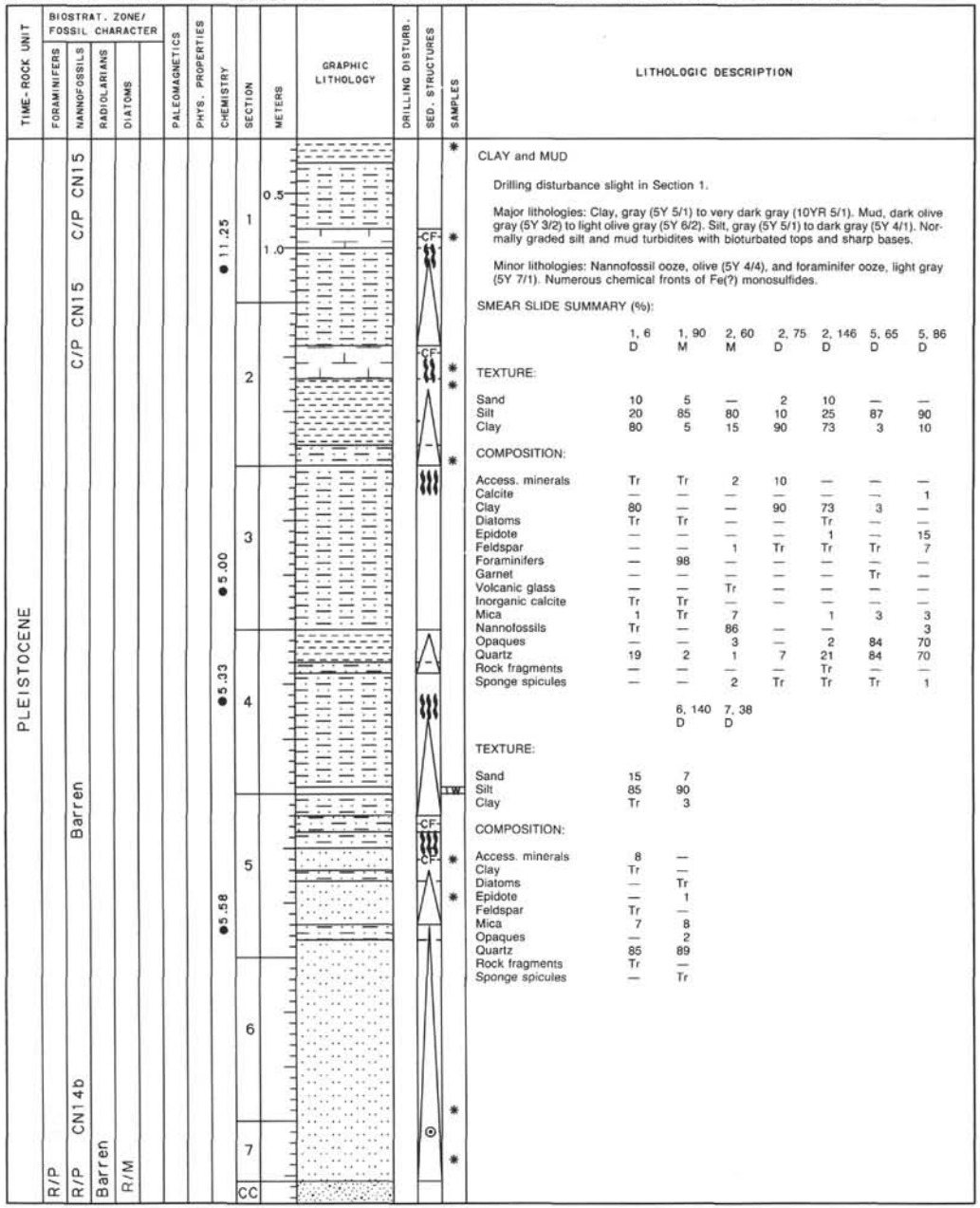
SITE 717 HOLE A CORE 1H CORED INTERVAL 4734.7-4744.2 mbsl; 0.0-9.5 mbsf



LITHOLOGIC DESCRIPTION

CLAY and MUD

Drilling disturbance slight in Section 1.

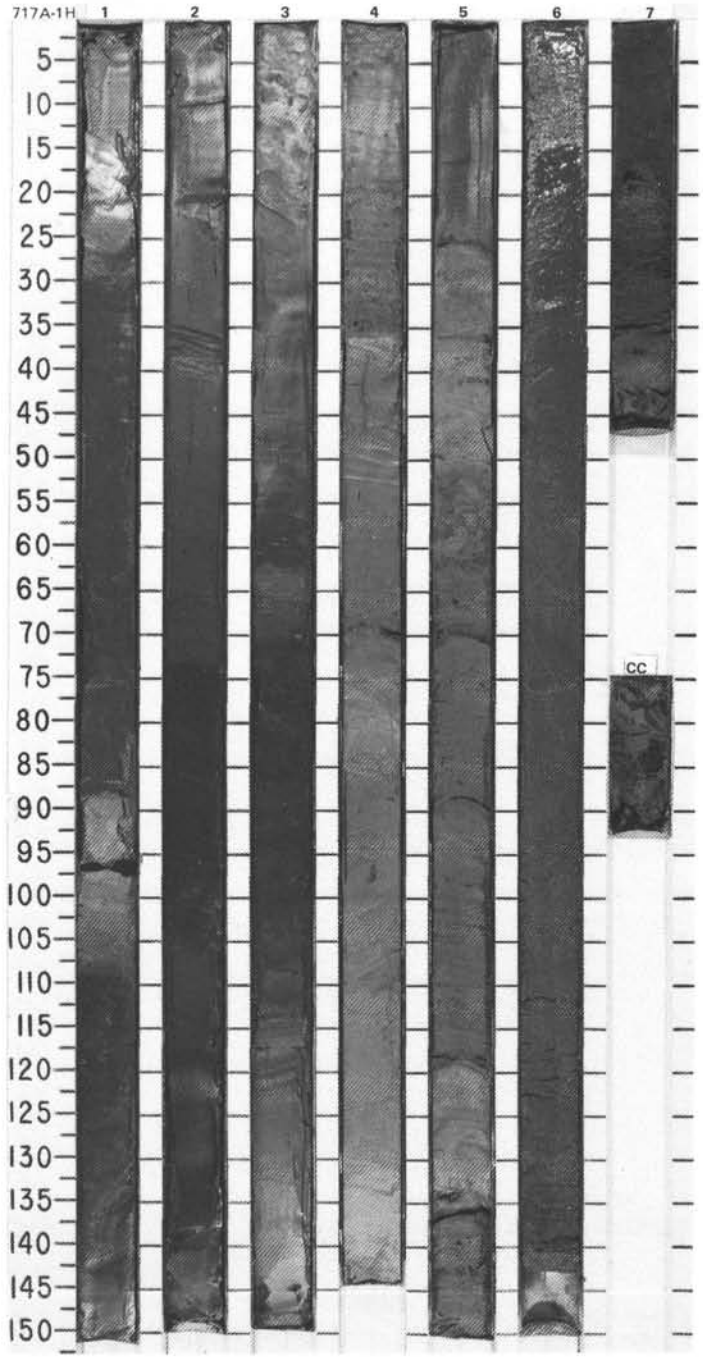
Major lithologies: Clay, gray (5Y 5/1) to very dark gray (10YR 5/1). Mud, dark olive gray (5Y 3/2) to light olive gray (5Y 6/2). Silt, gray (5Y 5/1) to dark gray (5Y 4/1). Normally graded silt and mud turbidites with bioturbated tops and sharp bases.

Minor lithologies: Nannofossil ooze, olive (5Y 4/4), and foraminifer ooze, light gray (5Y 7/1). Numerous chemical fronts of Fe(?) monosulfides.

SMEAR SLIDE SUMMARY (%):

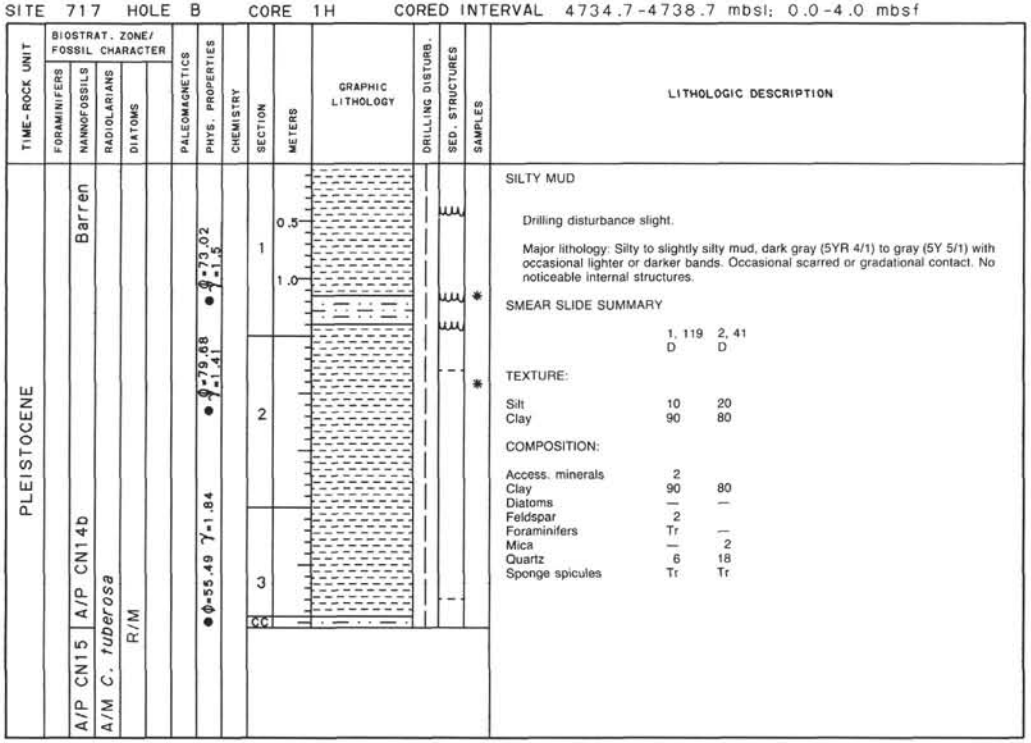
	1, 6 D	1, 90 M	2, 60 M	2, 75 D	2, 146 D	5, 65 D	5, 86 D
TEXTURE:							
Sand	10	5	—	2	10	—	—
Silt	20	85	80	10	25	87	90
Clay	80	5	15	90	73	3	10
COMPOSITION:							
Access. minerals	Tr	Tr	2	10	—	—	—
Calcite	—	—	—	—	—	—	1
Clay	80	—	—	90	73	3	—
Diatoms	Tr	Tr	—	—	Tr	—	—
Epidote	—	—	—	—	1	—	15
Feldspar	—	—	1	Tr	Tr	Tr	7
Foraminifers	—	98	—	—	—	—	—
Garnet	—	—	—	—	—	Tr	—
Volcanic glass	—	—	Tr	—	—	—	—
Inorganic calcite	Tr	Tr	—	—	—	—	—
Mica	1	Tr	7		1	3	3
Nannofossils	Tr	—	86	—	—		3
Opaques	—	—	3	—	2	84	70
Quartz	19	2	1	7	21	84	70
Rock fragments	—	—	—	—	Tr	—	—
Sponge spicules	—	—	2	Tr	Tr	Tr	1

	6, 140 D	7, 38 D
TEXTURE:		
Sand	15	7
Silt	85	90
Clay	Tr	3
COMPOSITION:		
Access. minerals	8	—
Clay	Tr	—
Diatoms	—	Tr
Epidote	—	1
Feldspar	Tr	—
Mica	7	8
Opaques	—	2
Quartz	85	89
Rock fragments	Tr	—
Sponge spicules	—	Tr



Information on Core Description Forms, for ALL sites, represents field notes taken aboard ship. Some of this information has been refined in accord with post-cruise findings, but production schedules prohibit definitive correlation of these forms with subsequent findings. Thus the reader should be alerted to the occasional ambiguity or discrepancy.

SITE 717 HOLE B CORE 1H CORED INTERVAL 4734.7-4738.7 mbsl; 0.0-4.0 mbsf



LITHOLOGIC DESCRIPTION

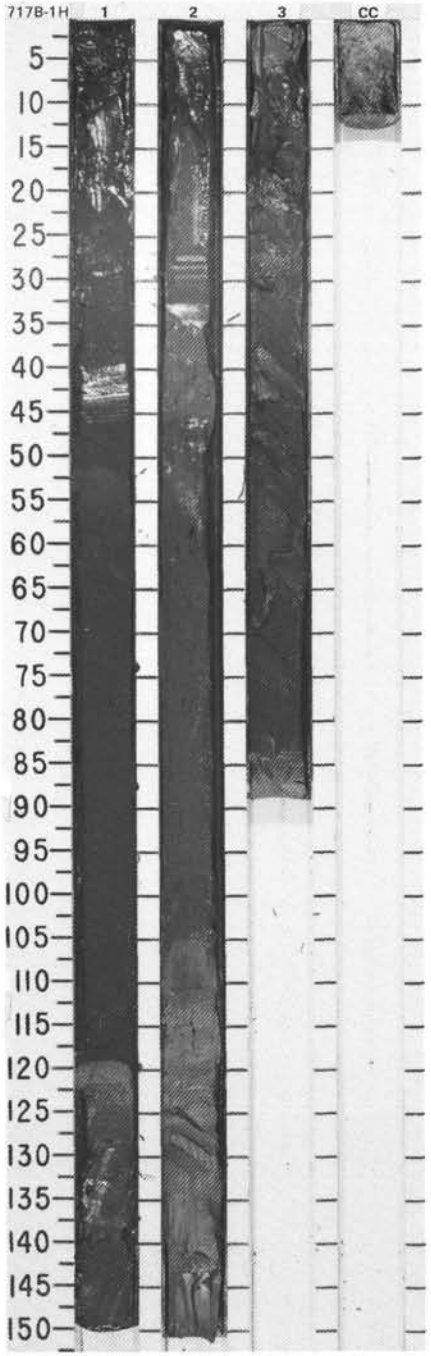
SILTY MUD

Drilling disturbance slight.

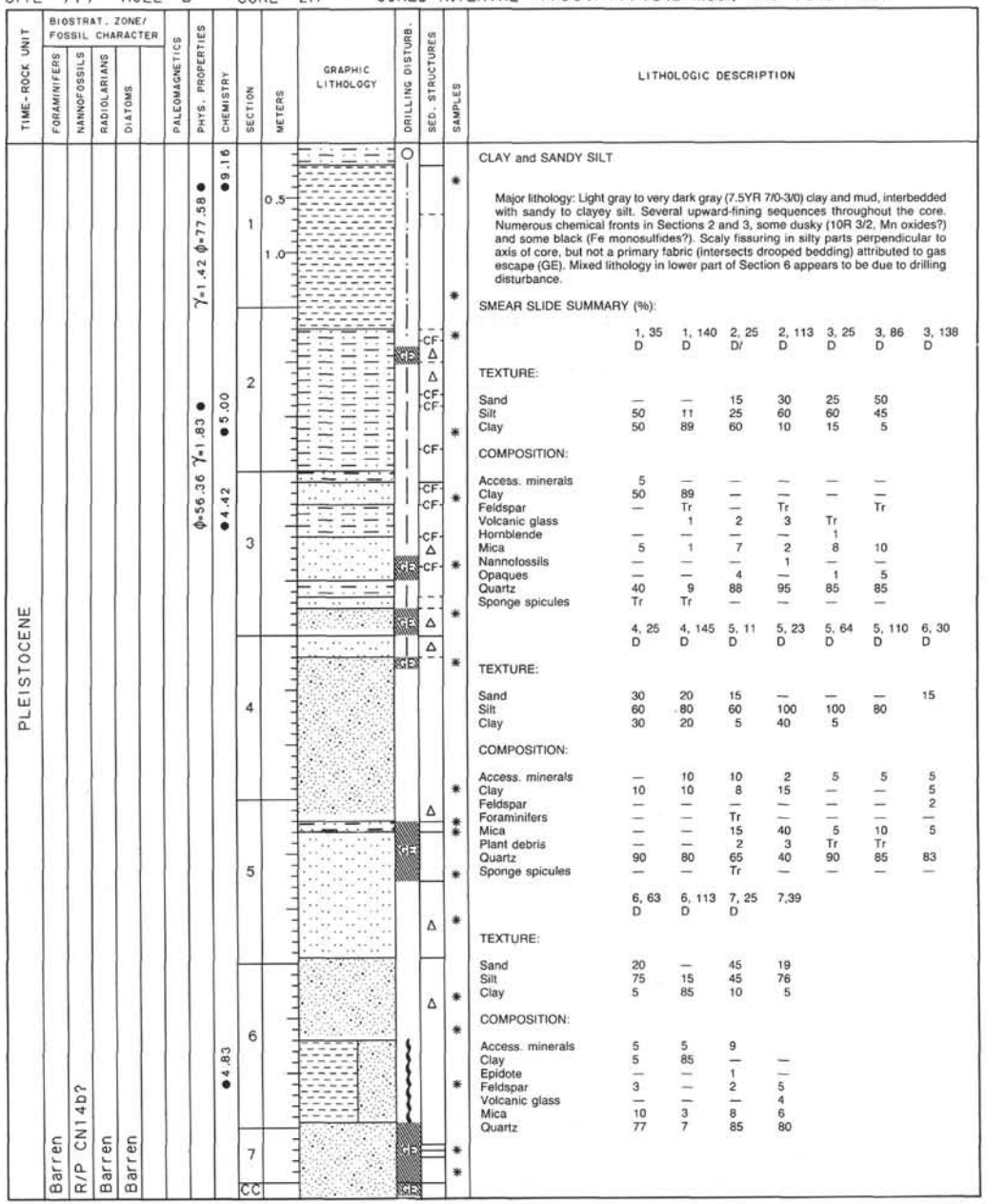
Major lithology: Silty to slightly silty mud, dark gray (5YR 4/1) to gray (5Y 5/1) with occasional lighter or darker bands. Occasional scarred or gradational contact. No noticeable internal structures.

SMEAR SLIDE SUMMARY

	1, 119 D	2, 41 D
TEXTURE:		
Silt	10	20
Clay	90	80
COMPOSITION:		
Access. minerals	2	
Clay	90	80
Diatoms	—	—
Feldspar	2	
Foraminifers	Tr	—
Mica	—	2
Quartz	6	18
Sponge spicules	Tr	Tr



SITE 717 HOLE B CORE 2H CORED INTERVAL 4738.7-4748.2 mbsl; 4.0-13.5 mbsf



LITHOLOGIC DESCRIPTION

CLAY and SANDY SILT

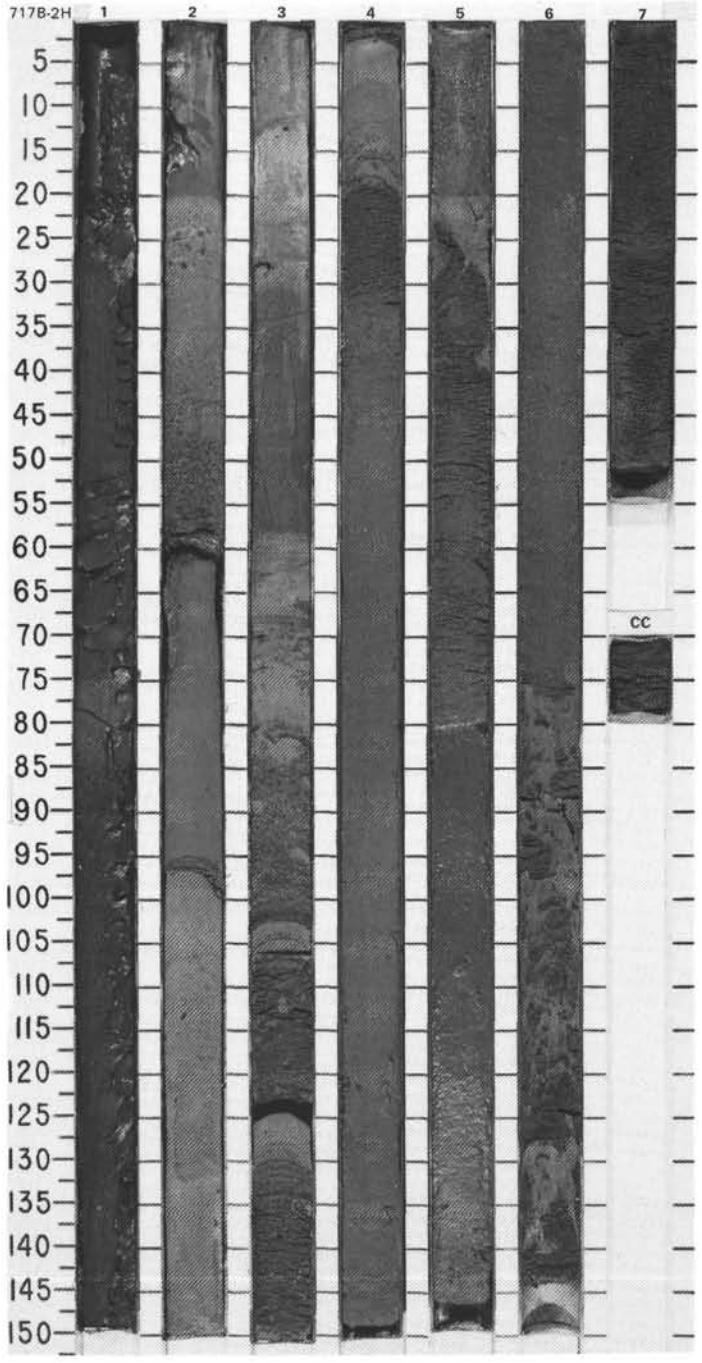
Major lithology: Light gray to very dark gray (7.5YR 7/0-3/0) clay and mud, interbedded with sandy to clayey silt. Several upward-fining sequences throughout the core. Numerous chemical fronts in Sections 2 and 3, some dusky (10R 3/2, Mn oxides?) and some black (Fe monosulfides?). Scaly fissuring in silty parts perpendicular to axis of core, but not a primary fabric (intersects drooped bedding) attributed to gas escape (GE). Mixed lithology in lower part of Section 6 appears to be due to drilling disturbance.

SMEAR SLIDE SUMMARY (%):

	1, 35 D	1, 140 D	2, 25 D/	2, 113 D	3, 25 D	3, 86 D	3, 138 D
TEXTURE:							
Sand	—	—	15	30	25	50	
Silt	50	11	25	60	60	45	
Clay	50	89	60	10	15	5	
COMPOSITION:							
Access. minerals	5	—	—	—	—	—	
Clay	50	89	—	—	—	—	
Feldspar	—	Tr	—	Tr		Tr	
Volcanic glass		1	2	3	Tr		
Hornblende	—	—	—	—	1		
Mica	5	1	7	2	8	10	
Nannofossils	—	—	—	1	—	—	
Opaques	—	—	4	—	1	5	
Quartz	40	9	88	95	85	85	
Sponge spicules	Tr	Tr	—	—	—	—	

	4, 25 D	4, 145 D	5, 11 D	5, 23 D	5, 64 D	5, 110 D	6, 30 D
TEXTURE:							
Sand	30	20	15	—	—	—	15
Silt	60	80	60	100	100	80	
Clay	30	20	5	40	5		
COMPOSITION:							
Access. minerals	—	10	10	2	5	5	5
Clay	10	10	8	15	—	—	5
Feldspar	—	—	—	—	—	—	2
Foraminifers	—	—	Tr	—	—	—	—
Mica	—	—	15	40	5	10	5
Plant debris	—	—	2	3	Tr	Tr	
Quartz	90	80	65	40	90	85	83
Sponge spicules	—	—	Tr	—	—	—	—

	6, 63 D	6, 113 D	7, 25 D	7,39
TEXTURE:				
Sand	20	—	45	19
Silt	75	15	45	76
Clay	5	85	10	5
COMPOSITION:				
Access. minerals	5	5	9	
Clay	5	85	—	—
Epidote	—	—	1	—
Feldspar	3	—	2	5
Volcanic glass	—	—	—	4
Mica	10	3	8	6
Quartz	77	7	85	80



CORE–717C–1H–NO RECOVERY

SITE 717 HOLE C CORE 2H CORED INTERVAL 4748.2-4752.2 mbsl; 13.5-17.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLEISTOCENE	Barren	R/P CN14b	Barren	Barren		● ϕ=43.37 γ=2.03 V=1.53	● 3.42	1, 2, CC	0.5, 1.0	VOID, VOID		Δ	*

LITHOLOGIC DESCRIPTION

MICACEOUS SANDY SILT

Major lithology: Micaceous sandy silt averaging around 10% mica and 70% quartz. Generally structureless, with only one questionable upward-fining sequence. Color is olive gray (5GY 4/1).

SMEAR SLIDE SUMMARY (%):

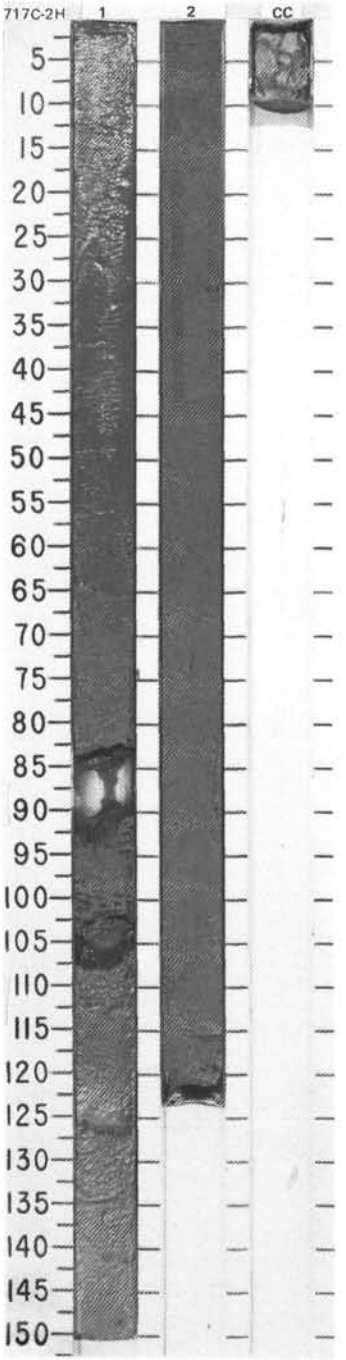
	1, 20 D	1, 60 D	1, 100 D	1, 110 D	1, 140 D	2, 30 D	2, 90 D
TEXTURE:							
Sand	25	25	30	30	30	15	10
Silt	75	75	65	65	65	80	80
Clay	Tr	—	5	5	5	5	10
COMPOSITION:							
Access. minerals	10	10	15	14	15	20	—
Clay	—	—	—	—	—	—	—
Feldspar	5	2	3	3	3	5	
Mica	7	10	10	10	20	Tr	
Nannofossils	—	—	—	—	7	—	—
Opaques	—	—	—	—	75	—	—
Quartz	78	78	72	73	—	60	60

SITE 717 HOLE C CORE 3X CORED INTERVAL 4752.2-4761.7 mbsl; 17.5-27.0 mbsf

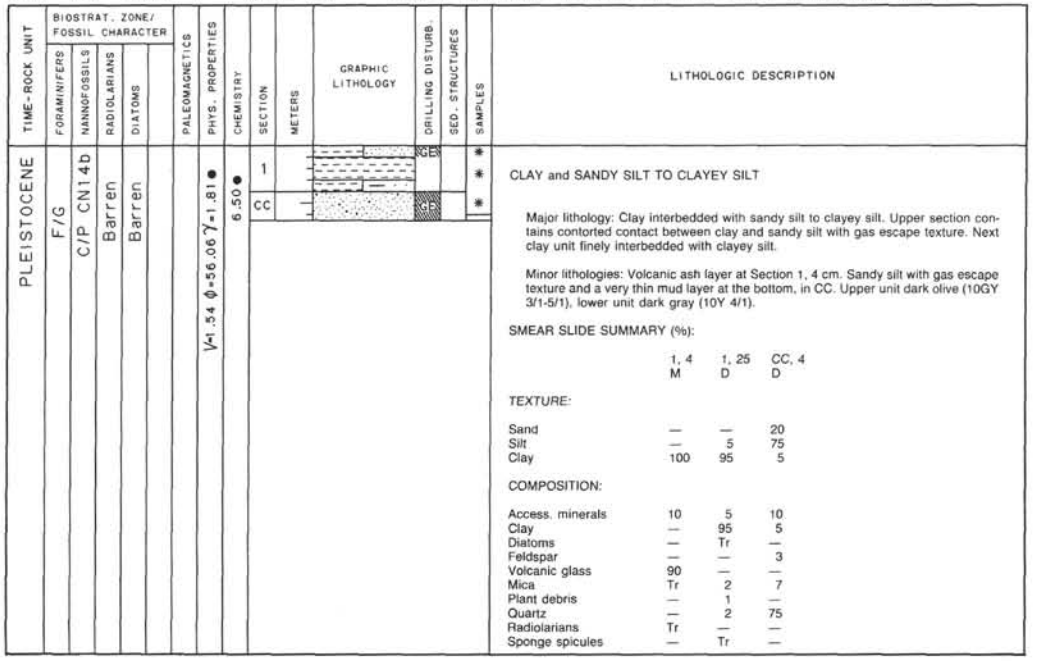
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLEISTOCENE	R/G	R/P CN1 4b	Barren	Barren				1					

LITHOLOGIC DESCRIPTION

3 cm recovery, given to the paleontologists.



SITE 717 HOLE C CORE 4X CORED INTERVAL 4761.7-4771.2 mbsl; 27.0-36.5 mbsf



CLAY and SANDY SILT TO CLAYEY SILT

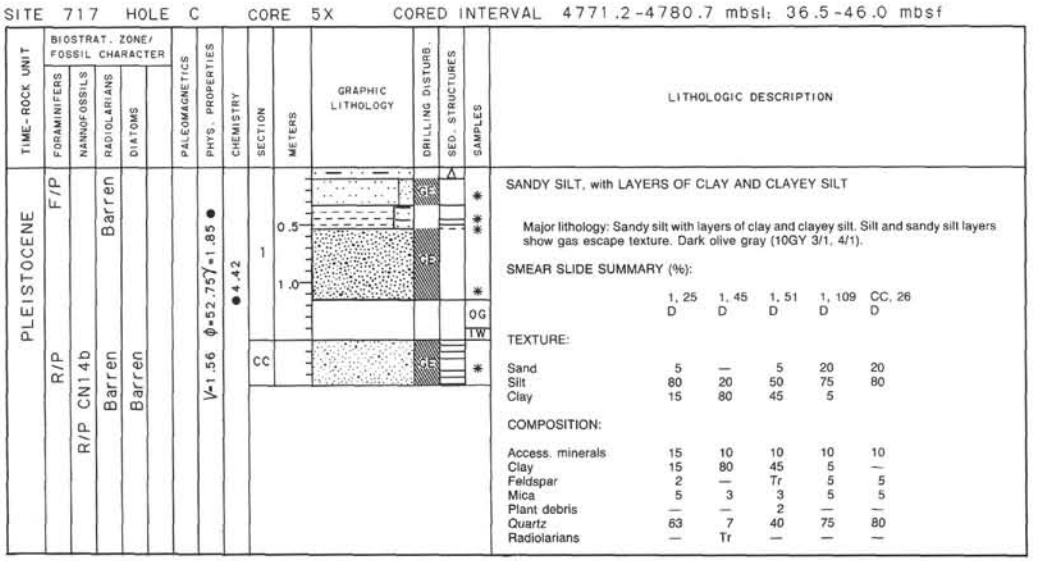
Major lithology: Clay interbedded with sandy silt to clayey silt. Upper section contains contorted contact between clay and sandy silt with gas escape texture. Next clay unit finely interbedded with clayey silt.

Minor lithologies: Volcanic ash layer at Section 1, 4 cm. Sandy silt with gas escape texture and a very thin mud layer at the bottom, in CC. Upper unit dark olive (10GY 3/1-5/1), lower unit dark gray (10Y 4/1).

SMEAR SLIDE SUMMARY (%):

	1, 4 M	1, 25 D	CC, 4 D
TEXTURE:			
Sand	—	—	20
Silt	—	5	75
Clay	100	95	5
COMPOSITION:			
Access. minerals	10	5	10
Clay	—	95	5
Diatoms	—	Tr	—
Feldspar	—	—	3
Volcanic glass	90	—	—
Mica	Tr	2	7
Plant debris	—	1	—
Quartz	—	2	75
Radiolarians	Tr	—	—
Sponge spicules	—	Tr	—

SITE 717 HOLE C CORE 5X CORED INTERVAL 4771.2-4780.7 mbsl; 36.5-46.0 mbsf

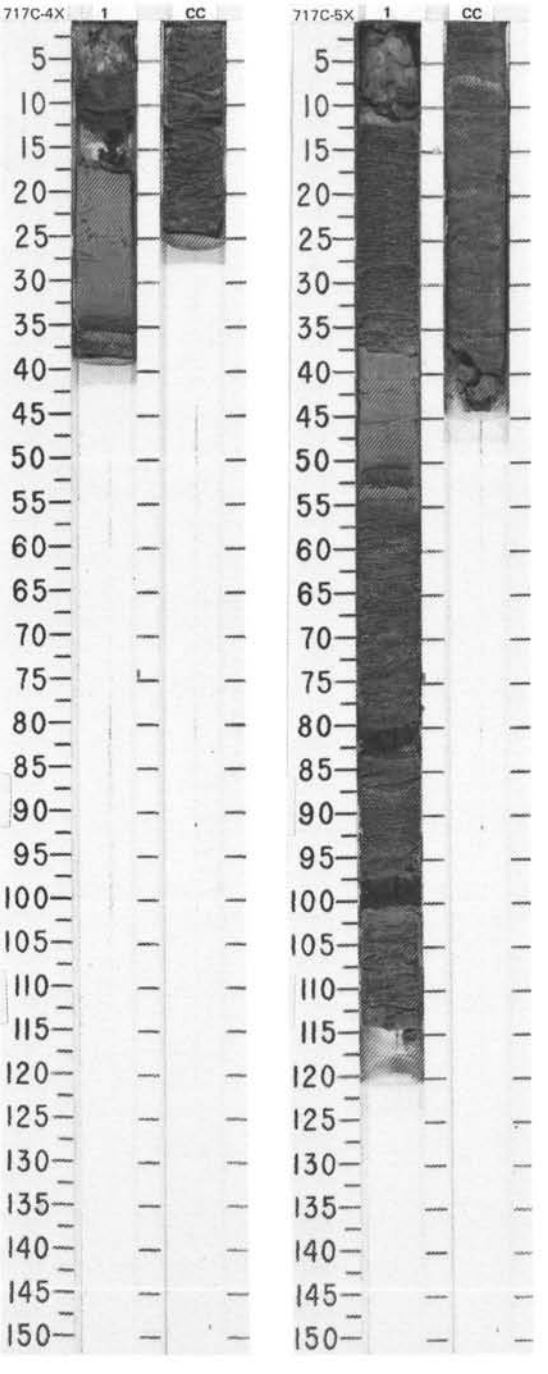


SANDY SILT, with LAYERS OF CLAY AND CLAYEY SILT

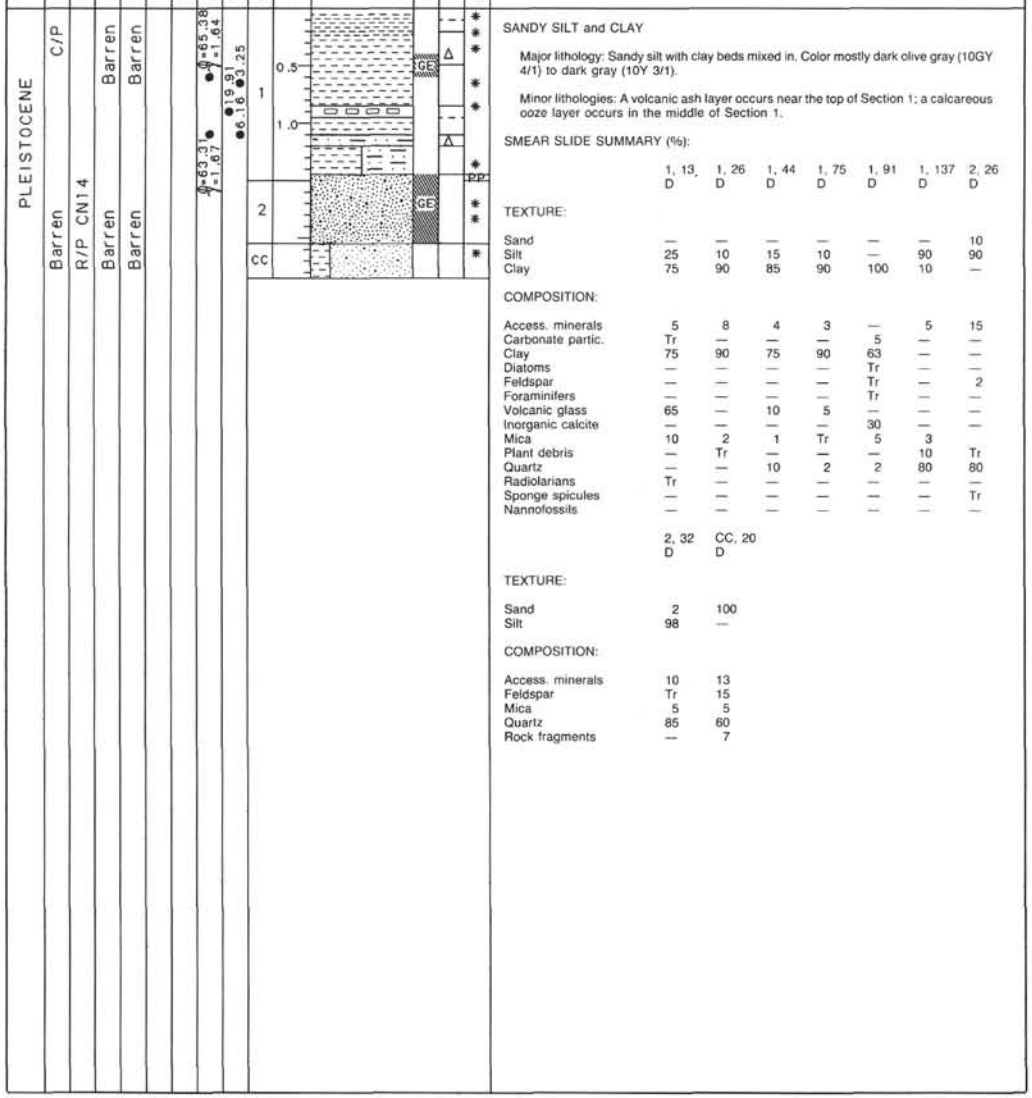
Major lithology: Sandy silt with layers of clay and clayey silt. Silt and sandy silt layers show gas escape texture. Dark olive gray (10GY 3/1, 4/1).

SMEAR SLIDE SUMMARY (%):

	1, 25 D	1, 45 D	1, 51 D	1, 109 D	CC, 26 D
TEXTURE:					
Sand	5	—	5	20	20
Silt	80	20	50	75	80
Clay	15	80	45	5	
COMPOSITION:					
Access. minerals	15	10	10	10	10
Clay	15	80	45	5	—
Feldspar	2	—	Tr	5	5
Mica	5	3	3	5	5
Plant debris	—	—	2	—	—
Quartz	63	7	40	75	80
Radiolarians	—	Tr	—	—	—



SITE 717 HOLE C CORE 6X CORED INTERVAL 4780.7-4790.2 mbsl; 46.0-55.5 mbsf



LITHOLOGIC DESCRIPTION

SANDY SILT and CLAY

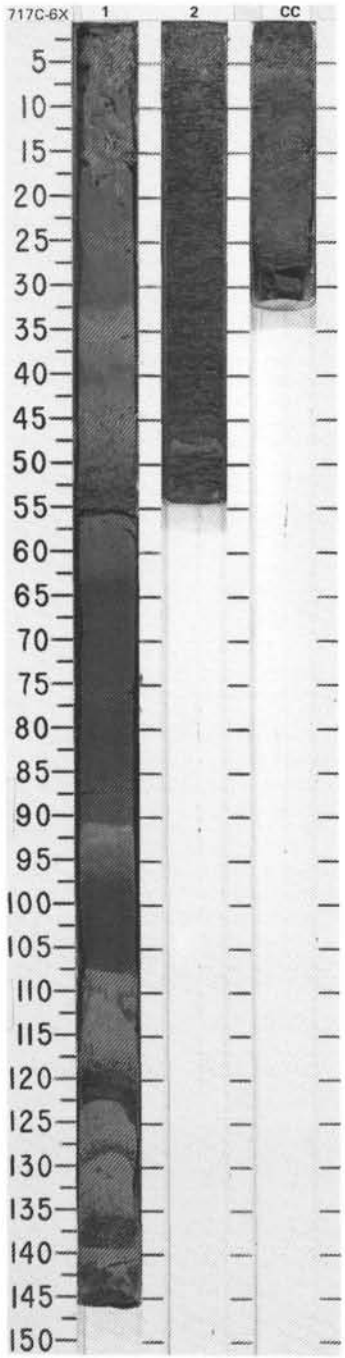
Major lithology: Sandy silt with clay beds mixed in. Color mostly dark olive gray (10GY 4/1) to dark gray (10Y 3/1).

Minor lithologies: A volcanic ash layer occurs near the top of Section 1; a calcareous ooze layer occurs in the middle of Section 1.

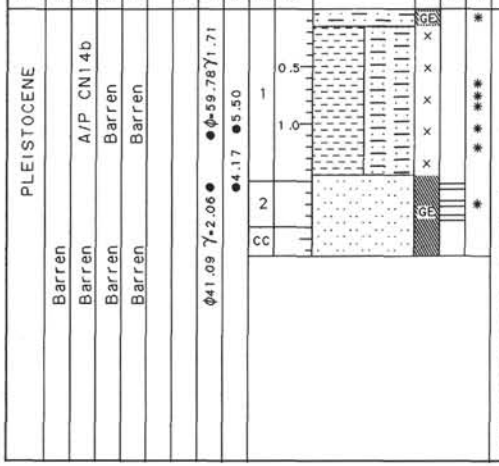
SMEAR SLIDE SUMMARY (%):

	1, 13, D	1, 26 D	1, 44 D	1, 75 D	1, 91 D	1, 137 D	2, 26 D
TEXTURE:							
Sand	—	—	—	—	—	—	10
Silt	25	10	15	10	—	90	90
Clay	75	90	85	90	100	10	—
COMPOSITION:							
Access. minerals	5	8	4	3	—	5	15
Carbonate partic.	Tr	—	—	—	5	—	—
Clay	75	90	75	90	63	—	—
Diatoms	—	—	—	—	Tr	—	—
Feldspar	—	—	—	—	Tr	—	2
Foraminifers	—	—	—	—	Tr	—	—
Volcanic glass	65	—	10	5	—	—	—
Inorganic calcite	—	—	—	—	30	—	—
Mica	10	2	1	Tr	5	3	
Plant debris	—	Tr	—	—	—	10	Tr
Quartz	—	—	10	2	2	80	80
Radiolarians	Tr	—	—	—	—	—	—
Sponge spicules	—	—	—	—	—	—	Tr
Nannofossils	—	—	—	—	—	—	—

	2, 32 D	CC, 20 D
TEXTURE:		
Sand	2	100
Silt	98	—
COMPOSITION:		
Access. minerals	10	13
Feldspar	Tr	15
Mica	5	5
Quartz	85	60
Rock fragments	—	7



SITE 717 HOLE C CORE 7X CORED INTERVAL 4790.2-4799.7 mbsl; 55.5-65.0 mbsf



LITHOLOGIC DESCRIPTION

SILTY CLAY

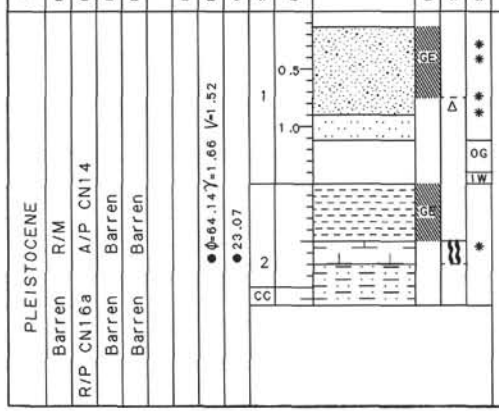
Major lithology: Silty clay, mostly dark gray (10GY 4/1, 3.5/1). In Section 1, a breccia of silty clay in a clay matrix occurs, probably a result of drilling disturbance.

Minor lithology: Silt. Lower part of core and CC, dark gray (10GY 3.5/1).

SMEAR SLIDE SUMMARY (%):

	1, 12 D	1, 70 D	1, 77 D	1, 80 D	1, 105 D	1, 124 D	2, 20 M
TEXTURE:							
Silt	35	30	30	5	35	30	100
Clay	65	70	70	95	65	70	—
COMPOSITION:							
Access. minerals	10	Tr	10	4	10	10	5
Clay	65	70	68	95	65	70	—
Diatoms	—	—	Tr	—	—	Tr	—
Feldspar	—	—	—	—	Tr	—	—
Foraminifers	—	—	Tr	—	—	—	—
Volcanic glass	7	—	—	—	—	—	
Inorganic calcite	—	—	—	—	—	Tr	—
Mica	3	Tr	10	1	10	5	10
Nannofossils	Tr	—	—	—	—	—	—
Opaques	—	30	—	—	—	—	—
Plant debris	—	—	2	5	5	—	—
Quartz	15	Tr	10	—	10	10	85

SITE 717 HOLE C CORE 8X CORED INTERVAL 4799.7-4809.2 mbsl; 65.0-74.5 mbsf



LITHOLOGIC DESCRIPTION

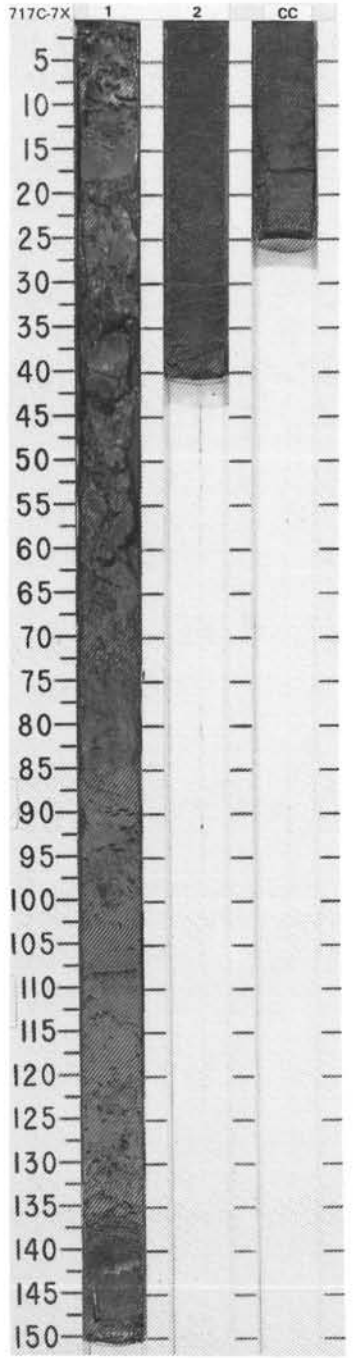
SILT, SILTY SAND, and CLAY

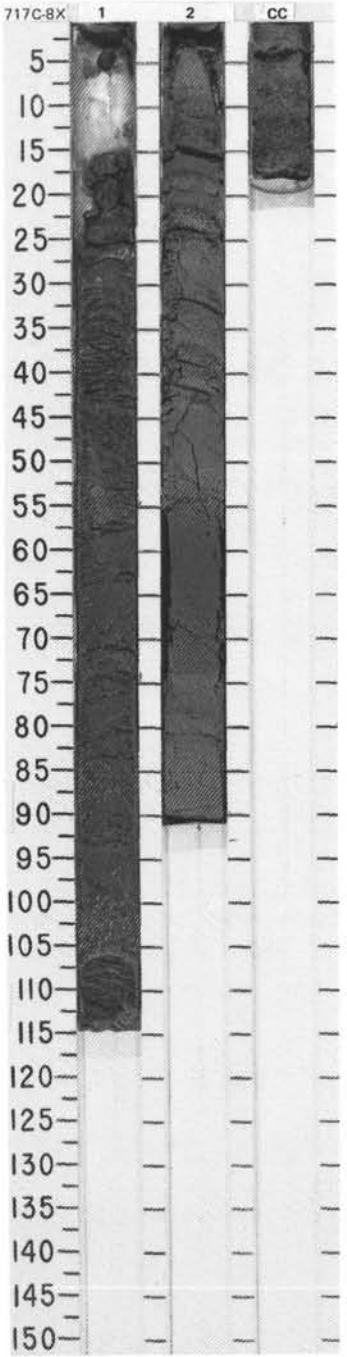
Major lithologies: Silt and silty sand in Section 1. Gray (5Y 5/1). Clay in Section 2, dark gray (10GY 4/1).

Minor lithology: A 20-cm-thick gray layer (10Y 4/1) of more than 90% nannofossils in Section 2. Dark gray (10GY 4/1) mud in CC.

SMEAR SLIDE SUMMARY (%):

	1, 39 D	1, 60 D	1, 80 D	1, 97 D	2, 60 M
TEXTURE:					
Sand	15	60	60	25	—
Silt	80	30	40	75	3
Clay	5	10	—	—	97
COMPOSITION:					
Access. minerals	10	—	15	2	—
Clay	5	5	—	—	3
Feldspar	3	—	—	—	—
Mica	10	5	5	15	—
Nannofossils	—	—	—	—	97
Quartz	72	90	80	83	—





CORE–717C–9I–NO RECOVERY

SITE 717 HOLE C CORE 10X CORED INTERVAL 4809.2-4818.7 mbsl; 74.5-84.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLEISTOCENE	C/M	R/P CN14a	Barren	Barren		ϕ=63.547 γ=1.72 γ=1.54		1	0.5, 1.0			CF, GE, PP	*
	Barren	Barren	Barren	Barren				CC				GE	*

LITHOLOGIC DESCRIPTION

INTERBEDDED MUD, NANNOFOSSIL OOZE, and SANDY SILT

Drilling disturbance moderate.

Major lithology: Mud, dark gray (4.5YR 4/0), forming 5-6-cm-thick mud turbidites.

Minor lithologies: Nannofossil ooze, gray (10Y 4/1), and sandy silt, dark gray (4.5YR 4/0).

SMEAR SLIDE SUMMARY (%):

	1, 46 D	1, 77 M	1, 115 D	CC, 11 M
TEXTURE:				
Sand	—	—	—	15
Silt	5	15	10	5
Clay	95	85	90	80
COMPOSITION:				
Clay	85	1	90	87
Feldspar	Tr	—	—	Tr
Volcanic glass	—	—	—	2
Inorganic calcite	—	—	Tr	—
Mica	4	Tr	Tr	3
Nannofossils	—	99	3	—
Opaques	6	—	Tr	2
Quartz	5	—	6	5
Sponge spicules	—	Tr	—	1

SITE 717 HOLE C CORE 11X CORED INTERVAL 4818.7-4828.2 mbsl; 84.0-93.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLEISTOCENE	R/G	R/P CN14a	Barren	Barren				CC					*

LITHOLOGIC DESCRIPTION

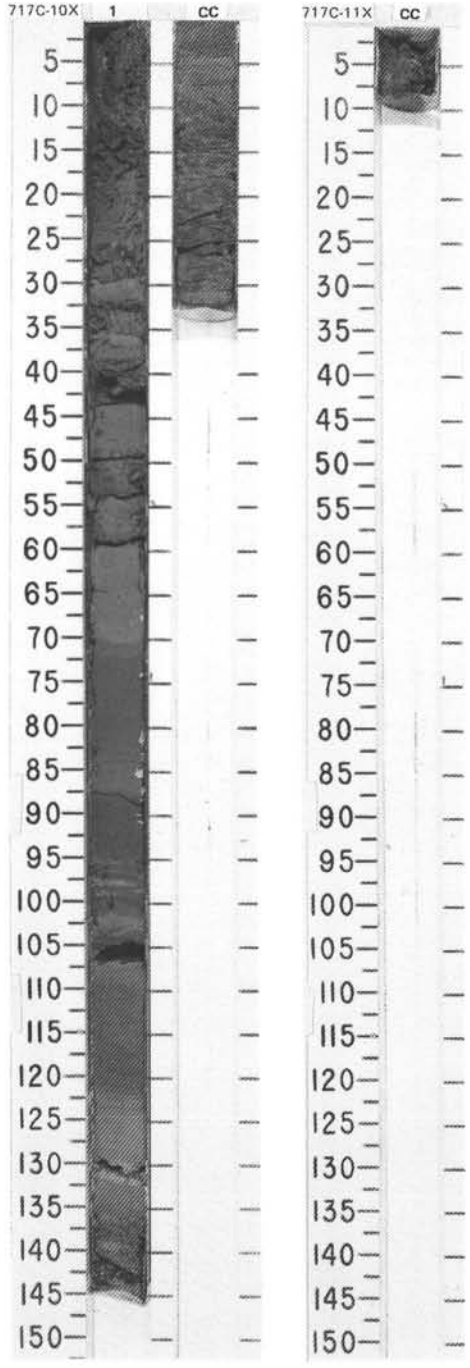
MUD

Moderate drilling disturbance.

Major lithology: Mud, gray (5Y 5/1).

SMEAR SLIDE SUMMARY (%):

	CC, 5 D
TEXTURE:	
Silt	40
Clay	60
COMPOSITION:	
Access. minerals	1
Clay	60
Mica	2
Quartz	37
Sponge spicules	Tr



SITE 717 HOLE C CORE 12X CORED INTERVAL 4828.2-4837.7 mbsl; 93.5-103.0 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
PLEISTOCENE	Barren	R/P CN14	Barren	Barren				CC			GE		*	

SILTY CLAY

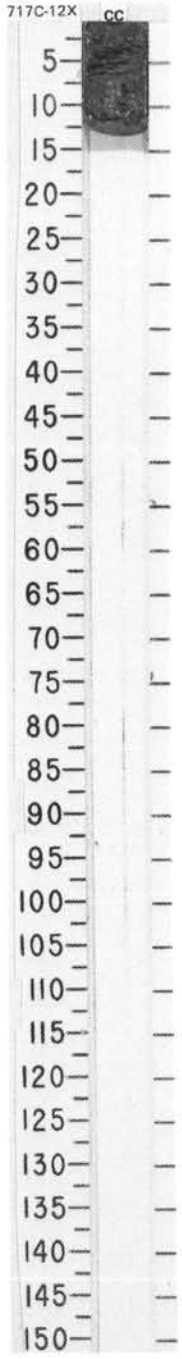
Slight drilling disturbance.

Major lithology: Silty clay, dark gray (3.5YR 4/0). CC sample disturbed by gas escape structure(?).

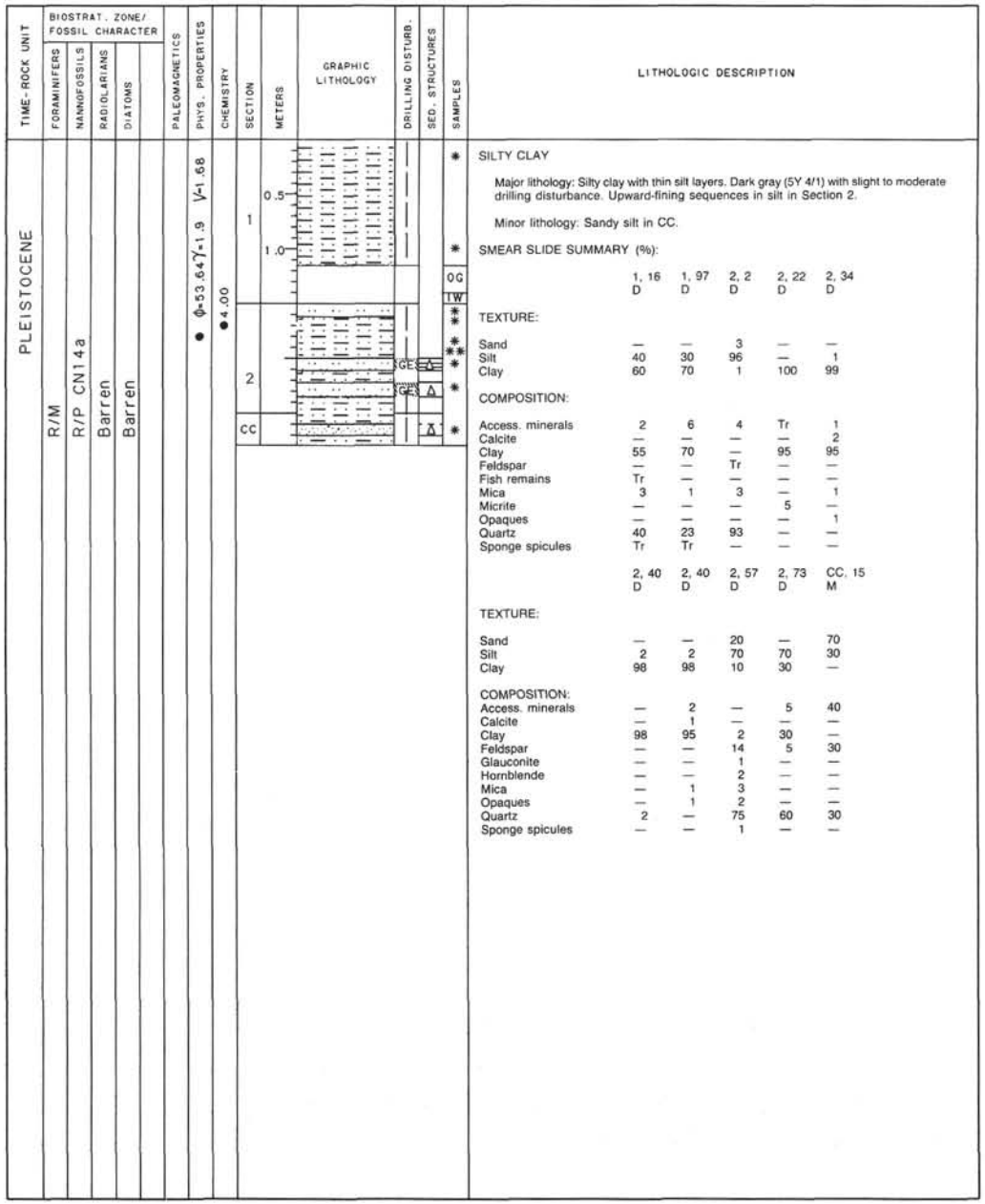
SMEAR SLIDE SUMMARY (%):

	CC, 8
	D
TEXTURE:	
Sand	10
Silt	14
Clay	76
COMPOSITION:	
Clay	86
Feldspar	Tr
Volcanic glass	1
Mica	3
Opaques	1
Quartz	7
Sponge spicules	2

CORE–717C–13I–NO RECOVERY



SITE 717 HOLE C CORE 14X CORED INTERVAL 4837.7-4847.2 mbsl; 103.0-112.5 mbsf



LITHOLOGIC DESCRIPTION

SILTY CLAY

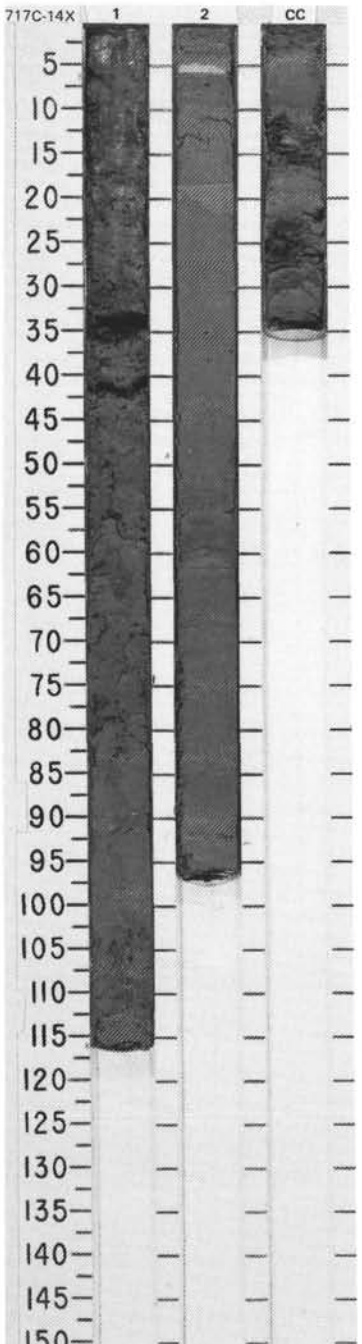
Major lithology: Silty clay with thin silt layers. Dark gray (5Y 4/1) with slight to moderate drilling disturbance. Upward-fining sequences in silt in Section 2.

Minor lithology: Sandy silt in CC.

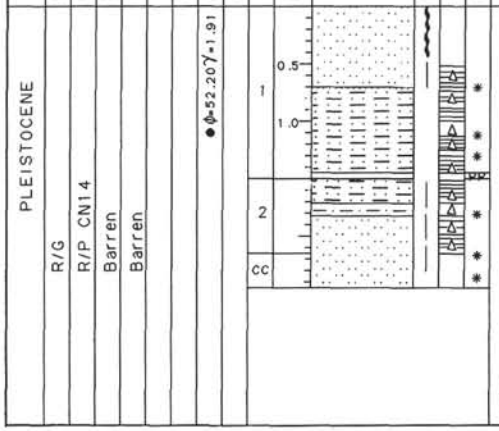
SMEAR SLIDE SUMMARY (%):

	1, 16 D	1, 97 D	2, 2 D	2, 22 D	2, 34 D
TEXTURE:					
Sand	—	—	3	—	—
Silt	40	30	96	—	1
Clay	60	70	1	100	99
COMPOSITION:					
Access. minerals	2	6	4	Tr	1
Calcite	—	—	—	—	2
Clay	55	70	—	95	95
Feldspar	—	—	Tr	—	—
Fish remains	Tr	—	—	—	—
Mica	3	1	3	—	1
Micrite	—	—	—	5	—
Opaques	—	—	—	—	1
Quartz	40	23	93	—	—
Sponge spicules	Tr	Tr	—	—	—

	2, 40 D	2, 40 D	2, 57 D	2, 73 D	CC, 15 M
TEXTURE:					
Sand	—	—	20	—	70
Silt	2	2	70	70	30
Clay	98	98	10	30	—
COMPOSITION:					
Access. minerals	—	2	—	5	40
Calcite	—	1	—	—	—
Clay	98	95	2	30	—
Feldspar	—	—	14	5	30
Glauconite	—	—	1	—	—
Hornblende	—	—	2	—	—
Mica	—	1	3	—	—
Opaques	—	1	2	—	—
Quartz	2	—	75	60	30
Sponge spicules	—	—	1	—	—



SITE 717 HOLE C CORE 15X CORED INTERVAL 4847.2-4856.7 mbsl; 112.5-122.0 mbsf



LITHOLOGIC DESCRIPTION

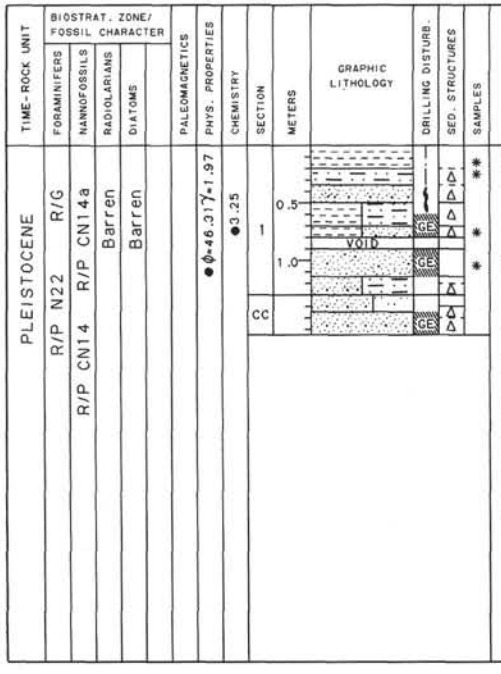
CLAYEY SILT

Major lithology: Clayey silt in many thin, upward-fining turbidite sequences, gray (2.5Y 5/0). Silt-rich bases of turbidite layers show gas escape texture.

