SITE 790 HOLE A CORE 1H CORED INTERVAL 0.0-8.8 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
QUATERNARY	N23	CN15	A/G	R/G		ϕ=73.2 ρ=1.54		6				◇	*
						ϕ=68.7 ρ=1.54	%CaCO3 =1.2	5				◇◇	*
						ϕ=69.3 ρ=1.52	%CaCO3 =1.5	4					*
						ϕ=70.9 ρ=1.54	%CaCO3 =1.8	3					*
								2					*
								1					*
			UPPER PLIOCENE-RECENT	R/G				CC					

LITHOLOGIC DESCRIPTION

CLAYEY VITRIC SILT, VITRIC SILT, PUMICEOUS SAND AND PUMICEOUS GRAVEL

Major lithologies:
The uppermost 98 cm (11%) of the core is a CLAYEY VITRIC SILT, with a 5-cm dark brown (10YR 3/3) top rich in amorphous iron-oxide aggregates. The rest of the core is dark gray and gray (5Y 4/1, 5Y 5/1). This unit grades downward into a gray (5Y 5/1) and dark gray (5Y 4/1) VITRIC SILT 3.1 m thick (35% of the core), which is succeeded by 4.7 m (53% of core) of dark gray, gray, and light olive gray (5Y 4/1, 5/1, 5/2), coarse, very poorly sorted, gravelly PUMICEOUS SAND and PUMICEOUS GRAVEL that is, in large part, very badly disturbed by drilling.

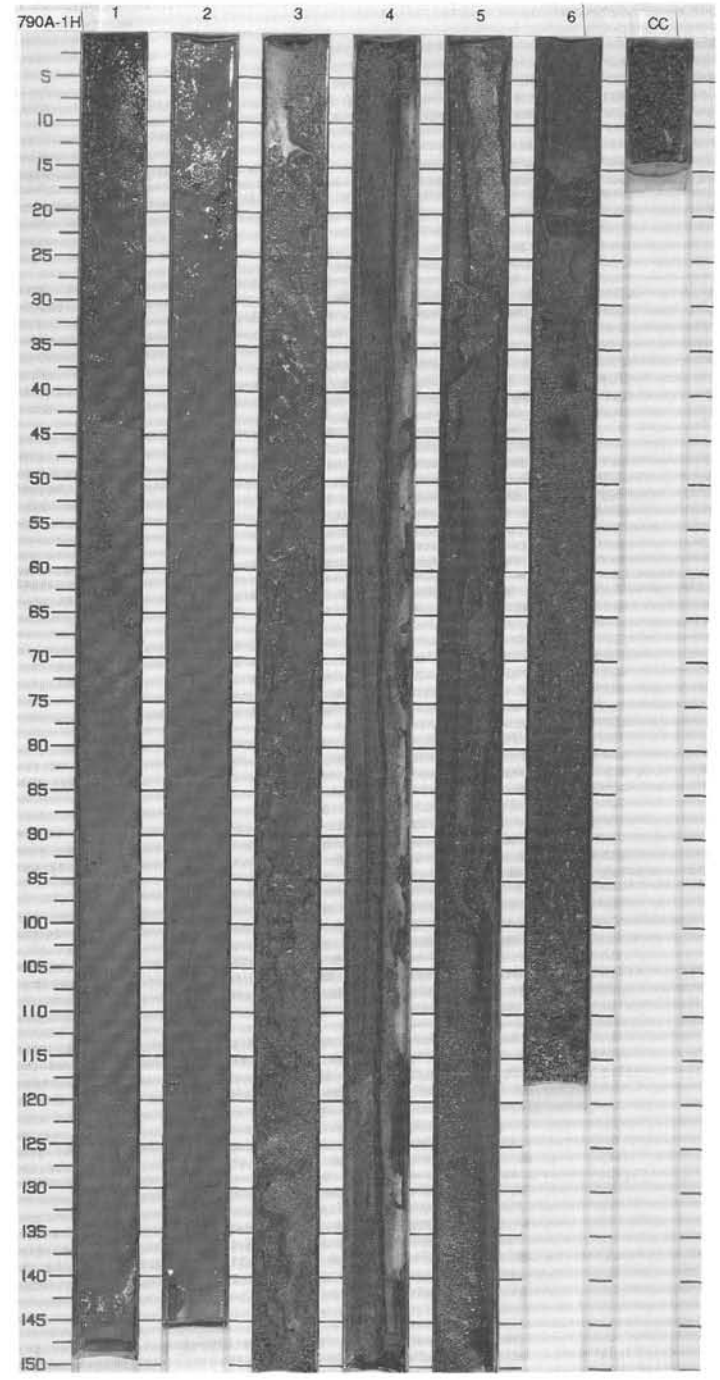
Minor lithology: Two 1-2 cm thick layers of VITRIC SILT occur near the top of Section 6.

SMEAR SLIDE SUMMARY (%):

	1, 2 D	1, 30 D	1, 50 D	1, 93 D	2, 21 M	2, 50 D	2, 129 D
TEXTURE:							
Sand	5	10	5	—	3	10	20
Silt	50	60	70	90	77	90	80
Clay	45	30	25	10	20	—	Tr
COMPOSITION:							
Accessory minerals	—	Tr	—	—	—	—	—
Clay	30	30	25	10	10	—	Tr
Diatoms	1	1	1	1	—	---	----
Feldspar	1	1	1	Tr	1	2	1
Foraminifers	1	1	1	—	Tr	—	—
Glass	65	65	69	89	64	97	96
Lithic fragments	—	—	—	—	—	1	1
Micrite	—	Tr	—	—	—	—	Tr
Oxide	1	1	—	—	25	—	—
Spicules	1	1	1	—	—	—	—

SMEAR SLIDE SUMMARY (%):

	3, 30 D	3, 114 D	4, 60 D	6, 10 D
TEXTURE:				
Sand	60	90	80	95
Silt	40	10	20	5
COMPOSITION:				
Bioclast	—	—	1	1
Feldspar	1	5	1	20
Foraminifers	Tr	2	Tr	1
Glass	96	93	95	71
Lithic fragments	1	—	2	2
Micrite	1	—	—	—
Nannofossils	—	—	—	Tr
Opaques	1	—	1	2
Pyroxene	Tr	—	—	3



SITE 790 HOLE A CORE 2H CORED INTERVAL 8.8-18.3 mbsf

TIME-ROCK UNIT	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
QUATERNARY	N23	CN15	R/G	R/G		ρ=76.4 γ=1.54	%CaCO3=18.5	3	0.5 1.0			WR IW	*
						ρ=69.2 γ=1.62	%CaCO3=14.7	6					*
	C/G	R/G						7					*
								CC					

	1, 18 D	1, 102 D	1, 120 D	2, 17 D	2, 27 D	2, 60 D	2, 114 D
TEXTURE:							
Sand	1	25	3	10	80	15	—
Silt	59	65	32	90	20	35	95
Clay	40	10	65	—	—	50	5
COMPOSITION:							
Accessory minerals	—	—	—	—	—	—	1
Clay	33	5	61	—	—	48	5
Diatoms	15	—	10	Tr	—	10	Tr
Feldspar	—	10	—	2	1	2	—
Foraminifers	3	—	2	Tr	2	3	—
Glass	5	50	2	97	93	5	92
Micrite	—	—	—	—	Tr	—	—
Nannofossils	40	30	20	1	Tr	30	2
Opaques	—	—	—	—	1	—	—
Oxide	2	3	2	—	—	1	—
Pyroxene	—	2	—	—	1	—	—
Radiolarians	—	—	1	—	—	1	Tr
Silicoflagellates	Tr	—	—	—	Tr	Tr	—
Spicules	2	—	1	—	1	Tr	Tr

SMEAR SLIDE SUMMARY (%):

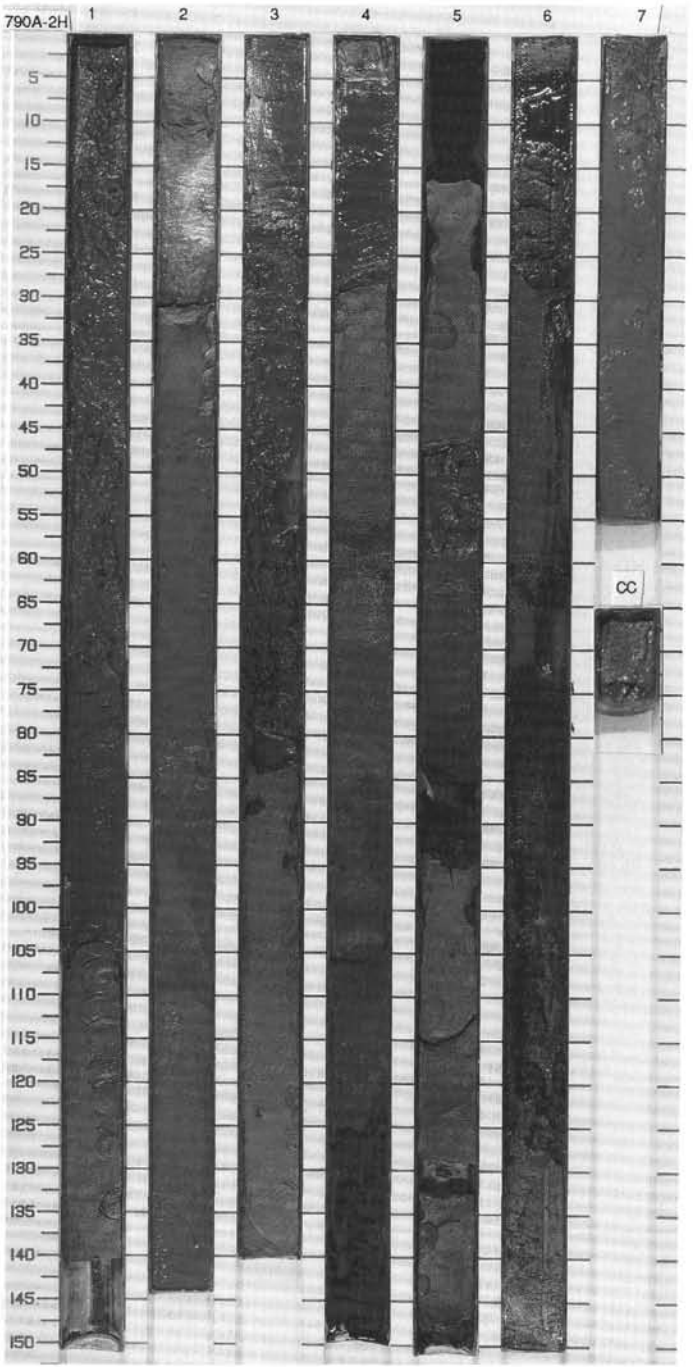
	3, 4 D	3, 20 D	3, 60 D	3, 120 D	4, 24 D	4, 40 D	4, 95 D
TEXTURE:							
Sand	90	5	88	2	75	5	70
Silt	10	95	10	28	15	30	20
Clay	—	—	2	70	10	65	10
COMPOSITION:							
Accessory minerals	—	—	2	—	2	—	
Clay	—	—	—	67	10	63	10
Diatoms	—	—	—	7	—	10	—
Feldspar	5	5	2	1	15	Tr	5
Foraminifers	2	—	Tr	3	—	1	—
Glass	93	95	91	5	63	5	67
Lithic fragments	—	—	5	—	10	—	15
Nannofossils	—	—	Tr	15	Tr	20	1
Radiolarians	—	—	—	1	—	1	—
Silicoflagellates	—	—	—	Tr	—	—	—
Spicules	—	—	—	1	—	Tr	—

LITHOLOGIC DESCRIPTION

VITRIC SILT, NANNOFOSSIL-RICH SILTY CLAY, AND VITRIC SAND

Major lithologies:
Dark gray (5Y 4/1, 4/2) VITRIC SILT beds, 25 to 120 cm thick, that comprise 40% of the core, interbedded with olive gray (5Y 4/2) NANNOFOSSIL-RICH SILTY CLAY beds, 25-80 cm thick (36% of recovery), and five layers of black (N2, 5YR 2/1) VITRIC SAND that together constitute 24% of the core. Some of the sandy and silty intervals are graded, and several are planar-laminated.

cont.



SITE 790 HOLE A CORE 2H CORED INTERVAL 8.8-18.3 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
															(cont.)

SMEAR SLIDE SUMMARY (%):

	4, 120 D	5, 20 D	5, 52 D	5, 80 D	5, 131 D	6, 9 D	6, 136 D
TEXTURE:							
Sand	70	3	45	50	75	70	15
Silt	25	47	50	45	15	20	50
Clay	5	50	5	5	10	10	35
COMPOSITION:							
Accessory minerals	—	—	1	1	Tr	5	—
Clay	—	46	5	5	10	10	37
Diatoms	—	15	Tr	—	Tr	Tr	10
Feldspar	15	2	3	7	5	15	—
Foraminifers	1	—	—	—	—	—	2
Glass	72	10	70	20	70	54	35
Lithic fragments	10	—	20	67	10	15	—
Nannofossils	Tr	25	1	—	5	1	15
Oxide	—	2	—	—	—	—	—
Pyroxene	2	—	—	—	—	—	—
Quartz	—	—	—	—	—	Tr	—
Radiolarians	—	Tr	—	—	Tr	—	—
Silicoflagellates	—	Tr	—	—	—	—	—
Spicules	—	Tr	—	—	—	—	1

SMEAR SLIDE SUMMARY (%):

	7, 40 D
TEXTURE:	
Sand	20
Silt	75
Clay	5
COMPOSITION:	
Accessory minerals	1
Clay	5
Diatoms	Tr
Feldspar	2
Foraminifers	Tr
Glass	90
Nannofossils	2

SITE 790 HOLE A CORE 3H CORED INTERVAL 18.3-27.8 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
QUATERNARY	N23	CN15	C/G	R/G		● ϕ=65.8 ρ=1.56 ● ϕ=65.8 ρ=1.61 ● ϕ=66.0 ρ=1.63	● %$CaCO_3$=1.9 ● %$CaCO_3$=1.5 ● %$CaCO_3$=1.3 ● %$CaCO_3$ =1.2	1 2 3 4 5 6 7 CC	0.5 1.0				PP OG IW OG IW

LITHOLOGIC DESCRIPTION

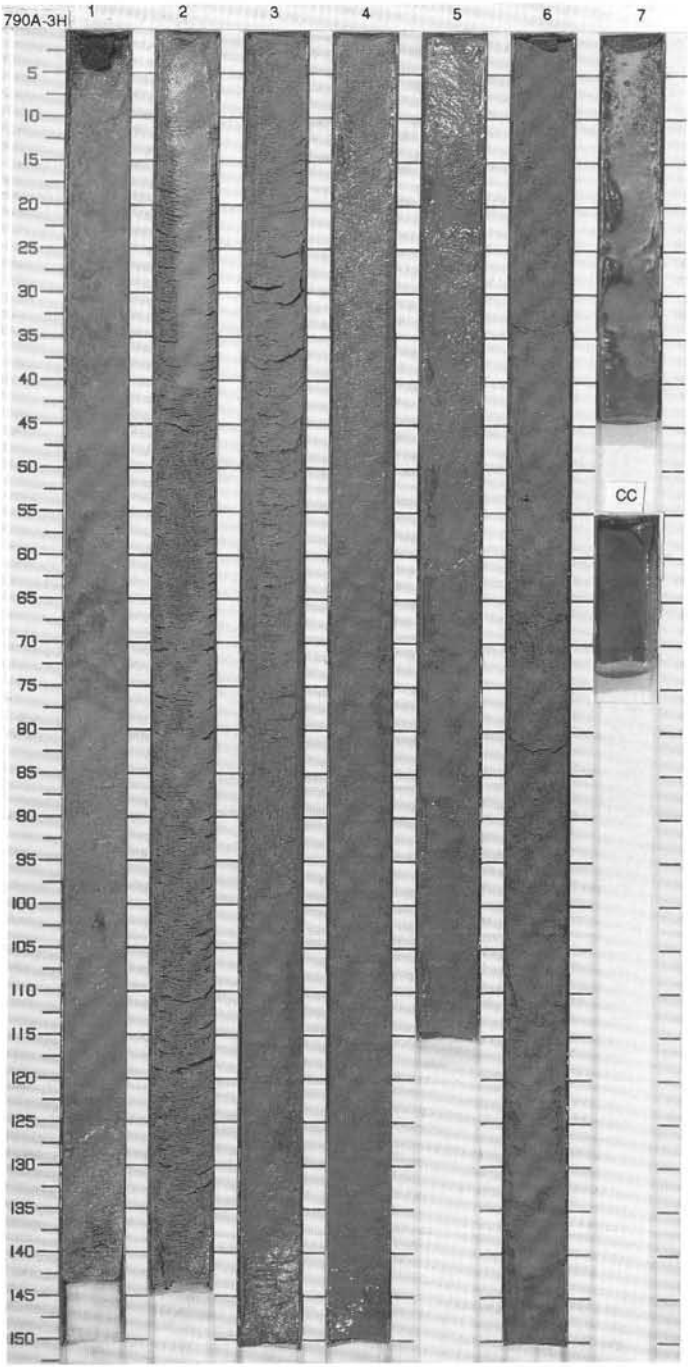
VITRIC SILT

Major lithology: Gray (5Y 6/1) VITRIC SILT consisting of 92-97% glass, with a few percent of siliceous microfossils (diatoms, radiolarians, sponge spicules, and silicoflagellates). The core is almost structureless except for small graded intervals in Sections 1 and 3, and a few scattered thin bedded zones.

Minor lithology: Gray (5Y 6/1) fine VITRIC SAND layers, 2 cm thick, occur in Section 1.

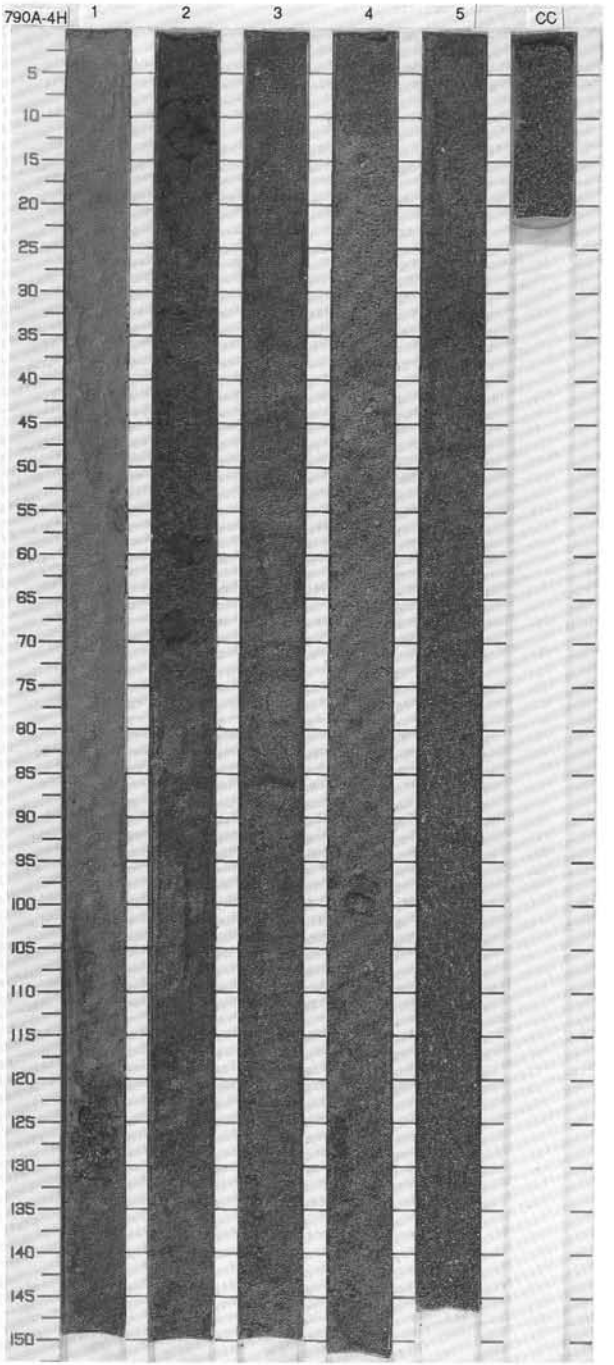
SMEAR SLIDE SUMMARY (%):

	1, 90 D	3, 90 D
TEXTURE:		
Sand	5	3
Silt	95	97
COMPOSITION:		
Diatoms	3	2
Glass	92	97
Radiolanans	1	1
Silicoflagellates	2	—
Spicules	2	—



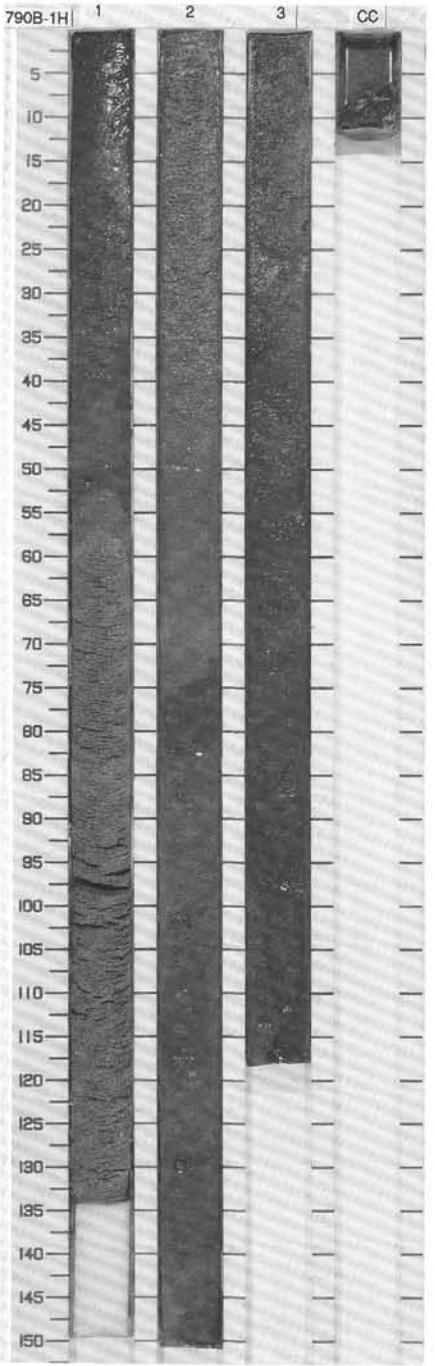
SITE 790 HOLE A CORE 4H CORED INTERVAL 27.8-37.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
QUATERNARY	N23	CN15	C/G	R/G		ρ=65.5 γ=1.55		1	0.5					VITRIC SAND Major lithology: Pebbly and very coarse to medium-grained VITRIC SAND that is mostly gray (N5), with minor intervals that are light gray (N7) and dark gray (N4, N3). Two graded intervals were noted, and indistinct bedding occurs in Sections 3 and 4. The sediment is badly disturbed by drilling. Minor lithology: Two intervals in Sections 2 and 4 consist of PUMICEOUS GRAVEL.
									1.0					
								2						
								3						
								4						
								5						
								CC						



