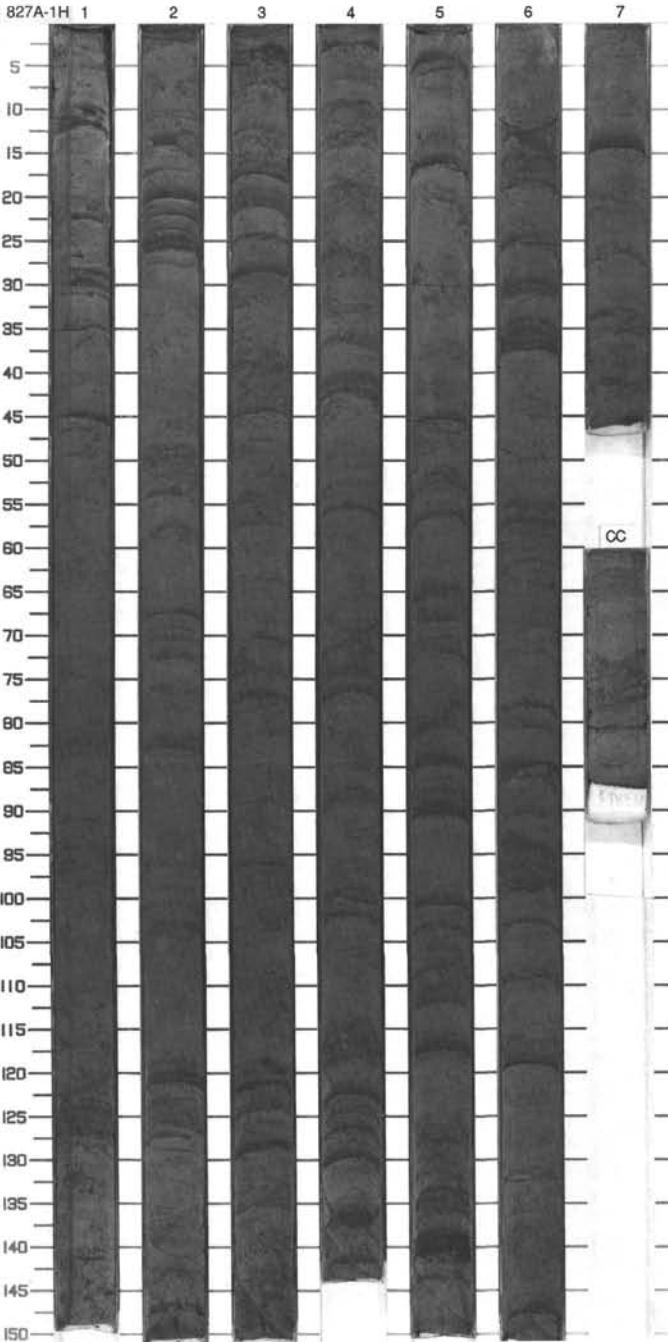
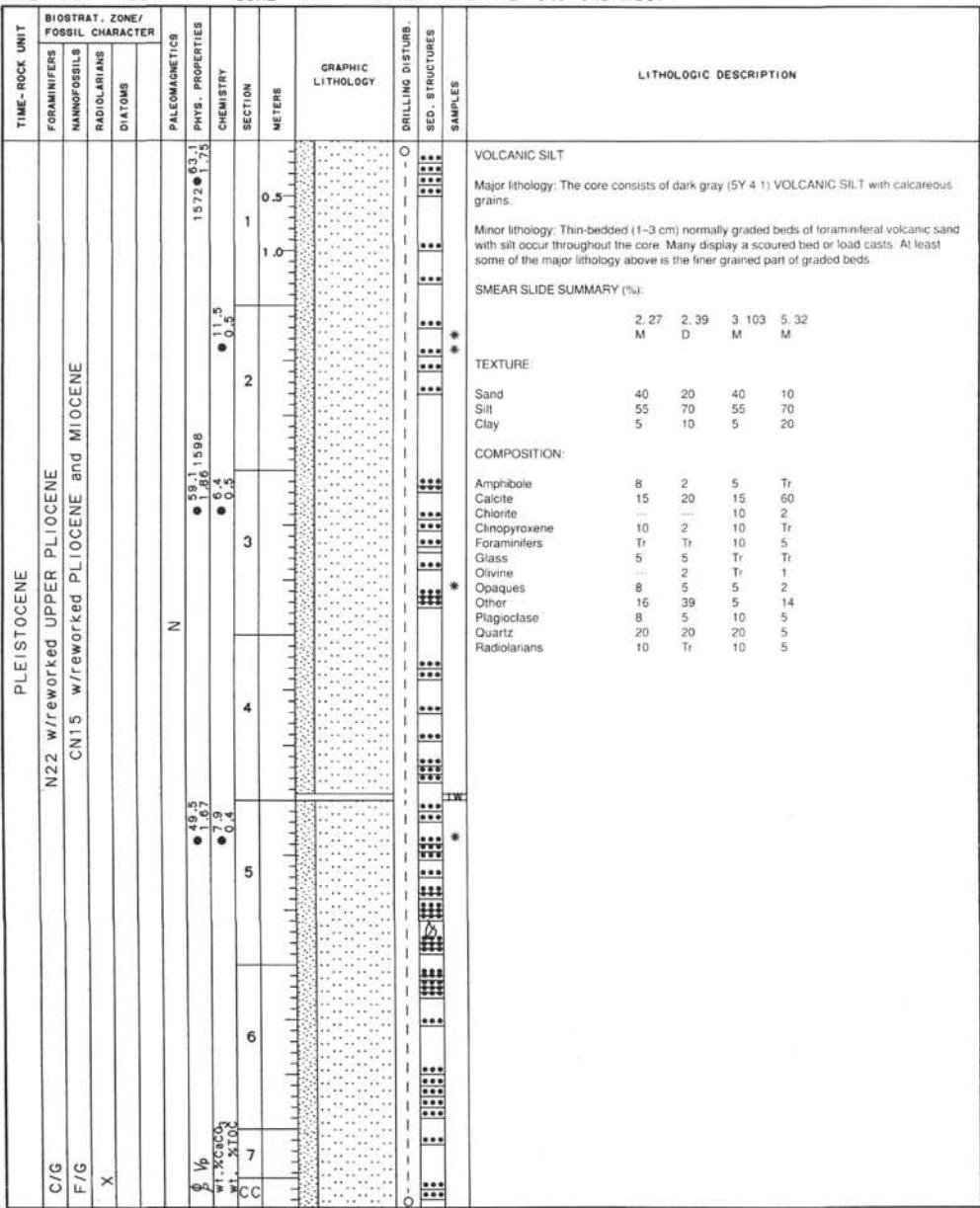
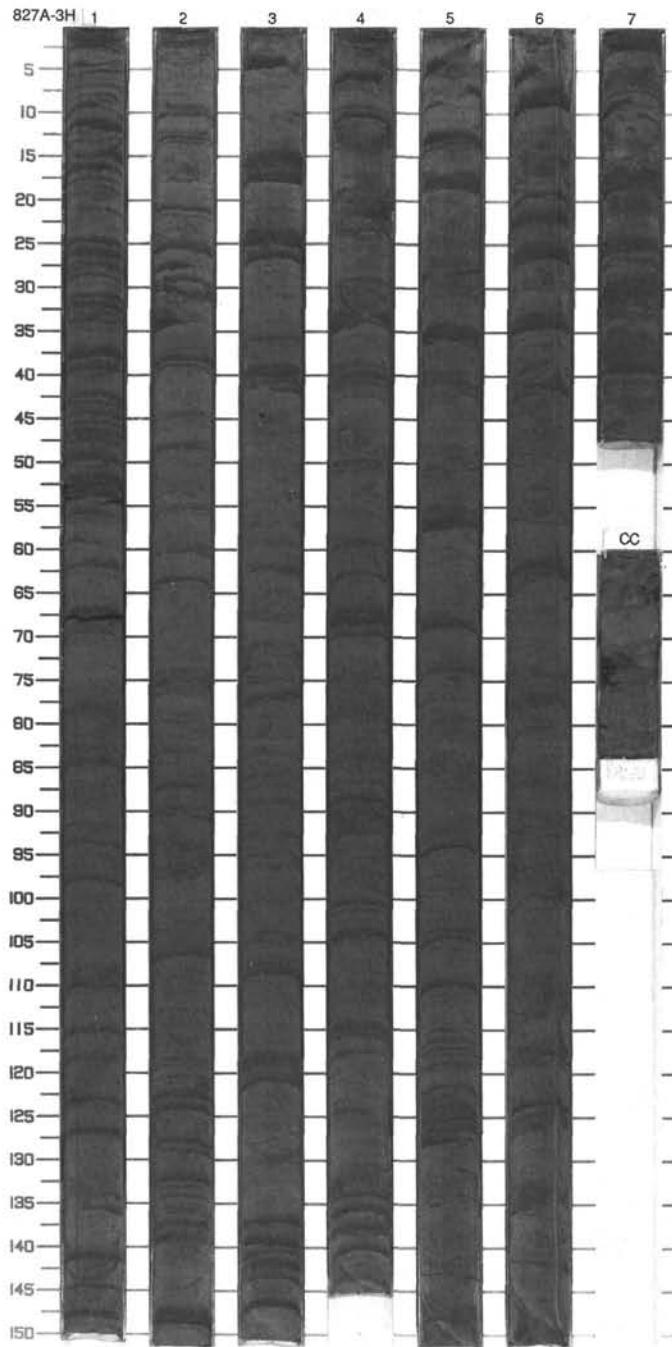
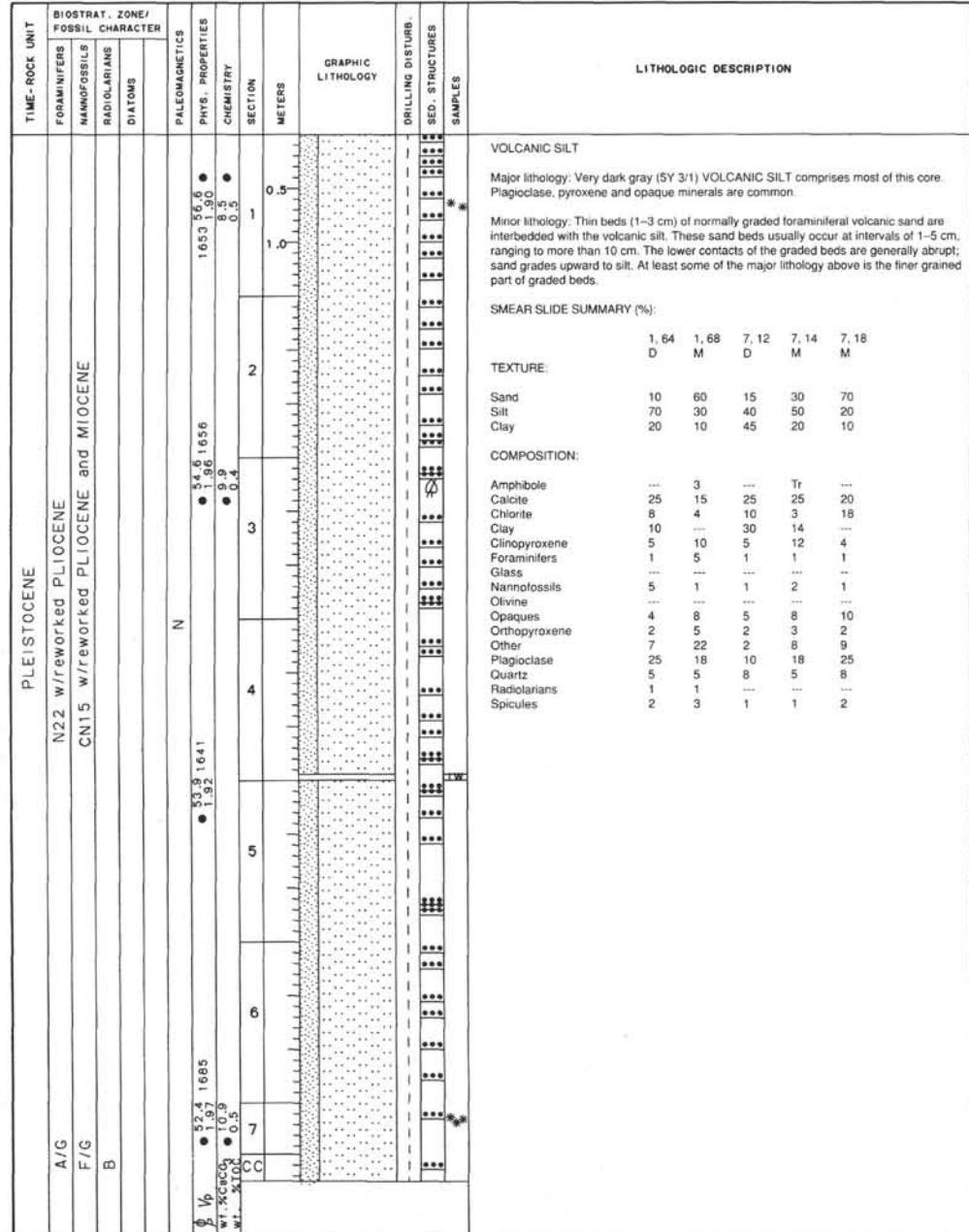


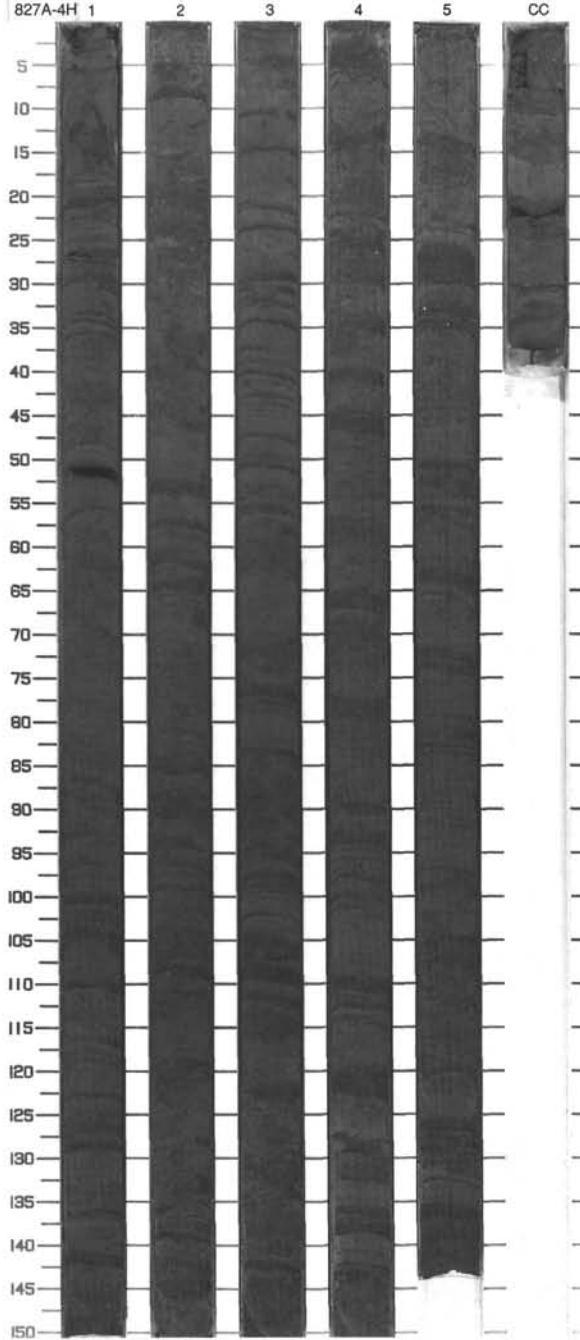
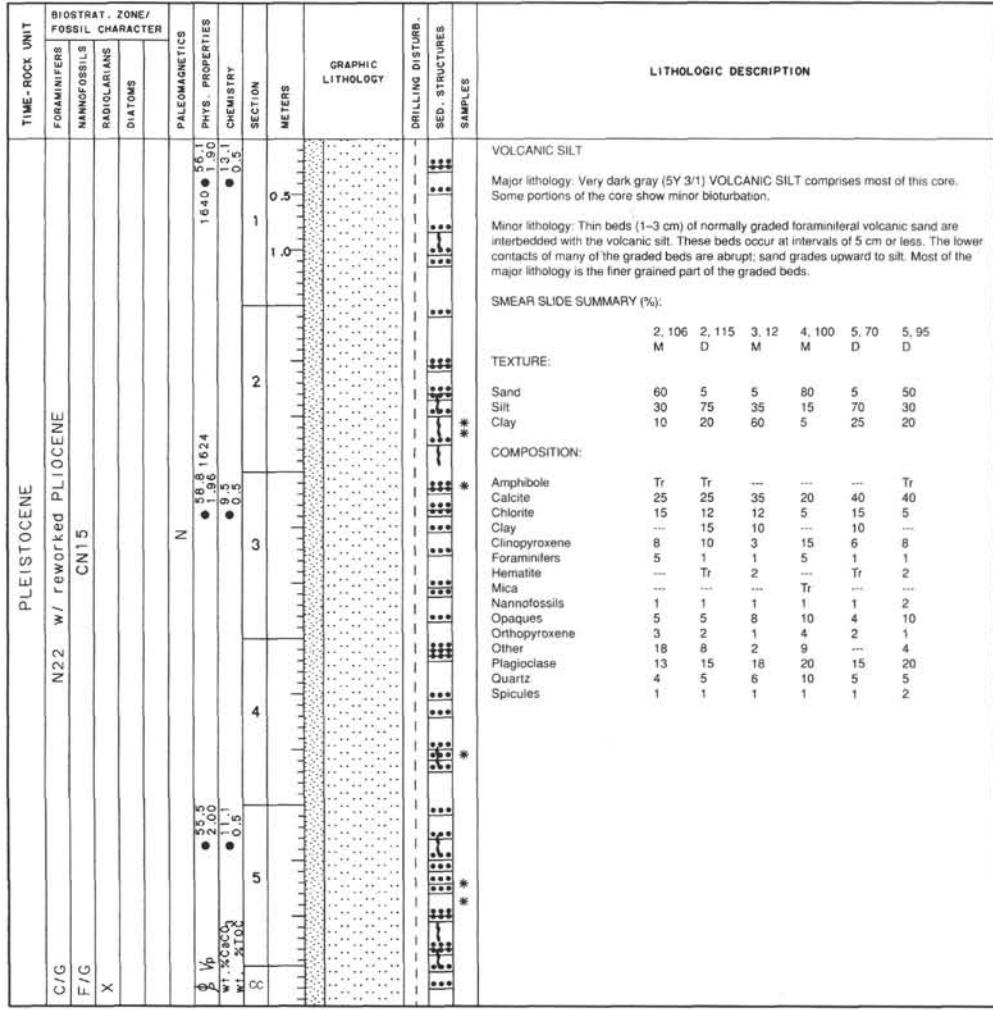
SITE 827 HOLE A CORE 1H CORED INTERVAL 0.0-9.8 mbsf



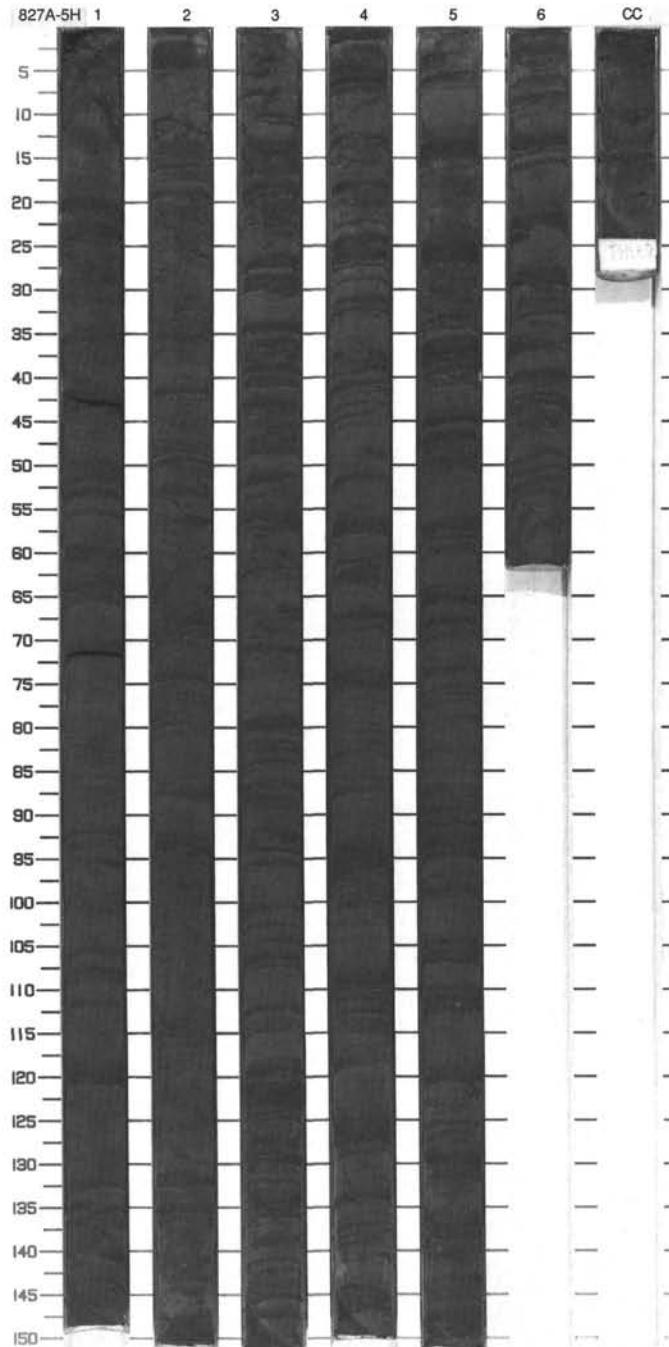
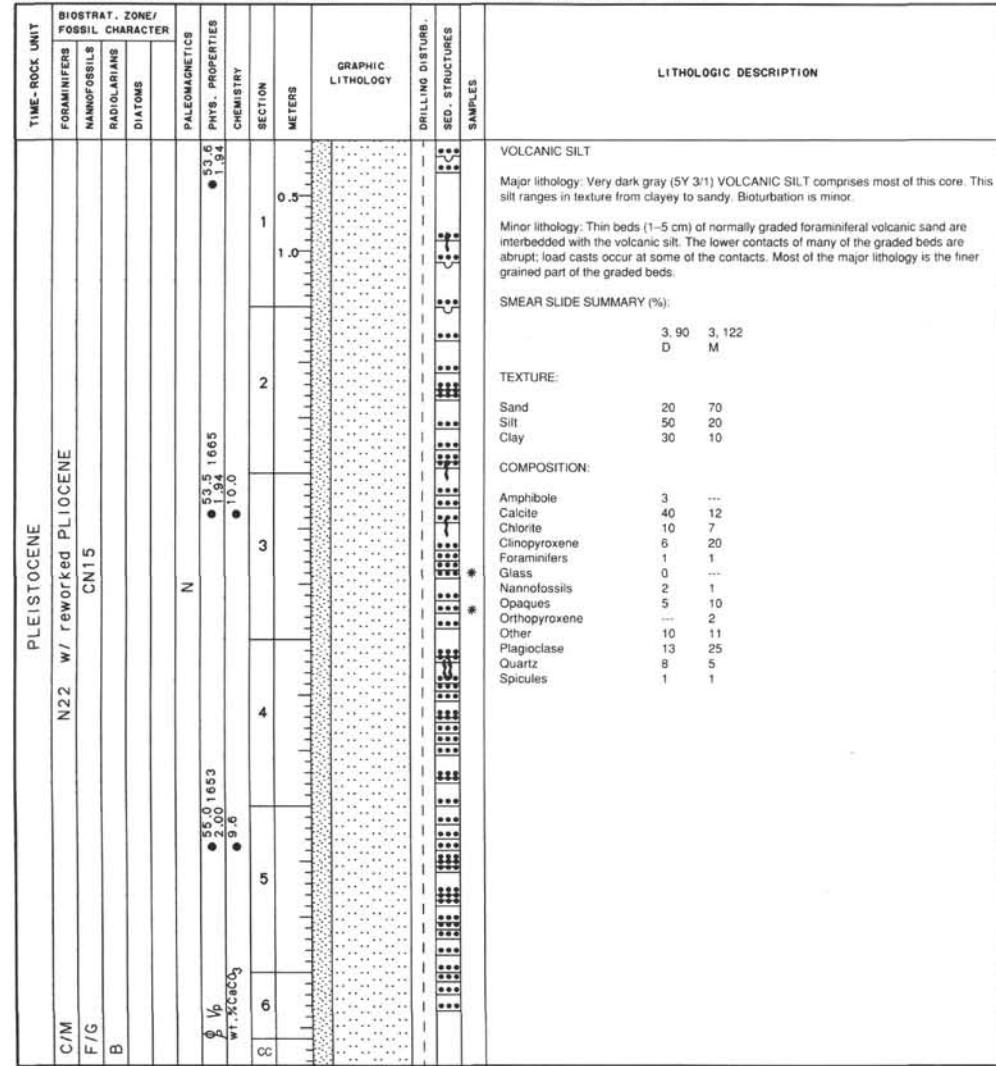
SITE 827 HOLE A CORE 3H CORED INTERVAL 19.3-28.8 mbsf