SMEAR SLIDE SUMMARY (%):

	1, 70 D	1, 112 D	1, 130 D	2, 31 D	CC, 1 D	CC, 23 D
TEXTURE:						
Sand	—	—	—	—	5	10
Silt	90	12	12	98	93	90
Clay	10	88	88	2	2	—
COMPOSITION:						
Access. minerals	—	—	—	1	12	5
Clay	Tr	77	81	2		
Feldspar	20	3	2	3	Tr	Tr
Volcanic glass	—	—	Tr	—	—	—
Glauconite	2	2	1	—	—	—
Hornblende	3	1	1	—	—	—
Mica	4	2	3	1	1	1
Opaques	1	3	—	—	—	—
Quartz	70	12	12	93	87	94
Sponge spicules	Tr	—	Tr	Tr	—	—

SITE 717 HOLE C CORE 16X CORED INTERVAL 4856.7-4866.2 mbsl; 122.0-131.5 mbsf



LITHOLOGIC DESCRIPTION

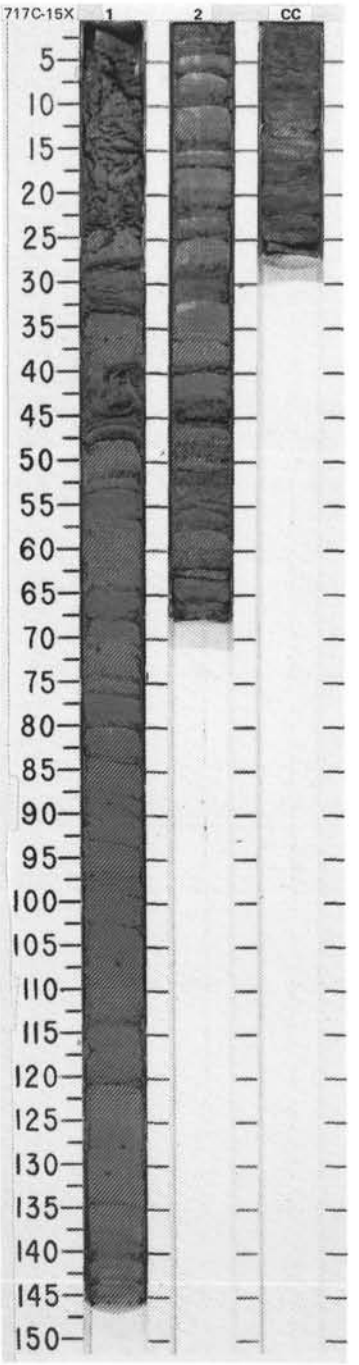
SANDY SILT and CLAYEY SILT

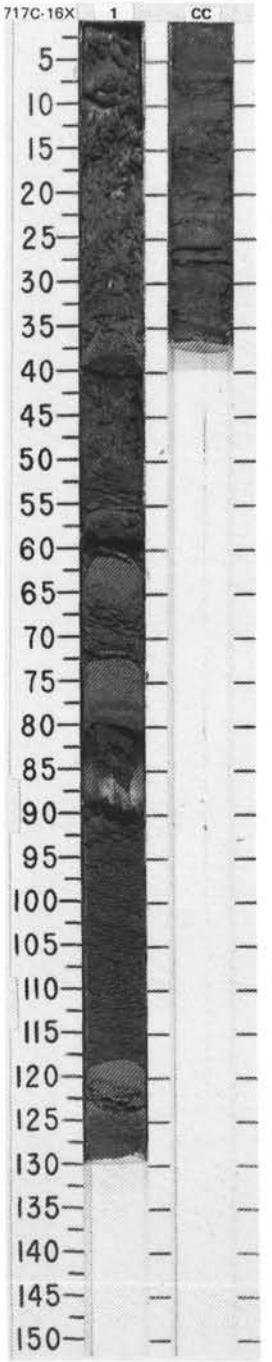
Drilling disturbance moderate to severe.

Major lithology: Several upward-fining turbidite sequences in sandy silt and clayey silt, dark gray (10Y 4/1). Gas escape texture occurs in silt.

SMEAR SLIDE SUMMARY (%):

	1, 15 D	1, 25 D	1, 75 D	1, 106 D
TEXTURE:				
Sand	—	—	—	10
Silt	5	20	1	85
Clay	95	80	99	5
COMPOSITION:				
Access. minerals	2	3	1	10
Clay	93	83	98	5
Feldspar	—	1	—	—
Mica	1	3	1	1
Plant debris	2	7	—	—
Quartz	2	3	—	84





CORE–717C–17I–NO RECOVERY

SITE 717 HOLE C CORE 18X CORED INTERVAL 4866.2-4875.7 mbsl; 131.5-141.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLEISTOCENE	Barren	R/P CN14a	Barren	Barren				CC				Δ	*

SAND

Major lithology: Sand sample in the CC, no core obtained. Slightly silty at the top. Dark gray (10Y 4/1) throughout. One graded, upward-fining bed.

SMEAR SLIDE SUMMARY (%):

	CC, 2 D	CC, 17 D
TEXTURE:		
Sand	11	99
Silt	86	1
Clay	2	—
COMPOSITION:		
Access. minerals	3	15
Clay	2	—
Feldspar	1	—
Mica	1	—
Quartz	93	85

SITE 717 HOLE C CORE 19X CORED INTERVAL 4875.7-4885.2 mbsl; 141.0-150.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLEISTOCENE	Barren	R/P CN14a	Barren	Barren		ϕ=53.68γ=1.87 ●	●6.08	1	0.5		GB	Δ	*
									1.0		GB	Δ	*
	Barren	R/P CN14a	Barren	Barren				CC					*

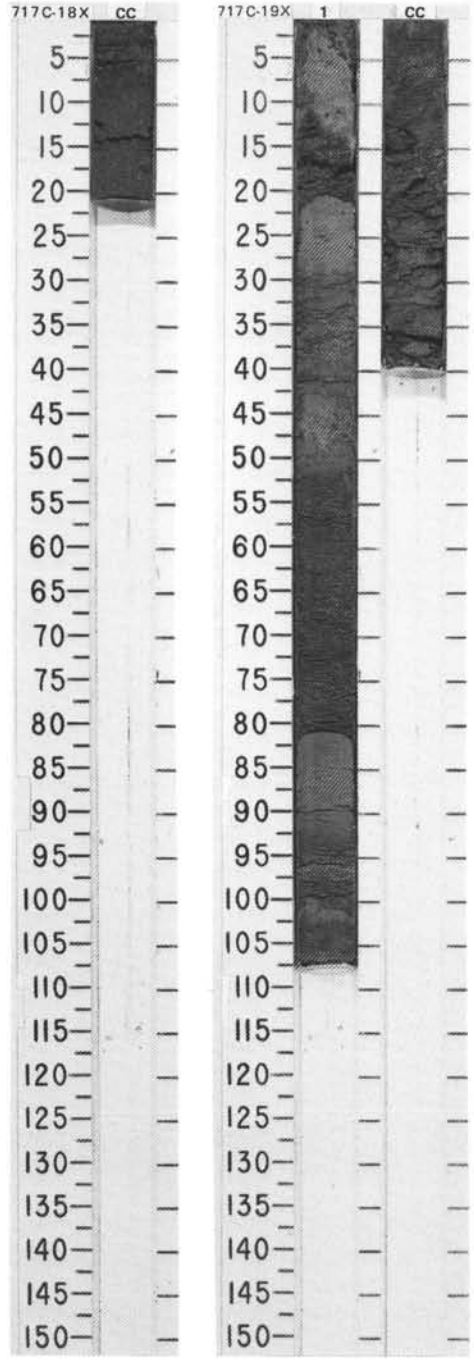
SANDY SILT

Severe drilling disturbance.

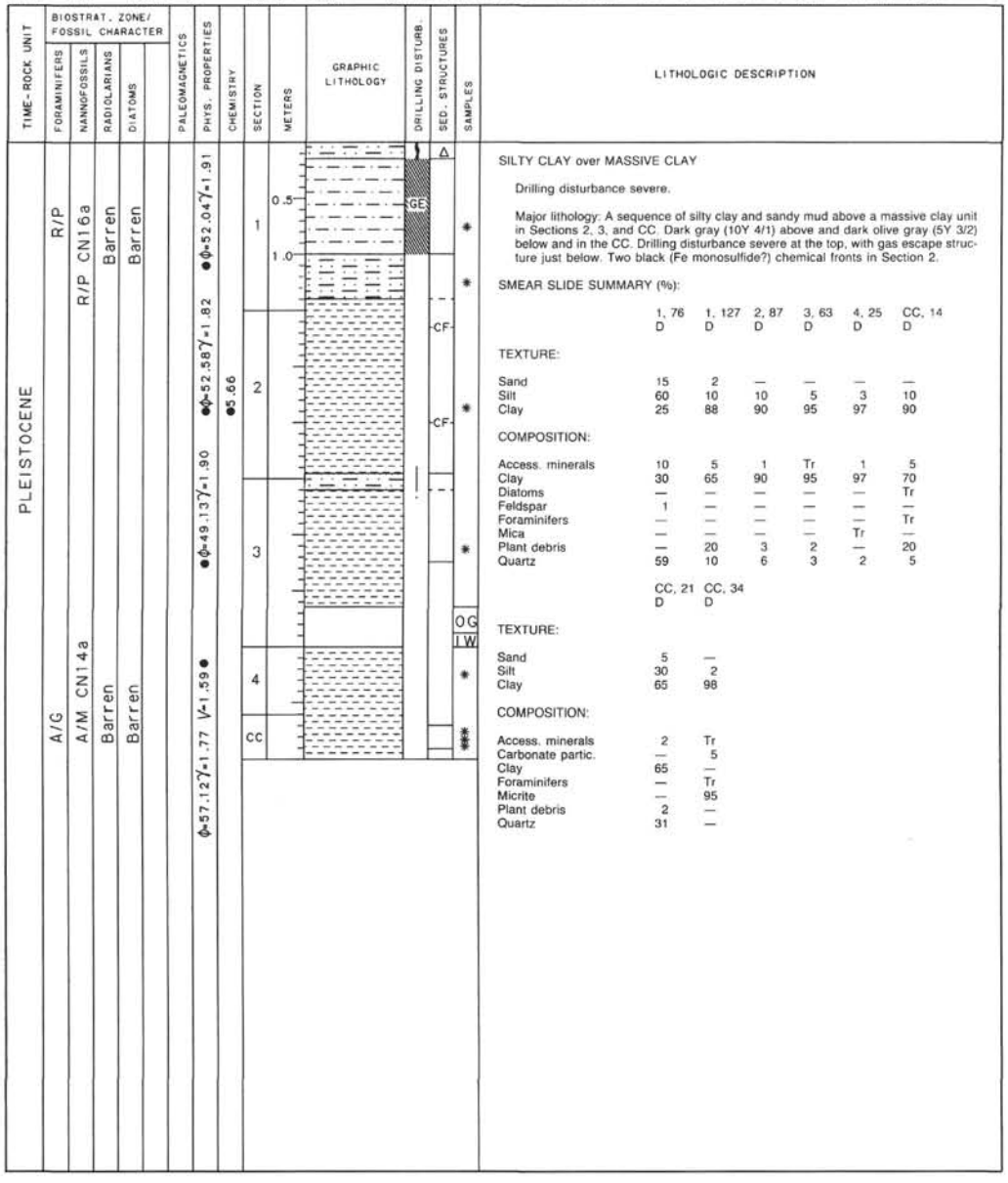
Major lithology: Sandy silt, three upward-fining turbidite packages. Uniformly dark gray (5Y 4/1). Severe drilling disturbance at top and in CC with gas escape fractures.

SMEAR SLIDE SUMMARY (%):

	1, 26 D	1, 67 D	CC, 12 D
TEXTURE:			
Sand	—	10	15
Silt	5	85	80
Clay	95	5	5
COMPOSITION:			
Access. minerals	5	10	10
Clay	78	—	5
Feldspar	2	1	
Mica	—	10	—
Plant debris	5	2	—
Quartz	10	77	85



SITE 717 HOLE C CORE 20X CORED INTERVAL 4885.2-4894.7 mbsl; 150.5-160.0 mbsf



LITHOLOGIC DESCRIPTION

SILTY CLAY over MASSIVE CLAY

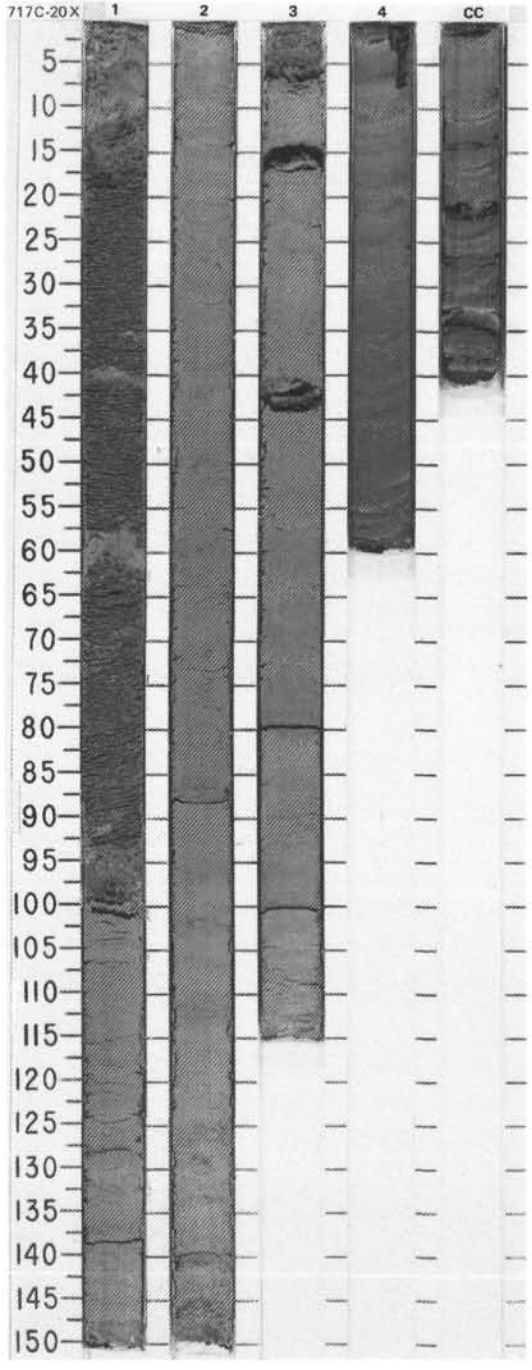
Drilling disturbance severe.

Major lithology: A sequence of silty clay and sandy mud above a massive clay unit in Sections 2, 3, and CC. Dark gray (10Y 4/1) above and dark olive gray (5Y 3/2) below and in the CC. Drilling disturbance severe at the top, with gas escape structure just below. Two black (Fe monosulfide?) chemical fronts in Section 2.

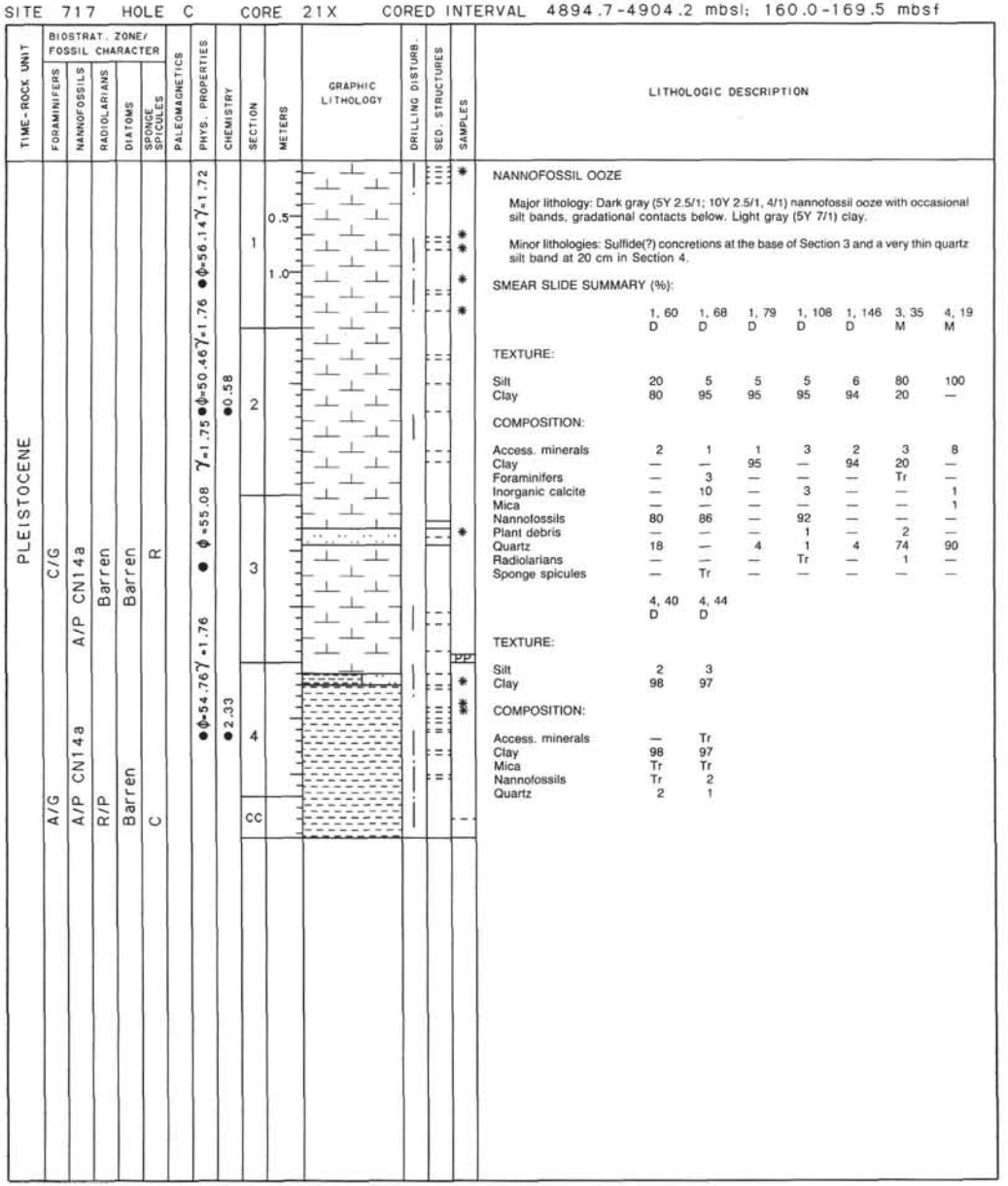
SMEAR SLIDE SUMMARY (%):

	1, 76 D	1, 127 D	2, 87 D	3, 63 D	4, 25 D	CC, 14 D
TEXTURE:						
Sand	15	2	—	—	—	—
Silt	60	10	10	5	3	10
Clay	25	88	90	95	97	90
COMPOSITION:						
Access. minerals	10	5	1	Tr	1	5
Clay	30	65	90	95	97	70
Diatoms	—	—	—	—	—	Tr
Feldspar	1	—	—	—	—	—
Foraminifers	—	—	—	—	—	Tr
Mica	—	—	—	—	Tr	—
Plant debris	—	20	3	2	—	20
Quartz	59	10	6	3	2	5

	CC, 21 D	CC, 34 D
TEXTURE:		
Sand	5	—
Silt	30	2
Clay	65	98
COMPOSITION:		
Access. minerals	2	Tr
Carbonate partic.	—	5
Clay	65	—
Foraminifers	—	Tr
Micrite	—	95
Plant debris	2	—
Quartz	31	—



SITE 717 HOLE C CORE 21X CORED INTERVAL 4894.7-4904.2 mbsl; 160.0-169.5 mbsf



LITHOLOGIC DESCRIPTION

NANNOFOSSIL OOZE

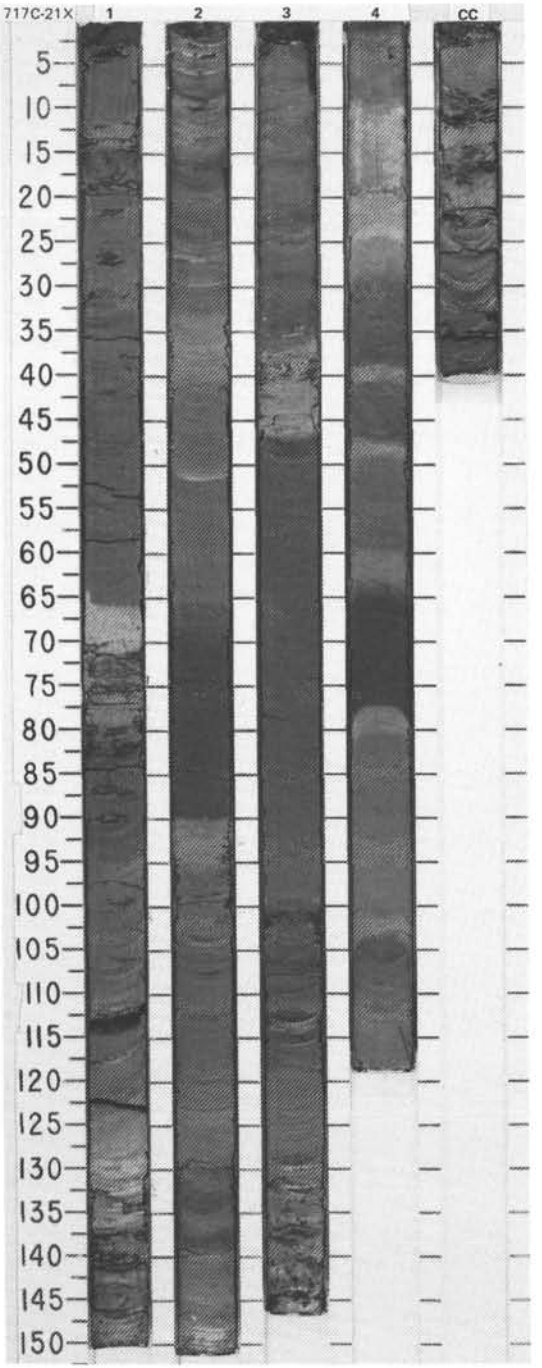
Major lithology: Dark gray (5Y 2.5/1; 10Y 2.5/1, 4/1) nannofossil ooze with occasional silt bands, gradational contacts below. Light gray (5Y 7/1) clay.

Minor lithologies: Sulfide(?) concretions at the base of Section 3 and a very thin quartz silt band at 20 cm in Section 4.

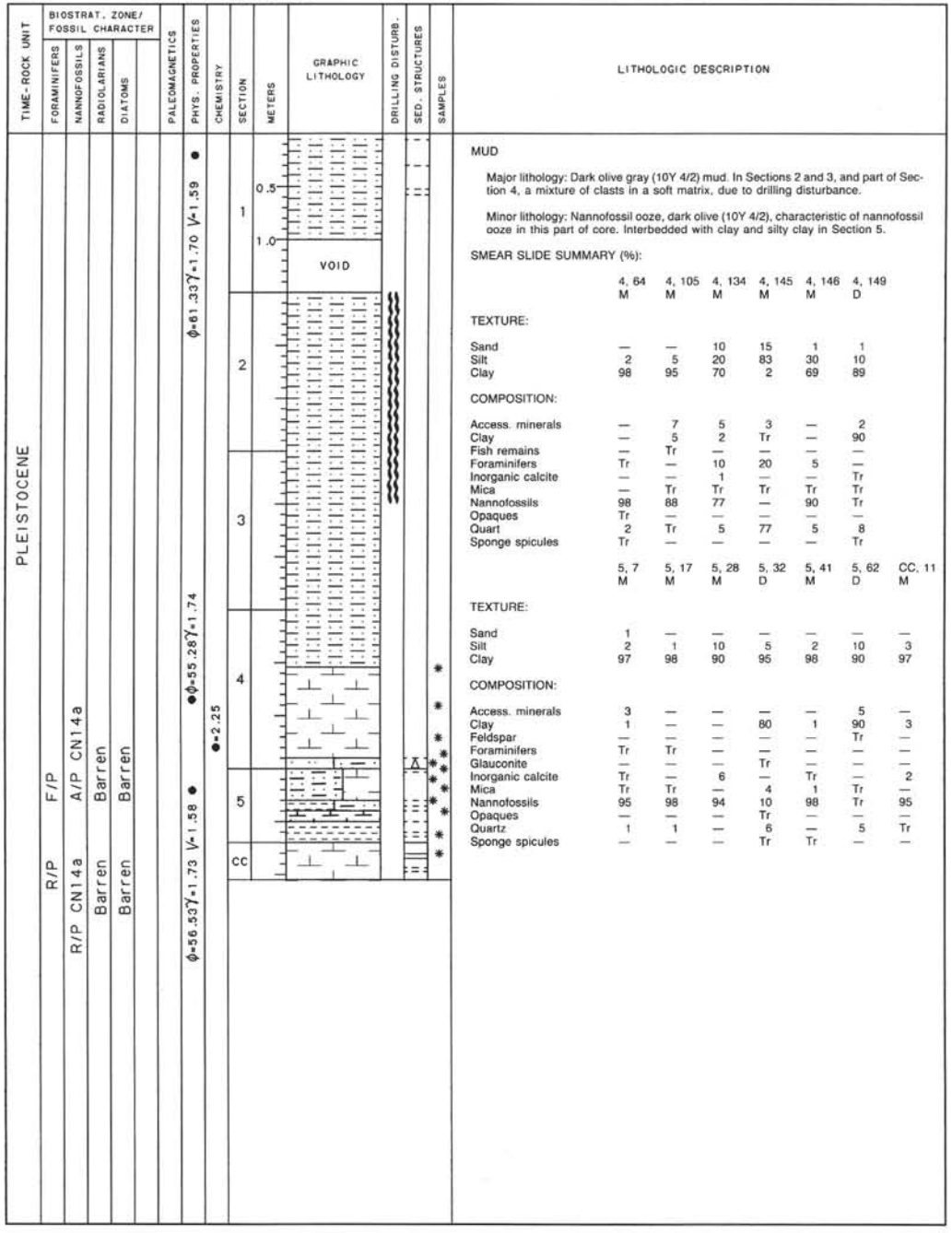
SMEAR SLIDE SUMMARY (%):

	1, 60 D	1, 68 D	1, 79 D	1, 108 D	1, 146 D	3, 35 M	4, 19 M
TEXTURE:							
Silt	20	5	5	5	6	80	100
Clay	80	95	95	95	94	20	—
COMPOSITION:							
Access. minerals	2	1	1	3	2	3	8
Clay	—	—	95	—	94	20	—
Foraminifers	—	3	—	—	—	Tr	—
Inorganic calcite	—	10	—	3	—	—	1
Mica	—	—	—	—	—	—	1
Nannofossils	80	86	—	92	—	—	—
Plant debris	—	—	—	1	—	2	—
Quartz	18	—	4	1	4	74	90
Radiolarians	—	—	—	Tr	—	1	—
Sponge spicules	—	Tr	—	—	—	—	—

	4, 40 D	4, 44 D
TEXTURE:		
Silt	2	3
Clay	98	97
COMPOSITION:		
Access. minerals	—	Tr
Clay	98	97
Mica	Tr	Tr
Nannofossils	Tr	2
Quartz	2	1



SITE 717 HOLE C CORE 22X CORED INTERVAL 4904.2-4913.7 mbsl; 169.5-179.0 mbsf



LITHOLOGIC DESCRIPTION

MUD

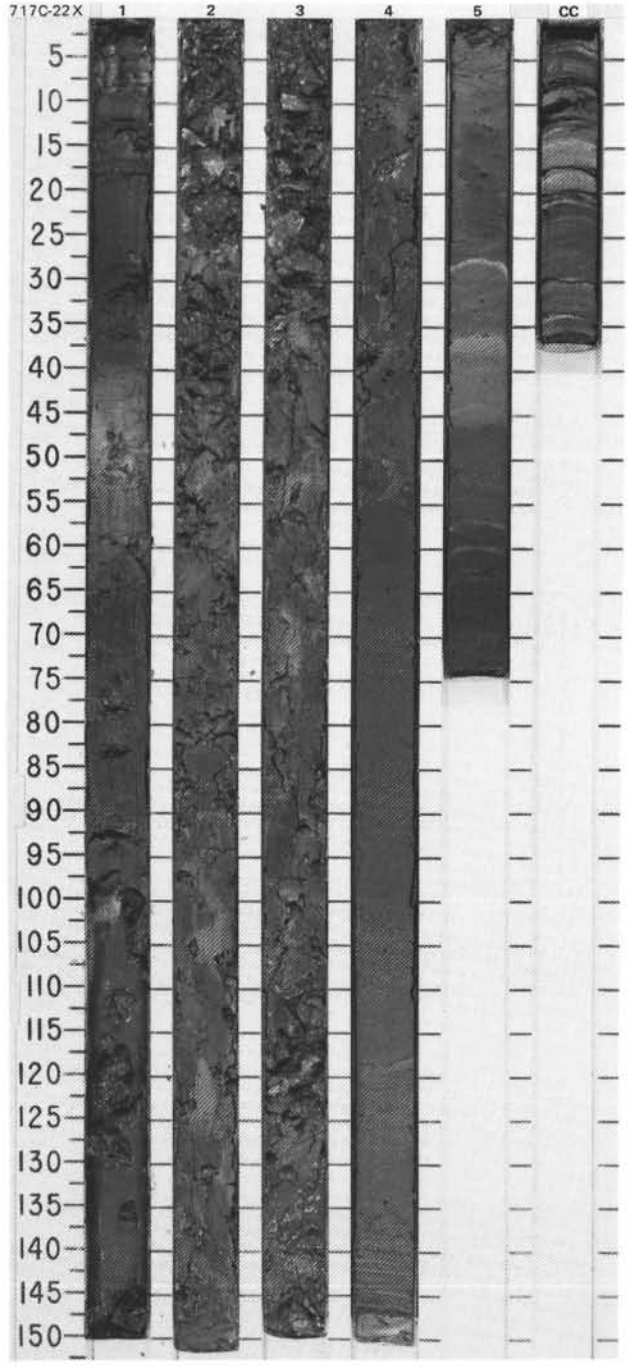
Major lithology: Dark olive gray (10Y 4/2) mud. In Sections 2 and 3, and part of Section 4, a mixture of clasts in a soft matrix, due to drilling disturbance.

Minor lithology: Nannofossil ooze, dark olive (10Y 4/2), characteristic of nannofossil ooze in this part of core. Interbedded with clay and silty clay in Section 5.

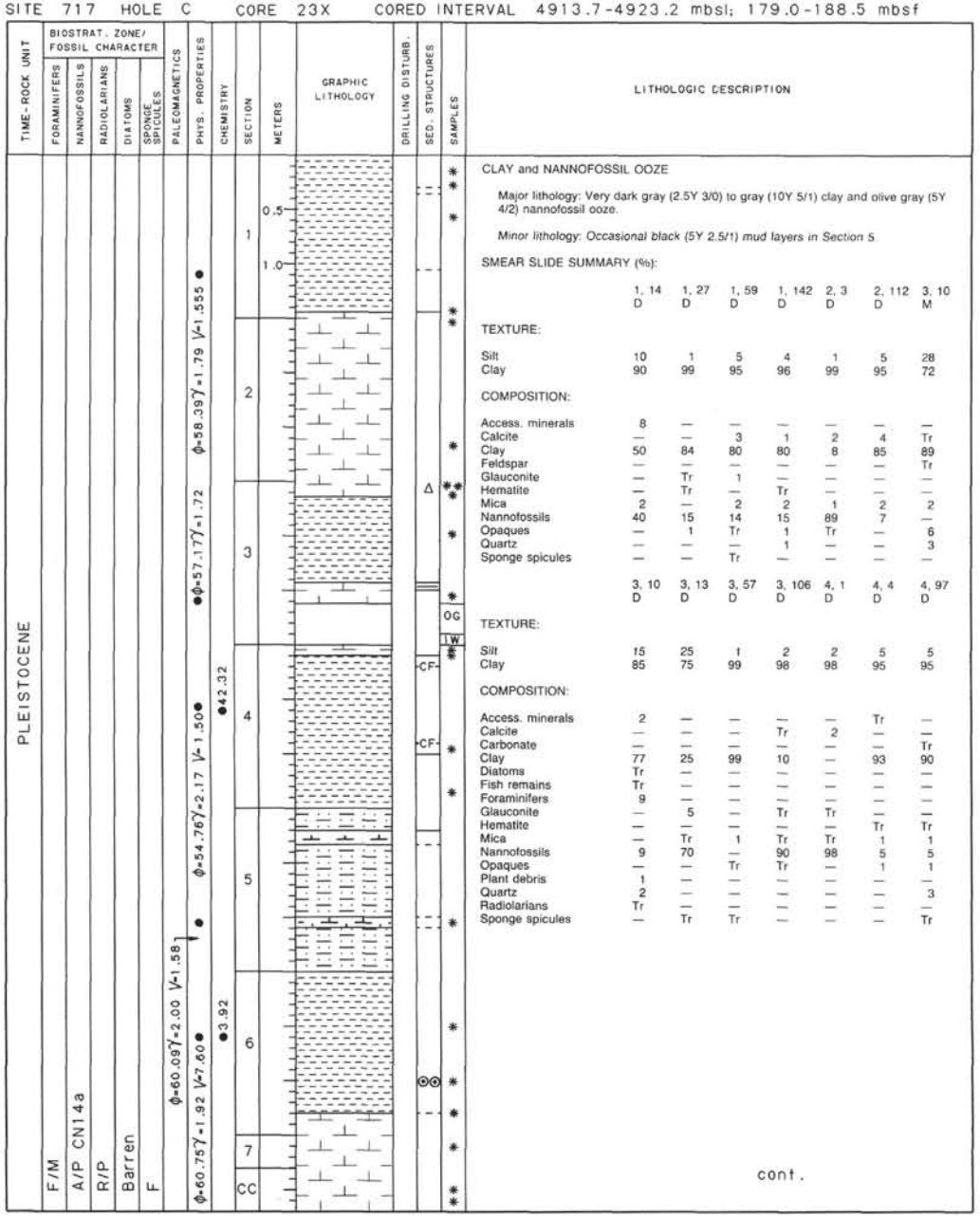
SMEAR SLIDE SUMMARY (%):

	4, 64 M	4, 105 M	4, 134 M	4, 145 M	4, 146 M	4, 149 D
TEXTURE:						
Sand	—	—	10	15	1	1
Silt	2	5	20	83	30	10
Clay	98	95	70	2	69	89
COMPOSITION:						
Access. minerals	—	7	5	3	—	2
Clay	—	5	2	Tr	—	90
Fish remains	—	Tr	—	—	—	—
Foraminifers	Tr	—	10	20	5	—
Inorganic calcite	—	—	1	—	—	Tr
Mica	—	Tr	Tr	Tr	Tr	Tr
Nannofossils	98	88	77	—	90	Tr
Opaques	Tr	—	—	—	—	—
Quart	2	Tr	5	77	5	8
Sponge spicules	Tr	—	—	—	—	Tr

	5, 7 M	5, 17 M	5, 28 M	5, 32 D	5, 41 M	5, 62 D	CC, 11 M
TEXTURE:							
Sand	1	—	—	—	—	—	—
Silt	2	1	10	5	2	10	3
Clay	97	98	90	95	98	90	97
COMPOSITION:							
Access. minerals	3	—	—	—	—	5	—
Clay	1	—	—	80	1	90	3
Feldspar	—	—	—	—	—	Tr	—
Foraminifers	Tr	Tr	—	—	—	—	—
Glauconite	—	—	—	Tr	—	—	—
Inorganic calcite	Tr	—	6	—	Tr	—	2
Mica	Tr	Tr	—	4	1	Tr	—
Nannofossils	95	98	94	10	98	Tr	95
Opaques	—	—	—	Tr	—	—	—
Quartz	1	1	—	6	—	5	Tr
Sponge spicules	—	—	—	Tr	Tr	—	—



SITE 717 HOLE C CORE 23X CORED INTERVAL 4913.7-4923.2 mbsl; 179.0-188.5 mbsf



LITHOLOGIC DESCRIPTION

CLAY and NANNOFOSSIL OOZE

Major lithology: Very dark gray (2.5Y 3/0) to gray (10Y 5/1) clay and olive gray (5Y 4/2) nannofossil ooze.

Minor lithology: Occasional black (5Y 2.5/1) mud layers in Section 5.

SMEAR SLIDE SUMMARY (%):

	1, 14 D	1, 27 D	1, 59 D	1, 142 D	2, 3 D	2, 112 D	3, 10 M
TEXTURE:							
Silt	10	1	5	4	1	5	28
Clay	90	99	95	96	99	95	72
COMPOSITION:							
Access. minerals	8	—	—	—	—	—	—
Calcite	—	—	3	1	2	4	Tr
Clay	50	84	80	80	8	85	89
Feldspar	—	—	—	—	—	—	Tr
Glauconite	—	Tr	1	—	—	—	—
Hematite	—	Tr	—	Tr	—	—	—
Mica	2	—	2	2	1	2	2
Nannofossils	40	15	14	15	89	7	—
Opaques	—	1	Tr	1	Tr	—	6
Quartz	—	—	—	1	—	—	3
Sponge spicules	—	—	Tr	—	—	—	—

	3, 10 D	3, 13 D	3, 57 D	3, 106 D	4, 1 D	4, 4 D	4, 97 D
TEXTURE:							
Silt	15	25	1	2	2	5	5
Clay	85	75	99	98	98	95	95
COMPOSITION:							
Access. minerals	2	—	—	—	—	Tr	—
Calcite	—	—	—	Tr	2	—	—
Carbonate	—	—	—	—	—	—	Tr
Clay	77	25	99	10	—	93	90
Diatoms	Tr	—	—	—	—	—	—
Fish remains	Tr	—	—	—	—	—	—
Foraminifers	9	—	—	—	—	—	—
Glauconite	—	5	—	Tr	Tr	—	—
Hematite	—	—	—	—	—	Tr	Tr
Mica	—	Tr	1	Tr	Tr	1	1
Nannofossils	9	70	—	90	98	5	5
Opaques	—	—	Tr	Tr	—	1	1
Plant debris	1	—	—	—	—	—	—
Quartz	2	—	—	—	—	—	3
Radiolarians	Tr	—	—	—	—	—	—
Sponge spicules	—	Tr	Tr	—	—	—	Tr

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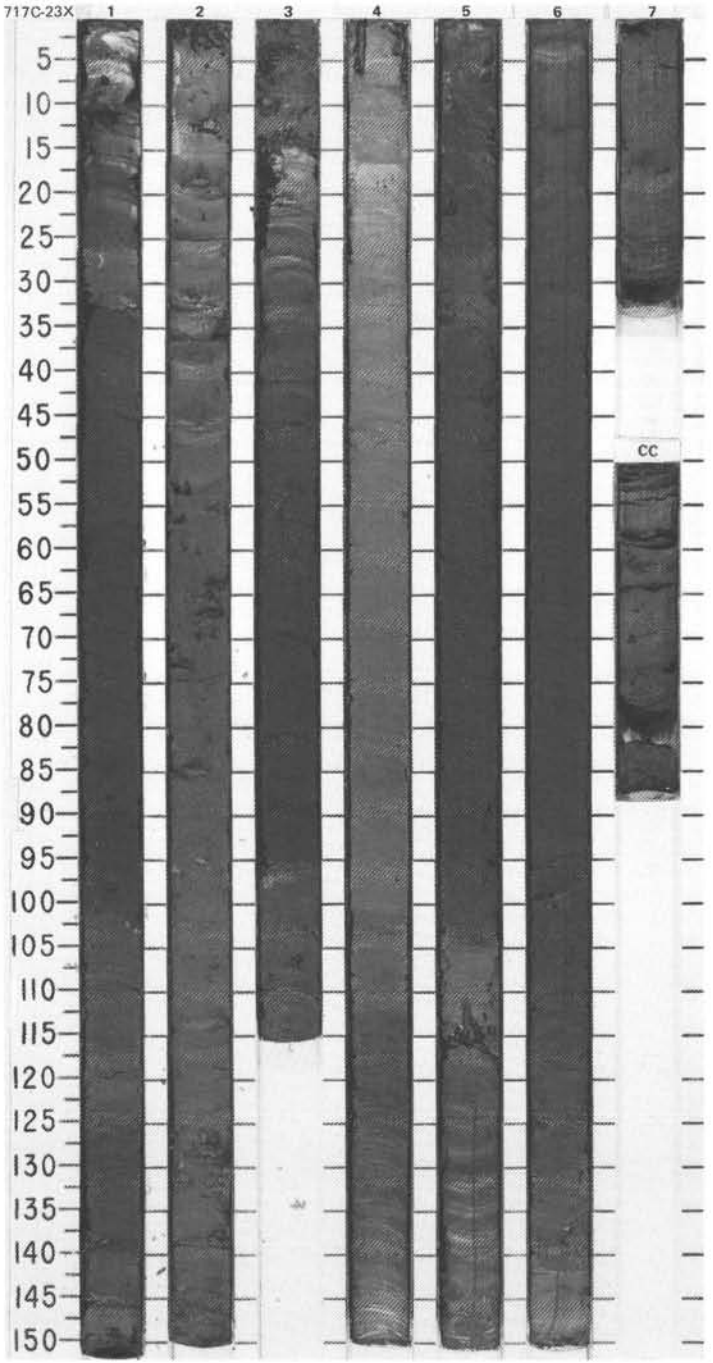


SITE 717 HOLE C CORE 23X CORED INTERVAL 4913.7-4823.2 mbsl; 179.0-188.5 mbsf

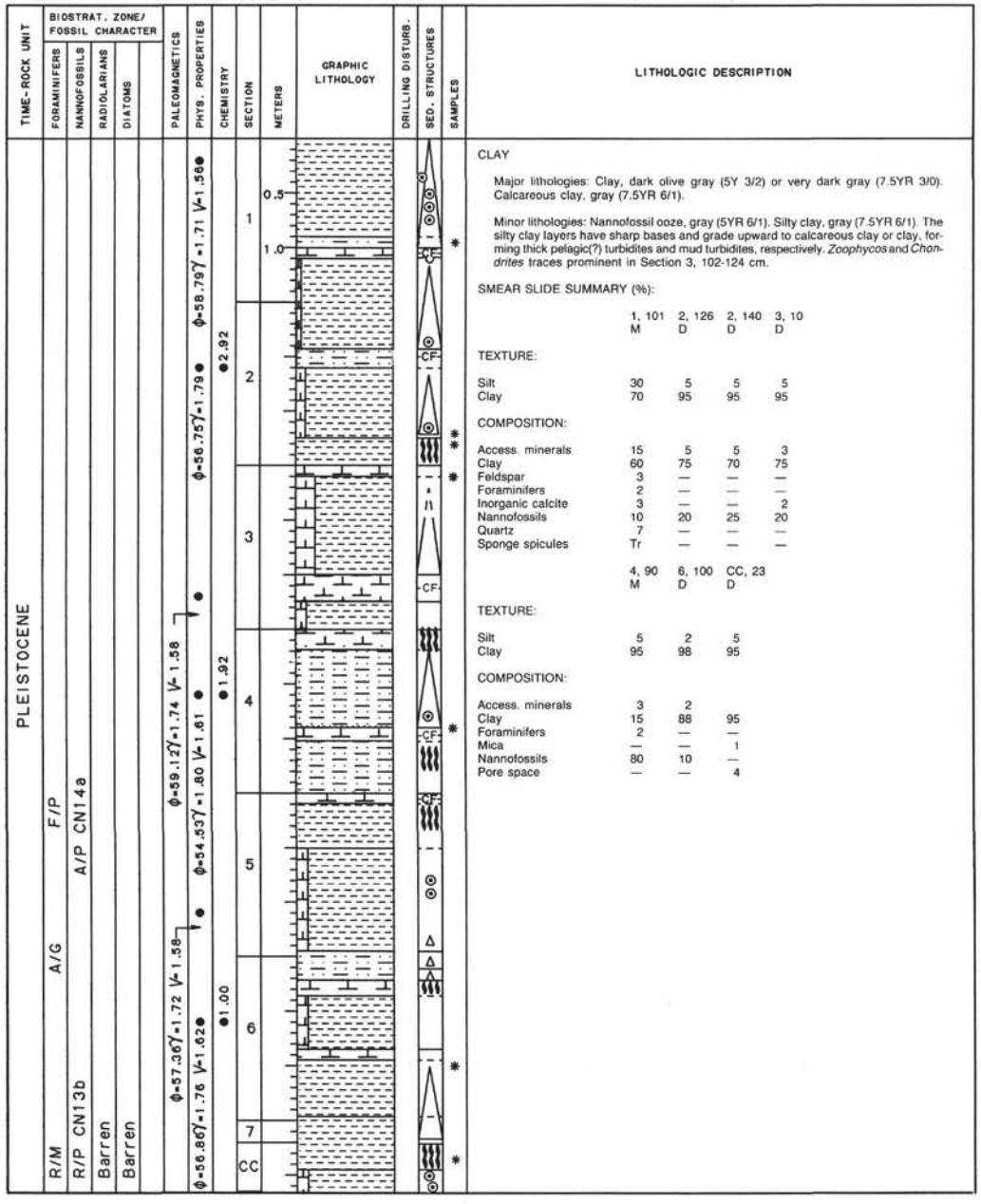
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
									1	0.5 1.0				
									2					
									3					

LITHOLOGIC DESCRIPTION

	4, 140 D	5, 109 D	6, 59 D	6, 98 D	6, 133 D	7, 15 D	CC, 25 D
TEXTURE:							
Sand	—	—	—	—	—	3	—
Silt	5	1	1	1	5	12	8
Clay	95	99	99	99	95	85	92
COMPOSITION:							
Calcite	—	Tr	Tr	Tr	2	2	2
Carbonate	Tr	—	—	—	—	—	—
Clay	90	5	28	6	—	70	10
Glauconite	1	Tr	Tr	—	1	2	1
Mica	1	Tr	1	—	1	4	—
Nannofossils	5	95	70	90	95	15	85
Opaques	Tr	—	—	4	1	1	Tr
Quartz	3	—	—	—	—	5	1
Sillimanite	—	—	—	—	—	1	—
Sponge spicules	—	—	—	—	Tr	Tr	1

	CC, 34 D
TEXTURE:	
Silt	2
Clay	98
COMPOSITION:	
Clay	10
Mica	1
Nannofossils	87
Opaques	2
Sillimanite	Tr

SITE 717 HOLE C CORE 24X CORED INTERVAL 4923.2-4932.7 mbsl; 188.5-198.0 mbsf



LITHOLOGIC DESCRIPTION

CLAY

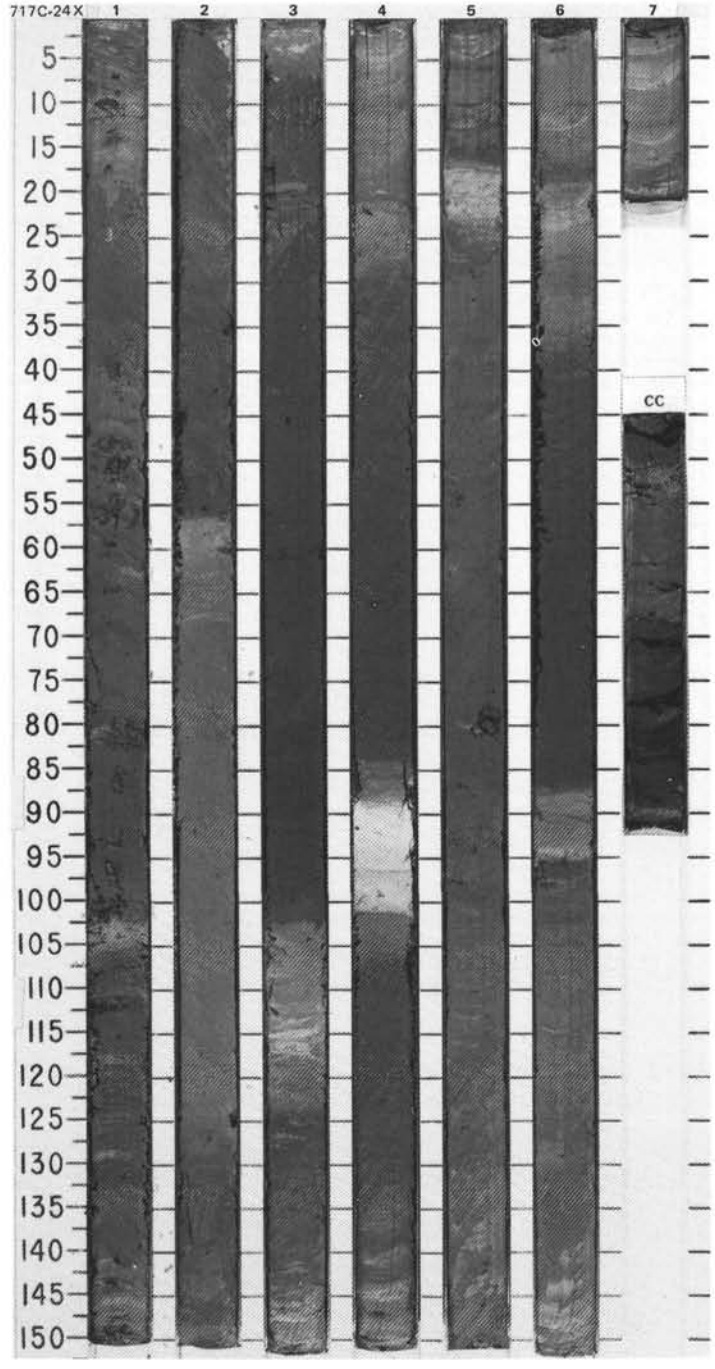
Major lithologies: Clay, dark olive gray (5Y 3/2) or very dark gray (7.5YR 3/0). Calcareous clay, gray (7.5YR 6/1).

Minor lithologies: Nannofossil ooze, gray (5YR 6/1). Silty clay, gray (7.5YR 6/1). The silty clay layers have sharp bases and grade upward to calcareous clay or clay, forming thick pelagic(?) turbidites and mud turbidites, respectively. *Zoophycos* and *Chondrites* traces prominent in Section 3, 102-124 cm.

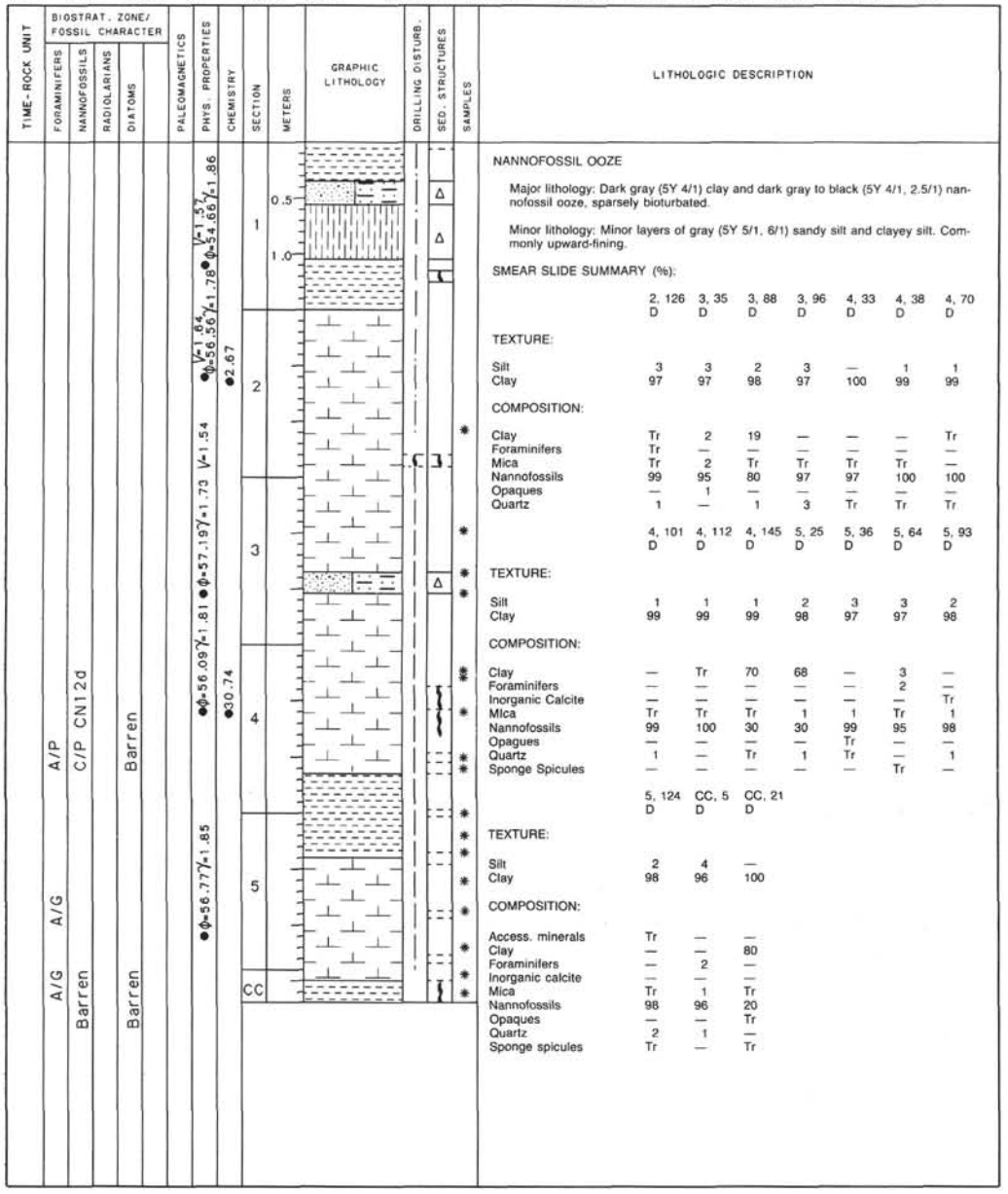
SMEAR SLIDE SUMMARY (%):

	1, 101 M	2, 126 D	2, 140 D	3, 10 D
TEXTURE:				
Silt	30	5	5	5
Clay	70	95	95	95
COMPOSITION:				
Access. minerals	15	5	5	3
Clay	60	75	70	75
Feldspar	3	—	—	—
Foraminifers	2	—	—	—
Inorganic calcite	3	—	—	2
Nannofossils	10	20	25	20
Quartz	7	—	—	—
Sponge spicules	Tr	—	—	—

	4, 90 M	6, 100 D	CC, 23 D
TEXTURE:			
Silt	5	2	5
Clay	95	98	95
COMPOSITION:			
Access. minerals	3	2	
Clay	15	88	95
Foraminifers	2	—	—
Mica	—	—	1
Nannofossils	80	10	—
Pore space	—	—	4



SITE 717 HOLE C CORE 25X CORED INTERVAL 4932.7-4942.2 mbsl; 198.0-207.5 mbsf



LITHOLOGIC DESCRIPTION

NANNOFOSSIL OOZE

Major lithology: Dark gray (5Y 4/1) clay and dark gray to black (5Y 4/1, 2.5/1) nannofossil ooze, sparsely bioturbated.

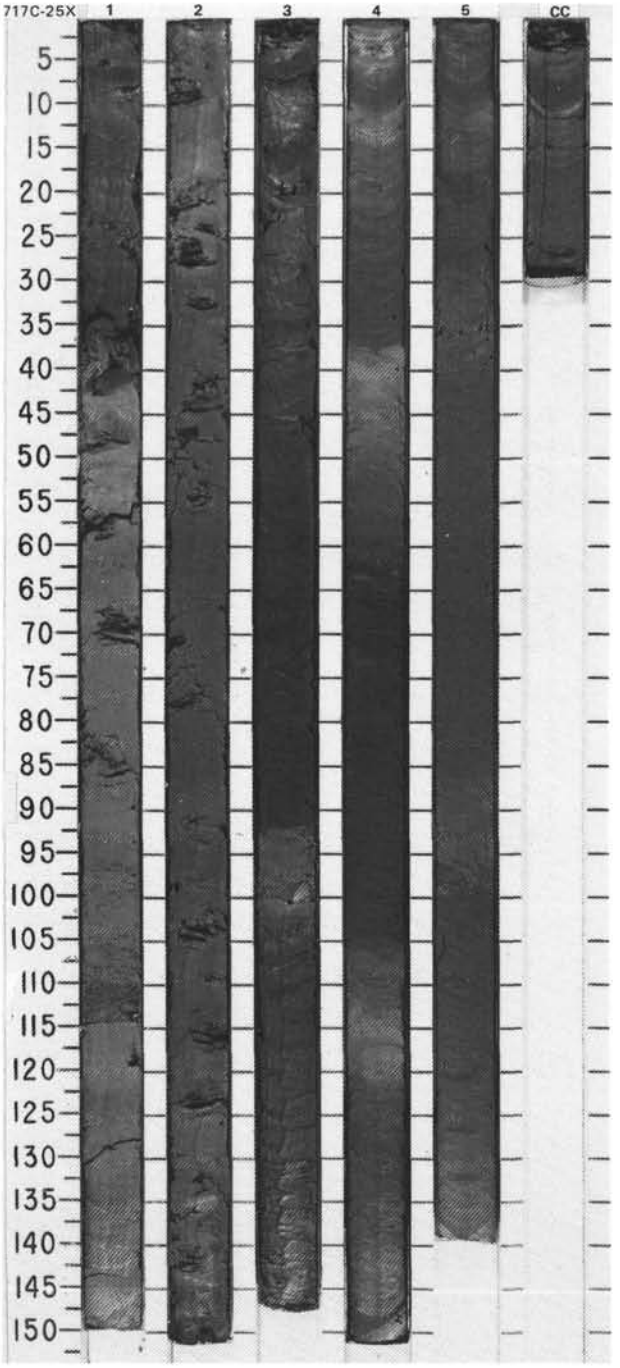
Minor lithology: Minor layers of gray (5Y 5/1, 6/1) sandy silt and clayey silt. Commonly upward-fining.

SMEAR SLIDE SUMMARY (%):

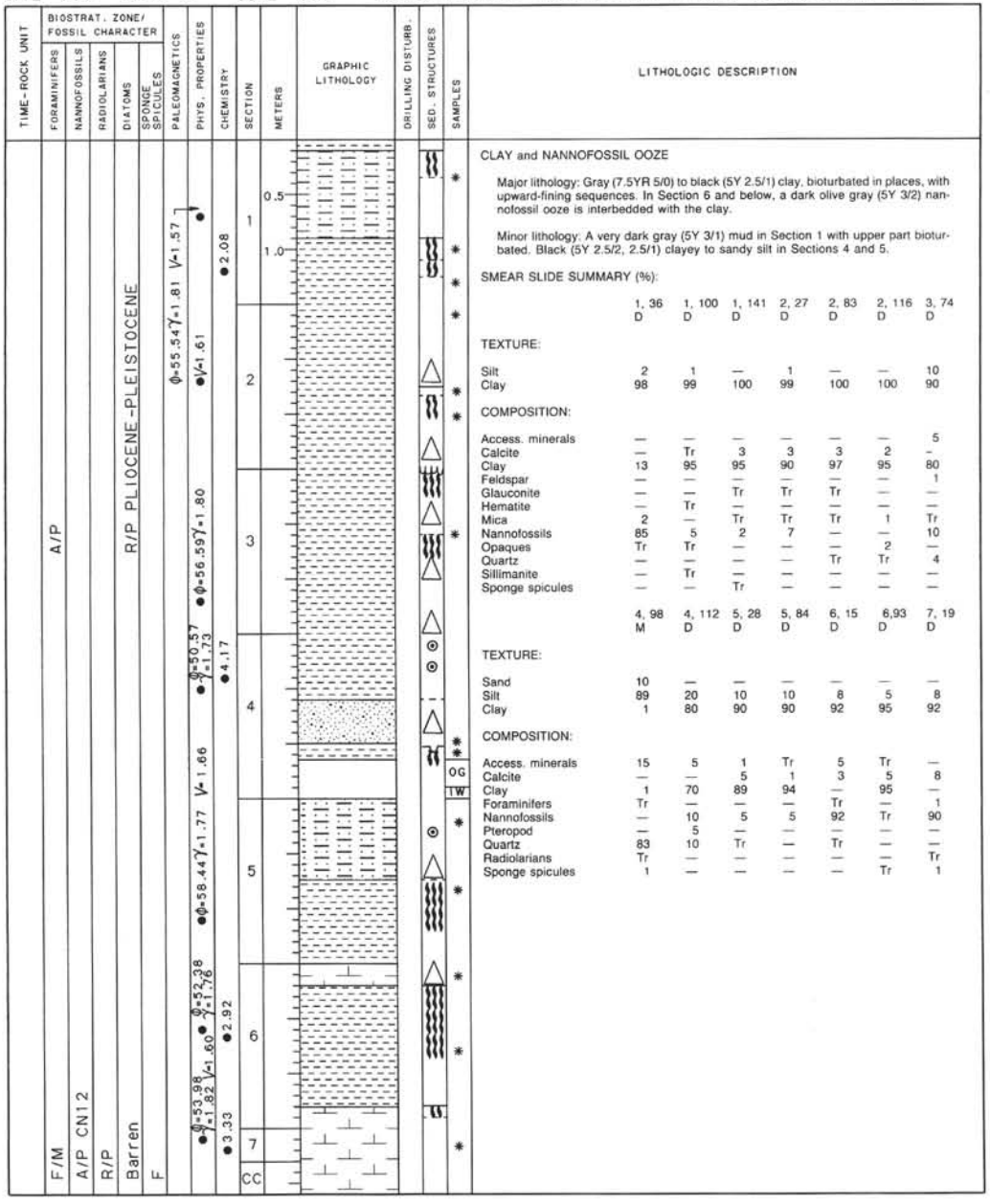
	2, 126 D	3, 35 D	3, 88 D	3, 96 D	4, 33 D	4, 38 D	4, 70 D
TEXTURE:							
Silt	3	3	2	3	—	1	1
Clay	97	97	98	97	100	99	99
COMPOSITION:							
Clay	Tr	2	19	—	—	—	Tr
Foraminifers	Tr	—	—	—	—	—	—
Mica	Tr	2	Tr	Tr	Tr	Tr	—
Nannofossils	99	95	80	97	97	100	100
Opaques	—	1	—	—	—	—	—
Quartz	1	—	1	3	Tr	Tr	Tr

	4, 101 D	4, 112 D	4, 145 D	5, 25 D	5, 36 D	5, 64 D	5, 93 D
TEXTURE:							
Silt	1	1	1	2	3	3	2
Clay	99	99	99	98	97	97	98
COMPOSITION:							
Clay	—	Tr	70	68	—	3	—
Foraminifers	—	—	—	—	—	2	—
Inorganic Calcite	—	—	—	—	—	—	Tr
Mica	Tr	Tr	Tr	1	1	Tr	1
Nannofossils	99	100	30	30	99	95	98
Opagues	—	—	—	—	Tr	—	—
Quartz	1	—	Tr	1	Tr	—	1
Sponge Spicules	—	—	—	—	—	Tr	—

	5, 124 D	CC, 5 D	CC, 21 D
TEXTURE:			
Silt	2	4	—
Clay	98	96	100
COMPOSITION:			
Access. minerals	Tr	—	—
Clay	—	—	80
Foraminifers	—	2	—
Inorganic calcite	—	—	—
Mica	Tr	1	Tr
Nannofossils	98	96	20
Opaques	—	—	Tr
Quartz	2	1	—
Sponge spicules	Tr	—	Tr



SITE 717 HOLE C CORE 26X CORED INTERVAL 4942.2-4951.7 mbsl; 207.5-217.0 mbsf



LITHOLOGIC DESCRIPTION

CLAY and NANNOFOSSIL OOZE

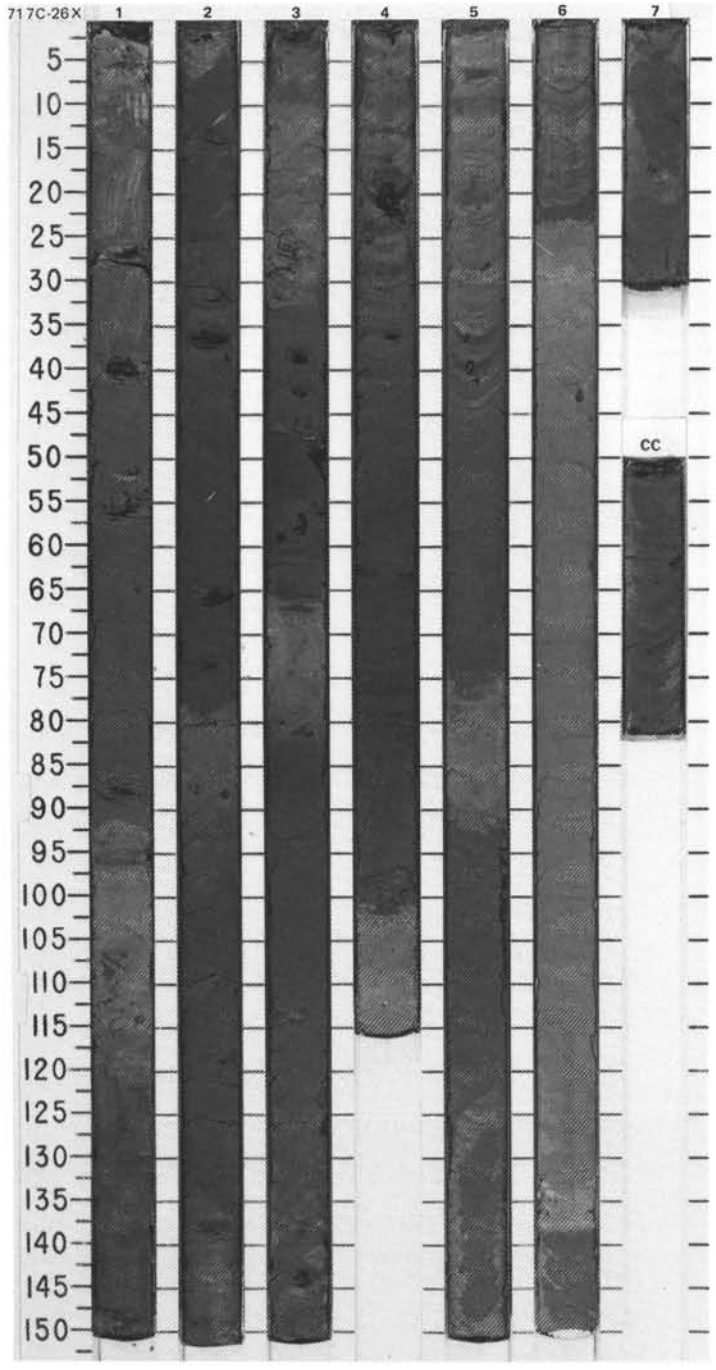
Major lithology: Gray (7.5YR 5/0) to black (5Y 2.5/1) clay, bioturbated in places, with upward-fining sequences. In Section 6 and below, a dark olive gray (5Y 3/2) nannofossil ooze is interbedded with the clay.

