE/PACKSTONE occurs.

SMEAR SLIDE SUMMARY:

	1,75 D	3,11 D	5,32 D
COMPOSITION:			
Accessory minerals	2	1	3
Bioclast	15	28	15
Calcite	10	12	12
Clay	254	25	
Feldspar	2	2	2
Foraminifers	5	6	4
Nannofossils	25	30	25
Quartz	10	10	9
Siliceous sponge spicules	4	4	3
Tunicate	2	2	2



SITE 819 HOLE A CORE 25X CORED INTERVAL 217.0-221.7 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
R/G	N22 - N23	CN13b			N	● 44.8% 2.03 ● 44.7% 2.09	● 61.9% ● 60.5% ● 53.1%	1 2 3 CC	0.5 1.0				* IW

LITHOLOGIC DESCRIPTION

CLAYEY NANNOFOSSIL WACKESTONE with BIOCLASTS to CLAYEY NANNOFOSSIL MIXED SEDIMENT

Major lithology: This core contains CLAYEY NANNOFOSSIL WACKESTONE with BIOCLASTS, greenish gray (5GY 5/1) in color. The BIOCLASTS are reef-derived CORALS (alcyonarian), MOLLUSCS, BENTHIC FORAMINIFERS, and subordinate TUNICATE and CALCAREOUS SPICULES. The CLAYEY NANNOFOSSIL MIXED SEDIMENT is greenish gray (5GY 5/1).

Minor lithology: DOLOMITE nodule in Section 2, 110 cm. In the core catcher, 27-33 cm, a DOLOMITIC NANNOFOSSIL CHALK with CLAY occurrs.

SMEAR SLIDE SUMMARY (%):

	1, 73 D	CC, 27 D
COMPOSITION:		
Accessory minerals	2	2
Bioclast	20	5
Calcite	11	---
Clay	20	20
Dolomite	---	15
Feldspar	3	1
Foraminifers	5	2
Inorganic calcite	---	13
Nannofossils	23	35
Quartz	10	6
Siliceous sponge spicules	3	---
Spicules	---	1
Tunicate	2	---

SITE 819 HOLE A CORE 26X CORED INTERVAL 221.7-226.3 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
R/G	N22 - N23	CN13b			N	● 45.3% 2.00	● 63.1%	1	0.5 1.0				*
A/G					R	● 48.2% 1.98	● 64.4% ● 64.7%	2 CC					OC * PAL

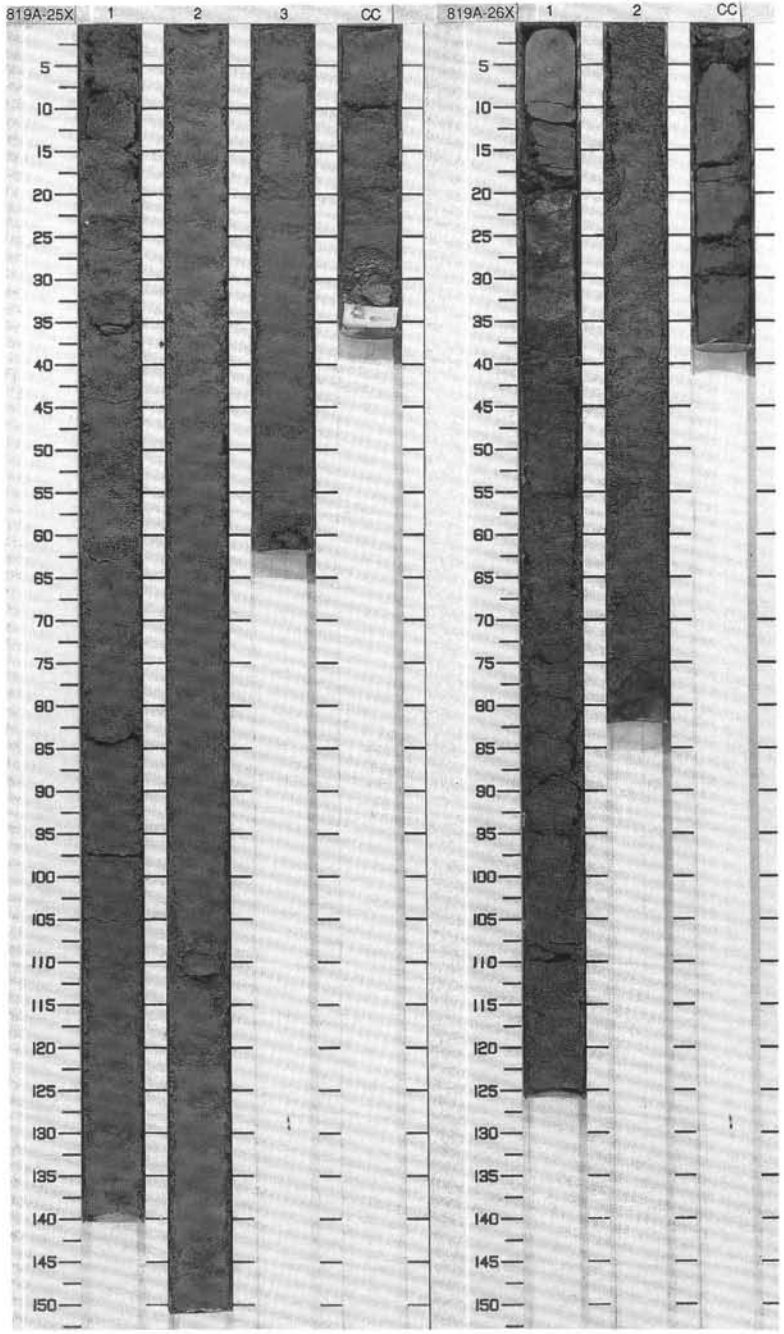
LITHOLOGIC DESCRIPTION

CALCITE CLAYEY NANNOFOSSIL CHALK with BIOCLASTS to CLAYEY BIOCLASTIC NANNOFOSSIL WACKESTONE

Major lithology: This core contains CALCITE CLAYEY NANNOFOSSIL CHALK with BIOCLASTS. greenish gray (5GY 5/1) colored. to greenish gray (5GY 5/1) CLAYEY BIOCLASTIC NANNOFOSSIL WACKESTONE.

SMEAR SLIDE SUMMARY (%):

	1, 9 D	2, 44 D
COMPOSITION:		
Accessory minerals	2	1
Bioclast	12	25
Clay	15	18
Dolomite	12	---
Feldspar	2	2
Foraminifers	4	6
Inorganic calcite	20	8
Nannofossils	22	27
Quartz	6	7
Spicules	4	3
Tunicate	1	2



SITE 819 HOLE A CORE 27X CORED INTERVAL 226.3-236.0 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
R/G	N22 - N23	CN13b			R	● 44.8% 2.03	● 63.2%	1	0.5				*
									1.0	VOID			
						● 45.3% 2.03	● 53.8%	2					
					● 44.8% 2.04		● 57.8%	3					*
					● 44.2% 2.04		● 57.0%	4					
A/G					● 54.8%			CC					Pal

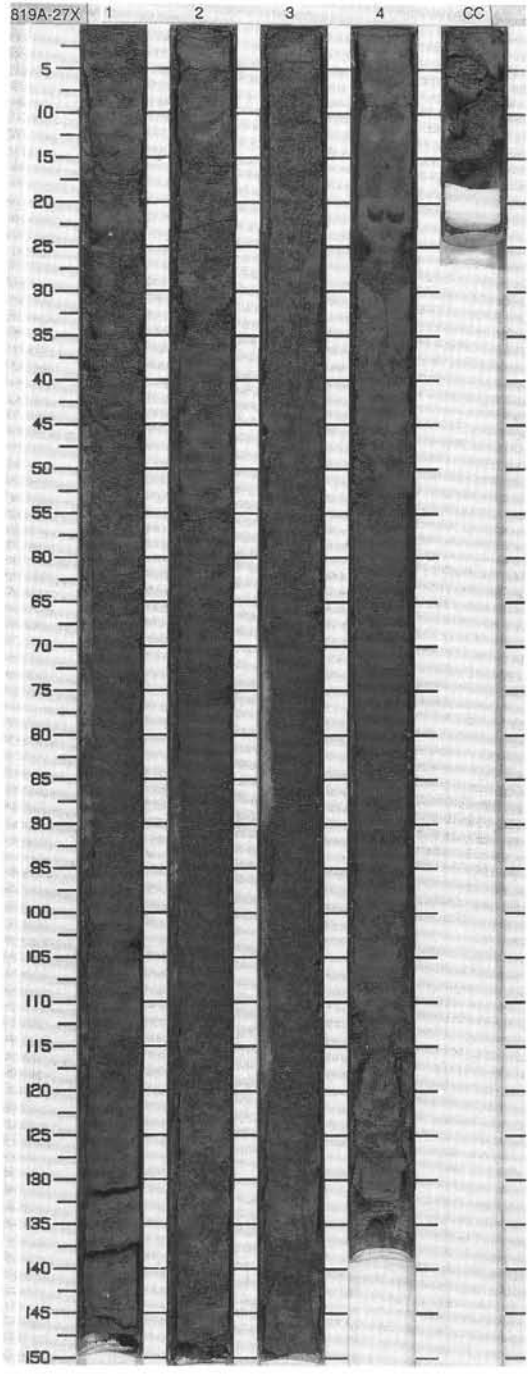
LITHOLOGIC DESCRIPTION

BIOCLASTIC NANNOFOSSIL WACKESTONE with CLAY

Major lithology: This core contains BIOCLASTIC NANNOFOSSIL WACKESTONE with CLAY, greenish gray (5GY 5/1).The bioclasts are silt-sized.