SITE 790 HOLE B CORE 1H CORED INTERVAL 0.0-4.5 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
QUATERNARY	N23	A/G CN15				ρ=68.2 ϕ=1.53	%CaCO3 =2.4	1	0.5			◇	*	VITRIC SILT AND CLAYEY VITRIC SILT Major lithologies: Gray (5Y 6/1) VITRIC SILT, in beds 11-111 cm thick, constitutes 50% of the core. The other 50% of the core consists of CLAYEY VITRIC SILT. The top of the core is a 15-cm moderate brown (5YR 3/4) CLAYEY VITRIC SILT rich in amorphous iron-oxide aggregates. Two other beds of this lithology, 138 and 48 cm thick ARE GRAY (5Y 6/1). SMEAR SLIDE SUMMARY (%): 1, 5 D TEXTURE: Silt 78 Clay 22 COMPOSITION: Clay 22 Diatoms 3 Feldspar 1 Glass 60 Oxide 10 Quartz 1 Radiolarians 3
		C/M CN15	R/G			ρ=68.7 ϕ=1.49	%CaCO3 =2.4	2	1.0					
						ρ=68.7 ϕ=1.54	%CaCO3 =1.1	3						
								CC						



SITE 790 HOLE B CORE 2H CORED INTERVAL 4.5-14.0 mbsf

TIME-ROCK UNIT: QUATERNARY; UPPER PLIOCENE-RECENT

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS: N23, C/G; NANNOFOSSILS: CN15, C/G; RADIOLARIANS: R/G; DIATOMS

PALEOMAGNETICS

PHYS. PROPERTIES: Φ=71.9, ρ=1.54; Φ=68.3, ρ=1.56; Φ=72.6, ρ=1.59; Φ=70.0, ρ=1.6; Φ=75.4, ρ=1.53; Φ=59.3, ρ=1.94; Φ=76.6, ρ=1.4

CHEMISTRY: %$CaCO_3$=19.8; %$CaCO_3$=0.9; %$CaCO_3$=16.2; %$CaCO_3$=30.9; %$CaCO_3$=1.3

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES

LITHOLOGIC DESCRIPTION

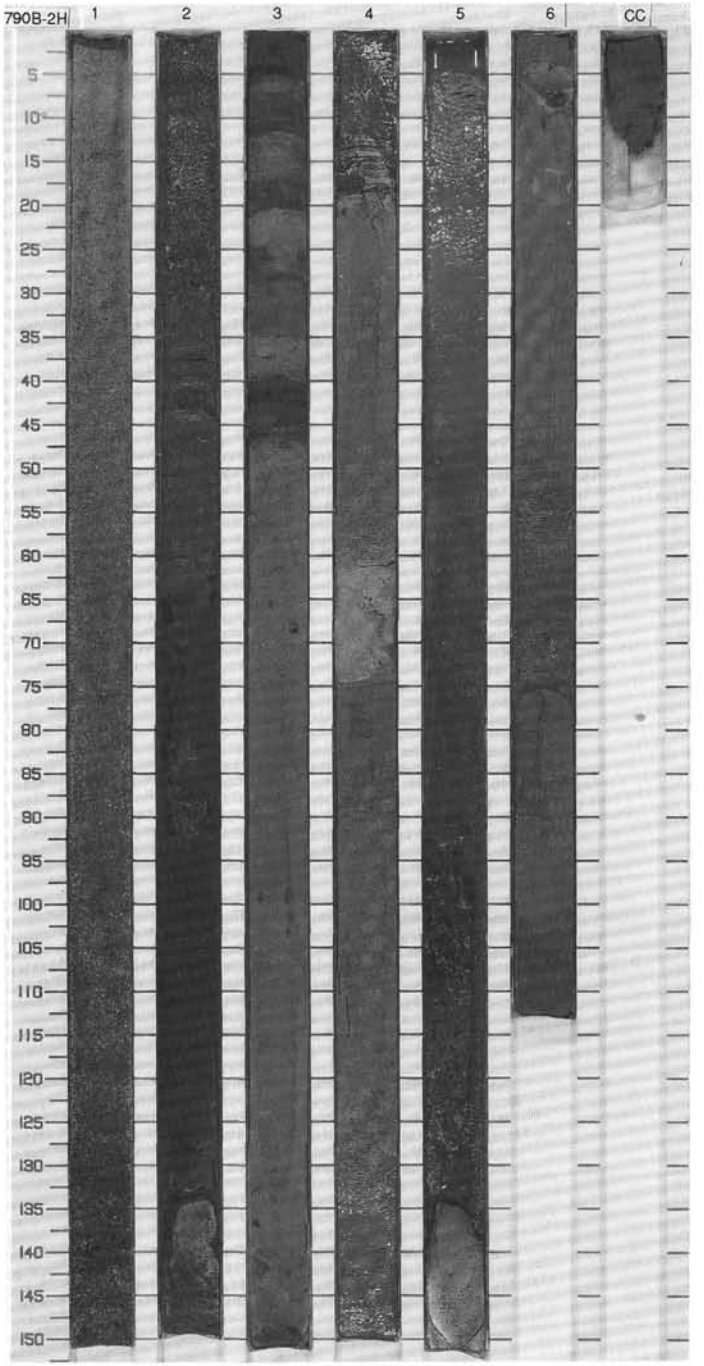
VITRIC SAND, VITRIC SILT, AND SILTY CLAY

Major lithologies:
Light olive gray (5Y 6/2), very dark gray (5Y 3/1) and black (N2) VITRIC SAND, in beds 54-138 cm thick, comprises 43% of the recovered core. Dark gray (5YR 4/1), black (5YR 2/1, N2) and dark red-dish gray (5YR 4/2) VITRIC SILT, several cm to 79 cm thick, constitutes 26% of the core. Several beds of these two lithologies are graded. Olive gray (5Y 4/2) NANNOFOSSIL SILTY CLAY and NANNOFOSSIL-RICH SILTY CLAY beds *varying in thickness from a few cm to 100 cm comprise the remaining* 31% of the core. The following stratigraphic horizons correlate with their equivalents in Hole 790A as follows:

790B				790 A	
C	SI	C	S	I	
2	4	18	2	1	104
2	4	74	2	2	30
2	5	138	2	3	83

SMEAR SLIDE SUMMARY (%):

	3, 36 D	3, 40 D
TEXTURE:		
Sand	2	5
Silt	64	85
Clay	34	10
COMPOSITION:		
Clay	34	10
Diatoms	20	—
Feldspar	1	7
Foraminifers	2	—
Glass	—	82
Lithic fragments	Tr	Tr
Nannofossils	40	Tr
Oxide	1	—
Radiolarians	1	1
Silicoflagellates	1	Tr
Spicules	Tr	—



SITE 790 HOLE B CORE 3H CORED INTERVAL 14.0-23.5 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
QUATERNARY	N23	CN15	C/G	F/M	C/M	R/G	UPPER PLIOCENE-RECENT	ϕ=67.7 ρ=1.62	ϕ=67.4 ρ=1.44	ϕ=50.3 ρ=1.85	ϕ=55.9 ρ=2.0		1 2 3 4 5 6 1 CC	0.5 1.0					*

LITHOLOGIC DESCRIPTION

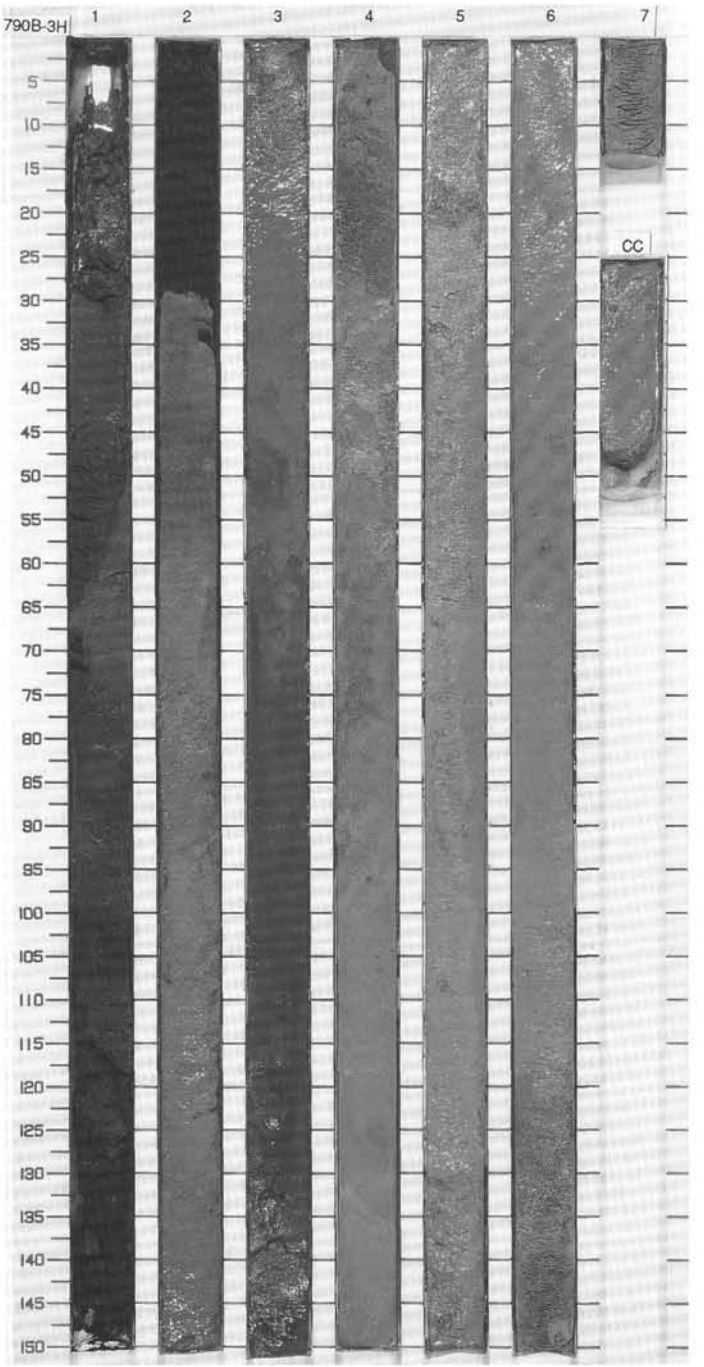
VITRIC SILT AND VITRIC SAND

Major lithologies:
Olive gray (5Y 5/2), gray (5Y 6/1), dark gray (5Y 4/1) and black VITRIC SILT beds, 11-290 cm thick, constitute 75% of the recovered core. Associated with this lithology, and comprising 15% of the core are three olive gray to black (5Y 4/2, -3/2; N2) VITRIC SAND beds 862 cm thick. Two of these are graded, and one has planar laminations.

Minor lithology: There are four beds, 15-28 cm thick, of dark gray and black (5Y 3/2, -4/1) NANNOFOSSIL-RICH SILTY CLAY.

SMEAR SLIDE SUMMARY (%):

	1, 20 D
TEXTURE:	
Silt	50
Clay	50
COMPOSITION:	
Clay	50
Diatoms	20
Feldspar	2
Foraminifers	3
Glass	3
Micrite	Tr
Nannofossils	20
Oxide	1
Radiolarians	1
Silicoflagellates	Tr
Spicules	Tr



SITE 790 HOLE B CORE 4H CORED INTERVAL 23.5-33.0 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
QUATERNARY	N23	CN15	F/M	R/G		● 9=74.2 7=1.43		1	0.5				*
									1.0				
								2					
								3					
						● 9=67.6 7=1.58		4					
								5					
								6					*
								7 CC					

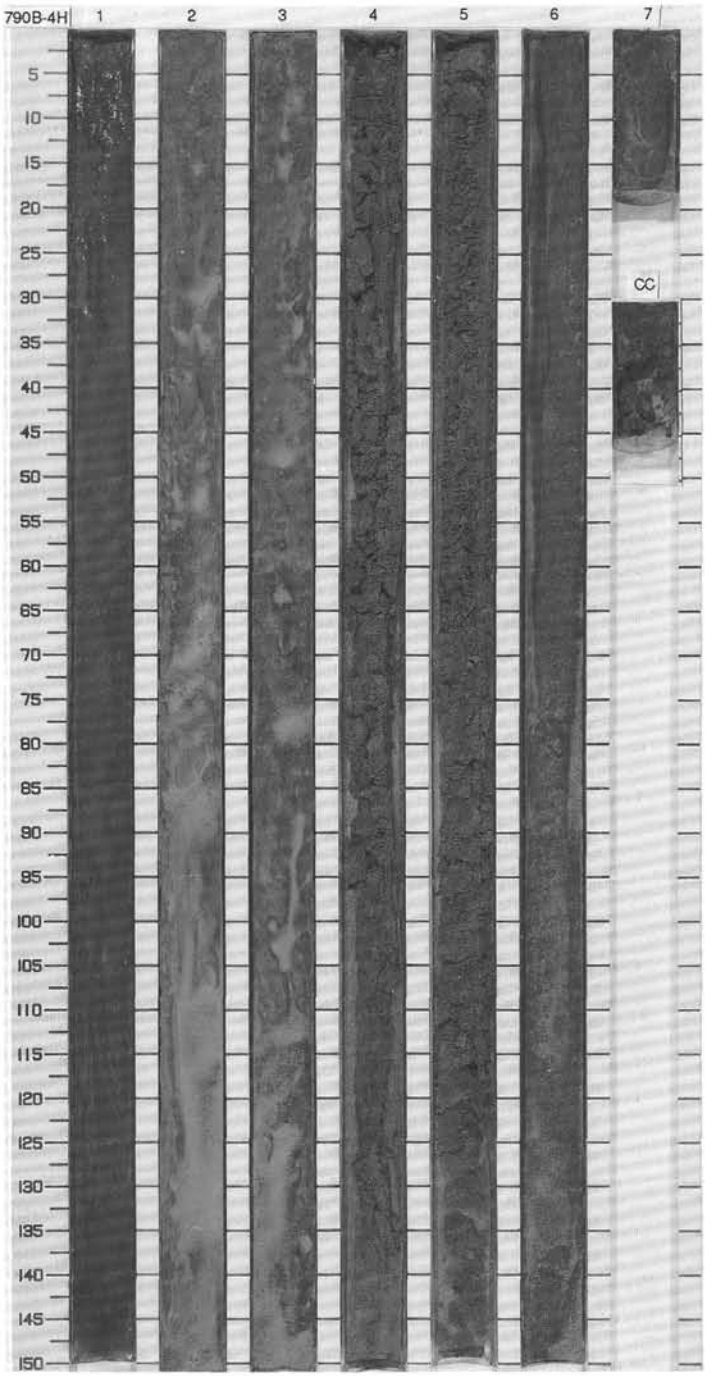
LITHOLOGIC DESCRIPTION

VITRIC SAND AND VITRIC SILT

Major lithologies:
This core, mostly rendered soupy by drilling disturbance, is dark gray to gray (5Y 5/1, 5Y 4/1) VITRIC SAND (82%) and VITRIC SILT (18%).

SMEAR SLIDE SUMMARY (%):

	1, 75 D	6, 69 D
TEXTURE:		
Sand	95	90
Silt	5	10
COMPOSITION:		
Feldspar	5	7
Foraminifers	Tr	—
Glass	95	78
Lithic fragments	Tr	5
Opaques	—	5
Pyroxene	—	5



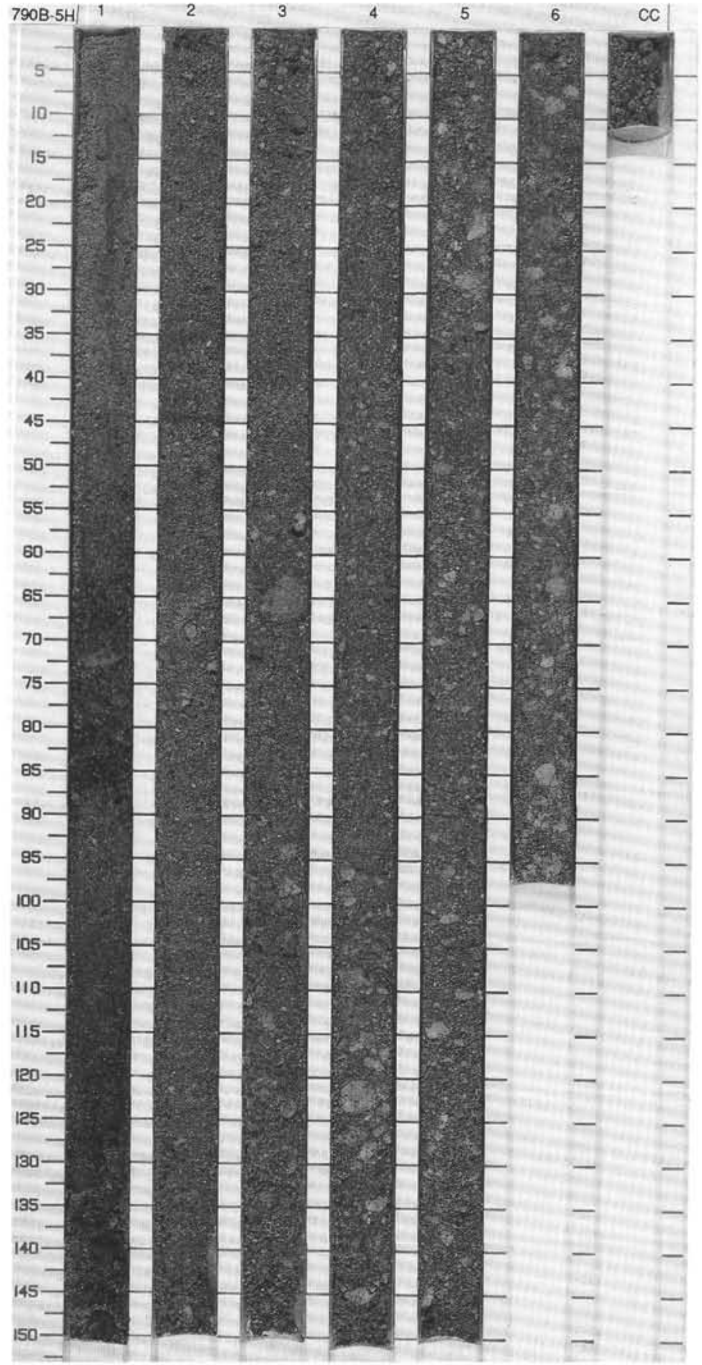
SITE 790 HOLE B CORE 5H CORED INTERVAL 33.0-42.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
QUATERNARY	N23	CN15 F/G	UPPER PLIOCENE-RECENT R/G			φ=56.9 γ=1.71; φ=73.2 γ=1.46		1, 2, 3, 4, 5, 6, CC	0.5, 1.0				

LITHOLOGIC DESCRIPTION

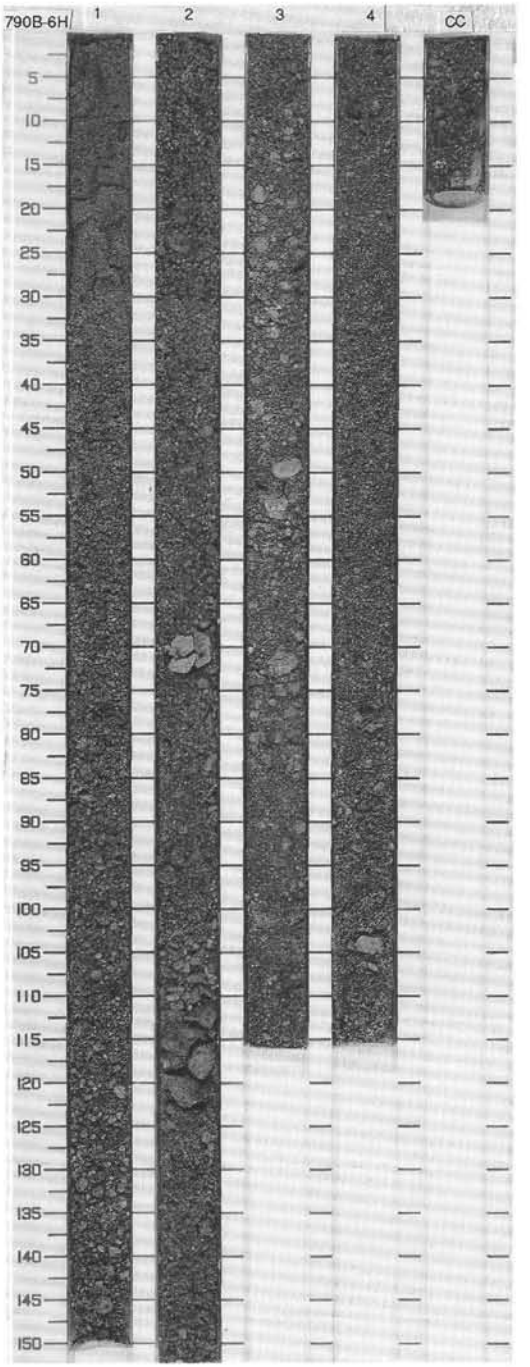
PUMICEOUS GRAVEL AND VITRIC SAND

Major lithologies:
Gray to very dark gray (5Y 6/1 -3/1), very coarse- to medium-grained, pebbly, pumiceous VITRIC SAND comprises the top 48% of the core. The lower 52% of the core is gray (5Y 6/1) PUMICEOUS GRAVEL with maximum clast sizes of 30-40 mm and average clast sizes of 3-8 mm.

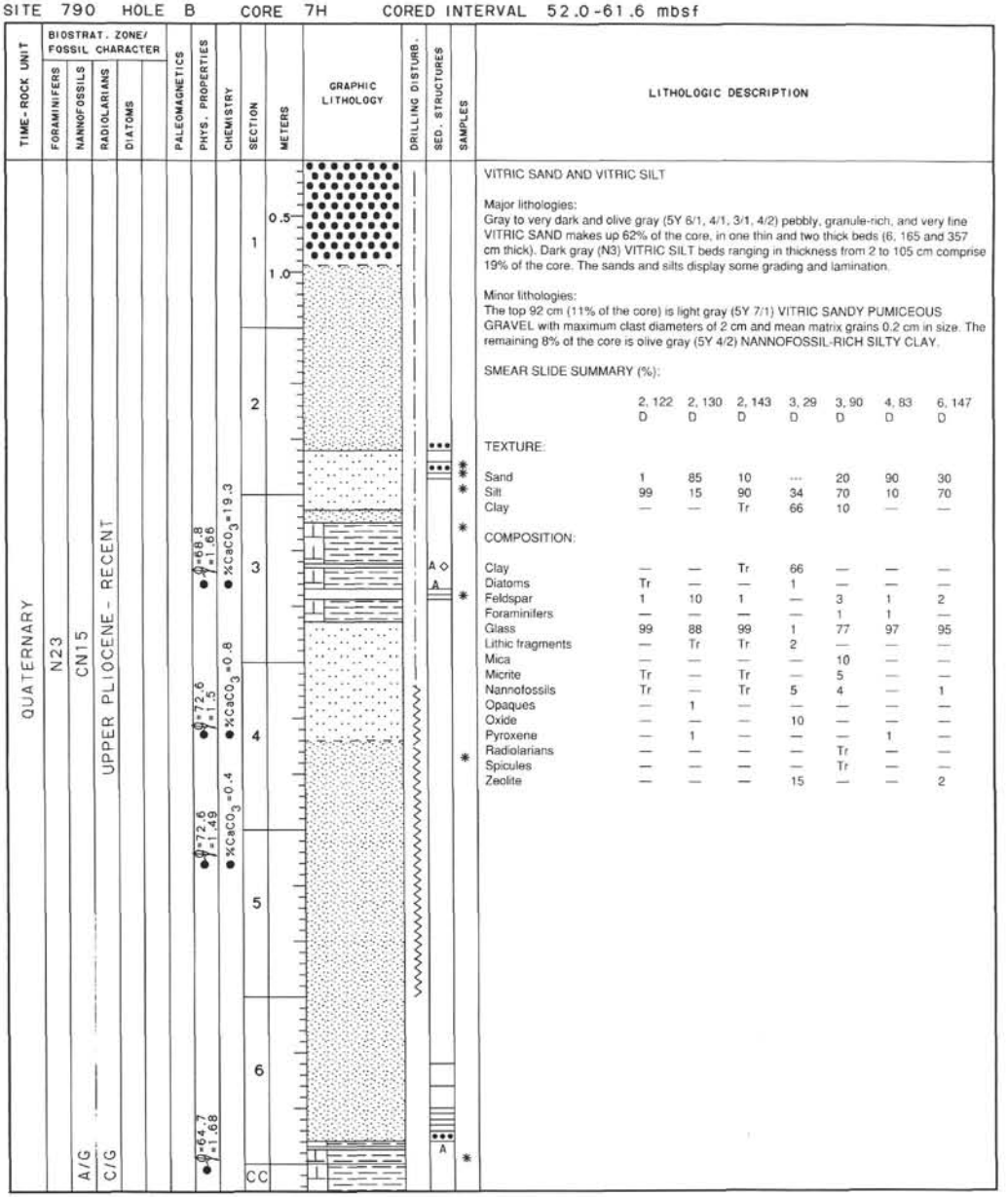


SITE 790 HOLE B CORE 6H CORED INTERVAL 42.5-52.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
QUATERNARY	N23	C/M CN15	UPPER PLIOCENE-RECENT	F/G R/G		ϕ=80.4 ψ=1.38	%$CaCO_3$=0.4	1 2 3 4 CC	0.5 1.0				OC IW	VITRIC SANDY PUMICEOUS GRAVEL Major lithology: 94% of the core is dark gray (5Y 4/1) VITRIC SANDY PUMICEOUS GRAVEL with maximum pebble sizes ranging from 20 to 50 cm, the sizes of matrix fragments typically 0.4 to 0.8 cm. Minor lithology: The top 30 cm, or 6% of the core, is gray (5Y 5/1) coarse VITRIC SAND.