Minor lithology: A very dark gray (5Y 3/1) mud in Section 1 with upper part bioturbated. Black (5Y 2.5/2, 2.5/1) clayey to sandy silt in Sections 4 and 5.

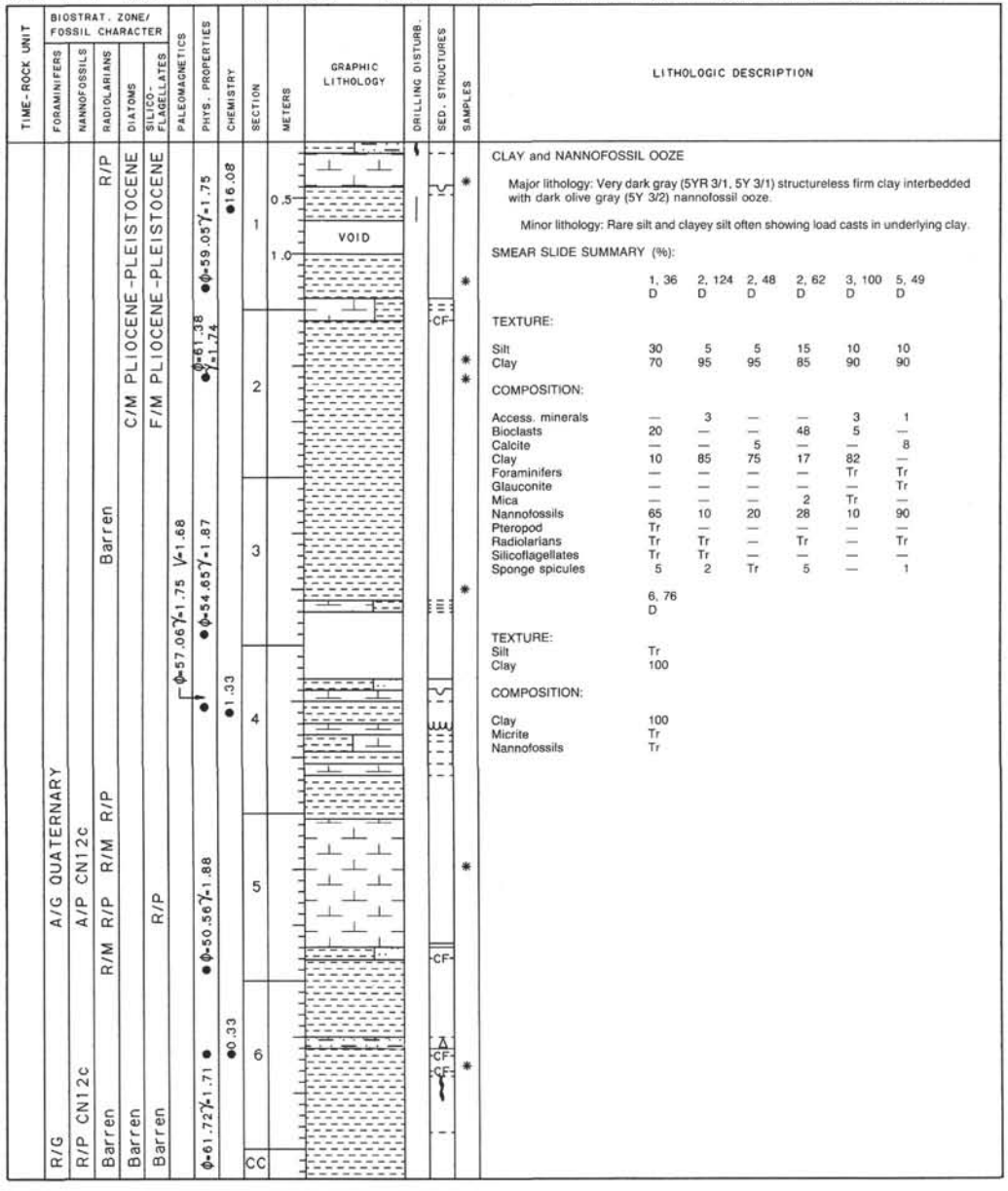
SMEAR SLIDE SUMMARY (%):

	1, 36 D	1, 100 D	1, 141 D	2, 27 D	2, 83 D	2, 116 D	3, 74 D
TEXTURE:							
Silt	2	1	—	1	—	—	10
Clay	98	99	100	99	100	100	90
COMPOSITION:							
Access. minerals	—	—	—	—	—	—	5
Calcite	—	Tr	3	3	3	2	-
Clay	13	95	95	90	97	95	80
Feldspar	—	—	—	—	—	—	1
Glauconite	—	—	Tr	Tr	Tr	—	—
Hematite	—	Tr	—	—	—	—	—
Mica	2	—	Tr	Tr	Tr	1	Tr
Nannofossils	85	5	2	7	—	—	10
Opaques	Tr	Tr	—	—	—	2	—
Quartz	—	—	—	—	Tr	Tr	4
Sillimanite	—	Tr	—	—	—	—	—
Sponge spicules	—	—	Tr	—	—	—	—

	4, 98 M	4, 112 D	5, 28 D	5, 84 D	6, 15 D	6,93 D	7, 19 D
TEXTURE:							
Sand	10	—	—	—	—	—	—
Silt	89	20	10	10	8	5	8
Clay	1	80	90	90	92	95	92
COMPOSITION:							
Access. minerals	15	5	1	Tr	5	Tr	—
Calcite	—	—	5	1	3	5	8
Clay	1	70	89	94	—	95	—
Foraminifers	Tr	—	—	—	Tr	—	1
Nannofossils	—	10	5	5	92	Tr	90
Pteropod	—	5	—	—	—	—	—
Quartz	83	10	Tr	—	Tr	—	—
Radiolarians	Tr	—	—	—	—	—	Tr
Sponge spicules	1	—	—	—	—	Tr	1



SITE 717 HOLE C CORE 27X CORED INTERVAL 4951.7-4961.2 mbsl; 217.0-226.5 mbsf



LITHOLOGIC DESCRIPTION

CLAY and NANNOFOSSIL OOZE

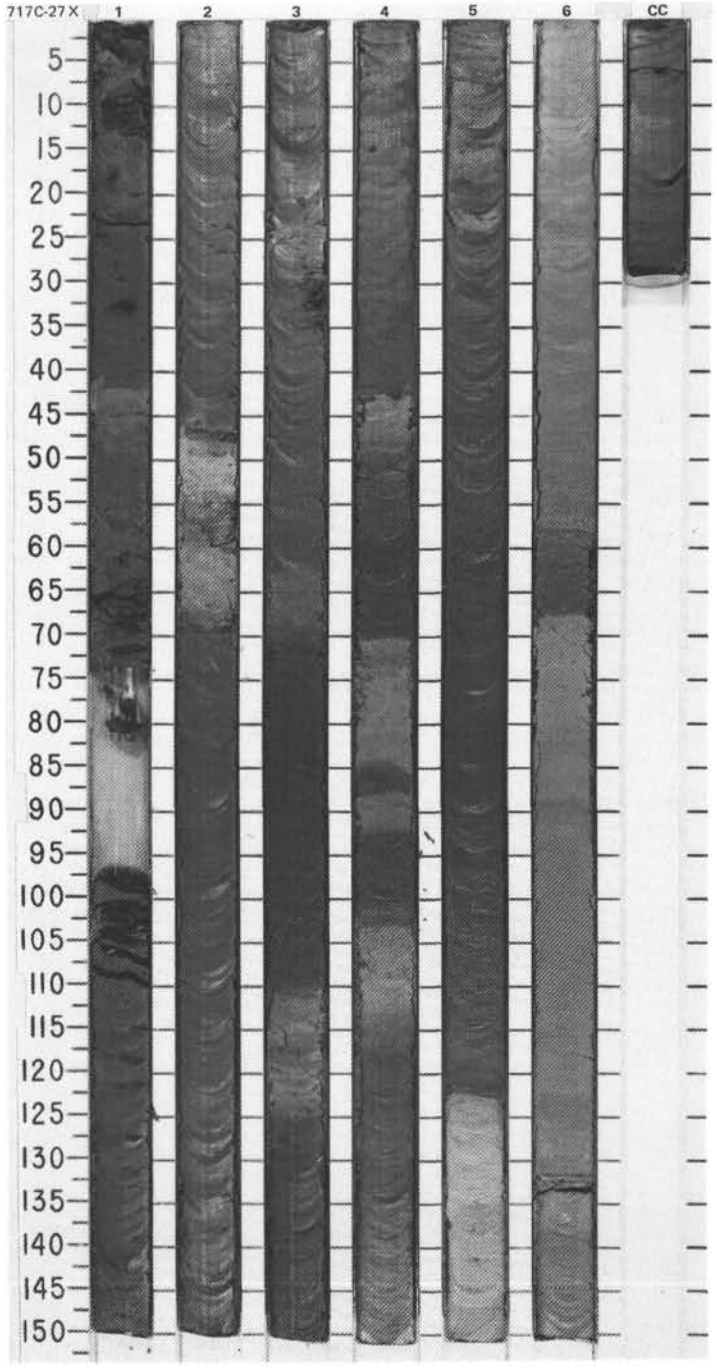
Major lithology: Very dark gray (5YR 3/1, 5Y 3/1) structureless firm clay interbedded with dark olive gray (5Y 3/2) nannofossil ooze.

Minor lithology: Rare silt and clayey silt often showing load casts in underlying clay.

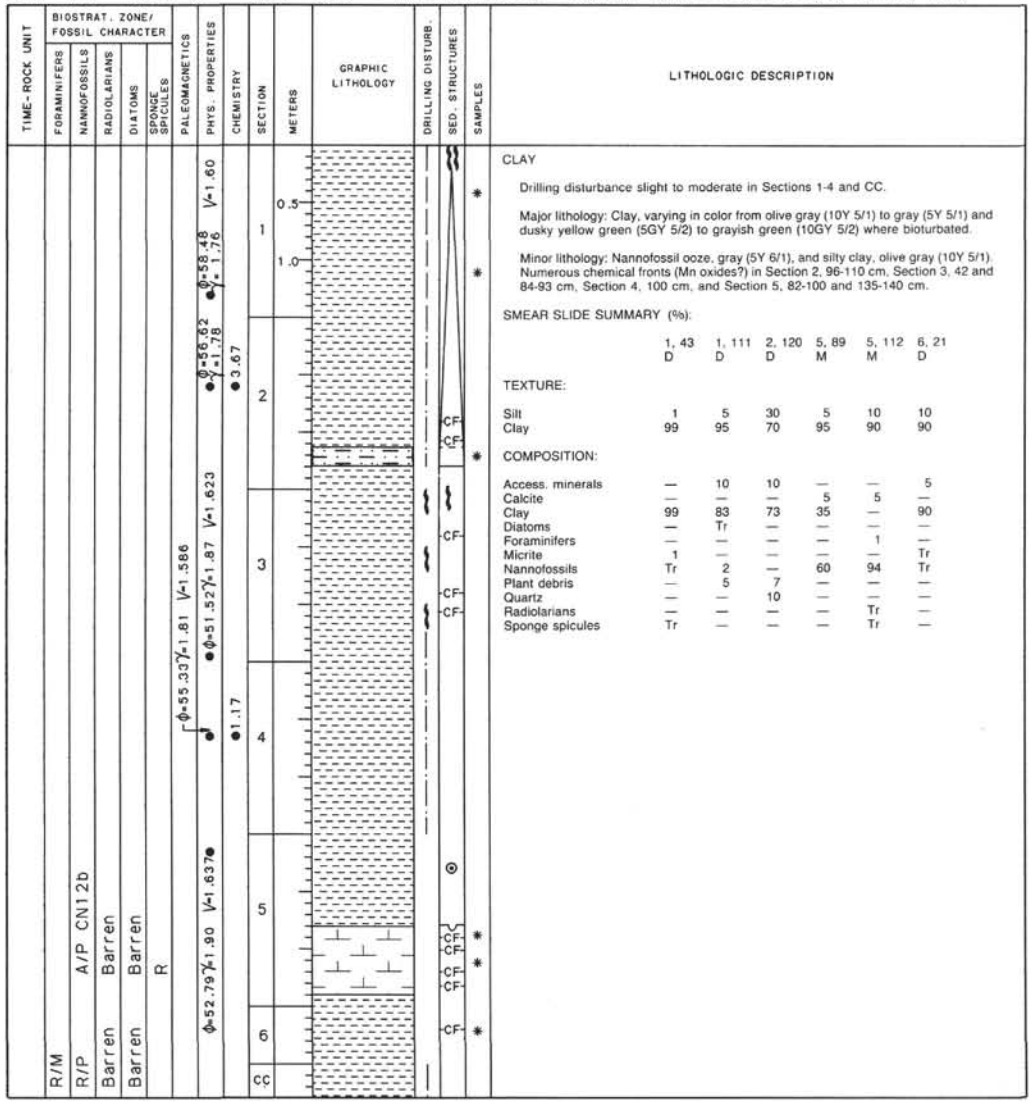
SMEAR SLIDE SUMMARY (%):

	1, 36	2, 124	2, 48	2, 62	3, 100	5, 49
	D	D	D	D	D	D
TEXTURE:						
Silt	30	5	5	15	10	10
Clay	70	95	95	85	90	90
COMPOSITION:						
Access. minerals	—	3	—	—	3	1
Bioclasts	20	—	—	48	5	—
Calcite	—	—	5	—	—	8
Clay	10	85	75	17	82	—
Foraminifers	—	—	—	—	Tr	Tr
Glauconite	—	—	—	—	—	Tr
Mica	—	—	—	2	Tr	—
Nannofossils	65	10	20	28	10	90
Pteropod	Tr	—	—	—	—	—
Radiolarians	Tr	Tr	—	Tr	—	Tr
Silicoflagellates	Tr	Tr	—	—	—	—
Sponge spicules	5	2	Tr	5	—	1

	6, 76
	D
TEXTURE:	
Silt	Tr
Clay	100
COMPOSITION:	
Clay	100
Micrite	Tr
Nannofossils	Tr



SITE 717 HOLE C CORE 28X CORED INTERVAL 4961.2-4970.7 mbsl; 226.5-236.0 mbsf



CLAY

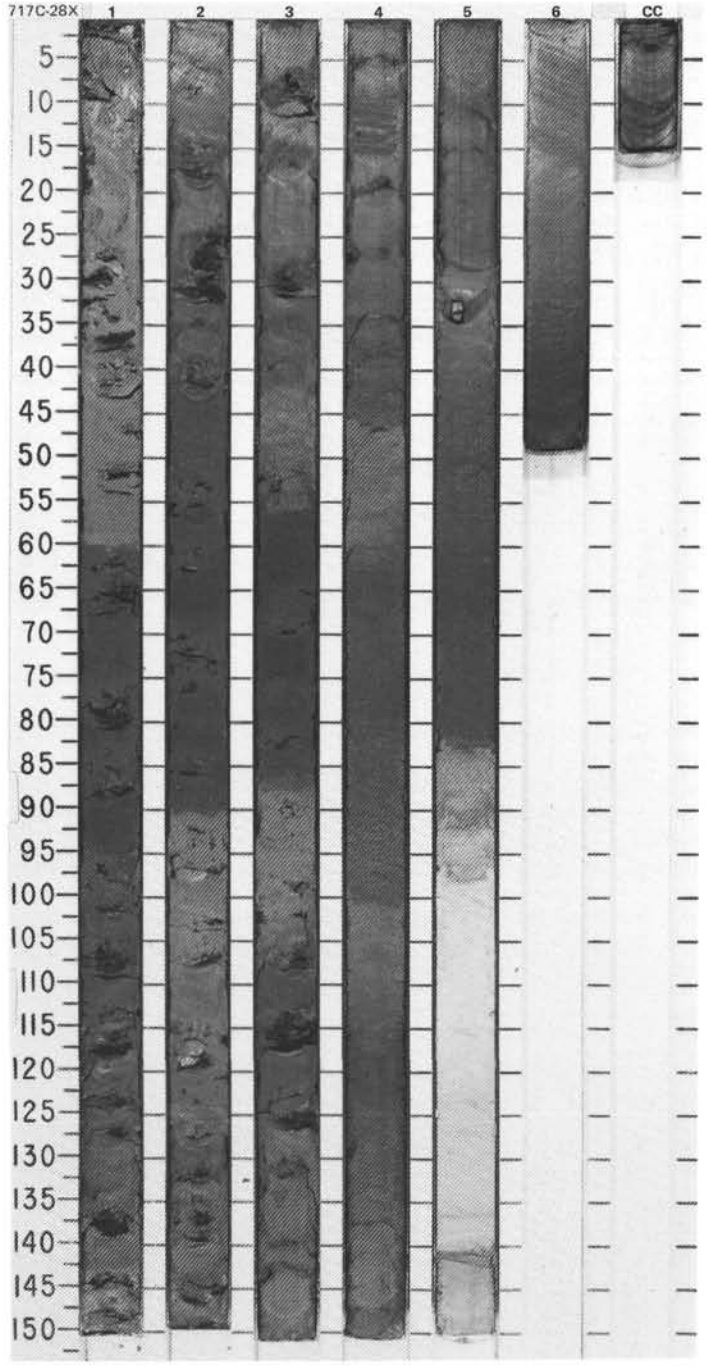
Drilling disturbance slight to moderate in Sections 1-4 and CC.

Major lithology: Clay, varying in color from olive gray (10Y 5/1) to gray (5Y 5/1) and dusky yellow green (5GY 5/2) to grayish green (10GY 5/2) where bioturbated.

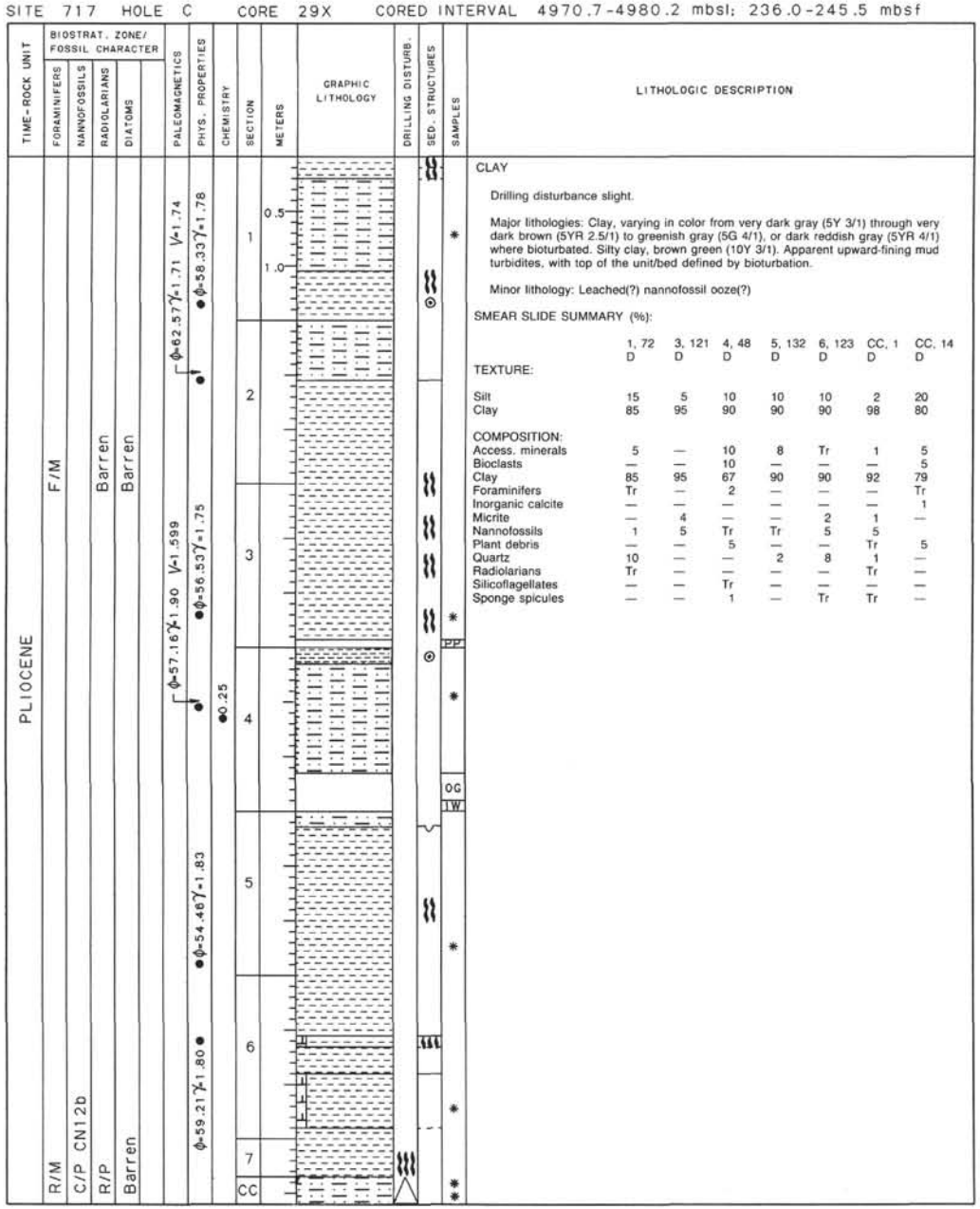
Minor lithology: Nannofossil ooze, gray (5Y 6/1), and silty clay, olive gray (10Y 5/1). Numerous chemical fronts (Mn oxides?) in Section 2, 96-110 cm, Section 3, 42 and 84-93 cm, Section 4, 100 cm, and Section 5, 82-100 and 135-140 cm.

SMEAR SLIDE SUMMARY (%):

	1, 43 D	1, 111 D	2, 120 D	5, 89 M	5, 112 M	6, 21 D
TEXTURE:						
Silt	1	5	30	5	10	10
Clay	99	95	70	95	90	90
COMPOSITION:						
Access. minerals	—	10	10	—	—	5
Calcite	—	—	—	5	5	—
Clay	99	83	73	35	—	90
Diatoms	—	Tr	—	—	—	—
Foraminifers	—	—	—	—	1	—
Micrite	1	—	—	—	—	Tr
Nannofossils	Tr	2	—	60	94	Tr
Plant debris	—	5	7	—	—	—
Quartz	—	—	10	—	—	—
Radiolarians	—	—	—	—	Tr	—
Sponge spicules	Tr	—	—	—	Tr	—



SITE 717 HOLE C CORE 29X CORED INTERVAL 4970.7-4980.2 mbsl; 236.0-245.5 mbsf



LITHOLOGIC DESCRIPTION

CLAY

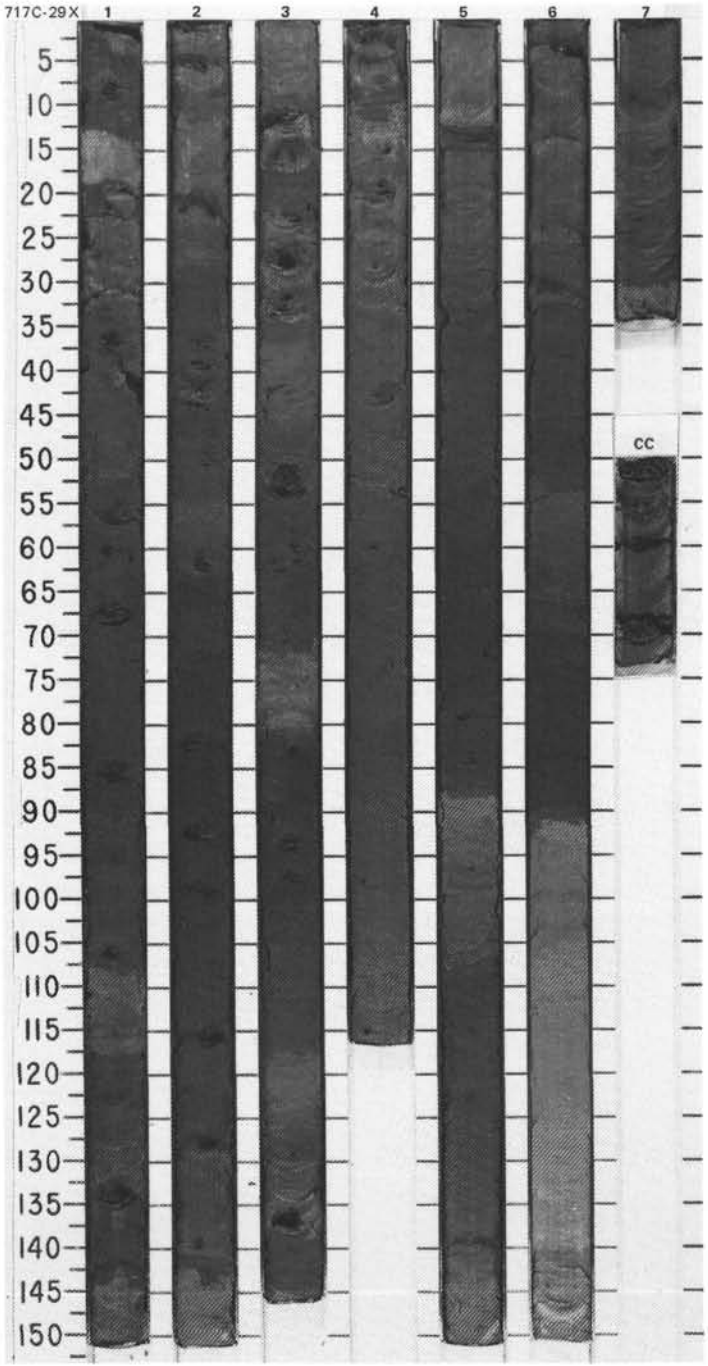
Drilling disturbance slight.

Major lithologies: Clay, varying in color from very dark gray (5Y 3/1) through very dark brown (5YR 2.5/1) to greenish gray (5G 4/1), or dark reddish gray (5YR 4/1) where bioturbated. Silty clay, brown green (10Y 3/1). Apparent upward-fining mud turbidites, with top of the unit/bed defined by bioturbation.

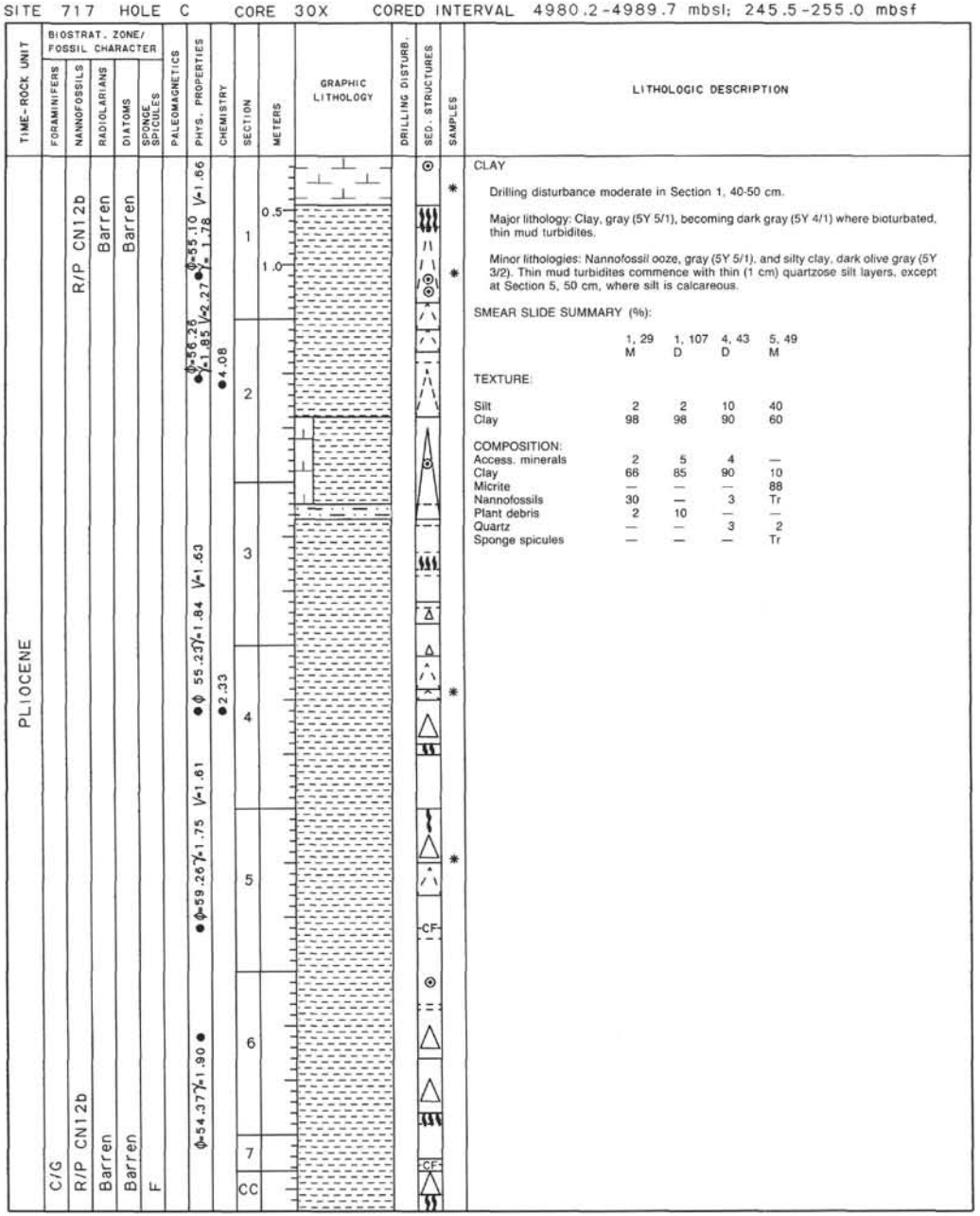
Minor lithology: Leached(?) nannofossil ooze(?)

SMEAR SLIDE SUMMARY (%):

	1, 72 D	3, 121 D	4, 48 D	5, 132 D	6, 123 D	CC, 1 D	CC, 14 D
TEXTURE:							
Silt	15	5	10	10	10	2	20
Clay	85	95	90	90	90	98	80
COMPOSITION:							
Access. minerals	5	—	10	8	Tr	1	5
Bioclasts	—	—	10	—	—	—	5
Clay	85	95	67	90	90	92	79
Foraminifers	Tr	—	2	—	—	—	Tr
Inorganic calcite	—	—	—	—	—	—	1
Micrite	—	4	—	—	2	1	—
Nannofossils	1	5	Tr	Tr	5	5	
Plant debris	—	—	5	—	—	Tr	5
Quartz	10	—	—	2	8	1	—
Radiolarians	Tr	—	—	—	—	Tr	—
Silicoflagellates	—	—	Tr	—	—	—	—
Sponge spicules	—	—	1	—	Tr	Tr	—



SITE 717 HOLE C CORE 30X CORED INTERVAL 4980.2-4989.7 mbsl; 245.5-255.0 mbsf



LITHOLOGIC DESCRIPTION

CLAY

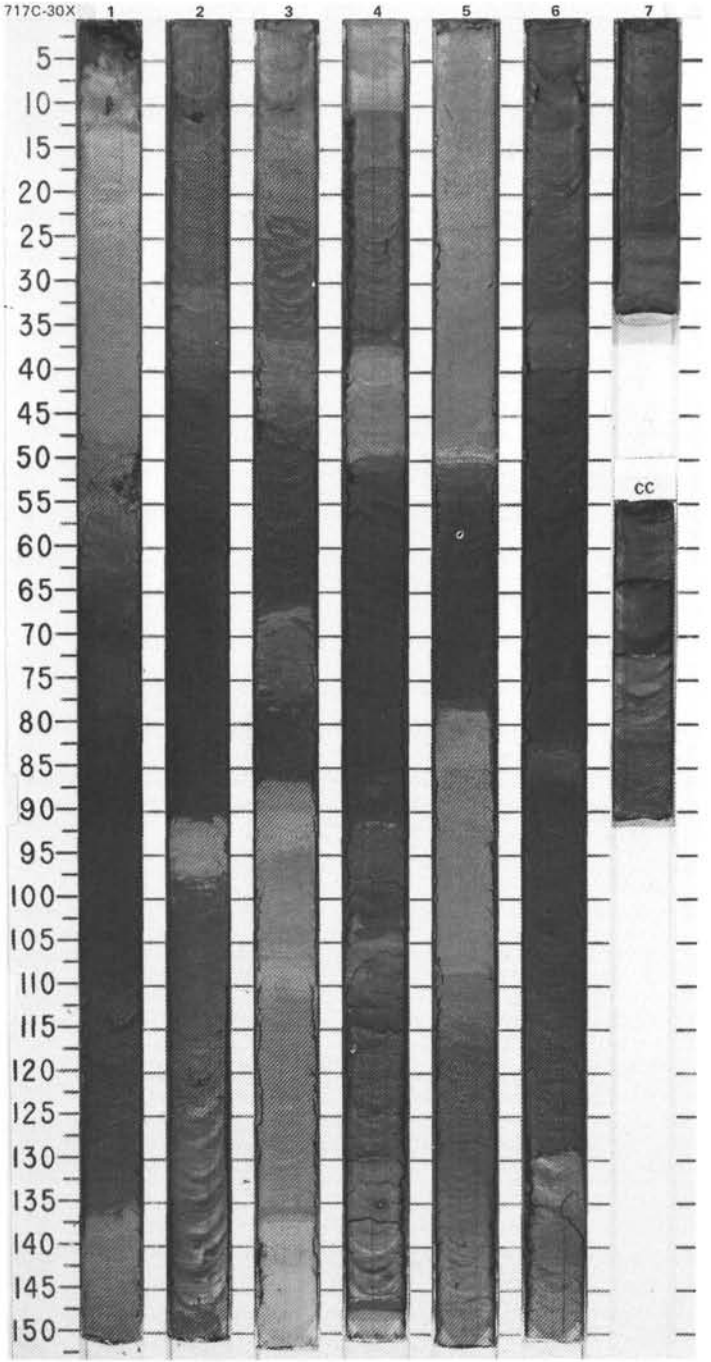
Drilling disturbance moderate in Section 1, 40-50 cm.

Major lithology: Clay, gray (5Y 5/1), becoming dark gray (5Y 4/1) where bioturbated, thin mud turbidites.

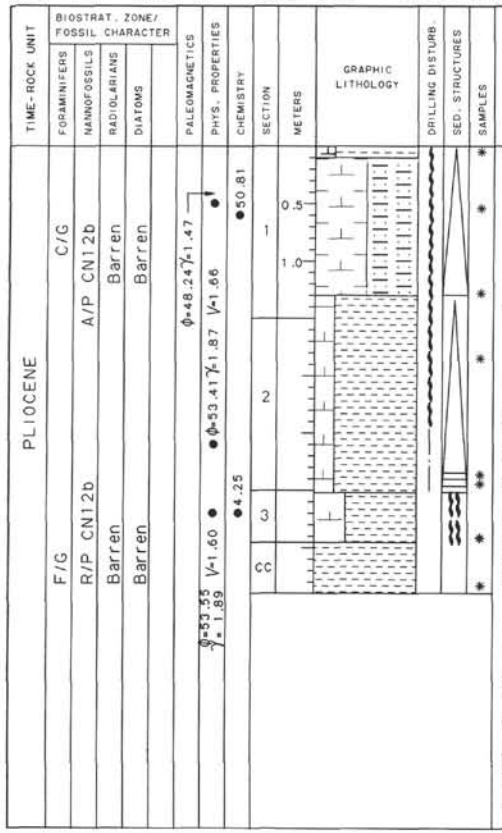
Minor lithologies: Nannofossil ooze, gray (5Y 5/1), and silty clay, dark olive gray (5Y 3/2). Thin mud turbidites commence with thin (1 cm) quartzose silt layers, except at Section 5, 50 cm, where silt is calcareous.

SMEAR SLIDE SUMMARY (%):

	1, 29 M	1, 107 D	4, 43 D	5, 49 M
TEXTURE:				
Silt	2	2	10	40
Clay	98	98	90	60
COMPOSITION:				
Access. minerals	2	5	4	—
Clay	66	85	90	10
Micrite	—	—	—	88
Nannofossils	30	—	3	Tr
Plant debris	2	10	—	—
Quartz	—	—	3	2
Sponge spicules	—	—	—	Tr



SITE 717 HOLE C CORE 31X CORED INTERVAL 4989.7-4999.2 mbsl; 255.0-264.5 mbsf



LITHOLOGIC DESCRIPTION

CLAY

Drilling disturbance severe in Sections 1 and 2.

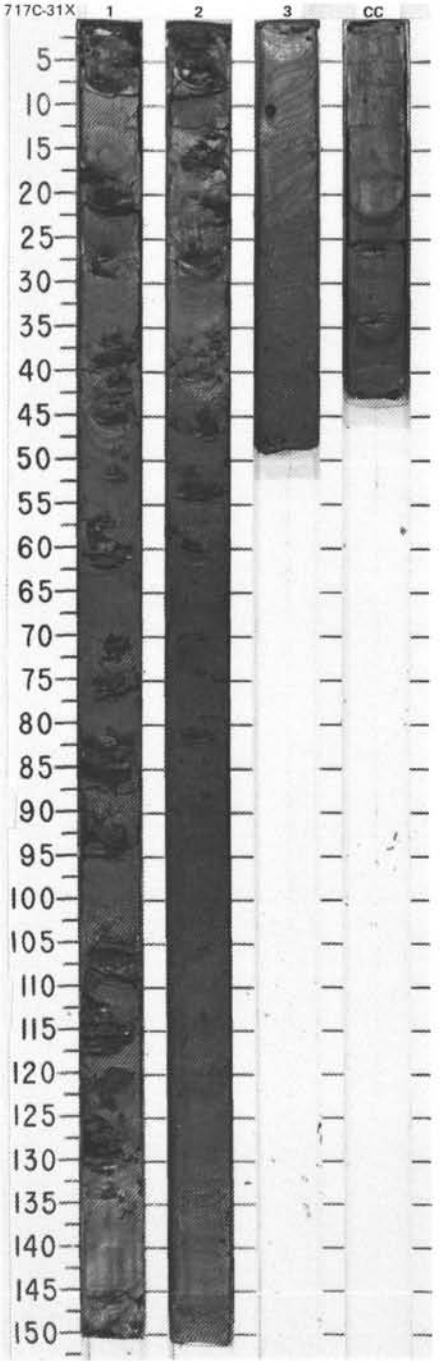
Major lithologies: Calcareous clay, dark gray (2.5Y 4/0) to very dark gray (5Y 3/1). At the base of this lithology, in Section 2 at 146 cm, a thin (5 cm) silty clay occurs which grades up to the overlying lithology. Pelagic turbidite(?). Calcareous silty clay, olive gray (5Y 5/2), fines upward. Pelagic turbidite(?)

Minor lithology: Clay, black (5Y 2.5/1).

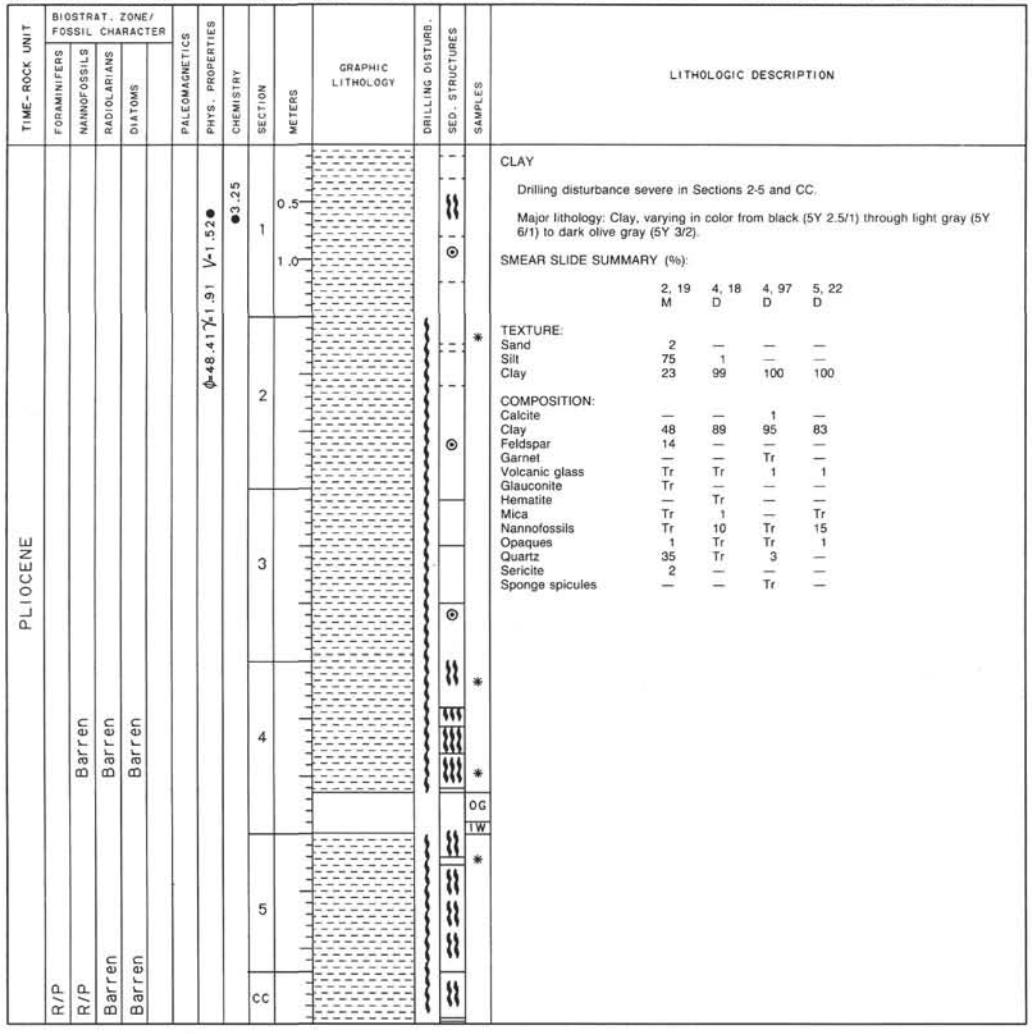
SMEAR SLIDE SUMMARY (%):

	1, 4 D	1, 54 D	1, 138 D	2, 35 D	2, 138 D	2, 146 D
TEXTURE:						
Silt	7	20	—	5	3	80
Clay	93	80	100	90	97	20
COMPOSITION:						
Access. minerals	4	—	—	2	Tr	30
Clay	73	33	100	70	67	20
Diatoms	—	Tr	—	—	—	—
Foraminifers	—	Tr	—	—	Tr	—
Inorganic calcite	2	11	—	3	—	20
Mica	1	—	Tr	—	3	—
Nannofossils	20	56	—	20	30	—
Quartz	—	—	Tr	—	—	30

	3, 45 D	CC, 39 D
TEXTURE:		
Silt	25	10
Clay	75	90
COMPOSITION:		
Access. minerals	5	
Clay	80	
Foraminifers	3	
Nannofossils	7	
Quartz	5	



SITE 717 HOLE C CORE 32X CORED INTERVAL 4999.2-5008.7 mbsl; 264.5-274.0 mbsf



LITHOLOGIC DESCRIPTION

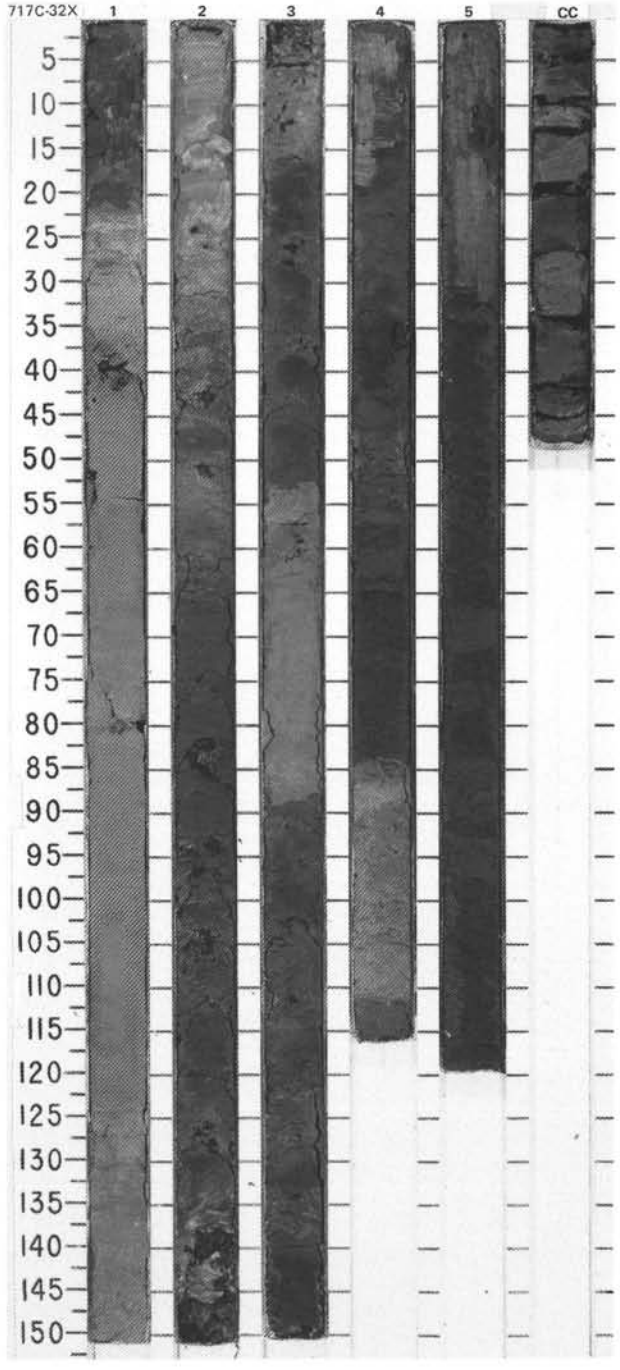
CLAY

Drilling disturbance severe in Sections 2-5 and CC.

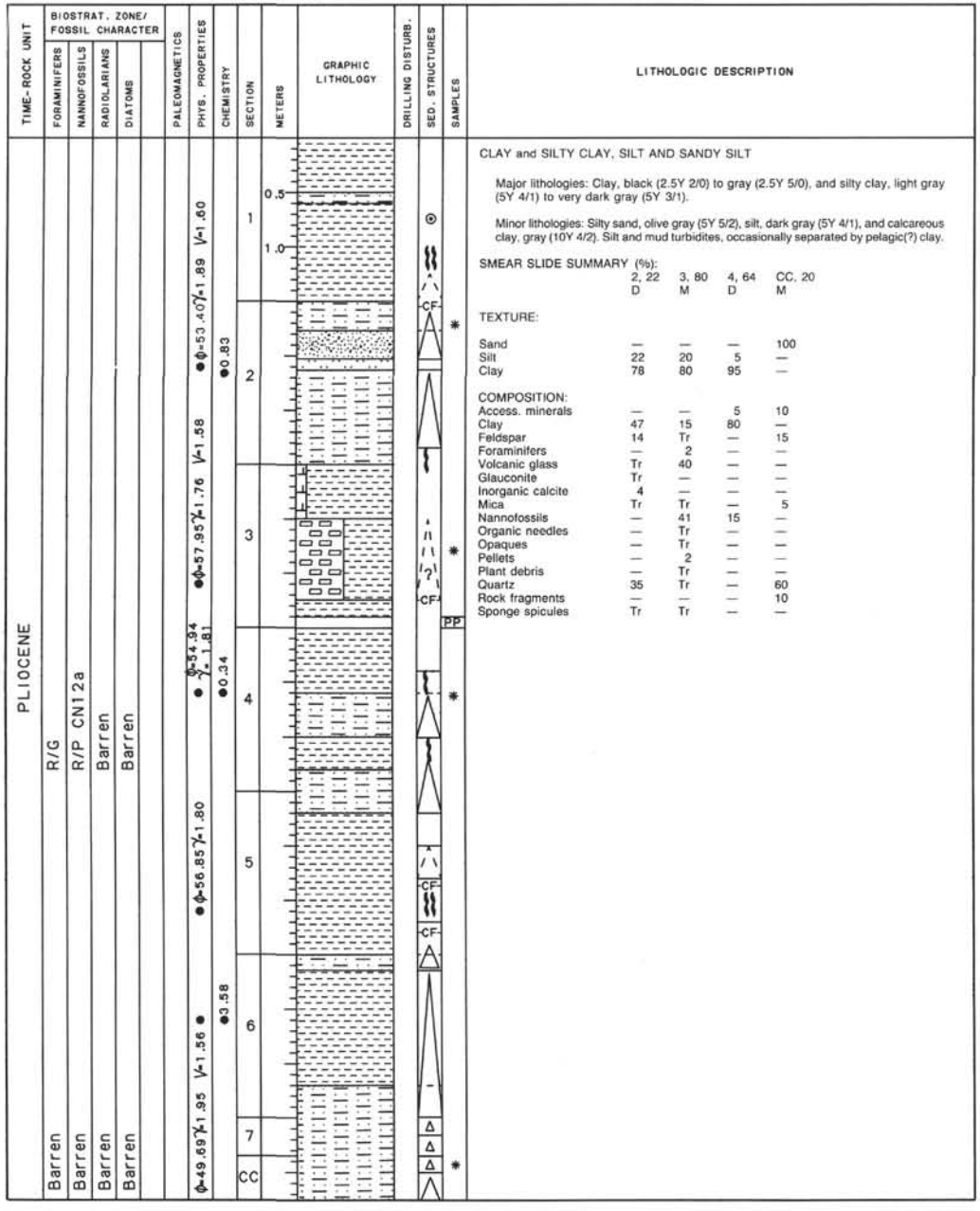
Major lithology: Clay, varying in color from black (5Y 2.5/1) through light gray (5Y 6/1) to dark olive gray (5Y 3/2).

SMEAR SLIDE SUMMARY (%):

	2, 19 M	4, 18 D	4, 97 D	5, 22 D
TEXTURE:				
Sand	2	—	—	—
Silt	75	1	—	—
Clay	23	99	100	100
COMPOSITION:				
Calcite	—	—	1	—
Clay	48	89	95	83
Feldspar	14	—	—	—
Garnet	—	—	Tr	—
Volcanic glass	Tr	Tr	1	1
Glauconite	Tr	—	—	—
Hematite	—	Tr	—	—
Mica	Tr	1	—	Tr
Nannofossils	Tr	10	Tr	15
Opaques	1	Tr	Tr	1
Quartz	35	Tr	3	—
Sericite	2	—	—	—
Sponge spicules	—	—	Tr	—



SITE 717 HOLE C CORE 33X CORED INTERVAL 5008.7-5018.2 mbsl: 274.0-283.5 mbsf



LITHOLOGIC DESCRIPTION

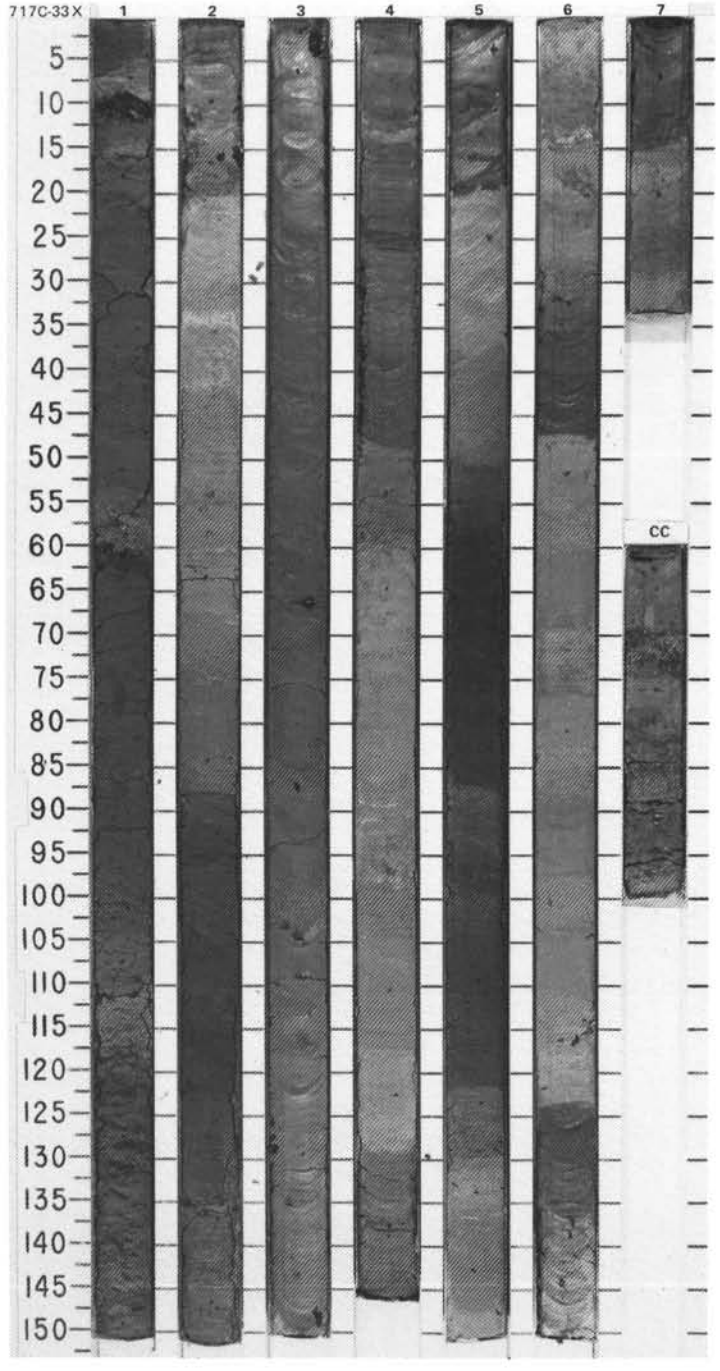
CLAY and SILTY CLAY, SILT AND SANDY SILT

Major lithologies: Clay, black (2.5Y 2/0) to gray (2.5Y 5/0), and silty clay, light gray (5Y 4/1) to very dark gray (5Y 3/1).

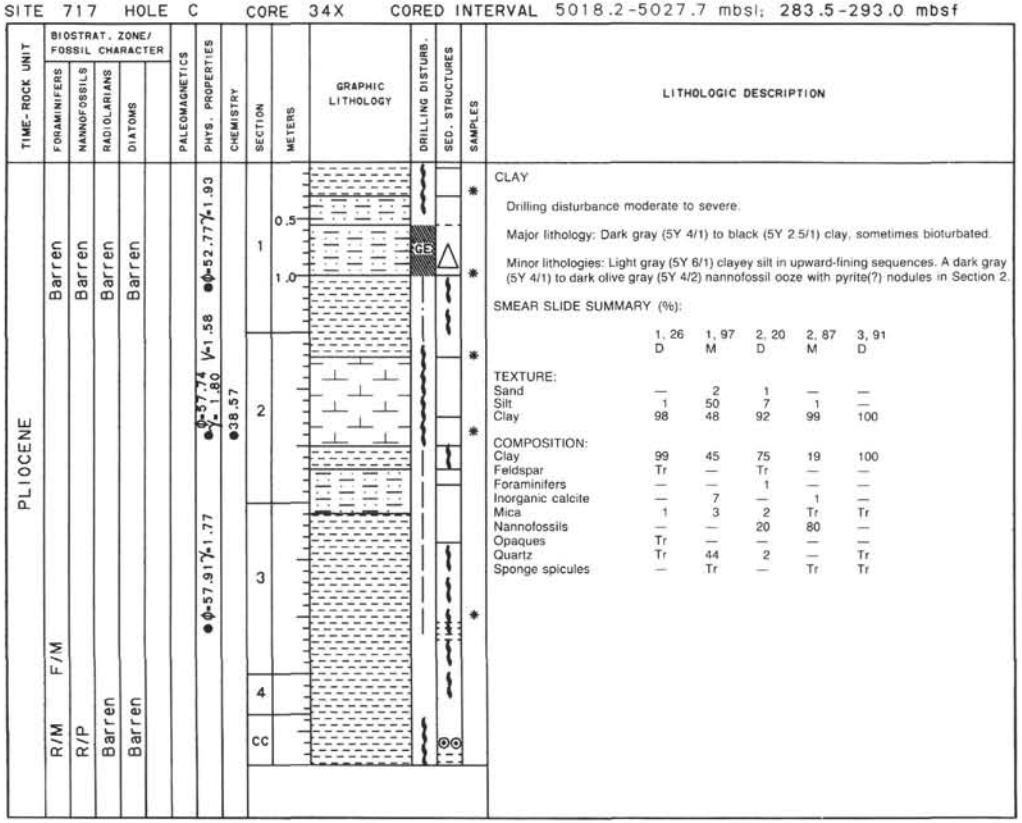
Minor lithologies: Silty sand, olive gray (5Y 5/2), silt, dark gray (5Y 4/1), and calcareous clay, gray (10Y 4/2). Silt and mud turbidites, occasionally separated by pelagic(?) clay.

SMEAR SLIDE SUMMARY (%):

	2, 22 D	3, 80 M	4, 64 D	CC, 20 M
TEXTURE:				
Sand	—	—	—	100
Silt	22	20	5	—
Clay	78	80	95	—
COMPOSITION:				
Access. minerals	—	—	5	10
Clay	47	15	80	—
Feldspar	14	Tr	—	15
Foraminifers	—	2	—	—
Volcanic glass	Tr	40	—	—
Glauconite	Tr	—	—	—
Inorganic calcite	4	—	—	—
Mica	Tr	Tr	—	5
Nannofossils	—	41	15	—
Organic needles	—	Tr	—	—
Opaques	—	Tr	—	—
Pellets	—	2	—	—
Plant debris	—	Tr	—	—
Quartz	35	Tr	—	60
Rock fragments	—	—	—	10
Sponge spicules	Tr	Tr	—	—



SITE 717 HOLE C CORE 34X CORED INTERVAL 5018.2-5027.7 mbsl; 283.5-293.0 mbsf



LITHOLOGIC DESCRIPTION

CLAY

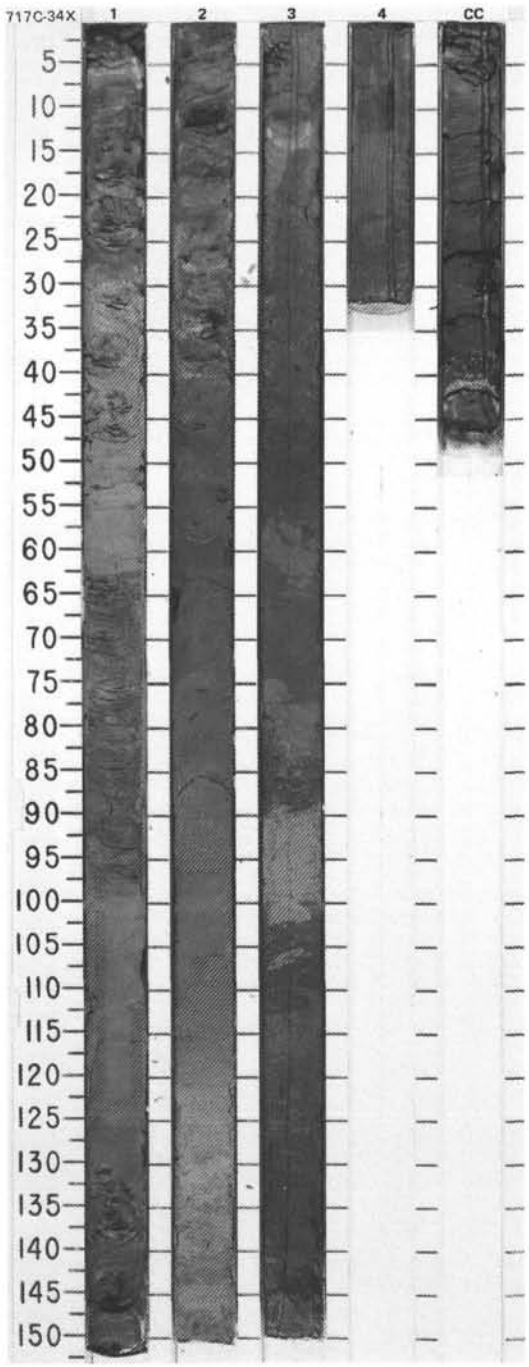
Drilling disturbance moderate to severe.

Major lithology: Dark gray (5Y 4/1) to black (5Y 2.5/1) clay, sometimes bioturbated.

