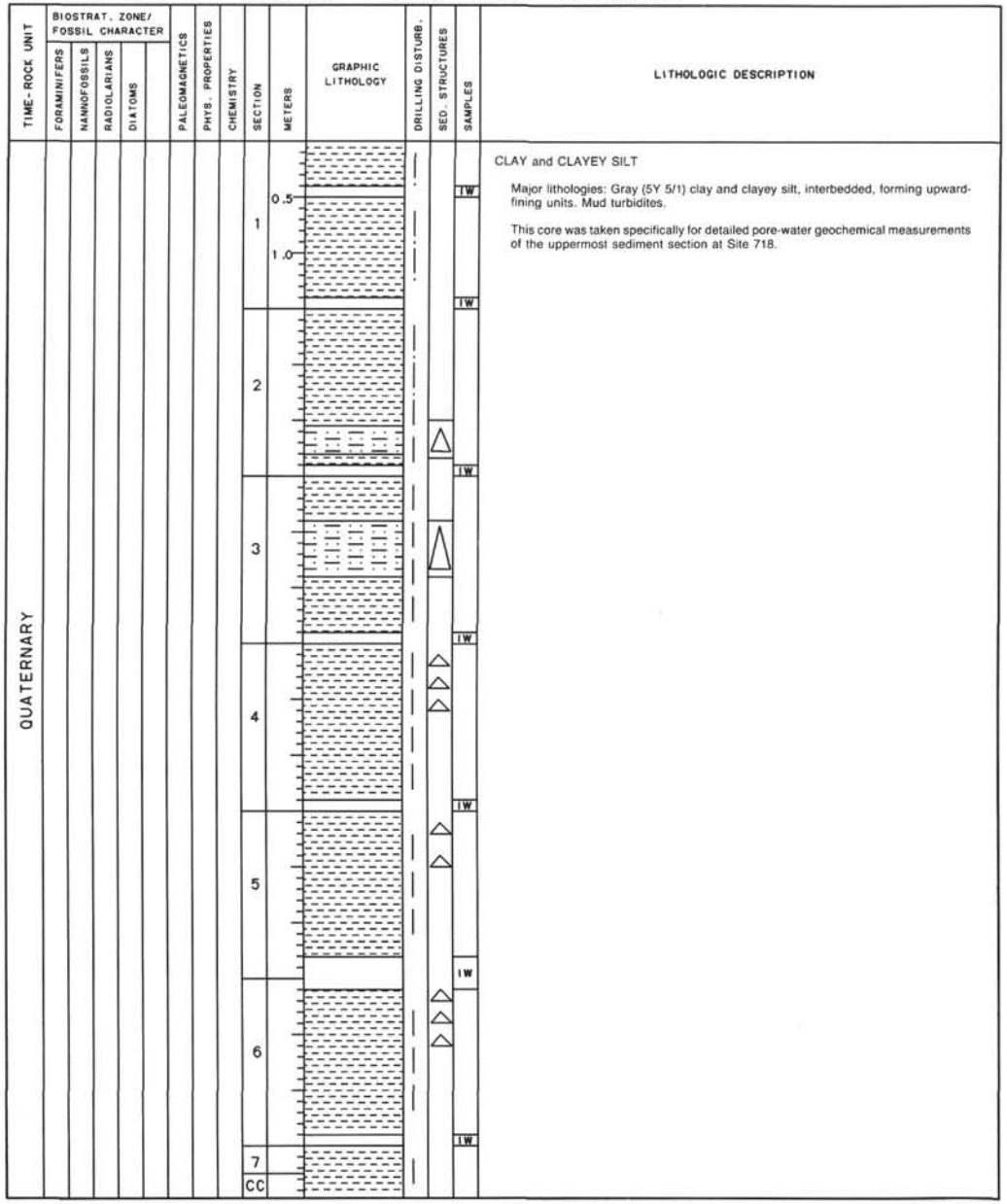
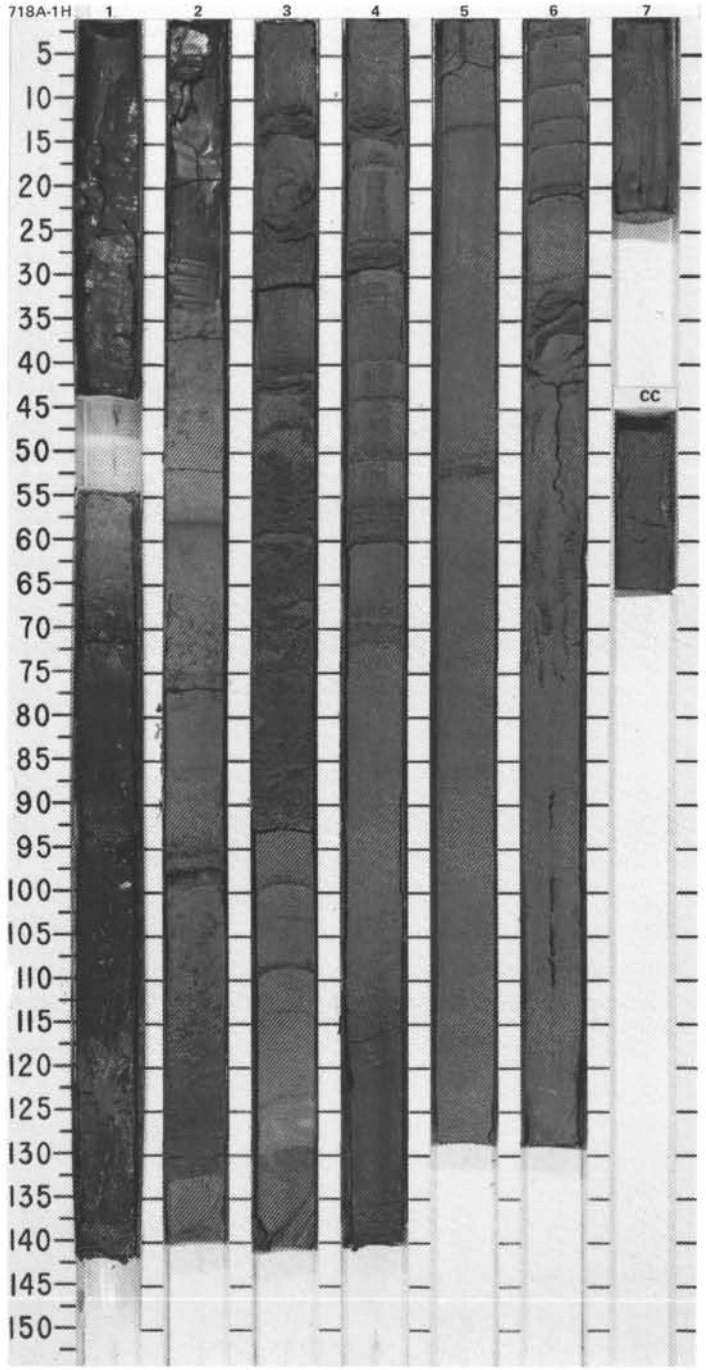
SITE 718 HOLE A CORE 1H CORED INTERVAL 0.0-9.5 mbsf



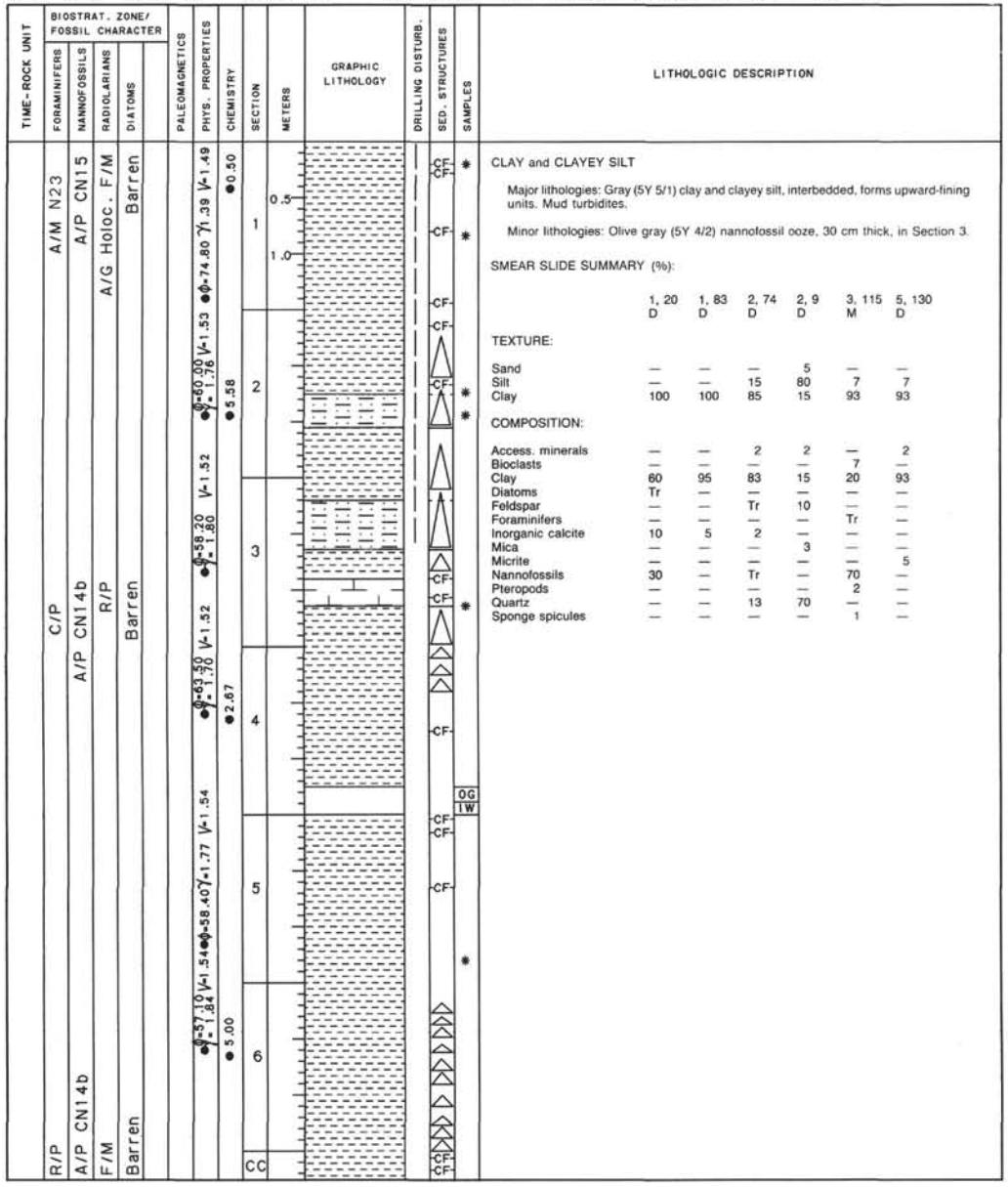
CLAY and CLAYEY SILT

Major lithologies: Gray (5Y 5/1) clay and clayey silt, interbedded, forming upward-fining units. Mud turbidites.

This core was taken specifically for detailed pore-water geochemical measurements of the uppermost sediment section at Site 718.



SITE 718 HOLE B CORE 1H CORED INTERVAL 4730.2-4739.5 mbsl; 0.0-9.3 mbsf



LITHOLOGIC DESCRIPTION

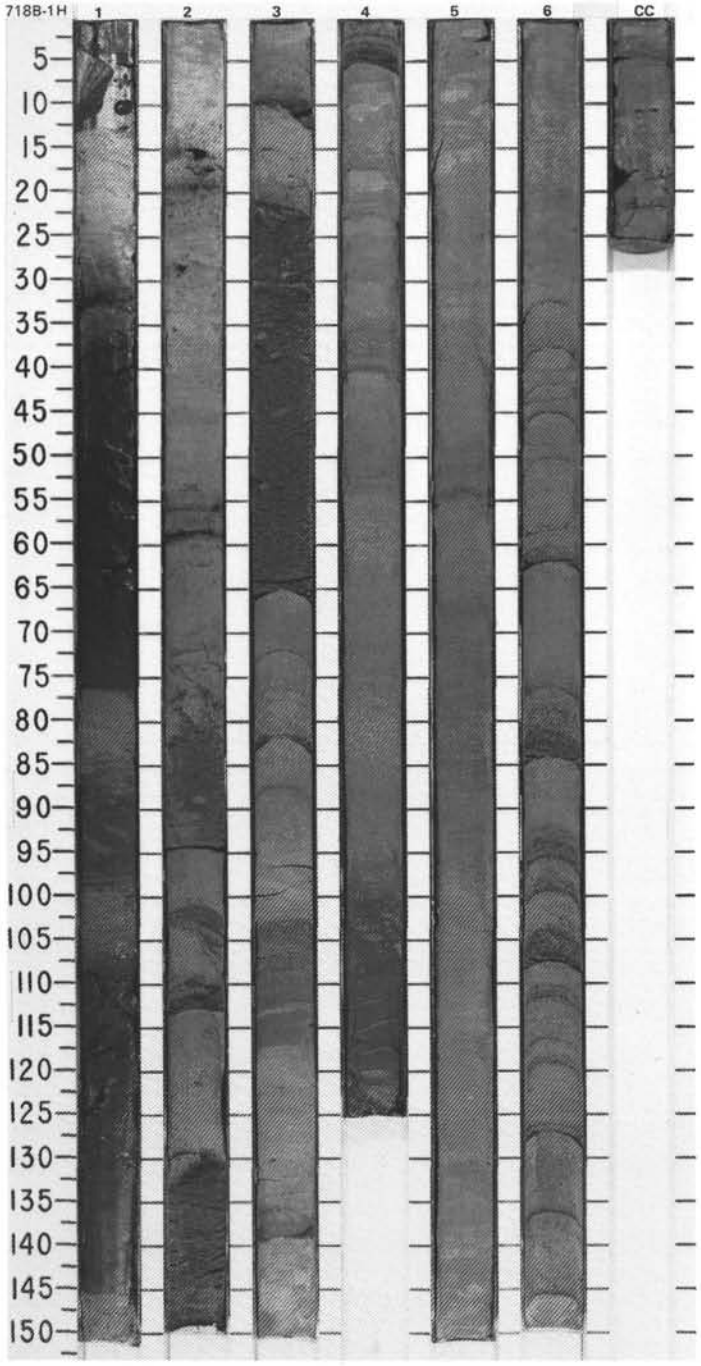
CLAY and CLAYEY SILT

Major lithologies: Gray (5Y 5/1) clay and clayey silt, interbedded, forms upward-fining units. Mud turbidites.

Minor lithologies: Olive gray (5Y 4/2) nannofossil ooze, 30 cm thick, in Section 3.

SMEAR SLIDE SUMMARY (%):

	1, 20 D	1, 83 D	2, 74 D	2, 9 D	3, 115 M	5, 130 D
TEXTURE:						
Sand	—	—	—	5	—	—
Silt	—	—	15	80	7	7
Clay	100	100	85	15	93	93
COMPOSITION:						
Access. minerals	—	—	2	2	—	2
Bioclasts	—	—	—	—	7	—
Clay	60	95	83	15	20	93
Diatoms	Tr	—	—	—	—	—
Feldspar	—	—	Tr	10	—	—
Foraminifers	—	—	—	—	Tr	—
Inorganic calcite	10	5	2	—	—	—
Mica	—	—	—	3	—	—
Micrite	—	—	—	—	—	5
Nannofossils	30	—	Tr	—	70	—
Pteropods	—	—	—	—	2	—
Quartz	—	—	13	70	—	—
Sponge spicules	—	—	—	—	1	—



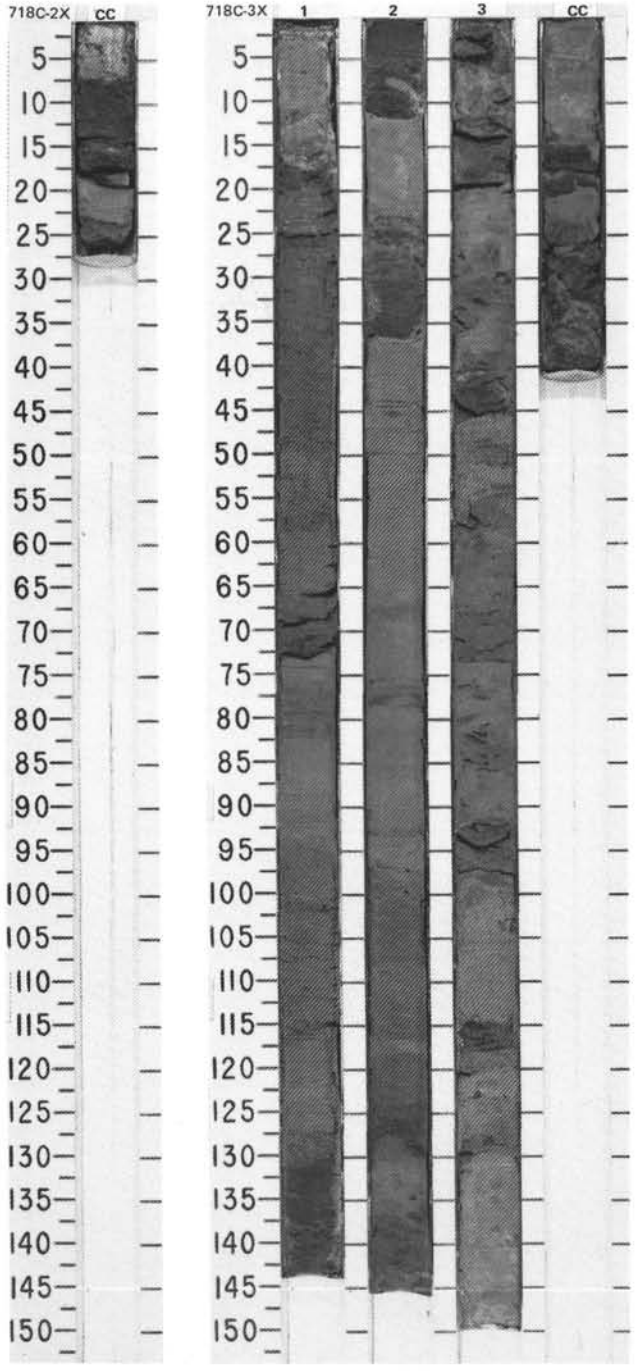
CORE–718C–1X–NO RECOVERY

SITE 718 HOLE C CORE 2X CORED INTERVAL 4749.0-4758.5 mbsl; 18.8-28.3 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/P	R/P CN14b	Barren	Barren				1						SILT and CLAY Major lithologies: Gray (5Y 4/1) silt and clay.

SITE 718 HOLE C CORE 3X CORED INTERVAL 4758.5-4768.0 mbsl; 28.3-37.8 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
	F/P C/M	R/P CN14 R/P CN14a	Barren Barren	Barren PLIO-PLEISTOCENE		●Φ-61.10 γ-1.73 V-1.522	●13.08 ●3.83	1 2 3 CC	0.5 1.0				IW *	CLAY, SILTY CLAY, and CLAYEY SILT Major lithology: Interbedded gray (5Y 5/1) clay, silty clay, and clayey silt, forms upward-fining sequences. Mud turbidites. Minor lithology: Olive green (5Y 4/3) nannofossil ooze in Section 2. SMEAR SLIDE SUMMARY (%): 2, 100 M TEXTURE: Silt 1; Clay 99 COMPOSITION: Clay 40; Inorganic calcite 1; Mica 2; Nannofossils 57; Sponge spicules Tr



SITE 718 HOLE C CORE 4X CORED INTERVAL 4768.0-4777.5 mbsl; 37.8-47.3 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
	Barren	CN14a	Barren	Barren		ϕ=55.90 γ=1.79	3.83	1, CC	0.5			△ △	* *	SILT, SANDY SILT, and CLAY
	Barren	R/P	R/P	Redeposited										

Major lithology: Gray (5Y 4/1) silt and clay. Sandy silt in CC.

SMEAR SLIDE SUMMARY (%):

	1, 28 D	CC, 12 D
TEXTURE:		
Sand	—	20
Silt	90	80
Clay	—	10
COMPOSITION:		
Access. minerals	15	5
Mica	5	5
Quartz	80	90

CORE 116–718C–5X–NO RECOVERY

CORE 116–718C–6X–NO RECOVERY

CORE 116–718C–7X–NO RECOVERY

CORE 116–718C–8X–NO RECOVERY

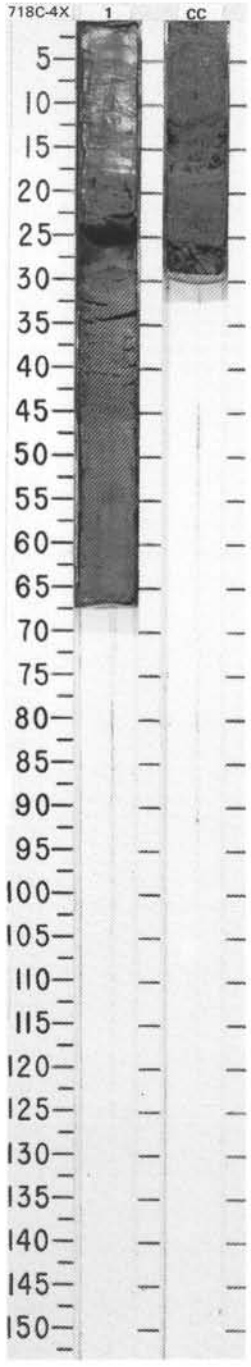
SITE 718 HOLE C CORE 9X CORED INTERVAL 4815.5-4825.0 mbsl; 85.3-94.8 mbsf

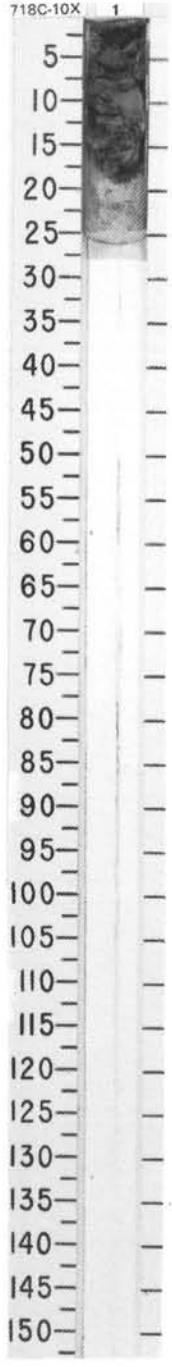
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	F/G N22-23	CN14a	Barren	Barren				CC						10 cm in CC, given to paleontologists.
	R/P													

SITE 718 HOLE C CORE 10X CORED INTERVAL 4825.0-4834.5 mbsl; 94.8-104.3 mbsf

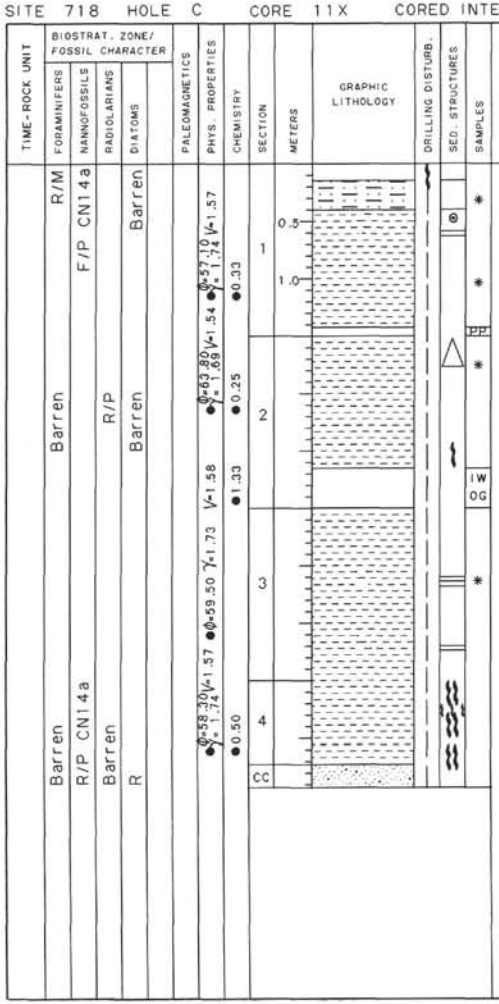
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	F/M N22	Barren	R/P	R				1						CLAY and SILT

Major lithology: Gray (5Y 5/1) clay and olive gray (5Y 4/2) silt mixture formed by drilling disturbance.





SITE 718 HOLE C CORE 11X CORED INTERVAL 4834.5-4844.0 mbsl; 104.3-113.8 mbsf



LITHOLOGIC DESCRIPTION

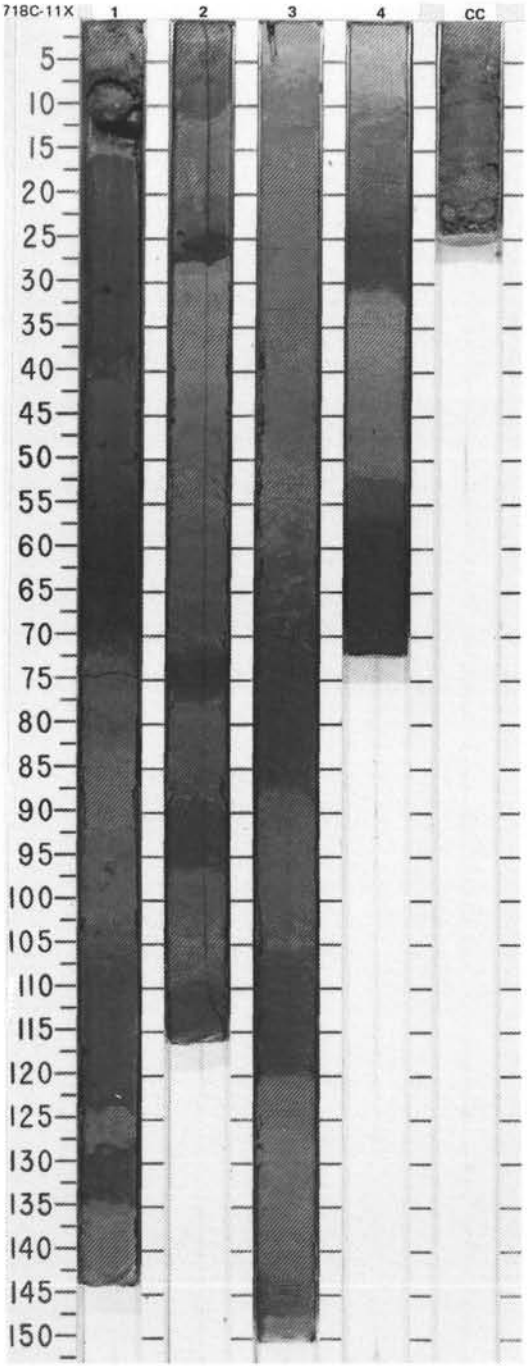
CLAY

Major lithology: Clay, grayish green (10GY 5/1), dark grayish green (10Y 4/1), and *dark gray (5Y 4/1) to very dark gray (5Y 3/1), dark olive gray (5Y 3/2), and black (5Y* 2.5/1), interbedded, with gradational and indistinct contacts. Upward-fining sequence at top of Section 2. Minor bioturbation in Sections 2 and 3.

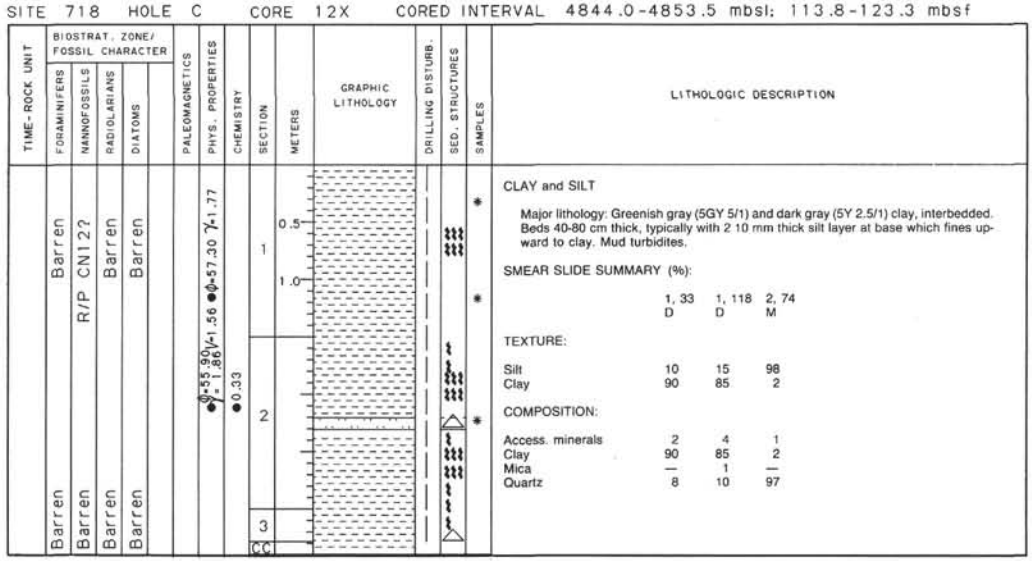
Minor lithologies: a. Silty clay, very dark gray (5Y 3/1), with 5% plant debris in Section 1, 15-40 cm. b. Pyrite silty clay or silt laminas in Section 1, 55 cm, and Section 3, 62-65 and 117 cm. c. Sandy silt, olive gray (5Y 4/2), in CC.

SMEAR SLIDE SUMMARY (%):

	1, 31 D	1, 103 D	2, 25 D	3, 65 D	
TEXTURE:					
Sand	—	—	—	—	10
Silt	15	3	70	43	
Clay	85	97	30	47	
COMPOSITION:					
Access. minerals		—	1	—	15 —
Clay	84	97	30	47	
Feldspar	—	—	—	10	—
Mica	—	1	—	4	—
Micrite	2	1	1	—	
Nannofossils	1	—	—	—	—
Opaques	—	—	—	—	50
Plant debris	5	—	2	—	—
Quartz	8	—	—	40	1



SITE 718 HOLE C CORE 12X CORED INTERVAL 4844.0-4853.5 mbsl; 113.8-123.3 mbsf



LITHOLOGIC DESCRIPTION

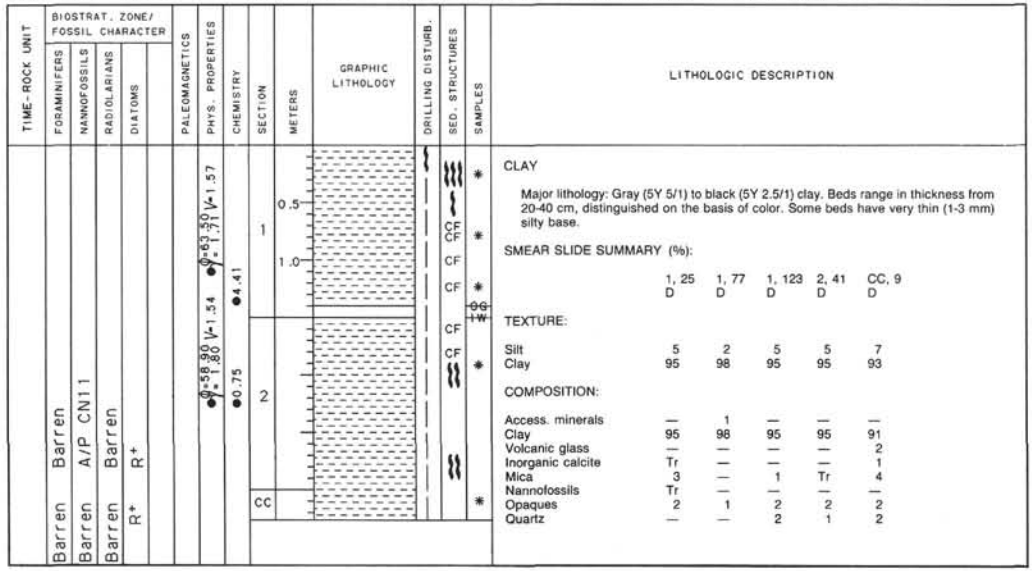
CLAY and SILT

Major lithology: Greenish gray (5GY 5/1) and dark gray (5Y 2.5/1) clay, interbedded. Beds 40-80 cm thick, typically with 2 10 mm thick silt layer at base which fines upward to clay. Mud turbidites.

SMEAR SLIDE SUMMARY (%):

	1, 33 D	1, 118 D	2, 74 M
TEXTURE:			
Silt	10	15	98
Clay	90	85	2
COMPOSITION:			
Access. minerals	2	4	1
Clay	90	85	2
Mica	—	1	—
Quartz	8	10	97

SITE 718 HOLE C CORE 13X CORED INTERVAL 4853.5-4863.0 mbsl; 123.3-132.8 mbsf



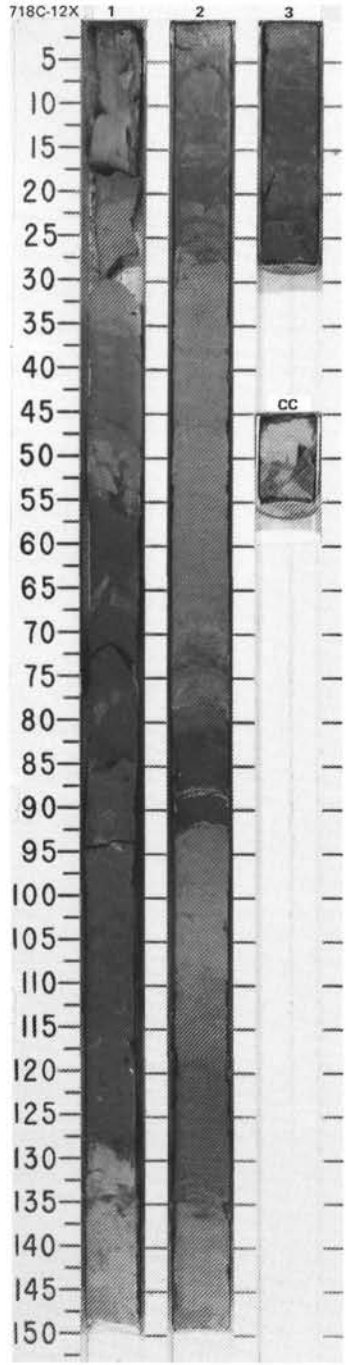
LITHOLOGIC DESCRIPTION

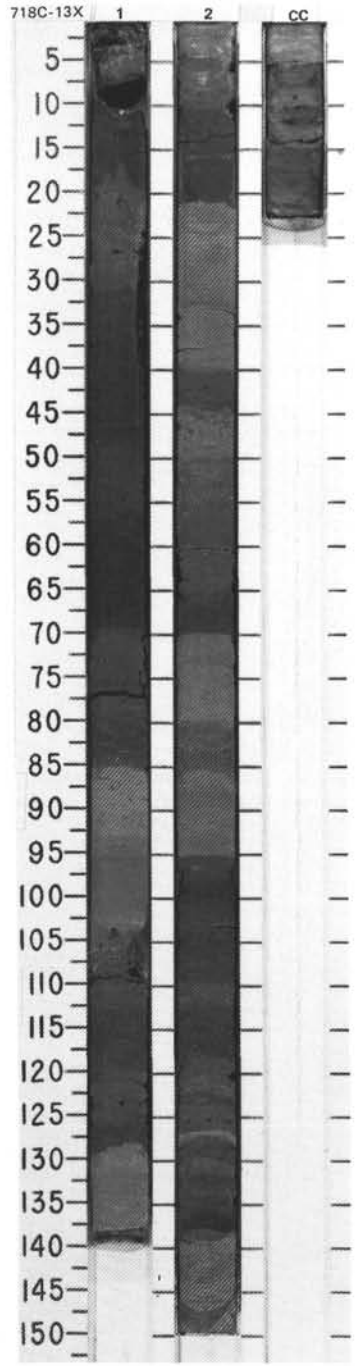
CLAY

Major lithology: Gray (5Y 5/1) to black (5Y 2.5/1) clay. Beds range in thickness from 20-40 cm, distinguished on the basis of color. Some beds have very thin (1-3 mm) silty base.

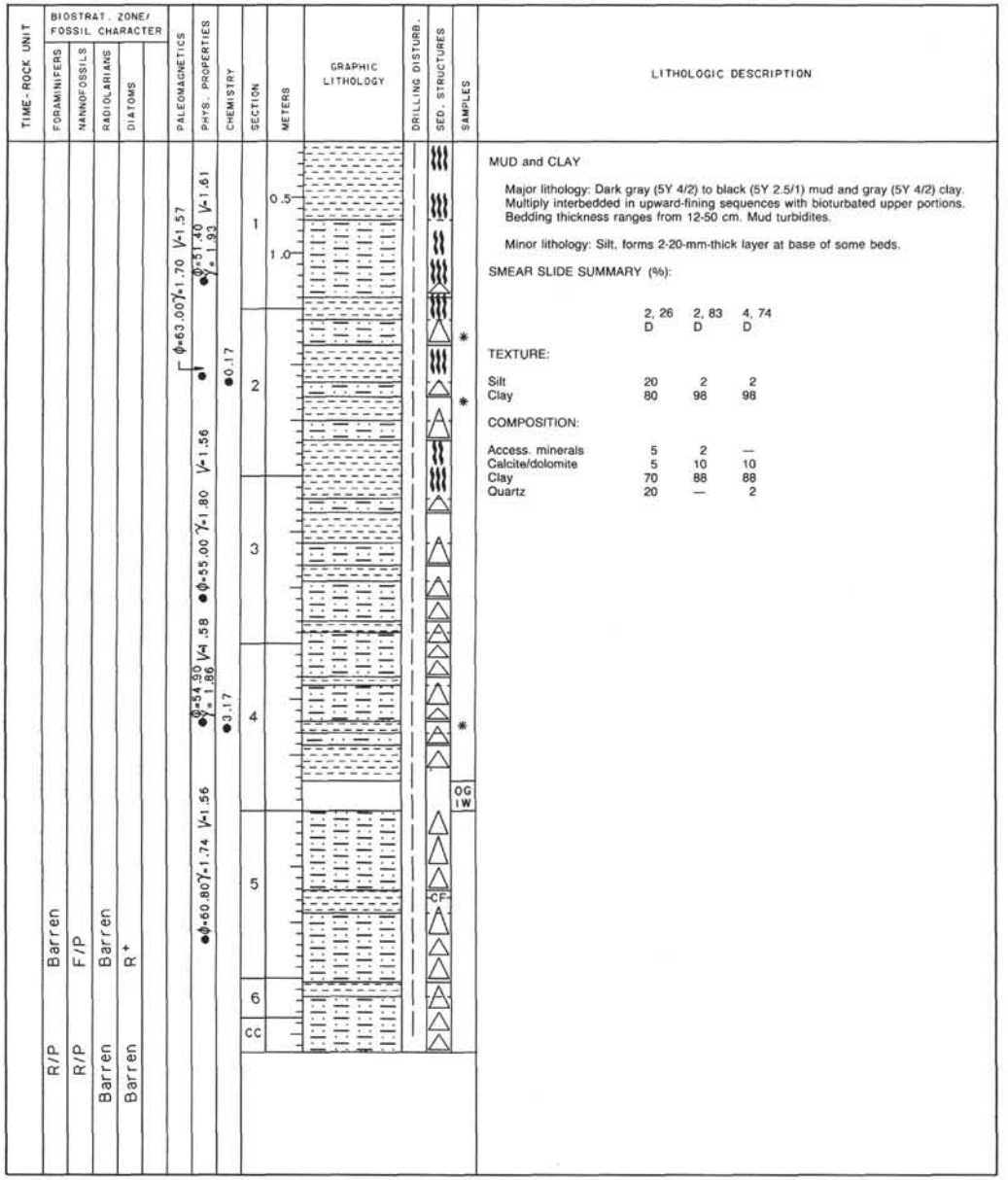
SMEAR SLIDE SUMMARY (%):

	1, 25 D	1, 77 D	1, 123 D	2, 41 D	CC, 9 D
TEXTURE:					
Silt	5	2	5	5	7
Clay	95	98	95	95	93
COMPOSITION:					
Access. minerals	—	1	—	—	—
Clay	95	98	95	95	91
Volcanic glass	—	—	—	—	2
Inorganic calcite	Tr	—	—	—	1
Mica	3	—	1	Tr	4
Nannofossils	Tr	—	—	—	—
Opaques	2	1	2	2	2
Quartz	—	—	2	1	2





SITE 718 HOLE C CORE 14X CORED INTERVAL 4863.0-4872.5 mbsl; 132.8-142.3 mbsf



LITHOLOGIC DESCRIPTION

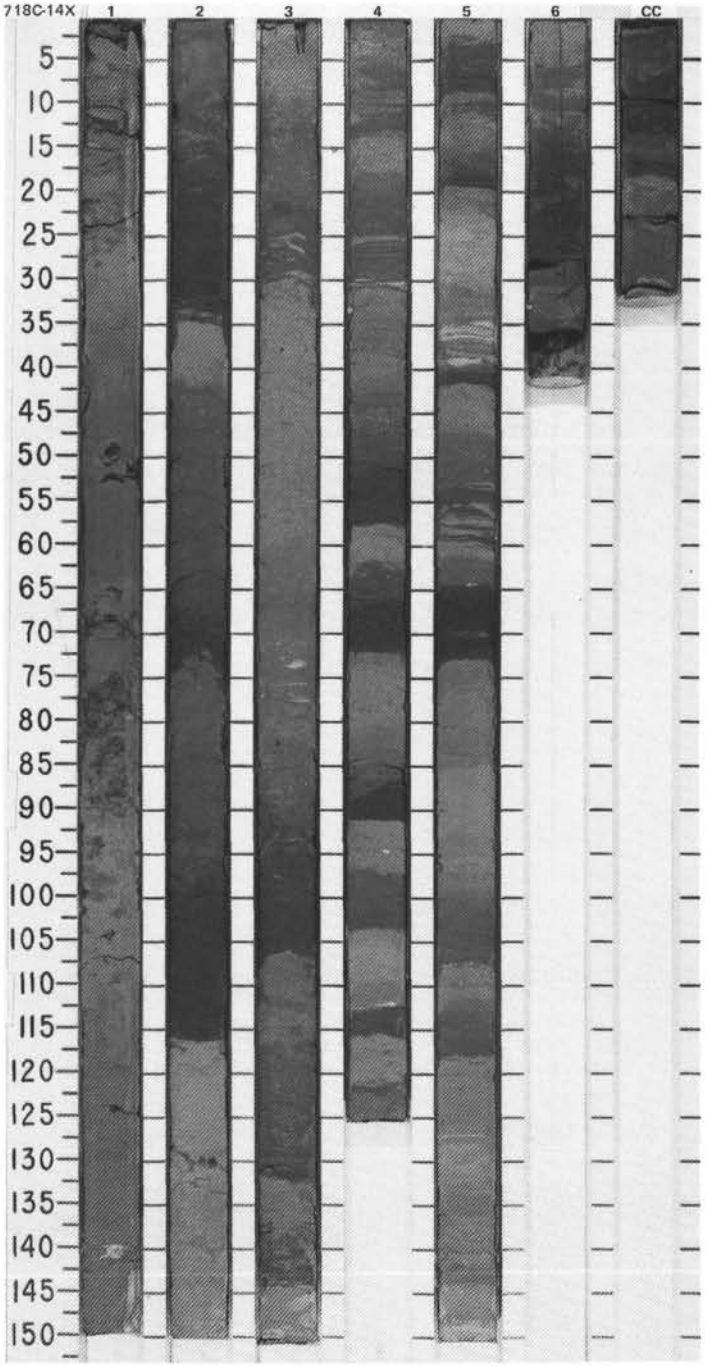
MUD and CLAY

Major lithology: Dark gray (5Y 4/2) to black (5Y 2.5/1) mud and gray (5Y 4/2) clay. Multiply interbedded in upward-fining sequences with bioturbated upper portions. Bedding thickness ranges from 12-50 cm. Mud turbidites.