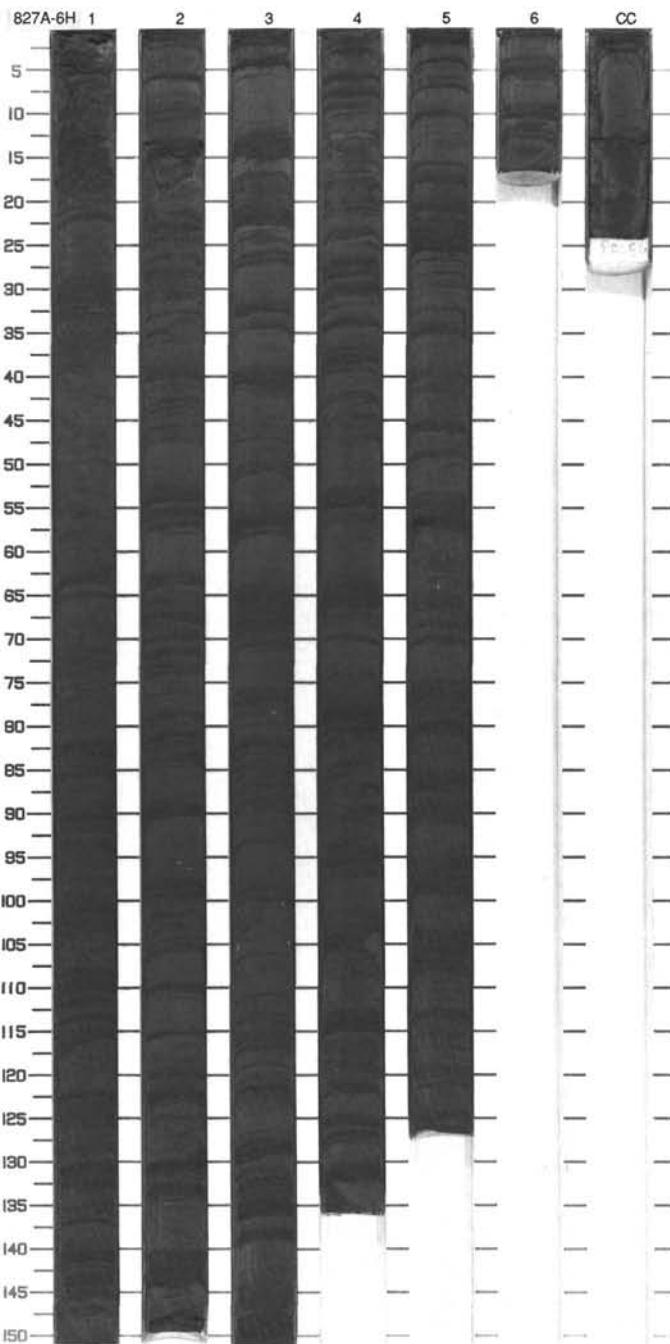
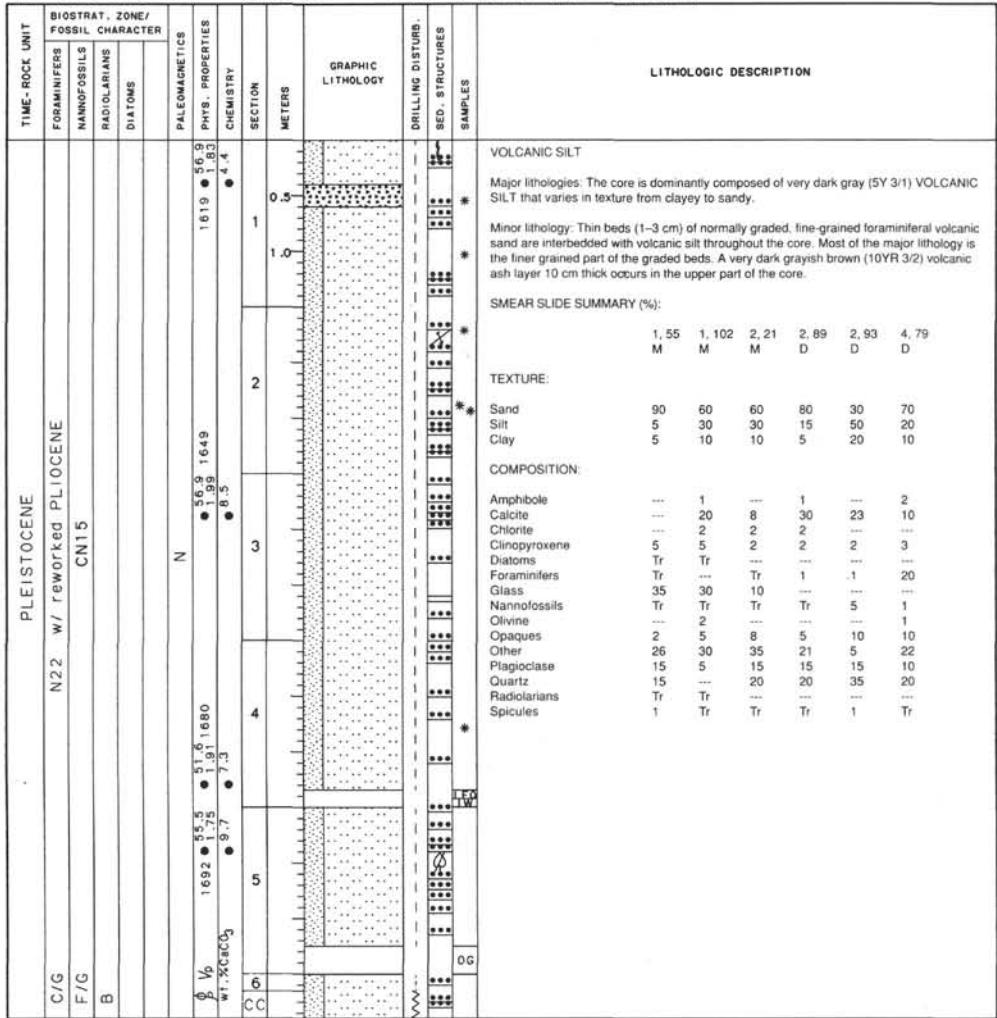
SITE 827 HOLE A CORE 4H CORED INTERVAL 28.8-36.5 mbsf



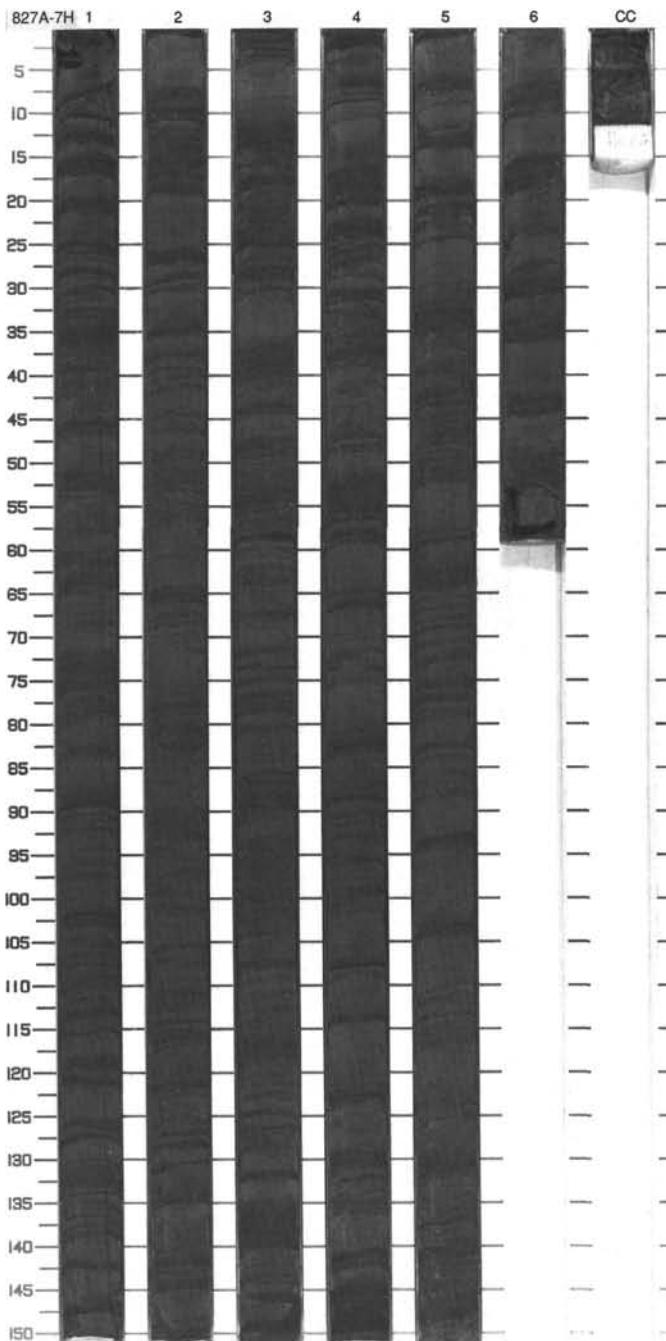
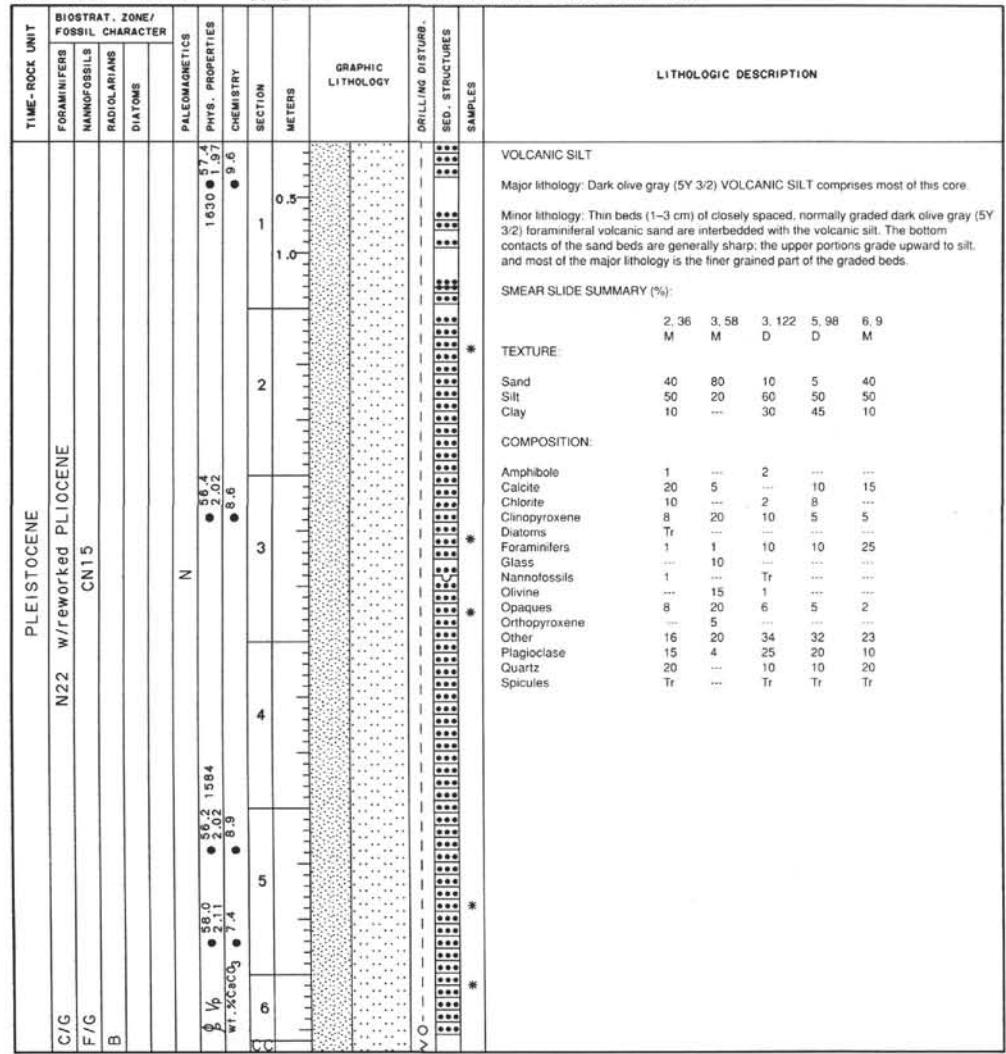
SITE 827 HOLE A CORE 5H CORED INTERVAL 36.5-44.9 mbsf



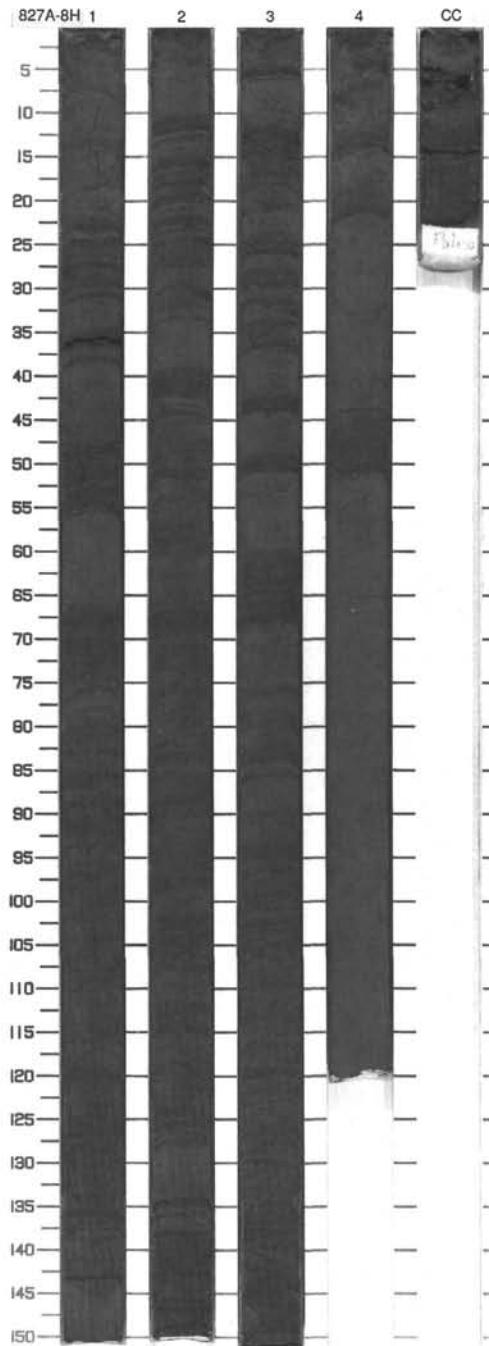
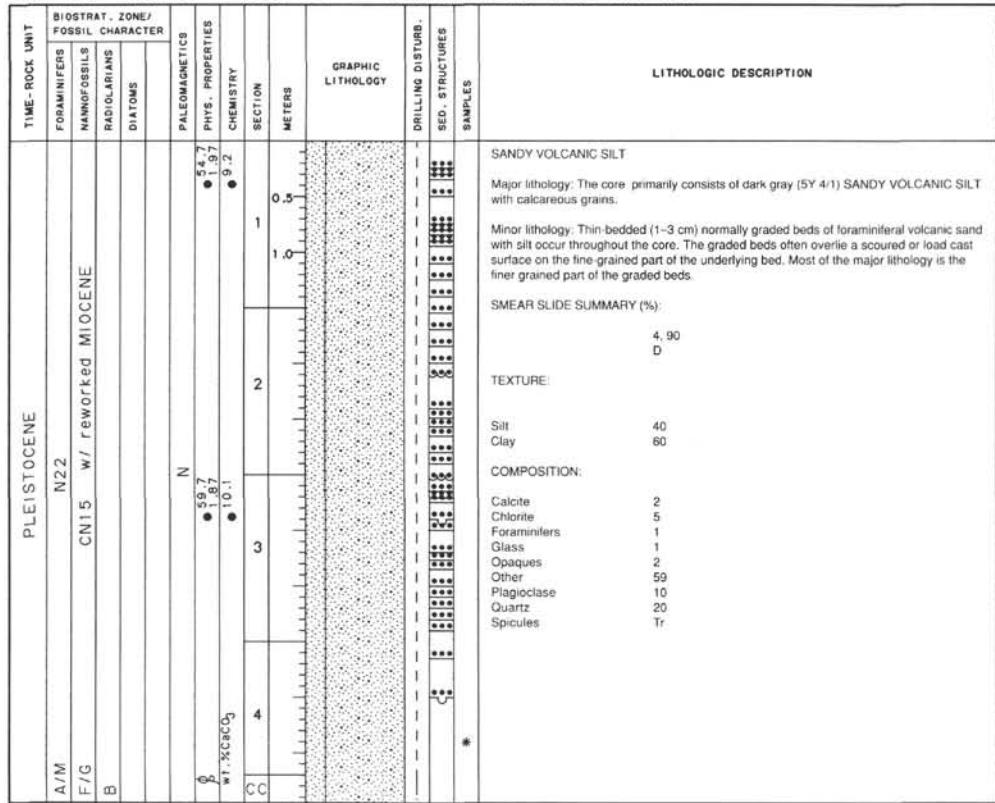
SITE 827 HOLE A CORE 6H CORED INTERVAL 44.9-52.8 mbsf



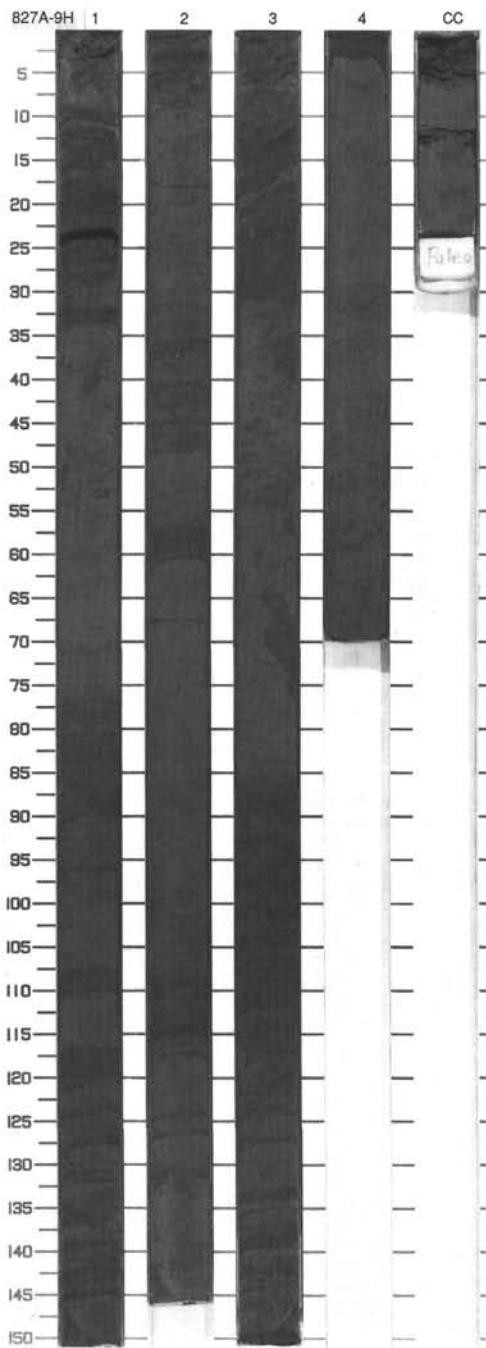
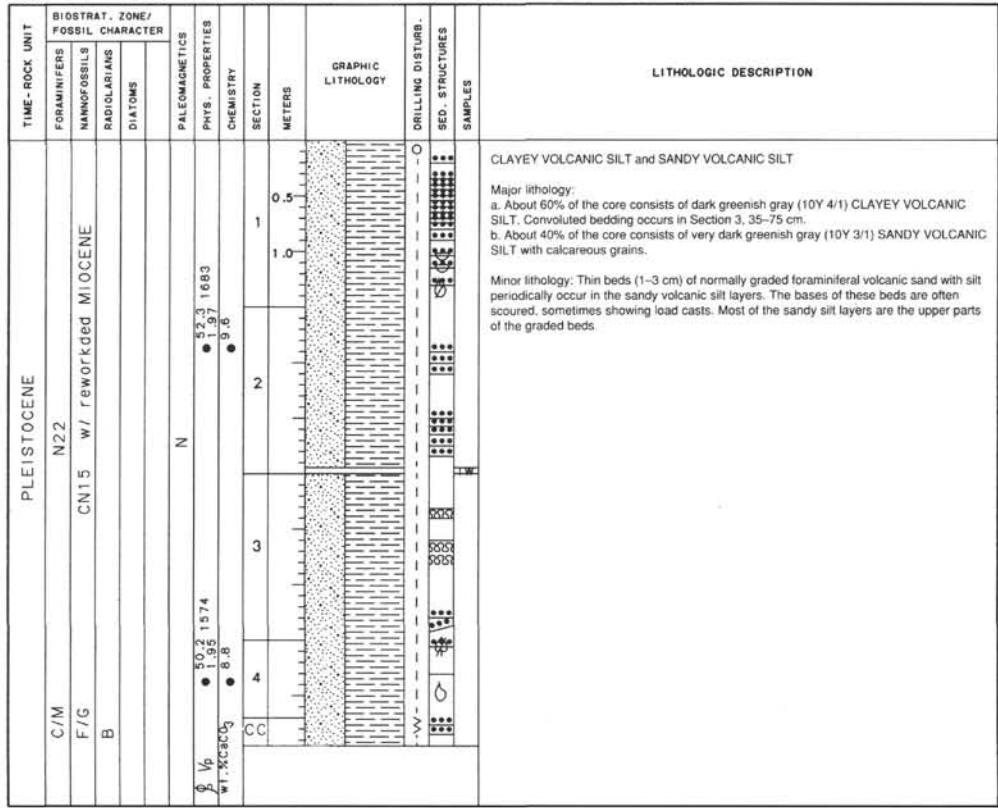
SITE 827 HOLE A CORE 7H CORED INTERVAL 52.8-61.0 mbsf



