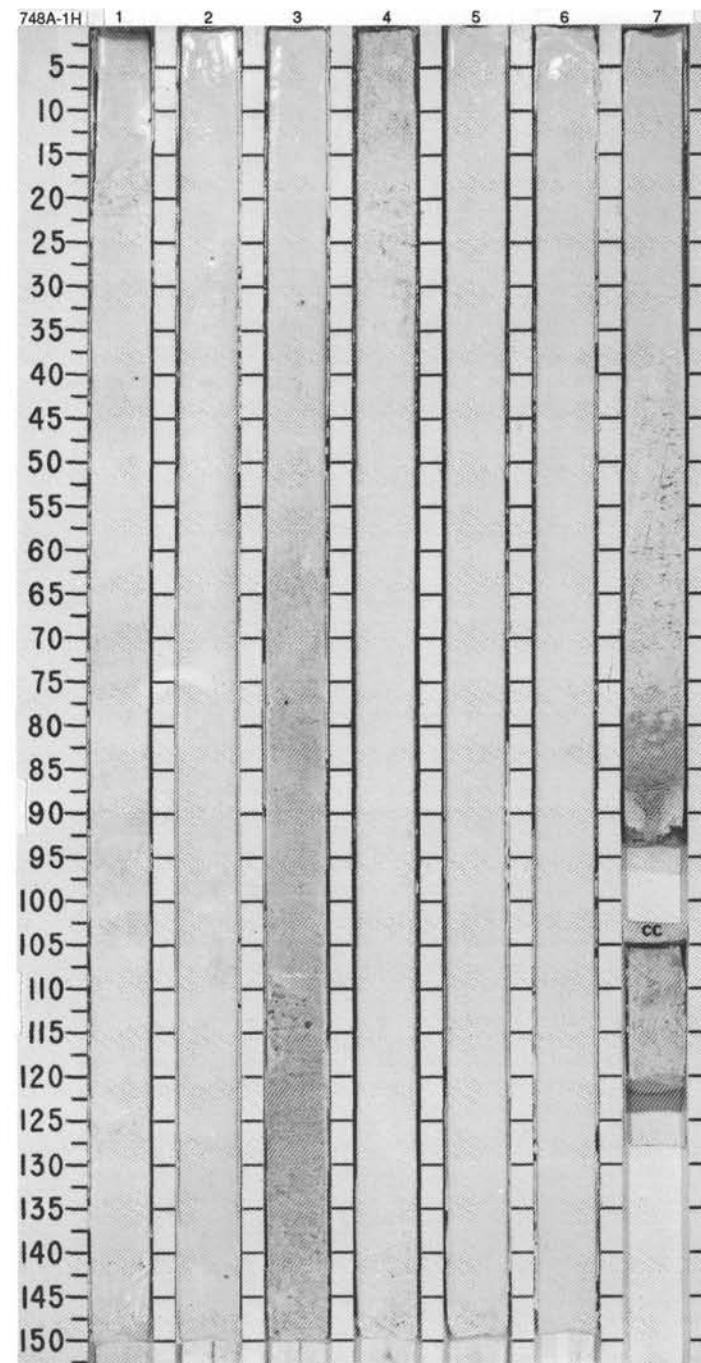
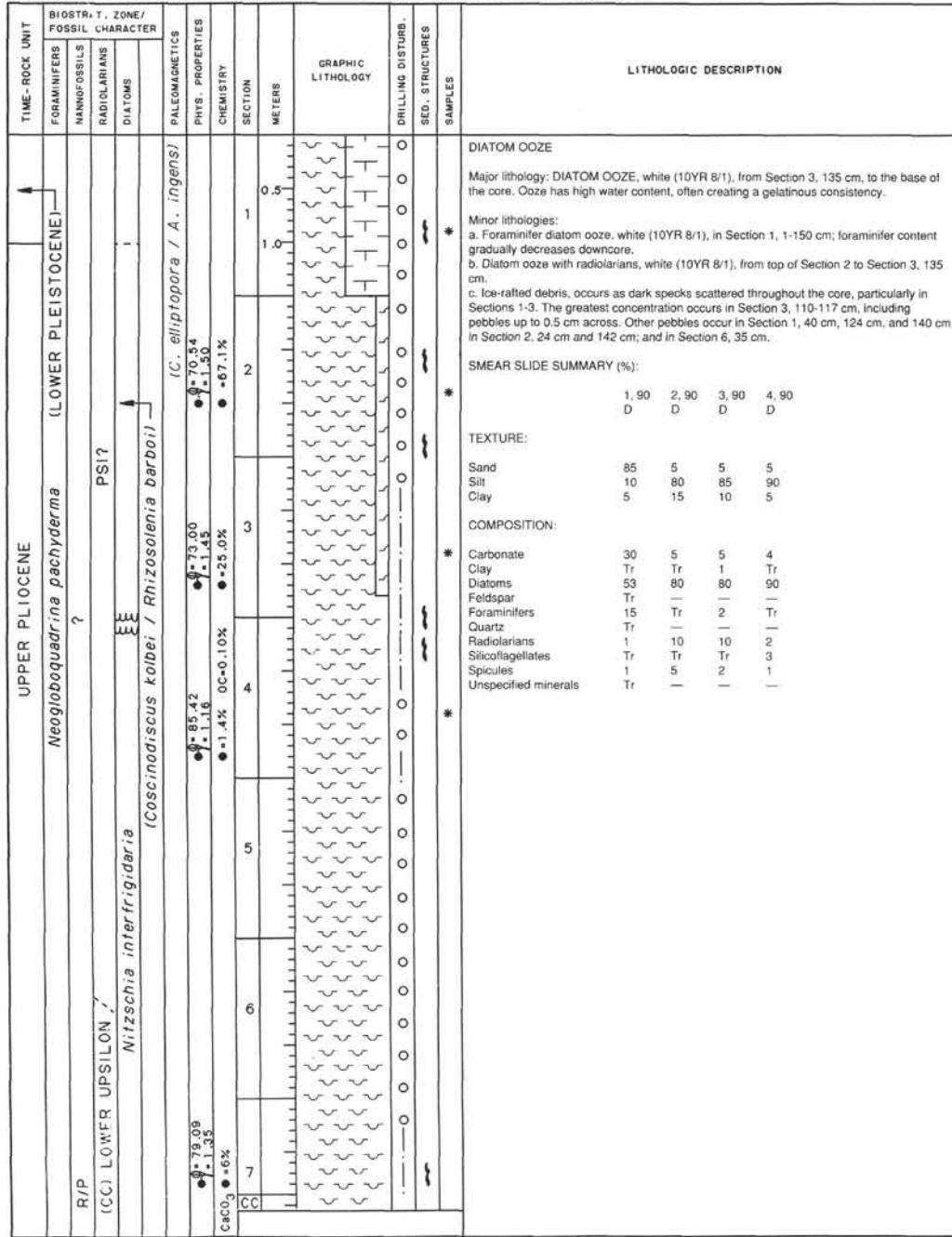
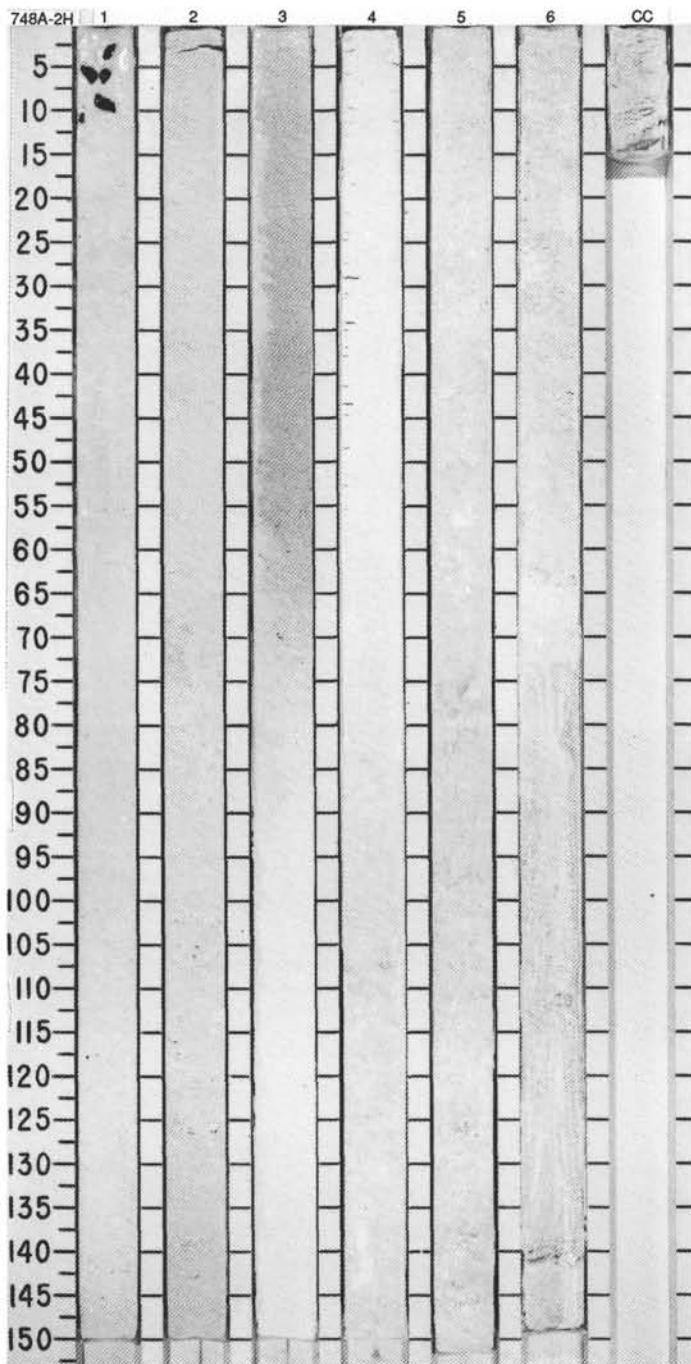
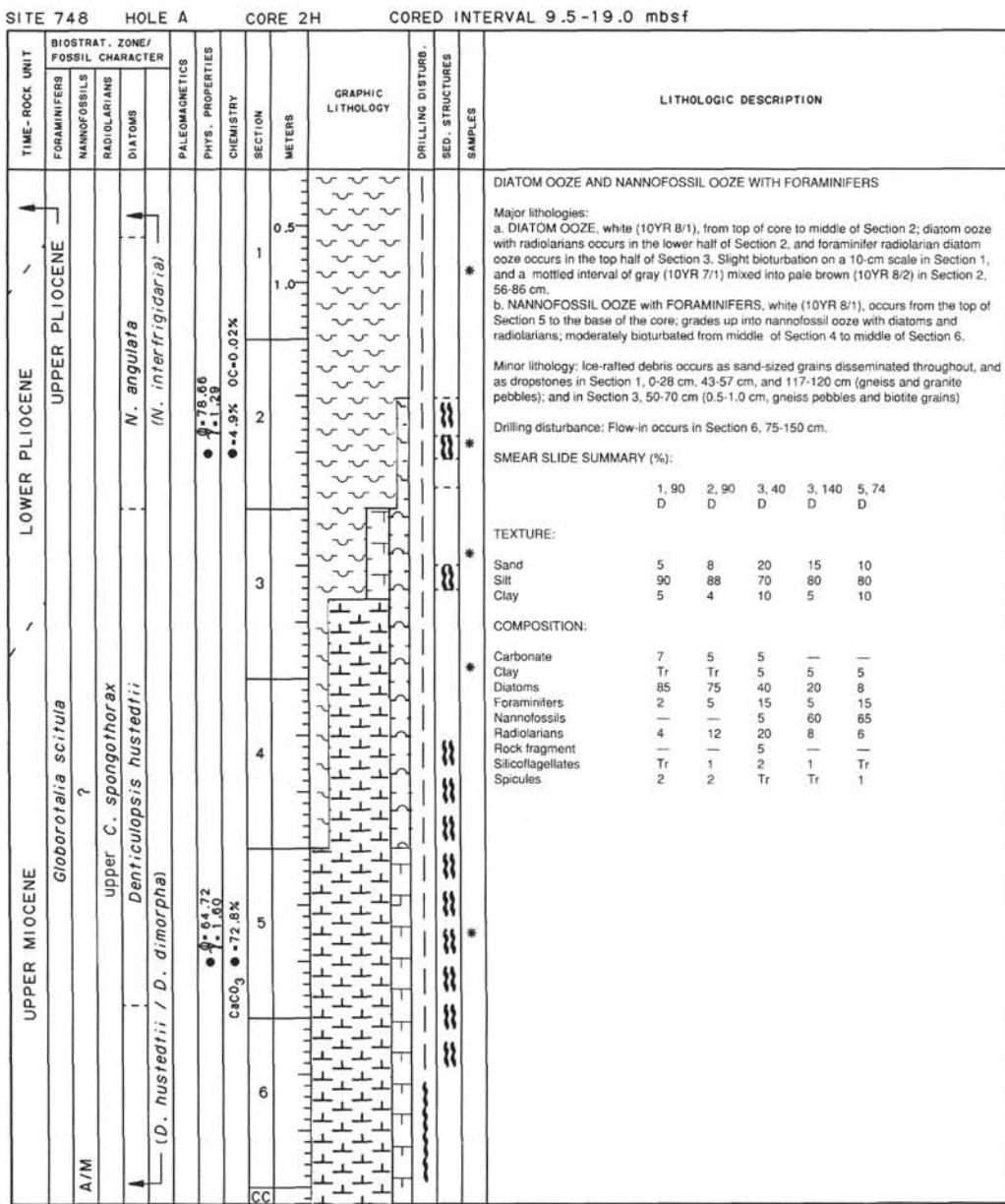


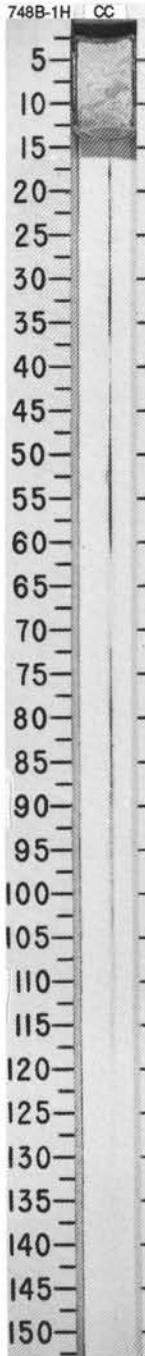
## SITE 748 HOLE A CORE 1H CORED INTERVAL 0.0-9.5 mbsf



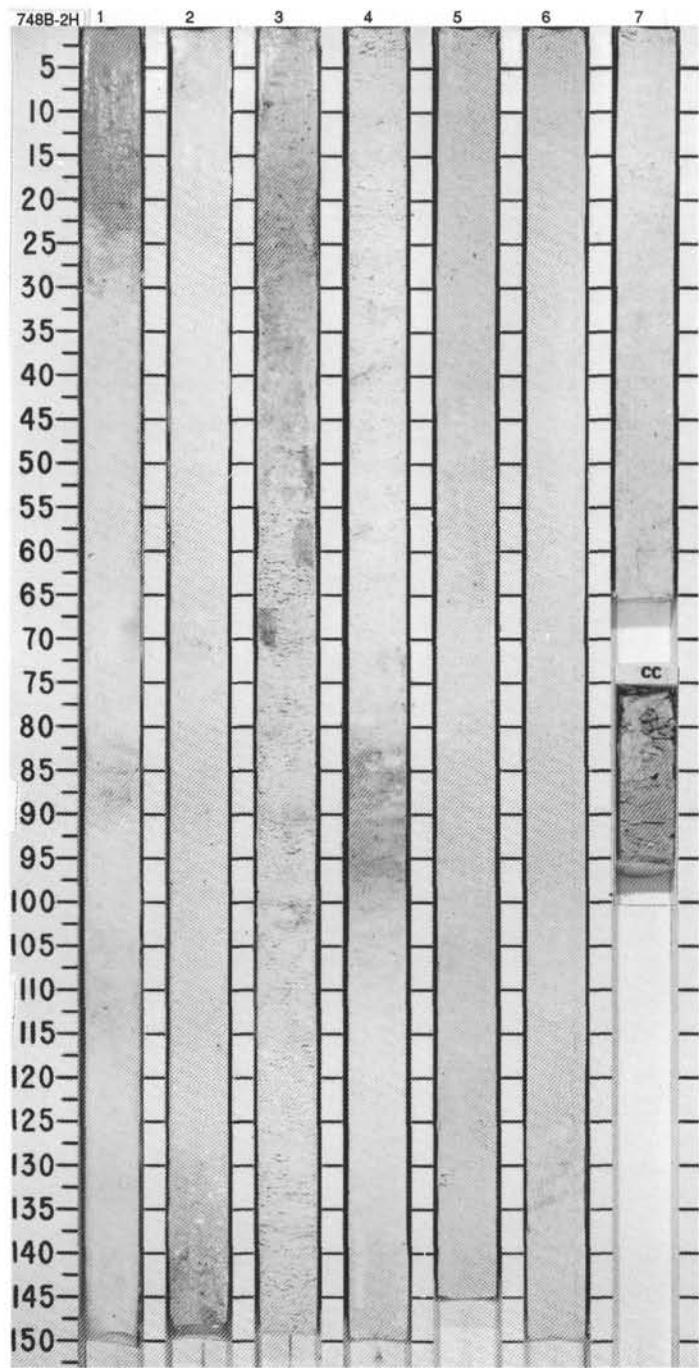
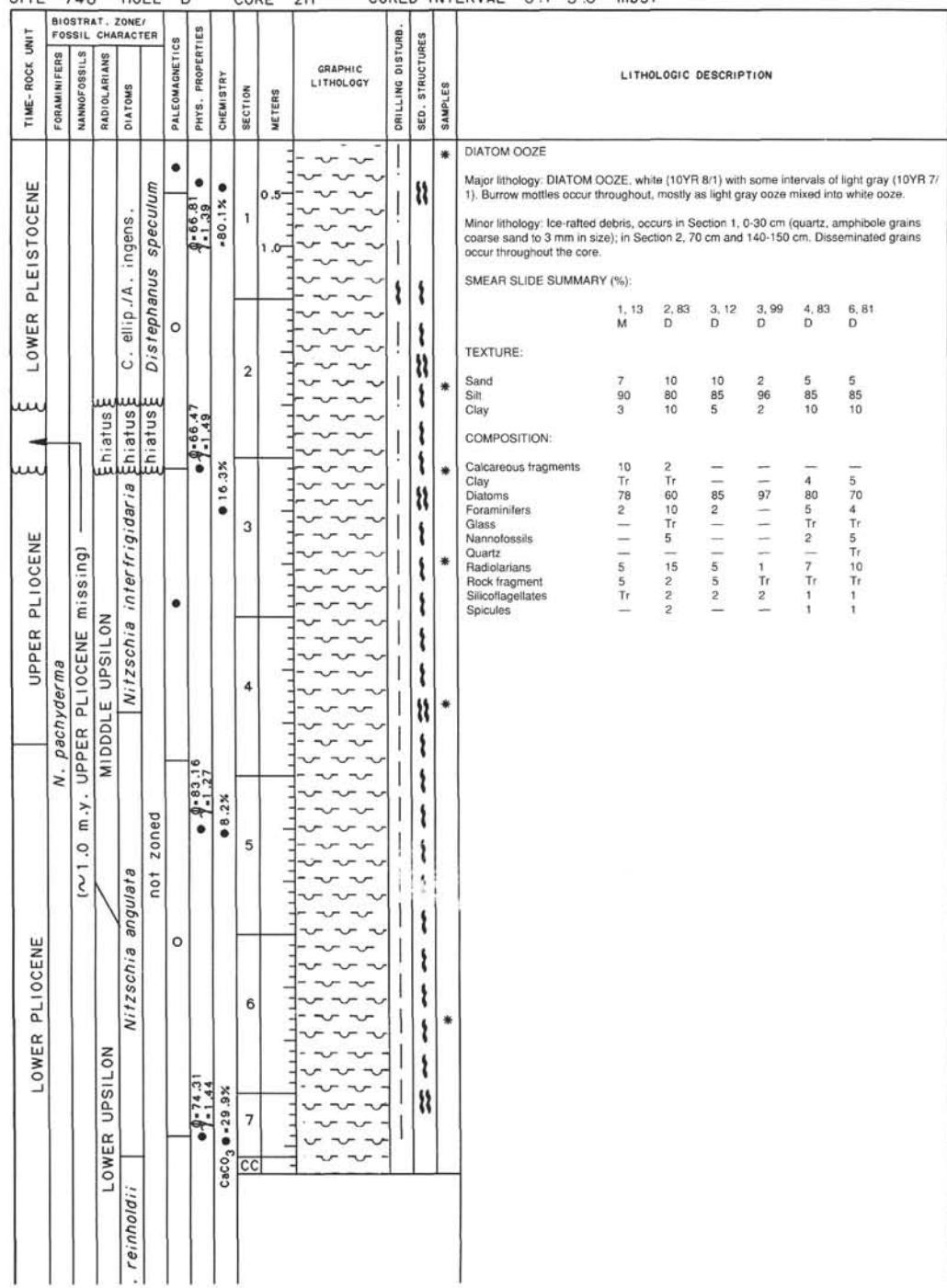


## SITE 748 HOLE B CORE 1H CORED INTERVAL 0.0-0.1 mbsf

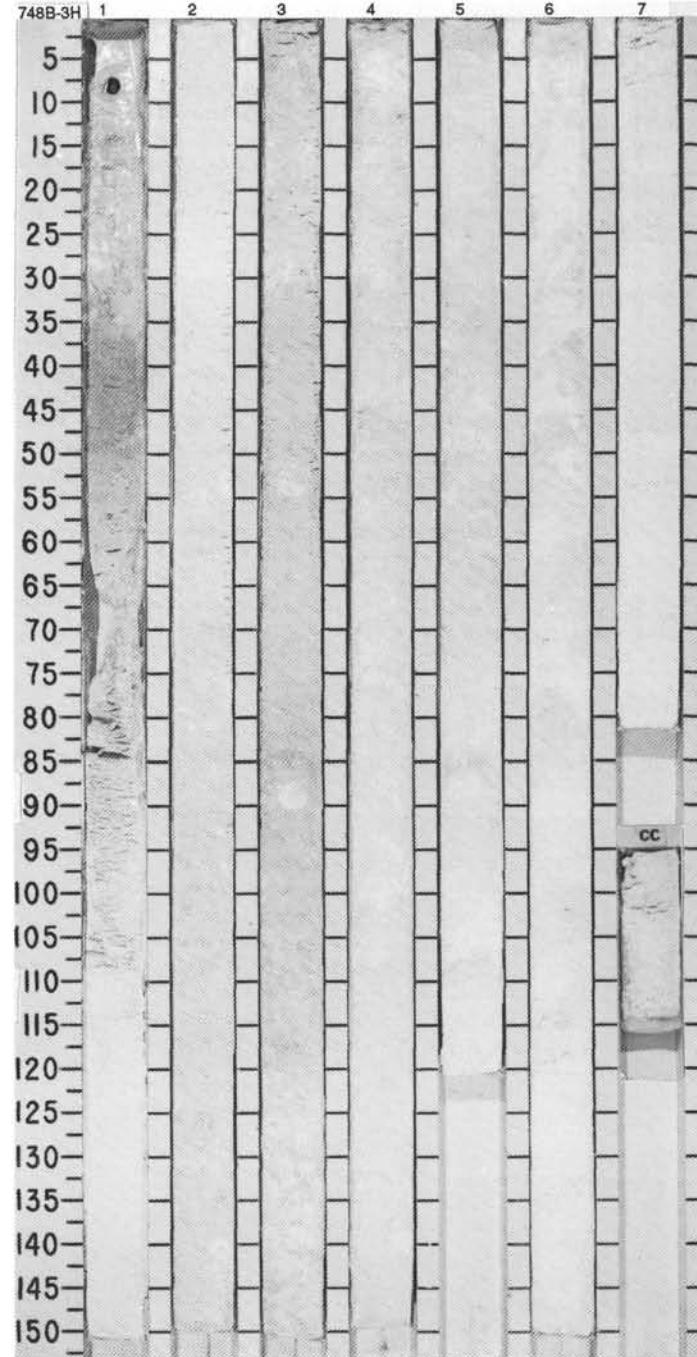
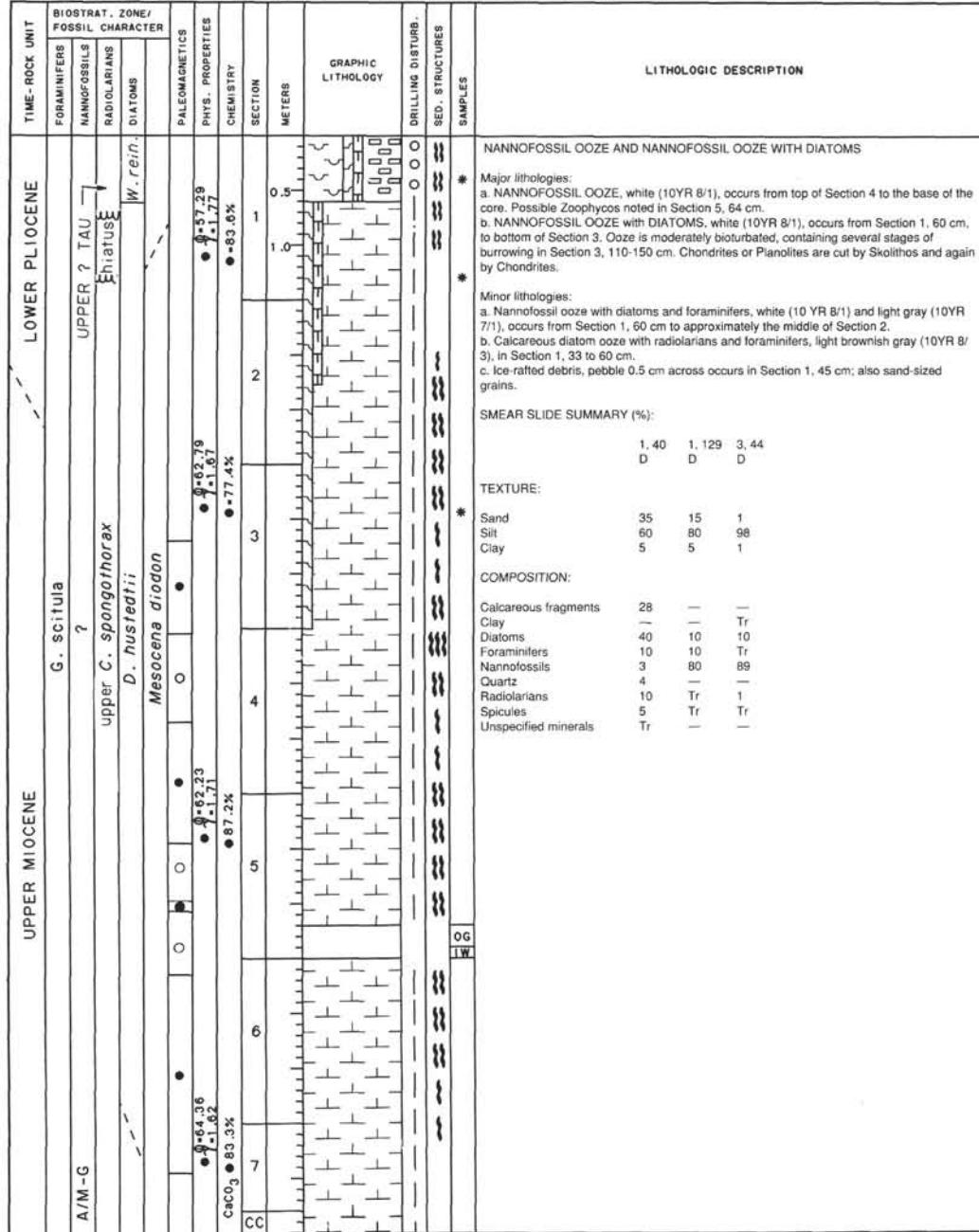
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER								LITHOLOGIC DESCRIPTION				
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	SILICO-FLAGELLATES	PALAEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES
PLIOCENE - PLEISTOCENE <i>Neogloboquadrina pachyderma</i>									CC				
MID CHI or YOUNGER <i>A. ingens</i>													
<i>Distephanus speculum A</i>													
<i>Coscinodiscus elliptopora</i>													



SITE 748 HOLE B CORE 3H CORED INTERVAL 0.1-9.6 mbsf



SITE 748 HOLE B CORE 3H CORED INTERVAL 9.6-19.1 mbsf



## SITE 748 HOLE B CORED INTERVAL 19.1-28.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/FOSSIL CHARACTER	CORE 4H	CORED INTERVAL	LITHOLOGIC DESCRIPTION			
				SILICO-FLAGELLATES	PALAEOMAGNETICS	DRILLING DISTURB.	SED. STRUCTURES
				METERS	SECTION	SAMPLES	
UPPER Miocene							
N. nymphae (an15 - N16)							
?							
A/M							
lower C. spongotorax	Upper C. spongotorax						
D. hustedii - D. dimorpha							
not zoned							
?	O	0?	?				
•	•	•	•				
•	•	•	•				
•	•	•	•				
•	•	•	•				
•	•	•	•				
•	•	•	•				
CaCO <sub>3</sub> • -90.1%							
5							
6							
7							
CC							

GRAPHIC LITHOLOGY

NANNOFOSSIL OOZE WITH DIATOMS

Major lithology: NANNOFOSSIL OOZE with DIATOMS, white (whiter than 10YR 8/1). Lithology is mostly homogeneous, with few signs of disturbance. Mottling evident in Section 1, 42-46 cm; Section 2, 30-70 cm; Section 4, 97-104 cm and 134-138 cm; Section 5, 31-35 cm, 67-76 cm, and 79-87 cm. Pyrite occurs in Section 4, 119-120 cm. Suggestion of horizontal lamination in Section 5, 110-136. Bioturbation is slight throughout core except as noted.

Drilling disturbance: Slight except in the CC, which has flow-in.

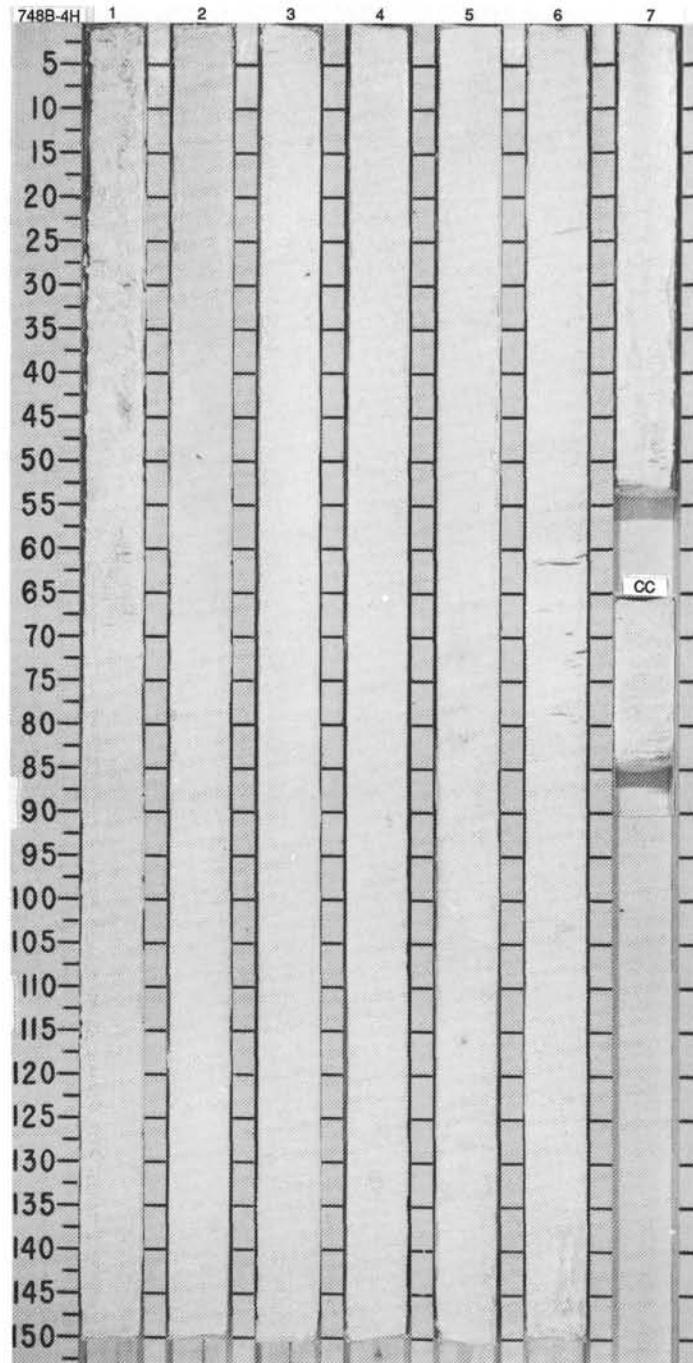
SMEAR SLIDE SUMMARY (%):

	1, 43	1, 77	5, 84	5, 119
	M	D	D	M
Sand	6	—	—	1
Silt	91	100	100	97
Clay	3	—	—	2

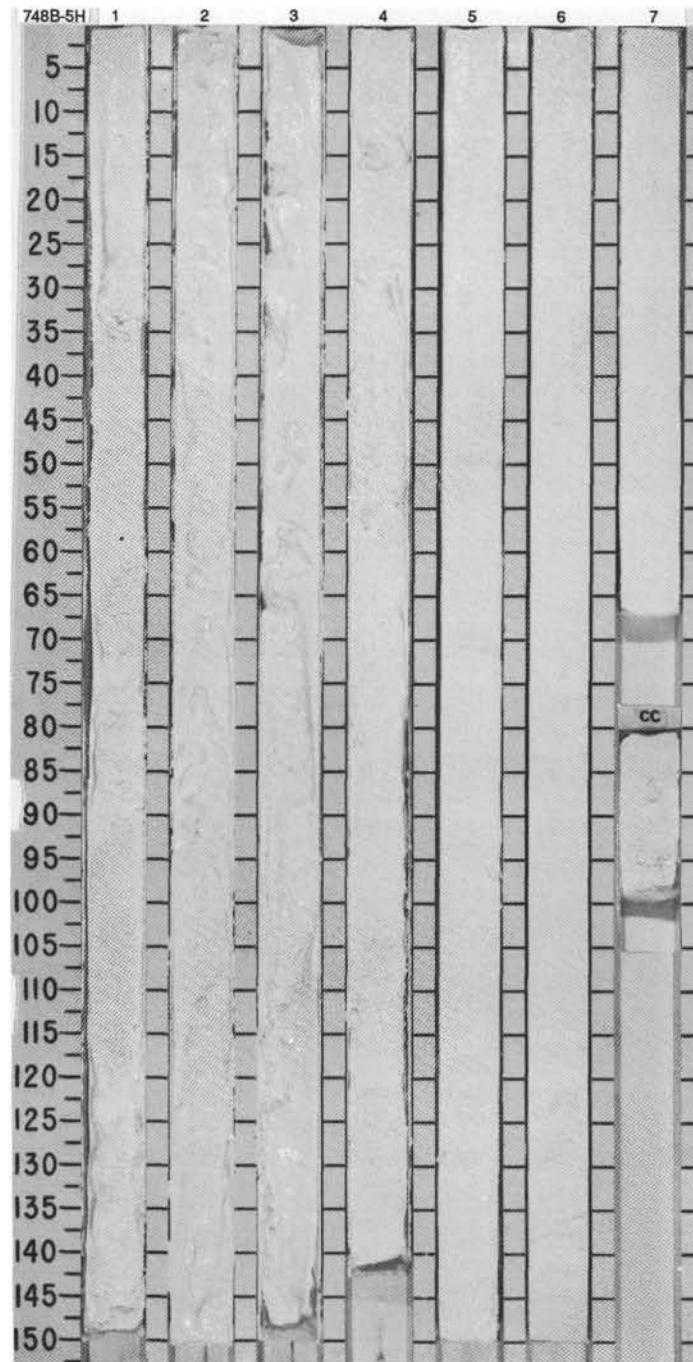
TEXTURE:

Diatom	20	20	15	8
Foraminifers	1	Tr	Tr	Tr
Nannofossils	77	80	85	91
Pyrite	—	—	—	1
Radiolarians	1	Tr	Tr	Tr
Silicoflagellates	1	—	—	Tr