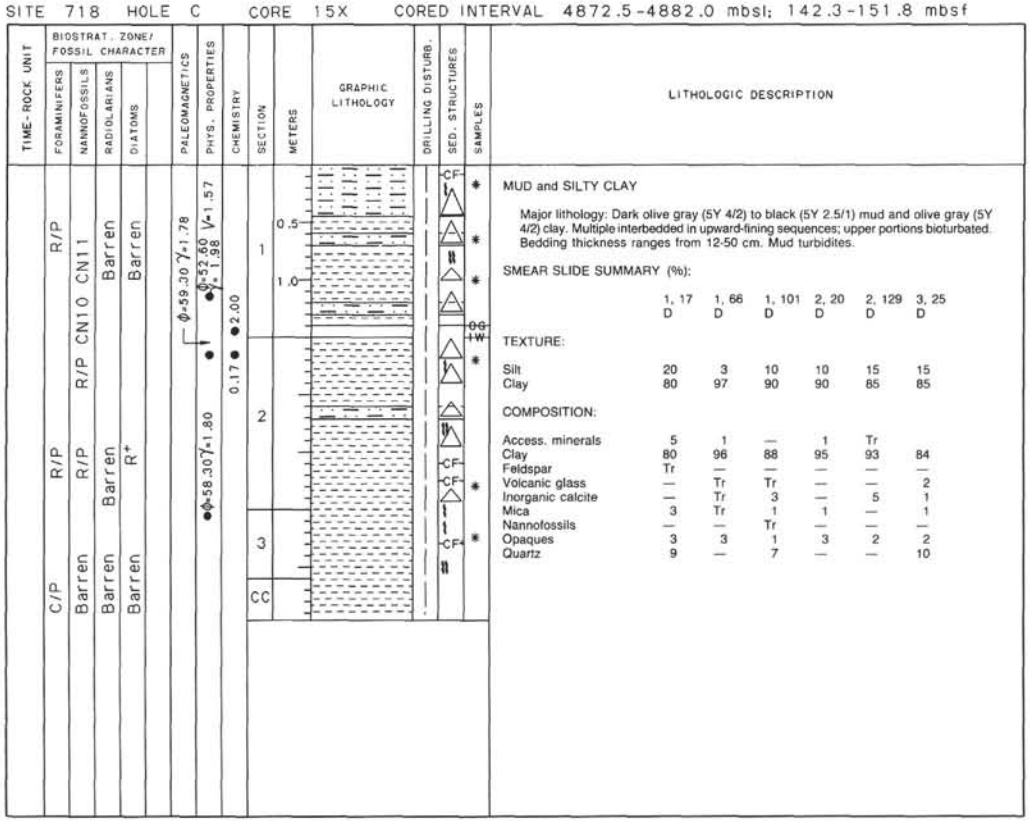
Minor lithology: Silt, forms 2-20-mm-thick layer at base of some beds.

SMEAR SLIDE SUMMARY (%):

	2, 26 D	2, 83 D	4, 74 D
TEXTURE:			
Silt	20	2	2
Clay	80	98	98
COMPOSITION:			
Access. minerals	5	2	—
Calcite/dolomite	5	10	10
Clay	70	88	88
Quartz	20	—	2



SITE 718 HOLE C CORE 15X CORED INTERVAL 4872.5-4882.0 mbsl; 142.3-151.8 mbsf

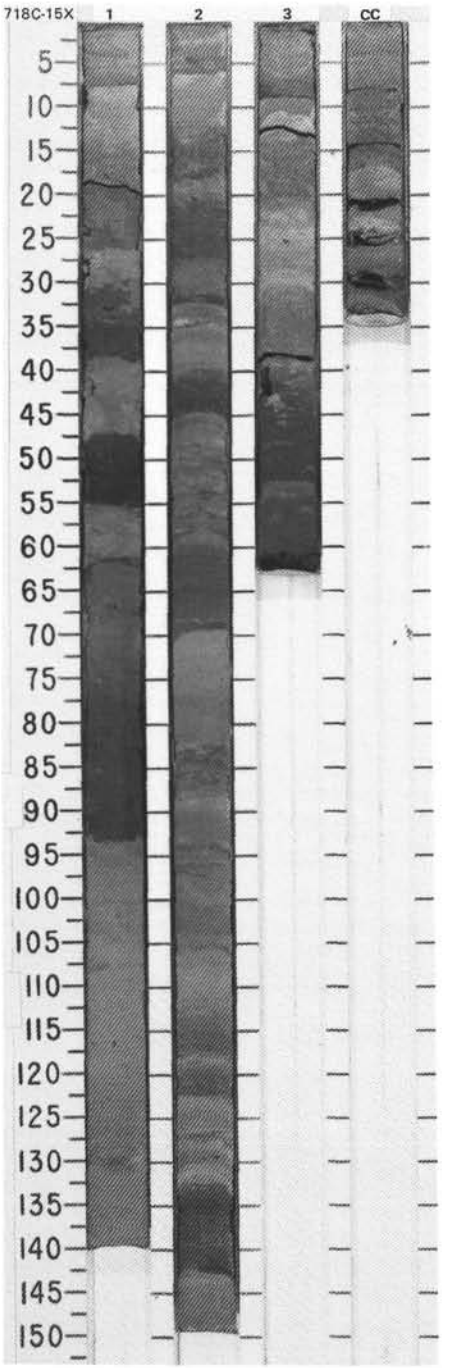


MUD and SILTY CLAY

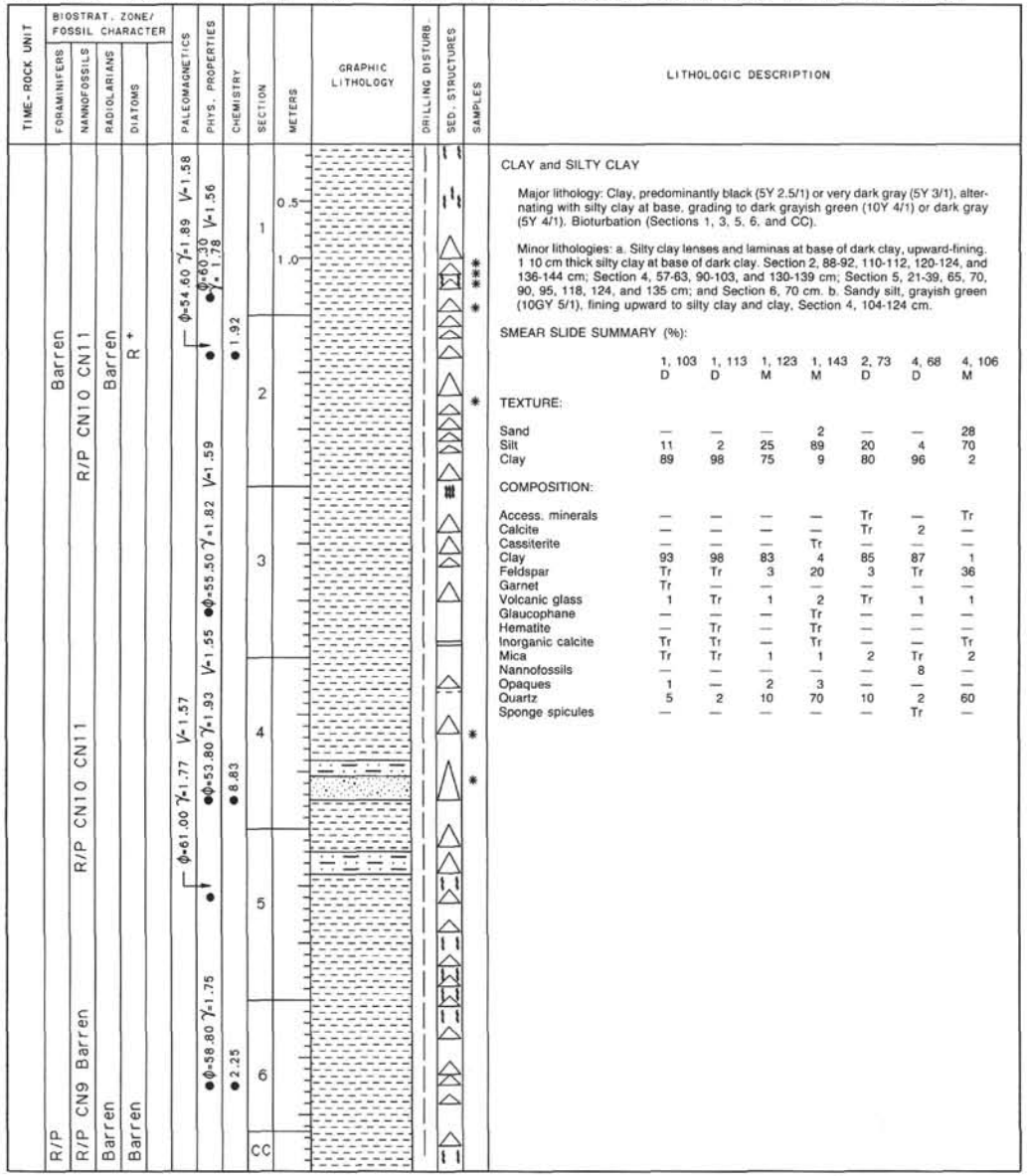
Major lithology: Dark olive gray (5Y 4/2) to black (5Y 2.5/1) mud and olive gray (5Y 4/2) clay. Multiple interbedded in upward-fining sequences; upper portions bioturbated. Bedding thickness ranges from 12-50 cm. Mud turbidites.

SMEAR SLIDE SUMMARY (%):

	1, 17 D	1, 66 D	1, 101 D	2, 20 D	2, 129 D	3, 25 D
TEXTURE:						
Silt	20	3	10	10	15	15
Clay	80	97	90	90	85	85
COMPOSITION:						
Access. minerals	5	1	—	1	Tr	
Clay	80	96	88	95	93	84
Feldspar	Tr	—	—	—	—	—
Volcanic glass	—	Tr	Tr	—	—	2
Inorganic calcite	—	Tr	3	—	5	1
Mica	3	Tr	1	1	—	1
Nannofossils	—	—	Tr	—	—	—
Opaques	3	3	1	3	2	2
Quartz	9	—	7	—	—	10



SITE 718 HOLE C CORE 16X CORED INTERVAL 4882.0-4891.5 mbsl; 151.8-161.3 mbsf



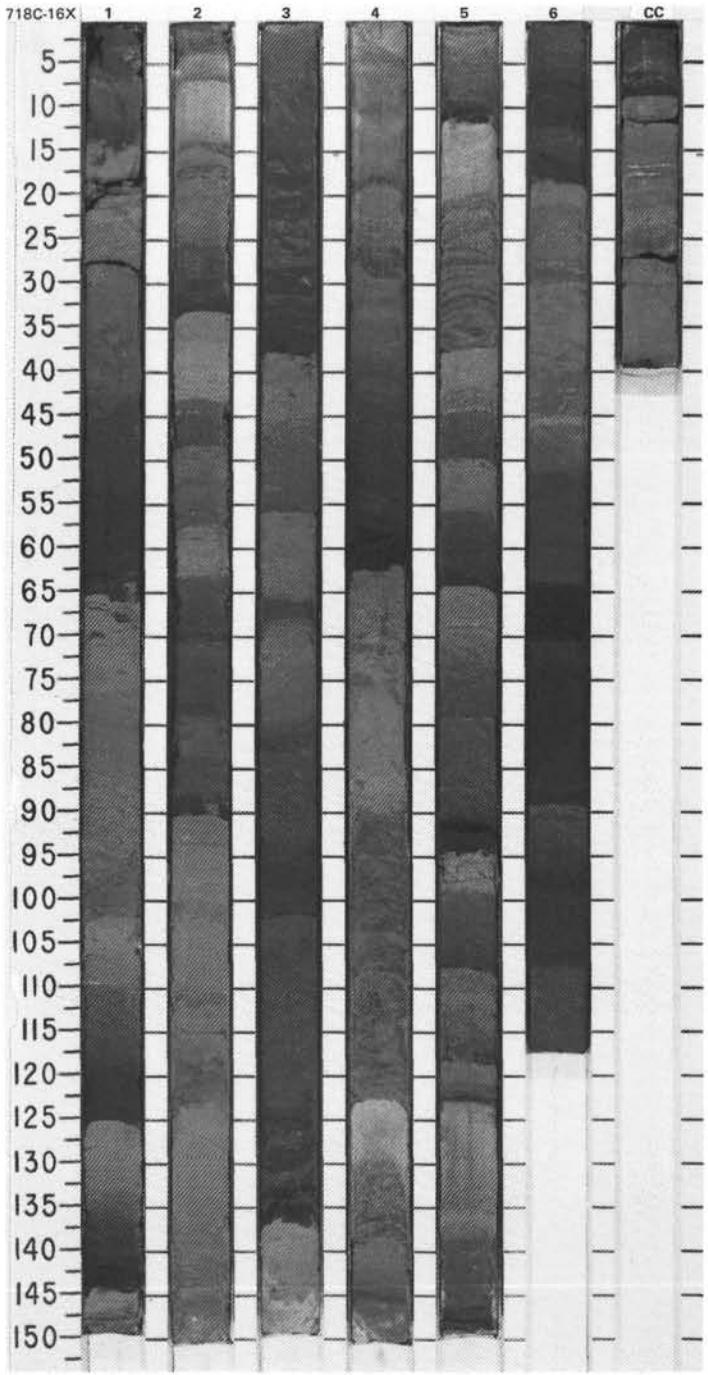
CLAY and SILTY CLAY

Major lithology: Clay, predominantly black (5Y 2.5/1) or very dark gray (5Y 3/1), alternating with silty clay at base, grading to dark grayish green (10Y 4/1) or dark gray (5Y 4/1). Bioturbation (Sections 1, 3, 5, 6, and CC).

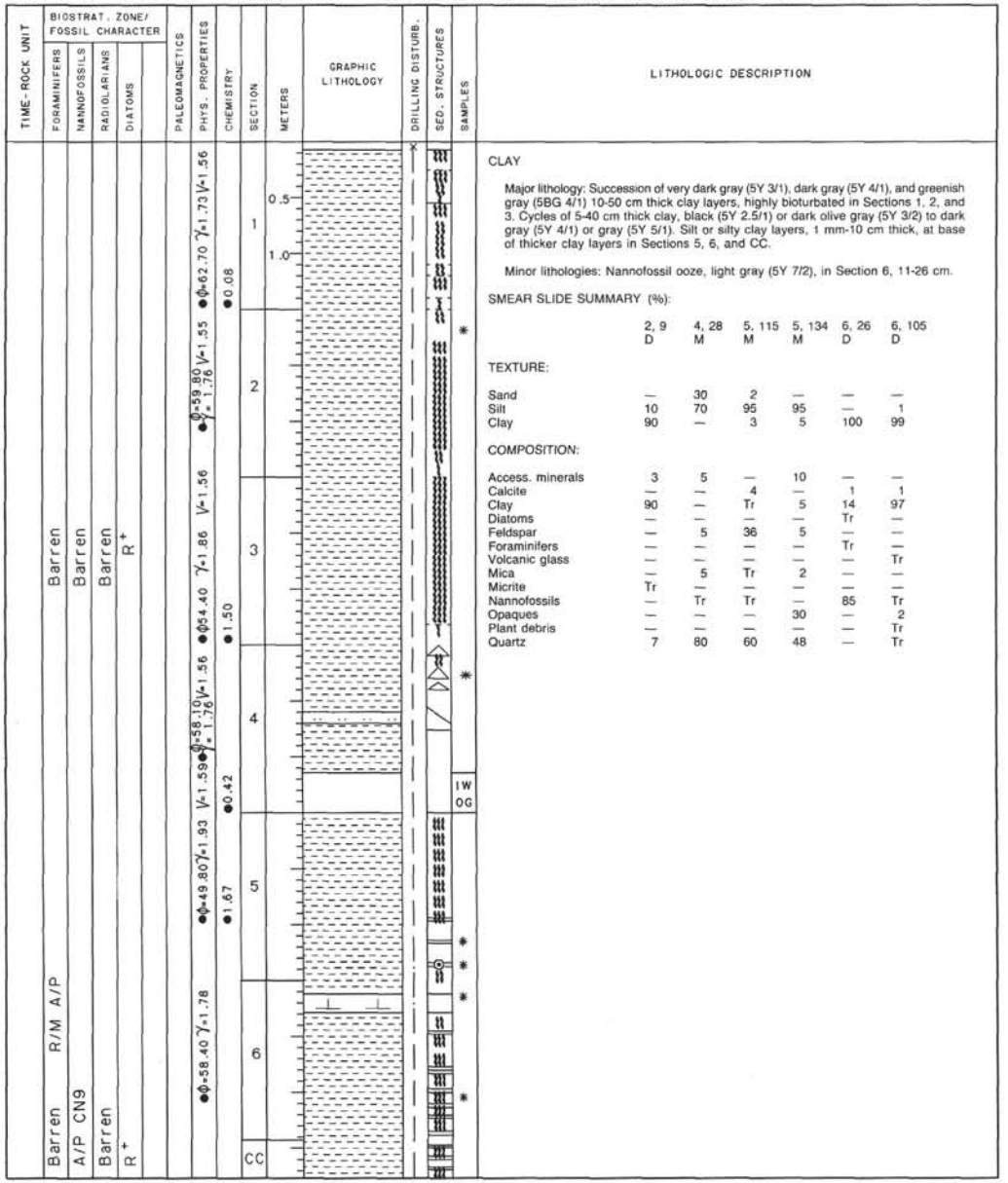
Minor lithologies: a. Silty clay lenses and laminas at base of dark clay, upward-fining. 1 10 cm thick silty clay at base of dark clay. Section 2, 88-92, 110-112, 120-124, and 136-144 cm; Section 4, 57-63, 90-103, and 130-139 cm; Section 5, 21-39, 65, 70, 90, 95, 118, 124, and 135 cm; and Section 6, 70 cm. b. Sandy silt, grayish green (10GY 5/1), fining upward to silty clay and clay, Section 4, 104-124 cm.

SMEAR SLIDE SUMMARY (%):

	1, 103 D	1, 113 D	1, 123 M	1, 143 M	2, 73 D	4, 68 D	4, 106 M
TEXTURE:							
Sand	—	—	—	2	—	—	28
Silt	11	2	25	89	20	4	70
Clay	89	98	75	9	80	96	2
COMPOSITION:							
Access. minerals	—	—	—	—	Tr	—	Tr
Calcite	—	—	—	—	Tr	2	—
Cassiterite	—	—	—	Tr	—	—	—
Clay	93	98	83	4	85	87	1
Feldspar	Tr	Tr	3	20	3	Tr	36
Garnet	Tr	—	—	—	—	—	—
Volcanic glass	1	Tr	1	2	Tr	1	1
Glaucophane	—	—	—	Tr	—	—	—
Hematite	—	Tr	—	Tr	—	—	—
Inorganic calcite	Tr	Tr	—	Tr	—	—	Tr
Mica	Tr	Tr	1	1	2	Tr	2
Nannofossils	—	—	—	—	—	8	—
Opaques	1	—	2	3	—	—	—
Quartz	5	2	10	70	10	2	60
Sponge spicules	—	—	—	—	—	Tr	—



SITE 718 HOLE C CORE 17X CORED INTERVAL 4891.5-4901.0 mbsl; 161.3-170.8 mbsf



LITHOLOGIC DESCRIPTION

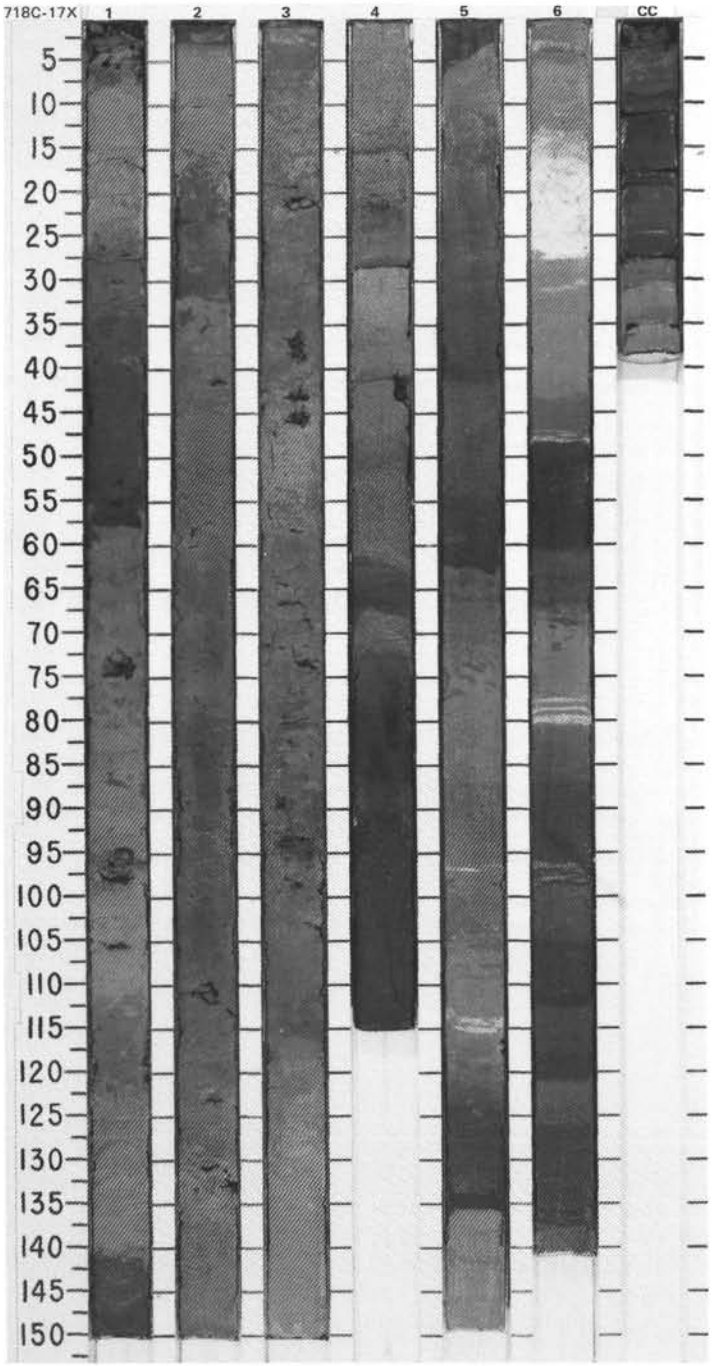
CLAY

Major lithology: Succession of very dark gray (5Y 3/1), dark gray (5Y 4/1), and greenish gray (5BG 4/1) 10-50 cm thick clay layers, highly bioturbated in Sections 1, 2, and 3. Cycles of 5-40 cm thick clay, black (5Y 2.5/1) or dark olive gray (5Y 3/2) to dark gray (5Y 4/1) or gray (5Y 5/1). Silt or silty clay layers, 1 mm-10 cm thick, at base of thicker clay layers in Sections 5, 6, and CC.

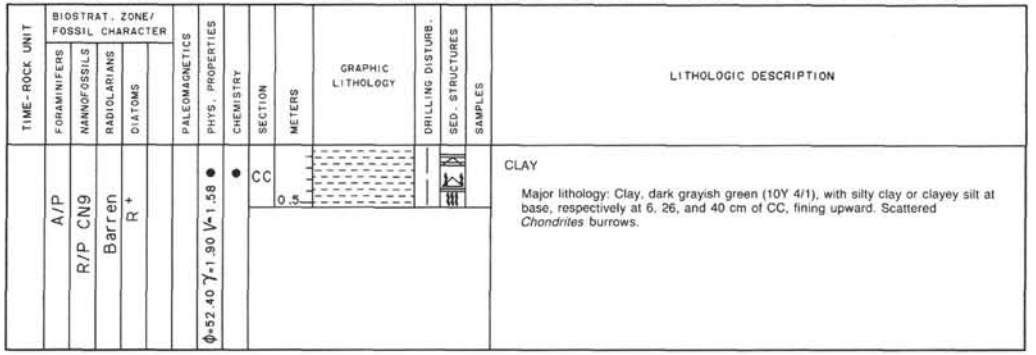
Minor lithologies: Nannofossil ooze, light gray (5Y 7/2), in Section 6, 11-26 cm.

SMEAR SLIDE SUMMARY (%):

	2, 9 D	4, 28 M	5, 115 M	5, 134 M	6, 26 D	6, 105 D
TEXTURE:						
Sand	—	30	2	—	—	—
Silt	10	70	95	95	—	1
Clay	90	—	3	5	100	99
COMPOSITION:						
Access. minerals	3	5	—	10	—	—
Calcite	—	—	4	—	1	1
Clay	90	—	Tr	5	14	97
Diatoms	—	—	—	—	Tr	—
Feldspar	—	5	36	5	—	—
Foraminifers	—	—	—	—	Tr	—
Volcanic glass	—	—	—	—	—	Tr
Mica	—	5	Tr	2	—	—
Micrite	Tr	—	—	—	—	—
Nannofossils	—	Tr	Tr	—	85	Tr
Opaques	—	—	—	30	—	2
Plant debris	—	—	—	—	—	Tr
Quartz	7	80	60	48	—	Tr



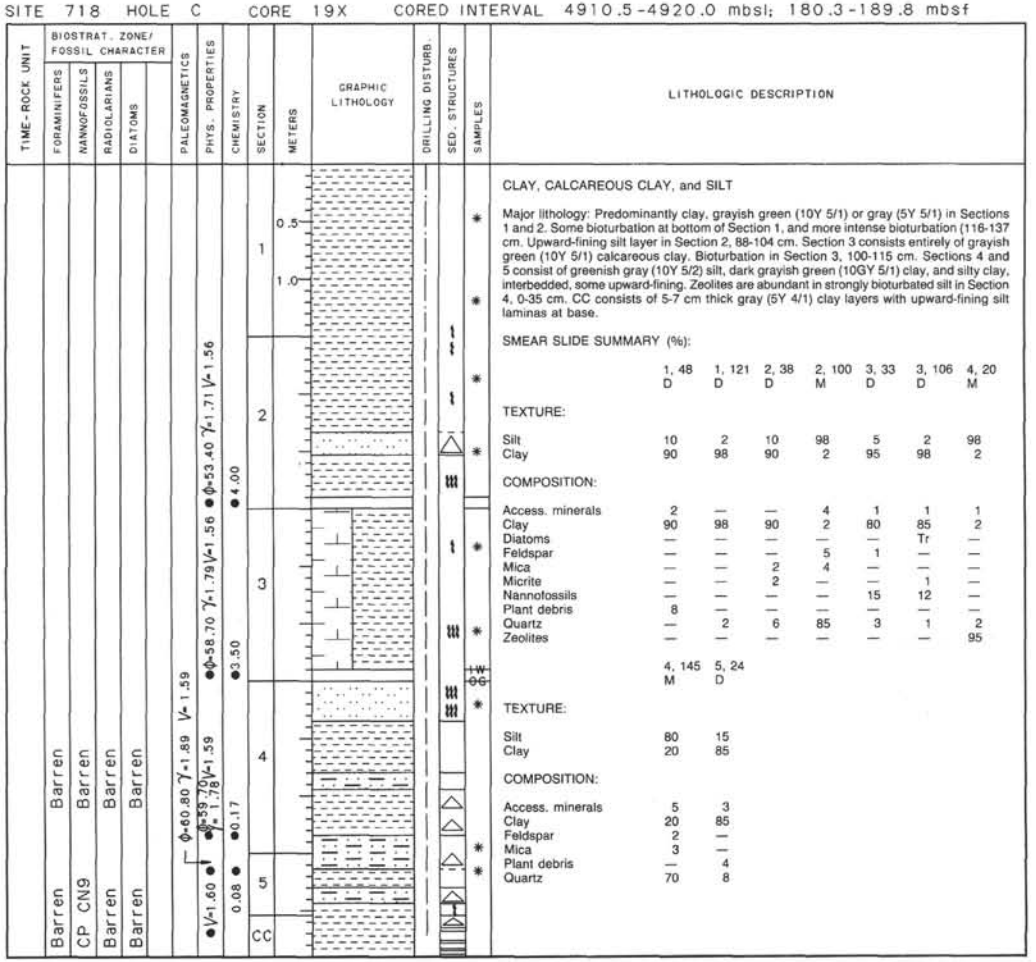
SITE 718 HOLE C CORE 18X CORED INTERVAL 4901.0-4910.5 mbsl; 170.8-180.3 mbsf



CLAY

Major lithology: Clay, dark grayish green (10Y 4/1), with silty clay or clayey silt at base, respectively at 6, 26, and 40 cm of CC, fining upward. Scattered *Chondrites* burrows.

SITE 718 HOLE C CORE 19X CORED INTERVAL 4910.5-4920.0 mbsl; 180.3-189.8 mbsf



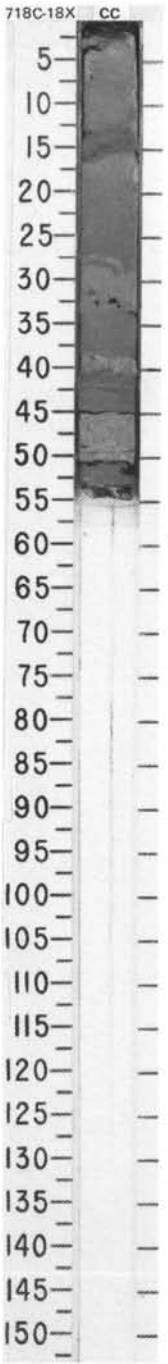
CLAY, CALCAREOUS CLAY, and SILT

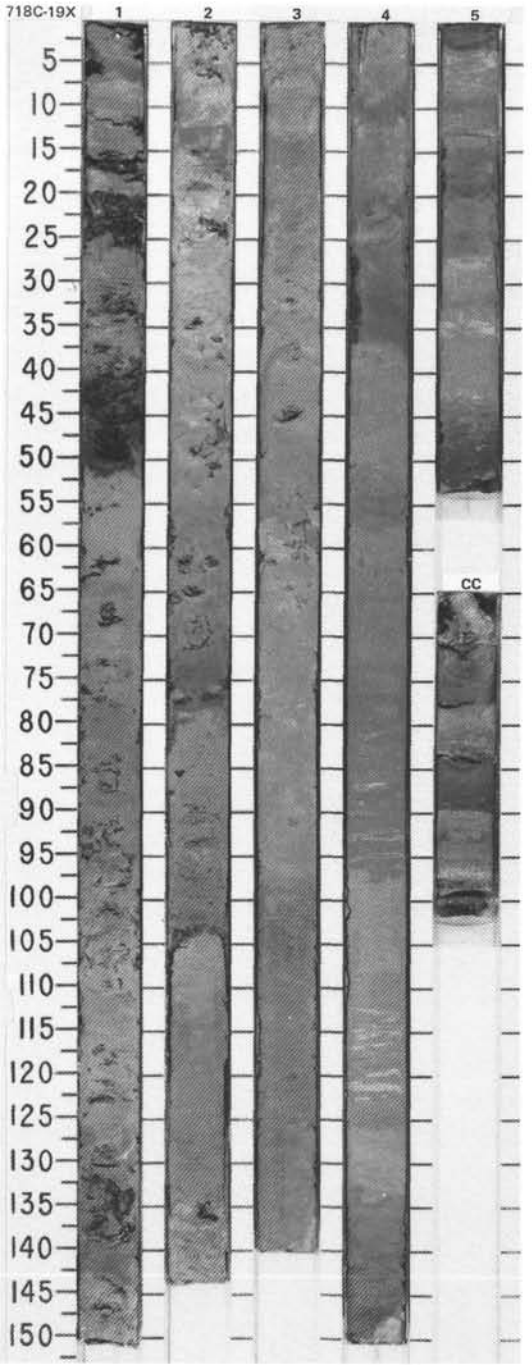
Major lithology: Predominantly clay, grayish green (10Y 5/1) or gray (5Y 5/1) in Sections 1 and 2. Some bioturbation at bottom of Section 1, and more intense bioturbation (116-137 cm. Upward-fining silt layer in Section 2, 88-104 cm. Section 3 consists entirely of grayish green (10Y 5/1) calcareous clay. Bioturbation in Section 3, 100-115 cm. Sections 4 and 5 consist of greenish gray (10Y 5/2) silt, dark grayish green (10GY 5/1) clay, and silty clay, interbedded, some upward-fining. Zeolites are abundant in strongly bioturbated silt in Section 4, 0-35 cm. CC consists of 5-7 cm thick gray (5Y 4/1) clay layers with upward-fining silt laminas at base.

SMEAR SLIDE SUMMARY (%):

	1, 48 D	1, 121 D	2, 38 D	2, 100 M	3, 33 D	3, 106 D	4, 20 M
TEXTURE:							
Silt	10	2	10	98	5	2	98
Clay	90	98	90	2	95	98	2
COMPOSITION:							
Access. minerals	2	—	—	4	1	1	1
Clay	90	98	90	2	80	85	2
Diatoms	—	—	—	—	—	Tr	—
Feldspar	—	—	—	5	1	—	—
Mica	—	—	2	4	—	—	—
Micrite	—	—	2	—	—	1	—
Nannofossils	—	—	—	—	15	12	—
Plant debris	8	—	—	—	—	—	—
Quartz	—	2	6	85	3	1	2
Zeolites	—	—	—	—	—	—	95

	4, 145 M	5, 24 D
TEXTURE:		
Silt	80	15
Clay	20	85
COMPOSITION:		
Access. minerals	5	3
Clay	20	85
Feldspar	2	—
Mica	3	—
Plant debris	—	4
Quartz	70	8





SITE 718 HOLE C CORE 20X CORED INTERVAL 4920.0-4929.5 mbsl; 189.8-199.3 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
	Barren	Barren	Barren	Barren	γ=1.57	●		1	0.5				*
													*
													*
									1.0			CF	
					φ=53.50 γ=1.94	γ=1.53							IW OG
													*
	Barren	Barren	Barren	Barren	φ=52.20 γ=1.94		●2.25	2					*
								CC					

LITHOLOGIC DESCRIPTION

CLAY and SILTY CLAY

Major lithology: Grayish green (10GY 5/1), very dark gray (5Y 3/1), and gray (5Y 5/1) clay and silty clay; regularly interbedded with very thin to thin (1-10 cm thick) silty clay or clayey silt beds which grade upward to clay. Strong to slight bioturbation (dominantly *Chondrites*) concentrated in upper portion of clay. Mud turbidites.

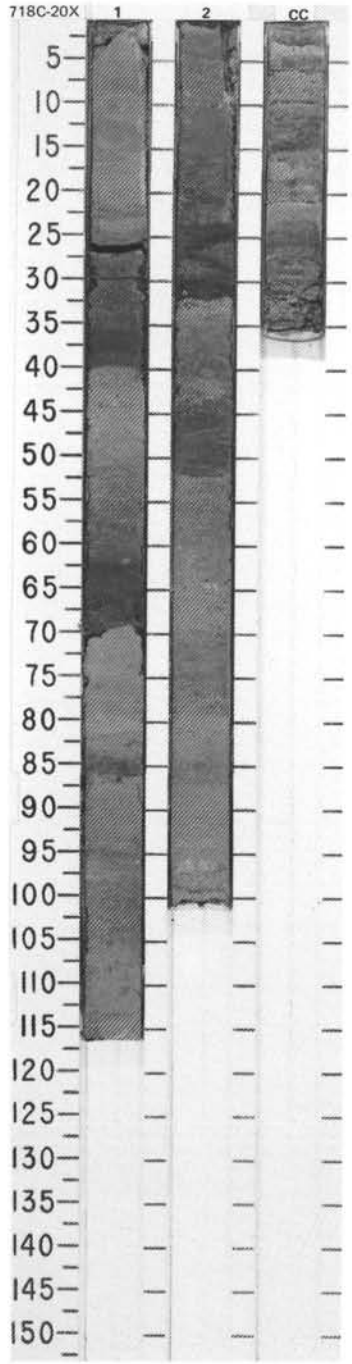
SMEAR SLIDE SUMMARY (%):

	1, 29 D	1, 55 D	1, 68 D	2, 9 D	2, 64 D
TEXTURE:					
Sand	—	—	20	—	—
Silt	2	6	70	20	30
Clay	98	94	10	80	70
COMPOSITION:					
Access. minerals	Tr	Tr	1	5	4
Calcite/dolomite	—	—	—	—	1
Clay	99	92	—	80	45
Diatoms	Tr	—	—	—	—
Feldspar	—	—	Tr	—	—
Inorganic calcite	—	Tr	—	—	—
Mica	Tr	Tr	—	—	—
Nannofossils	—	2	—	—	—
Opaques	1	1	7	—	—
Quartz	—	5	92	15	50

CORE 116–718C–21X–NO RECOVERY

CORE 116–718C–22X–NO RECOVERY

CORE 116–718C–23X–NO RECOVERY



SITE 718 HOLE C CORE 24X CORED INTERVAL 4958.0-4967.5 mbsl; 227.8-237.3 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
	F/M	A/P CN9	Barren	R+				CC						CLAY Major lithology: Gray (5Y 5/1) clay.

SITE 718 HOLE C CORE 25X CORED INTERVAL 4967.5-4977.0 mbsl; 237.3-246.8 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	C/M	Barren A/P CN9	Barren	Barren	φ=46.90 γ=2.01 V=1.59 φ=56.50 γ=1.87 V=1.62		1.25 1.42	1 2 CC	0.5 1.0				* * IW OG * *	CLAY and SILTY CLAY Major lithology: Gray (5Y 5/1) to very dark gray (5Y 3/1) clay and silty clay, interbedded, forms upward-fining sequences. 5 mm to 10 cm thick clayey silt to silty clay beds form base and grade up to clay. Clay generally bioturbated in 5-10 cm intervals above silty intervals. Mud turbidites.

SMEAR SLIDE SUMMARY (%):

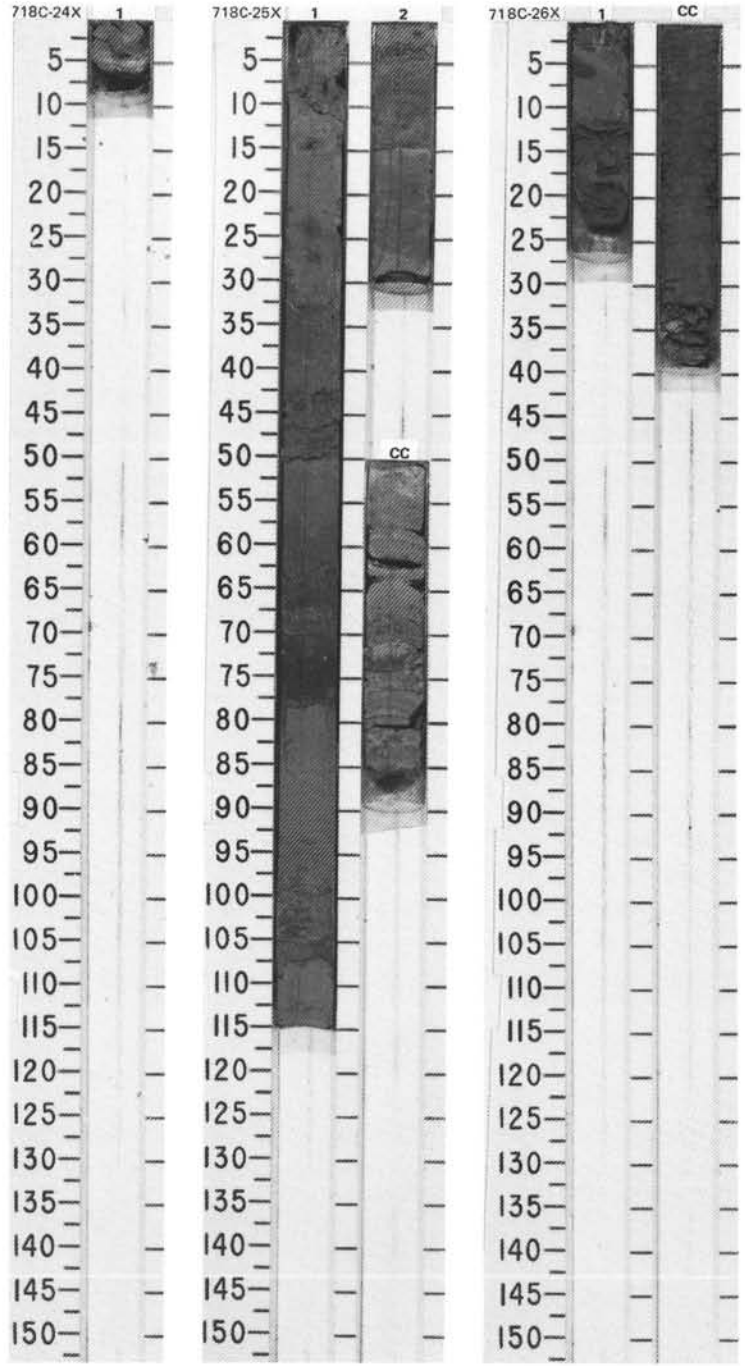
	1, 33 D	1, 73 D	2, 20 D	CC, 2 D
TEXTURE:				
Silt	—	5	3	8
Clay	100	95	97	92
COMPOSITION:				
Access. minerals	—	1	1	1
Clay	95	95	97	74
Inorganic calcite	5	4	2	5
Nannofossils	—	—	—	15
Quartz	—	Tr	Tr	5

SITE 718 HOLE C CORE 26X CORED INTERVAL 4977.0-4986.5 mbsl; 246.8-256.3 mbsf

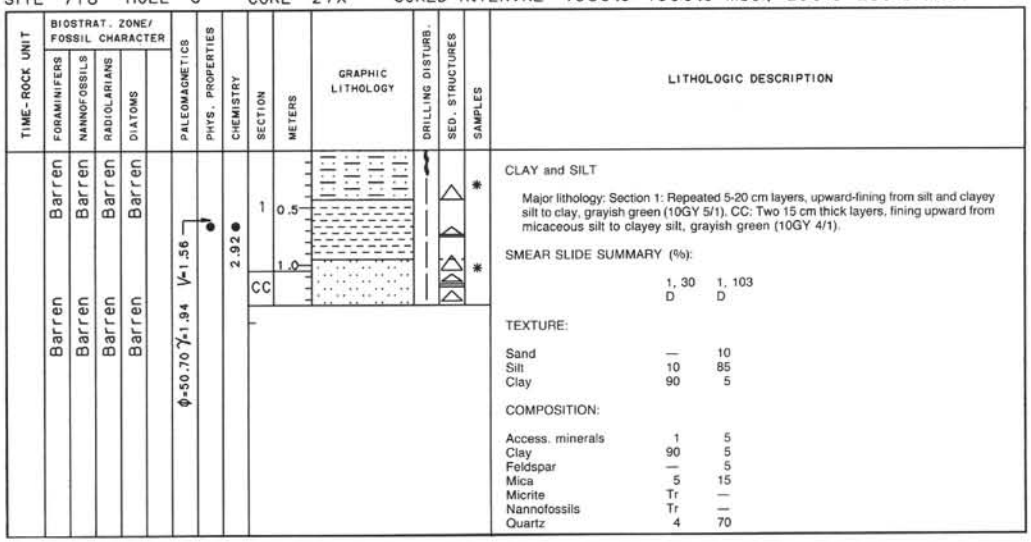
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	Barren	F/PP CN9	Barren	Barren				1 CC	0.5				* *	CLAY and CLAYEY SILT Major lithology: Two 10 cm thick upward-fining layers, grading from clayey silt to clay, light grayish green (10GY 4/1), in Section 1. Light grayish green (10GY 4/1) micaceous clayey silt in CC.

SMEAR SLIDE SUMMARY (%):

	1, 8 D	CC, 14 M
TEXTURE:		
Silt	5	60
Clay	95	40
COMPOSITION:		
Access. minerals	1	1
Clay	95	40
Mica	—	10
Micrite	Tr	1
Nannofossils	Tr	—
Quartz	4	48



SITE 718 HOLE C CORE 27X CORED INTERVAL 4986.5-4996.0 mbsl; 256.3-265.8 mbsf



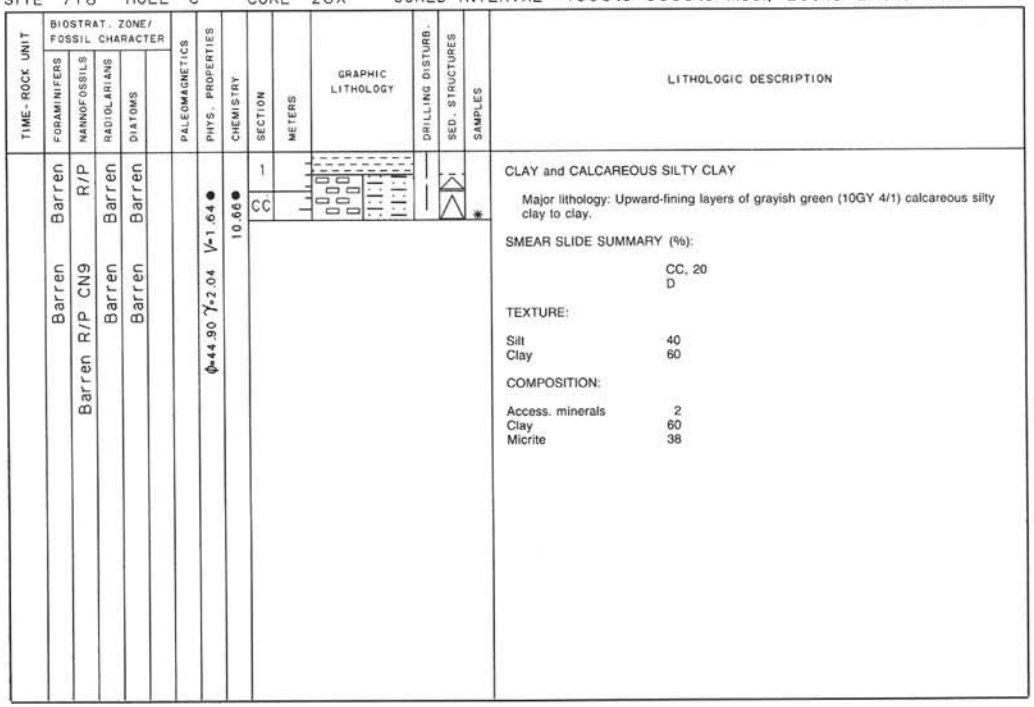
CLAY and SILT

Major lithology: Section 1: Repeated 5-20 cm layers, upward-fining from silt and clayey silt to clay, grayish green (10GY 5/1). CC: Two 15 cm thick layers, fining upward from micaceous silt to clayey silt, grayish green (10GY 4/1).