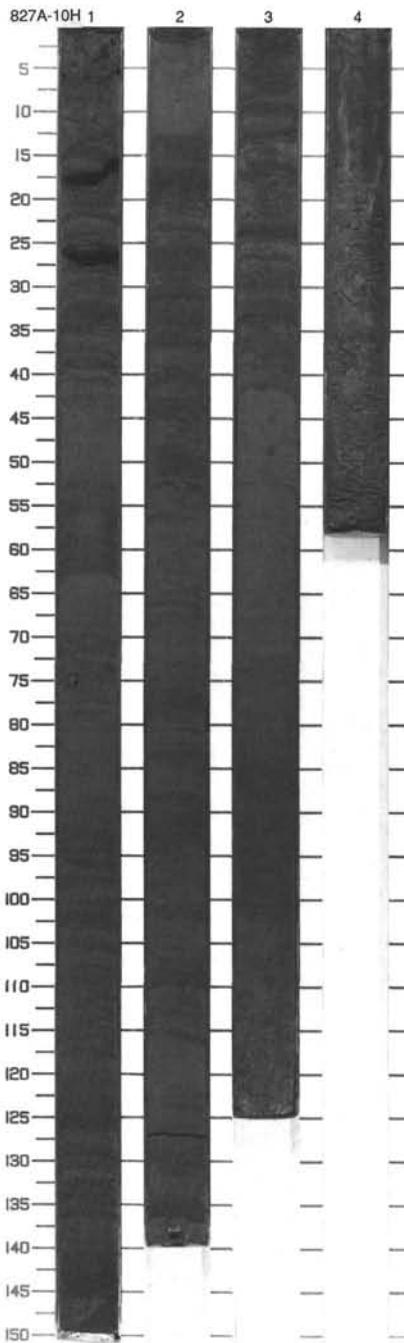
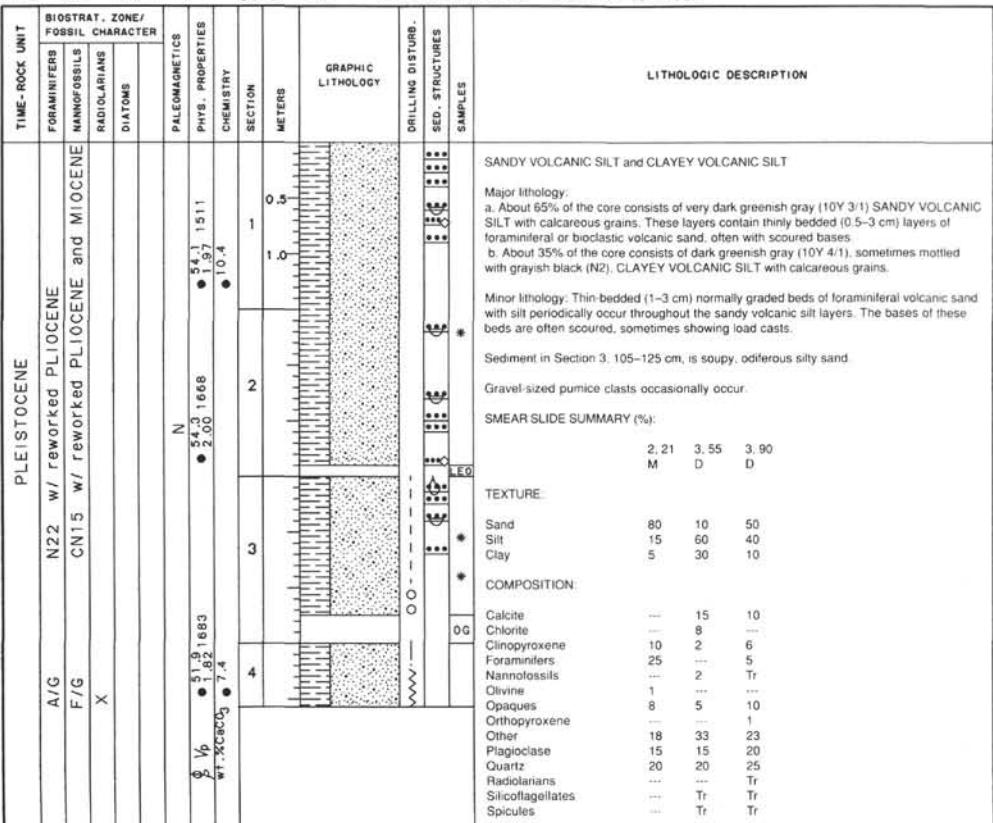
SITE 827 HOLE A CORE 8H CORED INTERVAL 61.0-67.0 mbsf



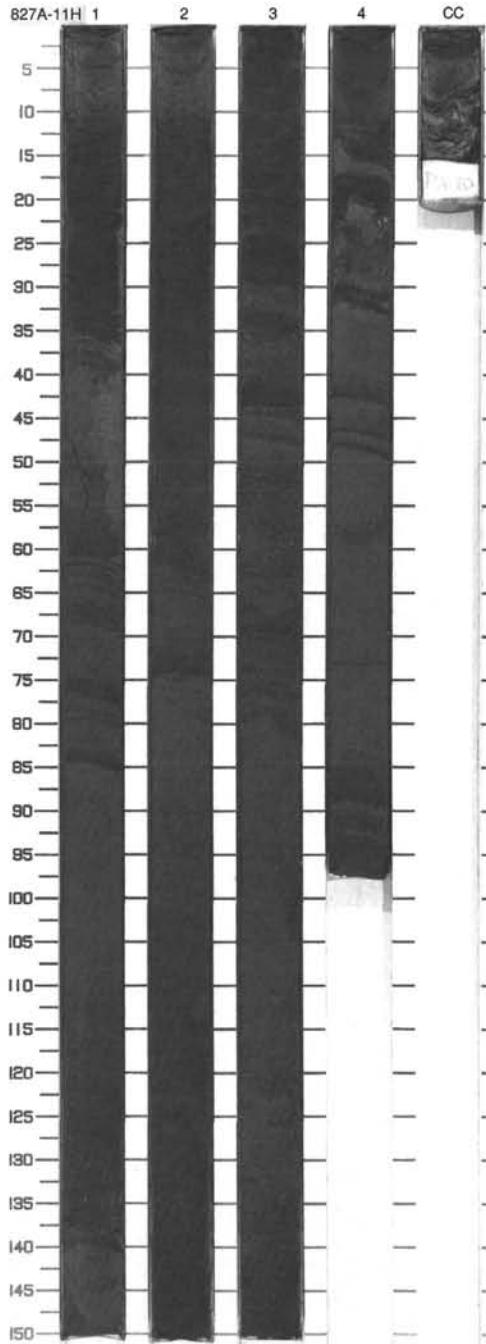
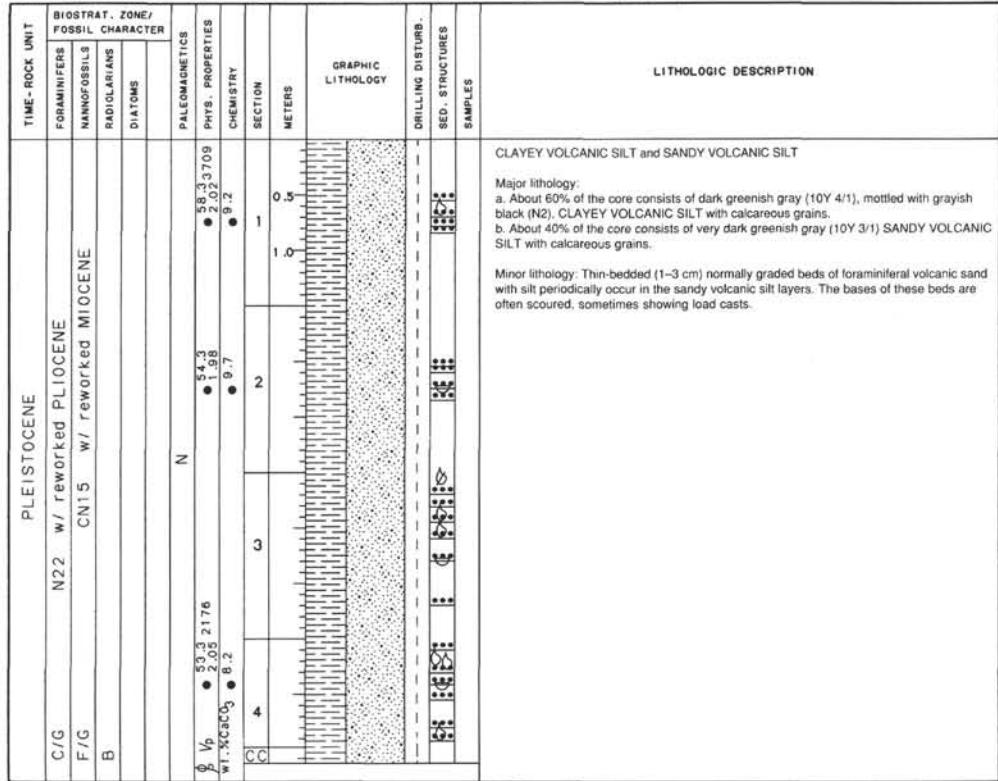
SITE 827 HOLE A CORE 9H CORED INTERVAL 67.0-72.5 mbst



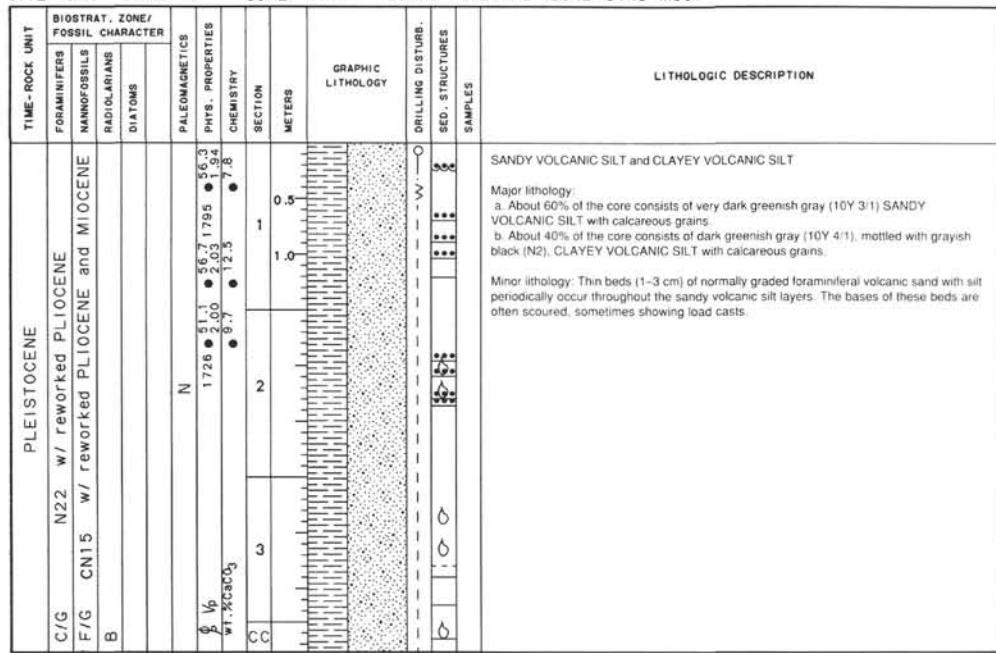
SITE 827 HOLE A CORE 10H CORED INTERVAL 72.5-77.6 mbst



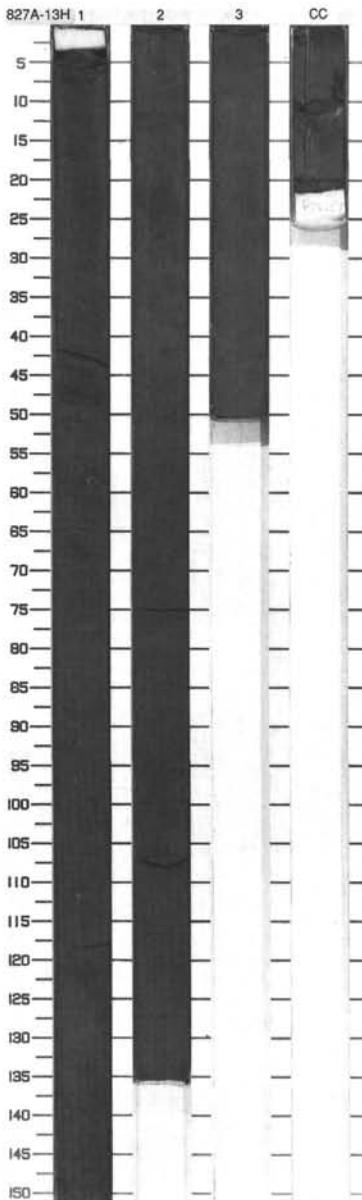
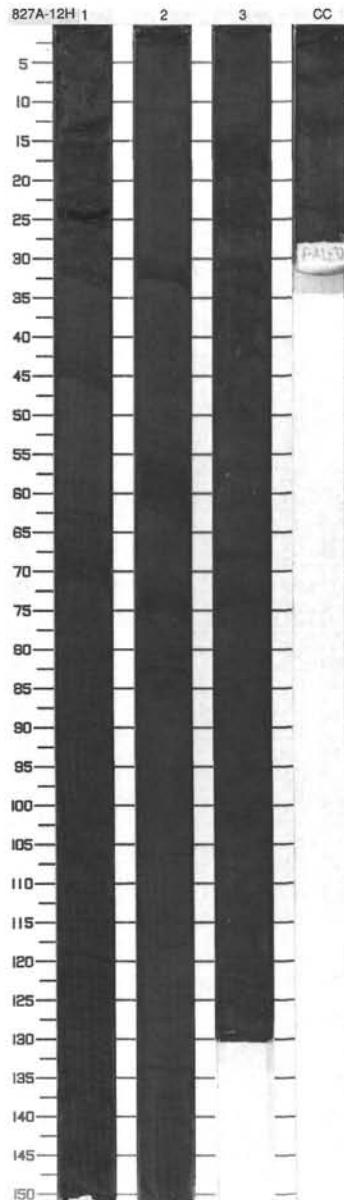
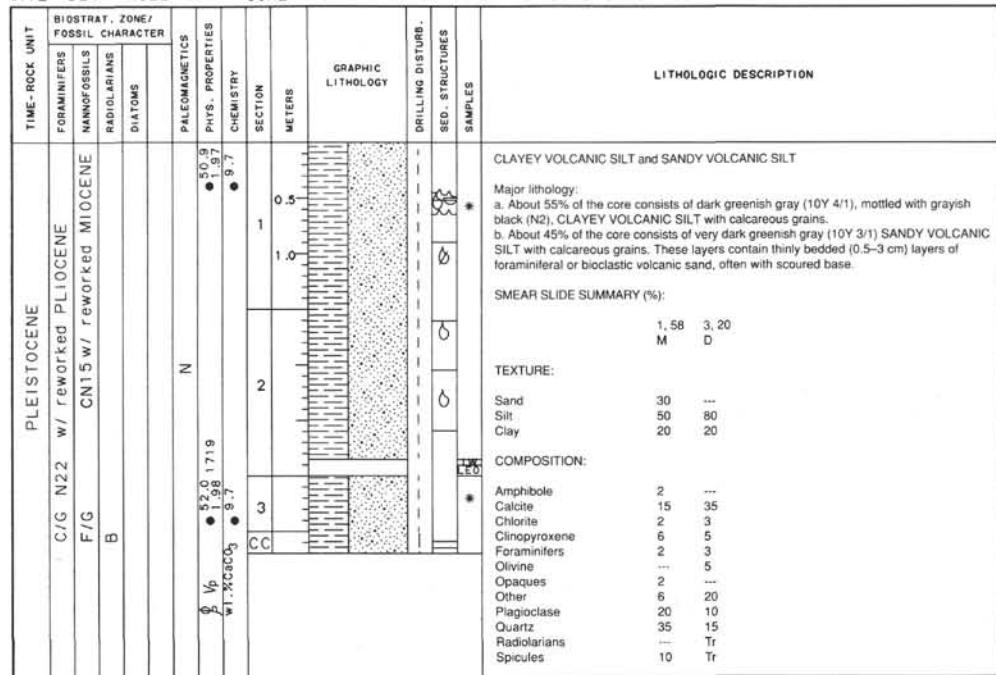
SITE 827 HOLE A CORE 11H CORED INTERVAL 77.6-83.2 mbsf



SITE 827 HOLE A CORE 12H CORED INTERVAL 83.2-87.8 mbsf



SITE 827 HOLE A CORE 13H CORED INTERVAL 87.8-91.5 mbsf



SITE 827 HOLE A CORE 14X CORED INTERVAL 91.5-101.0 mbsf

TIME-ROCK UNIT	BIOSTRAT., ZONE/ FOSSIL CHARACTER					
	FORAMINIFERS	NANOFOSILS	RADIODIARIANS	DIATOMS		
N22 w/ reworked PLIOCENE and MIocene C/G						
CN14 w/ reworked PLIOCENE and MIocene F/G						
	• 53.5 1724 ● 11.2					
B						
N						
Vp						
wt %CaCO ₃						

LITHOLOGIC DESCRIPTION

CLAYEY VOLCANIC SILT

Major lithology: The entire core consists of very dark greenish gray (10Y 3/1) CLAYEY VOLCANIC SILT with foraminifers.

SMEAR SLIDE SUMMARY (%):

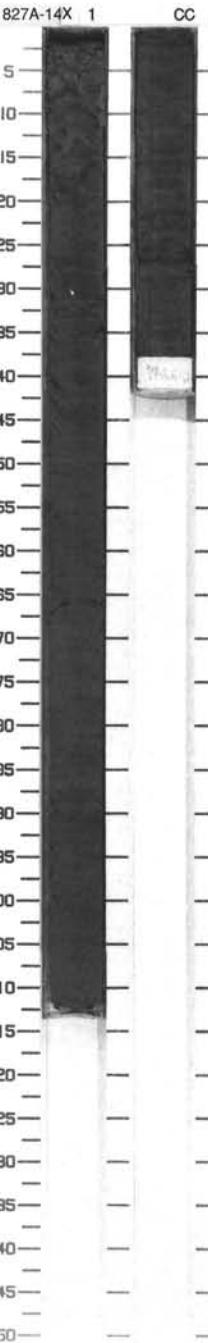
1.58
D

TEXTURE:

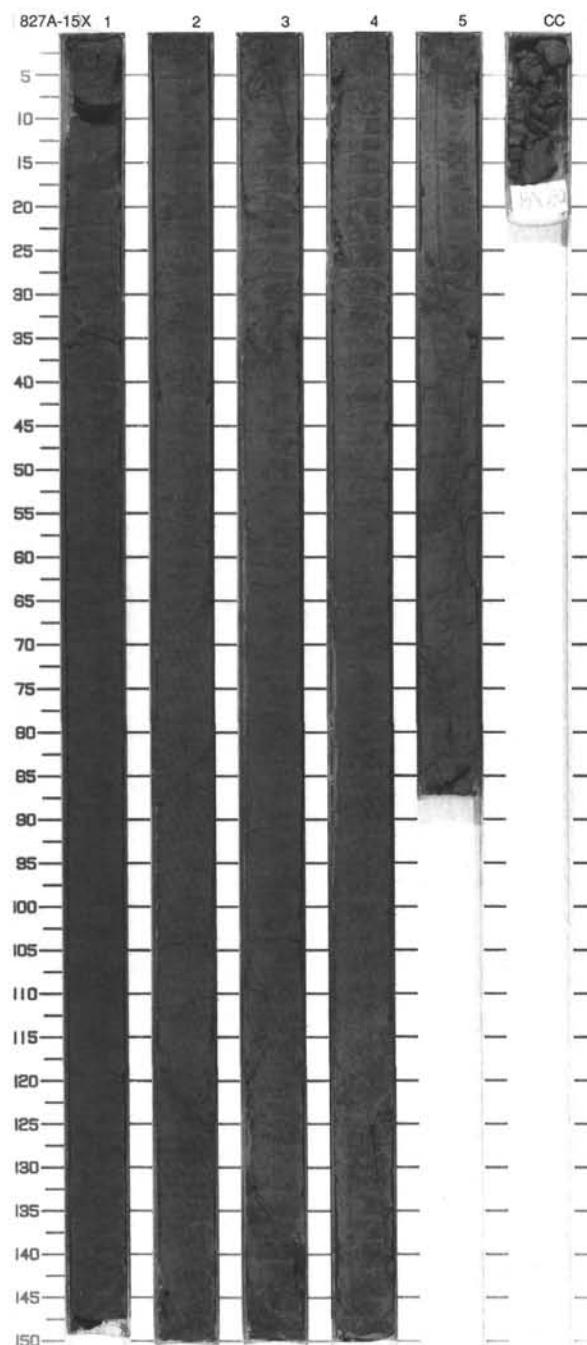
Sand	5
Silt	65
Clay	30

COMPOSITION:

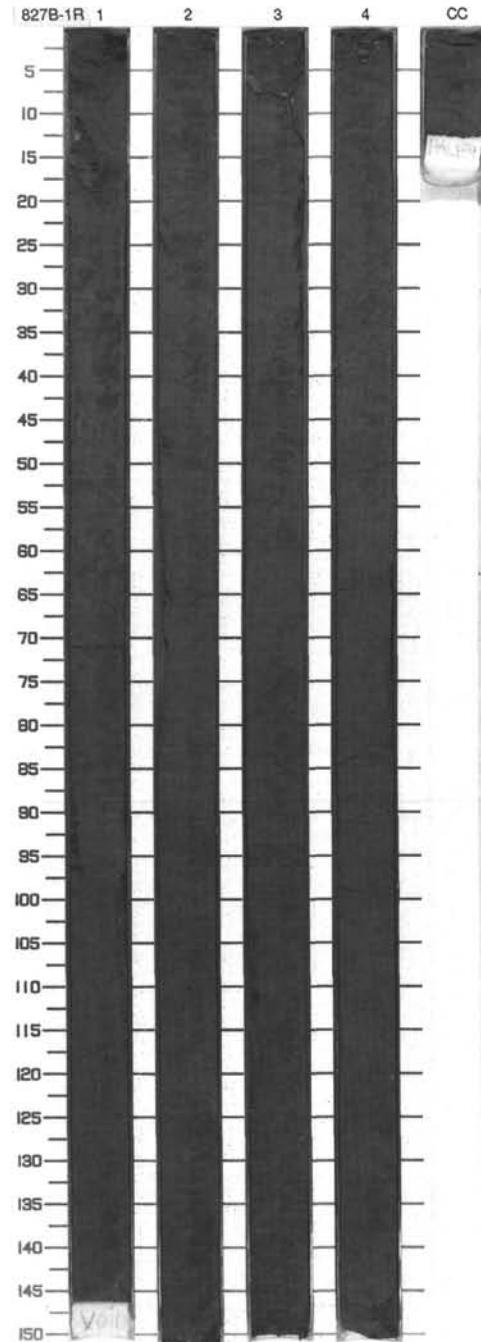
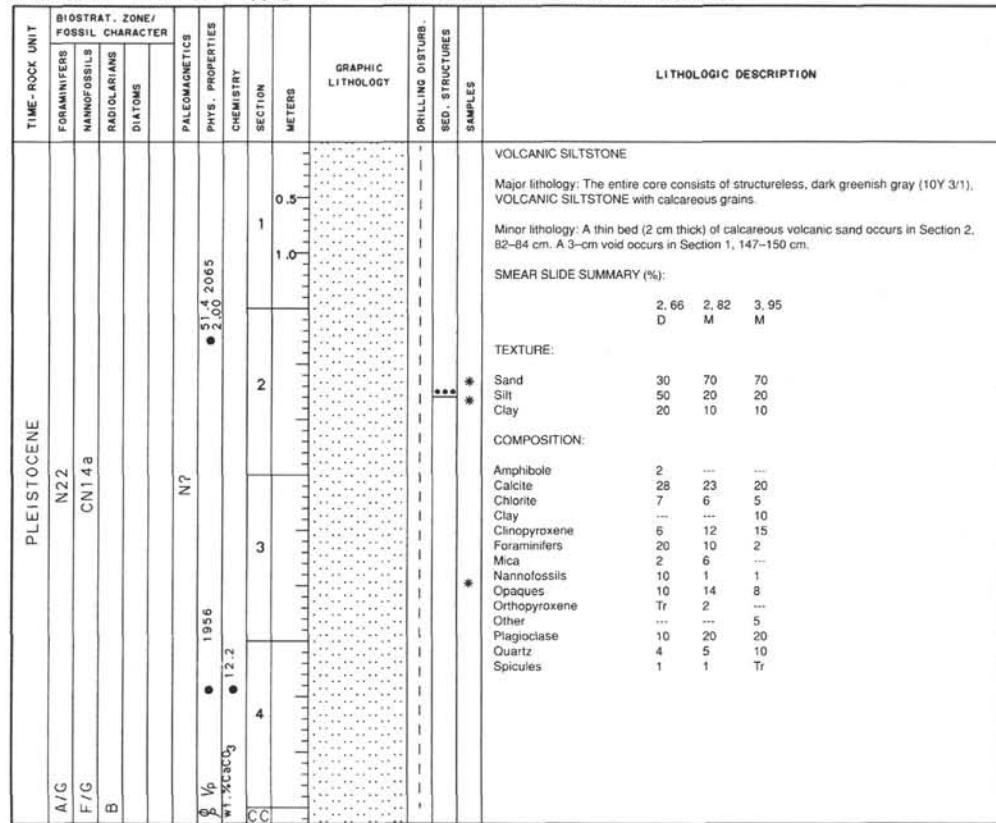
Calcite	30
Chlorite	5
Clinoptyroxene	5
Foraminifers	10
Opaques	3
Other	7
Plagioclase	15
Quartz	25
Radolarians	Tr
Spicules	Tr

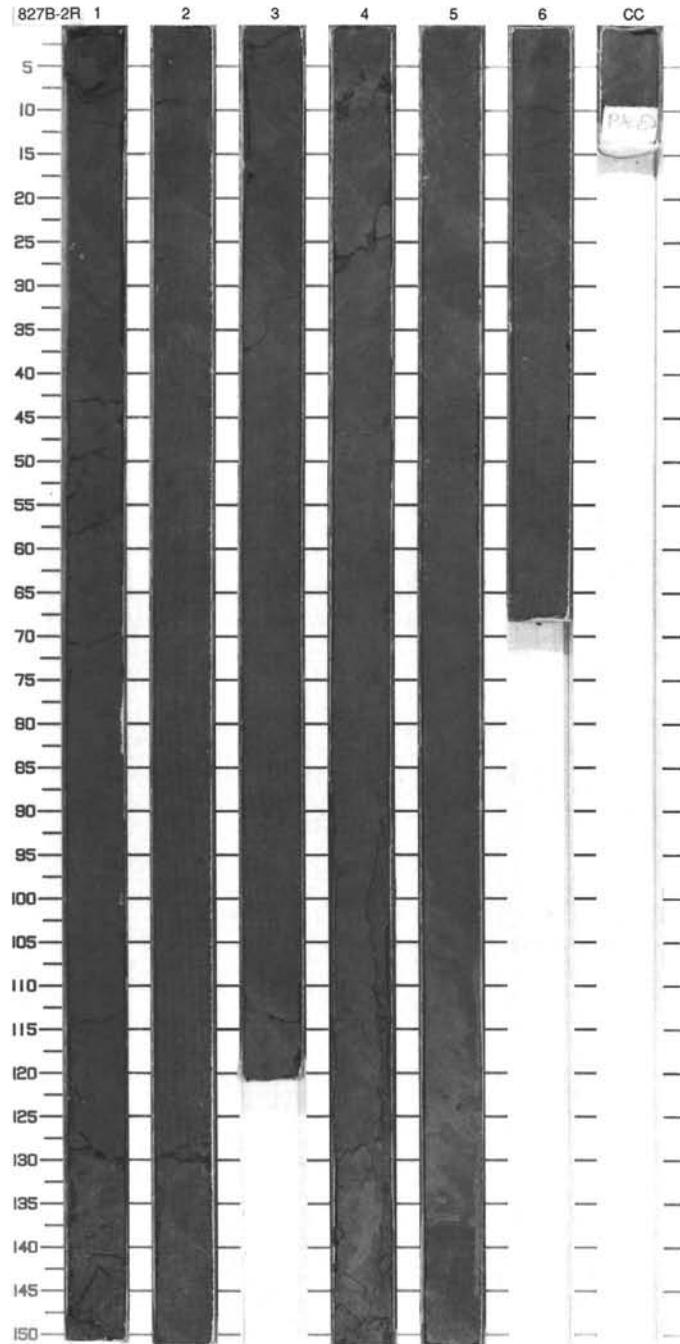
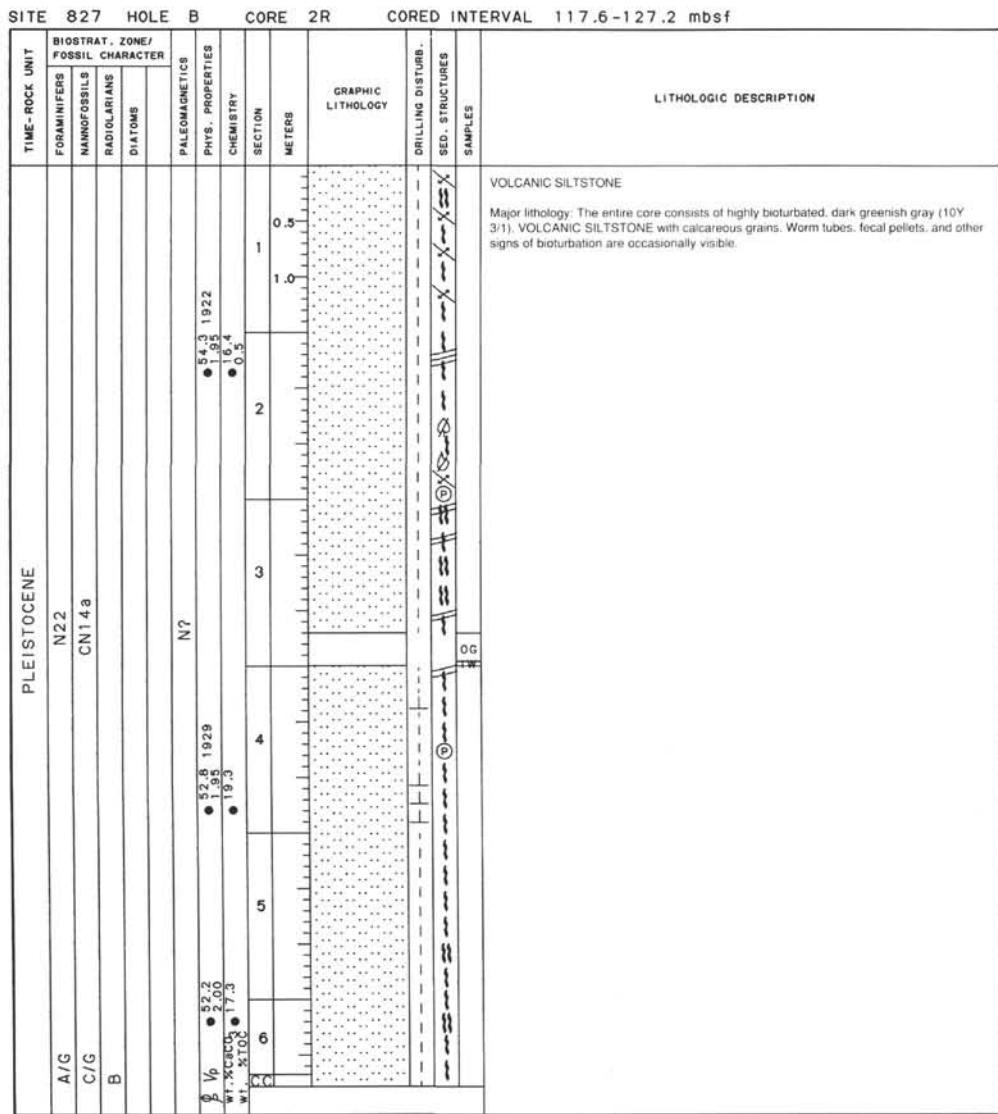


SITE 827		HOLE A	CORED INTERVAL 101.0-110.6 mbsf		
TIME-ROCK UNIT	BIOSTRAT. ZONE/FOSSIL CHARACTER	CORE	GRAPHIC LITHOLOGY		
			PALeOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY
N					
C/G	N22 w/ reworked PLIOCENE				
F/G	CN14 w/ reworked PLIOCENE and MIocene				
B					
∅ Vp wt.%CaCO ₃	54.6 1.9 17.9	1693.0 12.1	54.5 5.95		
CC					
LITHOLOGIC DESCRIPTION					
DRILLING DISTURB.					
SED. STRUCTURES					
SAMPLES					
*					
CLAYEY VOLCANIC SILT					
Major lithology The entire core consists of structureless, medium dark gray (N4) CLAYEY VOLCANIC SILT with calcareous grains to silt with calcareous grains. Foraminifers are a minor component (about 5-10%) of the sediment.					
SMEAR SLIDE SUMMARY (%):					
1, 88 5, 18 D D					
TEXTURE:					
Sand ... 20 Silt 80 70 Clay 20 10					
COMPOSITION:					
Calcite 35 47 Céladonite ... Tr Chlorite 3 ... Clinopyroxene 3 2 Foraminifers 3 5 Olivine 1 ... Opalines 5 5 Orthopyroxene 2 ... Other 22 ... Plagioclase 15 15 Quartz 10 20 Radiolarians ... Tr Spicules Tr 1					
*					

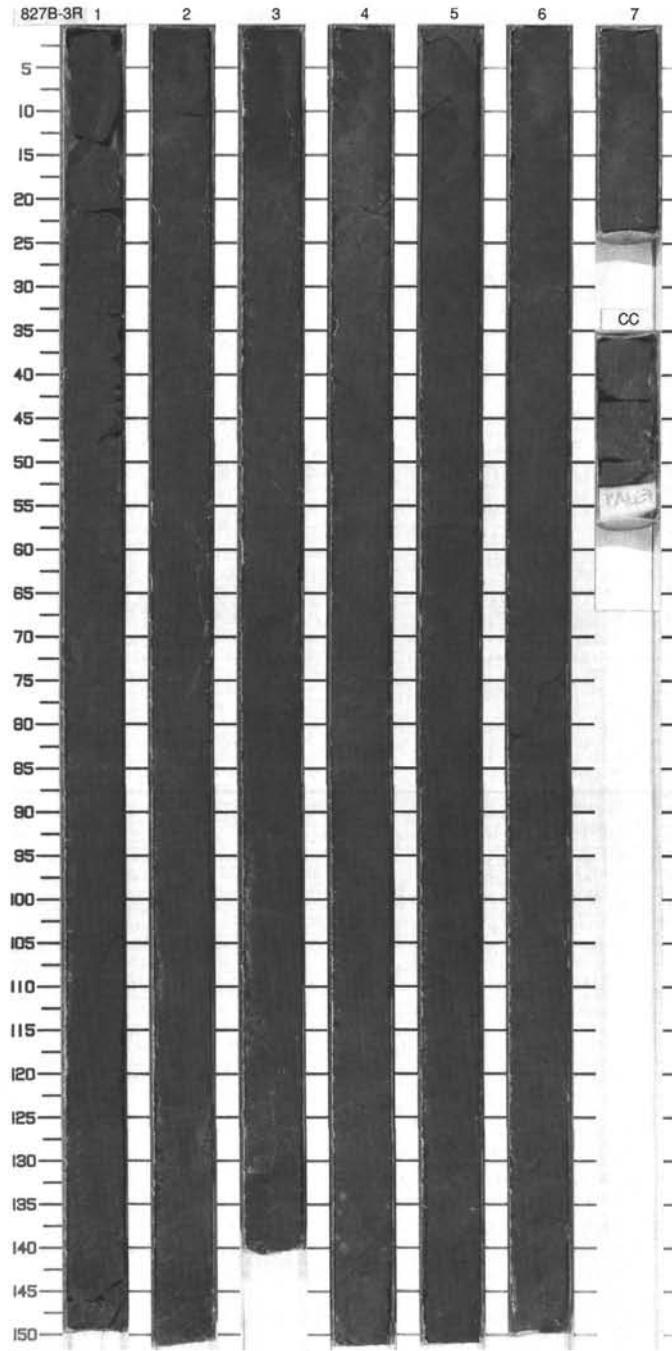
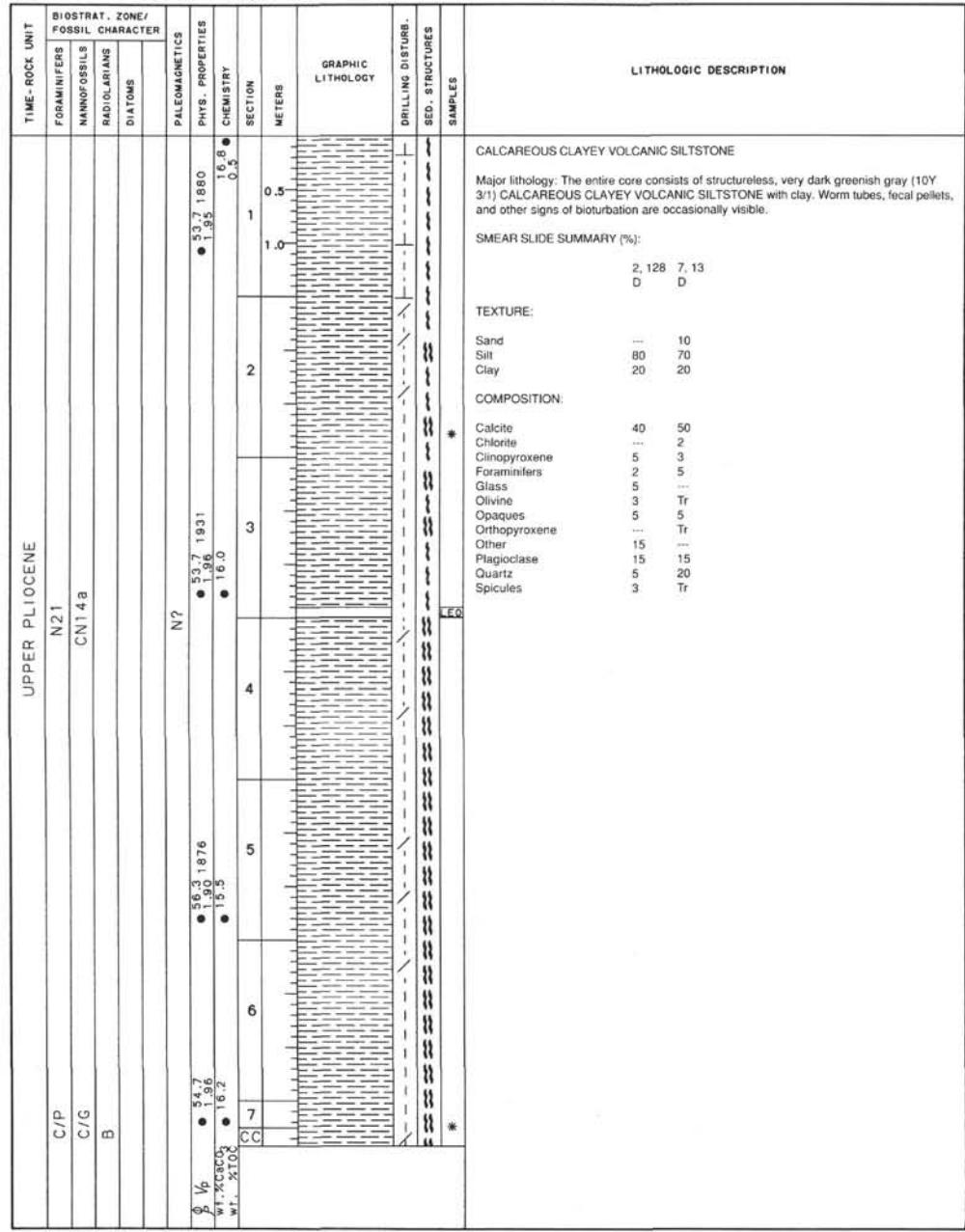


SITE 827 HOLE B CORE 1R CORED INTERVAL 110.6-117.6 mbsf

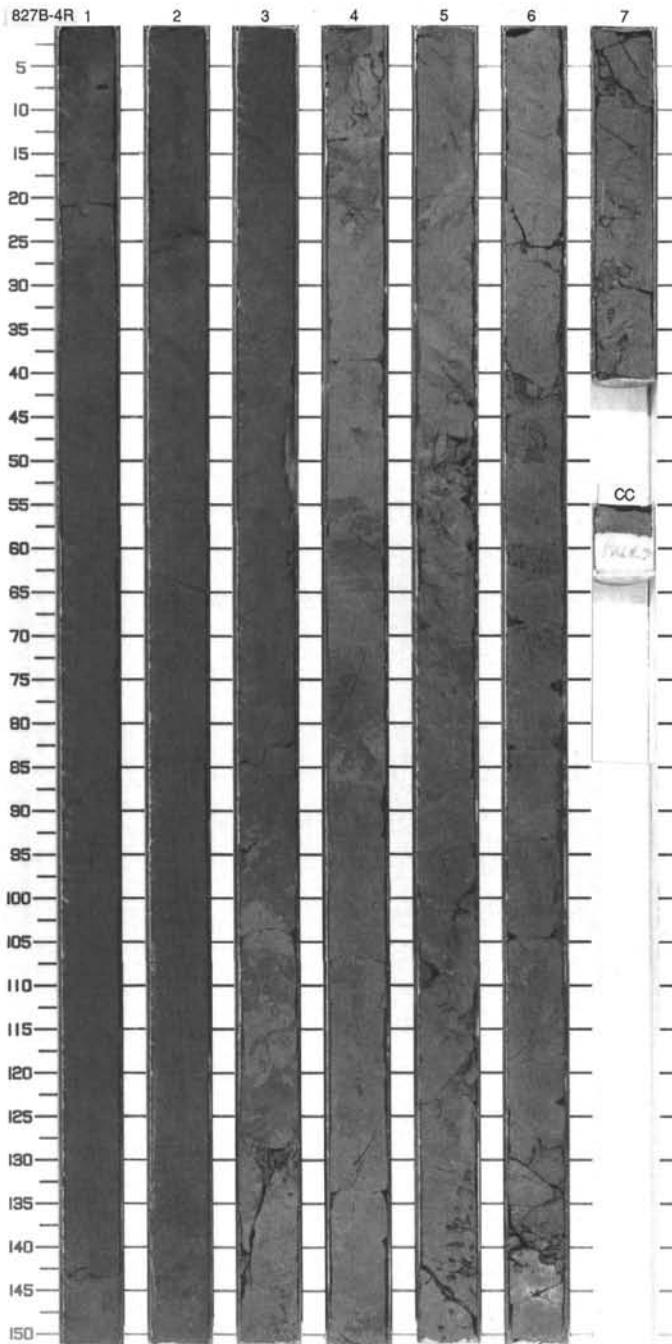
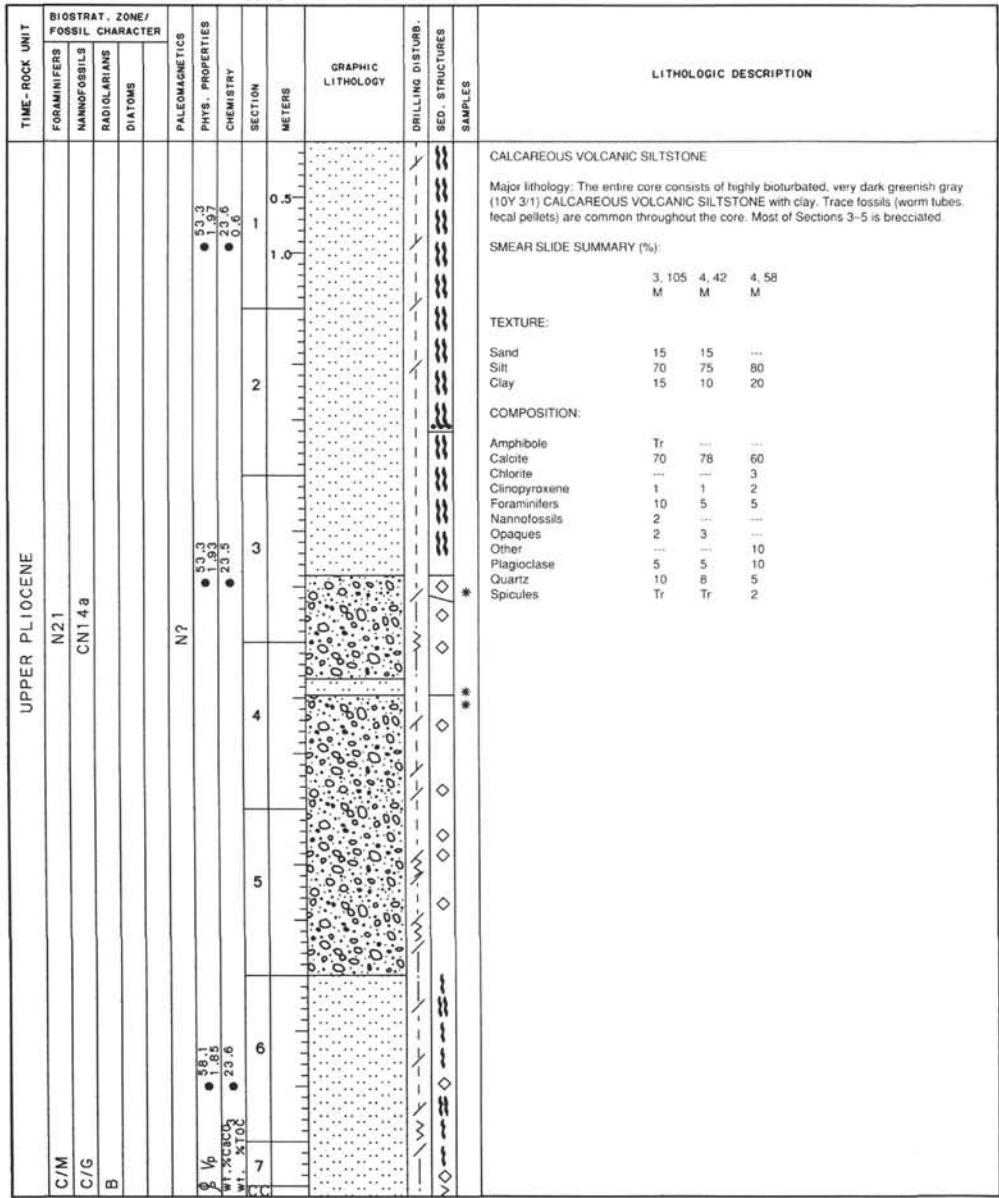