SMEAR SLIDE SUMMARY (%):

	1, 30 D	3, 41 D
COMPOSITION:		
Bioclast	24	26
Clay	15	10
Feldspar	3	2
Foraminifers	7	5
Igneous rock fragments	1	1
Inorganic calcite	14	12
Micrite	---	6
Nannofossils	23	24
Quartz	7	7
Spicules	5	5
Tunicate	1	2



SITE 819 HOLE A CORE 28X CORED INTERVAL 236.0-245.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	BIOSTRAT. ZONE/ FOSSIL CHARACTER: NANNOFOSSILS	BIOSTRAT. ZONE/ FOSSIL CHARACTER: RADIOLARIANS	BIOSTRAT. ZONE/ FOSSIL CHARACTER: DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
	R/G	N22 - N23	A/G	CN13b	R	● 47.3% 1.98 ● 44.5% 2.02 ● 37.0%	● 42.5% ● 51.85	1 2 CC	0.5 1.0				IW PAL

LITHOLOGIC DESCRIPTION

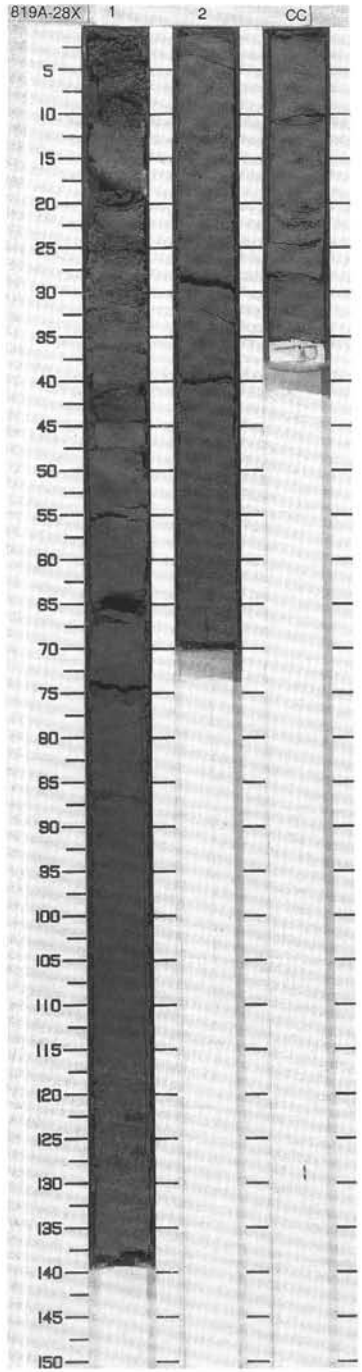
BIOCLASTIC WACKESTONE/CLAYSTONE to NANNOFOSSIL CLAYEY MIXED SEDIMENT with WACKESTONE intercalations

Major lithology: This core contains NANNOFOSSIL CLAYEY MIXED SEDIMENT with thin, partially lithified WACKESTONE intercalations in Section 1 at 87-88 cm, and in Section 2 at 13, 17, 38, 47, 54, 57 cm. The color of the ooze is dark greenish gray (5GY 4/1).

Minor lithology: Greenish gray (5GY 5/1) silty BIOCLASTIC NANNOFOSSIL WACKESTONE/CLAYSTONE in Section 1, 0-77 cm. The contact to the underlying lithology is gradational.

SMEAR SLIDE SUMMARY (%):

	1, 75 D	2, 41 D	CC, 25 D
COMPOSITION:			
Bioclast	20	15	20
Clay	18	20	25
Feldspar	2	2	2
Foraminifers	8	5	7
Igneous rock fragments	1	1	1
Inorganic calcite	2	12	Tr
Micrite	6	6	---
Nannofossils	28	25	27
Quartz	8	8	7
Spicules	5	4	5
Tunicate	2	2	2
Volcanic ash	---	---	4



SITE 819 HOLE A CORE 29X CORED INTERVAL 245.6-255.3 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
	R/G	A/G			R	• 45.3% 2.03 • 44.4% 2.07	• 37.8% • 39.0% • 44.8% • 45.7%	1 2 3 4 CC	0.5 1.0				* OG PAL	Unlithified NANNOFOSSIL CLAYSTONE to NANNOFOSSIL CLAYEY MIXED SEDIMENT

N22 - N23

CN13b

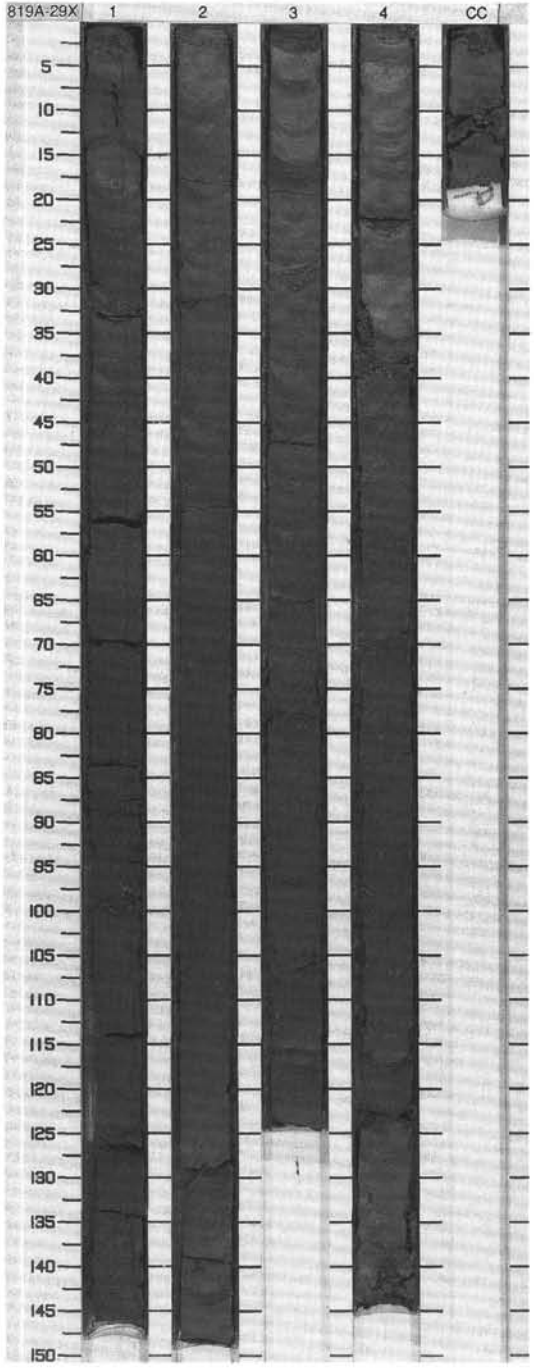
• 40.5% 2.06

• 32.8%

Major lithology: This core contains dark greenish gray (5GY 4/1) unlithified NANNOFOSSIL CLAYSTONE with thin, silty, partly lithified WACKESTONE intercalations in Section 1, at 0-4, 14, 45, 56, 89-91, 99-101, 126-127, and 135 cm. In Sections 3 to 4 these intercalations occur irregular spaced throughout. Section 4 contains a NANNOFOSSIL CLAYEY MIXED SEDIMENT, dark greenish gray (5GY 4/1).

SMEAR SLIDE SUMMARY (%):

	3, 60 D
COMPOSITION:	
Bioclast	20
Clay	21
Feldspar	1
Foraminifers	6
Igneous rock fragments	1
Inorganic calcite	11
Nannofossils	25
Quartz	8
Spicules	5
Tunicate	2



SITE 819 HOLE A CORE 30X CORED INTERVAL 255.3-264.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
	R/G	N22 - N23			R	● 45.6% 2.02 ● 44.1% 2.00	● 50.1% ● 44.2% ● 53.1%	1 2 CC	0.5 1.0				PAL
	A/G	CN13b											

LITHOLOGIC DESCRIPTION

BIOCLASTIC CHALK with NANNOFOSSILS and CALCAREOUS CLAYSTONE to NANNOFOSSIL BIOCLASTIC WACKESTONE with CLAY

Major lithology: BIOCLASTIC CHALK with NANNOFOSSILS and CALCAREOUS CLAYSTONE, dark greenish gray (5GY 4/1). NANNOFOSSIL BIOCLASTIC WACKESTONE with CLAY is greenish gray (5GY 5/1). The calcareous silt to very fine sand consists of BIOCLASTS (CORALS, MOLLUSCS, BENTHIC FORAMINIFERS) and occurs as thin interlayered beds or as fillings of burrows.

SMEAR SLIDE SUMMARY (%):

	1, 67 D
COMPOSITION:	
Bioclast	25
Clay	26
Feldspar	2
Foraminifers	5
Igneous rock fragments	1
Inorganic calcite	11
Nannofossils	22
Quartz	2
Spicules	4
Tunicate	2

SITE 819 HOLE A CORE 31X CORED INTERVAL 264.9-274.5 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
	R/G	N22 - N23			R	● 47.0% 1.98 ● 46.5% 2.03 ● 46.0% 2.03	● 63.3% ● 59.1% ● 60.1% ● 35.2%	1 2 3 CC	0.5 1.0				TW PAL
	A/G	CN13b											