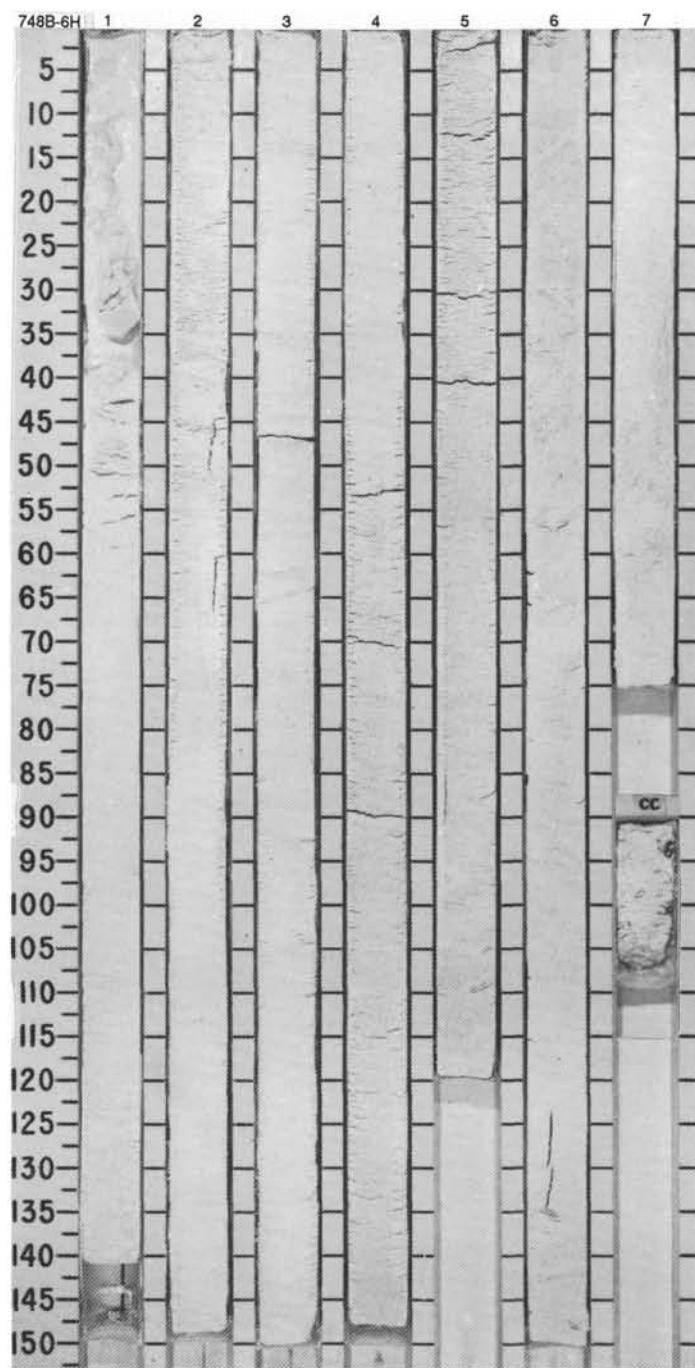
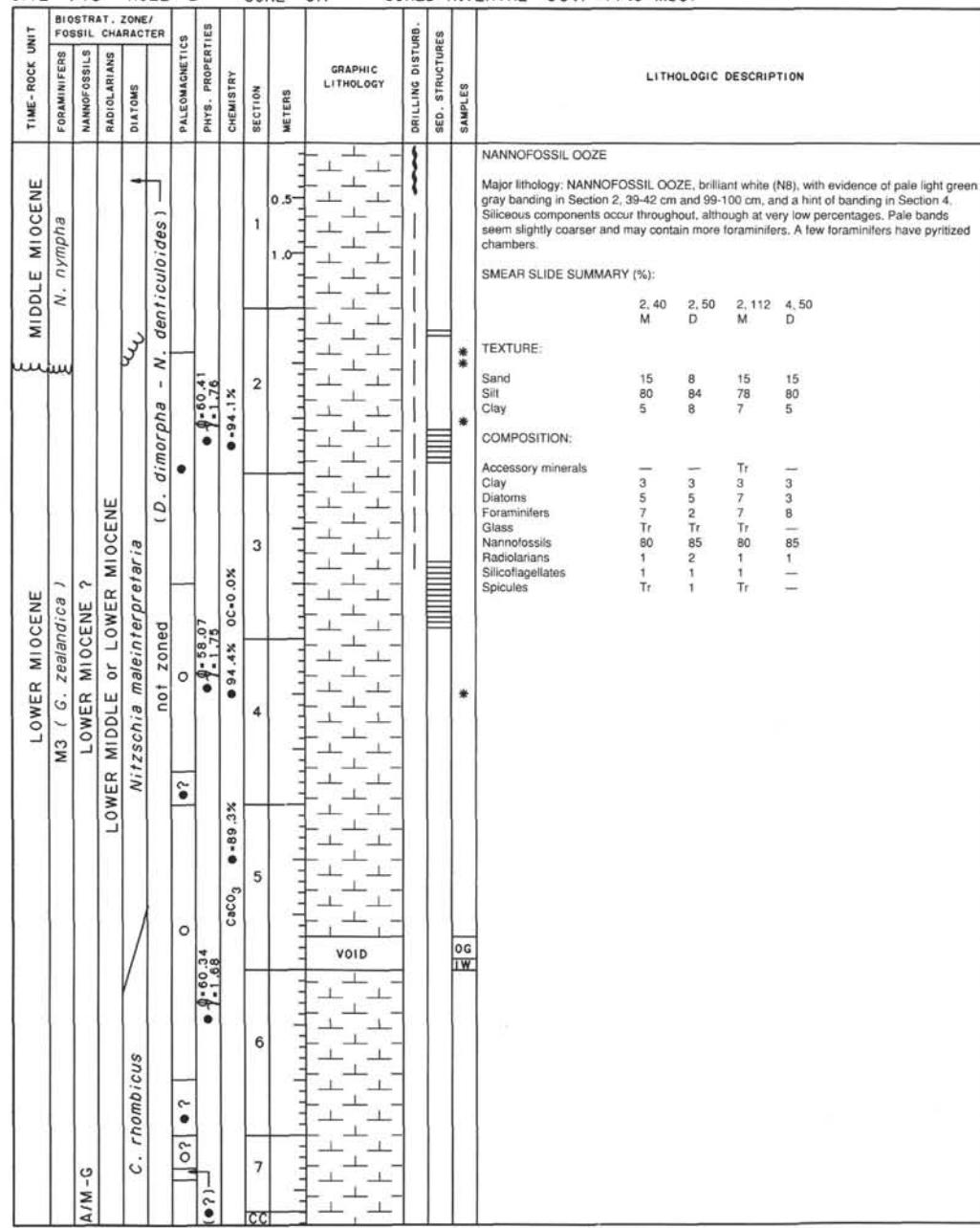
COMPOSITION:



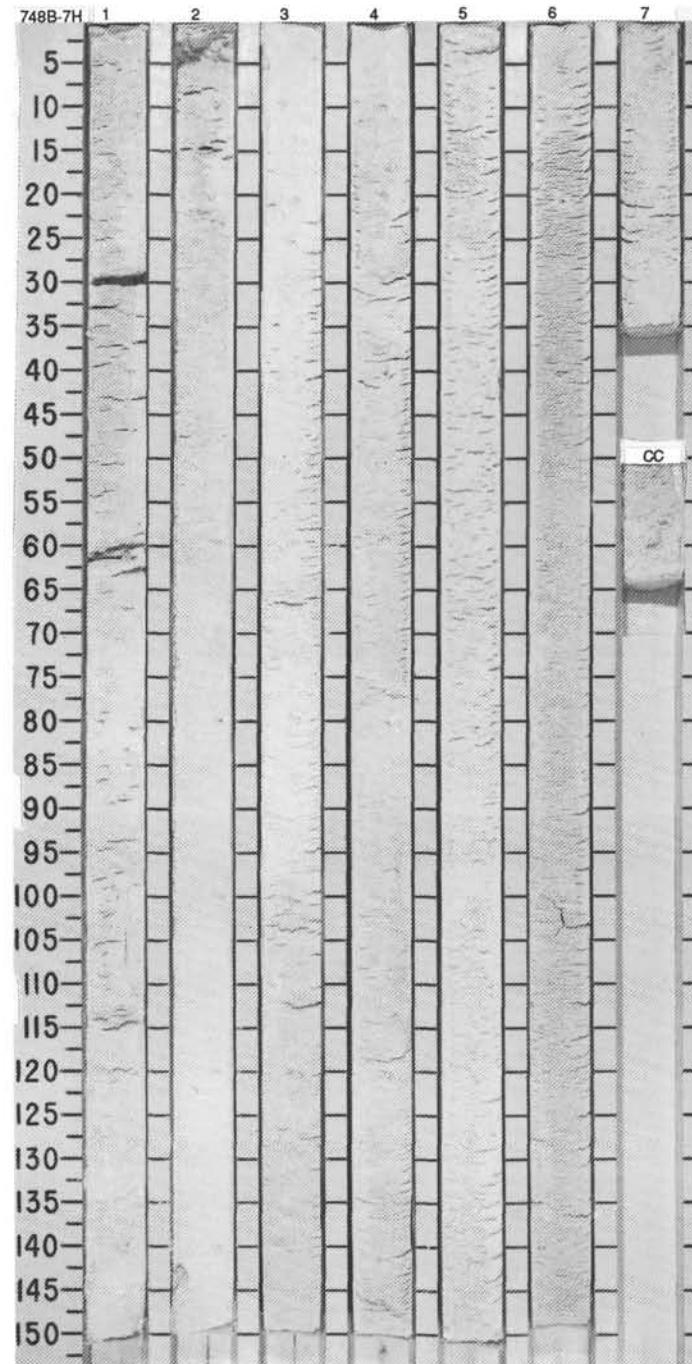
SITE 748 HOLE B CORE 5H CORED INTERVAL 28.6-38.1 mbsf



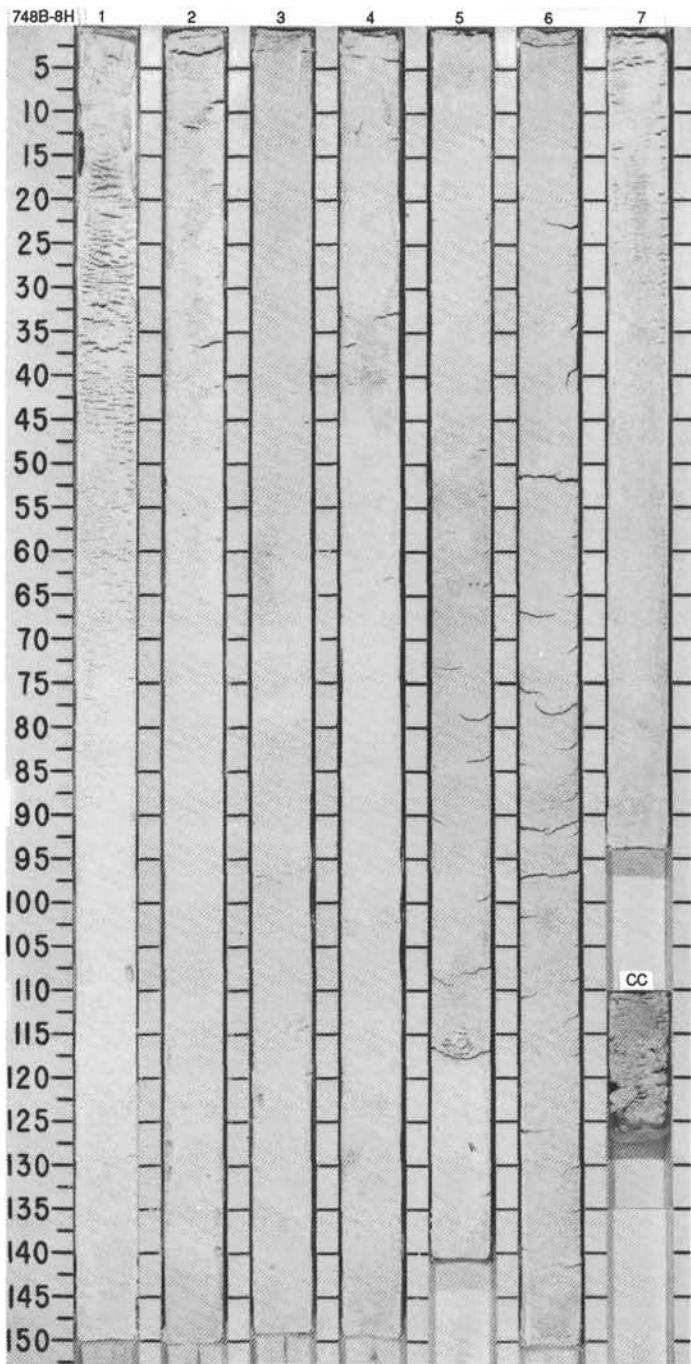
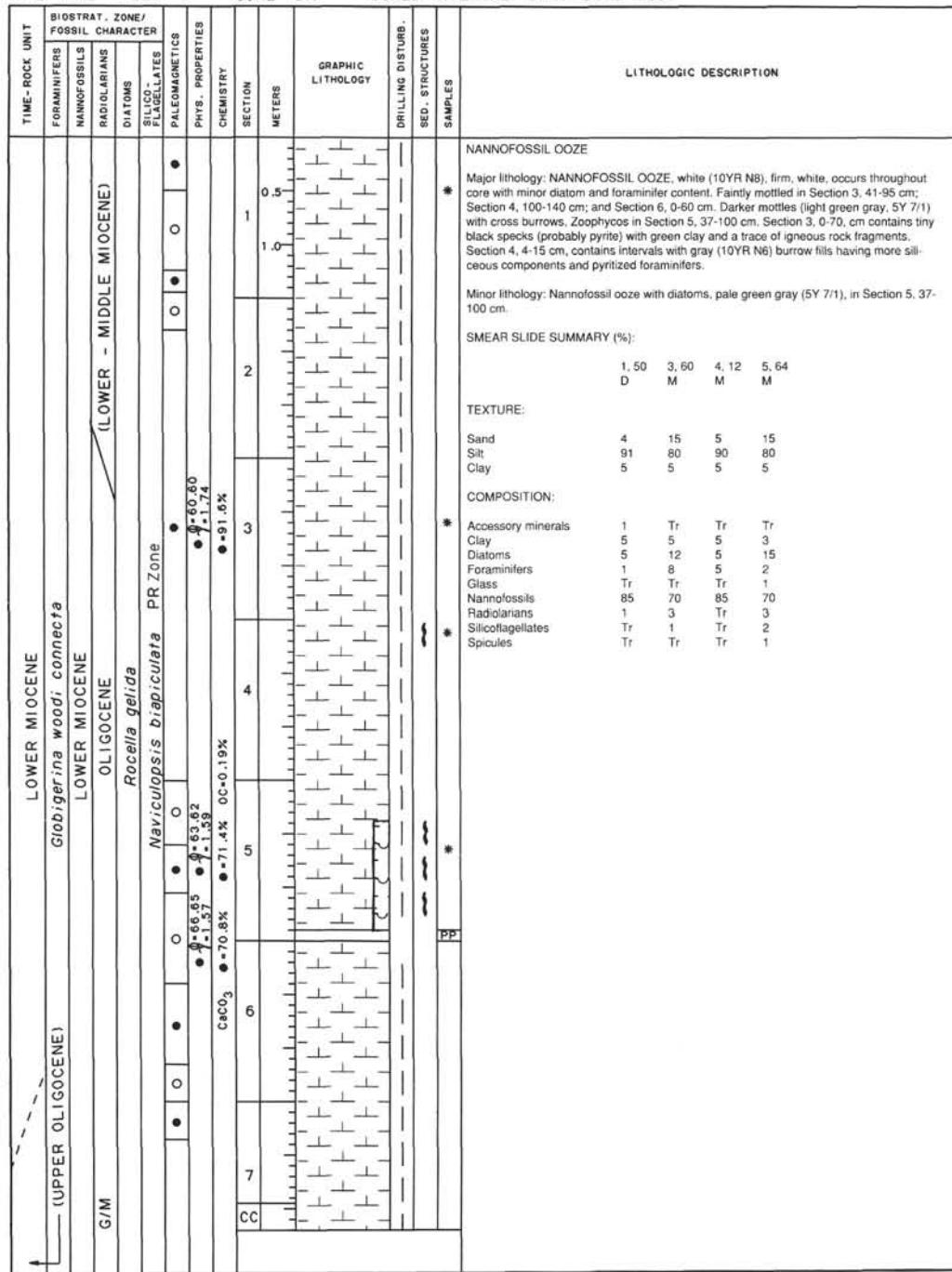
SITE 748 HOLE B CORE 6H CORED INTERVAL 38.1-47.6 mbst



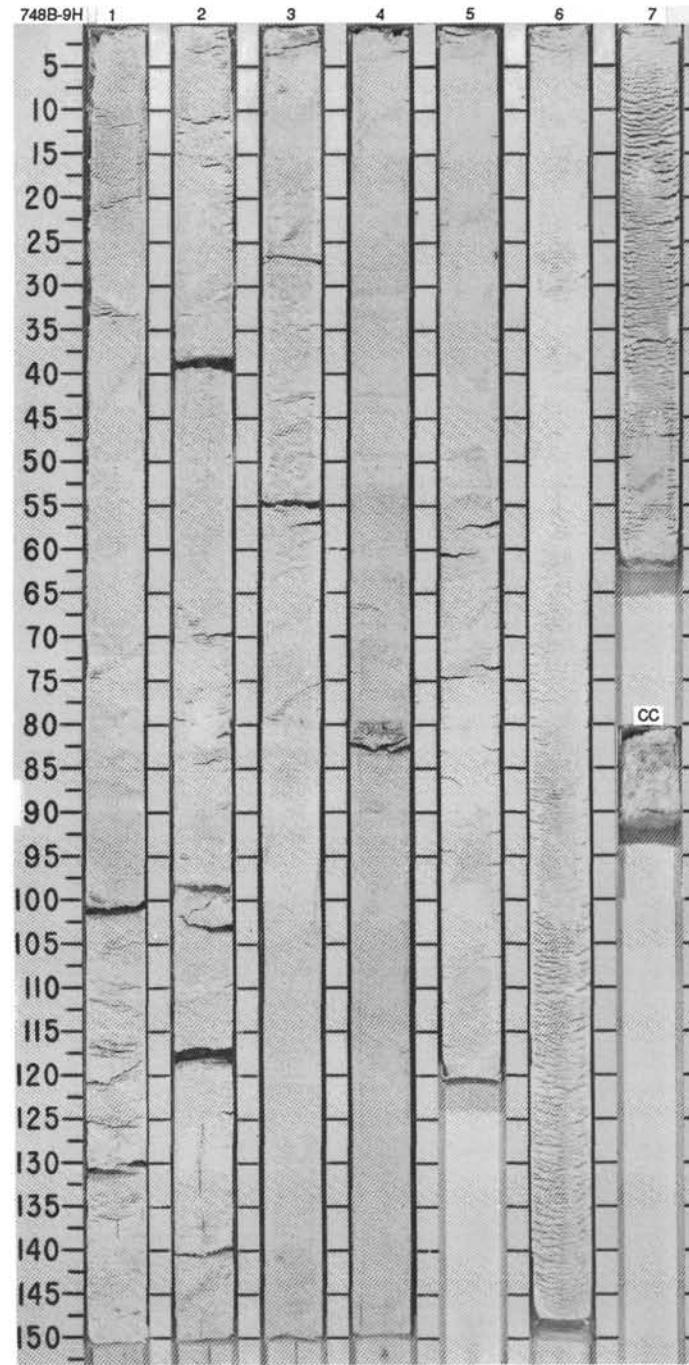
SITE 748 HOLE B CORE 7H CORED INTERVAL 47.6-57.1 mbsf



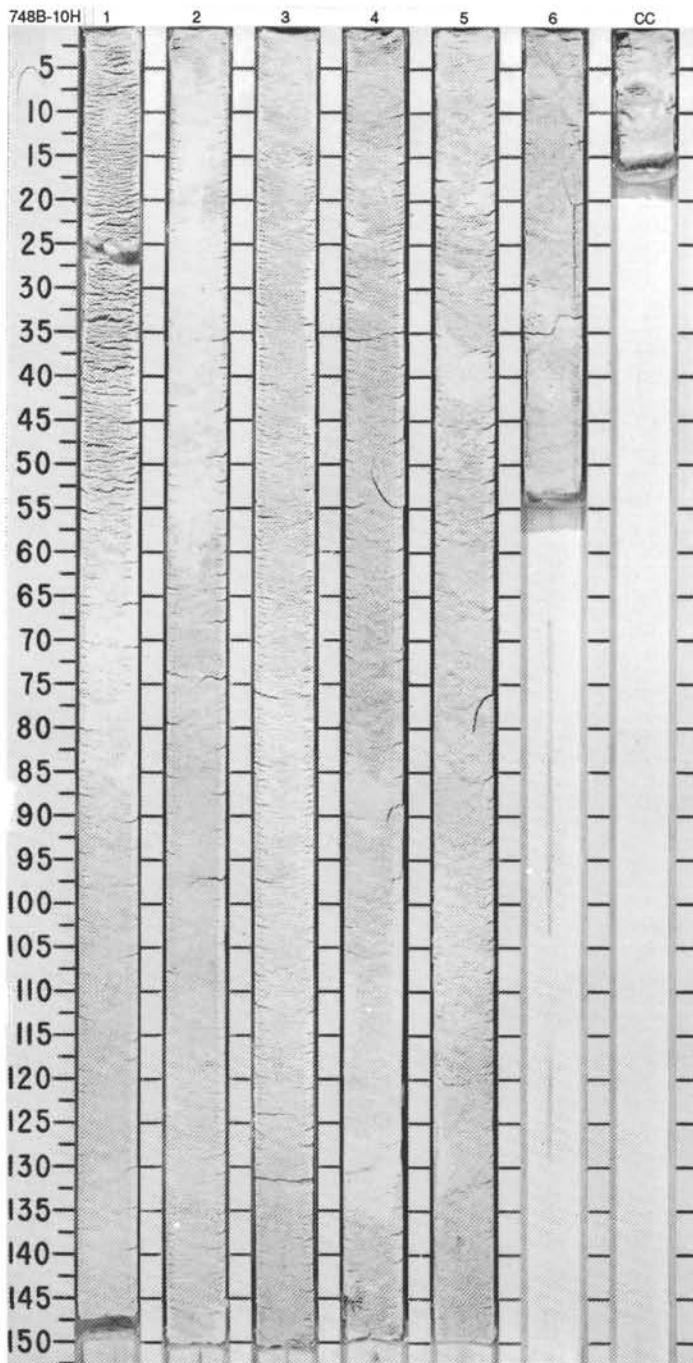
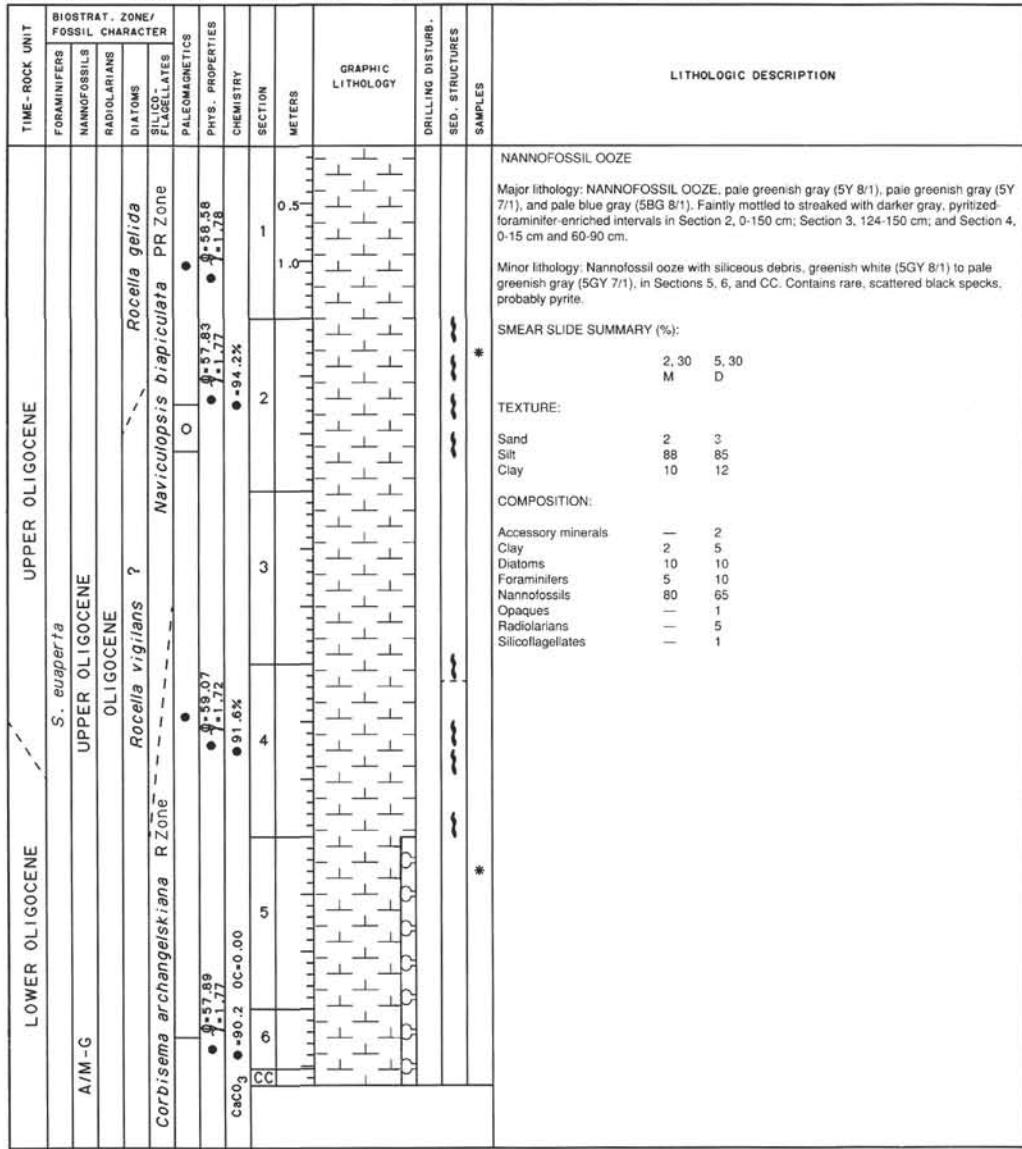
SITE 748 HOLE B CORE 8H CORED INTERVAL 57.1-66.6 mbsf



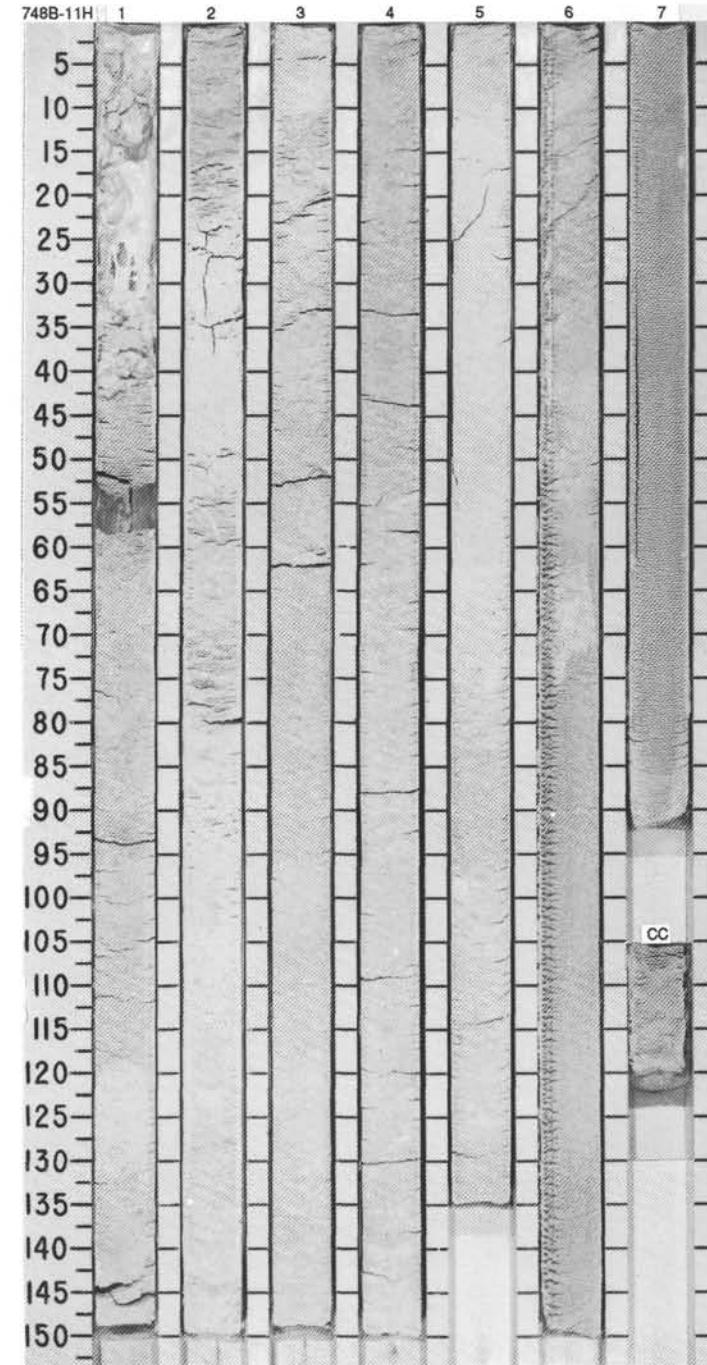
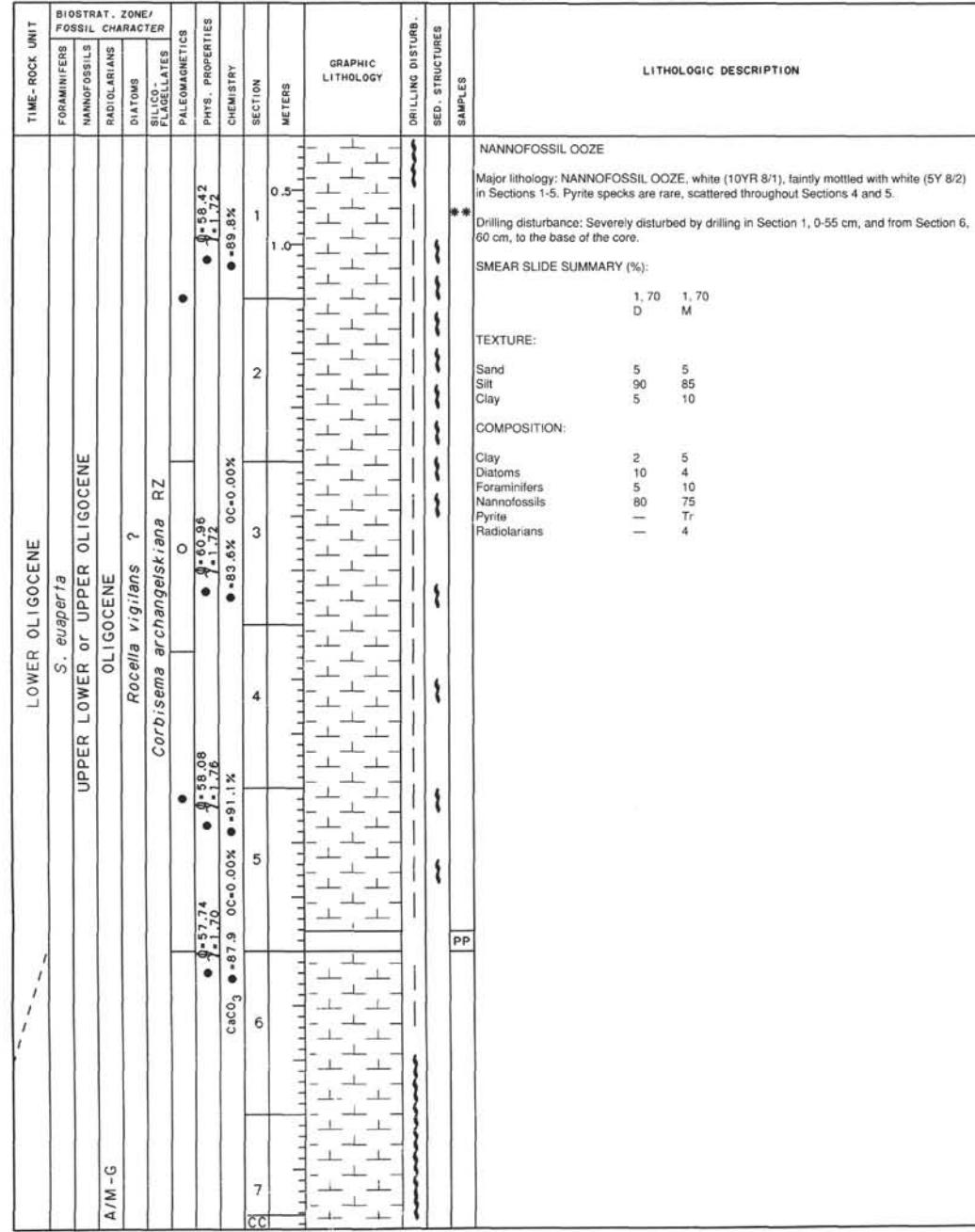
SITE 748 HOLE B CORE 9H CORED INTERVAL 66.6-76.1 mbsf



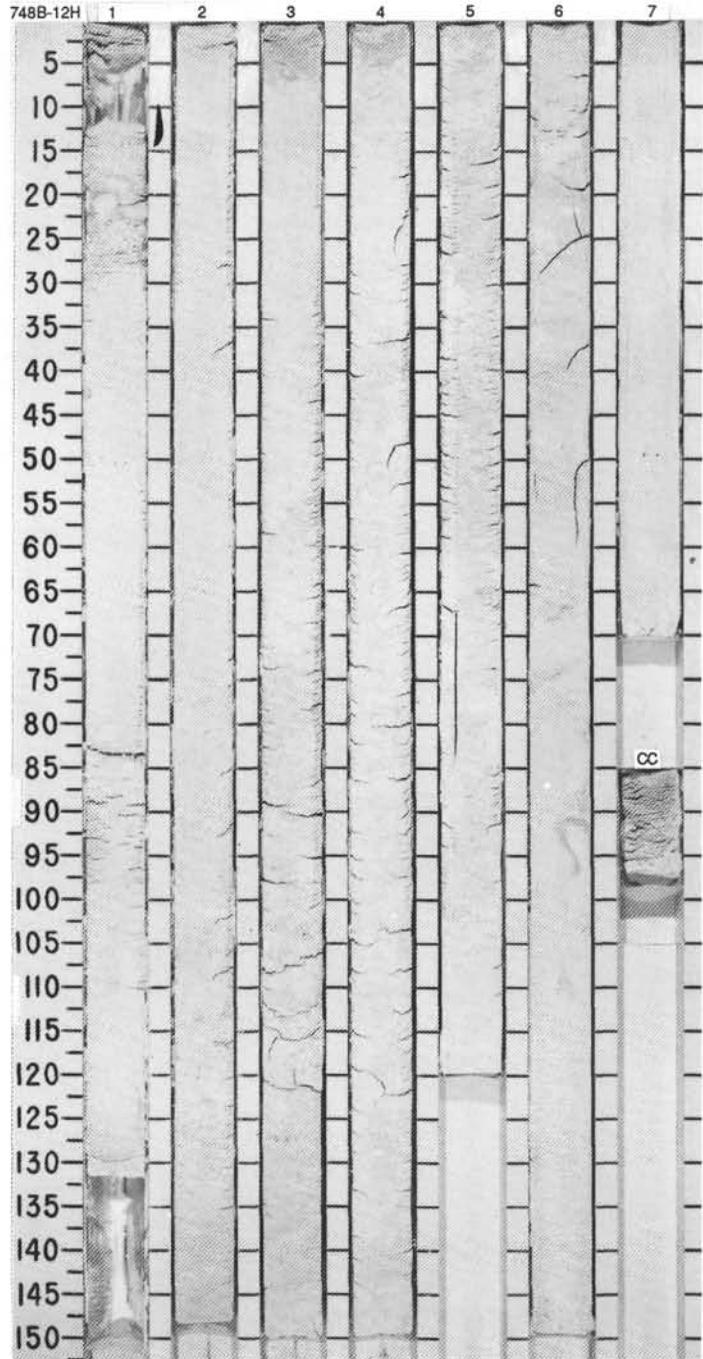
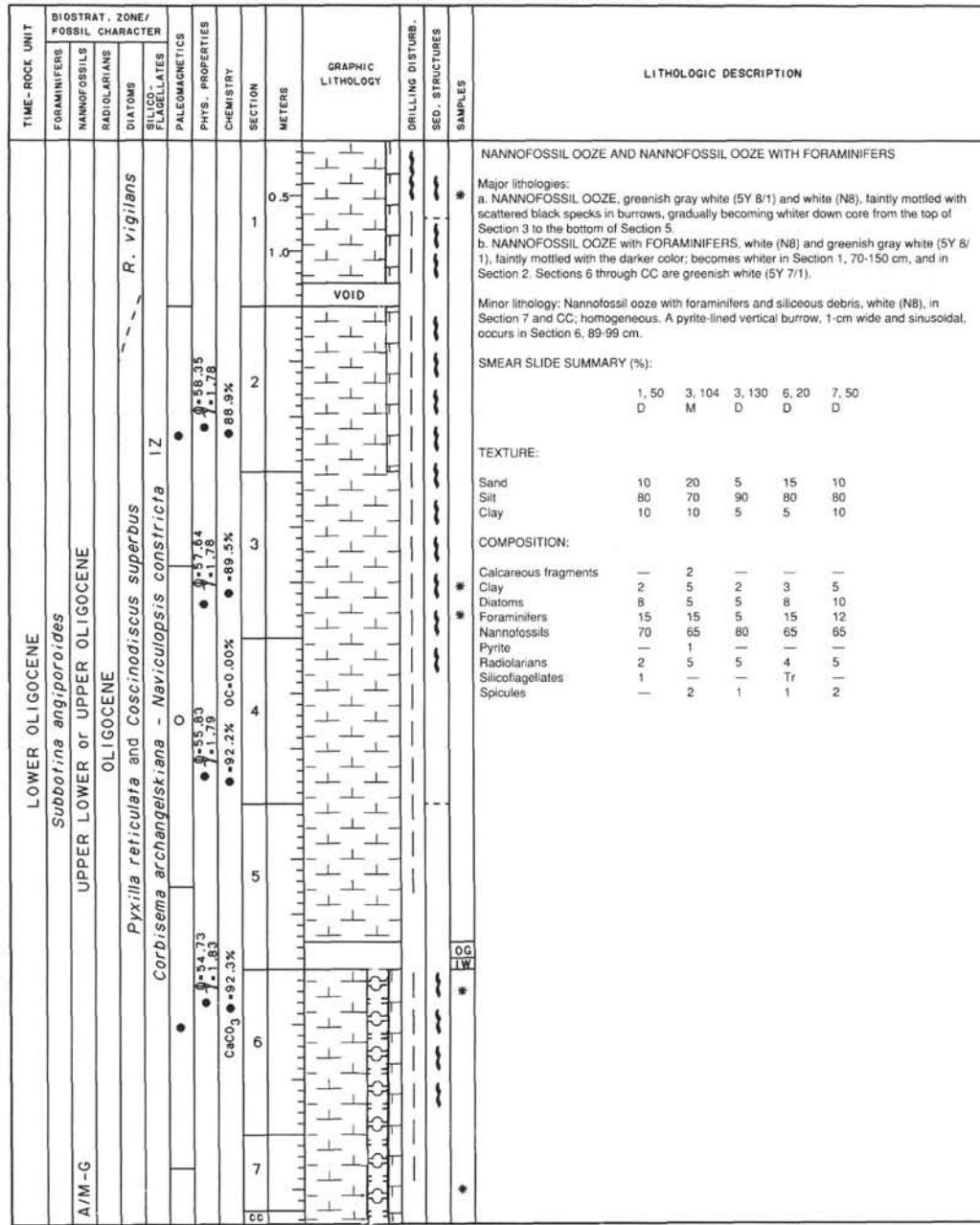
SITE 748 HOLE B CORE 1OH CORED INTERVAL 76.1-85.6 mbsf