SITE 790 HOLE B CORE 7H CORED INTERVAL 52.0-61.6 mbsf



LITHOLOGIC DESCRIPTION

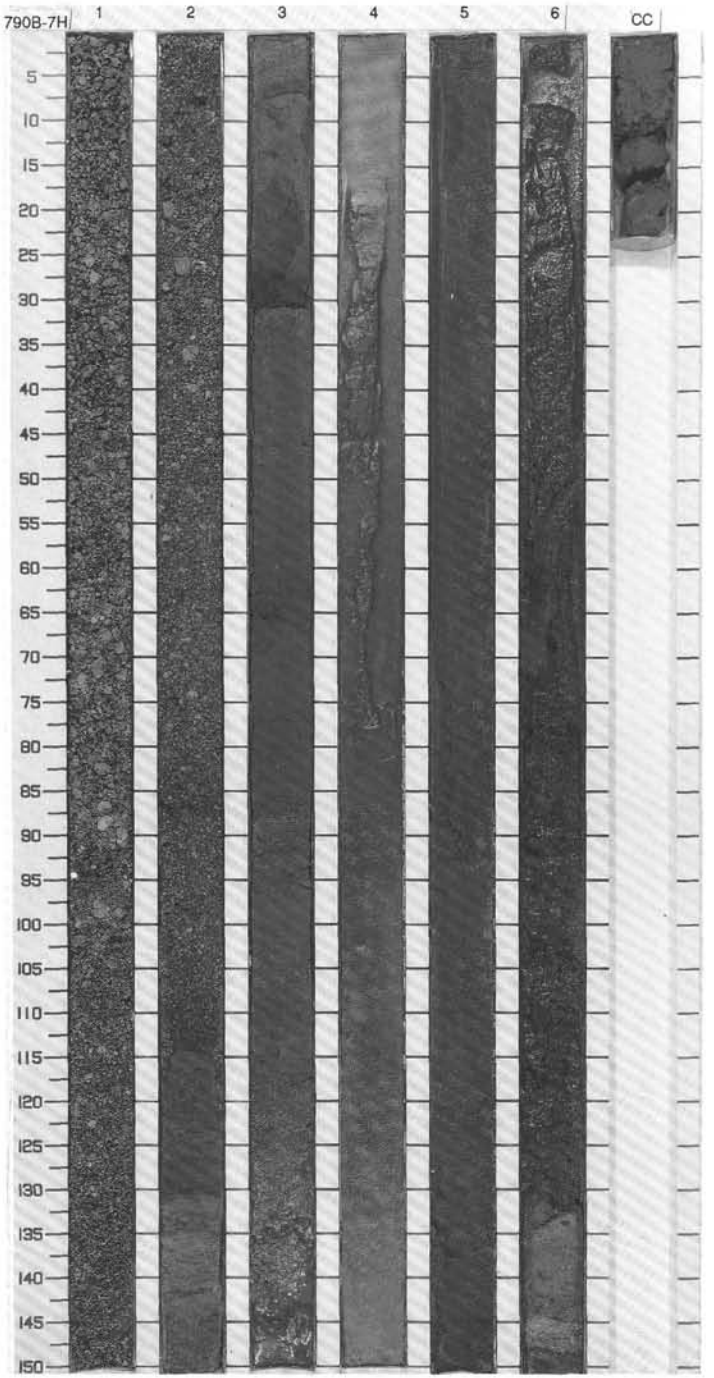
VITRIC SAND AND VITRIC SILT

Major lithologies:
Gray to very dark and olive gray (5Y 6/1, 4/1, 3/1, 4/2) pebbly, granule-rich, and very fine VITRIC SAND makes up 62% of the core, in one thin and two thick beds (6, 165 and 357 cm thick). Dark gray (N3) VITRIC SILT beds ranging in thickness from 2 to 105 cm comprise 19% of the core. The sands and silts display some grading and lamination.

Minor lithologies:
The top 92 cm (11% of the core) is light gray (5Y 7/1) VITRIC SANDY PUMICEOUS GRAVEL with maximum clast diameters of 2 cm and mean matrix grains 0.2 cm in size. The remaining 8% of the core is olive gray (5Y 4/2) NANNOFOSSIL-RICH SILTY CLAY.

SMEAR SLIDE SUMMARY (%):

	2, 122 D	2, 130 D	2, 143 D	3, 29 D	3, 90 D	4, 83 D	6, 147 D
TEXTURE:							
Sand	1	85	10	---	20	90	30
Silt	99	15	90	34	70	10	70
Clay	—	—	Tr	66	10	—	—
COMPOSITION:							
Clay	—	—	Tr	66	—	—	—
Diatoms	Tr	—	—	1	—	—	—
Feldspar	1	10	1	—	3	1	2
Foraminifers	—	—	—	—	1	1	—
Glass	99	88	99	1	77	97	95
Lithic fragments	—	Tr	Tr	2	—	—	—
Mica	—	—	—	—	10	—	—
Micrite	Tr	—	Tr	—	5	—	—
Nannofossils	Tr	—	Tr	5	4	—	1
Opaques	—	1	—	—	—	—	—
Oxide	—	—	—	10	—	—	—
Pyroxene	—	1	—	—	—	1	—
Radiolarians	—	—	—	—	Tr	—	—
Spicules	—	—	—	—	Tr	—	—
Zeolite	—	—	—	15	—	—	2



SITE 790 HOLE B CORE 8H CORED INTERVAL 61.6-71.3 mbsf

TIME-ROCK UNIT: PLEISTOCENE; UPPER PLIOCENE-RECENT

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS: N23; NANNOFOSSILS: CN15; RADIOLARIANS: A/G; DIATOMS: F/M; PALEOMAGNETICS: F/G; PHYS. PROPERTIES; CHEMISTRY; SECTION; METERS; GRAPHIC LITHOLOGY; DRILLING DISTURB.; SED. STRUCTURES; SAMPLES

PHYS. PROPERTIES: ϕ=64.7, ρ=1.68; ϕ=54.9, ρ=1.92; ϕ=65.7, ρ=1.67; ϕ=59.7, ρ=1.76; ϕ=66.7, ρ=1.67; ϕ=66.4, ρ=1.68; ϕ=67.9, ρ=1.74

CHEMISTRY: %$CaCO_3$=2.8; %$CaCO_3$=0.4; %$CaCO_3$=15.2; %$CaCO_3$=17.2; %$CaCO_3$=21.0; %$CaCO_3$=11.4

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

METERS: 0.5, 1.0

SED. STRUCTURES: A; A; A; A 41; A; A; A 71; A; A; A

SAMPLES: W

LITHOLOGIC DESCRIPTION

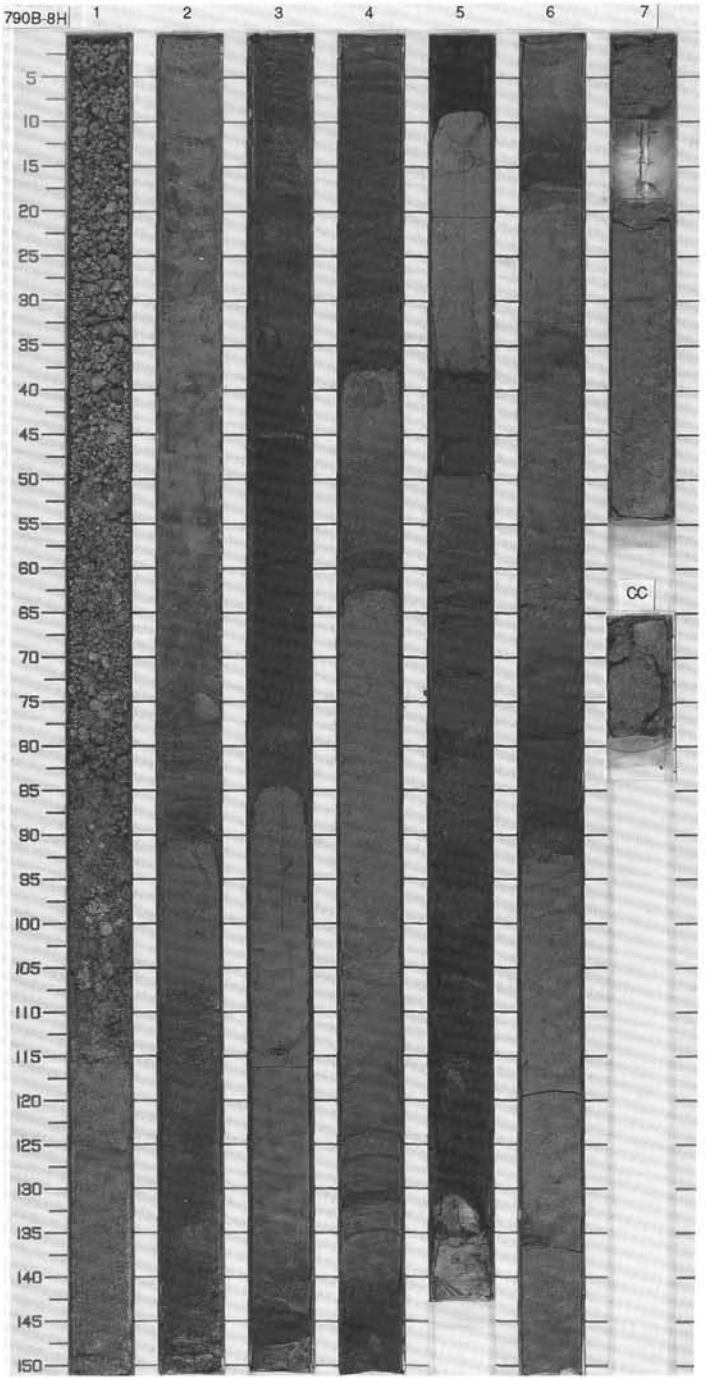
VITRIC SILT AND NANNOFOSSIL-RICH SILTY CLAY

Major lithologies:
VITRIC SILT in varying shades of gray to black (5Y 5/1, 4/1, 3/1, 3/2, 5YR 2/1, N2), in beds 20-108 cm thick, makes up 41% of the core. Most (33%) of the remaining core consists of olive gray (5Y 4/2) NANNOFOSSIL-RICH SILTY CLAY beds 6-58 cm thick, some containing dispersed vitric (ash) grains.

Minor lithologies:
A light gray (5Y 7/1) granule-pebble VITRIC PUMICEOUS GRAVEL with maximum clast sizes of 3.5 cm comprises the top 14% of the core. Black (5Y 3/2, N2) VITRIC SAND beds from a few millimeters to 42 cm thick constitute 11% of the recovered core. Graded bedding and laminations occur at places in the sandy and silty intervals.

SMEAR SLIDE SUMMARY (%):

	3, 103 D	4, 37 D	6, 62 D
TEXTURE:			
Sand	1	90	Tr
Silt	48	10	100
Clay	51	—	—
COMPOSITION:			
Clay	51	—	—
Diatoms	7	—	—
Feldspar	Tr	25	1
Foraminifers	2	—	—
Glass	1	50	98
Lithic fragments	1	15	Tr
Micrite	—	—	Tr
Nannofossils	35	—	Tr
Oxide	Tr	—	—
Pyroxene	—	10	1
Radiolarians	1	—	—
Silicoflagellates	1	—	—
Spicules	1	—	—



SITE 790 HOLE B CORE 9H CORED INTERVAL 71.3-81.0 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
QUATERNARY	N23	CN15	F/P	R/G		ρ=1.63-3.7	%$CaCO_3$=0.6	1	0.5				*
									1.0				
							%$CaCO_3$=0.4	2					OG
													IW
								3					*
								CC					

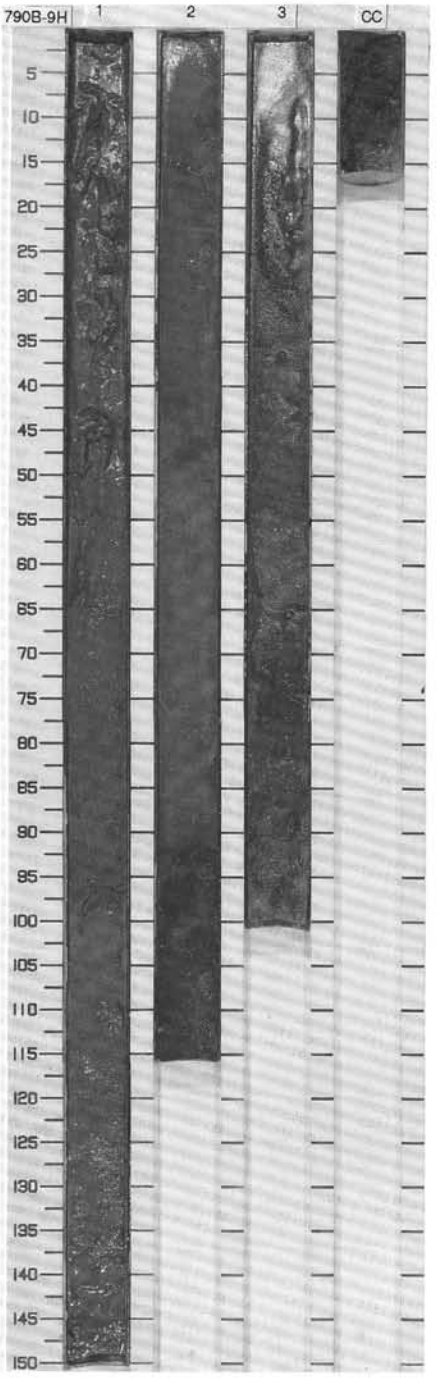
LITHOLOGIC DESCRIPTION

VITRIC SILT AND VITRIC SAND

Major lithologies:
Light olive gray (5Y 5/2) VITRIC SILT comprises 81% of the core, most of it in the uppermost 240 cm layer. Other beds of VITRIC SILT are 14 to 90 cm thick. The lowermost bed contains fine sandy laminations. Black (5Y 3/2) VITRIC SAND beds, 10-29 cm thick, are interbedded with the silts in the lower part of the core.

SMEAR SLIDE SUMMARY (%):

	1, 128 D	3, 23 D
TEXTURE:		
Sand	2	85
Silt	98	15
COMPOSITION:		
Feldspar	2	5
Glass	98	91
Lithic fragments	Tr	2
Pyroxene	—	2



SITE 790 HOLE B CORE 10H CORED INTERVAL 81.0-90.7 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
QUATERNARY	N23	CN15	UPPER PLIOCENE-RECENT			● ϕ=81.1 ● ρ=1.46	● %$CaCO_3$=0.4	1	0.5 1.0			◇ ◇	#
	A/G C/M		C/G			● ϕ=64.0 ● ρ=1.68	● %$CaCO_3$=2.2	2					
								3					
								4					
						● ϕ=68.7 ● ρ=1.59	● %$CaCO_3$=0.8	5					*
								6					*
								CC					* #

LITHOLOGIC DESCRIPTION

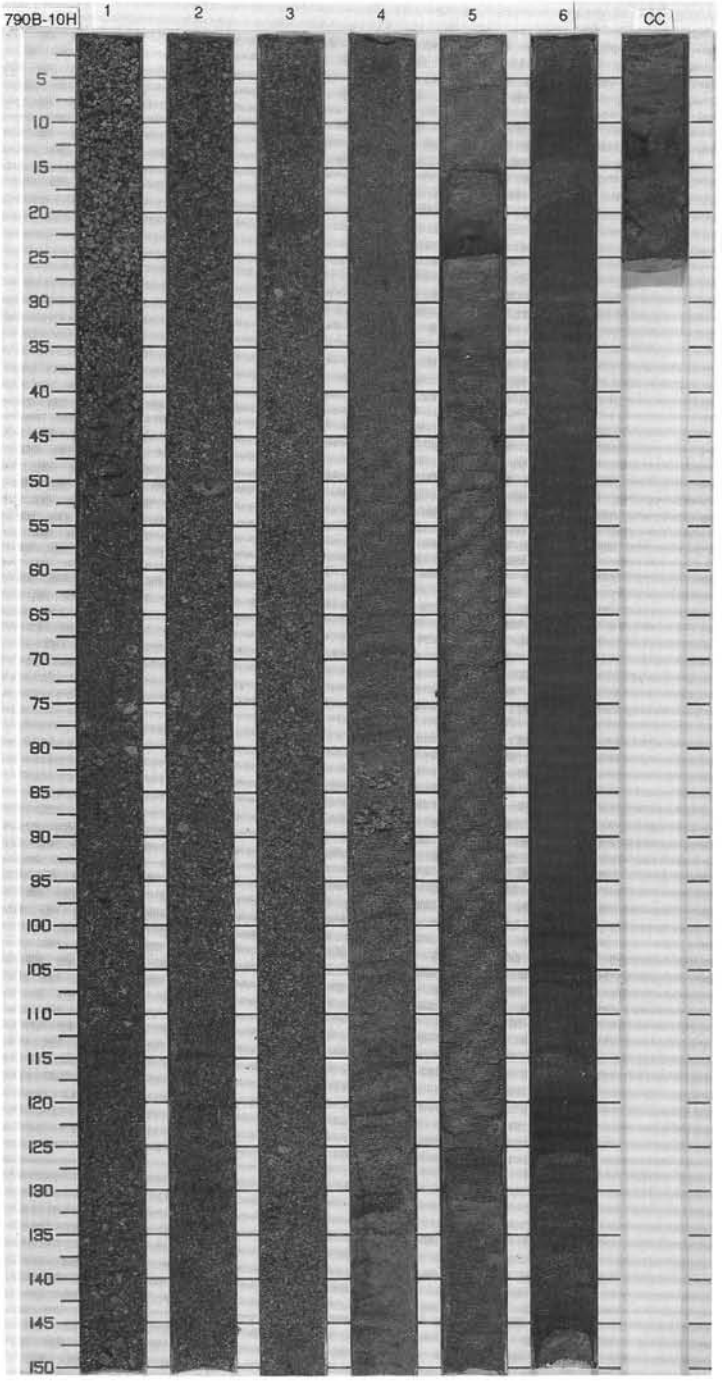
VITRIC PUMICEOUS GRAVEL, VITRIC SAND AND VITRIC SILT

Major lithologies:
The top 445 cm (55%) of the core is light olive gray, olive gray, gray, and black (5Y 5/2, 5/1, 4/2, 3/2) granule and pebble VITRIC PUMICEOUS GRAVEL. Gray, olive gray and black (5Y 5/1, 4/1, 3/2) VITRIC SAND beds comprise 27% of the core, and dark gray (5Y 4/1) VITRIC SILT beds 15% of the core.

Minor lithology: Dark olive gray (5Y 3/2) SILTY CLAY, 5% of the core, occurs in thin beds near the top of Section 5.

SMEAR SLIDE SUMMARY & THIN SECTIONS (%):

	2, 120 D	5, 14 D	6, 22 D	6, 135 D	CC, 8 M
TEXTURE:					
Sand	100	90	100	95	1
Silt	—	10	—	5	77
Clay	—	—	—	—	22
COMPOSITION:					
Accessory minerals	—	—	—	3	—
Bioclast	—	Tr	—	—	—
Clay	—	—	—	—	22
Diatoms	—	Tr	—	—	1
Feldspar	2	8	10	5	Tr
Foraminifers	—	—	—	Tr	1
Glass	96	90	88	88	65
Intraclasts	—	—	—	1	—
Lithic fragments	—	Tr	—	—	—
Micrite	—	—	—	—	1
Nannofossils	—	—	—	—	10
Pyroxene	—	2	2	—	Tr
Rock fragment	2	—	—	3	—
Spicules	—	—	—	—	Tr



SITE 790 HOLE B CORE 11H CORED INTERVAL 90.7-100.3 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
QUATERNARY	C/M N23	F/C P/M CN15	UPPER PLIOCENE-RECENT	R/G		●Φ=67.8 ●ρ=1.54	● %CaCO3=1.2	6					
						●Φ=67.8 ●ρ=1.57	● %CaCO3=1.3	4					*
						●Φ=66.6 ●ρ=1.53	● %CaCO3=1.5	2					*
						●Φ=68.6 ●ρ=1.51	● %CaCO3=1.1	1	0.5 1.0				*

LITHOLOGIC DESCRIPTION

VITRIC SILT AND VITRIC SAND

Major lithologies:
Gray (N6), homogeneous VITRIC SILT and VITRIC SAND containing only several percent of clay make up 93% of the core.