LITHOLOGIC DESCRIPTION

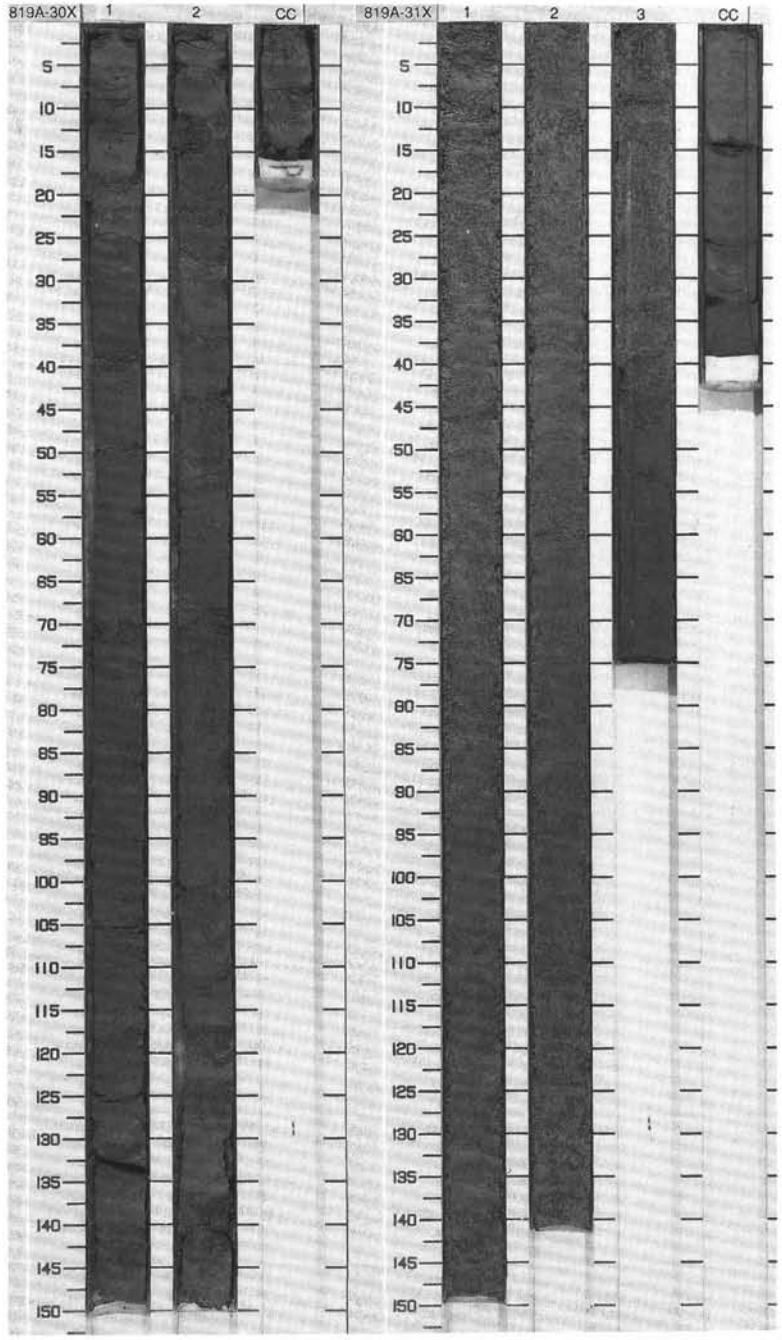
BIOCLASTIC NANNOFOSSIL CLAYEY WACKESTONE with CALCITE CRYSTALS

Major lithology: This core contains a greenish gray (5GY 5/1) BIOCLASTIC NANNOFOSSIL CLAYEY WACKESTONE with CALCITE CRYSTALS.

Minor lithology: Dark greenish gray (5GY 4/1) NANNOFOSSIL CLAYSTONE occurs in Section 3, 46-75 cm, and in the core catcher.

SMEAR SLIDE SUMMARY (%):

	1, 85 D	CC, 21 D
TEXTURE:		
Sand	45	33
Silt	43	40
Clay	12	27
COMPOSITION:		
Bioclast	25	15
Clay	18	25
Feldspar	1	1
Foraminifer	7	5
Igneous rock fragments	1	1
Inorganic calcite	10	10
Nannofossils	25	30
Quartz	7	6
Spicules	4	5
Tunicate	2	2



SITE 819 HOLE A CORE 32X CORED INTERVAL 274.5-284.2 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
	N22 - N23	CN13b			R	● 44.7% 2.01	● 42.3%	1	0.5 1.0				*
					N	● 45.5% 2.04	● 53.9%	2					*
						● 51.2% 1.86	● 52.1%	3					
					R	● 48.7% 1.93	● 54.6%	4					
R/G						● 46.7% 1.94	● 54.1%						
A/G							● 50.4%	5					*
								CC					PAL

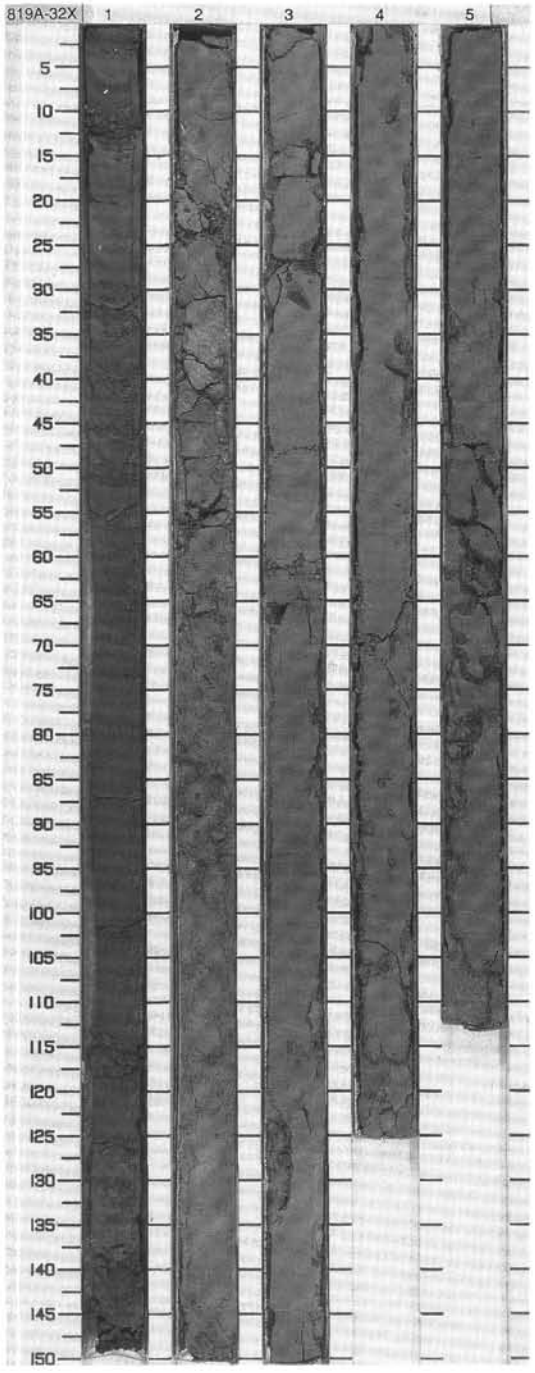
LITHOLOGIC DESCRIPTION

CLAYEY NANNOFOSSIL MIXED SEDIMENT with BIOCLASTS to partially lithified WACKESTONE/CLAYSTONE

Major Lithology: Dark greenish gray (5GY 4/1) CLAYEY NANNOFOSSIL MIXED SEDIMENT with small BIOCLAST FRAGMENTS in the top 100 cm, grading down to lighter-colored greenish gray (5GY 5/1), partially lithified WACKESTONE/CLAYSTONE with NANNOFOSSILS, MICRITE and BIOCLASTS. Wackestones are relatively coarser-grained than overlying ooze and display subhorizontal to wavy laminations, wispy laminae and moderate bioturbation.

SMEAR SLIDE SUMMARY (%):

	1,95 D	2,65 D	5,52 D
TEXTURE:			
Sand	34	43	50
Silt	41	28	30
Clay	25	29	20
COMPOSITION:			
Bioclast	15	15	20
Chert	---	2	---
Clay	25	10	---
Dolomite	---	---	5
Feldspar	1	1	5
Foraminifers	6	10	5
Igneous rock fragments	1	---	---
Inorganic calcite	10	---	---
Intraclasts	---	10	10
Micrite	---	18	---
Nannofossils	29	20	20
Quartz	6	6	8
Radiolarians	---	3	---
Spicules	5	---	2
Tunicate	2	5	5



SITE 819 HOLE A CORE 33X CORED INTERVAL 284.2-293.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
	R/G	N22 - N23	CN13b		R	● 53.6% 1.86 ● 46.1% 1.99 ● 49.5% 1.96	● 33.2% ● 31.6% ● 28.1%	CC 3 2 1	0.5 1.0			*	*

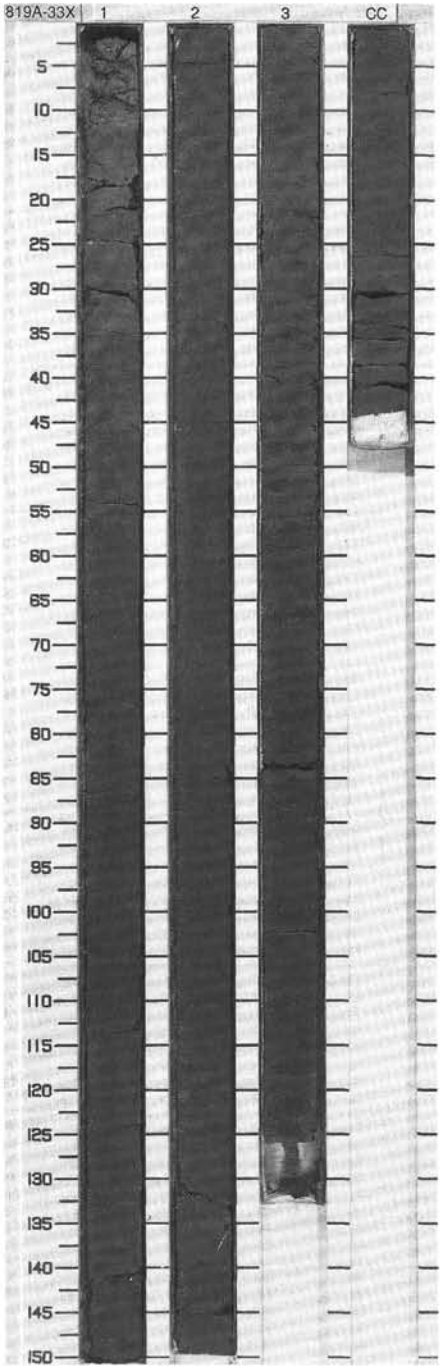
LITHOLOGIC DESCRIPTION

SILTY CALCAREOUS CLAYSTONE

Major Lithology: Dark greenish gray (5GY 4/1) SILTY CALCAREOUS CLAYSTONE. In *Section 2, 0-90 cm, the sediment contains a mixture of QUARTZ and FELDSPAR*, NANNOFOSSILS, BIVALVES and LITHOCLASTS. Section 2 shows 1 to 2 cm interbedding of WACKESTONE and CLAYEY CALCAREOUS SILTSTONE. Very small burrows show pyritized pelletal fabric.