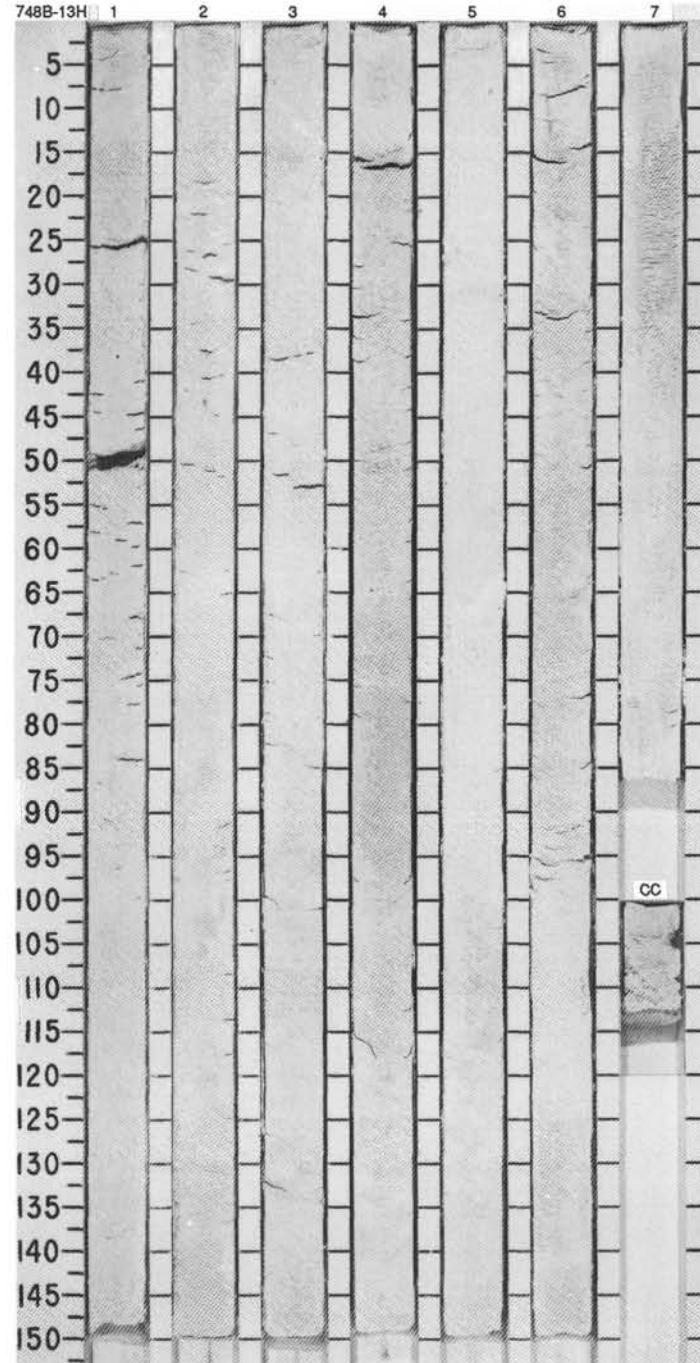
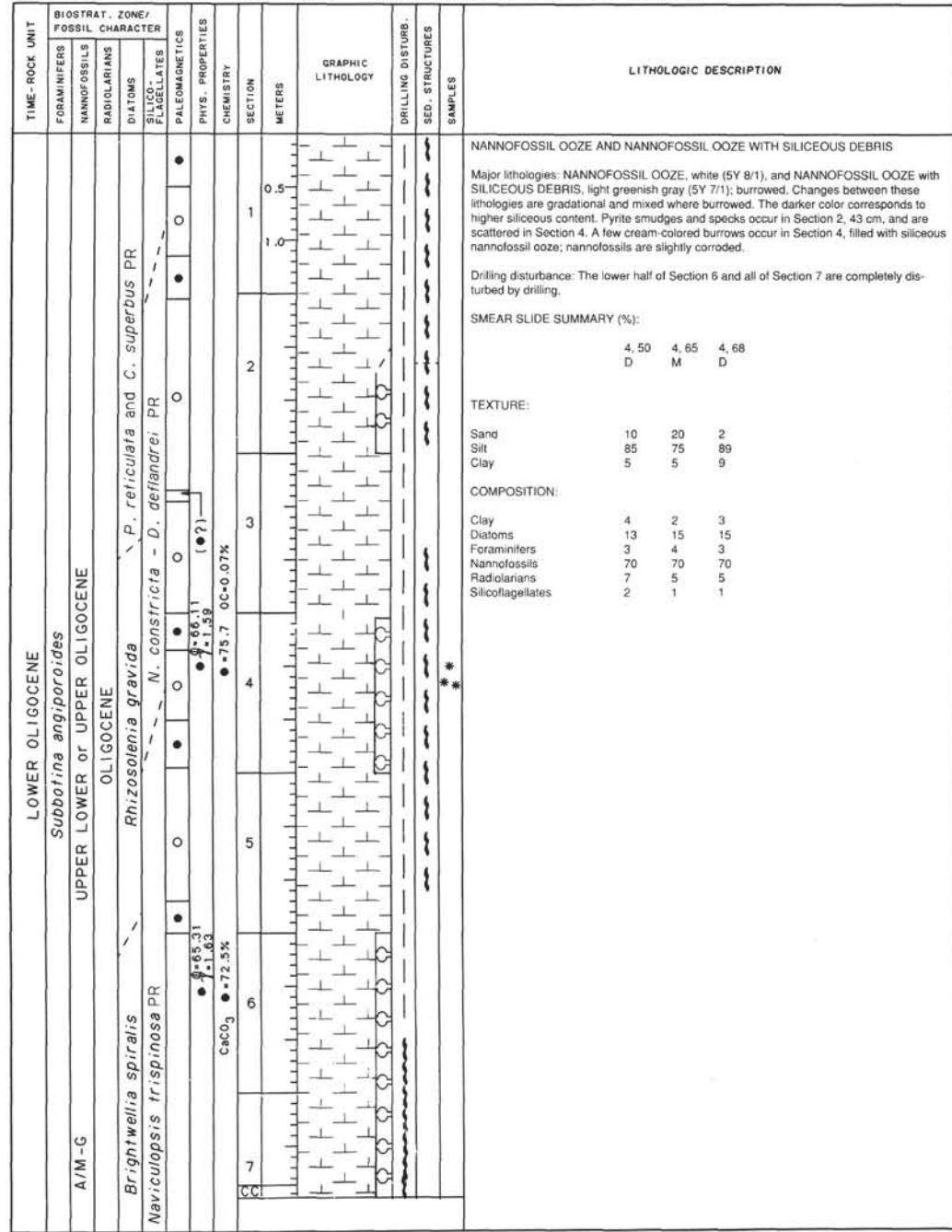
## SITE 748 HOLE B CORED INTERVAL 85.6-95.1 mbsf



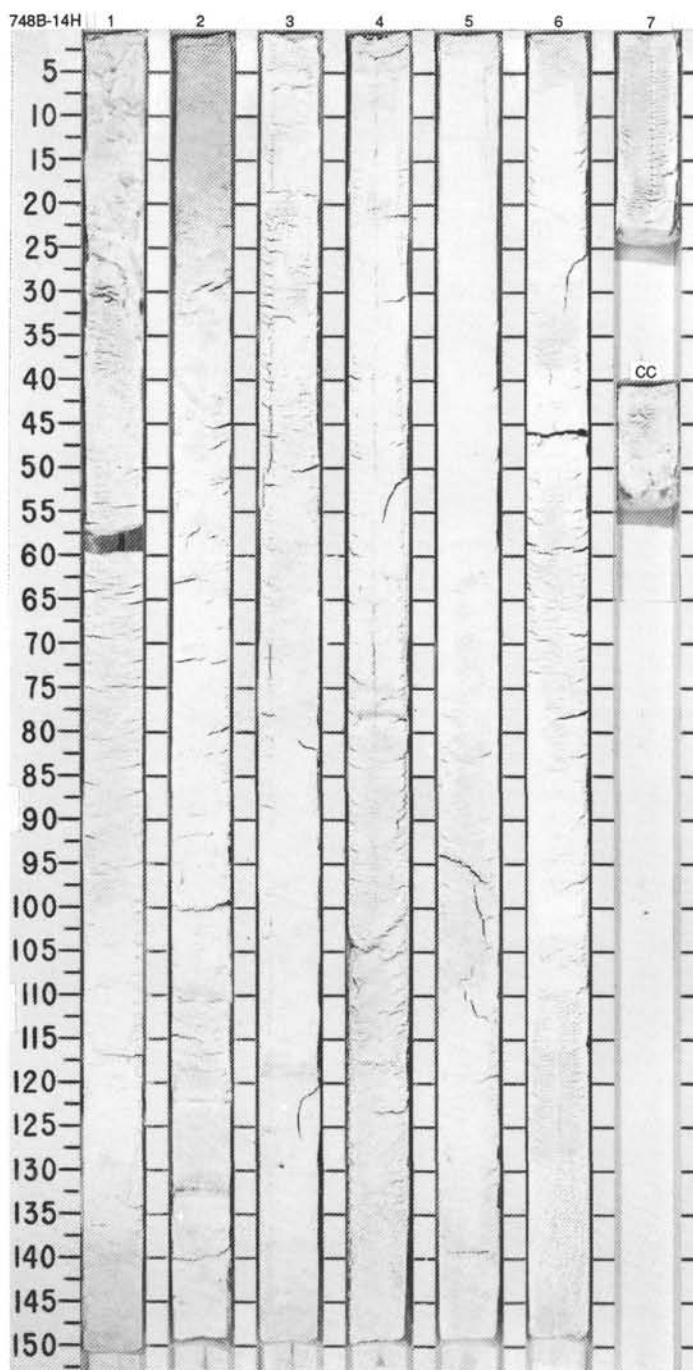
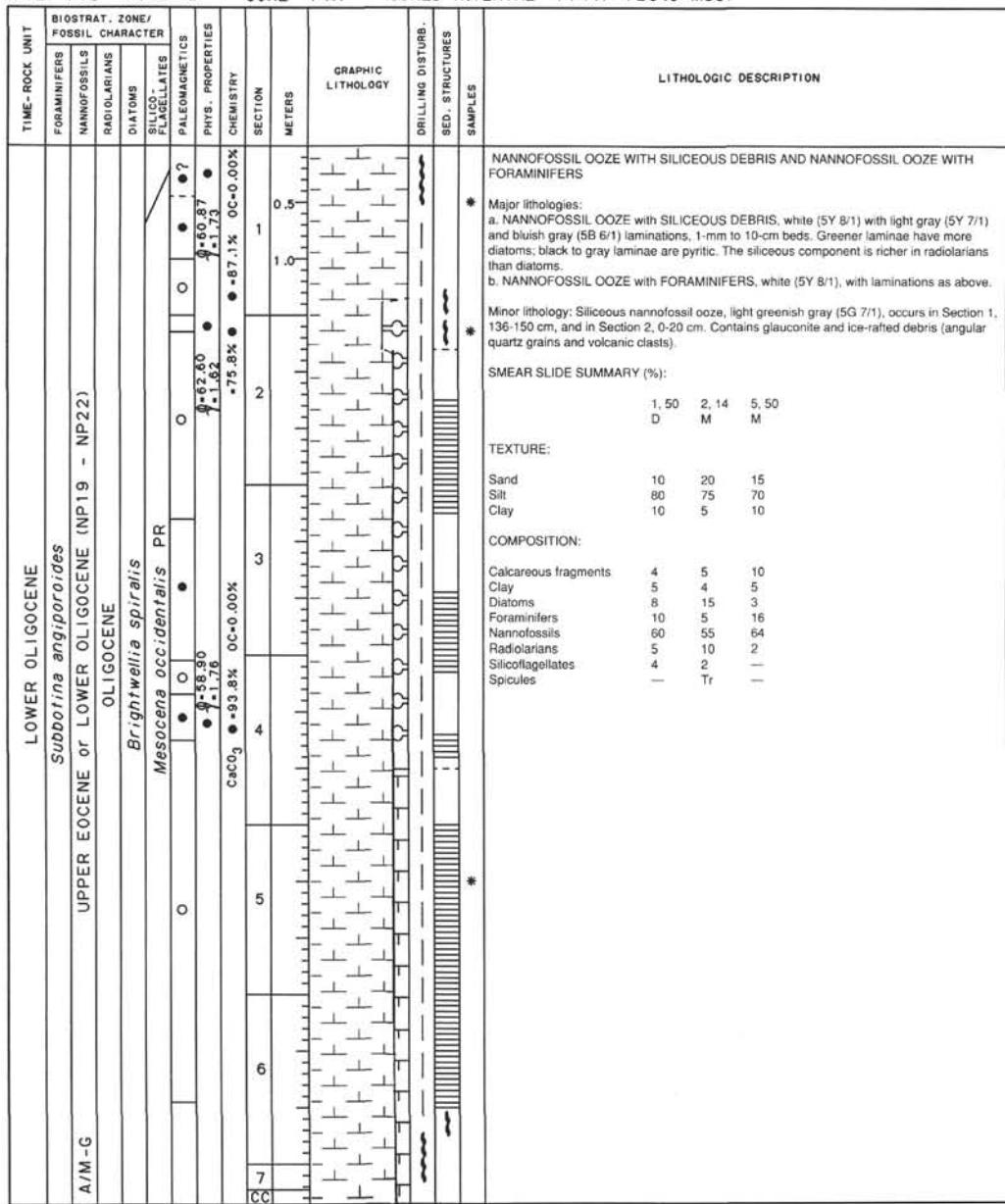
SITE 748 HOLE B CORE 12H CORED INTERVAL 95.1-104.6 mbsf



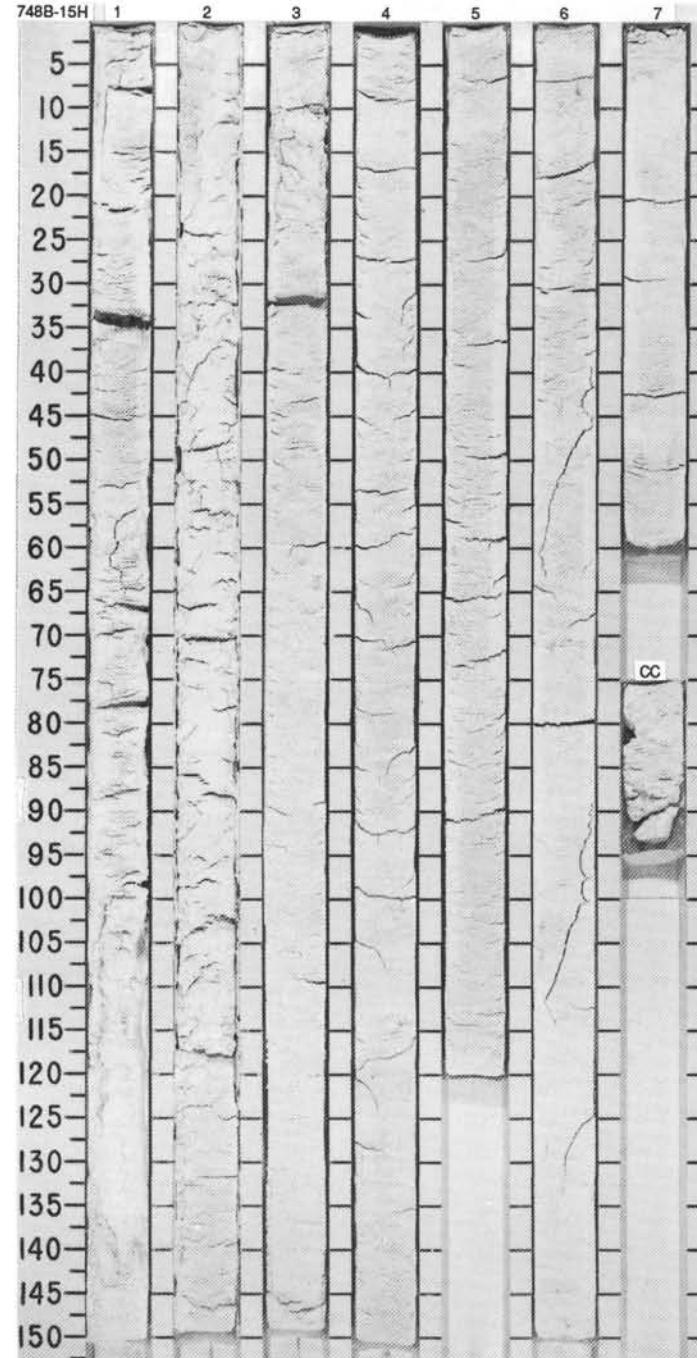
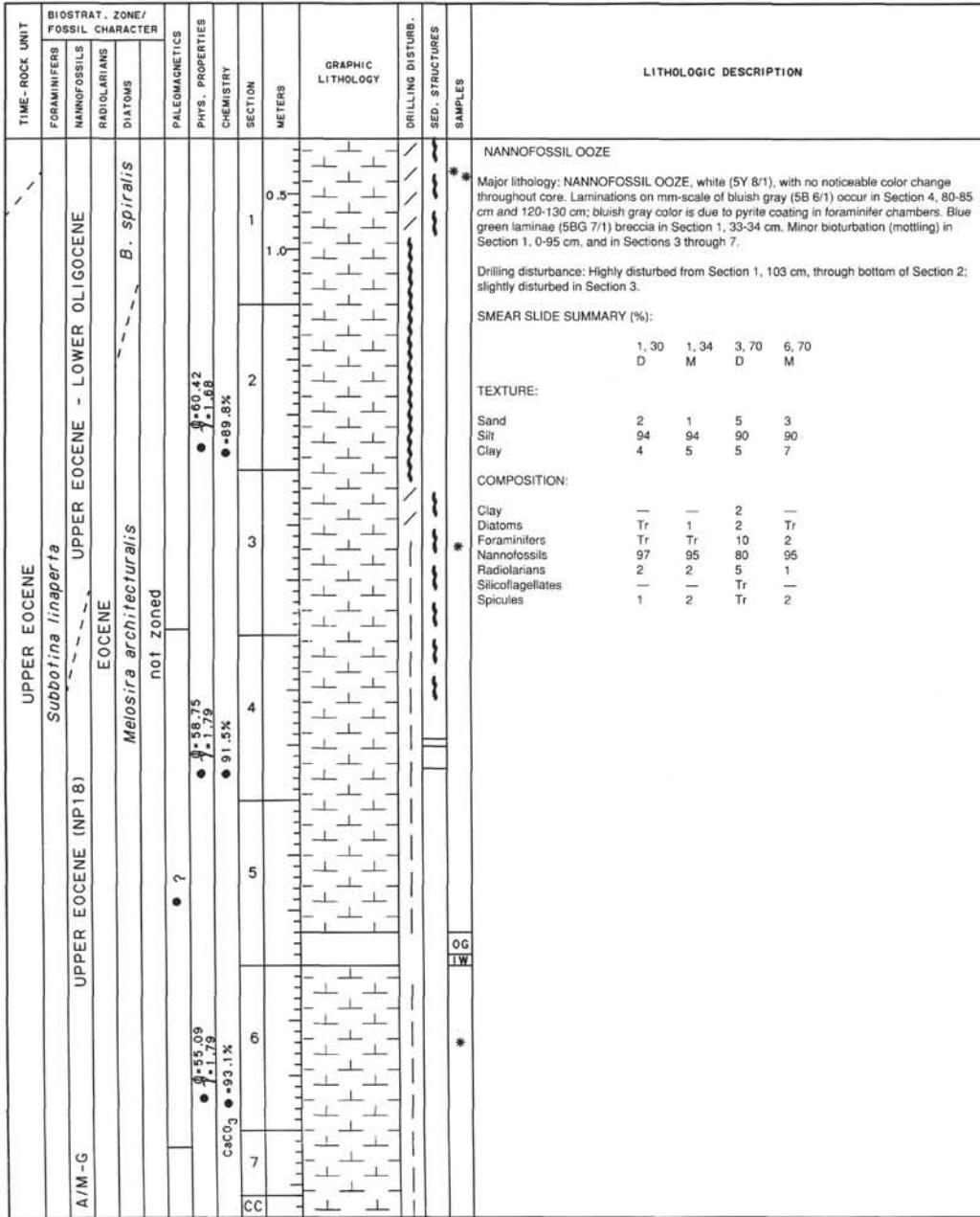
SITE 748 HOLE B CORE 13H CORED INTERVAL 104.6-114.1 mbsf



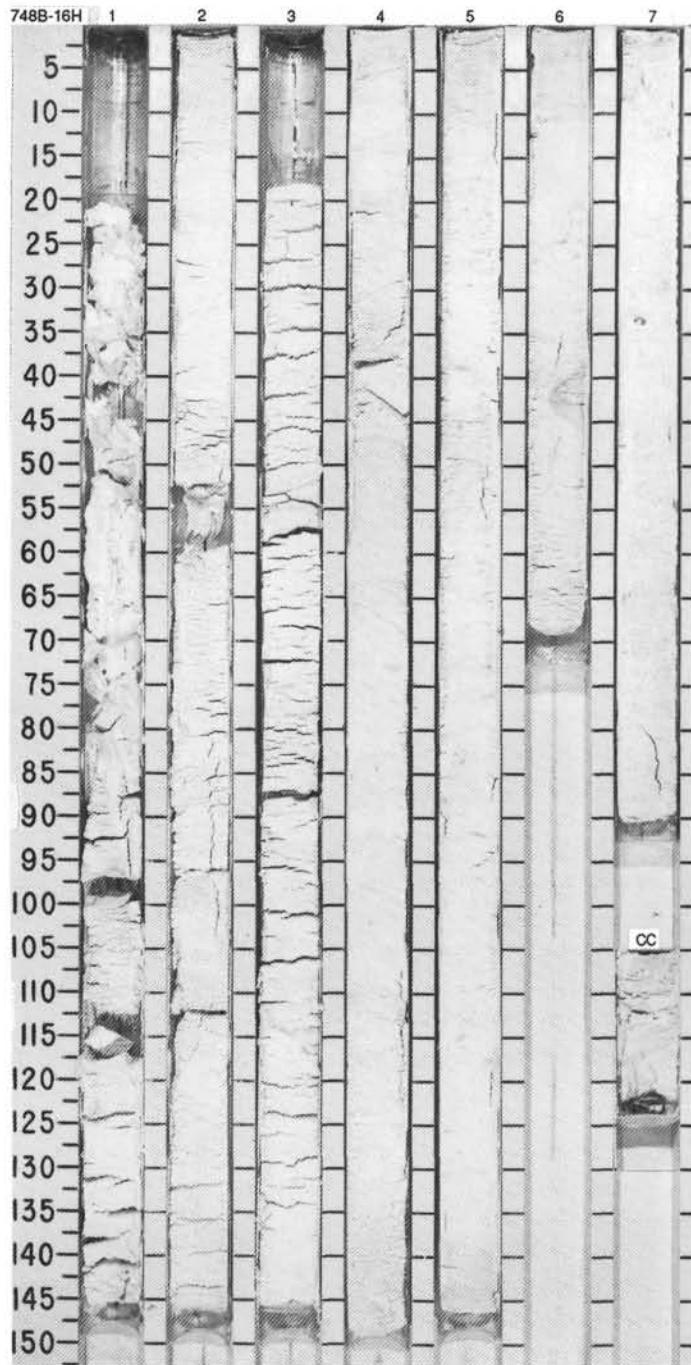
SITE 748 HOLE B CORE 14H CORED INTERVAL 114.1-123.6 mbsf



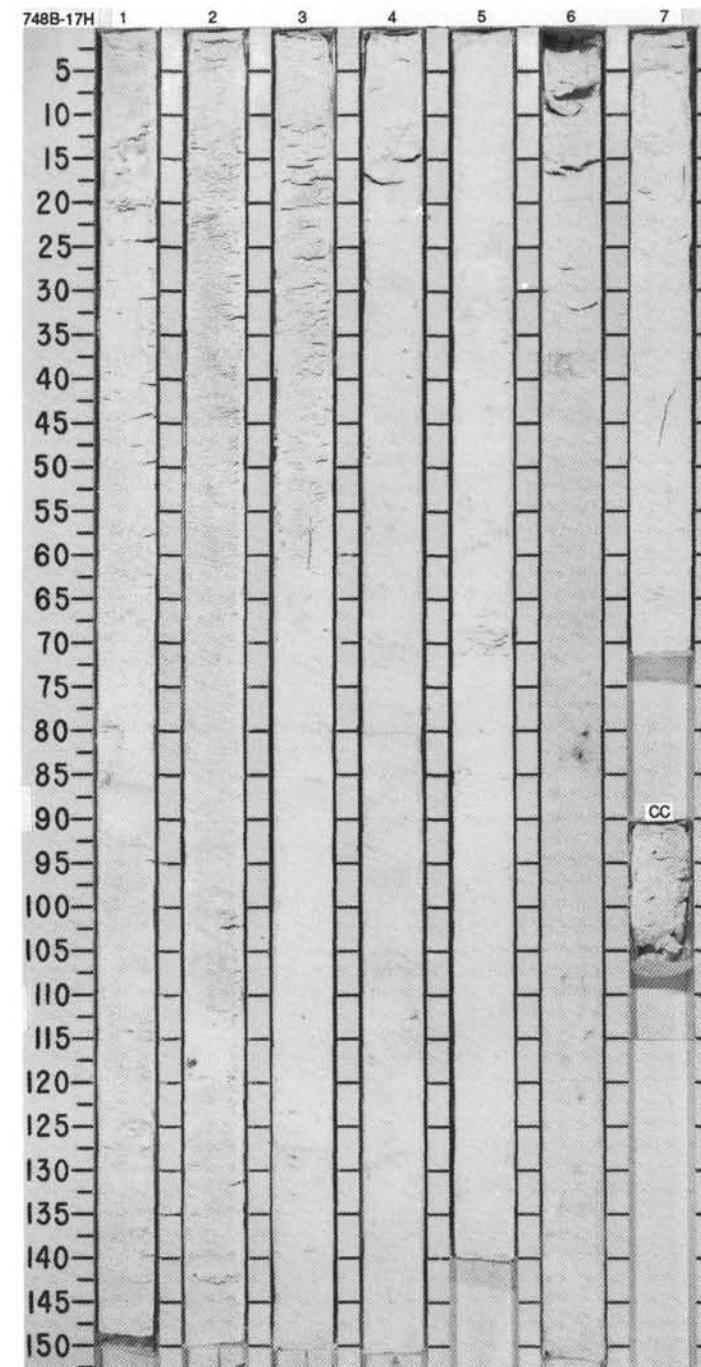
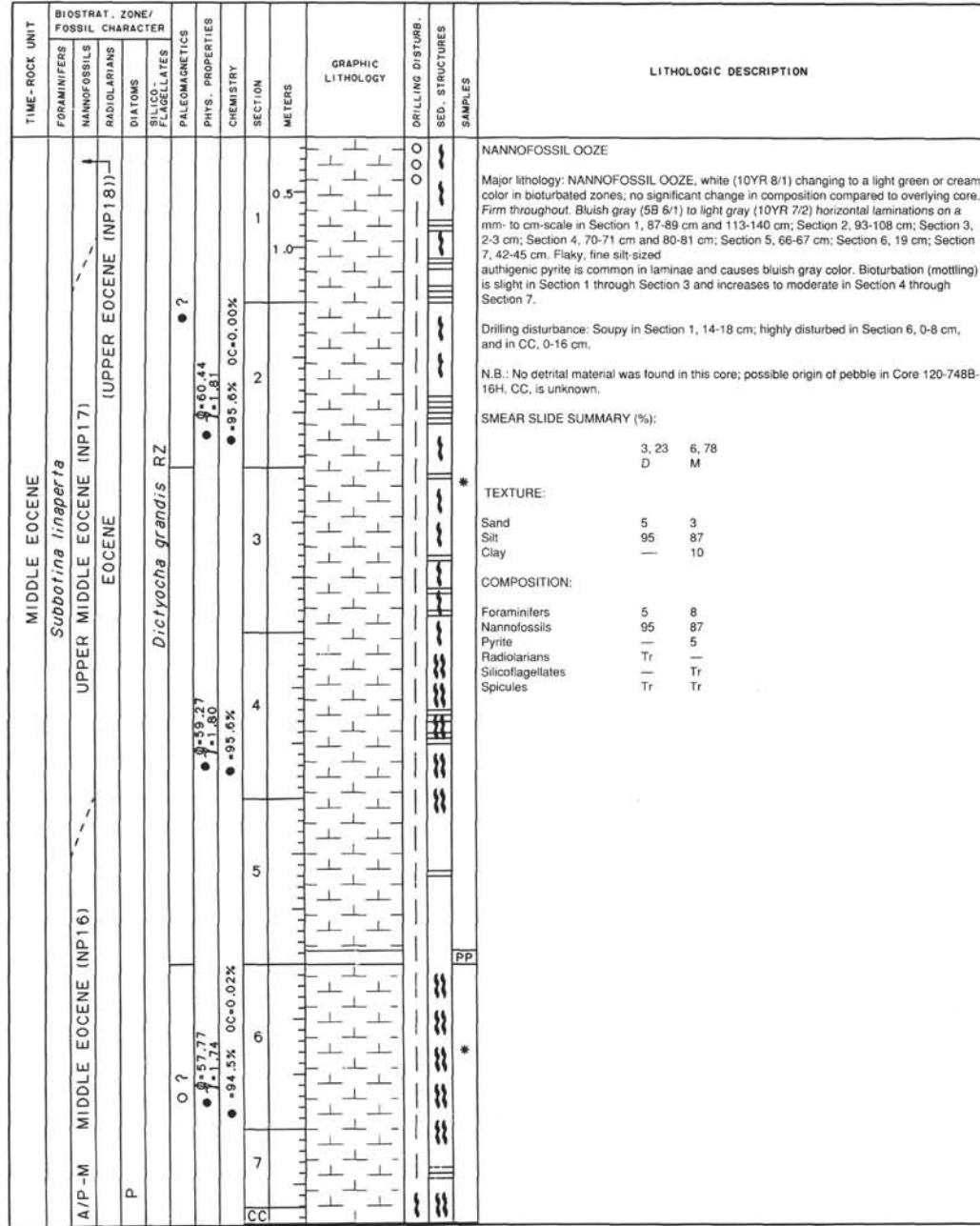
SITE 748 HOLE B CORE 15H CORED INTERVAL 123.6-133.1 mbsf



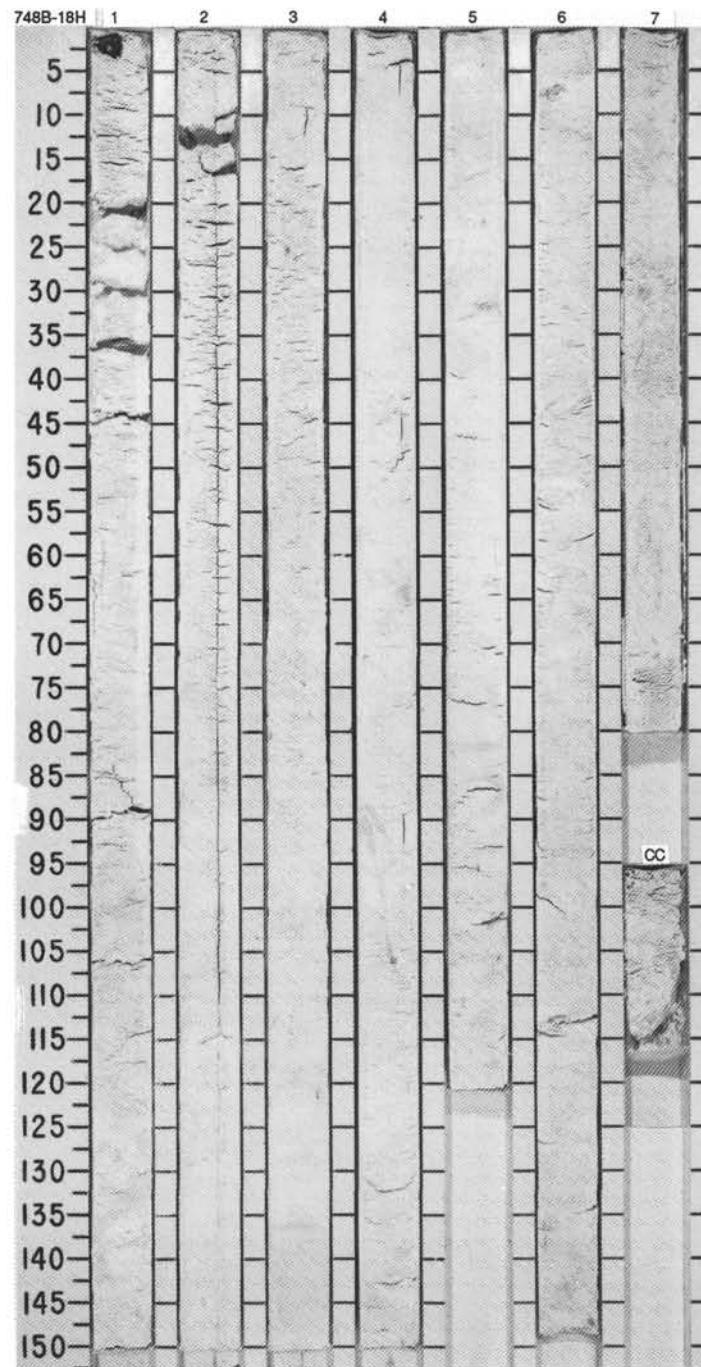
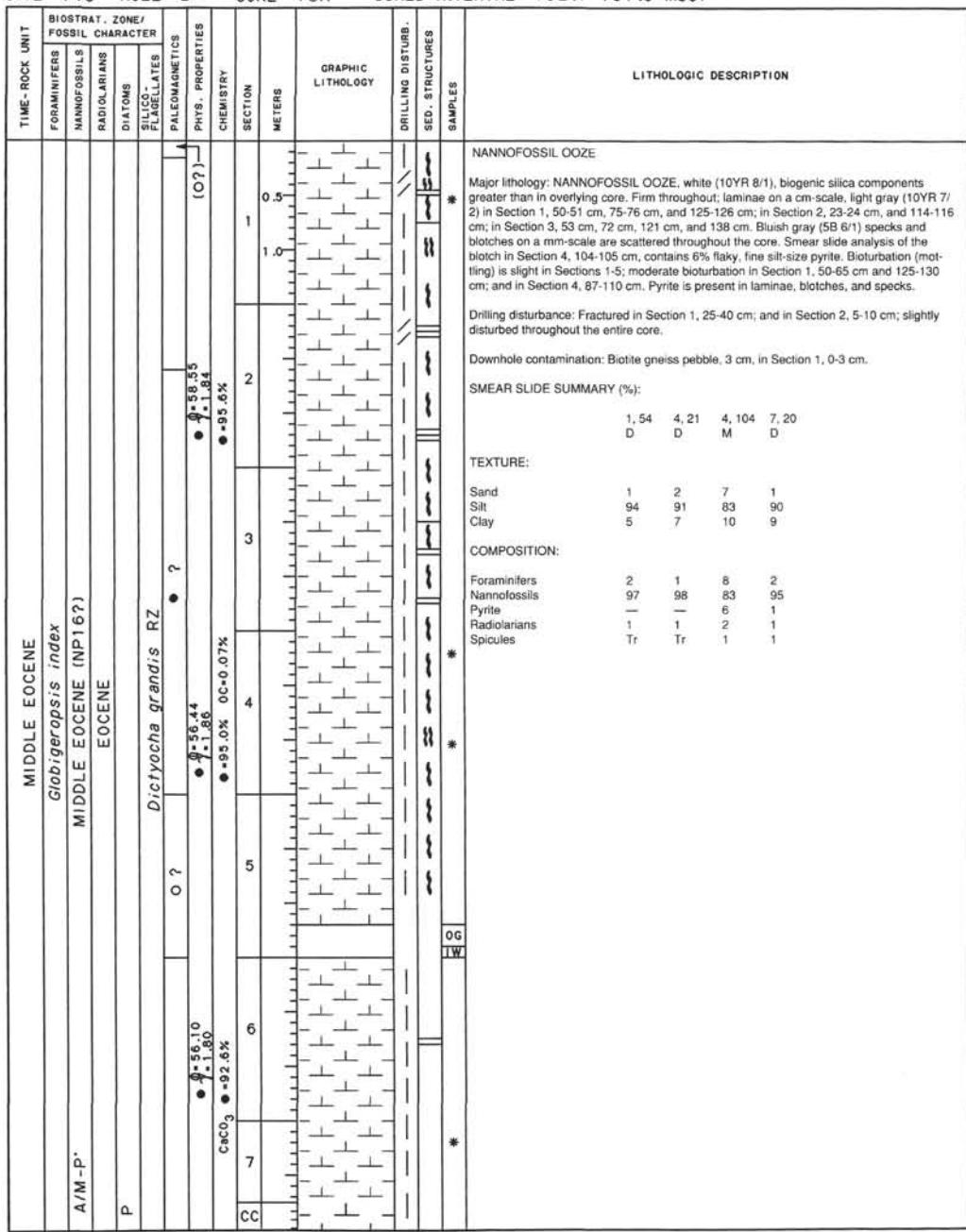
SITE 748 HOLE B CORE 16H CORED INTERVAL 133.1-142.6 mbsf



