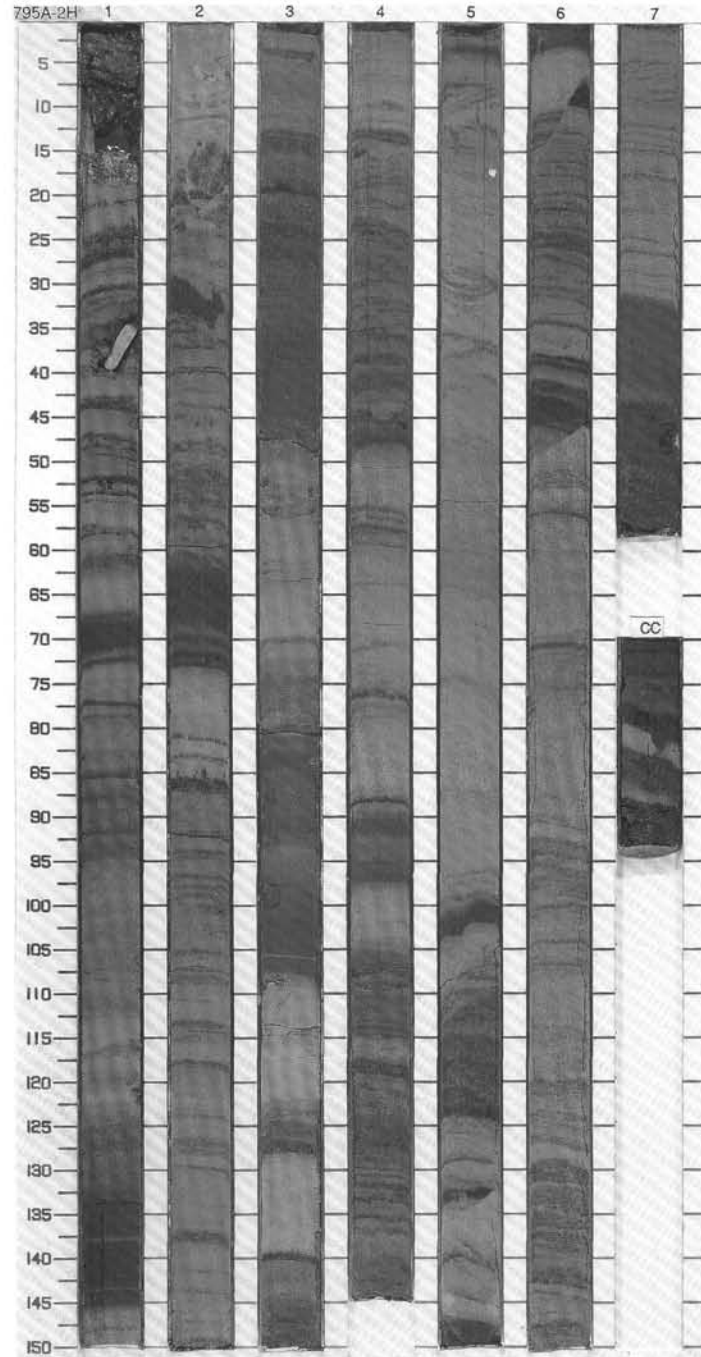
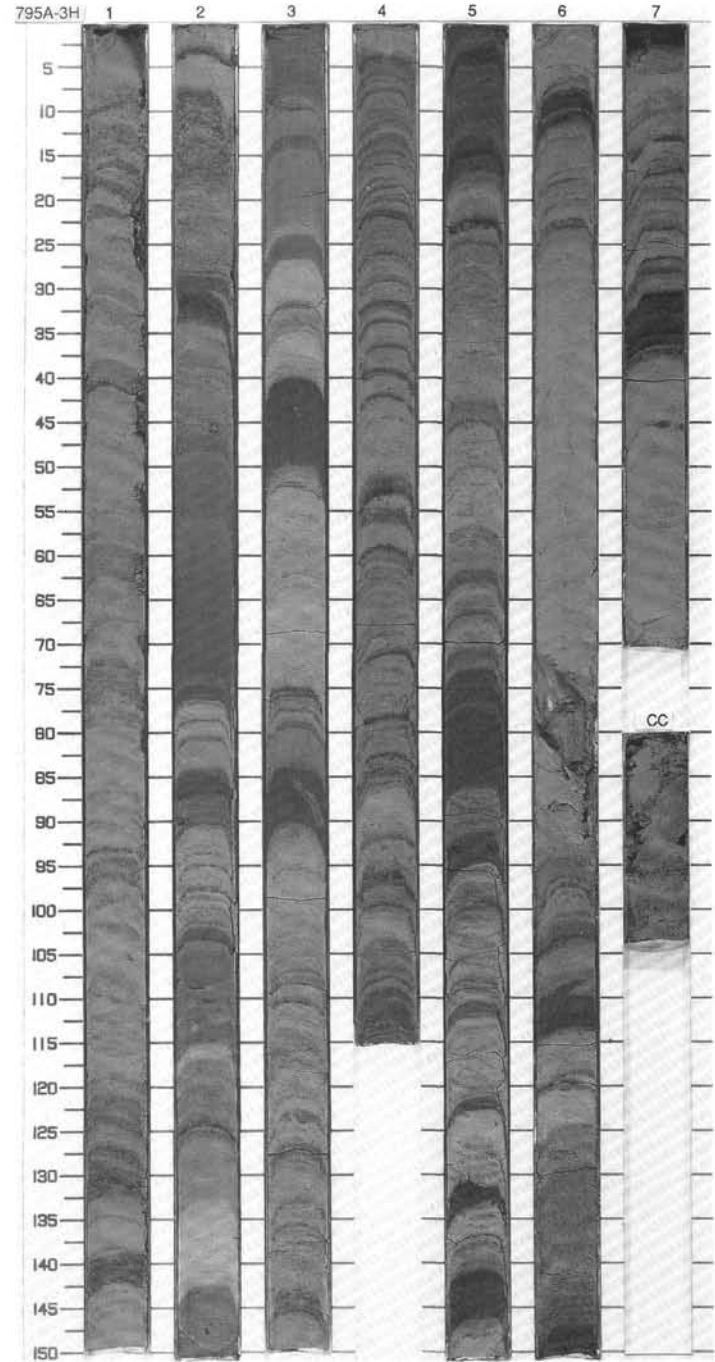
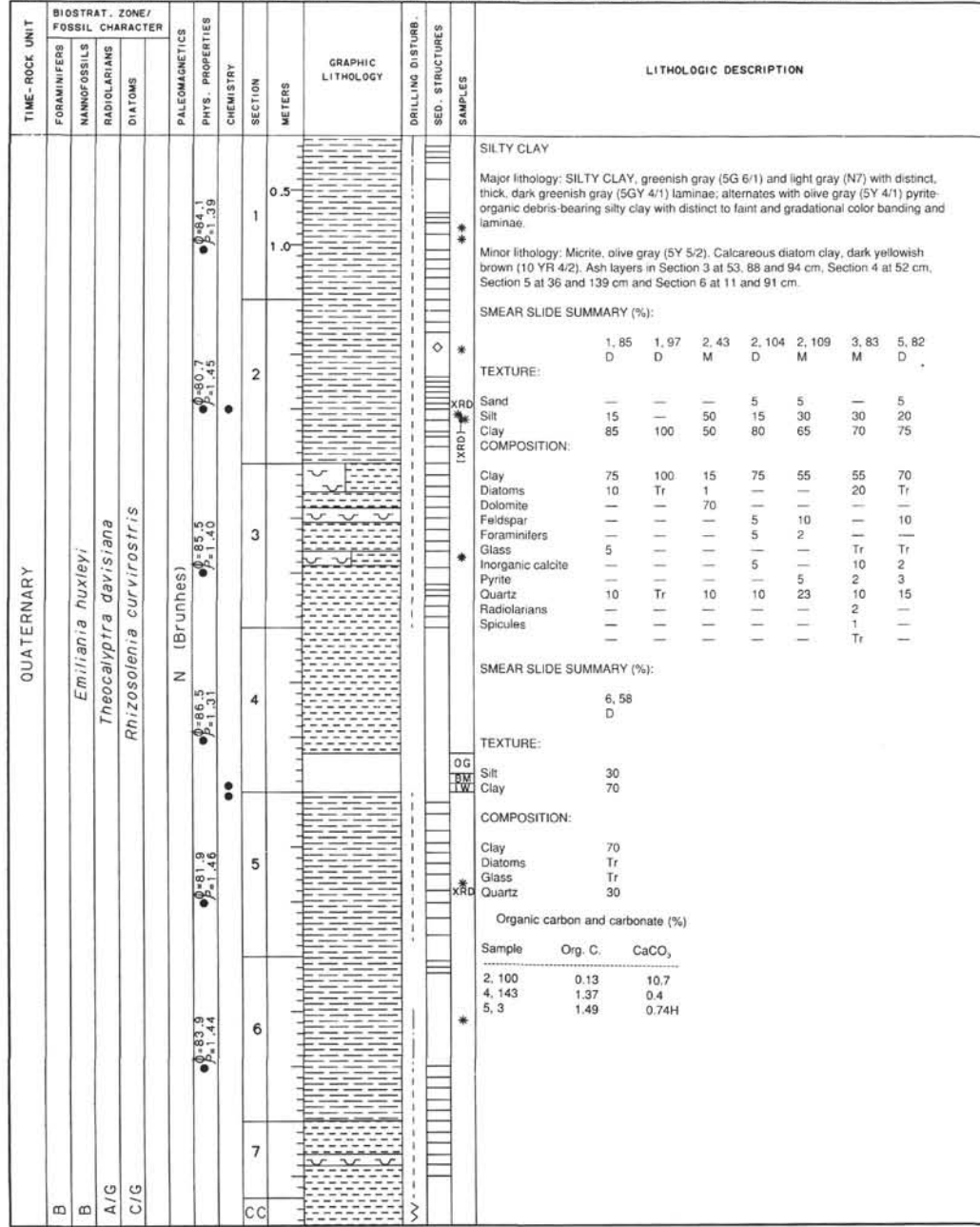