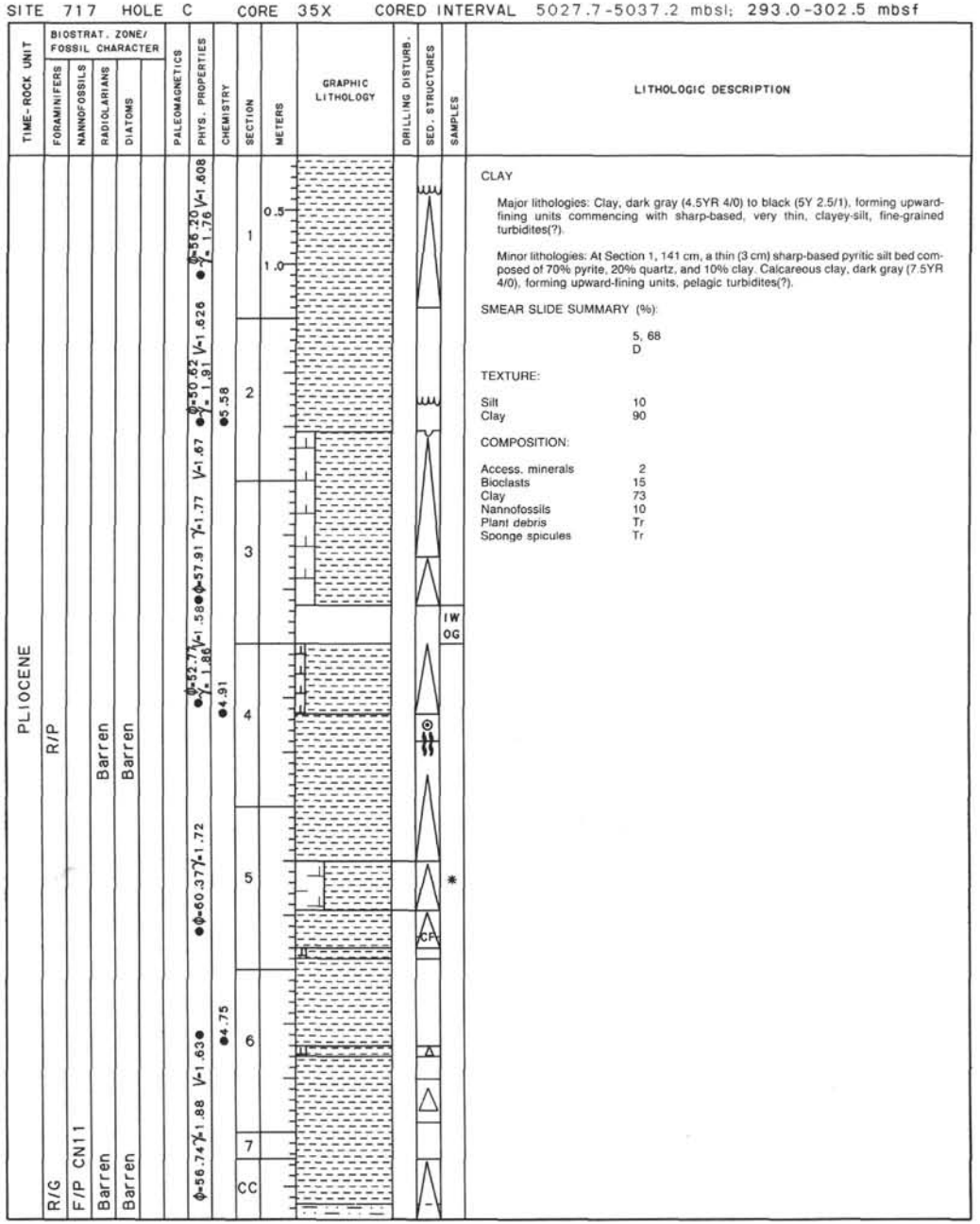
Minor lithologies: Light gray (5Y 6/1) clayey silt in upward-fining sequences. A dark gray (5Y 4/1) to dark olive gray (5Y 4/2) nannofossil ooze with pyrite(?) nodules in Section 2.

SMEAR SLIDE SUMMARY (%):

	1, 26 D	1, 97 M	2, 20 D	2, 87 M	3, 91 D
TEXTURE:					
Sand	—	2	1	—	—
Silt	1	50	7	1	—
Clay	98	48	92	99	100
COMPOSITION:					
Clay	99	45	75	19	100
Feldspar	Tr	—	Tr	—	—
Foraminifers	—	—	1	—	—
Inorganic calcite	—	7	—	1	—
Mica	1	3	2	Tr	Tr
Nannofossils	—	—	20	80	—
Opaques	Tr	—	—	—	—
Quartz	Tr	44	2	—	Tr
Sponge spicules	—	Tr	—	Tr	Tr



SITE 717 HOLE C CORE 35X CORED INTERVAL 5027.7-5037.2 mbsl; 293.0-302.5 mbsf



LITHOLOGIC DESCRIPTION

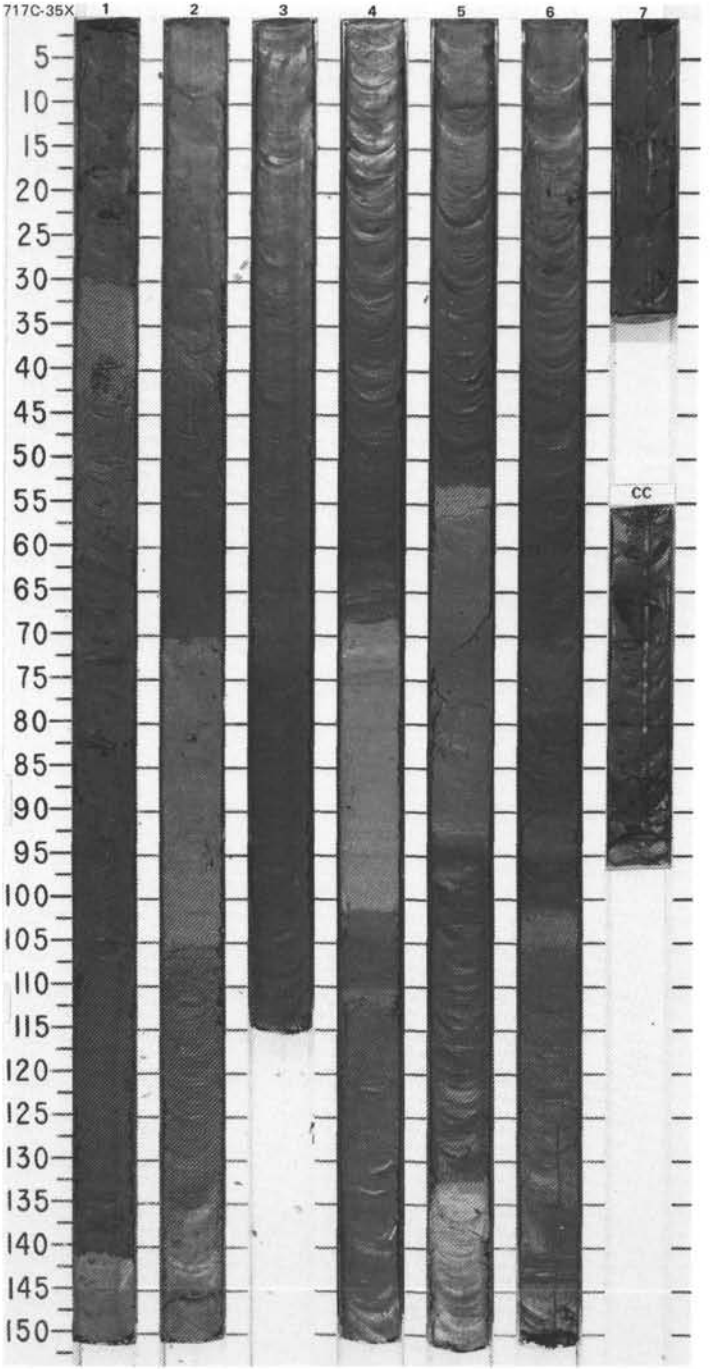
CLAY

Major lithologies: Clay, dark gray (4.5YR 4/0) to black (5Y 2.5/1), forming upward-fining units commencing with sharp-based, very thin, clayey-silt, fine-grained turbidites(?).

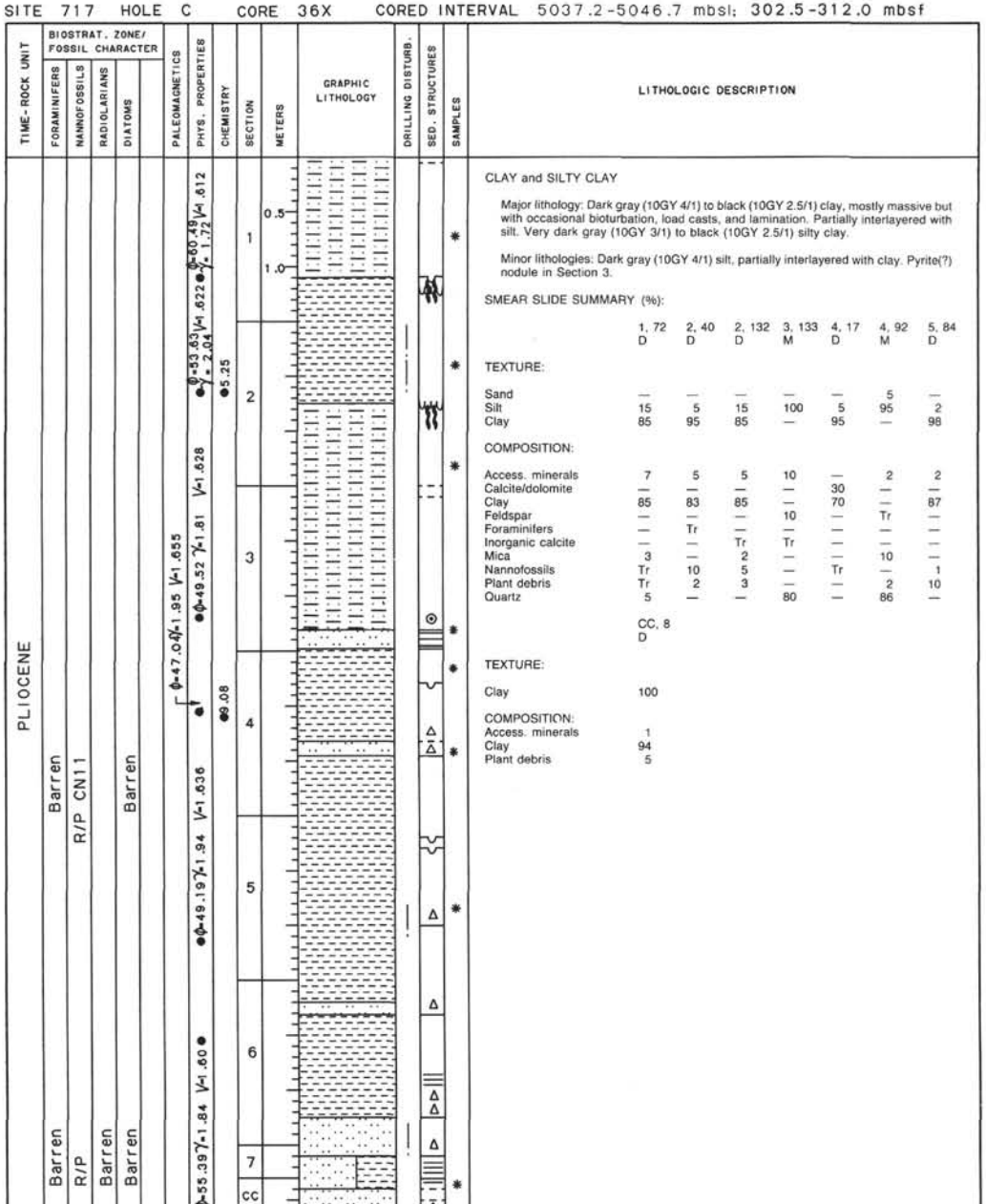
Minor lithologies: At Section 1, 141 cm, a thin (3 cm) sharp-based pyritic silt bed composed of 70% pyrite, 20% quartz, and 10% clay. Calcareous clay, dark gray (7.5YR 4/0), forming upward-fining units, pelagic turbidites(?).

SMEAR SLIDE SUMMARY (%):

	5, 68
	D
TEXTURE:	
Silt	10
Clay	90
COMPOSITION:	
Access. minerals	2
Bioclasts	15
Clay	73
Nannofossils	10
Plant debris	Tr
Sponge spicules	Tr



SITE 717 HOLE C CORE 36X CORED INTERVAL 5037.2-5046.7 mbsl; 302.5-312.0 mbsf



LITHOLOGIC DESCRIPTION

CLAY and SILTY CLAY

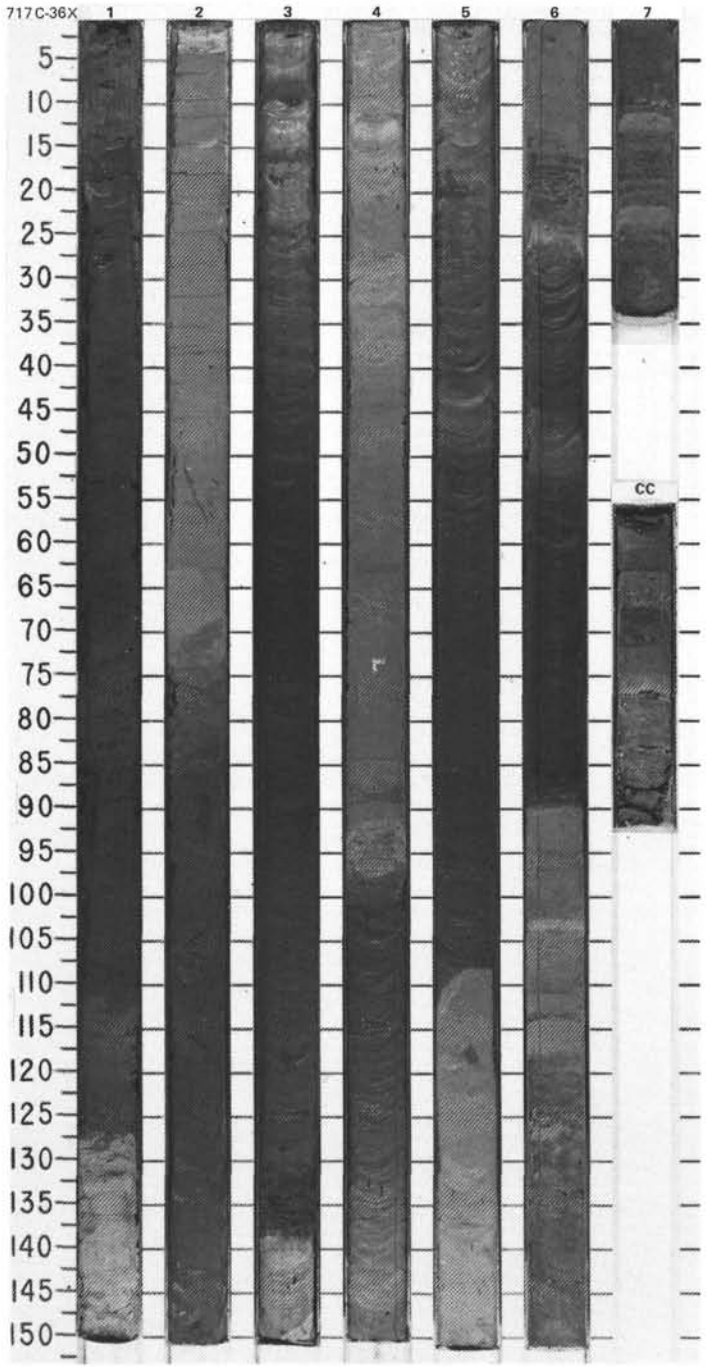
Major lithology: Dark gray (10GY 4/1) to black (10GY 2.5/1) clay, mostly massive but with occasional bioturbation, load casts, and lamination. Partially interlayered with silt. Very dark gray (10GY 3/1) to black (10GY 2.5/1) silty clay.

Minor lithologies: Dark gray (10GY 4/1) silt, partially interlayered with clay. Pyrite(?) nodule in Section 3.

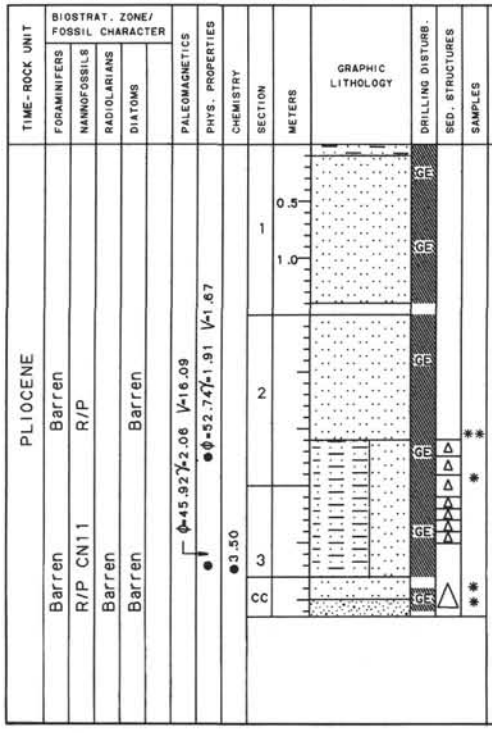
SMEAR SLIDE SUMMARY (%):

	1, 72 D	2, 40 D	2, 132 D	3, 133 M	4, 17 D	4, 92 M	5, 84 D
TEXTURE:							
Sand	—	—	—	—	—	5	—
Silt	15	5	15	100	5	95	2
Clay	85	95	85	—	95	—	98
COMPOSITION:							
Access. minerals	7	5	5	10	—	2	2
Calcite/dolomite	—	—	—	—	30	—	—
Clay	85	83	85	—	70	—	87
Feldspar	—	—	—	10	—	Tr	—
Foraminifers	—	Tr	—	—	—	—	—
Inorganic calcite	—	—	Tr	Tr	—	—	—
Mica	3	—	2	—	—	10	—
Nannofossils	Tr	10	5	—	Tr	—	1
Plant debris	Tr	2	3	—	—	2	10
Quartz	5	—	—	80	—	86	—

	CC, 8 D
TEXTURE:	
Clay	100
COMPOSITION:	
Access. minerals	1
Clay	94
Plant debris	5



SITE 717 HOLE C CORE 37X CORED INTERVAL 5046.7-5056.2 mbsl; 312.0-321.5 mbsf



LITHOLOGIC DESCRIPTION

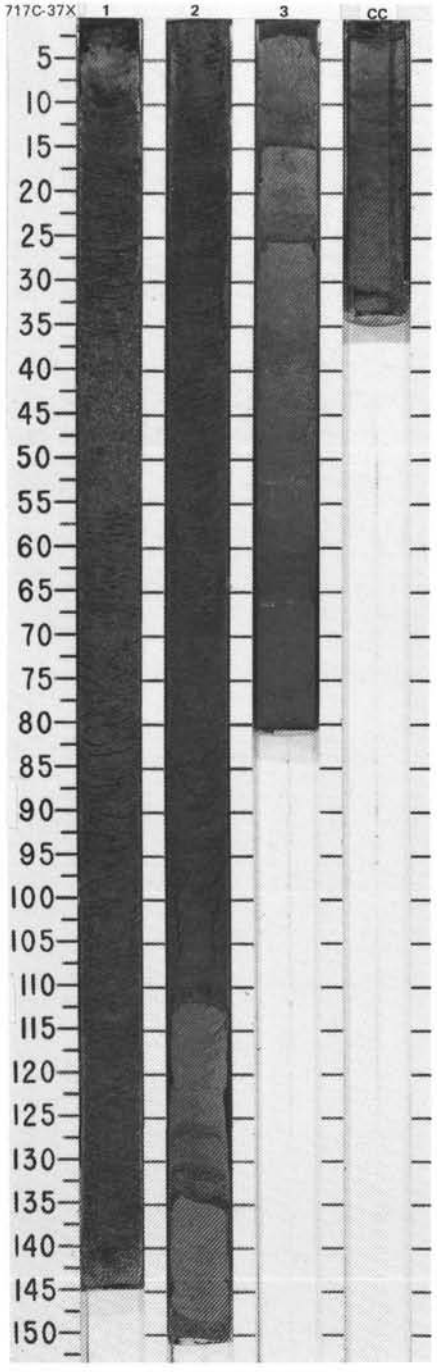
SILT and SILTY CLAY

Major lithologies: Dark gray (10GY 4/1) silt, interbedded with silty clay in upward-fining sequences in lower part of core.

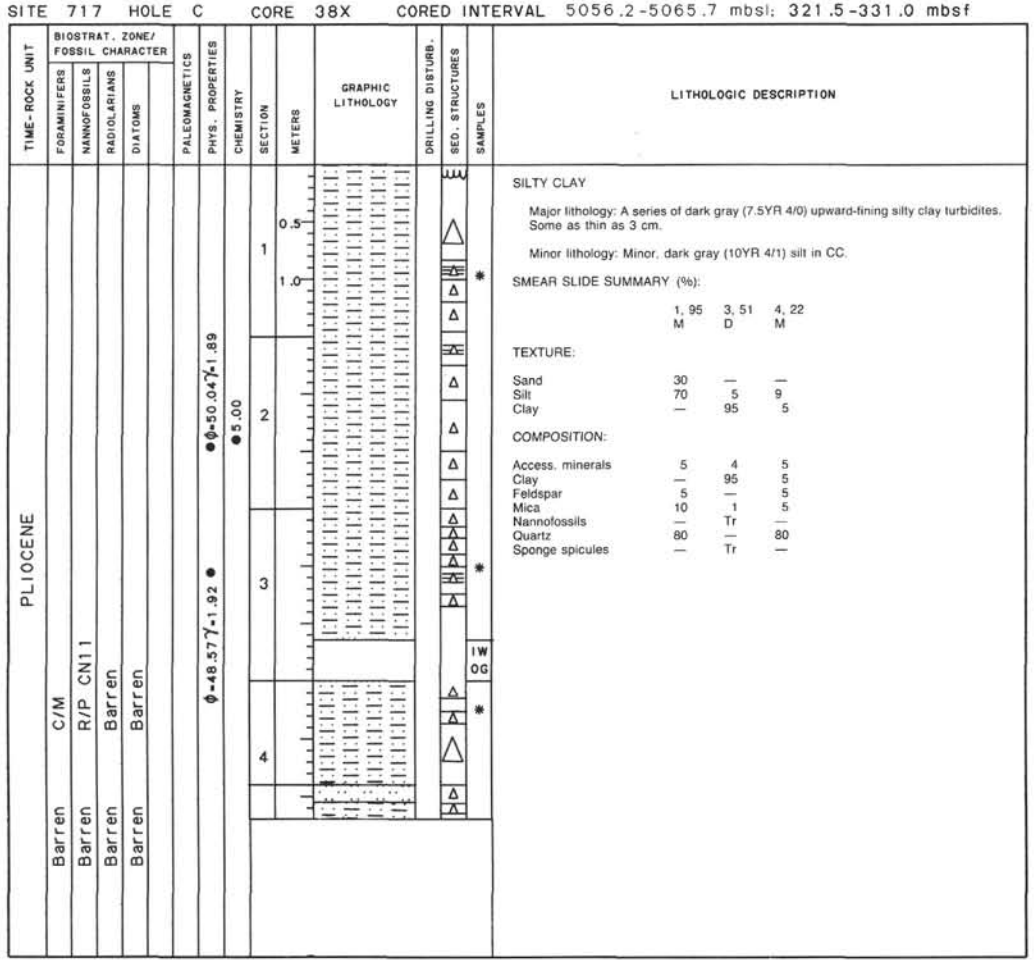
Minor lithologies: Dark gray (10GY 4/1) micaceous sandy silt in CC.

SMEAR SLIDE SUMMARY (%):

	2, 106 M	2, 106 D	2, 142 D	CC, 10 M	CC, 23 M
TEXTURE:					
Sand	50	—	—	15	15
Silt	50	15	4	85	85
Clay	—	85	96	—	—
COMPOSITION:					
Access. minerals	10	5	2	10	5
Clay	—	85	93	—	—
Feldspar	5	—	—	5	5
Inorganic calcite	—10	—	—	—	
Mica	5	—	2	5	10
Nannofossils	—	Tr	—	—	—
Opaques	—	—	3	—	—
Quartz	80	—	—	80	80
Sponge spicules	—	Tr	—	—	Tr



SITE 717 HOLE C CORE 38X CORED INTERVAL 5056.2-5065.7 mbsl; 321.5-331.0 mbsf



LITHOLOGIC DESCRIPTION

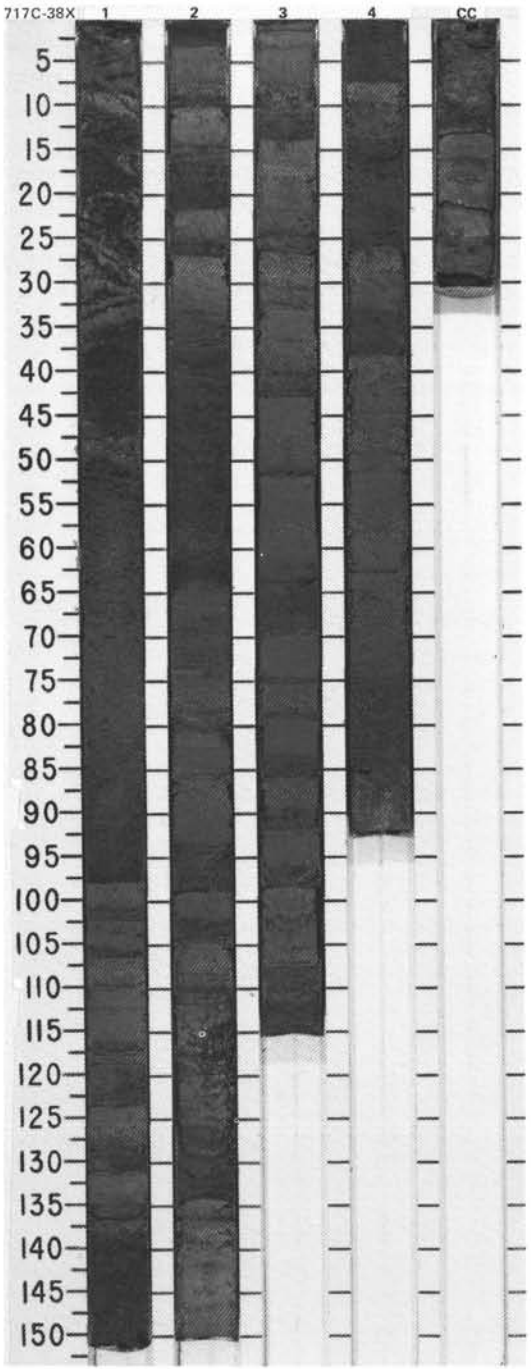
SILTY CLAY

Major lithology: A series of dark gray (7.5YR 4/0) upward-fining silty clay turbidites. Some as thin as 3 cm.

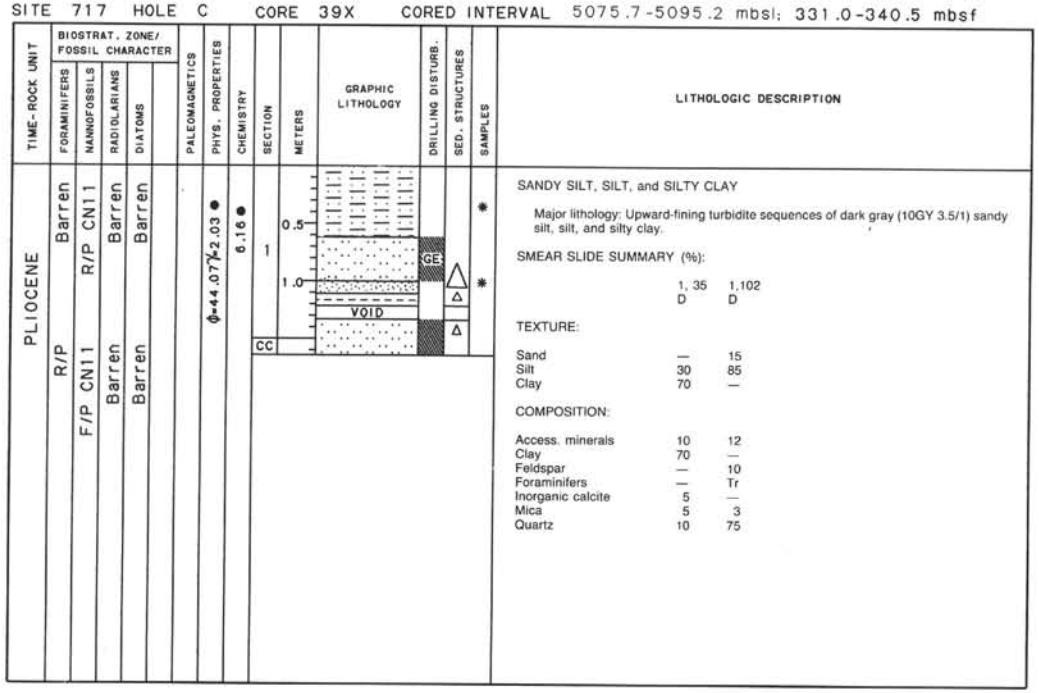
Minor lithology: Minor, dark gray (10YR 4/1) silt in CC.

SMEAR SLIDE SUMMARY (%):

	1, 95 M	3, 51 D	4, 22 M
TEXTURE:			
Sand	30	—	—
Silt	70	5	9
Clay	—	95	5
COMPOSITION:			
Access. minerals	5	4	5
Clay	—	95	5
Feldspar	5	—	5
Mica	10	1	5
Nannofossils	—	Tr	—
Quartz	80	—	80
Sponge spicules	—	Tr	—



SITE 717 HOLE C CORE 39X CORED INTERVAL 5075.7-5095.2 mbsl; 331.0-340.5 mbsf



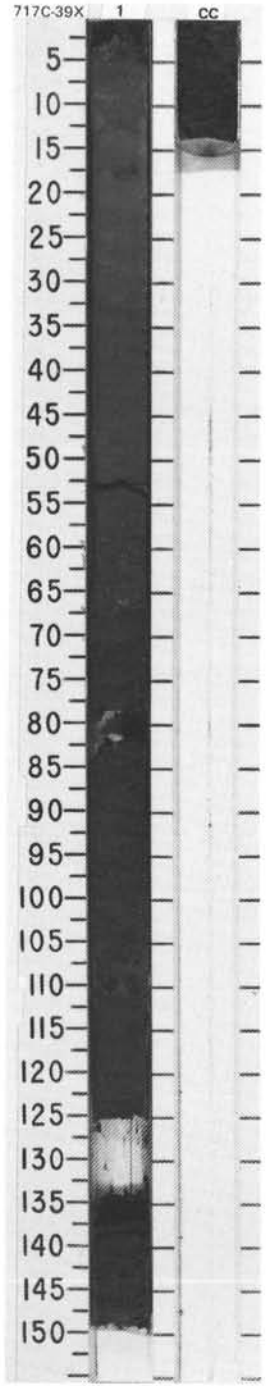
LITHOLOGIC DESCRIPTION

SANDY SILT, SILT, and SILTY CLAY

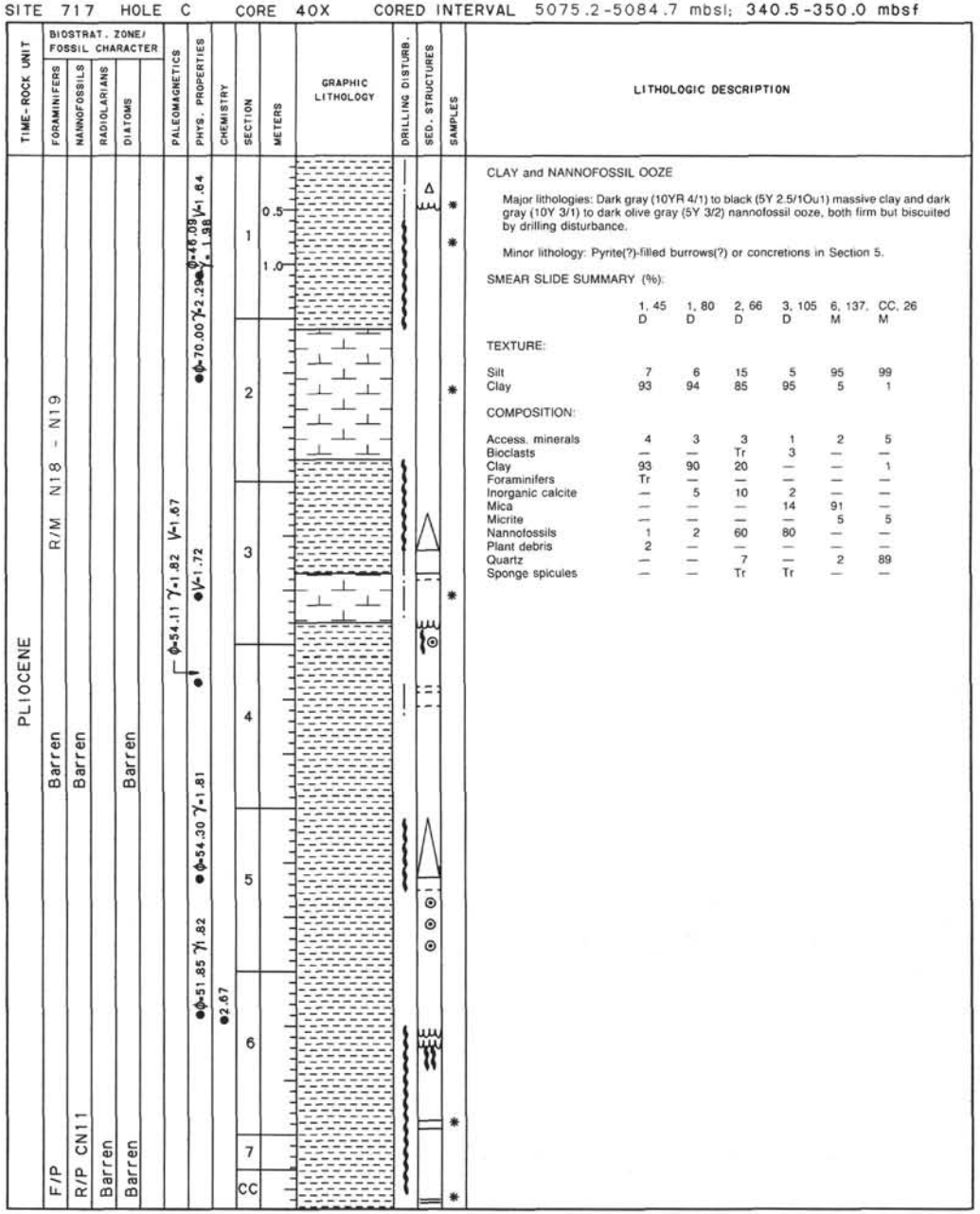
Major lithology: Upward-fining turbidite sequences of dark gray (10GY 3.5/1) sandy silt, silt, and silty clay.

SMEAR SLIDE SUMMARY (%):

	1, 35 D	1,102 D
TEXTURE:		
Sand	—	15
Silt	30	85
Clay	70	—
COMPOSITION:		
Access. minerals	10	12
Clay	70	—
Feldspar	—	10
Foraminifers	—	Tr
Inorganic calcite	5	—
Mica	5	3
Quartz	10	75



SITE 717 HOLE C CORE 40X CORED INTERVAL 5075.2-5084.7 mbsl; 340.5-350.0 mbsf



LITHOLOGIC DESCRIPTION

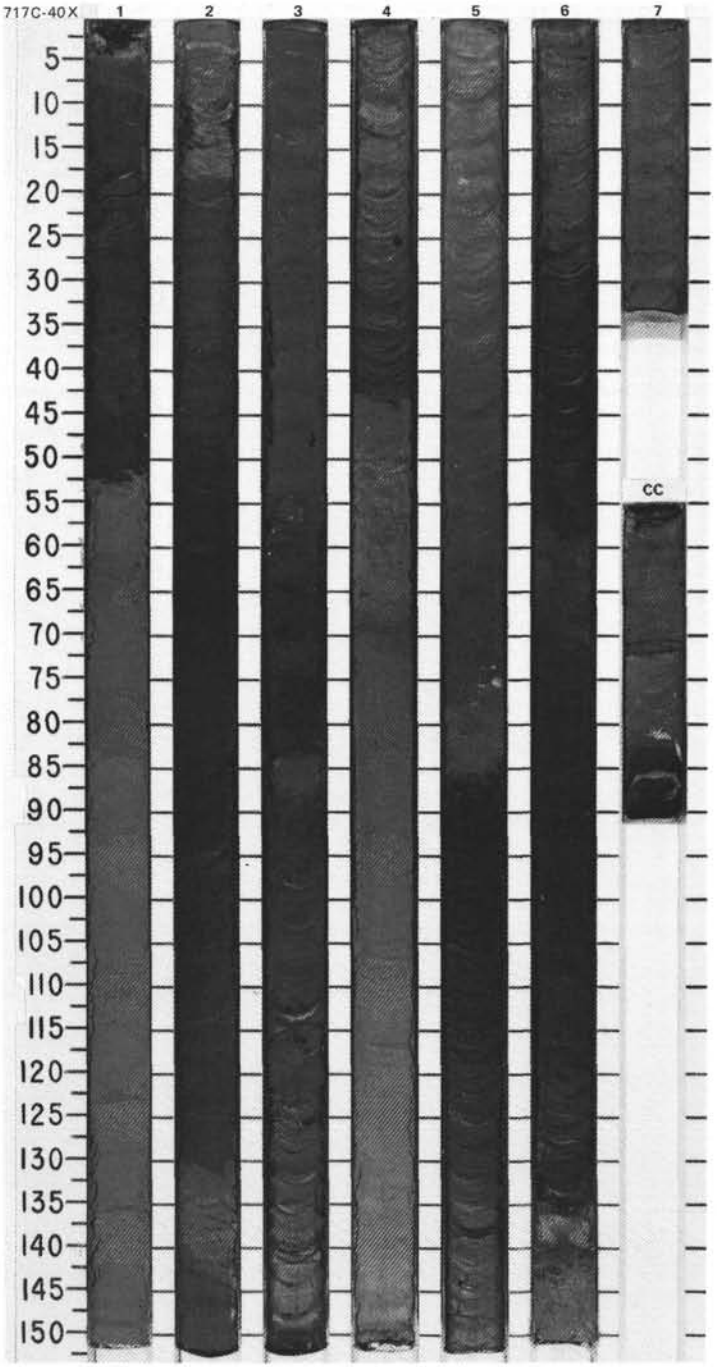
CLAY and NANNOFOSSIL OOZE

Major lithologies: Dark gray (10YR 4/1) to black (5Y 2.5/1Ou1) massive clay and dark gray (10Y 3/1) to dark olive gray (5Y 3/2) nannofossil ooze, both firm but biscuited by drilling disturbance.

Minor lithology: Pyrite(?)-filled burrows(?) or concretions in Section 5.

SMEAR SLIDE SUMMARY (%):

	1, 45 D	1, 80 D	2, 66 D	3, 105 D	6, 137, M	CC, 26 M
TEXTURE:						
Silt	7	6	15	5	95	99
Clay	93	94	85	95	5	1
COMPOSITION:						
Access. minerals	4	3	3	1	2	5
Bioclasts	—	—	Tr	3	—	—
Clay	93	90	20	—	—	1
Foraminifers	Tr	—	—	—	—	—
Inorganic calcite	—	5	10	2	—	—
Mica	—	—	—	14	91	—
Micrite	—	—	—	—	5	5
Nannofossils	1	2	60	80	—	—
Plant debris	2	—	—	—	—	—
Quartz	—	—	7	—	2	89
Sponge spicules	—	—	Tr	Tr	—	—



SITE 717 HOLE C CORE 41X CORED INTERVAL 5084.7-5094.2 mbsl; 350.0-359.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
PLIOCENE	C/P R/M	C/P CN11	Barren	Barren Barren		φ-55.63 γ-1.79 ●		1, CC	0.5			Δ	* *

LITHOLOGIC DESCRIPTION

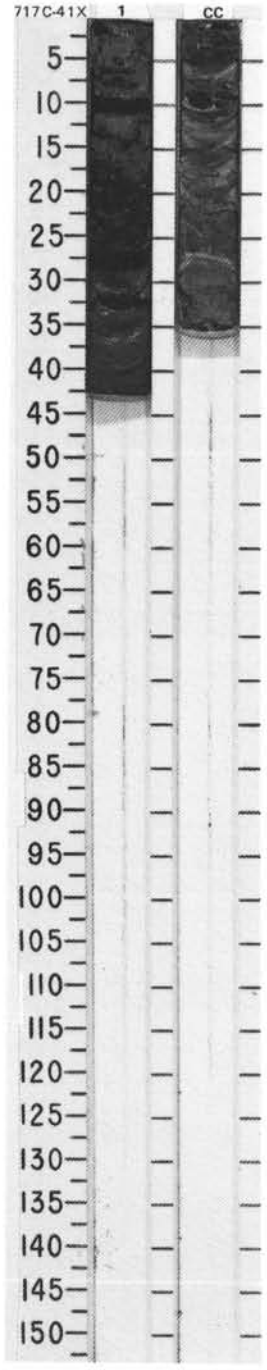
SILTY CLAY

Major lithologies: Black (2.5G 2.5/0) silty clay.

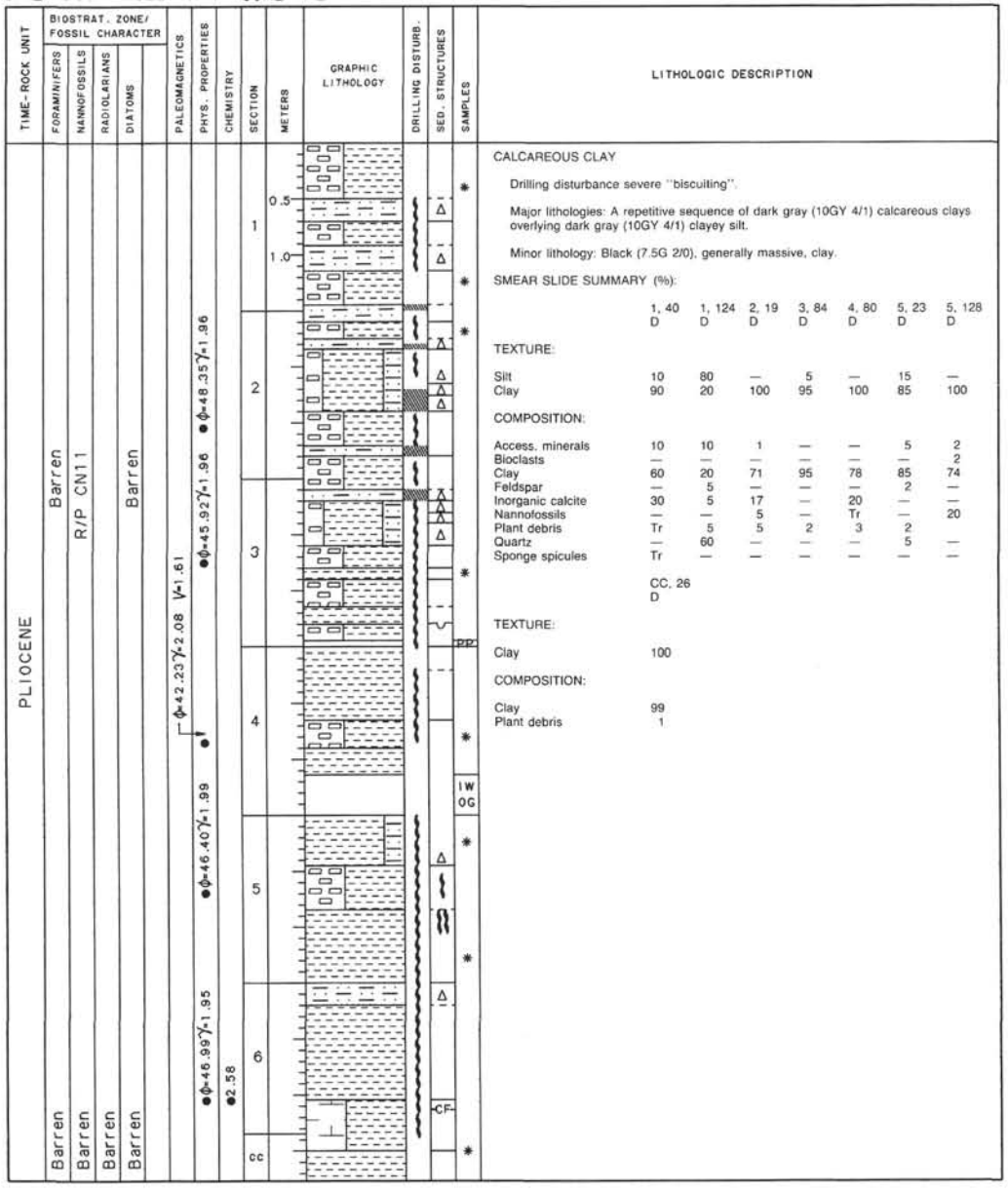
Minor lithologies: Dark greenish gray (5GY 4/1) clay and dark gray (10GY 4/1) sandy micaceous silt.

SMEAR SLIDE SUMMARY (%):

	1, 35 D	CC, 34 M
TEXTURE:		
Sand	—	10
Silt	10	90
Clay	90	—
COMPOSITION:		
Access. minerals	3	5
Clay	95	—
Feldspar	—	5
Mica	—	10
Nannofossils	Tr	—
Plant debris	2	—
Quartz	—	80



SITE 717 HOLE C CORE 42X CORED INTERVAL 5094.2-5103.7 mbsl; 359.5-369.0 mbsf



LITHOLOGIC DESCRIPTION

CALCAREOUS CLAY

Drilling disturbance severe "biscuiting".

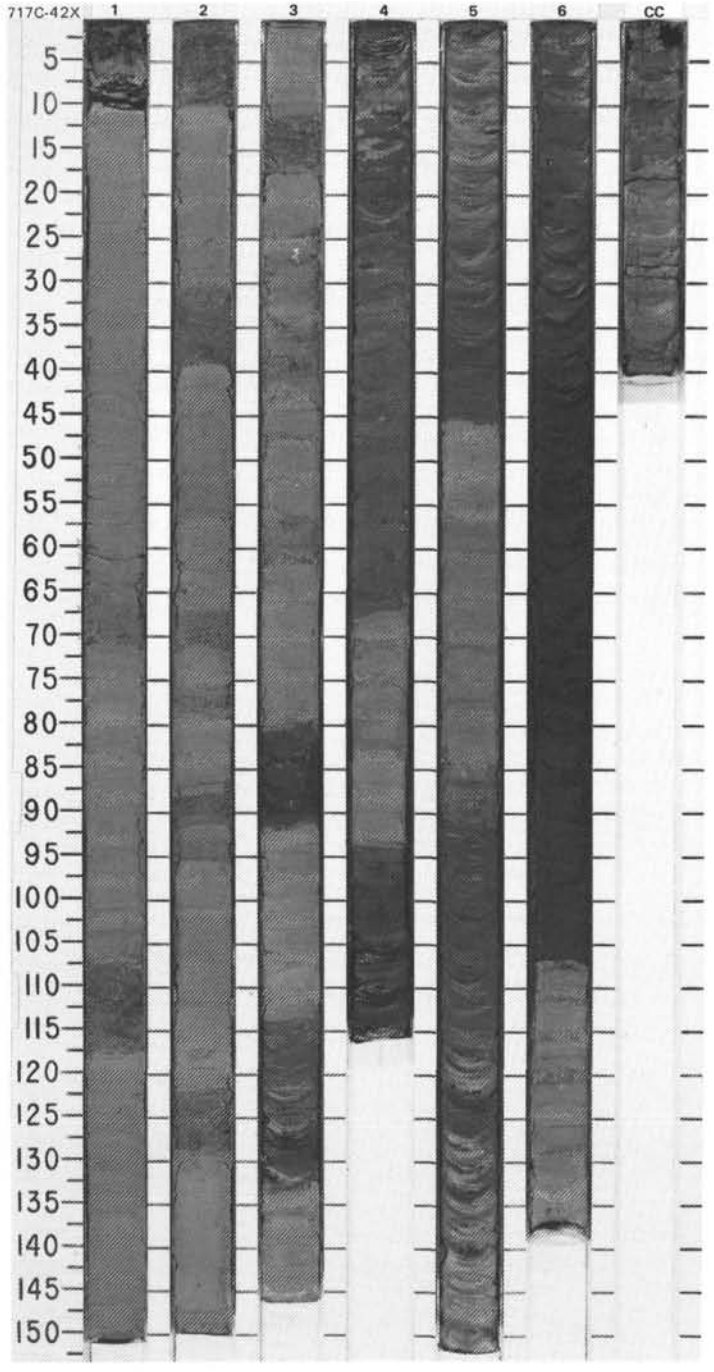
Major lithologies: A repetitive sequence of dark gray (10GY 4/1) calcareous clays overlying dark gray (10GY 4/1) clayey silt.

Minor lithology: Black (7.5G 2/0), generally massive, clay.

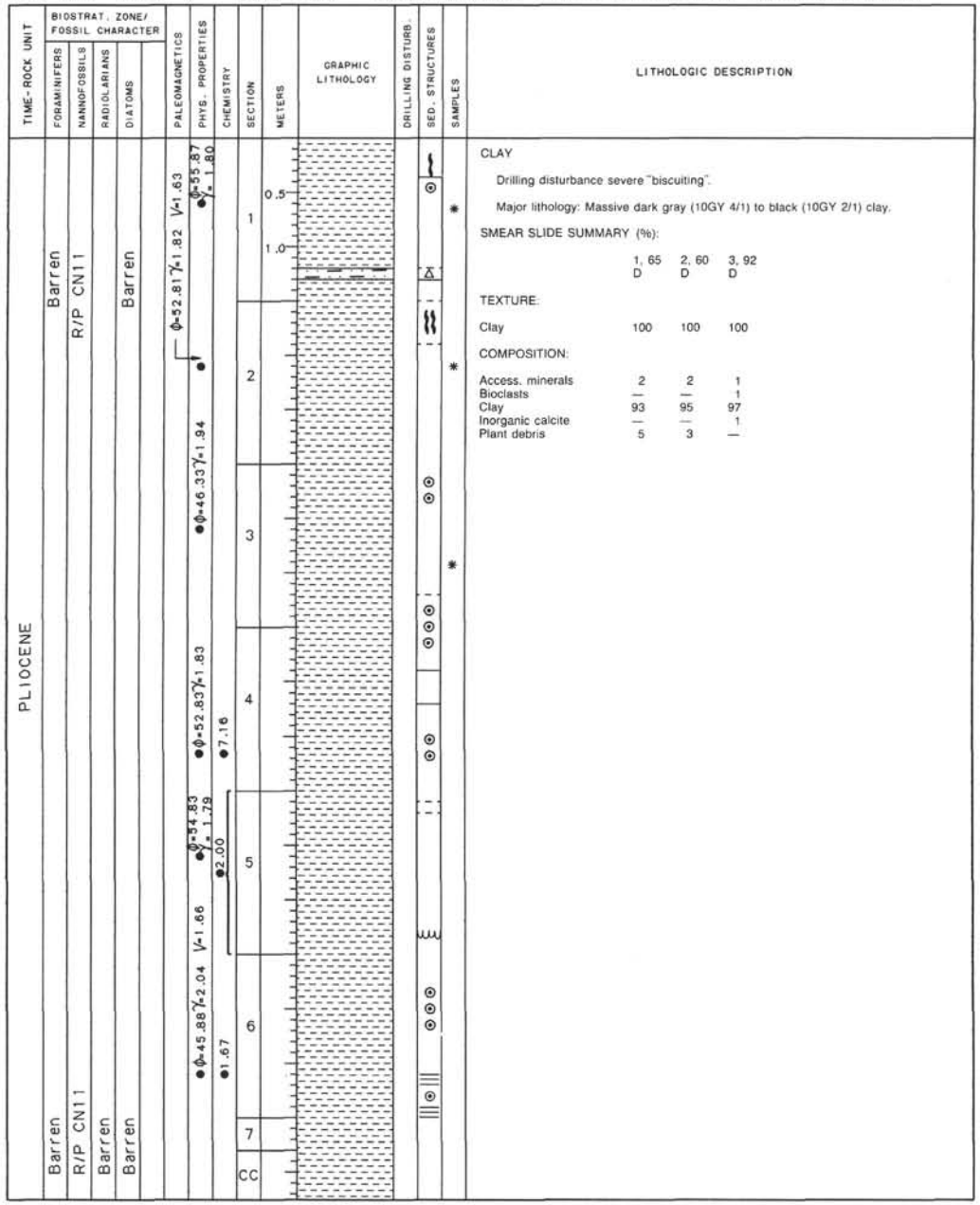
SMEAR SLIDE SUMMARY (%):

	1, 40 D	1, 124 D	2, 19 D	3, 84 D	4, 80 D	5, 23 D	5, 128 D
TEXTURE:							
Silt	10	80	—	5	—	15	—
Clay	90	20	100	95	100	85	100
COMPOSITION:							
Access. minerals	10	10	1	—	—	5	2
Bioclasts	—	—	—	—	—	—	2
Clay	60	20	71	95	78	85	74
Feldspar	—	5	—	—	—	2	—
Inorganic calcite	30	5	17	—	20	—	—
Nannofossils	—	—	5	—	Tr	—	20
Plant debris	Tr	5	5	2	3	2	
Quartz	—	60	—	—	—	5	—
Sponge spicules	Tr	—	—	—	—	—	—

	CC, 26 D
TEXTURE:	
Clay	100
COMPOSITION:	
Clay	99
Plant debris	1



SITE 717 HOLE C CORE 43X CORED INTERVAL 5103.7-5113.2 mbsl; 369.0-378.5 mbsf



LITHOLOGIC DESCRIPTION

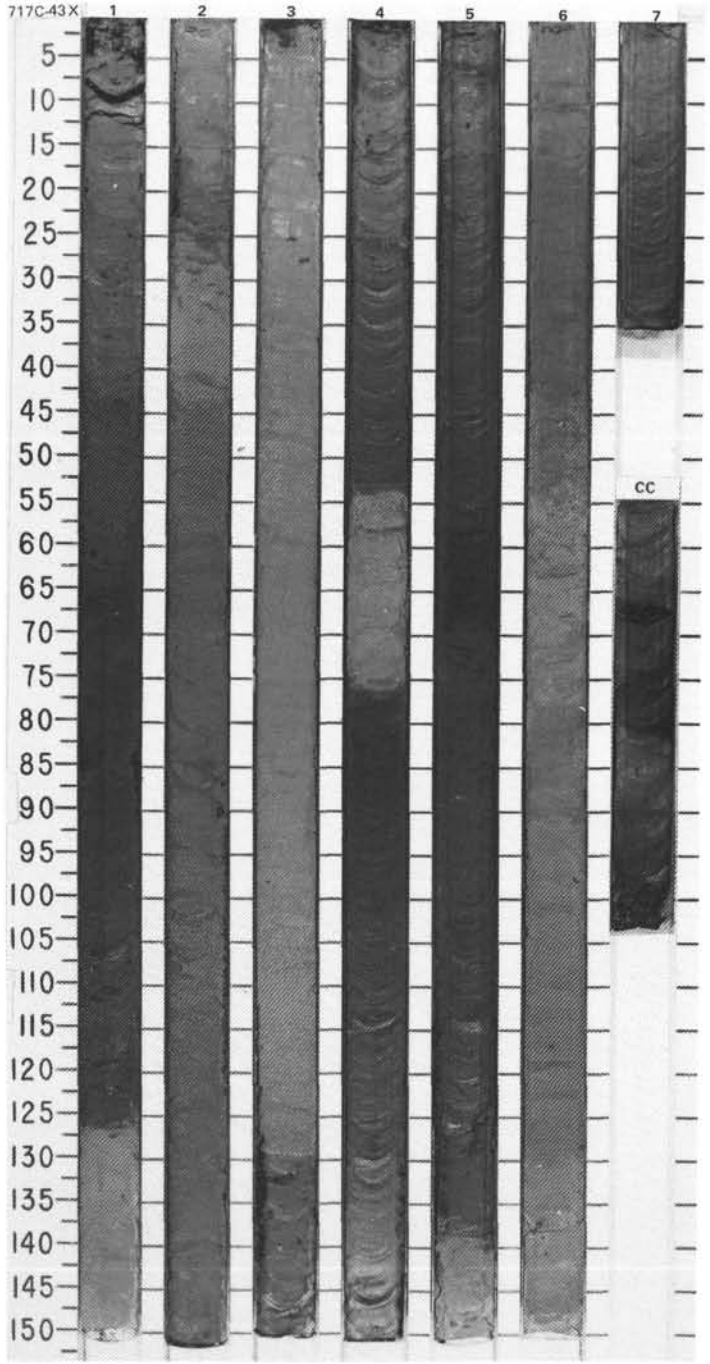
CLAY

Drilling disturbance severe "biscuiting".

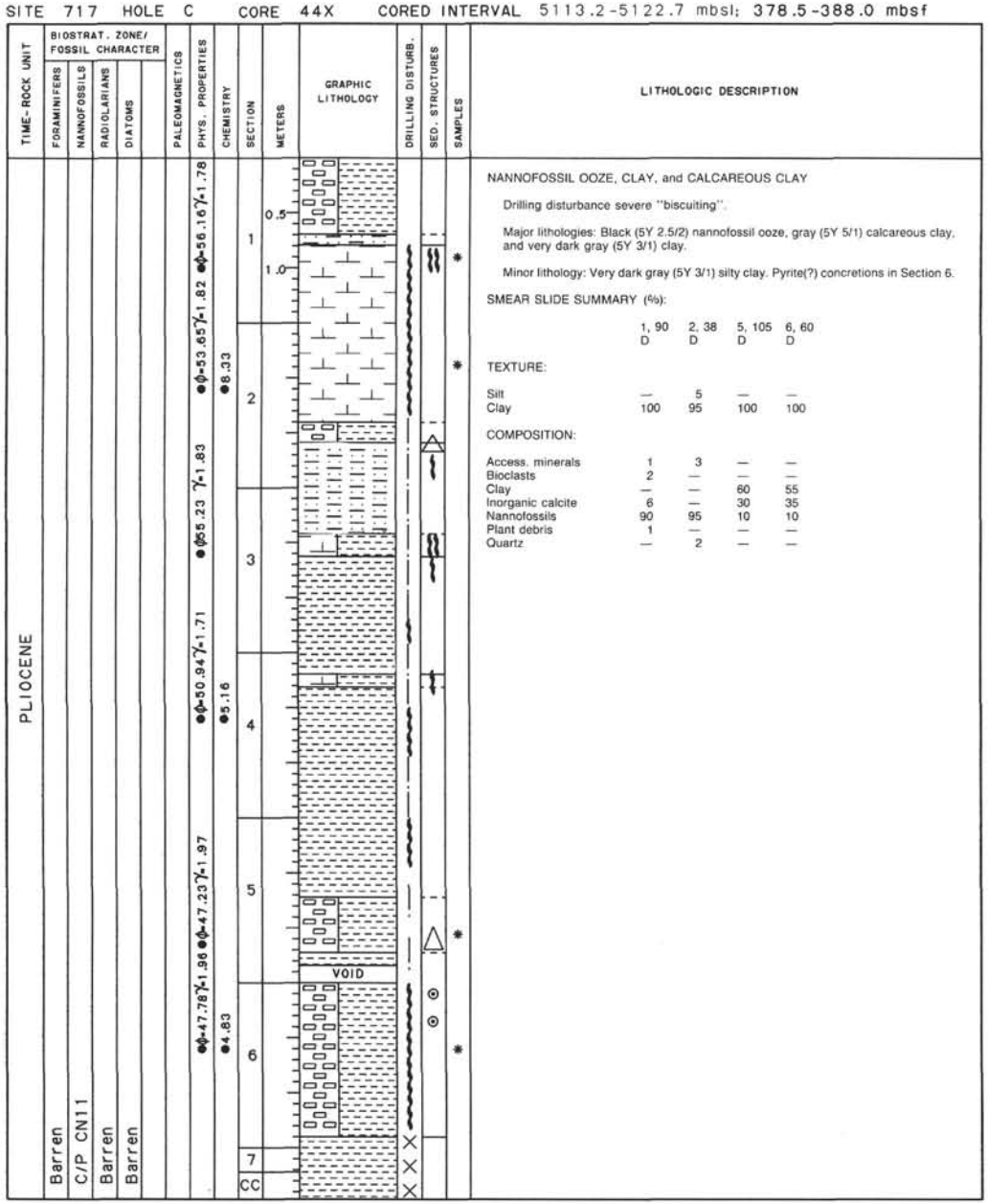
Major lithology: Massive dark gray (10GY 4/1) to black (10GY 2/1) clay.

SMEAR SLIDE SUMMARY (%):

	1, 65 D	2, 60 D	3, 92 D
TEXTURE:			
Clay	100	100	100
COMPOSITION:			
Access. minerals	2	2	1
Bioclasts	—	—	1
Clay	93	95	97
Inorganic calcite	—	—	1
Plant debris	5	3	—



SITE 717 HOLE C CORE 44X CORED INTERVAL 5113.2-5122.7 mbsl; 378.5-388.0 mbsf



LITHOLOGIC DESCRIPTION

NANNOFOSSIL OOZE, CLAY, and CALCAREOUS CLAY

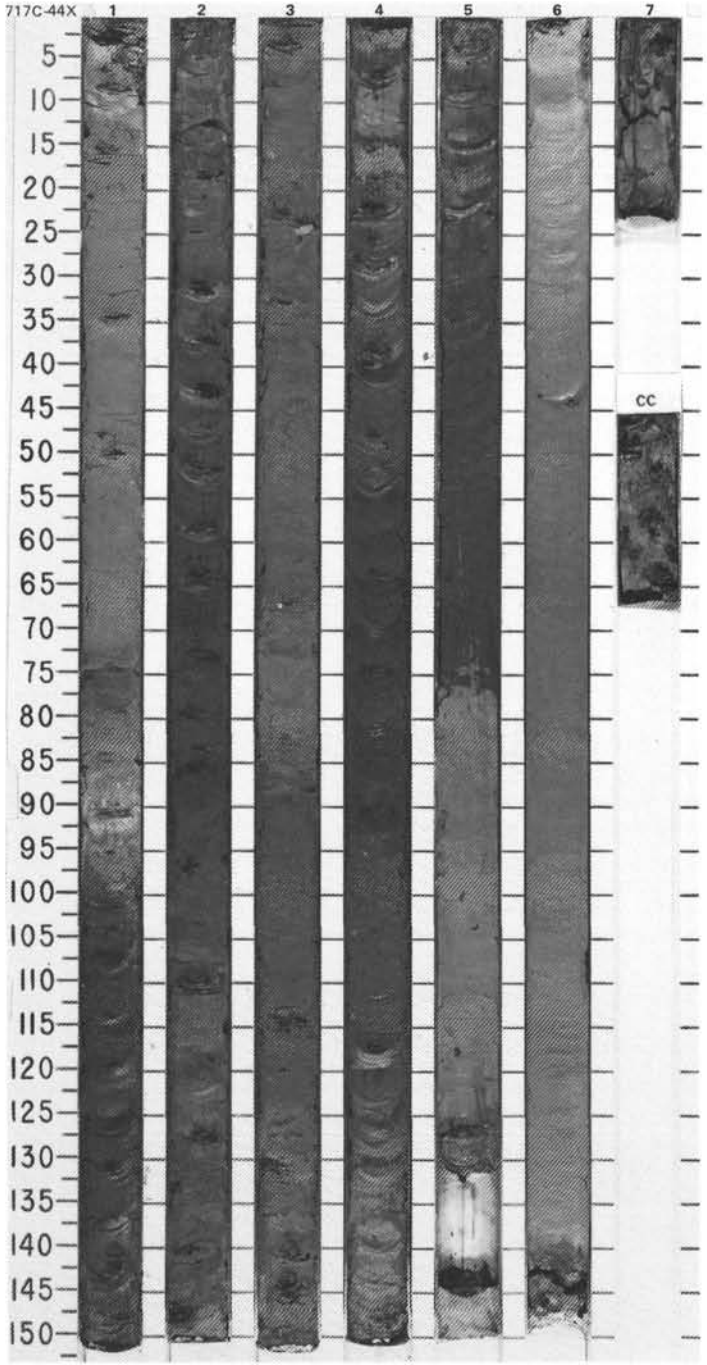
Drilling disturbance severe "biscuiting".