SMEAR SLIDE SUMMARY (%):

	1, 72 D	3, 71 D
TEXTURE:		
Sand	38	36
Silt	48	40
Clay	14	24
COMPOSITION:		
Bioclast	17	10
Clay	10	20
Dolomite	3	1
Feldspar	3	4
Foraminifers	5	5
Intraclasts	15	15
Nannofossils	15	15
Quartz	25	25
Spicules	2	2
Tunicate	5	3



SITE 819 HOLE A CORE 34X CORED INTERVAL 293.9-303.5 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
R/G	N22 - N23	CN13b			R	● 44.7% 2.10	● 30.4%	1	0.5			*	
									1.0				
						● 42.9% 2.10	● 53.2%	2					
						● 44.7% 2.09	● 24.8%	3					TW
						● 24.3%						*	
A/G								4					
								CC					PAL

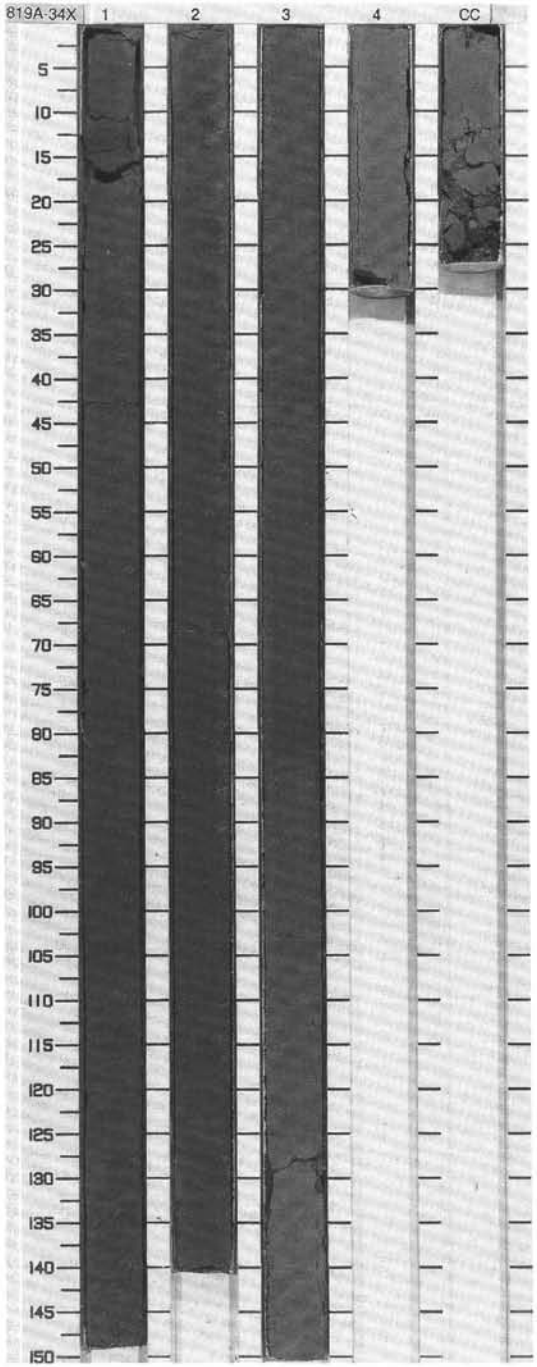
LITHOLOGIC DESCRIPTION

SILTY CALCAREOUS CLAYSTONE to CLAYEY CALCAREOUS SILTSTONE

Major Lithology: Dark greenish gray (5GY 4/1) SILTY CALCAREOUS CLAYSTONE grades into a CLAYEY CALCAREOUS SILTSTONE. Both lithologies contain BIOCLASTS. Fine lamination was noted in Section 3, at 80-85 cm.

SMEAR SLIDE SUMMARY (%):

	1, 94 D	3, 96 D
TEXTURE:		
Sand	59	70
Silt	20	20
Clay	21	10
COMPOSITION:		
Bioclast	7	23
Clay	10	---
Dolomite	---	7
Feldspar	4	1
Foraminifers	5	10
Intraclasts	10	13
Micrite	11	10
Nannofossils	20	20
Opaques	1	1
Quartz	25	10
Spicules	3	---
Tunicate	4	5



SITE 819 HOLE A CORE 35X CORED INTERVAL 303.5-313.2 mbsf

TIME-ROCK UNIT: R/G, A/G

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS N22 - N23; NANNOFOSSILS CN13b; RADIOLARIANS; DIATOMS

PALEOMAGNETICS: R / N / R

PHYS. PROPERTIES: 40.3% 2.14; 39.5% 2.15; 40.5% 2.13; 45.1% 2.06

CHEMISTRY: 67.1%; 67.6%; 72.1%; 65.4%; 65.65; 64.9%; 61.7%

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: OG; PAL

LITHOLOGIC DESCRIPTION

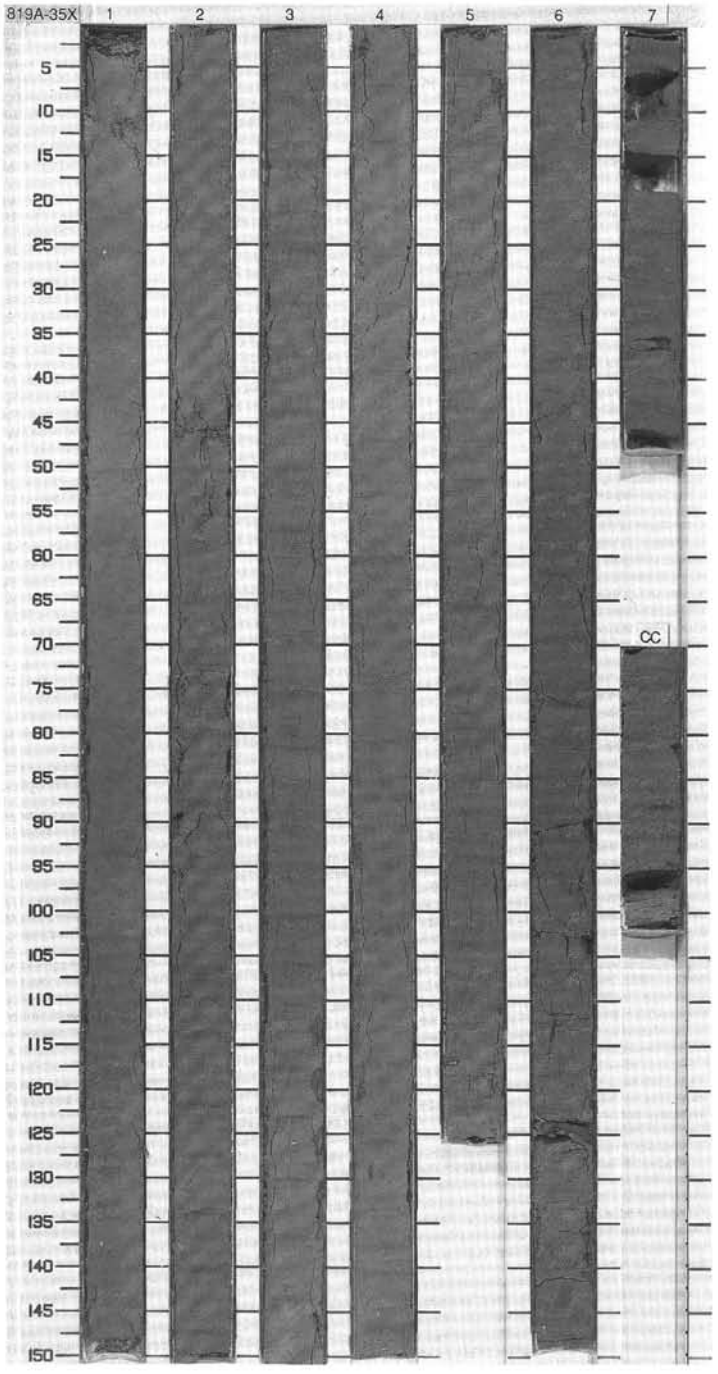
CLAYEY WACKESTONE with SILT

Major Lithology: Bioturbated greenish gray (5GY 5/1), partially lithified, CLAYEY WACKESTONE containing NANNOFOSSILS, BIVALVES, LITHOCLASTS and SILICICLASTIC GRAINS. Wispy CLAY laminae are present.

Minor Lithology: Sporadic interbed and burrow fill BIOCLASTIC PACKSTONES with silt- to sand-sized grains with a mixed NANNOFOSSIL and CLAY matrix. Sediments in Section 7 are finely laminated to wispy laminated.

SMEAR SLIDE SUMMARY (%):

	3, 65 D	6, 71 D
COMPOSITION:		
Bioclast	10	7
Clay	10	10
Collophane	---	2
Dolomite	7	7
Feldspar	3	2
Foraminifers	3	7
Glauconite	---	Tr
Intraclasts	30	14
Micrite	10	15
Nannofossils	10	20
Quartz	10	10
Siliceous sponge spicules	2	2
Tunicate	5	4



SITE 819 HOLE A CORE 36X CORED INTERVAL 313.2-322.9 mbsf

TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER
- FORAMINIFERS: R/G
- NANNOFOSSILS: N22 - N23
- RADIOLARIANS: A/G
- DIATOMS: CN13b

PALEOMAGNETICS: R R R R R R R ?
PHYS. PROPERTIES: ● 48.3% 2.02 | ● 46.8% 2.00 | ● 53.0% 2.16 | ● 45.1% 2.02 | ● 45.5% 2.03 | ● 41.3% 1.97 | ● 43.7% 2.04
CHEMISTRY: ● 37.3% | ● 40.6% | ● 39.9% | ● 47.7% | ● 47.3% | ● 45.5% | ● 51.2% | ● 52.7%
SECTION: 7 | CC | 6 | 5 | 4 | 3 | 2 | 1
METERS: 0.5 | 1.0
GRAPHIC LITHOLOGY: VOID
DRILLING DISTURB.
SED. STRUCTURES
SAMPLES: PAL