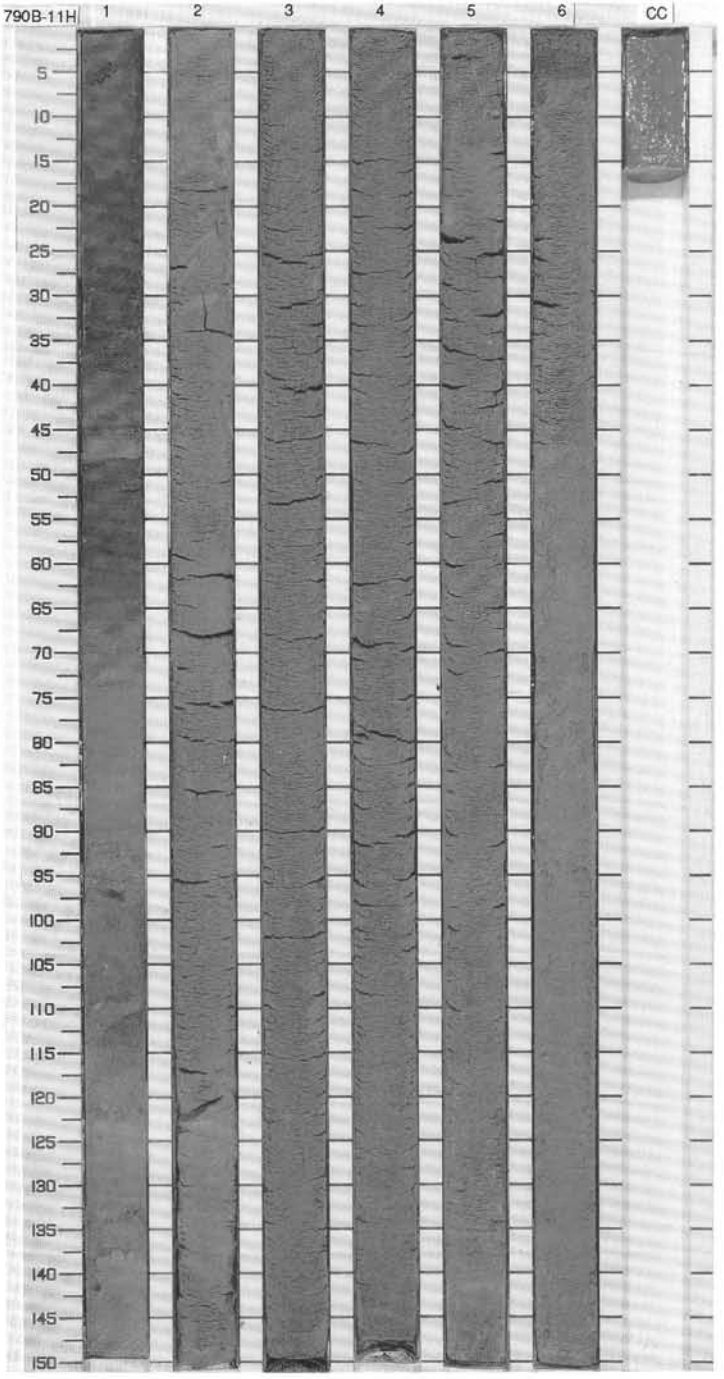
Minor lithologies:
The two less abundant lithologies occur only in Section 1. These are light gray and gray (N7, N1) CLAY and greenish gray SILTY CLAY that respectively constitute only 5% and 2% of the core.

SMEAR SLIDE SUMMARY (%):

	1, 44 D	1, 100 D	2, 100 D	3, 100 D	4, 100 D	5, 145 D
TEXTURE:						
Sand	—	60	—	—	—	60
Silt	97	38	97	97	97	40
Clay	3	2	3	3	3	—
COMPOSITION:						
Accessory minerals	1	2	2	1	1	1
Clay	7	2	—	—	—	—
Diatoms	—	—	—	Tr	1	—
Feldspar	1	3	—	2	2	1
Glass	90	90	95	95	93	96
Nannofossils	—	—	—	—	1	1
Quartz	1	3	3	2	2	1

126 790B 12X NO RECOVERY

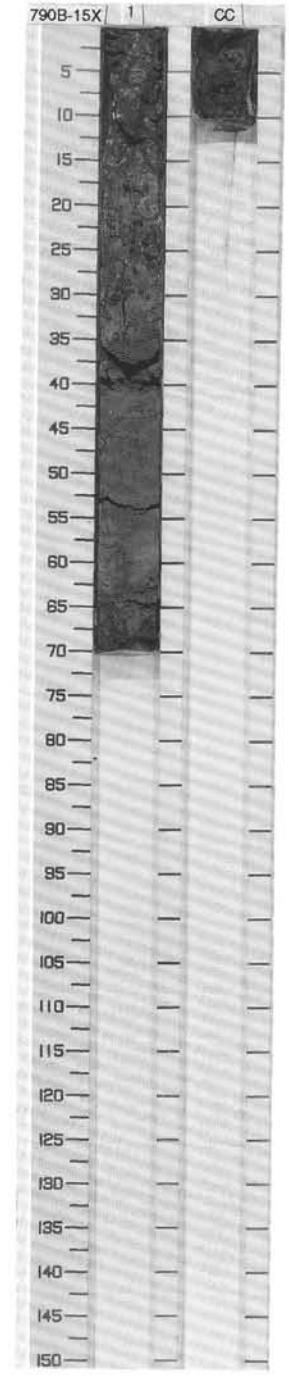
126 790B 13X NO RECOVERY



126 790B 14X NO RECOVERY

SITE 790 HOLE B CORE 15X CORED INTERVAL 129.3-138.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
QUATERNARY	N23	CN15 C/M	B A/M		ψ=66.9 ± 1.6 %CaCO3 =19.8 ψ=69.2 ± 1.5 %CaCO3 =0.6	● ●	● ●	1 CC	0.5					NANNOFOSSIL-RICH VITRIC SILTY CLAY AND VITRIC SAND Major lithologies: Medium gray (N5), structureless NANNOFOSSIL-RICH VITRIC SILTY CLAY, and medium light gray (N6) fine VITRIC SAND



SITE 790 HOLE C CORE 1H CORED INTERVAL 85.0-94.5 mbsf

TIME-ROCK UNIT: QUATERNARY

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS: N23; NANNOFOSSILS: CN15; RADIOLARIANS: C/G; DIATOMS: B

PALEOMAGNETICS: N

PHYS. PROPERTIES: ρ=64.2, γ=1.65; ρ=68.6, γ=1.75; ρ=66.4, γ=1.6

CHEMISTRY: %$CaCO_3$=2.2; %$CaCO_3$=1.4

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES

LITHOLOGIC DESCRIPTION

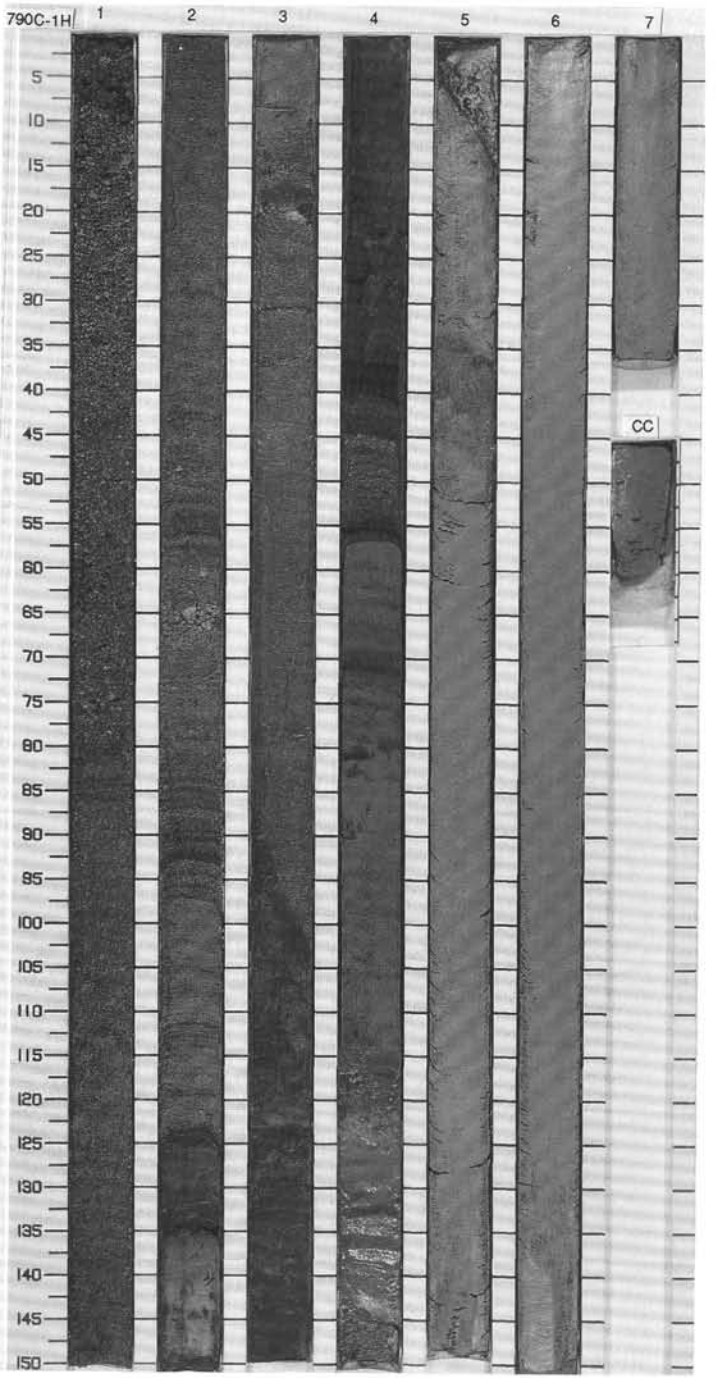
VITRIC SILT, VITRIC SAND AND SILTY CLAY

Major lithologies:
Dark gray (5Y 4/1) VITRIC SILT, interbedded with the other lithologies in the upper part of the core, and comprising the basal 310-cm of the core, is 48% of the recovery. Dark gray (5Y 4/1) and black (5Y 3/2, 2/1) VITRIC SAND is 25% of the core. Greenish black (5GY 2/1) and dark gray (5Y 4/1) SILTY CLAY, its silt content mainly glass, makes up 19% of the recovery.

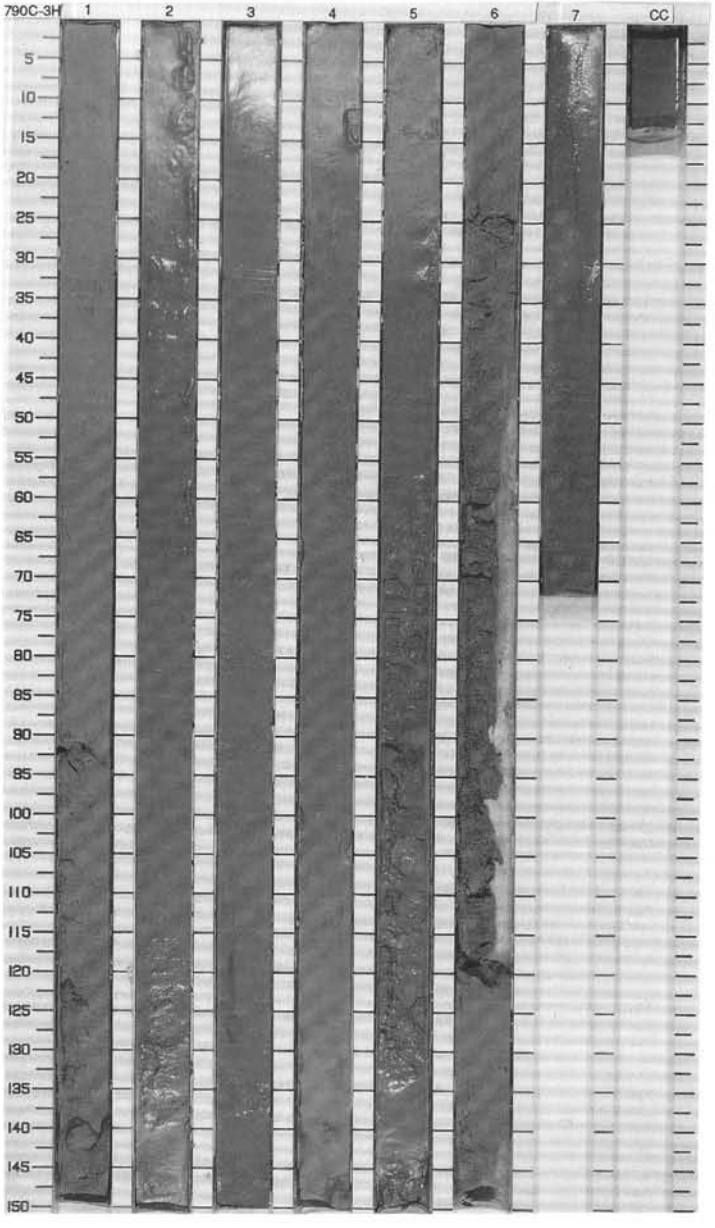
Minor lithology: The uppermost unit, 80 cm thick (8% of recovery), is a light olive gray (5Y 5/2) VITRIC PUMICEOUS GRAVEL with maximum clast sizes of 1 cm. Planar laminations occur in some of the sandy and silty units, and isolated pumice clasts were noted in two places.

SMEAR SLIDE SUMMARY (%):

	2, 133 D	4, 71 D	5, 7 D	5, 100 D
TEXTURE:				
Sand	30	85	80	5
Silt	45	14	20	90
Clay	25	1	—	5
COMPOSITION:				
Clay	25	1	—	5
Diatoms	—	Tr	—	—
Feldspar	5	2	—	1
Foraminifers	—	1	—	—
Glass	54	95	100	92
Lithic fragments	15	—	—	—
Micrite	Tr	—	—	—
Nannofossils	Tr	1	Tr	2
Oxide	1	—	—	—
Pyroxene	Tr	—	—	—
Radiolarians	—	Tr	—	—



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
QUATERNARY	N23	CN15	UPPER PLIOCENE-RECENT		N	?		1	0.5		○			VITRIC SILT Major lithology: Medium gray (N5) structureless very fine VITRIC SILT, reduced to soupy consistency by severe drilling disturbance. SMEAR SLIDE SUMMARY (%): 5, 133 D TEXTURE: Sand 5 Silt 95 COMPOSITION: Feldspar 2 Glass 93 Inorganic calcite 1 Pyroxene 2 Quartz 2
		C/G	R/G						1.0					
								2						
					N	N								
						●φ=67.1 ●Y=1.59		3						
							●%$CaCO_3$=0.7							
								4						
								5						
					?N								*	
						●φ=65.5 ●Y=1.57		6						
							●%$CaCO_3$=0.5							
								7						
								CC						



SITE 790 HOLE C CORE 2H CORED INTERVAL 94.5-104.2 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
QUATERNARY	N23	CN15	UPPER PLIOCENE-RECENT		R / N / N? / N	ρ=63.5, 1.6 ρ=63.2, 1.64	%CaCO3=0.7 %CaCO3=0.7 %CaCO3=0.6	1 2 3 4 5 6 7 CC	0.5 1.0				OC IW

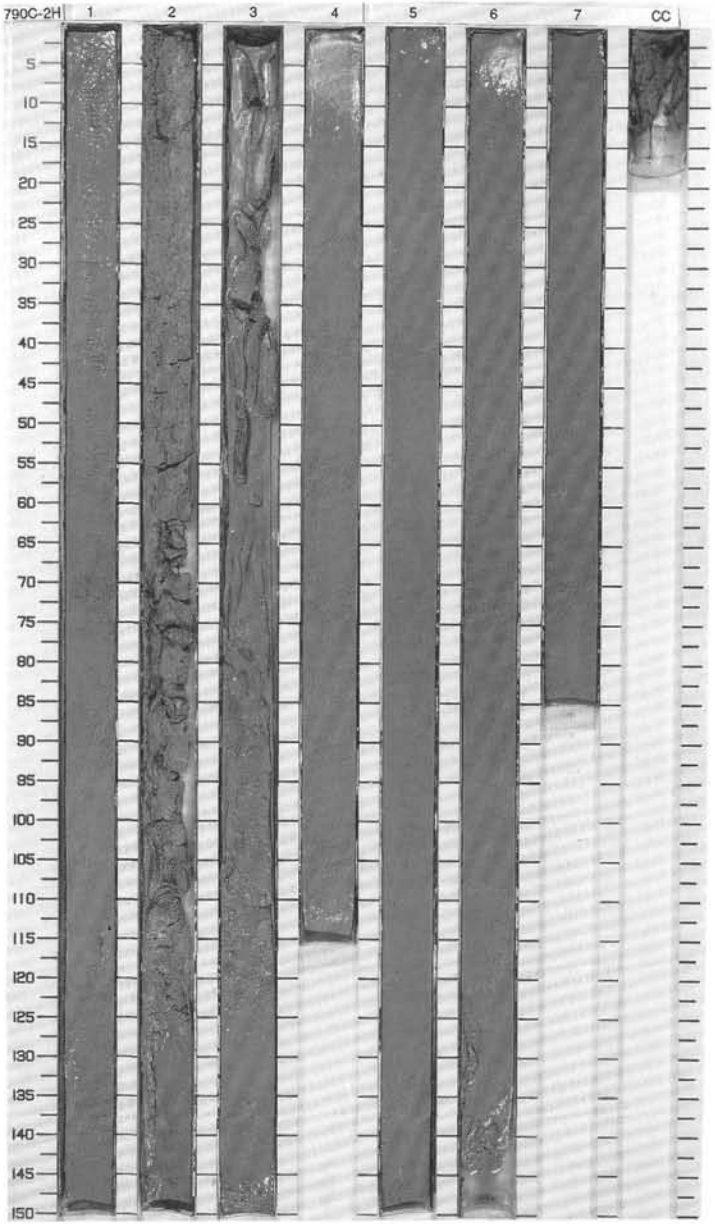
LITHOLOGIC DESCRIPTION

VITRIC SILT

Major lithology: The entire core is badly disturbed by drilling, its upper half soupy. It consists of gray (5Y 6/1) VITRIC SILT.

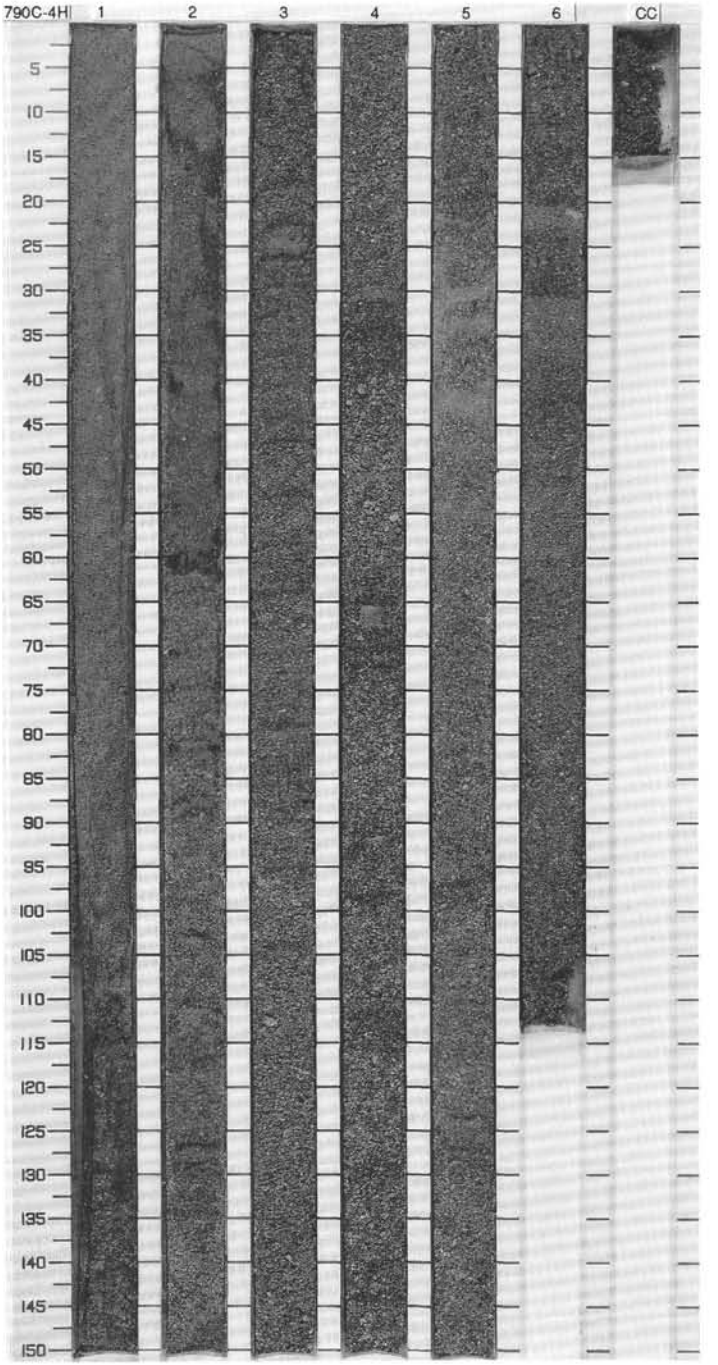
SMEAR SLIDE SUMMARY (%):

	4, 70 D
TEXTURE:	
Sand	2
Silt	95
Clay	3
COMPOSITION:	
Clay	3
Feldspar	Tr
Foraminifers	Tr
Glass	97
Nannofossils	Tr



SITE 790 HOLE C CORE 4H CORED INTERVAL 113.9-123.5 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
QUATERNARY	N23	CN15	R/G B		N	ρ=72.0 γ=1.32		1	0.5					PUMICEOUS VERY COARSE SAND AND PUMICEOUS SANDY GRANULE GRAVEL Major lithology: Generally structureless transitional units between PUMICEOUS VERY COARSE SAND, rich in granules, and PUMICEOUS SANDY GRANULE GRAVEL. Color is generally light olive gray (5Y 6/1), except for scoria-rich intervals that are medium gray (N5). Pumice clasts are light gray (N7). Besides pumice, all sediment contains about 10% scoria grains. Some intervals have poorly developed textural or compositional banding, with the darker laminae being richer in scoria grains.
									1.0					
								2						
								3						
						ρ=75.1 γ=1.43		4						
								5						
					N			6						
								CC						



SITE 790 HOLE C CORE 5H CORED INTERVAL 123.5-133.2 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
QUATERNARY	N23	CN15	A/G	A/G	N	?		1	0.5				
									1.0				
					?			2					
						ρ=67.8 g/cm³							
						ϕ=1.56							
						ρ=64.8 g/cm³		3					
						ϕ=1.72							
						ρ=59.5 g/cm³	$\%CaCO_3$=18.8						
						ϕ=1.75							
					N	ρ=53.6 g/cm³		4					*
						ϕ=1.79	$\%CaCO_3$=0.3						
						ρ=66.2 g/cm³		5					
						ϕ=1.71							
						$\%CaCO_3$ =15.5 3							
						$\%CaCO_3$ =21.5 3		6					*

LITHOLOGIC DESCRIPTION

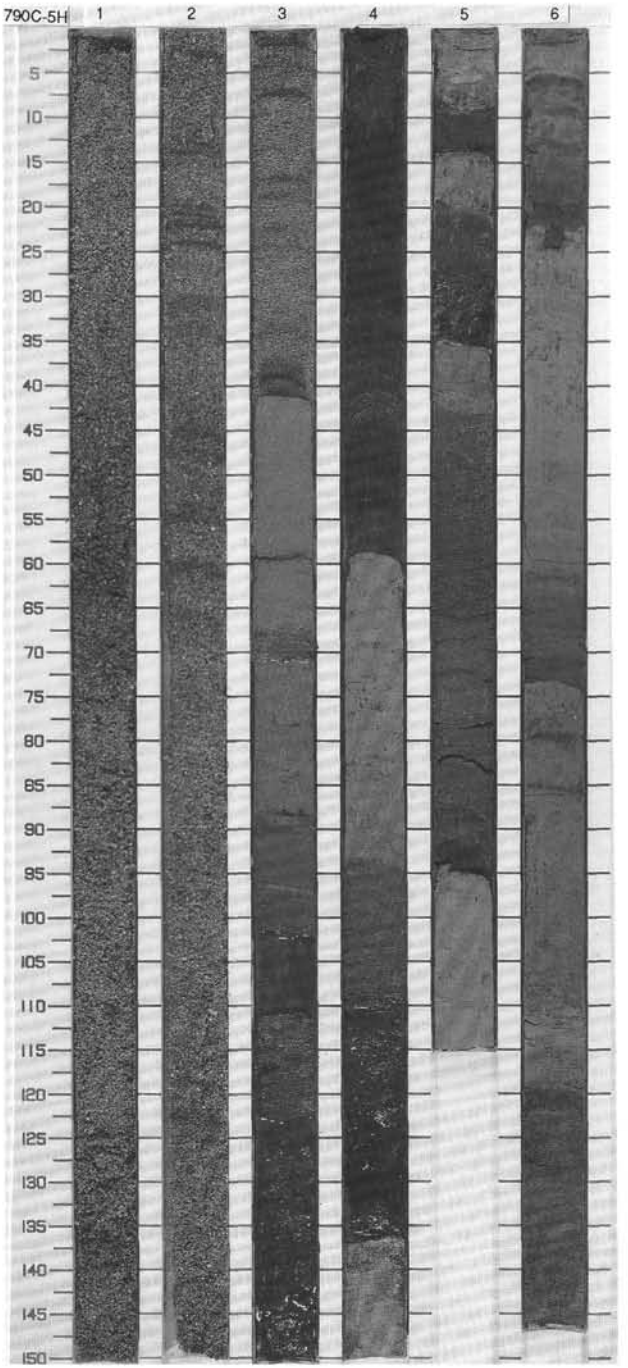
VITRIC SAND, VITRIC CLAYEY SILT, AND NANNOFOSSIL-RICH GRANULE-BEARING VITRIC CLAYEY SILT

Major lithologies:
Medium gray (N4) to medium light gray (N5) granule-rich locally laminated VITRIC SAND occurs in the upper part of the core. The middle-lower part of the core is characterized by the interbedding of graded layers of grayish black (N2) medium to fine SAND passing upward into graded dark gray (N3) VITRIC CLAYEY SILT, and to beds of burrowed olive (5Y 5/3) NANNOFOSSIL-RICH GRANULE-BEARING VITRIC CLAYEY SILT. Dusky green (5G 3/2) laminae composed of ash, 1 to 10 mm thick, occur locally.