Major lithologies: Black (5Y 2.5/2) nannofossil ooze, gray (5Y 5/1) calcareous clay, and very dark gray (5Y 3/1) clay.

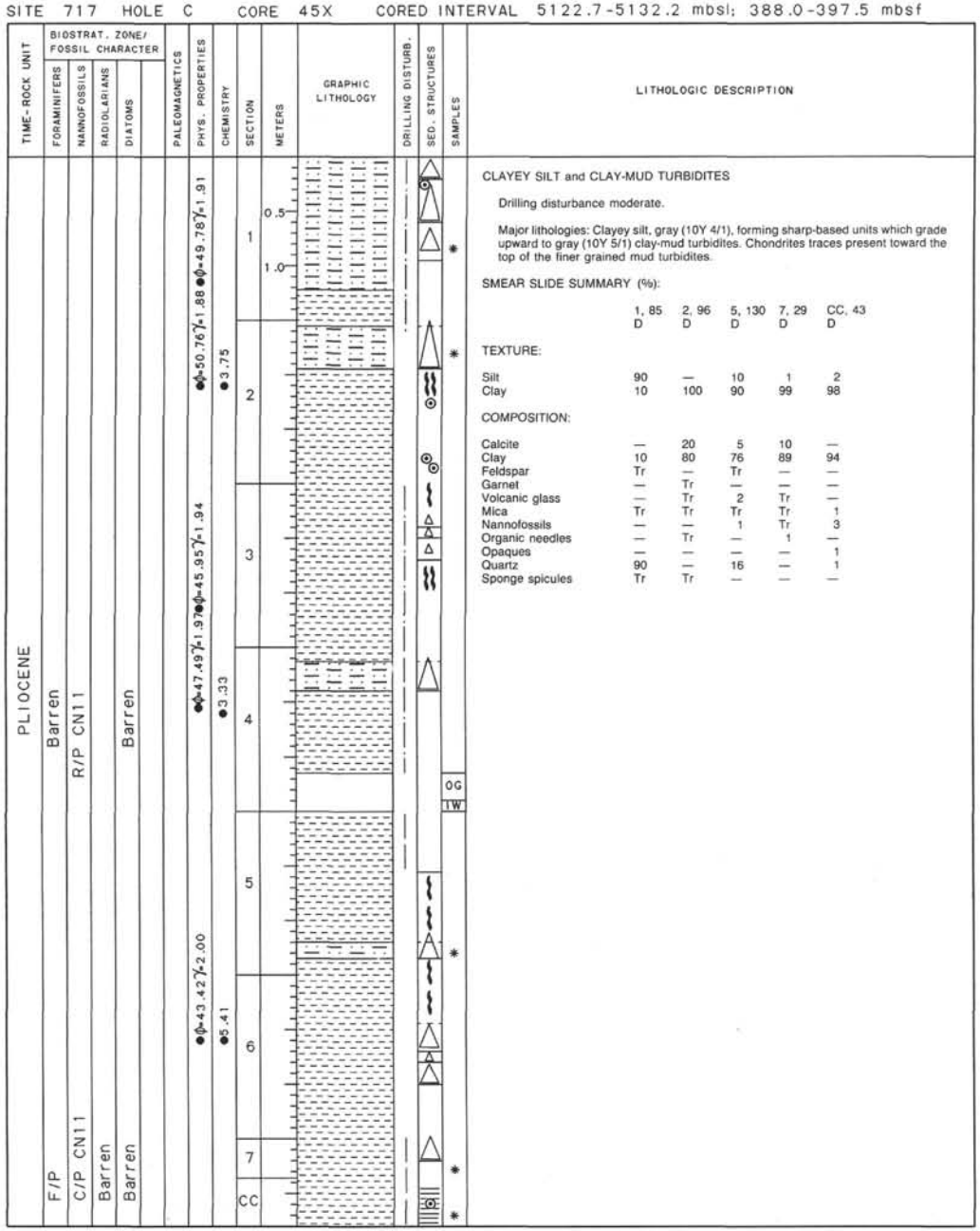
Minor lithology: Very dark gray (5Y 3/1) silty clay. Pyrite(?) concretions in Section 6.

SMEAR SLIDE SUMMARY (%):

	1, 90 D	2, 38 D	5, 105 D	6, 60 D
TEXTURE:				
Silt	—	5	—	—
Clay	100	95	100	100
COMPOSITION:				
Access. minerals	1	3	—	—
Bioclasts	2	—	—	—
Clay	—	—	60	55
Inorganic calcite	6	—	30	35
Nannofossils	90	95	10	10
Plant debris	1	—	—	—
Quartz	—	2	—	—



SITE 717 HOLE C CORE 45X CORED INTERVAL 5122.7-5132.2 mbsl; 388.0-397.5 mbsf



LITHOLOGIC DESCRIPTION

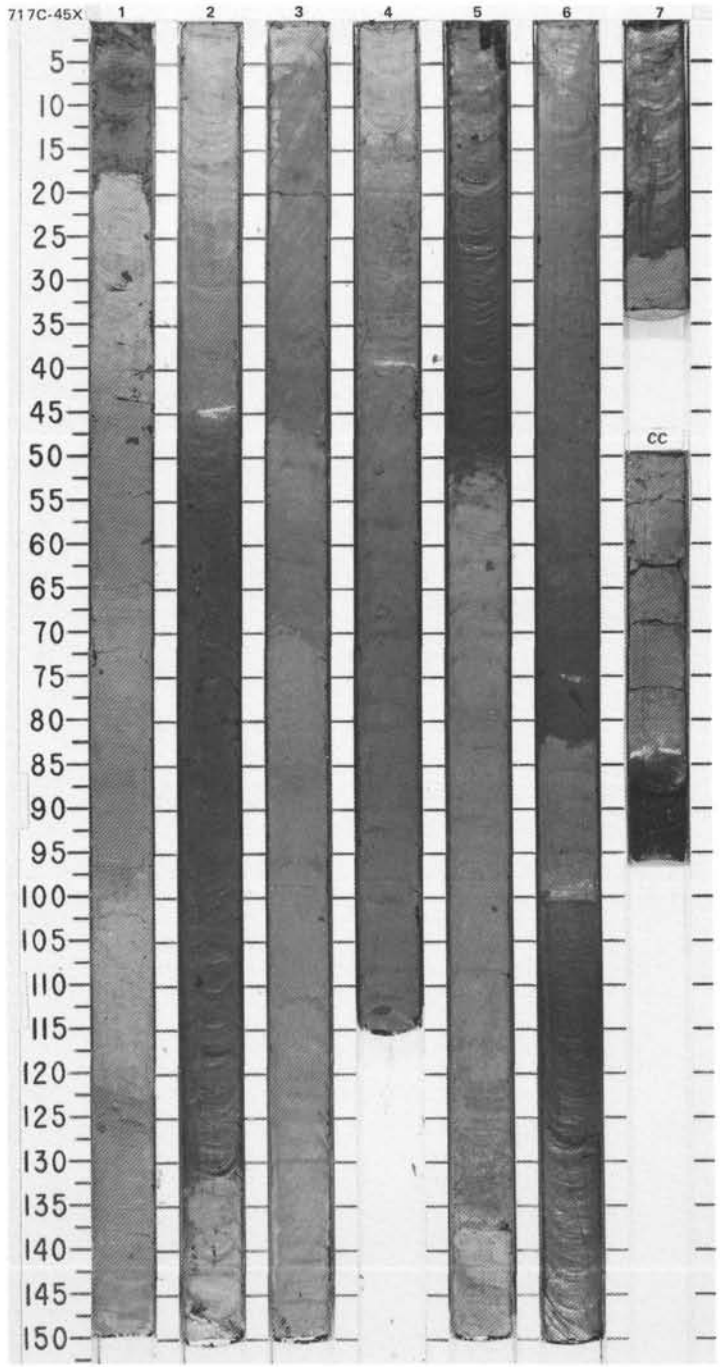
CLAYEY SILT and CLAY-MUD TURBIDITES

Drilling disturbance moderate.

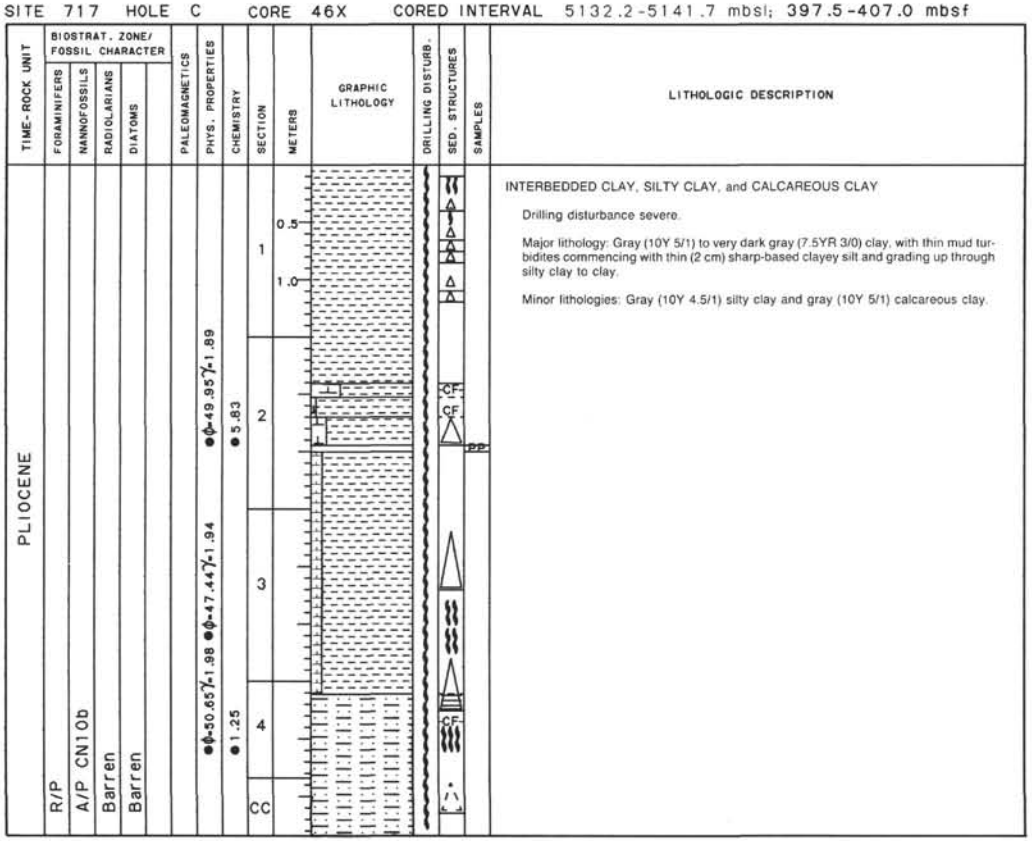
Major lithologies: Clayey silt, gray (10Y 4/1), forming sharp-based units which grade upward to gray (10Y 5/1) clay-mud turbidites. Chondrites traces present toward the top of the finer grained mud turbidites.

SMEAR SLIDE SUMMARY (%):

	1, 85 D	2, 96 D	5, 130 D	7, 29 D	CC, 43 D
TEXTURE:					
Silt	90	—	10	1	2
Clay	10	100	90	99	98
COMPOSITION:					
Calcite	—	20	5	10	—
Clay	10	80	76	89	94
Feldspar	Tr	—	Tr	—	—
Garnet	—	Tr	—	—	—
Volcanic glass	—	Tr	2	Tr	—
Mica	Tr	Tr	Tr	Tr	1
Nannofossils	—	—	1	Tr	3
Organic needles	—	Tr	—	1	—
Opaques	—	—	—	—	1
Quartz	90	—	16	—	1
Sponge spicules	Tr	Tr	—	—	—



SITE 717 HOLE C CORE 46X CORED INTERVAL 5132.2-5141.7 mbsl; 397.5-407.0 mbsf

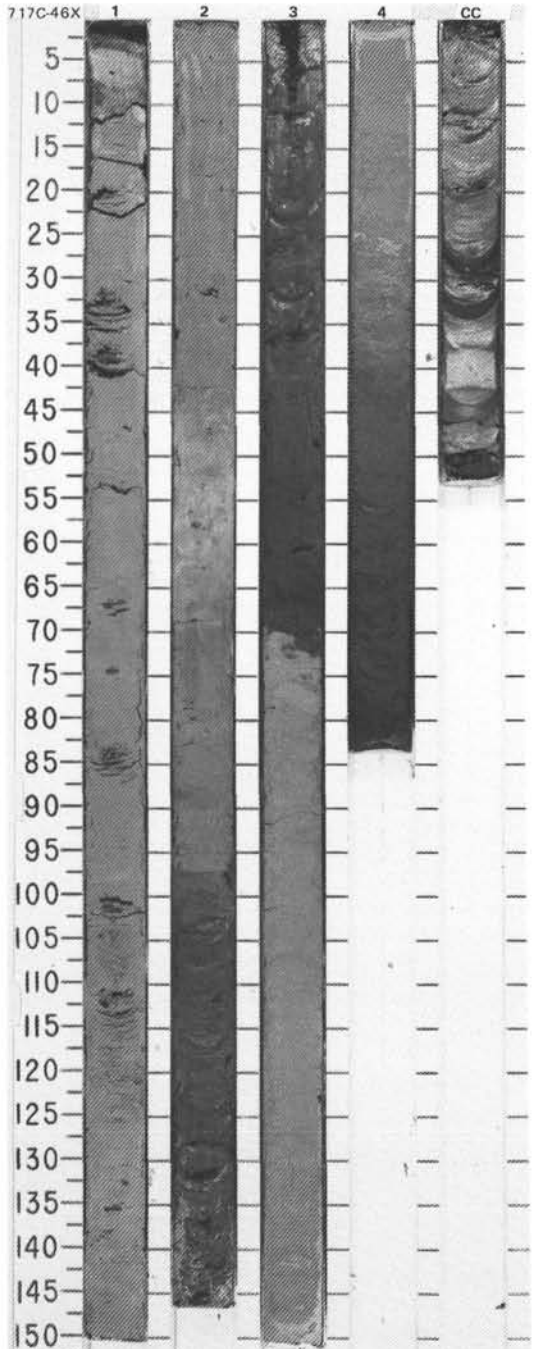


INTERBEDDED CLAY, SILTY CLAY, and CALCAREOUS CLAY

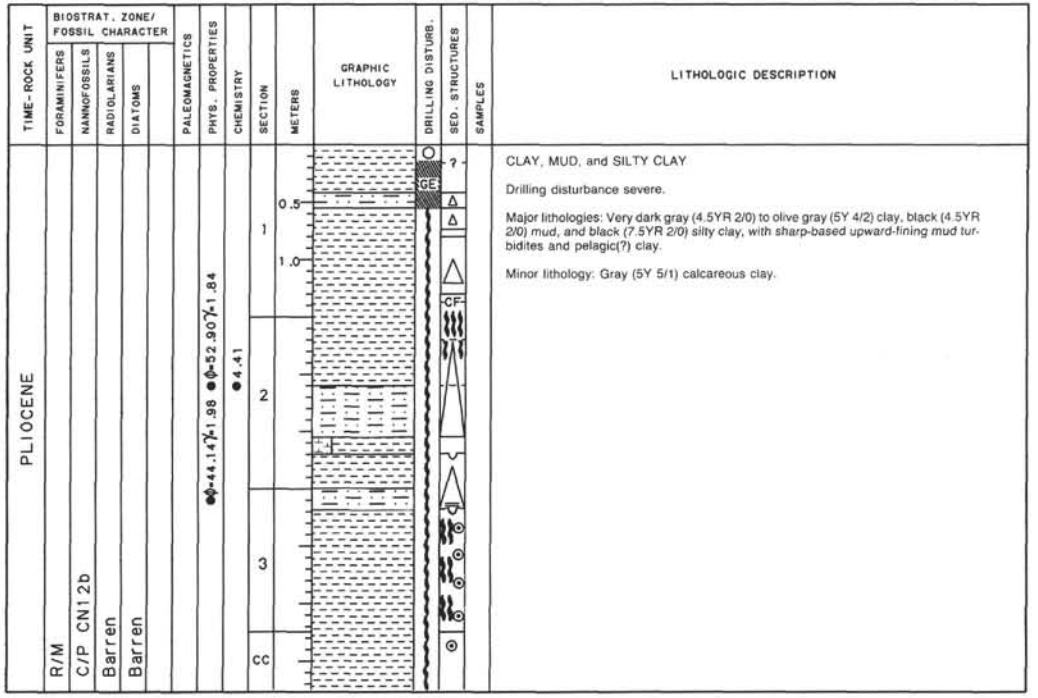
Drilling disturbance severe.

Major lithology: Gray (10Y 5/1) to very dark gray (7.5YR 3/0) clay, with thin mud turbidites commencing with thin (2 cm) sharp-based clayey silt and grading up through silty clay to clay.

Minor lithologies: Gray (10Y 4.5/1) silty clay and gray (10Y 5/1) calcareous clay.



SITE 717 HOLE C CORE 47X CORED INTERVAL 5141.7-5151.2 mbsl; 407.0-416.5 mbsf

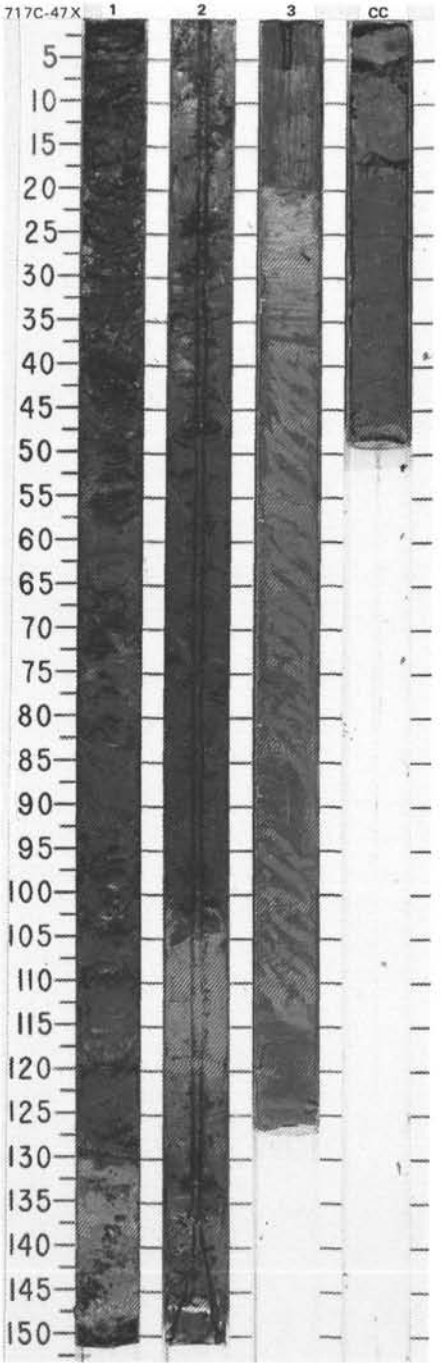


CLAY, MUD, and SILTY CLAY

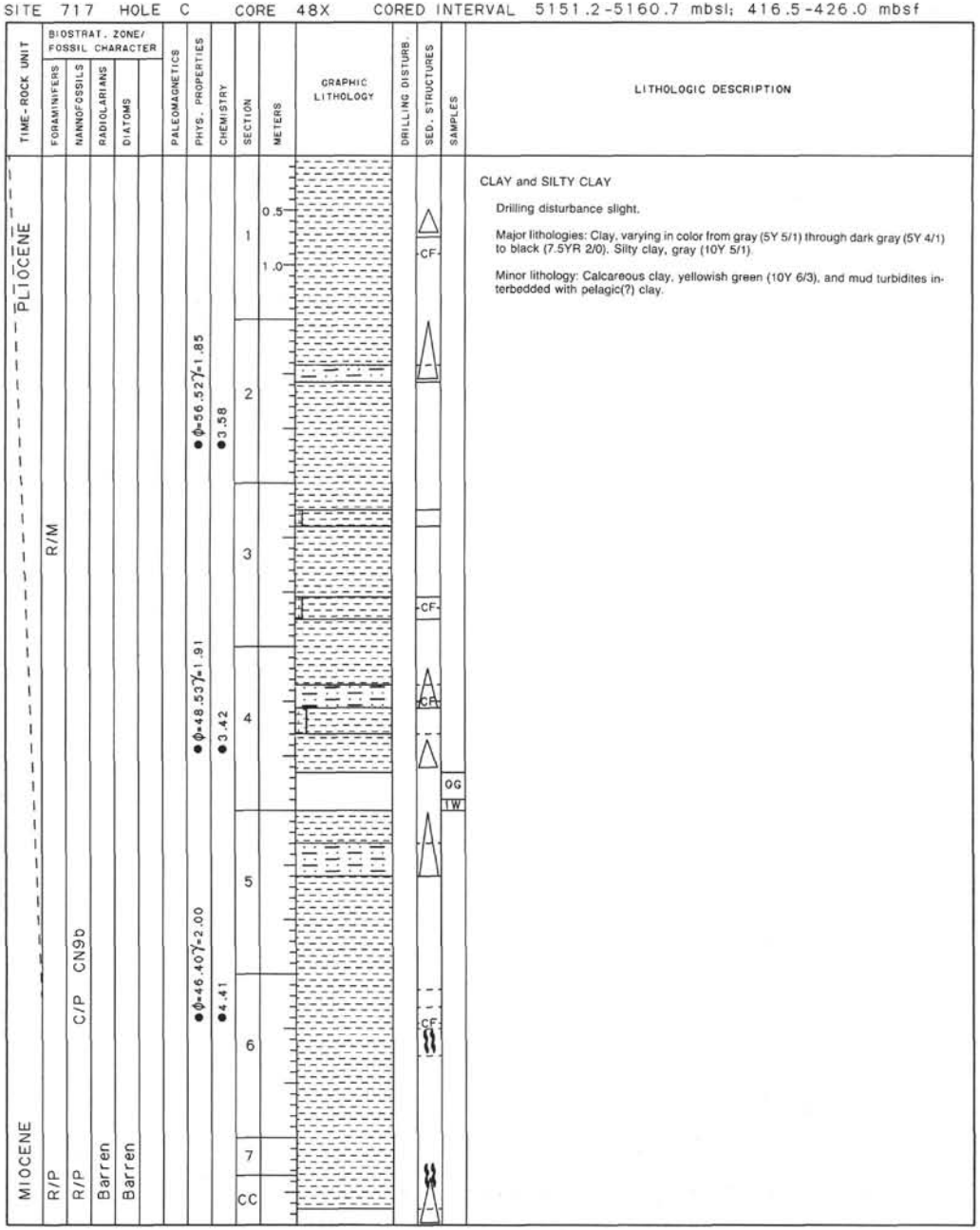
Drilling disturbance severe.

Major lithologies: Very dark gray (4.5YR 2/0) to olive gray (5Y 4/2) clay, black (4.5YR 2/0) mud, and black (7.5YR 2/0) silty clay, with sharp-based upward-fining mud turbidites and pelagic(?) clay.

Minor lithology: Gray (5Y 5/1) calcareous clay.



SITE 717 HOLE C CORE 48X CORED INTERVAL 5151.2-5160.7 mbsl; 416.5-426.0 mbsf



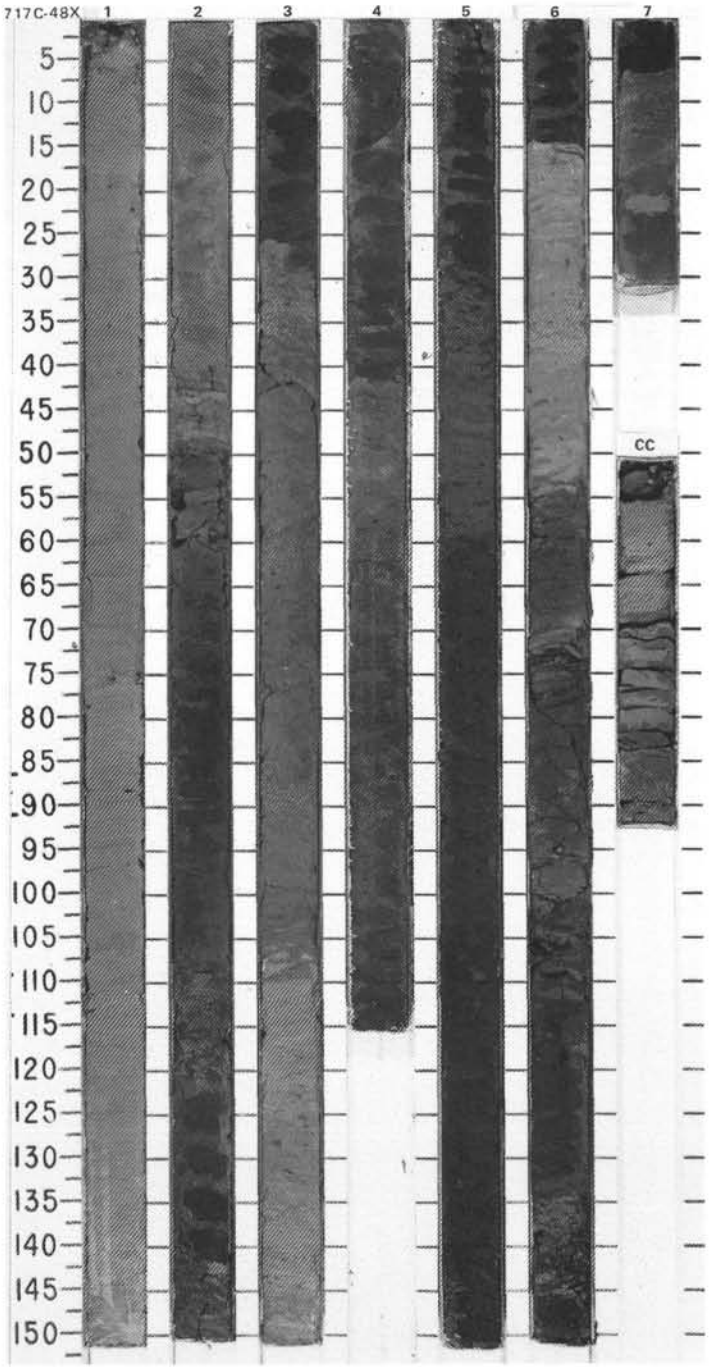
LITHOLOGIC DESCRIPTION

CLAY and SILTY CLAY

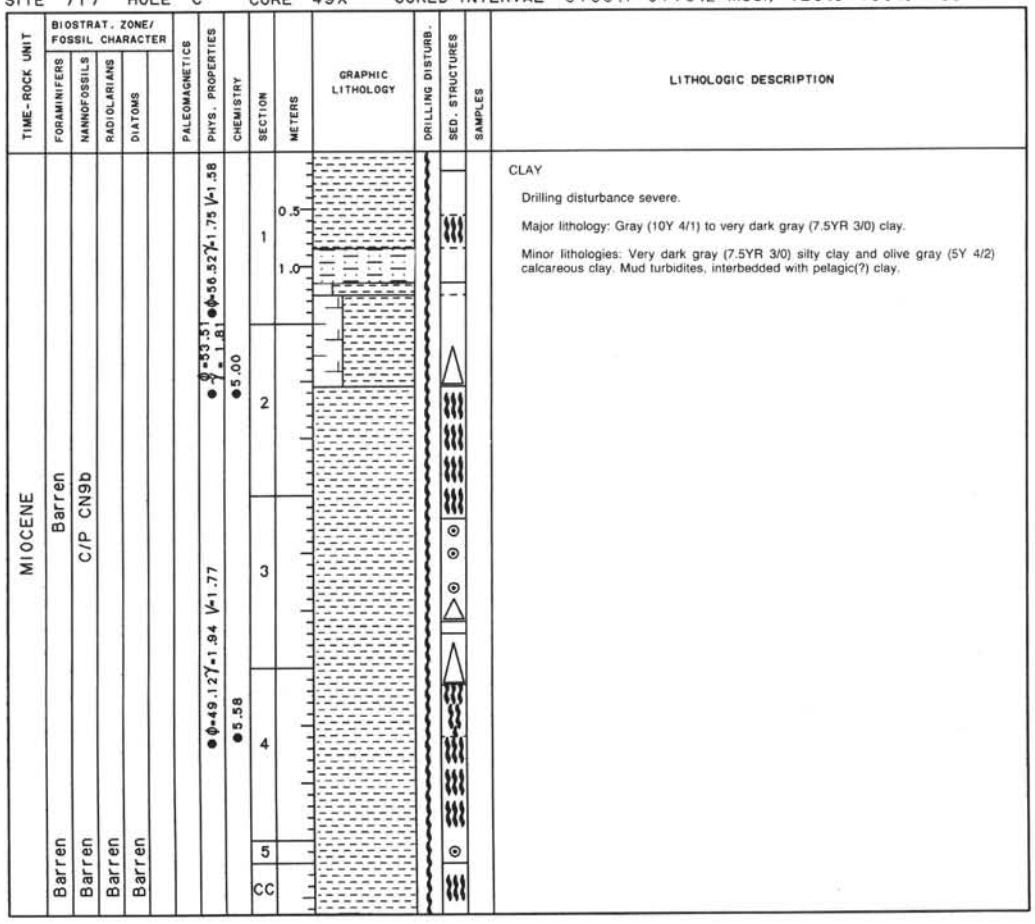
Drilling disturbance slight.

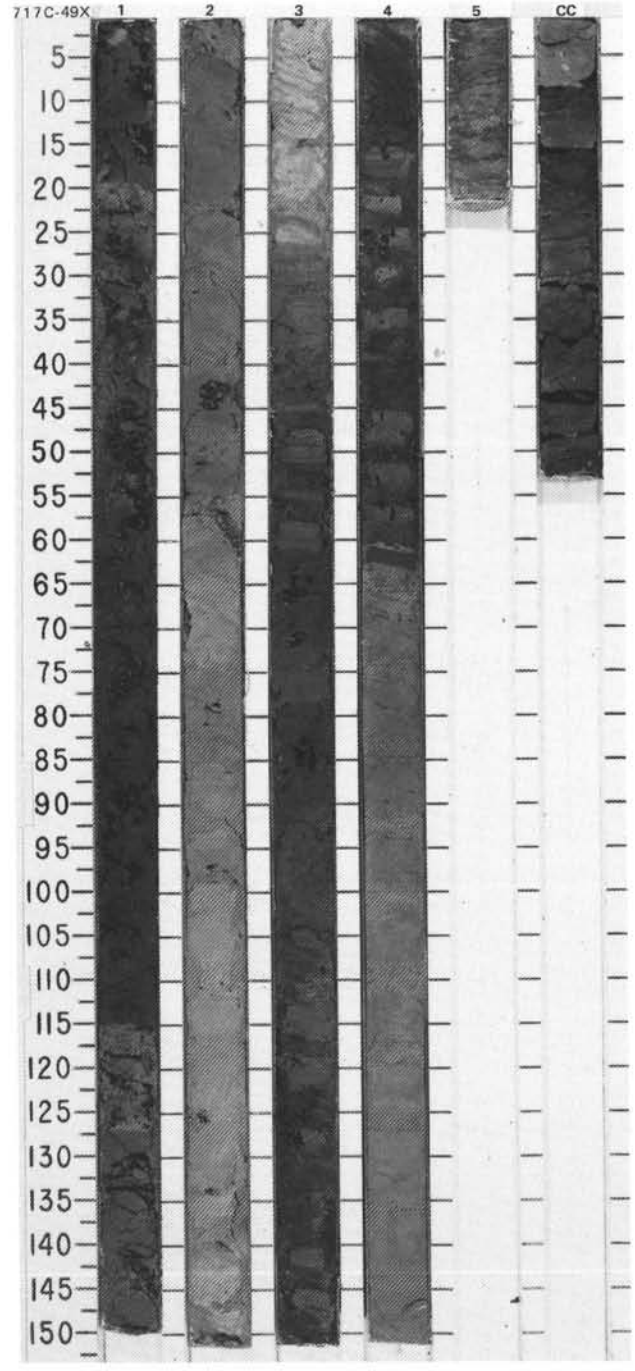
Major lithologies: Clay, varying in color from gray (5Y 5/1) through dark gray (5Y 4/1) to black (7.5YR 2/0). Silty clay, gray (10Y 5/1).

Minor lithology: Calcareous clay, yellowish green (10Y 6/3), and mud turbidites interbedded with pelagic(?) clay.



SITE 717 HOLE C CORE 49X CORED INTERVAL 5160.7-5170.2 mbsl; 426.0-435.5 mbsf





SITE 717 HOLE C CORE 50X CORED INTERVAL 5170.2-5179.7 mbsl; 435.5-445.0 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
	F/M	R/P CN9b	Barren	Barren		●φ=53.51 γ=1.87	●3.92	1	0.5, 1.0				*
								2					
						●φ=55.27 γ=1.85	●3.42	3					
								4					
					●φ=48.12 γ=1.93 V=1.63		●6.82	5					
	Barren	CP CN9b	Barren	Barren				6					
								7					
								CC					

LITHOLOGIC DESCRIPTION

CLAY

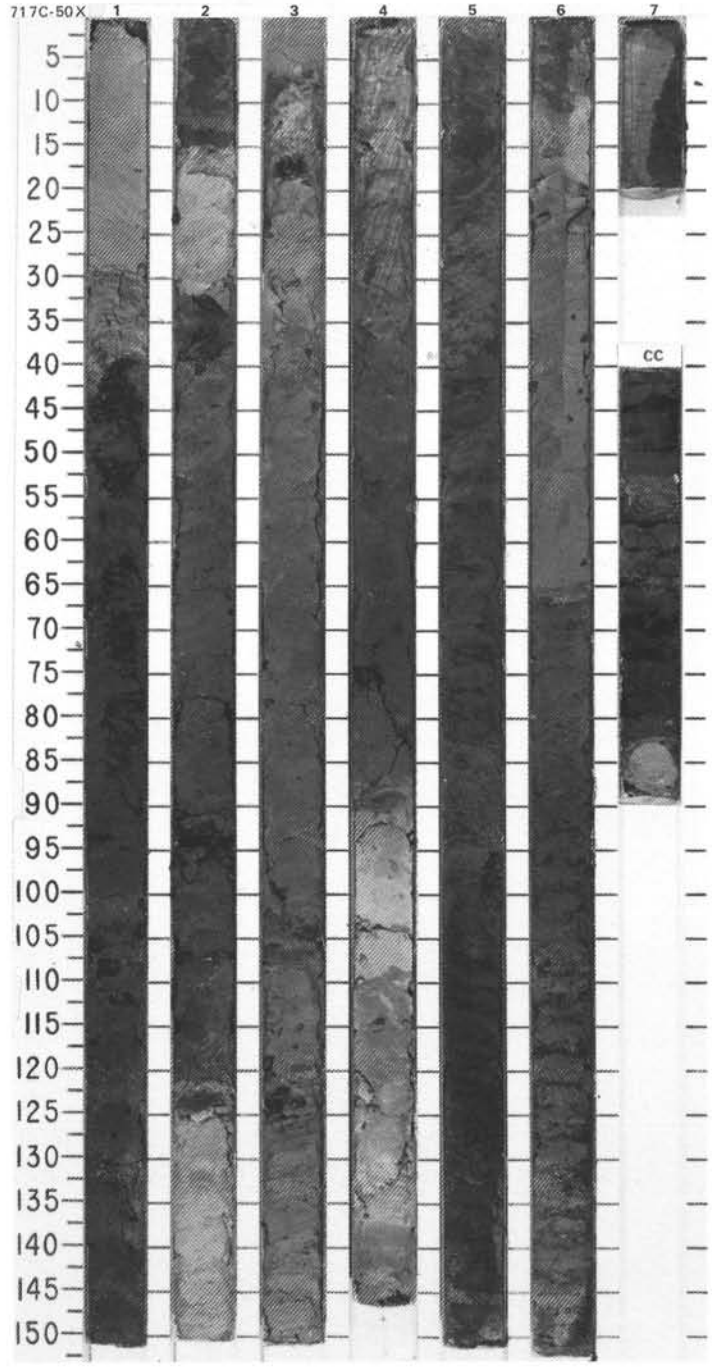
Drilling disturbance severe.

Major lithology: Gray (5Y 5/1) clay.

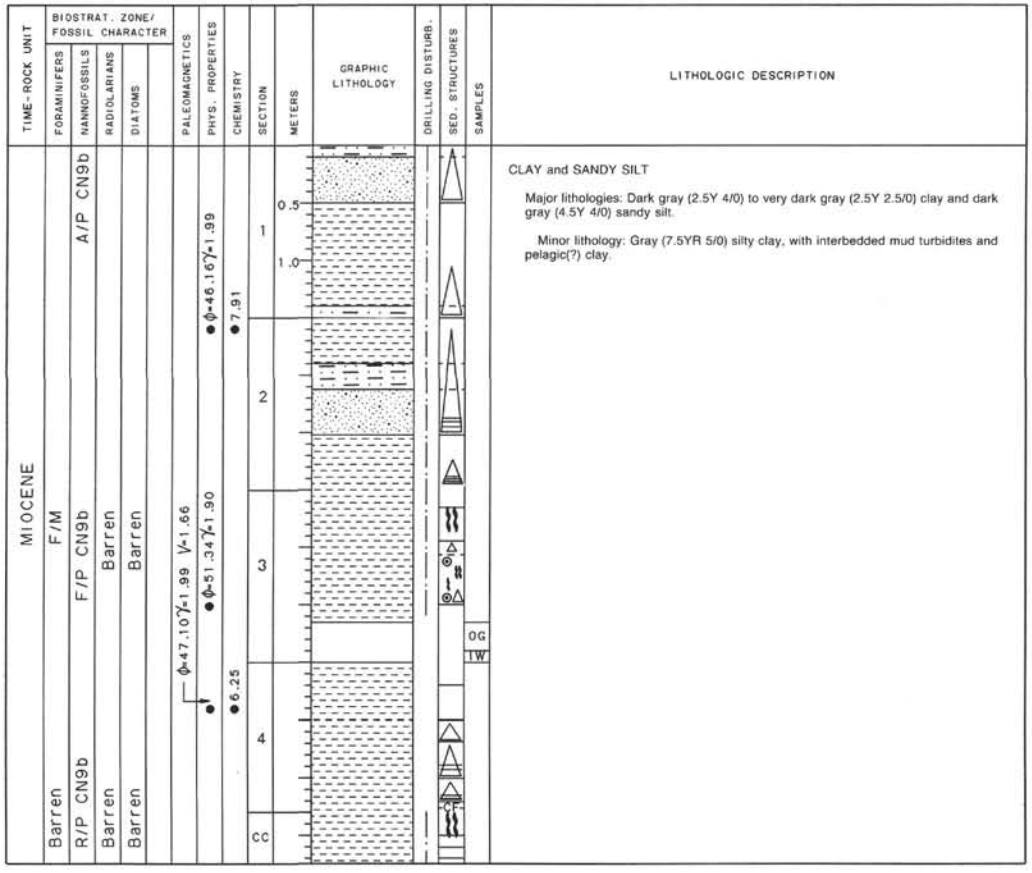
Minor lithology: Very dark gray (5Y 3/1) silty clay occurring as thin bases to mud turbidites. Pyrite concretions (2 mm) disseminated throughout core.

SMEAR SLIDE SUMMARY (%):

	1, 139
	D
TEXTURE:	
Silt	5
Clay	95
COMPOSITION:	
Access. minerals	2
Clay	94
Inorganic calcite	3
Nannofossils	1



SITE 717 HOLE C CORE 51X CORED INTERVAL 5179.7-5189.2 mbsl; 445.0-454.5 mbsf

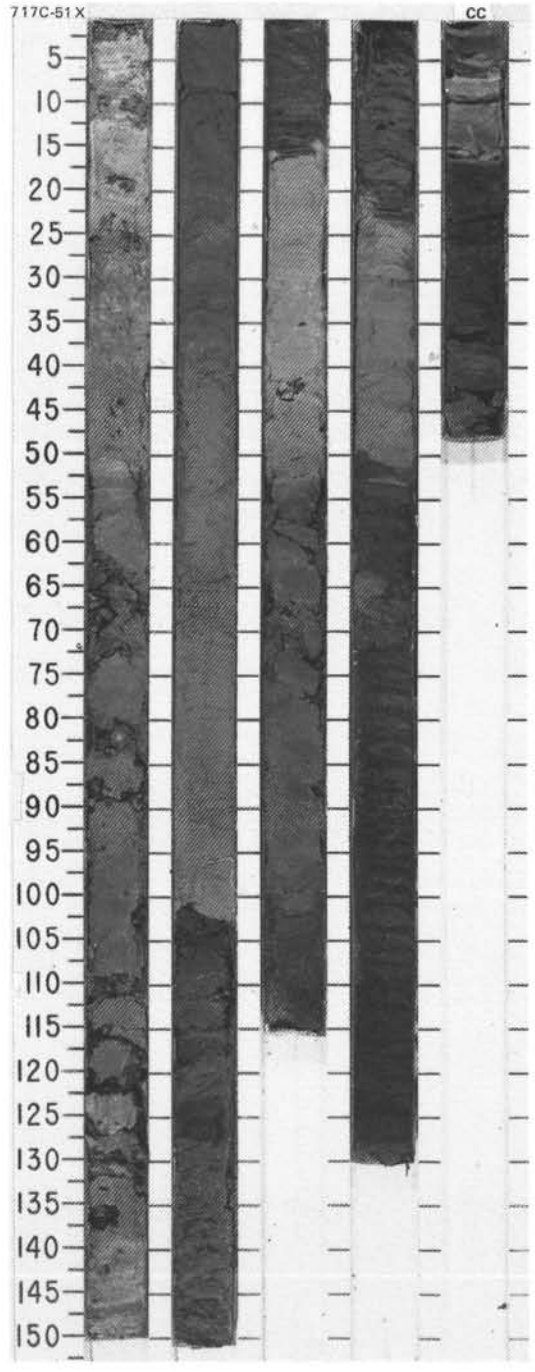


LITHOLOGIC DESCRIPTION

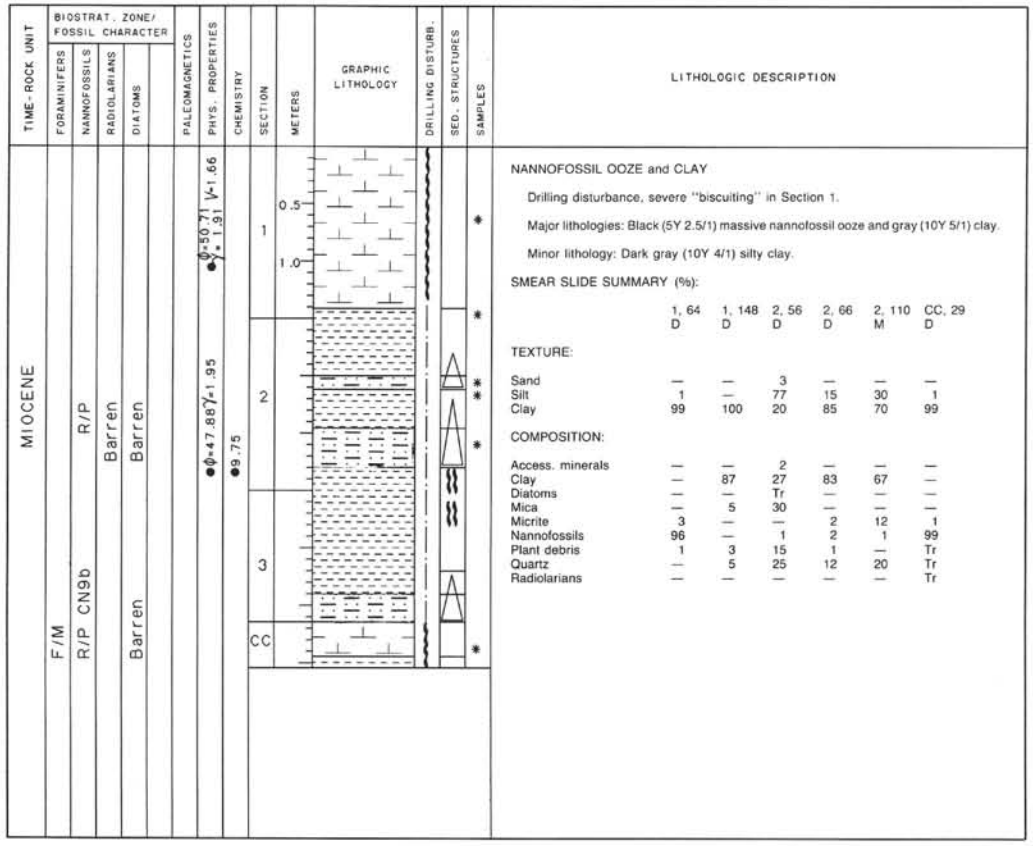
CLAY and SANDY SILT

Major lithologies: Dark gray (2.5Y 4/0) to very dark gray (2.5Y 2.5/0) clay and dark gray (4.5Y 4/0) sandy silt.

Minor lithology: Gray (7.5YR 5/0) silty clay, with interbedded mud turbidites and pelagic(?) clay.



SITE 717 HOLE C CORE 52X CORED INTERVAL 5189.2-5198.7 mbsl; 454.5-464.0 mbsf



LITHOLOGIC DESCRIPTION

NANNOFOSSIL OOZE and CLAY

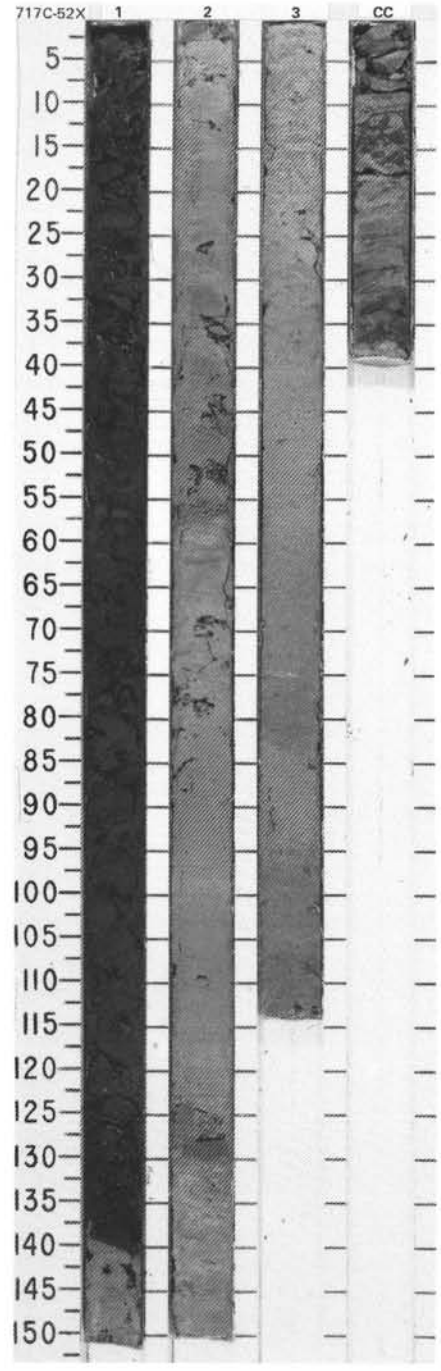
Drilling disturbance, severe "biscuiting" in Section 1.

Major lithologies: Black (5Y 2.5/1) massive nannofossil ooze and gray (10Y 5/1) clay.

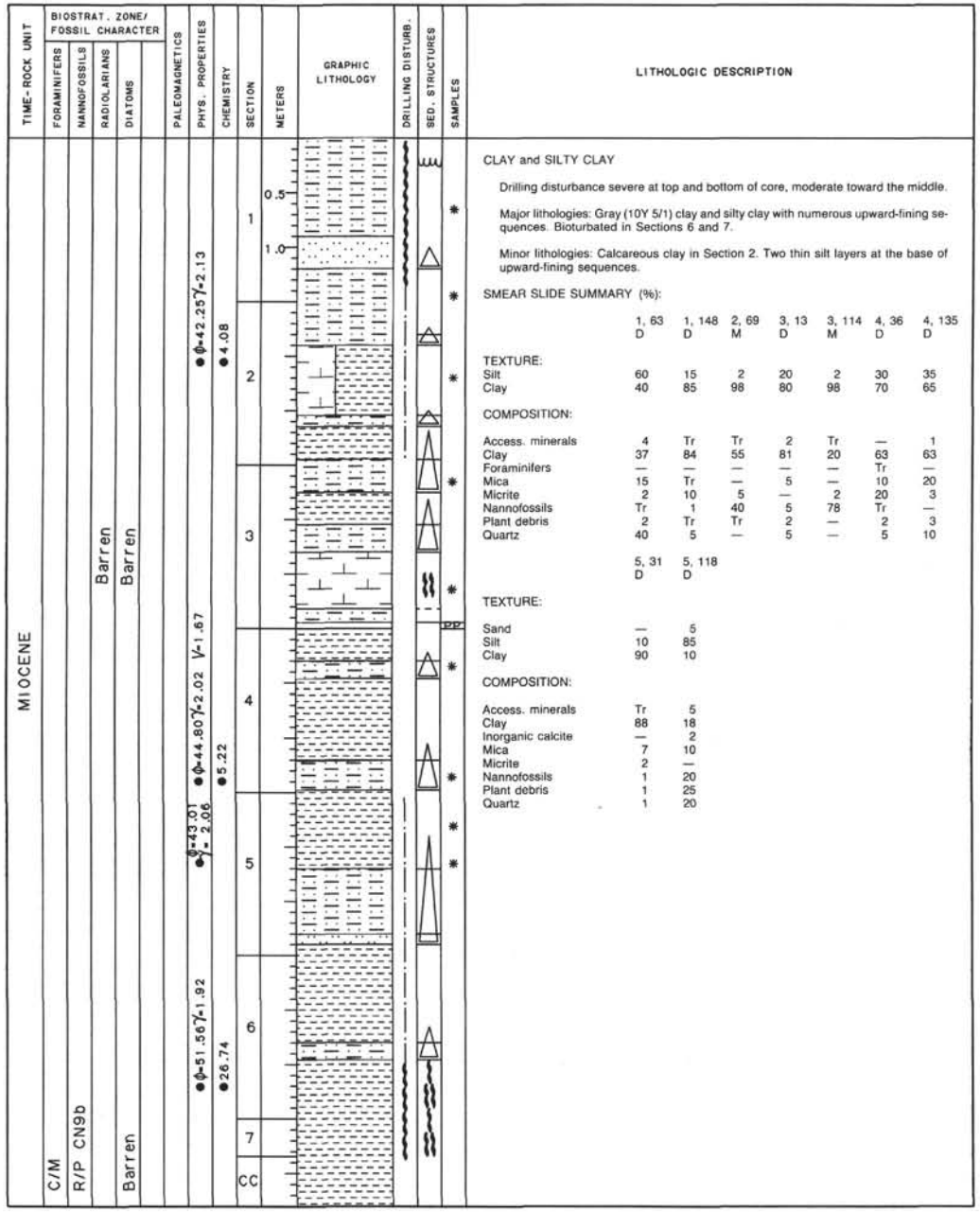
Minor lithology: Dark gray (10Y 4/1) silty clay.

SMEAR SLIDE SUMMARY (%):

	1, 64 D	1, 148 D	2, 56 D	2, 66 D	2, 110 M	CC, 29 D
TEXTURE:						
Sand	—	—	3	—	—	—
Silt	1	—	77	15	30	1
Clay	99	100	20	85	70	99
COMPOSITION:						
Access. minerals	—	—	2	—	—	—
Clay	—	87	27	83	67	—
Diatoms	—	—	Tr	—	—	—
Mica	—	5	30	—	—	—
Micrite	3	—	—	2	12	1
Nannofossils	96	—	1	2	1	99
Plant debris	1	3	15	1	—	Tr
Quartz	—	5	25	12	20	Tr
Radiolarians	—	—	—	—	—	Tr



SITE 717 HOLE C CORE 53X CORED INTERVAL 5198.7-5208.2 mbsl; 464.0-473.5 mbsf



LITHOLOGIC DESCRIPTION

CLAY and SILTY CLAY

Drilling disturbance severe at top and bottom of core, moderate toward the middle.

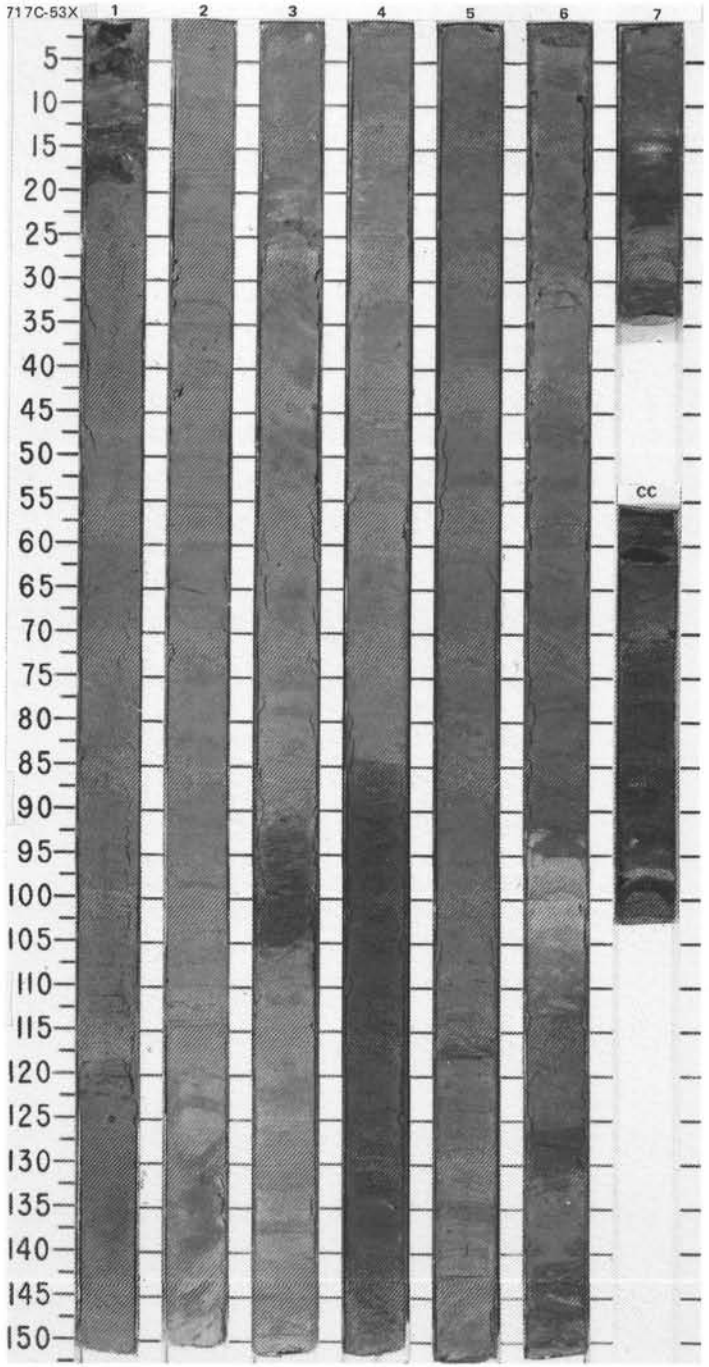
Major lithologies: Gray (10Y 5/1) clay and silty clay with numerous upward-fining sequences. Bioturbated in Sections 6 and 7.

Minor lithologies: Calcareous clay in Section 2. Two thin silt layers at the base of upward-fining sequences.

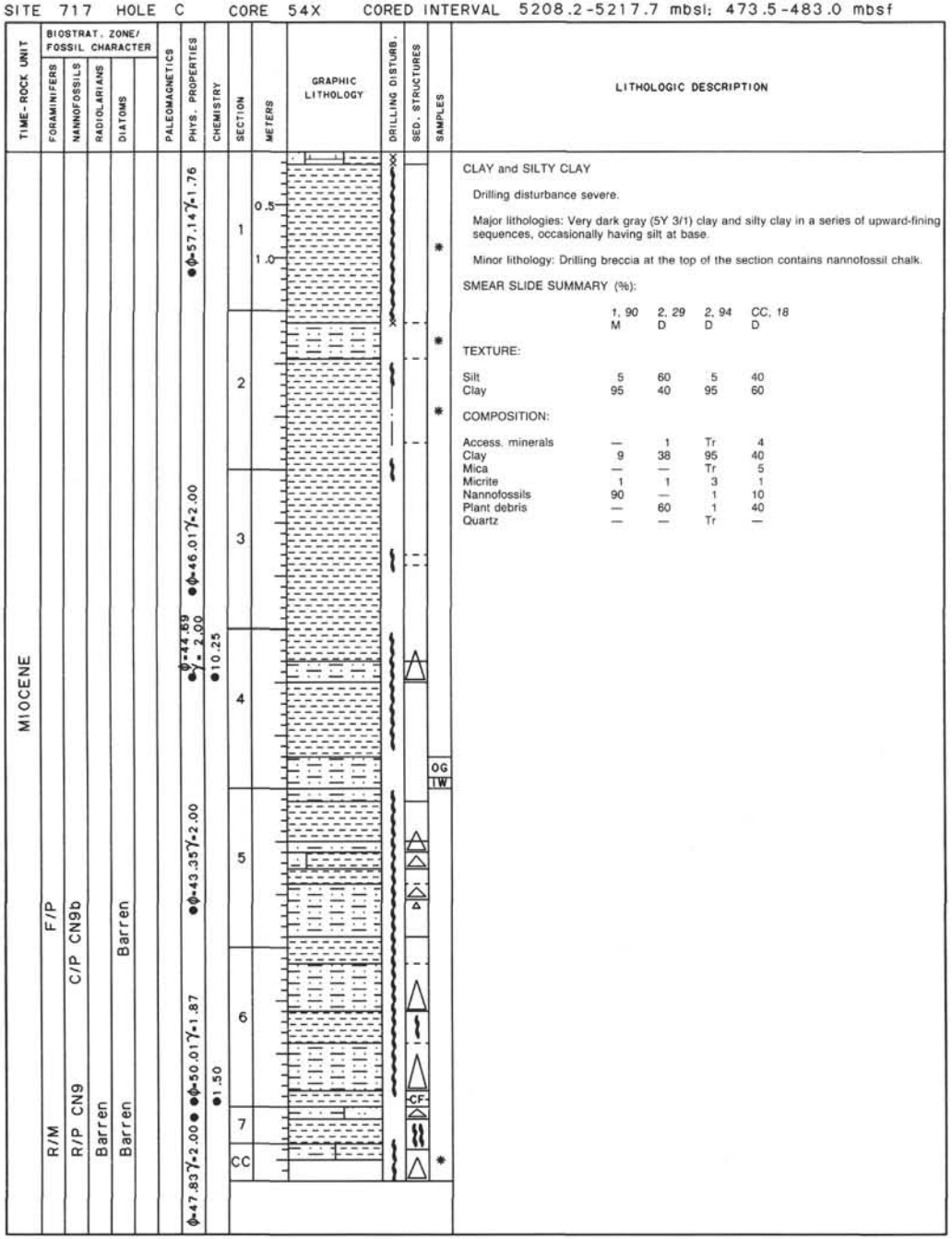
SMEAR SLIDE SUMMARY (%):

	1, 63 D	1, 148 D	2, 69 M	3, 13 D	3, 114 M	4, 36 D	4, 135 D
TEXTURE:							
Silt	60	15	2	20	2	30	35
Clay	40	85	98	80	98	70	65
COMPOSITION:							
Access. minerals	4	Tr	Tr	2	Tr	—	1
Clay	37	84	55	81	20	63	63
Foraminifers	—	—	—	—	—	Tr	—
Mica	15	Tr	—	5	—	10	20
Micrite	2	10	5	—	2	20	3
Nannofossils	Tr	1	40	5	78	Tr	—
Plant debris	2	Tr	Tr	2	—	2	3
Quartz	40	5	—	5	—	5	10

	5, 31 D	5, 118 D
TEXTURE:		
Sand	—	5
Silt	10	85
Clay	90	10
COMPOSITION:		
Access. minerals	Tr	5
Clay	88	18
Inorganic calcite	—	2
Mica	7	10
Micrite	2	—
Nannofossils	1	20
Plant debris	1	25
Quartz	1	20



SITE 717 HOLE C CORE 54X CORED INTERVAL 5208.2-5217.7 mbsl; 473.5-483.0 mbsf



LITHOLOGIC DESCRIPTION

CLAY and SILTY CLAY

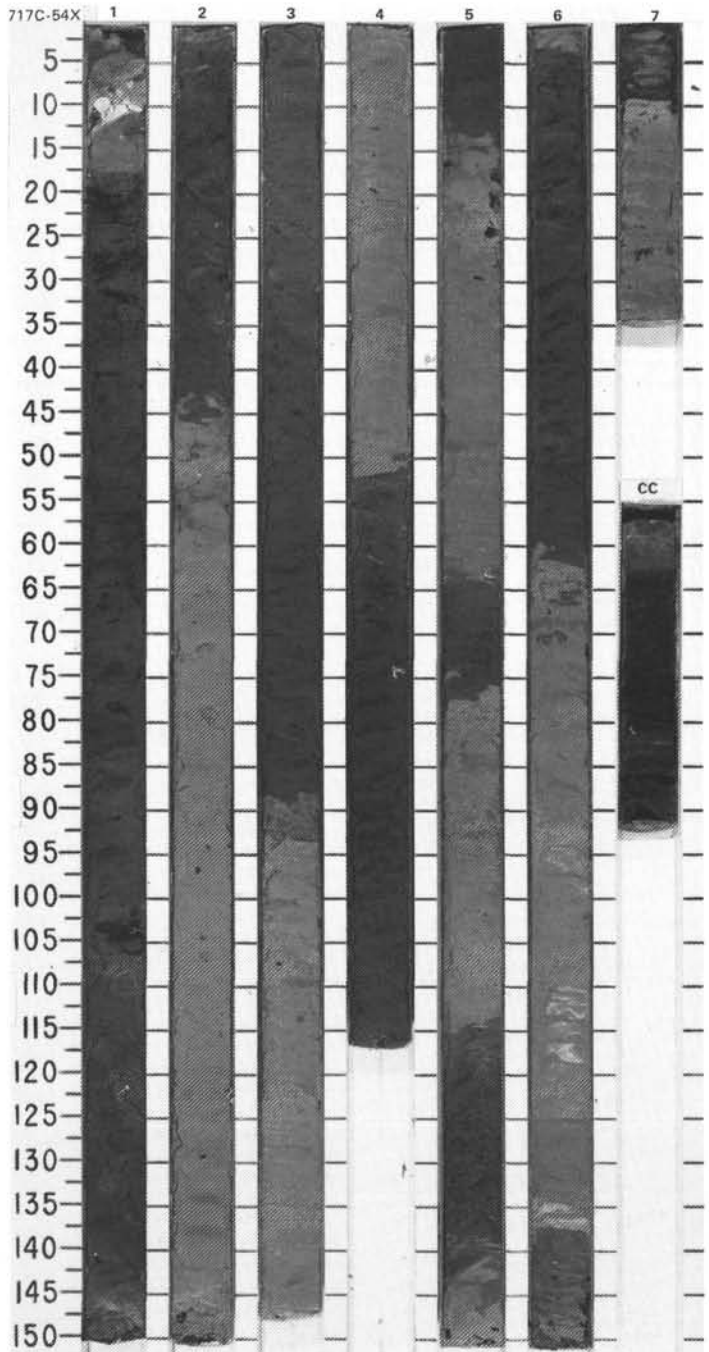
Drilling disturbance severe.