SITE 795 HOLE A CORE 2H CORED INTERVAL 3309.5-3319.0 mbsl; 9.3-18.8 mbsf

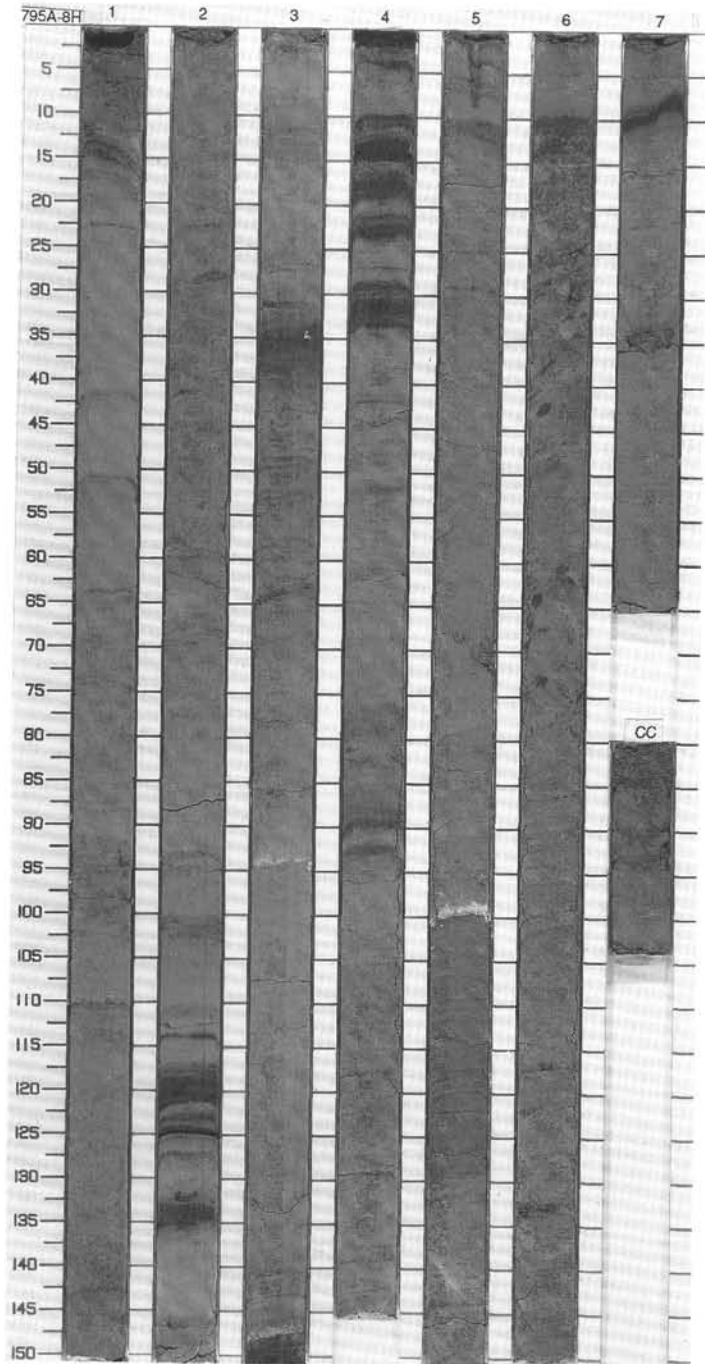
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																
	FORAMINIFERS	MANNOFOSSILS	RADIOLARIANS											DIATOMS															
QUATERNARY																													
B								0.5					SILTY CLAY AND ASHY SILTY CLAY																
B								1.0					Major lithology: SILTY CLAY and ASHY SILTY CLAY, light gray (N6) light olive gray (5Y 6/1) with thick greenish gray (5G 6/1) clay-rich laminae; slight bioturbation; alternates with SILTY CLAY, olive gray (5Y 4/1), pyrite and organic debris-bearing and laminated.																
F/M	<i>Emiliana huxleyi</i>							2.0					Minor lithology: Diatom ooze, olive gray (5Y 4/1), vitric ash, light gray (N7) with minor grading in Section 3 at 46, 79, 98 and 123 cm and Section 7 at 45 cm. Quartz silt, medium gray (N4).																
A/M	<i>Thecalypra davisi</i>							3.0					SMEAR SLIDE SUMMARY (%):																
	<i>Neodenticula seminiae</i>							4.0					<table border="1"> <tr> <td></td> <td>1, 84</td> <td>1, 140</td> <td>2, 78</td> <td>2, 86</td> <td>2, 146</td> <td>3, 30</td> <td>3, 45</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> <td>M</td> <td>D</td> <td>D</td> <td>M</td> </tr> </table>		1, 84	1, 140	2, 78	2, 86	2, 146	3, 30	3, 45		D	D	D	M	D	D	M
	1, 84	1, 140	2, 78	2, 86	2, 146	3, 30	3, 45																						
	D	D	D	M	D	D	M																						
								5.0					TEXTURE:																
								6.0					Silt																
								7.0					Clay																
								8.0					COMPOSITION																
								9.0					Clay																
								10.0					Diatoms																
								11.0					Dolomite																
								12.0					Feldspar																
								13.0					Foraminifers																
								14.0					Glass																
								15.0					Hornblende																
								16.0					Inorganic calcite																
								17.0					Organic matter																
								18.0					Plant																
								19.0					Pyrite																
								20.0					Quartz																
								21.0					Silicoflagellates																
								22.0					Spicules																
								23.0					SMEAR SLIDE SUMMARY (%):																
								24.0					<table border="1"> <tr> <td></td> <td>3, 102</td> <td>4, 128</td> <td>5, 81</td> <td>7, 35</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table>		3, 102	4, 128	5, 81	7, 35		D	D	D	D						
	3, 102	4, 128	5, 81	7, 35																									
	D	D	D	D																									
								25.0					TEXTURE:																
								26.0					Sand																
								27.0					Silt																
								28.0					Clay																
								29.0					COMPOSITION																
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								31.0					Diatoms																
								32.0					Feldspar																
								33.0					Foraminifers																
								34.0					Glass																
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								36.0					Pyrite																
								37.0					Quartz																
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								39.0					Silicoflagellates																
								40.0					Spicules																
								41.0					Organic carbon and carbonate (%)																
								42.0					<table border="1"> <tr> <th>Sample</th> <th>Org. C</th> <th>CaCO₃</th> </tr> <tr> <td>3, 26</td> <td>1.61</td> <td>0.5</td> </tr> <tr> <td>3, 104</td> <td>2.53</td> <td>1.0</td> </tr> <tr> <td>5, 3</td> <td>1.13</td> <td>0.7</td> </tr> <tr> <td>7, 37</td> <td>0.62</td> <td>1.2</td> </tr> </table>	Sample	Org. C	CaCO ₃	3, 26	1.61	0.5	3, 104	2.53	1.0	5, 3	1.13	0.7	7, 37	0.62	1.2	
Sample	Org. C	CaCO ₃																											
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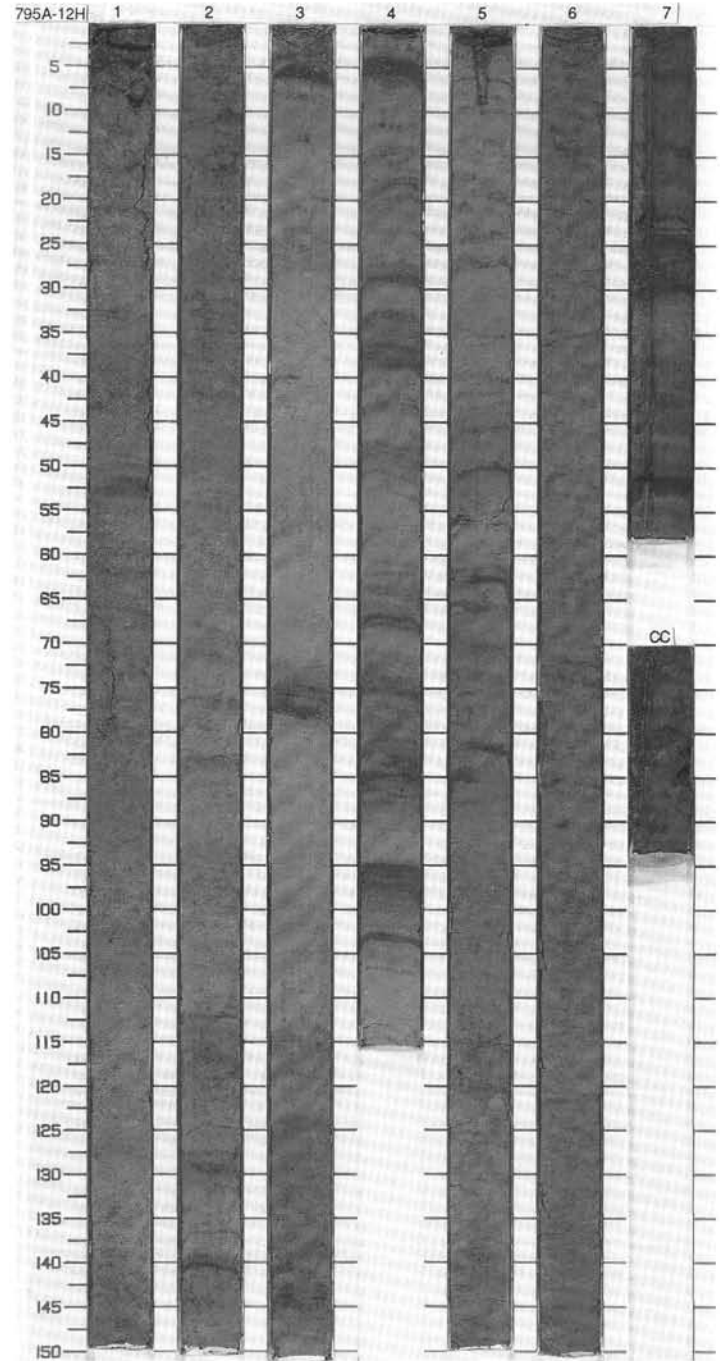
SITE 795 HOLE A CORE 8H CORED INTERVAL 3366.5-3376.0 mbsl; 66.3-75.8 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
QUATERNARY													
B													
F/M	<i>Theocalyptra davisiama</i>												
F/P													
	R (Matuyama)												
					● 0-84.0 ● 2-1.42	● 0-77.4 ● 2-1.34			0.5 1.0				
					● 0-84.0 ● 2-1.42	● 0-77.4 ● 2-1.34			2				
					● 0-84.0 ● 2-1.42	● 0-77.4 ● 2-1.34			3				
					● 0-84.0 ● 2-1.42	● 0-77.4 ● 2-1.34			4				
					● 0-84.0 ● 2-1.42	● 0-77.4 ● 2-1.34			5				
					● 0-84.0 ● 2-1.42	● 0-77.4 ● 2-1.34			6				
					● 0-84.0 ● 2-1.42	● 0-77.4 ● 2-1.34			7				
CC													



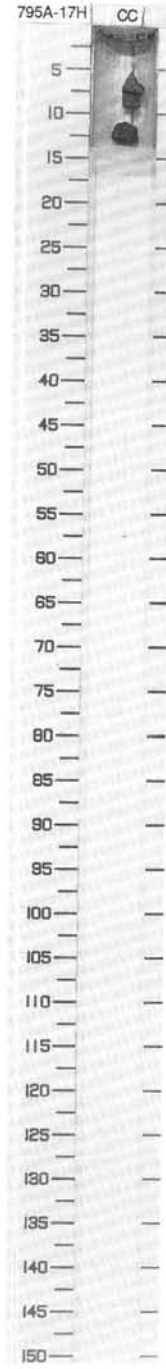
SITE 795 HOLE A CORE 12H CORED INTERVAL 3404.5-3414.0 mbsl; 104.3-113.8 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																													
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																																																					
UPPER PLIOCENE	F/P	B	C/M	A/G	Indeterminate		0.5 1.0					<p>DIATOM-BEARING SILTY CLAY</p> <p>Major lithology: DIATOM-BEARING SILTY CLAY, greenish gray (5G 6.1, 5G 5.1, 5GY 6.1), light olive gray (5Y 6.1) and dark greenish gray (5G 4.1). Moderately to heavily bioturbated mottled. Some zones moderately to faintly laminated (color banding).</p> <p>Minor lithology: Scattered dolomite pebbles at top of core. Ash beds in Section 2 at 16 cm, medium dark gray (N4). Section 3 at 78 cm, medium dark gray (N4). Section 5 at 82 and 85 cm, dark gray (N3). Carbonate-rich bed, Section 7 at 27.29 cm, moderate yellow brown (10YR 5/4). Section 2 at 21.23 cm, moderate yellow brown (10YR 6/4). Scattered, finely crystalline pyrite, especially in ash beds.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>2.88</td> <td>4.98</td> <td>6.66</td> <td>7.28</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Silt</td> <td>15</td> <td>15</td> <td>5</td> <td>80</td> </tr> <tr> <td>Clay</td> <td>85</td> <td>85</td> <td>95</td> <td>20</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>Tr</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>90</td> <td>85</td> <td>75</td> <td>30</td> </tr> <tr> <td>Diatoms</td> <td>5</td> <td>10</td> <td>20</td> <td>—</td> </tr> <tr> <td>Glass</td> <td>4</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Micrite</td> <td>—</td> <td>—</td> <td>—</td> <td>70</td> </tr> <tr> <td>Organic matter</td> <td>—</td> <td>Tr</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Pyrite</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Silicoflagellates</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Spores</td> <td>—</td> <td>Tr</td> <td>Tr</td> <td>—</td> </tr> </table> <p>Organic carbon and carbonate (%)</p> <table border="1"> <thead> <tr> <th>Sample</th> <th>Org. C.</th> <th>CaCO₃</th> </tr> </thead> <tbody> <tr> <td>2, 100</td> <td>0.89</td> <td>0.2</td> </tr> <tr> <td>4, 147</td> <td>0.82</td> <td>0.8</td> </tr> <tr> <td>5, 3</td> <td>0.47</td> <td>0.3</td> </tr> </tbody> </table>		2.88	4.98	6.66	7.28	D	D	D	D	M	Silt	15	15	5	80	Clay	85	85	95	20	Accessory minerals	Tr	Tr	—	—	Clay	90	85	75	30	Diatoms	5	10	20	—	Glass	4	—	—	—	Micrite	—	—	—	70	Organic matter	—	Tr	Tr	—	Pyrite	—	—	Tr	—	Silicoflagellates	Tr	—	—	—	Spores	—	Tr	Tr	—	Sample	Org. C.	CaCO ₃	2, 100	0.89	0.2	4, 147	0.82	0.8	5, 3	0.47	0.3
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					0-1516 P-1.57		5																																																																																		
					0-83.9 P-1.57		6																																																																																		
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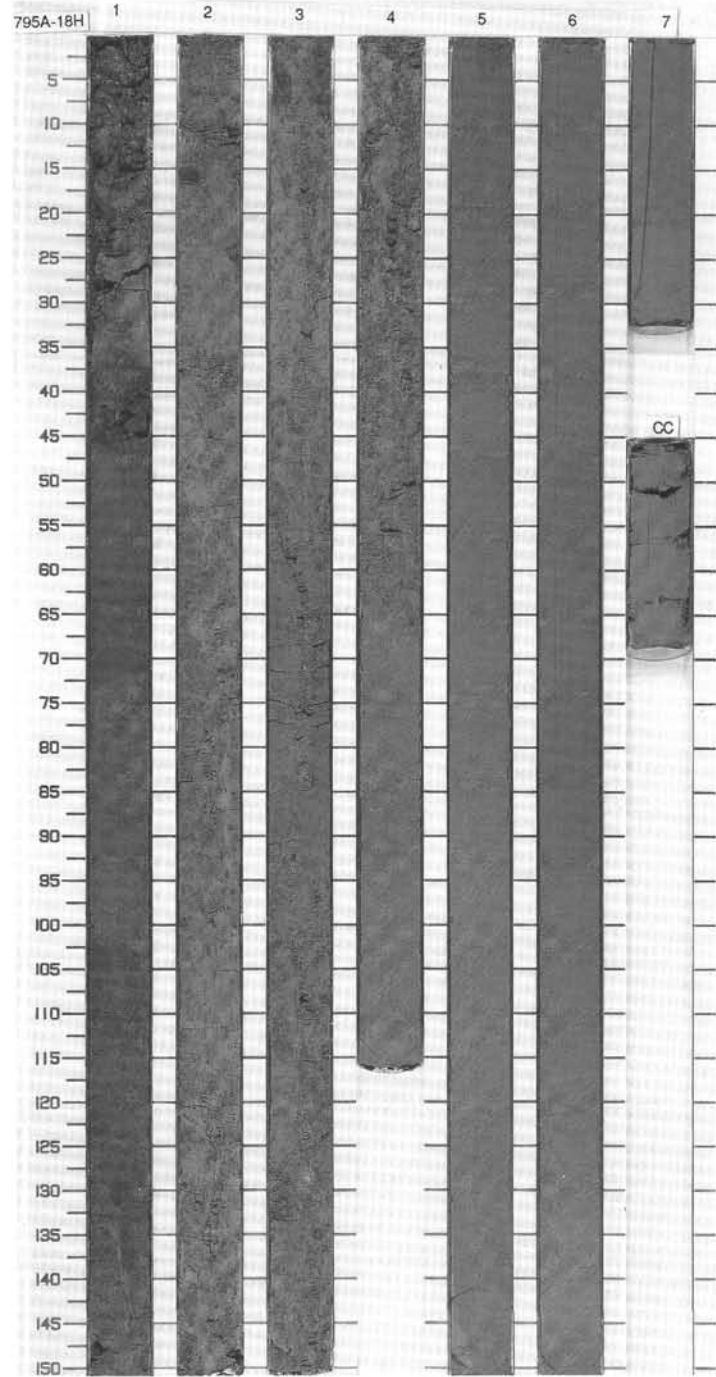
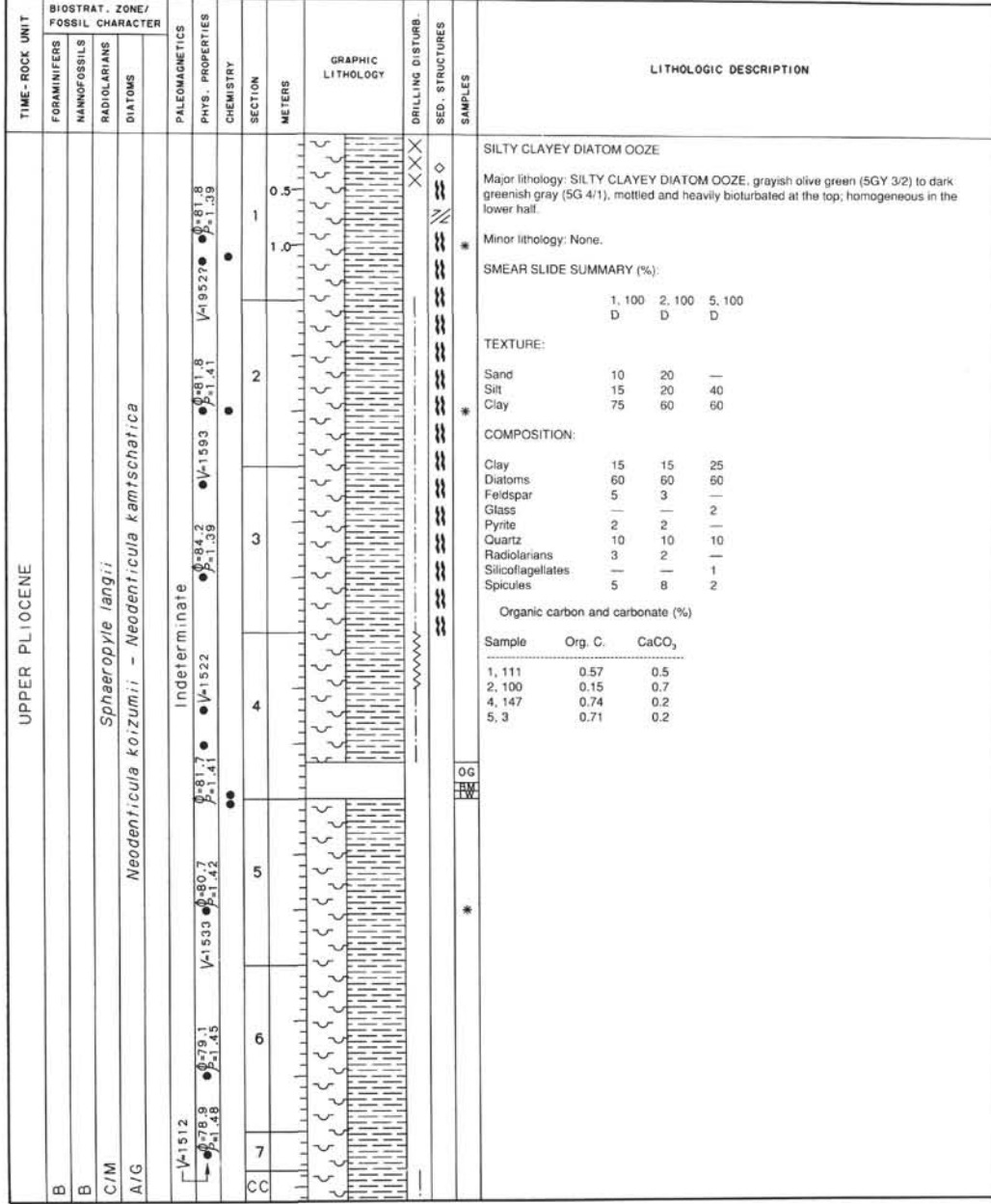