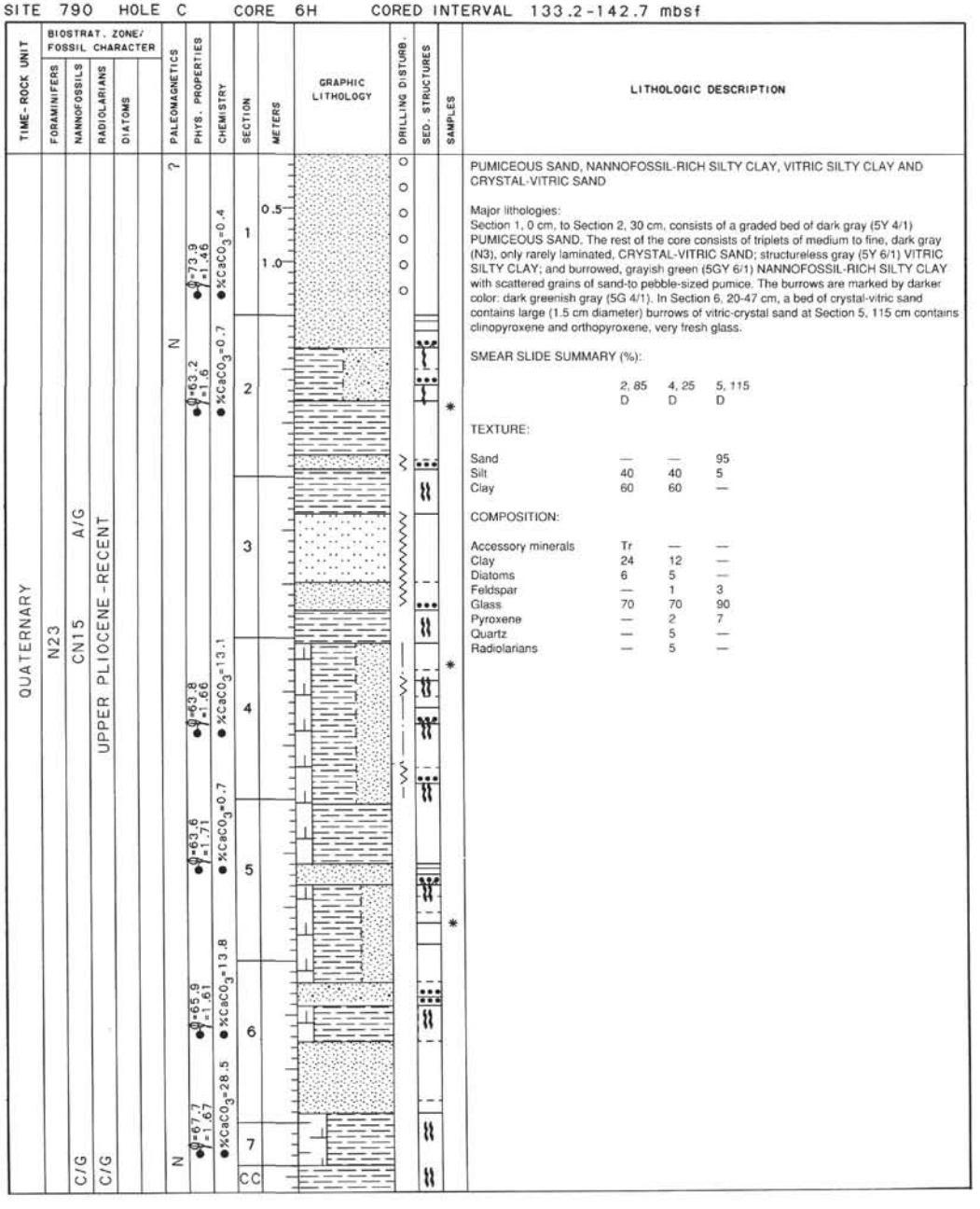
Minor lithology: An isolated pebble of reddish brown (10R 3/4) pumice is present in Section 6, 22-24 cm.

SMEAR SLIDE SUMMARY (%):

	3, 76 D	4, 112 D	6, 78 D
TEXTURE:			
Silt	60	70	51
Clay	40	30	49
COMPOSITION:			
Accessory minerals	2	2	2
Clay	37	—	41
Feldspar	1	1	2
Foraminifers	1	—	2
Glass	50	95	50
Inorganic calcite	1	—	—
Nannofossils	1	—	—
Pyroxene	2	—	1
Quartz	1	2	2
Radiolarians	3	—	—
Silicoflagellates	Tr	—	—
Spicules	1	—	—



SITE 790 HOLE C CORE 6H CORED INTERVAL 133.2-142.7 mbsf

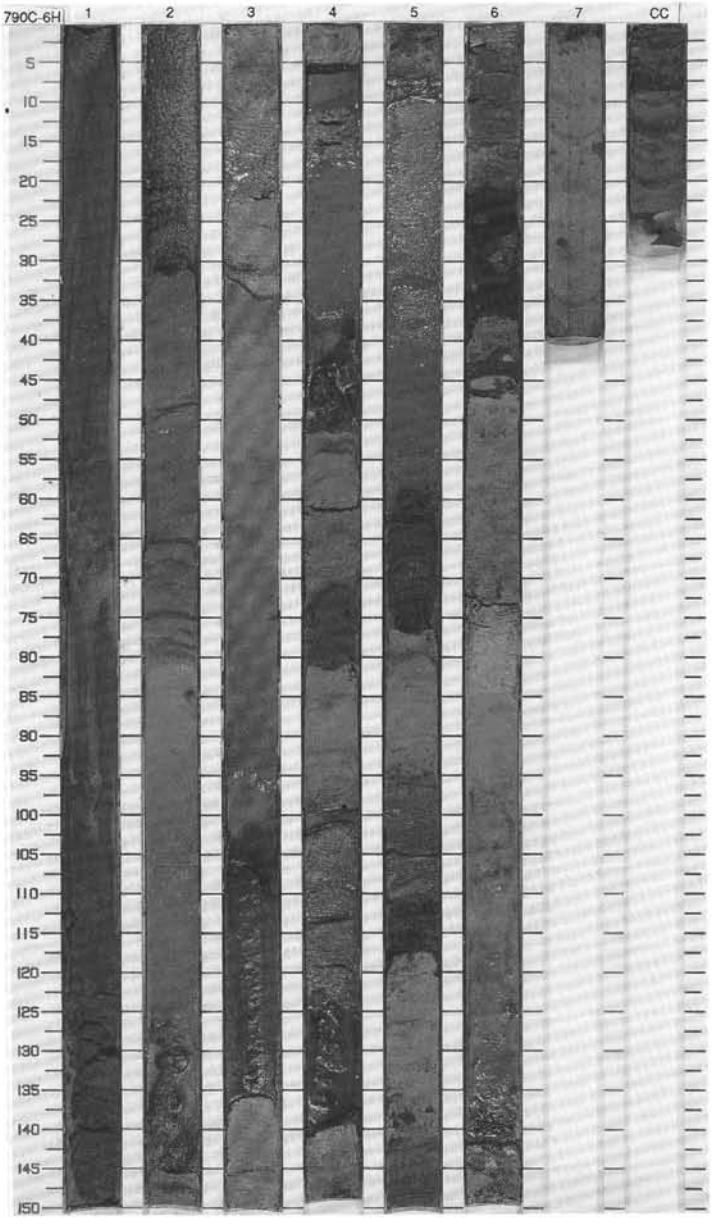


PUMICEOUS SAND, NANNOFOSSIL-RICH SILTY CLAY, VITRIC SILTY CLAY AND CRYSTAL-VITRIC SAND

Major lithologies:
Section 1, 0 cm, to Section 2, 30 cm, consists of a graded bed of dark gray (5Y 4/1) PUMICEOUS SAND. The rest of the core consists of triplets of medium to fine, dark gray (N3), only rarely laminated, CRYSTAL-VITRIC SAND; structureless gray (5Y 6/1) VITRIC SILTY CLAY; and burrowed, grayish green (5GY 6/1) NANNOFOSSIL-RICH SILTY CLAY with scattered grains of sand-to pebble-sized pumice. The burrows are marked by darker color: dark greenish gray (5G 4/1). In Section 6, 20-47 cm, a bed of crystal-vitric sand contains large (1.5 cm diameter) burrows of vitric-crystal sand at Section 5, 115 cm contains clinopyroxene and orthopyroxene, very fresh glass.

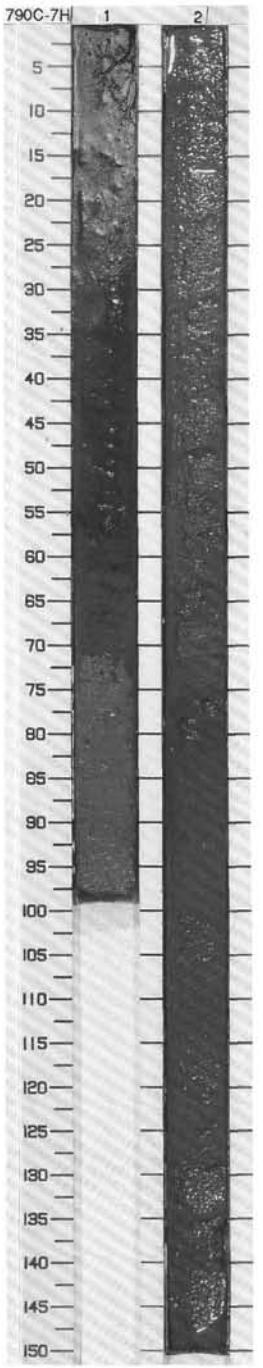
SMEAR SLIDE SUMMARY (%):

	2, 85 D	4, 25 D	5, 115 D
TEXTURE:			
Sand	—	—	95
Silt	40	40	5
Clay	60	60	—
COMPOSITION:			
Accessory minerals	Tr	—	—
Clay	24	12	—
Diatoms	6	5	—
Feldspar	—	1	3
Glass	70	70	90
Pyroxene	—	2	7
Quartz	—	5	—
Radiolarians	—	5	—



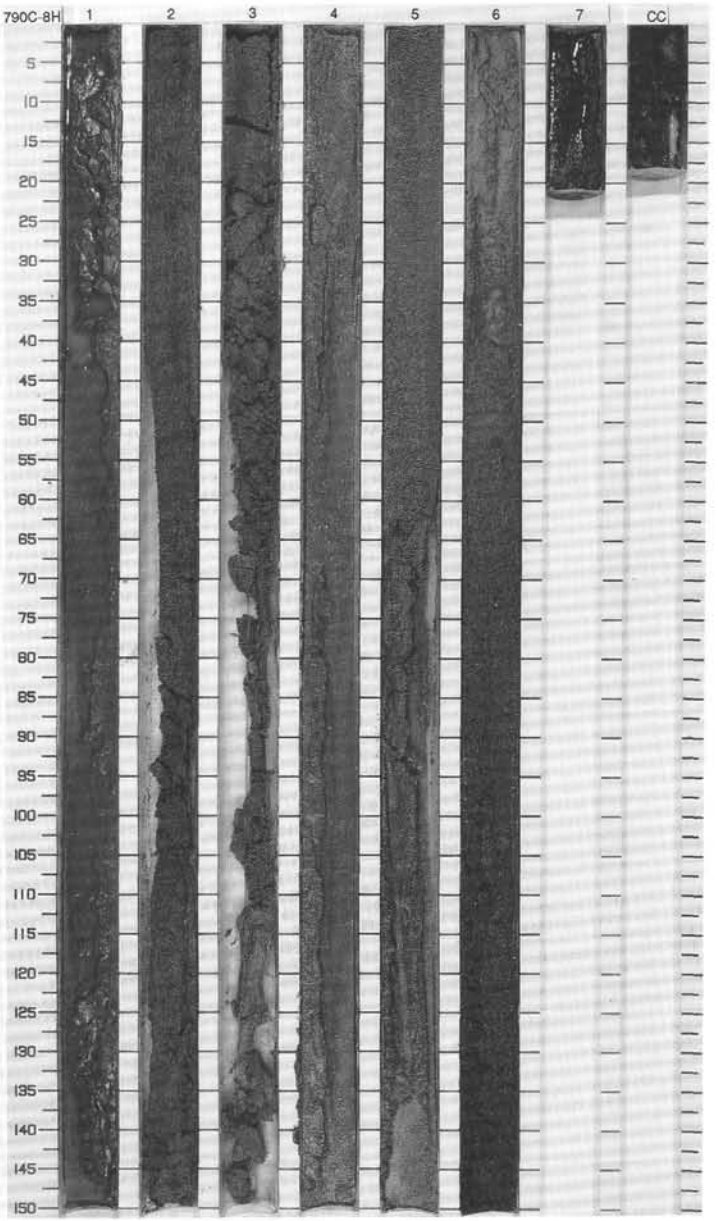
SITE 790 HOLE C CORE 7H CORED INTERVAL 142.7-145.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
QUATERNARY	N23	CN15	A/G R/G	UPPER PLIOCENE-RECENT	?	ρ=69.7 T=1.53	● %$CaCO_3$=3.0	1	0.5		○			VITRIC SILT AND VITRIC-CRYSTAL SAND Major lithologies: Light olive gray (5Y 5/2) very fine VITRIC SILT passing upward into light olive gray (5Y 5/2) VITRIC CRYSTAL SAND. The sediment is structureless, reduced to soupy condition by severe drilling disturbance.
									1.0		○			
								2			○ ○ ○ ○ ○			



SITE 790 HOLE C CORE 8H CORED INTERVAL 145.7-155.2 mbsf

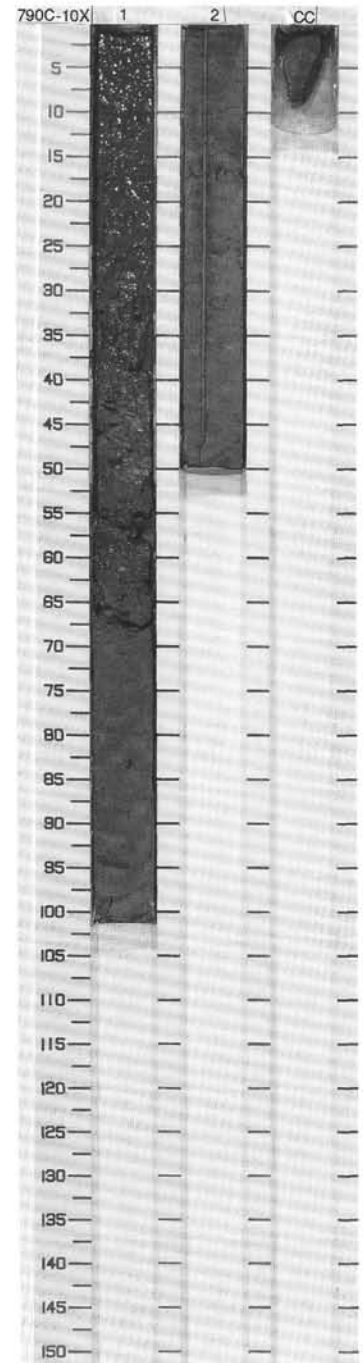
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
QUATERNARY	N23	CN15	F/G	B	?			1	0.5					VITRIC SAND
									1.0					Major lithology: Light olive gray (5Y 5/2) structureless VITRIC SAND. In the basal part of the core the sand is dark gray (N3) in color. The lack of structures is the result of severe drilling disturbance.
								2						
								3						
								4						
								5						
								6						
								7						
								CC						



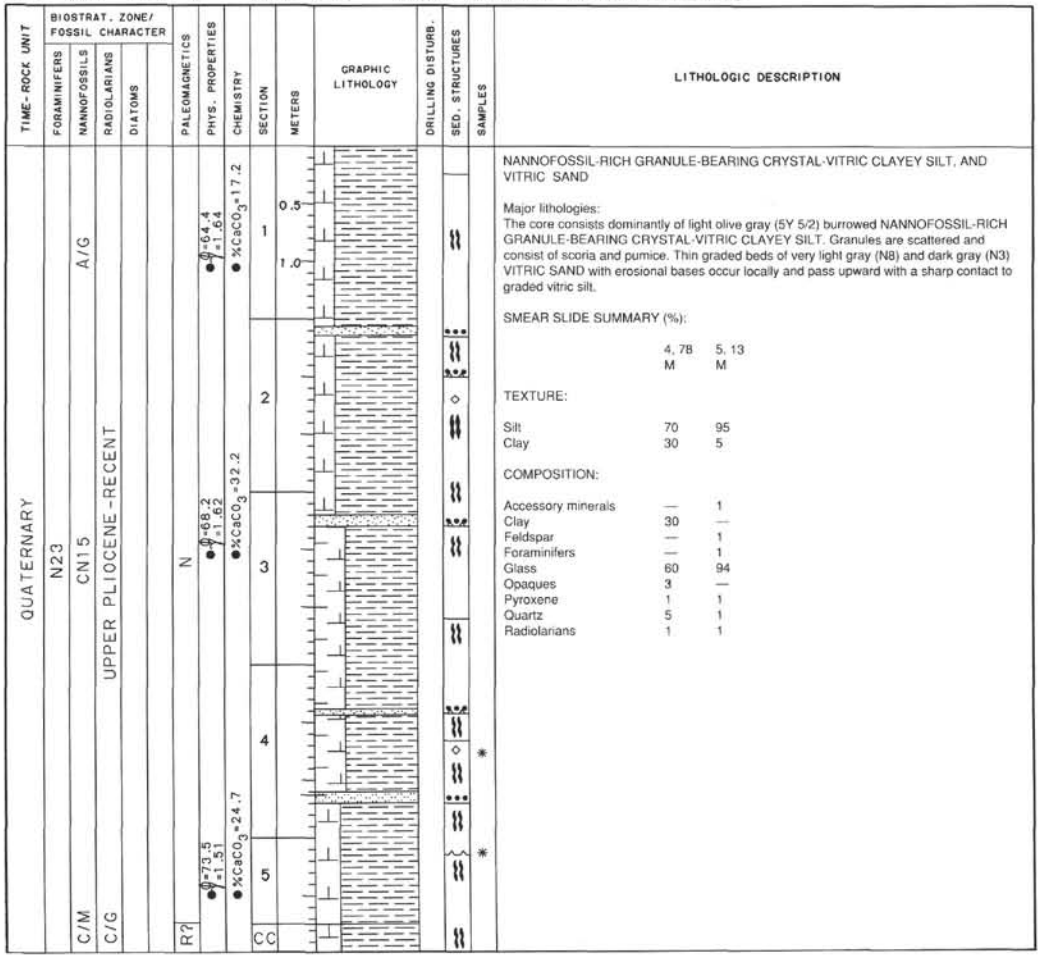
126 790C 9X NO RECOVERY

SITE 790 HOLE C CORE 10X CORED INTERVAL 164.9-174.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
QUATERNARY	N23	C/M CN15 A/G	F/G UPPER PLIOCENE-RECENT		N	● 0-65.4 ● 1.69 ● %$CaCO_3$ ● %$CaCO_3$ =22.6	● %$CaCO_3$=28.2	1 2 CC	0.5 1.0		○ ○ ○			NANNOFOSSIL-RICH CLAY Major lithology: Medium dark gray (N4) NANNOFOSSIL-RICH CLAY, very disturbed by drilling.



SITE 790 HOLE C CORE 11X CORED INTERVAL 174.6-184.2 mbsf



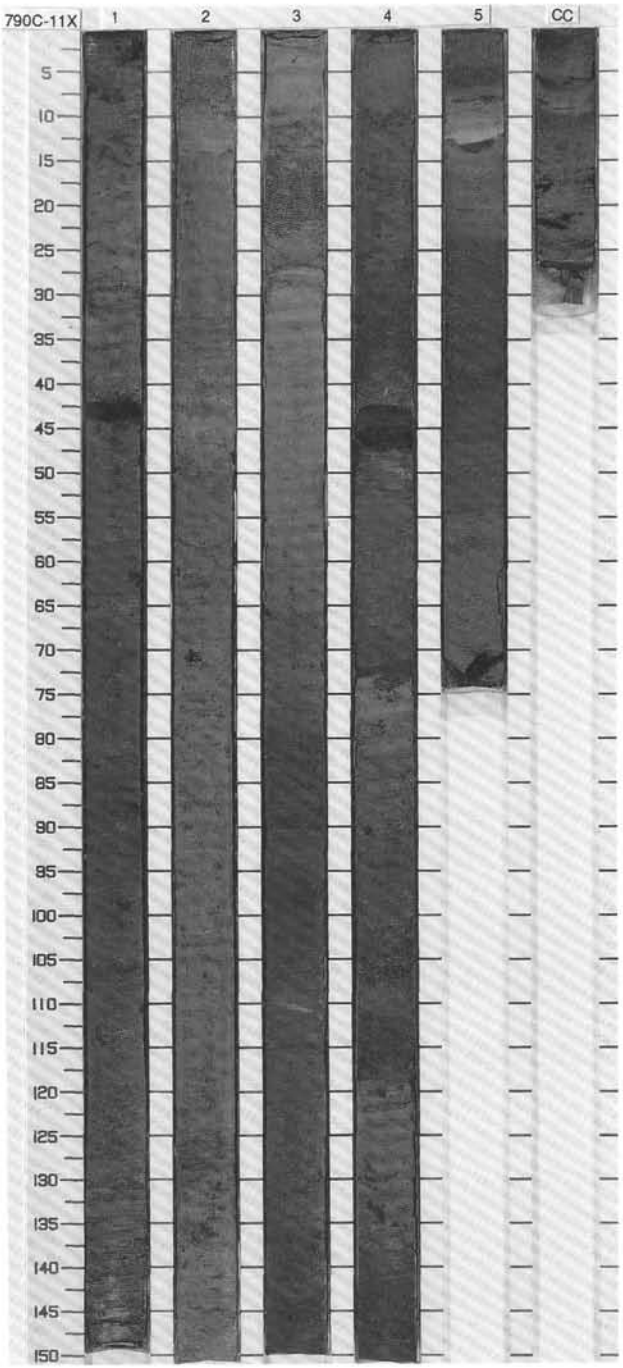
LITHOLOGIC DESCRIPTION

NANNOFOSSIL-RICH GRANULE-BEARING CRYSTAL-VITRIC CLAYEY SILT, AND VITRIC SAND

Major lithologies:
The core consists dominantly of light olive gray (5Y 5/2) burrowed NANNOFOSSIL-RICH GRANULE-BEARING CRYSTAL-VITRIC CLAYEY SILT. Granules are scattered and consist of scoria and pumice. Thin graded beds of very light gray (N8) and dark gray (N3) VITRIC SAND with erosional bases occur locally and pass upward with a sharp contact to graded vitric silt.