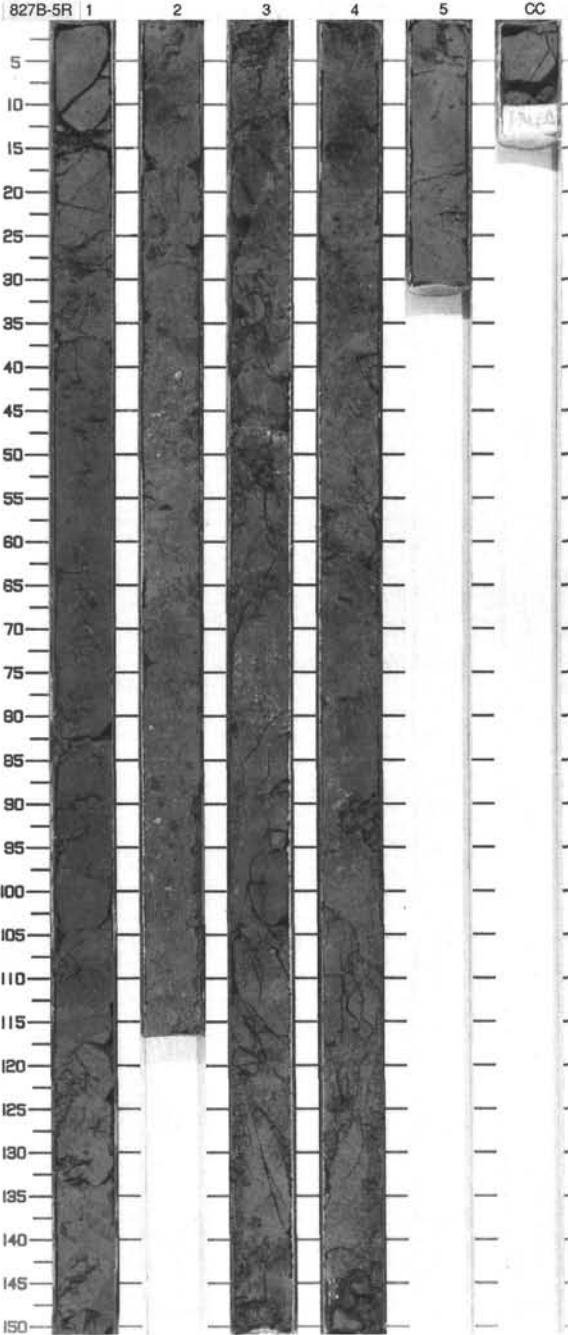
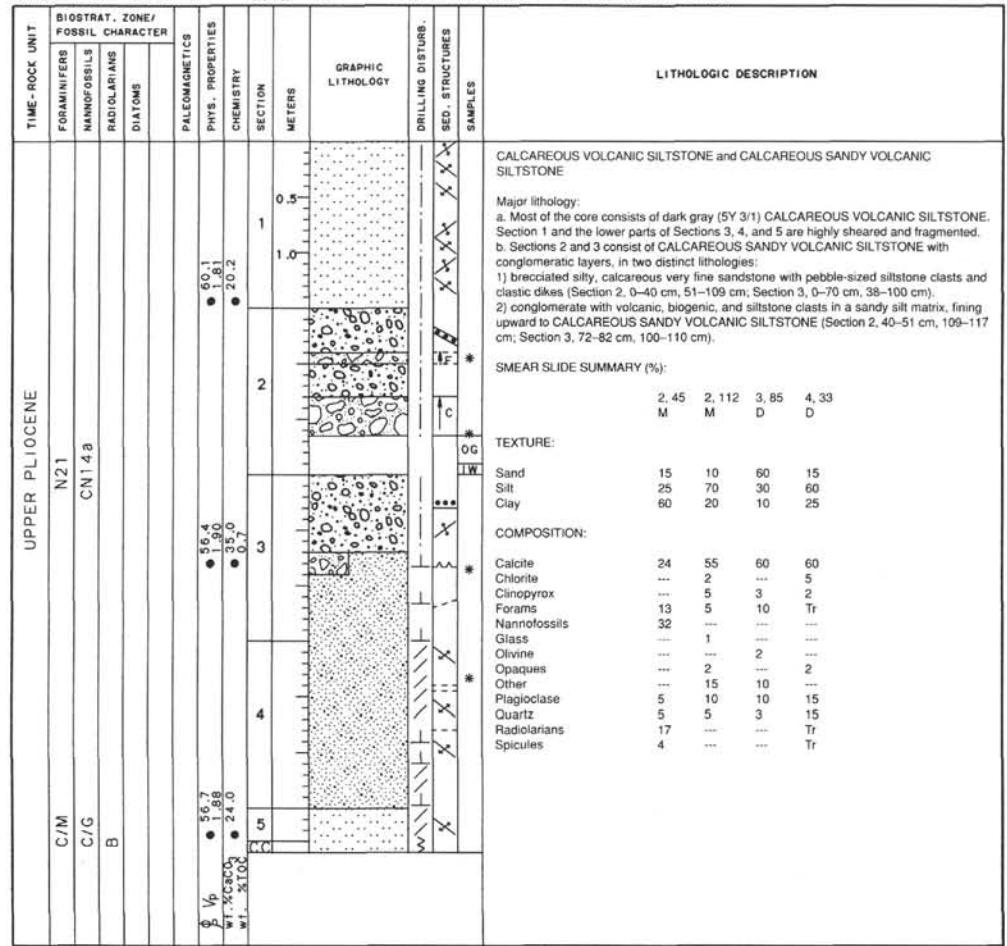
SITE 827 HOLE B CORE 3R CORED INTERVAL 127.2-136.9 mbsf



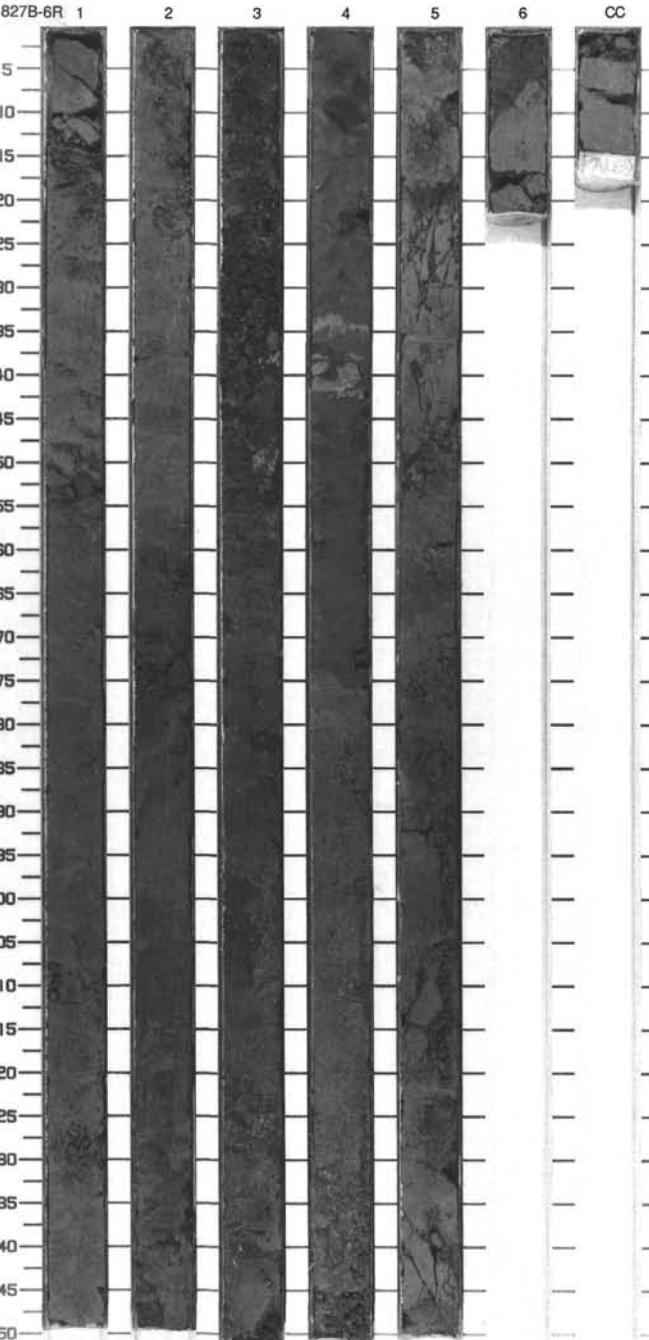
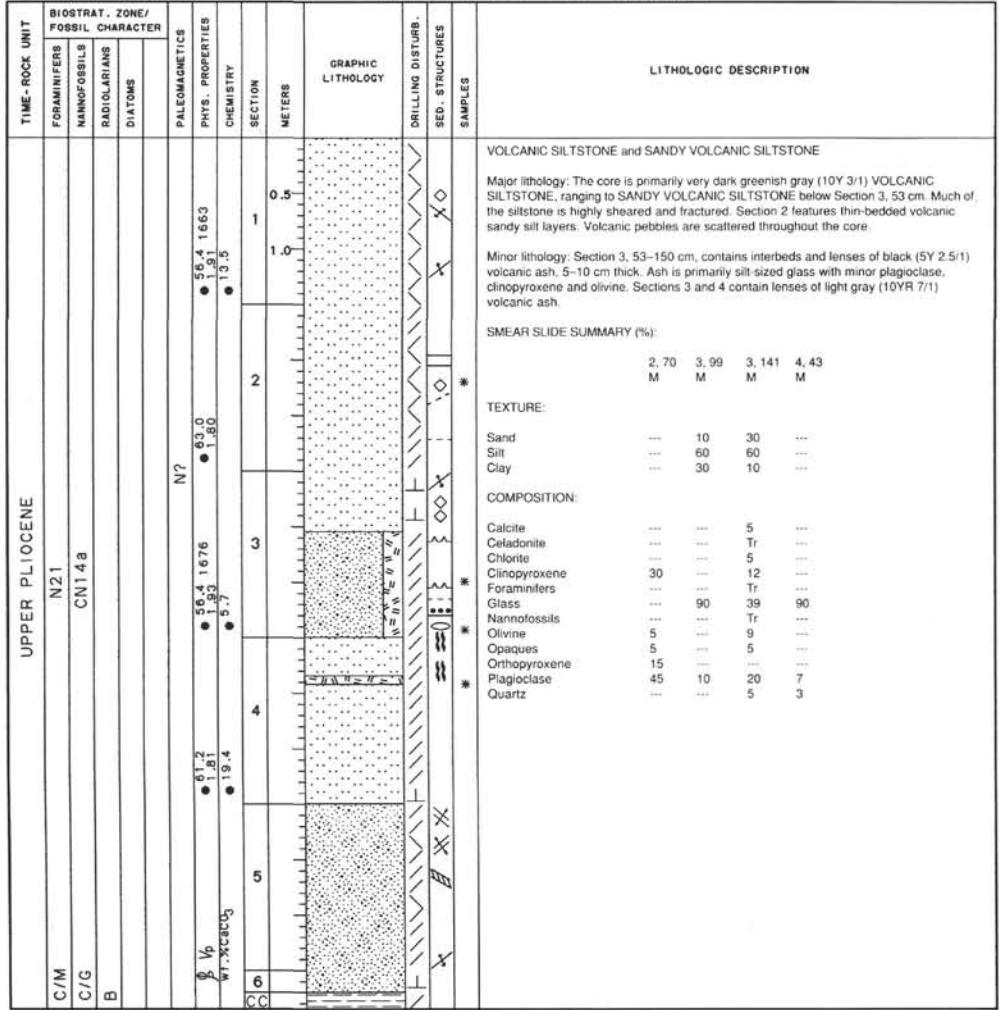
SITE 827 HOLE B CORE 4R CORED INTERVAL 136.9-146.5 mbsf



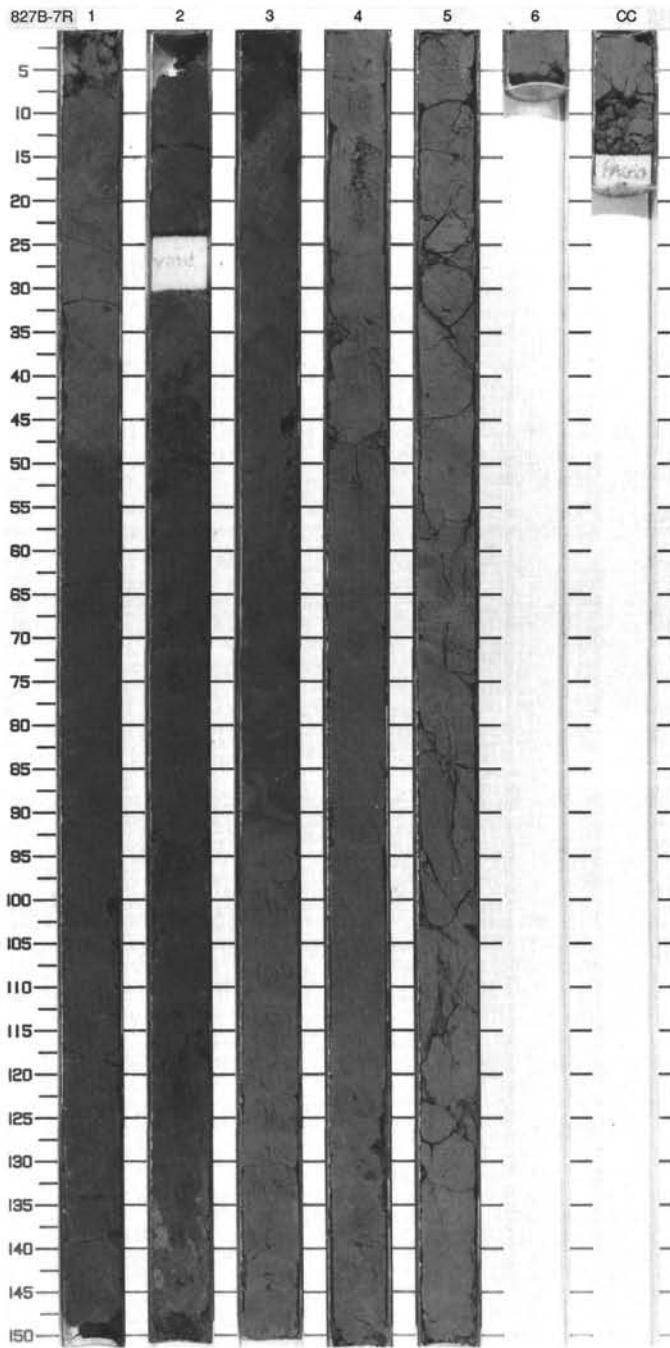
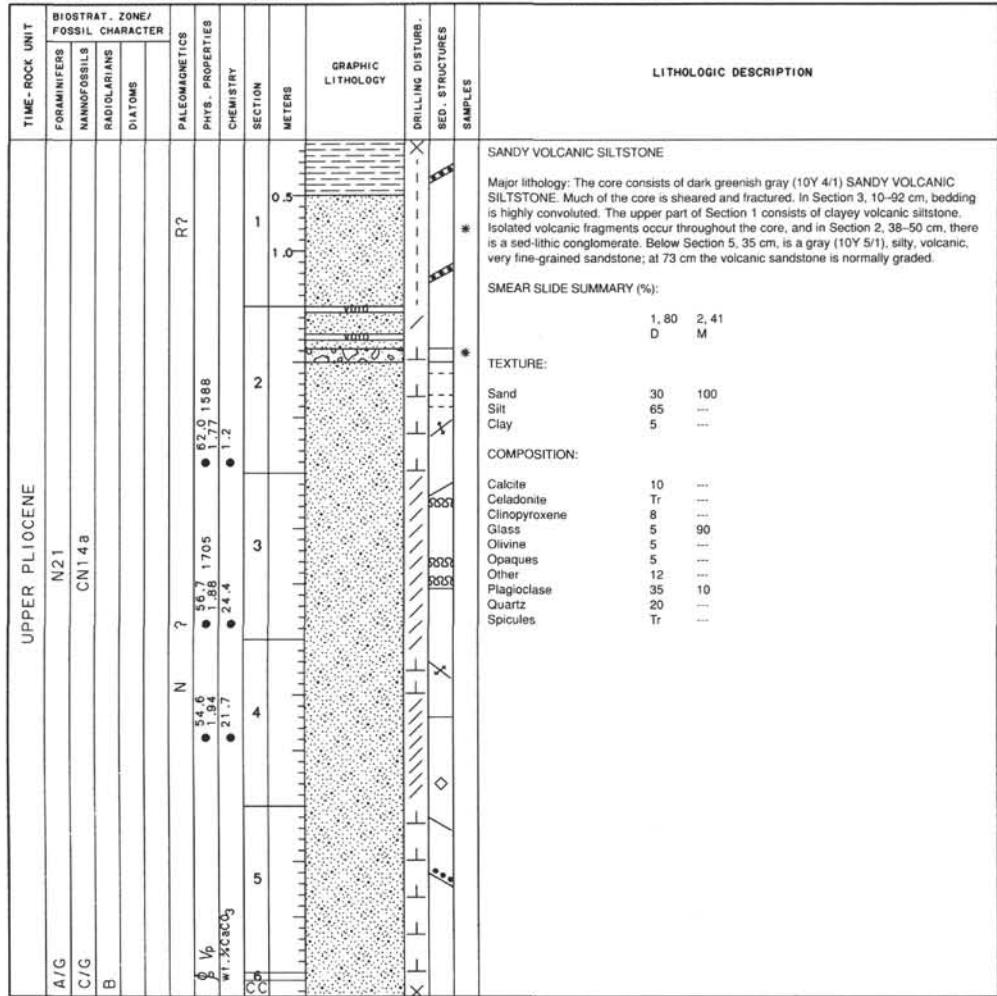
SITE 827 HOLE B CORE 5R CORED INTERVAL 146.5-156.2 mbfs