Major lithologies: Very dark gray (5Y 3/1) clay and silty clay in a series of upward-fining sequences, occasionally having silt at base.

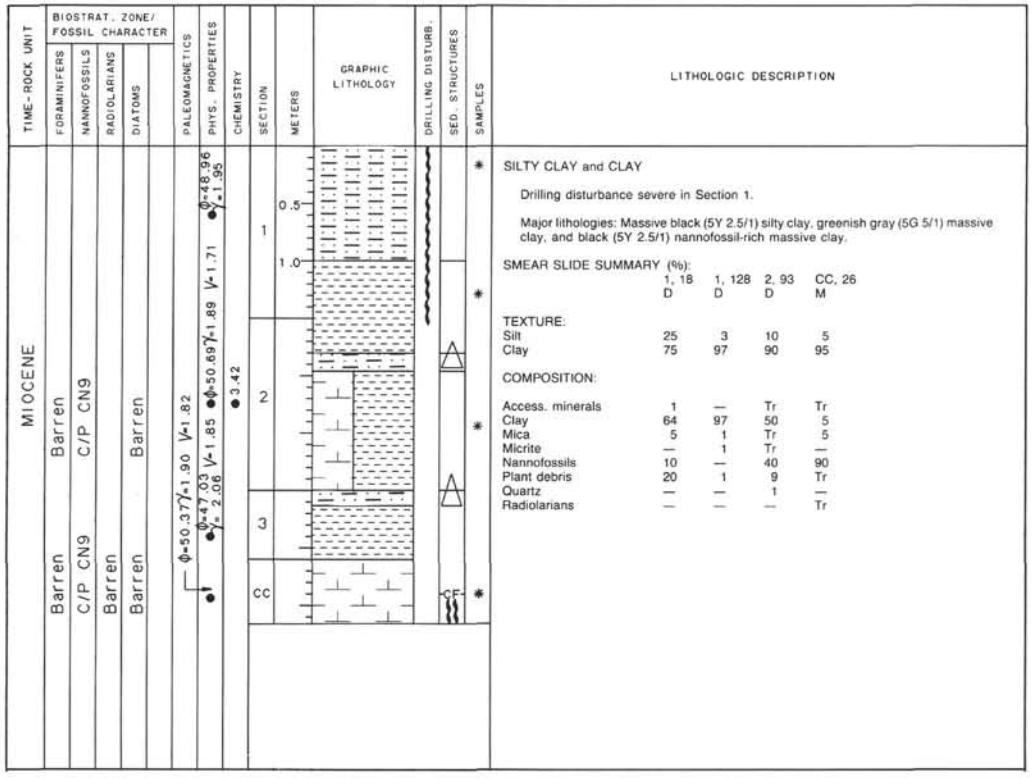
Minor lithology: Drilling breccia at the top of the section contains nannofossil chalk.

SMEAR SLIDE SUMMARY (%):

	1, 90 M	2, 29 D	2, 94 D	CC, 18 D
TEXTURE:				
Silt	5	60	5	40
Clay	95	40	95	60
COMPOSITION:				
Access. minerals	—	1	Tr	4
Clay	9	38	95	40
Mica	—	—	Tr	5
Micrite	1	1	3	1
Nannofossils	90	—	1	10
Plant debris	—	60	1	40
Quartz	—	—	Tr	—



SITE 717 HOLE C CORE 55X CORED INTERVAL 5217.7-5227.2 mbsl; 483.0-492.5 mbsf



LITHOLOGIC DESCRIPTION

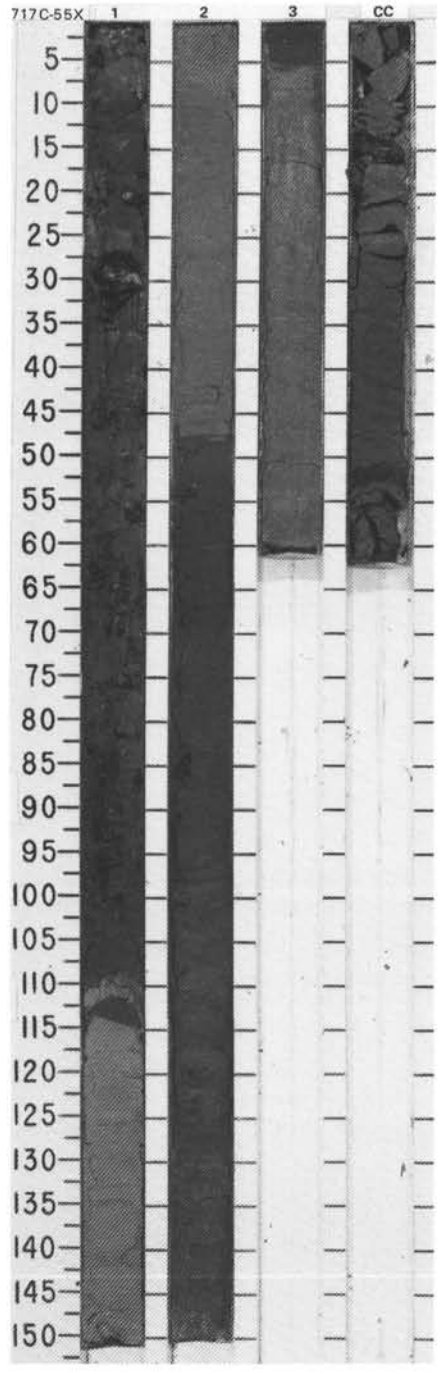
SILTY CLAY and CLAY

Drilling disturbance severe in Section 1.

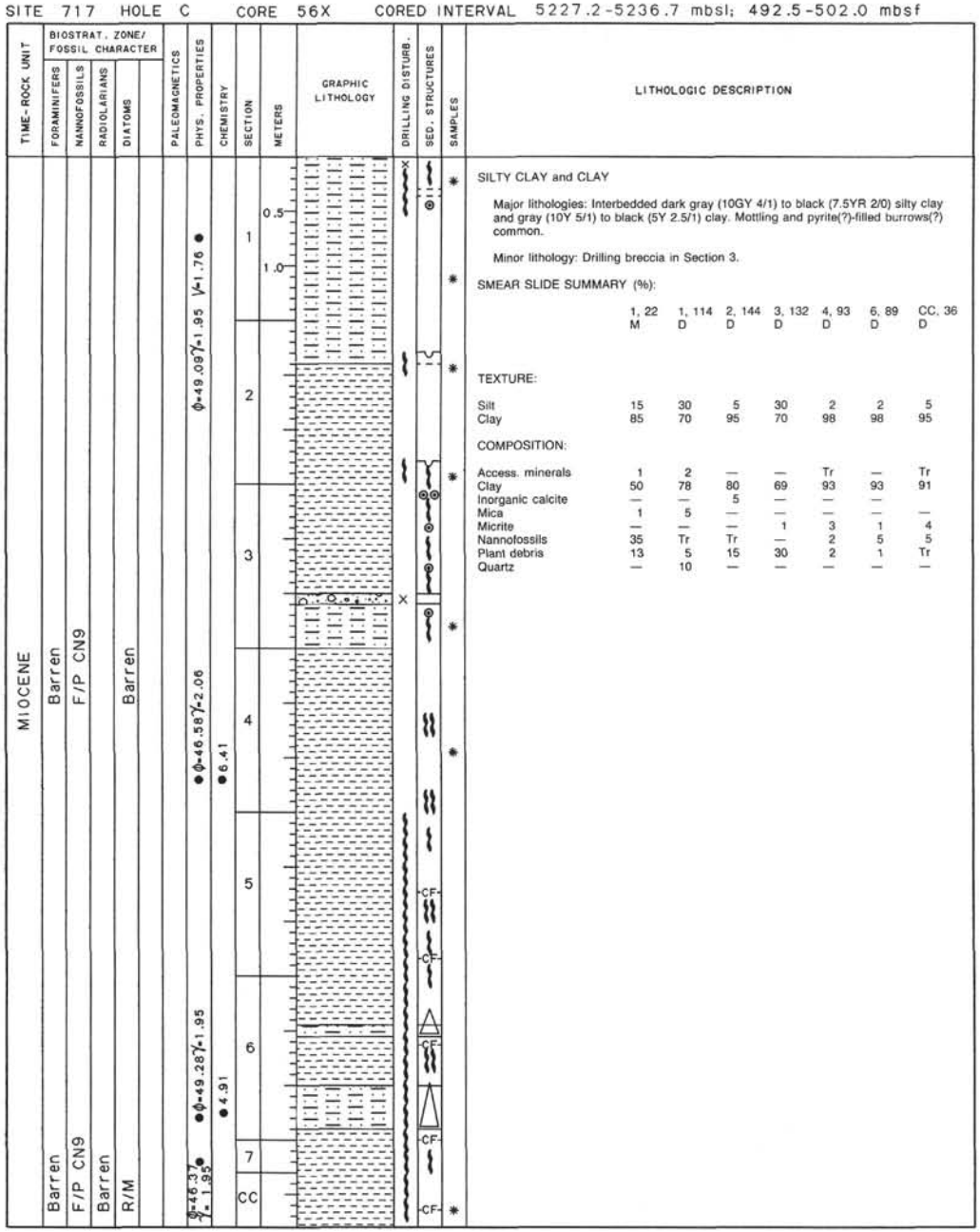
Major lithologies: Massive black (5Y 2.5/1) silty clay, greenish gray (5G 5/1) massive clay, and black (5Y 2.5/1) nannofossil-rich massive clay.

SMEAR SLIDE SUMMARY (%):

	1, 18 D	1, 128 D	2, 93 D	CC, 26 M
TEXTURE:				
Silt	25	3	10	5
Clay	75	97	90	95
COMPOSITION:				
Access. minerals	1	—	Tr	Tr
Clay	64	97	50	5
Mica	5	1	Tr	5
Micrite	—	1	Tr	—
Nannofossils	10	—	40	90
Plant debris	20	1	9	Tr
Quartz	—	—	1	—
Radiolarians	—	—	—	Tr



SITE 717 HOLE C CORE 56X CORED INTERVAL 5227.2-5236.7 mbsl; 492.5-502.0 mbsf



LITHOLOGIC DESCRIPTION

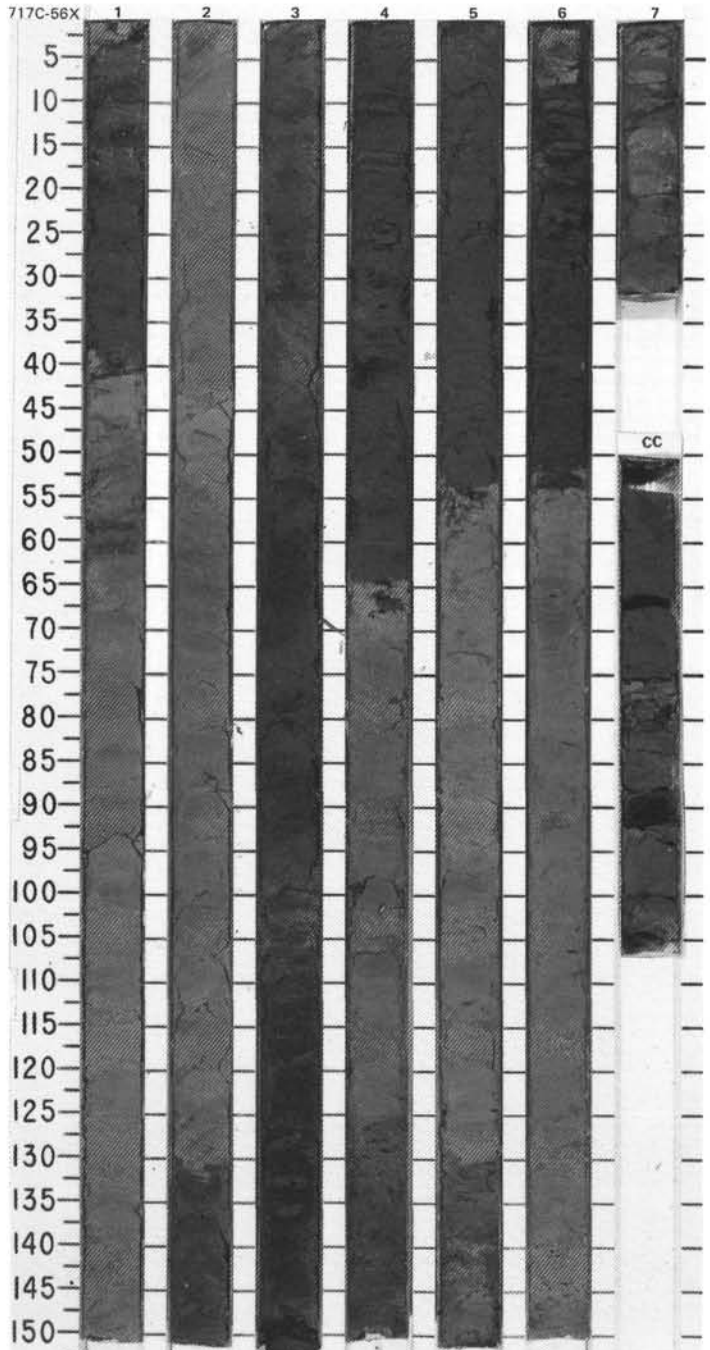
SILTY CLAY and CLAY

Major lithologies: Interbedded dark gray (10GY 4/1) to black (7.5YR 2/0) silty clay and gray (10Y 5/1) to black (5Y 2.5/1) clay. Mottling and pyrite(?)-filled burrows(?) common.

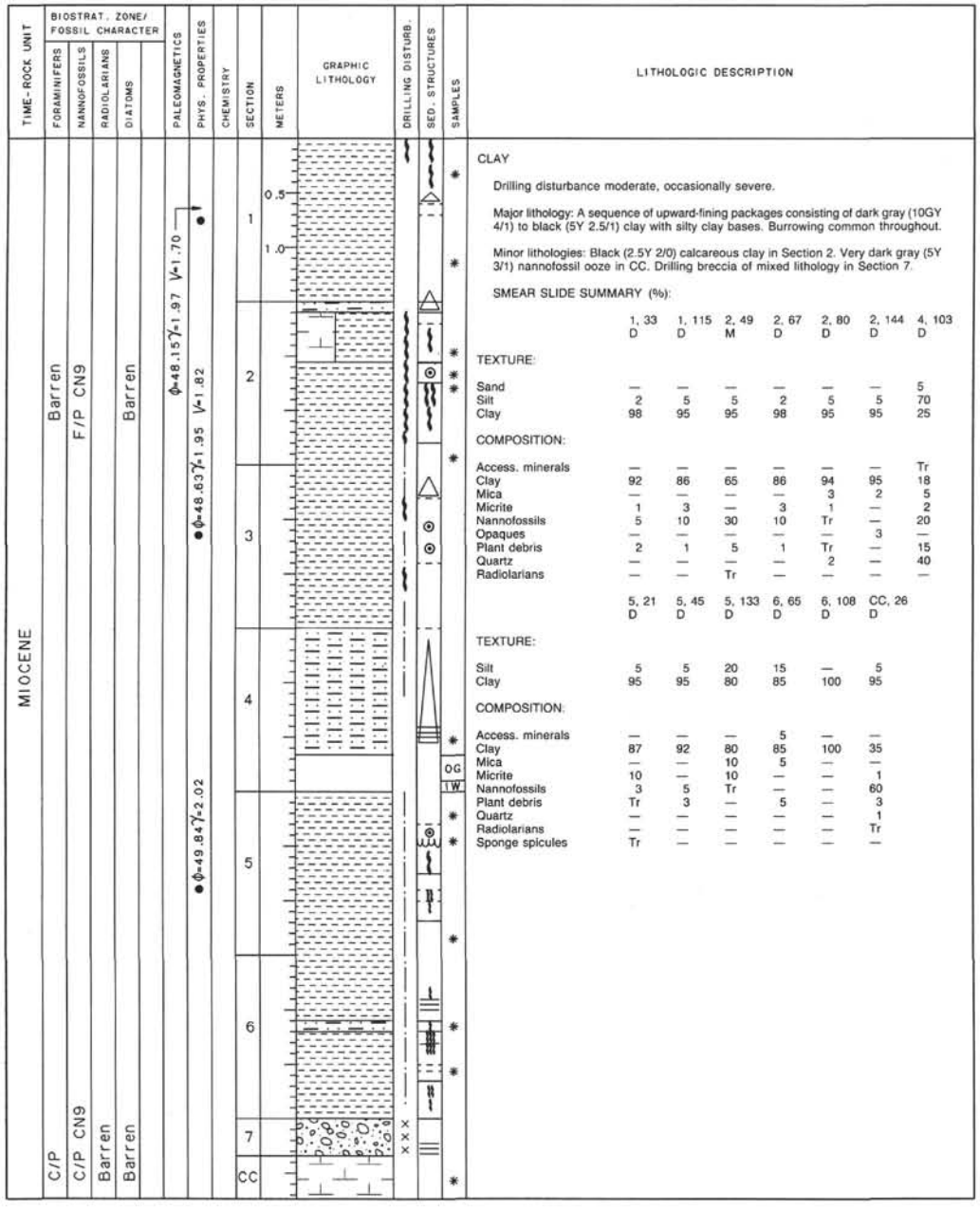
Minor lithology: Drilling breccia in Section 3.

SMEAR SLIDE SUMMARY (%):

	1, 22 M	1, 114 D	2, 144 D	3, 132 D	4, 93 D	6, 89 D	CC, 36 D
TEXTURE:							
Silt	15	30	5	30	2	2	5
Clay	85	70	95	70	98	98	95
COMPOSITION:							
Access. minerals	1	2	—	—	Tr	—	Tr
Clay	50	78	80	69	93	93	91
Inorganic calcite	—	—	5	—	—	—	
Mica	1	5	—	—	—	—	—
Micrite	—	—	—	1	3	1	4
Nannofossils	35	Tr	Tr	—	2	5	5
Plant debris	13	5	15	30	2	1	Tr
Quartz	—	10	—	—	—	—	—



SITE 717 HOLE C CORE 57X CORED INTERVAL 5236.7-5246.2 mbsl; 502.0-511.5 mbsf



LITHOLOGIC DESCRIPTION

CLAY

Drilling disturbance moderate, occasionally severe.

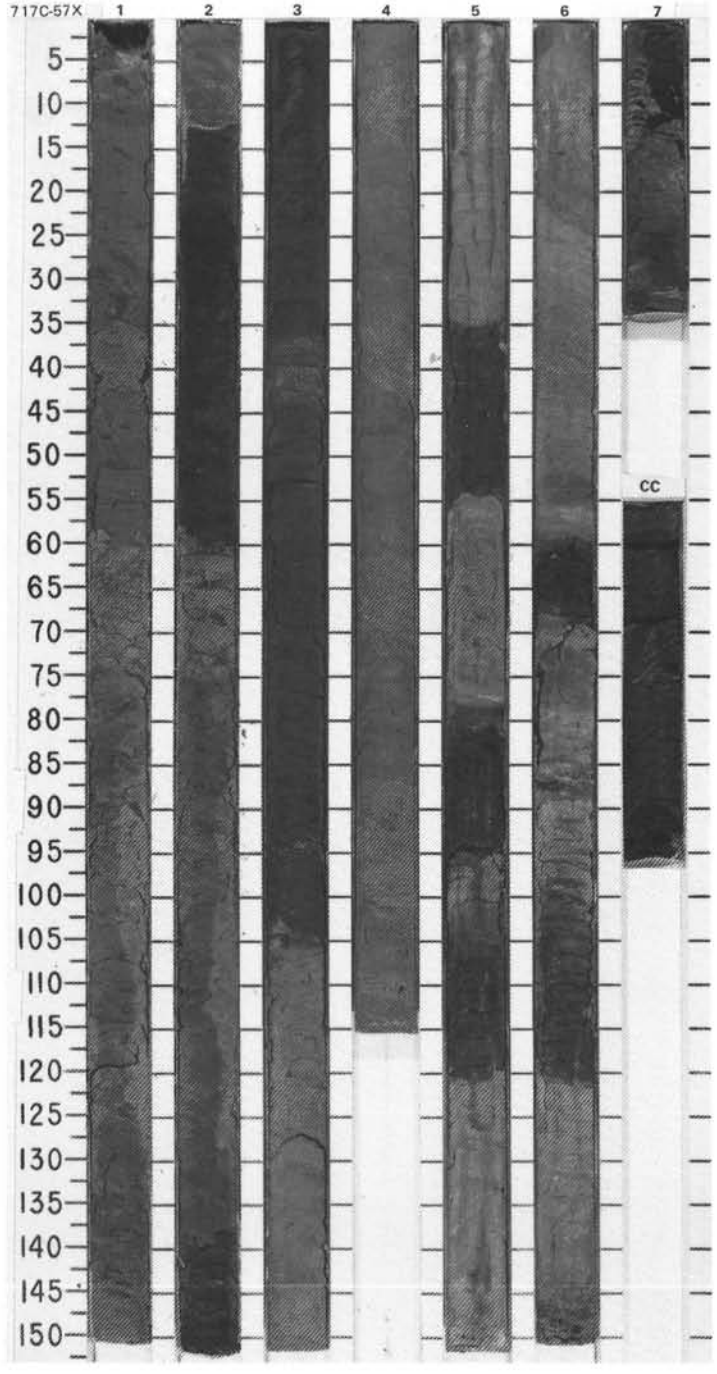
Major lithology: A sequence of upward-fining packages consisting of dark gray (10GY 4/1) to black (5Y 2.5/1) clay with silty clay bases. Burrowing common throughout.

Minor lithologies: Black (2.5Y 2/0) calcareous clay in Section 2. Very dark gray (5Y 3/1) nannofossil ooze in CC. Drilling breccia of mixed lithology in Section 7.

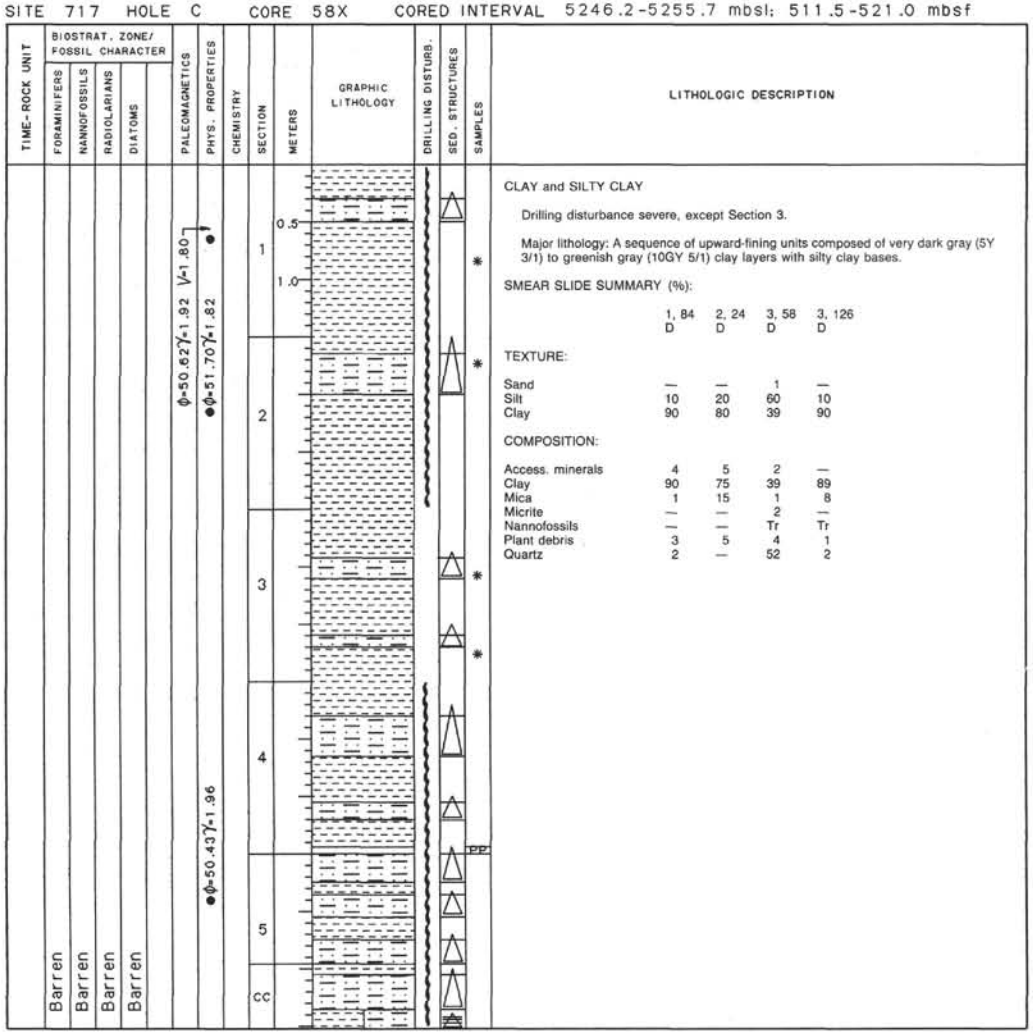
SMEAR SLIDE SUMMARY (%):

	1, 33 D	1, 115 D	2, 49 M	2, 67 D	2, 80 D	2, 144 D	4, 103 D
TEXTURE:							
Sand	—	—	—	—	—	—	5
Silt	2	5	5	2	5	5	70
Clay	98	95	95	98	95	95	25
COMPOSITION:							
Access. minerals	—	—	—	—	—	—	Tr
Clay	92	86	65	86	94	95	18
Mica	—	—	—	—	3	2	5
Micrite	1	3	—	3	1	—	2
Nannofossils	5	10	30	10	Tr	—	20
Opaques	—	—	—	—	—	3	—
Plant debris	2	1	5	1	Tr	—	15
Quartz	—	—	—	—	2	—	40
Radiolarians	—	—	Tr	—	—	—	—

	5, 21 D	5, 45 D	5, 133 D	6, 65 D	6, 108 D	CC, 26 D
TEXTURE:						
Silt	5	5	20	15	—	5
Clay	95	95	80	85	100	95
COMPOSITION:						
Access. minerals	—	—	—	5	—	—
Clay	87	92	80	85	100	35
Mica	—	—	10	5	—	—
Micrite	10	—	10	—	—	1
Nannofossils	3	5	Tr	—	—	60
Plant debris	Tr	3	—	5	—	3
Quartz	—	—	—	—	—	1
Radiolarians	—	—	—	—	—	Tr
Sponge spicules	Tr	—	—	—	—	—



SITE 717 HOLE C CORE 58X CORED INTERVAL 5246.2-5255.7 mbsl; 511.5-521.0 mbsf



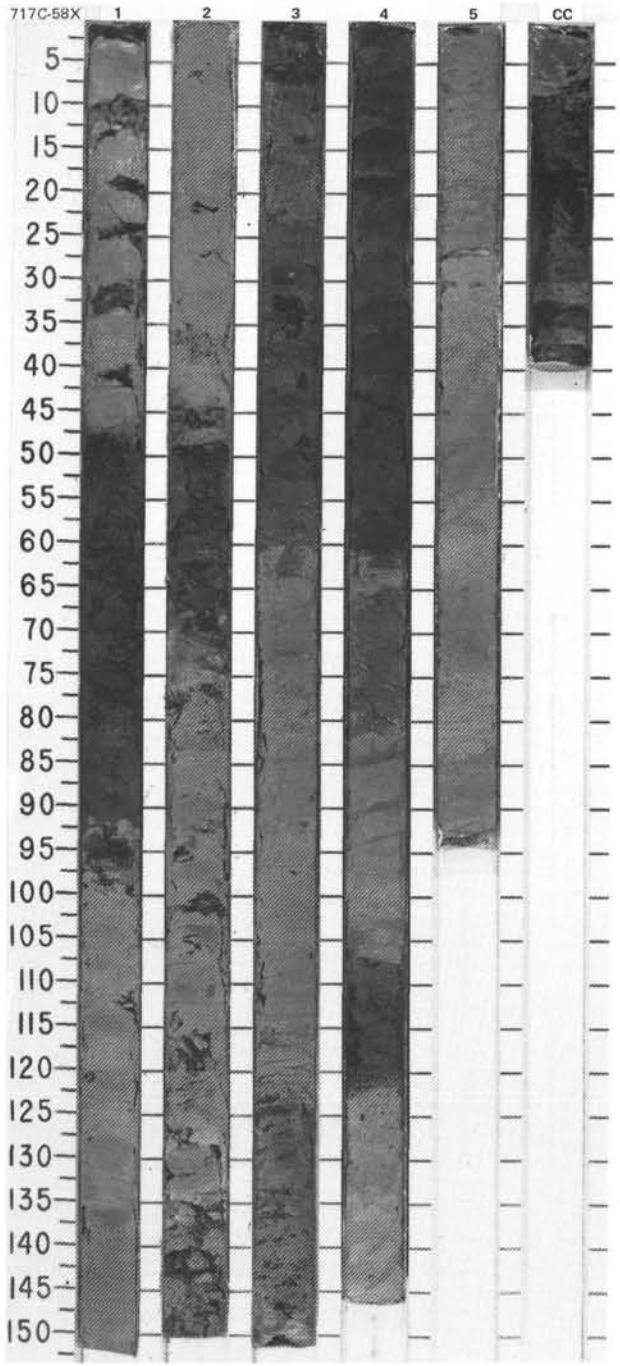
CLAY and SILTY CLAY

Drilling disturbance severe, except Section 3.

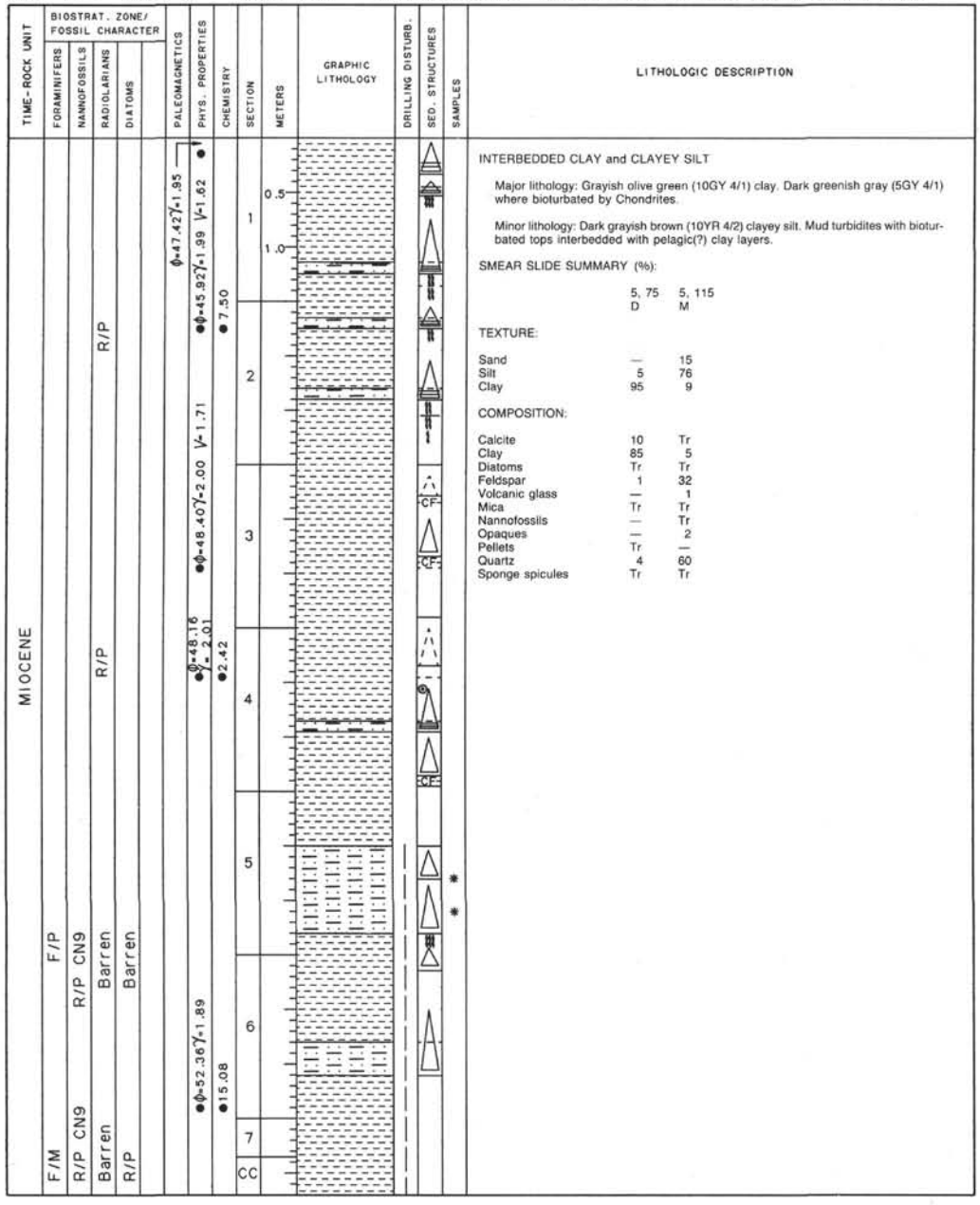
Major lithology: A sequence of upward-fining units composed of very dark gray (5Y 3/1) to greenish gray (10GY 5/1) clay layers with silty clay bases.

SMEAR SLIDE SUMMARY (%):

	1, 84 D	2, 24 D	3, 58 D	3, 126 D
TEXTURE:				
Sand	—	—	1	—
Silt	10	20	60	10
Clay	90	80	39	90
COMPOSITION:				
Access. minerals	4	5	2	—
Clay	90	75	39	89
Mica	1	15	1	8
Micrite	—	—	2	—
Nannofossils	—	—	Tr	Tr
Plant debris	3	5	4	1
Quartz	2	—	52	2



SITE 717 HOLE C CORE 59X CORED INTERVAL 5255.7-5265.2 mbsl; 521.0-530.5 mbsf



LITHOLOGIC DESCRIPTION

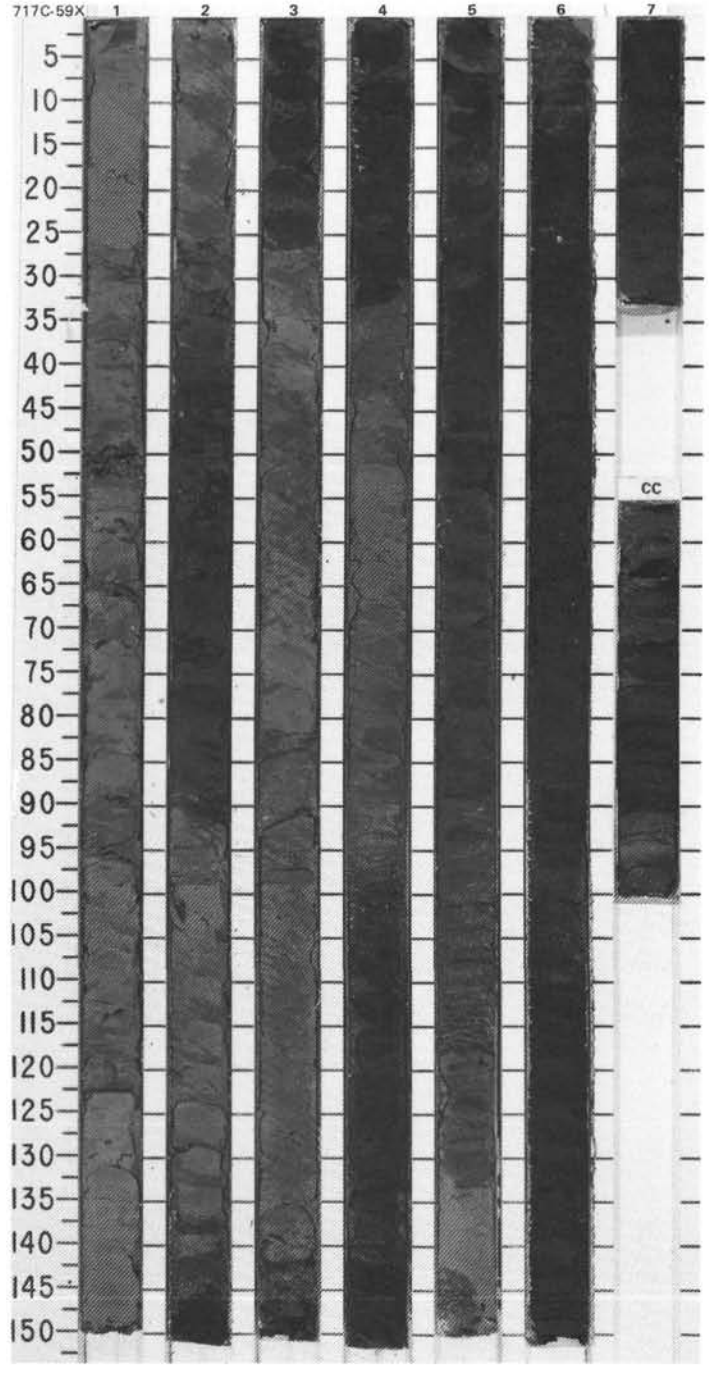
INTERBEDDED CLAY and CLAYEY SILT

Major lithology: Grayish olive green (10GY 4/1) clay. Dark greenish gray (5GY 4/1) where bioturbated by Chondrites.

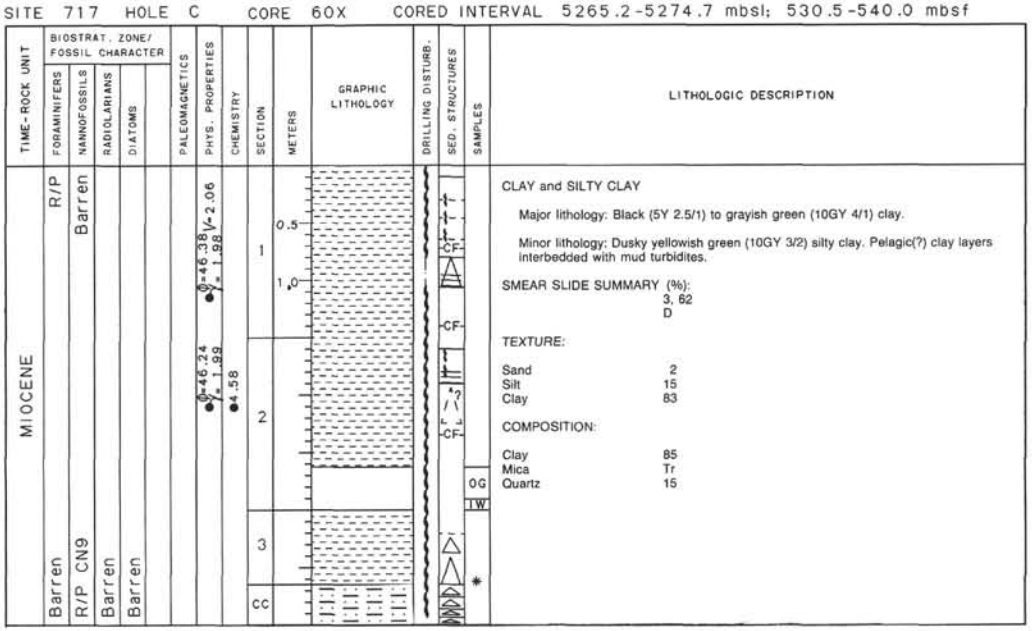
Minor lithology: Dark grayish brown (10YR 4/2) clayey silt. Mud turbidites with bioturbated tops interbedded with pelagic(?) clay layers.

SMEAR SLIDE SUMMARY (%):

	5, 75 D	5, 115 M
TEXTURE:		
Sand	—	15
Silt	5	76
Clay	95	9
COMPOSITION:		
Calcite	10	Tr
Clay	85	5
Diatoms	Tr	Tr
Feldspar	1	32
Volcanic glass	—	1
Mica	Tr	Tr
Nannofossils	—	Tr
Opaques	—	2
Pellets	Tr	—
Quartz	4	60
Sponge spicules	Tr	Tr



SITE 717 HOLE C CORE 60X CORED INTERVAL 5265.2-5274.7 mbsl; 530.5-540.0 mbsf



LITHOLOGIC DESCRIPTION

CLAY and SILTY CLAY

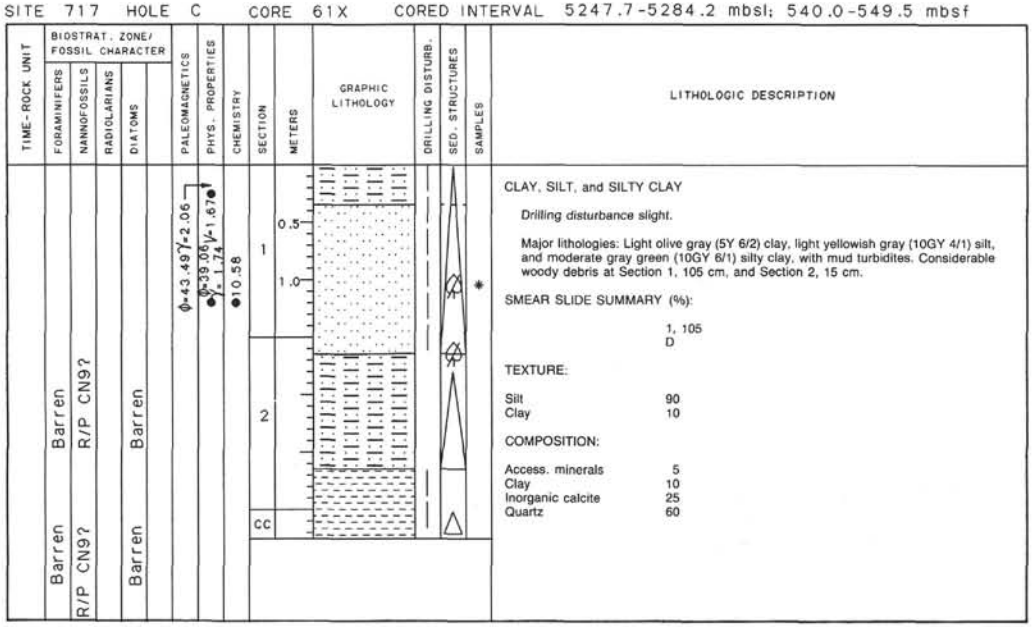
Major lithology: Black (5Y 2.5/1) to grayish green (10GY 4/1) clay.

Minor lithology: Dusky yellowish green (10GY 3/2) silty clay. Pelagic(?) clay layers interbedded with mud turbidites.

SMEAR SLIDE SUMMARY (%):

	3, 62
	D
TEXTURE:	
Sand	2
Silt	15
Clay	83
COMPOSITION:	
Clay	85
Mica	Tr
Quartz	15

SITE 717 HOLE C CORE 61X CORED INTERVAL 5247.7-5284.2 mbsl; 540.0-549.5 mbsf



LITHOLOGIC DESCRIPTION

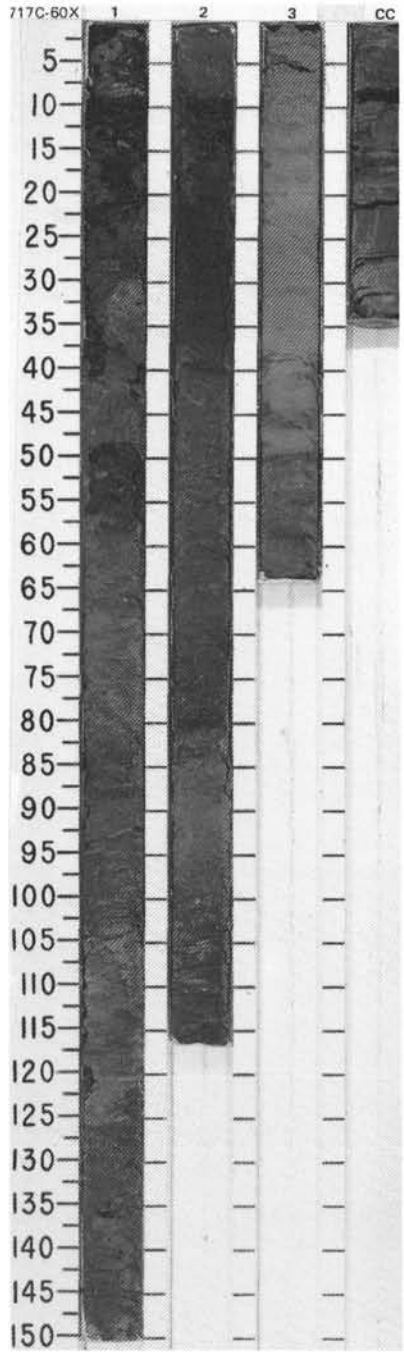
CLAY, SILT, and SILTY CLAY

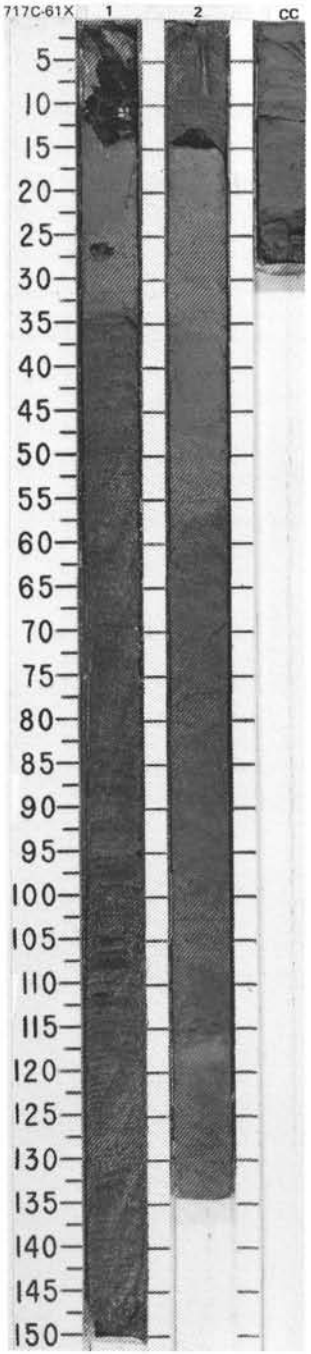
Drilling disturbance slight.

Major lithologies: Light olive gray (5Y 6/2) clay, light yellowish gray (10GY 4/1) silt, and moderate gray green (10GY 6/1) silty clay, with mud turbidites. Considerable woody debris at Section 1, 105 cm, and Section 2, 15 cm.

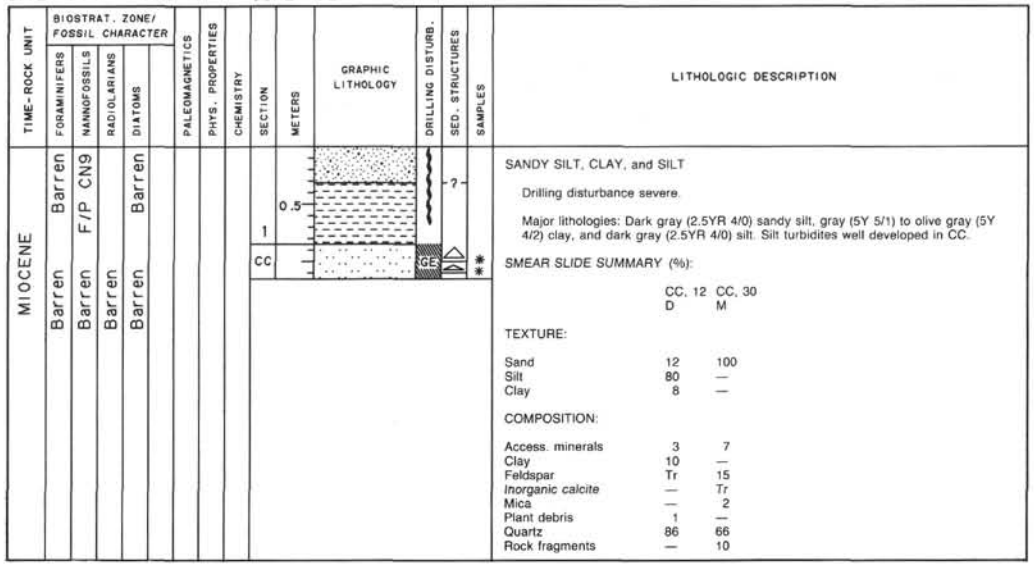
SMEAR SLIDE SUMMARY (%):

	1, 105
	D
TEXTURE:	
Silt	90
Clay	10
COMPOSITION:	
Access. minerals	5
Clay	10
Inorganic calcite	25
Quartz	60





SITE 717 HOLE C CORE 62X CORED INTERVAL 5284.2-5293.7 mbsl; 549.5-559.0 mbsf



SANDY SILT, CLAY, and SILT

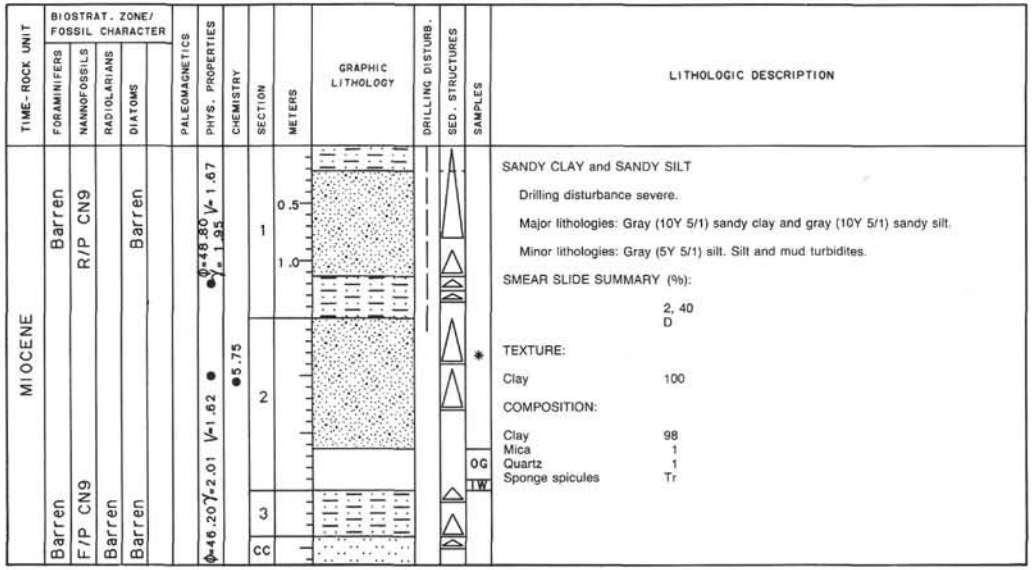
Drilling disturbance severe.

Major lithologies: Dark gray (2.5YR 4/0) sandy silt, gray (5Y 5/1) to olive gray (5Y 4/2) clay, and dark gray (2.5YR 4/0) silt. Silt turbidites well developed in CC.

SMEAR SLIDE SUMMARY (%):

	CC, 12 D	CC, 30 M
TEXTURE:		
Sand	12	100
Silt	80	—
Clay	8	—
COMPOSITION:		
Access. minerals	3	7
Clay	10	—
Feldspar	Tr	15
Inorganic calcite	—	*Tr*
Mica	—	2
Plant debris	1	—
Quartz	86	66
Rock fragments	—	10

SITE 717 HOLE C CORE 63X CORED INTERVAL 5293.7-5303.2 mbsl; 559.0-568.5 mbsf



SANDY CLAY and SANDY SILT

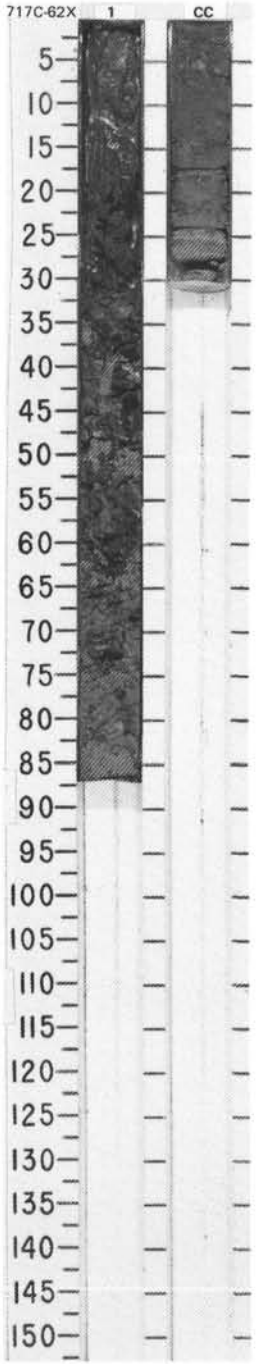
Drilling disturbance severe.

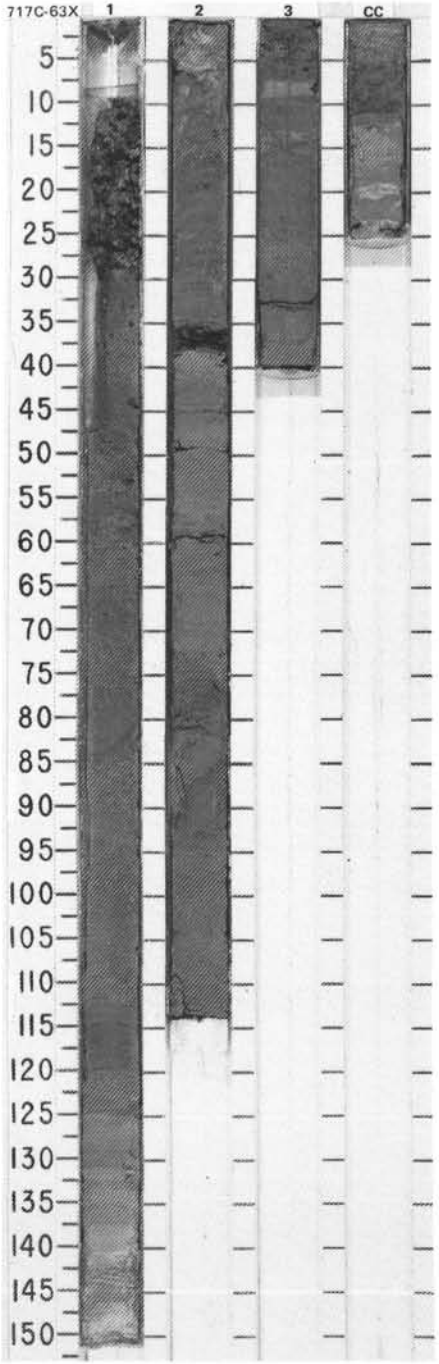
Major lithologies: Gray (10Y 5/1) sandy clay and gray (10Y 5/1) sandy silt.

Minor lithologies: Gray (5Y 5/1) silt. Silt and mud turbidites.

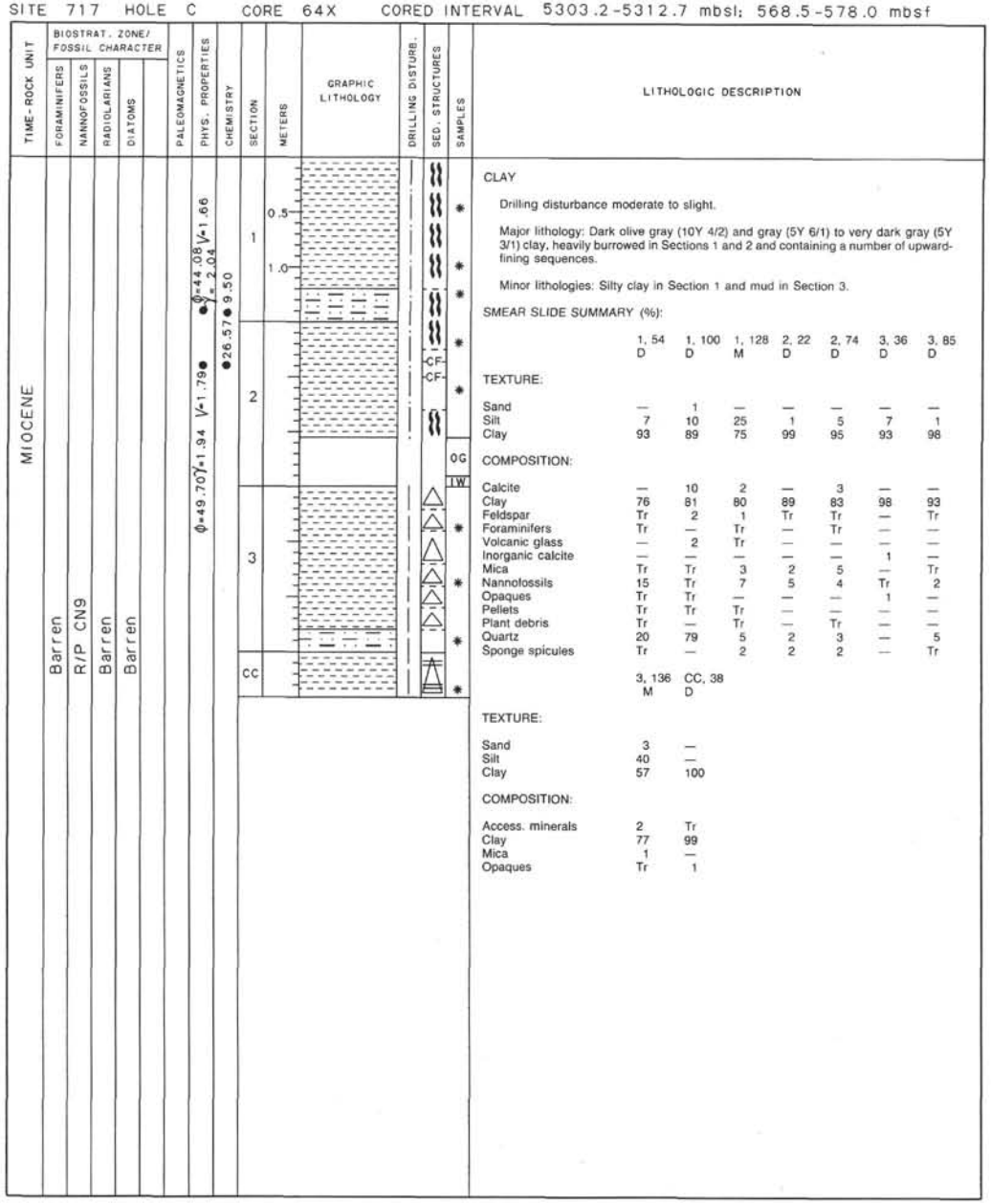
SMEAR SLIDE SUMMARY (%):

	2, 40 D
TEXTURE:	
Clay	100
COMPOSITION:	
Clay	98
Mica	1
Quartz	1
Sponge spicules	Tr





SITE 717 HOLE C CORE 64X CORED INTERVAL 5303.2-5312.7 mbsl; 568.5-578.0 mbsf



LITHOLOGIC DESCRIPTION

CLAY

Drilling disturbance moderate to slight.

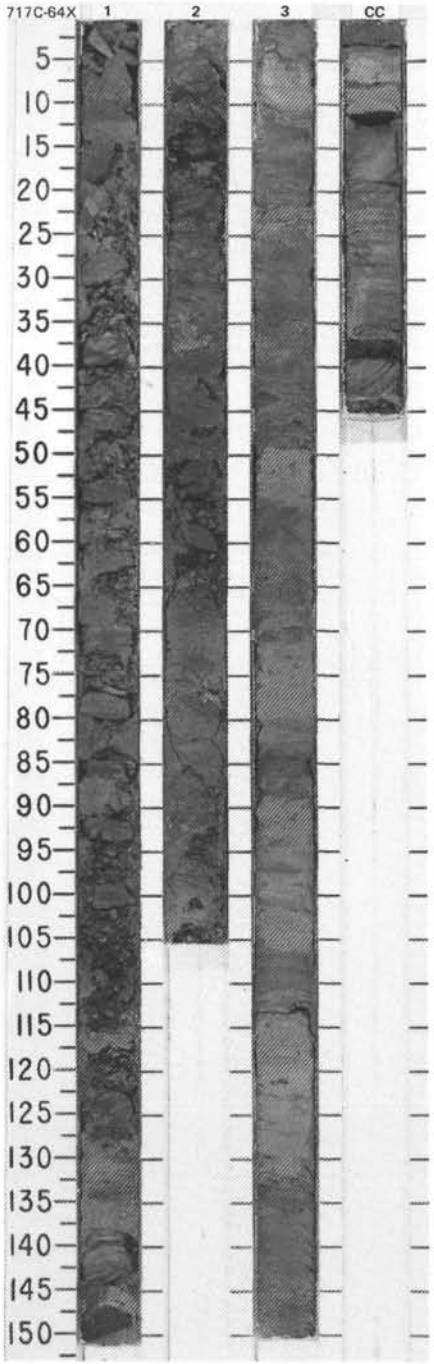
Major lithology: Dark olive gray (10Y 4/2) and gray (5Y 6/1) to very dark gray (5Y 3/1) clay, heavily burrowed in Sections 1 and 2 and containing a number of upward-fining sequences.

Minor lithologies: Silty clay in Section 1 and mud in Section 3.

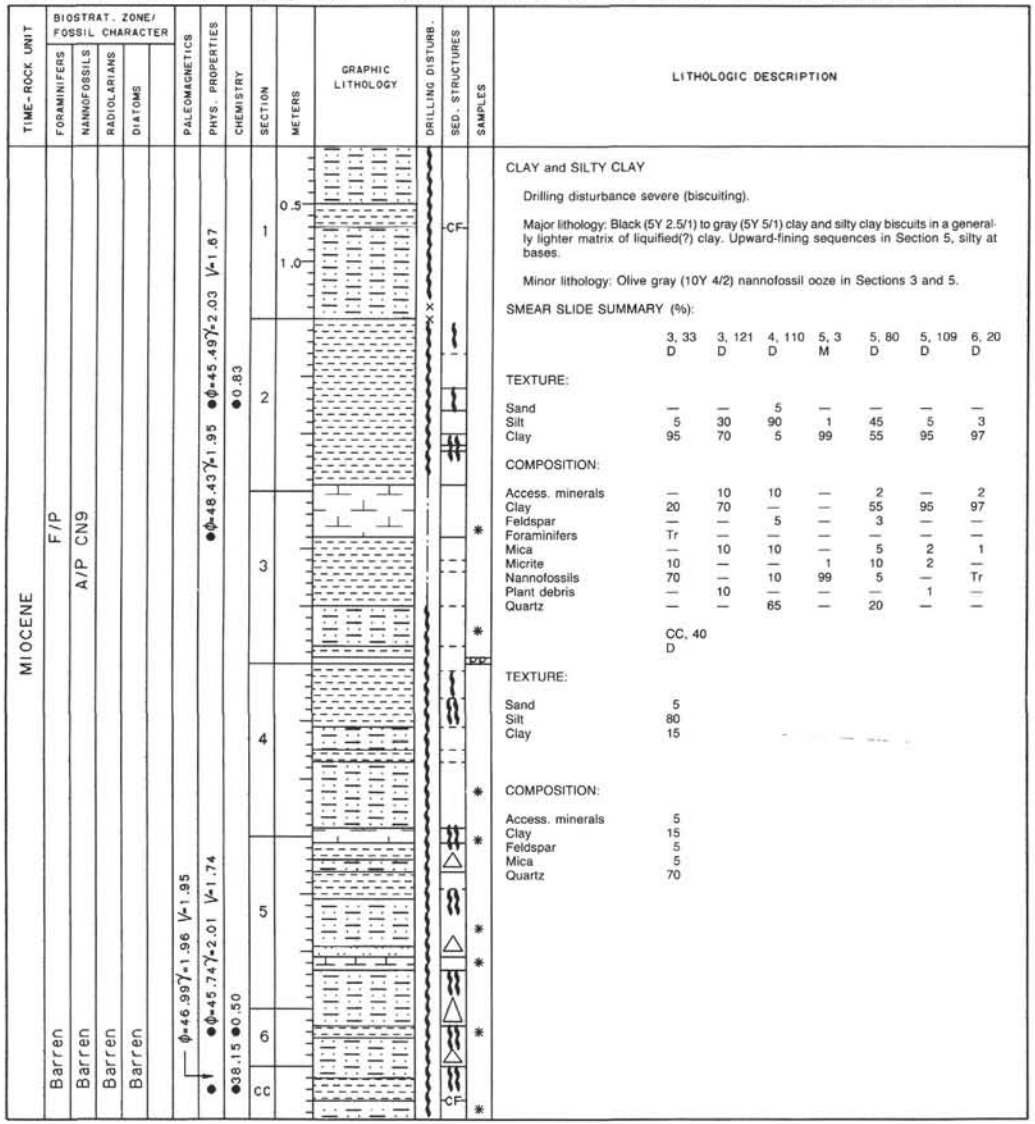
SMEAR SLIDE SUMMARY (%):

	1, 54 D	1, 100 D	1, 128 M	2, 22 D	2, 74 D	3, 36 D	3, 85 D
TEXTURE:							
Sand	—	1	—	—	—	—	—
Silt	7	10	25	1	5	7	1
Clay	93	89	75	99	95	93	98
COMPOSITION:							
Calcite	—	10	2	—	3	—	—
Clay	76	81	80	89	83	98	93
Feldspar	Tr	2	1	Tr	Tr	—	Tr
Foraminifers	Tr	—	Tr	—	Tr	—	—
Volcanic glass	—	2	Tr	—	—	—	—
Inorganic calcite	—	—	—	—	—	1	—
Mica	Tr	Tr	3	2	5	—	Tr
Nannofossils	15	Tr	7	5	4	Tr	2
Opaques	Tr	Tr	—	—	—	1	—
Pellets	Tr	Tr	Tr	—	—	—	—
Plant debris	Tr	—	Tr	—	Tr	—	—
Quartz	20	79	5	2	3	—	5
Sponge spicules	Tr	—	2	2	2	—	Tr

	3, 136 M	CC, 38 D
TEXTURE:		
Sand	3	—
Silt	40	—
Clay	57	100
COMPOSITION:		
Access. minerals	2	Tr
Clay	77	99
Mica	1	—
Opaques	Tr	1



SITE 717 HOLE C CORE 65X CORED INTERVAL 5312.7-5322.2 mbsl; 578.0-587.5 mbsf



LITHOLOGIC DESCRIPTION

CLAY and SILTY CLAY

Drilling disturbance severe (biscuiting).