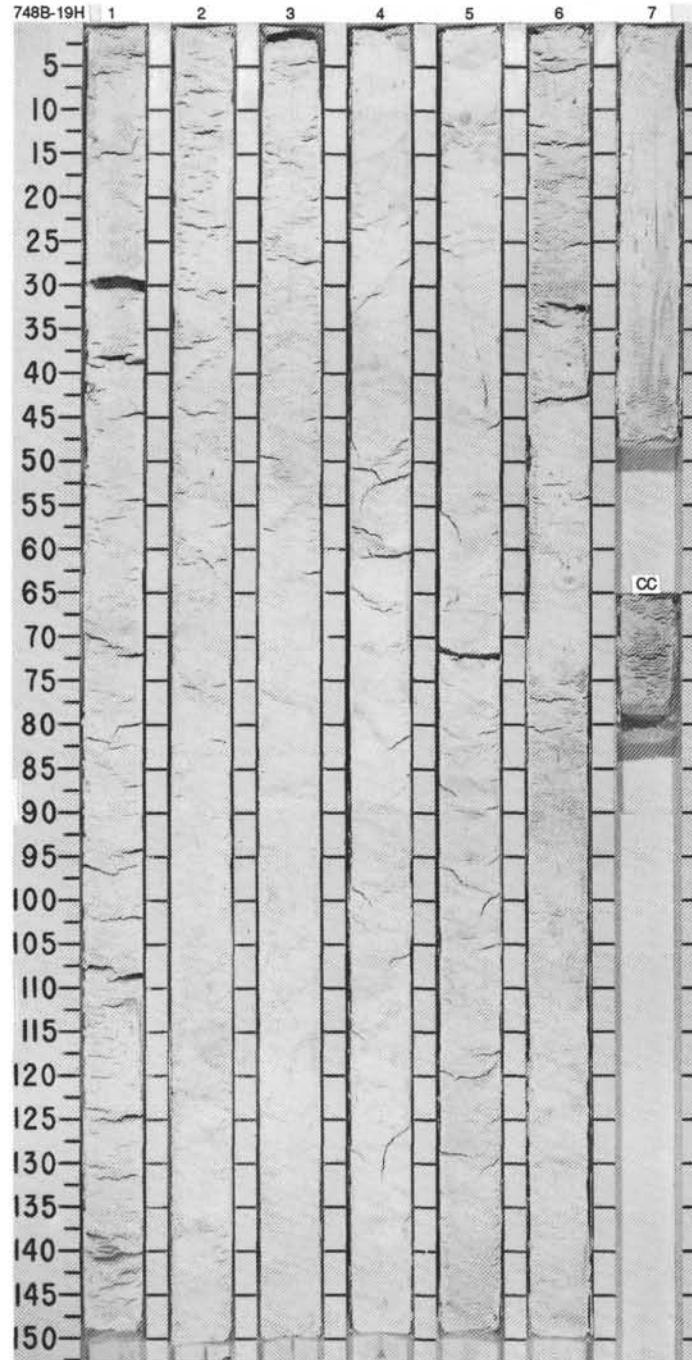
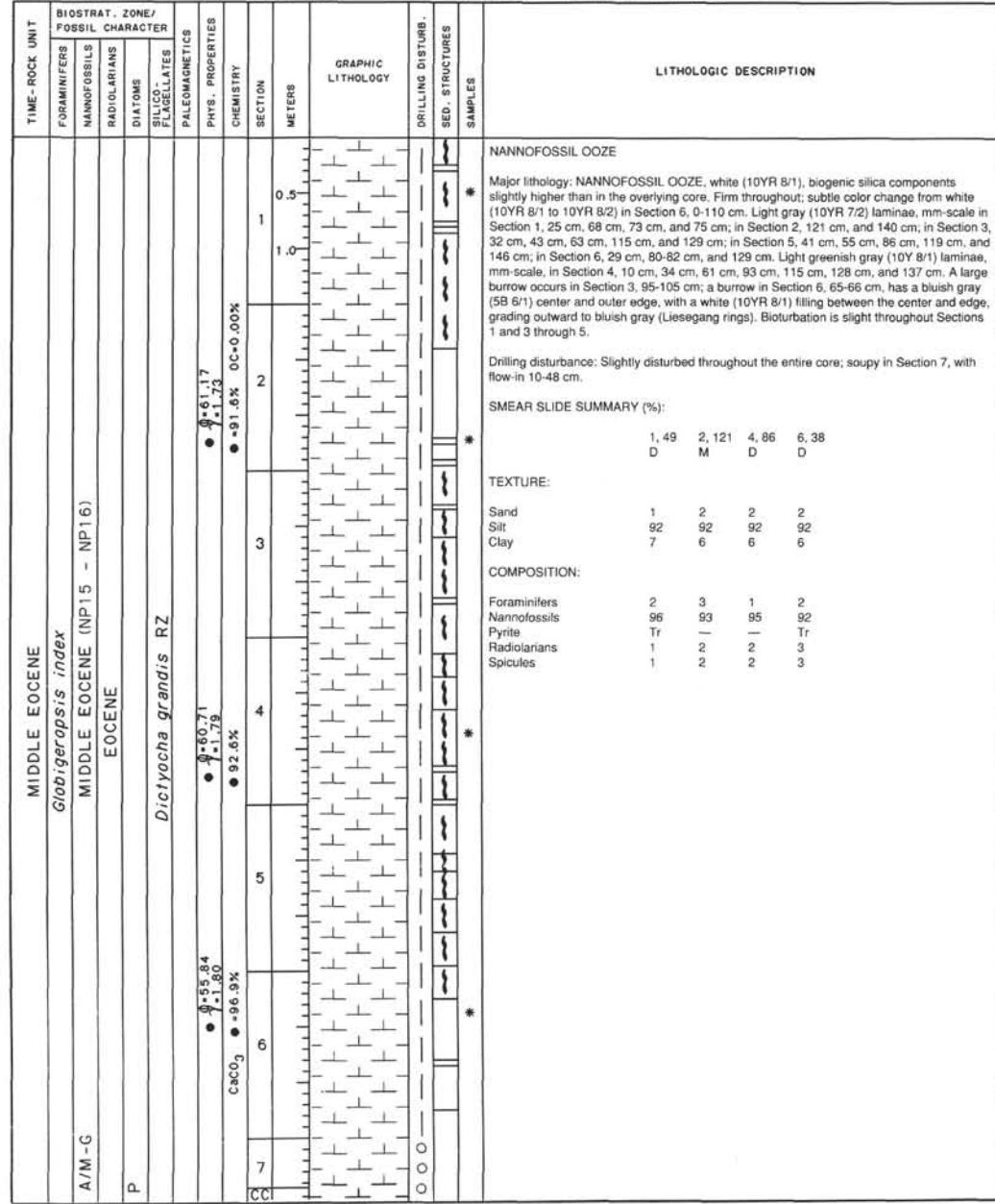
SITE 748 HOLE B CORE 17H CORED INTERVAL 142.6-152.1



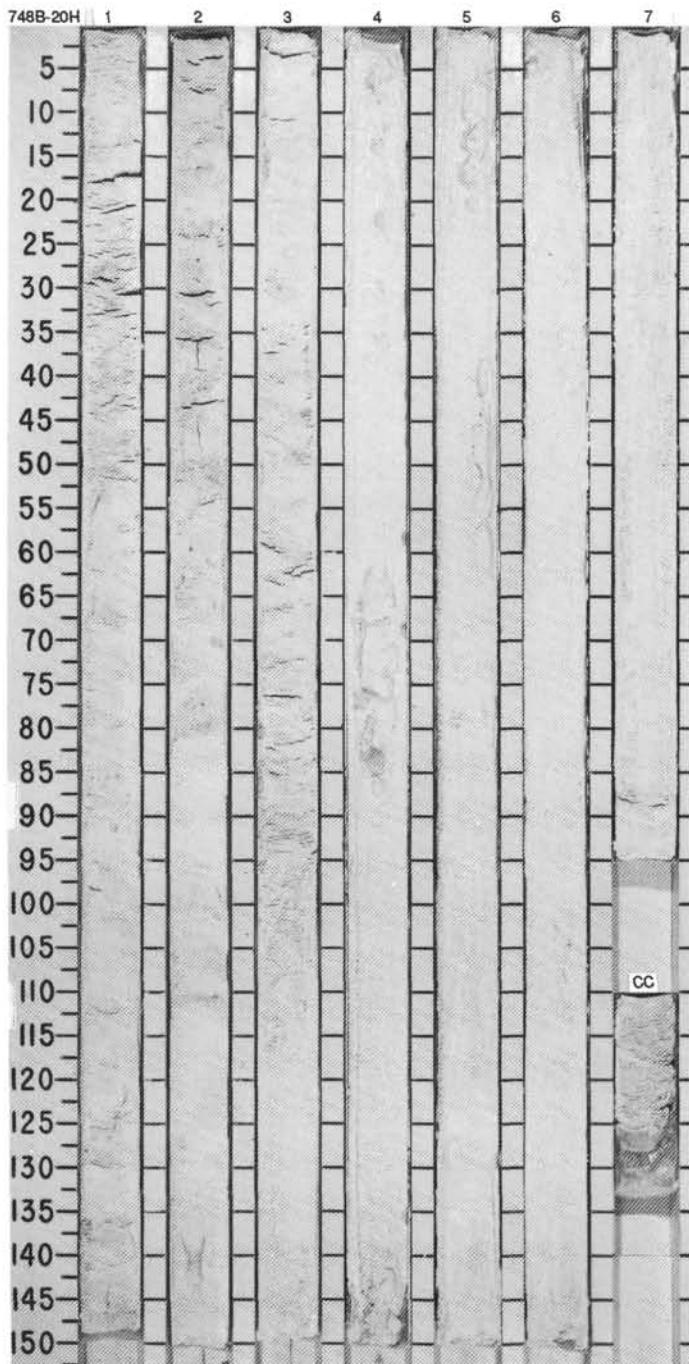
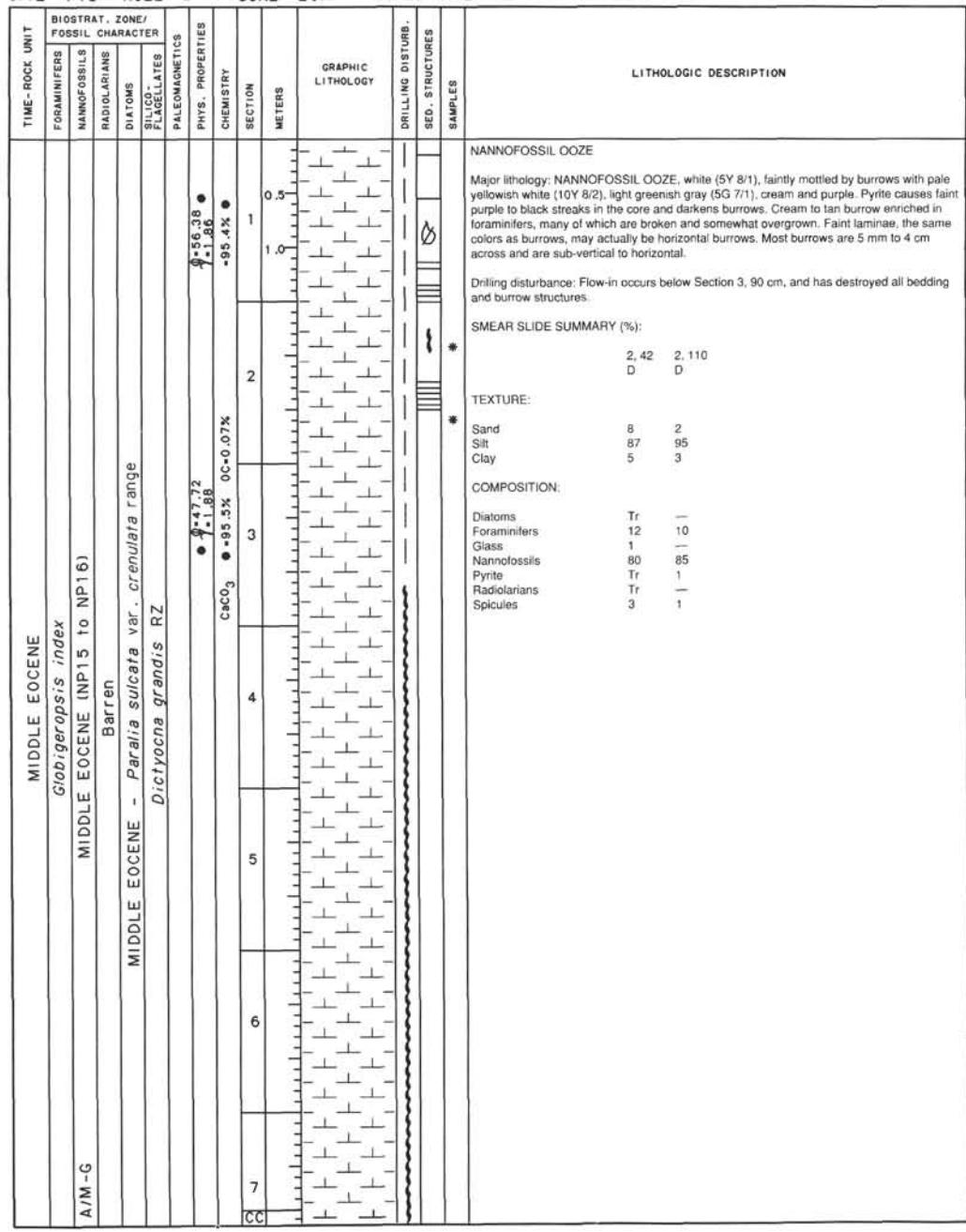
SITE 748 HOLE B CORE 18H CORED INTERVAL 152.1 - 161.6 mbsf



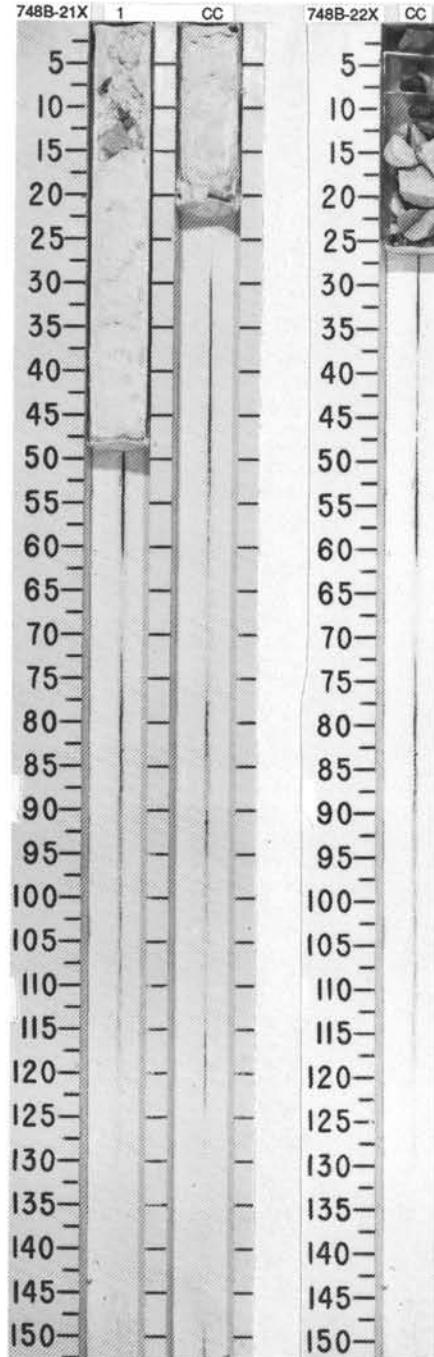
SITE 748 HOLE B CORE 19H CORED INTERVAL 161.1-171.1 mbsf



SITE 748 HOLE B 20H CORED INTERVAL 171.1-180.6 mbsf

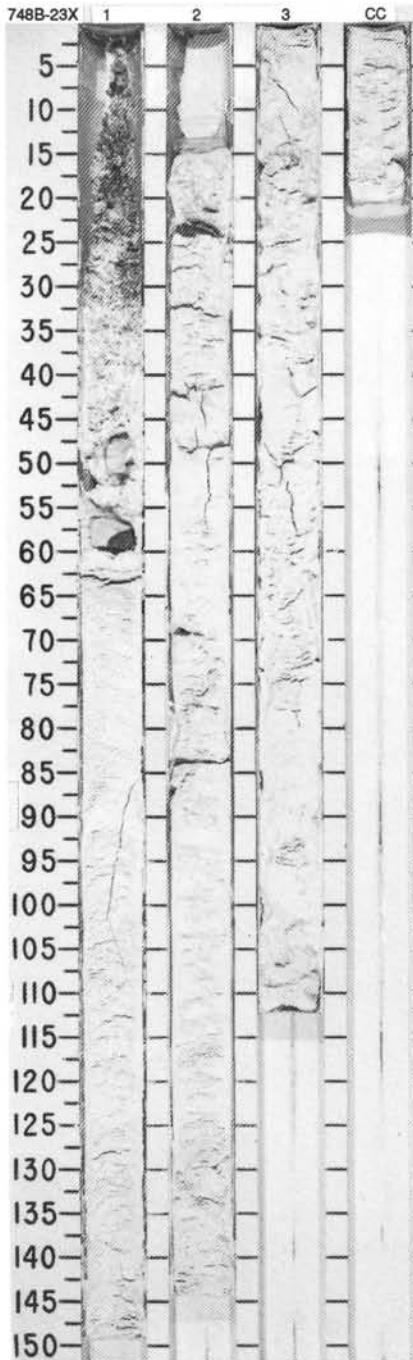


SITE 748 HOLE B CORE 21X CORED INTERVAL 180.6-187.1 mbsf



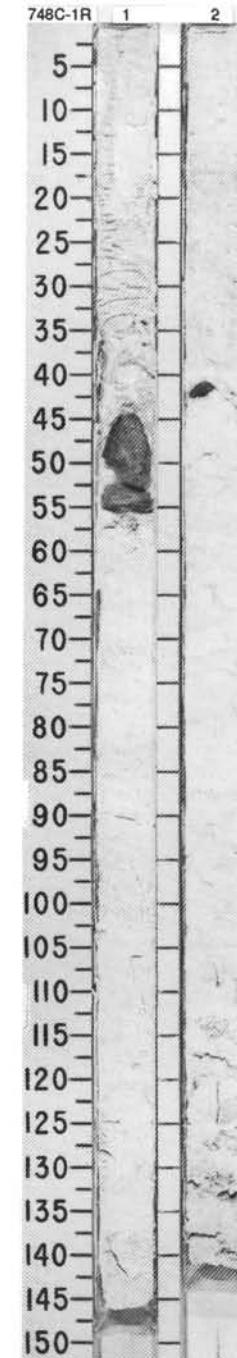
SITE 748 HOLE B CORE 22X CORED INTERVAL 187.1-196.6 mbsf

SITE 748 HOLE B CORE 23X CORED INTERVAL 196.6-206.1 mbsf



## SITE 748 HOLE C CORE 1R CORED INTERVAL 173.0 - 182.5 mbsf

MIDDLE EOCENE		TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALAEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION	
A/M	MIDDLE EOCENE (NP1.4 - NP15)	Barren									1						NANNOFOSSIL CHALK	
		Barren									2						Major lithology: NANNOFOSSIL CHALK, white (10Y N8) with purple sub-horizontal to diagonal burrows up to 7 mm in diameter; purple color appears to be from pyrite.	
				• 79.00	• 2.15												Minor lithology: Porcellanite fragments, olive (5Y 5/4), probably drilling breccia and out of place, with white, dark olive, and reddish streaks inside; in Section 1, 44-57 cm, and Section 2, 41-43 cm.	
				• 79.79	• 2.79												SMEAR SLIDE SUMMARY (%):	
																	1, 70      2, 114	D      D
																	TEXTURE:	
																	Sand      5      5	Silt      90      90
																	Clay      5      5	
																	COMPOSITION:	
																	Diatoms      1      —	Foraminifers      3      5
																	Micrite      5      5	Nannofossils      90      90
																	Spicules      Tr      Tr	

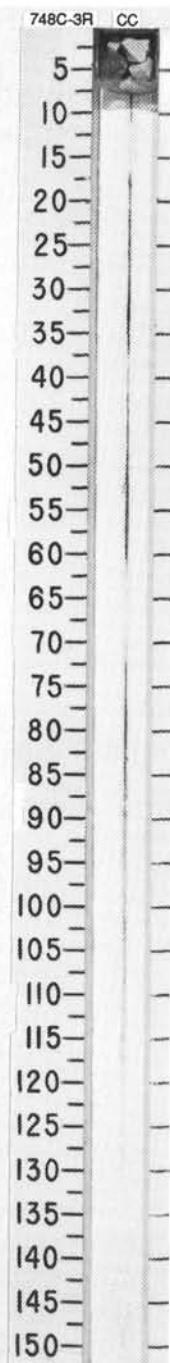
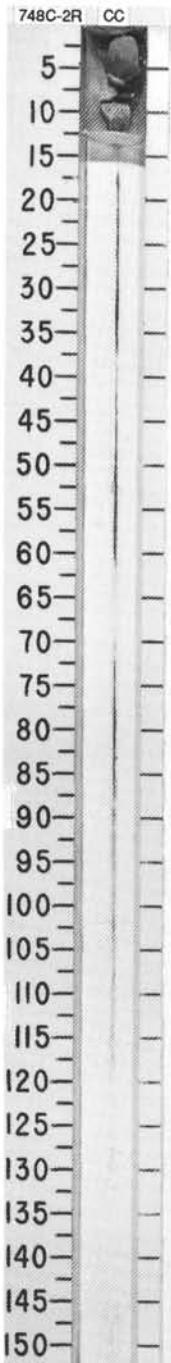


## SITE 748 HOLE C CORE 2R CORED INTERVAL 182.5-192.0 mbsf

TIME - ROCK UNIT	BIOSTRAT. ZONE / FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	CORED INTERVAL	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS						
no sample					CC	-▲▲▲△△			182.5 - 192.0 mbsf	CHERT Major lithology: CHERT, olive (SY 5/2), vitreous, occurs as several fragments in the CC. Contains white specks, possibly representing relict radiolarians; also some preserved burrow structures with some adhering porcellanite and chalk with dark gray to purple burrows. Laminae pass through the siliceous front.

## SITE 748 HOLE C CORE 3R CORED INTERVAL 192.0-201.5 mbsf

TIME - ROCK UNIT	BIOSTRAT. ZONE / FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	CORED INTERVAL	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS						
no sample					CC	-▲▲▲△△X			192.0 - 201.5 mbsf	CHERT Major lithology: CHERT, occurs as fragments in the CC: two are light gray (SY7/1), hard porcellanite with burrow streaks; four are olive brown (SY 5/6), dark vitreous, with white porcellanite rind showing preserved foraminifers, silicified chalk, and nannofossils in contact. A cobble of felsic biotite gneiss also occurs in the CC (downhole contamination).

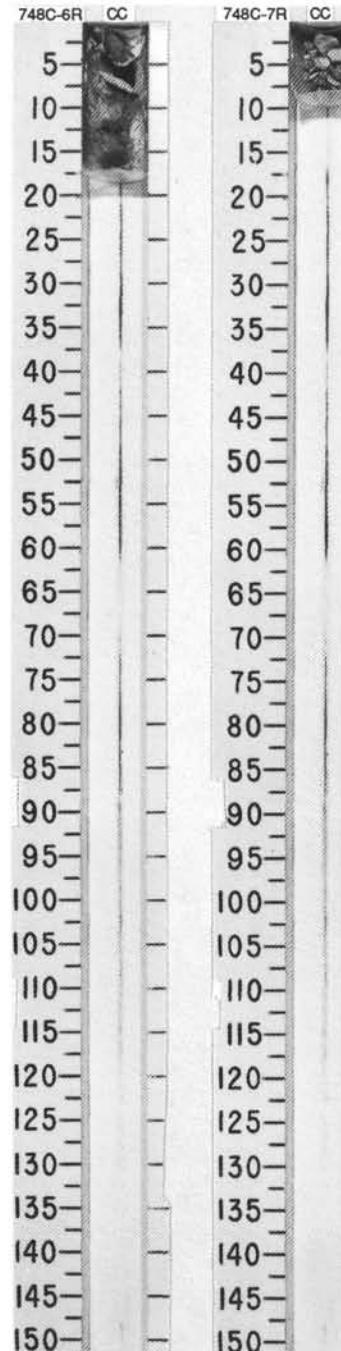


SITE 748 HOLE C CORE 6R CORED INTERVAL 220.5-230.0 mbsf

SITE 748 HOLE C CORE 7R CORED INTERVAL 230.0-239.5 mbsf

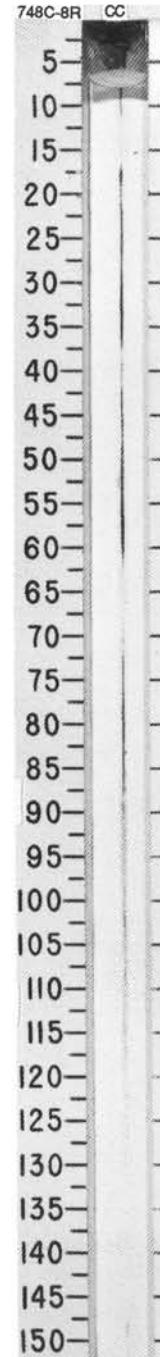
CORE 120-748C-4R NO RECOVERY

CORE 120-748C-5R NO RECOVERY



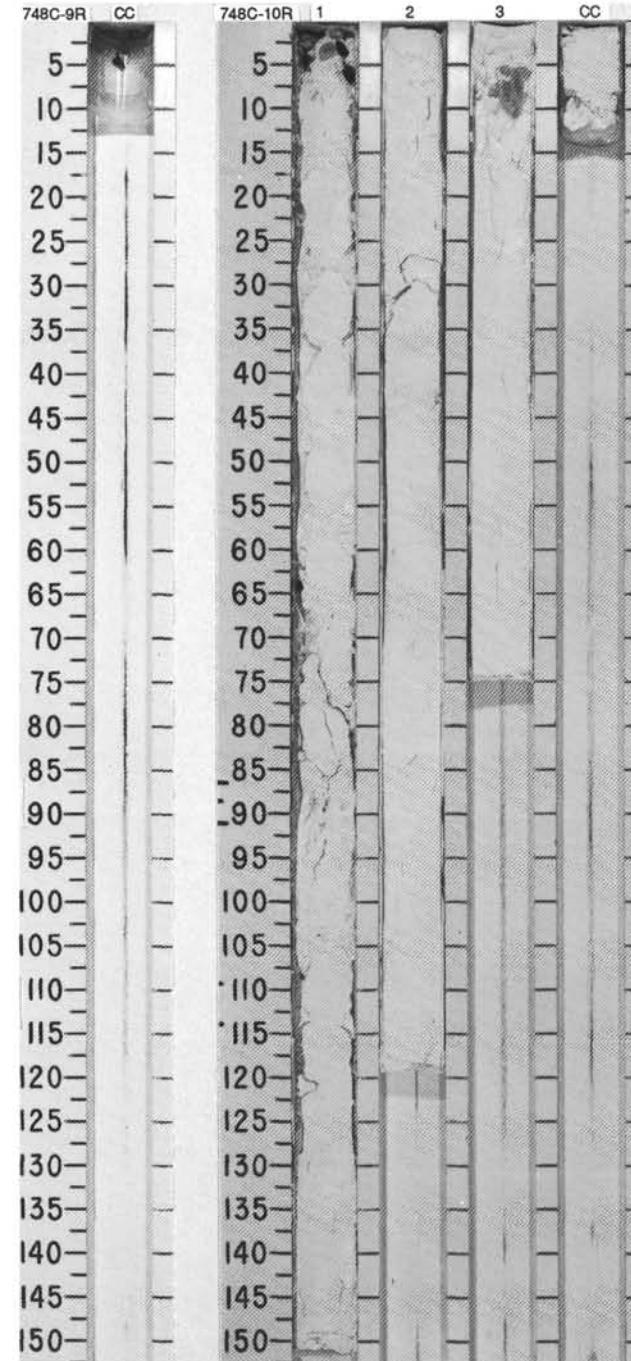
SITE 748 HOLE C CORE 8R CORED INTERVAL 239.5-249.0 mbsf

LOWER MIDDLE EOCENE or UPPER LOWER EOCENE		TIME-ROCK UNIT		CORED INTERVAL 239.5-249.0 mbsf					
A/M	LOWER MIDDLE EOCENE or UPPER LOWER EOCENE (NP13 or NP14)	BIOSTRAT., ZONE/ FOSSIL CHARACTER		LITHOLOGIC DESCRIPTION					
		FORAMINIFERS	NANNOFOSSELS						
		RADIOLARIANS	DIATOMS						
		PALaeOMAGNETICS	GRAPHIC LITHOLOGY						
		PHYS. PROPERTIES	DRILLING DISTURB.						
		CHEMISTRY	SED. STRUCTURES						
		SECTION	METERS						
		X	X						
				CHERT					
				Major lithology: drilling breccia of CHERT, olive (SY 5/4), no sediment attached.					

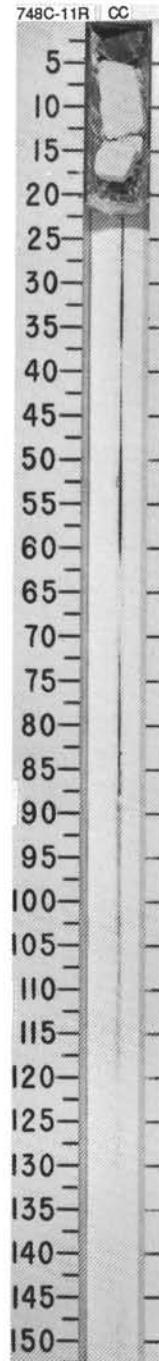


SITE 748 HOLE C CORE 9R CORED INTERVAL 249.0-258.5 mbsf

SITE 748 HOLE C CORE 10R CORED INTERVAL 258.5-268.0 mbsf



SITE 752 HOLE C CORE 11R CORED INTERVAL 268.0-277.5 mbsf



SITE 748 HOLE C CORE 12R CORED INTERVAL 277.5-287.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS				GRAPHIC LITHOLOGY				LITHOLOGIC DESCRIPTION				
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES						
LOWER EOCENE <i>Subbotina patagonica</i> - <i>Pseudohastigerina wilcoxensis</i>					9*54.84	•	1				*						
LOWER EOCENE (NP11)					9*1.92												
Barren					CaCO <sub>3</sub>	• 95.6%											
Barren																	

NANNOFOSSIL CHALK WITH MICRITE

Major lithology: NANNOFOSSIL CHALK with micrite, white (10YR 8/1), fewer foraminifers than in overlying core. Nannofossils are etched. Laminae occur on a mm-scale and are light gray (10YR 8/1) to bluish gray (5B 6/1). A few crinoid and bryozoan fragments are scattered in Section 1, 35-71 cm; chert fragments (light gray, 10YR 7/1) occur in Section 1, 0-4 cm, which have chalk rinds and contain ghosts of foraminifers. Chert fragments up to 5 cm across also occur in the CC.

Drilling disturbance: Moderately fractured (drilling biscuits) through Section 1; CC is highly fractured.

SMEAR SLIDE SUMMARY (%):

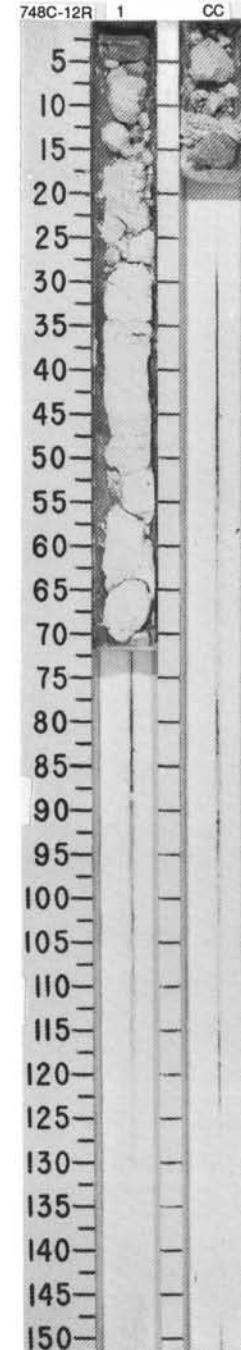
1, 40  
D

TEXTURE:

Sand	5
Silt	89
Clay	6

COMPOSITION:

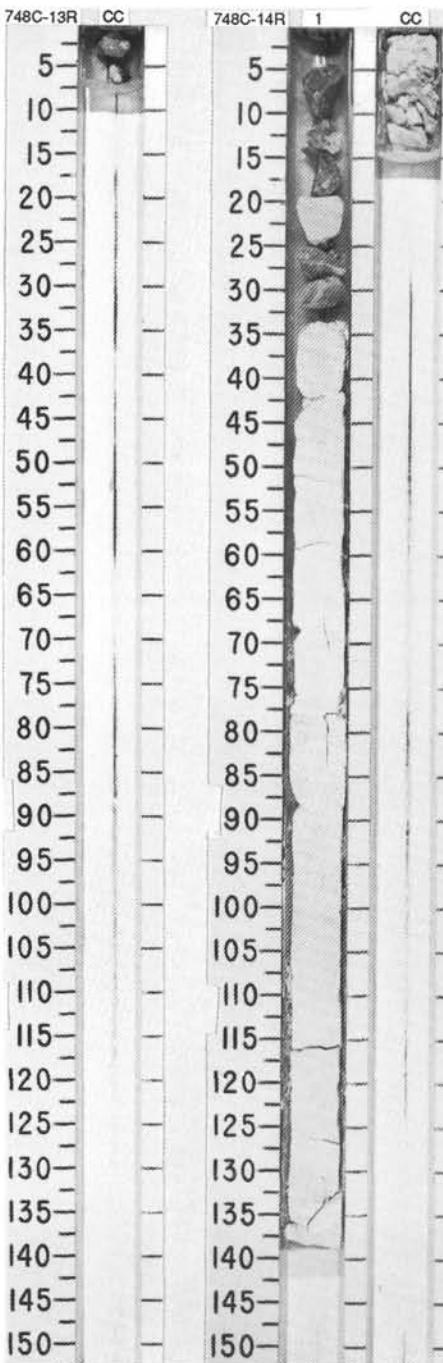
Foraminifers	5
Micrite	10
Nannofossils	85



SITE 748 HOLE C CORE 13R CORED INTERVAL 287.0-296.5 mbsf

TIME - ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		LITHOLOGIC DESCRIPTION	
LOWER EOCENE	Pseudonataligerina w/icoxensis	FORAMINIFERS	MAMMFOSSILS		
LOWER EOCENE (NP11)	A/P	RADIOLARIANS	DIACTOMS		
no sample					
no sample					
		PALEOMAGNETICS			
		PHYS. PROPERTIES			
		CHEMISTRY			
		C SECTION			
		METERS			
			GRAPHIC LITHOLOGY		
				DRILLING DISTURB.	
				X	
				SED. STRUCTURES	
				SAMPLES	
					CHERT
Major lithology: CHERT, grayish brown (10YR 4/2), occurs as 3-cm angular fragments in the CC. Chert contains relict foraminifers and possibly radiolarians.					