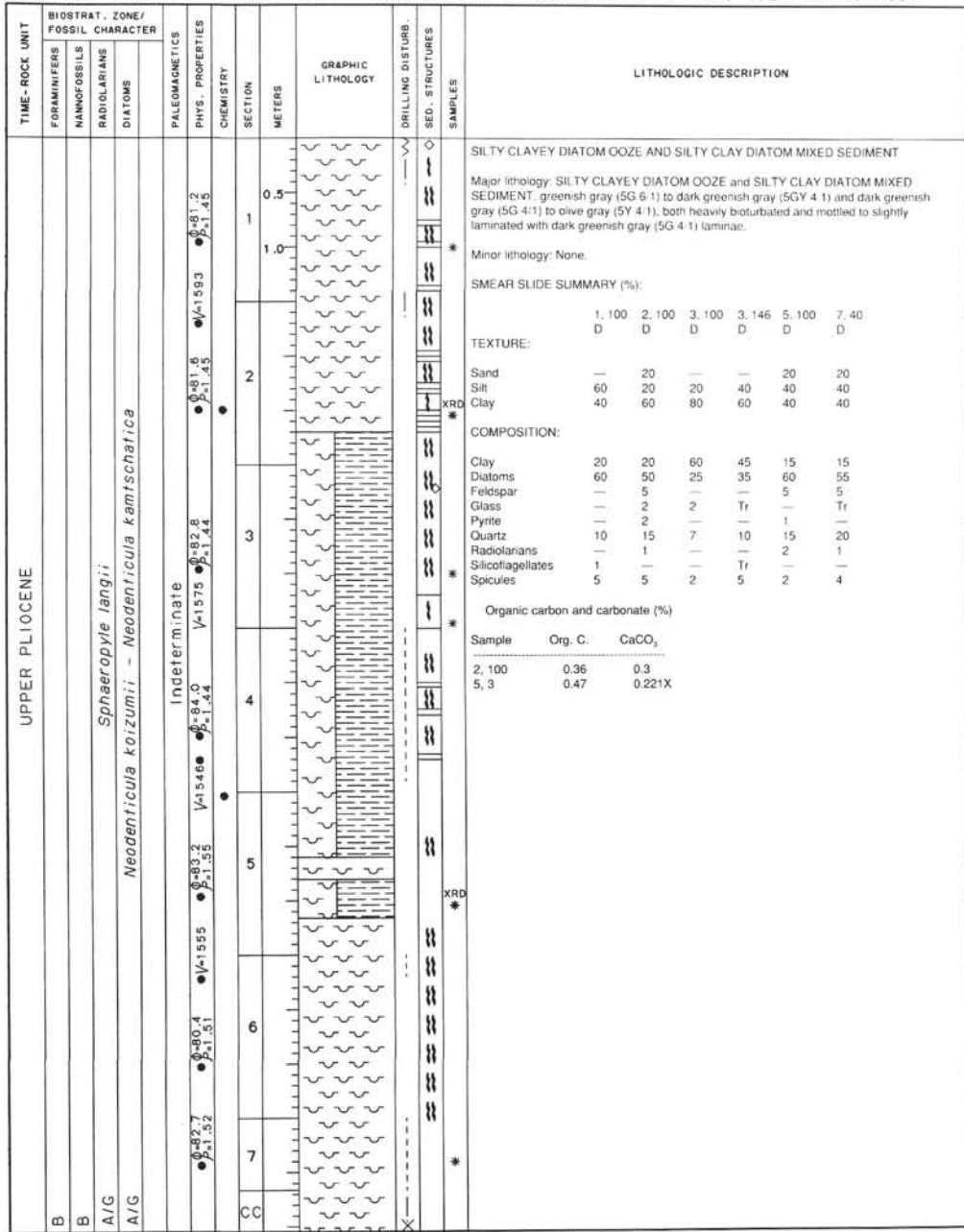
SITE 795 HOLE A CORE 17H CORED INTERVAL 3452.0-3452.1 mbsl; 151.8-151.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										
UPPER PLIOCENE							1			X			<p>MICRITIC LIMESTONE</p> <p>Major lithology: MICRITIC LIMESTONE, light olive gray (5Y 6/1), three pebbles.</p> <p>Minor lithology: None.</p>

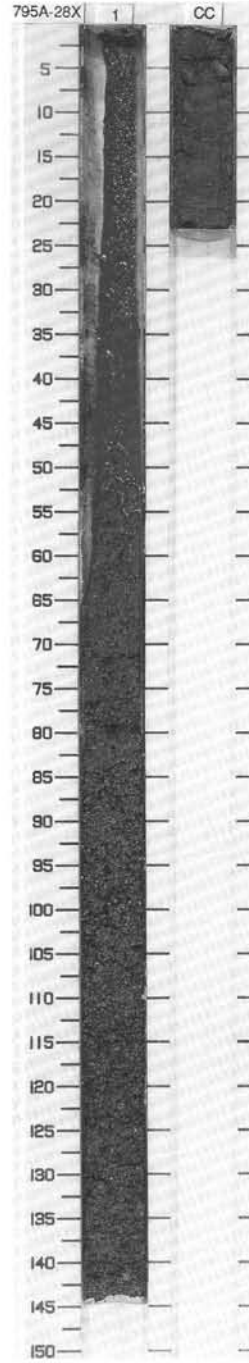


SITE 795 HOLE A CORE 18H CORED INTERVAL 3453.1-4924.2 mbsl; 152.9-162.4 mbsf

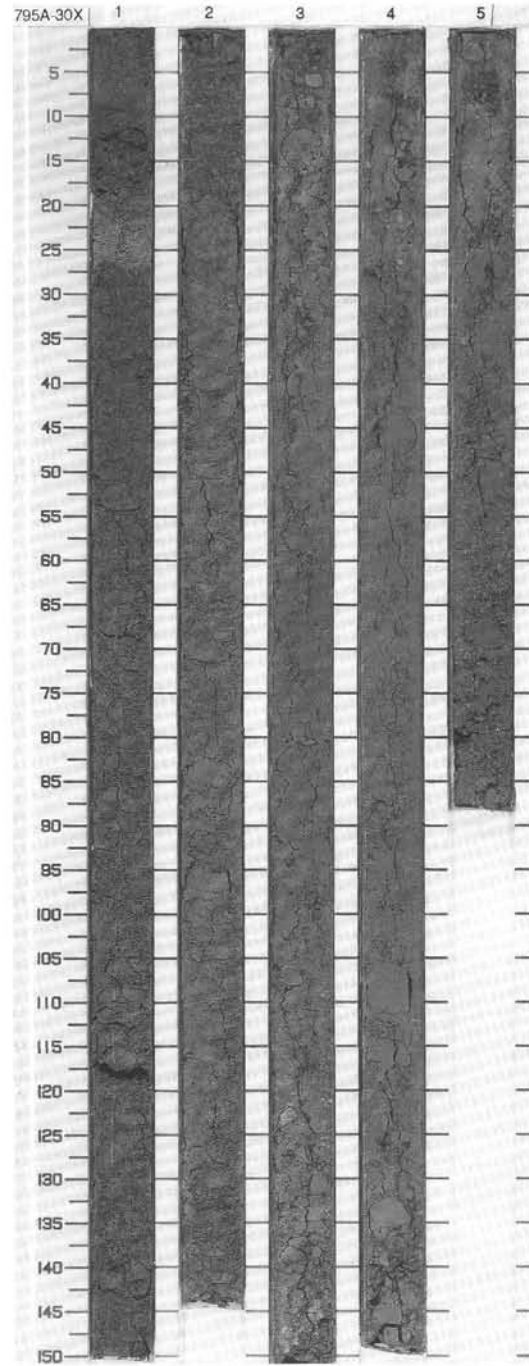




TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																						
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS																																
LOWER PLIOCENE								0.5 1.0					<p>SILTY DIATOM CLAYSTONE</p> <p>Major lithology: SILTY DIATOM CLAYSTONE, dark grayish green (10YR 4/2); drilling breccia: pebble, granule and sand size.</p> <p>Minor lithology: Dolomite nodules, moderate yellow brown (10YR 5/4) in Core Catcher at 0-5 cm and 13 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>CC, 20</td> </tr> <tr> <td></td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="0"> <tr> <td>Sand</td> <td>20</td> </tr> <tr> <td>Silt</td> <td>20</td> </tr> <tr> <td>Clay</td> <td>60</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Clay</td> <td>55</td> </tr> <tr> <td>Diatoms</td> <td>30</td> </tr> <tr> <td>Glass</td> <td>Tr</td> </tr> <tr> <td>Pyrite</td> <td>Tr</td> </tr> <tr> <td>Quartz</td> <td>10</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> </tr> </table>		CC, 20		D	Sand	20	Silt	20	Clay	60	Clay	55	Diatoms	30	Glass	Tr	Pyrite	Tr	Quartz	10	Radiolarians	Tr
	CC, 20																																		
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Radiolarians	Tr																																		
	R/M	F/P	C/M	C/M																															
			<i>Thecosphaera japonica</i>	<i>Thalassiosira oestrupii</i>																															
					Indeterminate																														



TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																									
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B					● 0-77.2 P-1.50			1	0.5 1.0					<p>SILTY DIATOM CLAYSTONE</p> <p>Major lithology: SILTY DIATOM CLAYSTONE, dark greenish gray (5G 4/1 to (5G 5/1), light greenish gray (5G 8/1); bioturbated and faintly laminated throughout; highly fractured by drilling.</p> <p>Minor lithology: Dolomite nodule, moderate yellow brown (10YR 5/4) in Section 1 at 8 cm. Clayey dolomite, dark greenish gray (5G 4/1). Basalt pebbles in Section 1 at 9 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 23</td> <td>3, 74</td> <td>5, 16</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>5</td> <td>15</td> <td>—</td> </tr> <tr> <td>Silt</td> <td>15</td> <td>15</td> <td>40</td> </tr> <tr> <td>Clay</td> <td>80</td> <td>70</td> <td>60</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>75</td> <td>60</td> <td>20</td> </tr> <tr> <td>Diatoms</td> <td>20</td> <td>35</td> <td>75</td> </tr> <tr> <td>Glass</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Pyrite</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Quartz</td> <td>5</td> <td>5</td> <td>—</td> </tr> <tr> <td>Silicoflagellates</td> <td>Tr</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Spores</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> </table> <p>Organic carbon and carbonate (%)</p> <table border="1"> <thead> <tr> <th>Sample</th> <th>Org. C.</th> <th>CaCO₃</th> </tr> </thead> <tbody> <tr> <td>2, 101</td> <td>0.52</td> <td>0.1</td> </tr> <tr> <td>3, 3</td> <td>0.38</td> <td>0.2</td> </tr> </tbody> </table>		1, 23	3, 74	5, 16	D	D	D	D	Sand	5	15	—	Silt	15	15	40	Clay	80	70	60	Clay	75	60	20	Diatoms	20	35	75	Glass	Tr	—	—	Pyrite	—	—	Tr	Quartz	5	5	—	Silicoflagellates	Tr	Tr	—	Spores	—	—	Tr	Sample	Org. C.	CaCO ₃	2, 101	0.52	0.1	3, 3	0.38	0.2
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C/M	<i>Thecosphaera japonica</i>				● 0-83.2 P-1.48			3																																																															
A/G	<i>Thalassiosira oestrupii</i>							4																																																															
					● 0-81.4 P-1.45			5																																																															