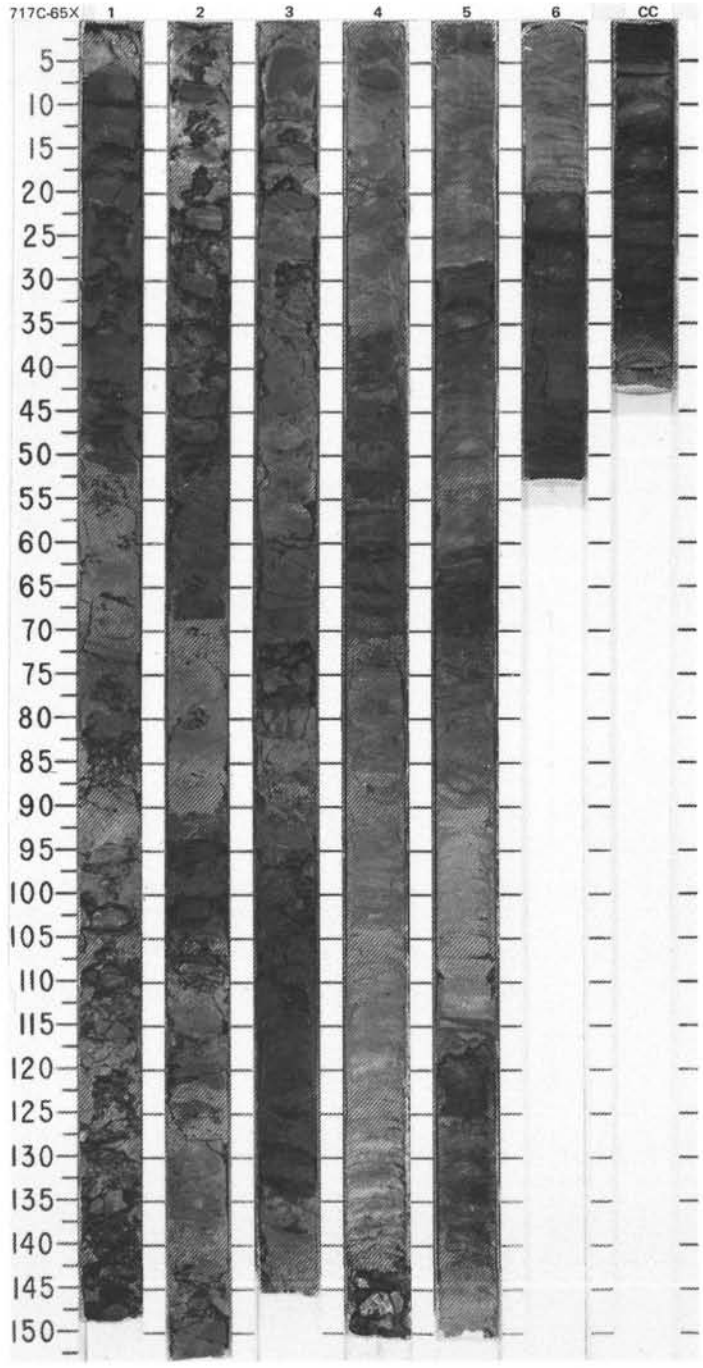
Major lithology: Black (5Y 2.5/1) to gray (5Y 5/1) clay and silty clay biscuits in a generally lighter matrix of liquified(?) clay. Upward-fining sequences in Section 5, silty at bases.

Minor lithology: Olive gray (10Y 4/2) nannofossil ooze in Sections 3 and 5.

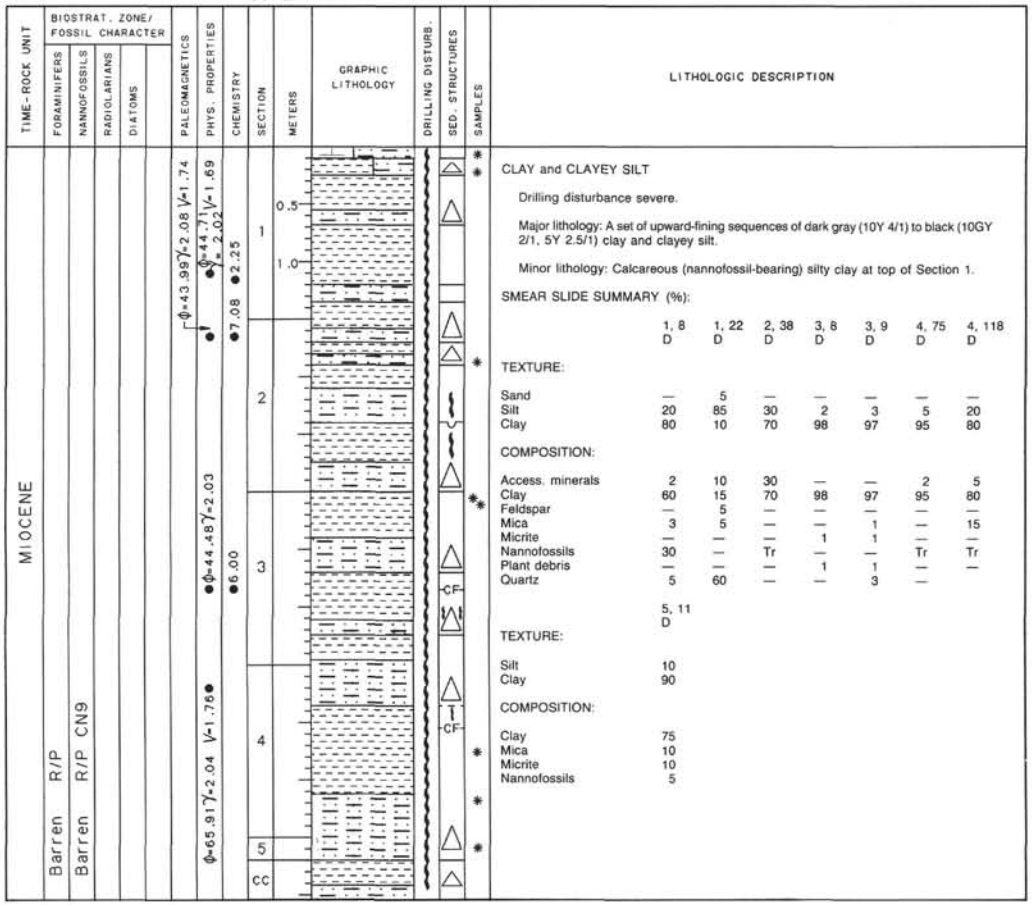
SMEAR SLIDE SUMMARY (%):

	3, 33 D	3, 121 D	4, 110 D	5, 3 M	5, 80 D	5, 109 D	6, 20 D
TEXTURE:							
Sand	—	—	5	—	—	—	—
Silt	5	30	90	1	45	5	3
Clay	95	70	5	99	55	95	97
COMPOSITION:							
Access. minerals	—	10	10	—	2	—	2
Clay	20	70	—	—	55	95	97
Feldspar	—	—	5	—	3	—	—
Foraminifers	Tr	—	—	—	—	—	—
Mica	—	10	10	—	5	2	1
Micrite	10	—	—	1	10	2	—
Nannofossils	70	—	10	99	5	—	Tr
Plant debris	—	10	—	—	—	1	—
Quartz	—	—	65	—	20	—	—

	CC, 40 D
TEXTURE:	
Sand	5
Silt	80
Clay	15
COMPOSITION:	
Access. minerals	5
Clay	15
Feldspar	5
Mica	5
Quartz	70



SITE 717 HOLE C CORE 66X CORED INTERVAL 5322.2-5331.7 mbsl; 587.5-597.0 mbsf



LITHOLOGIC DESCRIPTION

CLAY and CLAYEY SILT

Drilling disturbance severe.

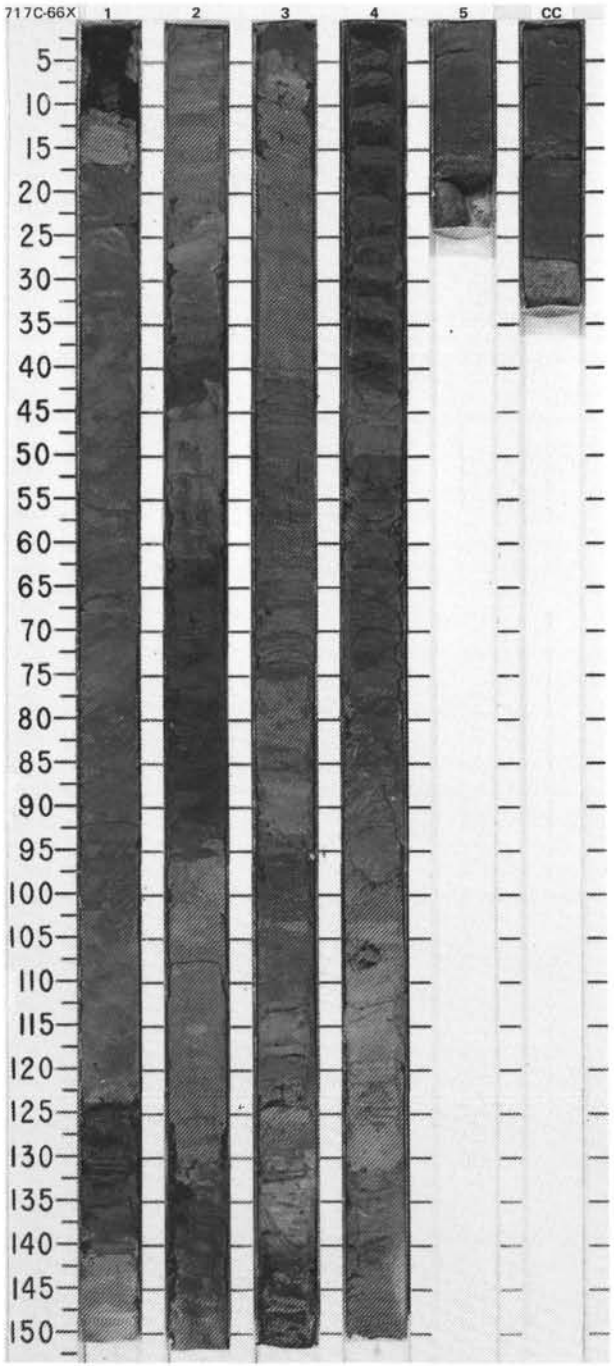
Major lithology: A set of upward-fining sequences of dark gray (10Y 4/1) to black (10GY 2/1, 5Y 2.5/1) clay and clayey silt.

Minor lithology: Calcareous (nannofossil-bearing) silty clay at top of Section 1.

SMEAR SLIDE SUMMARY (%):

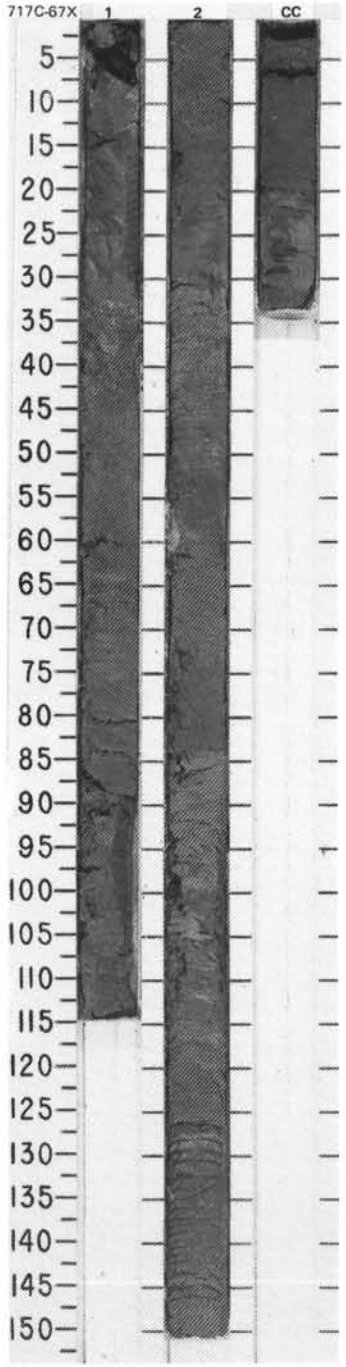
	1, 8 D	1, 22 D	2, 38 D	3, 8 D	3, 9 D	4, 75 D	4, 118 D
TEXTURE:							
Sand	—	5	—	—	—	—	—
Silt	20	85	30	2	3	5	20
Clay	80	10	70	98	97	95	80
COMPOSITION:							
Access. minerals	2	10	30	—	—	2	5
Clay	60	15	70	98	97	95	80
Feldspar	—	5	—	—	—	—	—
Mica	3	5	—	—	1	—	15
Micrite	—	—	—	1	1	—	—
Nannofossils	30	—	Tr	—	—	Tr	Tr
Plant debris	—	—	—	1	1	—	—
Quartz	5	60	—	—	3	—	

	5, 11 D
TEXTURE:	
Silt	10
Clay	90
COMPOSITION:	
Clay	75
Mica	10
Micrite	10
Nannofossils	5

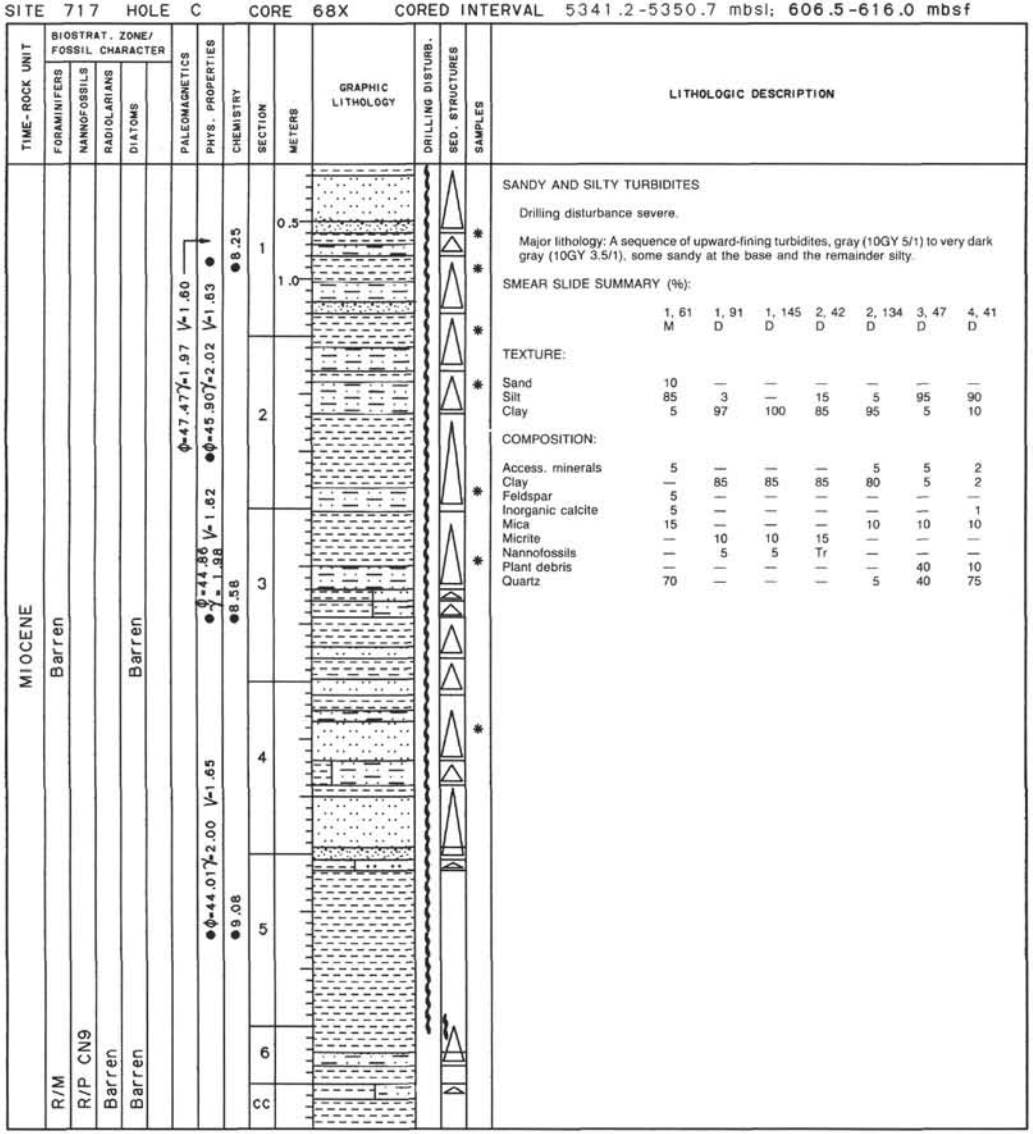


SITE 717 HOLE C CORE 67X CORED INTERVAL 5331.7-5341.2 mbsl; 597.0-606.5 mbsf

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
	R/M	Barren		Barren				1	0.5, 1.0				OG, TW	SANDY SILT-CLAY TURBIDITES Drilling disturbance severe. Major lithology: A series of upward-fining turbidites, sandy silt at the base and clay on top. Dark gray (10GY 4/1) throughout.
	Barren	Barren	Barren	Barren		●V=1.65	●8.50	2						
								CC						



SITE 717 HOLE C CORE 68X CORED INTERVAL 5341.2-5350.7 mbsl; 606.5-616.0 mbsf



LITHOLOGIC DESCRIPTION

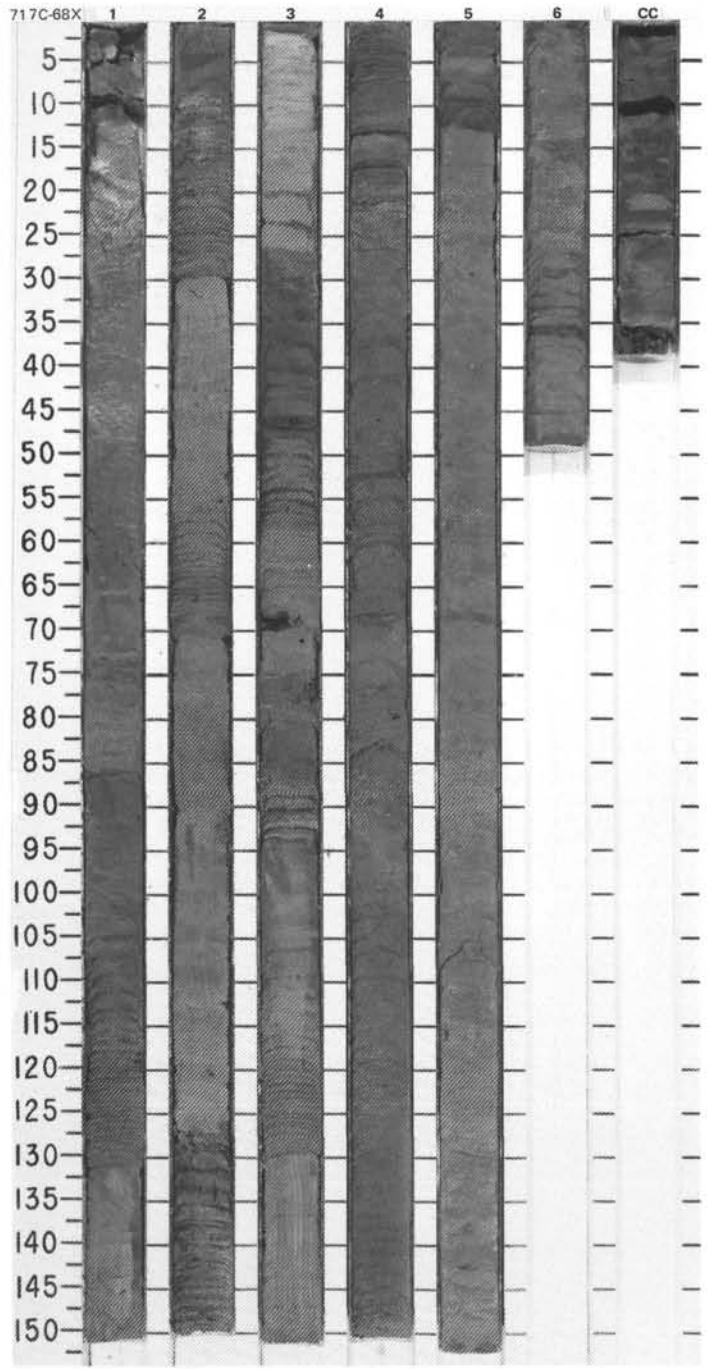
SANDY AND SILTY TURBIDITES

Drilling disturbance severe.

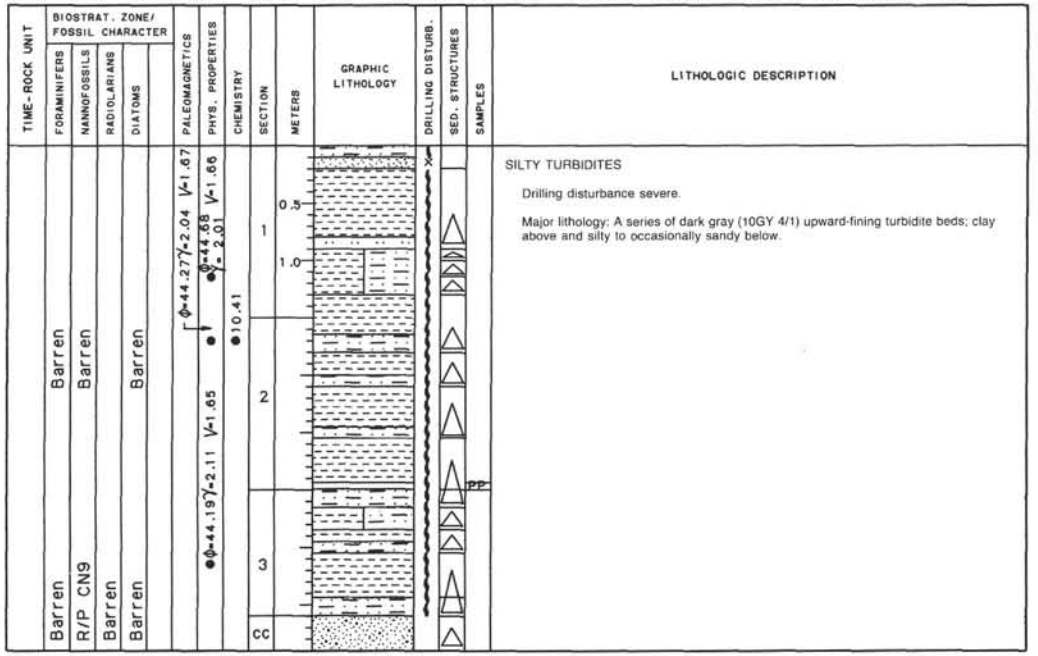
Major lithology: A sequence of upward-fining turbidites, gray (10GY 5/1) to very dark gray (10GY 3.5/1), some sandy at the base and the remainder silty.

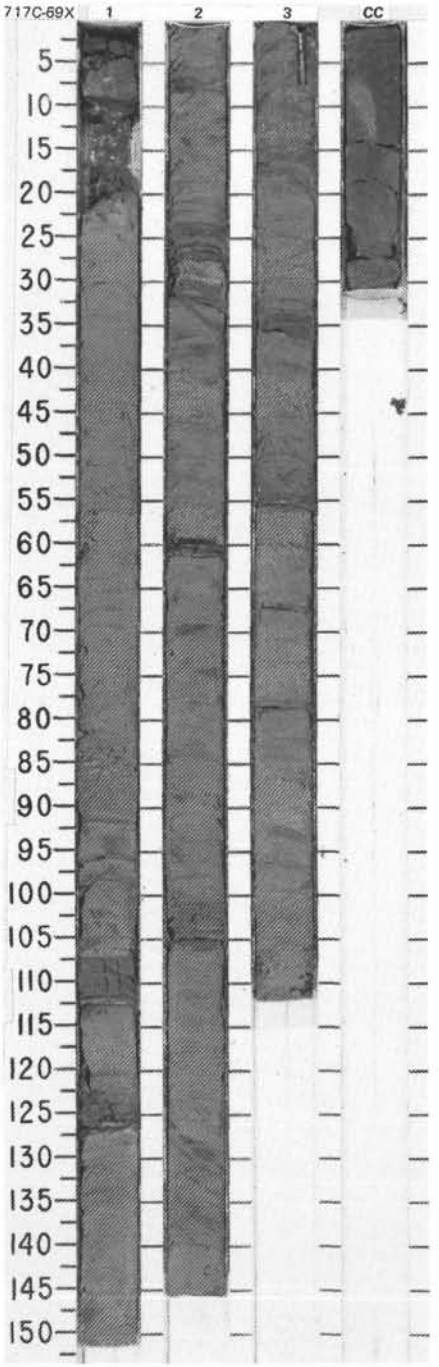
SMEAR SLIDE SUMMARY (%):

	1, 61 M	1, 91 D	1, 145 D	2, 42 D	2, 134 D	3, 47 D	4, 41 D
TEXTURE:							
Sand	10	—	—	—	—	—	—
Silt	85	3	—	15	5	95	90
Clay	5	97	100	85	95	5	10
COMPOSITION:							
Access. minerals	5	—	—	—	5	5	2
Clay	—	85	85	85	80	5	2
Feldspar	5	—	—	—	—	—	—
Inorganic calcite	5	—	—	—	—	—	1
Mica	15	—	—	—	10	10	10
Micrite	—	10	10	15	—	—	—
Nannofossils	—	5	5	Tr	—	—	—
Plant debris	—	—	—	—	—	40	10
Quartz	70	—	—	—	5	40	75

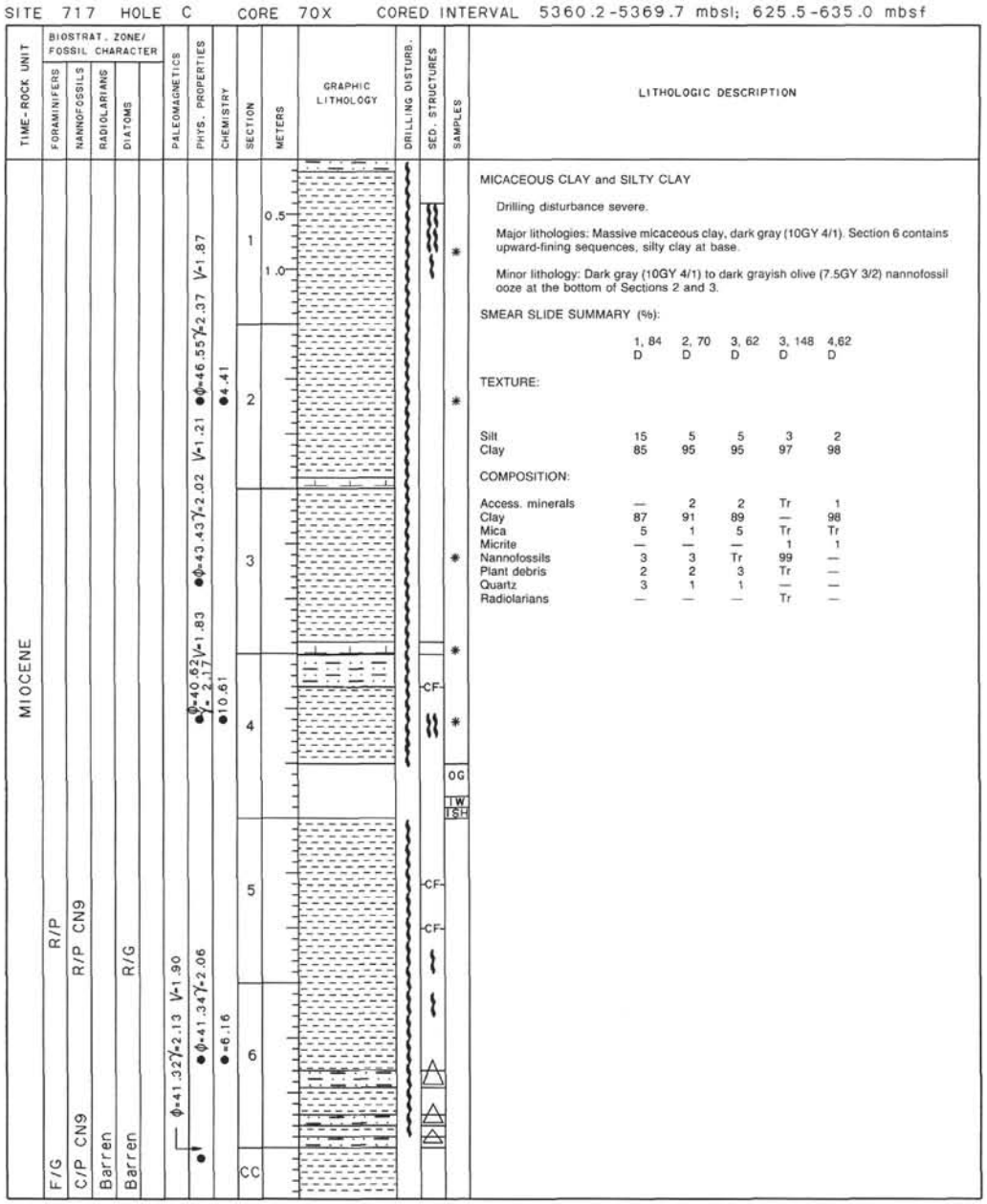


SITE 717 HOLE C CORE 69X CORED INTERVAL 5350.7-5360.2 mbsl; 616.0-625.5 mbsf





SITE 717 HOLE C CORE 70X CORED INTERVAL 5360.2-5369.7 mbsl; 625.5-635.0 mbsf



LITHOLOGIC DESCRIPTION

MICACEOUS CLAY and SILTY CLAY

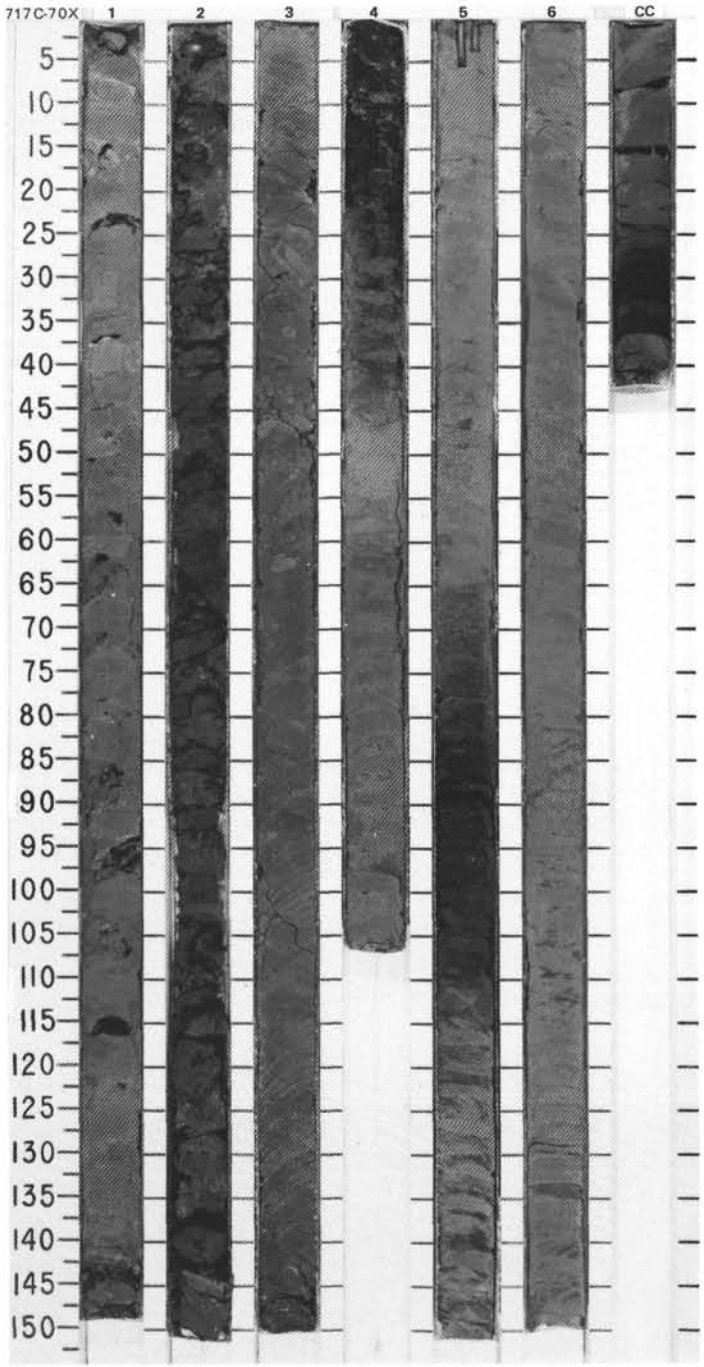
Drilling disturbance severe.

Major lithologies: Massive micaceous clay, dark gray (10GY 4/1). Section 6 contains upward-fining sequences, silty clay at base.

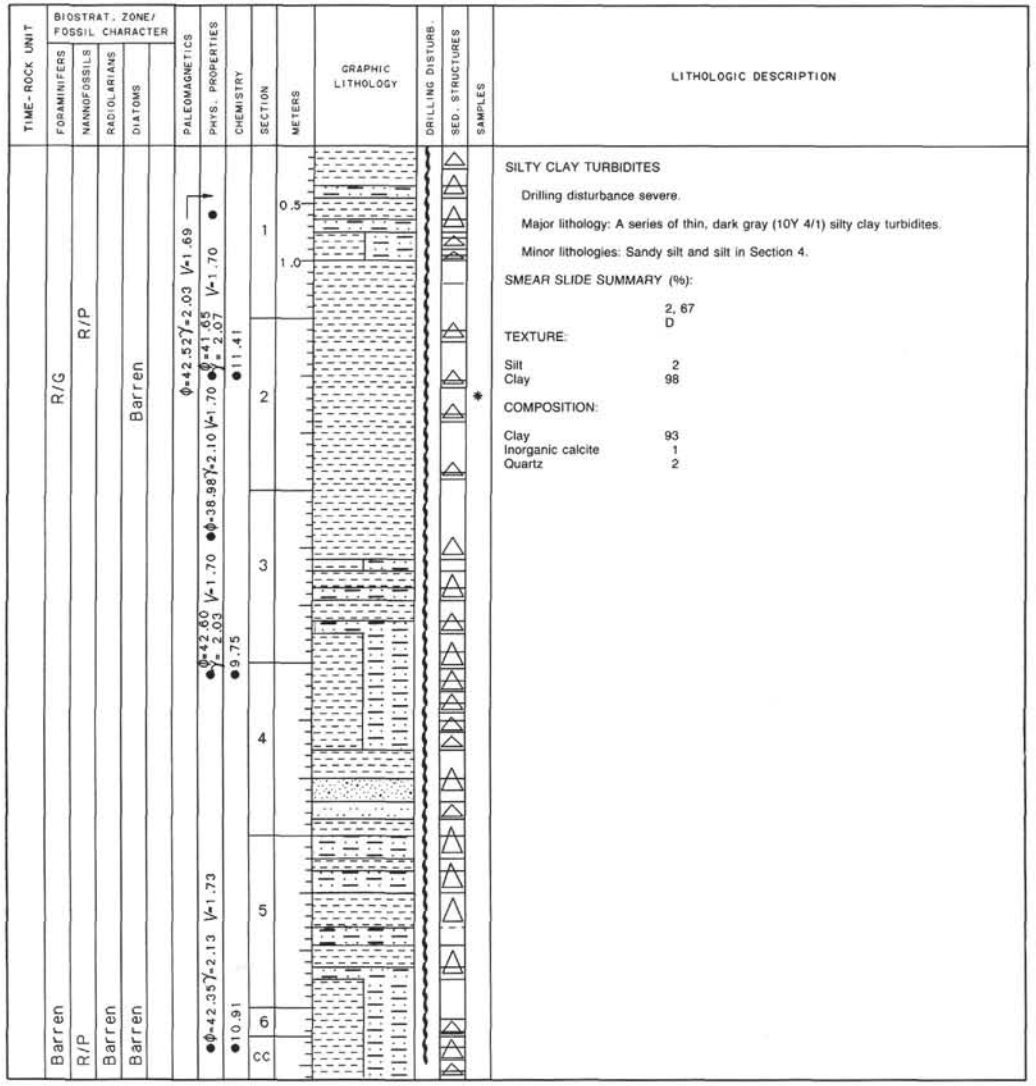
Minor lithology: Dark gray (10GY 4/1) to dark grayish olive (7.5GY 3/2) nannofossil ooze at the bottom of Sections 2 and 3.

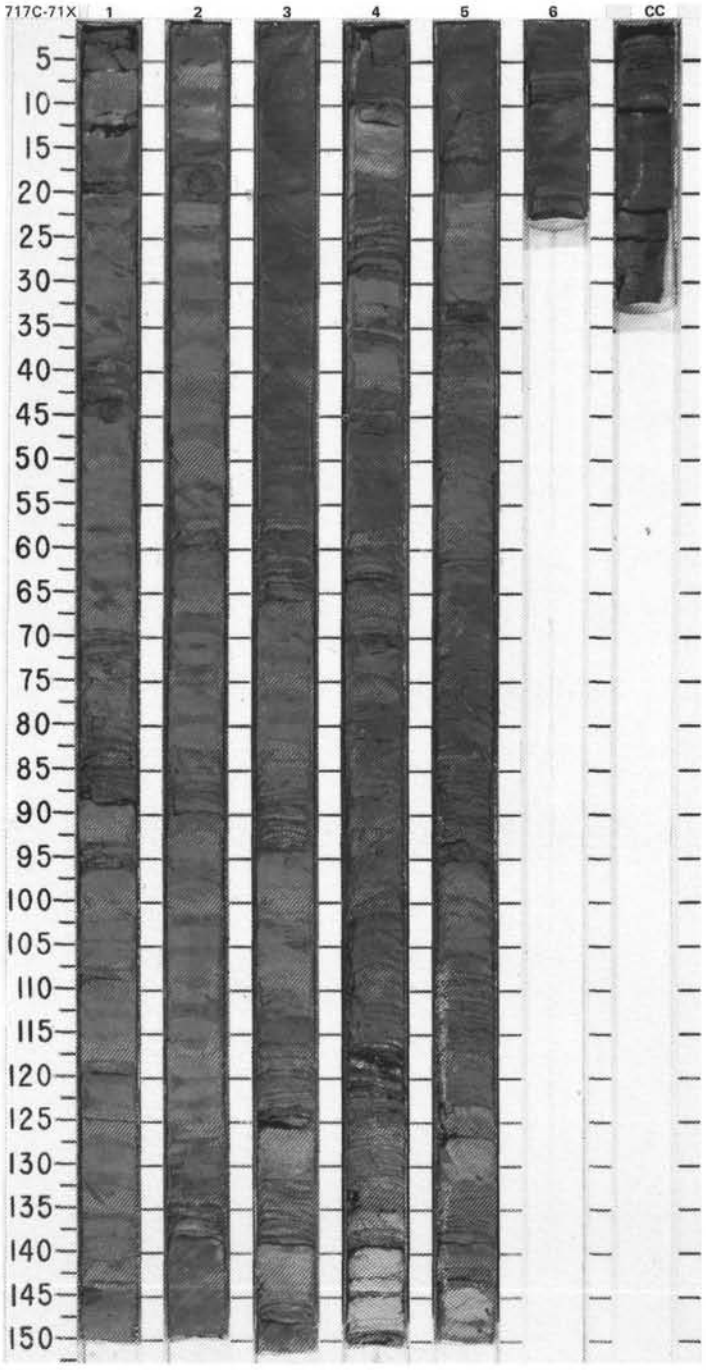
SMEAR SLIDE SUMMARY (%):

	1, 84 D	2, 70 D	3, 62 D	3, 148 D	4,62 D
TEXTURE:					
Silt	15	5	5	3	2
Clay	85	95	95	97	98
COMPOSITION:					
Access. minerals	—	2	2	Tr	1
Clay	87	91	89	—	98
Mica	5	1	5	Tr	Tr
Micrite	—	—	—	1	1
Nannofossils	3	3	Tr	99	—
Plant debris	2	2	3	Tr	—
Quartz	3	1	1	—	—
Radiolarians	—	—	—	Tr	—

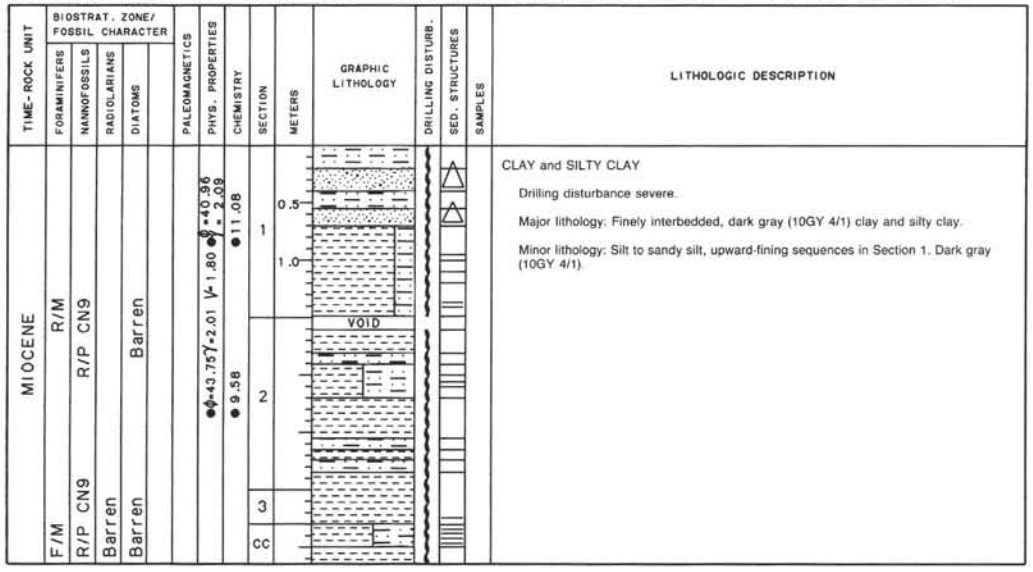


SITE 717 HOLE C CORE 71X CORED INTERVAL 5369.7-5379.2 mbsl; 635.0-644.5 mbsf

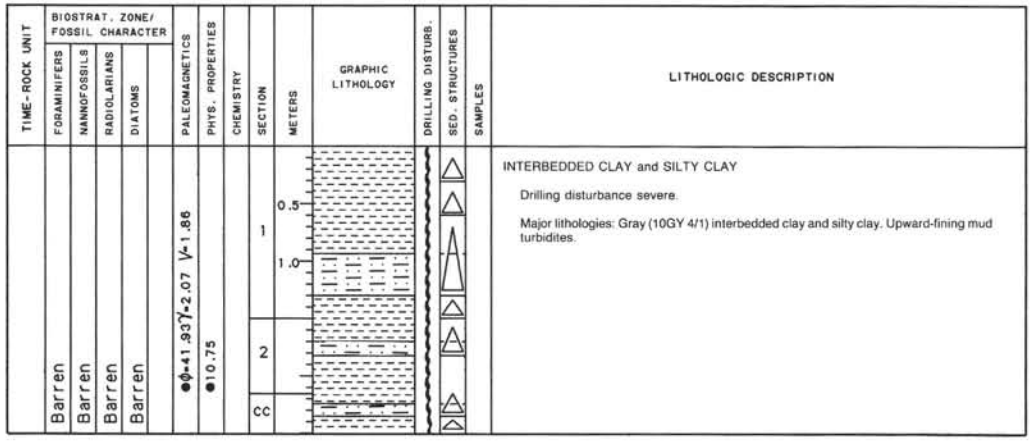


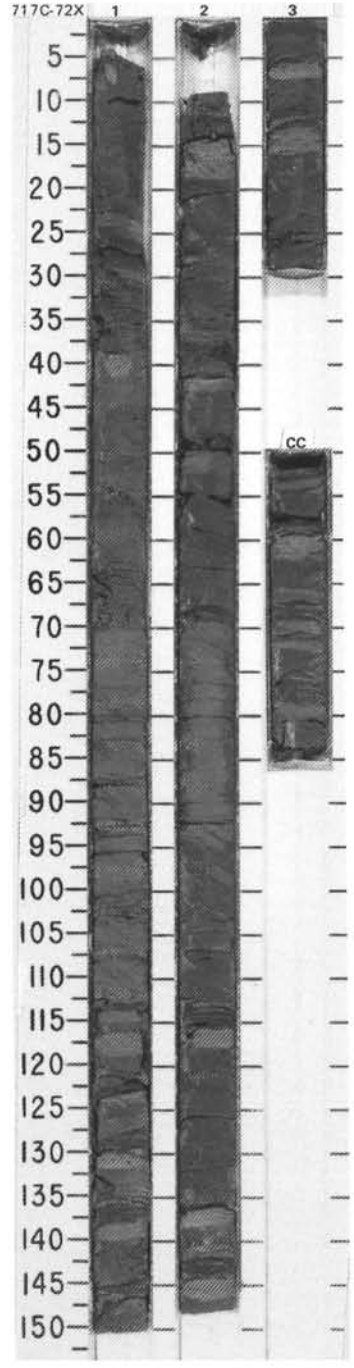


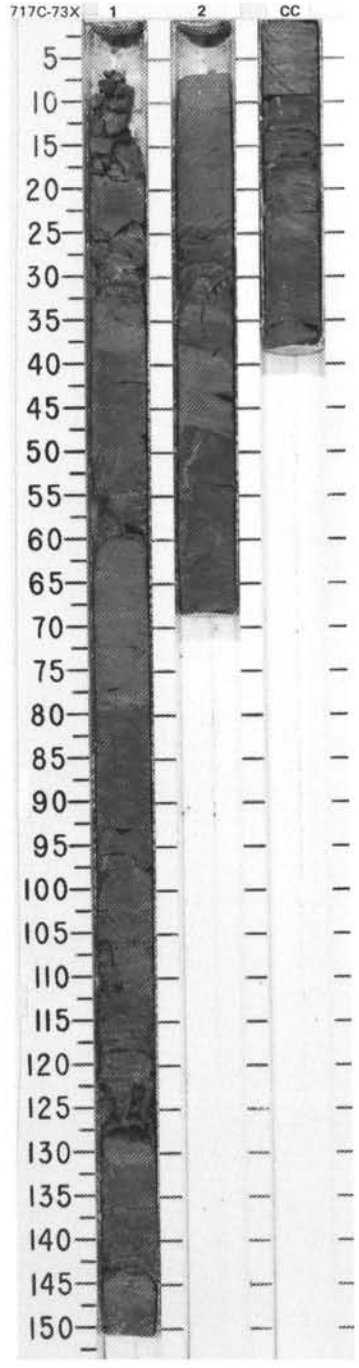
SITE 717 HOLE C CORE 72X CORED INTERVAL 5379.2-5388.7 mbsl; 644.5-654.0 mbsf



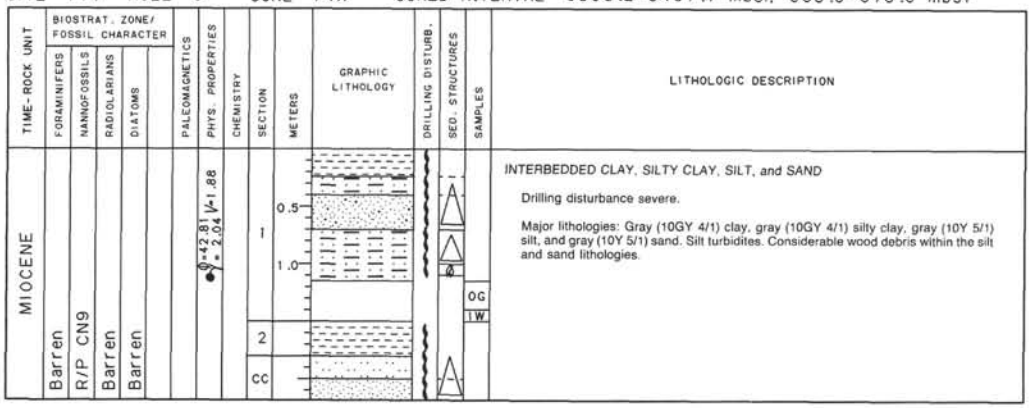
SITE 717 HOLE C CORE 73X CORED INTERVAL 5388.7-5398.2 mbsl; 654.0-663.5 mbsf







SITE 717 HOLE C CORE 74X CORED INTERVAL 5398.2-5407.7 mbsl; 663.5-673.0 mbsf

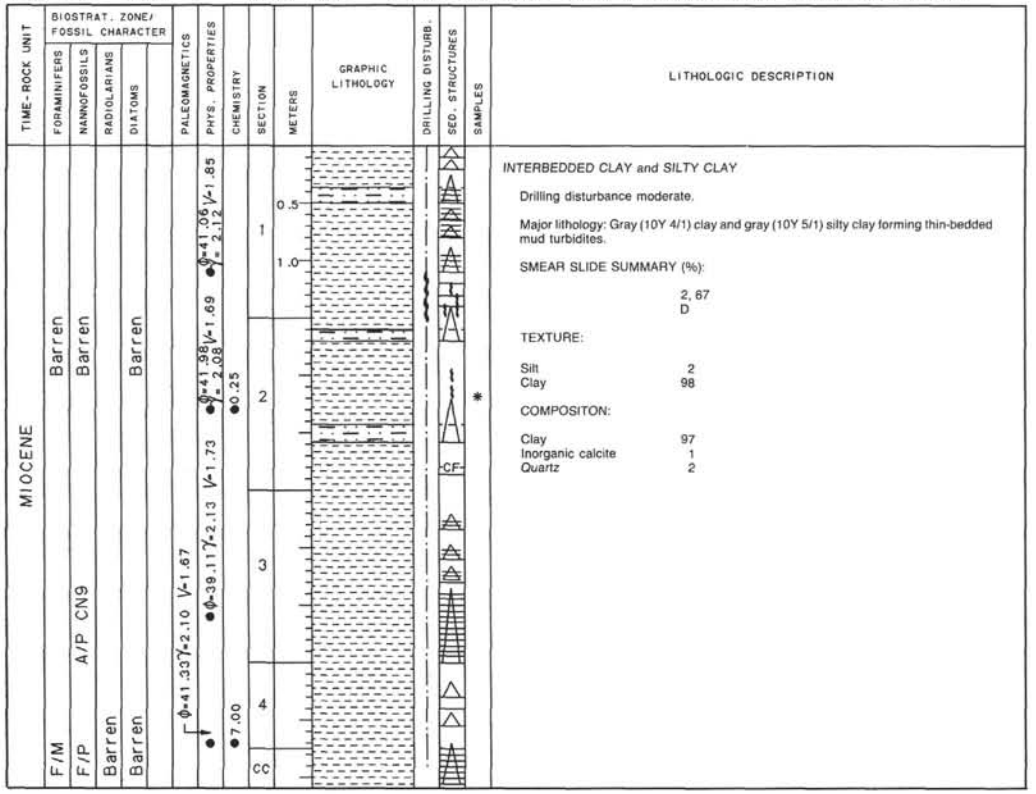


INTERBEDDED CLAY, SILTY CLAY, SILT, and SAND

Drilling disturbance severe.

Major lithologies: Gray (10GY 4/1) clay, gray (10GY 4/1) silty clay, gray (10Y 5/1) silt, and gray (10Y 5/1) sand. Silt turbidites. Considerable wood debris within the silt and sand lithologies.

SITE 717 HOLE C CORE 75X CORED INTERVAL 5407.7-5417.2 mbsl; 673.0-682.5 mbsf



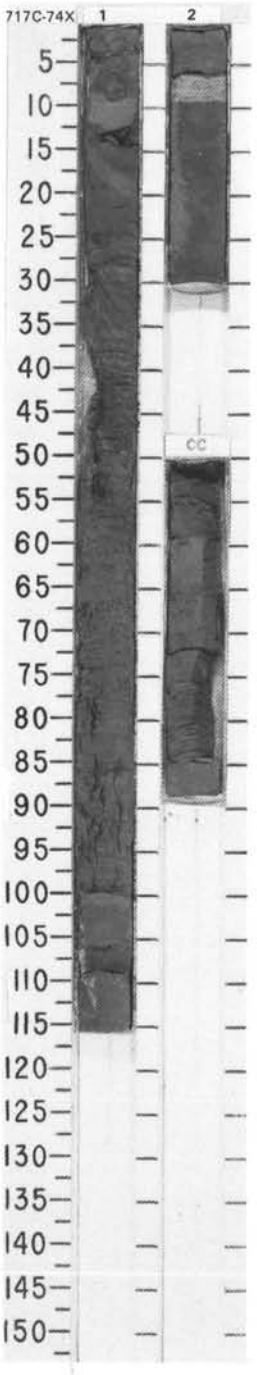
INTERBEDDED CLAY and SILTY CLAY

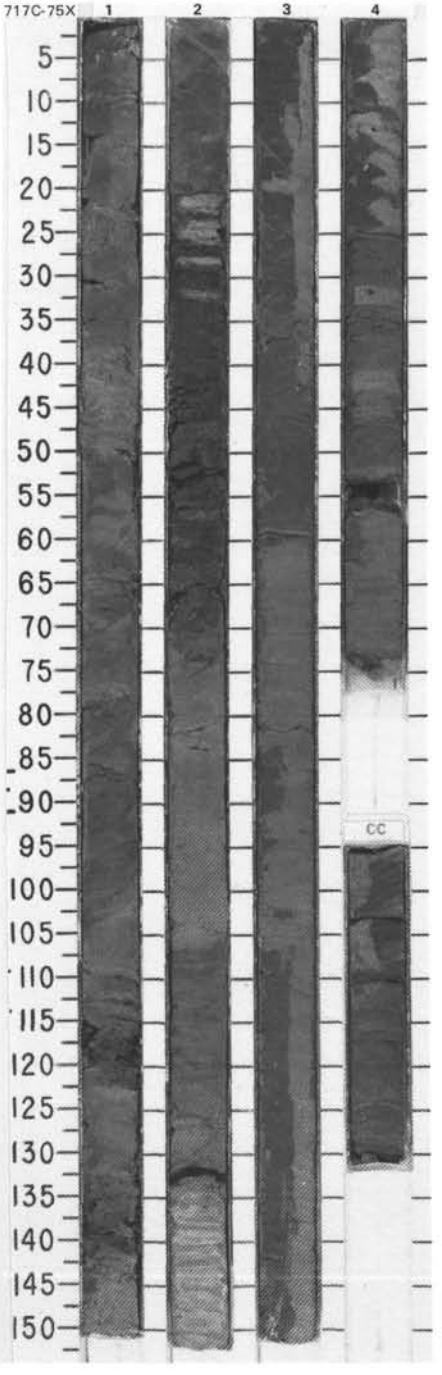
Drilling disturbance moderate.

Major lithology: Gray (10Y 4/1) clay and gray (10Y 5/1) silty clay forming thin-bedded mud turbidites.