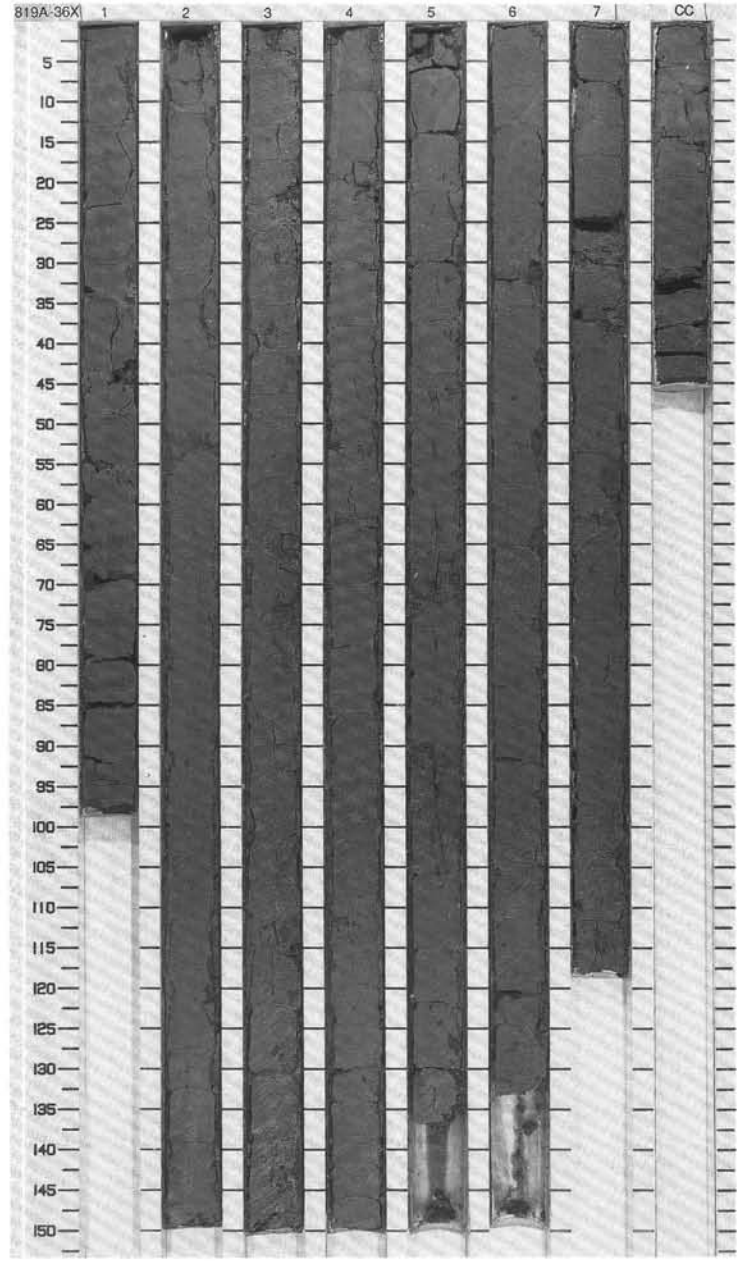
LITHOLOGIC DESCRIPTION

CHALKY CLAYEY NANNOFOSSIL MIXED SEDIMENT with BIOCLASTS and QUARTZ SILT

Major Lithology: Finely bioturbated greenish gray (5GY 5/1), partially lithified CHALKY CLAYEY NANNOFOSSIL MIXED SEDIMENT with BIOCLASTS and QUARTZ SILT. Wispy CLAY laminae present. Minor BIOCLASTIC PACKSTONE interbeds and burrow-fills.

SMEAR SLIDE SUMMARY (%):

	1, 30 D	1, 54 D	3, 96 D	5, 40 D	7, 44 D
COMPOSITION:					
Bioclast	15	25	6	27	13
Clay	15	---	20	10	20
Collophane	---	---	2	---	5
Dolomite	---	10	---	---	Tr
Feldspar	Tr	---	---	---	---
Foraminifers	3	9	2	5	3
Intraclasts	---	30	10	---	8
Micrite	7	5	20	---	15
Nannofossils	35	10	25	35	20
Quartz	15	8	11	15	10
Siliceous sponge spicules	2	---	---	5	2
Tunicate	3	---	---	3	2



SITE 819 HOLE A CORE 37X CORED INTERVAL 322.9-332.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLEISTOCENE	R/G	A/G			? R	R	R	R					
	N22 - N23	CN13b				43.8% 2.03	45.0% 43.7%	6					
						49.8% 2.30	47.0%	5					
						46.1% 2.12	48.7%	4					*
						46.8% 2.05	47.8%	3					
						44.7% 2.04	48.7%	2					
						44.7% 2.06	46.2%	1	0.5 1.0				
								7					
								CC					

PAT

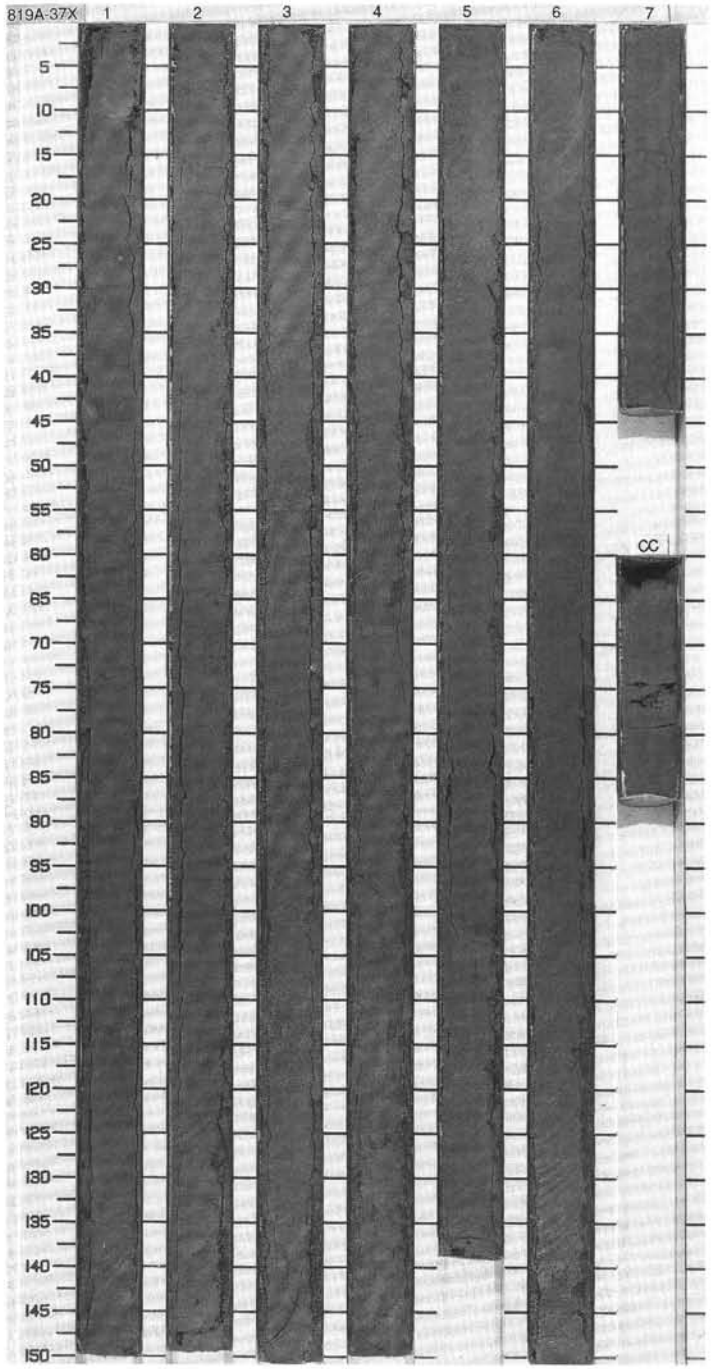
LITHOLOGIC DESCRIPTION

BIOCLASTIC CHALK with NANNOFOSSILS to CLAYEY MIXED SEDIMENT

Major Lithology: Slightly bioturbated, dark greenish gray (5GY 4/1) BIOCLASTIC CHALK with NANNOFOSSILS to CLAYEY MIXED SEDIMENT. Thin layers of relatively coarse BIOCLASTIC PACKSTONE to WACKESTONE in Sections 4 and 5.

SMEAR SLIDE SUMMARY (%):

	4, 14 D	6, 61 D
COMPOSITION:		
Bioclast	40	13
Clay	20	5
Collophane	---	5
Dolomite	Tr	8
Feldspar	---	2
Foraminifers	10	5
Intraclasts	---	20
Micrite	---	11
Nannofossils	10	15
Quartz	10	10
Siliceous sponge spicules	3	2
Tunicate	5	3



SITE 819 HOLE A CORE 38X CORED INTERVAL 332.5-342.2 mbsf

TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER
- FORAMINIFERS: R/G
- NANNOFOSSILS: N22 - N23
- RADIOLARIANS: A/G
- DIATOMS: CN13b

PALEOMAGNETICS: R R R R R ?