SMEAR SLIDE SUMMARY (%):

	1, 30 D	1, 103 D
TEXTURE:		
Sand	—	10
Silt	10	85
Clay	90	5
COMPOSITION:		
Access. minerals	1	5
Clay	90	5
Feldspar	—	5
Mica	5	15
Micrite	Tr	—
Nannofossils	Tr	—
Quartz	4	70

SITE 718 HOLE C CORE 28X CORED INTERVAL 4996.0-5005.5 mbsl; 265.8-275.3 mbsf

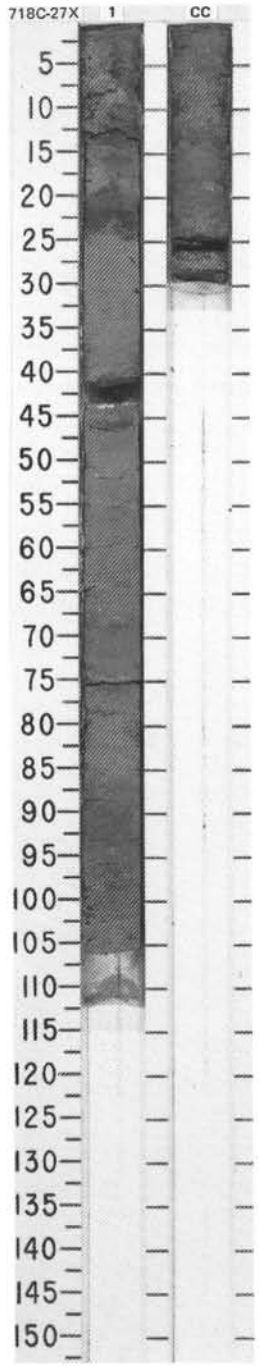


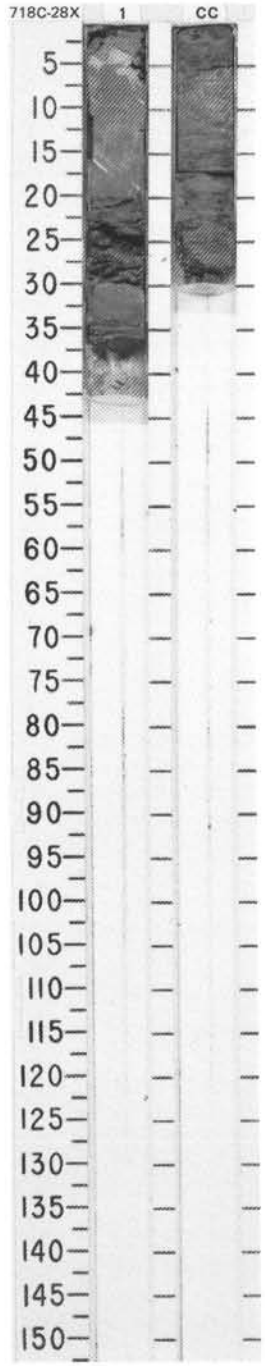
CLAY and CALCAREOUS SILTY CLAY

Major lithology: Upward-fining layers of grayish green (10GY 4/1) calcareous silty clay to clay.

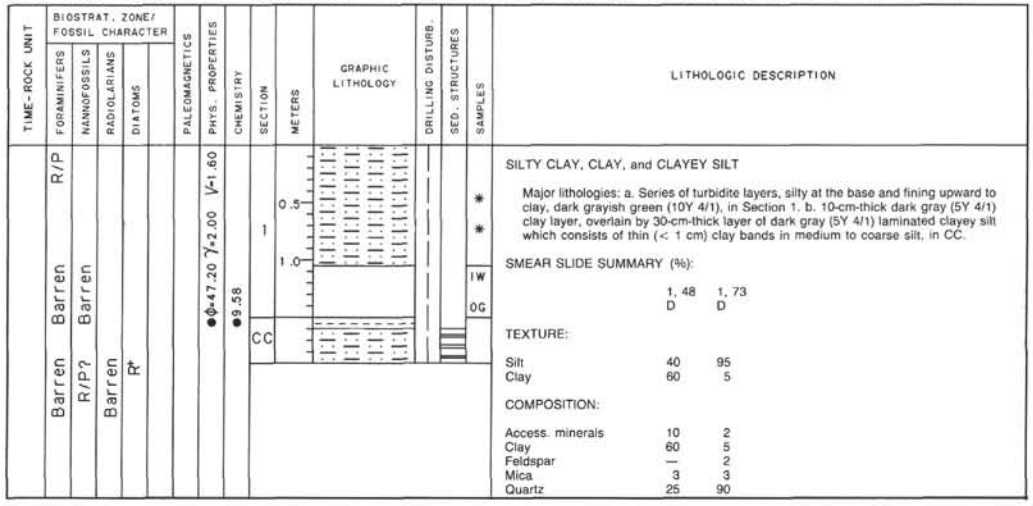
SMEAR SLIDE SUMMARY (%):

	CC, 20 D
TEXTURE:	
Silt	40
Clay	60
COMPOSITION:	
Access. minerals	2
Clay	60
Micrite	38





SITE 718 HOLE C CORE 29X CORED INTERVAL 5005.5-5015.0 mbsl; 275.3-284.8 mbsf



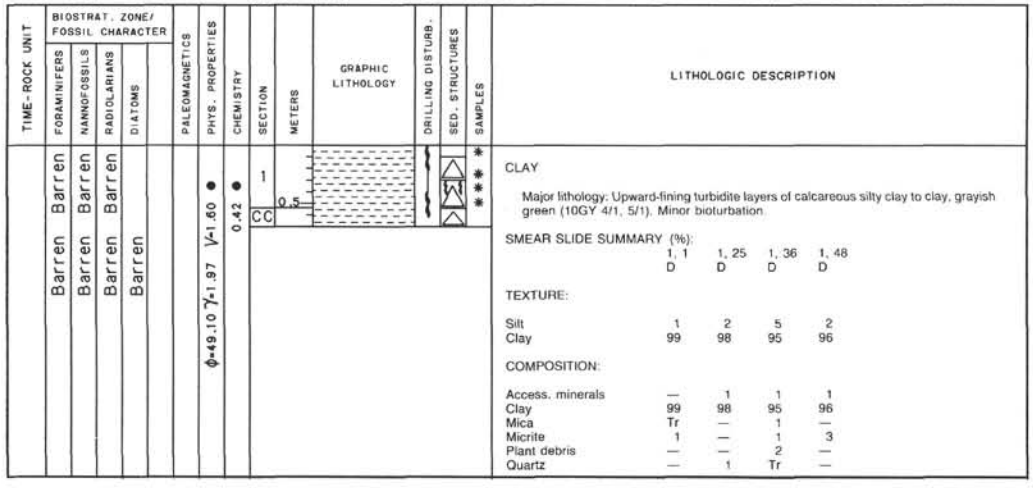
SILTY CLAY, CLAY, and CLAYEY SILT

Major lithologies: a. Series of turbidite layers, silty at the base and fining upward to clay, dark grayish green (10Y 4/1), in Section 1. b. 10-cm-thick dark gray (5Y 4/1) clay layer, overlain by 30-cm-thick layer of dark gray (5Y 4/1) laminated clayey silt which consists of thin (< 1 cm) clay bands in medium to coarse silt, in CC.

SMEAR SLIDE SUMMARY (%):

	1, 48 D	1, 73 D
TEXTURE:		
Silt	40	95
Clay	60	5
COMPOSITION:		
Access. minerals	10	2
Clay	60	5
Feldspar	—	2
Mica	3	3
Quartz	25	90

SITE 718 HOLE C CORE 30X CORED INTERVAL 5015.0-5124.5 mbsl; 284.8-294.3 mbsf



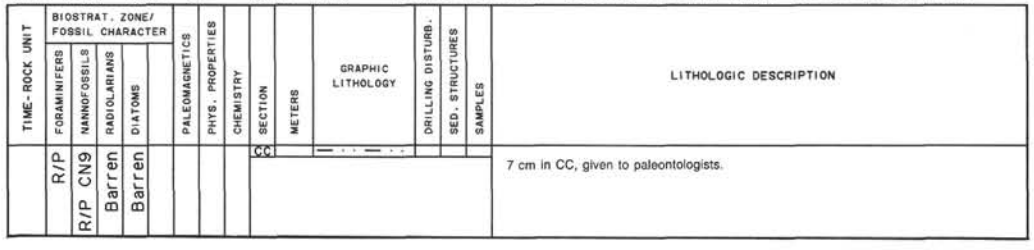
CLAY

Major lithology: Upward-fining turbidite layers of calcareous silty clay to clay, grayish green (10GY 4/1, 5/1). Minor bioturbation.

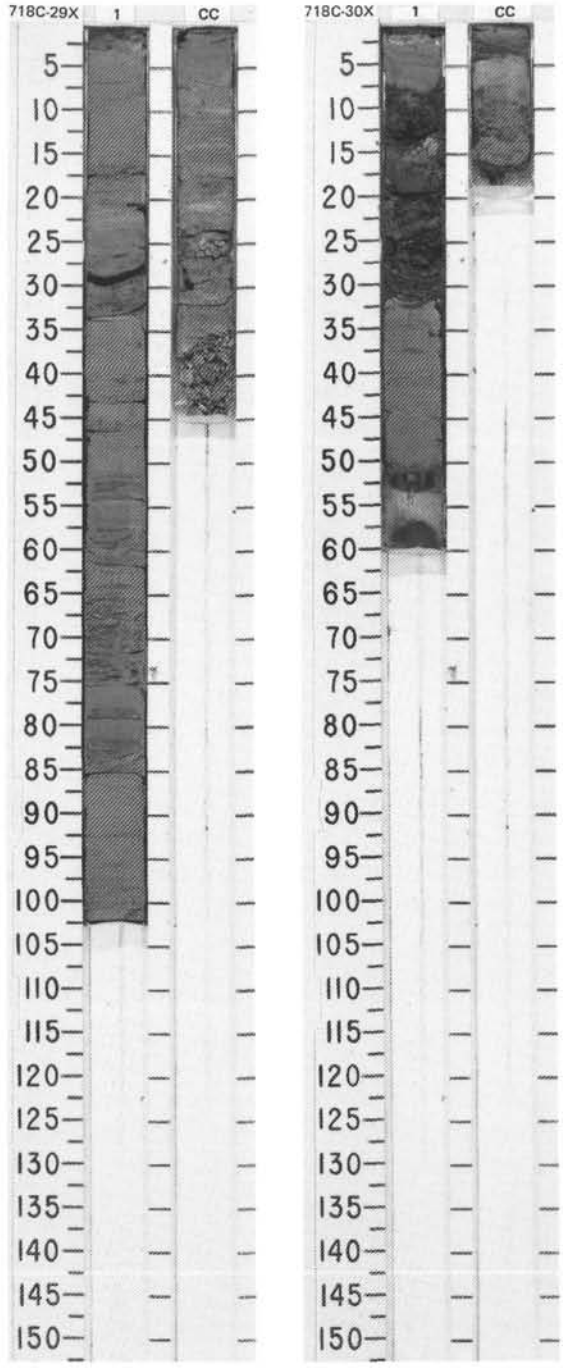
SMEAR SLIDE SUMMARY (%):

	1, 1 D	1, 25 D	1, 36 D	1, 48 D
TEXTURE:				
Silt	1	2	5	2
Clay	99	98	95	96
COMPOSITION:				
Access. minerals	—	1	1	1
Clay	99	98	95	96
Mica	Tr	—	1	—
Micrite	1	—	1	3
Plant debris	—	—	2	—
Quartz	—	1	Tr	—

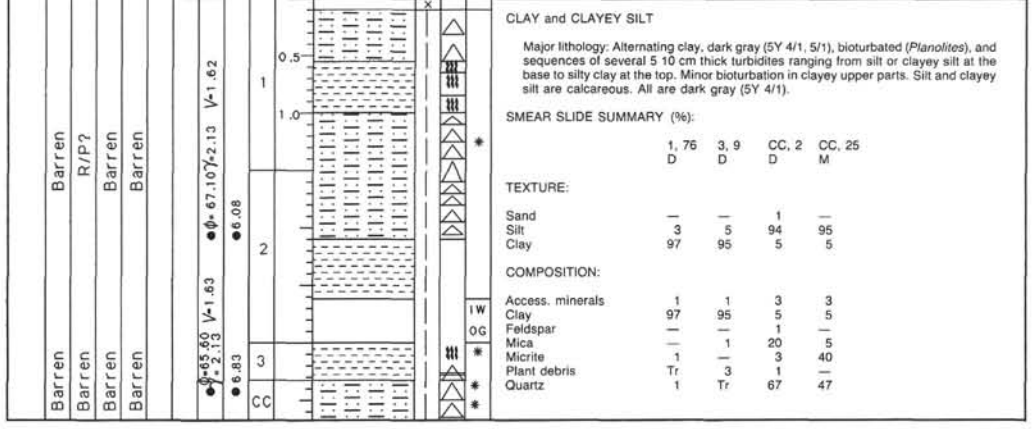
SITE 718 HOLE C CORE 31X CORED INTERVAL 5024.5-5034.0 mbsl; 294.3-303.8 mbsf



7 cm in CC, given to paleontologists.



SITE 718 HOLE C CORE 32X CORED INTERVAL 5034.0-5043.5 mbsl; 303.8-313.3 mbsf



LITHOLOGIC DESCRIPTION

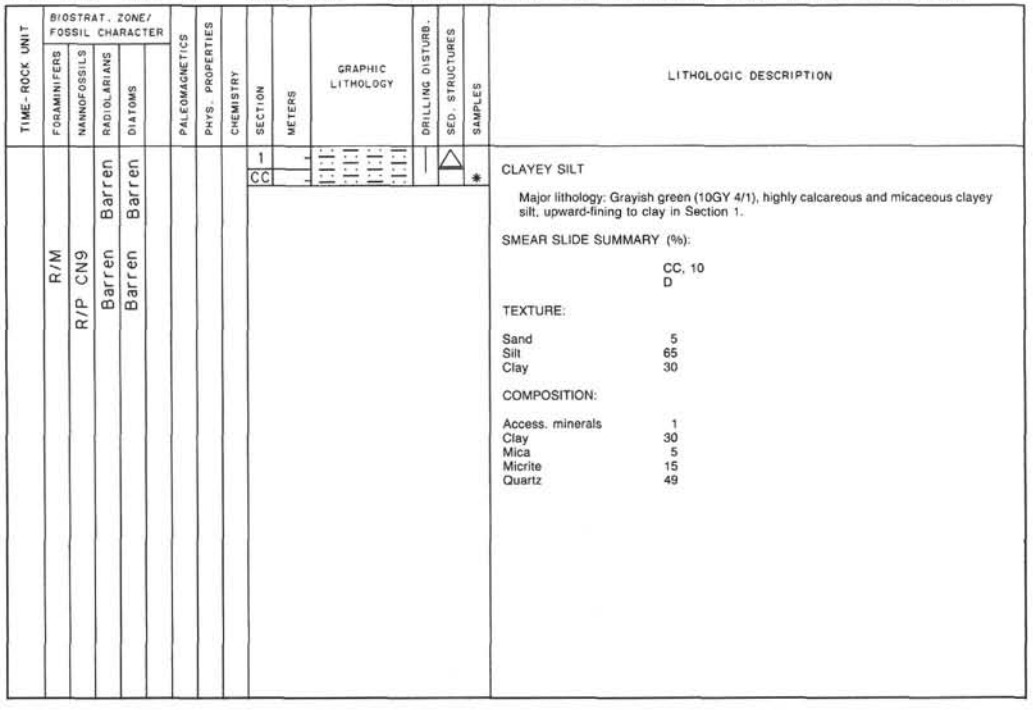
CLAY and CLAYEY SILT

Major lithology: Alternating clay, dark gray (5Y 4/1, 5/1), bioturbated (*Planolites*), and sequences of several 5 10 cm thick turbidites ranging from silt or clayey silt at the base to silty clay at the top. Minor bioturbation in clayey upper parts. Silt and clayey silt are calcareous. All are dark gray (5Y 4/1).

SMEAR SLIDE SUMMARY (%):

	1, 76 D	3, 9 D	CC, 2 D	CC, 25 M
TEXTURE:				
Sand	—	—	1	—
Silt	3	5	94	95
Clay	97	95	5	5
COMPOSITION:				
Access. minerals	1	1	3	3
Clay	97	95	5	5
Feldspar	—	—	1	—
Mica	—	1	20	5
Micrite	1	—	3	40
Plant debris	Tr	3	1	—
Quartz	1	Tr	67	47

SITE 718 HOLE C CORE 33X CORED INTERVAL 5043.5-5053.0 mbsl; 313.3-322.8 mbsf



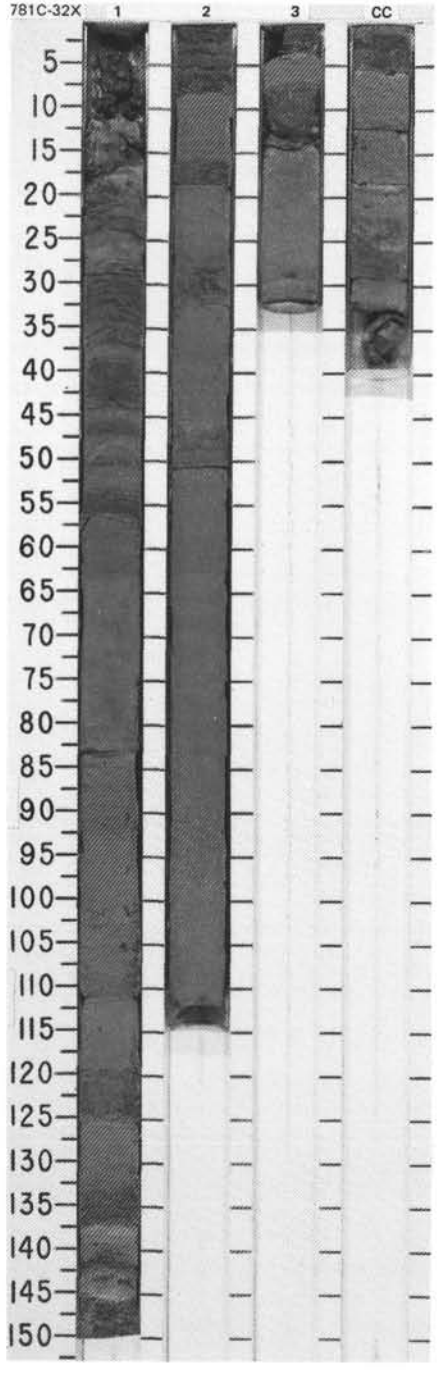
LITHOLOGIC DESCRIPTION

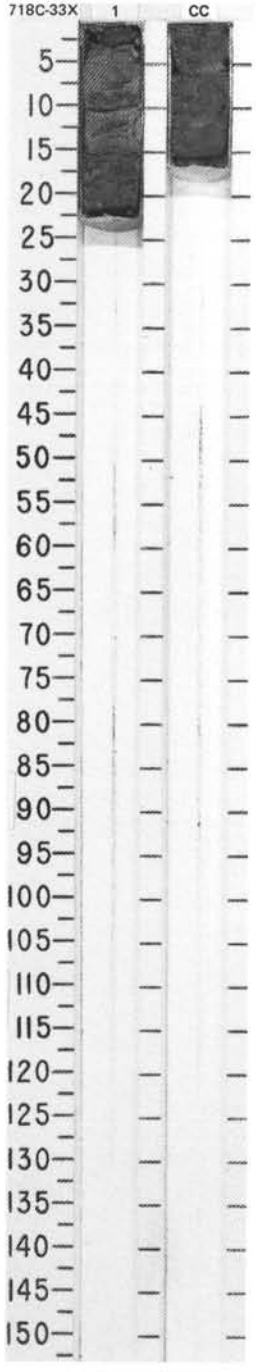
CLAYEY SILT

Major lithology: Grayish green (10GY 4/1), highly calcareous and micaceous clayey silt, upward-fining to clay in Section 1.

SMEAR SLIDE SUMMARY (%):

	CC, 10 D
TEXTURE:	
Sand	5
Silt	65
Clay	30
COMPOSITION:	
Access. minerals	1
Clay	30
Mica	5
Micrite	15
Quartz	49

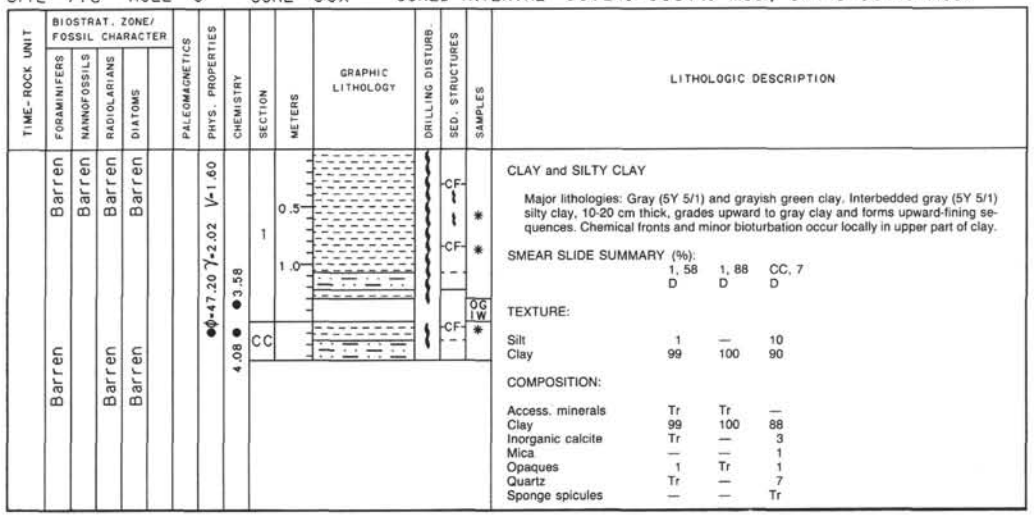




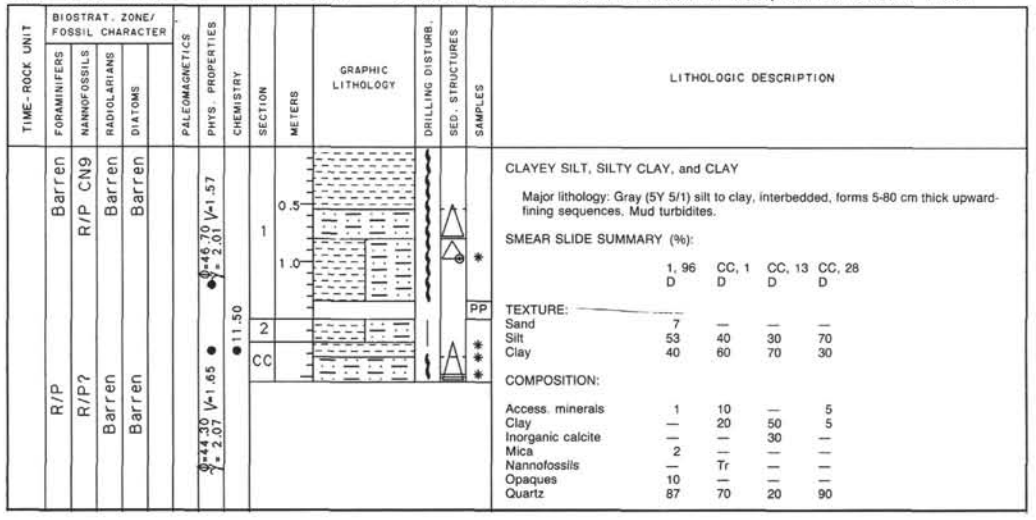
CORE 116–718C–34X–NO RECOVERY

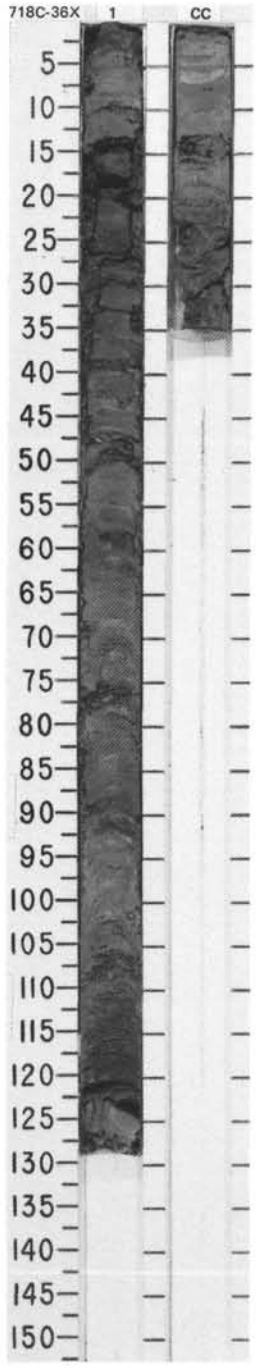
CORE 116–718C–35X–NO RECOVERY

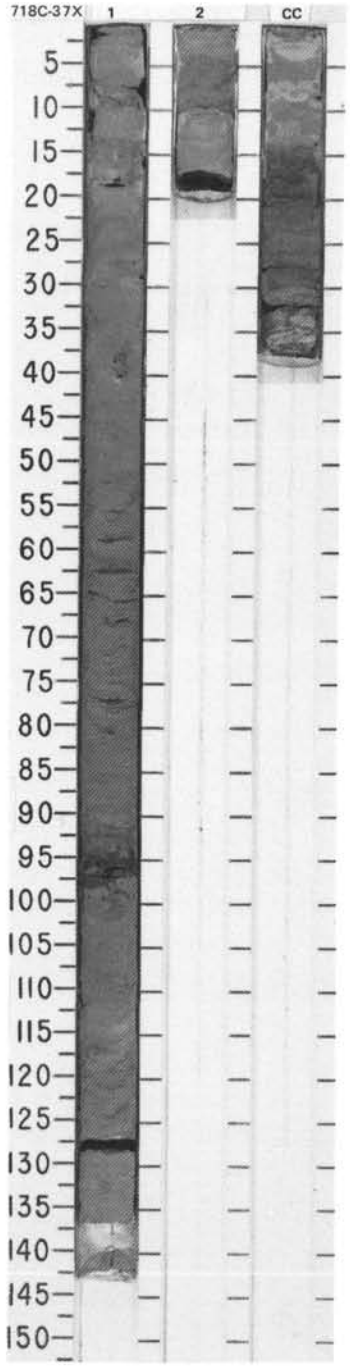
SITE 718 HOLE C CORE 36X CORED INTERVAL 5072.0-5081.5 mbsl; 341.8-351.3 mbsf



SITE 718 HOLE C CORE 37X CORED INTERVAL 5081.5-5091.0 mbsl; 351.3-360.8 mbsf







SITE 718 HOLE C CORE 38X CORED INTERVAL 5091.0-5100.5 mbsl; 360.8-370.3 mbsf

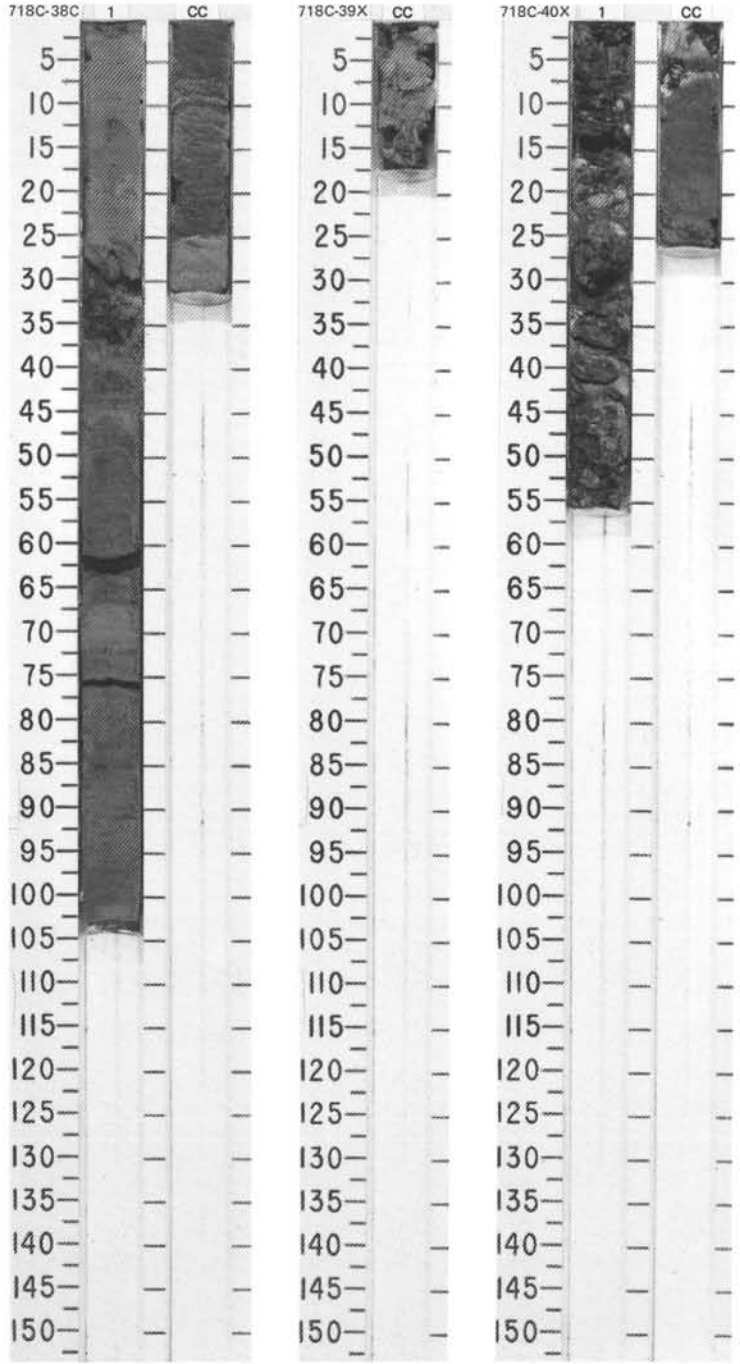
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	Barren	R/P?	Barren	Barren		ϕ=44.50 γ=2.06	V=1.63 ● 11.66 ●	1	0.5					SILT and SILTY CLAY Major lithology: Gray (5Y 4/1) silt and silty clay, interbedded, forms upward-fining sequences 20-40 cm thick. Mud turbidites.
	Barren	R/P? CN8	Barren	Barren				CC	1.0					

SITE 718 HOLE C CORE 39X CORED INTERVAL 5100.5-5110.0 mbsl; 370.3-379.8 mbsf

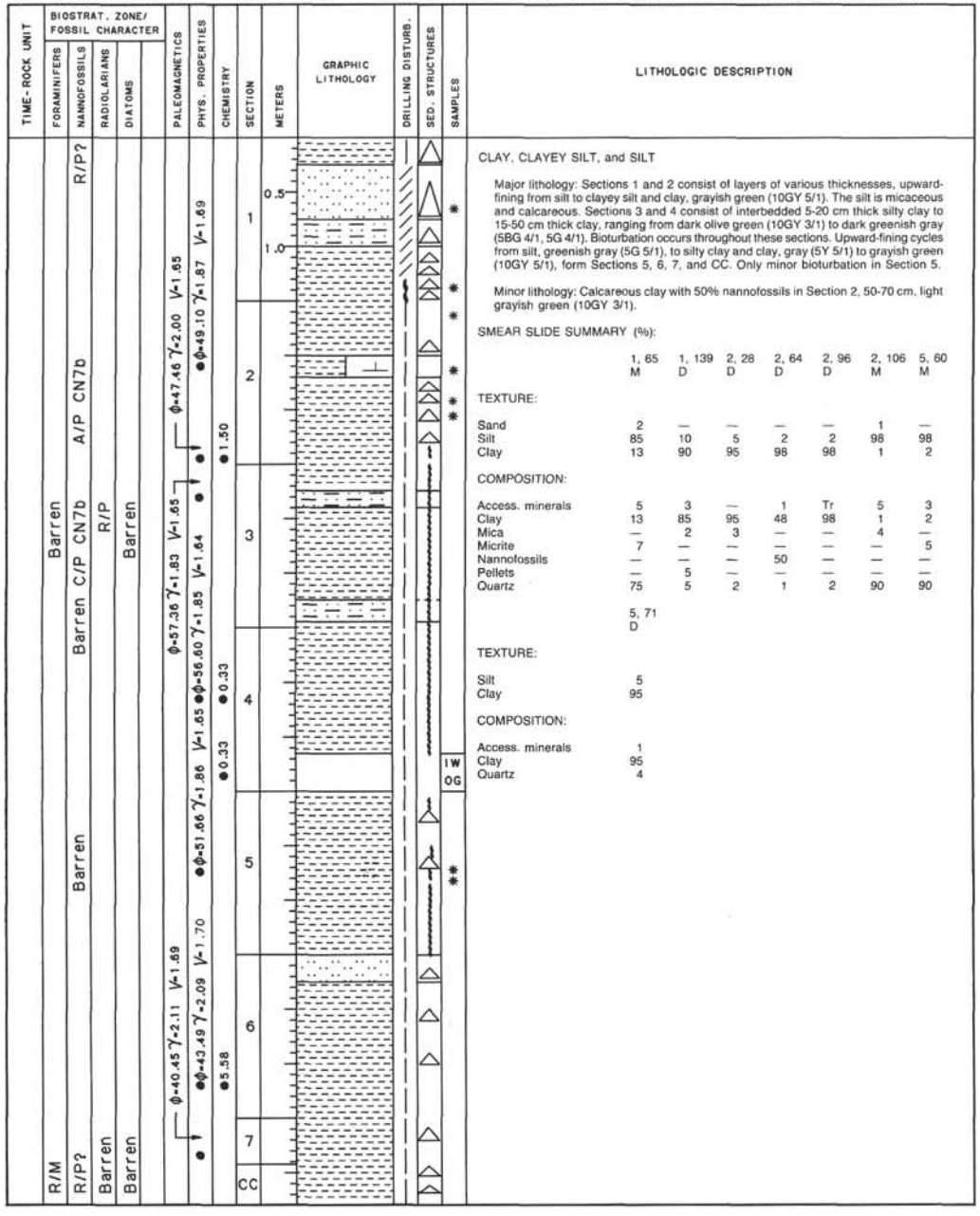
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	F/P	R/P CN8	Barren	Barren				CC						CLAY Major lithology: Gray (5Y 5/1) clay.

SITE 718 HOLE C CORE 40X CORED INTERVAL 5110.0-5119.5 mbsl; 379.8-389.3 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
	Barren	Barren	Barren	Barren				1	0.5					CLAY and CLAYEY SILT Drilling disturbance severe. Major lithology: Gray (5Y 5/1) to olive gray (5Y 4/2) clay.
								CC						



SITE 718 HOLE C CORE 41X CORED INTERVAL 5119.5-5129.0 mbsl; 389.3-398.8 mbsf



LITHOLOGIC DESCRIPTION

CLAY, CLAYEY SILT, and SILT

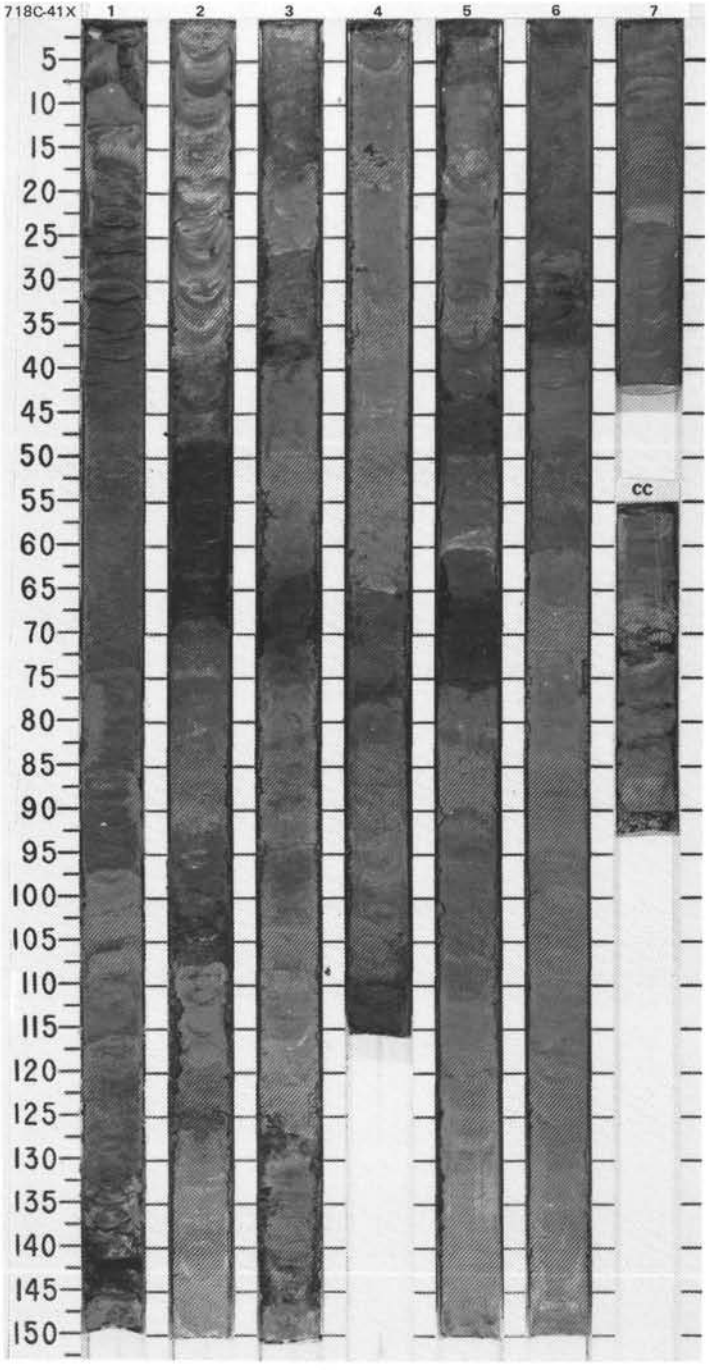
Major lithology: Sections 1 and 2 consist of layers of various thicknesses, upward-fining from silt to clayey silt and clay, grayish green (10GY 5/1). The silt is micaceous and calcareous. Sections 3 and 4 consist of interbedded 5-20 cm thick silty clay to 15-50 cm thick clay, ranging from dark olive green (10GY 3/1) to dark greenish gray (5BG 4/1, 5G 4/1). Bioturbation occurs throughout these sections. Upward-fining cycles from silt, greenish gray (5G 5/1), to silty clay and clay, gray (5Y 5/1) to grayish green (10GY 5/1), form Sections 5, 6, 7, and CC. Only minor bioturbation in Section 5.

Minor lithology: Calcareous clay with 50% nannofossils in Section 2, 50-70 cm, light grayish green (10GY 3/1).

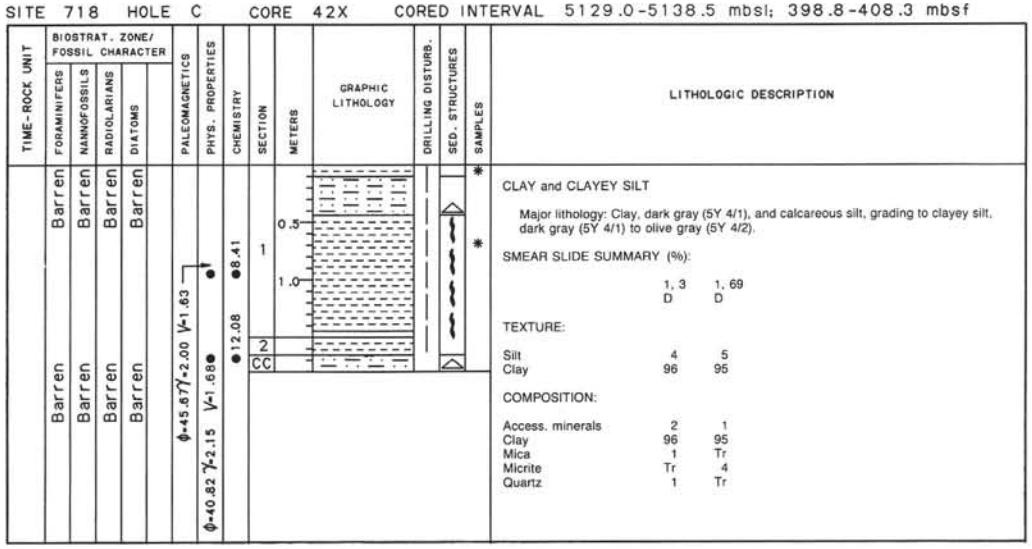
SMEAR SLIDE SUMMARY (%):

	1, 65 M	1, 139 D	2, 28 D	2, 64 D	2, 96 D	2, 106 M	5, 60 M
TEXTURE:							
Sand	2	—	—	—	—	1	—
Silt	85	10	5	2	2	98	98
Clay	13	90	95	98	98	1	2
COMPOSITION:							
Access. minerals	5	3	—	1	Tr	5	3
Clay	13	85	95	48	98	1	2
Mica	—	2	3	—	—	4	—
Micrite	7	—	—	—	—	—	5
Nannofossils	—	—	—	50	—	—	—
Pellets	—	5	—	—	—	—	—
Quartz	75	5	2	1	2	90	90

	5, 71 D
TEXTURE:	
Silt	5
Clay	95
COMPOSITION:	
Access. minerals	1
Clay	95
Quartz	4



SITE 718 HOLE C CORE 42X CORED INTERVAL 5129.0-5138.5 mbsl; 398.8-408.3 mbsf



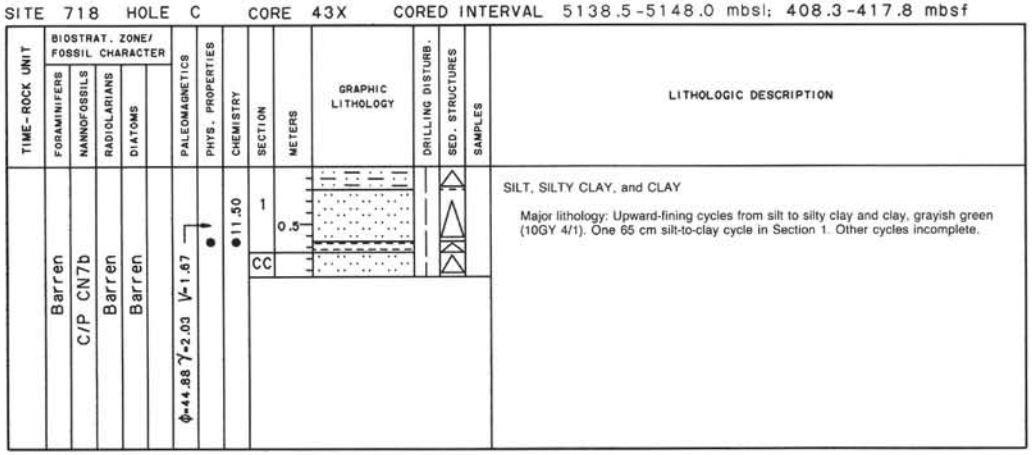
CLAY and CLAYEY SILT

Major lithology: Clay, dark gray (5Y 4/1), and calcareous silt, grading to clayey silt, dark gray (5Y 4/1) to olive gray (5Y 4/2).