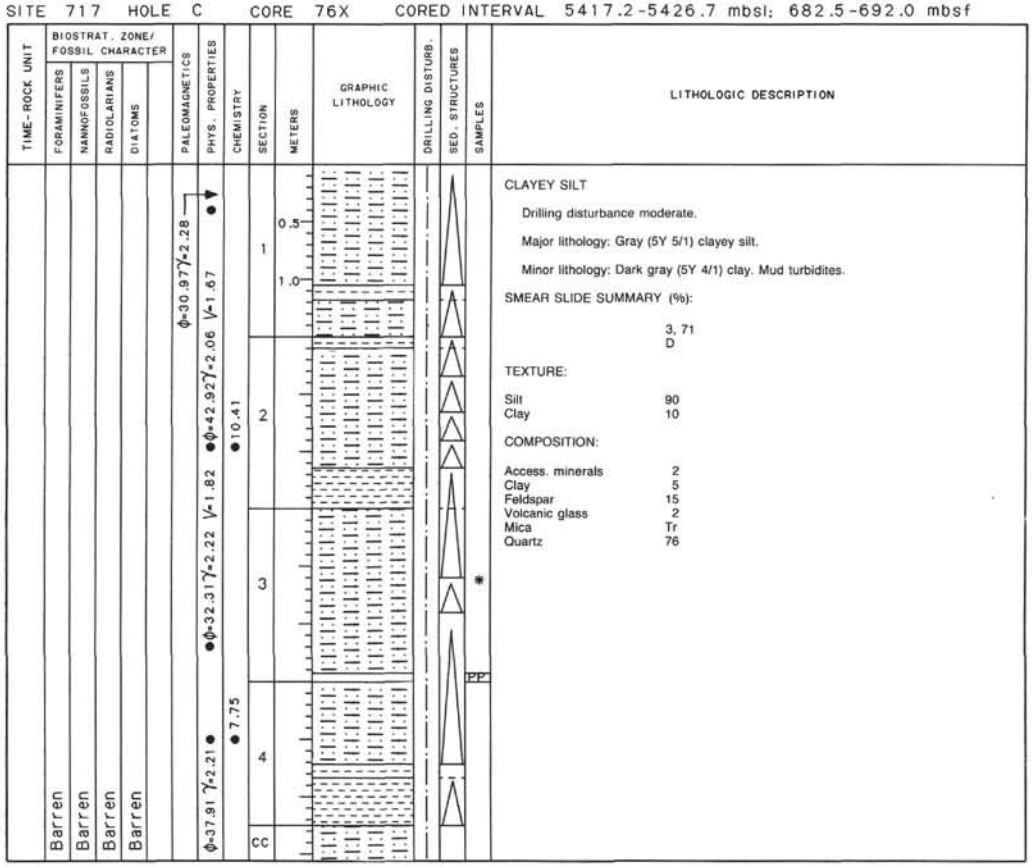
SMEAR SLIDE SUMMARY (%):

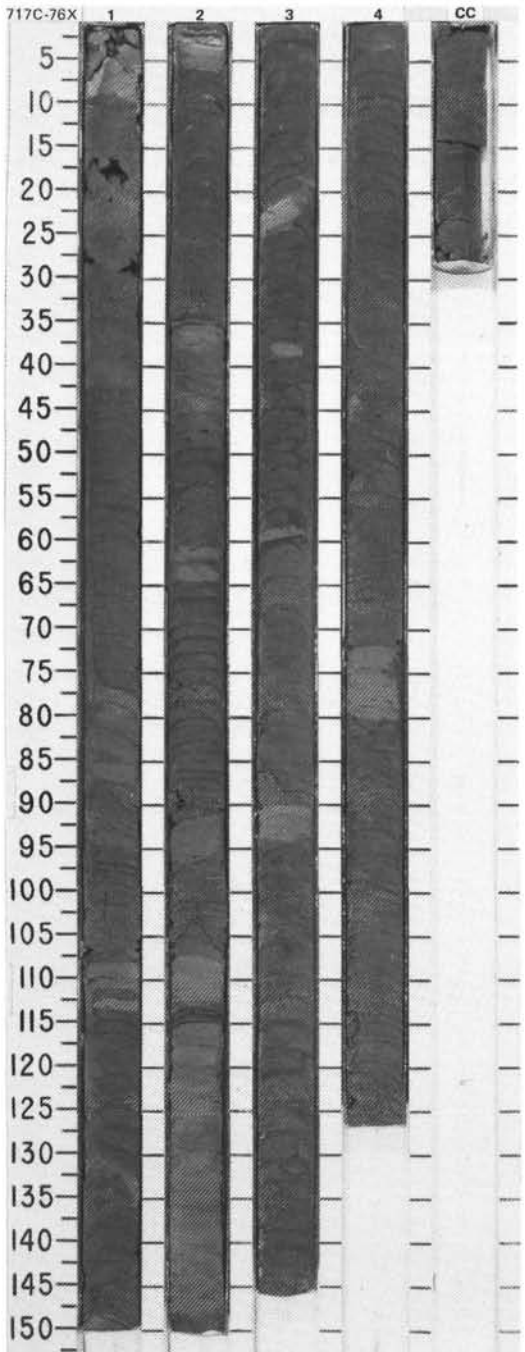
	2, 67
	D
TEXTURE:	
Silt	2
Clay	98
COMPOSITON:	
Clay	97
Inorganic calcite	1
Quartz	2



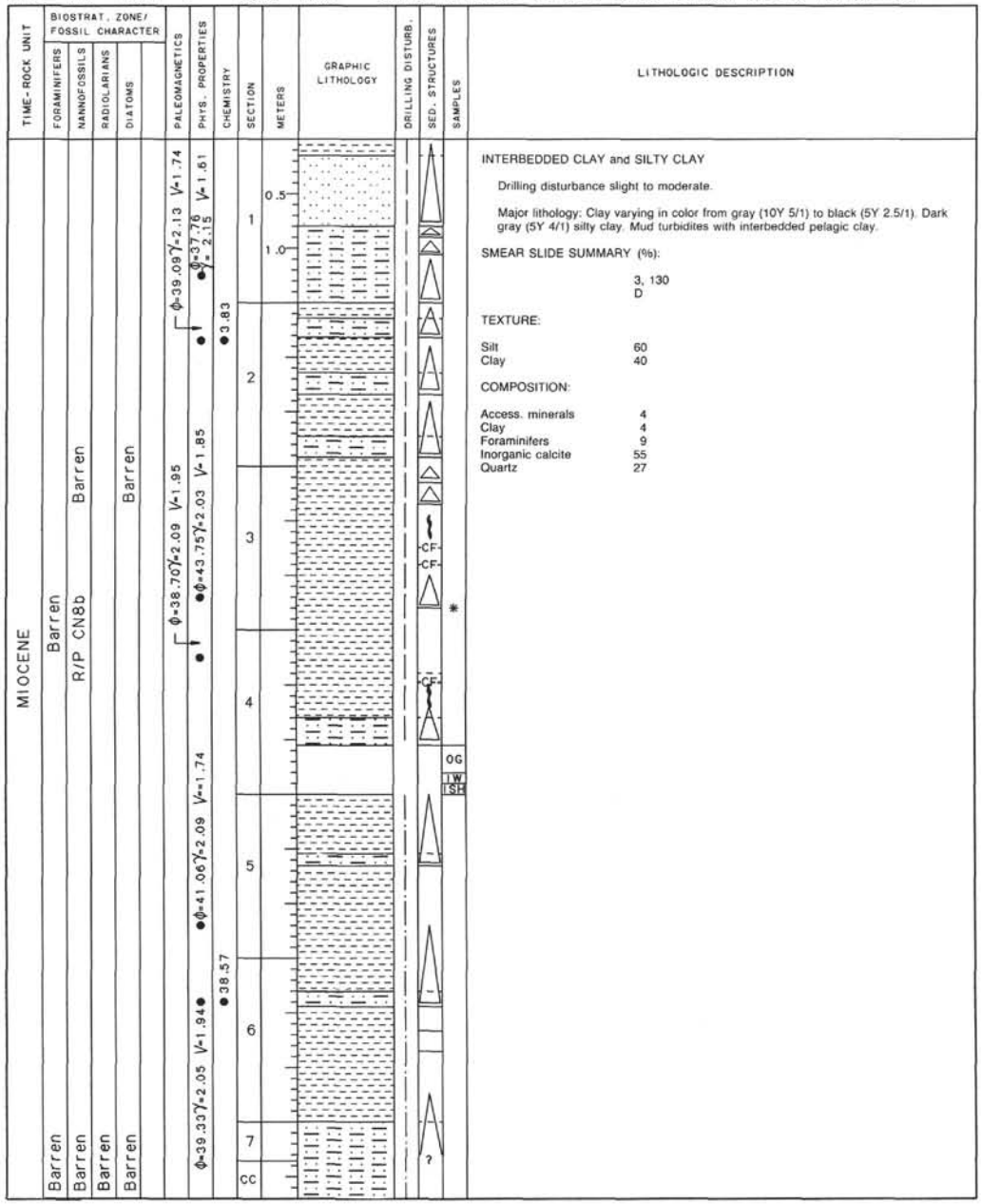


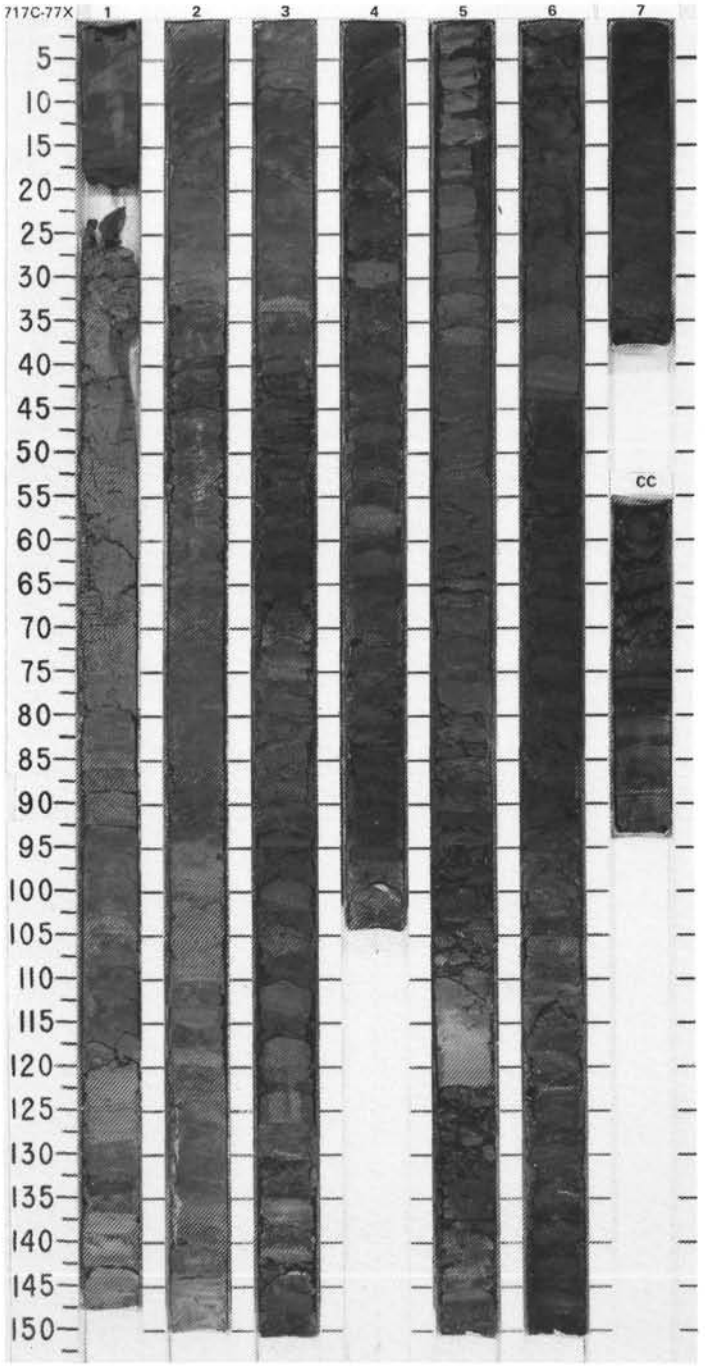
SITE 717 HOLE C CORE 76X CORED INTERVAL 5417.2-5426.7 mbsl; 682.5-692.0 mbsf



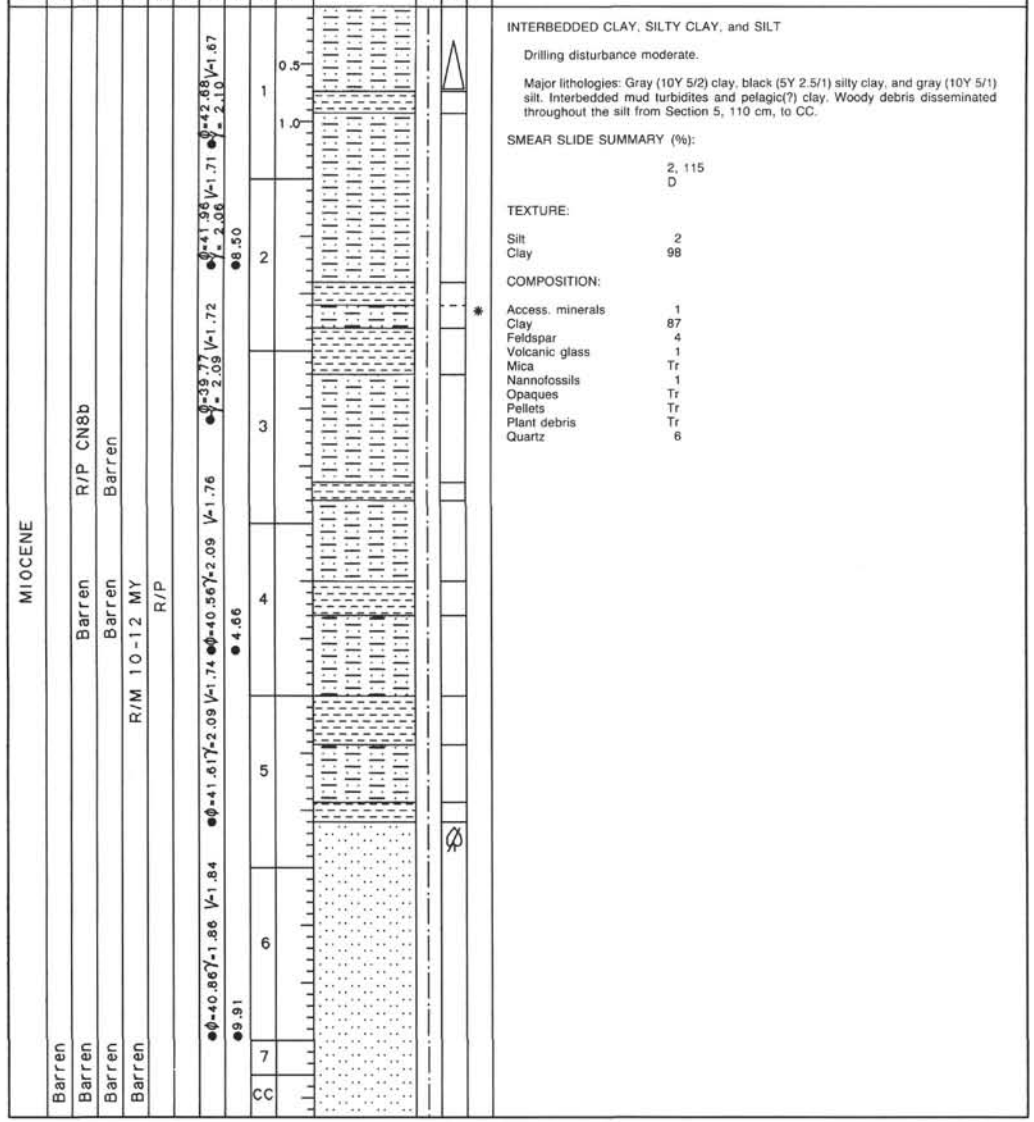


SITE 717 HOLE C CORE 77X CORED INTERVAL 5426.7-5436.2 mbsl; 692.0-701.5 mbsf





SITE 717 HOLE C CORE 78X CORED INTERVAL 5436.2-5445.7 mbsl; 701.5-711.0 mbsf



LITHOLOGIC DESCRIPTION

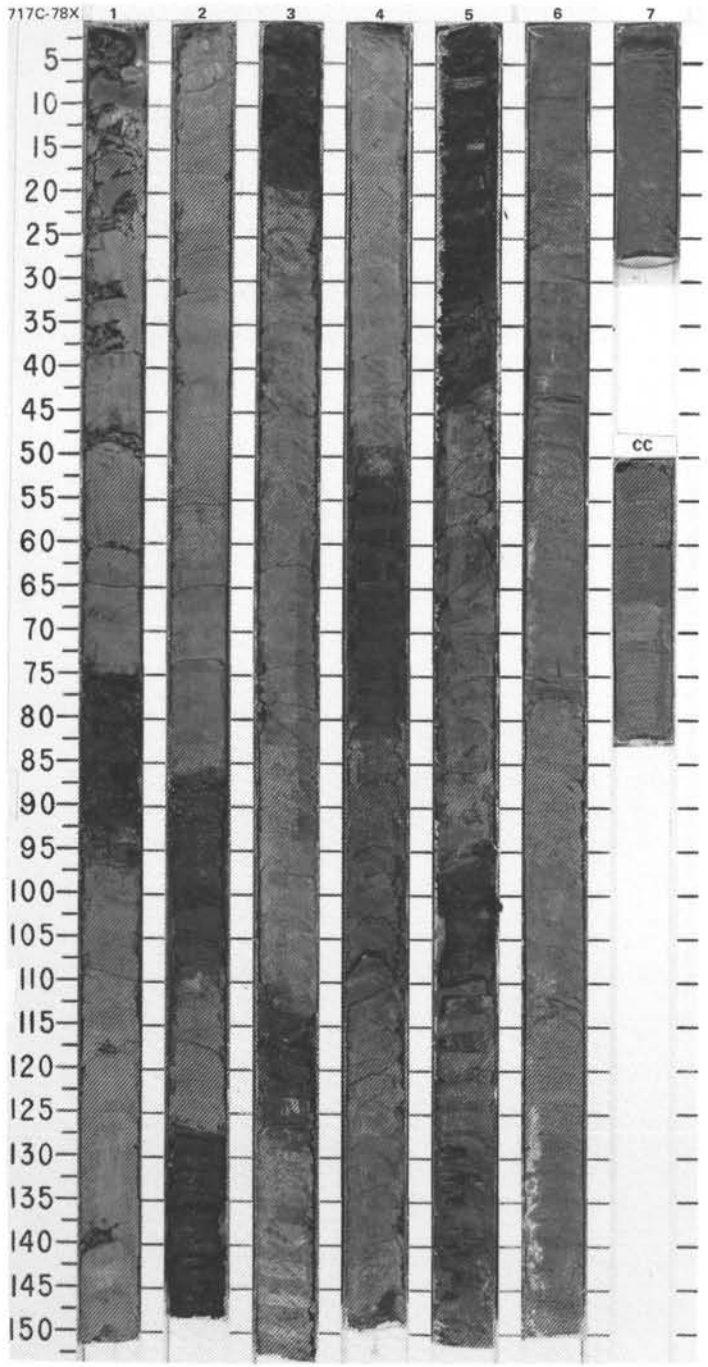
INTERBEDDED CLAY, SILTY CLAY, and SILT

Drilling disturbance moderate.

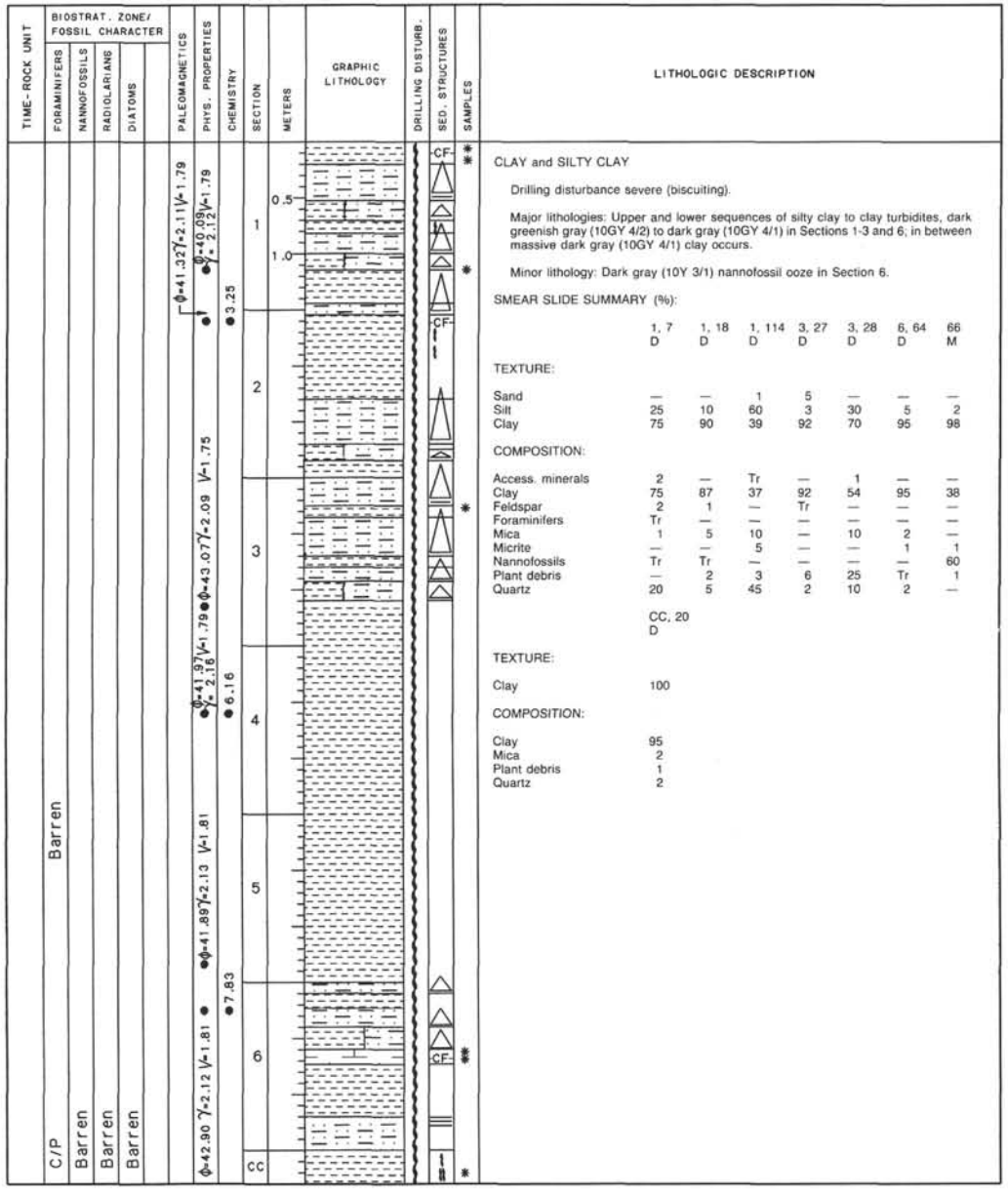
Major lithologies: Gray (10Y 5/2) clay, black (5Y 2.5/1) silty clay, and gray (10Y 5/1) silt. Interbedded mud turbidites and pelagic(?) clay. Woody debris disseminated throughout the silt from Section 5, 110 cm, to CC.

SMEAR SLIDE SUMMARY (%):

	2, 115
	D
TEXTURE:	
Silt	2
Clay	98
COMPOSITION:	
Access. minerals	1
Clay	87
Feldspar	4
Volcanic glass	1
Mica	Tr
Nannofossils	1
Opaques	Tr
Pellets	Tr
Plant debris	Tr
Quartz	6



SITE 717 HOLE C CORE 79X CORED INTERVAL 5445.7-5455.2 mbsl; 711.0-720.5 mbsf



LITHOLOGIC DESCRIPTION

CLAY and SILTY CLAY

Drilling disturbance severe (biscuiting).

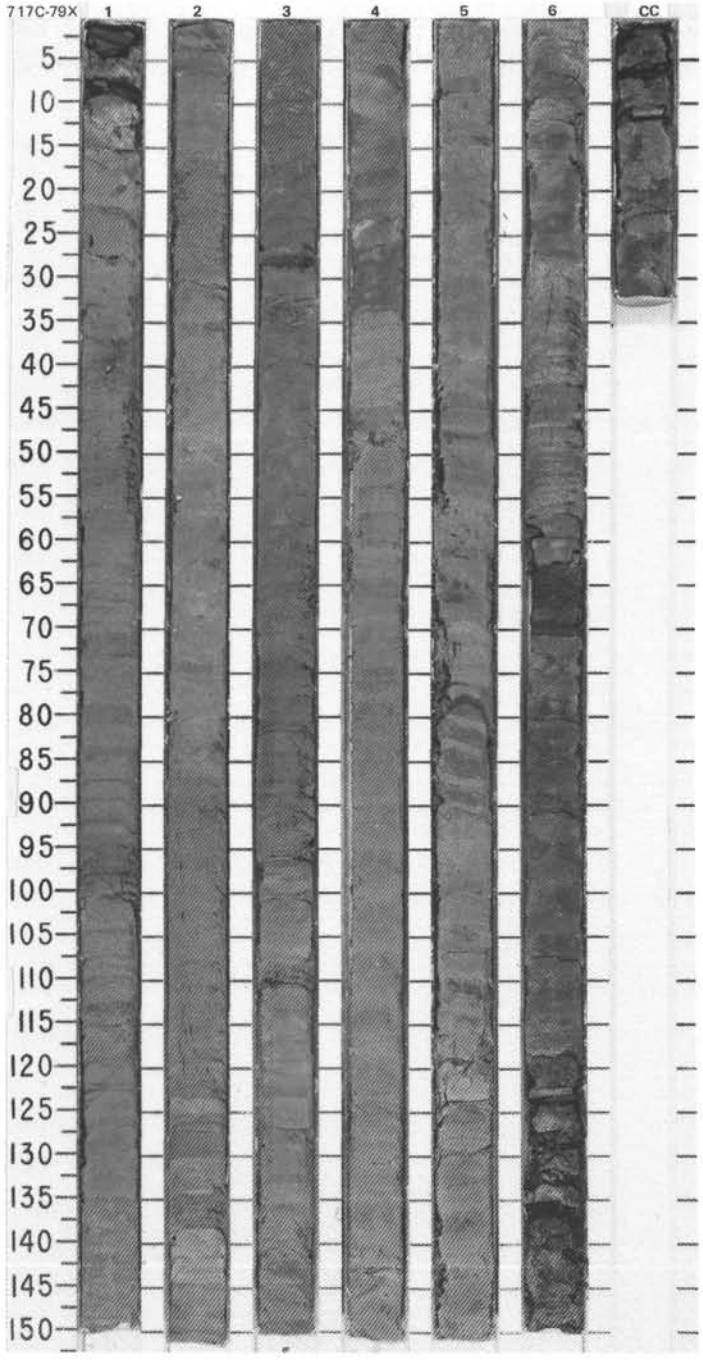
Major lithologies: Upper and lower sequences of silty clay to clay turbidites, dark greenish gray (10GY 4/2) to dark gray (10GY 4/1) in Sections 1-3 and 6; in between massive dark gray (10GY 4/1) clay occurs.

Minor lithology: Dark gray (10Y 3/1) nannofossil ooze in Section 6.

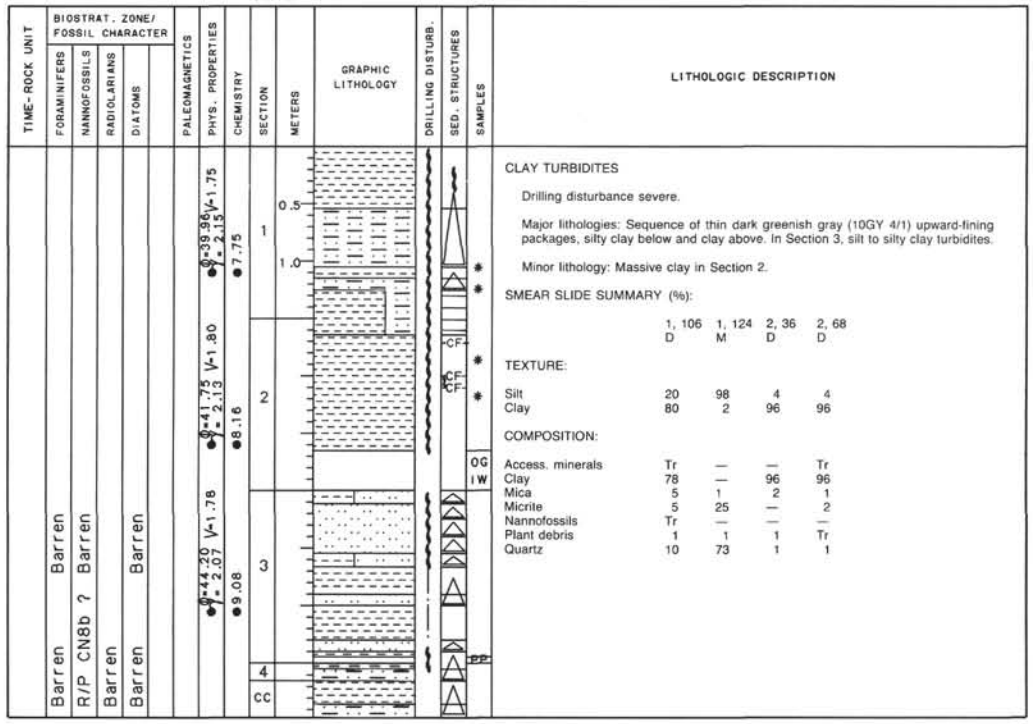
SMEAR SLIDE SUMMARY (%):

	1, 7 D	1, 18 D	1, 114 D	3, 27 D	3, 28 D	6, 64 D	66 M
TEXTURE:							
Sand	—	—	1	5	—	—	—
Silt	25	10	60	3	30	5	2
Clay	75	90	39	92	70	95	98
COMPOSITION:							
Access. minerals	2	—	Tr	—	1	—	—
Clay	75	87	37	92	54	95	38
Feldspar	2	1	—	Tr	—	—	—
Foraminifers	Tr	—	—	—	—	—	—
Mica	1	5	10	—	10	2	—
Micrite	—	—	5	—	—	1	1
Nannofossils	Tr	Tr	—	—	—	—	60
Plant debris	—	2	3	6	25	Tr	1
Quartz	20	5	45	2	10	2	—

	CC, 20 D
TEXTURE:	
Clay	100
COMPOSITION:	
Clay	95
Mica	2
Plant debris	1
Quartz	2



SITE 717 HOLE C CORE 80X CORED INTERVAL 5455.2-5464.7 mbsl; 720.5-730.0 mbsf



LITHOLOGIC DESCRIPTION

CLAY TURBIDITES

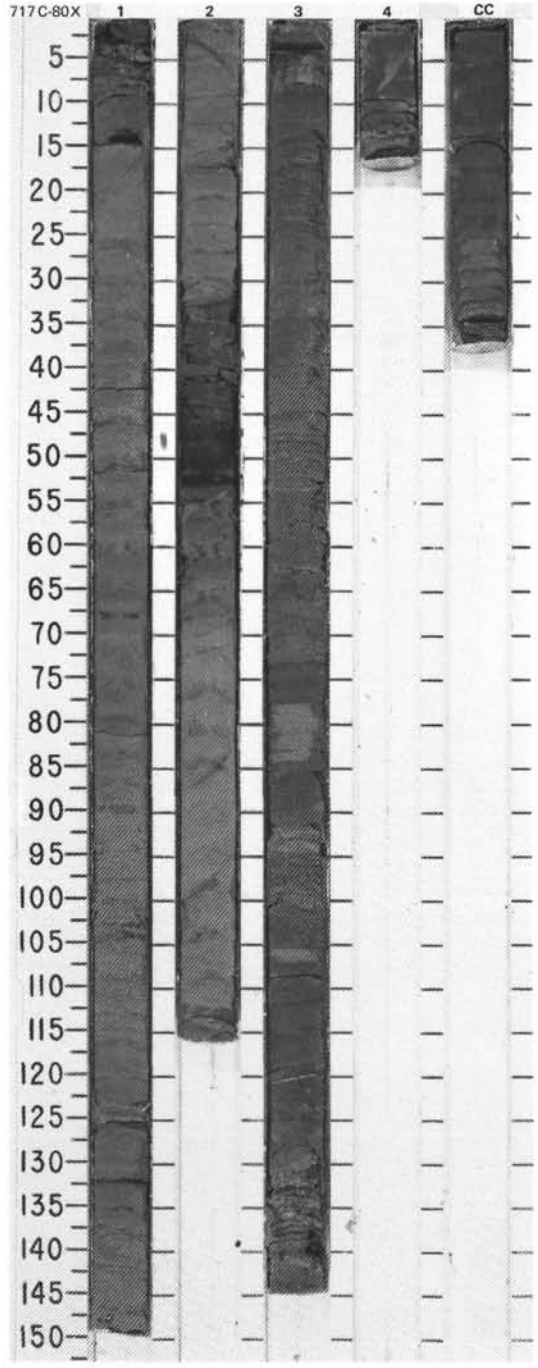
Drilling disturbance severe.

Major lithologies: Sequence of thin dark greenish gray (10GY 4/1) upward-fining packages, silty clay below and clay above. In Section 3, silt to silty clay turbidites.

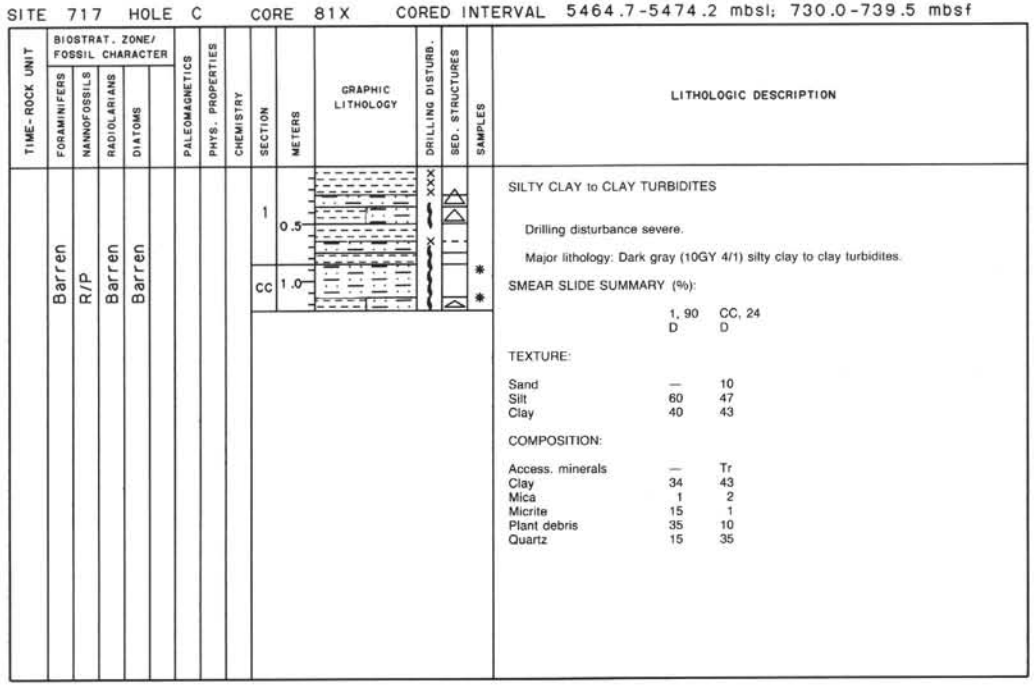
Minor lithology: Massive clay in Section 2.

SMEAR SLIDE SUMMARY (%):

	1, 106 D	1, 124 M	2, 36 D	2, 68 D
TEXTURE:				
Silt	20	98	4	4
Clay	80	2	96	96
COMPOSITION:				
Access. minerals	Tr	—	—	Tr
Clay	78	—	96	96
Mica	5	1	2	1
Micrite	5	25	—	2
Nannofossils	Tr	—	—	—
Plant debris	1	1	1	Tr
Quartz	10	73	1	1



SITE 717 HOLE C CORE 81X CORED INTERVAL 5464.7-5474.2 mbsl; 730.0-739.5 mbsf



SILTY CLAY to CLAY TURBIDITES

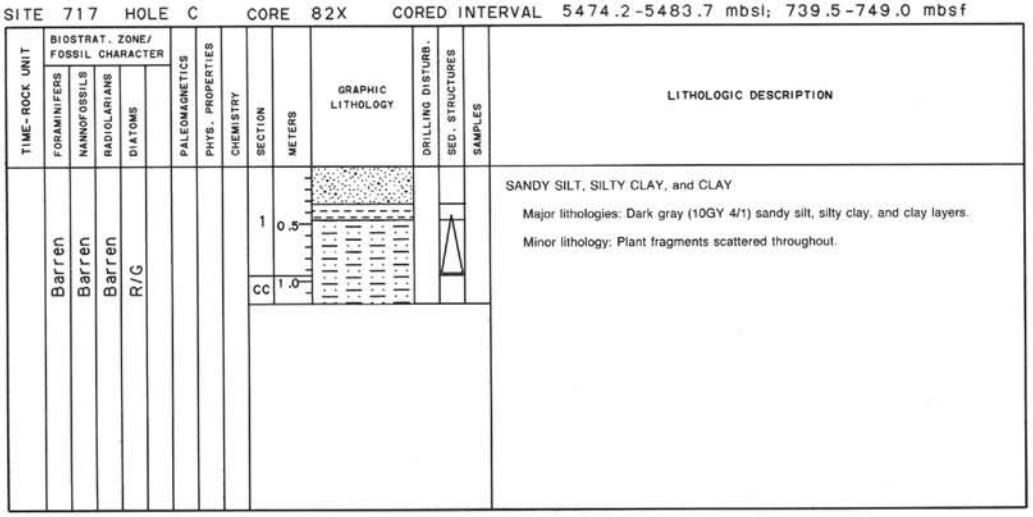
Drilling disturbance severe.

Major lithology: Dark gray (10GY 4/1) silty clay to clay turbidites.

SMEAR SLIDE SUMMARY (%):

	1, 90 D	CC, 24 D
TEXTURE:		
Sand	—	10
Silt	60	47
Clay	40	43
COMPOSITION:		
Access. minerals	—	Tr
Clay	34	43
Mica	1	2
Micrite	15	1
Plant debris	35	10
Quartz	15	35

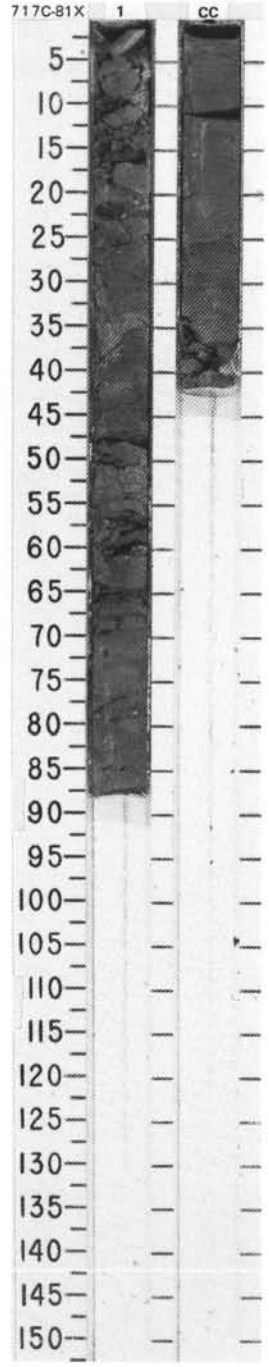
SITE 717 HOLE C CORE 82X CORED INTERVAL 5474.2-5483.7 mbsl; 739.5-749.0 mbsf

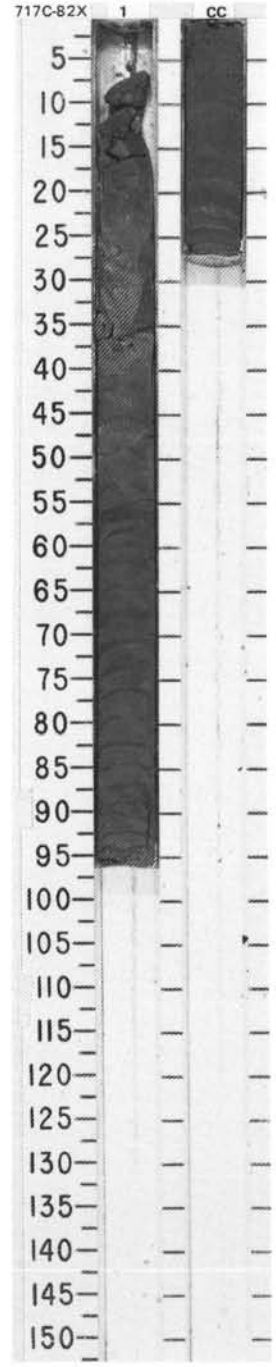


SANDY SILT, SILTY CLAY, and CLAY

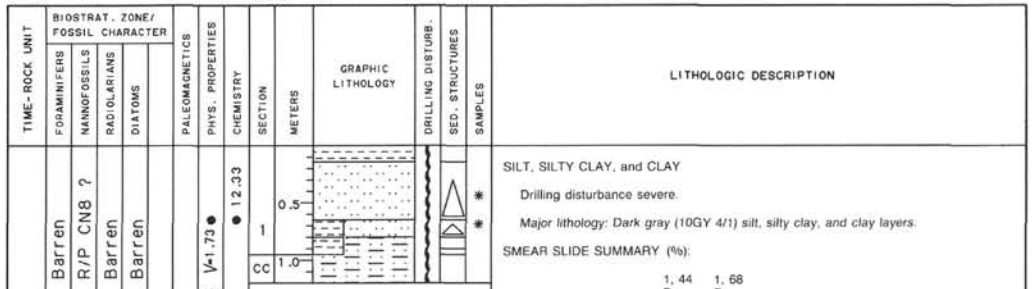
Major lithologies: Dark gray (10GY 4/1) sandy silt, silty clay, and clay layers.

Minor lithology: Plant fragments scattered throughout.





SITE 717 HOLE C CORE 83X CORED INTERVAL 5483.7-5493.2 mbsl; 749.0-758.5 mbsf



LITHOLOGIC DESCRIPTION

SILT, SILTY CLAY, and CLAY

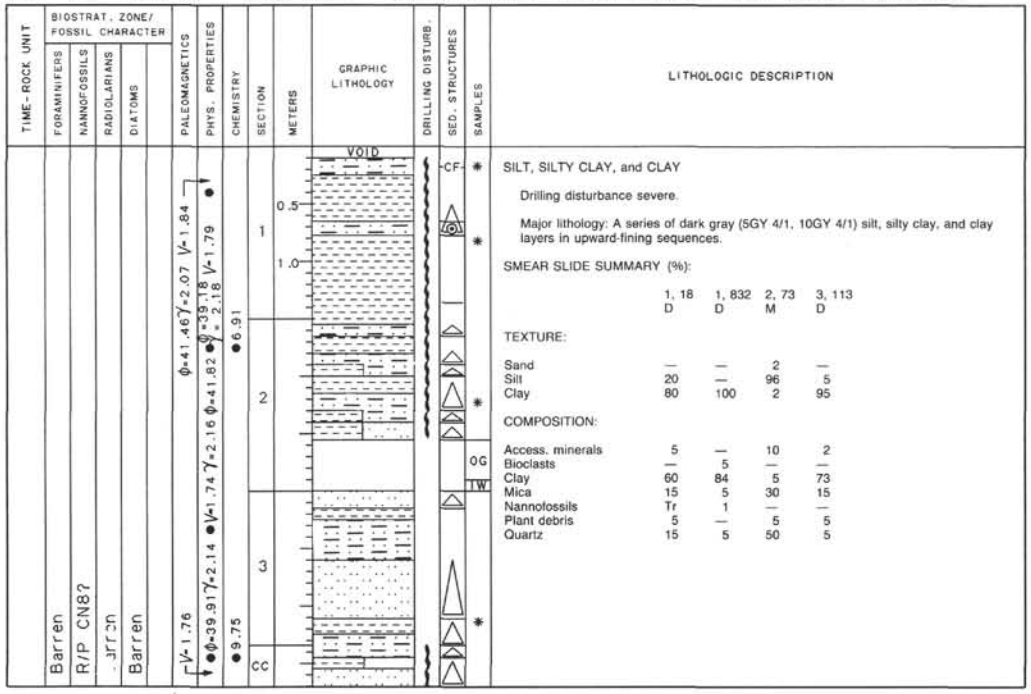
Drilling disturbance severe.

Major lithology: Dark gray (10GY 4/1) silt, silty clay, and clay layers.

SMEAR SLIDE SUMMARY (%):

	1, 44 D	1, 68 D
TEXTURE:		
Silt	95	—
Clay	5	100
COMPOSITION:		
Access. minerals	10	—
Clay	5	75
Mica	30	—
Micrite	—	15
Nannofossils	—	10
Plant debris	25	—
Quartz	30	—

SITE 717 HOLE C CORE 84X CORED INTERVAL 5493.2-5502.7 mbsl; 758.5-768.0 mbsf



LITHOLOGIC DESCRIPTION

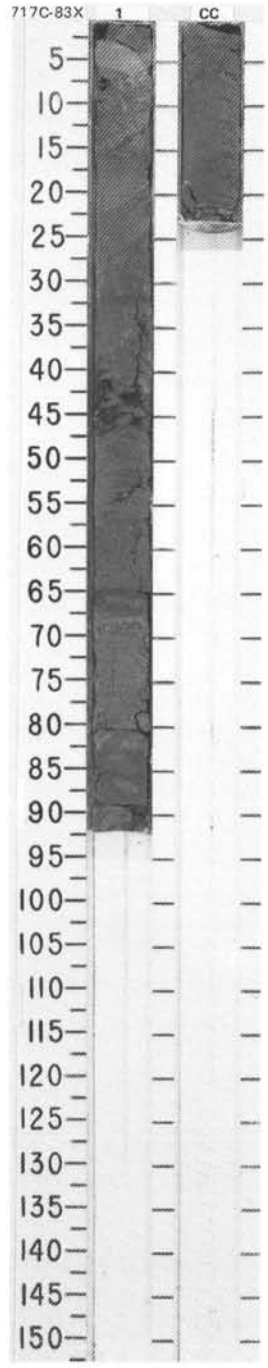
SILT, SILTY CLAY, and CLAY

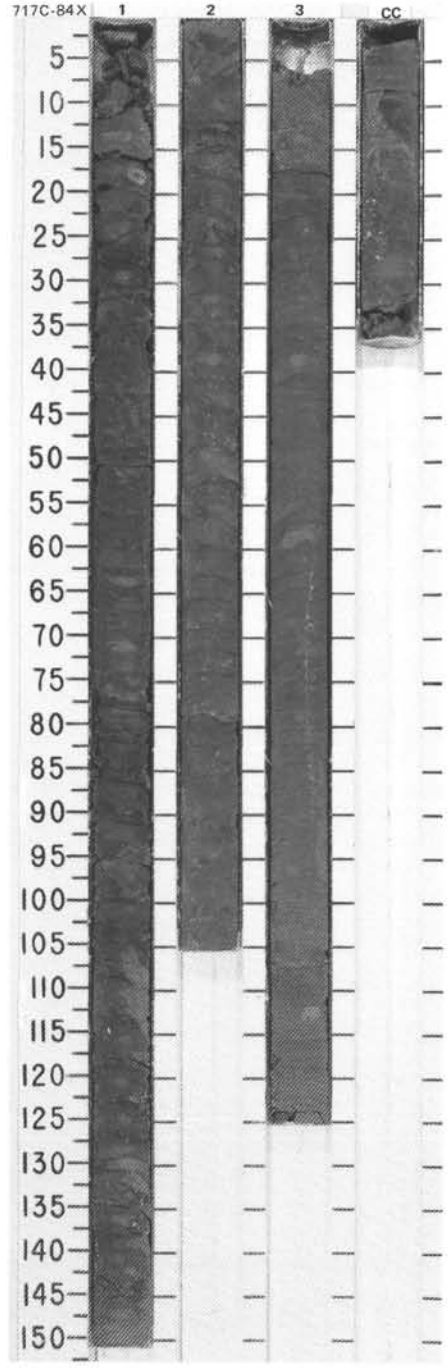
Drilling disturbance severe.

Major lithology: A series of dark gray (5GY 4/1, 10GY 4/1) silt, silty clay, and clay layers in upward-fining sequences.

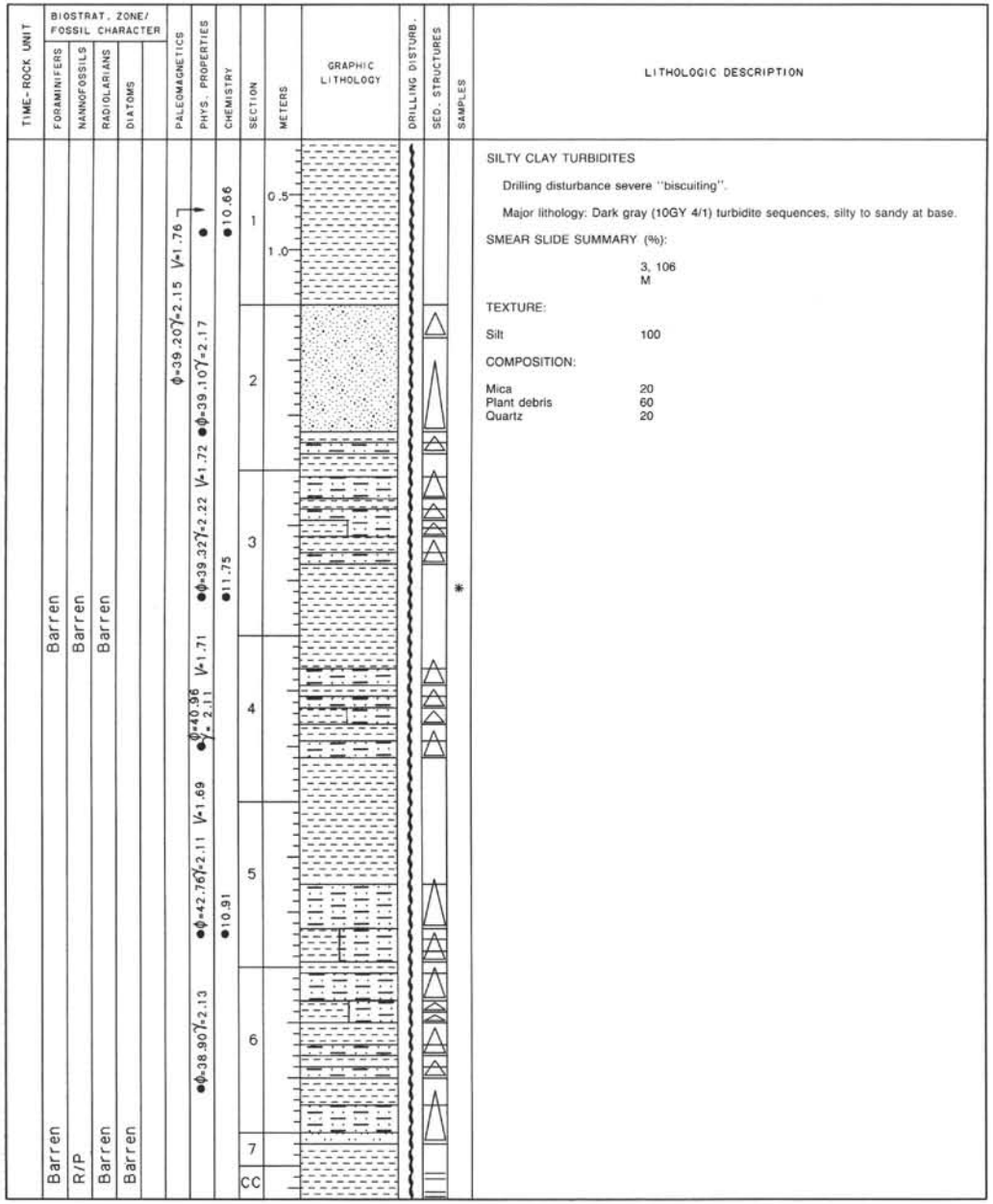
SMEAR SLIDE SUMMARY (%):

	1, 18 D	1, 832 D	2, 73 M	3, 113 D
TEXTURE:				
Sand	—	—	2	—
Silt	20	—	96	5
Clay	80	100	2	95
COMPOSITION:				
Access. minerals	5	—	10	2
Bioclasts	—	5	—	—
Clay	60	84	5	73
Mica	15	5	30	15
Nannofossils	Tr	1	—	—
Plant debris	5	—	5	5
Quartz	15	5	50	5





SITE 717 HOLE C CORE 85X CORED INTERVAL 5502.7-5512.2 mbsl; 768.0-777.5 mbsf



LITHOLOGIC DESCRIPTION

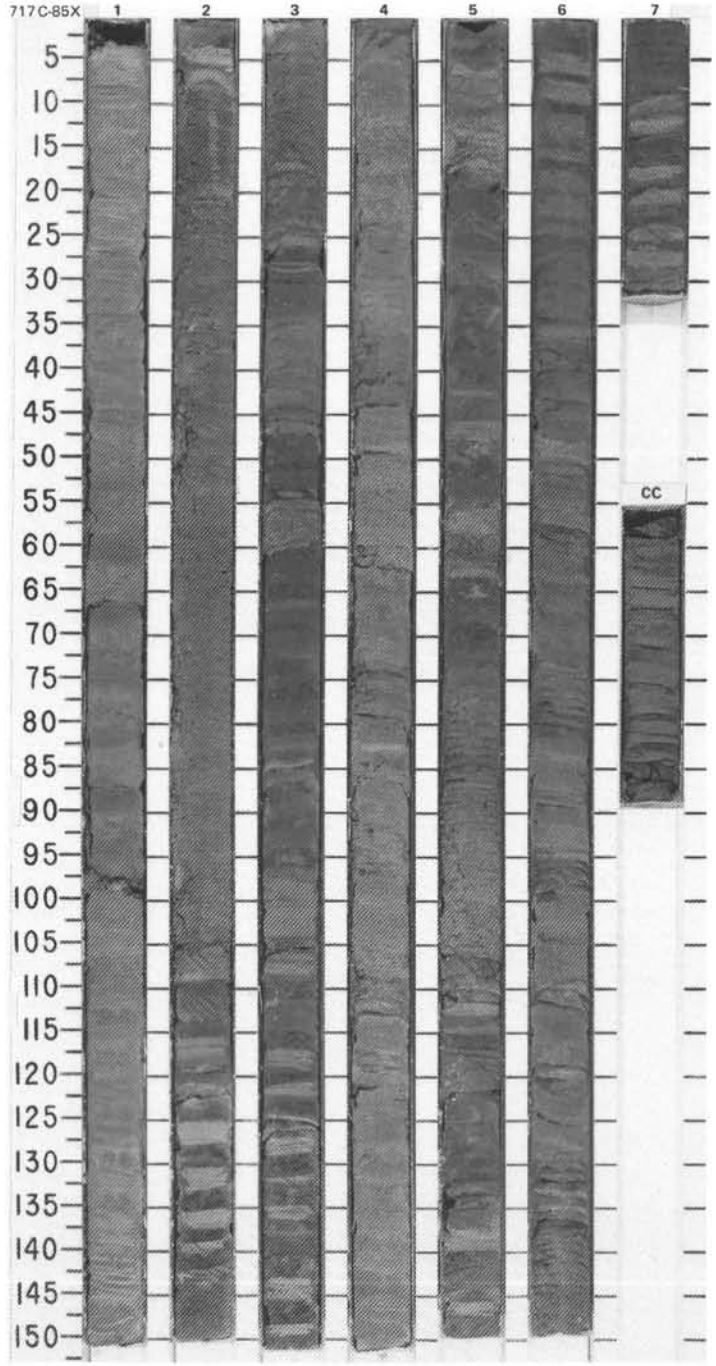
SILTY CLAY TURBIDITES

Drilling disturbance severe "biscuiting".

Major lithology: Dark gray (10GY 4/1) turbidite sequences, silty to sandy at base.

SMEAR SLIDE SUMMARY (%):

	3, 106
	M
TEXTURE:	
Silt	100
COMPOSITION:	
Mica	20
Plant debris	60
Quartz	20

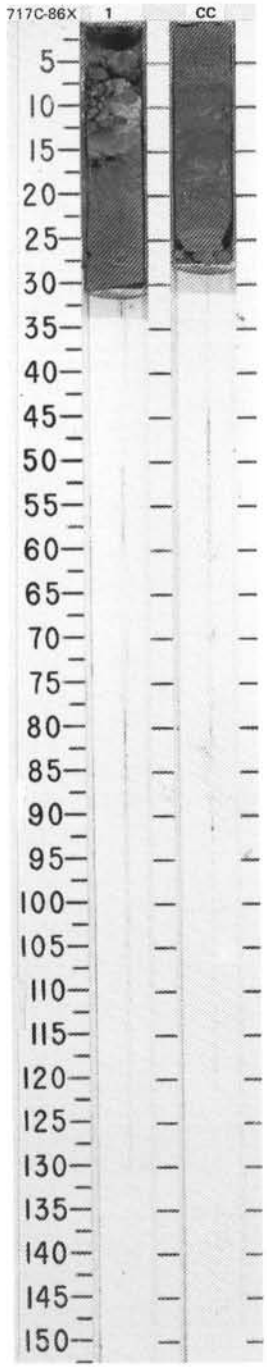


SITE 717 HOLE C CORE 86X CORED INTERVAL 5512.2-5521.7 mbsl; 777.5-787.0 mbsf

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				1, CC						SILT Drilling disturbance severe, with drilling breccia (or fill) at top. Major lithology: Dark gray (10GY 4/1) silt.

SITE 717 HOLE C CORE 87X CORED INTERVAL 5521.7-5531.2 mbsl; 787.0-796.5 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	Barren Barren	Barren Barren		● V=4.98 ● φ=47.02 γ=2.04 ● φ=39.54 γ=2.20 γ=1.68	●0.92	1 2 CC	0.5 1.0	VOID			IW OG *	SANDY SILT, CLAY, SILTY CLAY, and SANDSTONE Drilling disturbance moderate to severe. Major lithologies: Sandy silt, gray (5Y 5/1), with silty turbidites. Dark gray (5Y 4/1) clay and gray (5Y 5/1) silty clay, with mud turbidites. Gray (5Y 5/1) sandstone. SMEAR SLIDE SUMMARY (%): CC, 28 D TEXTURE: Sand 60; Silt 40 COMPOSITION: Access. minerals 2; Cement 20; Feldspar 5; Mica 2; Quartz 66; Rock fragments 5



SITE 717 HOLE C CORE 88X CORED INTERVAL 5531.2-5540.7 mbsl; 796.5-806.0 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				1 CC	0.5			*		

SANDY SILT

Drilling disturbance severe.

Gray (5Y 5/1) sandy silt.

SMEAR SLIDE SUMMARY (%):

	CC, 30 M

TEXTURE:

Sand	100

COMPOSITION:

Access. minerals	7
Feldspar	10
Mica	5
Quartz	6
Rock fragments	10

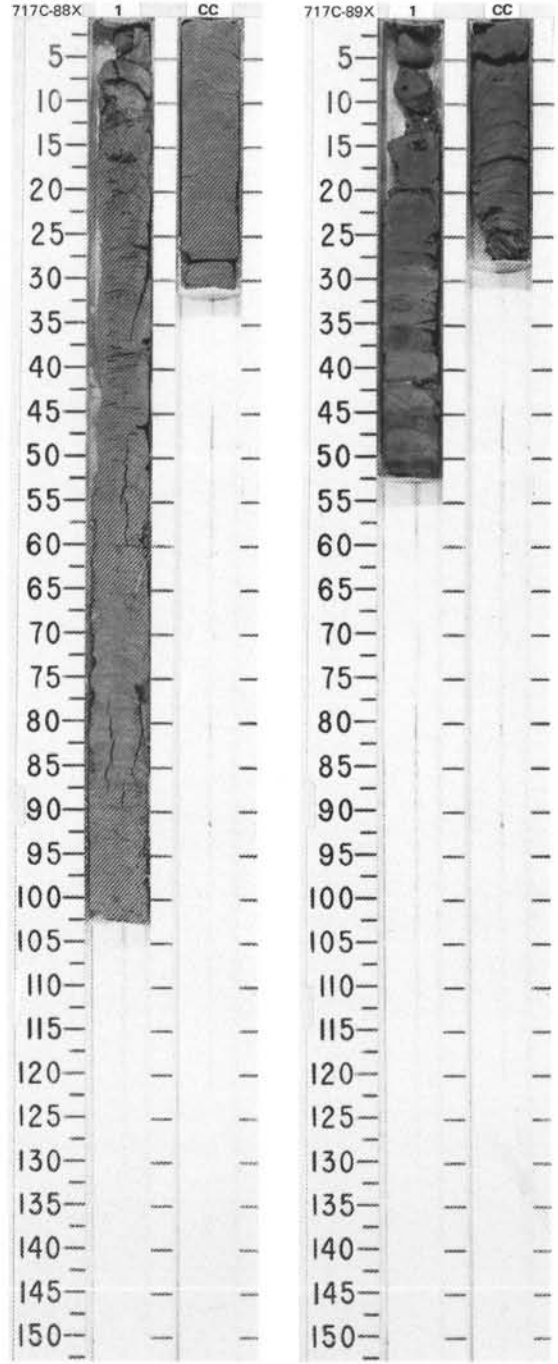
SITE 717 HOLE C CORE 89X CORED INTERVAL 5540.7-5543.9 mbsl; 806.0-809.2 mbsf

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
	Barren	R/P	Barren	Barren		ϕ=41.39 γ=2.10 V=1.68 ●		1	0.5			△		

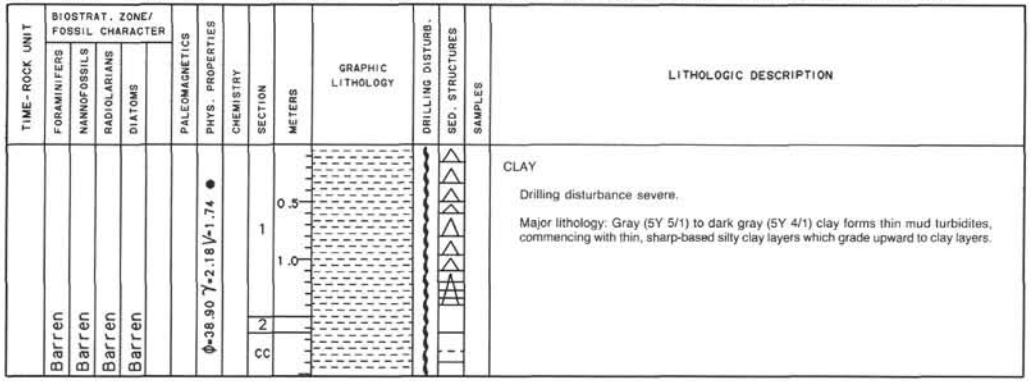
CLAY and SILTY CLAY

Drilling disturbance moderate.

Major lithologies: Olive gray (5Y 5/2) clay and gray (5Y 5/1) silty clay. In Section 1 upward-fining mud turbidites, commencing with a thin sharp-based silty clay. In CC, upward-fining mud turbidite.



SITE 717 HOLE C CORE 90X CORED INTERVAL 5543.9-5553.4 mbsl; 809.2-818.7 mbsf

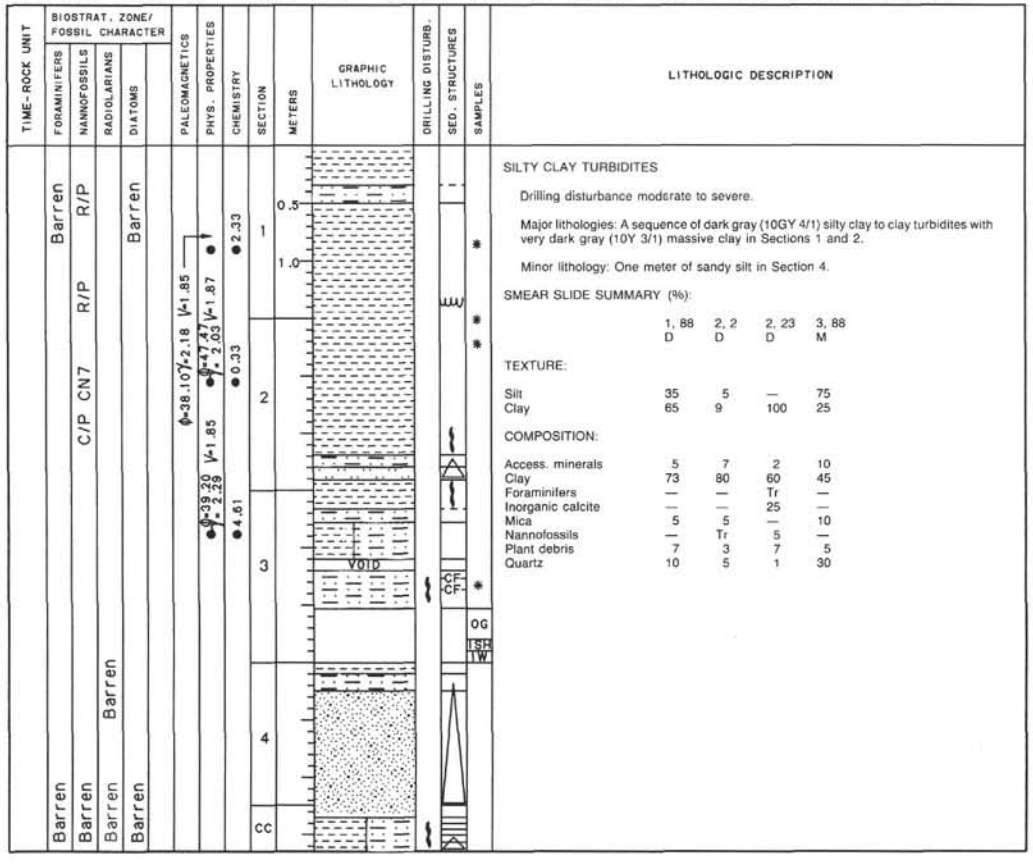


CLAY

Drilling disturbance severe.

Major lithology: Gray (5Y 5/1) to dark gray (5Y 4/1) clay forms thin mud turbidites, commencing with thin, sharp-based silty clay layers which grade upward to clay layers.

SITE 717 HOLE C CORE 91X CORED INTERVAL 5553.4-5562.9 mbsl; 818.7-828.2 mbsf

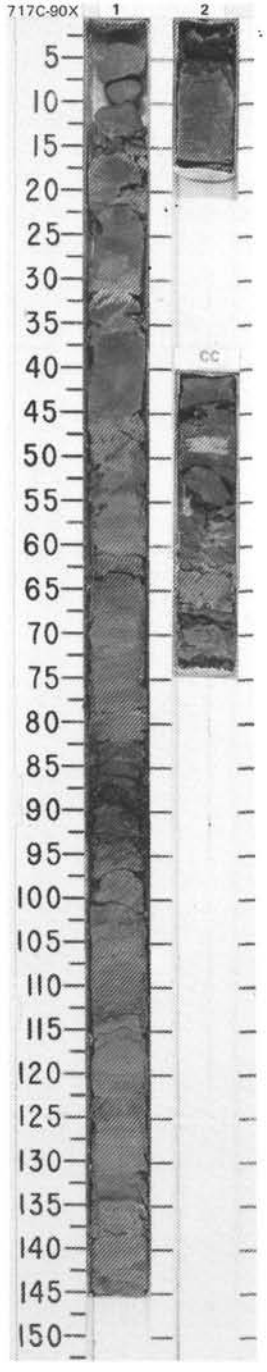
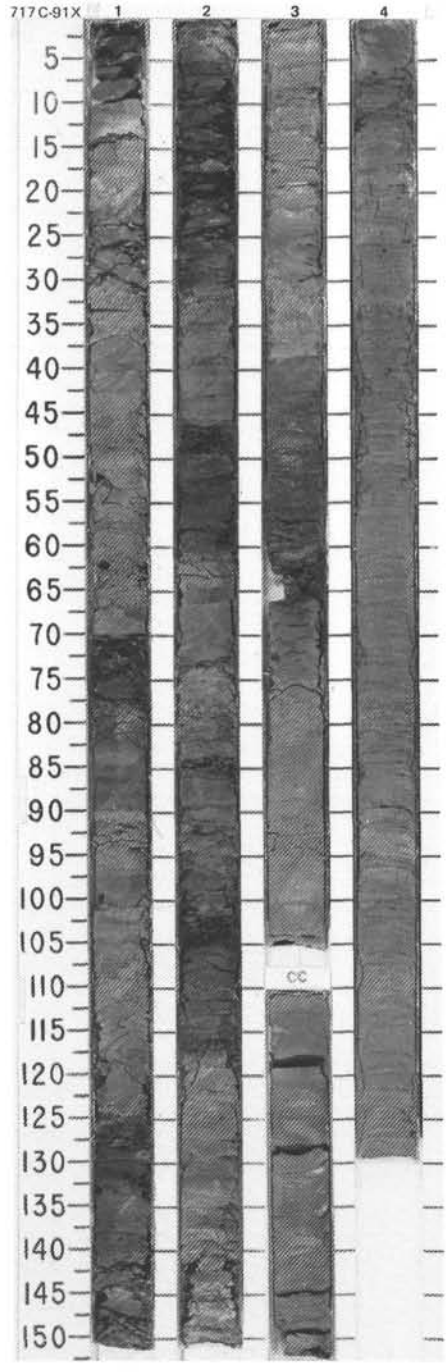


SILTY CLAY TURBIDITES

Drilling disturbance moderate to severe.

Major lithologies: A sequence of dark gray (10GY 4/1) silty clay to clay turbidites with very dark gray (10Y 3/1) massive clay in Sections 1 and 2.

Minor lithology: One meter of sandy silt in Section 4.

SMEAR SLIDE SUMMARY (%):

	1, 88 D	2, 2 D	2, 23 D	3, 88 M
TEXTURE:				
Silt	35	5	—	75
Clay	65	9	100	25
COMPOSITION:				
Access. minerals	5	7	2	10
Clay	73	80	60	45
Foraminifers	—	—	Tr	—
Inorganic calcite	—	—	25	—
Mica	5	5	—	10
Nannofossils	—	Tr	5	—
Plant debris	7	3	7	5
Quartz	10	5	1	30