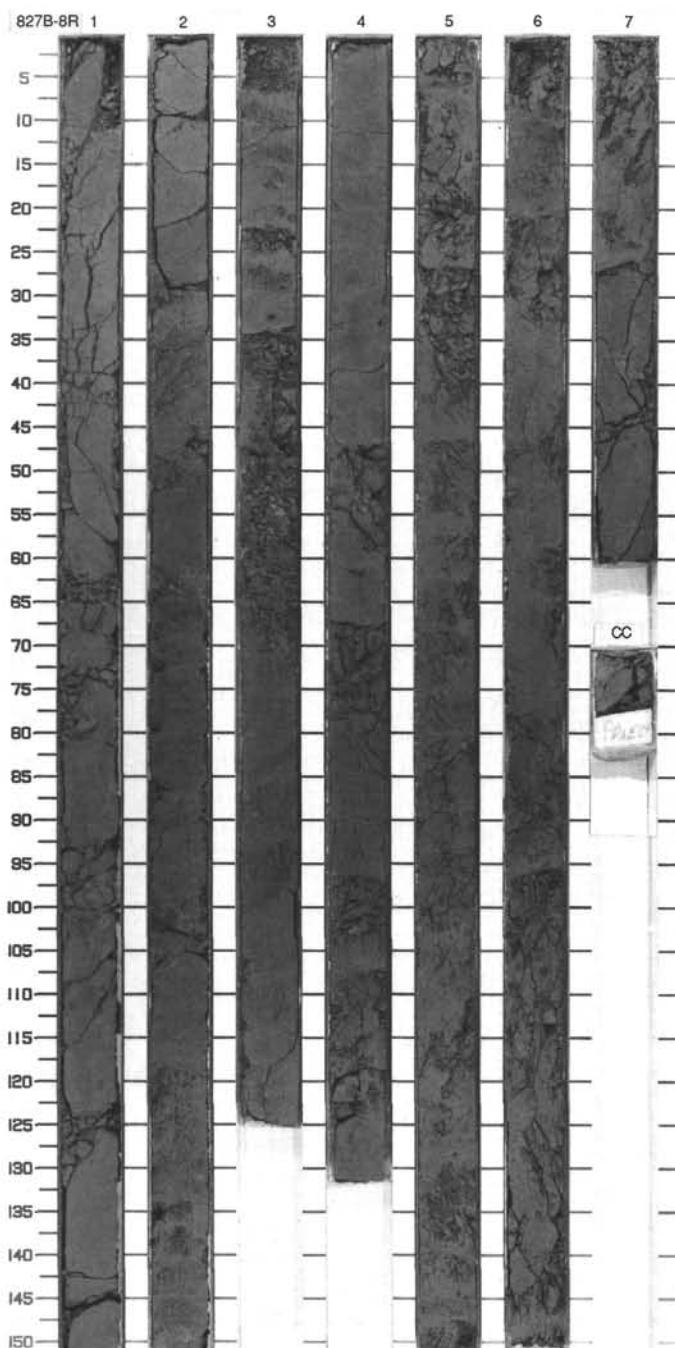
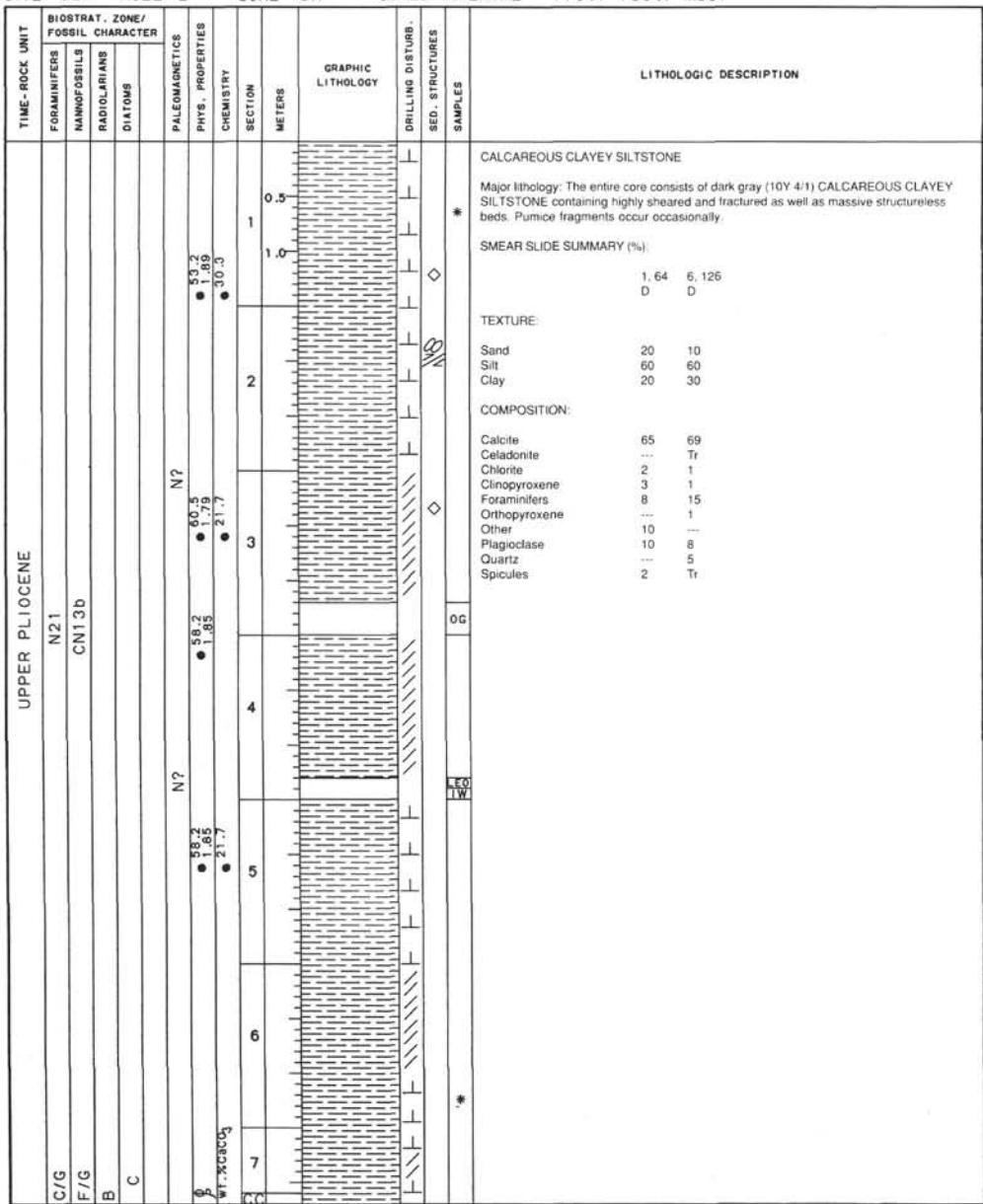
SITE 827 HOLE B CORED INTERVAL 156.2-165.8 mbsf



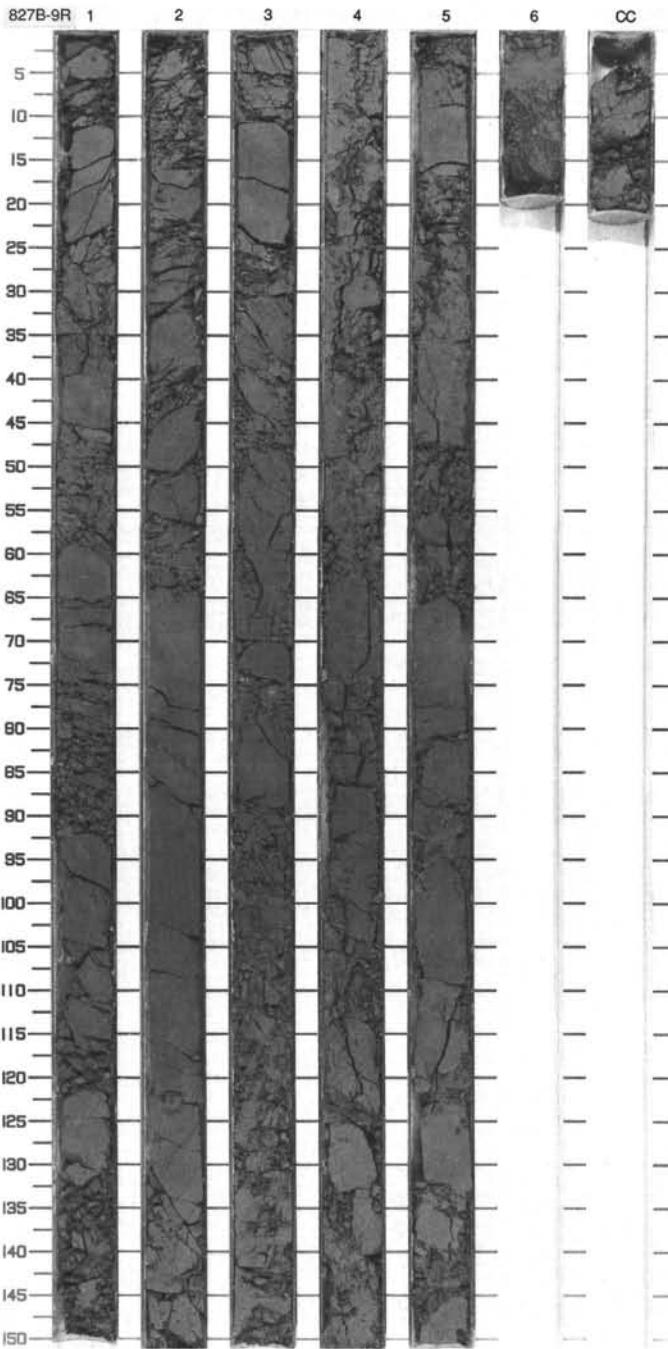
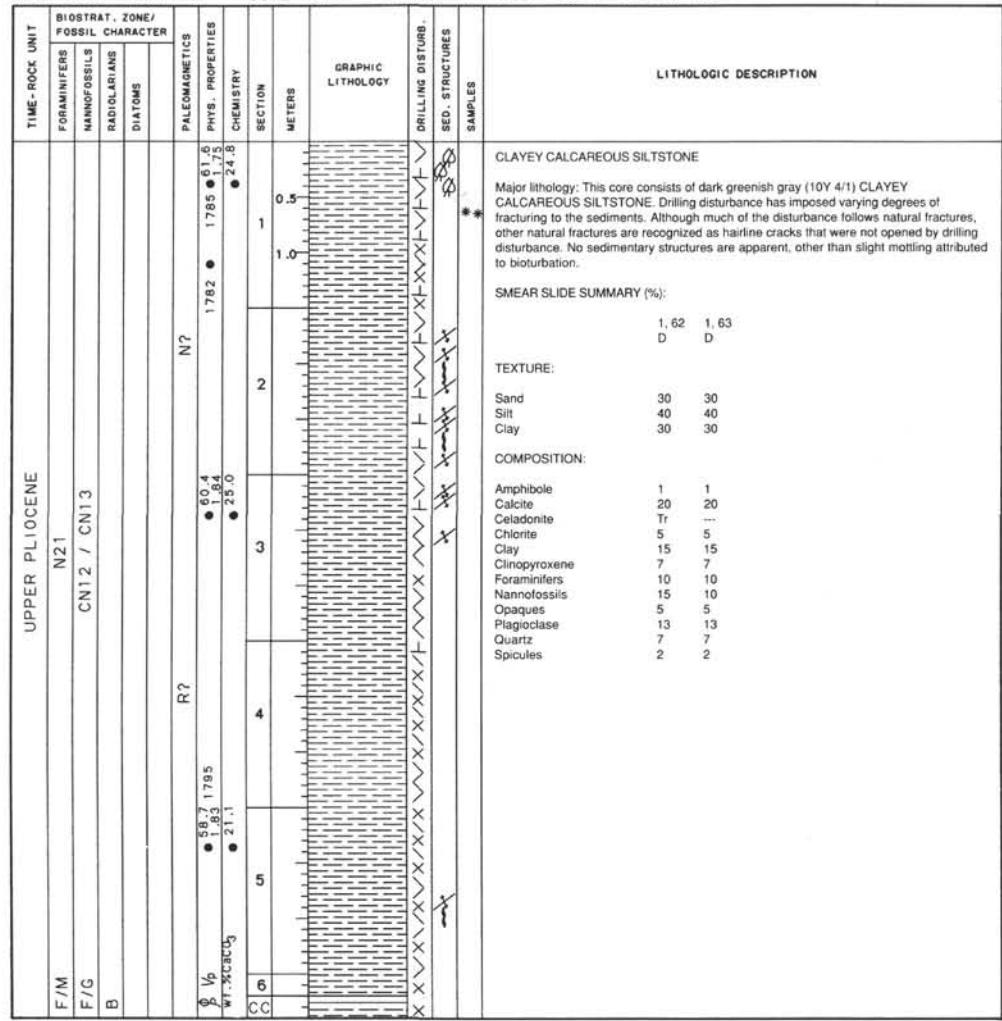
SITE 827 HOLE B CORED INTERVAL 165.8-175.4 mbsf



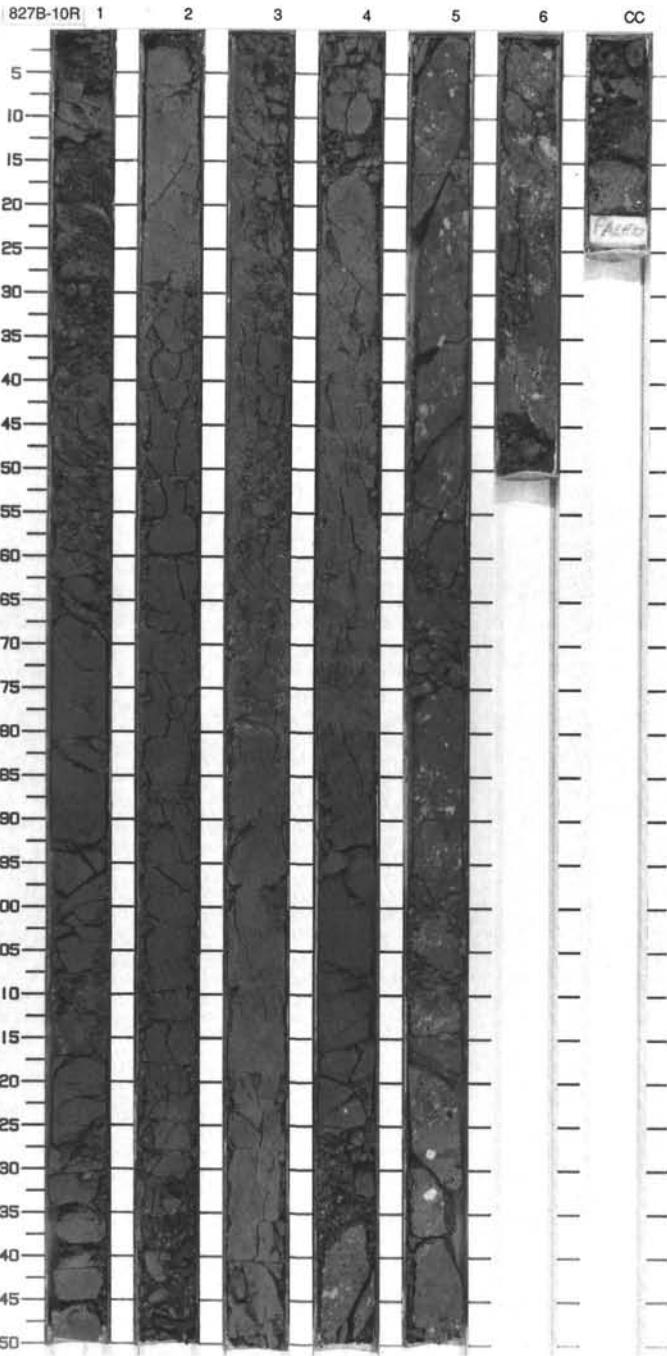
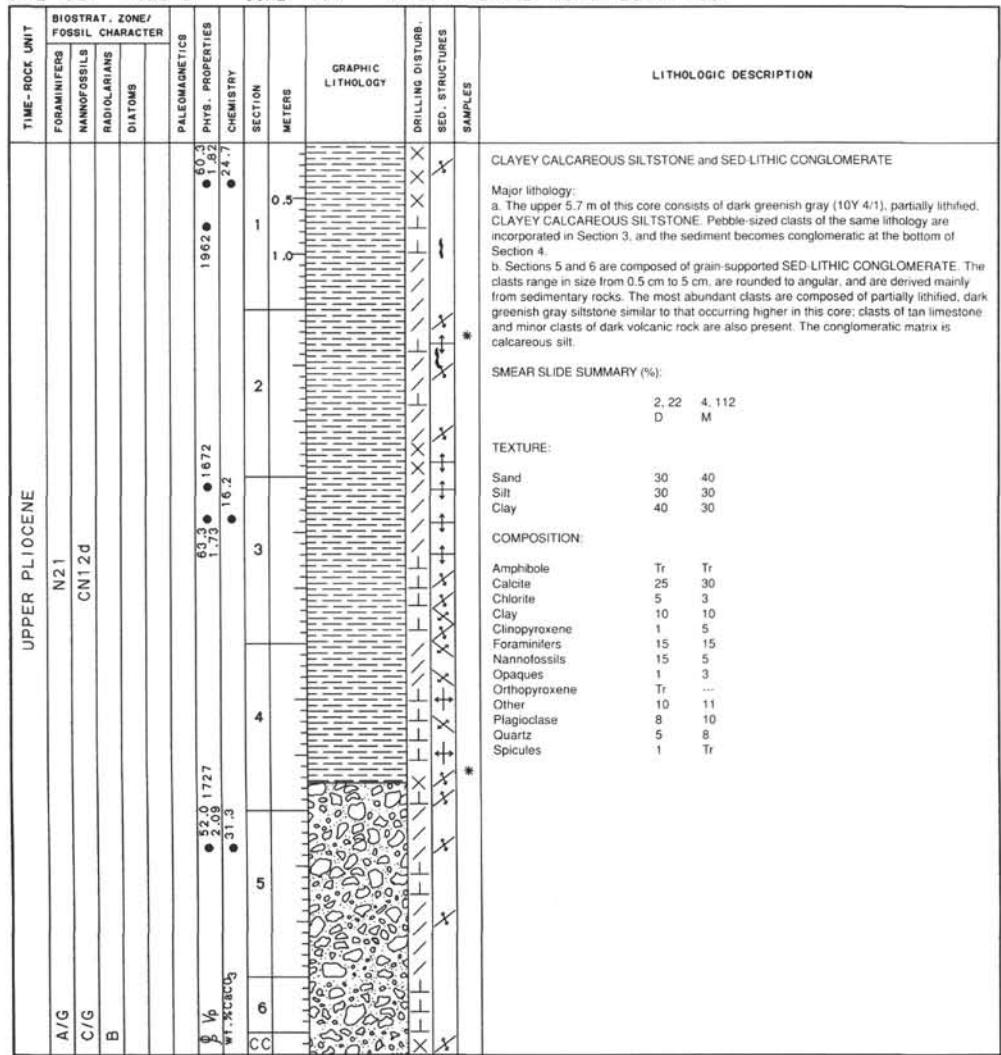
SITE 827 HOLE B CORE 8R CORED INTERVAL 175.4 - 185.1 mbsf



SITE 827 HOLE B CORE 9R CORED INTERVAL 185.1-194.7 mbsf

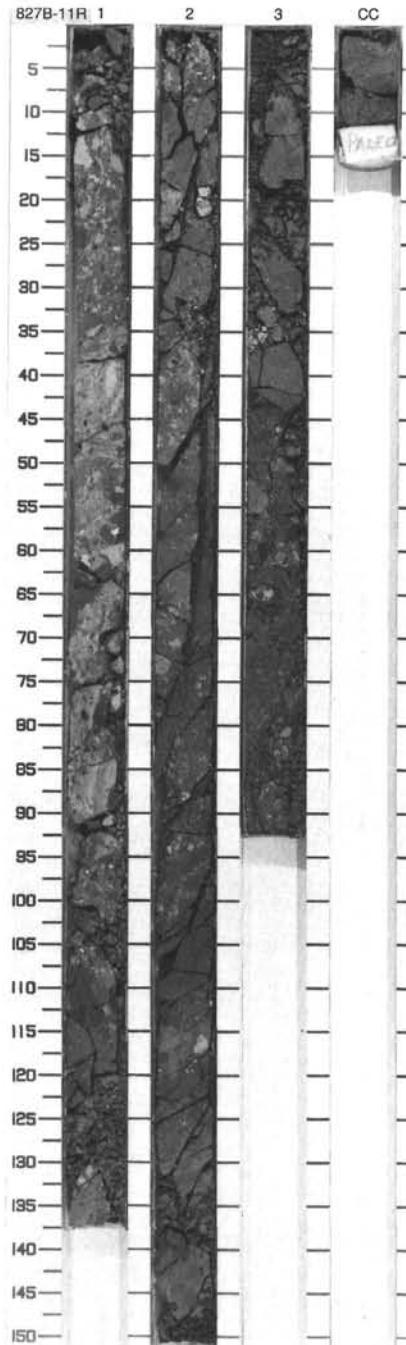


SITE 827 HOLE B CORE 10R CORED INTERVAL 194.7-204.4 mbsf



SITE 827 HOLE B CORE 11R CORED INTERVAL 204.4-214.0 mbsf

TIME - ROCK UNIT	BIOSTRAT., ZONE/ FOSSIL CHARACTER			
	FORAMINIFERS	NANNOFOSILS	RADIOLARIANS	DIASTOMS
PALaeomAGNETICS				
PHYS. PROPERTIES				
TIME - ROCK UNIT	N21	CN12d		
C/M				
F/G				
B				
<i>W_b</i>	51.0	57.2		
<i>W_{f/g}</i>	● 1.67	1888		
<i>W_c</i>				
		1913 ● 1.79		
CHEmISTRY				
GRAPHIC LITHOLOGY				
METERS	0.5	1	1.0	
SECTION	1	2	3	
DRILLING DISTURB.				
SED. STRUCTURES				
SAMPLES	*	*	*	IW
LITHOLOGIC DESCRIPTION				
SED-LITHIC CONGLOMERATE				
Major lithology: This core consists of SED-LITHIC CONGLOMERATE, ranging from grain-supported to matrix-supported. Clasts are 0.5 to 5 cm in size, rounded to angular, and derived mainly from sedimentary rocks. Clasts of dark greenish gray (10Y 4/1), partially lithified, calcareous silt (as described in Cores 9 and 10) and light greenish gray (10Y 7/1) pelagic limestone are abundant. Less abundant clasts include white limestone, coral fragments, wood fragments, and volcanic fragments. The matrix of the conglomerate is partially lithified, dark greenish gray, sandy calcareous silt. Tectonic fractures are common throughout the core and truncate clasts in places.				
SMEAR SLIDE SUMMARY (%):				
	1.16	1.56	1.73	3.74
	M	M	M	D
TEXTURE:				
Sand	5	90	5	50
Silt	85	---	60	30
Clay	10	10	35	20
COMPOSITION:				
Calcite	...	20	85	5
Chlorite	...	40	---	2
Clay	...	3	---	5
Cinopyroxene	...	10	---	1
Foraminiflers	1	2	---	30
Nannofossils	70	2	10	30
Other	4	---	3	9
Plagioclase	...	20	---	6
Quartz	...	3	---	2
Radiolarians	5	---	1	5
Spicules	20	---	1	5



SITE 827 HOLE B CORE 12R CORED INTERVAL 214.0-223.7 mbsf

TIME-ROCK UNIT	BIOSTRAT., ZONE/ FOSSIL CHARACTER	CORE	12R	CORED INTERVAL	214.0-223.7 mbsf	LITHOLOGIC DESCRIPTION			
						PALeOMAGNETICS	PALEOPHYS. - PROPERTIES	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS					SAMPLES	
UPPER PLIOCENE									
C/M N21	C/G CN12d	B							
• 49.6 1881 ∅ 1/6	• 2.02 1.97 1837 • 52.5								
SECTION									
1									
		2							
			3						
				CC					
					OG				
					*				
					*				
METERS									
0.5	1	1.0							
1.5	2	2.0							
2.5	3	2.5							
3.0		3.0							
3.5		3.5							
4.0		4.0							
4.5		4.5							
5.0		5.0							
5.5		5.5							
6.0		6.0							
6.5		6.5							
7.0		7.0							
7.5		7.5							
8.0		8.0							
8.5		8.5							
9.0		9.0							
9.5		9.5							
10.0		10.0							
10.5		10.5							
11.0		11.0							
11.5		11.5							
12.0		12.0							
12.5		12.5							
13.0		13.0							
13.5		13.5							
14.0		14.0							
14.5		14.5							
15.0		15.0							

Major lithology: This core is dominated by CALCAREOUS CLAYEY SILTSTONE. This siltstone occurs in two dark greenish gray shades (10Y 4/1 and 10Y 3/1). Fractures, some with slickensides, are common and intersect the core at roughly 30° angles. It appears that stringers and fingers of the minor lithologies penetrate upward into the major lithology. The siltstone is mottled, but there are no clear examples of primary sedimentary structures.