SITE 748 HOLE C CORE 14R CORED INTERVAL 296.5-306.0 mbsf

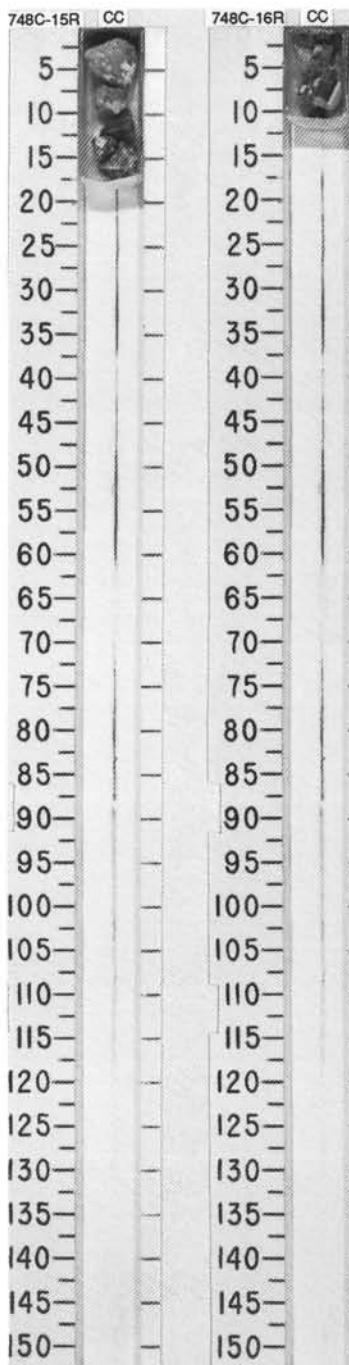


## SITE 748 HOLE C CORE 15R CORED INTERVAL 306.0-315.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/FOSSIL CHARACTER	LITHOLOGIC DESCRIPTION					
		FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALaeOMAGNETICS	PHYS. PROPERTIES
SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES		
CC	-▲▲▲▲×	CHERT					
		Major lithology: CHERT, light brownish gray (10YR 6/2), in the CC, 0-6 cm, and very dark gray (10YR 3/1) in the CC, 6-17 cm. Chert contains numerous inclusions of chalk and/or relict microfossils (white specks).					

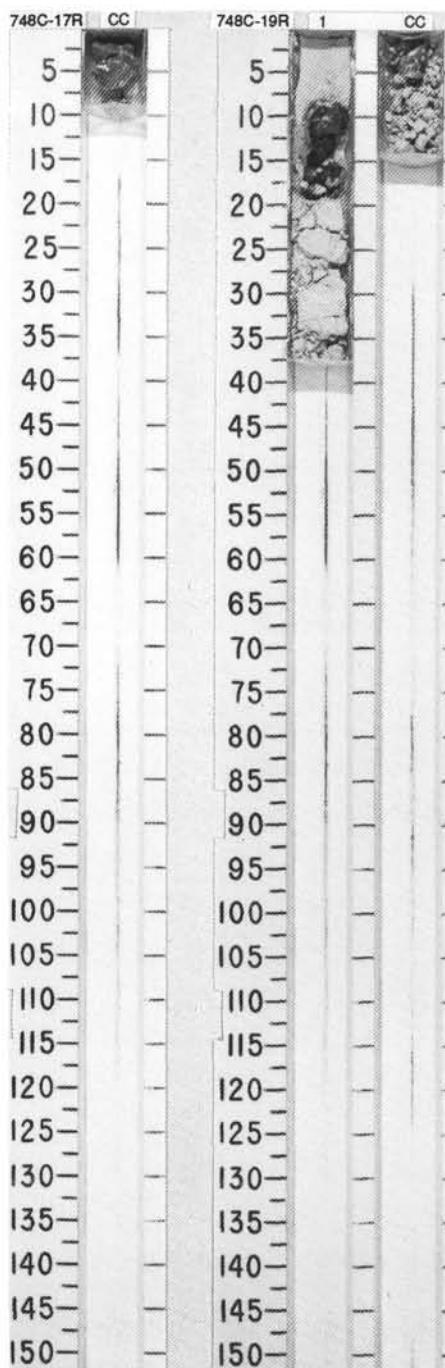
## SITE 748 HOLE C CORE 16R CORED INTERVAL 315.5-320.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/FOSSIL CHARACTER	LITHOLOGIC DESCRIPTION					
		FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALaeOMAGNETICS	PHYS. PROPERTIES
SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES		
CC	-▲▲▲▲×	CHERT					
		Major lithology: Drilling breccia of CHERT, very dark gray (10YR 3/1) with rind of hard, light gray (10YR 7/1) chalk occurs in the CC. A fragment of igneous rock (biotite-rich granite) also occurs in the CC; probably downhole contamination.					



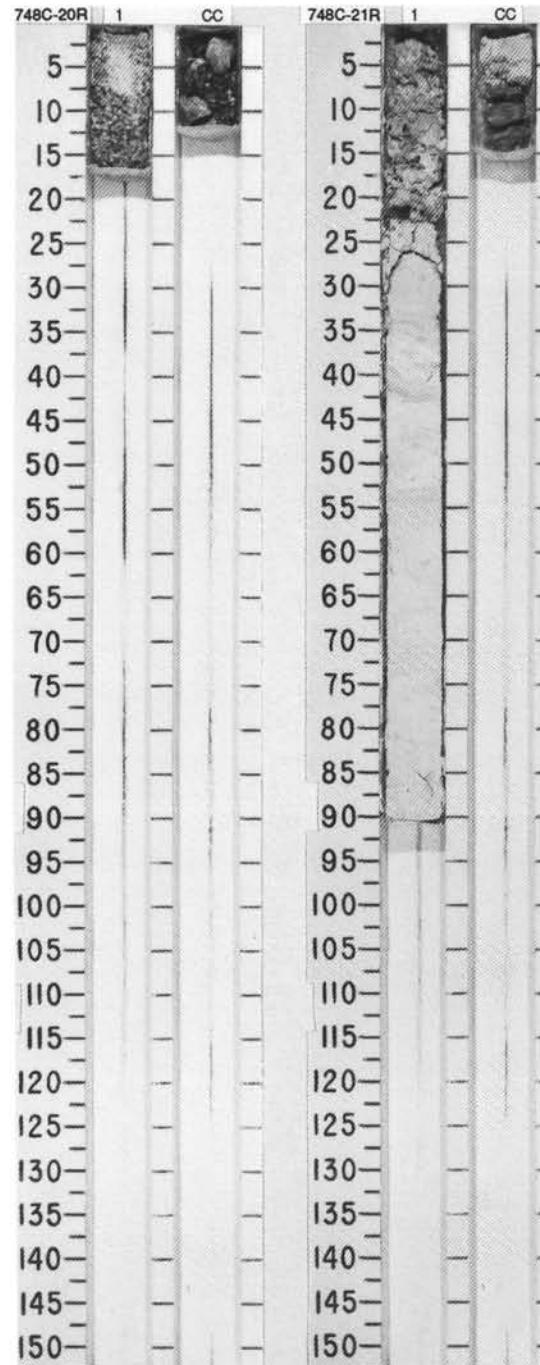
SITE 748 HOLE C CORE 17R CORED INTERVAL 320.5-330.0 mbsf														
TIME - ROCK UNIT														
	BIOSTRAT. ZONE/ FOSSIL CHARACTER	NANNOFOSSILS	RADIOLARIANS	DIACTINS	PALaeOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURBS.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
UPPER PALEOCENE <i>A. solidaeensis</i>	A/M - G		CC		X		CHERT		Major lithology: Three fragments of CHERT, very dark gray (10YR 3/1); chert contains a few inclusions of chalk.					
UPPER PALEOCENE no sample	no sample													

CORE 120-748C-18R NO RECOVERY



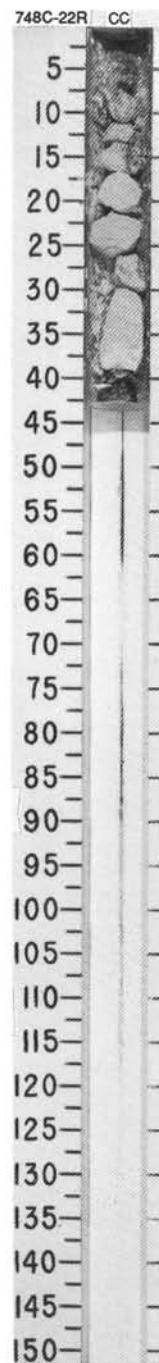
SITE 748 HOLE C CORE 20R CORED INTERVAL 340.5-350.0 mbsf

SITE 748 HOLE C CORE 21R CORED INTERVAL 350.0-359.5 mbsf



SITE 748 HOLE C CORE 22R CORED INTERVAL 359.5-369.0 mbsf

TIME- ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS				GRAPHIC LITHOLOGY				LITHOLOGIC DESCRIPTION			
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PHYS. PROPERTIES	DRILLING DISTURB.	SED. - STRUCTURES	SAMPLES	METERS	SECTION						
UPPER PALEOCENE <i>Igorina pusilla</i>					∅ 52.44 7.82 ●	X X	● ●	*		1						
A/G	UPPER PALEOCENE (NP9)				CaCO <sub>3</sub> = 96.4% OC=0.00%											
	no sample															
	no sample															



## SITE 748 HOLE C CORE 23R CORED INTERVAL 369.0-378.5 mbsf

TIME - ROCK UNIT	BIOSTRAT. ZONE/FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	MICROFAUNA	MICROFLORA	DIASTOMS								
UPPER PALEOCENE <i>Acarinina mekannai</i>												
UPPER PALEOCENE (NP9)	A/G											
no sample												
no sample												

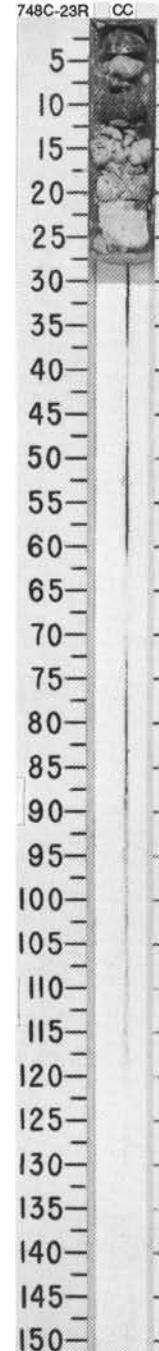
0 51.25 •  
1 1.30 •  
CaCO<sub>3</sub> 95.6%

CHALK AND CHERT

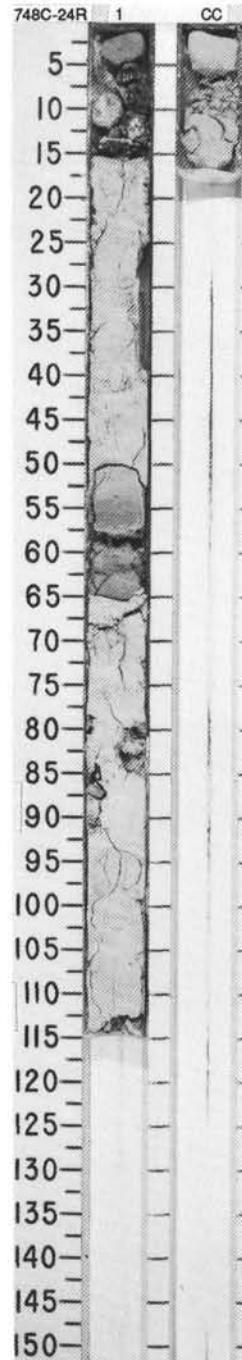
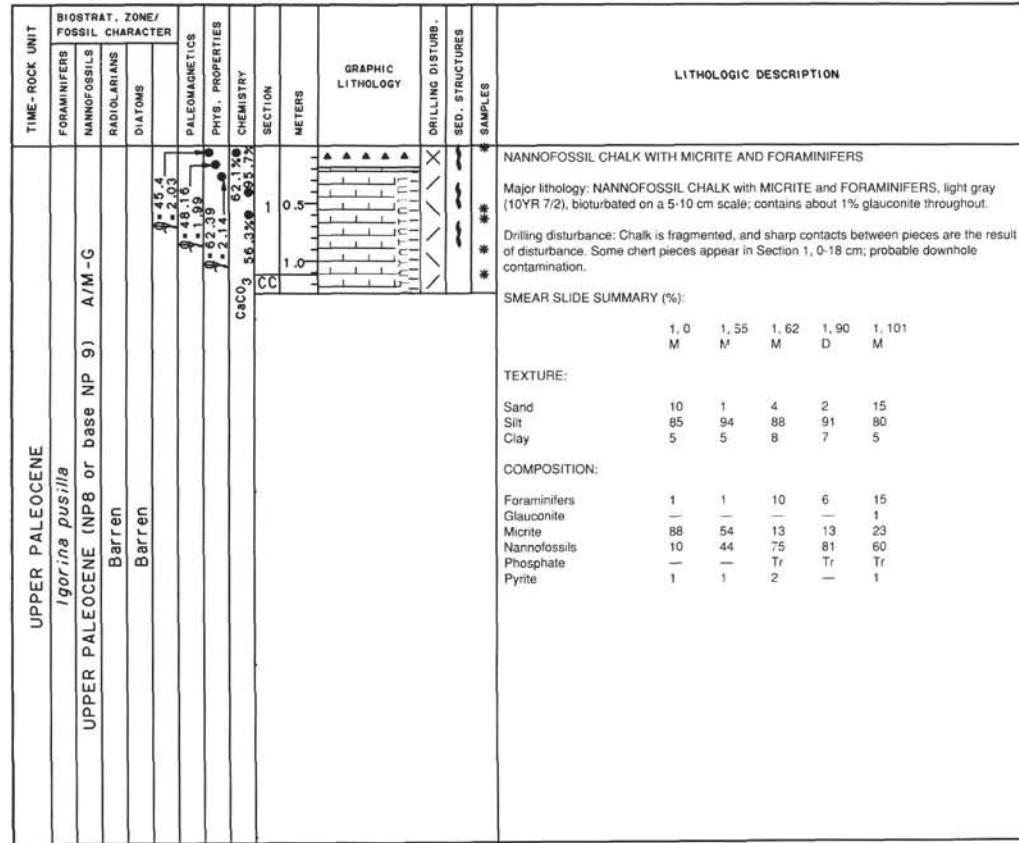
Major lithologies:

a. CHALK, white (10YR 8/1), occurs as a small piece in the CC, 3-5 cm, and a larger piece in the CC, 20-26 cm; a disturbed interval of chalk occurs 11-20 cm. The larger piece is burrow mottled with light gray (5Y 8/1) and contains dark speck throughout (glauconite).

b. CHERT, very dark gray (10YR 3/1), contains light inclusions which may be relict microfossils; occurs in the CC, 0-3 cm and 8-11 cm.



SITE 748 HOLE C CORE 24R CORED INTERVAL 378.5-388.0 mbsf



## SITE 748 HOLE C CORE 25R CORED INTERVAL 388.0-397.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/FOSSIL CHARACTER				PALEOMAGNETICS				GRAPHIC LITHOLOGY				LITHOLOGIC DESCRIPTION			
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	#	#	#	#	#
UPPER PALEOCENE <i>Subbotina triloculoides</i>	A/M				• 20.15 • 1.97	CaCO <sub>3</sub> • 94.9%	CC	1 0.5 1.0	X X X X	*	#					
UPPER PALEOCENE (NP7)																
Barren																
Barren																

Major lithology: NANNOFOSSIL CHALK with FORAMINIFERS, light gray (10YR 7/1), similar to the overlying core. Horizontal laminae on a mm-scale occur in Section 1, 87-88 cm.

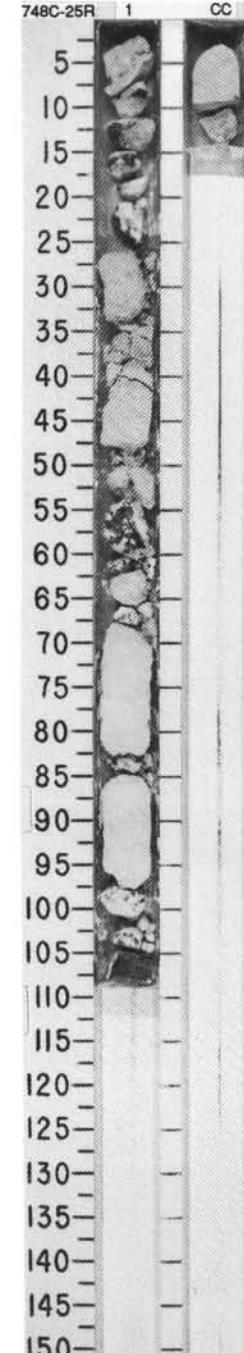
Minor lithologies:

- a. Lithified wackestone, occurs in CC, 0-5 cm; contains glauconite.
- b. Chert, dark olive gray (5Y 3/2), occurs as fragments in Section 1, 0-25 cm and 55-68 cm.

Drilling disturbance: Breccia occurs in Section 1, 0-26 cm, 48-67 cm, and 97-108 cm, and in the CC; highly fractured in Section 1, 26-48 cm and 67-97 cm.

SMEAR SLIDE SUMMARY (%):

	1, 1 D	1, 42 D	1, 95 D	CC, 1 D
TEXTURE:				
Sand	—	10	100	—
Silt	—	80	—	—
Clay	—	10	—	—
COMPOSITION:				
Bivalves	5	—	—	5
Calcareous fragments	Tr	—	20	Tr
Chalcedony	5	—	—	10
	Tr	—	—	—
Foraminifers	35	10	80	30
Glauconite	Tr	1	—	5
Micrite	35	9	—	40
Nanofossils	—	80	—	—
Pyrite	—	—	—	Tr
Silica	15	—	—	10
Spicules	Tr	—	—	Tr

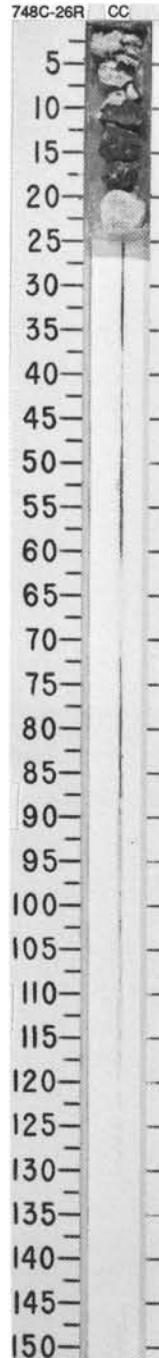


SITE 748 HOLE C CORE 26R CORED INTERVAL 397.5-407.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/FOSSIL CHARACTER				CORE SECTION	METERS	GRAPHIC LITHOLOGY	LITHOLOGIC DESCRIPTION		
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY
UPPER PALEOCENE <i>Subbotina triloculinoidea</i>					A/M-G					
LOWER UPPER PALEOCENE (NP6)										
no sample										
no sample										

CHERT

Major lithology: CHERT, very dark gray (2.5Y N3/0), occurs as fragments in the CC, 2-5 cm. A fragment in the CC, 5-7 cm, is composed of chalk, porcellanite, and chert. A porcellanite fragment occurs in the CC, 19-24 cm; chert fragments, 10-19 cm.



SITE 748 HOLE C CORE 27R CORED INTERVAL 407.0-416.5 mbsf

TIME - ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS
UPPER MAESTRICHTIAN				
MIDDLE - UPPER MAESTRICHTIAN				
<i>Nephrolithus frequens</i>	F/M			
Cretaceous				
no sample				

PALAEOMAGNETICS

PHYS. PROPERTIES

CHEMISTRY

SECTION

METERS

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES #

LITHOLOGIC DESCRIPTION

INTERMITTENTLY SILICIFIED GLAUCONITIC BIOCLASTIC GRAINSTONE

Major lithology: partly SILICIFIED GLAUCONITIC BIOCLASTIC GRAINSTONE, light gray (5Y 7/1 and 5Y 6/1) to gray (5Y 5/1) and yellowish olive (5& 6/2). Moderately to highly bioturbated, mostly massive with rare, cm-scale graded bedding. Very fine sand-size grains, including rare quartz. Bioclastic debris includes (in order of decreasing abundance) echinoid debris, mollusc debris (including inoceramids), benthic foraminifers, sponge spicules, brachiopods, and bryozoa. The entire core is speckled with black pyrite and dark green glauconite. Burrows include horizontal Chondrites and Planolites and subvertical Thalassinoides.

Cementation is sporadic, but complete where present, and is not confirmed to textural or bioturbated zones. Friable intervals, partly cemented by calcite occur in Section 1, 46-105 cm, and 123-150 cm, and in Section 2, 0-21 cm. Glauconite replaces some fossils such as foraminifers, echinoid spines, and spicules; many of these are coated with pyrite.

SMEAR SLIDE SUMMARY (%):

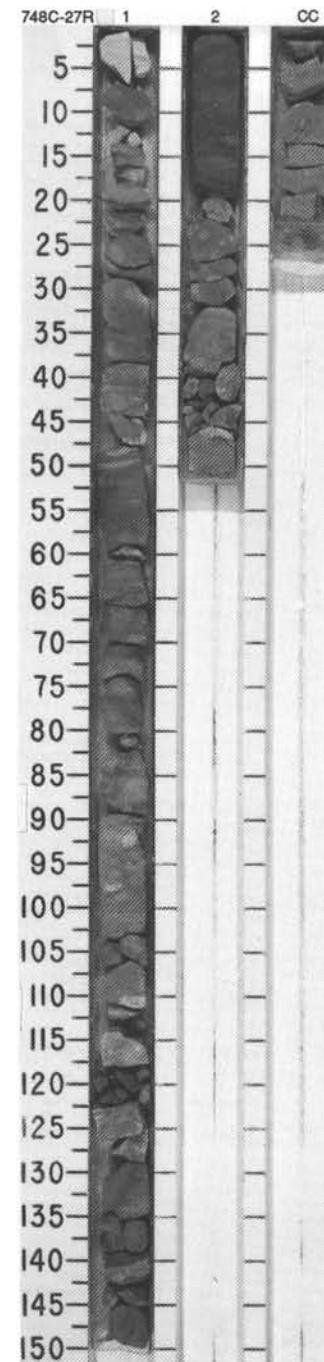
1, 12	1, 27	1, 117
D	D	D

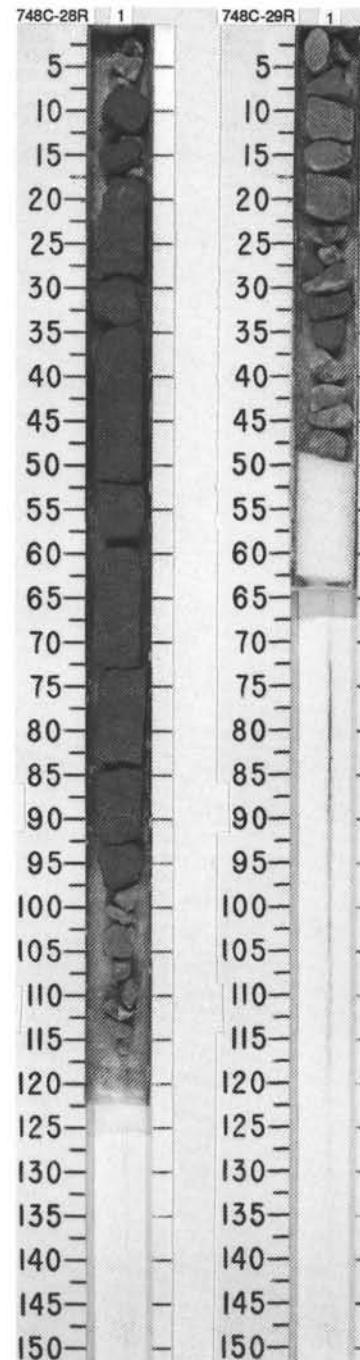
TEXTURE:

Sand	—	—	100
------	---	---	-----

COMPOSITION:

Altered grains	3	Tr	—
Apatite	—	—	Tr
Bivalves	5	10	—
Bryozoa	Tr	—	—
Calcareous fragments	10	10	25
Chalcedony	5	10	—
Clay	—	—	10
Foraminifers	40	30	3
Glauconite	10	5	55
Micrite	10	20	—
Pyrite	Tr	Tr	5
Quartz	—	—	Tr
Silica	10	5	—
Spicules	5	5	—





## SITE 748 HOLE C CORE 30R CORED INTERVAL 435.0-445.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/FOSSIL CHARACTER					LITHOLOGIC DESCRIPTION				
	FORAMINIFERS	NANNOFOSILS	RADIOLARIANS	DIATOMS	PALAEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	
MIDDLE - UPPER MAESTRICHTIAN	MIDDLE - UPPER MAESTRICHTIAN	no sample								
		no sample								
		no sample								
		no sample								

## MEDIUM-GRAINED GLAUCONITIC BIOCLASTIC GRAINSTONE

Major lithology: MEDIUM-GRAINED GLAUCONITIC BIOCLASTIC GRAINSTONE, olive (10Y 6/2), silicified in Section 1, 0-2 cm and 70-109 cm, and in Section 2, 0-30 cm and 35-44 cm. Unsilicified intervals are bioturbated. Inoceramid fragments occur in Section 1, 50 cm, 78 cm, 92 cm, 117 cm, and 132 cm.

N.B.: no CC.

## SITE 748 HOLE C CORE 31R CORED INTERVAL 445.0-454.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/FOSSIL CHARACTER					LITHOLOGIC DESCRIPTION				
	FORAMINIFERS	NANNOFOSILS	RADIOLARIANS	DIATOMS	PALAEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	
MIDDLE - UPPER MAESTRICHTIAN	MIDDLE - UPPER MAESTRICHTIAN	Barren								
		no sample								
		no sample								

## LITHOLOGIC DESCRIPTION

SILICIFIED, VERY COARSE TO COARSE-GRAINED GLAUCONITIC BIOCLASTIC GRAINSTONE

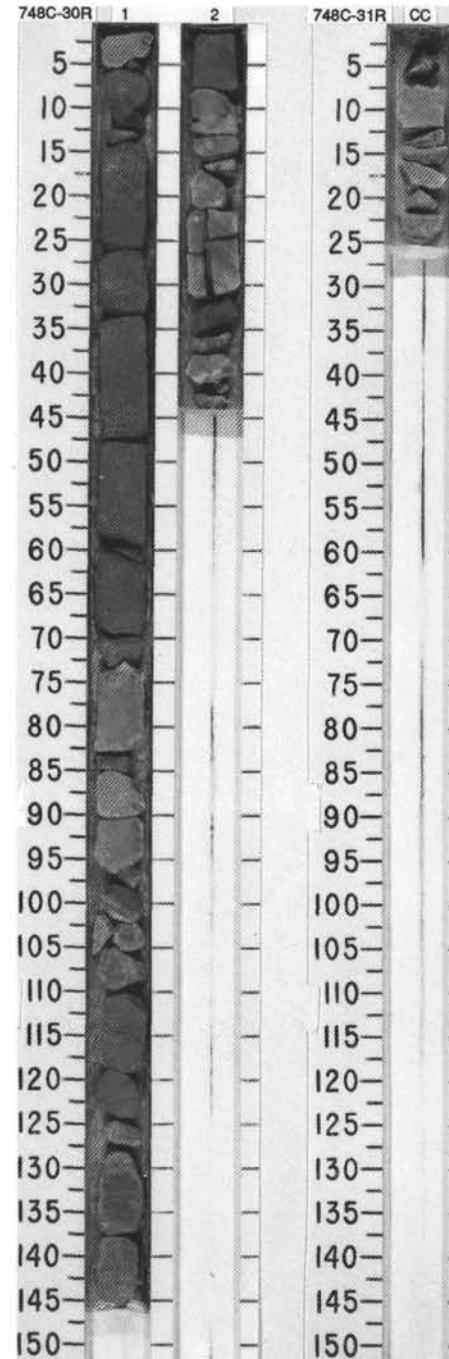
Major lithology: SILICIFIED, VERY COARSE to COARSE-GRAINED GLAUCONITIC BIOCLASTIC GRAINSTONE, pale olive (10Y 6/2), moderately well-sorted. Clasts are angular to subrounded, and include bryozoan and mollusc (and brachiopod?) debris, sponge spicules, basalt clasts, echinid spines, inoceramid prisms, and pyrite.

## SMEAR SLIDE SUMMARY (%):

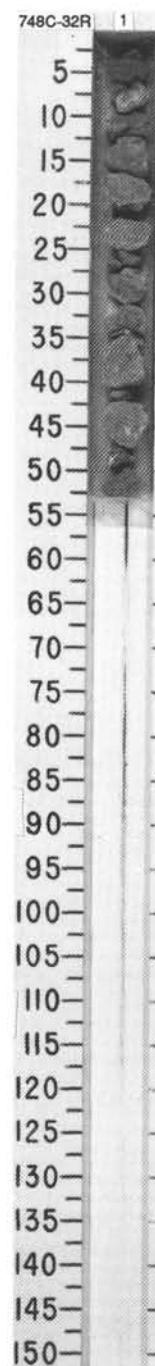
CC, 6  
D

## COMPOSITION:

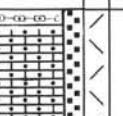
Algae	8
Altered grains	Tr
Bivalves	5
Bryozoa	5
Calcareous fragments	10
Chalcedony	10
Foraminiflers	15
Glauconite	2
Micrite	30
Pyrite	Tr
Silica	Tr
Spicules	Tr



SITE 748 HOLE C CORE 32R CORED INTERVAL 454.5-464.0 mbsf

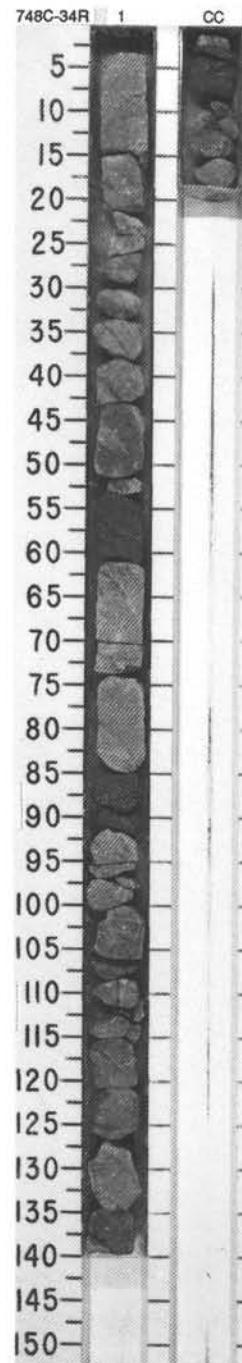


SITE 748 HOLE C CORE 33R CORED INTERVAL 464.0-473.5 mbsf

TIME - ROCK UNIT	BIOSTRAT., ZONE/ FOSSIL CHARACTER					PALEOMAGNETICS					LITHOLOGIC DESCRIPTION				
	FORAMINIFERS	NANOFOSSELS	RADIOLARIANS	DIATOMS		PHYS. PROPERTIES	CHEMISTRY	SECTION	GRAPHIC LITHOLOGY	METERS	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES		
no sample						$\text{CaCO}_3 = 20.41\%$	$\text{OC} = 0.248\%$	1		0	/ / /	#		VERY COARSE-GRAINED GLAUCONITIC BIOCLASTIC GRAINSTONE	
Barren										0.5				Major lithology: VERY COARSE-GRAINED GLAUCONITIC BIOCLASTIC GRAINSTONE, olive (10Y 5/2 when wet, 10Y 6/2 when dry), coarsening toward base to a rudstone in 5-cm-sized drilling biscuits. Well-sorted and porous with no matrix. Angular clasts include abundant bryozoa, common glauconite, sponge spicules, echinoid spines, rare quartz, pyrite, and a reddish, translucent mineral (phosphate?). Fossils are fragmented and bed-parallel.	
no sample										1.0				N.B.: no CC.	
no sample														SMEAR SLIDE SUMMARY (%):	
														1, 55	
														D	
														COMPOSITION:	
														Algae	3
														Altered grains	Tr
														Bivalves	5
														Bryozoa	30
														Calcareous fragments	10
														Chalcedony	5
															10
														Fish	2
														Foraminifers	5
														Glauconite	5
														Micrite	15
														Silica	5
														Spicules	5

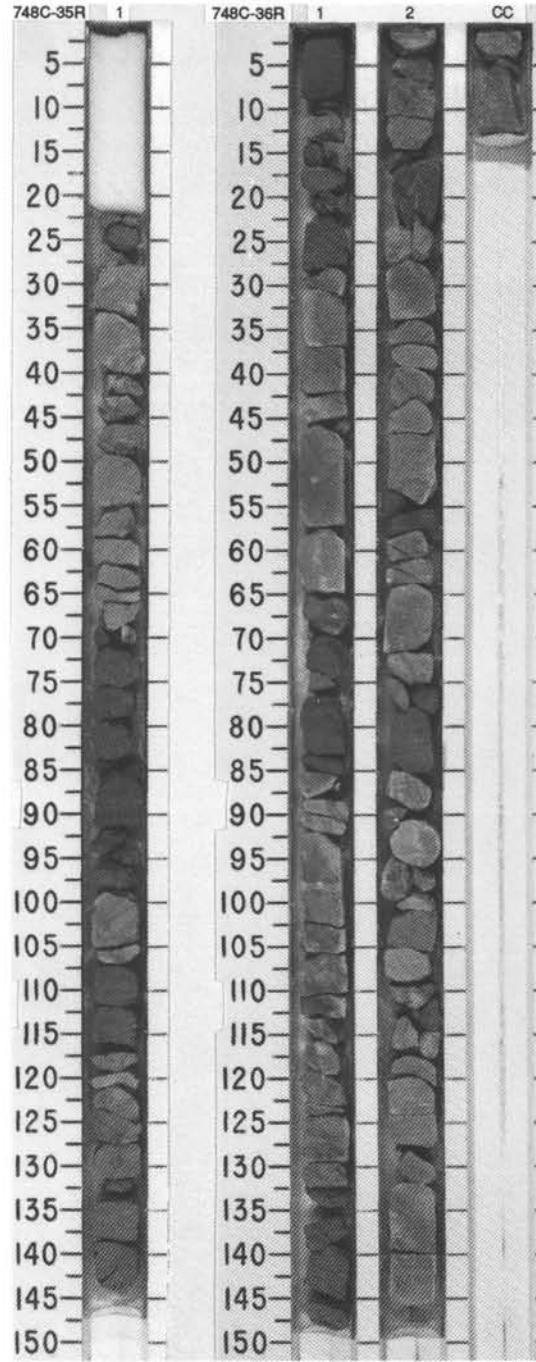


SITE 748 HOLE C CORE 34R CORED INTERVAL 473.5-483.0 mbsf

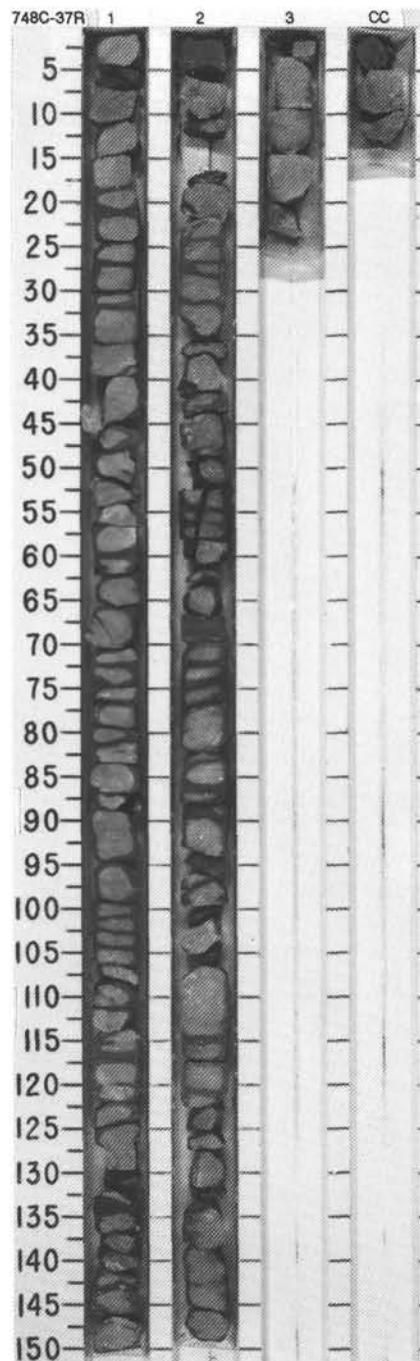


SITE 748 HOLE C CORE 35R CORED INTERVAL 483.0-492.5 mbsf

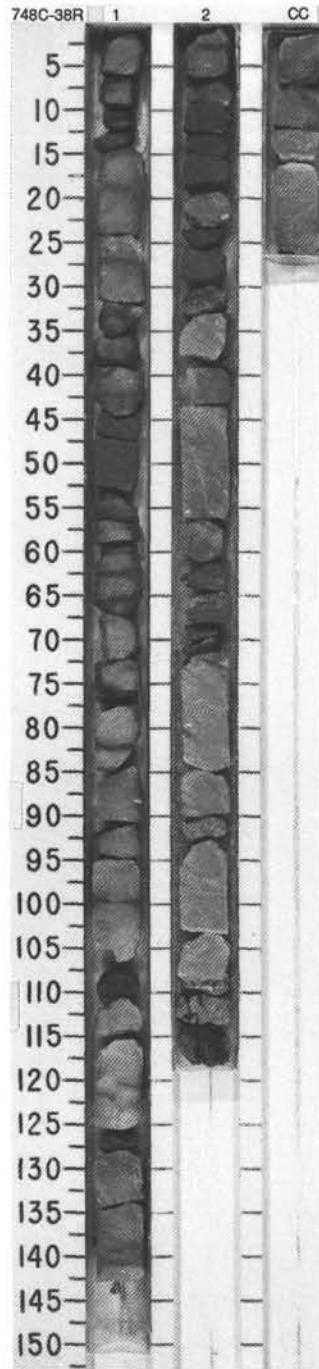
SITE 748 HOLE C CORE 36R CORED INTERVAL 492.5-502.0 mbsf