SMEAR SLIDE SUMMARY (%):

	4, 78 M	5, 13 M
TEXTURE:		
Silt	70	95
Clay	30	5
COMPOSITION:		
Accessory minerals	—	1
Clay	30	—
Feldspar	—	1
Foraminifers	—	1
Glass	60	94
Opaques	3	—
Pyroxene	1	1
Quartz	5	1
Radiolarians	1	1



SITE 790 HOLE C CORE 12X CORED INTERVAL 184.2-193.9 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
QUATERNARY	N23	CN14b	A/G	A/G	N	ρ=1.65 ρ=1.6	%CaCO3 =18.5	1	0.5 1.0				**
UPPER PLIOCENE-RECENT			C/G					CC					

LITHOLOGIC DESCRIPTION

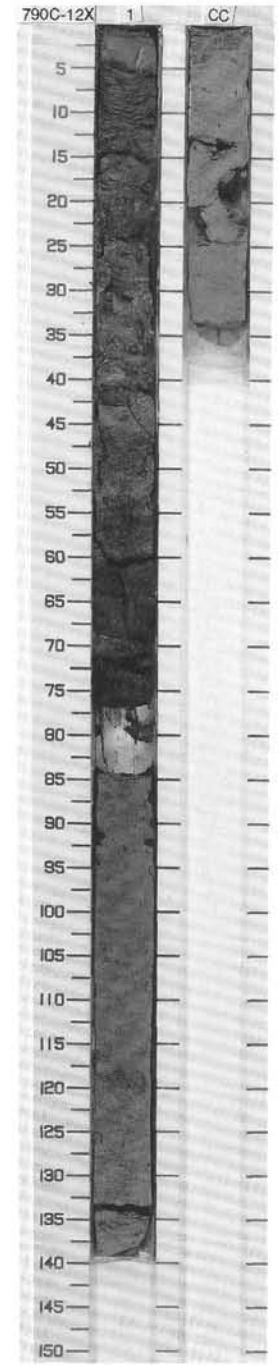
NANNOFOSSIL-RICH SILTY CLAY, NANNOFOSSIL-RICH CLAYEY SILT AND VITRIC SILT

Major lithologies:
Olive (5Y 4/1) NANNOFOSSIL-RICH SILTY CLAY and NANNOFOSSIL-RICH CLAYEY SILT, their silt contents largely glass, make up 66% of the core. They are interbedded with olive and olive black (5Y 4/1, 2/1) VITRIC SILT (20% of core).

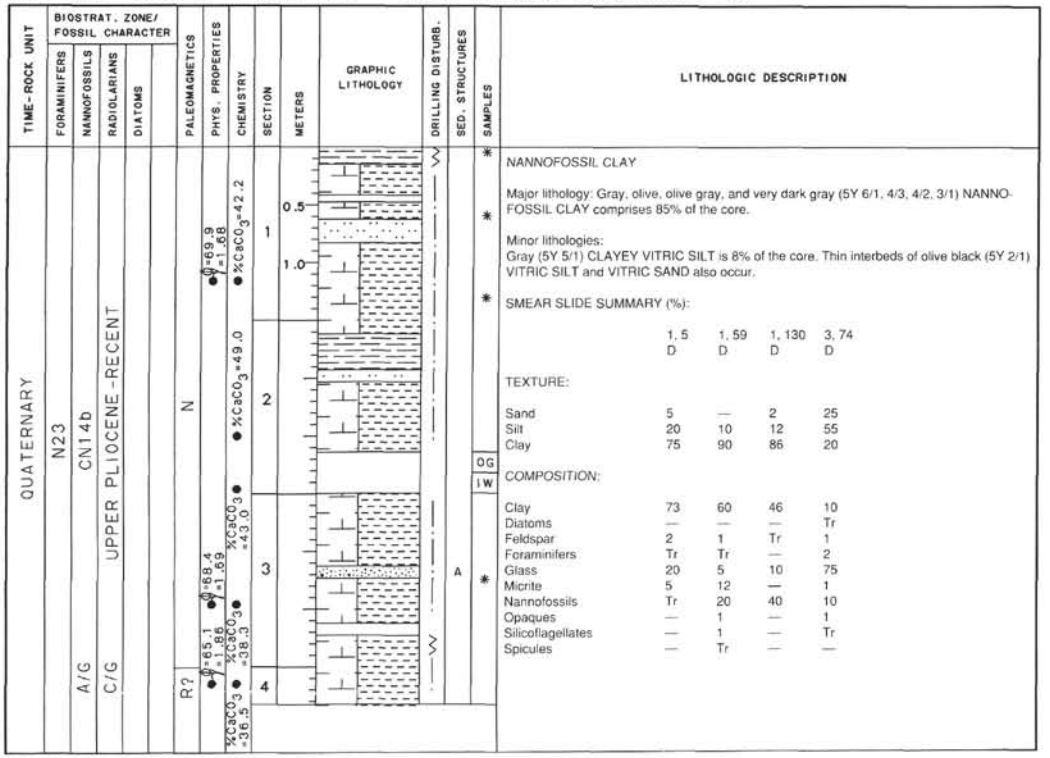
Minor lithology: Olive black (5Y 2/1) VITRIC SAND, comprises 14% of the core, as 2-6 cm interbeds with the major lithologies, and as thicker layers in the bottom of the core.

SMEAR SLIDE SUMMARY (%):

	1, 44 D	1, 56 D
TEXTURE:		
Sand	—	93
Silt	2	5
Clay	98	2
COMPOSITION:		
Clay	81	—
Feldspar	—	5
Foraminifers	2	—
Glass	—	95
Micrite	2	—
Nannofossils	15	—
Pyroxene	—	Tr



SITE 790 HOLE C CORE 13X CORED INTERVAL 193.9-203.6 mbsf



LITHOLOGIC DESCRIPTION

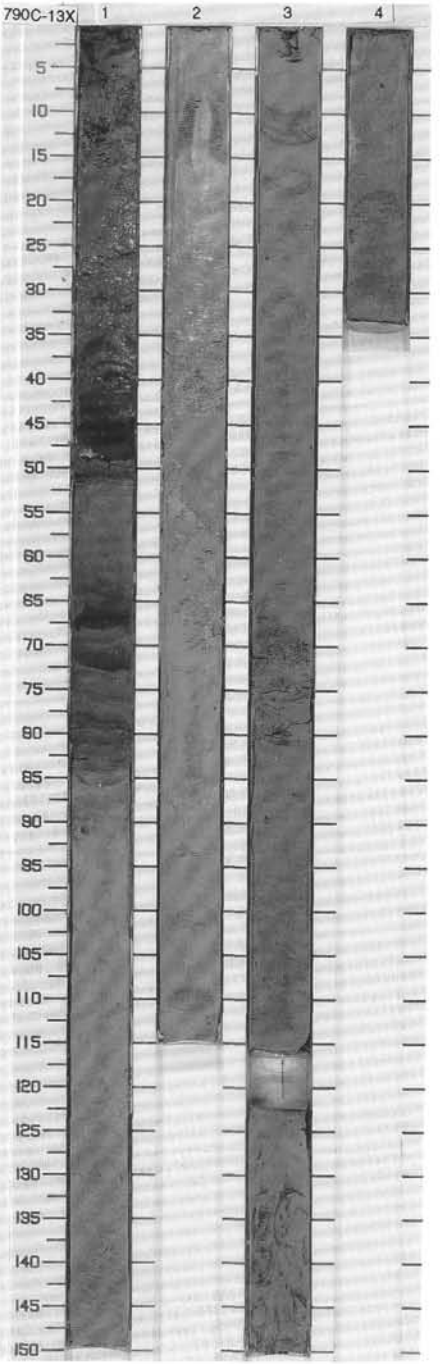
NANNOFOSSIL CLAY

Major lithology: Gray, olive, olive gray, and very dark gray (5Y 6/1, 4/3, 4/2, 3/1) NANNOFOSSIL CLAY comprises 85% of the core.

Minor lithologies:
Gray (5Y 5/1) CLAYEY VITRIC SILT is 8% of the core. Thin interbeds of olive black (5Y 2/1) VITRIC SILT and VITRIC SAND also occur.

SMEAR SLIDE SUMMARY (%):

	1, 5 D	1, 59 D	1, 130 D	3, 74 D
TEXTURE:				
Sand	5	—	2	25
Silt	20	10	12	55
Clay	75	90	86	20
COMPOSITION:				
Clay	73	60	46	10
Diatoms	—	—	—	Tr
Feldspar	2	1	Tr	1
Foraminifers	Tr	Tr	—	2
Glass	20	5	10	75
Micrite	5	12	—	1
Nannofossils	Tr	20	40	10
Opaques	—	1	—	1
Silicoflagellates	—	1	—	Tr
Spicules	—	Tr	—	—



SITE 790 HOLE C CORE 14X CORED INTERVAL 203.6-213.2 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
QUATERNARY	N23	A/G CN14b A/G	C/M UPPER PLIOCENE-RECENT		N	●ϕ=65.6 ●ϕ=68.6 ●ϕ=68.5 ●ρ=1.69 ●ρ=1.7 ●ρ=1.63	●%$CaCO_3$=25.2 ●%$CaCO_3$=24.4 ●%$CaCO_3$=36.5	1	0.5			A	
									1.0			A	*
								2					*
								3					*
								CC					

LITHOLOGIC DESCRIPTION

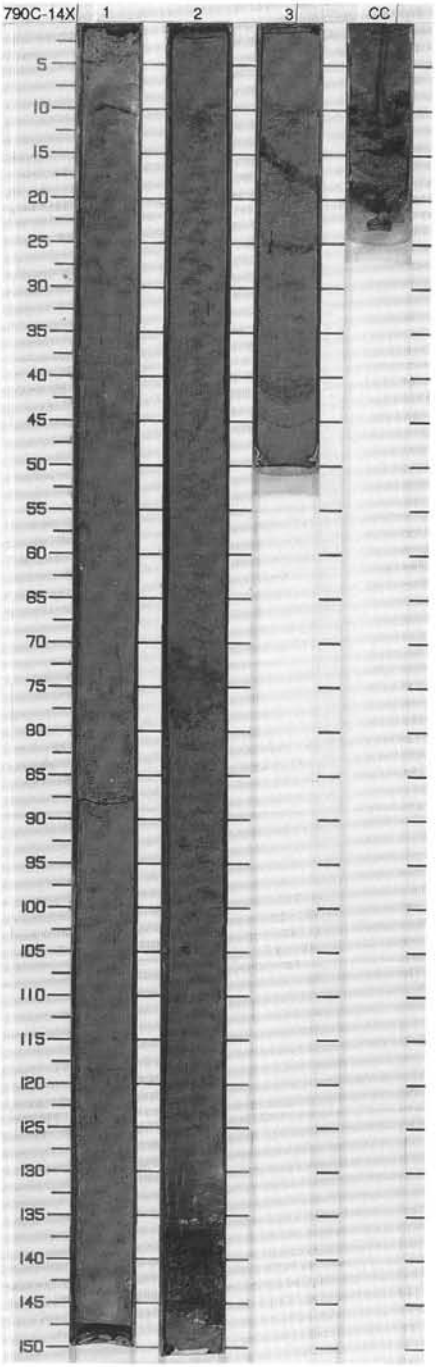
NANNOFOSSIL CLAY AND NANNOFOSSIL-RICH CLAY

Major lithology: Dark gray (5Y 4/1) NANNOFOSSIL CLAY and NANNOFOSSIL-RICH CLAY.

Minor lithologies:
A 7-cm thick layer of gray (5Y 5/1) VITRIC SILT occurs at the top of the core and a 1-cm thick layer is found in the middle of Section 1. Near the bottom of Section 2 is a 3-cm layer of dark gray (5Y 4/1) scoriaceous GRAVEL overlain by 4 cm of fine SAND, also scoriaceous.

SMEAR SLIDE SUMMARY (%):

	1, 88 M	2, 41 D	2, 136 D
TEXTURE:			
Sand	—	—	10
Silt	65	5	55
Clay	35	95	35
COMPOSITION:			
Accessory minerals	3	—	Tr
Clay	26	45	43
Diatoms	1	1	Tr
Feldspar	Tr	—	2
Foraminifers	—	—	Tr
Glass	60	3	30
Lithic fragments	—	—	1
Micrite	Tr	—	Tr
Nannofossils	10	50	15
Opaques	—	—	5
Radiolarians	—	—	Tr
Silicoflagellates	—	1	4
Spicules	—	—	Tr



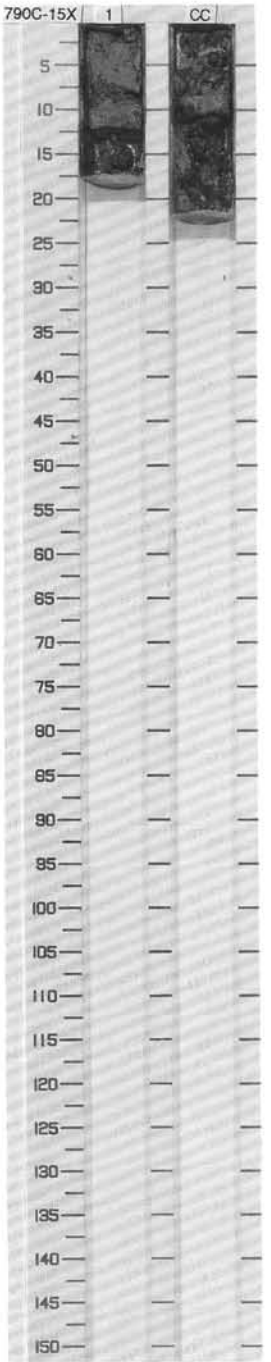
SITE 790 HOLE C CORE 15X CORED INTERVAL 213.2-222.8 mbsf

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
QUATERNARY - UPPER PLIOCENE - PLEISTOCENE >410K	N23	CN14b	A/G	C/M	R?			1 CC				A A	*	VITRIC SAND AND NANNOFOSSIL CLAY

Major lithologies:
The 39 cm of recovered sediment consists of 23 cm (59%) of olive black (5Y 2/1) VITRIC SAND interbedded with 16 cm (41%) of dark gray (5Y 4/1) NANNOFOSSIL CLAY.

SMEAR SLIDE SUMMARY (%):

	1, 5 D	CC, 3 D
TEXTURE:		
Sand	—	65
Silt	15	10
Clay	85	25
COMPOSITION:		
Accessory minerals	3	15
Clay	42	15
Diatoms	1	—
Feldspar	Tr	10
Foraminifers	—	Tr
Glass	10	50
Micrite	2	Tr
Nannofossils	40	10
Radiolarians	—	Tr
Silicoflagellates	2	—



SITE 790 HOLE C CORE 16X CORED INTERVAL 222.8-232.4 mbsf

TIME-ROCK UNIT	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS
QUATERNARY	N23	CN14a	UPPER PLIOCENE - PLEISTOCENE		N				
		A/G				φ=65.6 γ=1.76	%$CaCO_3$=24.4	1	0.5, 1.0
		A/G				φ=70.7 γ=1.68	%$CaCO_3$=46.9	2	
		A/G				φ=64.0 γ=1.69	%$CaCO_3$=31.4; %$CaCO_3$=18.0	3	
						φ=67.4 γ=1.71	%$CaCO_3$=23.9	4	
		A/G				φ=64.1 γ=1.74	%$CaCO_3$=13.5	5	
								6	
		A/G	R/M					CC	

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

IW

LITHOLOGIC DESCRIPTION

NANNOFOSSIL CLAY AND NANNOFOSSIL-RICH CLAY

Major lithology: Dark gray (5Y 4/1), gray (5Y 5/1) and very dark gray (5Y 3/1) NANNOFOSSIL CLAY and NANNOFOSSIL-RICH CLAY.

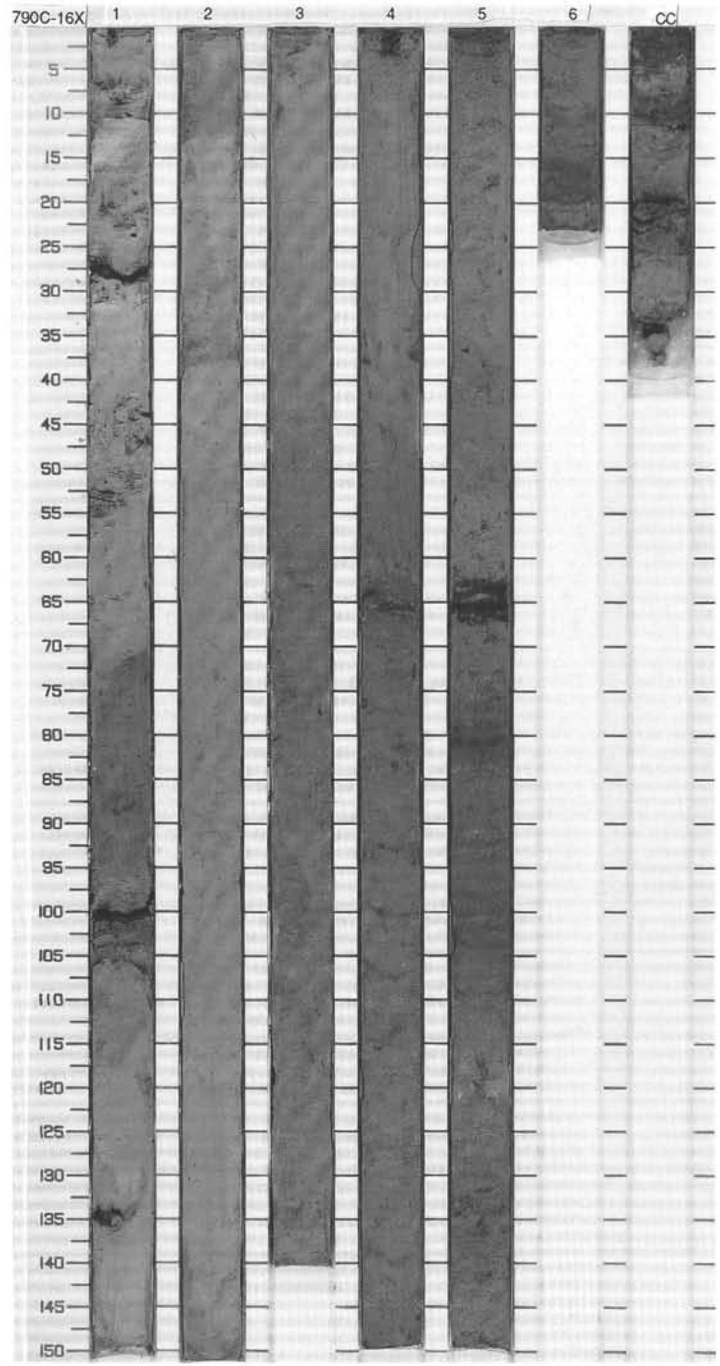
Minor lithologies: Gray, dark gray and black (5Y 5/1, 4/1, 3/2) VITRIC SAND and VITRIC SILT, in layers 3-5 cm thick, occur at 5 levels in the core.

SMEAR SLIDE SUMMARY (%):

	1, 36 D	1, 81 D	1, 102 D	1, 125 D	2, 11 D	2, 37 D	2, 130 D
TEXTURE:							
Sand	1	3	20	3	25	30	Tr
Silt	10	15	60	15	55	63	20
Clay	89	82	20	82	20	7	80
COMPOSITION:							
Bioclast	Tr	—	—	—	—	—	—
Clay	36	50	10	45	15	5	32
Diatoms	2	5	—	3	—	Tr	2
Feldspar	1	Tr	1	Tr	1	2	—
Foraminifers	—	1	—	1	—	—	1
Glass	Tr	3	75	10	75	90	10
Lithic fragments	—	—	—	—	—	Tr	—
Micrite	1	—	2	Tr	—	—	2
Nannofossils	60	40	10	39	7	2	50
Opaques	—	—	2	1	2	1	—
Pyroxene	—	—	Tr	—	—	—	—
Radiolarians	Tr	1	—	Tr	—	—	1
Silicoflagellates	Tr	—	—	—	—	—	2
Spicules	—	Tr	—	1	—	—	Tr

SMEAR SLIDE SUMMARY (%):

	3, 70 D	4, 65 D	5, 65 D	5, 121 D	6, 19 D	CC, 5 D	CC, 20 D
TEXTURE:							
Sand	—	50	75	25	80	87	20
Silt	30	35	15	65	15	10	60
Clay	70	15	10	10	5	3	20
COMPOSITION:							
Accessory minerals	—	1	5	1	—	—	2
Clay	37	10	10	10	5	3	15
Diatoms	Tr	Tr	—	—	—	—	—
Feldspar	1	15	15	3	3	5	2
Foraminifers	1	Tr	—	—	3	2	—
Glass	20	54	60	86	87	90	56
Lithic fragments	Tr	—	—	—	—	—	—
Micrite	7	—	—	—	—	—	—
Nannofossils	30	5	Tr	Tr	2	Tr	10
Opaques	—	15	10	—	—	—	—
Pyrite	2	—	—	—	—	—	15
Radiolarians	1	—	—	—	—	—	—
Silicoflagellates	Tr	—	—	—	—	—	—
Spicules	1	—	—	—	—	—	—



SITE 790 HOLE C CORE 17X CORED INTERVAL 232.4-242.1 mbsf

TIME-ROCK UNIT: QUATERNARY

BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS: CN14a; NANNOFOSSILS: UPPER PLIOCENE - RECENT; RADIOLARIANS: A/G; DIATOMS: R/M

PALEOMAGNETICS: R; N

PHYS. PROPERTIES: ϕ=68.6, ρ=1.74; ϕ=60.7, ρ=1.77; ϕ=58.6, ρ=1.7; ϕ=72.2, ρ=1.71; ϕ=66.9, ρ=1.65

CHEMISTRY: %CaCO3=31.1; %CaCO3=14.9; %CaCO3=14.1; %CaCO3=27.6; %CaCO3=18.5

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

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES: A, A, A

SAMPLES: *, *, *, *

LITHOLOGIC DESCRIPTION

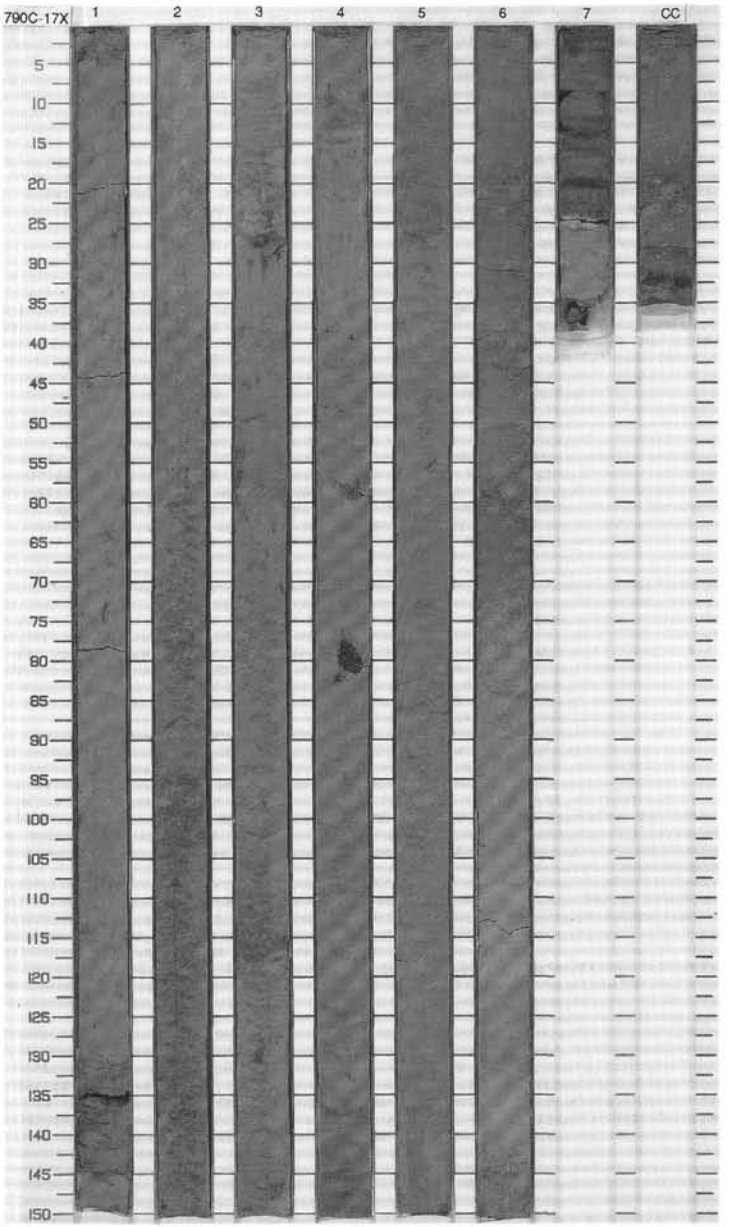
NANNOFOSSIL-RICH VITRIC CLAY, AND NANNOFOSSIL VITRIC CLAY

Major lithologies:
Gray (5Y 5/1) and olive gray (5Y 4/2 NANNOFOSSIL-RICH VITRIC CLAY (5Y 4/2) occurs from Section 1, 0-130 cm and from Section 1, 145 cm to Section 6, 75 cm.