SMEAR SLIDE SUMMARY (%):

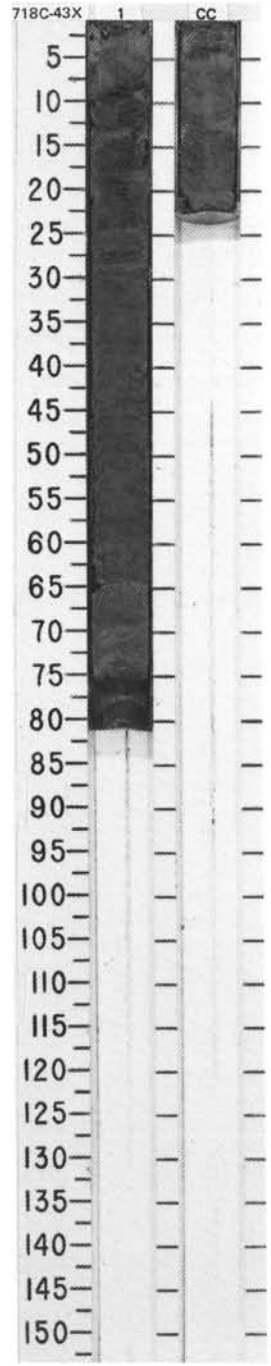
	1, 3 D	1, 69 D
TEXTURE:		
Silt	4	5
Clay	96	95
COMPOSITION:		
Access. minerals	2	1
Clay	96	95
Mica	1	Tr
Micrite	Tr	4
Quartz	1	Tr

SITE 718 HOLE C CORE 43X CORED INTERVAL 5138.5-5148.0 mbsl; 408.3-417.8 mbsf

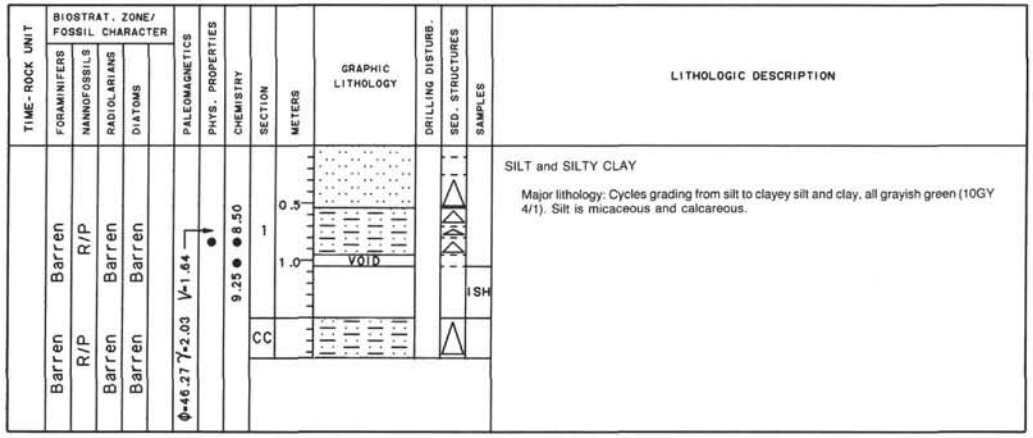


SILT, SILTY CLAY, and CLAY

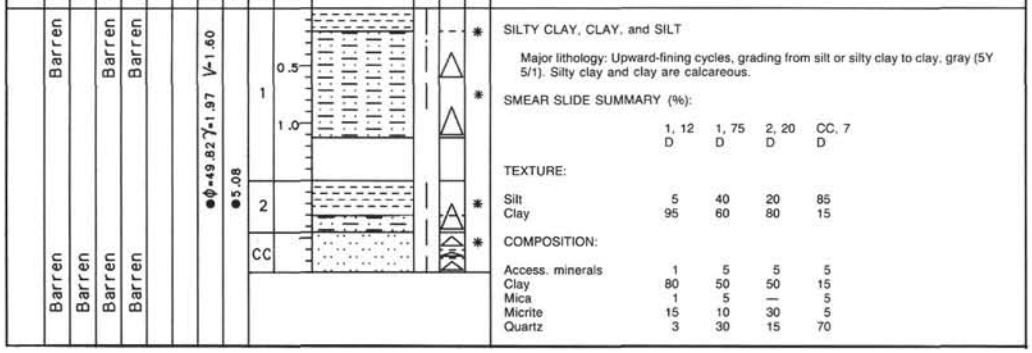
Major lithology: Upward-fining cycles from silt to silty clay and clay, grayish green (10GY 4/1). One 65 cm silt-to-clay cycle in Section 1. Other cycles incomplete.



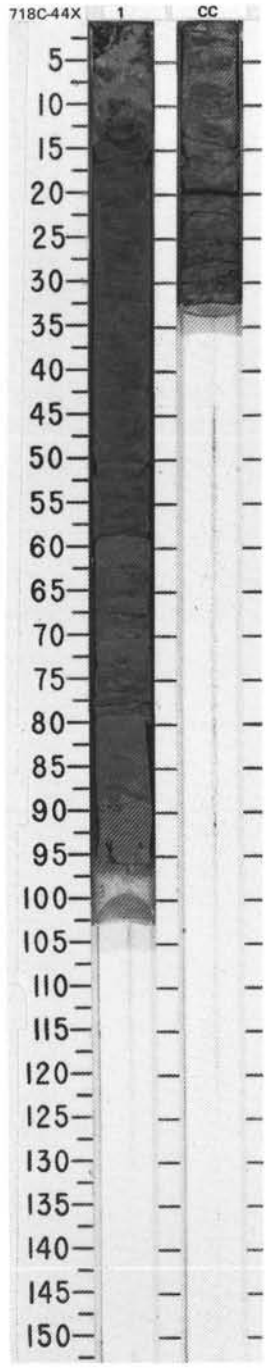
SITE 718 HOLE C CORE 44X CORED INTERVAL 5148.0-5157.5 mbsl; 417.8-427.3 mbsf

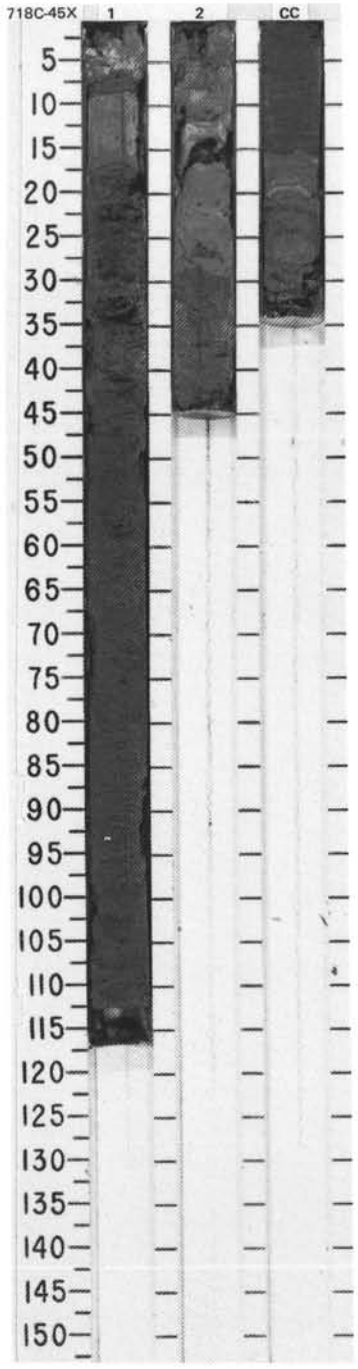


SITE 718 HOLE C CORE 45X CORED INTERVAL 5157.5-5167.0 mbsl; 427.3-436.8 mbsf

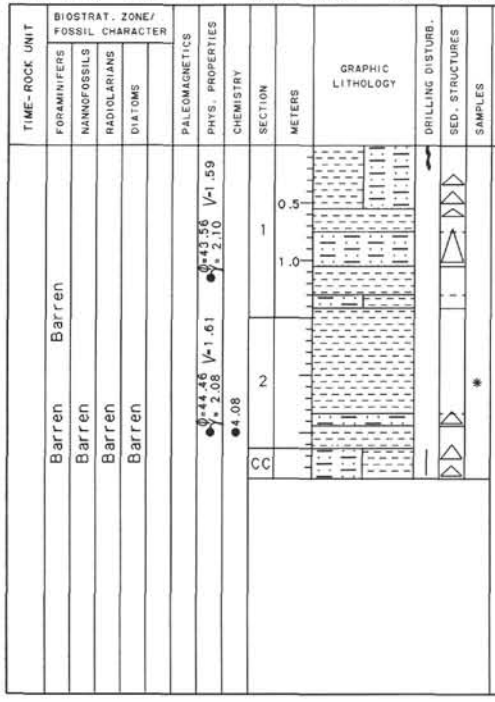


	1, 12 D	1, 75 D	2, 20 D	CC, 7 D
Silt	5	40	20	85
Clay	95	60	80	15
Access. minerals	1	5	5	5
Clay	80	50	50	15
Mica	1	5	—	5
Micrite	15	10	30	5
Quartz	3	30	15	70

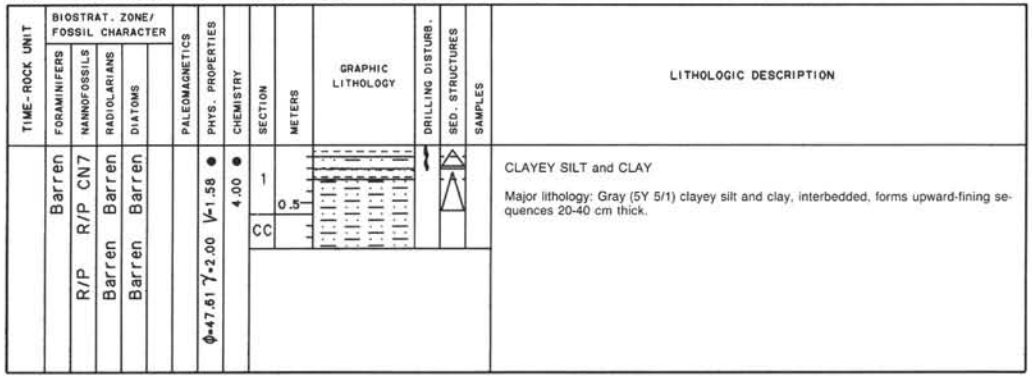




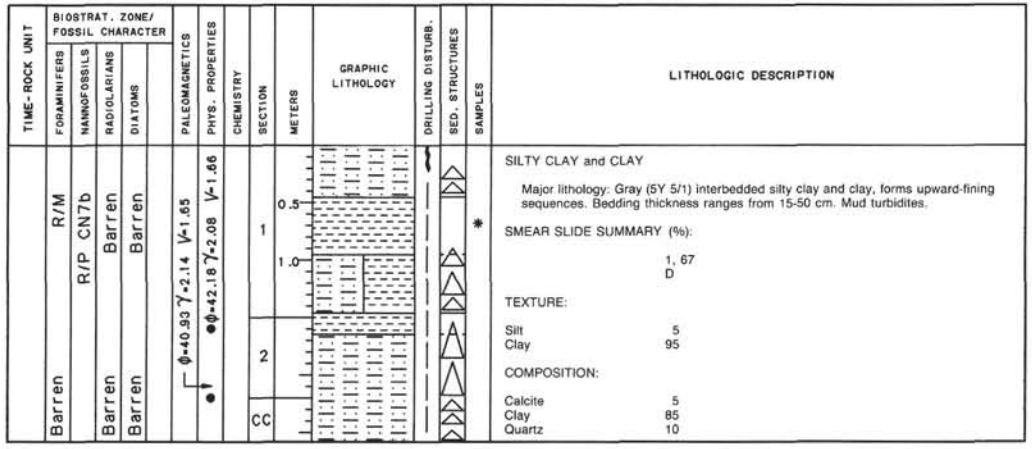
SITE 718 HOLE C CORE 46X CORED INTERVAL 5167.0-5176.5 mbsl; 436.8-446.3 mbsf


TIME-ROCK UNIT
BIOSTRAT. ZONE/ FOSSIL CHARACTER
FORAMINIFERS
NANNOFOSSILS
RADIOLARIANS
DIATOMS
PALEOMAGNETICS
PHYS. PROPERTIES
CHEMISTRY
SECTION
METERS
GRAPHIC LITHOLOGY
DRILLING DISTURB.
SED. STRUCTURES
SAMPLES
Barren
Barren
Barren

SITE 718 HOLE C CORE 48X CORED INTERVAL 5186.0-5195.5 mbsl; 455.8-465.3 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
Barren
R/P CN7
R/P
Barren
Barren
Barren

SITE 718 HOLE C CORE 50X CORED INTERVAL 5205.0-5214.5 mbsl; 474.8-484.3 mbsf



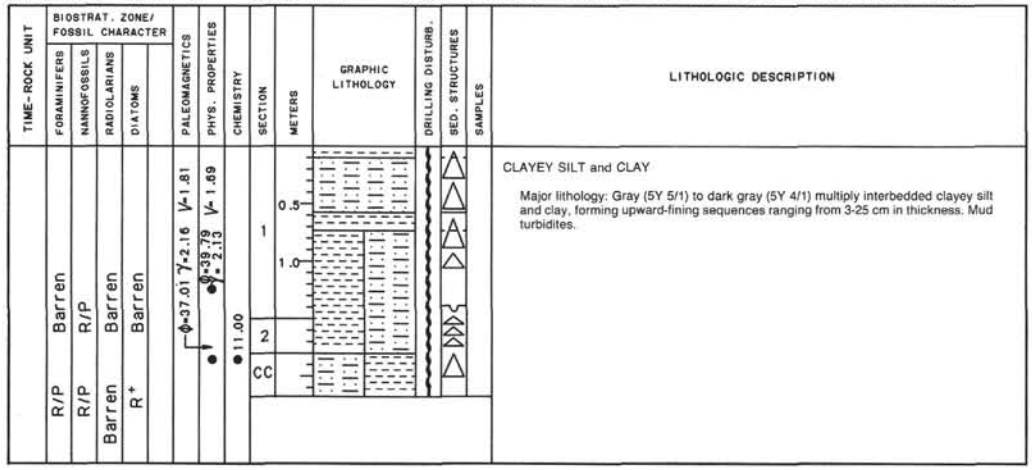
SILTY CLAY and CLAY

Major lithology: Gray (5Y 5/1) interbedded silty clay and clay, forms upward-fining sequences. Bedding thickness ranges from 15-50 cm. Mud turbidites.

SMEAR SLIDE SUMMARY (%):

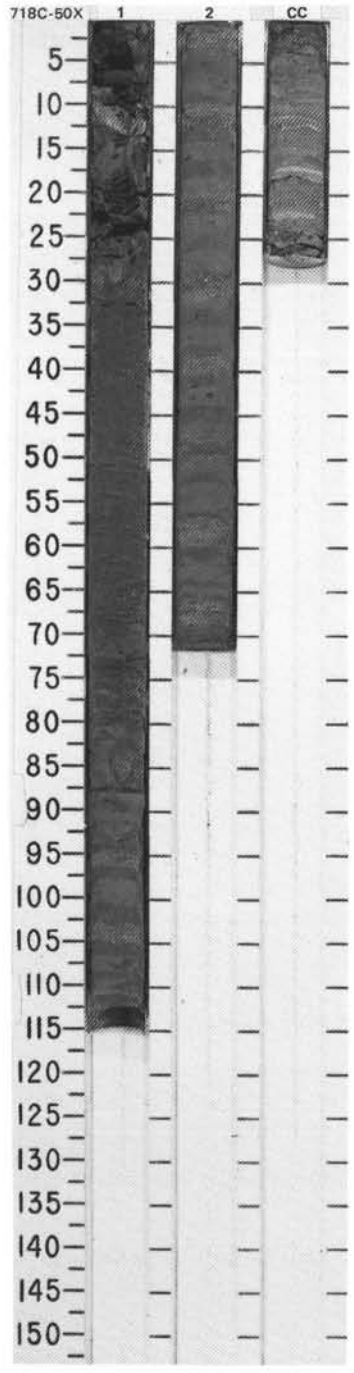
	1, 67 D
TEXTURE:	
Silt	5
Clay	95
COMPOSITION:	
Calcite	5
Clay	85
Quartz	10

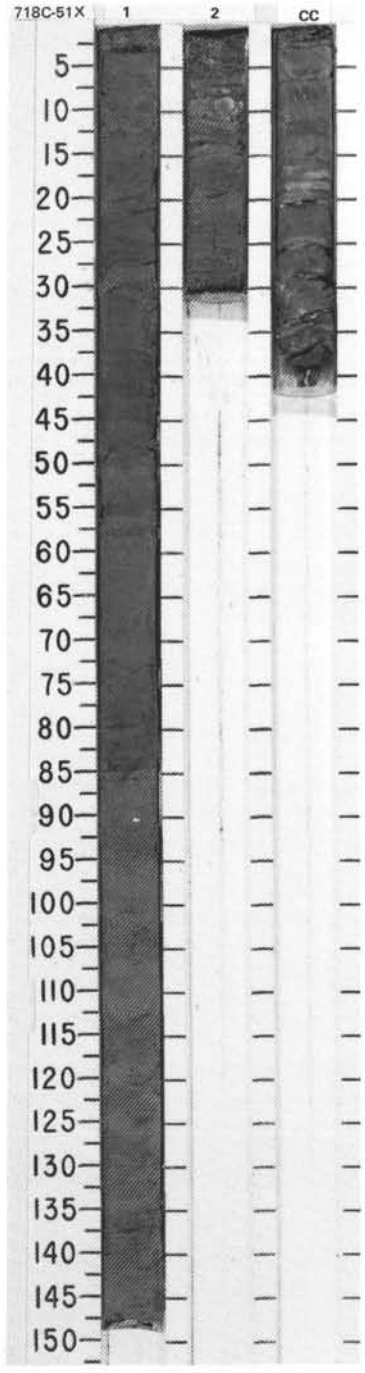
SITE 718 HOLE C CORE 51X CORED INTERVAL 5214.5-5224.0 mbsf; 484.3-493.8 mbsf



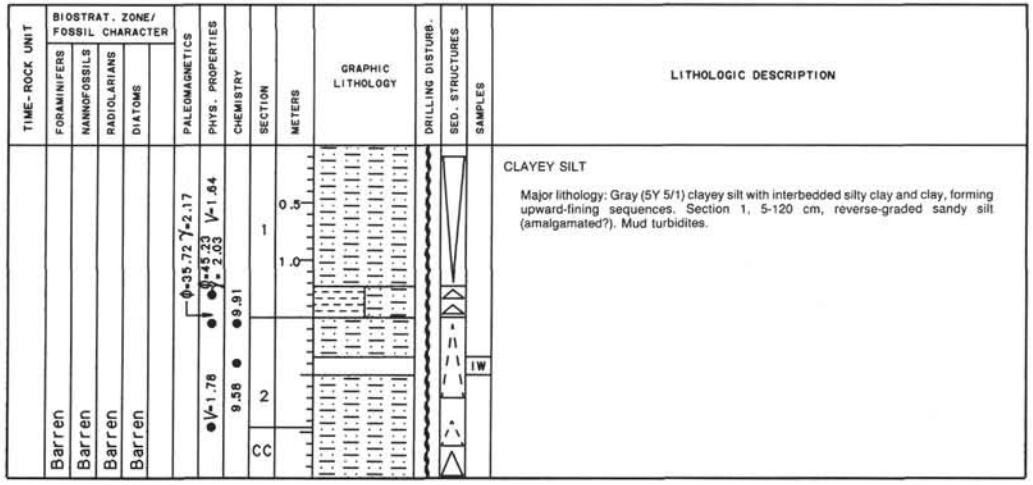
CLAYEY SILT and CLAY

Major lithology: Gray (5Y 5/1) to dark gray (5Y 4/1) multiply interbedded clayey silt and clay, forming upward-fining sequences ranging from 3-25 cm in thickness. Mud turbidites.





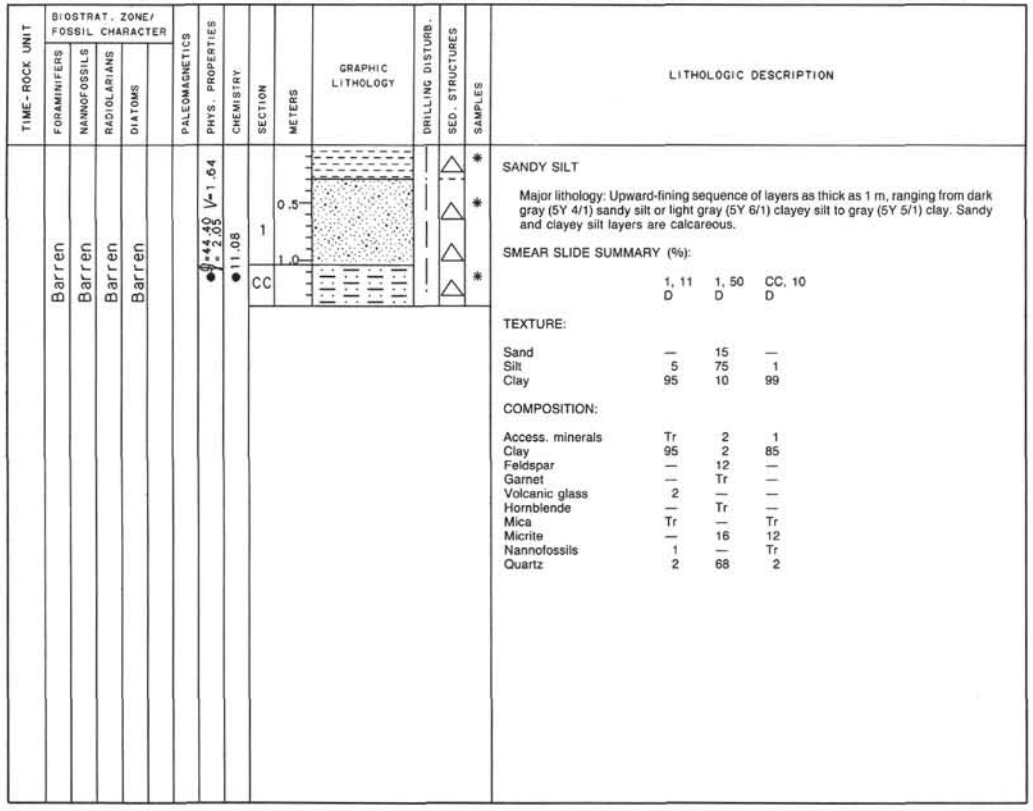
SITE 718 HOLE C CORE 52X CORED INTERVAL 5224.0-5233.5 mbsl; 493.8-503.3 mbsf



CLAYEY SILT

Major lithology: Gray (5Y 5/1) clayey silt with interbedded silty clay and clay, forming upward-fining sequences. Section 1, 5-120 cm, reverse-graded sandy silt (amalgamated?). Mud turbidites.

SITE 718 HOLE C CORE 53X CORED INTERVAL 5233.5-5243.0 mbsl; 503.3-512.8 mbsf

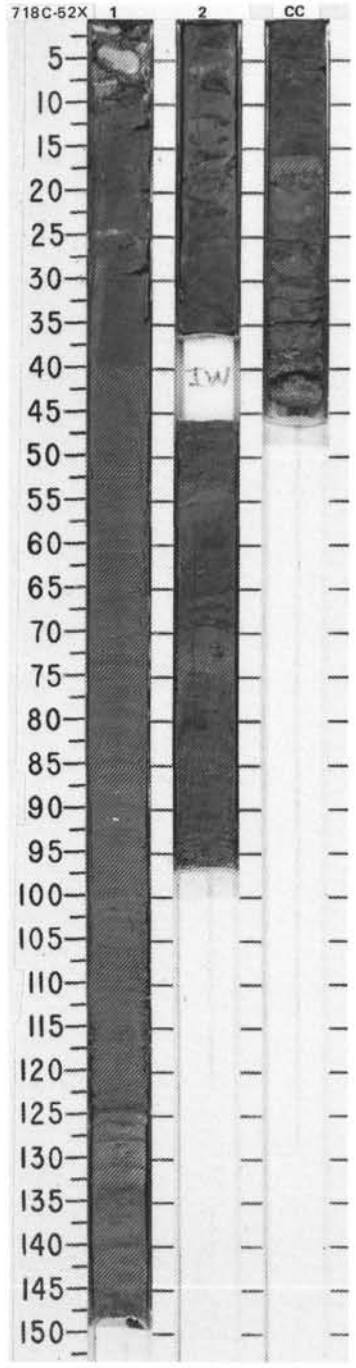


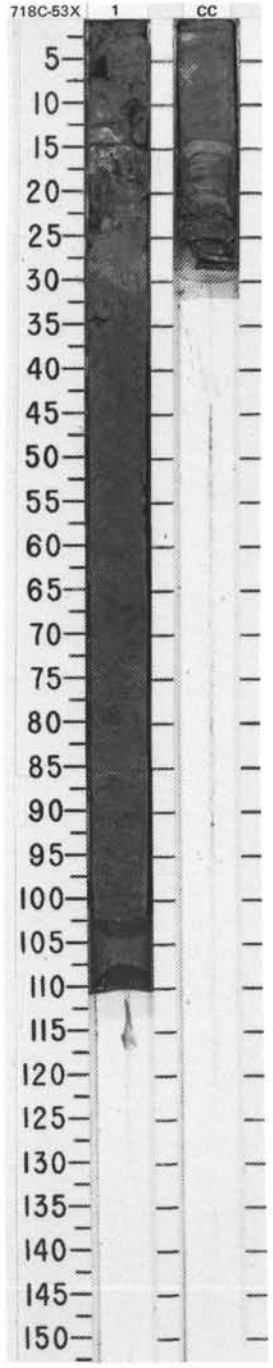
SANDY SILT

Major lithology: Upward-fining sequence of layers as thick as 1 m, ranging from dark gray (5Y 4/1) sandy silt or light gray (5Y 6/1) clayey silt to gray (5Y 5/1) clay. Sandy and clayey silt layers are calcareous.

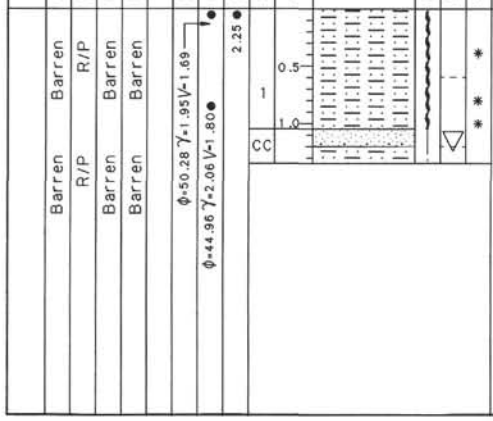
SMEAR SLIDE SUMMARY (%):

	1, 11 D	1, 50 D	CC, 10 D
TEXTURE:			
Sand	—	15	—
Silt	5	75	1
Clay	95	10	99
COMPOSITION:			
Access. minerals	Tr	2	1
Clay	95	2	85
Feldspar	—	12	—
Garnet	—	Tr	—
Volcanic glass	2	—	—
Hornblende	—	Tr	—
Mica	Tr	—	Tr
Micrite	—	16	12
Nannofossils	1	—	Tr
Quartz	2	68	2





SITE 718 HOLE C CORE 54X CORED INTERVAL 5243.0-5252.5 mbsl; 512.8-522.3 mbsf



LITHOLOGIC DESCRIPTION

CLAYEY SILT, CLAY, and SANDY SILT

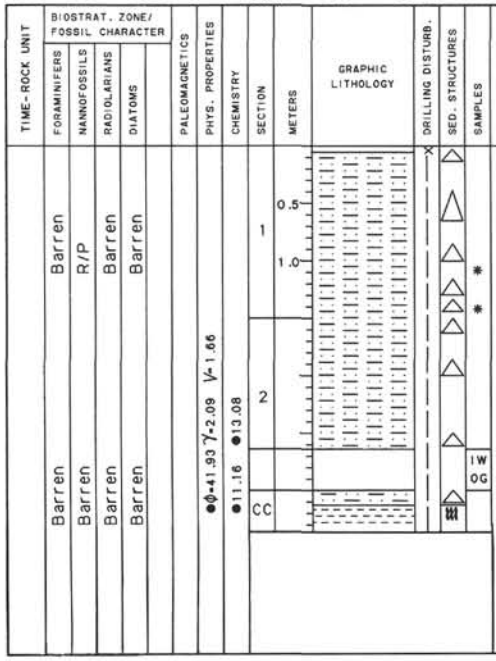
Drilling disturbance severe.

Major lithology: a. Mixture of gray (5Y 5/1) clayey silt and biscuits of grayish green (10Y 5/2) clay resulting from strong drilling disturbance, in Section 1. b. Upward-coarsening sequence, calcareous clayey silt at base to sandy silt at top, all gray (5Y 5/1), in CC.

SMEAR SLIDE SUMMARY (%):

	1, 39 D	1, 76 D	1, 96 D
TEXTURE:			
Silt	70	40	90
Clay	30	60	10
COMPOSITION:			
Access. minerals	10	5	40
Clay	25	50	5
Inorganic calcite	—	5	—
Mica	5	5	—
Micrite	5	10	5
Quartz	55	25	50

SITE 718 HOLE C CORE 55X CORED INTERVAL 5252.5-5262.0 mbsl; 522.3-531.8 mbsf



LITHOLOGIC DESCRIPTION

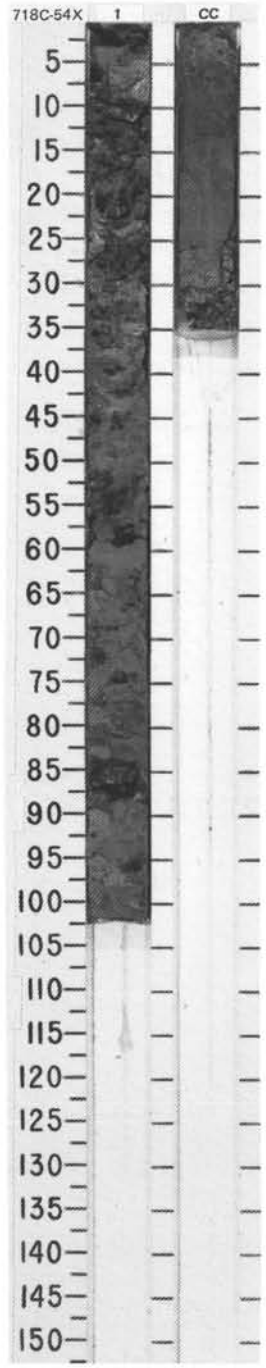
SILTY CLAY

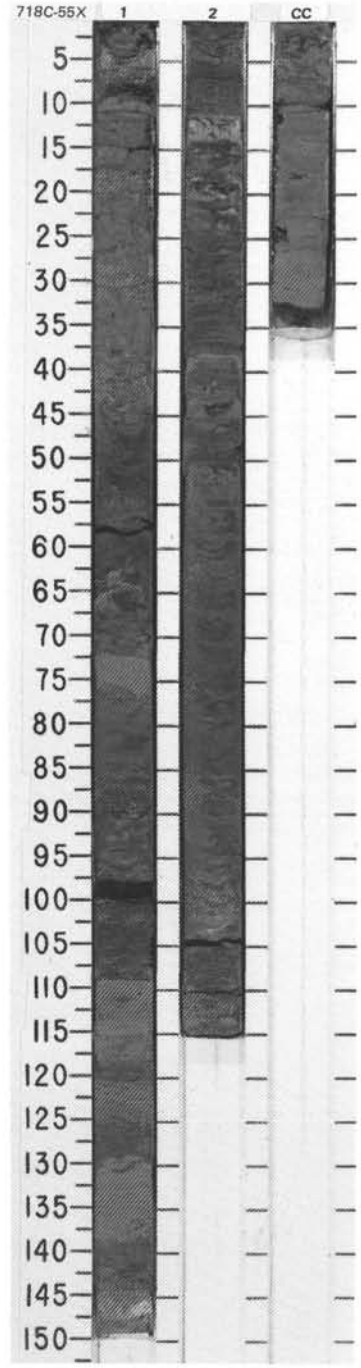
Major lithology: 5-60 cm thick upward-fining sequences, ranging from sandy silt or silt at base to clayey silt at top. Silty parts are calcareous. Uniformly gray (5Y 4/1).

Minor lithology: CC, 9-31 cm: Bioturbated clay, gray (5Y 4/1), with one silt lamina or burrow-filling at 25 cm.

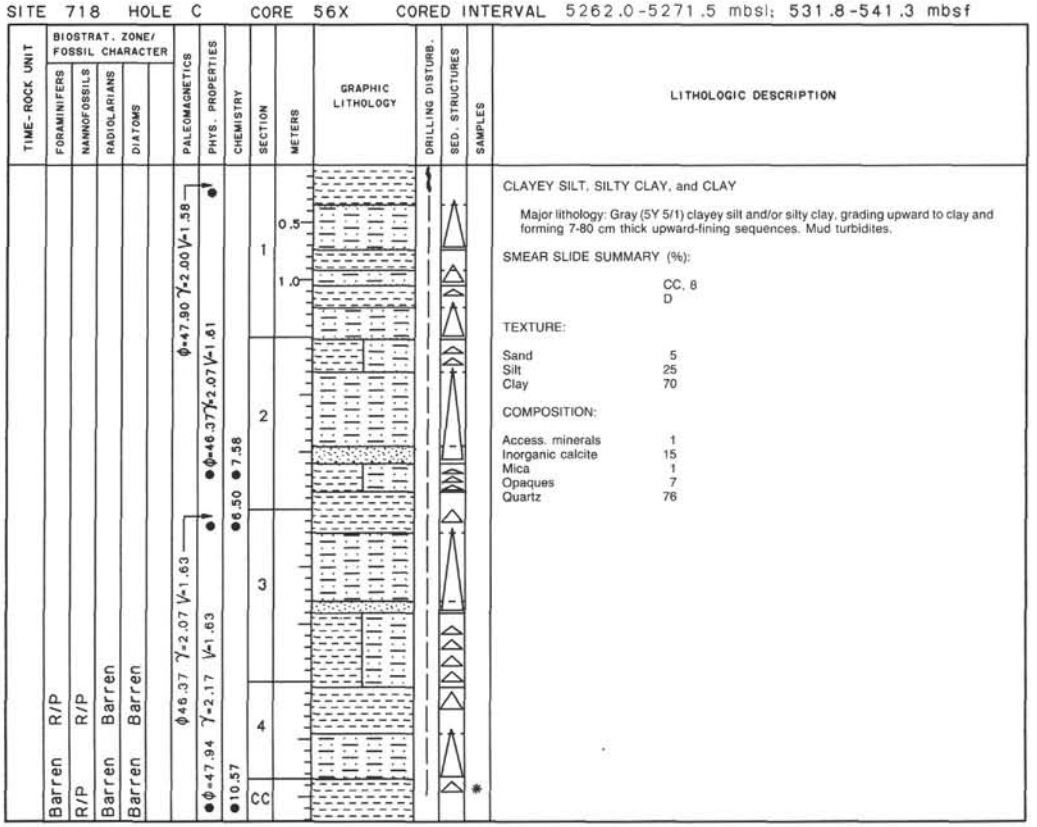
SMEAR SLIDE SUMMARY (%):

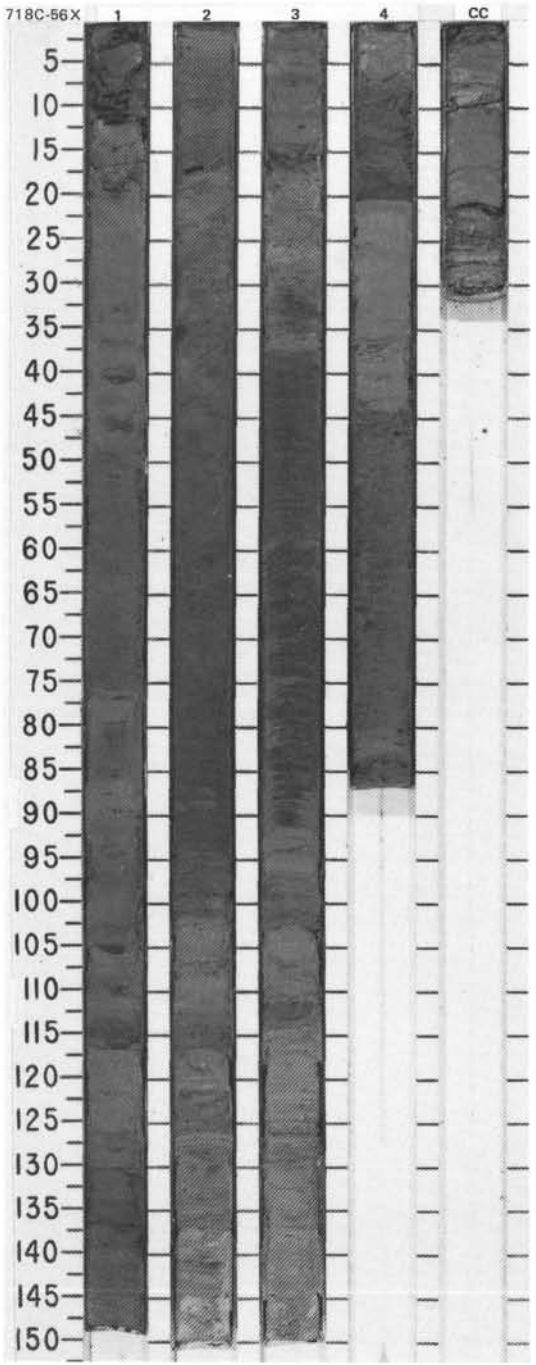
	1, 109 D	1, 142 D
TEXTURE:		
Sand	—	25
Silt	2	58
Clay	98	12
COMPOSITION:		
Clay	90	2
Diatoms	Tr	—
Feldspar	—	10
Garnet	Tr	—
Volcanic glass	Tr	—
Mica	Tr	Tr
Micrite	10	8
Quartz	Tr	80





SITE 718 HOLE C CORE 56X CORED INTERVAL 5262.0-5271.5 mbsl; 531.8-541.3 mbsf





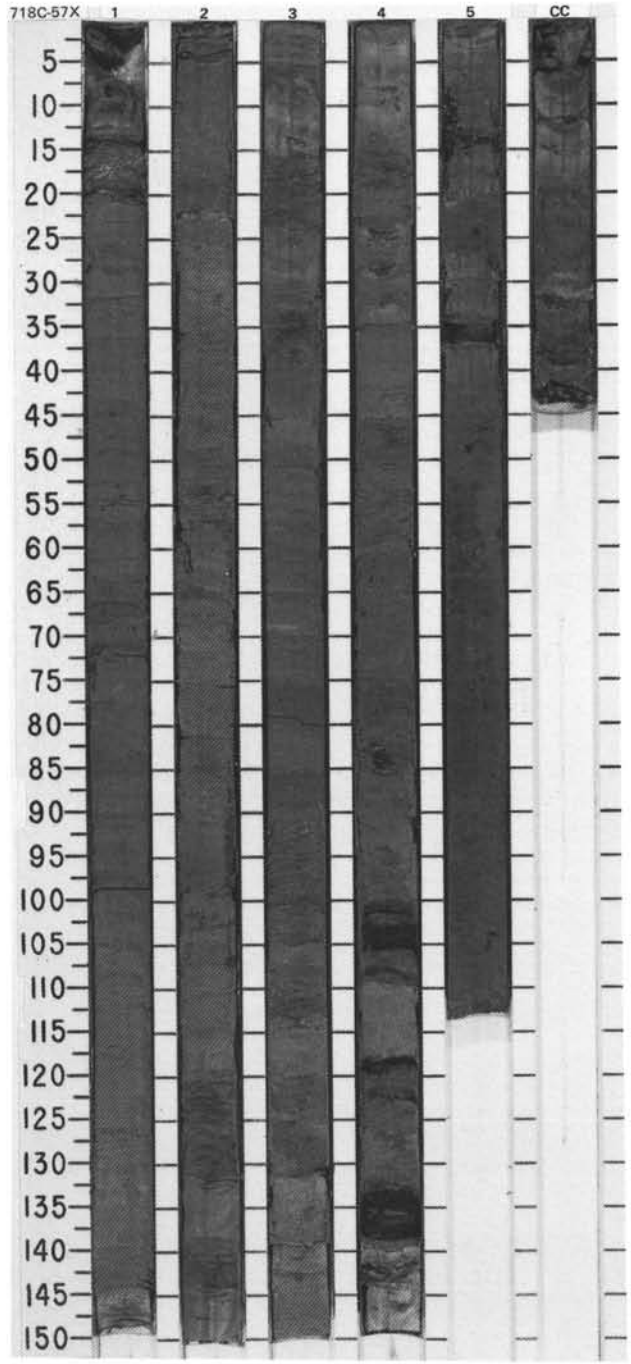
SITE 718 HOLE C CORE 57X CORED INTERVAL 5271.5-5281.0 mbsl; 541.3-550.8 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
	R/M	R/P	Barren	Barren		●φ=42.26 γ=2.13 V=1.68		CC					
	R/P	Barren	Barren	Barren		●φ=43.59 γ=2.06 V=1.63 ●φ=44.90 γ=2.04 V=1.56 ●φ=43.81 γ=2.06 V=1.63 ●φ=44.44 γ=2.06	●10.33 ●13.66	5					
								4					
								3					
								2					
								1	0.5 1.0				

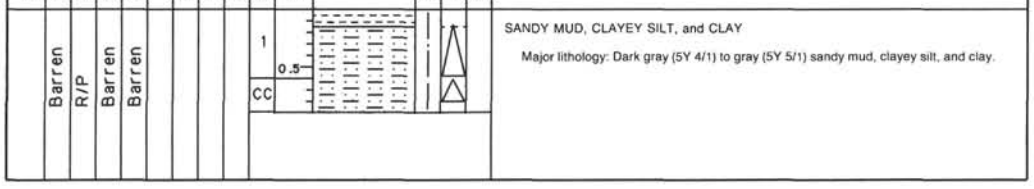
LITHOLOGIC DESCRIPTION

SILTY CLAY and CLAYEY SILT

Major lithology: Gray (5Y 5/1) clayey silt grading up to silty clay, forming upward-fining beds ranging in thickness from 5-70 cm.



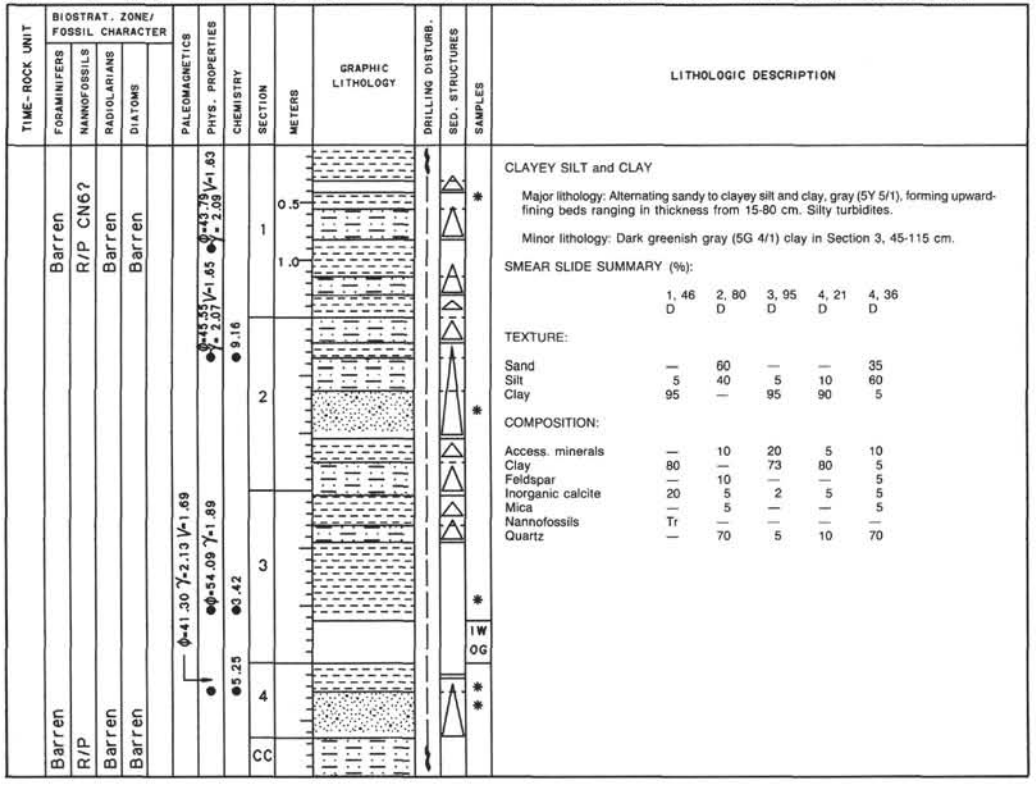
SITE 718 HOLE C CORE 58X CORED INTERVAL 5281.0-5290.5 mbsl; 550.8-560.3 mbsf



SANDY MUD, CLAYEY SILT, and CLAY

Major lithology: Dark gray (5Y 4/1) to gray (5Y 5/1) sandy mud, clayey silt, and clay.