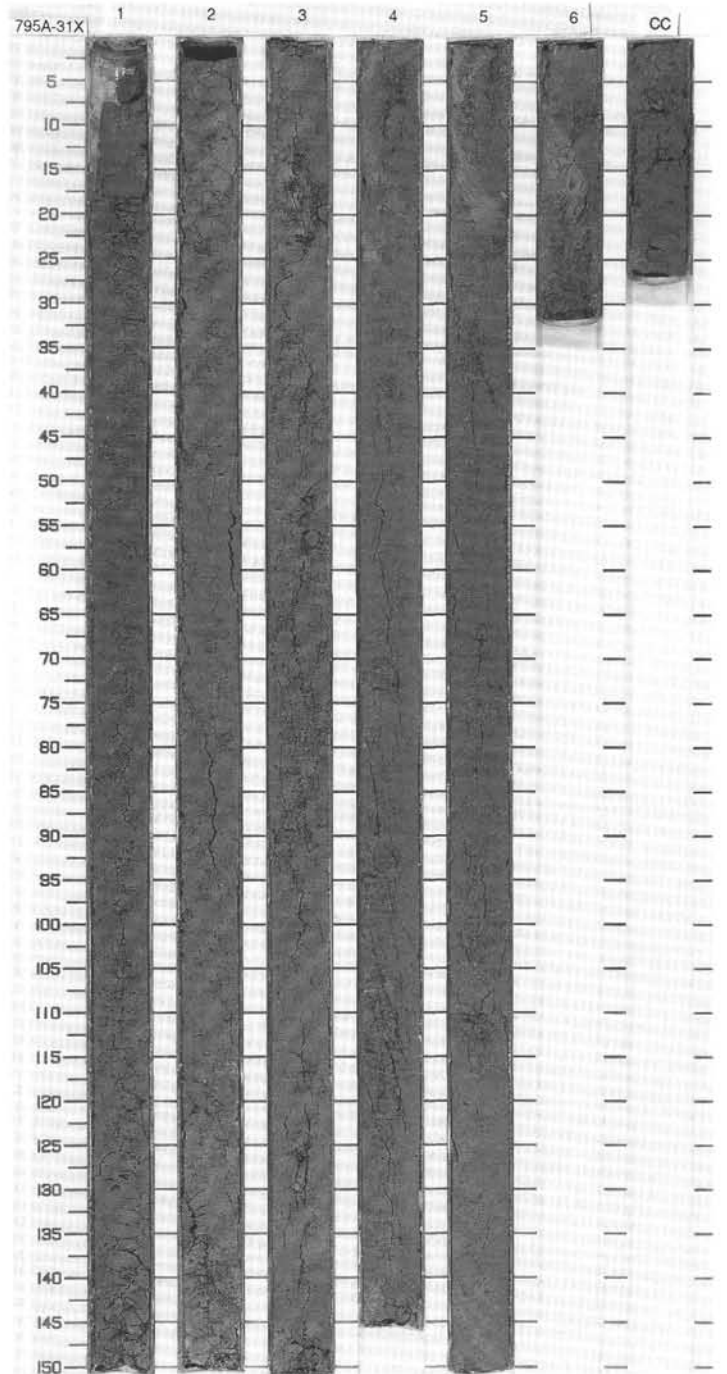


SITE 795 HOLE A CORE 31X CORED INTERVAL 3579.3-3589.0 mbsl; 279.1-288.8 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																	
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B							1					<p>DIATOM CLAYEY SILT MIXED SEDIMENT</p> <p>Major lithology: DIATOM CLAYEY SILT MIXED SEDIMENT, grayish olive green (5GY 3/2), mostly homogeneous with rare mottles; highly bioturbated(?).</p> <p>Minor lithology: None.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 75</td> <td>2, 130</td> <td>5, 100</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Silt</td> <td>50</td> <td>20</td> <td>50</td> </tr> <tr> <td>Clay</td> <td>50</td> <td>80</td> <td>50</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>40</td> <td>50</td> <td>50</td> </tr> <tr> <td>Diatoms</td> <td>45</td> <td>30</td> <td>45</td> </tr> <tr> <td>Nannofossils</td> <td>—</td> <td>1</td> <td>—</td> </tr> <tr> <td>Organic matter</td> <td>Tr</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Pyrite</td> <td>Tr</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Quartz</td> <td>10</td> <td>10</td> <td>5</td> </tr> <tr> <td>Radiolarians</td> <td>—</td> <td>1</td> <td>—</td> </tr> <tr> <td>Silicoflagellates</td> <td>—</td> <td>2</td> <td>—</td> </tr> <tr> <td>Spicules</td> <td>—</td> <td>3</td> <td>—</td> </tr> </table> <p>Organic carbon and carbonate (%)</p> <table border="1"> <thead> <tr> <th>Sample</th> <th>Org. C.</th> <th>CaCO₃</th> </tr> </thead> <tbody> <tr> <td>2, 100</td> <td>0.45</td> <td>0.1</td> </tr> <tr> <td>5, 3</td> <td>0.65</td> <td>0.2</td> </tr> </tbody> </table>		1, 75	2, 130	5, 100		D	D	D	Sand	—	—	—	Silt	50	20	50	Clay	50	80	50	Clay	40	50	50	Diatoms	45	30	45	Nannofossils	—	1	—	Organic matter	Tr	—	Tr	Pyrite	Tr	—	Tr	Quartz	10	10	5	Radiolarians	—	1	—	Silicoflagellates	—	2	—	Spicules	—	3	—	Sample	Org. C.	CaCO ₃	2, 100	0.45	0.1	5, 3	0.65	0.2
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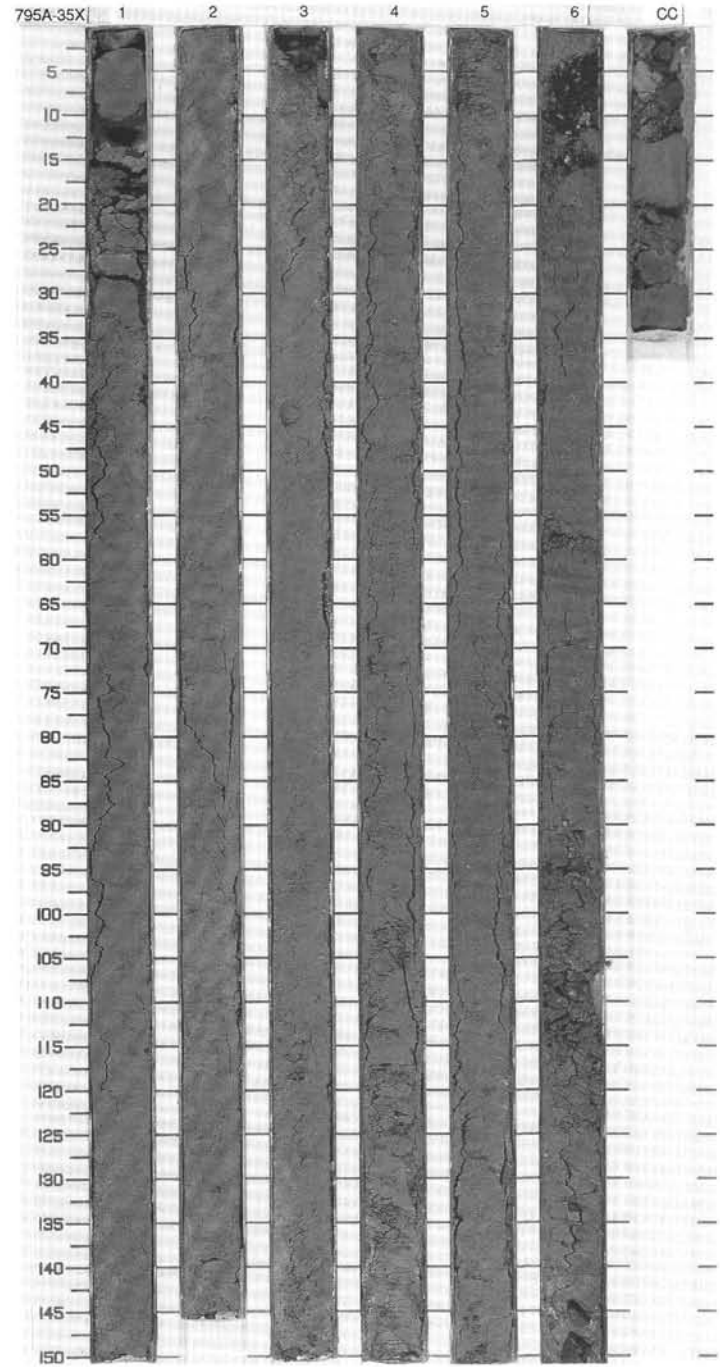
795A 32X NO RECOVERY

795A 33X NO RECOVERY

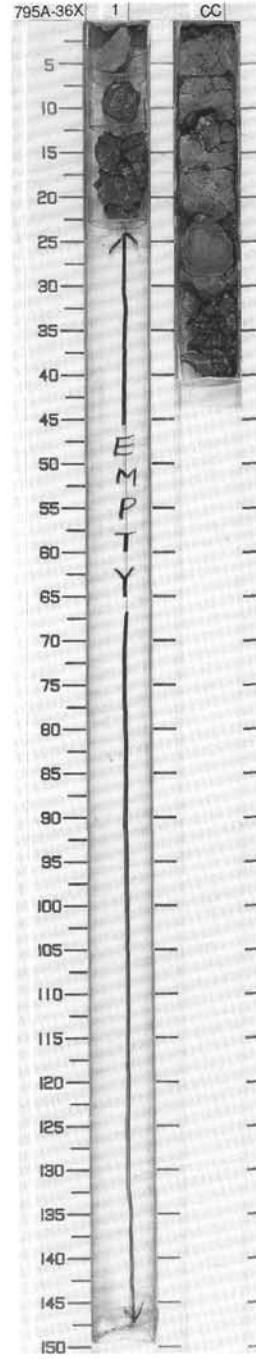


SITE 795 HOLE A CORE 35X CORED INTERVAL 3617.8-3627.4 mbsl; 317.6-327.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																																																																																								
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LOWER PLIOCENE	B												<p>DIATOM CLAYEY SILTSTONE AND SILICEOUS SILTY CLAYSTONE</p> <p>Major lithology: DIATOM CLAYEY SILTSTONE, grayish olive green (5GY 3/2), heavily bioturbated, fractured by drilling; change to SILICEOUS SILTY CLAYSTONE, grayish olive green (5GY 3/2) indicated by disappearance of diatoms at the top of Section 6.</p> <p>Minor lithology: Opal-CT chert, olive black (5Y 2/1), in Section 6.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>2, 97</td> <td>3, 50</td> <td>5, 50</td> <td>5, 100</td> <td>5, 149</td> <td>6, 45</td> <td>6, 100</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>—</td> <td>—</td> <td>15</td> <td>—</td> <td>10</td> <td>5</td> <td>—</td> </tr> <tr> <td>Silt</td> <td>40</td> <td>70</td> <td>25</td> <td>70</td> <td>40</td> <td>45</td> <td>25</td> </tr> <tr> <td>Clay</td> <td>60</td> <td>30</td> <td>60</td> <td>30</td> <td>50</td> <td>50</td> <td>75</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>40</td> <td>20</td> <td>15</td> <td>25</td> <td>30</td> <td>50</td> <td>75</td> </tr> <tr> <td>Diatoms</td> <td>30</td> <td>30</td> <td>40</td> <td>50</td> <td>30</td> <td>10</td> <td>Tr</td> </tr> <tr> <td>Feldspar</td> <td>—</td> <td>—</td> <td>5</td> <td>—</td> <td>5</td> <td>10</td> <td>—</td> </tr> <tr> <td>Glass</td> <td>5</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Organic matter</td> <td>—</td> <td>—</td> <td>Tr</td> <td>Tr</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Pyrite</td> <td>—</td> <td>—</td> <td>2</td> <td>Tr</td> <td>Tr</td> <td>3</td> <td>Tr</td> </tr> <tr> <td>Quartz</td> <td>20</td> <td>40</td> <td>15</td> <td>25</td> <td>20</td> <td>25</td> <td>25</td> </tr> <tr> <td>Radiolarians</td> <td>1</td> <td>1</td> <td>Tr</td> <td>—</td> <td>5</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Silicoflagellates</td> <td>2</td> <td>3</td> <td>3</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Spicules</td> <td>2</td> <td>5</td> <td>20</td> <td>Tr</td> <td>10</td> <td>2</td> <td>—</td> </tr> </table> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>6, 145</td> <td>CC, 16</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>—</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>25</td> <td>25</td> </tr> <tr> <td>Clay</td> <td>75</td> <td>70</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>70</td> <td>60</td> </tr> <tr> <td>Diatoms</td> <td>2</td> <td>2</td> </tr> <tr> <td>Feldspar</td> <td>5</td> <td>5</td> </tr> <tr> <td>Glass</td> <td>—</td> <td>4</td> </tr> <tr> <td>Pyrite</td> <td>3</td> <td>4</td> </tr> <tr> <td>Quartz</td> <td>20</td> <td>25</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Spicules</td> <td>—</td> <td>Tr</td> </tr> </table> <p>Organic carbon and carbonate (%)</p> <table border="1"> <thead> <tr> <th>Sample</th> <th>Org. C.</th> <th>CaCO₃</th> </tr> </thead> <tbody> <tr> <td>2, 101</td> <td>0.44</td> <td>0.1</td> </tr> <tr> <td>3, 3</td> <td>0.56</td> <td>0.1</td> </tr> </tbody> </table>		2, 97	3, 50	5, 50	5, 100	5, 149	6, 45	6, 100		D	D	D	D	D	D	M	Sand	—	—	15	—	10	5	—	Silt	40	70	25	70	40	45	25	Clay	60	30	60	30	50	50	75	Clay	40	20	15	25	30	50	75	Diatoms	30	30	40	50	30	10	Tr	Feldspar	—	—	5	—	5	10	—	Glass	5	—	Tr	—	—	—	Tr	Organic matter	—	—	Tr	Tr	—	—	Tr	Pyrite	—	—	2	Tr	Tr	3	Tr	Quartz	20	40	15	25	20	25	25	Radiolarians	1	1	Tr	—	5	Tr	—	Silicoflagellates	2	3	3	Tr	—	—	—	Spicules	2	5	20	Tr	10	2	—		6, 145	CC, 16		D	D	Sand	—	5	Silt	25	25	Clay	75	70	Clay	70	60	Diatoms	2	2	Feldspar	5	5	Glass	—	4	Pyrite	3	4	Quartz	20	25	Radiolarians	Tr	Tr	Spicules	—	Tr	Sample	Org. C.	CaCO ₃	2, 101	0.44	0.1	3, 3	0.56	0.1
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TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
LOWER PLIOCENE / UPPER MIOCENE ?	B	B	F/M	R/P	Indeterminate			1		▲▲▲▲▲	×	×	XRD	OPAL-CT CHERT AND SILICEOUS SILTY CLAYSTONE Major lithology: OPAL-CT CHERT, olive black (5Y 2/1) and SILICEOUS SILTY CLAYSTONE, grayish olive green (5GY 3/2); bioturbated, drilling breccia. Minor lithology: None.
			<i>Thecosphaera japonica</i>					CC		▲▲▲▲▲	×	×		