Minor lithologies:
Dark gray (5Y 4/1) NANNOFOSSIL VITRIC CLAYEY SILT occurs from Section 6, 75 cm to the base of the core-catcher. Dark gray (5Y 4/1) VITRIC SANDY SILT occurs in Section 1, 130-145 cm. Three 1-2 cm beds of olive black (5Y 2/1), olive gray (5Y 4/2), and very dark gray (5Y 3/1) VITRIC SANDY SILT occur at the base of Section 7.

SMEAR SLIDE SUMMARY (%):

	1, 144 D	3, 100 D	6, 31 M	6, 100 D
TEXTURE:				
Sand	20	5	5	10
Silt	58	60	55	35
Clay	22	35	40	55
COMPOSITION:				
Accessory minerals	Tr	—	—	Tr
Clay	20	35	40	52
Diatoms	—	5	Tr	—
Feldspar	7	1	1	1
Foraminifers	Tr	1	—	Tr
Glass	61	26	50	15
Lithic fragments	Tr	—	—	—
Micrite	7	2	2	—
Nannofossils	2	25	5	30
Opaques	3	2	2	—
Radiolarians	—	—	Tr	Tr
Silicoflagellates	—	2	—	—
Spicules	—	1	Tr	—



SITE 790 HOLE C CORE 18X CORED INTERVAL 242.1-251.7 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
QUATERNARY	N22	CN14a	UPPER PLIOCENE - PLEISTOCENE >410K		R	ϕ=62.5 2.17 ϕ=62.0 2.175	%CaCO3=27.9 %CaCO3=40.9 %CaCO3=19.7	1 2 3 4 5 CC	0.5 1.0			A A A	OG IW * * ≈

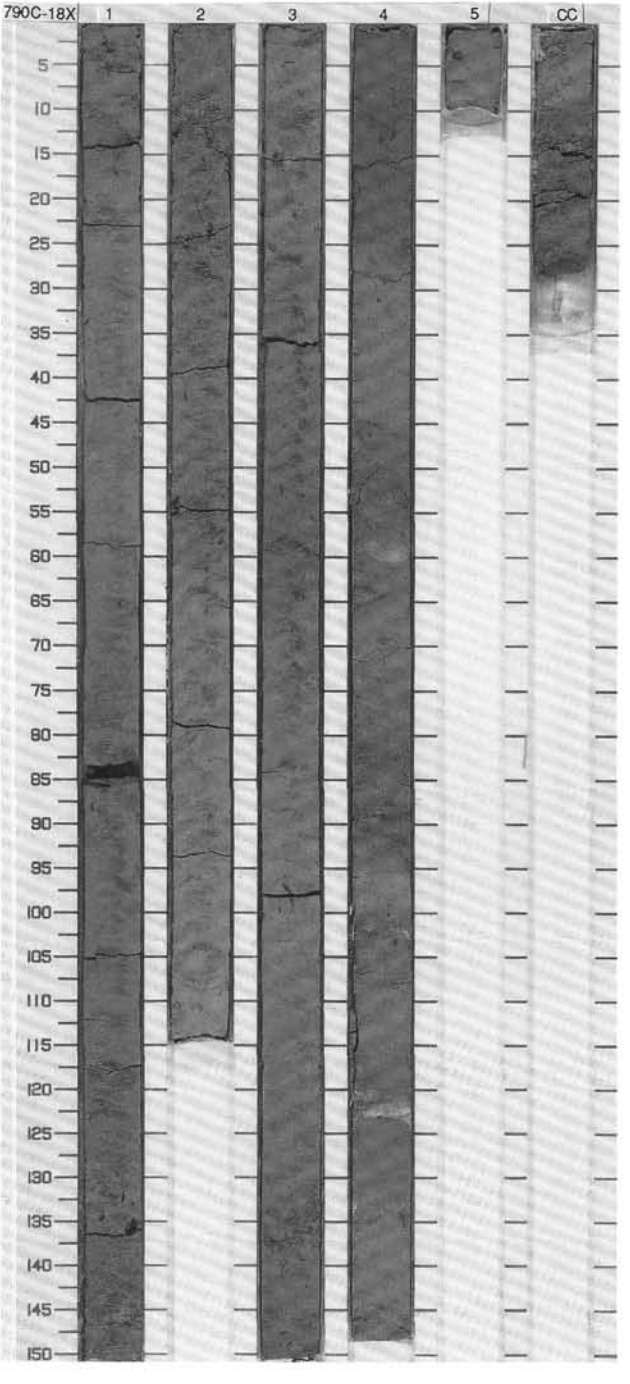
LITHOLOGIC DESCRIPTION

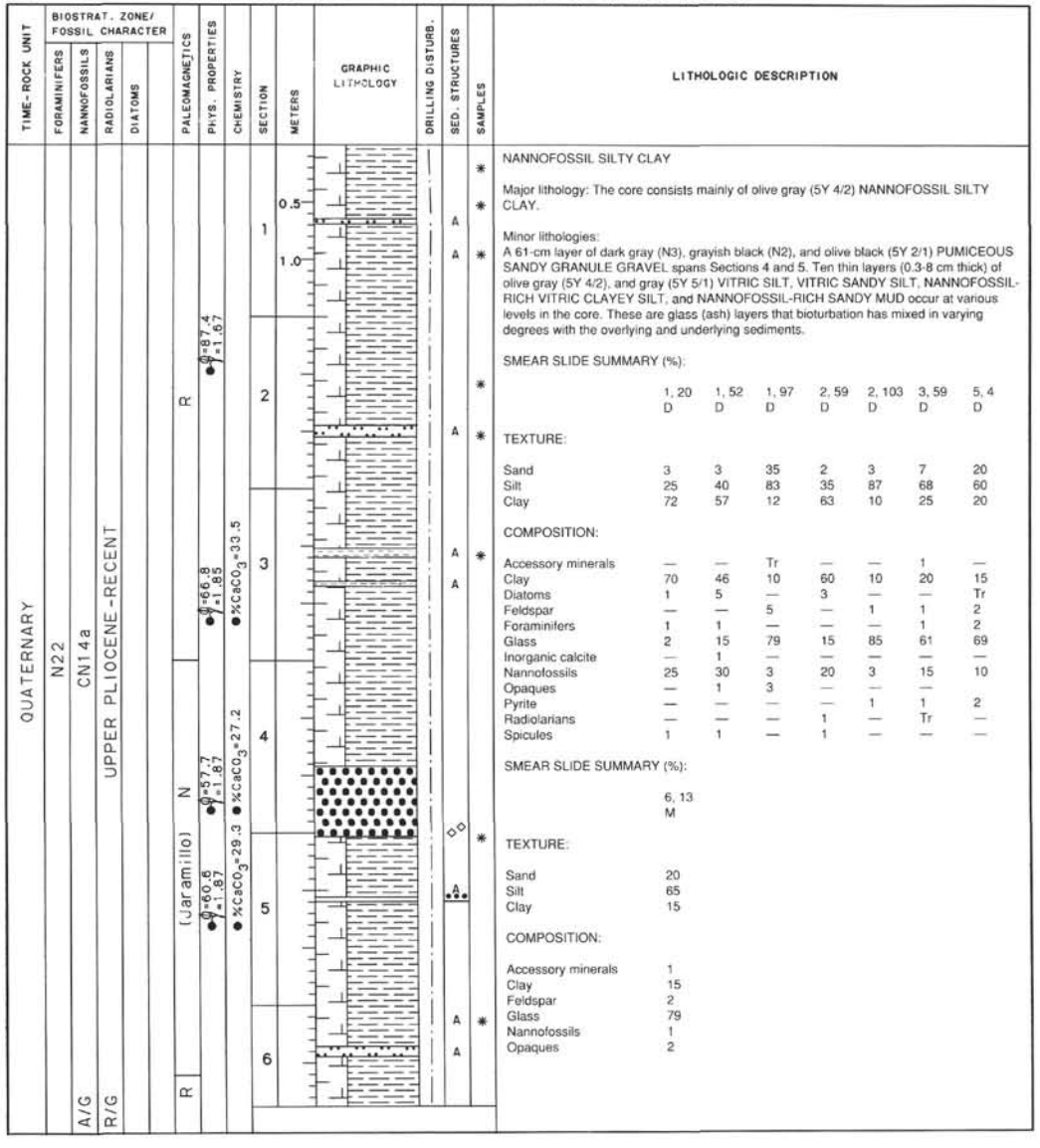
NANNOFOSSIL-RICH GRANULE-BEARING CLAYEY SILT, AND FORAMINIFER-NANNOFOSSIL -RICH CLAYEY SILT

Major lithologies:
Light olive gray (5Y 5/2) NANNOFOSSIL-RICH GRANULE-BEARING CLAYEY SILT, burrowed, with scattered granules of pumice and scoria, and light olive gray (5Y 6/1) burrowed FORAMINIFER-NANNOFOSSIL-RICH CLAYEY SILT.

SMEAR SLIDE SUMMARY (%):

	3, 55 D	4, 122 D
TEXTURE:		
Silt	60	70
Clay	40	30
COMPOSITION:		
Accessory minerals	1	1
Clay	36	27
Feldspar	1	—
Foraminifers	2	—
Glass	56	70
Opaques	1	—
Pyroxene	—	1
Quartz	1	—
Radiolarians	2	—





LITHOLOGIC DESCRIPTION

NANNOFOSSIL SILTY CLAY

Major lithology: The core consists mainly of olive gray (5Y 4/2) NANNOFOSSIL SILTY CLAY.

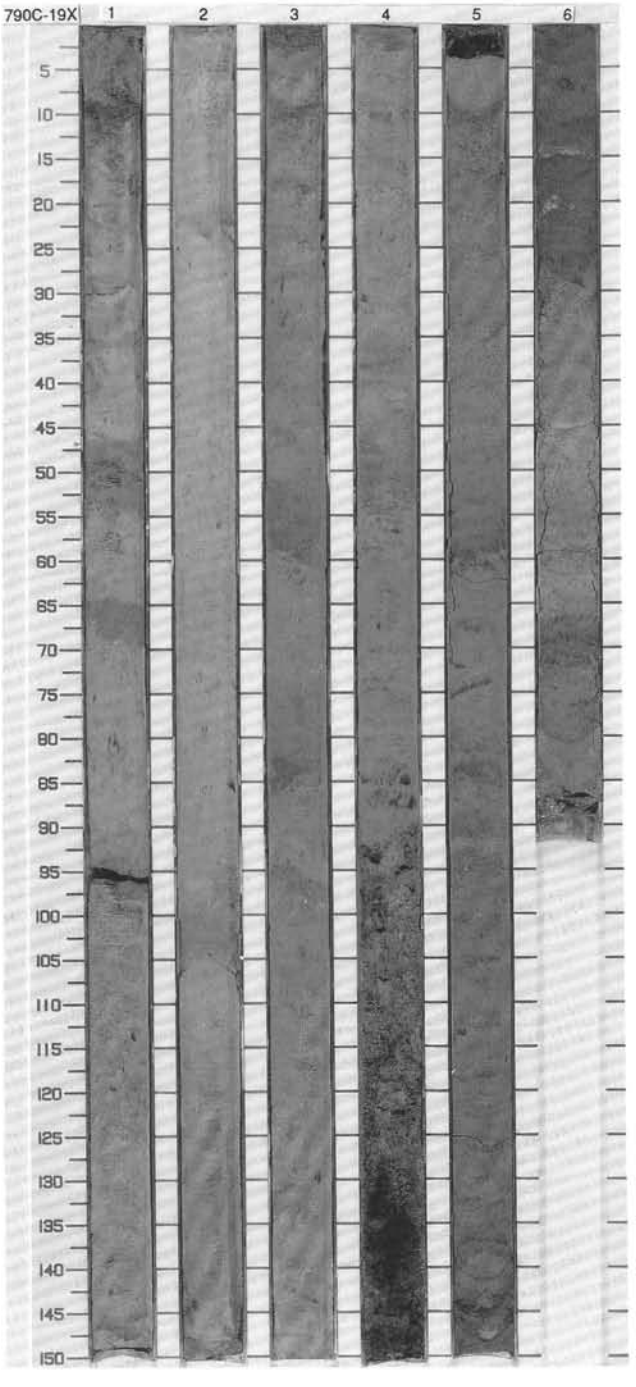
Minor lithologies:
A 61-cm layer of dark gray (N3), grayish black (N2), and olive black (5Y 2/1) PUMICEOUS SANDY GRANULE GRAVEL spans Sections 4 and 5. Ten thin layers (0.3-8 cm thick) of olive gray (5Y 4/2), and gray (5Y 5/1) VITRIC SILT, VITRIC SANDY SILT, NANNOFOSSIL-RICH VITRIC CLAYEY SILT, and NANNOFOSSIL-RICH SANDY MUD occur at various levels in the core. These are glass (ash) layers that bioturbation has mixed in varying degrees with the overlying and underlying sediments.

SMEAR SLIDE SUMMARY (%):

	1, 20 D	1, 52 D	1, 97 D	2, 59 D	2, 103 D	3, 59 D	5, 4 D
TEXTURE:							
Sand	3	3	35	2	3	7	20
Silt	25	40	83	35	87	68	60
Clay	72	57	12	63	10	25	20
COMPOSITION:							
Accessory minerals	—	—	Tr	—	—	1	—
Clay	70	46	10	60	10	20	15
Diatoms	1	5	—	3	—	—	Tr
Feldspar	—	—	5	—	1	1	2
Foraminifers	1	1	—	—	—	1	2
Glass	2	15	79	15	85	61	69
Inorganic calcite	—	1	—	—	—	—	—
Nannofossils	25	30	3	20	3	15	10
Opaques	—	1	3	—	—	—	
Pyrite	—	—	—	—	1	1	2
Radiolarians	—	—	—	1	—	Tr	—
Spicules	1	1	—	1	—	—	—

SMEAR SLIDE SUMMARY (%):

	6, 13 M
TEXTURE:	
Sand	20
Silt	65
Clay	15
COMPOSITION:	
Accessory minerals	1
Clay	15
Feldspar	2
Glass	79
Nannofossils	1
Opaques	2



SITE 790 HOLE C CORE 20X CORED INTERVAL 261.4-271.1 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
QUATERNARY		A/G	R/P		R	ρ=61.1, ρ=59.8, ρ=61.0, ρ=60.7; ϕ=1.82, ϕ=1.74, ϕ=1.73, ϕ=1.82; %$CaCO_3$=25.2, %$CaCO_3$=33.0, %$CaCO_3$=29.8, %$CaCO_3$=27.4		1, 2, 3, CC	0.5, 1.0		X		* ** *	

NANNOFOSSIL-RICH SILTY CLAY NANNOFOSSIL-RICH SANDY MUD

Major lithologies:
Section 1, 0 cm, to Section 2, 63 cm, and Section 3, 130 cm, to Section 4, 31 cm, consists of burrowed, grayish green (5GY 6/1) NANNOFOSSIL-RICH SILTY CLAY with scattered sand-and pebble-sized clasts of gray (N6) pumice. The remainder of the core, except for the core catcher, consists of gritty NANNOFOSSIL-RICH SANDY MUD, with gray pumice clasts up to 5 cm in diameter, all (including the pumice clasts) mottled in colors of grayish green (5GY 6/1, 10GY 5/2) and grayish yellow green (5GY 7/2), apparently due to in situ alteration.

Minor lithologies:
In the core catcher, SANDY SILT coarsens downward to a gritty, gray (5Y 6/1) SAND with dark scoria laminae (CC, 28-34 cm). This sand rests with apparent conformity on grayish black (N2), unconsolidated, SCORIACEOUS LAPILLI TUFF.

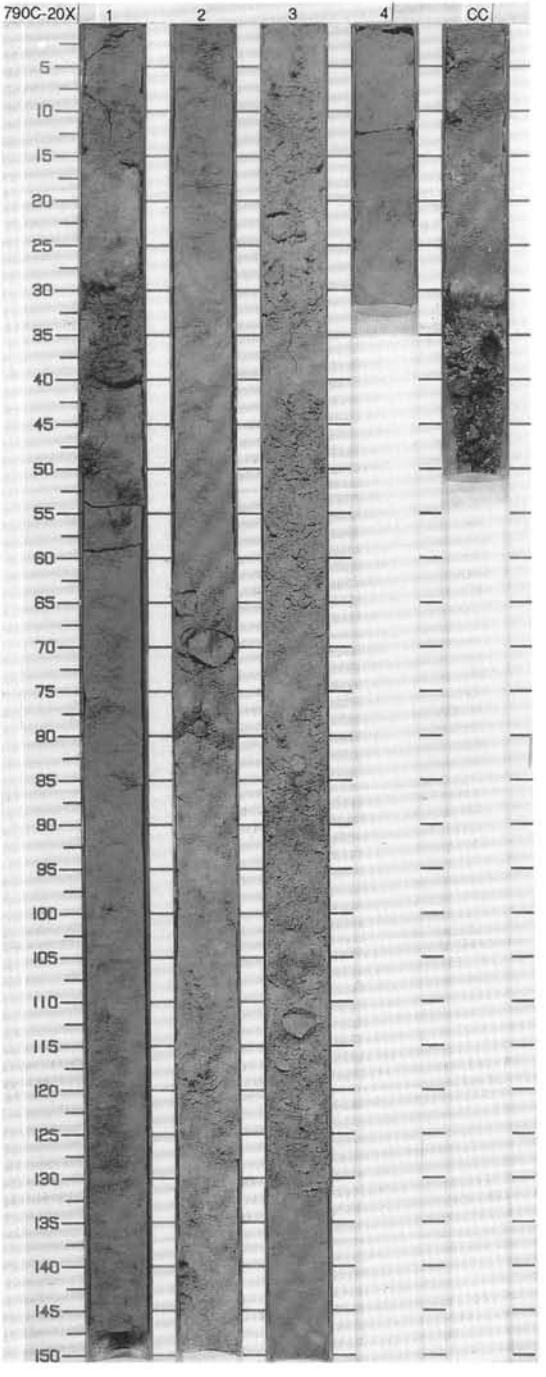
SMEAR SLIDE SUMMARY (%):

	2, 80 D	3, 38 D	3, 46 D	3, 90 D
TEXTURE:				
Sand	10	—	—	—
Silt	90	30	30	50
Clay	—	70	70	50
COMPOSITION:				
Accessory minerals	1	—	1	1
Diatoms	1	1	1	—
Epidote	1	—	—	—
Fe oxide	—	—	—	1
Feldspar	—	—	1	2
Foraminifers	1	2	2	2
Glass	87	27	35	49
Micrite	—	—	—	1
Nannofossils	5	70	50	40
Opaques	1	—	1	1
Quartz	2	—	2	2
Radiolarians	—	—	1	—

SITE 790 HOLE C CORE 21X CORED INTERVAL 271.1-280.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
QUATERNARY	B	C/P CN14a	B					1	0.5, 1.0					All recovery went to the Paleontology and Igneous Petrology Laboratories

126 790C 22X NO RECOVERY



SITE 790 HOLE C CORE 23X CORED INTERVAL 290.2-299.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
QUATERNARY		R/P CN14a?						1	0.5 1.0					All recovery went to the Paleontology and Igneous Laboratory.

SITE 790 HOLE C CORE 24X CORED INTERVAL 299.9-309.5 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
		B												All recovery went to the Paleontology and Igneous Petrology Laboratories.

SITE 790 HOLE C CORE 25X CORED INTERVAL 309.5-319.2 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
														All recovery went to the Igneous Petrology Laboratory.

126 790C 26X NO RECOVERY

SITE 790 HOLE C CORE 27X CORED INTERVAL 328.2-338.5 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
	B	B	B											All recovery went to the Paleontology and Igneous Petrology Laboratories.

126 790C 28X NO RECOVERY

126 790C 29X NO RECOVERY

126 790C 30X NO RECOVERY

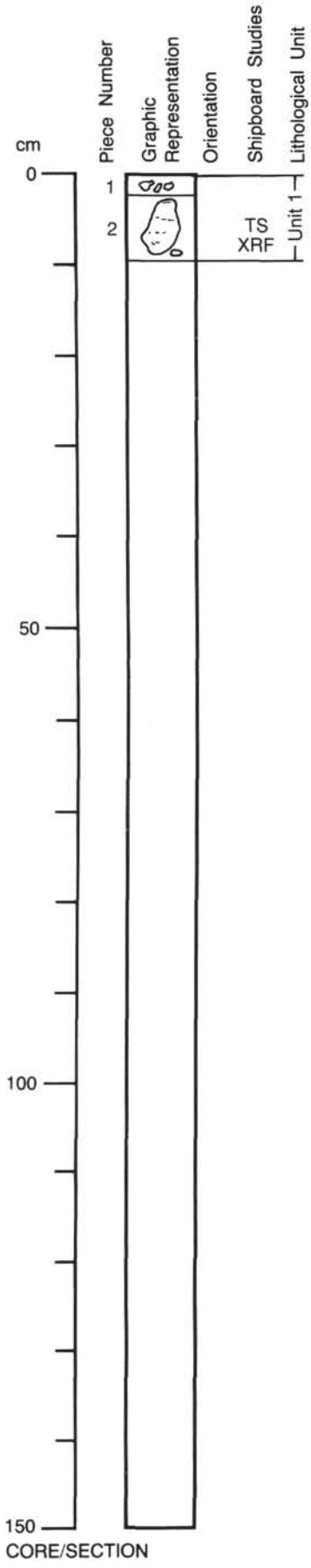
126 790C 31X NO RECOVERY

SITE 790 HOLE C CORE 32X CORED INTERVAL 367.7-377.4 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
QUATERNARY - PLIOCENE - PLEISTOCENE	B	R/M	B					1, 2	0.5, 1.0					All recovery went to the Paleontology and Igneous Petrology Laboratories.