Minor lithology:

- a. Sed-lithic conglomeratic calcareous sandstone occurs in Sections 1 and 3. The sandstone is lighter in color (10Y 5/1) than the major lithology and appears to penetrate upward into the siltstone.
- b. Poorly sorted, calcareous, silty sandy sed-lithic conglomerate, darker in color than the other minor lithology, occurs in Section 2. Its pebbles range from very well-rounded to very angular.

SMEAR SLIDE SUMMARY (%):

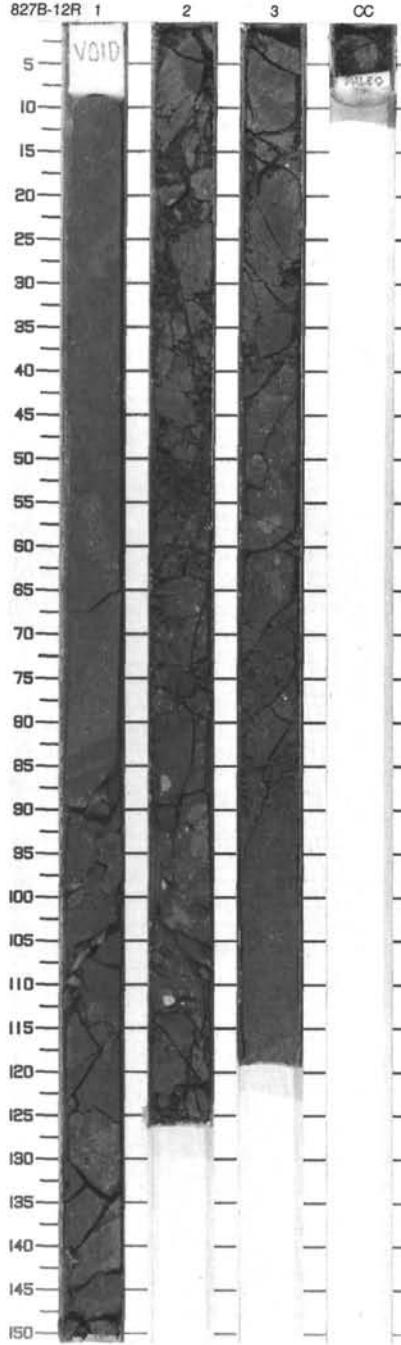
1, 80	3, 110
M	D

TEXTURE:

Sand	70	20
Silt	20	50
Clay	10	30

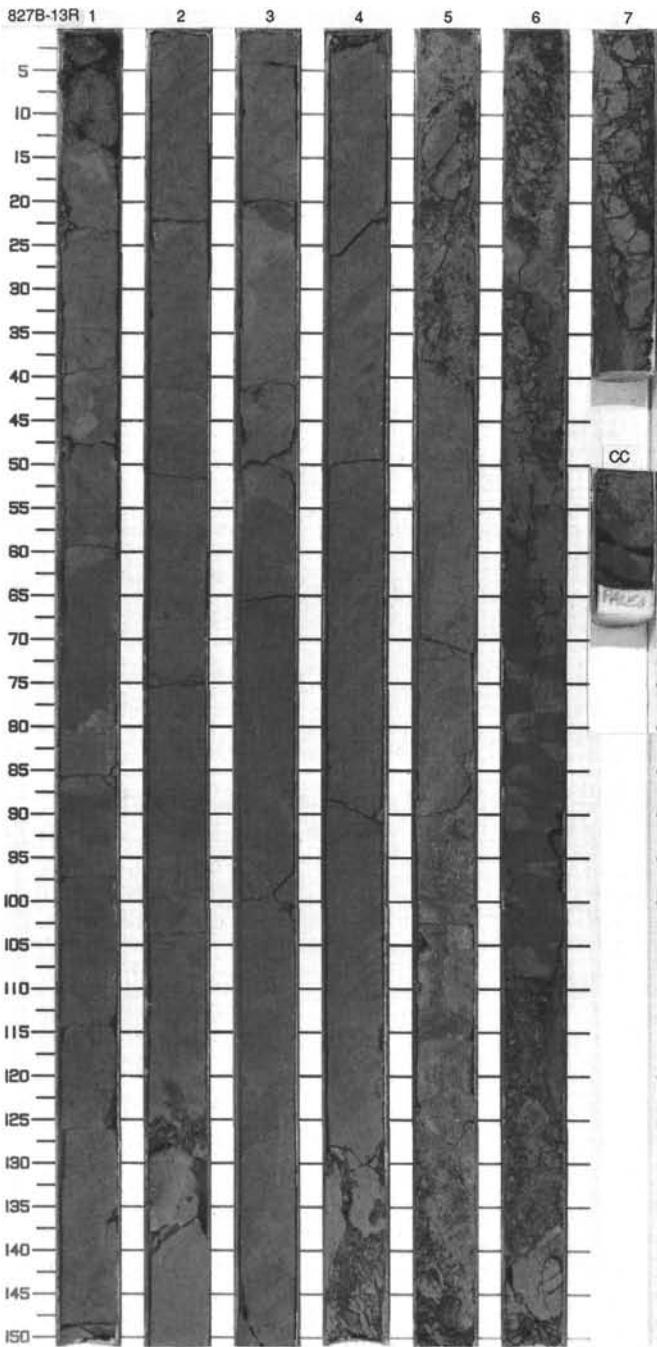
COMPOSITION:

Amphibole	Tr	Tr
Calcite	30	30
Clay	—	15
Clinopyroxene	1	2
Foraminifers	50	10
Mica	—	Tr
Nannofossils	5	20
Other	6	13
Plagioclase	6	5
Quartz	2	5
Spicules	Tr	Tr

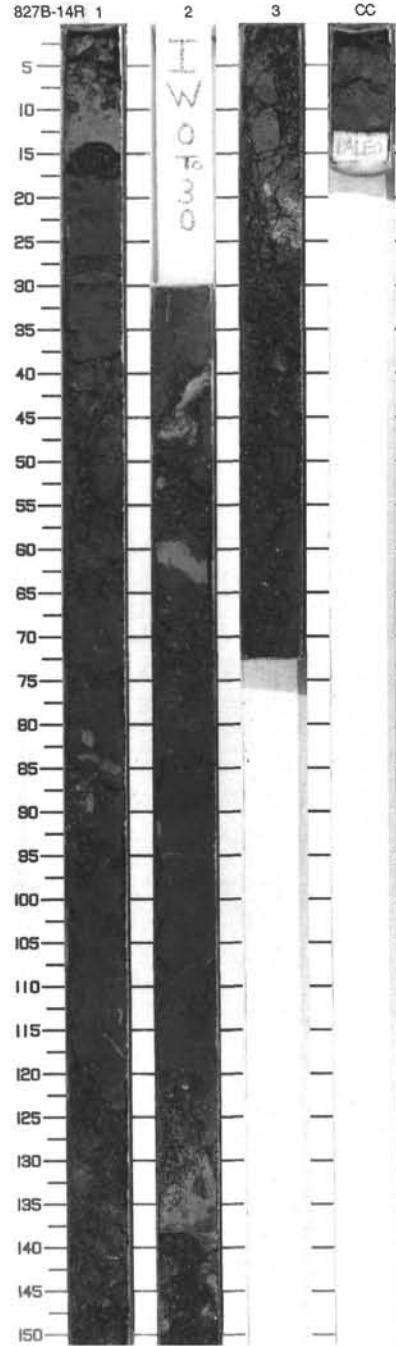
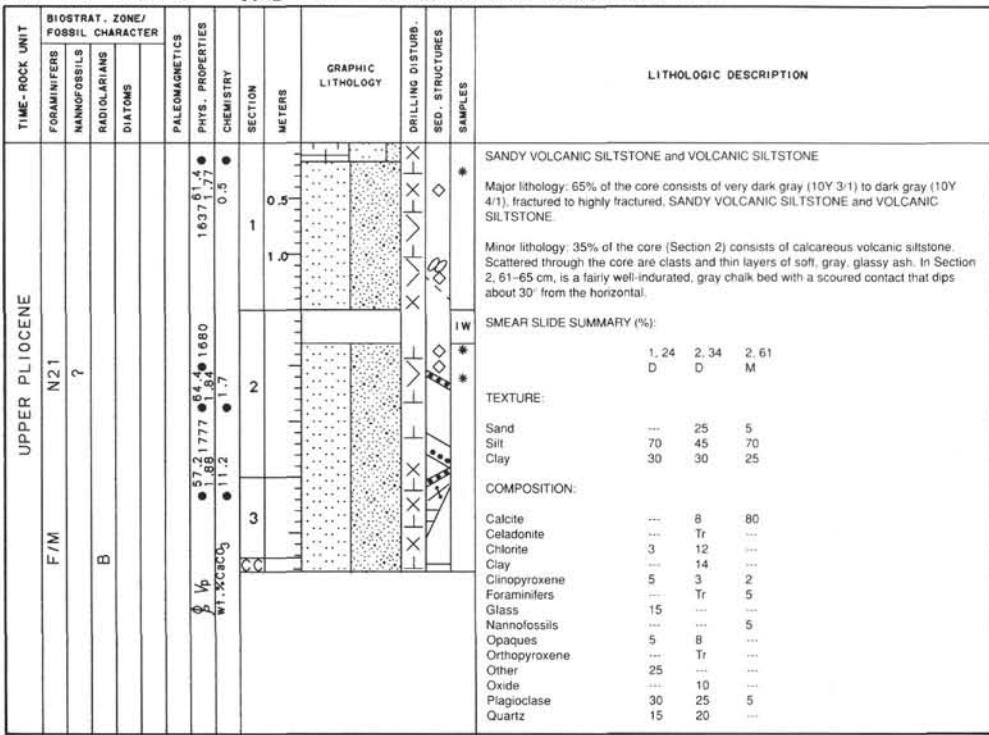


SITE 827 HOLE B CORE 13R CORED INTERVAL 223.7-233.3 mbsf

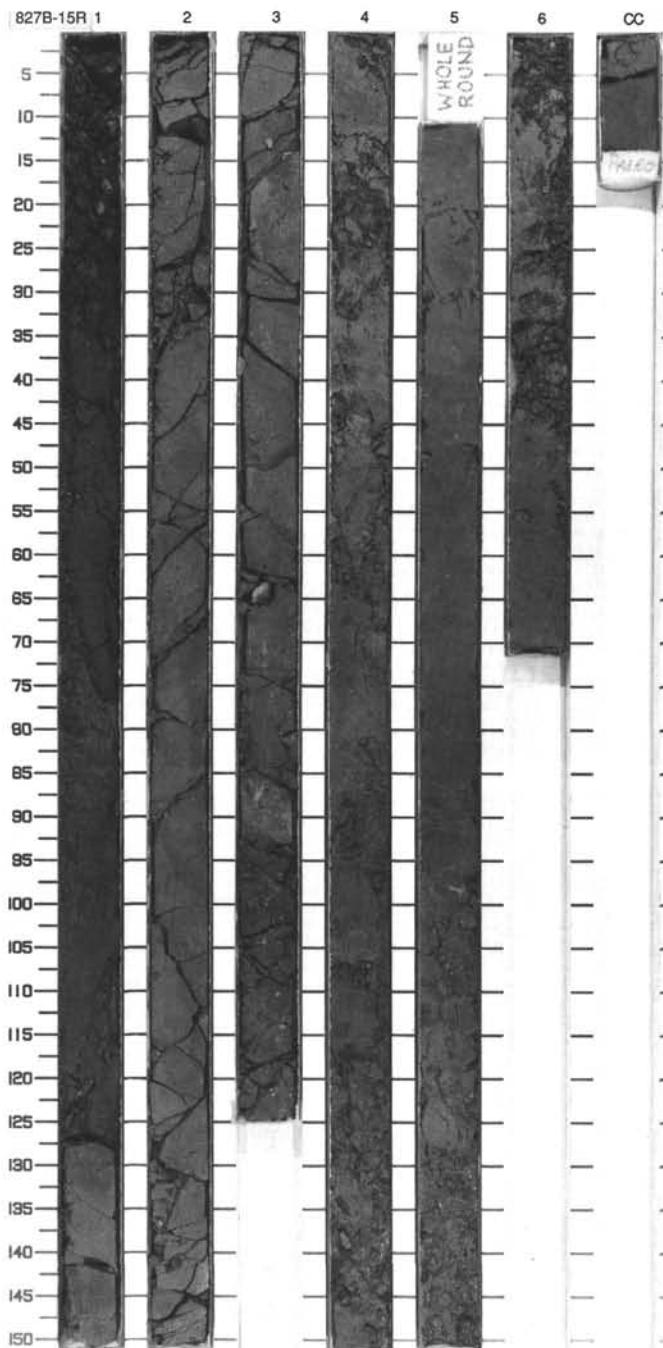
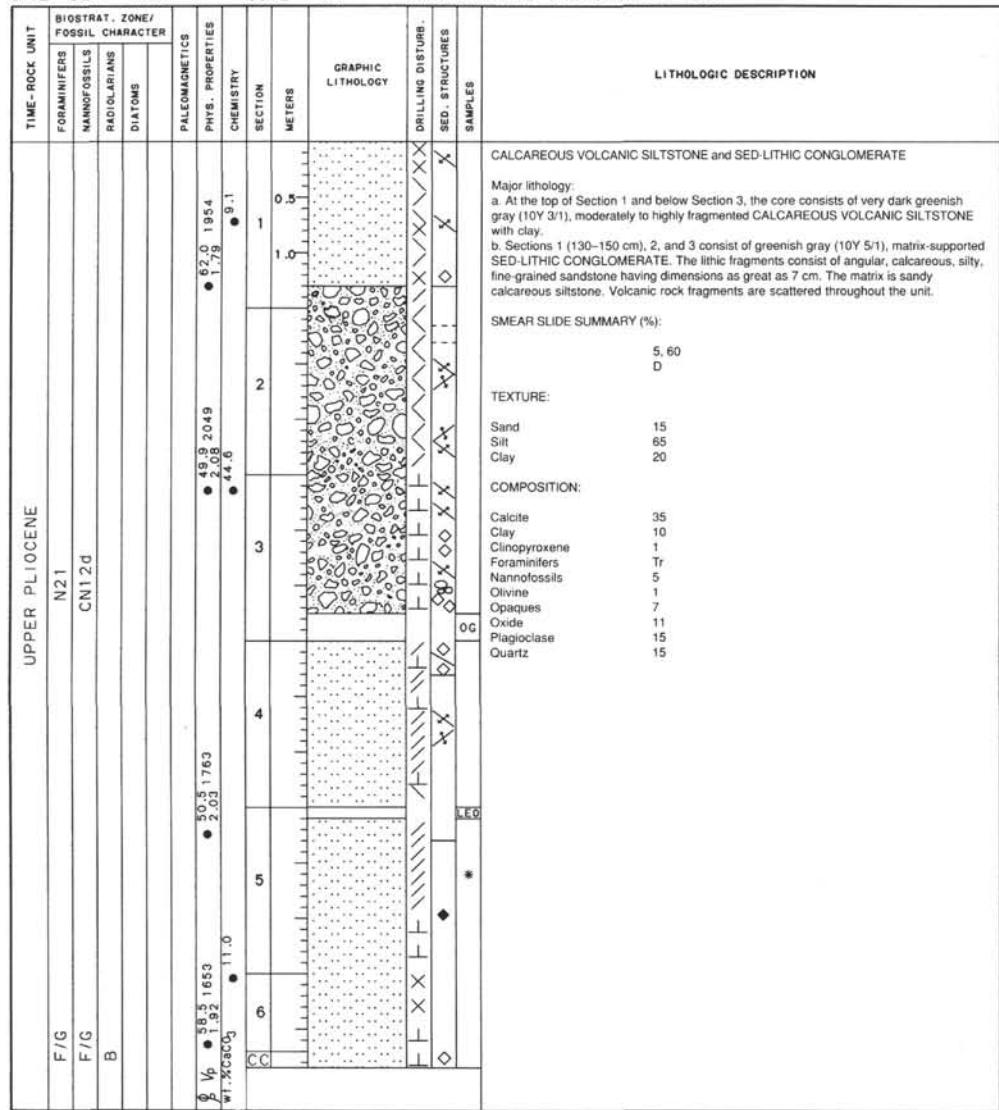
TIME-ROCK UNIT	BIOSSTRAT. ZONE/ FOSSIL CHARACTER	PALaeOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	LITHOLOGIC DESCRIPTION						
					FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES
UPPER PLIOCENE	N21										
C/G	?										
B											
6	● 61.3 1657 ● 1.95 w.X-203	● 48.0 1901 ● 2.03 1744 ● 35.7	1831 ● 50.1 ● 1.99 ● 42.4								
7											
CC											



SITE 827 HOLE B CORE 14R CORED INTERVAL 233.3-243.0 mbsf



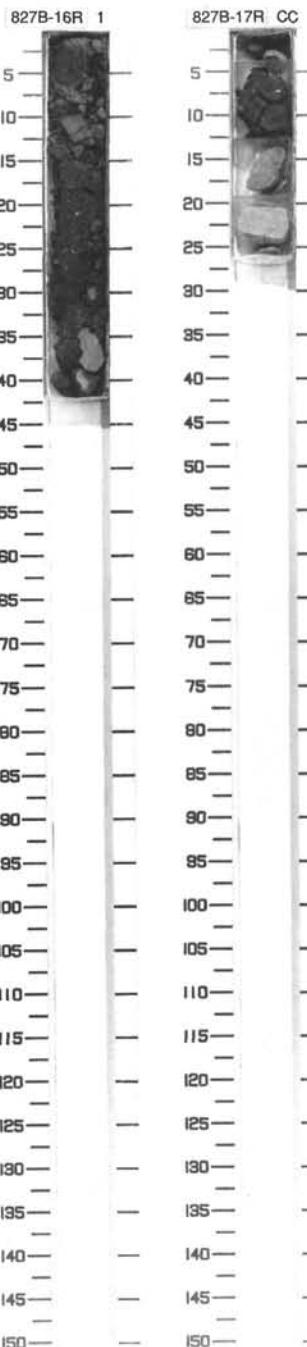
SITE 827 HOLE B CORE 15R CORED INTERVAL 243.0-252.6 mbsf



SITE 827 HOLE B CORE 16R CORED INTERVAL 252.6-262.3 mbsf

SITE 827 HOLE B CORE 17R CORED INTERVAL 262.3-272.0 mbsf

TIME - ROCK UNIT	BIOSTRAT., ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS				LITHOLOGIC DESCRIPTION			
	B FORAMINIFERS	B NANOFOSSELS	B RADOLARIANS	B DIATOMS	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	SAMPLES	
?	B	B	B	B	4678 2.67	C	16	●	17.4	16	16	



SITE 827 HOLE B CORE 18R CORED INTERVAL 272.0-281.7 mbsf

TIME-ROCK UNIT	? BIOTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	LITHOLOGIC DESCRIPTION									
								FORAMINIFERS	NANNOFOSILS	RADIOLARIANS							
$V_f = 3409 \bullet$																	
Major lithology: The small amount of recovered material consists of very dark greenish gray (10Y 5/1), lithified, medium- to coarse-grained, VOLCANIC SANDSTONE having grains of quartz, feldspar, pyroxene, hornblende, iron oxide minerals, epidote cemented by calcite. All of the material occurs as clasts, although the clasts may result from drilling. The original size of the clasts is impossible to determine because of drilling disturbance.																	
VOLCANIC SANDSTONE																	

SITE 827 HOLE B CORE 19R CORED INTERVAL 281.7-291.3 mbsf

TIME-ROCK UNIT	? BIOTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	LITHOLOGIC DESCRIPTION									
								FORAMINIFERS	NANNOFOSILS	RADIOLARIANS							
$\phi = 21.4 \bullet$																	
$\rho = 2.39$																	
Major lithology: The small amount of recovered material consists of very dark greenish gray (10Y 5/1), lithified, medium- to coarse-grained, VOLCANIC SANDSTONE clasts having grains of quartz, feldspar, pyroxene, hornblende, iron oxide minerals, and epidote cemented by calcite. The original size of the clasts is impossible to determine because of drilling disturbance.																	
VOLCANIC SANDSTONE																	

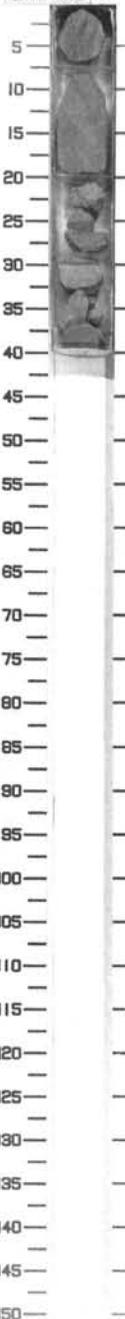
SITE 827 HOLE B CORE 20R CORED INTERVAL 291.3-301.0 mbsf

TIME-ROCK UNIT	? BIOTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	LITHOLOGIC DESCRIPTION									
								FORAMINIFERS	NANNOFOSILS	RADIOLARIANS							
Major lithology: The small amount of recovered material consists of very dark greenish gray (10Y 5/1), lithified, medium- to coarse-grained, VOLCANIC SANDSTONE clasts having grains of quartz, feldspar, pyroxene, hornblende, iron oxide minerals, and epidote cemented by calcite. The original size of the clasts is impossible to determine because of drilling disturbance.																	
Minor lithology: Volcanic siltstone with calcareous cement. Section 1, Piece 1, 20-25 cm consists of material similar to the major lithology with the difference that it is finer grained.																	
VOLCANIC SANDSTONE																	

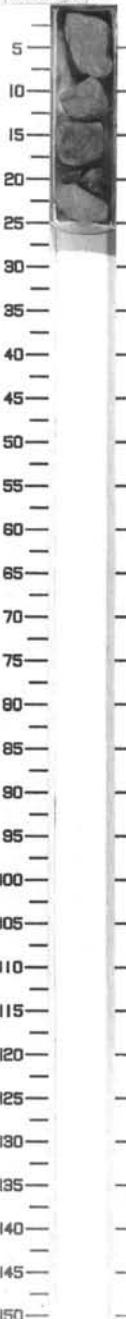
SITE 827 HOLE B CORE 21R CORED INTERVAL 301.0-310.6 mbsf

TIME-ROCK UNIT	? BIOTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	LITHOLOGIC DESCRIPTION									
								FORAMINIFERS	NANNOFOSILS	RADIOLARIANS							
Major lithology: The core comprises very dark greenish gray (10Y 5/1), lithified, medium- to coarse-grained, VOLCANIC SANDSTONE with calcareous cement. Grains consist of quartz, feldspar, pyroxene, hornblende, and hematite. Veins of calcite up to 2 mm thick are especially conspicuous in Section 1, Piece 6, 24-34 cm. The extremely poor recovery and condition of the clasts suggest damage during coring.																	
VOLCANIC SANDSTONE																	