PHYS. PROPERTIES:
- 44.0% 2.03
- 42.7% 2.08
- 47.8% 2.10
- 43.5% 2.13
- 45.6% 2.18
- 45.6% 2.18

CHEMISTRY:
- 57.6%
- 50.2% ● 49.4% 1.99 ● 49.3%
- 49.6%
- 48.9%
- 47.0%
- 48.2%
- 48.2%

SECTION: 1 2 3 4 5 6 7 CC

METERS: 0.5 1.0

GRAPHIC LITHOLOGY: VOID

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: * * PAL

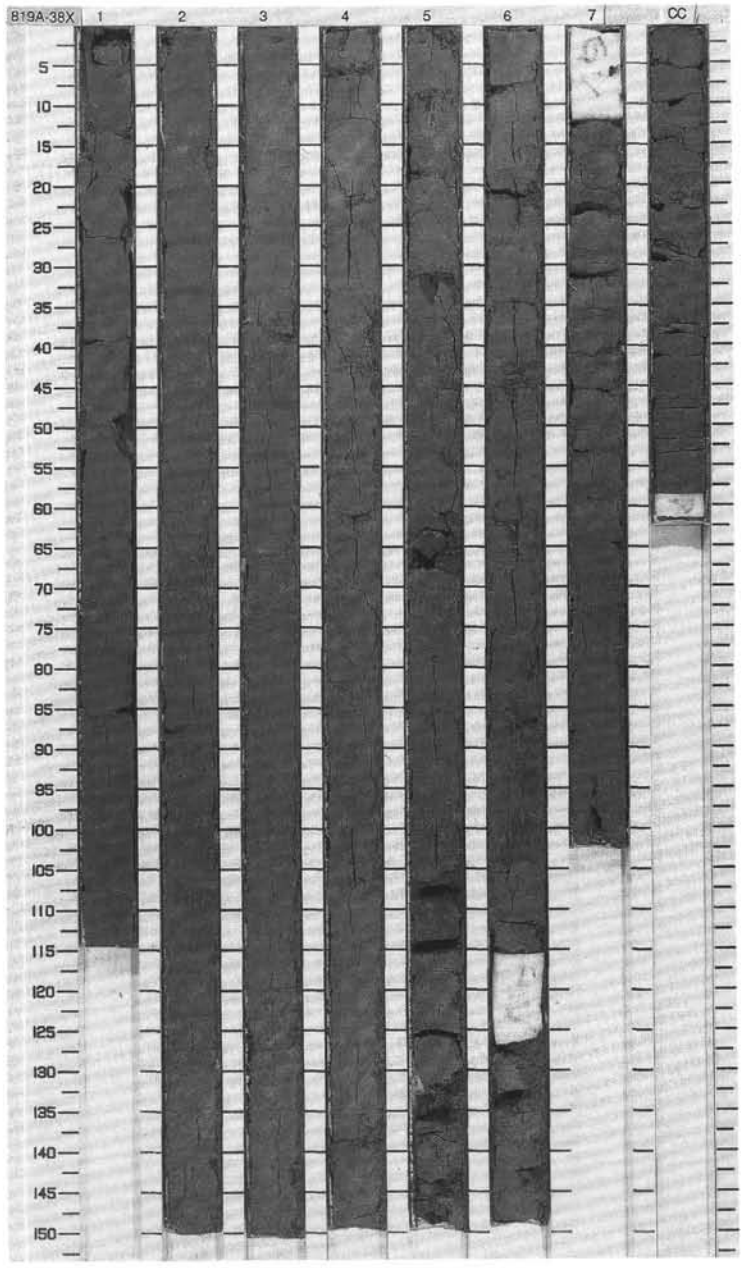
LITHOLOGIC DESCRIPTION

CLAYEY BIOCLASTIC MIXED SEDIMENT to CALCAREOUS SILTSTONE with BIOCLASTS

Major Lithology: Slightly bioturbated, dark greenish gray (5GY 4/1) firm CLAYEY BIOCLASTIC MIXED SEDIMENT in Sections 1, 5, 6, 7 and CC and CALCAREOUS SILTSTONE with BIOCLASTS in Sections 2, 3 and 4.

SMEAR SLIDE SUMMARY (%):

	2, 75 D	5, 77 D
COMPOSITION		
Bioclast	15	15
Clay	15	10
Collophane	2	3
Dolomite	---	5
Feldspar	8	3
Foraminifers	3	8
Glauconite	Tr	---
Intraclasts	10	10
Micrite	10	10
Nannofossils	10	15
Quartz	20	15
Siliceous sponge spicules	4	3
Tunicate	3	3



SITE 819 HOLE A CORE 39X CORED INTERVAL 342.2-351.5 mbsf

TIME-ROCK UNIT: PLEISTOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS R/G; NANNOFOSSILS N22 - N23 A/G; RADIOLARIANS CN13b; DIATOMS

PALEOMAGNETICS: R R R R R R R

PHYS. PROPERTIES: ● 49.7% 2.04 | ● 45.4% 2.20 | ● 47.5% 2.04 | ● 48.6% 2.04 | ● 43.0% 1.97 | ● 45.6% 2.06

CHEMISTRY: ● 45.6% | ● 46.95% | ● 46.9% | ● 52.1% | ● 50.6% | ● 54.5%

SECTION: 1 2 3 4 5 6 7 CC

METERS: 0.5 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES: *

SAMPLES: * PAL

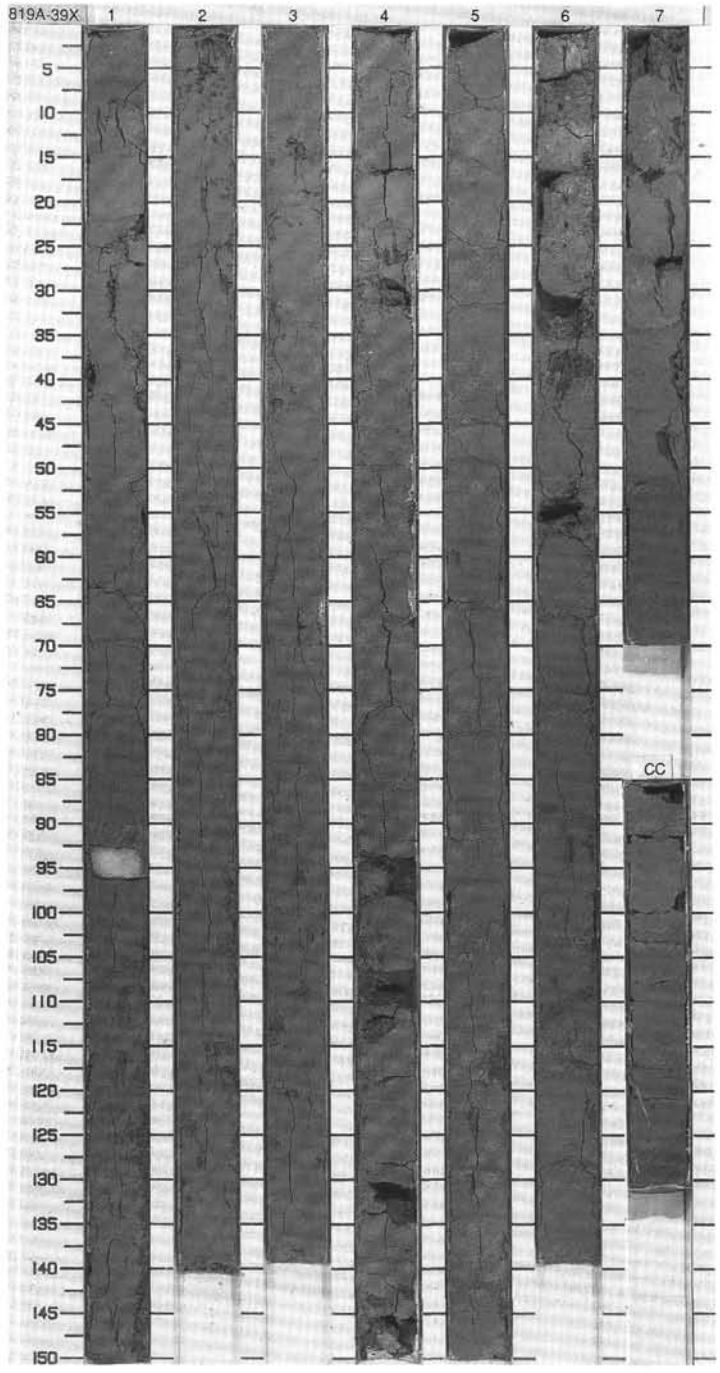
LITHOLOGIC DESCRIPTION

CLAYEY CHALK with NANNOFOSSILS BIOCLASTS, LITHOCLASTS, MICRITE and SILICICLASTIC GRAINS

Major Lithology: Slightly bioturbated, dark greenish gray (5GY 4/1) CLAYEY CHALK with NANNOFOSSILS BIOCLASTS, LITHOCLASTS, MICRITE, and SILICICLASTIC GRAINS. Unit becomes more clayey in Section 3 and micritic below Section 2.

SMEAR SLIDE SUMMARY (%):

	2, 83 D	4, 89 D
COMPOSITION:		
Bioclast	15	15
Clay	5	10
Collophane	---	3
Dolomite	8	---
Feldspar	2	3
Foraminifers	8	5
Intraclasts	10	10
Micrite	12	27
Nannofossils	20	10
Quartz	15	10
Siliceous sponge spicules	2	3
Tunicate	3	4



SITE 819 HOLE A CORE 40X CORED INTERVAL 351.5-361.1 mbsf

TIME-ROCK UNIT	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLEISTOCENE	N22 - N23	CN13b			R	●39.8% 2.03	35.6% ●	1	0.5, 1.0	VOID			
					R	●42.7% 2.11	● 36.6%	2					*
					R	●40.9% 2.11	● 49.45	3					
					R	●41.6% 2.07	● 45.8%	4					
					R	●41.6% 2.07	●51.0%	5					*
					R	●43.0% 2.12	● 51.4%	6					
					R	● 41.85 2.09	● 49.0% ● 44.9%	7					IW
	R/G	A/G						CC					PAL