SITE 790 HOLE C CORE 33X CORED INTERVAL 377.4-387.1 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
QUATERNARY	B	R/G CN14a	B					1	0.5, 1.0					All recovery went to the Paleontology and Igneous Petrology Laboratories.

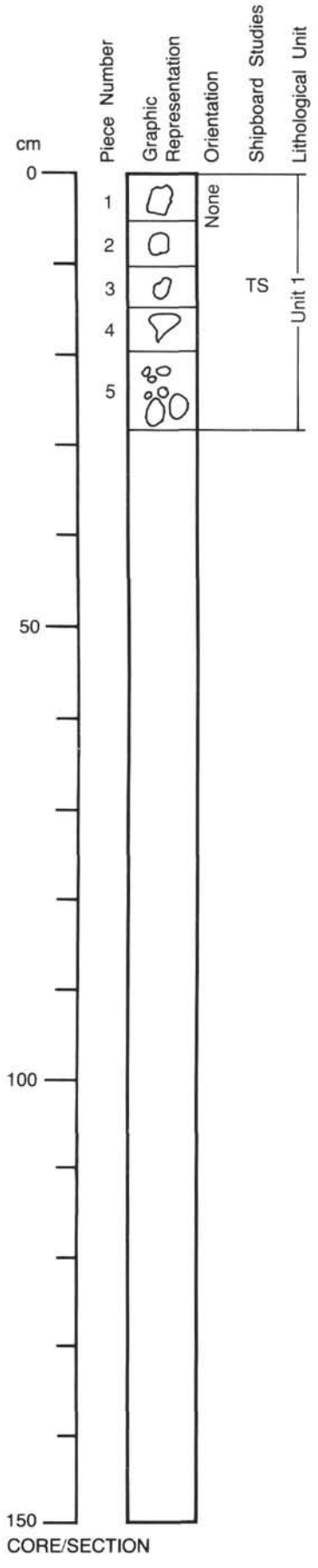


126-790C-21X-CC

UNIT 1: BASALT

Pieces 1-2

CONTACTS: None.
PHENOCRYSTS:
Olivine - 1%; 0.1-0.2 mm; euhedral, fresh.
Plagioclase - 5%; 0.1 mm; euhedral, fresh.
Cr-Spinel - <0.01%; <0.01 mm; euhedral, in olivine.
GROUNDMASS: Dark brown glass, translucent in smear slide.
VESICLES: 45%; 0.5-4 mm; round; even.
COLOR: Pale green-brown to very dark gray.
STRUCTURE: None.
ALTERATION: Glass to smectite in vesicles.
VEINS/FRACTURES: None.

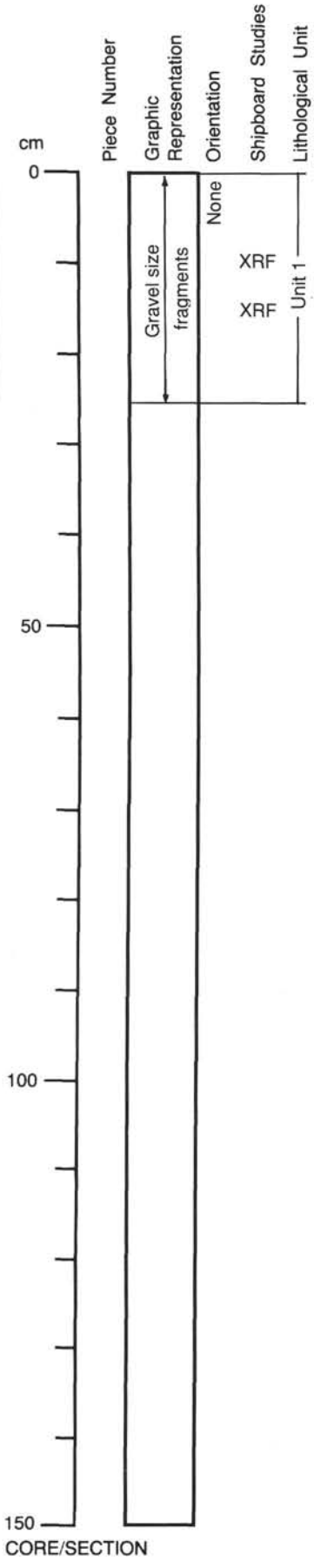


126-790C-23X-CC

UNIT 1: BASALT

Pieces 1-5

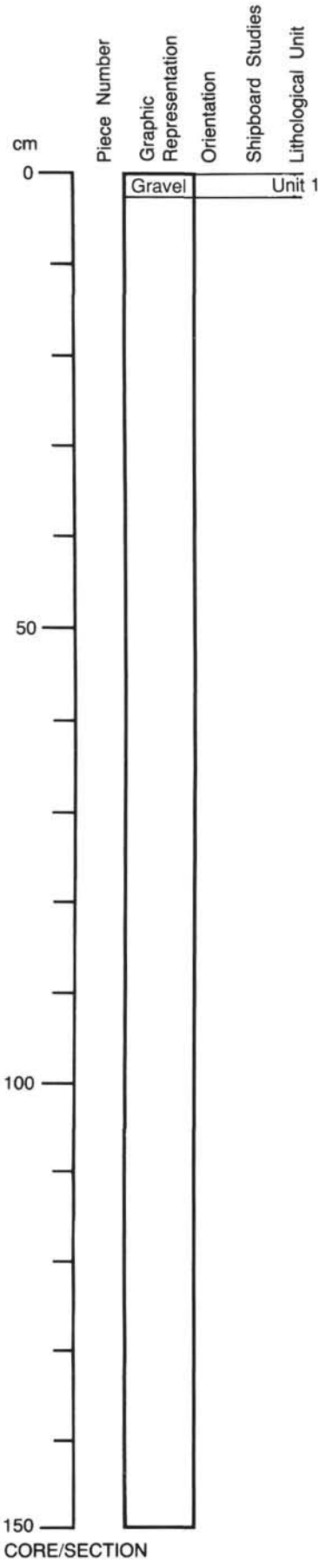
CONTACTS: None.
PHENOCRYSTS:
Olivine - 1%; 0.1-0.2 mm; euhedral, fresh.
Plagioclase - 5%; 0.1 mm; euhedral, fresh.
Cr-Spinel - <0.01%; <0.01 mm; euhedral, in olivine.
GROUNDMASS: Dark brown glass, translucent in smear slide.
VESICLES: 45%; 0.5-4 mm; round; even.
COLOR: Pale green-brown to very dark gray.
STRUCTURE: None.
ALTERATION: Glass to smectite in vesicles.
VEINS/FRACTURES: None.



126-790C-24X-CC

UNIT 1: BASALT

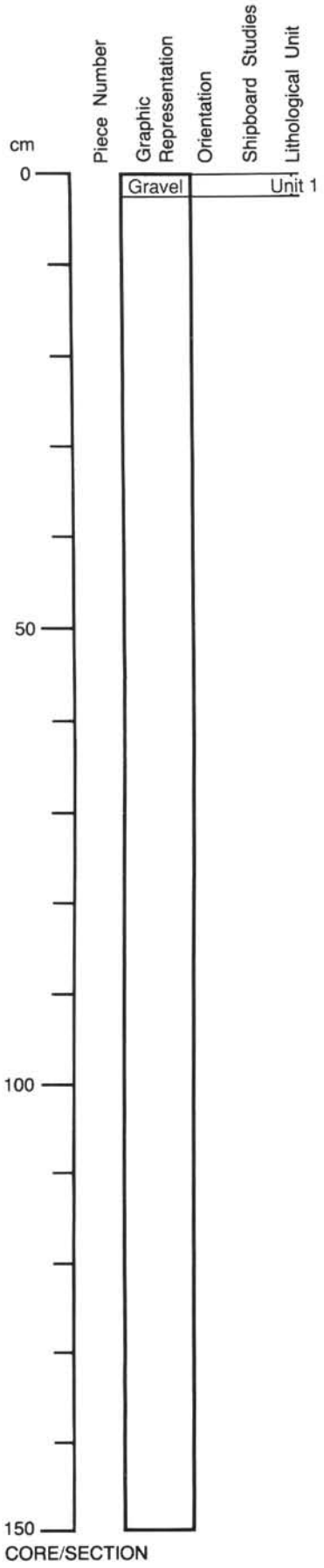
CONTACTS: None.
PHENOCRYSTS:
Olivine - 1%; 0.1-0.2 mm; euhedral, fresh.
Plagioclase - 5%; 0.1 mm; euhedral, fresh.
Cr-Spinel - <0.01%; <0.01 mm; euhedral, in olivine.
GROUNDMASS: Dark brown glass, translucent in smear slide.
VESICLES: 45%; 0.5-4 mm; round; even.
COLOR: Pale green-brown to very dark gray.
STRUCTURE: None.
ALTERATION: Glass to smectite in vesicles.
VEINS/FRACTURES: None.



126-790C-25X-CC

UNIT 1: BASALT

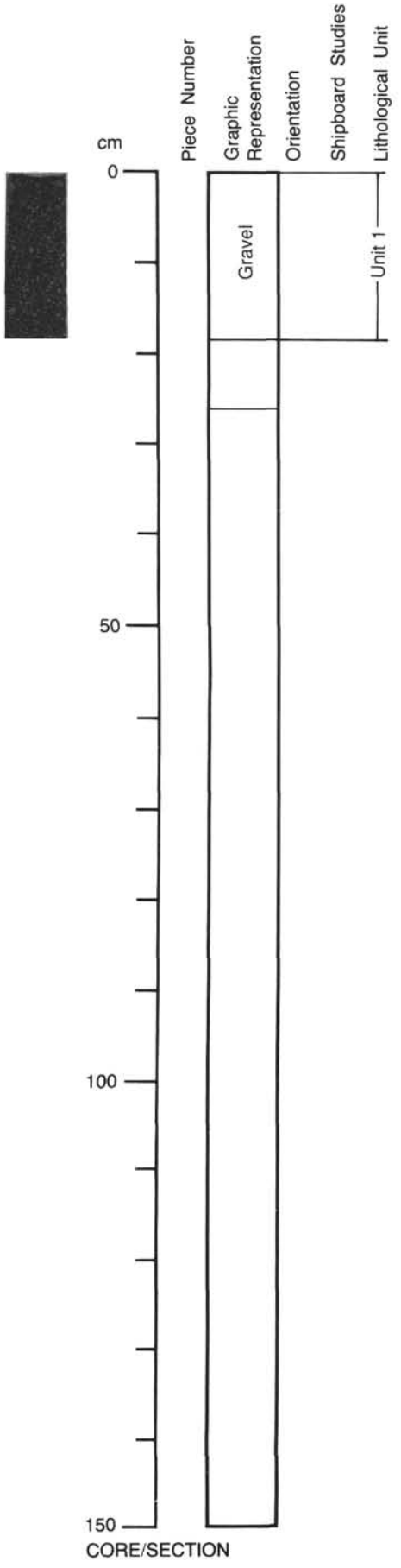
CONTACTS: None.
PHENOCRYSTS:
Olivine - 1%; 0.1-0.2 mm; euhedral, fresh.
Plagioclase - 5%; 0.1 mm; euhedral, fresh.
Cr-Spinel - <0.01%; <0.01 mm; euhedral, in olivine.
GROUNDMASS: Dark brown glass, translucent in smear slide.
VESICLES: 45%; 0.5-4 mm; round; even.
COLOR: Pale green-brown to very dark gray.
STRUCTURE: None.
ALTERATION: Glass to smectite in vesicles.
VEINS/FRACTURES: None.



126-790C-26X-CC

UNIT 1: BASALT

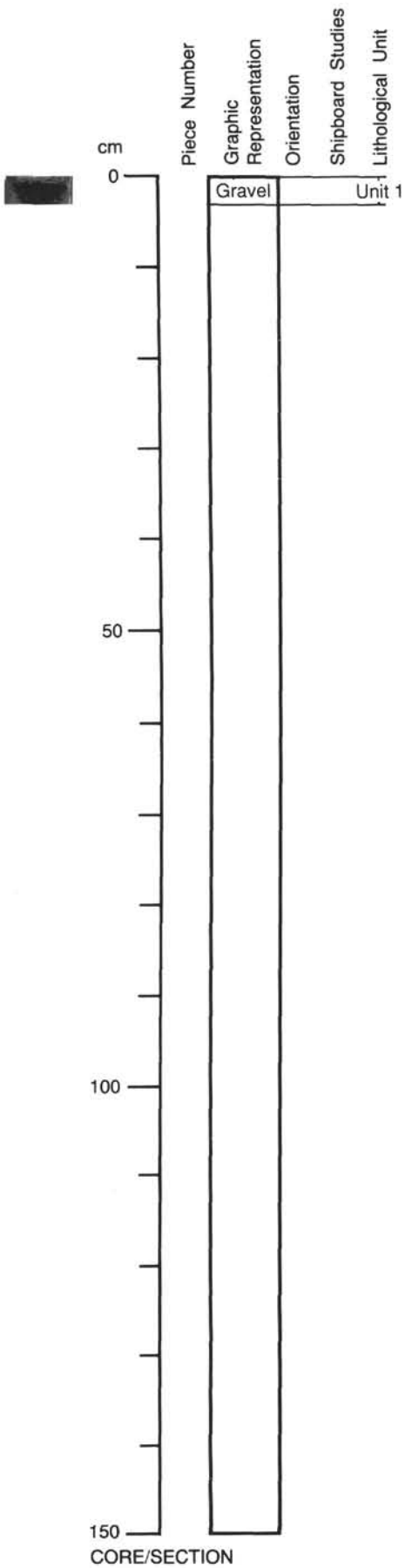
CONTACTS: None.
PHENOCRYSTS:
Olivine - 1%; 0.1-0.2 mm; euhedral, fresh.
Plagioclase - 5%; 0.1 mm; euhedral, fresh.
Cr-Spinel - <0.01%; <0.01 mm; euhedral, in olivine.
GROUNDMASS: Dark brown glass, translucent in smear slide.
VESICLES: 45%; 0.5-4 mm; round; even.
COLOR: Pale green-brown to very dark gray.
STRUCTURE: None.
ALTERATION: Glass to smectite in vesicles.
VEINS/FRACTURES: None.



126-790C-27X-CC

UNIT 1: BASALT

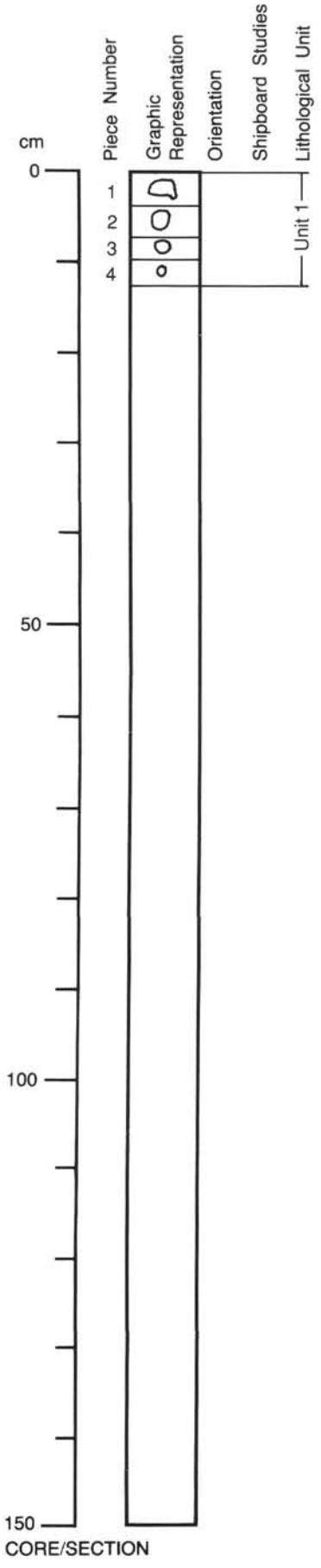
CONTACTS: None.
PHENOCRYSTS:
Olivine - 1%; 0.1-0.2 mm; euhedral, fresh.
Plagioclase - 5%; 0.1 mm; euhedral, fresh.
Cr-Spinel - <0.01%; <0.01 mm; euhedral, in olivine.
GROUNDMASS: Dark brown glass, translucent in smear slide.
VESICLES: 45%; 0.5-4 mm; round; even.
COLOR: Pale green-brown to very dark gray.
STRUCTURE: None.
ALTERATION: Glass to smectite in vesicles.
VEINS/FRACTURES: None.



126-790C-29X-CC

UNIT 1: BASALT

PHENOCRYSTS:
Olivine - 1%; 0, 1-0, 2; euhedral, fresh.
Plagioclase - 5%; 0.1; euhedral, fresh.
CR-Spinel - <0.01%; <0.01; euhedral, in olivine.
GROUNDMASS: Dark brown glass, translucent in smear slide.
VESICLES: 45%; 0.5-4 mm; *round*; *even*; *none*.
Miaroles: None.
COLOR: Pale green-brown to very dark gray.
ALTERATION: Glass to smectite in vesicules.

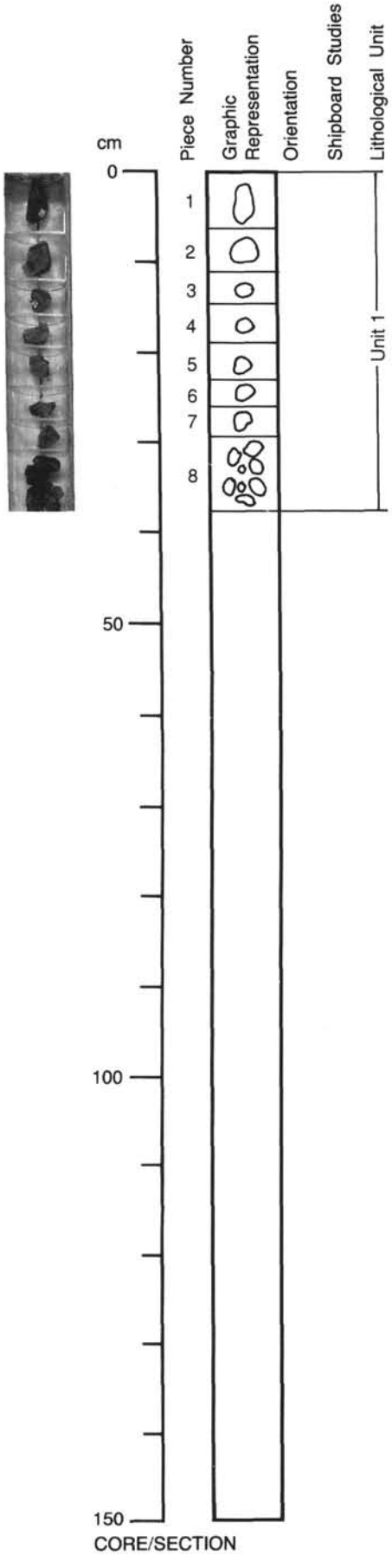


126-790C-32X-CC

UNIT 1: BASALT

Pieces 1-4

CONTACTS: None.
PHENOCRYSTS:
Olivine - 1%; 0.1-0.2 mm; euhedral, fresh.
Plagioclase - 5%; 0.1 mm; euhedral, fresh.
Cr-Spinel - <0.01%; <0.01 mm; euhedral, in olivine.
GROUNDMASS: Dark brown glass, translucent in smear slide.
VESICLES: 45%; 0.5-4 mm; round; even.
COLOR: Pale green-brown to very dark gray.
STRUCTURE: None.
ALTERATION: Glass to smectite in vesicles.
VEINS/FRACTURES: None.



126-790C-33X-CC

UNIT 1: BASALT

Pieces 1-8

CONTACTS: None.
PHENOCRYSTS:
Olivine - 1%; 0.1-0.2 mm; euhedral, fresh.
Plagioclase - 5%; 0.1 mm; euhedral, fresh.
Cr-Spinel - <0.01%; <0.01 mm; euhedral, in olivine.
GROUNDMASS: Dark brown glass, translucent in smear slide.
VESICLES: 45%; 0.5-4 mm; round; even.
COLOR: Pale green-brown to very dark gray.
STRUCTURE: None.
ALTERATION: Glass to smectite in vesicles.
VEINS/FRACTURES: None.

126-790A-3H-03 (1-3 cm) OBSERVER: GIL WHERE SAMPLED:

ROCK NAME: Basalt

GRAIN SIZE: Fine

TEXTURE: Vesicular

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Olivine	1	1	0.4		Euhedral	Fresh.
Plagioclase	5	5	0.2		Acicular	Fresh.
GROUNDMASS						
Devitrifying glass	N/A	N/A	N/A		N/A	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	40		0.5-1	Open	Round

COMMENTS: No piece # given.

126-790A-4H-02 (69-70 cm) OBSERVER: GIL WHERE SAMPLED:

ROCK NAME: Moderately

GRAIN SIZE:

TEXTURE:

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Olivine	1	1	0.4		N/A	Fresh. Also includes spinel.
Plagioclase	5	5	0.1-0.4		N/A	Fresh.
GROUNDMASS						
Devitrifying glass	N/A	N/A	N/A		N/A	Some fresh glass in thin vesicle walls. Glassier adjacent to vesicles.

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	40		1.0-1.5	Open	Round

COMMENTS: No piece # given.

126-790C-21X-CC (Piece 2,) OBSERVER: GIL WHERE SAMPLED:

ROCK NAME: Basalt

GRAIN SIZE: Fine

TEXTURE: Vesicular

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Olivine	4	4	0.5-1.0		Equant	One 0.6 mm long. Includes spinel.
Plagioclase	20	20	0.1-0.7		Euhedral	
Clinopyroxene	1	1	N/A		Equant	Olivine vs clinopyroxene difficult.
GROUNDMASS						
Glass	N/A	N/A	N/A		N/A	Devitrifying.

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE	COMMENTS
Vesicles	20		0.2-0.3	Open	Elongate. some yellow crystals.	Elongate. Large elongate; associated with veinlets of finer-grained material which parallel plagioclase alignment; more vesicular than rest.
Vesicles	10		0.2-1.0	Open		

COMMENTS: Also elongate patches of finer-grained vitrophyric material enclosed within above lava. Same assemblage, but finer grained (plagioclase=0.1 mm). Probably inclusion of chill material during eruption. No top or bottom interval given.

126-790C-23X-CC (Piece 3,) OBSERVER: GIL WHERE SAMPLED:

ROCK NAME: Basalt scoria

GRAIN SIZE: Fine

TEXTURE: Vesicular

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Olivine	1	1	0.1-0.2		Acicular	Fresh, zoned, plucked. Some clots. Includes spinel.
Plagioclase	5	5	0.1-0.3		Euhedral	Fresh. Some clots.
GROUNDMASS						
Glass	N/A	N/A	N/A		N/A	Devitrified.

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE	COMMENTS
Vesicles	60		0.2	Little	Round	Some yellow crystals on walls.

COMMENTS: 2 cm diameter clast; looks more altered in hand specimen than thin section. No top or bottom intervals given.