SITE 718 HOLE C CORE 59X CORED INTERVAL 5290.5-5300.0 mbsl; 560.3-569.8 mbsf



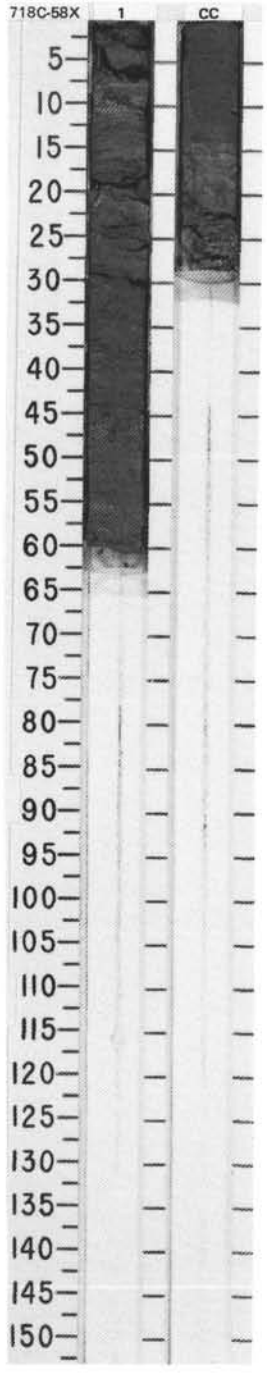
CLAYEY SILT and CLAY

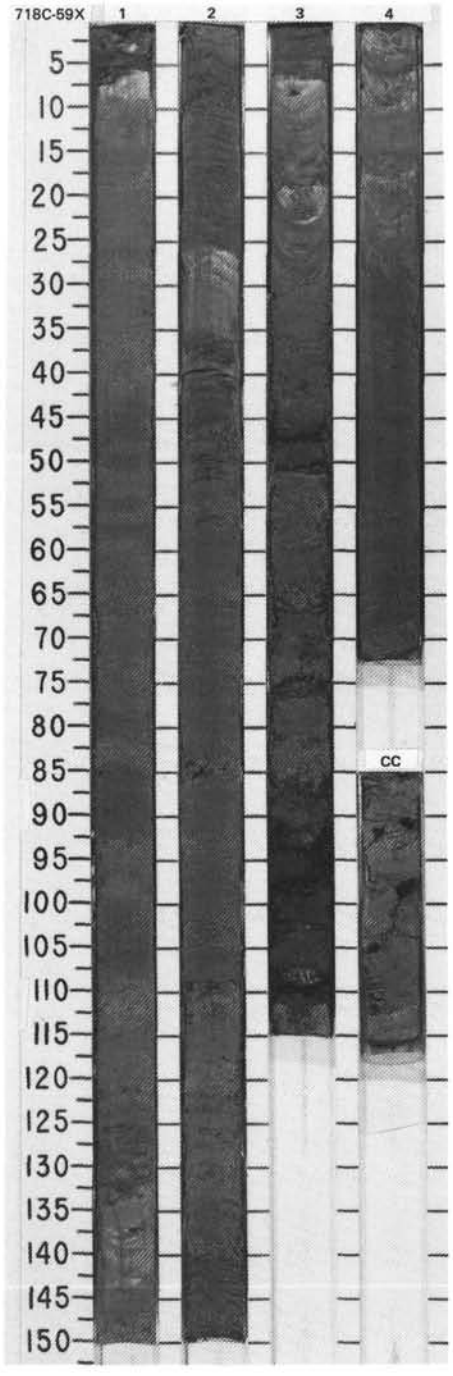
Major lithology: Alternating sandy to clayey silt and clay, gray (5Y 5/1), forming upward-fining beds ranging in thickness from 15-80 cm. Silty turbidites.

Minor lithology: Dark greenish gray (5G 4/1) clay in Section 3, 45-115 cm.

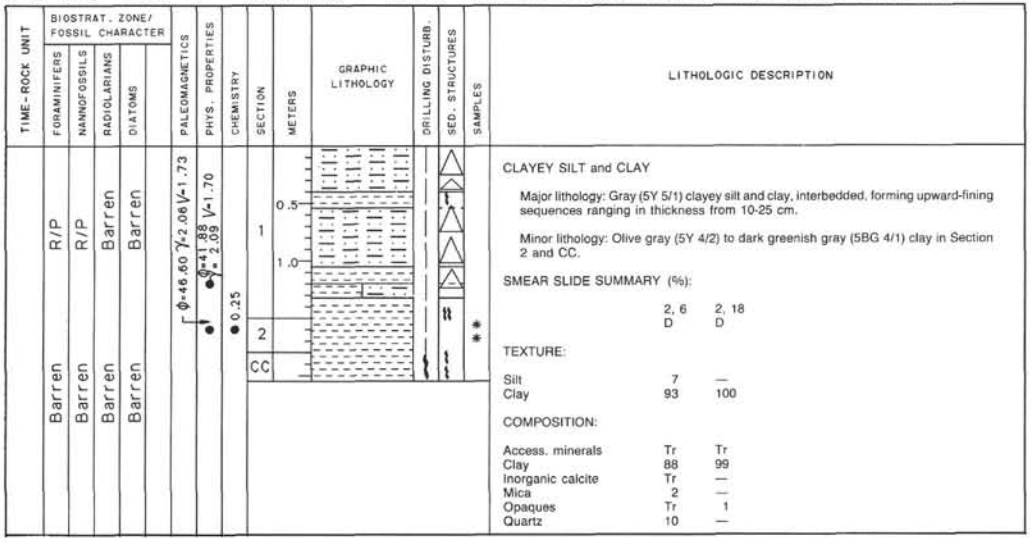
SMEAR SLIDE SUMMARY (%):

	1, 46 D	2, 80 D	3, 95 D	4, 21 D	4, 36 D
TEXTURE:					
Sand	—	60	—	—	35
Silt	5	40	5	10	60
Clay	95	—	95	90	5
COMPOSITION:					
Access. minerals	—	10	20	5	10
Clay	80	—	73	80	5
Feldspar	—	10	—	—	5
Inorganic calcite	20	5	2	5	5
Mica	—	5	—	—	5
Nannofossils	Tr	—	—	—	—
Quartz	—	70	5	10	70





SITE 718 HOLE C CORE 60X CORED INTERVAL 5300.0-5309.5 mbsl; 569.8-579.3 mbsf



CLAYEY SILT and CLAY

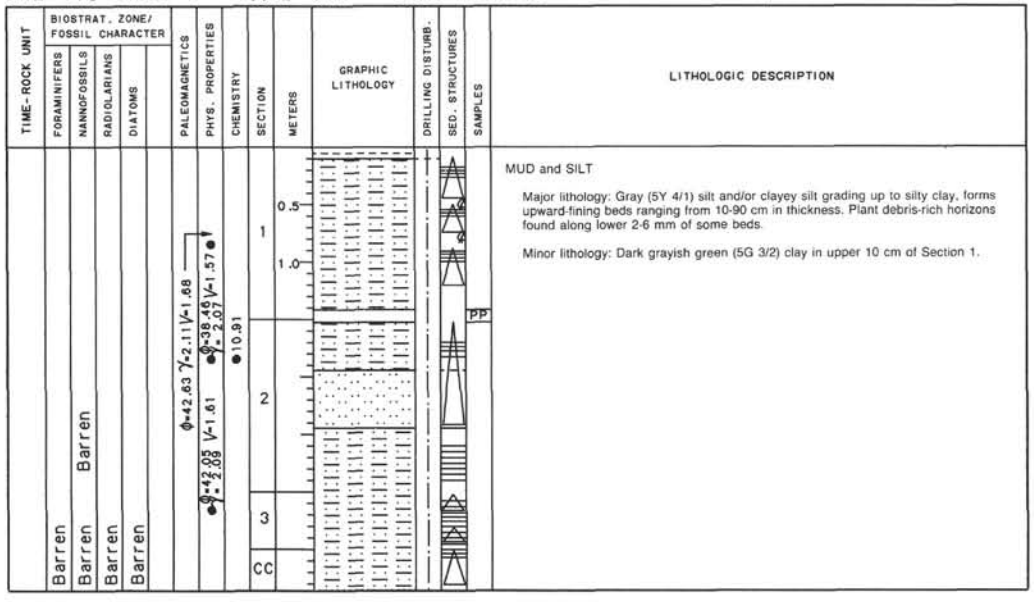
Major lithology: Gray (5Y 5/1) clayey silt and clay, interbedded, forming upward-fining sequences ranging in thickness from 10-25 cm.

Minor lithology: Olive gray (5Y 4/2) to dark greenish gray (5BG 4/1) clay in Section 2 and CC.

SMEAR SLIDE SUMMARY (%):

	2, 6 D	2, 18 D
TEXTURE:		
Silt	7	—
Clay	93	100
COMPOSITION:		
Access. minerals	Tr	Tr
Clay	88	99
Inorganic calcite	Tr	—
Mica	2	—
Opaques	Tr	1
Quartz	10	—

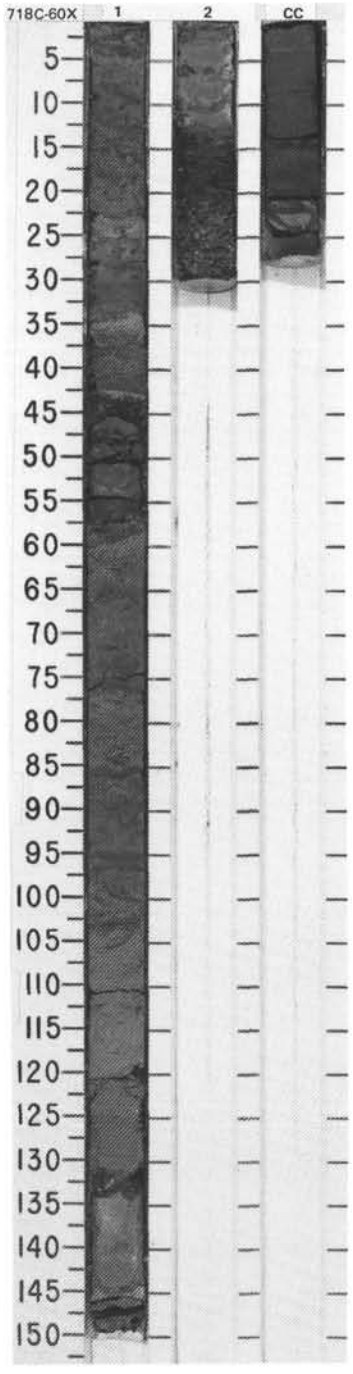
SITE 718 HOLE C CORE 61X CORED INTERVAL 5309.5-5319.0 mbsl; 579.3-588.8 mbsf

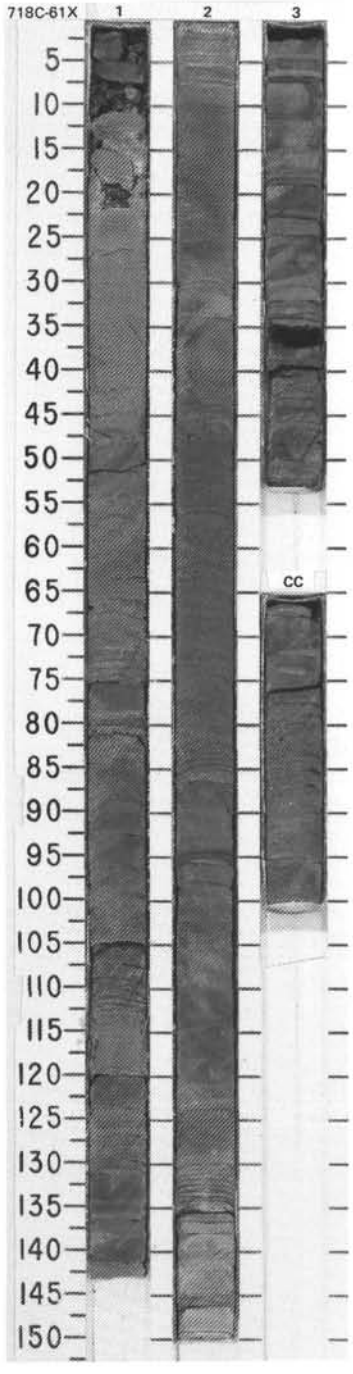


MUD and SILT

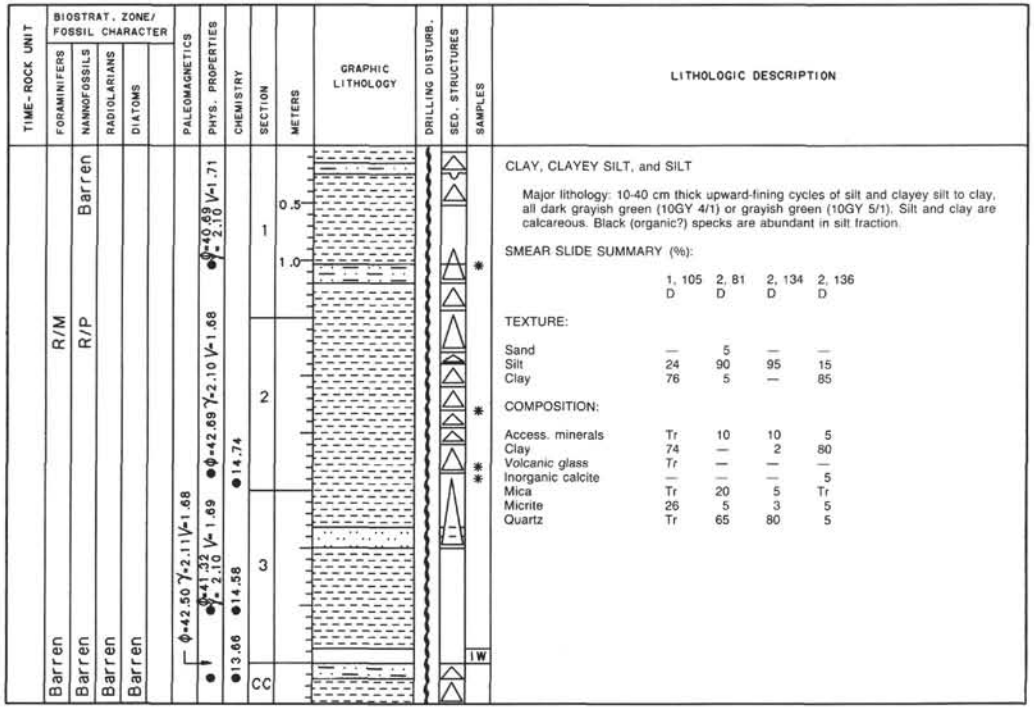
Major lithology: Gray (5Y 4/1) silt and/or clayey silt grading up to silty clay, forms upward-fining beds ranging from 10-90 cm in thickness. Plant debris-rich horizons found along lower 2-6 mm of some beds.

Minor lithology: Dark grayish green (5G 3/2) clay in upper 10 cm of Section 1.





SITE 718 HOLE C CORE 62X CORED INTERVAL 5319.0-5328.5 mbsl; 588.8-598.3 mbsf

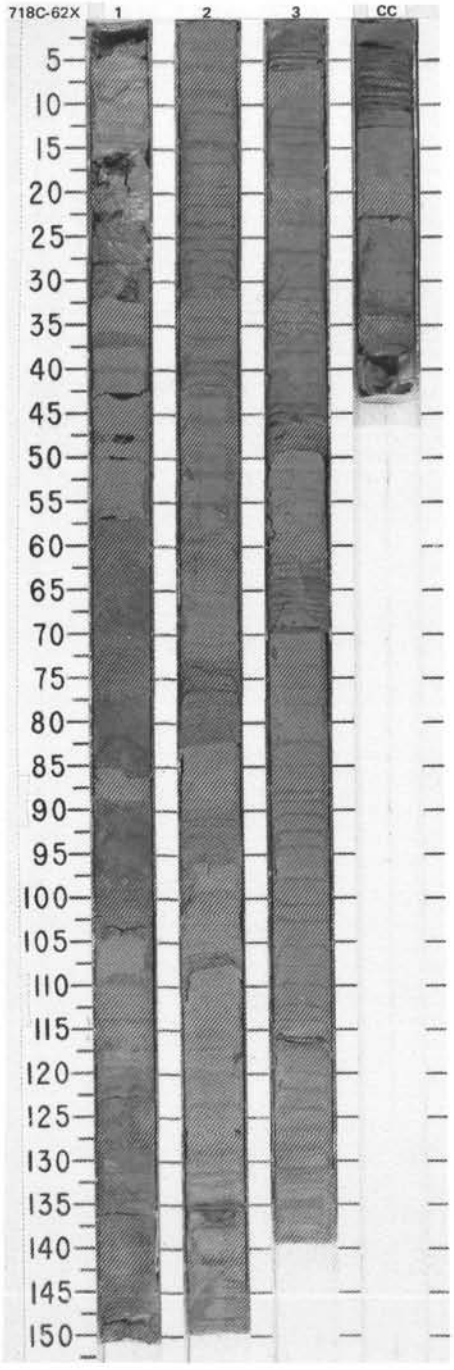


CLAY, CLAYEY SILT, and SILT

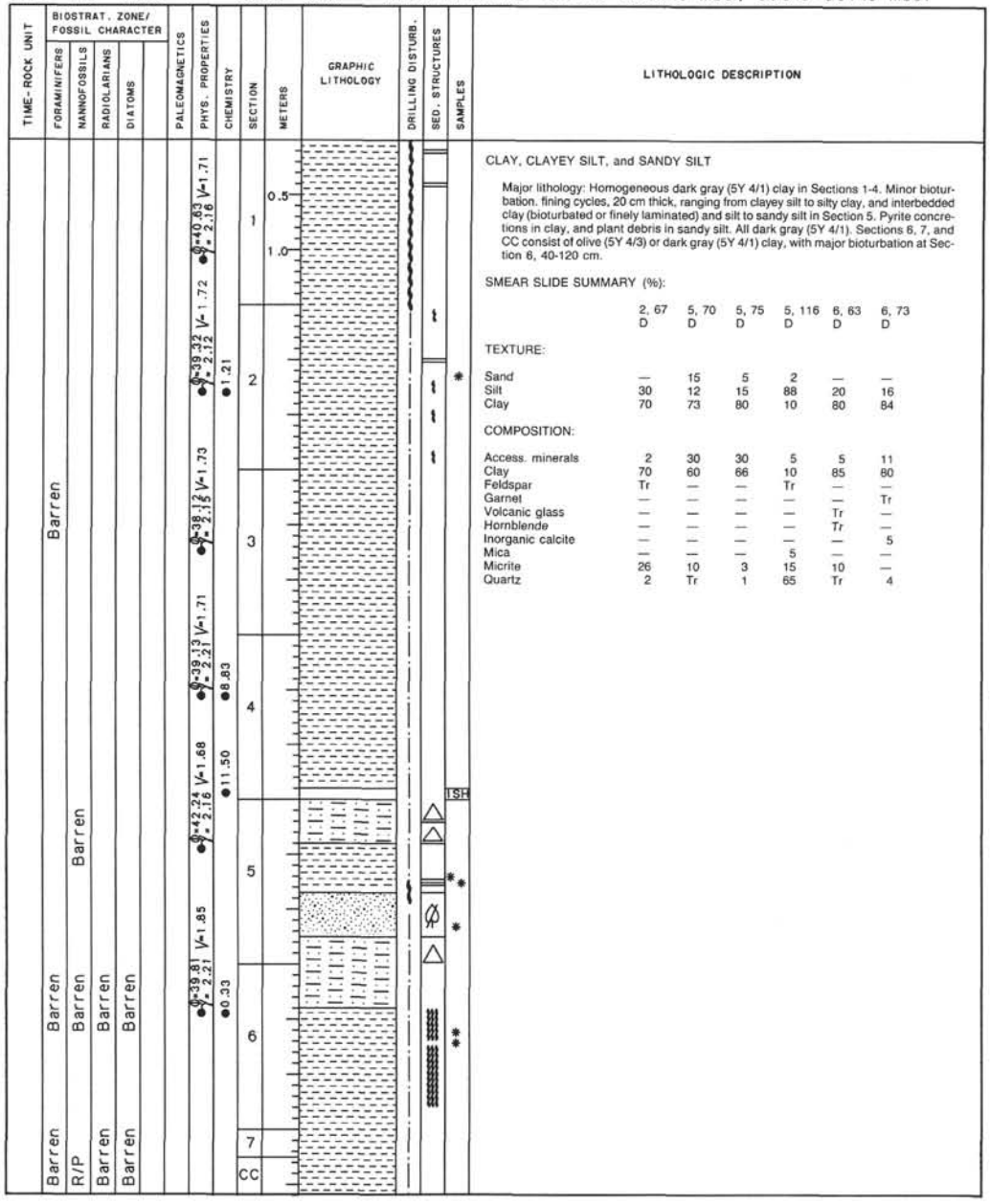
Major lithology: 10-40 cm thick upward-fining cycles of silt and clayey silt to clay, all dark grayish green (10GY 4/1) or grayish green (10GY 5/1). Silt and clay are calcareous. Black (organic?) specks are abundant in silt fraction.

SMEAR SLIDE SUMMARY (%):

	1, 105 D	2, 81 D	2, 134 D	2, 136 D
TEXTURE:				
Sand	—	5	—	—
Silt	24	90	95	15
Clay	76	5	—	85
COMPOSITION:				
Access. minerals	Tr	10	10	5
Clay	74	—	2	80
Volcanic glass	Tr	—	—	—
Inorganic calcite	—	—	—	5
Mica	Tr	20	5	Tr
Micrite	26	5	3	5
Quartz	Tr	65	80	5



SITE 718 HOLE C CORE 63X CORED INTERVAL 5328.5-5338.0 mbsl; 598.3-607.8 mbsf



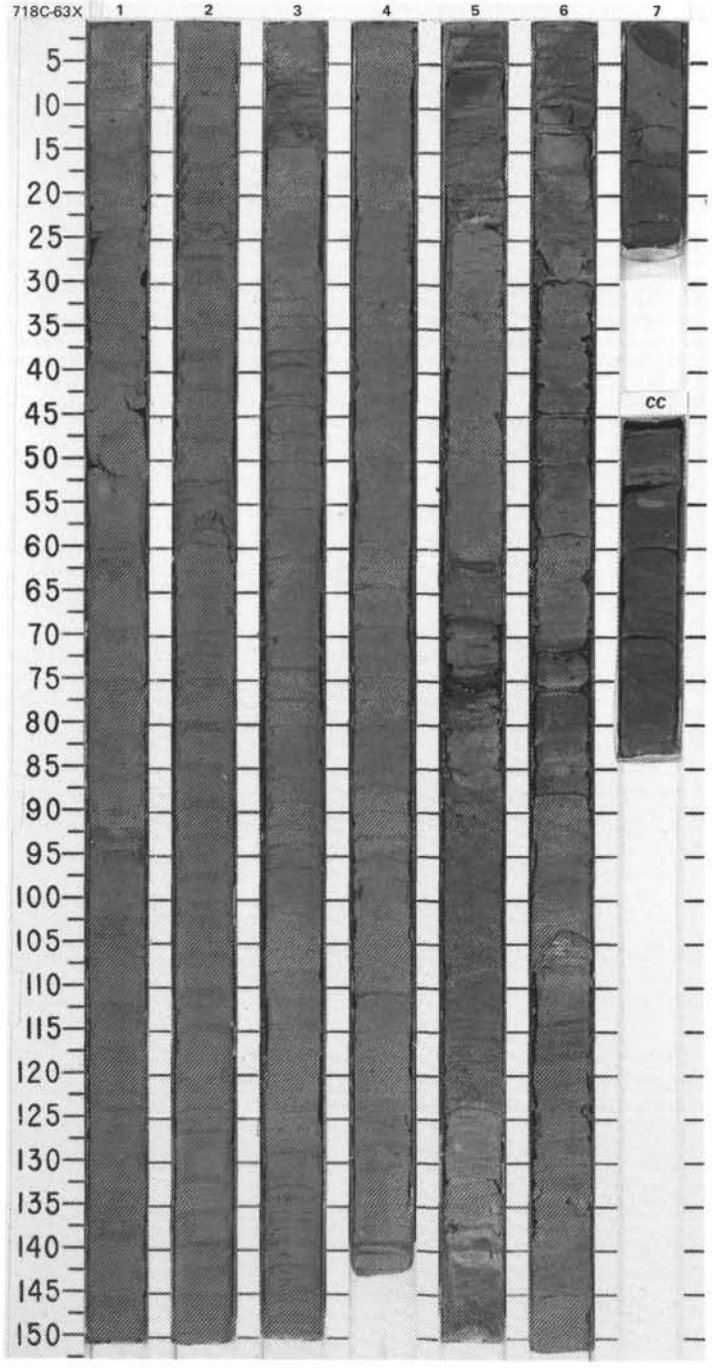
LITHOLOGIC DESCRIPTION

CLAY, CLAYEY SILT, and SANDY SILT

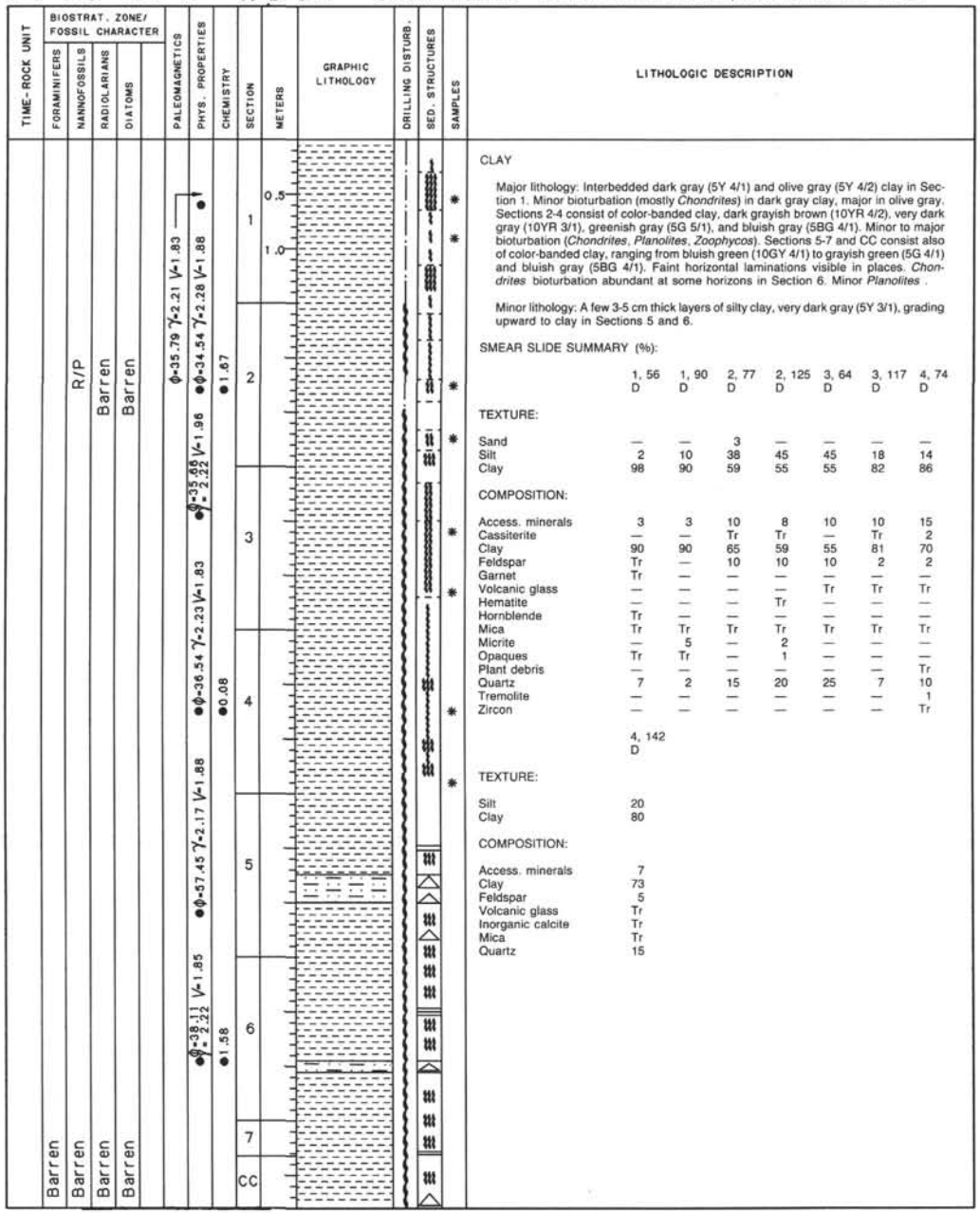
Major lithology: Homogeneous dark gray (5Y 4/1) clay in Sections 1-4. Minor bioturbation. fining cycles, 20 cm thick, ranging from clayey silt to silty clay, and interbedded clay (bioturbated or finely laminated) and silt to sandy silt in Section 5. Pyrite concretions in clay, and plant debris in sandy silt. All dark gray (5Y 4/1). Sections 6, 7, and CC consist of olive (5Y 4/3) or dark gray (5Y 4/1) clay, with major bioturbation at Section 6, 40-120 cm.

SMEAR SLIDE SUMMARY (%):

	2, 67 D	5, 70 D	5, 75 D	5, 116 D	6, 63 D	6, 73 D
TEXTURE:						
Sand	—	15	5	2	—	—
Silt	30	12	15	88	20	16
Clay	70	73	80	10	80	84
COMPOSITION:						
Access. minerals	2	30	30	5	5	11
Clay	70	60	66	10	85	80
Feldspar	Tr	—	—	Tr	—	—
Garnet	—	—	—	—	—	Tr
Volcanic glass	—	—	—	—	Tr	—
Hornblende	—	—	—	—	Tr	—
Inorganic calcite	—	—	—	—	—	5
Mica	—	—	—	5	—	—
Micrite	26	10	3	15	10	—
Quartz	2	Tr	1	65	Tr	4



SITE 718 HOLE C CORE 64X CORED INTERVAL 5338.0-5347.5 mbsl; 607.8-617.3 mbsf



LITHOLOGIC DESCRIPTION

CLAY

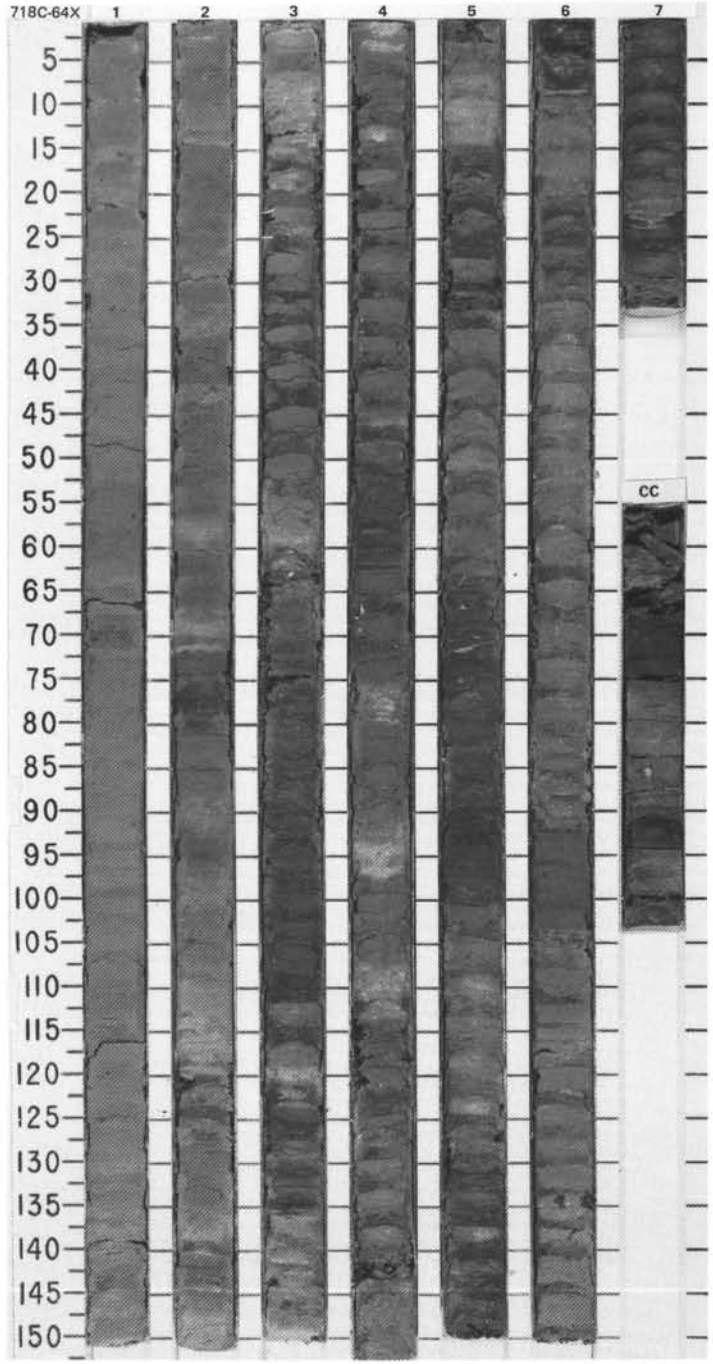
Major lithology: Interbedded dark gray (5Y 4/1) and olive gray (5Y 4/2) clay in Section 1. Minor bioturbation (mostly *Chondrites*) in dark gray clay, major in olive gray. Sections 2-4 consist of color-banded clay, dark grayish brown (10YR 4/2), very dark gray (10YR 3/1), greenish gray (5G 5/1), and bluish gray (5BG 4/1). Minor to major bioturbation (*Chondrites*, *Planolites*, *Zoophycos*). Sections 5-7 and CC consist also of color-banded clay, ranging from bluish green (10GY 4/1) to grayish green (5G 4/1) and bluish gray (5BG 4/1). Faint horizontal laminations visible in places. *Chondrites* bioturbation abundant at some horizons in Section 6. Minor *Planolites* .

Minor lithology: A few 3-5 cm thick layers of silty clay, very dark gray (5Y 3/1), grading upward to clay in Sections 5 and 6.

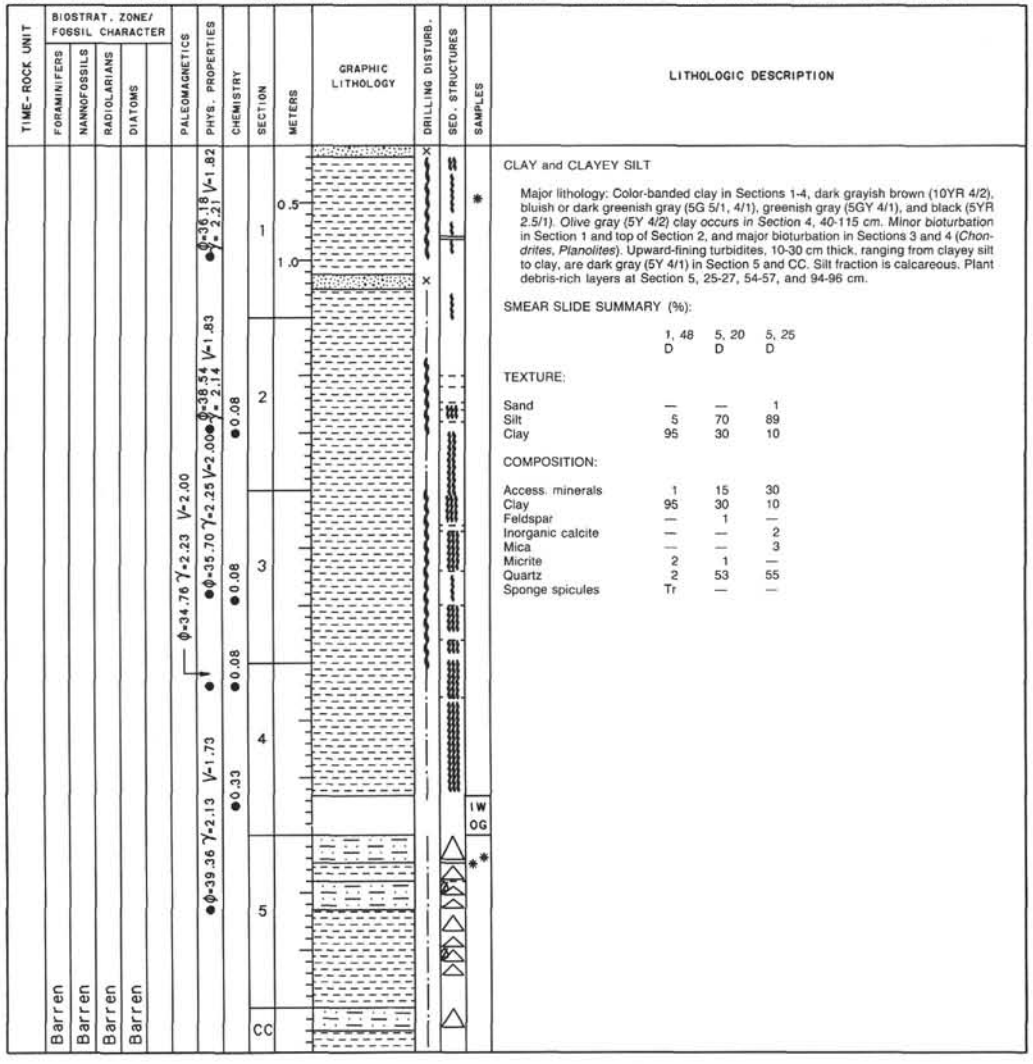
SMEAR SLIDE SUMMARY (%):

	1, 56	1, 90	2, 77	2, 125	3, 64	3, 117	4, 74
	D	D	D	D	D	D	D
TEXTURE:							
Sand	—	—	3	—	—	—	—
Silt	2	10	38	45	45	18	14
Clay	98	90	59	55	55	82	86
COMPOSITION:							
Access. minerals	3	3	10	8	10	10	15
Cassiterite	—	—	Tr	Tr	—	Tr	2
Clay	90	90	65	59	55	81	70
Feldspar	Tr	—	10	10	10	2	2
Garnet	Tr	—	—	—	—	—	—
Volcanic glass	—	—	—	—	Tr	Tr	Tr
Hematite	—	—	—	Tr	—	—	—
Hornblende	Tr	—	—	—	—	—	—
Mica	Tr	Tr	Tr	Tr	Tr	Tr	Tr
Micrite	—	5	—	2	—	—	—
Opaques	Tr	Tr	—	1	—	—	—
Plant debris	—	—	—	—	—	—	Tr
Quartz	7	2	15	20	25	7	10
Tremolite	—	—	—	—	—	—	1
Zircon	—	—	—	—	—	—	Tr

	4, 142
	D
TEXTURE:	
Silt	20
Clay	80
COMPOSITION:	
Access. minerals	7
Clay	73
Feldspar	5
Volcanic glass	Tr
Inorganic calcite	Tr
Mica	Tr
Quartz	15



SITE 718 HOLE C CORE 65X CORED INTERVAL 5347.5-5357.0 mbsl; 617.3-626.8 mbsf



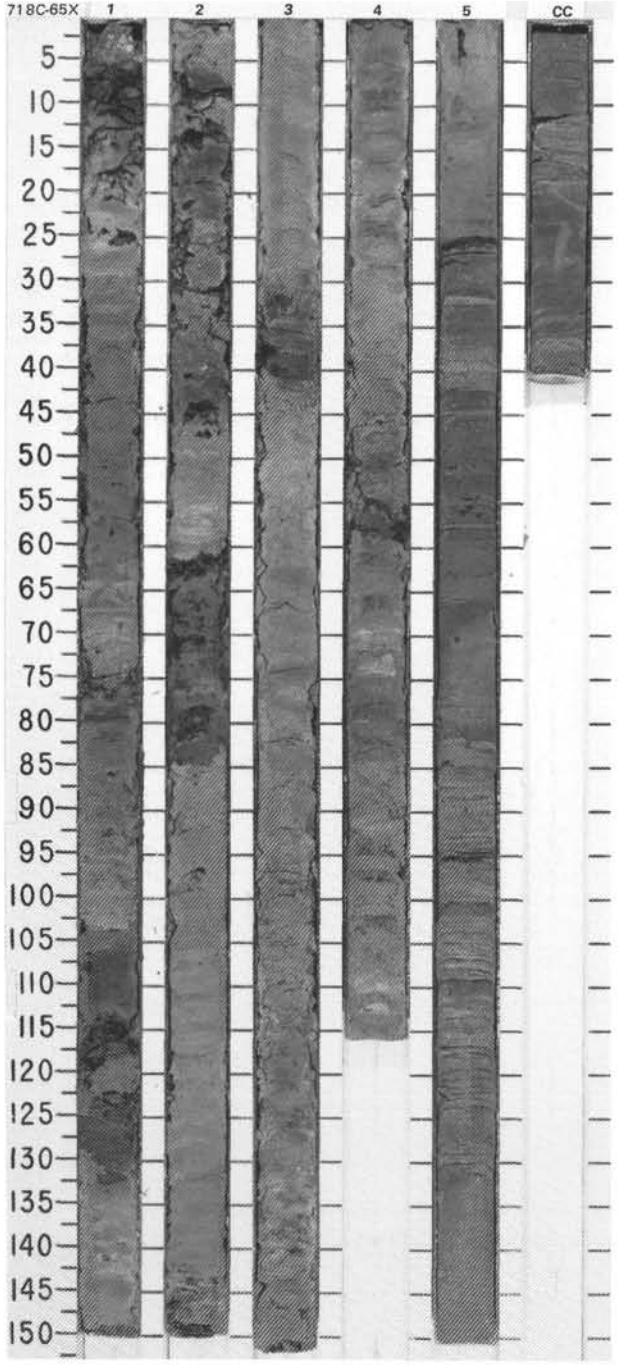
LITHOLOGIC DESCRIPTION

CLAY and CLAYEY SILT

Major lithology: Color-banded clay in Sections 1-4, dark grayish brown (10YR 4/2), bluish or dark greenish gray (5G 5/1, 4/1), greenish gray (5GY 4/1), and black (5YR 2.5/1). Olive gray (5Y 4/2) clay occurs in Section 4, 40-115 cm. Minor bioturbation in Section 1 and top of Section 2, and major bioturbation in Sections 3 and 4 (*Chondrites*, *Planolites*). Upward-fining turbidites, 10-30 cm thick, ranging from clayey silt to clay, are dark gray (5Y 4/1) in Section 5 and CC. Silt fraction is calcareous. Plant debris-rich layers at Section 5, 25-27, 54-57, and 94-96 cm.