SITE 748 HOLE C CORE 37R CORED INTERVAL 502.0-511.5 mbsf



SITE 748 HOLE C CORE 38R CORED INTERVAL 511.5-521.0 mbsf

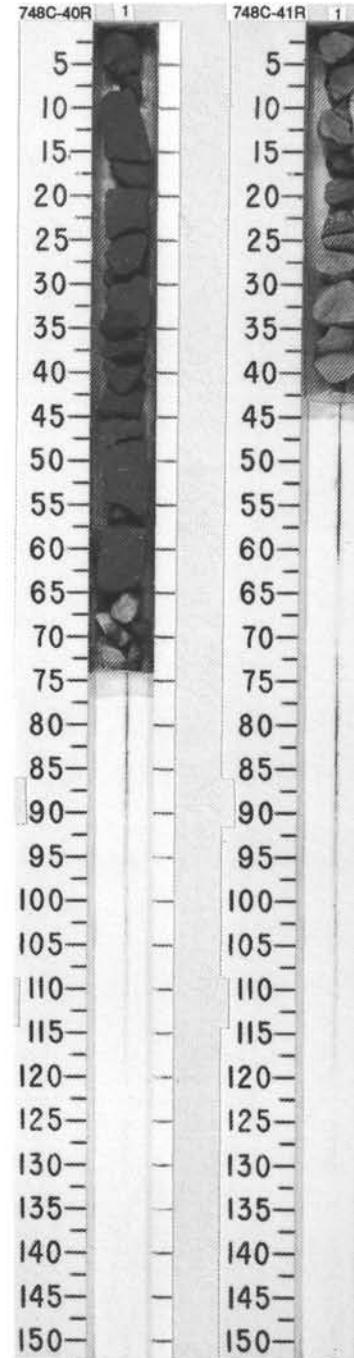


SITE 748 HOLE C CORE 39R CORED INTERVAL 521.0-530.5 mbsf



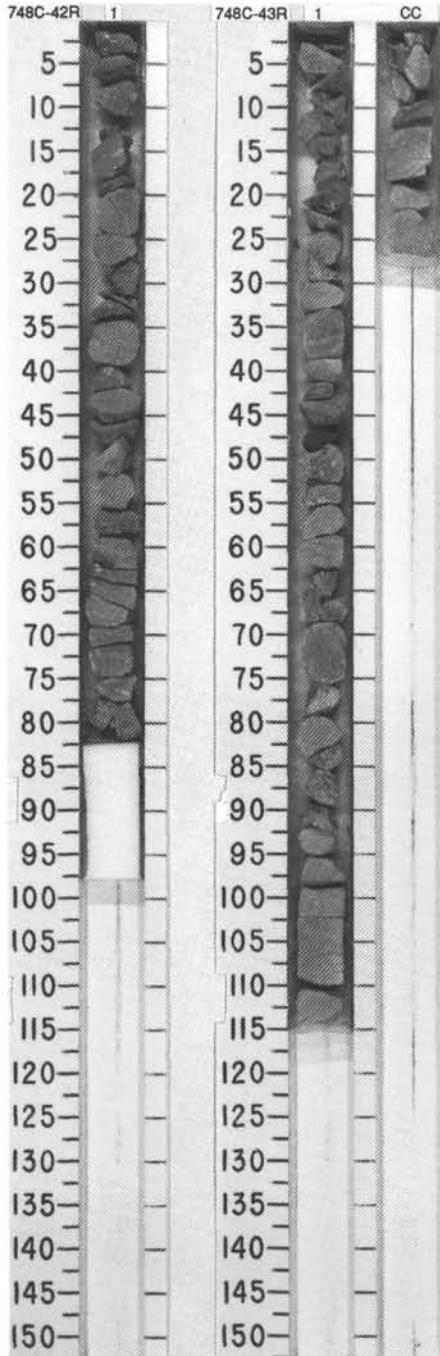
SITE 748 HOLE C CORE 40R CORED INTERVAL 530.5-540.0 mbsf

SITE 748 HOLE C CORE 41R CORED INTERVAL 540.0-549.5 mbsf



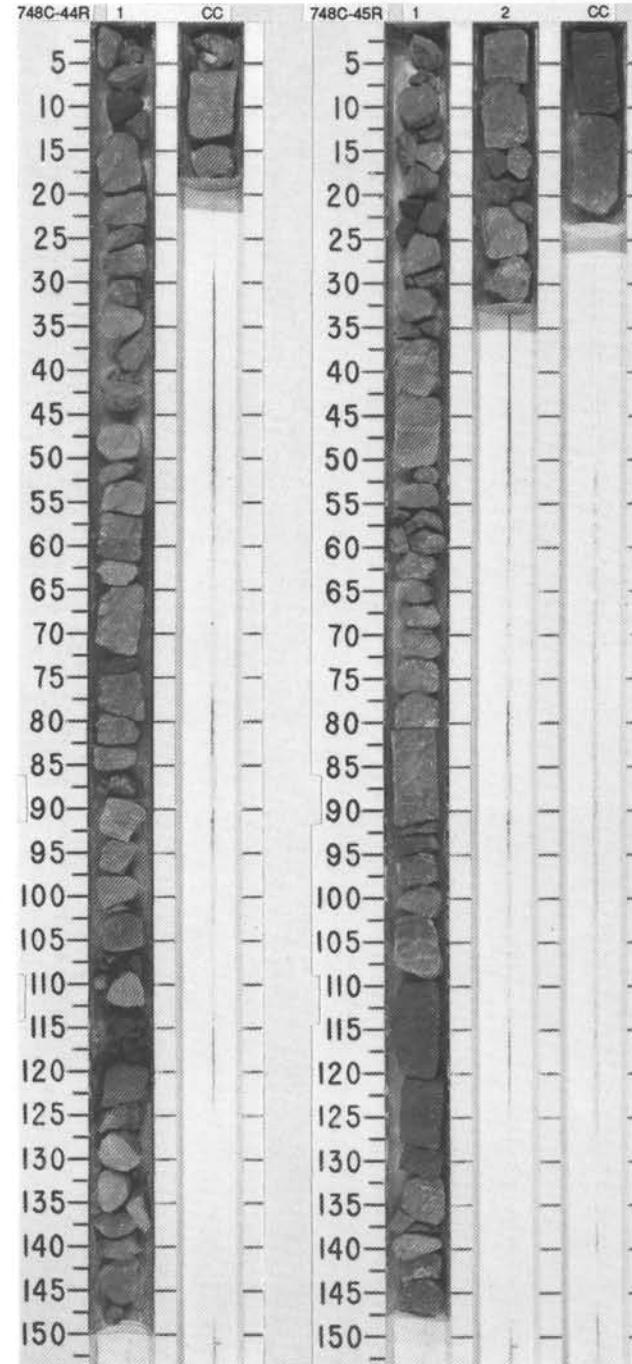
SITE 748 HOLE C CORE 42R CORED INTERVAL 549.5-559.0 mbsf

SITE 748 HOLE C CORE 43R CORED INTERVAL 559.0-568.5 mbsf

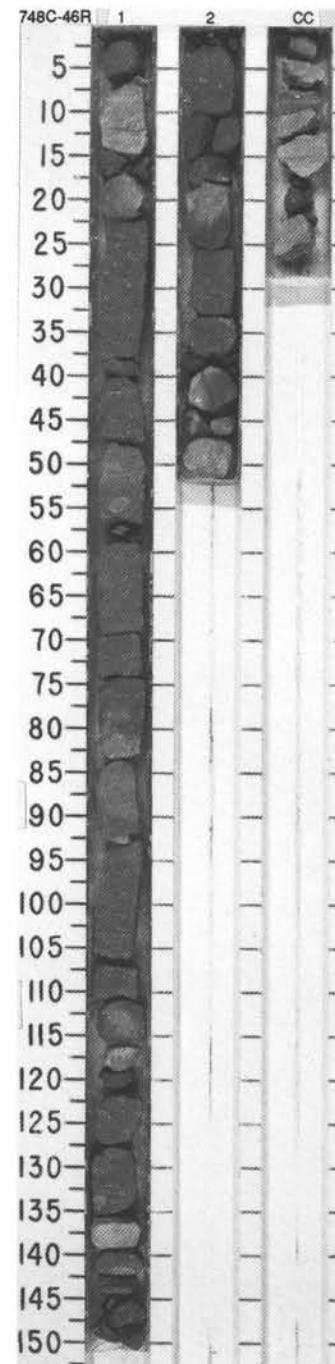


SITE 748 HOLE C CORE 44R CORED INTERVAL 568.5-578.0 mbsf

SITE 748 HOLE C CORE 45R CORED INTERVAL 578.0-587.5 mbsf



SITE 748 HOLE C CORE 46R CORED INTERVAL 587.5-597.0 mbsf



SITE 748 HOLE C CORE 47R CORED INTERVAL 597.0-606.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/FOSSIL CHARACTER				GRAPHIC LITHOLOGY				LITHOLOGIC DESCRIPTION			
	FORAMINIFERS	NANNOFOSILS	RADIOLARIANS	DIATOMS	PALAEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
UPPER CAMPANIAN												
Barren												
CRETACEOUS	Upper <i>Quadratum tritidum</i>	F/M										
UPPER to MIDDLE ? CAMPANIAN	Barren											

INTERMITTENTLY SILICIFIED BIOCLASTIC PACKSTONE WITH GLAUCONITE  
Major lithology: INTERMITTENTLY SILICIFIED BIOCLASTIC PACKSTONE with GLAUCONITE, olive (SY 5/4 to SY 5/3), moderately well sorted, coarse to medium sized grains. Clasts include abundant bryozoan and mollusc debris, common glauconite, rare crinoid columns and pyrite; inoceramids very rare. Mollusc and bryozoan debris lie along bedding planes. Burrowed, with burrows cross-cutting in some planes. Mud-rich intervals are in Section 1, 90-99 cm, 104-112 cm, and 128-136 cm.

SMEAR SLIDE SUMMARY (%):

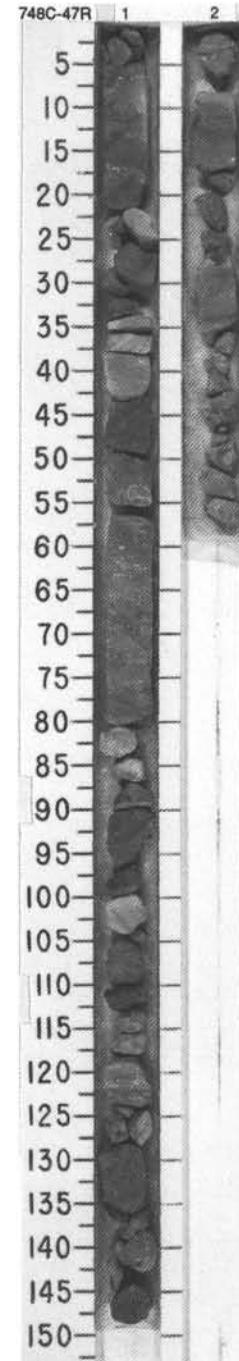
1, 72	2, 55
D	D

TEXTURE:

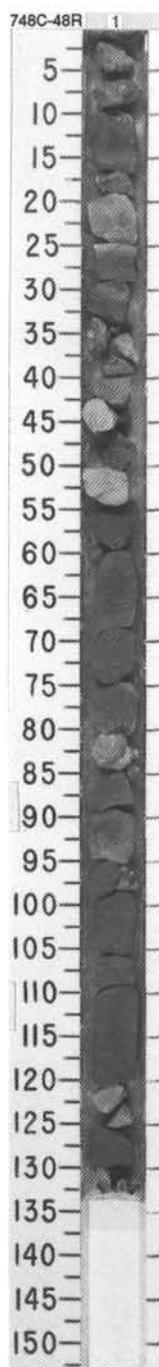
Sand	30	10
Silt	55	80
Clay	15	10

COMPOSITION:

Apatite	1	—
Calcareous fragments	65	85
Clay	15	2
Foraminifers	—	2
Glauconite	5	Tr
Micrite	5	10
Phosphate	1	—
Pyrite	Tr	Tr
Quartz	Tr	—
Silica	3	—



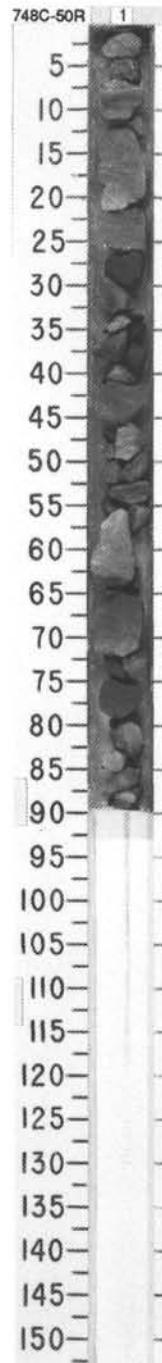
SITE 748 HOLE C CORE 48R CORED INTERVAL 606.5-616.0 mbsf



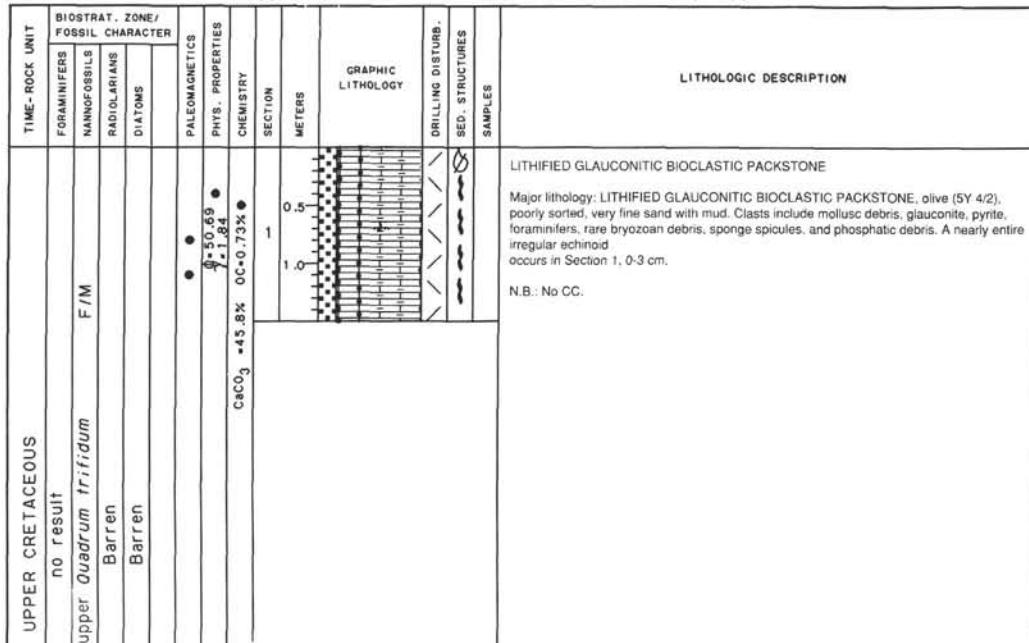
SITE 748 HOLE C CORE 49R CORED INTERVAL 616.0-625.5 mbst



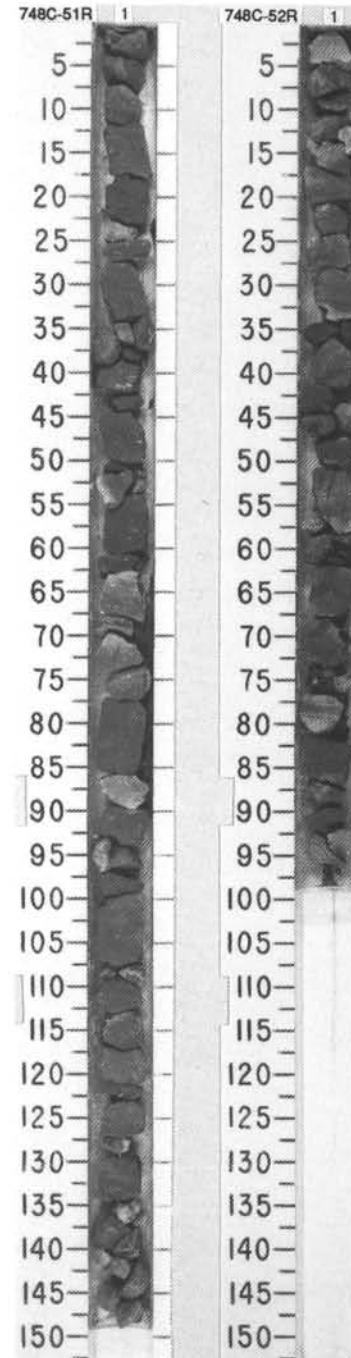
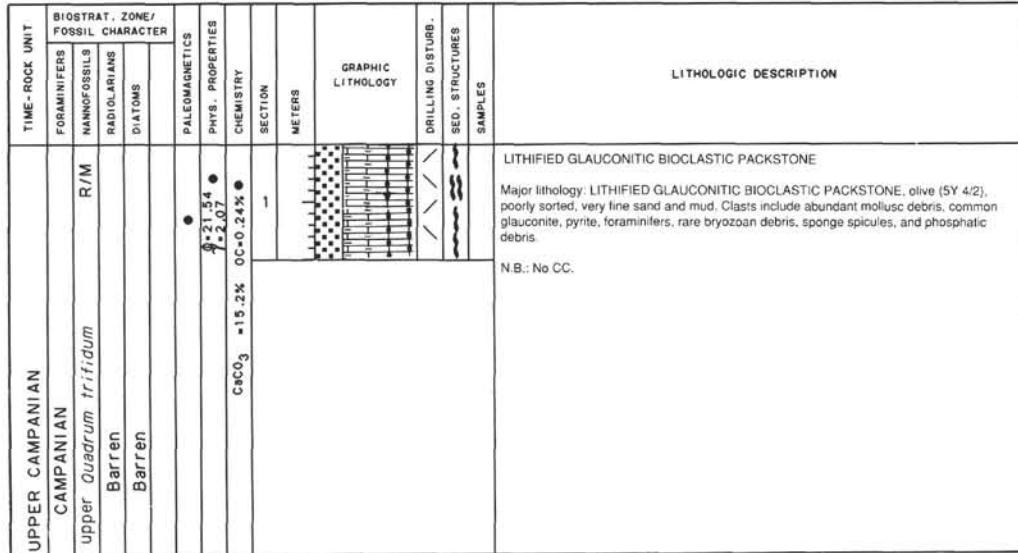
SITE 748 HOLE C CORE 50R CORED INTERVAL 625.5-635.0 mbs



SITE 748 HOLE C CORE 51R CORED INTERVAL 635.0-644.5 mbsf



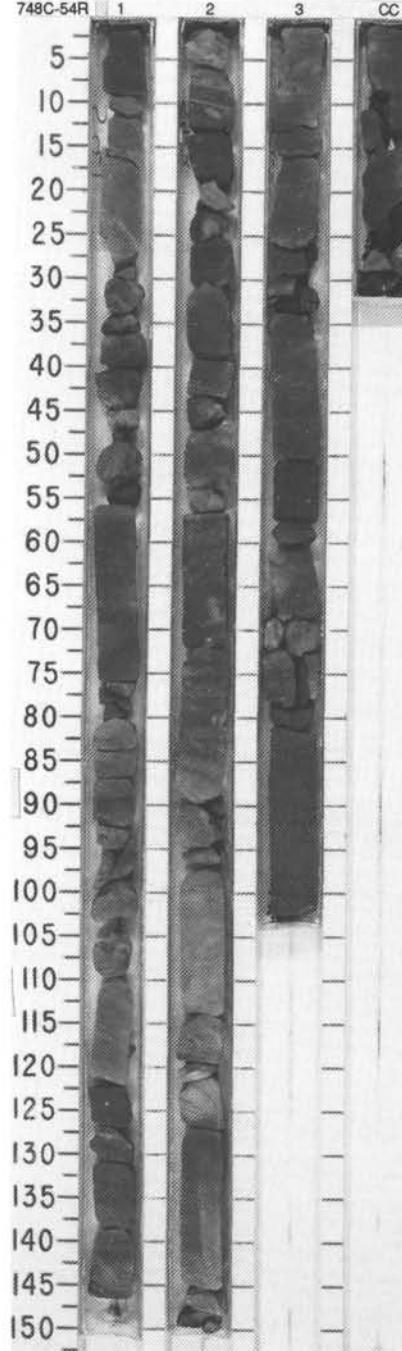
SITE 748 HOLE C CORE 52R CORED INTERVAL 644.5-654.0 mbsf



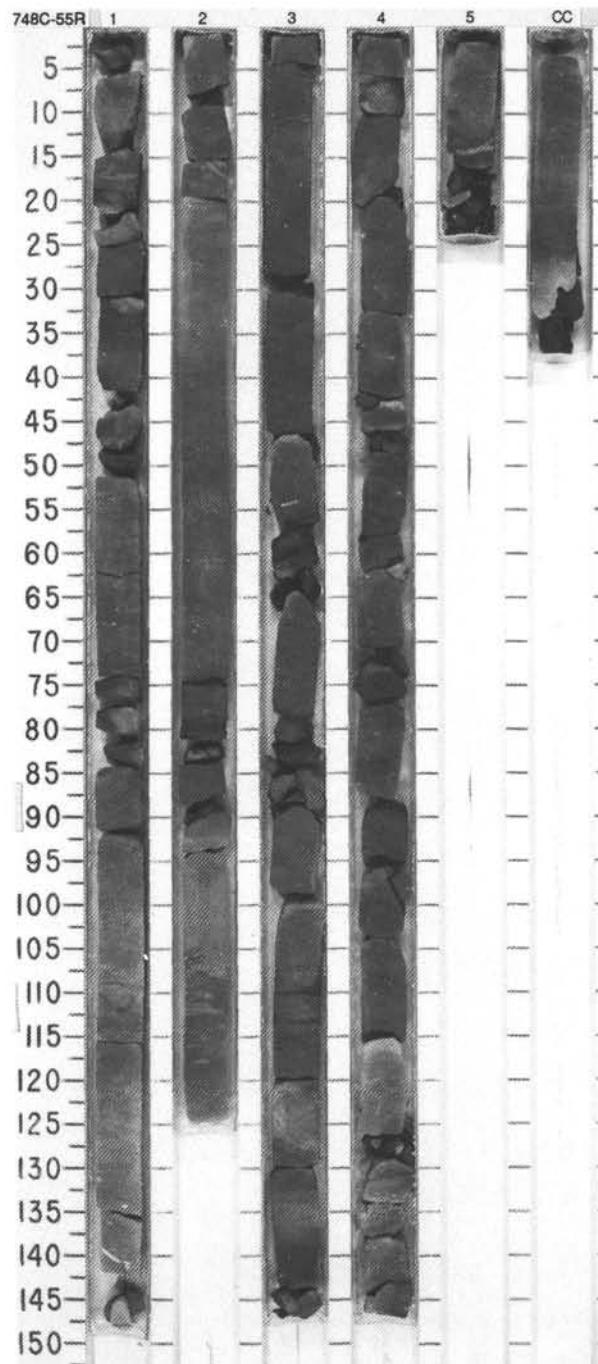
SITE 748 HOLE C CORE 53R CORED INTERVAL 654.0-663.5 mbsf



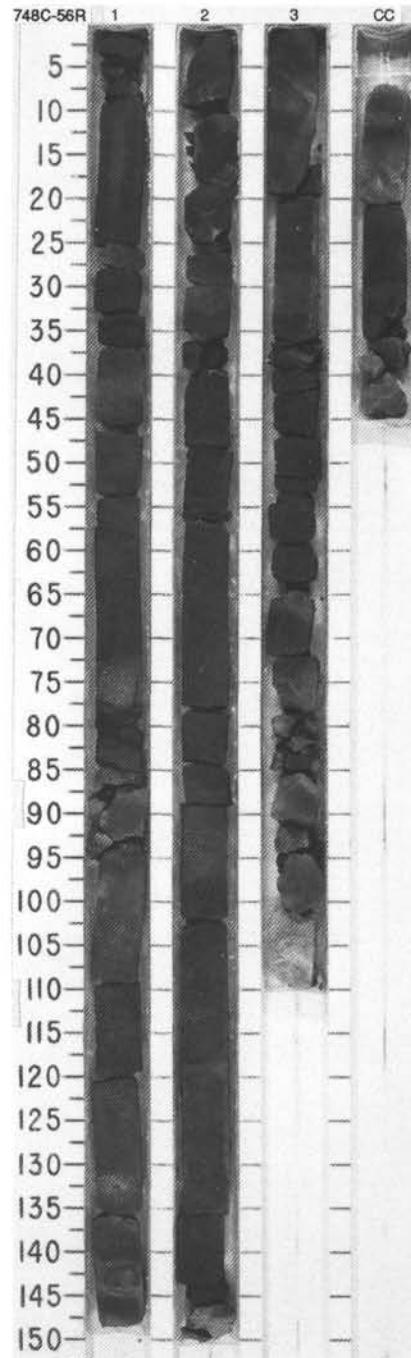
SITE 748 HOLE C CORE 54R CORED INTERVAL 663.5-673.0 mbst



SITE 748 HOLE C CORE 55R CORED INTERVAL 673.0-682.5 mbsf



SITE 748 HOLE C CORE 56R CORED INTERVAL 682.5-692.0 mbsf

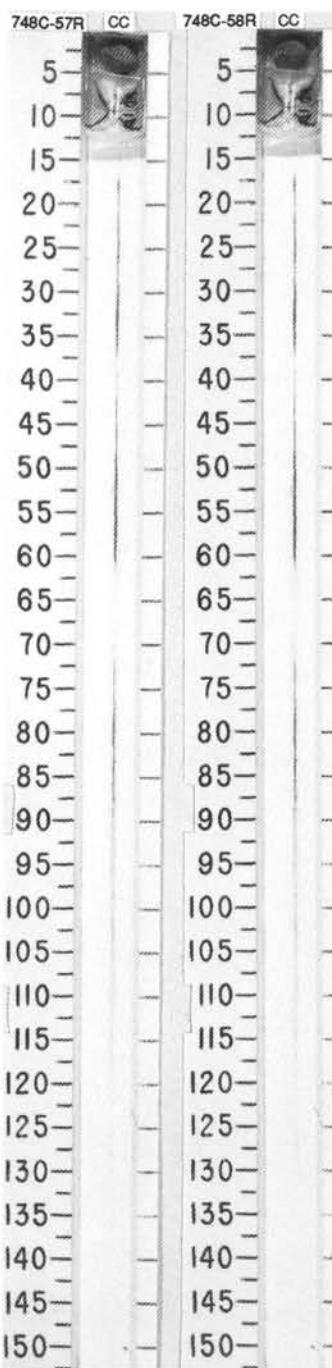


## SITE 748 HOLE C CORE 57R CORED INTERVAL 692.0-701.5 mbsf

TIME - ROCK UNIT	BIOSTRAT., ZONE/FOSSIL CHARACTER				PALEOMAGNETICS				PHYS. PROPERTIES				CHEMISTRY				GRAPHIC LITHOLOGY				DRILLING DISTURB., SED. STRUCTURES				LITHOLOGIC DESCRIPTION			
	FORAMINIFERS	NANNOFOSILS	RADIOLARIANS	DIATOMS	SECTION	METERS	SECTION	METERS	SECTION	METERS	SECTION	METERS	SECTION	METERS	SECTION	METERS	SECTION	METERS	SECTION	METERS	SECTION	METERS	SECTION	METERS	SECTION	METERS		
no sample					CC		CC																			SILICIFIED CLAYEY GLAUCONITIC SANDSTONE Major lithology: SILICIFIED CLAYEY GLAUCONITIC SANDSTONE, gray (5G 4/2), occurs as a fragment in the CC.		

## SITE 748 HOLE C CORE 58R CORED INTERVAL 701.5-711.0 mbsf

UPPER CAMPANIAN	TIME - ROCK UNIT				BIOSTRAT., ZONE/FOSSIL CHARACTER				PALEOMAGNETICS				PHYS. PROPERTIES				CHEMISTRY				GRAPHIC LITHOLOGY				DRILLING DISTURB., SED. STRUCTURES				LITHOLOGIC DESCRIPTION																					
	FORAMINIFERS	NANNOFOSILS	RADIOLARIANS	DIATOMS	SECTION	METERS	SECTION	METERS	SECTION	METERS	SECTION	METERS	SECTION	METERS	SECTION	METERS	SECTION	METERS	SECTION	METERS	SECTION	METERS	SECTION	METERS	SECTION	METERS	SECTION	METERS																						
SANTONIAN - CAMPANIAN lower <i>Quadrum tridium</i> Barren Barren					CC		CC																			SILICIFIED CLAYEY GLAUCONITIC SANDSTONE Major lithology: SILICIFIED CLAYEY GLAUCONITIC SANDSTONE, grayish green (5G 4/2), occurs as a single hard, rounded, cemented piece in the CC. Two kinds of glauconite, black and light green occur, as do flakes of apatite (fish debris?), chalcedony spheres, silica cement replacing fossil molds, feldspar, possible zeolite, and rare siderite.  SMEAR SLIDE SUMMARY (%): CC CC, 1 D D  TEXTURE: Sand — 5 Silt — 60 Clay — 35  COMPOSITION: Altered grains 10 10 Chalcedony 10 — Clay — 35 Feldspar — 5 Fish Tr — Glauconite 40 10 Opacites Tr 3 Pyrite Tr — Quartz — 3 Silica 25 30 Spicules 10 —																								

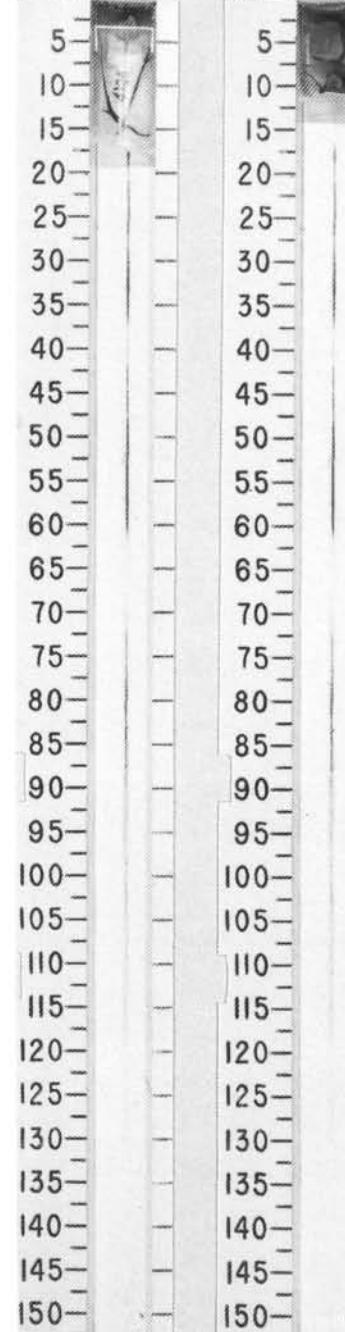


## SITE 748 HOLE C CORE 59R CORED INTERVAL 711.0-722.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/FOSSIL CHARACTER						LITHOLOGIC DESCRIPTION						
	FORAMINIFERS	NANNOFOSSELS	RADIOLARIANS	DIATOMS	PALAEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
	Barren	no sample	no sample	no sample				CC	1				

SILICIFIED CLAYEY GLAUCONITIC SANDSTONE  
Major lithology: SILICIFIED CLAYEY GLAUCONITIC SANDSTONE, gray (5G 4/2), occurs as one 5-cc diameter piece in the CC. Fine sand sized, poorly sorted, composed mostly of glauconite; cemented by light olive silica. Rare foraminifer tests, common pyrite, ferruginous red specks.

## 748C-59R CC 748C-60R CC



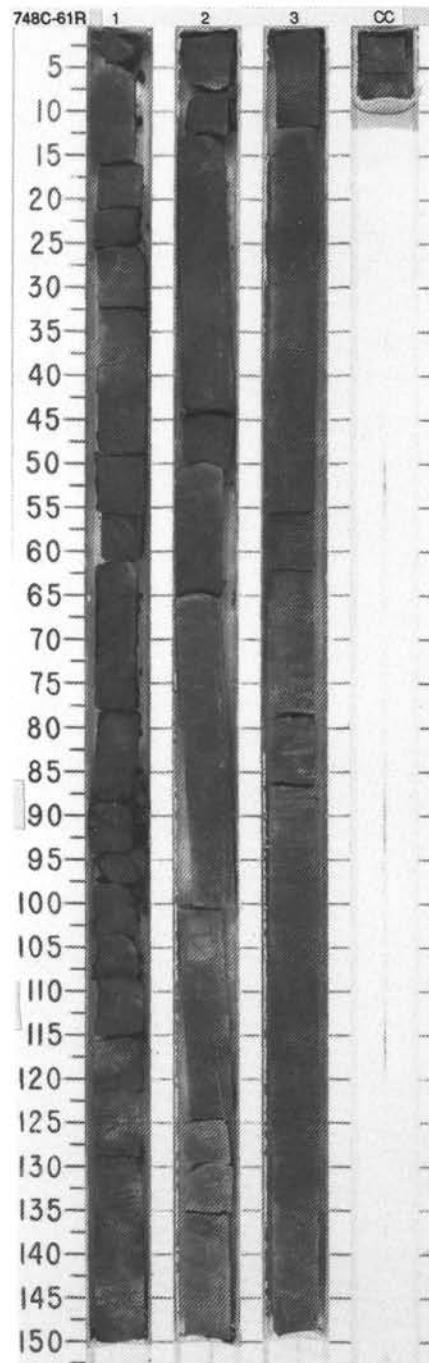
## SITE 748 HOLE C CORE 60R CORED INTERVAL 722.5-727.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/FOSSIL CHARACTER						LITHOLOGIC DESCRIPTION						
	FORAMINIFERS	NANNOFOSSELS	RADIOLARIANS	DIATOMS	PALAEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
	no sample	Barren	Barren	dissolved fragment				CC	1				

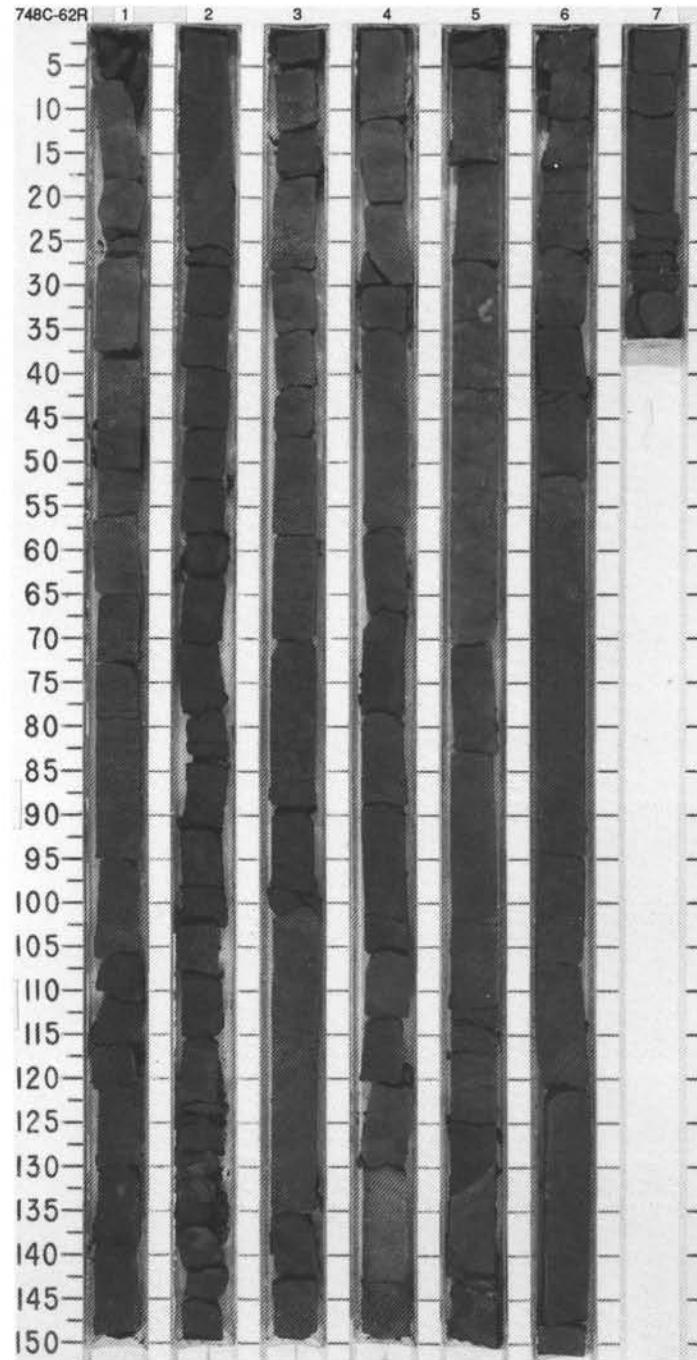
SILICIFIED CLAYEY GLAUCONITIC SANDSTONE  
Major lithology: SILICIFIED CLAYEY GLAUCONITIC SANDSTONE, dark gray green (5G 4/2); occurs as fragments in the CC. Well-sorted fine sand, faint parallel bedding. Clasts are dominated by glauconite and silicic grains (isotropic), with rare pyrite and red ferruginous specks.