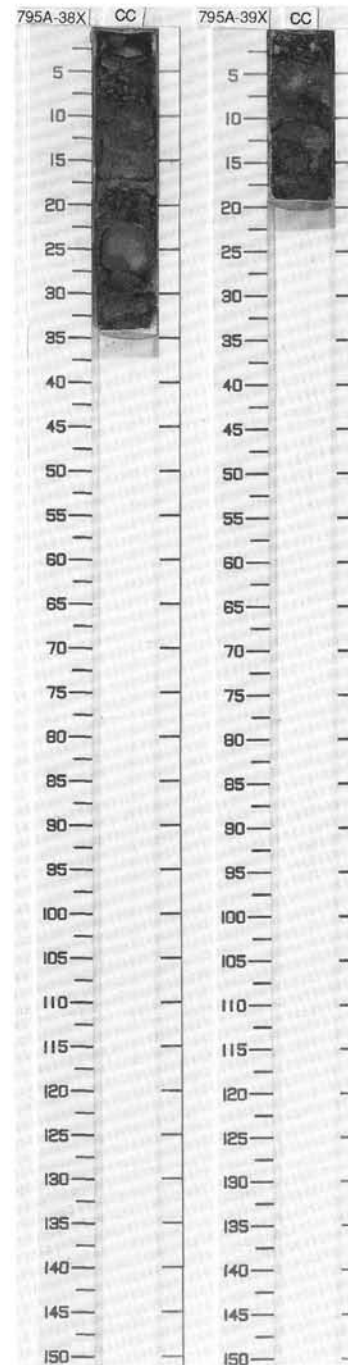


SITE 795 HOLE A CORE 38X CORED INTERVAL 3646.8-3656.4 mbsl; 346.6-356.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
UPPER MIOCENE ?	B	B	R/P	B						CC	X	*	<p>SILICEOUS SILTY CLAYSTONE</p> <p>Major lithology: SILICEOUS SILTY CLAYSTONE, dark greenish gray (5G 4/1); bioturbated and indistinctly mottled; most of core drilling breccia.</p> <p>Minor lithology: None.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="text-align: right;">CC, 24 D</p> <p>TEXTURE:</p> <p>Sand 1 Silt 15 Clay 84</p> <p>COMPOSITION:</p> <p>Accessory minerals Tr Clay 90 Glass Tr Quartz 8</p>
			<i>Thecosphaera japonica</i>										
					Indeterminate								

SITE 795 HOLE A CORE 39X CORED INTERVAL 3656.4-3666.1 mbsl; 356.2-365.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
UPPER MIOCENE ?	B	B	C/M	B						CC	X	*	<p>SILICEOUS SILTY CLAYSTONE</p> <p>Major lithology: SILICEOUS SILTY CLAYSTONE, dark greenish gray (5G 4/1); bioturbated, mottled; drilling breccia.</p> <p>Minor lithology: None.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="text-align: right;">CC, 12 D</p> <p>TEXTURE:</p> <p>Silt 15 Clay 85</p> <p>COMPOSITION:</p> <p>Accessory minerals Tr Clay 85 Glass Tr Pyrite Tr Quartz 10</p>
			<i>Thecosphaera japonica</i>										
					Indeterminate								



SITE 795 HOLE B CORE 6R CORED INTERVAL 3712.7-3722.0 mbsl; 413.8-423.1 mbsf

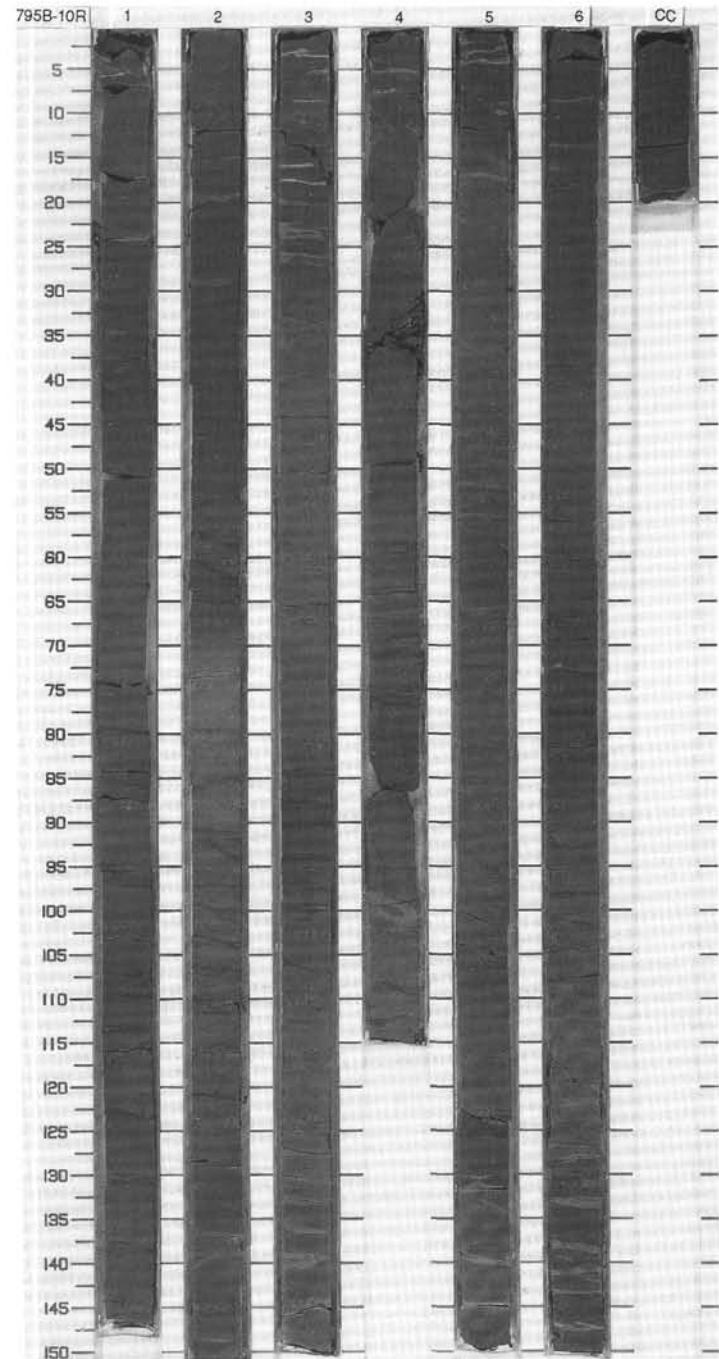
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																								
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS											DIATOMS																							
UPPER MIOCENE ?	B							1					<p>SILICEOUS CLAYSTONE</p> <p>Major lithology: SILICEOUS CLAYSTONE, dark greenish gray (5GY 4/1) to olive black (5Y 2/1).</p> <p>Minor lithology: None.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1.82</td> </tr> <tr> <td>D</td> <td></td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Silt</td> <td>10</td> </tr> <tr> <td>Clay</td> <td>90</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>85</td> </tr> <tr> <td>Feldspar</td> <td>1</td> </tr> <tr> <td>Glass</td> <td>1</td> </tr> <tr> <td>Pyrite</td> <td>5</td> </tr> <tr> <td>Quartz</td> <td>8</td> </tr> </table> <p>Organic carbon and carbonate (%)</p> <table border="1"> <thead> <tr> <th>Sample</th> <th>Org. C.</th> <th>CaCO₃</th> </tr> </thead> <tbody> <tr> <td>1, 83</td> <td>0.65</td> <td>0.5</td> </tr> </tbody> </table>		1.82	D		Silt	10	Clay	90	Clay	85	Feldspar	1	Glass	1	Pyrite	5	Quartz	8	Sample	Org. C.	CaCO ₃	1, 83	0.65	0.5
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					0-80.8 41.98																																

SITE 795 HOLE B CORE 7R CORED INTERVAL 3722.0-3731.7 mbsl; 423.1-437.8 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION						
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS											DIATOMS					
UPPER MIOCENE ?	B							0.5					<p>SILICEOUS SILTY CLAYSTONE</p> <p>Major lithology: SILICEOUS SILTY CLAYSTONE, dark greenish gray (5G 4/1) to greenish black (5GY 2/1); flattened horizontal burrows.</p> <p>Minor lithology: None.</p> <p>Organic carbon and carbonate (%)</p> <table border="1"> <thead> <tr> <th>Sample</th> <th>Org. C.</th> <th>CaCO₃</th> </tr> </thead> <tbody> <tr> <td>1, 2</td> <td>0.58</td> <td>0.2</td> </tr> </tbody> </table>	Sample	Org. C.	CaCO ₃	1, 2	0.58	0.2
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					0-56.8 41.91														

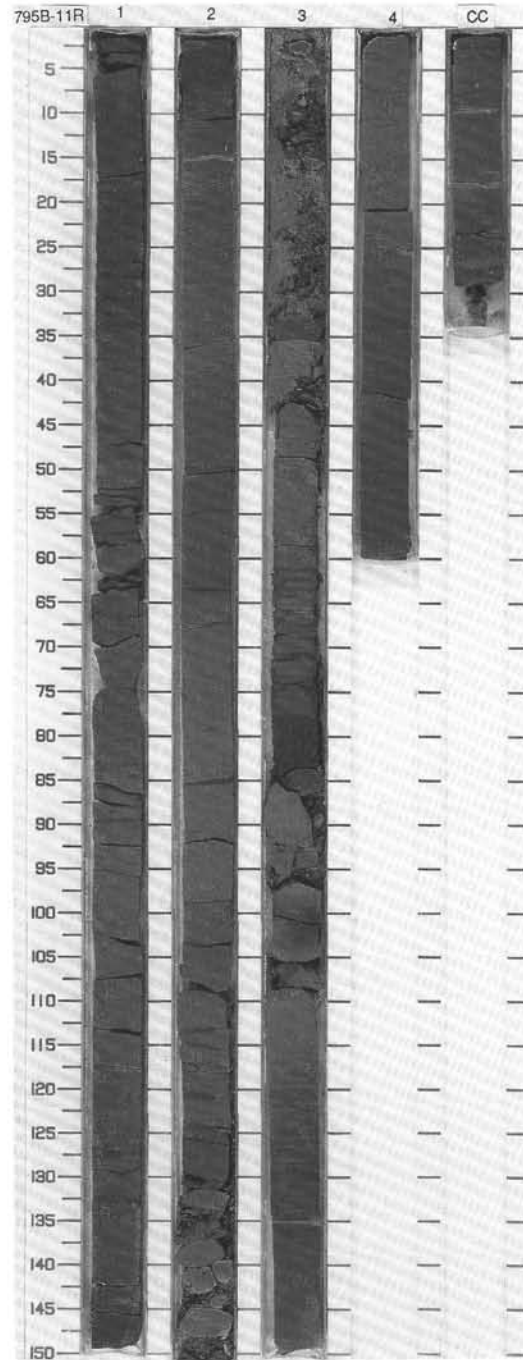


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																										
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UPPER MIOCENE ?							1	0.5				<p>SILICEOUS CLAYSTONE</p> <p>Major lithology: SILICEOUS CLAYSTONE, greenish olive (5Y 3/2), grayish olive (10Y 4/2), olive gray (5Y 3/2), grayish olive green (5GY 3/2) and dark green gray (5GY 4/1); moderately to heavily bioturbated with abundant horizontally flattened and oval burrows and a few vertical burrows; some burrows filled with pyrite; a few large foraminifers.</p> <p>Minor lithology: Thin (0.5 cm) vitric tuff layers in Section 2 at 79 and 91 cm.</p> <p>XRD</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 100</td> <td>2, 80</td> <td>4, 58</td> <td>6, 128</td> </tr> <tr> <td></td> <td>D</td> <td>M</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Silt</td> <td>15</td> <td>80</td> <td>5</td> <td>10</td> </tr> <tr> <td>Clay</td> <td>85</td> <td>20</td> <td>95</td> <td>90</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>80</td> <td>30</td> <td>85</td> <td>80</td> </tr> <tr> <td>Diatoms</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Feldspar</td> <td>5</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Glass</td> <td>—</td> <td>60</td> <td>—</td> <td>—</td> </tr> <tr> <td>Pyrite</td> <td>5</td> <td>—</td> <td>1</td> <td>1</td> </tr> <tr> <td>Quartz</td> <td>10</td> <td>5</td> <td>4</td> <td>5</td> </tr> <tr> <td>Radiolarians</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Silica</td> <td>—</td> <td>—</td> <td>10</td> <td>10</td> </tr> </table> <p>Organic carbon and carbonate (%)</p> <table border="1"> <thead> <tr> <th>Sample</th> <th>Org. C.</th> <th>CaCO₃</th> </tr> </thead> <tbody> <tr> <td>4, 147</td> <td>1.12</td> <td>0.4</td> </tr> <tr> <td>5, 2</td> <td>0.96</td> <td>0.5</td> </tr> </tbody> </table> <p>OC RM LW</p>		1, 100	2, 80	4, 58	6, 128		D	M	D	D	Silt	15	80	5	10	Clay	85	20	95	90	Accessory minerals	—	—	—	Tr	Clay	80	30	85	80	Diatoms	—	—	—	Tr	Feldspar	5	—	—	—	Glass	—	60	—	—	Pyrite	5	—	1	1	Quartz	10	5	4	5	Radiolarians	—	Tr	—	—	Silica	—	—	10	10	Sample	Org. C.	CaCO ₃	4, 147	1.12	0.4	5, 2	0.96	0.5
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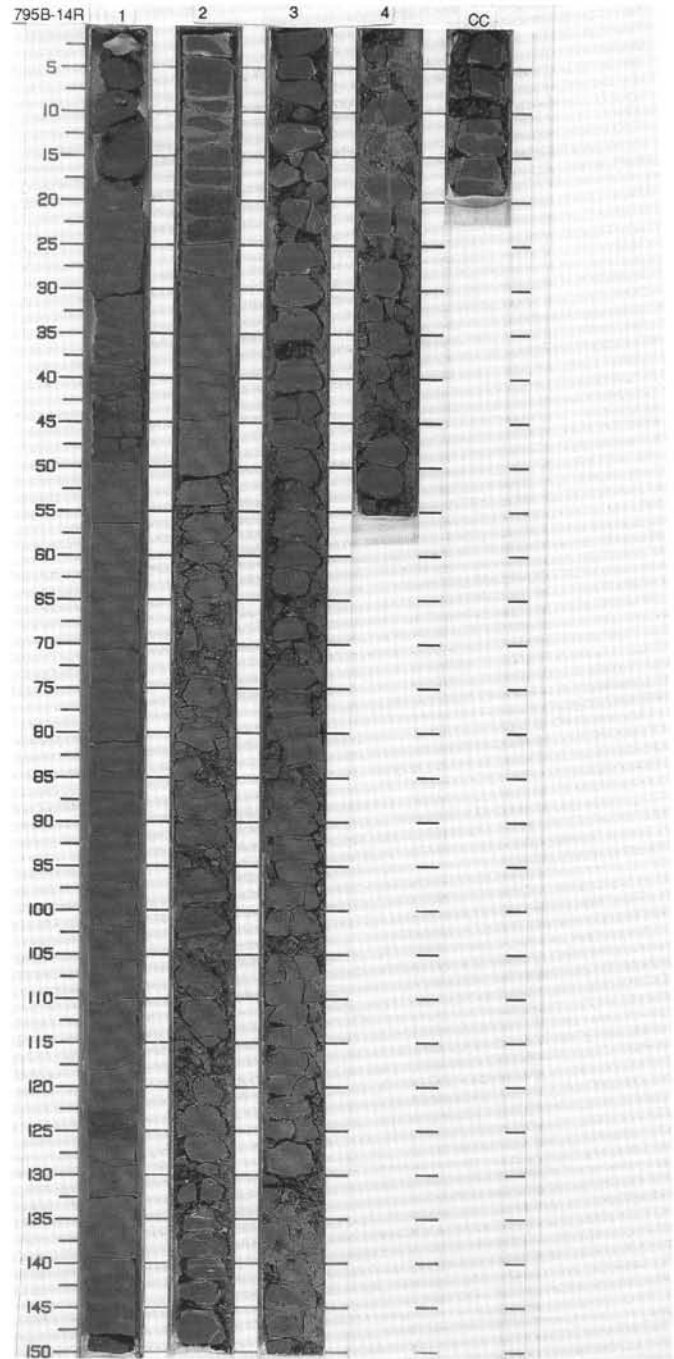