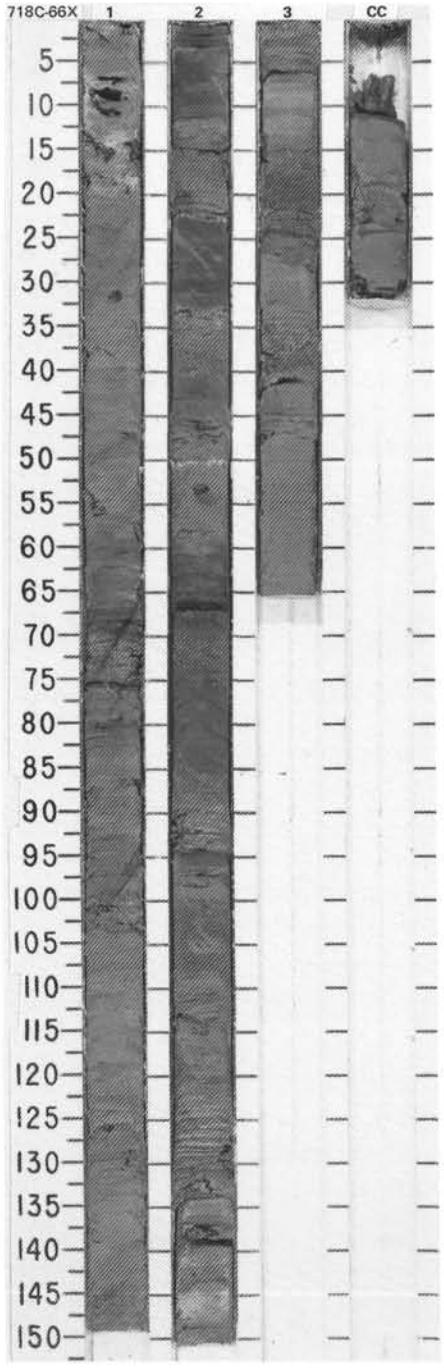
SMEAR SLIDE SUMMARY (%):

	1, 48 D	5, 20 D	5, 25 D
TEXTURE:			
Sand	—	—	1
Silt	5	70	89
Clay	95	30	10
COMPOSITION:			
Access. minerals	1	15	30
Clay	95	30	10
Feldspar	—	1	—
Inorganic calcite	—	—	2
Mica	—	—	3
Micrite	2	1	—
Quartz	2	53	55
Sponge spicules	Tr	—	—

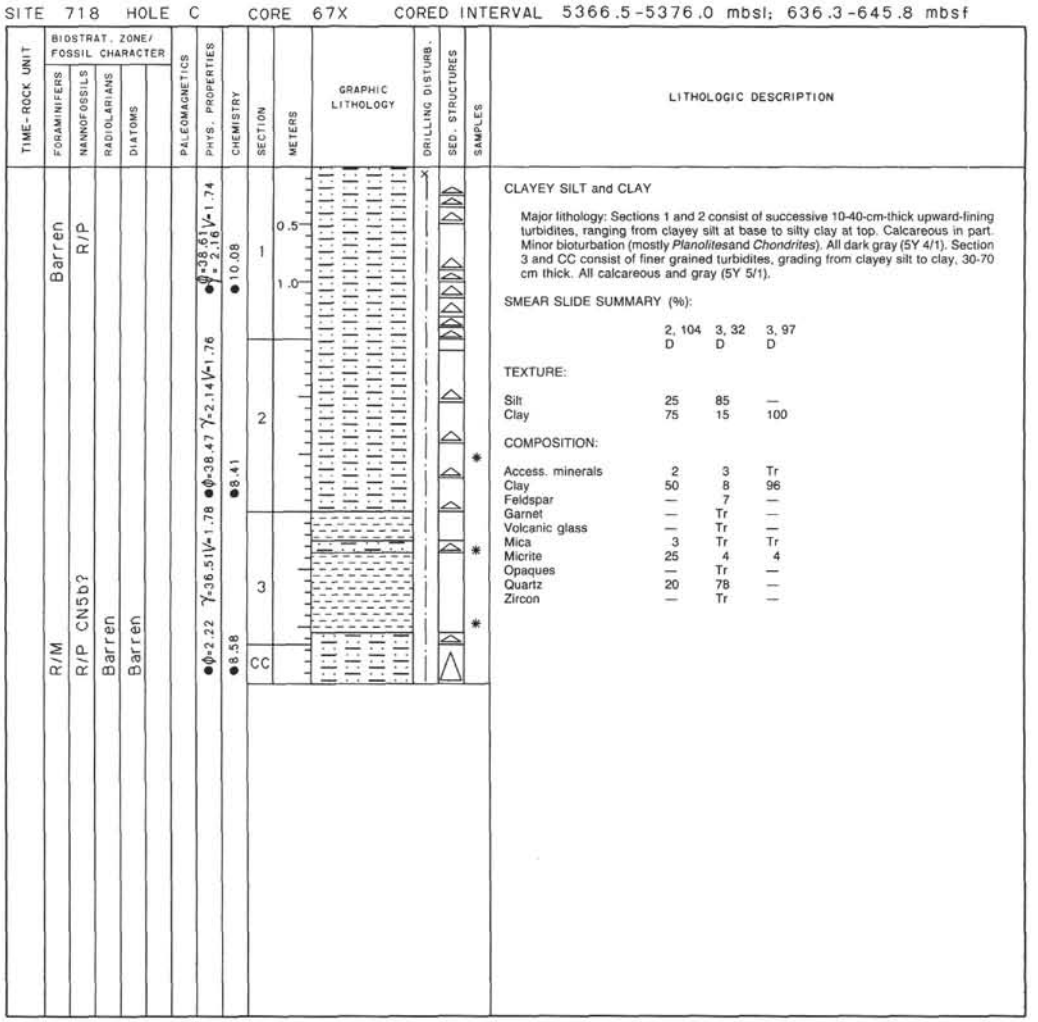


SITE 718 HOLE C CORE 66X CORED INTERVAL 5357.0-5366.5 mbsl; 626.8-636.3 mbsf

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
	Barren	Barren	Barren	Barren	φ=41.64 γ=2.16 V=1.70		9.41	1	0.5, 1.0					CLAY and CLAYEY SILT
						φ=40.05 γ=2.11 V=1.72	11.16	2						Major lithology: Two 70-cm-thick fine-grained turbidites grade upward from clayey silt and silty clay to clay in Section 1. Plant debris-rich layers at Section 1, 67-69 and 74-76 cm. Silt fraction is calcareous. All grayish green (10Y 5/1). Sections 2, 3, and CC consist of 5-20 cm thick upward-fining cycles ranging from clayey silt at base to silty clay on top. Sparse bioturbation in fine-grained parts (*Planolites*). One plant debris-rich layer at Section 2, 63 cm.
							7.75	3						
	Barren	R/P			φ=39.09 γ=2.13 V=1.75			CC						



SITE 718 HOLE C CORE 67X CORED INTERVAL 5366.5-5376.0 mbsl; 636.3-645.8 mbsf



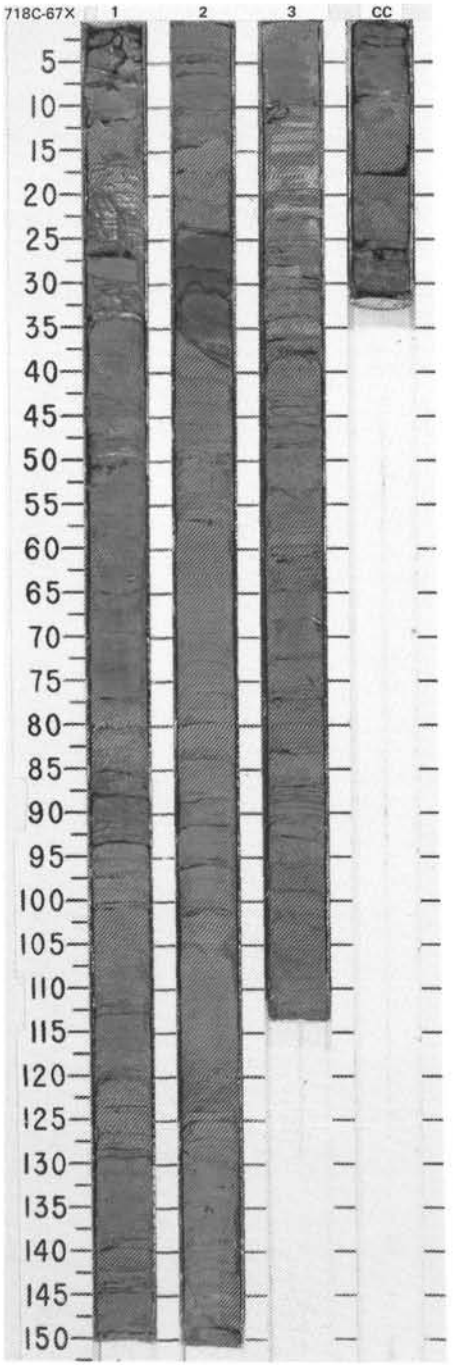
LITHOLOGIC DESCRIPTION

CLAYEY SILT and CLAY

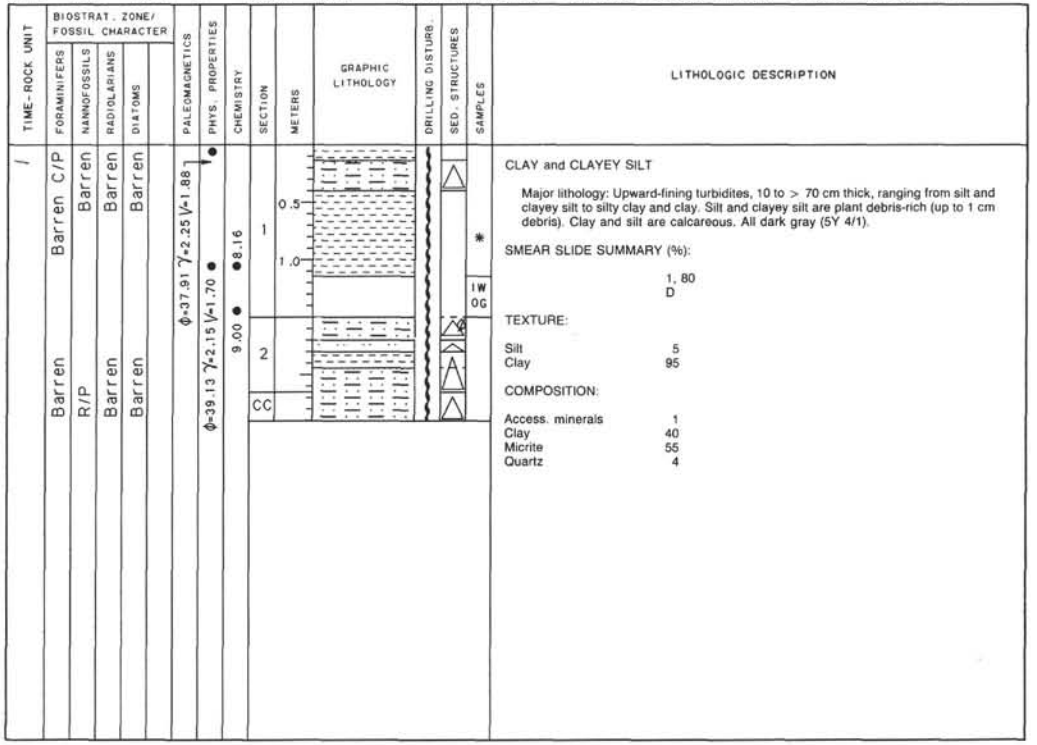
Major lithology: Sections 1 and 2 consist of successive 10-40-cm-thick upward-fining turbidites, ranging from clayey silt at base to silty clay at top. Calcareous in part. Minor bioturbation (mostly *Planolites* and *Chondrites*). All dark gray (5Y 4/1). Section 3 and CC consist of finer grained turbidites, grading from clayey silt to clay, 30-70 cm thick. All calcareous and gray (5Y 5/1).

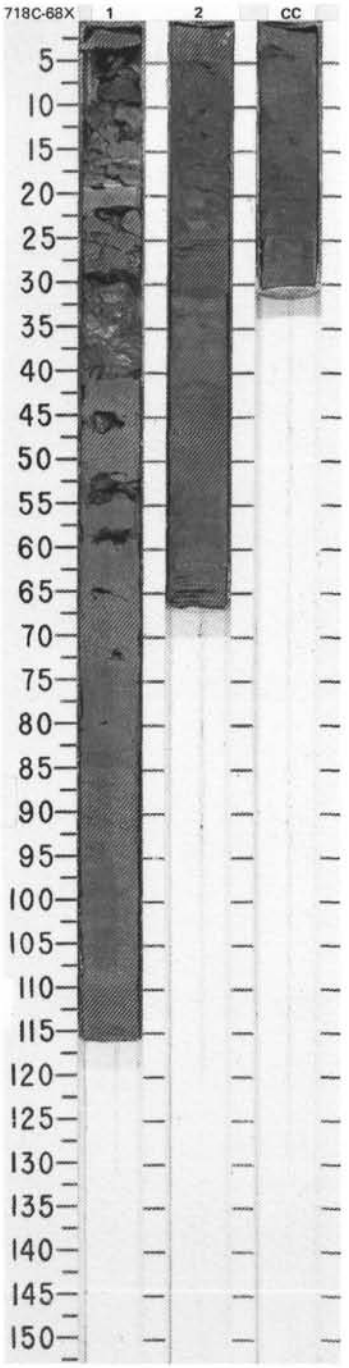
SMEAR SLIDE SUMMARY (%):

	2, 104 D	3, 32 D	3, 97 D
TEXTURE:			
Silt	25	85	—
Clay	75	15	100
COMPOSITION:			
Access. minerals	2	3	Tr
Clay	50	8	96
Feldspar	—	7	—
Garnet	—	Tr	—
Volcanic glass	—	Tr	—
Mica	3	Tr	Tr
Micrite	25	4	4
Opaques	—	Tr	—
Quartz	20	78	—
Zircon	—	Tr	—



SITE 718 HOLE C CORE 68X CORED INTERVAL 5376.0-5385.5 mbsl; 645.8-655.3 mbsf



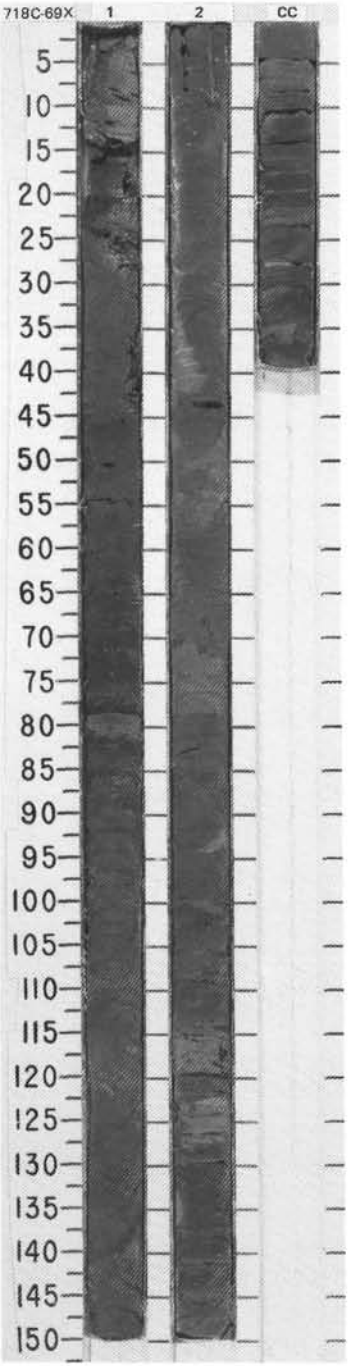


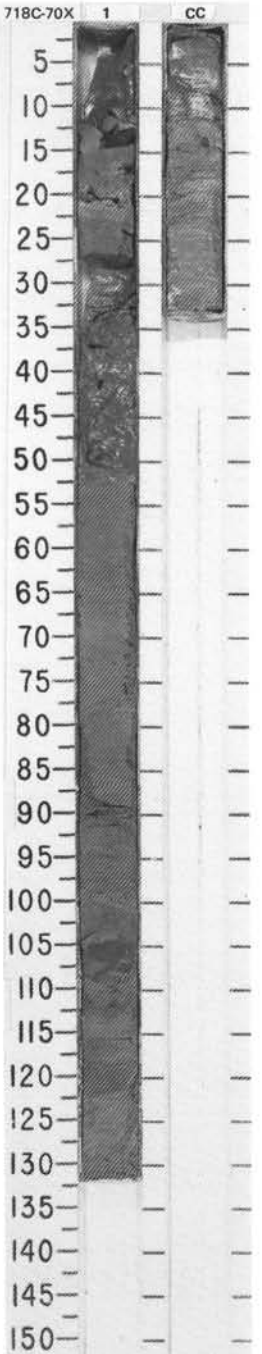
SITE 718 HOLE C CORE 69X CORED INTERVAL 5385.5-5395.0 mbsl; 655.3-664.8 mbsf

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
	Barren	Barren	Barren	Barren				1	0.5, 1.0					SILT and MUD Major lithology: Dark gray (5Y 4/1) silt and/or clayey silt, grading up to silty clay and clay, forms upward-fining beds ranging in thickness from 20-105 cm.
	Barren	Barren	Barren	Barren	φ=39.13 γ=2.15 V=1.70 φ=35.70 γ=2.23 V=1.84	φ=38.17 γ=2.17 V=1.73	δ=.33	2 CC						

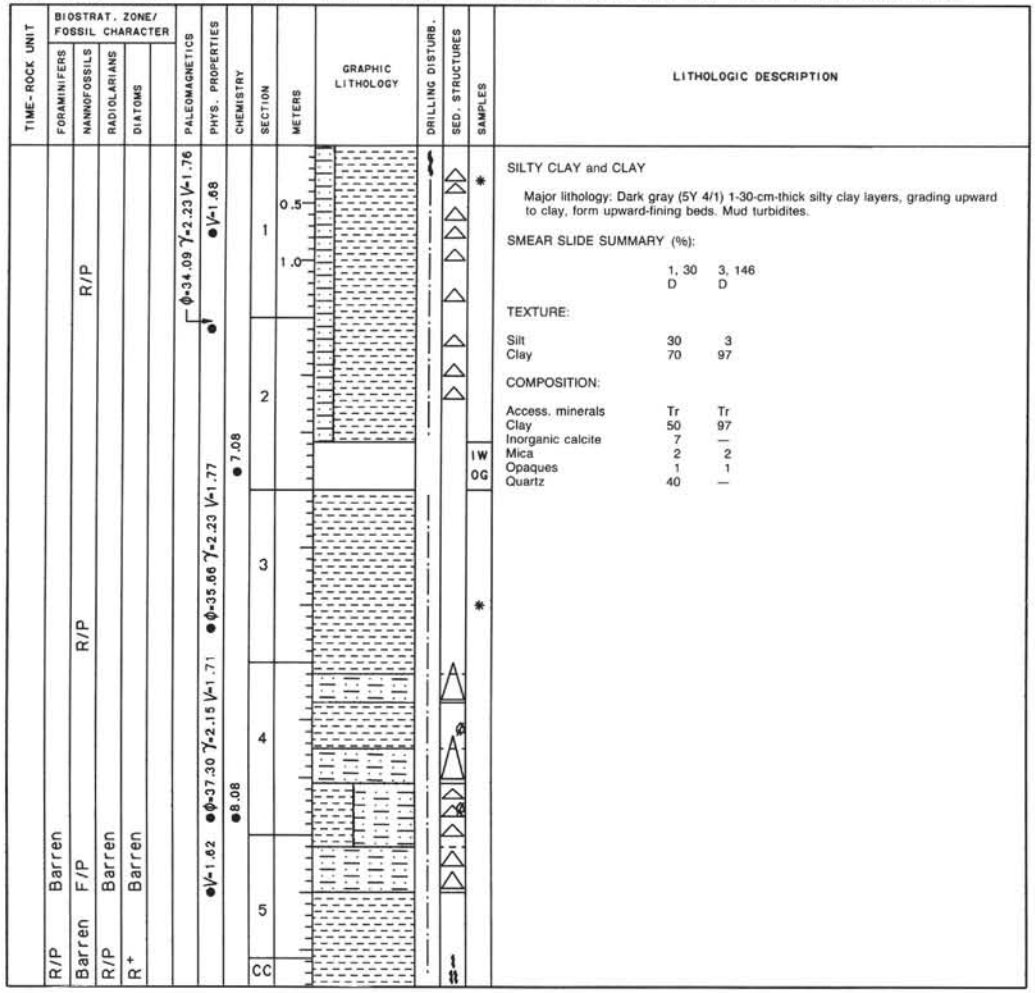
SITE 718 HOLE C CORE 70X CORED INTERVAL 5395.0-5404.5 mbsl; 664.8-674.3 mbsf

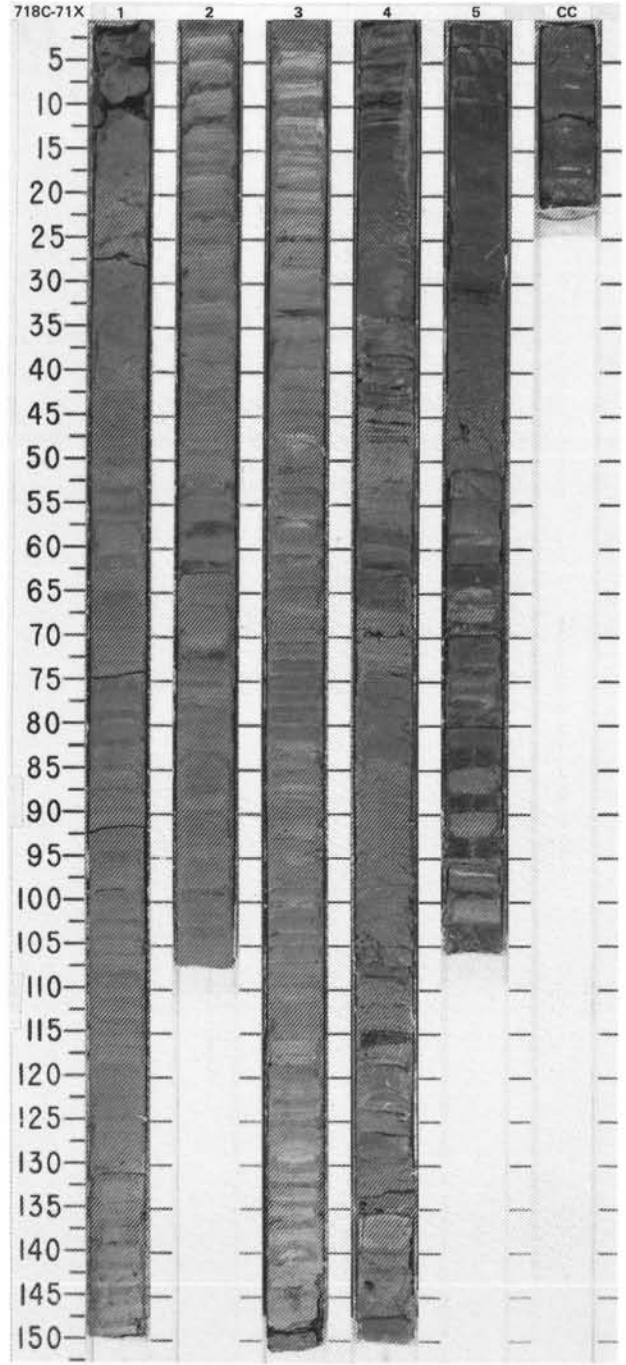
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	Barren	Barren	Barren	Barren		φ=35.50 γ=2.19 V=1.73		1	0.5, 1.0					CLAYEY SILT and CLAY Major lithology: Dark gray (5Y 4/1) clayey silt and/or silty clay, grading upward to clay, forms upward-fining beds. Mud turbidites.
	Barren	R/P	Barren	Barren				CC						



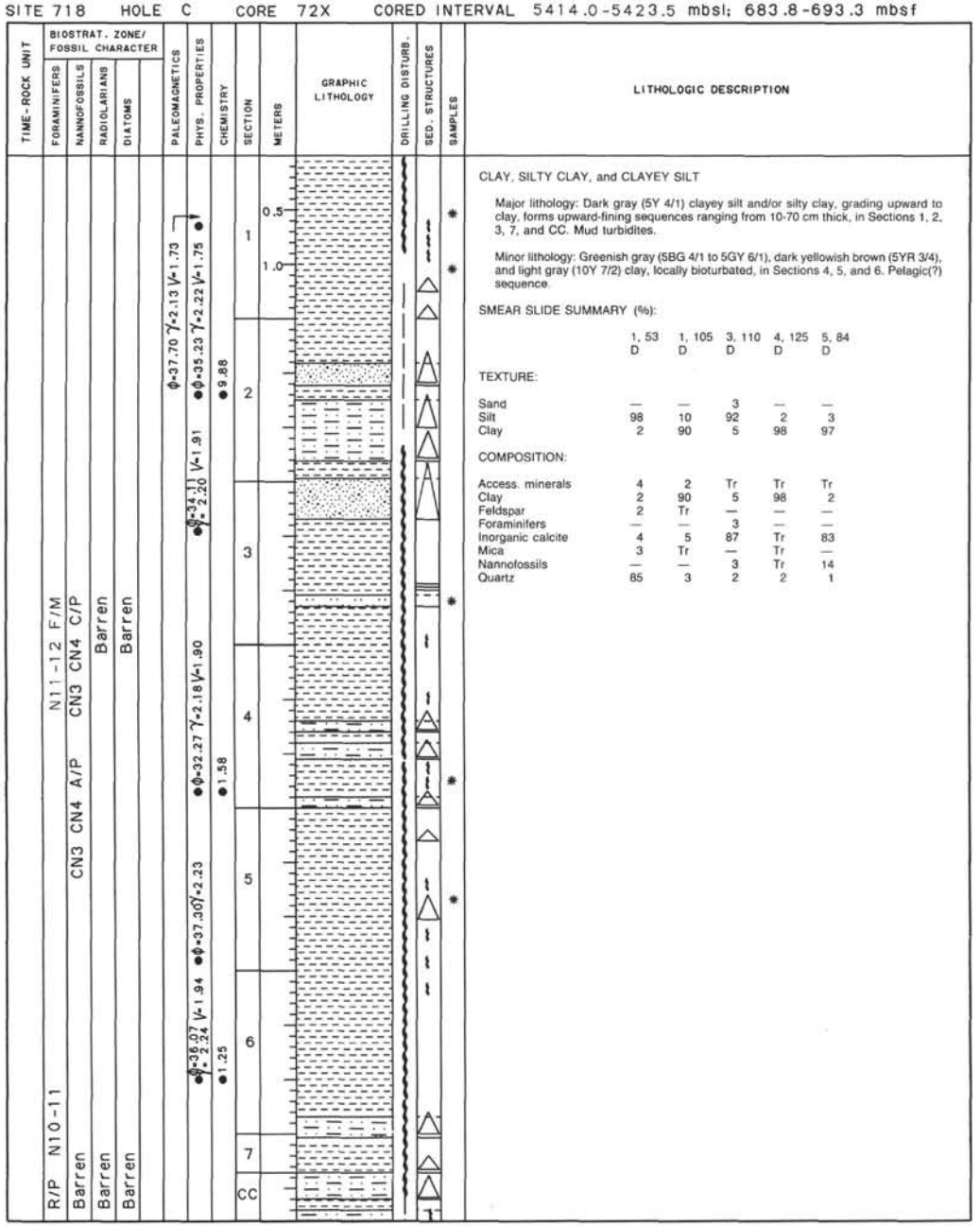


SITE 718 HOLE C CORE 71X CORED INTERVAL 5404.5-5414.0 mbsl; 674.3-683.8 mbsf





SITE 718 HOLE C CORE 72X CORED INTERVAL 5414.0-5423.5 mbsl; 683.8-693.3 mbsf



LITHOLOGIC DESCRIPTION

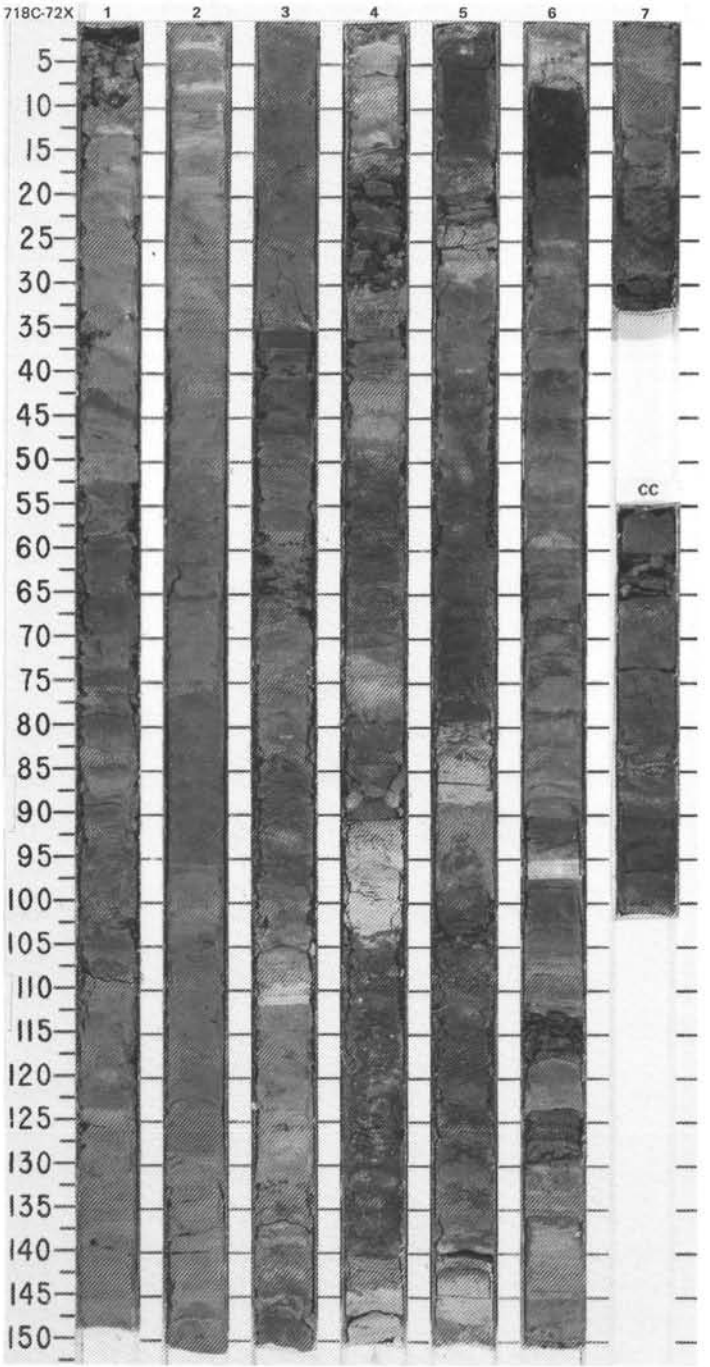
CLAY, SILTY CLAY, and CLAYEY SILT

Major lithology: Dark gray (5Y 4/1) clayey silt and/or silty clay, grading upward to clay, forms upward-fining sequences ranging from 10-70 cm thick, in Sections 1, 2, 3, 7, and CC. Mud turbidites.

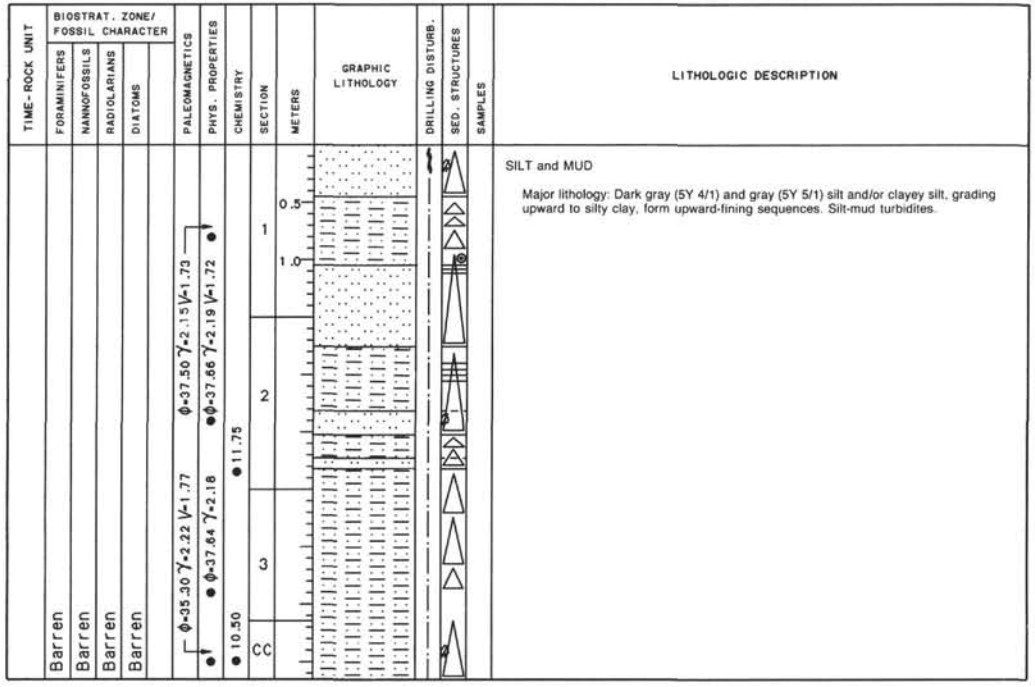
Minor lithology: Greenish gray (5BG 4/1 to 5GY 6/1), dark yellowish brown (5YR 3/4), and light gray (10Y 7/2) clay, locally bioturbated, in Sections 4, 5, and 6. Pelagic(?) sequence.

SMEAR SLIDE SUMMARY (%):

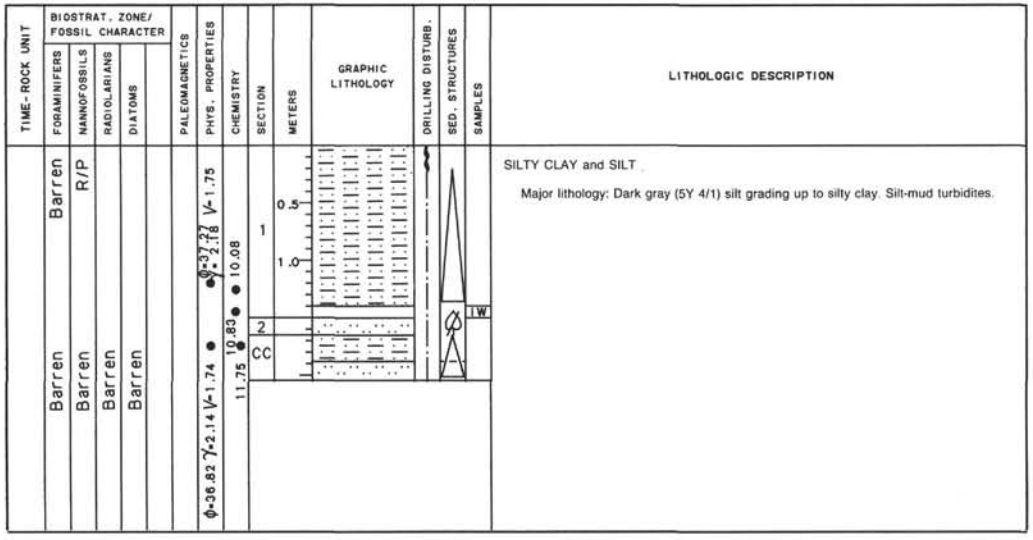
	1, 53 D	1, 105 D	3, 110 D	4, 125 D	5, 84 D
TEXTURE:					
Sand	—	—	3	—	—
Silt	98	10	92	2	3
Clay	2	90	5	98	97
COMPOSITION:					
Access. minerals	4	2	Tr	Tr	Tr
Clay	2	90	5	98	2
Feldspar	2	Tr	—	—	—
Foraminifers	—	—	3	—	—
Inorganic calcite	4	5	87	Tr	83
Mica	3	Tr	—	Tr	—
Nannofossils	—	—	3	Tr	14
Quartz	85	3	2	2	1



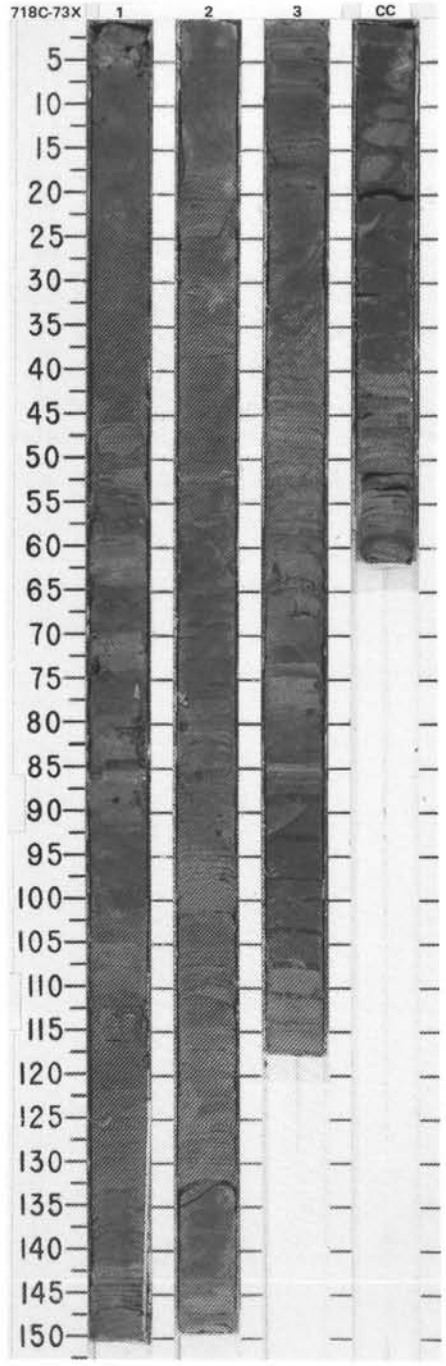
SITE 718 HOLE C CORE 73X CORED INTERVAL 5423.5-5433.0 mbsl; 693.3-702.8 mbsf

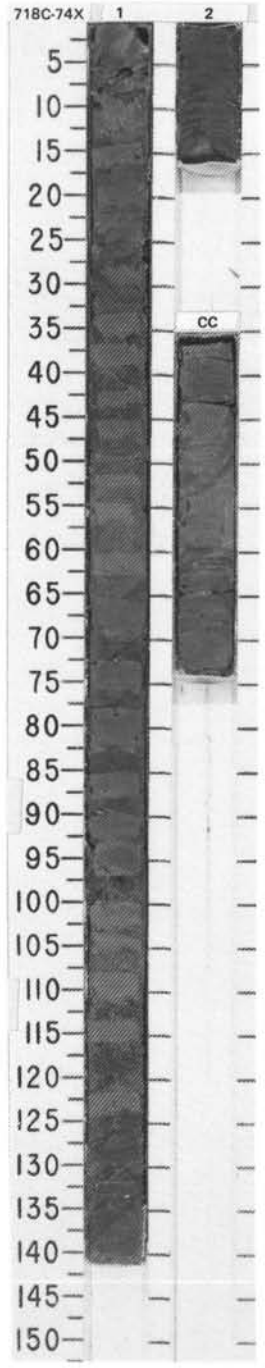


SITE 718 HOLE C CORE 74X CORED INTERVAL 5433.0-5442.5 mbsl; 702.8-712.3 mbsf



CORE 116–718D–75X–NO RECOVERY



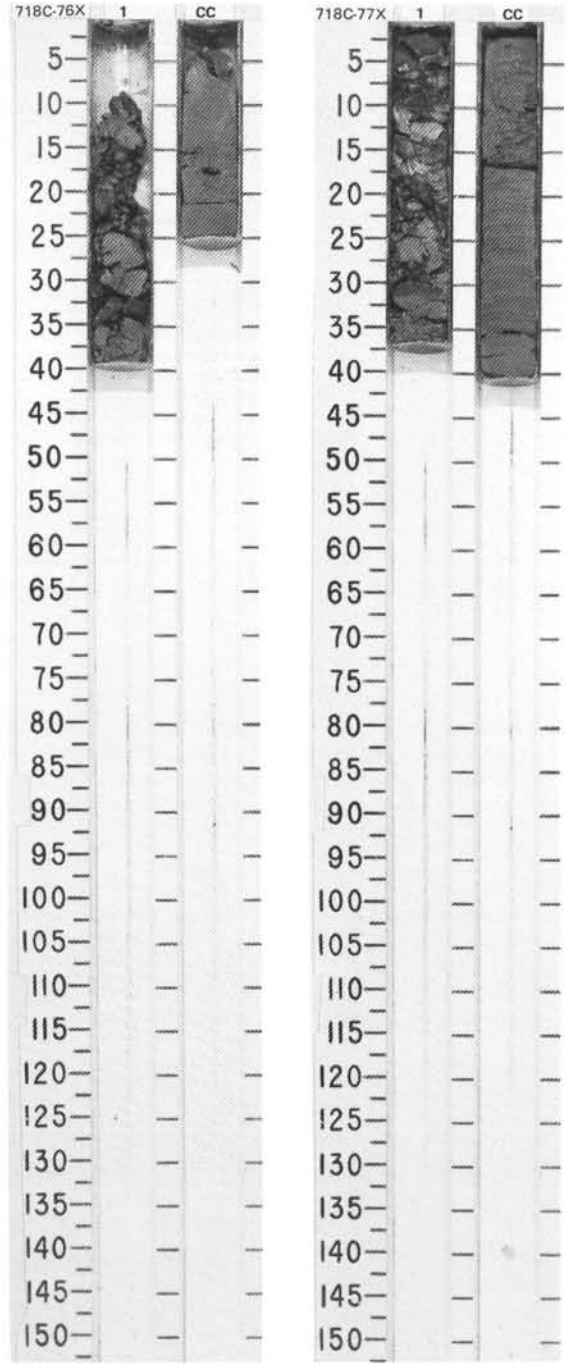


SITE 718 HOLE C CORE 76X CORED INTERVAL 5452.0-5461.5 mbsl; 721.8-731.3 mbsf

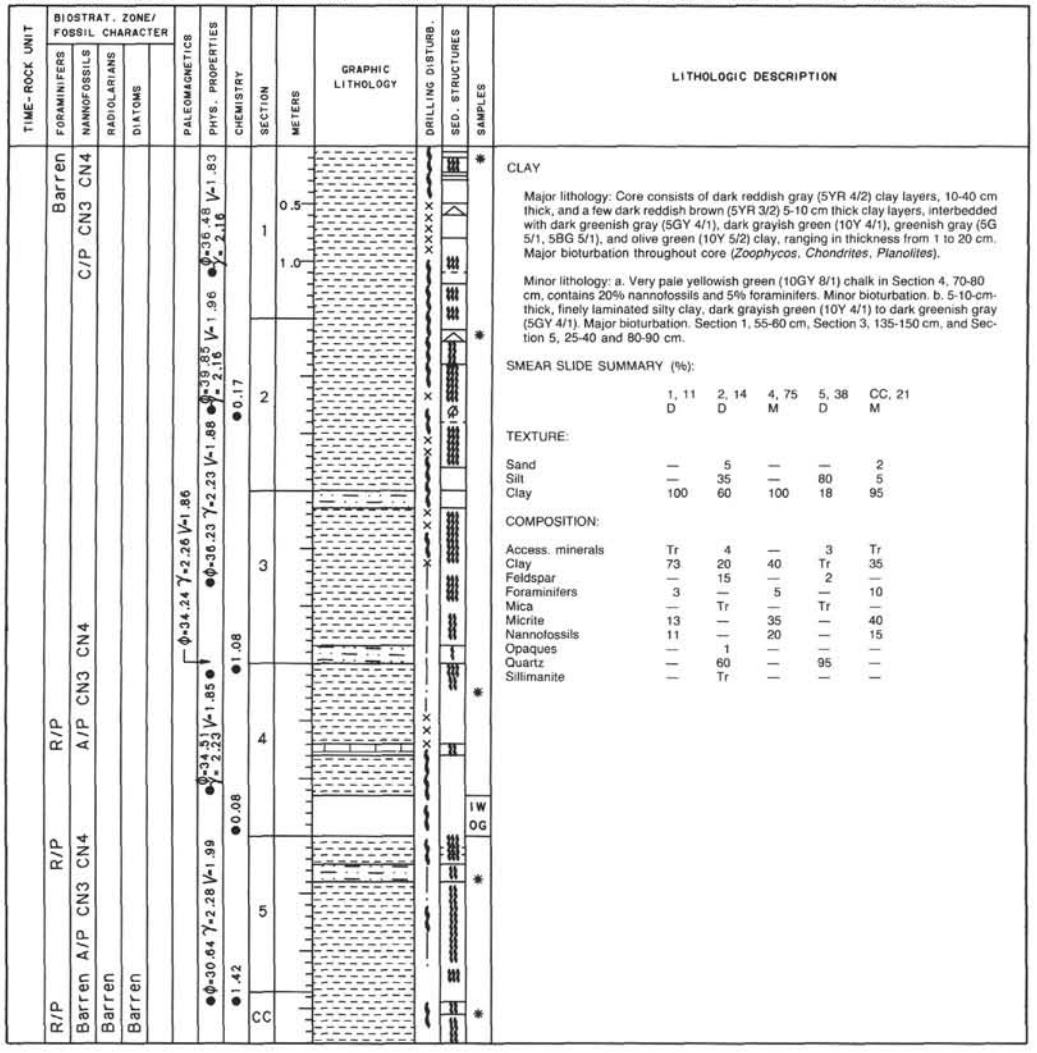
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	Barren	Cavings	Barren	Barren				1			×	△		CLAY and CALCAREOUS CLAYEY SILT
								CC	0.5		×			Major lithology: Mixture of dark gray (5Y 4/1) and greenish gray (5BG 4/1) clay resulting from drilling disturbance in Section 1, 8-33 cm. Upward-grading calcareous clayey silt at base. CC contains laminated calcareous clayey silt, gray (5Y 5/1).
	Barren	R/P	Barren	Barren										2 cc in CC, given to paleontologists.

SITE 718 HOLE C CORE 77X CORED INTERVAL 5461.5-5471.0 mbsl; 731.3-740.8 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
	Barren	Barren	Barren	Barren				1			×			CLAY and CLAYEY SILT
								CC	0.5		×			Major lithology: Mixture, due to drilling disturbance, of clay pebbles of various colors, from gray to grayish green and brown, in Section 1. 4 cm layer of calcareous and micaceous clayey silt, dark gray (5Y 4/1), at base. In CC, dark gray (5Y 4/1) micaceous-calcareous clayey silt, with numerous scattered pieces of fine plant(?) debris.
	Barren	Barren	Barren	Barren										



SITE 718 HOLE C CORE 78X CORED INTERVAL 5471.0-5480.5 mbsl; 740.8-750.3 mbsf



LITHOLOGIC DESCRIPTION

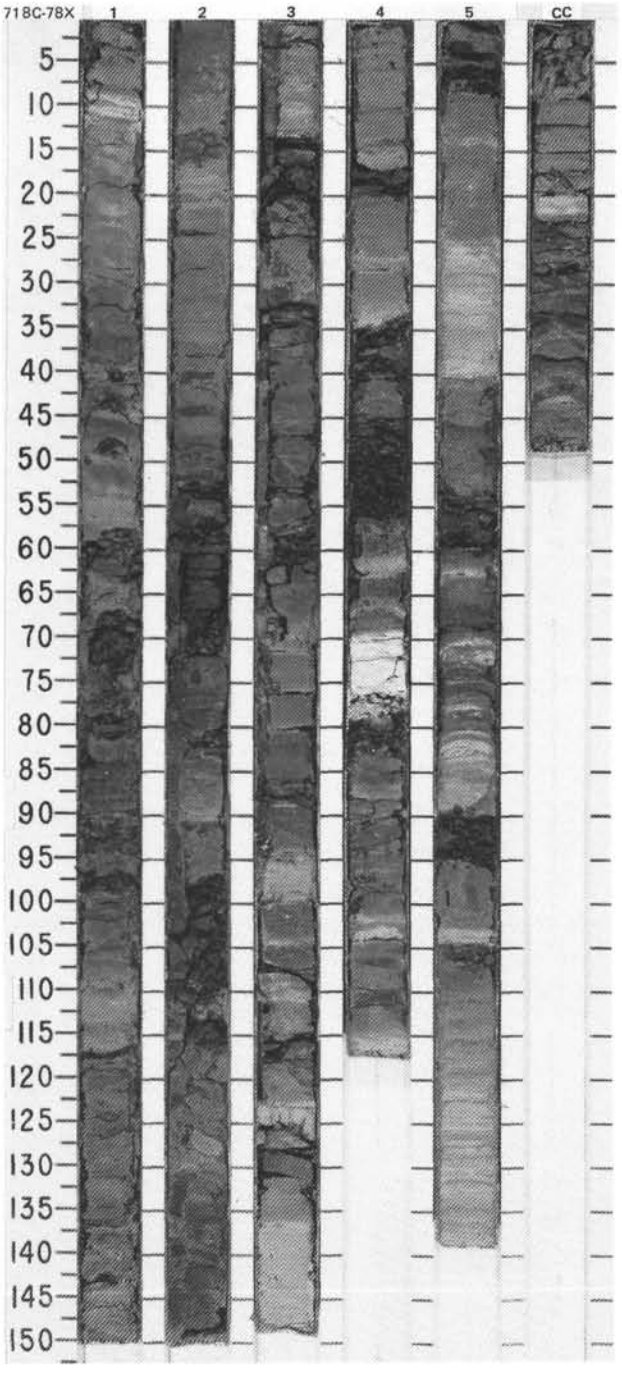
CLAY

Major lithology: Core consists of dark reddish gray (5YR 4/2) clay layers, 10-40 cm thick, and a few dark reddish brown (5YR 3/2) 5-10 cm thick clay layers, interbedded with dark greenish gray (5GY 4/1), dark grayish green (10Y 4/1), greenish gray (5G 5/1, 5BG 5/1), and olive green (10Y 5/2) clay, ranging in thickness from 1 to 20 cm. Major bioturbation throughout core (*Zoophycos*, *Chondrites*, *Planolites*).