SMEAR SLIDE SUMMARY (%):

CC. 1	M
TEXTURE:	
Silt	40
Clay	60
COMPOSITION:	
Accessory minerals	5
Altered grains	10
Clay	40
Feldspar	5
Glauconite	10
Opaques	15
Quartz	5
Rock fragment	5
Silica	5



SITE 748 HOLE C CORE 62R CORED INTERVAL 732.5-742.0 mbsf





SITE 748 HOLE C CORE 64R CORED INTERVAL 751.5-761.0 mbsf



## SITE 748 HOLE C CORE 65R CORED INTERVAL 761.0-770.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/FOSSIL CHARACTER				PALEOMAGNETICS				PHYS. PROPERTIES				CHEMISTRY				GRAPHIC LITHOLOGY				LITHOLOGIC DESCRIPTION				
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																					
	Barren	Barren	Barren	Barren																					

Major lithology: CLAYEY SILTSTONE with GLAUCONITE, black (5Y 2.5/2); moderately indurated. Finely laminated in Section 1, 16-27 cm; small mm-scale burrows (Chondrites) in Section 1, 43-57 cm. "Altered" grains comprise 25% of the sediment. No biogenic components identified.

Drilling disturbance: Highly fractured, Section 1, 0-6 cm; moderately fractured, Section 1, 6-79 cm.

N.B.: No CC.

SMEAR SLIDE SUMMARY (%):

1, 40	D
-------	---

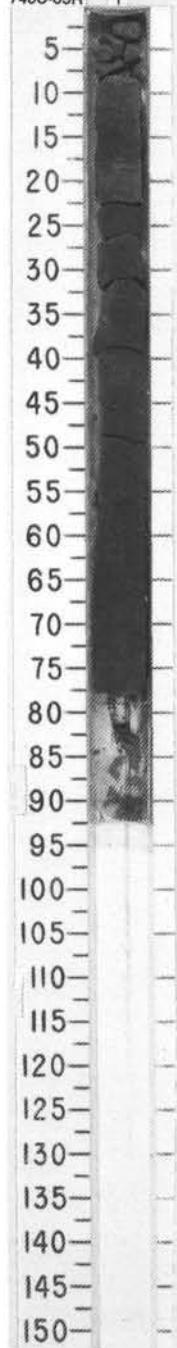
TEXTURE:

Sand	25
Silt	45
Clay	30

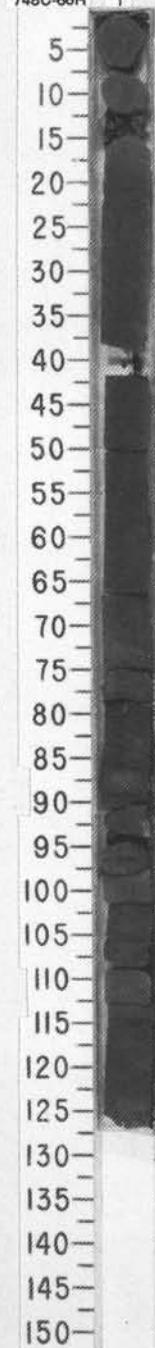
COMPOSITION:

Clay	30
Glaucosite	19
Heavy minerals	1
Opaques	5
Quartz	15
Unknown	25
Zeolite	5

## 748C-65R 1



## 748C-66R 1



## SITE 748 HOLE C CORE 66R CORED INTERVAL 770.5-780.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/FOSSIL CHARACTER				PALEOMAGNETICS				PHYS. PROPERTIES				CHEMISTRY				GRAPHIC LITHOLOGY				LITHOLOGIC DESCRIPTION				
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																					
	Barren	Barren	Barren	Barren																					

Major lithology: GLAUCONITIC CLAYEY SILTSTONE, black (5Y 2.5/2); burrowed with Chondrites, especially in Section 1, 17-25 cm, and 114-128 cm; finely laminated in Section 1, 75-80 cm and 90-110 cm. Slightly fractured by drilling.

N.B.: No CC.

SMEAR SLIDE SUMMARY (%):

1, 75	D
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TEXTURE:

Sand	15
Silt	50
Clay	35

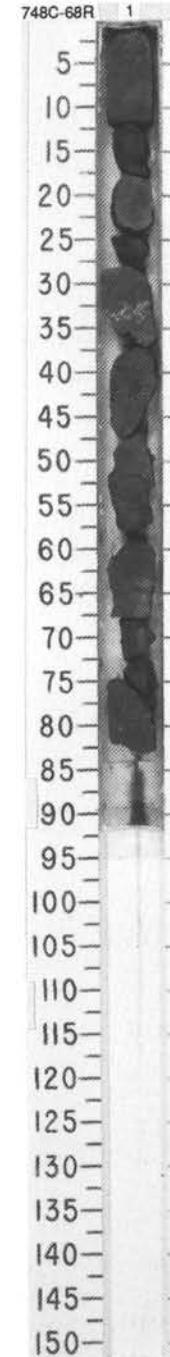
COMPOSITION:

Clay	35
Feldspar	2
Glaucosite	40
Quartz	5
Unknown	8
Zeolite	5

SITE 748 HOLE C CORE 67R CORED INTERVAL 780.0-789.5 mbs

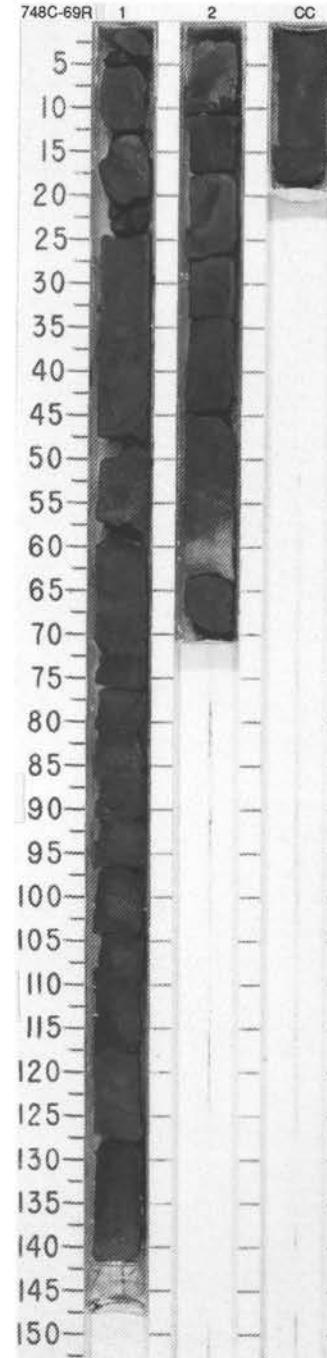


SITE 748 HOLE C CORE 68R CORED INTERVAL 789.5-797.5 mbst

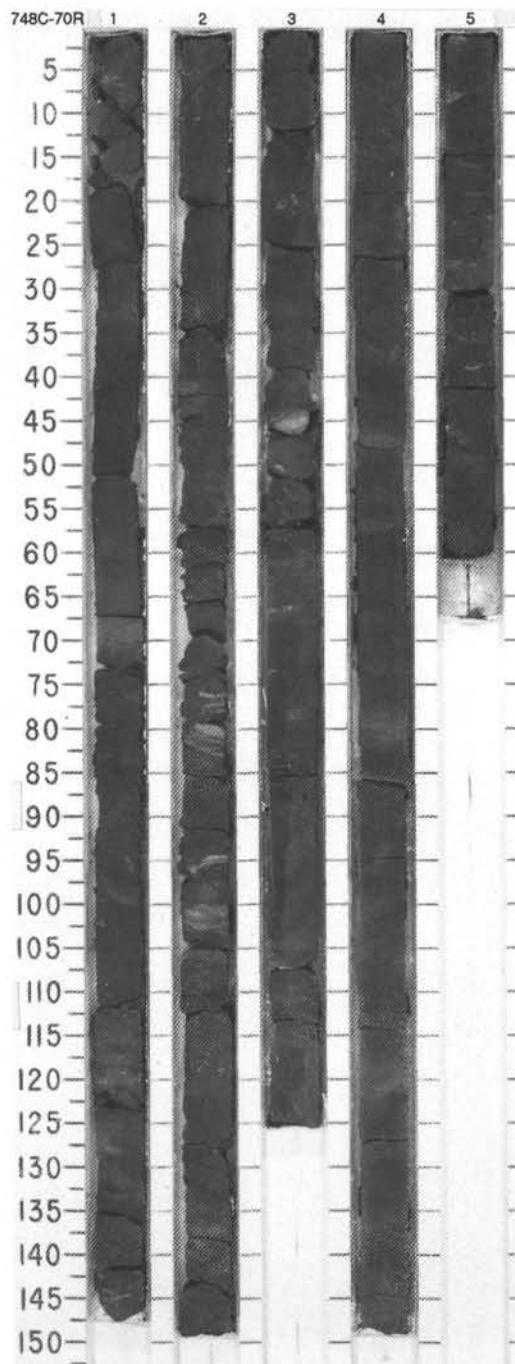


SITE 748 HOLE C CORE 69R CORED INTERVAL 797.5-807.0 mbsf

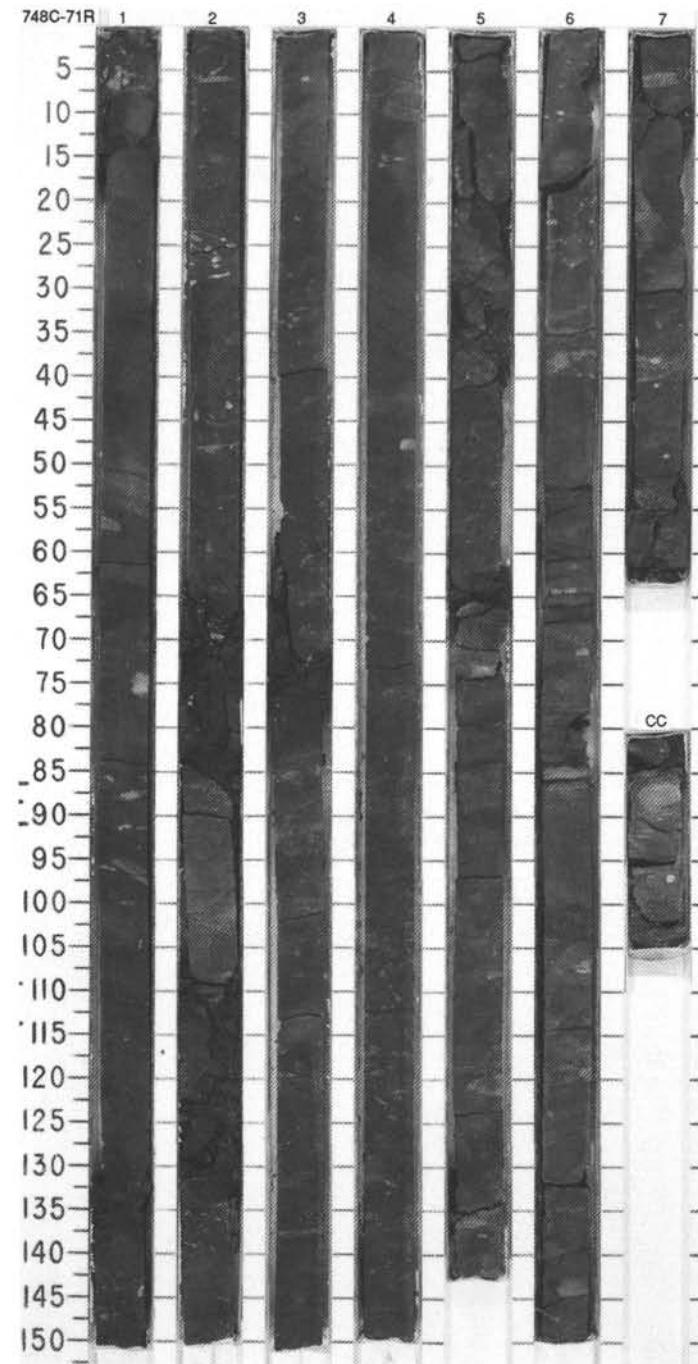
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PALEOMAGNETICS					LITHOLOGIC DESCRIPTION				
	FORAMINIFERS	NANOFOSSELS	RADIOLARIANS	DIAVONS		PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES		
Barren						CaCO <sub>3</sub> -2.3%	OC-0.16%	●	0.49.03 0.22.11	●	●	●	●		GLAUCONITIC SILTSTONE WITH ZEOLITES
Barren								1	0.5	●	●	●	●		Major lithology: GLAUCONITIC SILTSTONE with ZEOLITES, black (5Y 2.5/1), homogeneous and moderately indurated throughout. Moderately burrowed, with Zoophycos in Section 1, 66-67 cm; Planolites in Section 1, 0-91 cm; and Chondrites in Section 1, and 0-91 cm, and in 129-137 cm; and in Section 2, 2-10 cm. Large burrow (Thalassinoides?) in Section 2, 8-16 cm; finely laminated on mm-scale in Section 1, and in 90-95 cm; Section 2, 23-28 cm and 42-58 cm.
not Sampled								2	1.0	●	●	●	●	*	Minor lithology: Claystone, gray (5Y 5/1), in Section 1, 140-141 cm. Sideritic silty claystone, gray (5Y 5/1), in Section 2, 52-54 cm. Sharp, irregular, somewhat burrowed contacts with siltstone.
Barren										VOID					Drilling disturbance: Moderately fractured throughout.
															SMEAR SLIDE SUMMARY (%):
															1, 93      1, 140      2, 54      2, 60 D            M            M            M
															TEXTURE:
															Sand      30      3      30      2 Silt      45      25      40      43 Clay      25      72      30      55
															COMPOSITION:
															Clay      Tr      Tr      Tr      — Feldspar   Tr      —      —      — Glauconite   45      9      50      8 Opalines   5      9      10      — Phosphate   —      —      Tr      Tr Quartz   10      3      5      2 Siderite   —      4      —      40 Zeolite   15      5      —      —



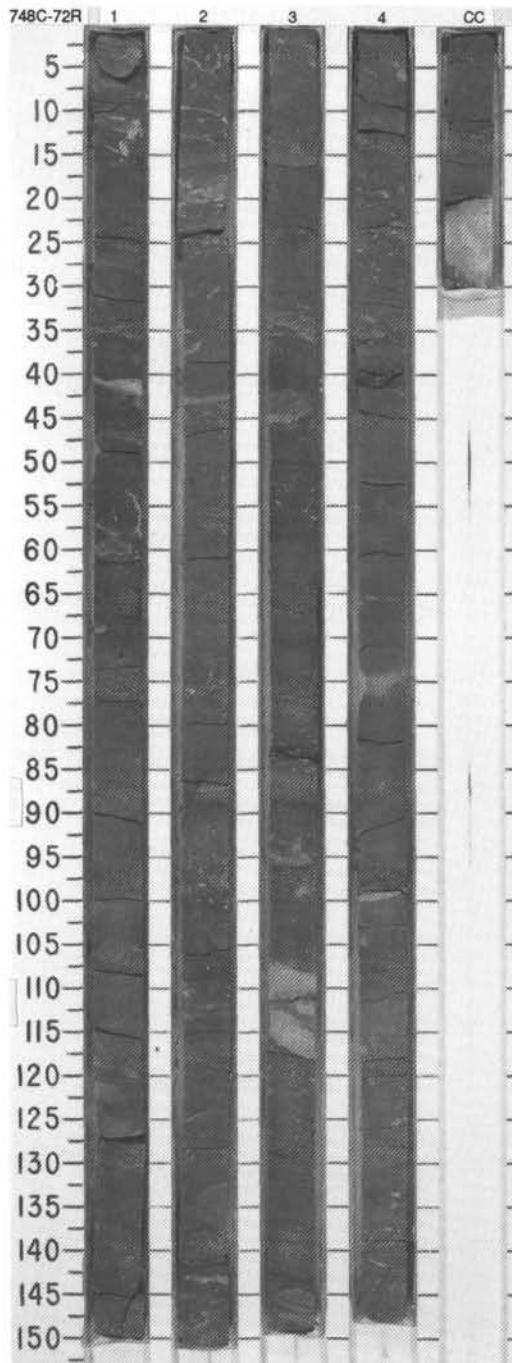
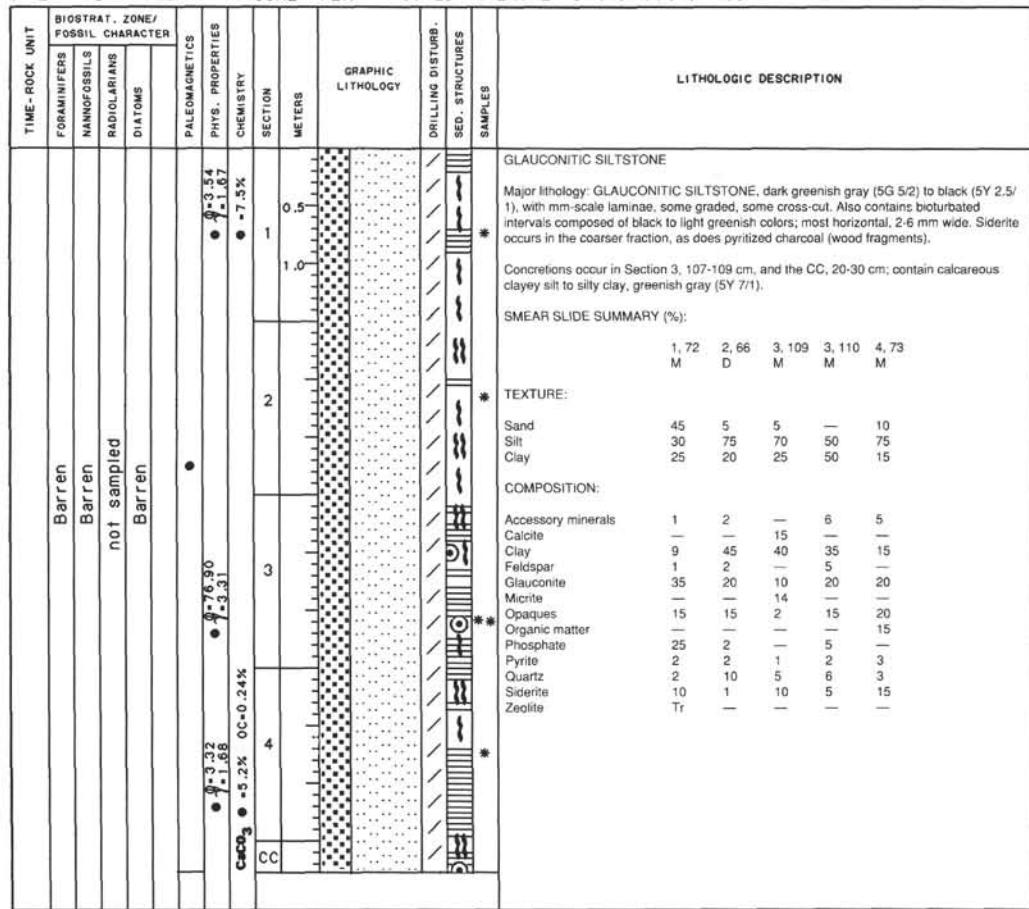
SITE 748 HOLE C CORE 70R CORED INTERVAL 807.0-816.5 mbsf



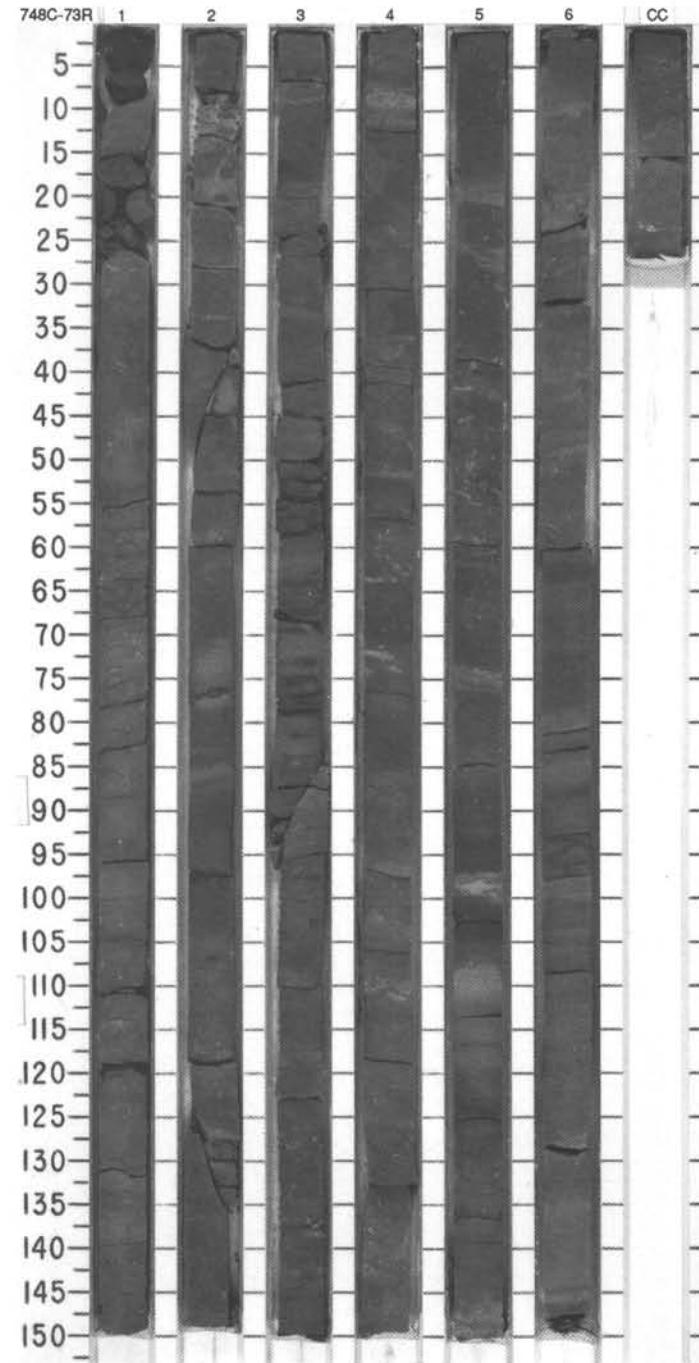
SITE 748 HOLE C CORE 71R CORED INTERVAL 816.5-826.5 mbsf



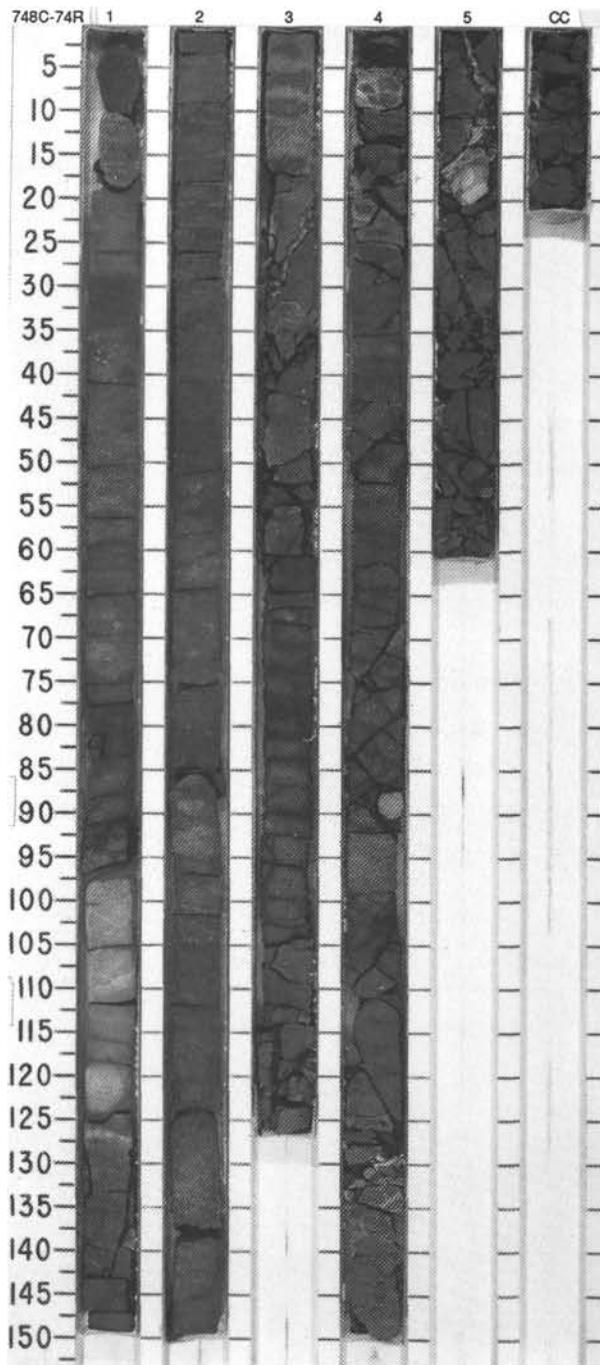
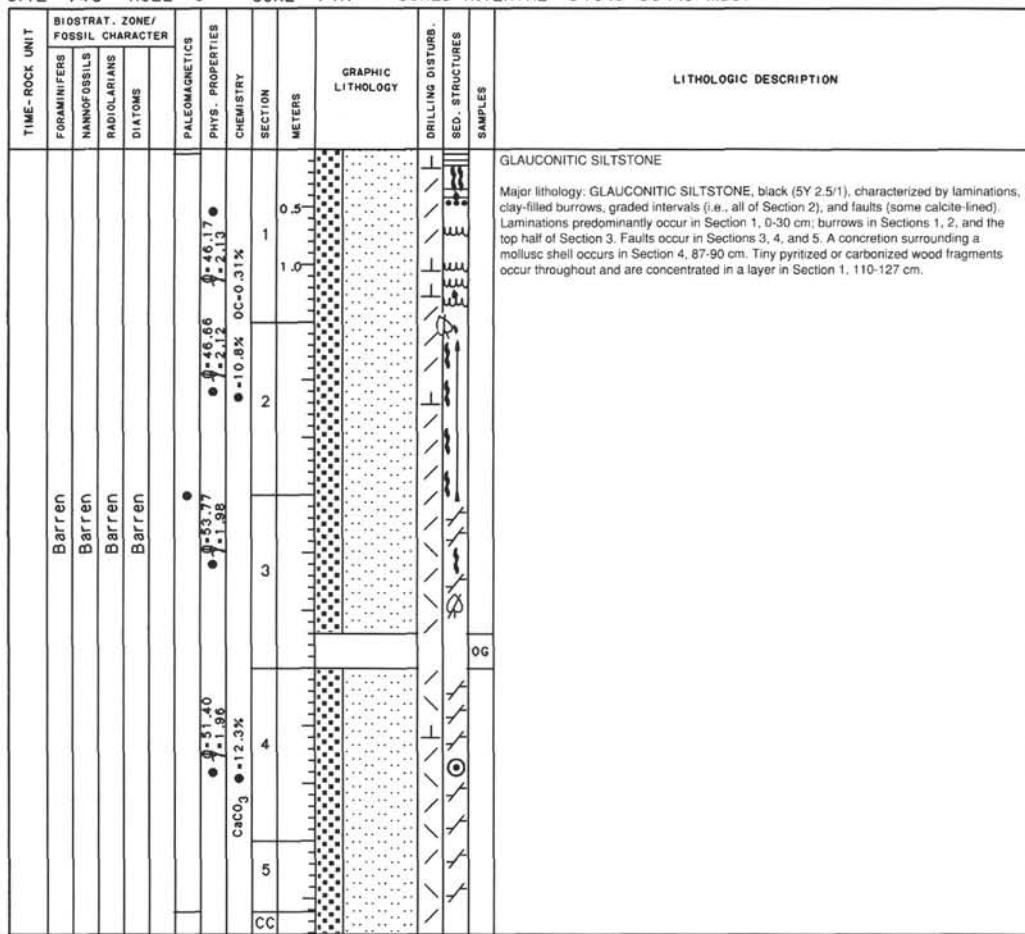
SITE 748 HOLE C CORE 72R CORED INTERVAL 826.5-835.5 mbsf



SITE 748 HOLE C CORE 73R CORED INTERVAL 835.5-845.0 mbsf



SITE 748 HOLE C CORE 74R CORED INTERVAL 845.0-854.5 mbsf



SITE 748 HOLE C CORE 75R CORED INTERVAL 854.5-864.0 mbsf

TIME-ROCK UNIT	BIOSTRAT., ZONE/FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION		
	FORAMINIFERS	NANOFOSSELS	RADIOLARIANS	DIATOMS								SECTION	METERS	
Barren					• 9-41.54 • 9-2.21 CaCO <sub>3</sub> • -38.9%	• 9-50.32 • 9-2.20 • -5.8% OC-0.21%	• 9-54.99 • 9-2.09					0.5	1	0.5
Barren												1	1	1
Barren												2	2	2
Barren												3	3	3
												4	4	4
												5	5	5
												6	6	6
												CC	CC	CC

## GLAUCONITIC SILTSTONE

Major lithology: GLAUCONITIC SILTSTONE, dark greenish gray (SG 4/1) and black (SY 2.5/1); moderately indurated throughout. Massive, laminated on a cm-scale. Slightly fissile in Section 6. Burrowed throughout with laminae in Section 6, 2-4 cm and 26-29 cm. Variable carbonate content in cements in Section 3, 51-53 cm, and Section 4, 59-60 cm.

## SMEAR SLIDE SUMMARY (%):

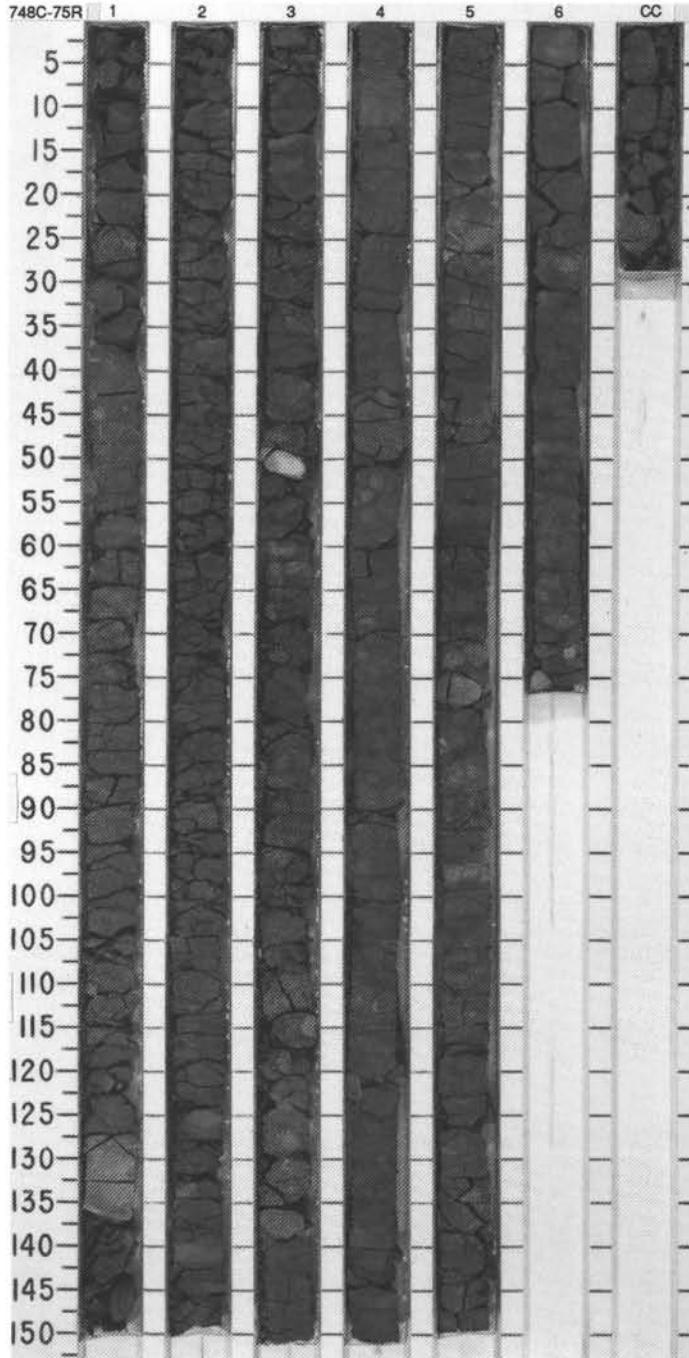
2, 77	3, 50	5, 65
D	M	D

## TEXTURE:

Sand	15	25	25
Silt	65	70	55
Clay	20	5	20

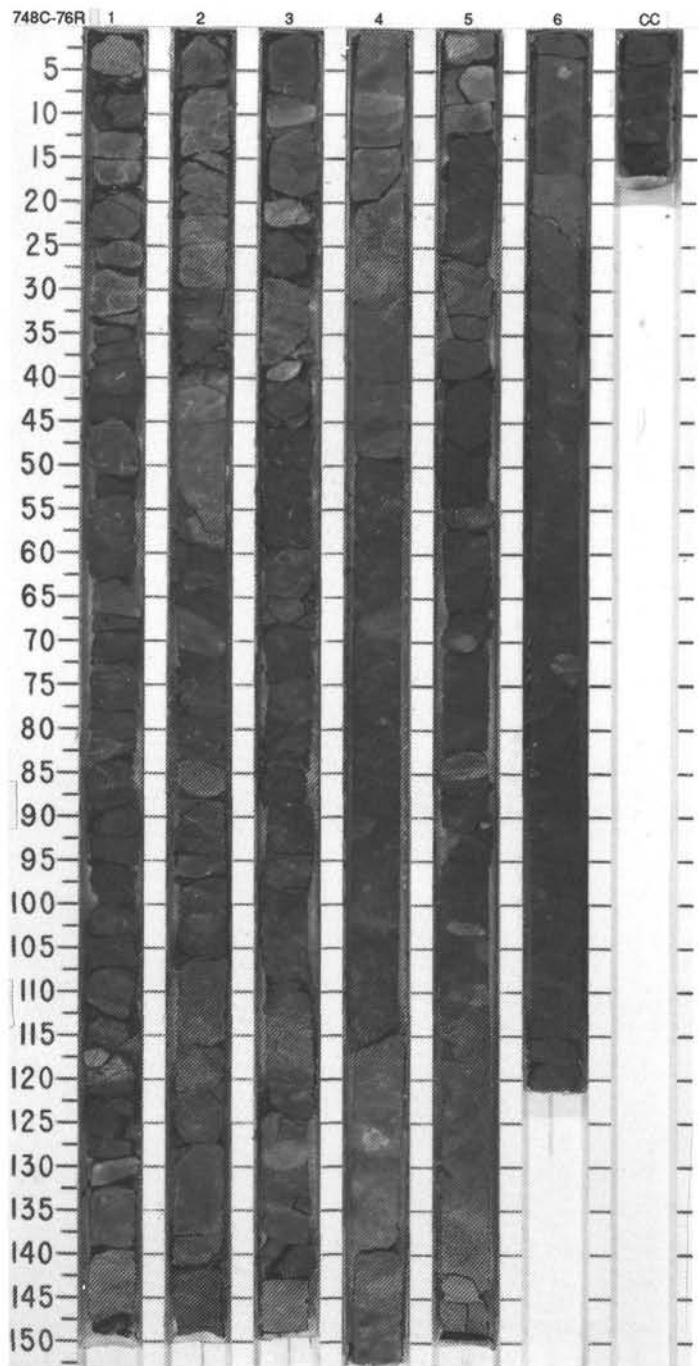
## COMPOSITION:

Calcite	2	—	—
Clay	30	—	30
Feldspar	1	—	2
Glauconite	40	—	45
Opaques	4	2	6
Quartz	4	—	6
Siderite	8	98	8
Zeolite	8	—	1