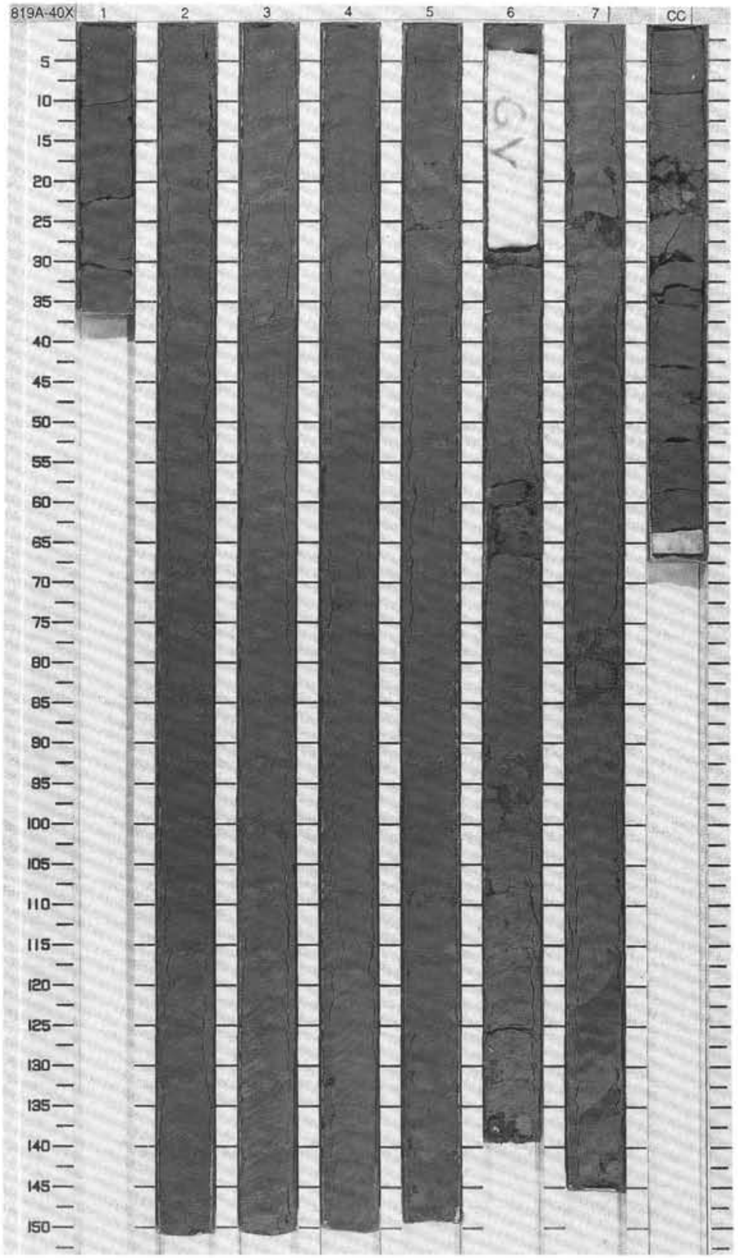
LITHOLOGIC DESCRIPTION

MICRITIC CLAYEY CHALK with NANNOFOSSILS, BIOCLASTS, LITHOCLASTS, MICRITE and SILICICLASTIC GRAINS

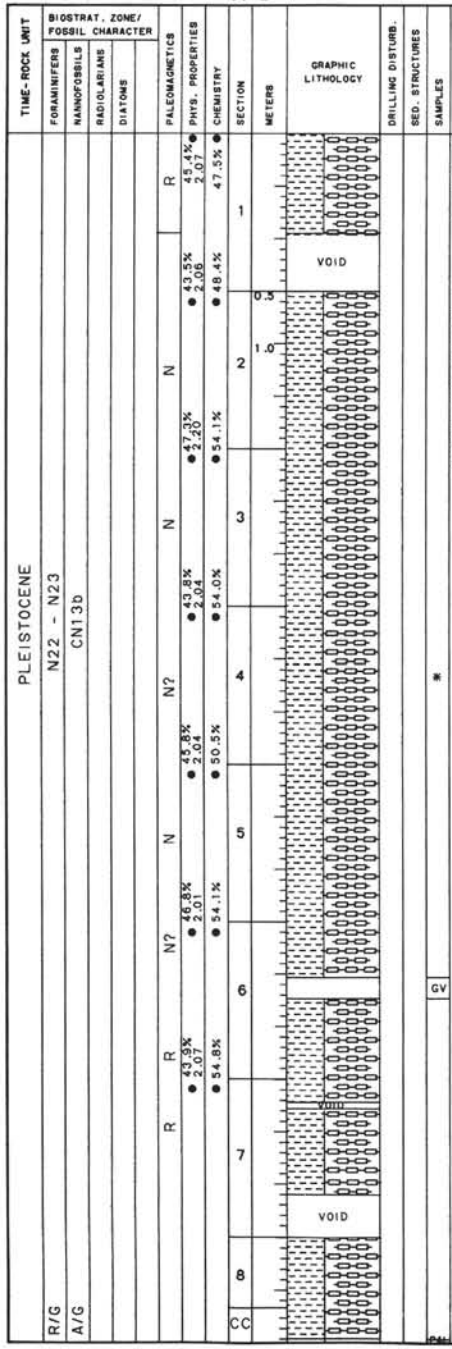
Major Lithology: Slightly bioturbated, dark greenish gray (5GY 4/1) MICRITIC CLAYEY CHALK with NANNOFOSSILS, BIOCLASTS, LITHOCLASTS, MICRITE, and SILICICLASTIC GRAINS. Clay content appears to increase down core.

SMEAR SLIDE SUMMARY (%):

	2, 80	5, 77
	D	D
COMPOSITION:		
Bioclast	15	10
Clay	15	20
Collophane	---	3
Dolomite	5	---
Feldspar	2	1
Foraminifers	5	3
Glauconite	---	Tr
Intraclast	10	17
Micrite	20	25
Nannofossils	10	10
Quartz	8	5
Siliceous sponge spicules	2	2
Tunicate	5	3



SITE 819 HOLE A CORE 41X CORED INTERVAL 361.1-370.8 mbsf



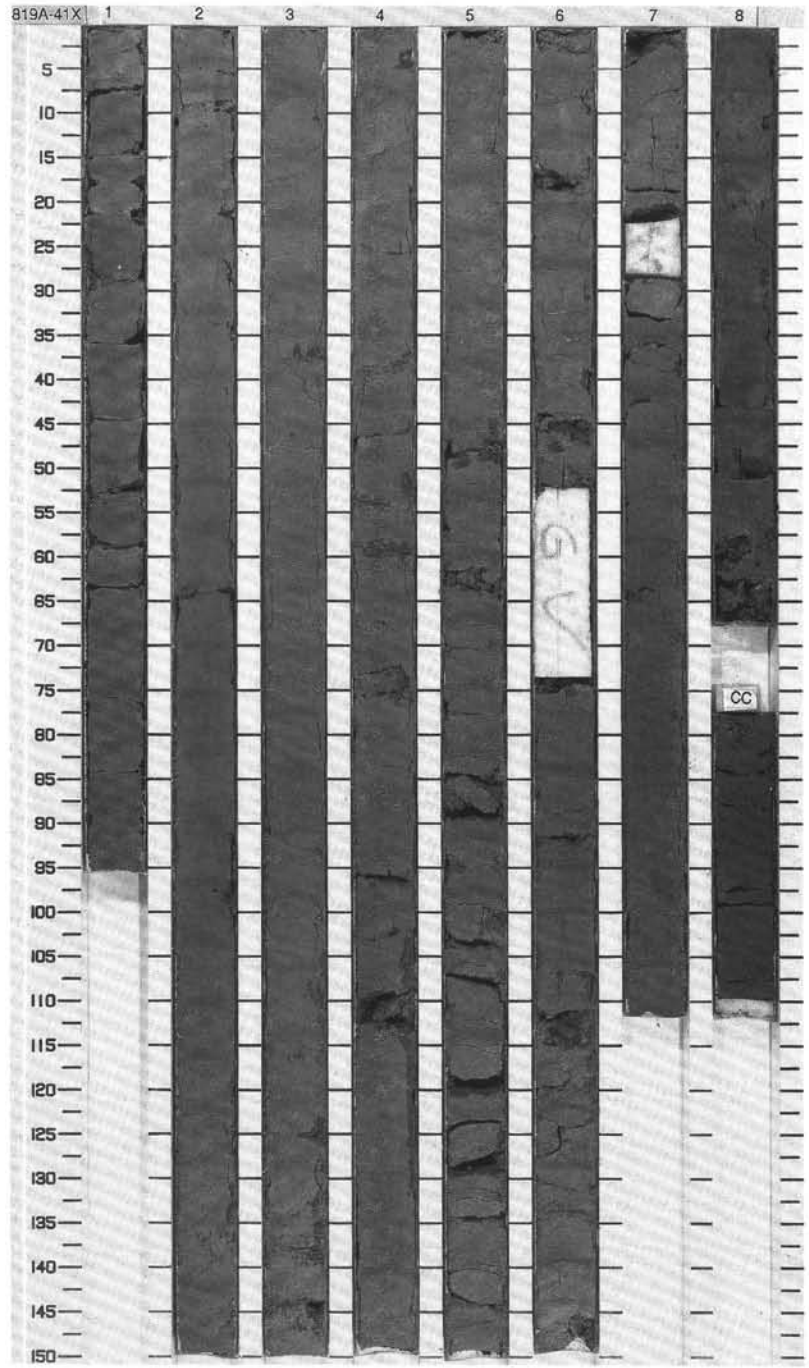
LITHOLOGIC DESCRIPTION

MICRITIC BIOCLASTIC CLAYEY CHALK with NANNOFOSSILS and SILICICLASTIC GRAINS

Major Lithology: Slightly bioturbated, dark greenish gray (5GY 4/1) MICRITIC BIOCLASTIC CLAYEY CHALK with NANNOFOSSILS and SILICICLASTIC GRAINS.