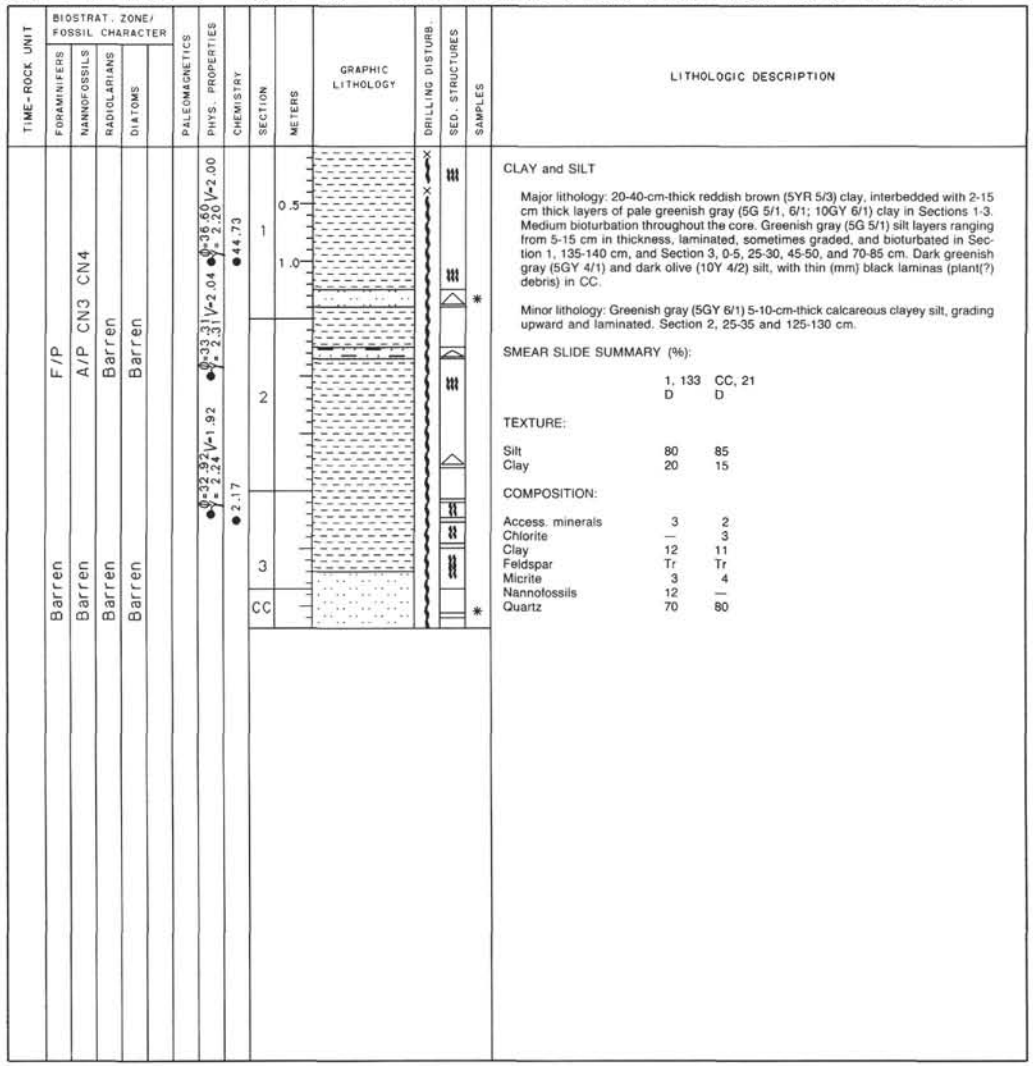
Minor lithology: a. Very pale yellowish green (10GY 8/1) chalk in Section 4, 70-80 cm, contains 20% nannofossils and 5% foraminifers. Minor bioturbation. b. 5-10-cm-thick, finely laminated silty clay, dark grayish green (10Y 4/1) to dark greenish gray (5GY 4/1). Major bioturbation. Section 1, 55-60 cm, Section 3, 135-150 cm, and Section 5, 25-40 and 80-90 cm.

SMEAR SLIDE SUMMARY (%):

	1, 11 D	2, 14 D	4, 75 M	5, 38 D	CC, 21 M
TEXTURE:					
Sand	—	5	—	—	2
Silt	—	35	—	80	5
Clay	100	60	100	18	95
COMPOSITION:					
Access. minerals	Tr	4	—	3	Tr
Clay	73	20	40	Tr	35
Feldspar	—	15	—	2	—
Foraminifers	3	—	5	—	10
Mica	—	Tr	—	Tr	—
Micrite	13	—	35	—	40
Nannofossils	11	—	20	—	15
Opaques	—	1	—	—	—
Quartz	—	60	—	95	—
Sillimanite	—	Tr	—	—	—



SITE 718 HOLE C CORE 79X CORED INTERVAL 5480.5-5490.0 mbsl; 750.3-759.8 mbsf



LITHOLOGIC DESCRIPTION

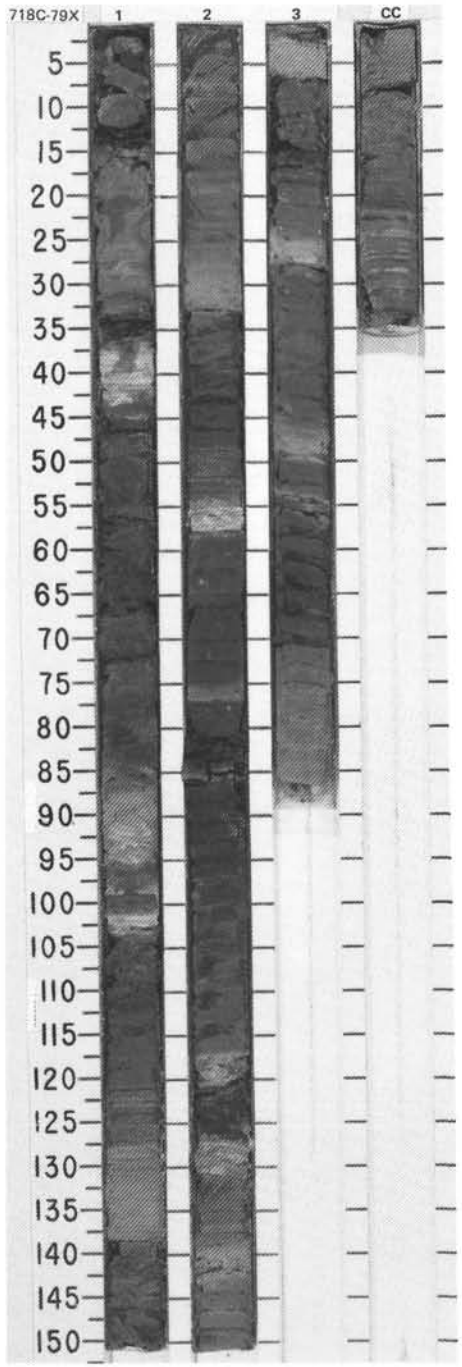
CLAY and SILT

Major lithology: 20-40-cm-thick reddish brown (5YR 5/3) clay, interbedded with 2-15 cm thick layers of pale greenish gray (5G 5/1, 6/1; 10GY 6/1) clay in Sections 1-3. Medium bioturbation throughout the core. Greenish gray (5G 5/1) silt layers ranging from 5-15 cm in thickness, laminated, sometimes graded, and bioturbated in Section 1, 135-140 cm, and Section 3, 0-5, 25-30, 45-50, and 70-85 cm. Dark greenish gray (5GY 4/1) and dark olive (10Y 4/2) silt, with thin (mm) black laminas (plant(?) debris) in CC.

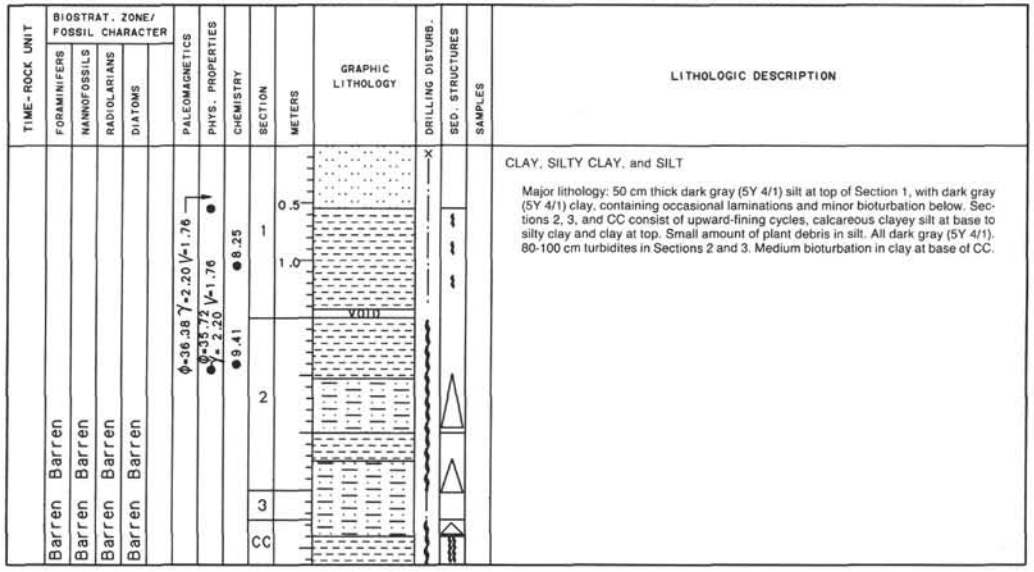
Minor lithology: Greenish gray (5GY 6/1) 5-10-cm-thick calcareous clayey silt, grading upward and laminated. Section 2, 25-35 and 125-130 cm.

SMEAR SLIDE SUMMARY (%):

	1, 133 D	CC, 21 D
TEXTURE:		
Silt	80	85
Clay	20	15
COMPOSITION:		
Access. minerals	3	2
Chlorite	—	3
Clay	12	11
Feldspar	Tr	Tr
Micrite	3	4
Nannofossils	12	—
Quartz	70	80



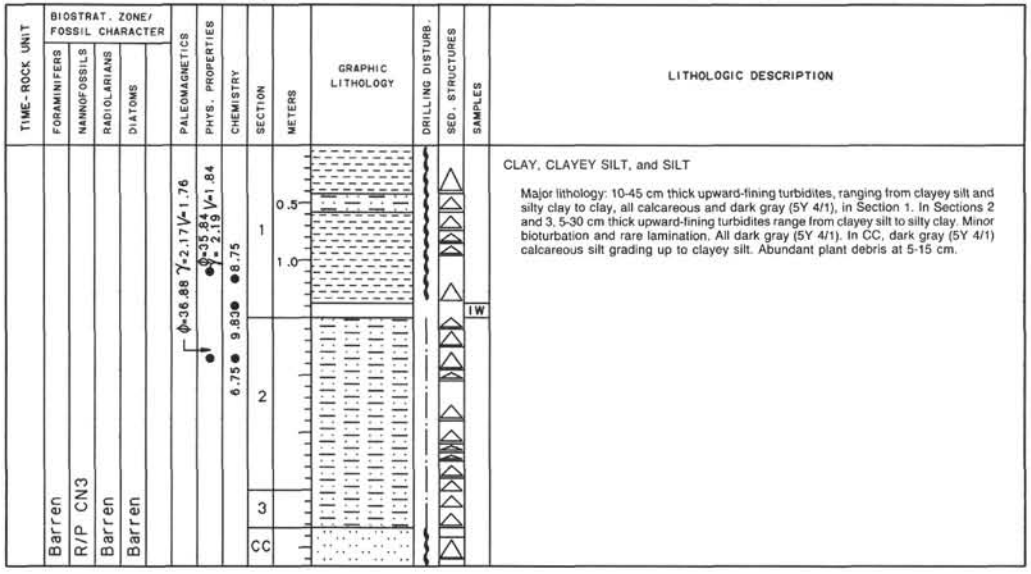
SITE 718 HOLE C CORE 80X CORED INTERVAL 5490.0-5499.5 mbsl; 759.8-769.3 mbsf



CLAY, SILTY CLAY, and SILT

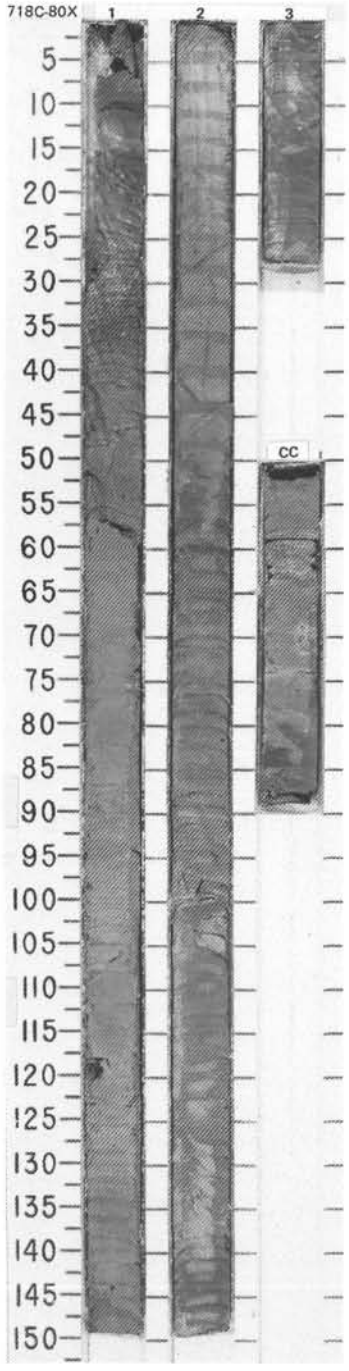
Major lithology: 50 cm thick dark gray (5Y 4/1) silt at top of Section 1, with dark gray (5Y 4/1) clay, containing occasional laminations and minor bioturbation below. Sections 2, 3, and CC consist of upward-fining cycles, calcareous clayey silt at base to silty clay and clay at top. Small amount of plant debris in silt. All dark gray (5Y 4/1). 80-100 cm turbidites in Sections 2 and 3. Medium bioturbation in clay at base of CC.

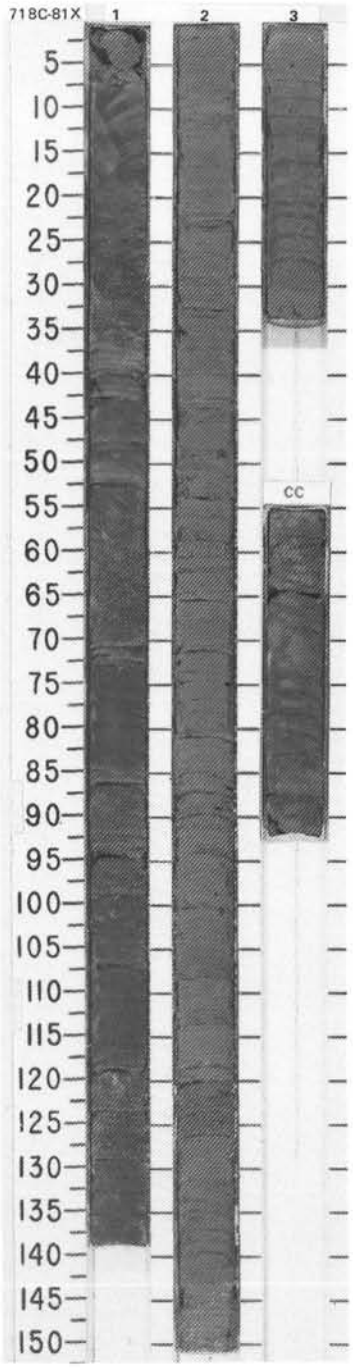
SITE 718 HOLE C CORE 81X CORED INTERVAL 5499.5-5509.0 mbsl; 769.3-778.8 mbsf



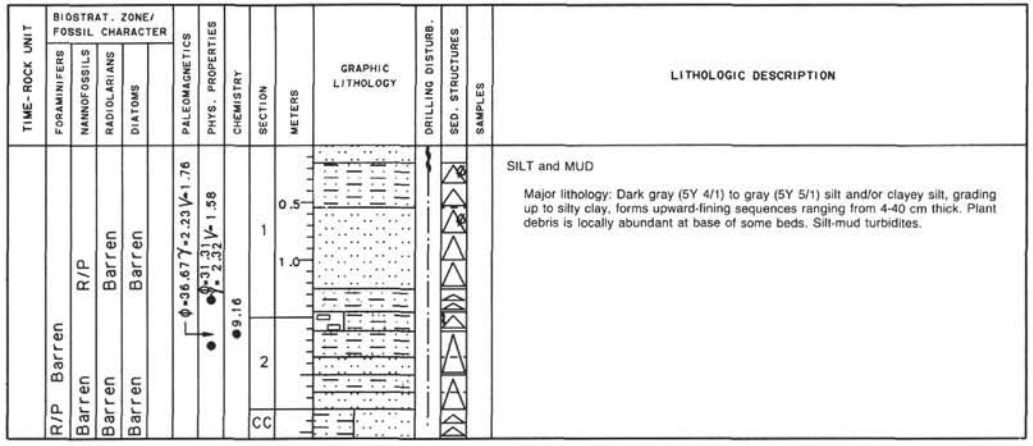
CLAY, CLAYEY SILT, and SILT

Major lithology: 10-45 cm thick upward-fining turbidites, ranging from clayey silt and silty clay to clay, all calcareous and dark gray (5Y 4/1), in Section 1. In Sections 2 and 3, 5-30 cm thick upward-fining turbidites range from clayey silt to silty clay. Minor bioturbation and rare lamination. All dark gray (5Y 4/1). In CC, dark gray (5Y 4/1) calcareous silt grading up to clayey silt. Abundant plant debris at 5-15 cm.





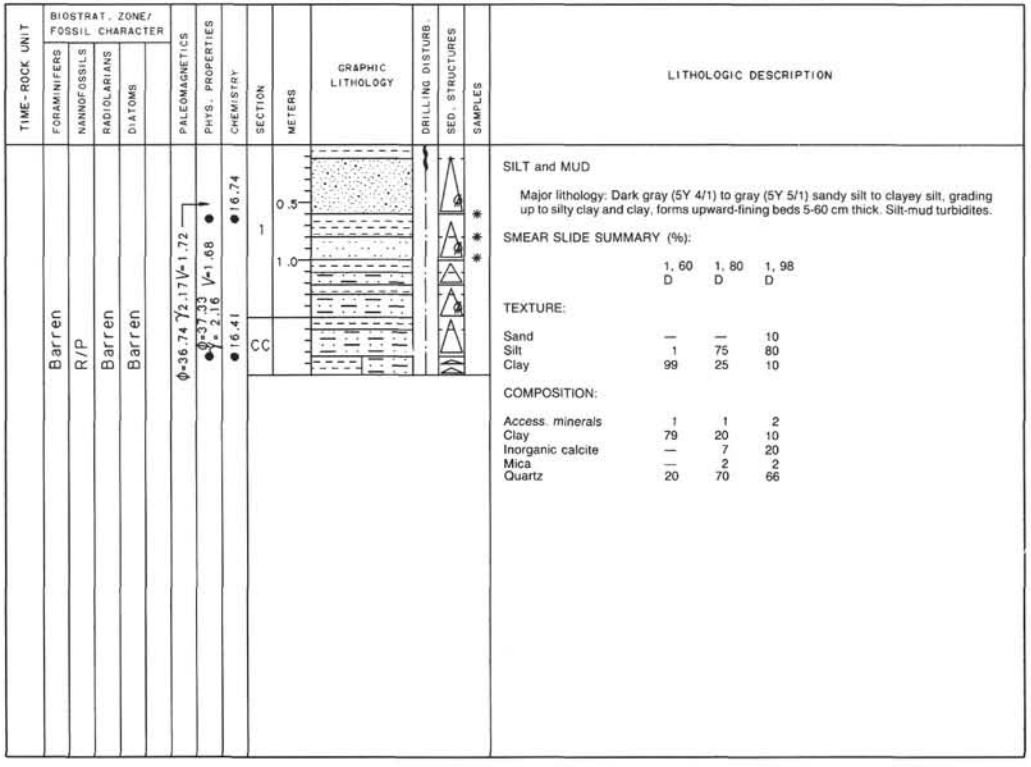
SITE 718 HOLE C CORE 82X CORED INTERVAL 5509.0-5518.5 mbsl; 778.8-788.3 mbsf



SILT and MUD

Major lithology: Dark gray (5Y 4/1) to gray (5Y 5/1) silt and/or clayey silt, grading up to silty clay, forms upward-fining sequences ranging from 4-40 cm thick. Plant debris is locally abundant at base of some beds. Silt-mud turbidites.

SITE 718 HOLE C CORE 83X CORED INTERVAL 5518.5-5528.0 mbsl; 788.3-797.8 mbsf

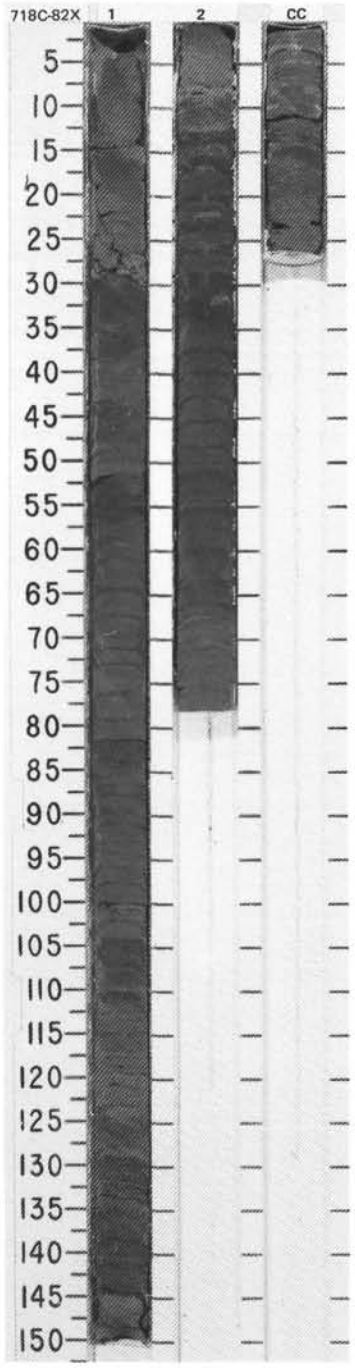


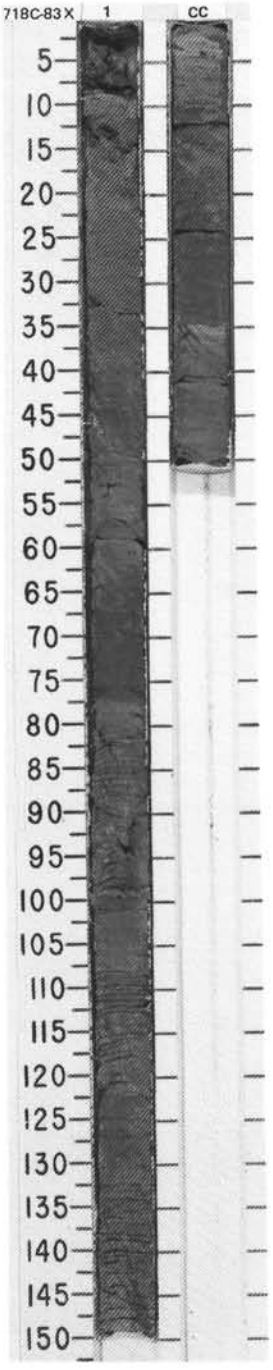
SILT and MUD

Major lithology: Dark gray (5Y 4/1) to gray (5Y 5/1) sandy silt to clayey silt, grading up to silty clay and clay, forms upward-fining beds 5-60 cm thick. Silt-mud turbidites.

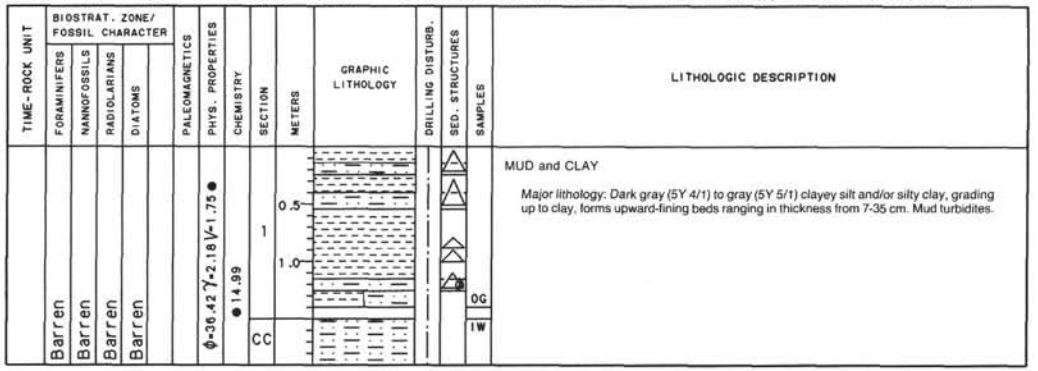
SMEAR SLIDE SUMMARY (%):

	1, 60 D	1, 80 D	1, 98 D
TEXTURE:			
Sand	—	—	10
Silt	1	75	80
Clay	99	25	10
COMPOSITION:			
Access. minerals	1	1	2
Clay	79	20	10
Inorganic calcite	—	7	20
Mica	—	2	2
Quartz	20	70	66

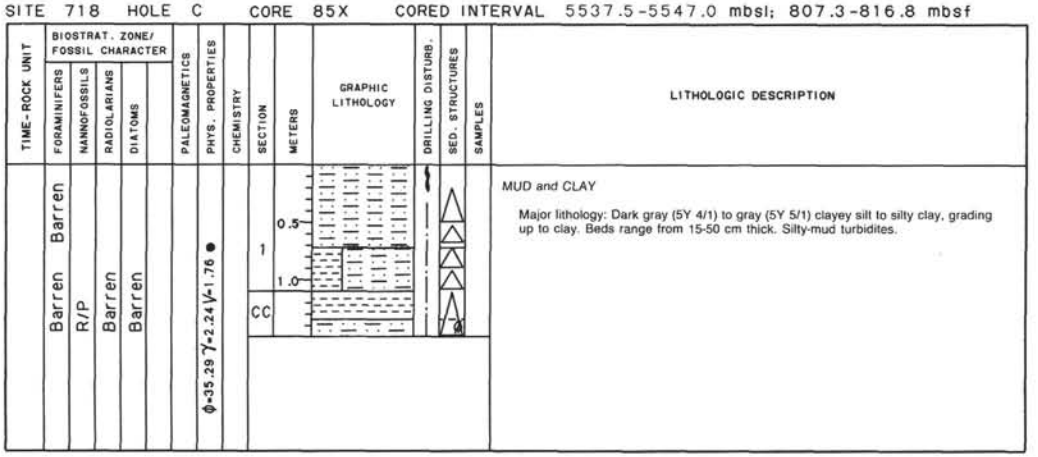


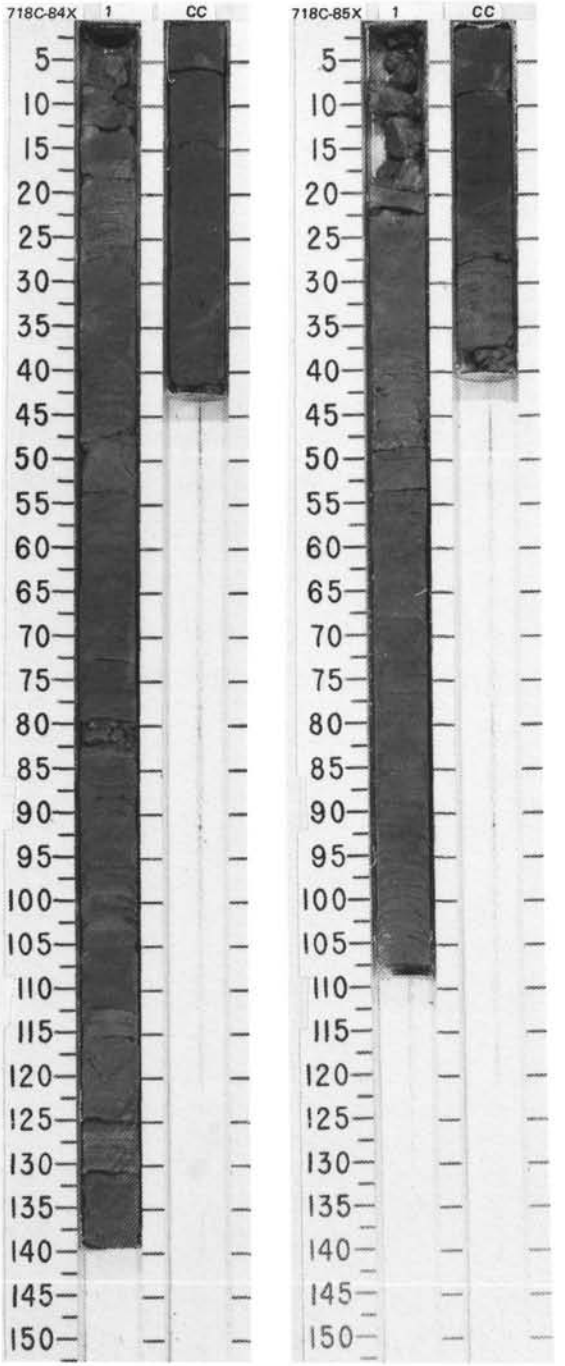


SITE 718 HOLE C CORE 84X CORED INTERVAL 5528.0-5537.5 mbsl; 797.8-807.3 mbsf

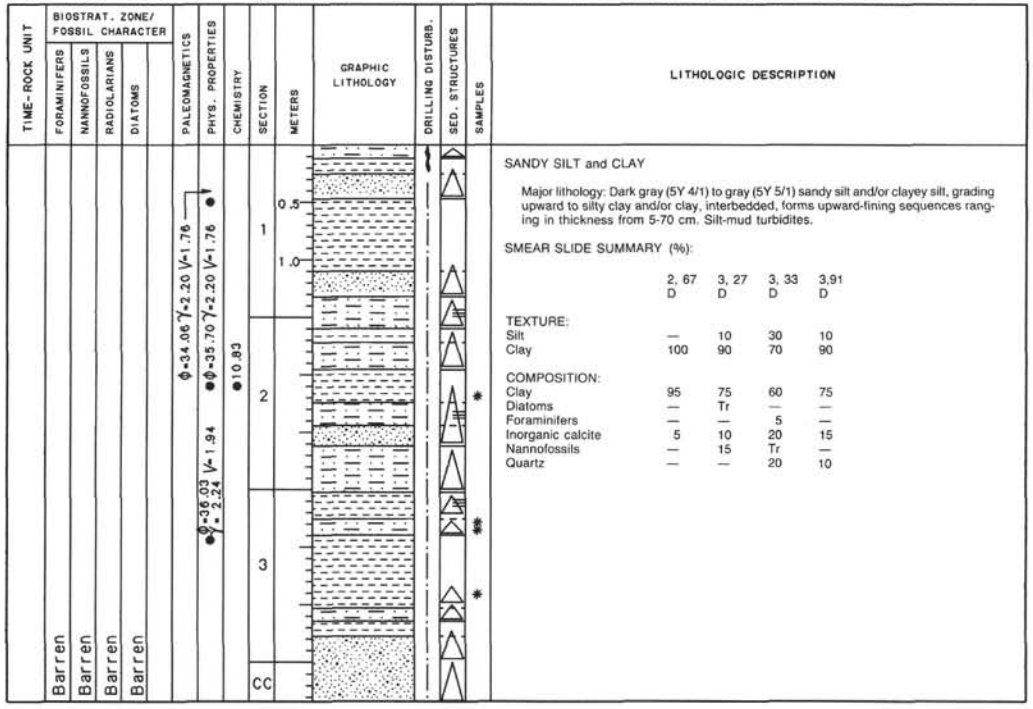


SITE 718 HOLE C CORE 85X CORED INTERVAL 5537.5-5547.0 mbsl; 807.3-816.8 mbsf





SITE 718 HOLE C CORE 86X CORED INTERVAL 5547.0-5556.5 mbsl; 816.8-826.3 mbsf



LITHOLOGIC DESCRIPTION

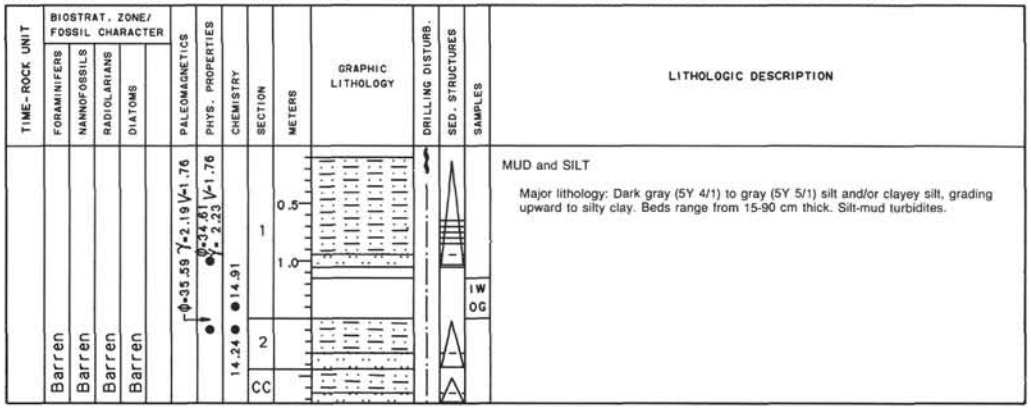
SANDY SILT and CLAY

Major lithology: Dark gray (5Y 4/1) to gray (5Y 5/1) sandy silt and/or clayey silt, grading upward to silty clay and/or clay, interbedded, forms upward-fining sequences ranging in thickness from 5-70 cm. Silt-mud turbidites.

SMEAR SLIDE SUMMARY (%):

	2, 67 D	3, 27 D	3, 33 D	3,91 D
TEXTURE:				
Silt	—	10	30	10
Clay	100	90	70	90
COMPOSITION:				
Clay	95	75	60	75
Diatoms	—	Tr	—	—
Foraminifers	—	—	5	—
Inorganic calcite	5	10	20	15
Nannofossils	—	15	Tr	—
Quartz	—	—	20	10

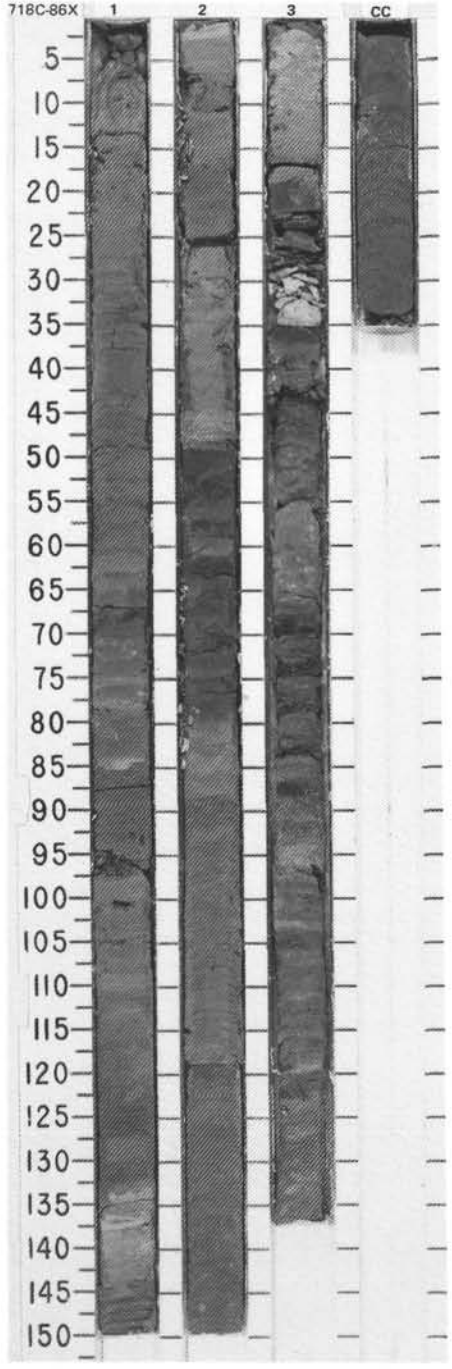
SITE 718 HOLE C CORE 87X CORED INTERVAL 5556.5-5566.0 mbsl; 826.3-835.8 mbsf

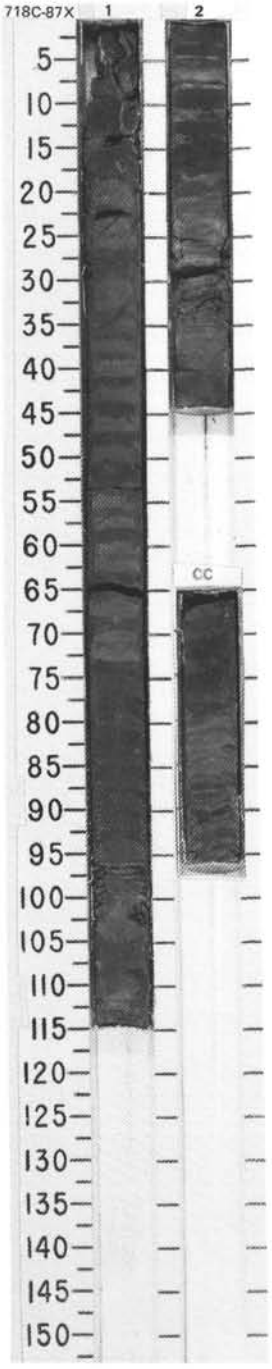


LITHOLOGIC DESCRIPTION

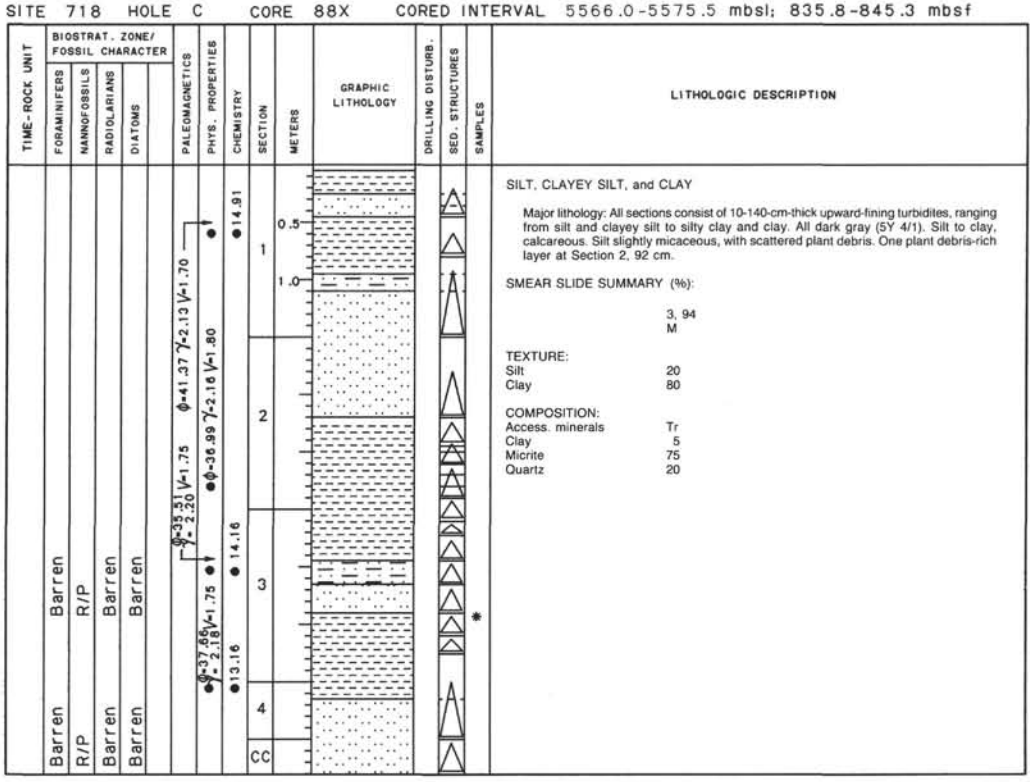
MUD and SILT

Major lithology: Dark gray (5Y 4/1) to gray (5Y 5/1) silt and/or clayey silt, grading upward to silty clay. Beds range from 15-90 cm thick. Silt-mud turbidites.





SITE 718 HOLE C CORE 88X CORED INTERVAL 5566.0-5575.5 mbsl; 835.8-845.3 mbsf



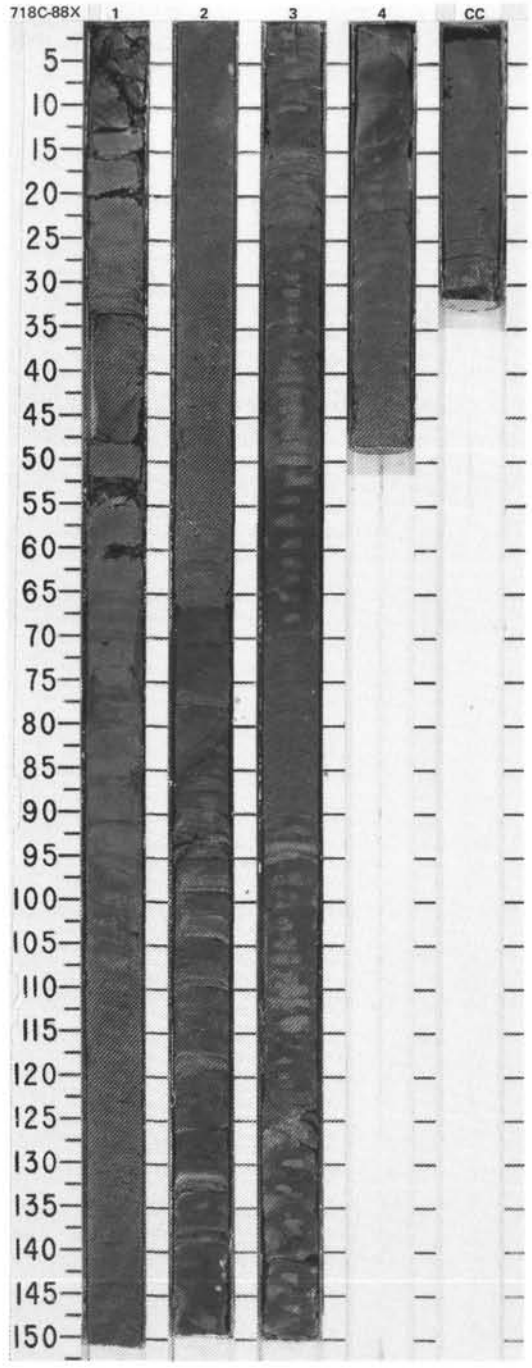
LITHOLOGIC DESCRIPTION

SILT, CLAYEY SILT, and CLAY

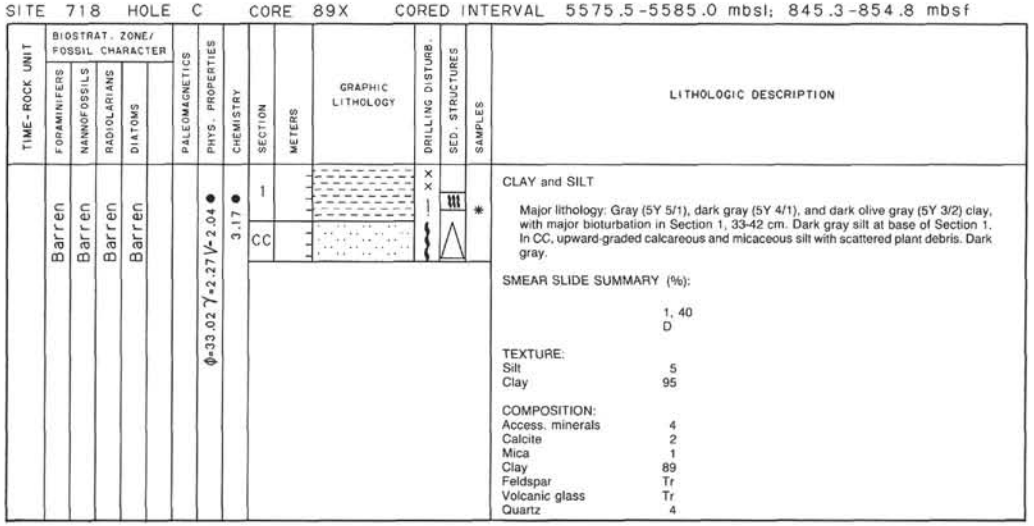
Major lithology: All sections consist of 10-140-cm-thick upward-fining turbidites, ranging from silt and clayey silt to silty clay and clay. All dark gray (5Y 4/1). Silt to clay, calcareous. Silt slightly micaceous, with scattered plant debris. One plant debris-rich layer at Section 2, 92 cm.