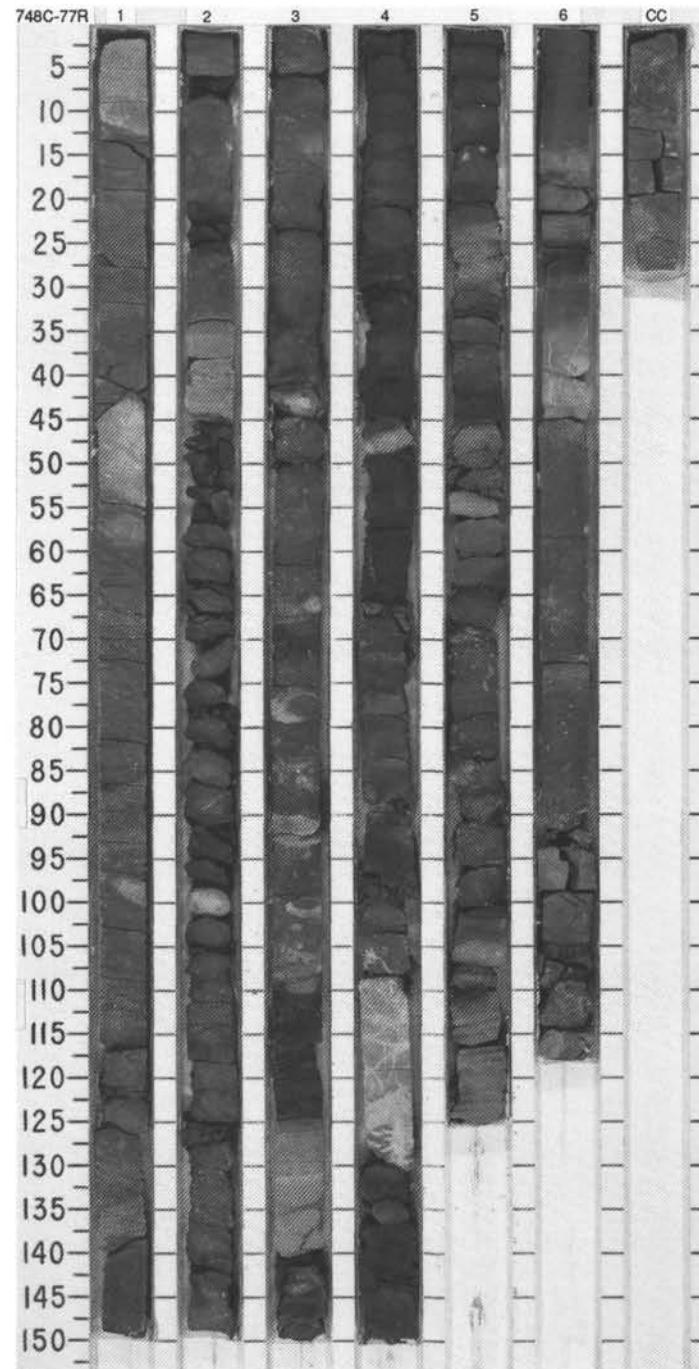


SITE 748 HOLE C CORE 76R CORED INTERVAL 864.0-873.5 mbsf

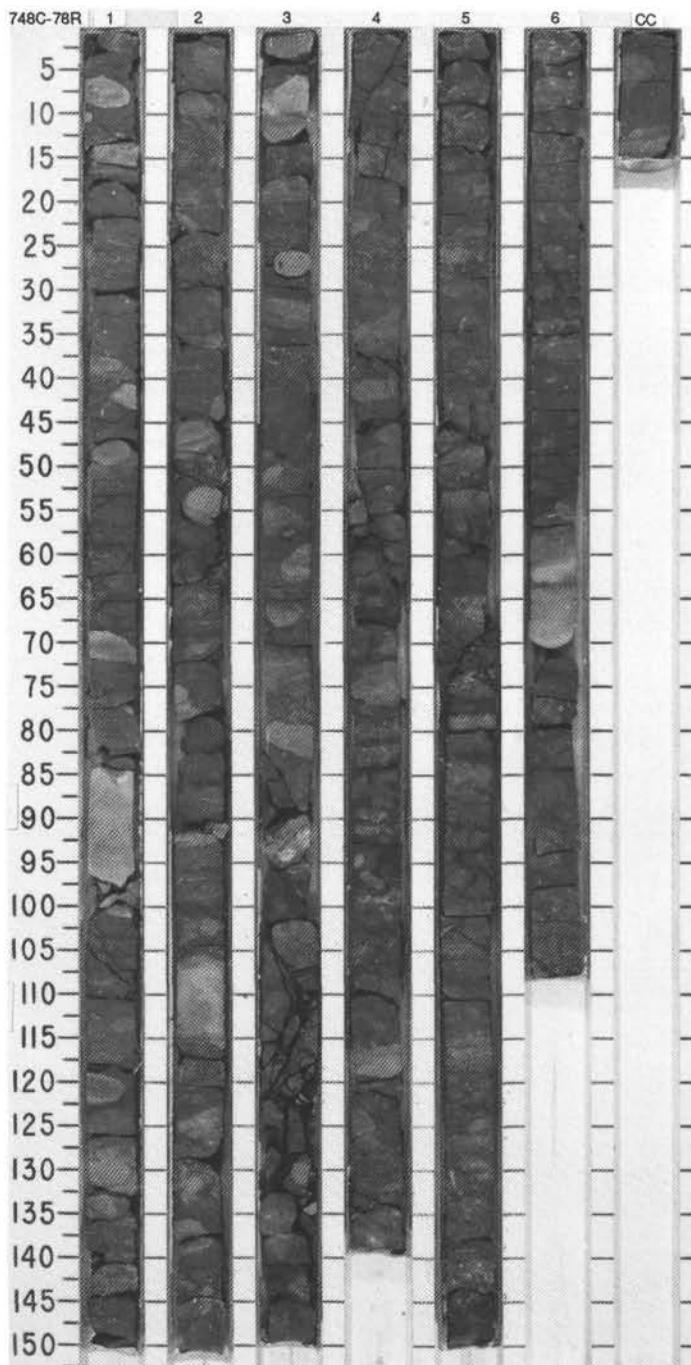
TIME-ROCK UNIT	BIOSTRAT. ZONE/FOSSIL CHARACTER					PALEOMAGNETICS					LITHOLOGIC DESCRIPTION							
	FORAMINIFERS	NANOFOSILS	RADIOLARIANS	DIACTIONS		PHYS. - PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES					
Barren						• 46.94 • 2.23			0.5				*	GLAUCONITIC SILTSTONE				
Barren						• 49.75 • 2.20			1					Major lithology: GLAUCONITIC SILTSTONE, dark greenish gray (SG 4/1), moderate to severe bioturbation throughout. Massive bedding with variable carbonate in matrix; siderite concretions occur.				
Barren						• 44.3% OC=0.52%			1.0					Drilling disturbance: Severe drilling fractures from top of core through Section 5, 80 cm, and moderate to slight fracturing below.				
Barren									2					SMEAR SLIDE SUMMARY (%):				
														1, 28 D	2, 44 D	3, 38 M	5, 41 D	
														TEXTURE:				
														Sand	20	15	4	20
														Silt	60	60	91	55
														Clay	20	25	5	25
														COMPOSITION:				
														Calcite	—	30	—	10
														Clay	30	15	2	25
														Feldspar	1	1	—	Tr
														Glaucophane	35	35	2	40
														Opaques	5	—	—	—
														Phosphate	—	—	—	Tr
														Pyrite	—	2	2	3
														Quartz	15	5	—	12
														Siderite	9	12	94	5
														Zeolite	5	—	—	5
														CC				



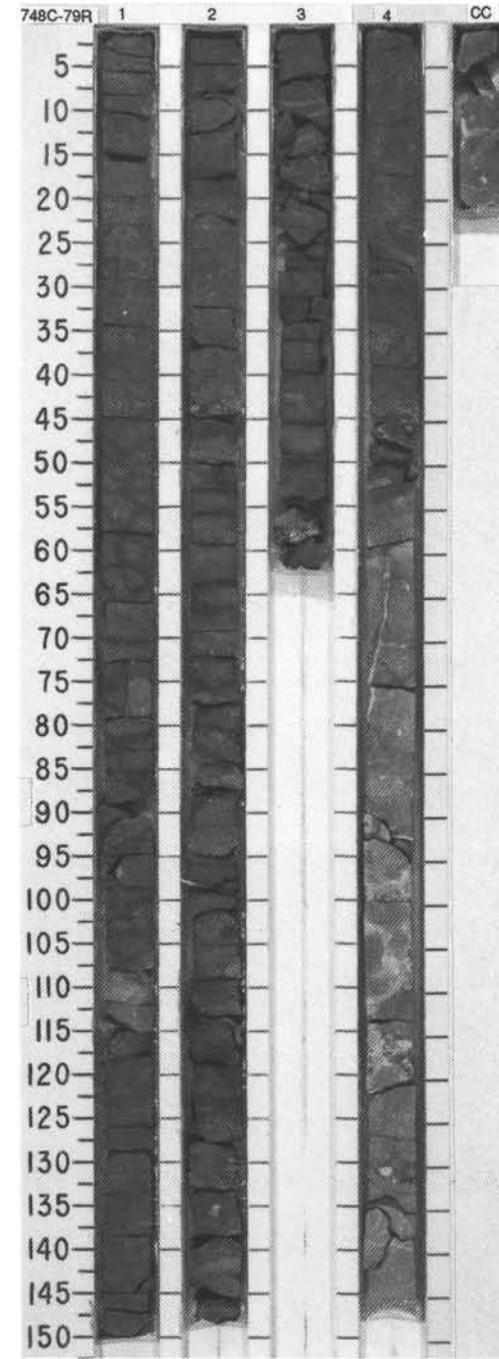
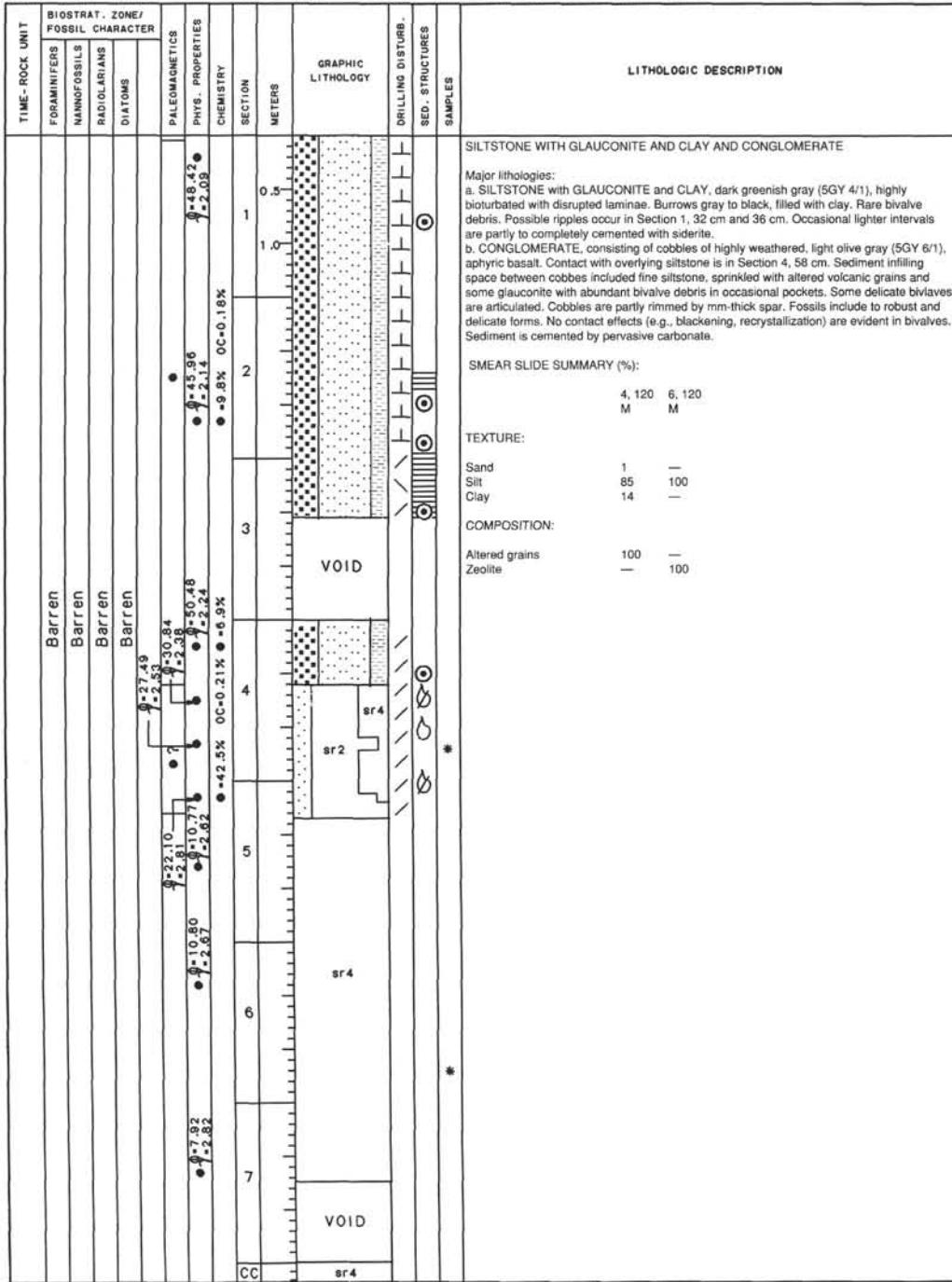
SITE 748 HOLE C CORE 77R CORED INTERVAL 873.5-883.0 mbsf



SITE 748 HOLE C CORE 78R CORED INTERVAL 883.0-892.0 mbsf



## SITE 748 HOLE C CORED INTERVAL 892.5-902.0 mbsf



SITE 748 HOLE C CORE 87R CORED INTERVAL 934.0-935.0 mbsf

TIME-ROCK UNIT	BIOSTRAT., ZONE/FOSSIL CHARACTER				GRAPHIC LITHOLOGY	LITHOLOGIC DESCRIPTION					
	FORAMINIFERS	MAMMOFOSSILS	RADIOLARIANS	DIATOMS		PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
					CC		*		X		*

CLAYSTONE (ALTERED BASALT) and ALTERED BASALT CHIPS

Major lithology: CLAYSTONE and ALTERED BASALT CHIPS, grayish green (SG 4/2); soapy texture, very small scale (0.5 mm) lenticular bedding of creamy white claystone (5Y 8/2). A 3-cm claystone piece (altered basalt) occurs; also a piece of olive gray (5Y 4/2) claystone, homogeneous in smear slide, contains vertical and horizontal seams with siderite and calcite.

Drilling disturbance: Highly brecciated.

SMEAR SLIDE SUMMARY (%):

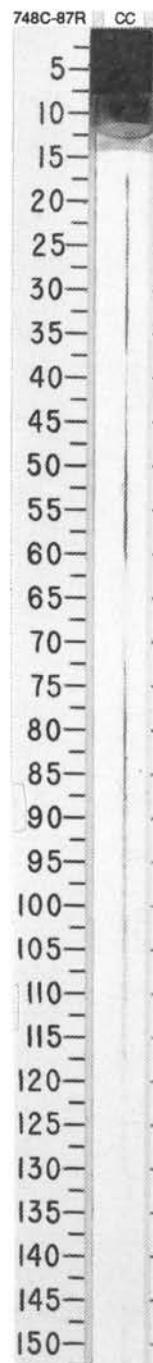
CC, 10	D
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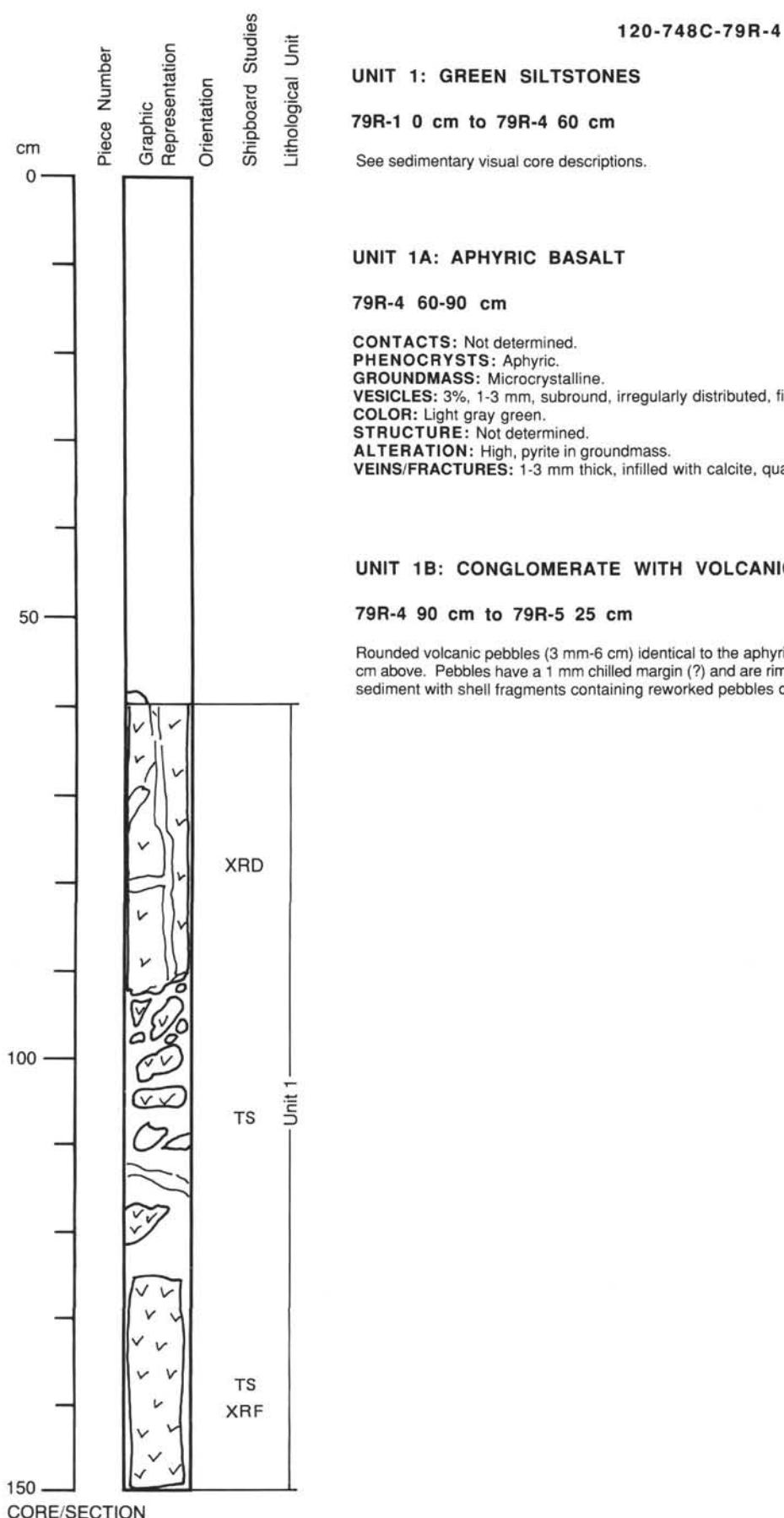
TEXTURE:

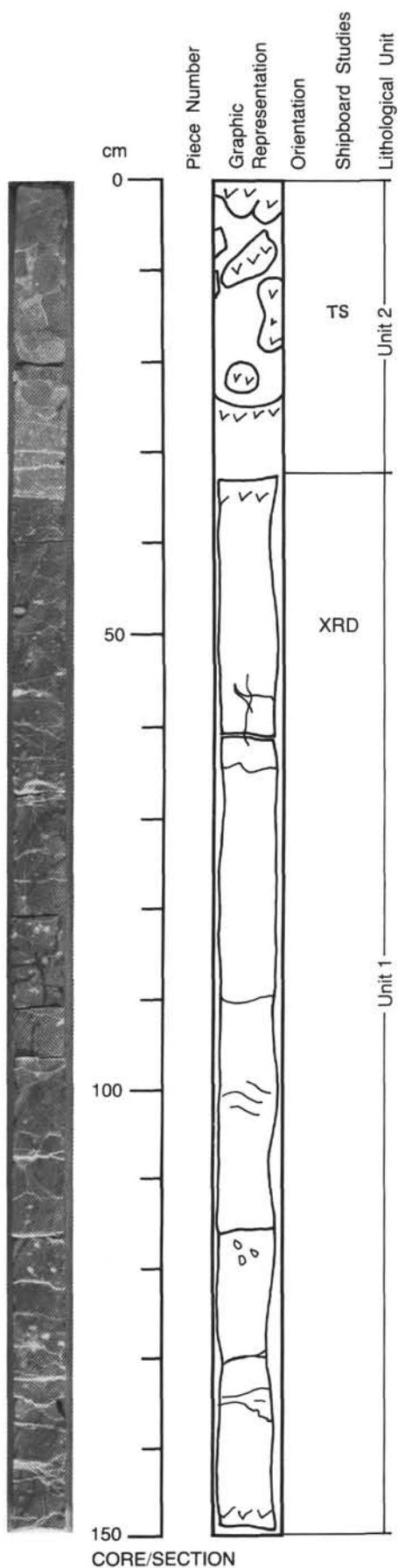
Silt	5
Clay	95

COMPOSITION:

Clay	100
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120-748C-79R-5

**UNIT 1B: CONTINUED****79R-5 0-25 cm**

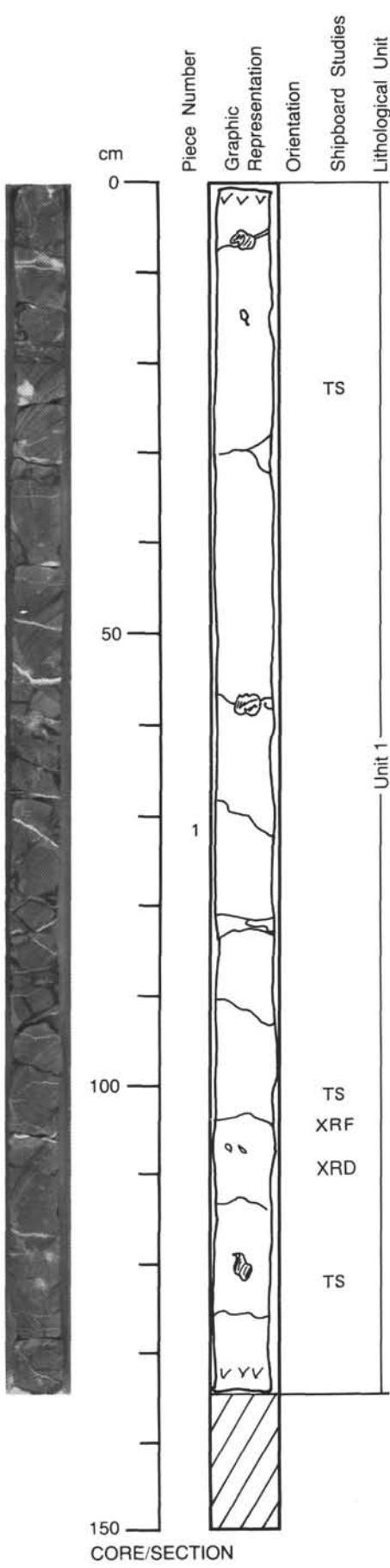
See Section 120-748C-79R-4

**UNIT 1C: SPARSELY PLAGIOCLASE PHYRIC BASALT****79R-5 25-33 cm****CONTACTS:** Not determined.**PHENOCRYSTS:** Plagioclase - 1%, 3 mm, lath-shaped.**GROUNDMASS:** Microcrystalline.**VESICLES:** 2%, 1-8 mm, filled with calcite.**COLOR:** Light green gray.**STRUCTURE:** Not determined.**ALTERATION:** High.**VEINS/FRACTURES:** (?)%, 0.5-3 mm, horizontal, filled with calcite.**UNIT 1D: APHYRIC BASALT****79R-5 33 cm - 79R-7 72 cm****CONTACTS:** Not determined.**PHENOCRYSTS:** Aphyric.**GROUNDMASS:** Microcrystalline.**VESICLES:** (?)%, 0.5-5 mm, filled with calcite, zeolites, quartz, and green clays.**COLOR:** Medium to dark gray.**STRUCTURE:** Not determined.**ALTERATION:** Moderate to high.**VEINS/FRACTURES:** (?)%, 0.5-5 mm, mostly horizontal filled with calcite. Veins crosscut the vesicles.

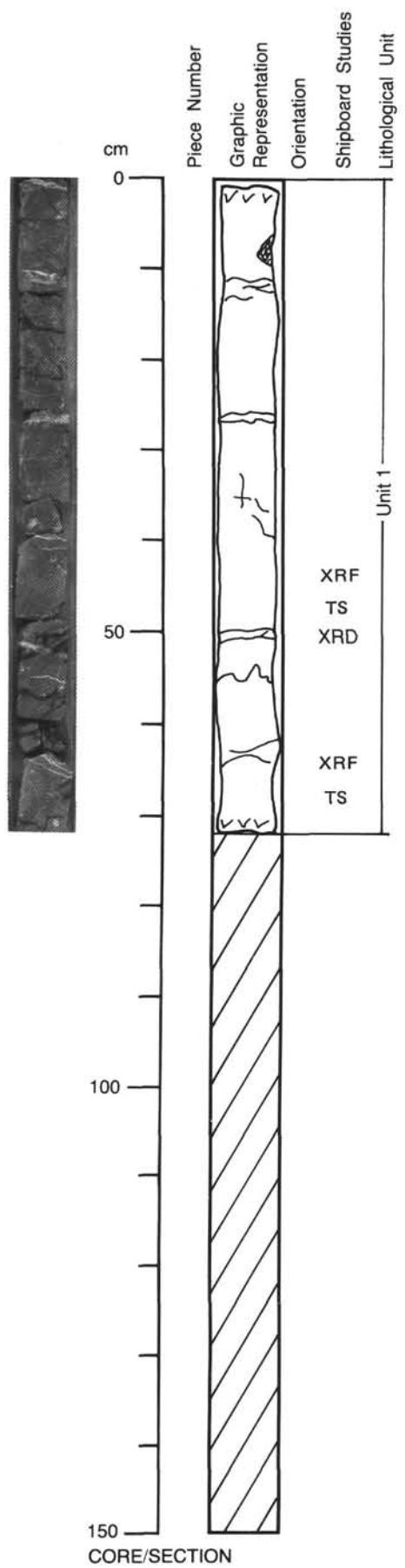
120-748C-79R-6

## UNIT 1D: CONTINUED

See Section 120-748C-79R-5



120-748C-79R-7



## UNIT 1D: CONTINUED

See Section 120-748C-79R-5

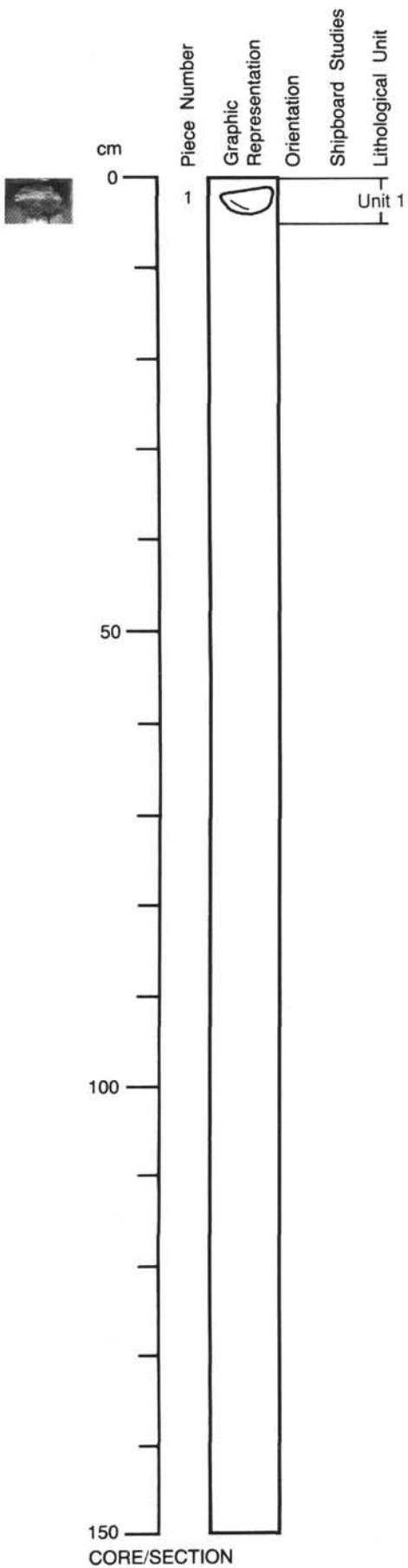
120-748C-80R-CC

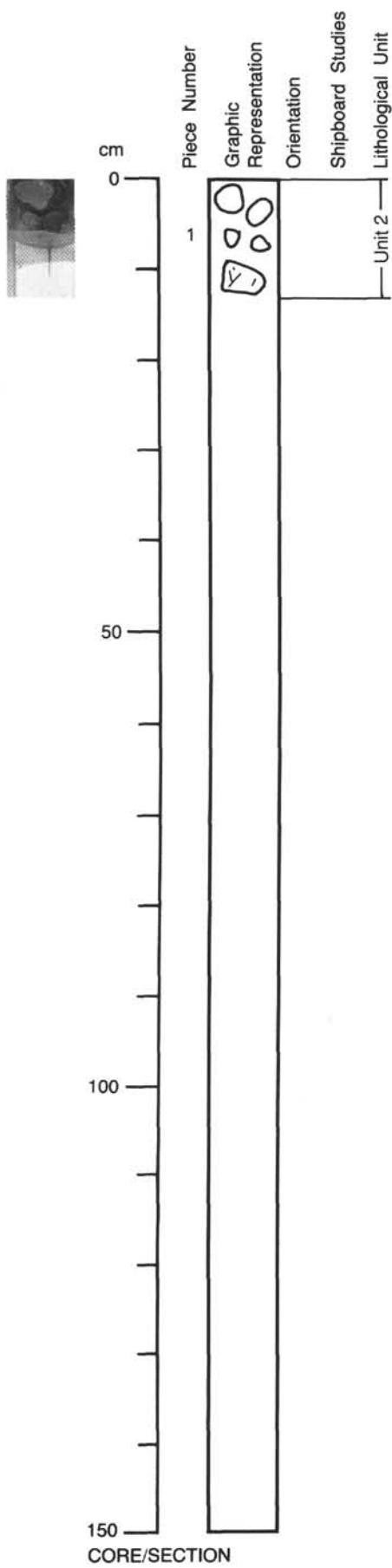
## UNIT 1D: CONTINUED

## Piece 1

**CONTACTS:** Not determined.  
**PHENOCRYSTS:** Aphyric  
**GROUNDMASS:** Fine-grained.  
**VESICLES:** 2%, 1-10 mm, infilled with calcite.  
**COLOR:** Gray.  
**STRUCTURE:** Not determined.  
**ALTERATION:** High.  
**VEINS/FRACTURES:** (?), 1-5 mm, strongly calcite veined.

CORE 120-748C-81R NO RECOVERY





120-748C-82R-CC

## UNIT 2: SPARSELY PLAGIOCLASE PHYRIC BASALT

## Piece 1

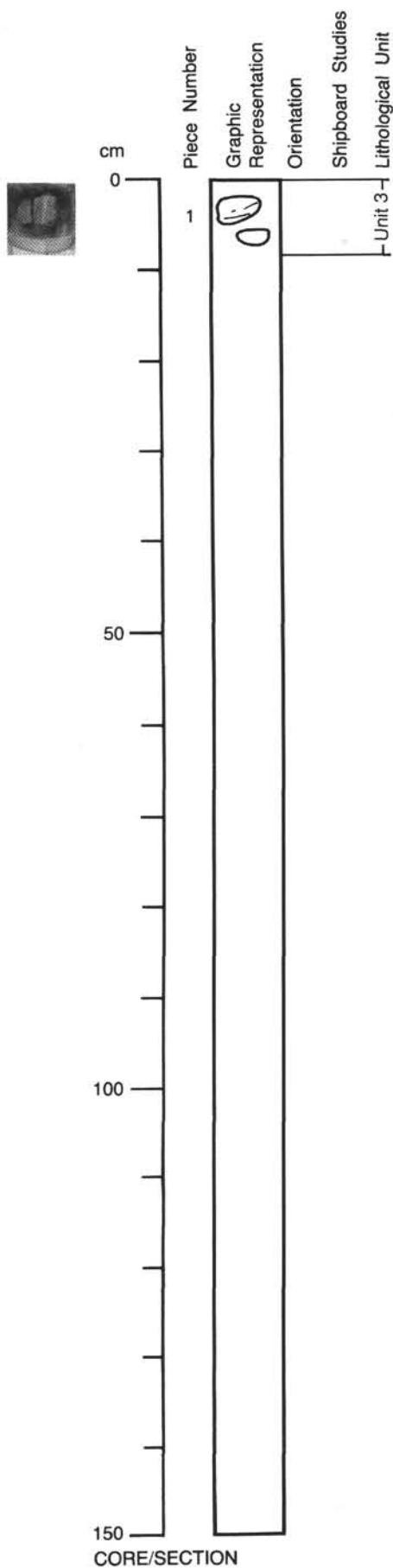
**CONTACTS:** Not determined.**PHENOCRYSTS:** Plagioclase - 1-2%, 1 mm, euhedral laths.**GROUNDMASS:** Fine-grained.**VESICLES:** 5%, 1-3 mm, infilled with calcite, zeolites and green clay minerals.**COLOR:** Gray.**STRUCTURE:** Not determined.**ALTERATION:** Moderate.**VEINS/FRACTURES:** Few 0.5 mm veins of calcite.

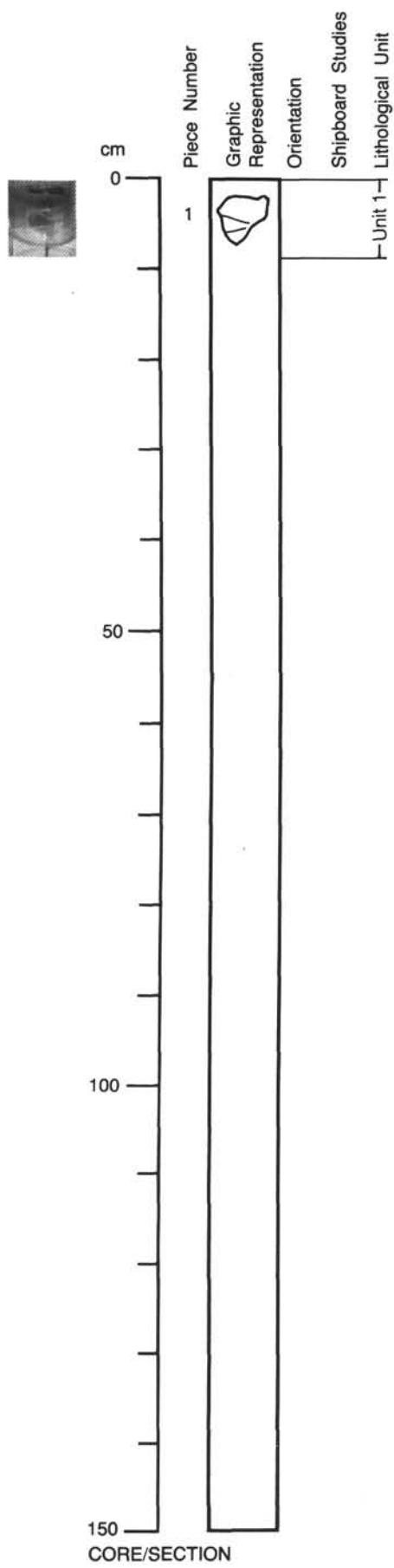
CORE 120-748C-83R NO RECOVERY

120-748C-84R-CC

## UNIT 3: SPARSELY PHYRIC BASALT

## Piece 1

**CONTACTS:** Not determined.**PHENOCRYSTS:** Clinopyroxene - 2-3%, 0.5-3 mm, subhedral to euhedral crystals, sometimes forming glomerocrysts up to 1 cm.**GROUNDMASS:** Microcrystalline.**VESICLES:** 5%, 1-3 mm, infilled with calcite.**COLOR:** Gray.**STRUCTURE:** Not determined.**ALTERATION:** Moderate.**VEINS/FRACTURES:** (?)%, 0.25-1 mm, infilled with calcite.



120-748C-85R-CC

## UNIT 1D: CONTINUED

## Piece 1

**CONTACTS:** Not determined.  
**PHENOCRYSTS:** Aphyric.  
**GROUNDMASS:** Microcrystalline.  
**VESICLES:** 1%, 1-3 mm, infilled with zeolites and green clay minerals.  
**COLOR:** Gray.  
**STRUCTURE:** Not determined.  
**ALTERATION:** Moderate.  
**VEINS/FRACTURES:** (?), 1 mm, veins of calcite.  
**ADDITIONAL COMMENTS:** Pebble from higher in sequence?

120-748C-86R-CC

## UNIT 3: CONTINUED

## Piece 1

**CONTACTS:** Not determined.**PHENOCRYSTS:** Clinopyroxene - 2-3%, 0.5-3 mm, subhedral to euhedral crystals, sometimes forming glomerocrysts up to 1 cm.**GROUNDMASS:** Microcrystalline.**VESICLES:** < 5%, 1-3 mm, infilled with calcite.**COLOR:** Gray.**STRUCTURE:** Not determined.**ALTERATION:** Moderate.**VEINS/FRACTURES:** (?), 0.25-1 mm, infilled with calcite.