SITE 795 HOLE B CORE 11R CORED INTERVAL 3760.6-3770.3 mbsl; 461.7-471.4 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																					
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UPPER MIOCENE ?						0.5 1.0					<p>SILICEOUS CLAYSTONE</p> <p>* Major lithology: SILICEOUS CLAYSTONE, dark greenish gray (5G 4/1), greenish black (5GY 2/1), olive gray (5Y 4/1) and grayish olive (10Y 5/2); moderately to highly bioturbated with abundant horizontally flattened burrows (a few vertical burrows); a few large foraminifers are visible; pyrite in burrows and disseminated throughout claystone.</p> <p>Minor lithology: None.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 30</td> <td>3, 66</td> <td>CC, 11</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Silt</td> <td>10</td> <td>5</td> <td>5</td> </tr> <tr> <td>Clay</td> <td>90</td> <td>95</td> <td>95</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Bioclast</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>85</td> <td>85</td> <td>95</td> </tr> <tr> <td>Glass</td> <td>Tr</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Pyrite</td> <td>2</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Quartz</td> <td>5</td> <td>2</td> <td>2</td> </tr> <tr> <td>Silica</td> <td>5</td> <td>10</td> <td>Tr</td> </tr> </table> <p>Organic carbon and carbonate (%)</p> <table border="1"> <thead> <tr> <th>Sample</th> <th>Org. C.</th> <th>CaCO₃</th> </tr> </thead> <tbody> <tr> <td>2, 2</td> <td>1.20</td> <td>0.4</td> </tr> <tr> <td>2, 95</td> <td>0.61</td> <td>0.8</td> </tr> </tbody> </table>		1, 30	3, 66	CC, 11		D	D	D	Silt	10	5	5	Clay	90	95	95	Accessory minerals	Tr	Tr	Tr	Bioclast	—	—	Tr	Clay	85	85	95	Glass	Tr	Tr	—	Pyrite	2	1	Tr	Quartz	5	2	2	Silica	5	10	Tr	Sample	Org. C.	CaCO ₃	2, 2	1.20	0.4	2, 95	0.61	0.8
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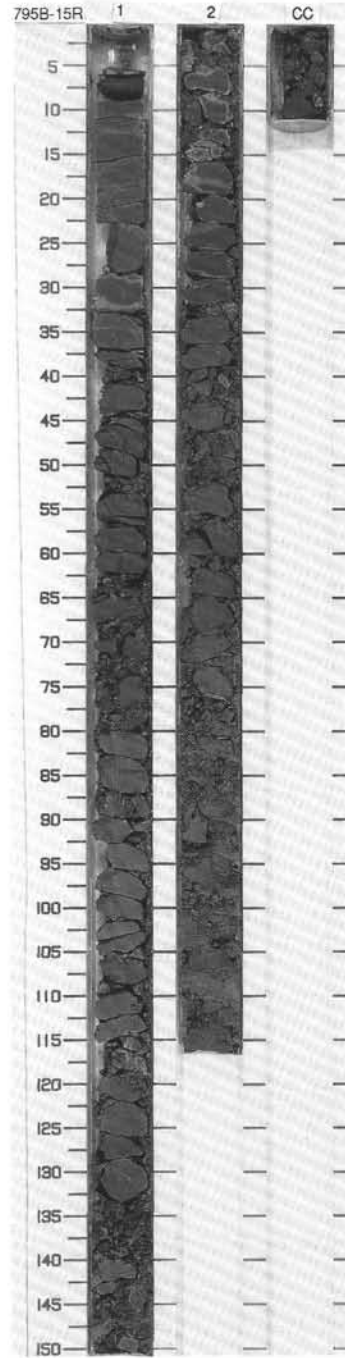


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION									
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS											DIATOMS								
UPPER MIOCENE ?	B						1	0.5	[Lithology pattern: wavy lines with small dashes]	XX	---	*	SILICEOUS SILTY CLAYSTONE									
	B						1	1.0					Major lithology: SILICEOUS SILTY CLAYSTONE, dark greenish gray (5G 4/1); heavily bioturbated with indistinct horizontally flattened burrows; foraminifers present throughout; scattered microfractures.									
	B						2						Minor lithology: Pyrite-bearing siliceous silty claystone, olive gray (5Y 3/2); moderately bioturbated with very distinct horizontally flattened burrows; interbedded with major lithology in Section 1 at 40-50 and 123-127 cm, and in Section 2 at 18-24 and 99-103 cm. Tuff medium dark gray (N4) in Section 1 at 51 cm. Dolomite pebbles, light olive gray (5Y 6/1) in Section 1 at top within drilling breccia.									
	B						3						* SMEAR SLIDE SUMMARY (%):									
							4						<table border="1"> <tr> <td></td> <td>1, 22</td> <td>2, 22</td> <td>4, 35</td> </tr> <tr> <td></td> <td>D</td> <td>M</td> <td>D</td> </tr> </table>		1, 22	2, 22	4, 35		D	M	D	
	1, 22	2, 22	4, 35																			
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							CC						TEXTURE: Silt 5 10 5 Clay 95 90 95 COMPOSITION: Accessory minerals Tr Tr Tr Clay 95 95 95 Glass Tr Tr Tr Pyrite Tr 2 1 Quartz — — 1 Silica Tr — Tr Organic carbon and carbonate (%) <table border="1"> <tr> <th>Sample</th> <th>Org. C</th> <th>CaCO₃</th> </tr> <tr> <td>2, 25</td> <td>1.09</td> <td>0.7</td> </tr> <tr> <td>3, 2</td> <td>0.58</td> <td>0.3</td> </tr> </table>	Sample	Org. C	CaCO ₃	2, 25	1.09	0.7	3, 2	0.58	0.3
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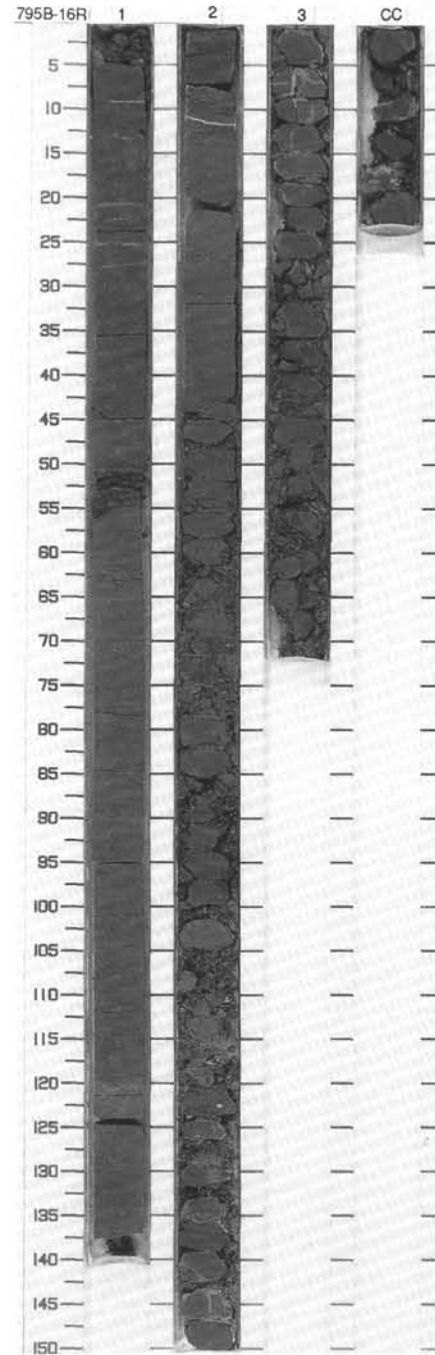


SITE 795 HOLE B CORE 15R CORED INTERVAL 3798.9-3808.6 mbsl; 500.0-509.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE / FOSSIL CHARACTER			PALEOMAGNETICS	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																							
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS									DIATOMS	PHYS. PROPERTIES																																					
UPPER MIOCENE ?						1 0.5 1.0					<p>SILT-BEARING SILICEOUS CLAYSTONE</p> <p>Major lithology: SILT-BEARING SILICEOUS CLAYSTONE, dark greenish gray (5G 4/1 to 5G 5/1); highly bioturbated; horizontal and sub-horizontal flattened burrows (most mm to a few cm in length); scattered foraminifers and microfractures; significant drilling disturbance (highly fragmented).</p> <p>Minor lithology: None.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 32</td> <td>2, 103</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Silt</td> <td>5</td> <td>5</td> </tr> <tr> <td>Clay</td> <td>95</td> <td>95</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>95</td> <td>95</td> </tr> <tr> <td>Diatoms</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Glass</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Pyrite</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Quartz</td> <td>1</td> <td>1</td> </tr> <tr> <td>Silica</td> <td>Tr</td> <td>Tr</td> </tr> </table> <p>Organic carbon and carbonate (%)</p> <table border="1"> <thead> <tr> <th>Sample</th> <th>Org. C</th> <th>CaCO₃</th> </tr> </thead> <tbody> <tr> <td>2, 2</td> <td>0.71</td> <td>0.2</td> </tr> </tbody> </table>		1, 32	2, 103	D	D	D	Silt	5	5	Clay	95	95	Accessory minerals	Tr	Tr	Clay	95	95	Diatoms	—	Tr	Glass	Tr	Tr	Pyrite	Tr	Tr	Quartz	1	1	Silica	Tr	Tr	Sample	Org. C	CaCO ₃	2, 2	0.71	0.2
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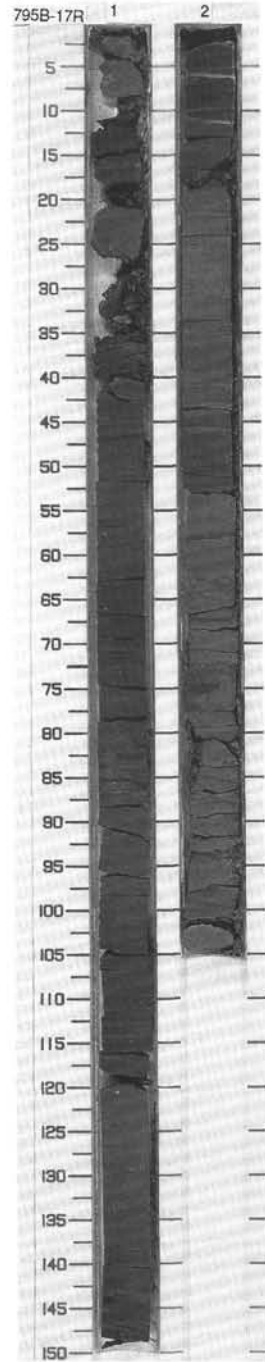