SMEAR SLIDE SUMMARY (%):

	3, 94
	M
TEXTURE:	
Silt	20
Clay	80
COMPOSITION:	
Access. minerals	Tr
Clay	5
Micrite	75
Quartz	20



SITE 718 HOLE C CORE 89X CORED INTERVAL 5575.5-5585.0 mbsl; 845.3-854.8 mbsf



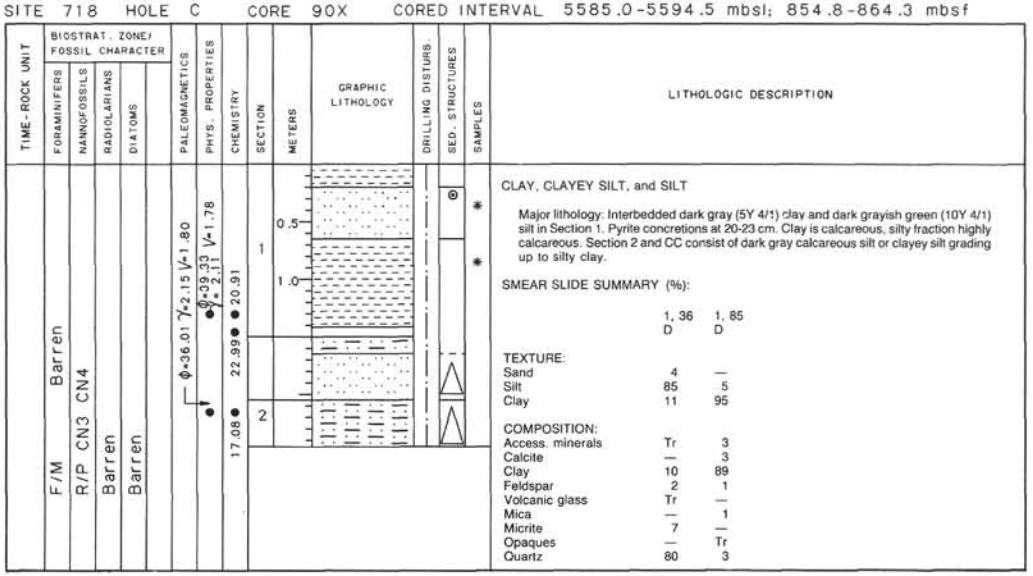
CLAY and SILT

Major lithology: Gray (5Y 5/1), dark gray (5Y 4/1), and dark olive gray (5Y 3/2) clay, with major bioturbation in Section 1, 33-42 cm. Dark gray silt at base of Section 1. In CC, upward-graded calcareous and micaceous silt with scattered plant debris. Dark gray.

SMEAR SLIDE SUMMARY (%):

	1, 40
	D
TEXTURE:	
Silt	5
Clay	95
COMPOSITION:	
Access. minerals	4
Calcite	2
Mica	1
Clay	89
Feldspar	Tr
Volcanic glass	Tr
Quartz	4

SITE 718 HOLE C CORE 90X CORED INTERVAL 5585.0-5594.5 mbsl; 854.8-864.3 mbsf

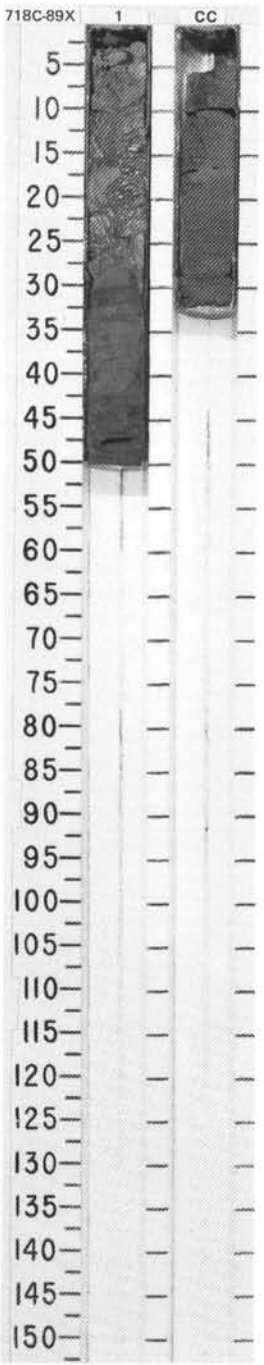


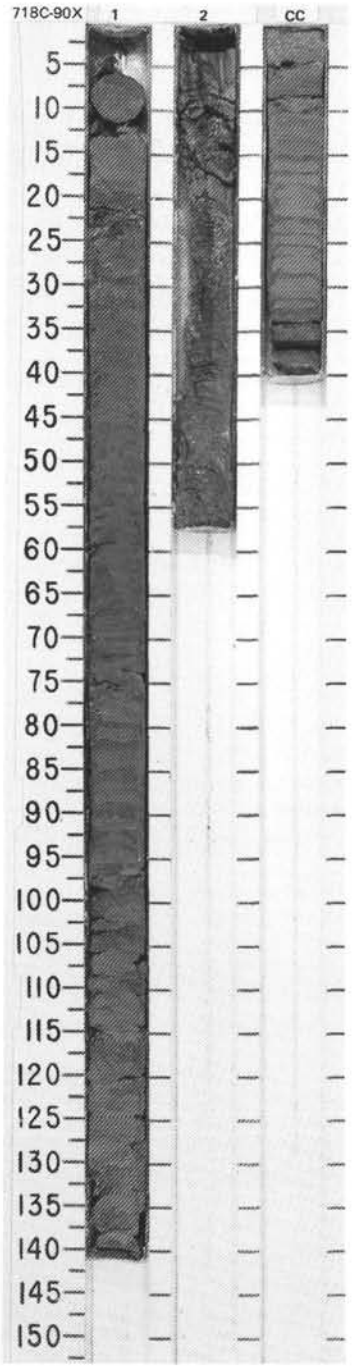
CLAY, CLAYEY SILT, and SILT

Major lithology: Interbedded dark gray (5Y 4/1) clay and dark grayish green (10Y 4/1) silt in Section 1. Pyrite concretions at 20-23 cm. Clay is calcareous, silty fraction highly calcareous. Section 2 and CC consist of dark gray calcareous silt or clayey silt grading up to silty clay.

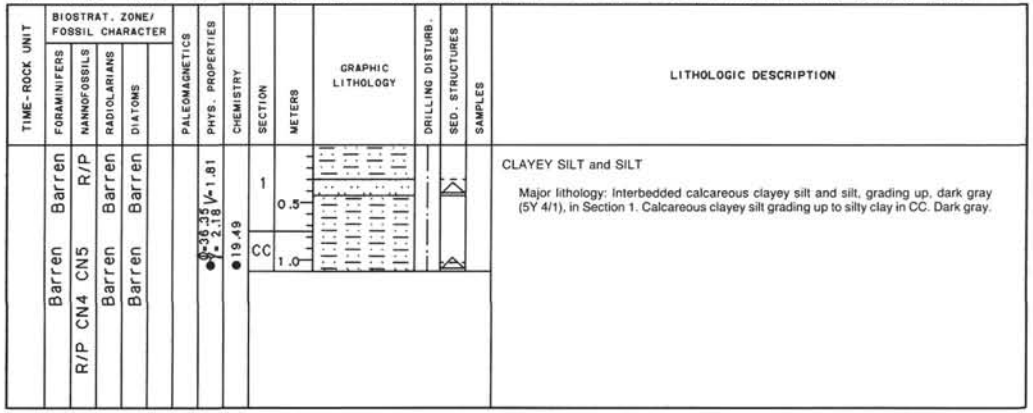
SMEAR SLIDE SUMMARY (%):

	1, 36	1, 85
	D	D
TEXTURE:		
Sand	4	—
Silt	85	5
Clay	11	95
COMPOSITION:		
Access. minerals	Tr	3
Calcite	—	3
Clay	10	89
Feldspar	2	1
Volcanic glass	Tr	—
Mica	—	1
Micrite	7	—
Opaques	—	Tr
Quartz	80	3





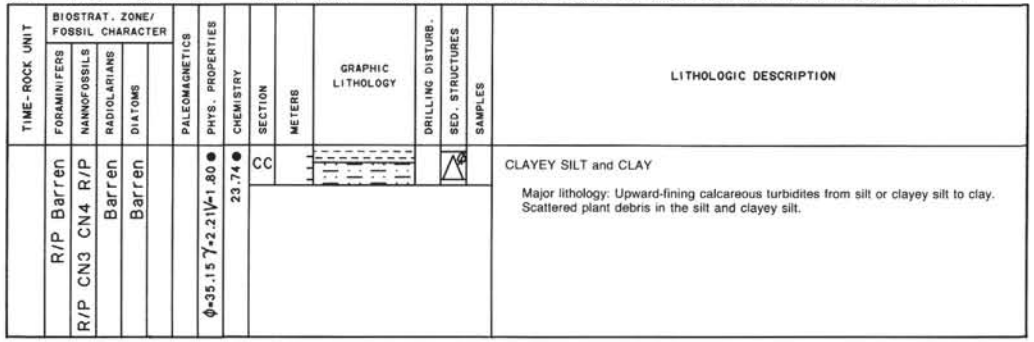
SITE 718 HOLE C CORE 91X CORED INTERVAL 5594.5-5604.0 mbsl; 864.3-873.8 mbsf



CLAYEY SILT and SILT

Major lithology: Interbedded calcareous clayey silt and silt, grading up, dark gray (5Y 4/1), in Section 1. Calcareous clayey silt grading up to silty clay in CC. Dark gray.

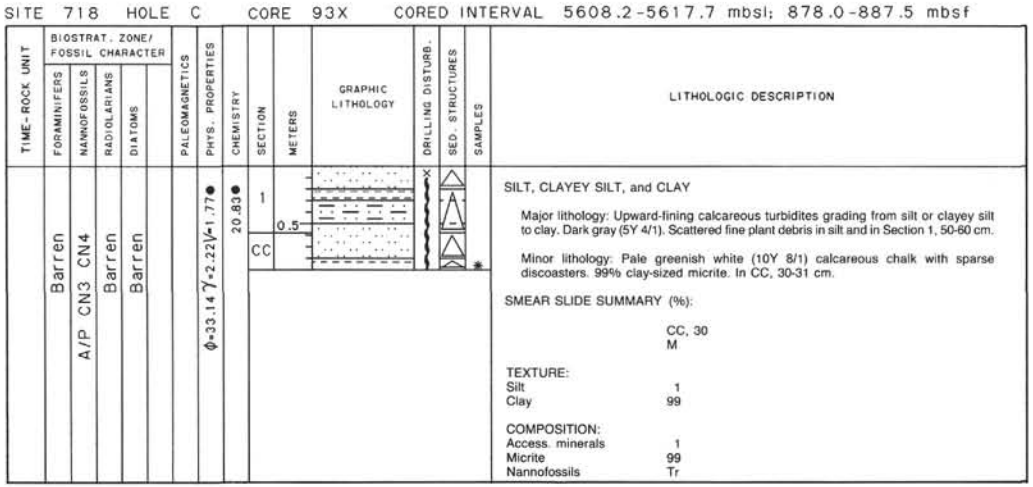
SITE 718 HOLE C CORE 92X CORED INTERVAL 5604.0-5608.2 mbsl; 873.8-878.0 mbsf



CLAYEY SILT and CLAY

Major lithology: Upward-fining calcareous turbidites from silt or clayey silt to clay. Scattered plant debris in the silt and clayey silt.

SITE 718 HOLE C CORE 93X CORED INTERVAL 5608.2-5617.7 mbsl; 878.0-887.5 mbsf



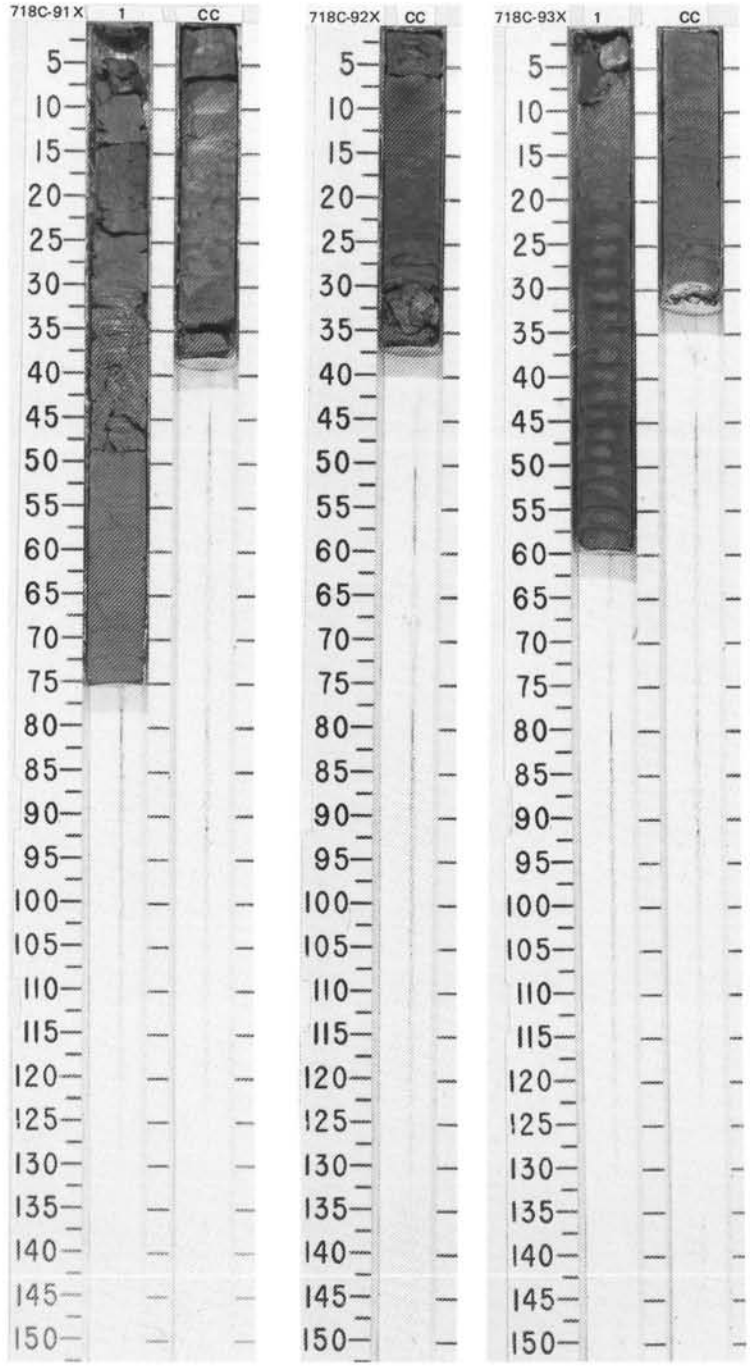
SILT, CLAYEY SILT, and CLAY

Major lithology: Upward-fining calcareous turbidites grading from silt or clayey silt to clay. Dark gray (5Y 4/1). Scattered fine plant debris in silt and in Section 1, 50-60 cm.

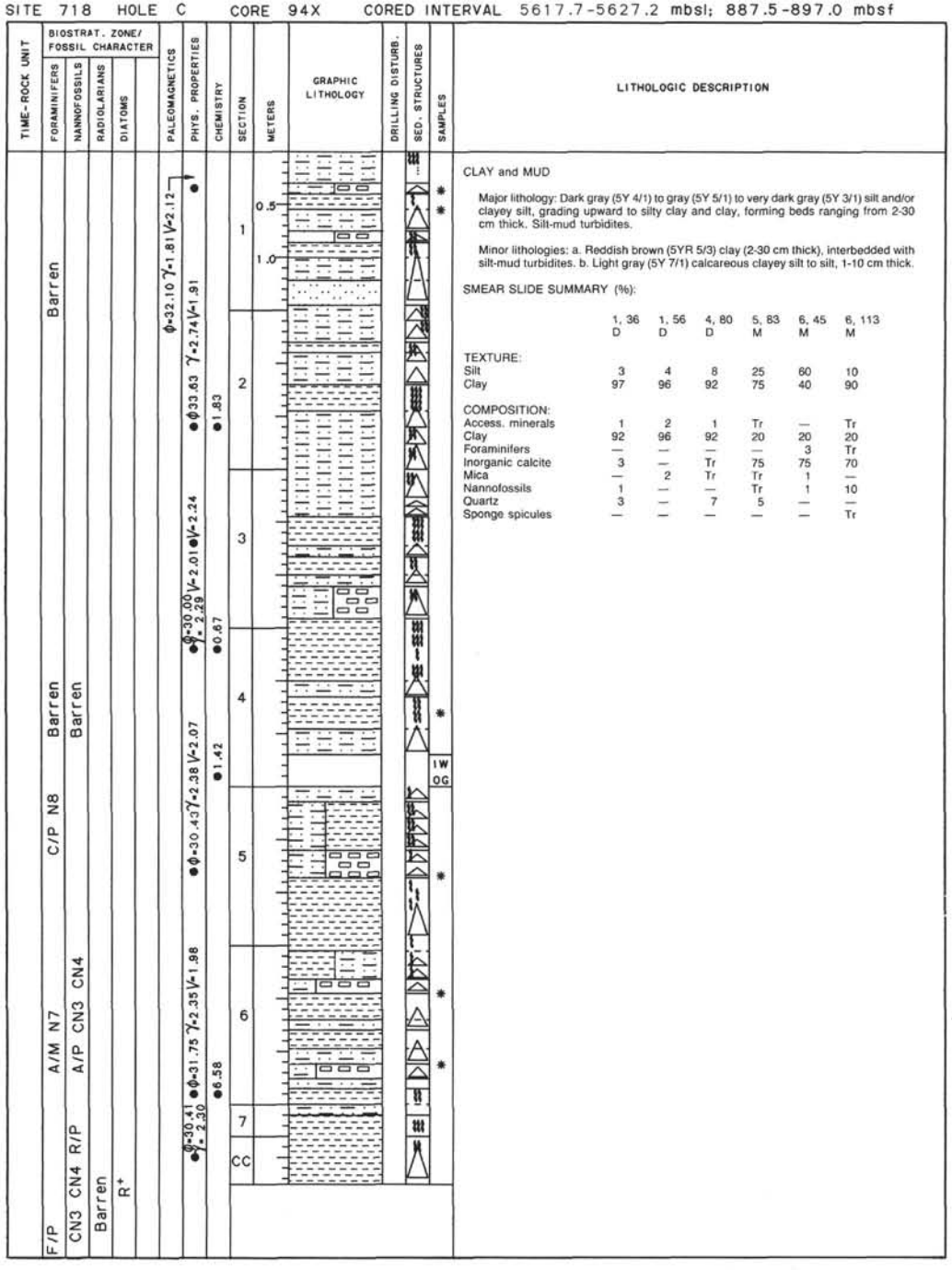
Minor lithology: Pale greenish white (10Y 8/1) calcareous chalk with sparse discoasters. 99% clay-sized micrite. In CC, 30-31 cm.

SMEAR SLIDE SUMMARY (%):

	CC, 30
	M
TEXTURE:	
Silt	1
Clay	99
COMPOSITION:	
Access. minerals	1
Micrite	99
Nannofossils	Tr



SITE 718 HOLE C CORE 94X CORED INTERVAL 5617.7-5627.2 mbsl; 887.5-897.0 mbsf



LITHOLOGIC DESCRIPTION

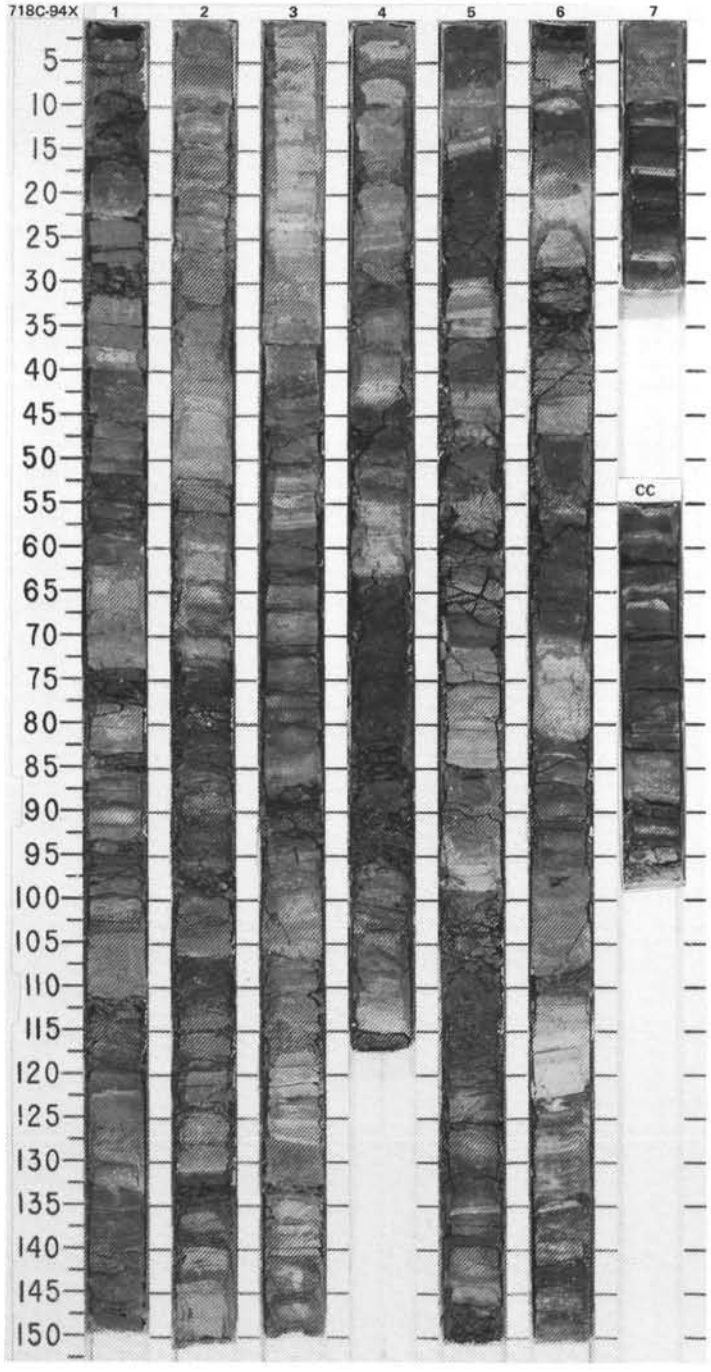
CLAY and MUD

Major lithology: Dark gray (5Y 4/1) to gray (5Y 5/1) to very dark gray (5Y 3/1) silt and/or clayey silt, grading upward to silty clay and clay, forming beds ranging from 2-30 cm thick. Silt-mud turbidites.

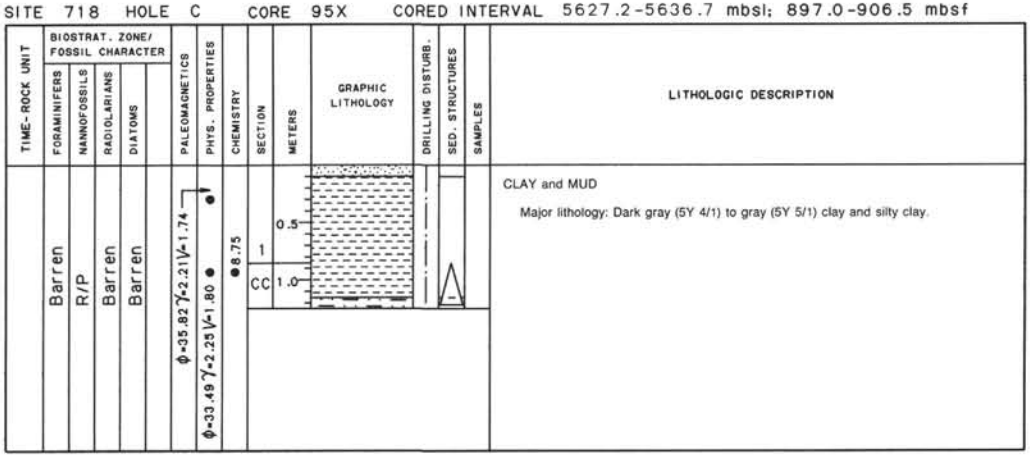
Minor lithologies: a. Reddish brown (5YR 5/3) clay (2-30 cm thick), interbedded with silt-mud turbidites. b. Light gray (5Y 7/1) calcareous clayey silt to silt, 1-10 cm thick.

SMEAR SLIDE SUMMARY (%):

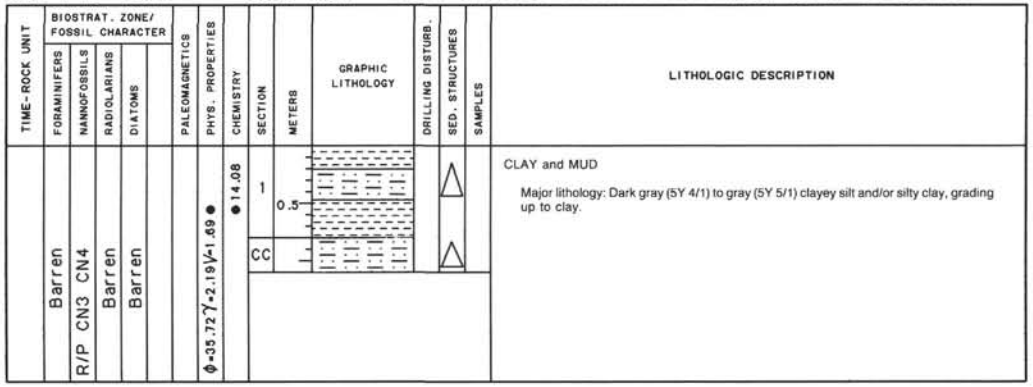
	1, 36 D	1, 56 D	4, 80 D	5, 83 M	6, 45 M	6, 113 M
TEXTURE:						
Silt	3	4	8	25	60	10
Clay	97	96	92	75	40	90
COMPOSITION:						
Access. minerals	1	2	1	Tr	—	Tr
Clay	92	96	92	20	20	20
Foraminifers	—	—	—	—	3	Tr
Inorganic calcite	3	—	Tr	75	75	70
Mica	—	2	Tr	Tr	1	—
Nannofossils	1	—	—	Tr	1	10
Quartz	3	—	7	5	—	—
Sponge spicules	—	—	—	—	—	Tr



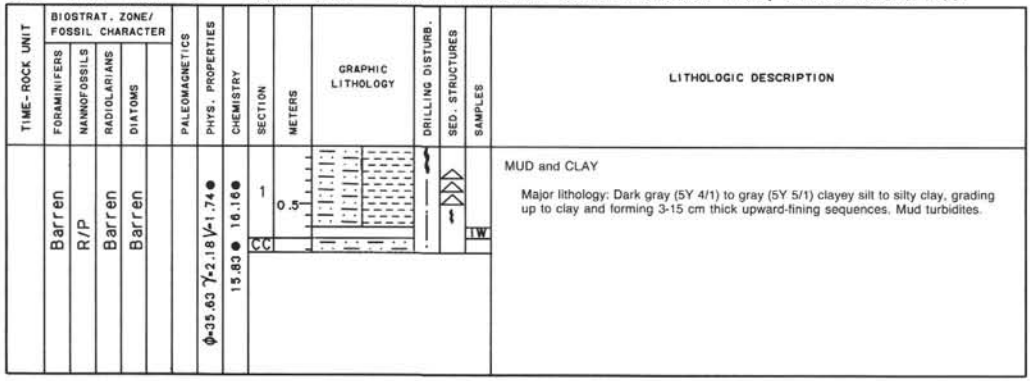
SITE 718 HOLE C CORE 95X CORED INTERVAL 5627.2-5636.7 mbsl; 897.0-906.5 mbsf

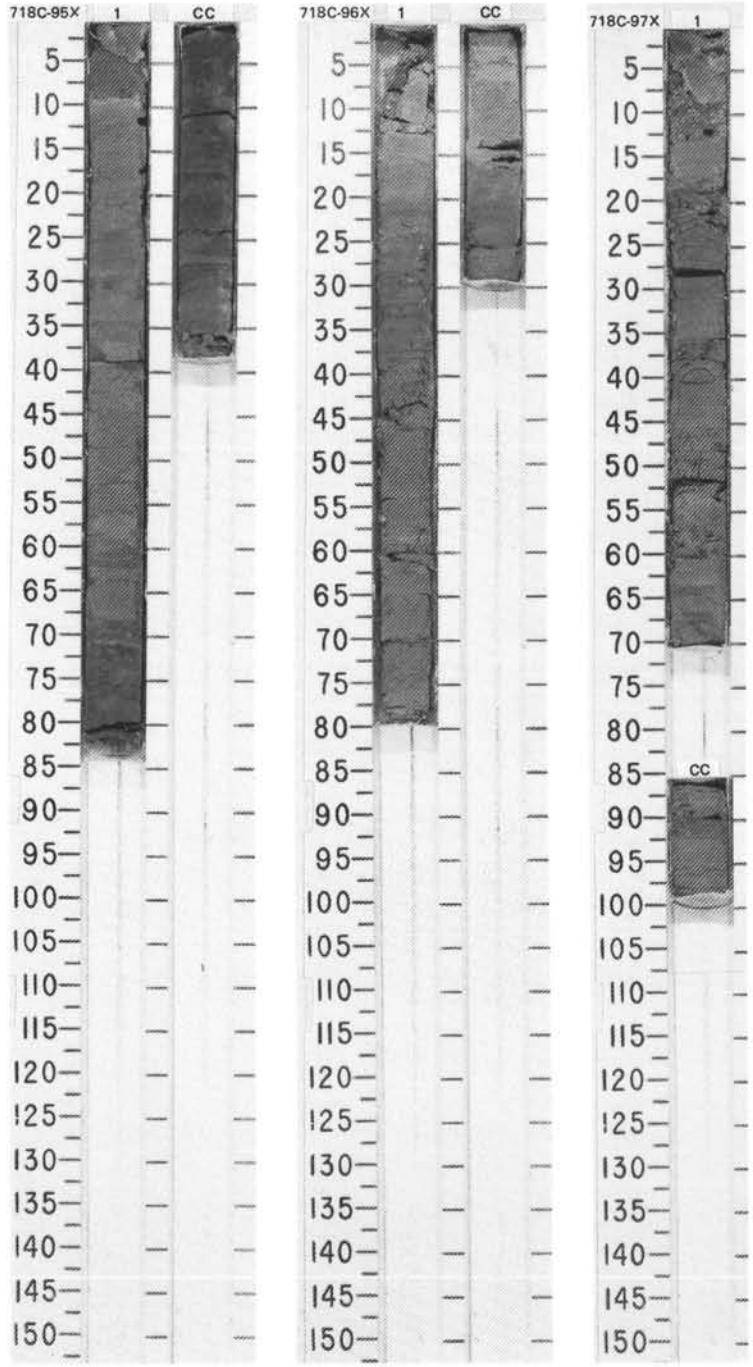


SITE 718 HOLE C CORE 96X CORED INTERVAL 5636.7-5646.2 mbsl; 906.5-916.0 mbsf



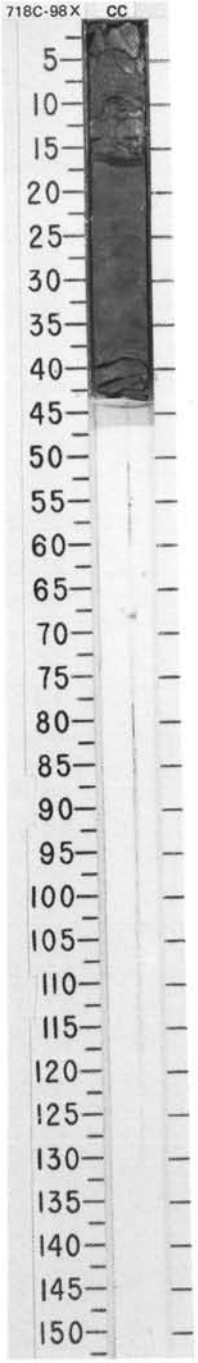
SITE 718 HOLE C CORE 97X CORED INTERVAL 5646.2-5655.7 mbsl; 916.0-925.5 mbsf





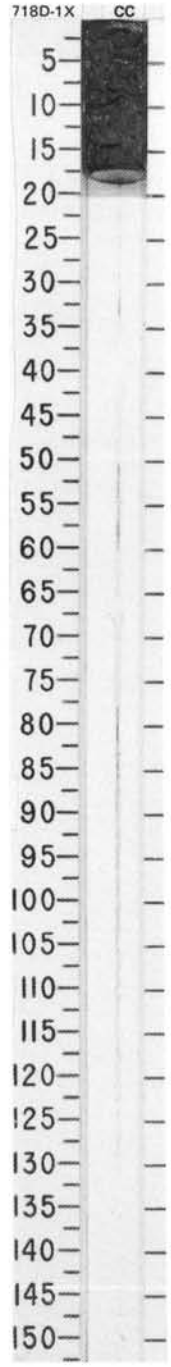
SITE 718 HOLE C CORE 98X CORED INTERVAL 5655.7-5665.2 mbsl; 925.5-935.0 mbsf

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
	Barren	Barren	Barren	Barren				CC						CLAY and SILTY CLAY *Major lithology: Gray (5Y 5/1) silty clay and clay.*

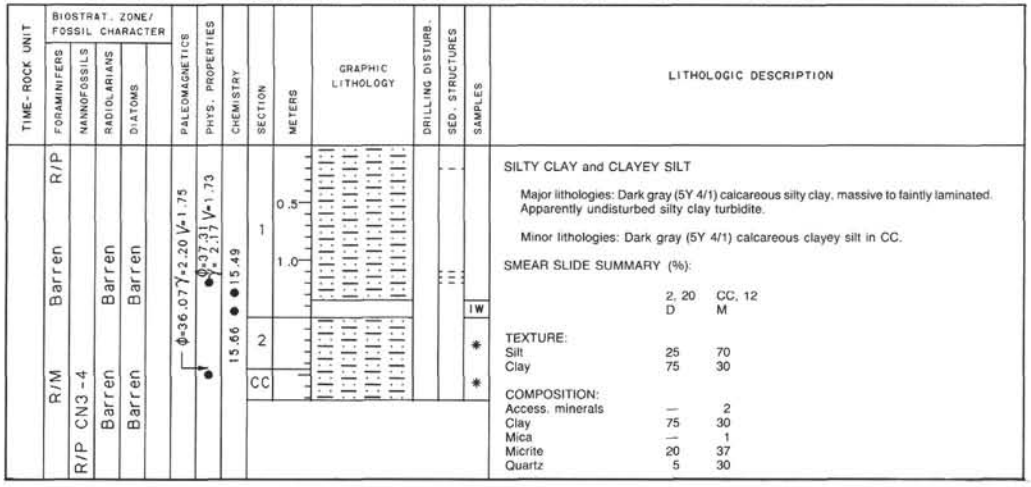


SITE 718 HOLE D CORE 1X CORED INTERVAL 4801.2-4810.7 mbsl; 71.0-80.5 mbsf

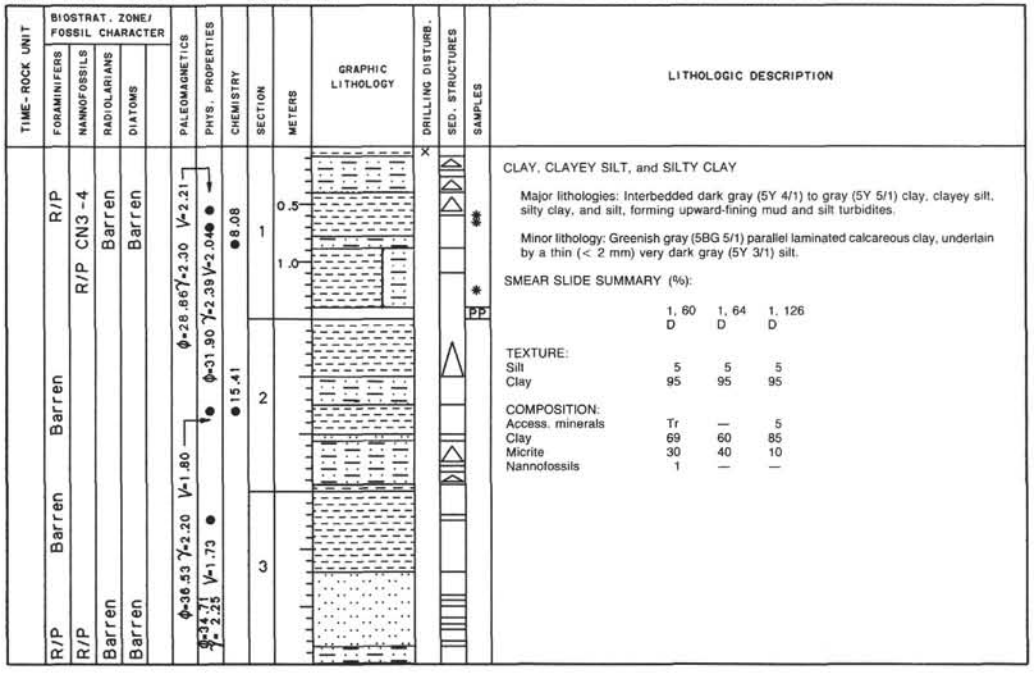
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	Barren	Barren	Barren	Barren				CC			O			SILT Major lithology: Gray (5Y 5/1) micaceous silt with wood fragments.

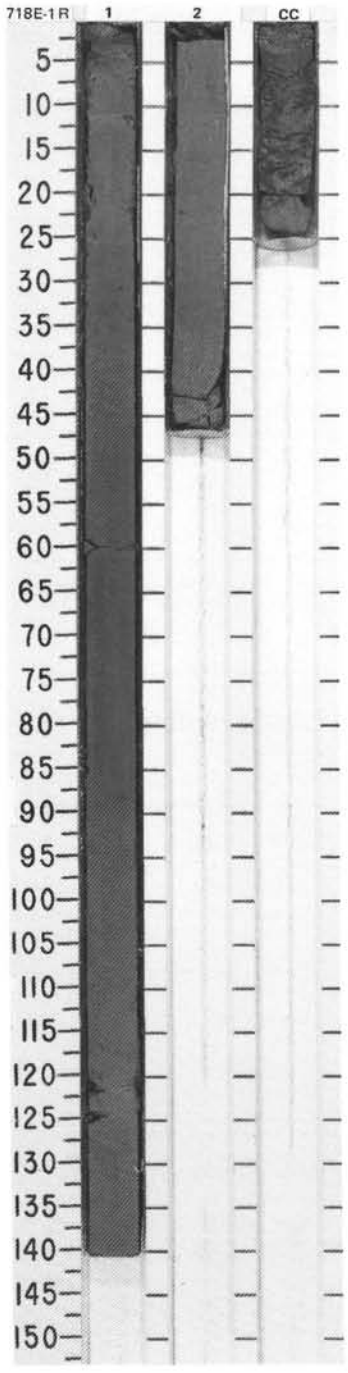


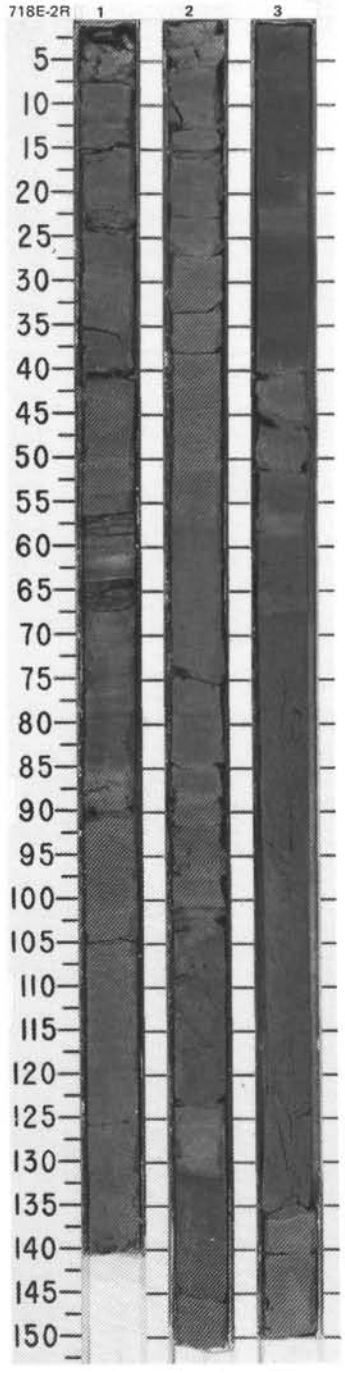
SITE 718 HOLE E CORE 1R CORED INTERVAL 5663.4-5672.9 mbsl; 933.1-942.6 mbsf



SITE 718 HOLE E CORE 2R CORED INTERVAL 5672.9-5682.4 mbsl; 942.6-952.1 mbsf







SITE 718 HOLE E CORE 3R CORED INTERVAL 5682.4-5691.9 mbsl; 952.1-961.6 mbsf

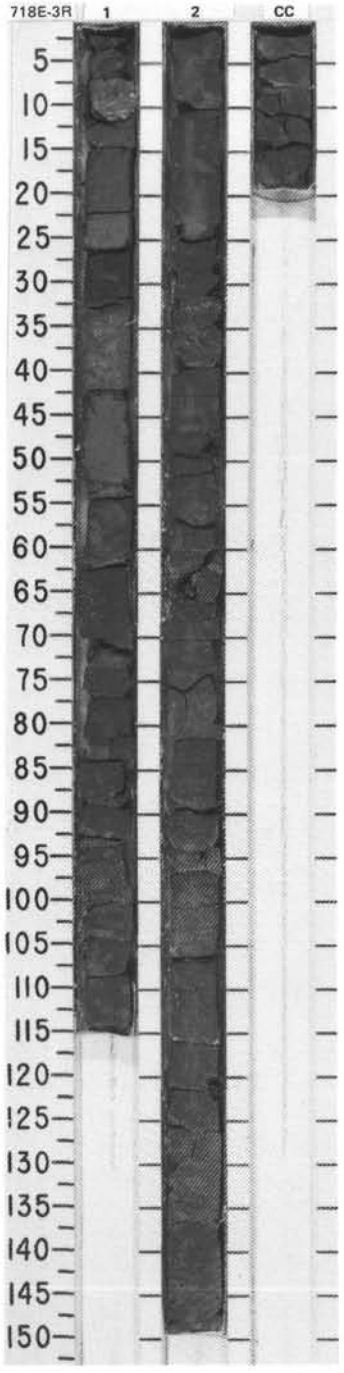
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
	Barren		Barren	Barren	φ=36.34 γ=2.17 V=1.73	φ=36.53 γ=2.21 V=1.76	12.83	1	0.5, 1.0		×		* * OG IW
	R/M						14.41	2					
	Barren	R/P	Barren	Barren		φ=35.37 γ=2.19		CC					

LITHOLOGIC DESCRIPTION

CLAY and CLAYEY SILT

Major lithologies: Dark gray (5Y 4/1) calcareous clay and clayey silt. Calcareous clay/mud turbidite cycles.

Minor lithology: Pebble of dark reddish gray (5YR 4/2) clay in Section 1, 5-12 cm.

SMEAR SLIDE SUMMARY (%):

	1, 46 D	1, 88 M
TEXTURE:		
Silt	5	75
Clay	95	25
COMPOSITION:		
Access. minerals	5	5
Clay	70	20
Micrite	20	30
Plant debris	5	5
Quartz	—	40