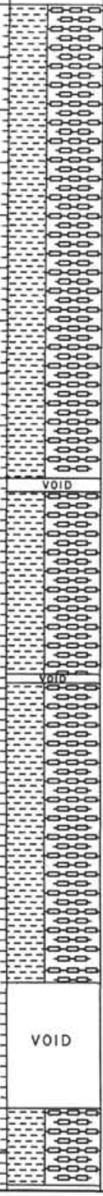
SMEAR SLIDE SUMMARY (%):

	4, 67
	D
COMPOSITION:	
Bioclast	26
Clay	13
Feldspar	2
Foraminifers	5
Inorganic calcite	10
Micrite	12
Nannofossils	14
Polyquartz	1
Quartz	7
Siliceous sponge spicules	5
Spicules	Tr
Tunicate	5



SITE 819 HOLE A CORE 42X CORED INTERVAL 370.8-380.4 mbsf

TIME-ROCK UNIT	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLEISTOCENE	N22 - N23	CN13b			N	• 45.0% • 2.00; • 42.4% • 2.15	• 49.9%; • 57.4%	1	0.5, 1.0				
					N	• 2.98% • 2.09	• 53.15%	2					
					N	• 42.8% • 2.11	• 41.9%	3		VOID			GV
					N	• 43.3% • 2.05	• 49.5%	4					*
					N	• 45.5% • 2.08	• 44.4%	5		VOID			
					N, R, R			6					
					N			7		VOID			
					N			8					
	R/G	A/G						CC					PAL



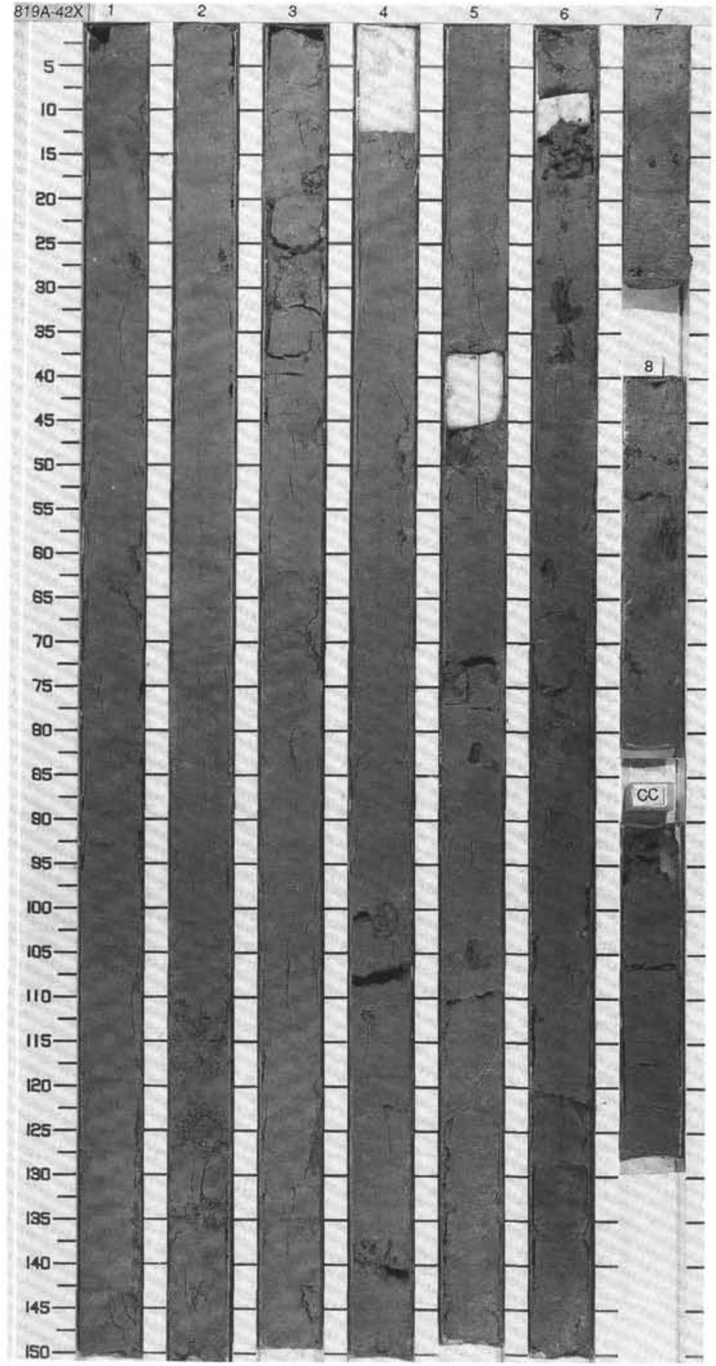
LITHOLOGIC DESCRIPTION

MICRITIC CLAYEY CHALK with BIOCLASTS and NANNOFOSSILS to BIOCLASTIC CLAYEY CHALK with NANNOFOSSILS and SILICICLASTIC GRAINS

Major Lithology: Slightly bioturbated, dark greenish gray (5GY 4/1) MICRITIC CLAYEY CHALK with BIOCLASTS and NANNOFOSSILS in Section 1 to a greenish gray (5GY 6/1) BIOCLASTIC CLAYEY CHALK with NANNOFOSSILS and SILICICLASTIC GRAINS in Sections 2 - CC. Lithologic transition is gradational through Section 2.

SMEAR SLIDE SUMMARY (%):

	4, 94
	D
COMPOSITION:	
Bioclast	30
Clay	15
Feldspar	3
Foraminifers	2
Lithoclast	5
Micrite	11
Nannofossils	22
Quartz	10
Spicules	Tr
Tunicate	Tr



SITE 819 HOLE A CORE 43X CORED INTERVAL 380.4-390.0 mbsf

TIME-ROCK UNIT	FORAMINIFERS	NANNOFOSSILS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	GRAPHIC LITHOLOGY	SAMPLES
PLEISTOCENE	N22 - N23	CN13b	N	● 42.3% 2.14	● 43.5%	1	VOID	
				● 44.3% 2.12	● 47.5%			
			R	● 43.2% 2.21	● 45.8%	2		
			R	● 37.6% 1.85	● 39.55%	3		
			R	● 43.8% 2.15	● 43.3%	4	VOID	*
			R	● 42.5% 2.10	● 46.0%	5		
			R			6	VOID	
			R			7	VOID / VOID	
			R			8		
	R/G	A/G				CC		PAL

Other column heads: BIOSTRAT. ZONE/FOSSIL CHARACTER; RADIOLARIANS; DIATOMS; METERS (0.5, 1.0); DRILLING DISTURB.; SED. STRUCTURES.

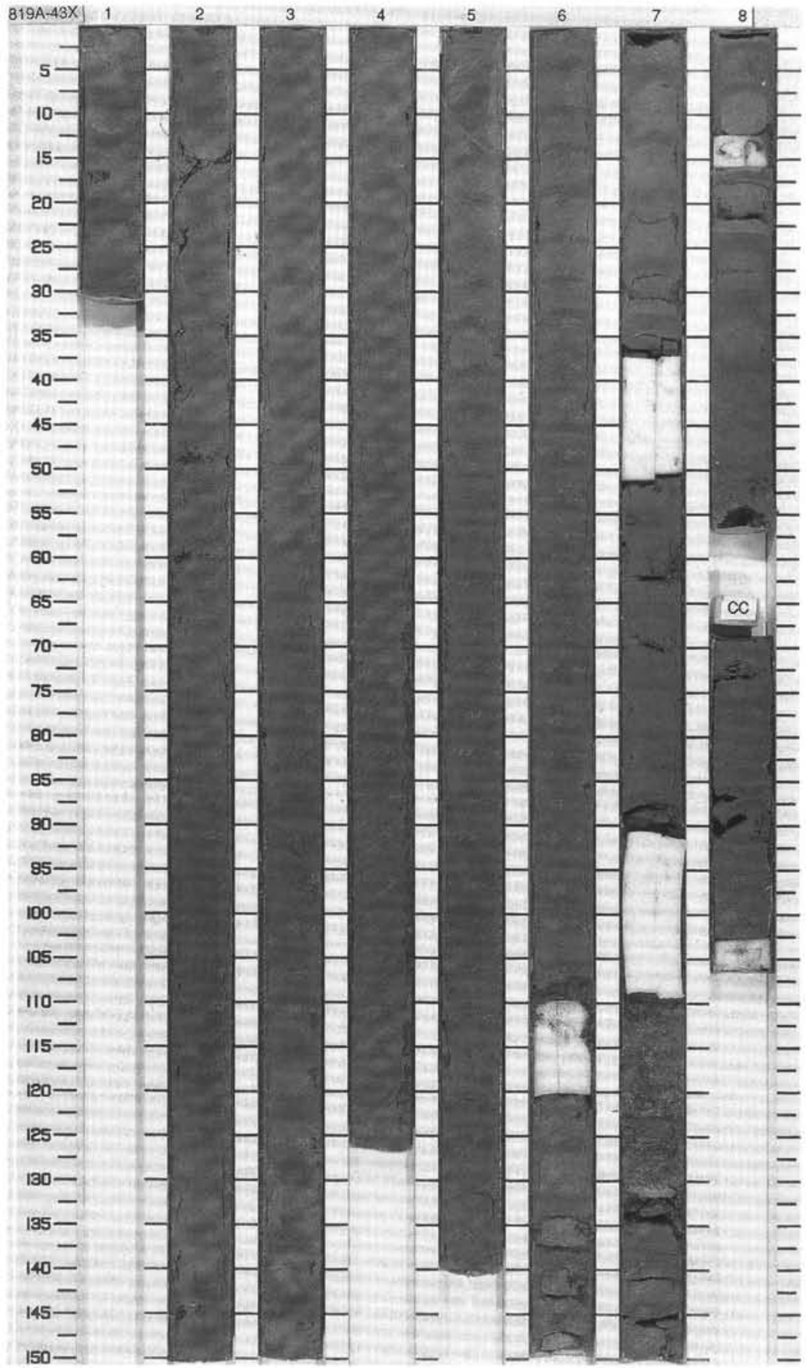
LITHOLOGIC DESCRIPTION

BIOCLASTIC CLAYEY CHALK with NANNOFOSSILS

Major Lithology: Slightly bioturbated, dark greenish gray (5GY 4/1) BIOCLASTIC CLAYEY CHALK with NANNOFOSSILS.

SMEAR SLIDE SUMMARY (%):

	4, 71 D
COMPOSITION:	
Bioclast	30
Clay	15
Feldspar	2
Foraminifers	4
Intraclasts	10
Lithoclast	5
Micrite	5
Nannofossils	20
Quartz	7
Tunicate	1



SITE 819 HOLE A CORE 44X CORED INTERVAL 390.0-400.0 mbsf

TIME-ROCK UNIT	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLEISTOCENE	N22 - N23	CN13b						1	0.5, 1.0	VOID			
					R	● 43.4% ● 2.01	● 59.2%	2					
					R	● 45.6% ● 2.07	● 51.7%	3					
					R	● 41.9% ● 2.06	● 53.0%	4					
					R	● 41.4% ● 2.13	● 48.4%	5		VOID			
					R	● 43.5% ● 2.03	● 47.4%	6					
					R	● 49.2% ● 1.95	● 39.2%	7					
					R			8					
	R/G	A/G						CC					PAL

LITHOLOGIC DESCRIPTION

BIOCLASTIC CLAYEY CHALK with NANNOFOSSILS

Major Lithology: Slightly bioturbated, dark greenish gray (5GY 4/1) BIOCLASTIC CLAYEY CHALK with NANNOFOSSILS.