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																					
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UPPER MIOCENE 7	B							0.5					<p>SILICEOUS SILTY CLAYSTONE</p> <p>Major lithology: SILICEOUS SILTY CLAYSTONE, dark greenish gray (5GY 2/1); highly bioturbated with abundant indistinct, horizontally flattened burrows; pyrite disseminated throughout claystone and concentrated in darker-colored burrows; microfractures locally.</p> <p>Minor lithology: Pyrite-bearing siliceous silty claystone, brownish gray (5YR 4/1), moderately bioturbated with horizontally compacted burrows; occurs in Section 1 at 54-58 cm. Scattered glauconite grains throughout.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 27</td> <td>2, 20</td> <td>3, 20</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Silt</td> <td>20</td> <td>15</td> <td>10</td> </tr> <tr> <td>Clay</td> <td>80</td> <td>85</td> <td>90</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>Tr</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>95</td> <td>95</td> <td>90</td> </tr> <tr> <td>Glass</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Organic matter</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Pyrite</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Quartz</td> <td>—</td> <td>—</td> <td>5</td> </tr> <tr> <td>Silica</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> </table> <p>Organic carbon and carbonate (%)</p> <table border="1"> <thead> <tr> <th>Sample</th> <th>Org. C.</th> <th>CaCO₃</th> </tr> </thead> <tbody> <tr> <td>1, 145</td> <td>0.68</td> <td>0.2</td> </tr> <tr> <td>1, 147</td> <td>0.61</td> <td>0.3</td> </tr> </tbody> </table>		1, 27	2, 20	3, 20	D	D	D	D	Silt	20	15	10	Clay	80	85	90	Accessory minerals	Tr	Tr	—	Clay	95	95	90	Glass	Tr	Tr	Tr	Organic matter	Tr	—	—	Pyrite	Tr	Tr	Tr	Quartz	—	—	5	Silica	—	—	Tr	Sample	Org. C.	CaCO ₃	1, 145	0.68	0.2	1, 147	0.61	0.3
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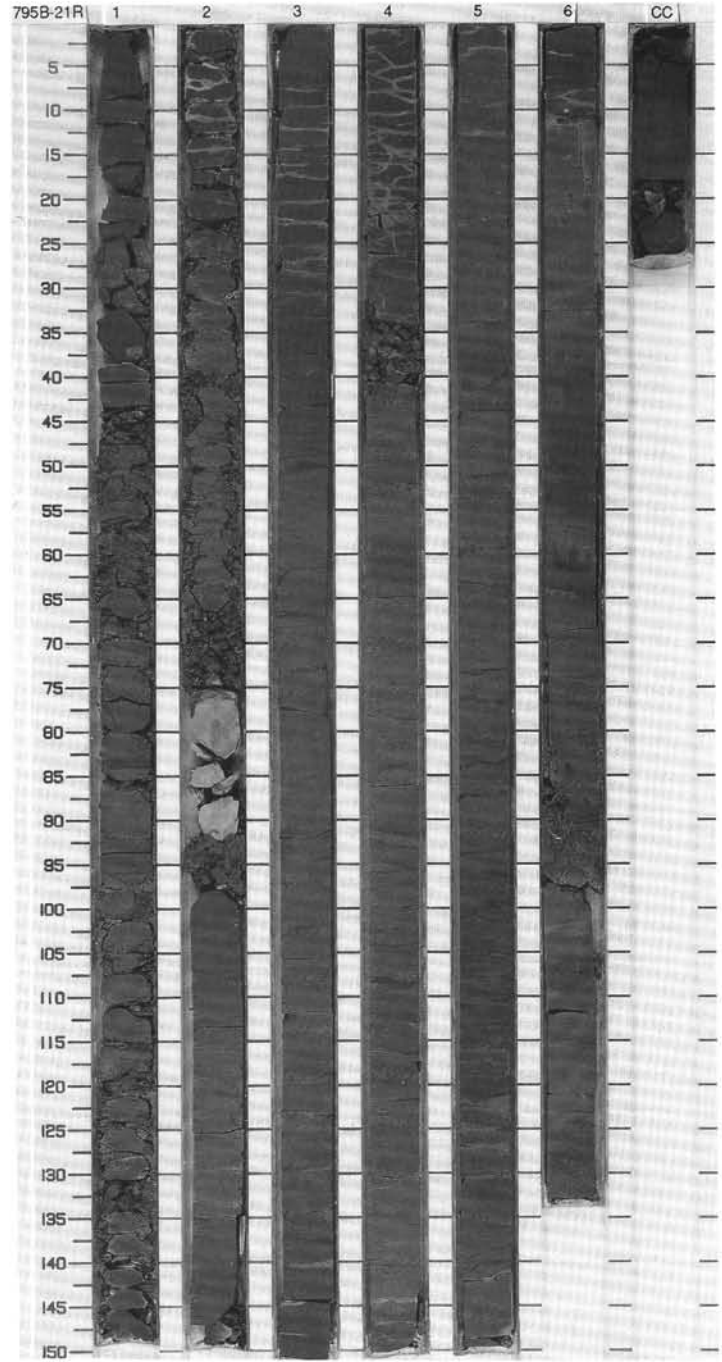
SITE 795 HOLE B CORE 17R CORED INTERVAL 3818.3-3828.0 mbsl; 519.4-529.1 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS		CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																									
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UPPER MIOCENE ?					Indeterminate 175.4-179.8 175.4-179.8 175.4-179.8			1 1.0	0.5 1.0		TS *	<p>SILICEOUS CLAYSTONE</p> <p>Major lithology: SILICEOUS CLAYSTONE, dark greenish gray (5G 4 1) and olive gray (5Y 4/1), highly bioturbated with abundant indistinct horizontal burrows (flattened), interbedded on a scale of 10 to 20 cm with SILICEOUS CLAYSTONE, olive black (5Y 2 1), brownish gray (5YR 4/1) and brownish black (5YR 2/1), moderately bioturbated, with very distinct, flattened horizontal burrows; scattered foraminifers and pyrite.</p> <p>Minor lithology: None.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 96</td> <td>1, 131</td> <td>2, 69</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Silt</td> <td>2</td> <td>3</td> <td>5</td> </tr> <tr> <td>Clay</td> <td>98</td> <td>97</td> <td>95</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>95</td> <td>95</td> <td>95</td> </tr> <tr> <td>Glauconite</td> <td>1</td> <td>—</td> <td>—</td> </tr> <tr> <td>Pyrite</td> <td>2</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Quartz</td> <td>2</td> <td>1</td> <td>2</td> </tr> <tr> <td>Silica</td> <td>—</td> <td>Tr</td> <td>Tr</td> </tr> </table> <p>Organic carbon and carbonate (%)</p> <table border="1"> <thead> <tr> <th>Sample</th> <th>Org. C.</th> <th>CaCO₃</th> </tr> </thead> <tbody> <tr> <td>2, 2</td> <td>2.02</td> <td>0.2</td> </tr> </tbody> </table>		1, 96	1, 131	2, 69	D	D	D	D	Silt	2	3	5	Clay	98	97	95	Clay	95	95	95	Glauconite	1	—	—	Pyrite	2	Tr	Tr	Quartz	2	1	2	Silica	—	Tr	Tr	Sample	Org. C.	CaCO ₃	2, 2	2.02	0.2
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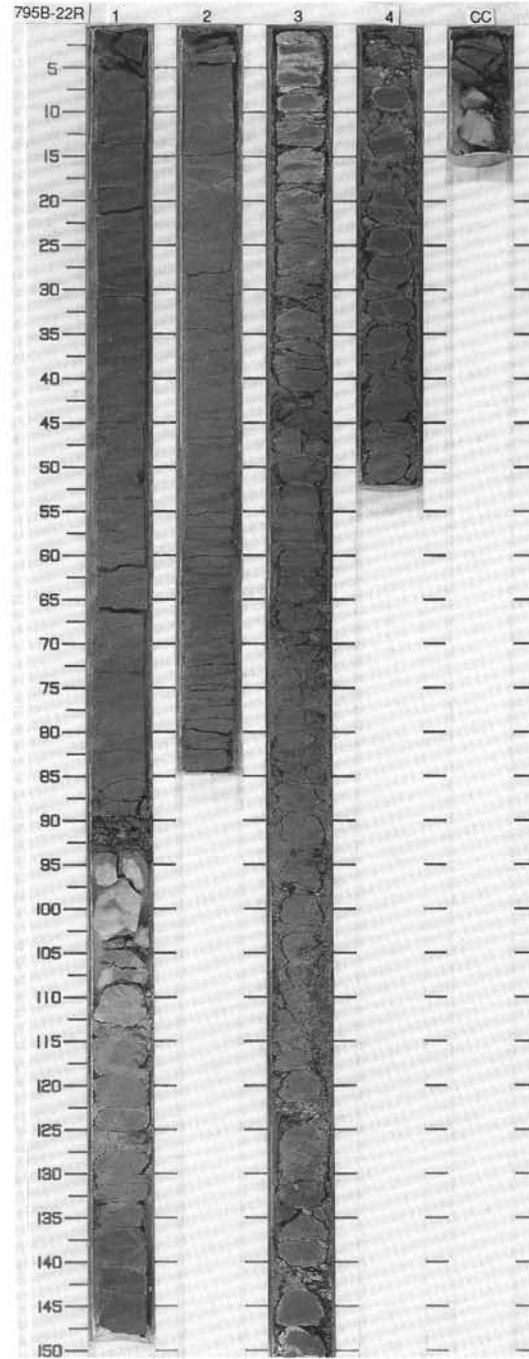


SITE 795 HOLE B CORE 21R CORED INTERVAL 3857.0-3866.6 mbsi; 558.1-567.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																										
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																			
MIDDLE MIOCENE				<i>Denticulopsis praedimorpha</i>				1					<p>CLAYSTONE</p> <p>Major lithology: CLAYSTONE, dusky yellow green (5GY 5/2) to grayish olive (10Y 4/2) light colored beds with short horizontal and oblique burrows alternate with grayish olive green (5GY 3/2) darker beds with flattened horizontal locomotion burrows. Water escape veinlets in Section 3 between 70 and 130 cm.</p> <p>Minor lithology: None.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>2, 86</td> </tr> <tr> <td>M</td> <td></td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Silt</td> <td>40</td> </tr> <tr> <td>Clay</td> <td>60</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>Tr</td> </tr> <tr> <td>Diatoms</td> <td>10</td> </tr> <tr> <td>Inorganic calcite</td> <td>80</td> </tr> <tr> <td>Pyrite</td> <td>5</td> </tr> <tr> <td>Quartz</td> <td>Tr</td> </tr> <tr> <td>Radiolarians</td> <td>5</td> </tr> </table> <p>Organic carbon and carbonate (%)</p> <table border="1"> <thead> <tr> <th>Sample</th> <th>Org. C</th> <th>CaCO₃</th> </tr> </thead> <tbody> <tr> <td>6, 2</td> <td>0.72</td> <td>0.1</td> </tr> </tbody> </table>		2, 86	M		Silt	40	Clay	60	Clay	Tr	Diatoms	10	Inorganic calcite	80	Pyrite	5	Quartz	Tr	Radiolarians	5	Sample	Org. C	CaCO ₃	6, 2	0.72	0.1
	2, 86																																						
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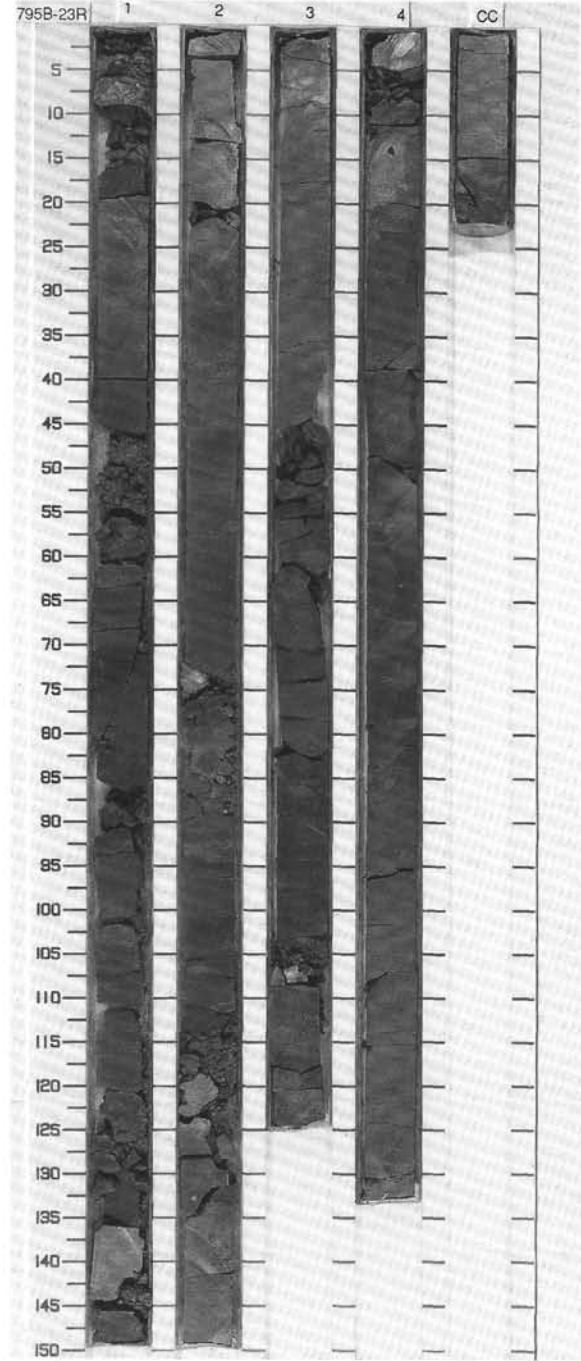