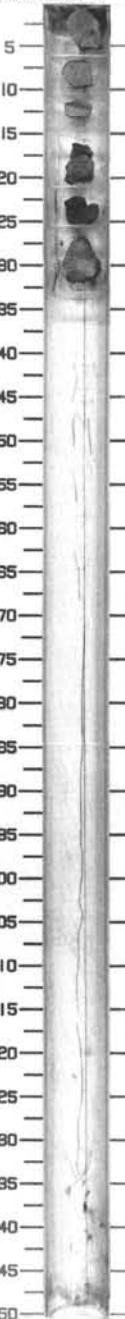
827B-18R CC



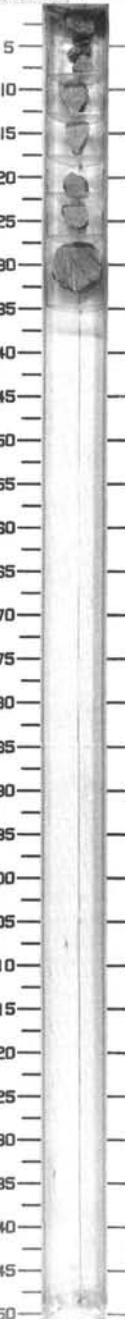
827B-19R CC



827B-20R 1

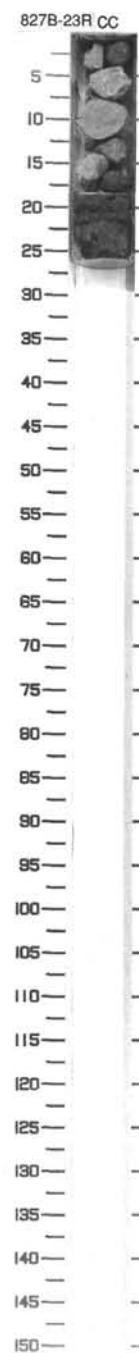
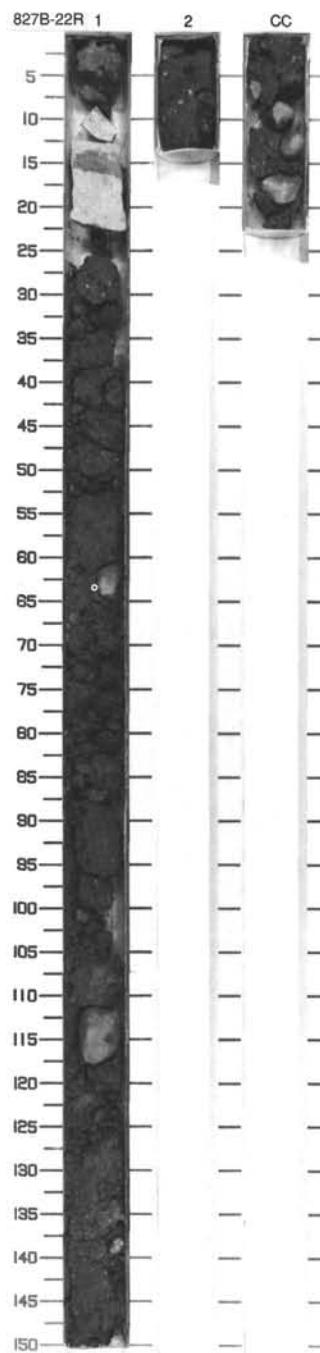


827B-21R 1



SITE 827 HOLE B CORE 22R CORED INTERVAL 310.6-320.3 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/FOSSIL CHARACTER					PALEOMAGNETICS					LITHOLOGIC DESCRIPTION				
	FORAMINIFERS	NANOFOSILS	RADIOLARIANS	DIATOMS		PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	#	
?	B	B				2.17 ● 39.3		1			X X X	X X X			SED-LITHIC BRECCIA
															Major lithology: The core is a very poorly sorted, poorly indurated, black (SY 2.5/1) SED-LITHIC BRECCIA. It has been highly disturbed by drilling. Clasts consist of very lithified grains of volcanic/igneous origin and range in size from granules (2 mm) to small cobbles (7 cm). The matrix is undifferentiated sand/silt/clay. The top of Section 1 (0-26 cm) is occupied by distinct pieces of rock (drilling breccia), which include a 10 cm core of undetermined lithology (Section 1, Piece 5. 12-13 cm) and a pebble of sed-lithic breccia (Section 1, Piece 4. 10-12 cm).
															THIN SECTION SUMMARY (%): 1, 14 M
															TEXTURE: Sand 90 Silt 10
															COMPOSITION: Algae 25 Calcite 41 Feldspar 4 Foraminifers 20 Quartz 3 Rock fragment 7



SITE 827 HOLE B CORE 24R CORED INTERVAL 329.5-339.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER						LITHOLOGIC DESCRIPTION	
	FORAMINIFERS	NANNOFOSILS	RADIOLARIANS	DIATOMS	PALAEOMAGNETICS	PHYS. PROPERTIES		
SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. - STRUCTURES	SAMPLES			
CC								
SILTY VOLCANIC SANDSTONE								
Major lithology: The core consists of very dark gray (5Y 4/1), lithified, coarse-grained, SILTY VOLCANIC SANDSTONE containing veins of quartz or calcite. The small amount of recovered material occurs as subrounded pebbles that may result from drilling. One clast is a packstone containing early Miocene microfossils (<i>Miogypsina</i> sp.).								

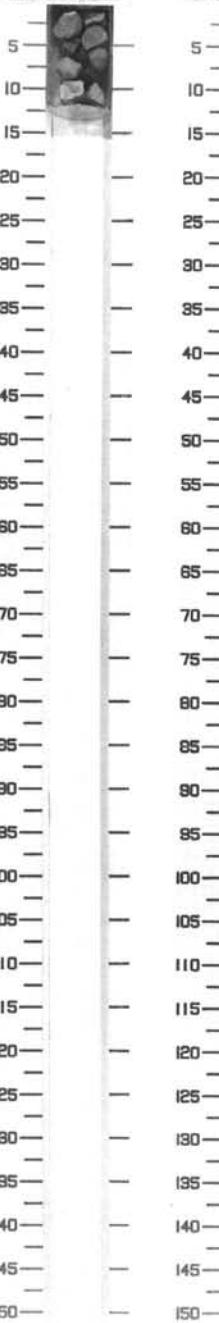
SITE 827 HOLE B CORE 25R CORED INTERVAL 339.0-345.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER						LITHOLOGIC DESCRIPTION	
	FORAMINIFERS	NANNOFOSILS	RADIOLARIANS	DIATOMS	PALAEOMAGNETICS	PHYS. PROPERTIES		
SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. - STRUCTURES	SAMPLES			
?	B	B						
VOLCANIC SANDSTONE								
Major lithology: The core comprises dark greenish gray (10Y 4/1), lithified, coarse-grained, VOLCANIC SANDSTONE. The small amount of material recovered occurs as clasts that may result from drilling. One clast contains an early Miocene foraminifer (<i>Lepidocyrtina</i> sp.).								
Minor lithology: Clasts of the major lithology are supported in unlithified silt that may be the product of drilling.								

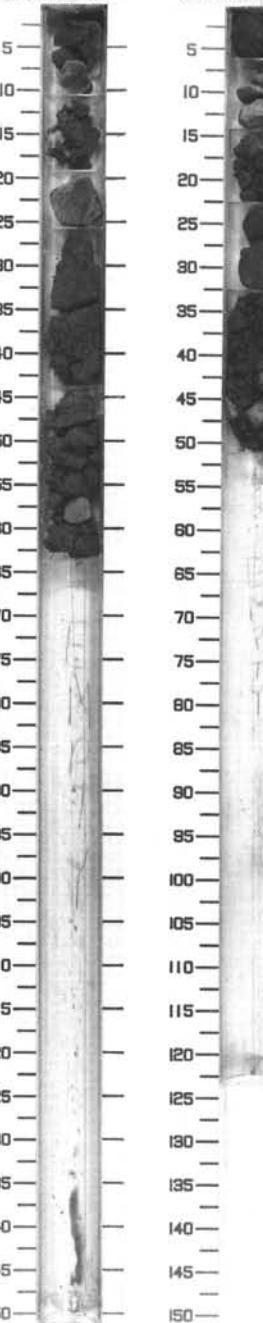
SITE 827 HOLE B CORE 26R CORED INTERVAL 345.7-355.3 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER						LITHOLOGIC DESCRIPTION	
	FORAMINIFERS	NANNOFOSILS	RADIOLARIANS	DIATOMS	PALAEOMAGNETICS	PHYS. PROPERTIES		
SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. - STRUCTURES	SAMPLES			
?	B	B						
VOLCANIC SANDSTONE								
Major lithology: The core contains dark greenish gray (10Y 3/1), lithified, VOLCANIC SANDSTONE. The small amount of material recovered occurs as clasts up to a few cm in diameter. These clasts may result from drilling.								
Minor lithology: Unlithified sed-lithic breccia and sand are similar to the major lithology except that drilling reduced this material to a finer grain size.								

827B-24R CC



827B-25R 1



827B-26R 1



SITE 827 HOLE B CORE 27R CORED INTERVAL 355.3-365.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	LITHOLOGIC DESCRIPTION	
								DRILLING DISTURB.	SED. STRUCTURES
?	B	B	B	23.7 ● 2.46	1	0.5	#		
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS						
	NANNOFOSSILS	RADIOLARIANS	DIACTAMS						

Major lithology: This core contains dark gray (10Y 3/1), lithified, VOLCANIC SANDSTONE. Many fractures are filled by veins of quartz or calcite as well as one vein that may contain sulfur. The small amount of material recovered occurs as breccia and slightly rounded clasts the texture of which we suspect to be entirely the product of drilling.

THIN SECTION SUMMARY (%):

1. 9	M
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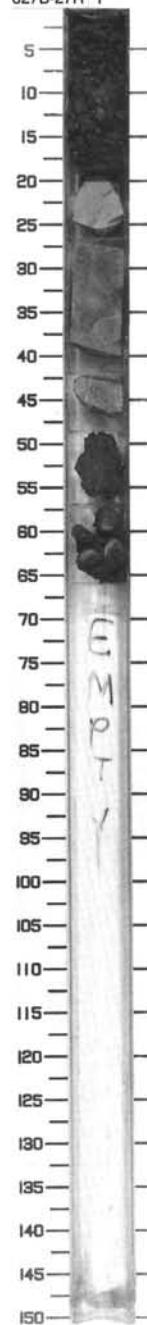
TEXTURE:

Sand	55
Silt	30
Clay	15

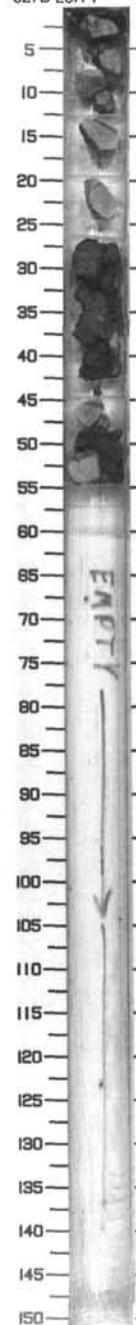
COMPOSITION:

Calcite	8
Chlorite	5
Clay	5
Clinopyroxene	13
Feldspar	58
Hematite	Tr
Hornblende	Tr
Opaques	9

827B-27R 1



827B-28R 1



SITE 827 HOLE B CORE 28R CORED INTERVAL 365.0-374.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	LITHOLOGIC DESCRIPTION	
								DRILLING DISTURB.	SED. STRUCTURES
?	B	Vp 1985 ●	Vp	1, 12 D	1	0.5	#		
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS						
	NANNOFOSSILS	RADIOLARIANS	DIACTAMS						

Major lithology: Very dark gray (5Y 3/1), lithified, fine-grained, VOLCANIC SANDSTONE. Some pieces have fractures filled with calcite or quartz. This material occurs as surrounded clasts loose in the core barrel. Core recovery was extremely poor.

THIN SECTION SUMMARY (%):

1, 12	M
D	45

TEXTURE:

Sand	60	45
Silt	20	35
Clay	20	20

COMPOSITION:

Calcite	20	28
Chlorite	---	8
Clay	15	8
Clinopyroxene	15	1
Feldspar	20	50
Hornblende	3	---
Opaques	10	5
Other	7	---
Quartz	10	---

SITE 827 HOLE B CORE 29R CORED INTERVAL 374.5-384.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/FOSSIL CHARACTER					PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION						
	FORAMINIFERS	NANNOFOSILS	RADIOLARIANS	DIATOMS	?								VOLCANIC SANDSTONE	Major lithology: The core contains pieces of very dark gray (5Y 3/1), lithified, fine-grained VOLCANIC SANDSTONE. Some pieces have fractures filled with calcite or quartz. This material occurs as surrounded clasts loose in the core barrel. Core recovery was extremely poor.	Drilling disturb.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION	
	B	B	B	B	?	∅	17.1 ● 2.57												

Major lithology: The core contains pieces of very dark gray (5Y 3/1), lithified, fine-grained VOLCANIC SANDSTONE. Some pieces have fractures filled with calcite or quartz. This material occurs as surrounded clasts loose in the core barrel. Core recovery was extremely poor.

Minor lithology: A very dark gray (5Y 3/1), unlithified volcanic silt comprises the matrix of Section 1, Piece D, 18-28 cm, which contains clasts of the major lithology. The silt may be a product of drilling.

SITE 827 HOLE B CORE 30R CORED INTERVAL 384.2-393.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/FOSSIL CHARACTER					PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION					
	FORAMINIFERS	NANNOFOSILS	RADIOLARIANS	DIATOMS	?								VOLCANIC SILTSTONE	Major lithology: The core contains very dark greenish gray (10Y 3/1), partially lithified VOLCANIC SILTSTONE. This sediment occurs from 60 to 133 cm in Section 1, and comprises the matrix for the breccia in the rest of the core. The silt is tectonically fractured and has many cross-cutting slickensided planes. The fabric is very scaly.	Drilling disturb.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	B	B	B	B	?	∅	1990 46.5 ● 1990 2.09						*					

Major lithology: The core contains very dark greenish gray (10Y 3/1), partially lithified VOLCANIC SILTSTONE. This sediment occurs from 60 to 133 cm in Section 1, and comprises the matrix for the breccia in the rest of the core. The silt is tectonically fractured and has many cross-cutting slickensided planes. The fabric is very scaly.

Minor lithology: Very dark gray (10Y 3/1), partially lithified, matrix-supported sed-lithic breccia occurs in a matrix of the major lithology from 0 to 60 cm in Section 1, and all of Section 2, and the core catcher. One piece of the breccia is a coral fragment, but most is light gray volcanic sandstone clasts that range in diameter from a few mm to 6 cm.

SMEAR SLIDE SUMMARY (%):

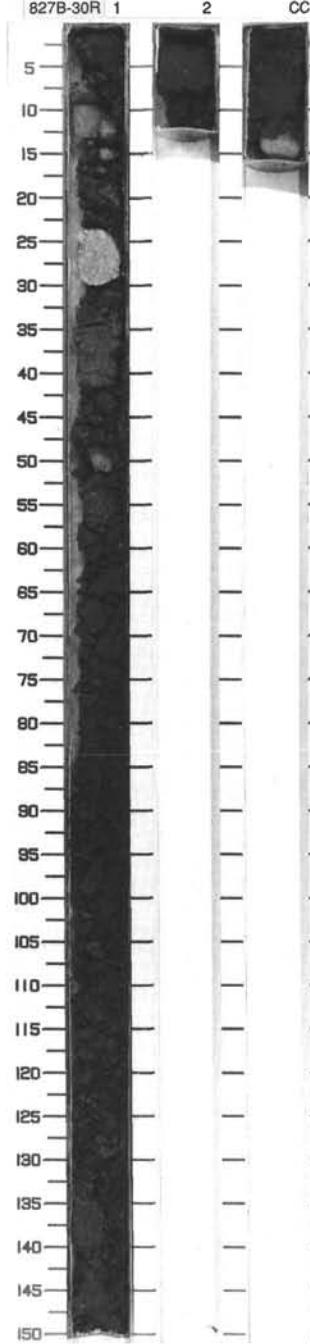
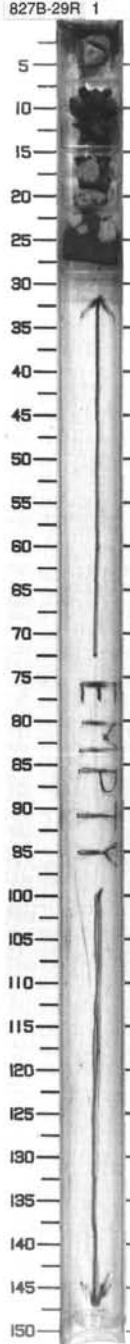
1.35	M
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TEXTURE:

Sand	10
Silt	70
Clay	20

COMPOSITION:

Calcite	43
Chlorite	5
Clay	15
Foraminifers	3
Nannofossils	5
Opaques	5
Oxide	15
Plagioclase	5
Quartz	4

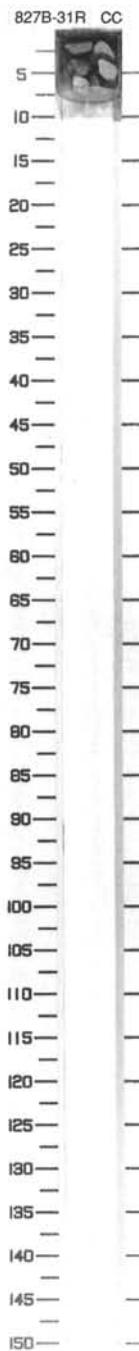


SITE 827 HOLE B CORE 31R CORED INTERVAL 393.9-400.4 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/FOSSIL CHARACTER				GRAPHIC LITHOLOGY	LITHOLOGIC DESCRIPTION				
	FORAMINIFERS	NANNOEOLITES	RADIOLARIANS	DIATOMS		SECTON	METERS	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
?	B				CC					

VOLCANIC SANDSTONE

Major lithology: The core consists of gray (10Y 5/1) lithified pieces of medium- to fine-grained VOLCANIC SANDSTONE. There is at least a small amount of carbonate in the material, probably as cement. Only 17 cm of this material was recovered as pieces with no matrix. We suspect that the drill penetrated a breccia whose matrix was only partially lithified and was ground up and washed away during drilling.



134-827B-16R-01 (Piece 2, 14-17 cm) OBSERVER: BAK WHERE SAMPLED:

ROCK NAME: Andesitic breccia.

GRAIN SIZE:

TEXTURE: Porphyritic.

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYST						
Plagioclase	30	35	0.4-0.5		Subhedral.	Strongly zoned.
Clinopyroxene	10	12	0.1-0.3		Subhedral.	
Amphibole	3	3	0.2-0.4		Subhedral.	
Opaque minerals	4	4	0.03-0.1		Subhedral.	
GROUNDMASS						
Plagioclase	10	12	0.01		Laths.	
Glass	-	34	N/A.		N/A.	
SECONDARY MINERALOGY						
	PERCENT	REPLACING/ FILLING				COMMENTS
Clay minerals	23					
Chlorite	20					
Calcite	8					As foraminifers.
VESICLES/CAVITIES						
Vesicles	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE	
	None.					

134-827B-16R-01 (Piece 3, 40-42 cm) OBSERVER: BAK WHERE SAMPLED:

ROCK NAME: Andesitic breccia.

GRAIN SIZE:

TEXTURE: Porphyritic.

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	30	40	0.1-0.8		Subhedral.	
Clinopyroxene	8	8	0.1-0.6		Subhedral.	
Opaque minerals	4	4	0.1-0.4		Subhedral.	
Orthopyroxene	1	1	0.2-0.4		Subhedral.	
GROUNDMASS						
Opaque minerals	5	5	0.01-0.03		Subhedral.	
Plagioclase	17	17	0.01-0.03		Laths.	
Glass	-	25	N/A.		N/A.	Partially devitrified.
SECONDARY MINERALOGY						
	PERCENT	REPLACING/ FILLING				COMMENTS
Clay minerals	30					
Chlorite		5				
Calcite		5				The section contains some foraminifers.
VESICLES/CAVITIES						
Vesicles	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE	
	None.					

SITE 827

134-827B-19R-CC (Piece 3, 14-18 cm) OBSERVER: BAK WHERE SAMPLED:

ROCK NAME: Andesitic breccia.

GRAIN SIZE:

TEXTURE: Porphyritic.

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	20	30	0.05-0.5		Subhedral.	Partly altered to clay.
Clinopyroxene	5	5	0.05-0.5		Subhedral.	
Opaque minerals	4	4	0.1-0.2		Subhedral.	
Amphibole	2	2	0.1-0.3		Subhedral.	
Orthopyroxene	2	2	0.1-0.3		Subhedral.	
GROUNDMASS						
Plagioclase	15	20	0.01		Laths.	
Clinopyroxene	<1	<1	0.01		Anhedral.	
Opaque minerals	1	1	0.01		Subhedral.	
Glass	-	35	N/A.		N/A.	Completely devitrified.
SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING			COMMENTS	
Clay minerals	24					
Chlorite	26					
VESICLES/CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE	
Vesicles	None.					

134-827B-22R-CC (Piece 3, 15-18 cm) OBSERVER: BAK WHERE SAMPLED:

ROCK NAME: Highly plagioclase phryic andesite.

GRAIN SIZE: Fine-grained.

TEXTURE: Porphyritic.

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	23	27	0.2-2.5		Euhedral.	Altered along cracks to sericite.
Clinopyroxene	1	1	1-2		Subhedral.	
Opaque minerals	2	2	0.2-0.5	Magnetite?	Rounded.	
GROUNDMASS						
Plagioclase	15	22	0.03-0.1		Laths.	
Clinopyroxene	1	6	0.01-0.2		Granular.	
Opaque minerals	2	2	0.01-0.02	Magnetite?	Granular.	
Glass	-	40	N/A.		N/A.	Altered to clay and chlorite.
SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING			COMMENTS	
Clay minerals	24	Glass.				
Calcite	10	Cracks and cavities in groundmass.				
Chlorite	17	Glass.				
Sericite	5	Plagioclase.				
VESICLES/CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE	
Vesicles	None.					

134-827B-23R-CC (Piece 1, 5-6 cm) OBSERVER: BAK WHERE SAMPLED:

ROCK NAME: Andesitic breccia.

GRAIN SIZE:

TEXTURE: Porphyritic.

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	28	41	0.1-0.4		Subhedral.	
Clinopyroxene	3	3	0.1-0.2		Subhedral.	
Quartz	1	1	0.05-0.1		Anhedral.	
Orthopyroxene	3	3	0.1-0.2		Subhedral.	
Opaque minerals	4	4	0.05-0.15		Subhedral.	
GROUNDMASS						
Plagioclase	27	27	0.03		Laths.	
Glass	-	21	N/A.		N/A.	
SECONDARY MINERALOGY						
	PERCENT	REPLACING/ FILLING				COMMENTS
Clay minerals	19					
Chlorite	15					
VESICLES/ CAVITIES						
Vesicles	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE	
		None.				