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SEC. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																					
	FORAMINIFERS	NAUPOSSILS	RADIOLARIANS	DIAZONS																																																													
	PHYS. PROPERTIES																																																																
	CHEMISTRY																																																																
MIDDLE MIOCENE	<i>Denticulopsis praedimorpha</i>				Indeterminate V-186.1 0.45.2 P-2.08	1 0.5 1.0						CLAYSTONE																																																					
B	B	B	R/P		V-181.2 0.62.8 P-1.78	2						* Major lithology: CLAYSTONE, grayish olive (10Y 4/2) to dark greenish gray (5Y 4/1), heavily bioturbated and mottled with short oblique and horizontal burrows in lighter layers and horizontal burrows in darker layers. TS Minor lithology: Tuff, greenish gray (5G 6/1), coarse to fine, laminated, fining upward, in Section 1, 95-137 cm. Calcareous chert, olive gray (5Y 3/2) in Core Catcher at 5-14 cm. TS SMEAR SLIDE SUMMARY (%): <table border="1"> <tr> <td></td> <td>1, 40</td> <td>1, 94</td> <td>1, 133</td> </tr> <tr> <td></td> <td>D</td> <td>M</td> <td>M</td> </tr> </table> TEXTURE: <table border="1"> <tr> <td>Sand</td> <td>—</td> <td>—</td> <td>10</td> </tr> <tr> <td>Silt</td> <td>5</td> <td>5</td> <td>20</td> </tr> <tr> <td>Clay</td> <td>95</td> <td>95</td> <td>70</td> </tr> </table> COMPOSITION: <table border="1"> <tr> <td>Biotite</td> <td>—</td> <td>—</td> <td>1</td> </tr> <tr> <td>Clay</td> <td>92</td> <td>50</td> <td>95</td> </tr> <tr> <td>Feldspar</td> <td>—</td> <td>Tr</td> <td>1</td> </tr> <tr> <td>Inorganic calcite</td> <td>—</td> <td>50</td> <td>—</td> </tr> <tr> <td>Pyrite</td> <td>3</td> <td>Tr</td> <td>1</td> </tr> <tr> <td>Quartz</td> <td>5</td> <td>Tr</td> <td>1</td> </tr> </table> Organic carbon and carbonate (%) <table border="1"> <tr> <th>Sample</th> <th>Org. C.</th> <th>CaCO₃</th> </tr> <tr> <td>2, 87</td> <td>0.53</td> <td>0.2</td> </tr> <tr> <td>3, 2</td> <td>0.53</td> <td>0.1</td> </tr> </table>		1, 40	1, 94	1, 133		D	M	M	Sand	—	—	10	Silt	5	5	20	Clay	95	95	70	Biotite	—	—	1	Clay	92	50	95	Feldspar	—	Tr	1	Inorganic calcite	—	50	—	Pyrite	3	Tr	1	Quartz	5	Tr	1	Sample	Org. C.	CaCO ₃	2, 87	0.53	0.2	3, 2	0.53	0.1
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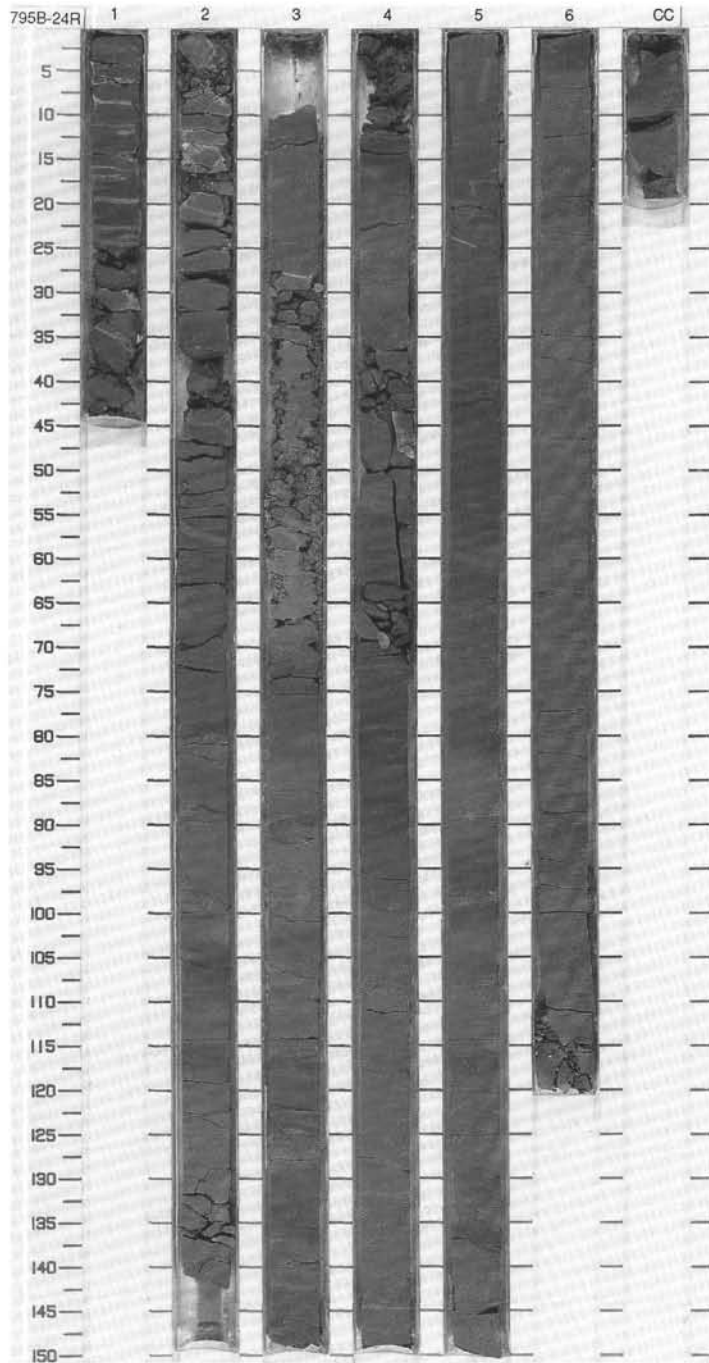


SITE 795 HOLE B CORE 23R CORED INTERVAL 3876.3-3885.9 mbsl; 577.4-587.0 mbsf

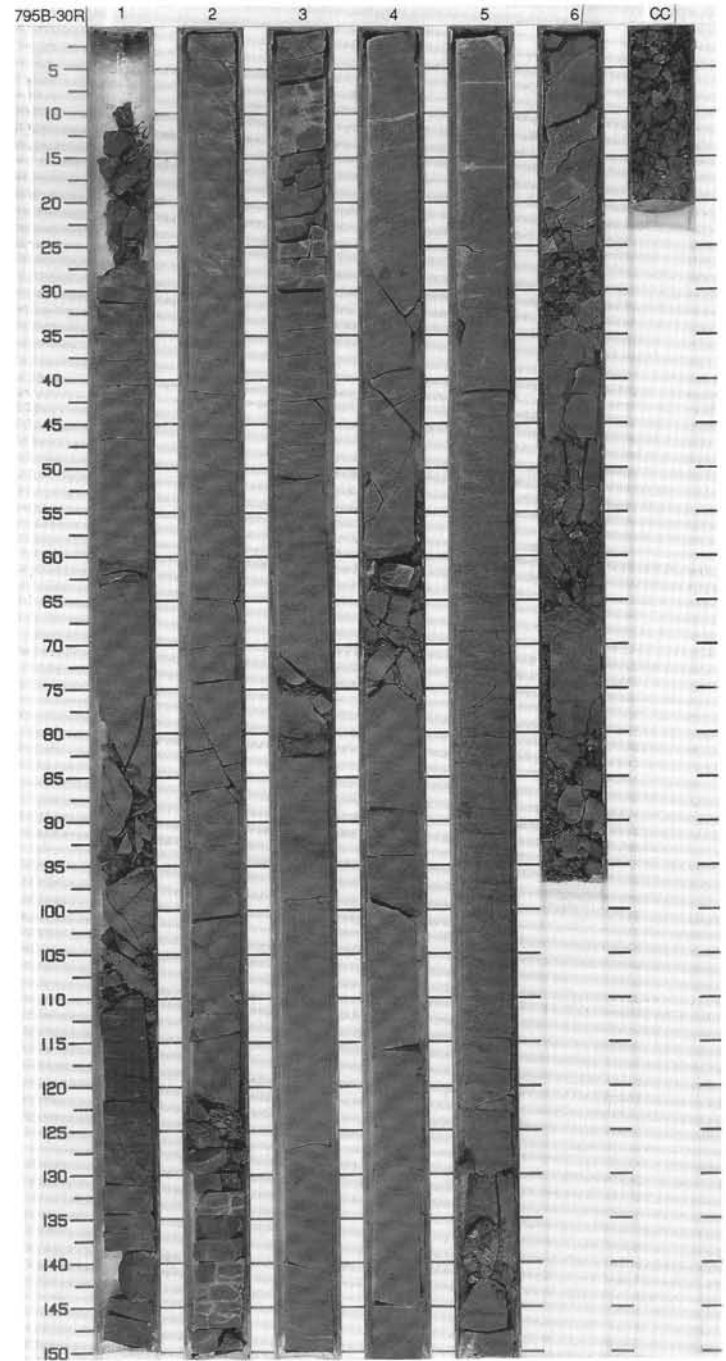
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION									
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																			
MIDDLE MIOCENE ?					Indeterminate			1	0.5		X			<p>CLAYSTONE</p> <p>Major lithology: CLAYSTONE, grayish olive green (5GY 3/2), greenish gray (5G 6/1) to light olive gray (5Y 5/2), heavily to moderately bioturbated and mottled with horizontal burrows in darker layers and horizontal and oblique burrows in lighter layers.</p> <p>Minor lithology: Vitric tuff (altered), in 2 to 12 cm beds, yellowish gray (5Y 7/2), light olive gray (5Y 6/1) often graded and bioturbated in Section 1 at 13, 58, 85 and 125 cm. Section 2, 78-89 and 108-125 cm.</p> <p>Organic carbon and carbonate (%)</p> <table border="1"> <thead> <tr> <th>Sample</th> <th>Org. C.</th> <th>CaCO₃</th> </tr> </thead> <tbody> <tr> <td>2, 2</td> <td>0.74</td> <td>0.1</td> </tr> <tr> <td>2, 146</td> <td>0.57</td> <td>0.2</td> </tr> </tbody> </table>	Sample	Org. C.	CaCO ₃	2, 2	0.74	0.1	2, 146	0.57	0.2
Sample	Org. C.	CaCO ₃																					
2, 2	0.74	0.1																					
2, 146	0.57	0.2																					
					V-1830 ● 0.43.7 P-2.06		2	1.0			X												
					V-1838 ● 0.43.8 P-2.08		3																
					V-1922 ● 0.41.0 P-2.16		4																
							CC																



TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																				
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																														
MIDDLE MIOCENE ?					V-1806 $\frac{0-43.7}{2-09}$			1	0.5				* CLAYSTONE	<p>Major lithology: CLAYSTONE, greenish gray (5GY 6/1), light olive brown (5Y 5/6) and dark greenish gray (5GY 4/1); highly bioturbated, with abundant horizontally flattened burrows, some highly pyriform; interbedded with claystone, dark yellow brown (10YR 4/2), moderately bioturbated with distinct horizontal burrows in Section 4 at 70-85 cm.</p> <p>Minor lithology: Tuff, medium dark gray (N4), to light greenish gray (5GY 8/1); parallel laminations at base; normally graded from coarse tuff at base to fine tuff at top; occurs in Section 3 at 46-73 cm (possible turbidite).</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 10</td> <td>5, 113</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Silt</td> <td>5</td> <td>2</td> </tr> <tr> <td>Clay</td> <td>95</td> <td>98</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>95</td> <td>98</td> </tr> <tr> <td>Pyrite</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Quartz</td> <td>2</td> <td>Tr</td> </tr> </table> <p>Organic carbon and carbonate (%)</p> <table border="1"> <thead> <tr> <th>Sample</th> <th>Org. C.</th> <th>CaCO₃</th> </tr> </thead> <tbody> <tr> <td>4, 74</td> <td>1.01</td> <td>0.1</td> </tr> <tr> <td>5, 112</td> <td>0.73</td> <td>0.1</td> </tr> <tr> <td>6, 2</td> <td>0.66</td> <td>0.1</td> </tr> </tbody> </table>		1, 10	5, 113	D	D	D	Silt	5	2	Clay	95	98	Accessory minerals	—	Tr	Clay	95	98	Pyrite	Tr	Tr	Quartz	2	Tr	Sample	Org. C.	CaCO ₃	4, 74	1.01	0.1	5, 112	0.73	0.1	6, 2	0.66	0.1
	1, 10	5, 113																																																
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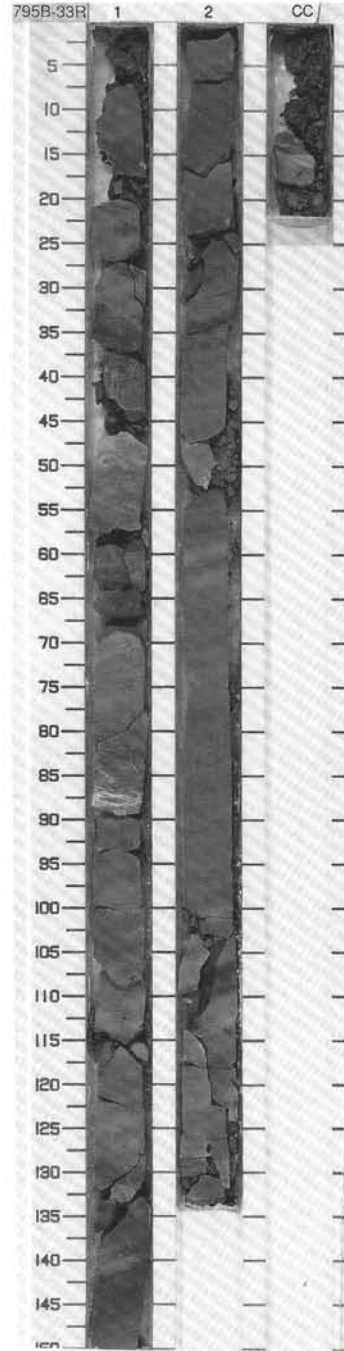


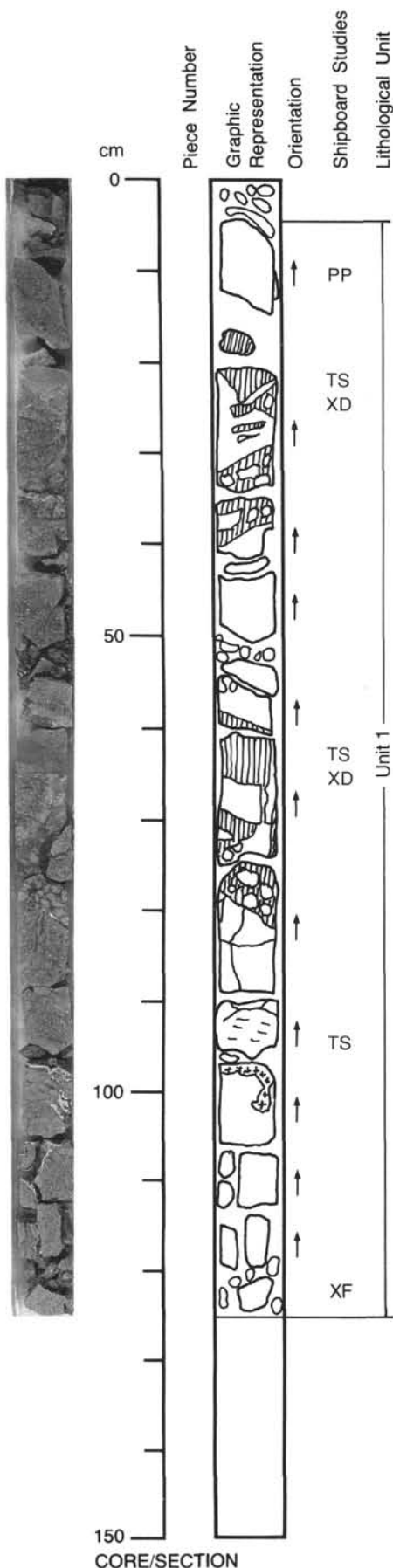
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION						
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS															
MIDDLE MIOCENE ?																			
B					Indeterminate			0.5		X			<p>CLAYSTONE</p> <p>Major lithology: CLAYSTONE, dusky yellow green (5GY 5/2) to grayish green (10GY 5/2), heavily bioturbated and homogeneous with mostly small (<1 cm), distinct, dark horizontal to slightly oblique burrows and minor large (1-6 cm) flattened, horizontal burrows. Alternates with claystone, olive gray (5Y 4/1) to olive black (5Y 2/1), moderately to heavily bioturbated with mostly large (1-6 cm) flattened, horizontal burrows.</p> <p>Minor lithology: None.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="padding-left: 40px;">3, 100 D</p> <p>TEXTURE:</p> <p>Silt 5 Clay 95</p> <p>COMPOSITION:</p> <p>Clay 93 Pyrite 2</p> <p style="padding-left: 40px;">Organic carbon and carbonate (%)</p> <table border="1" style="margin-left: 40px;"> <thead> <tr> <th>Sample</th> <th>Org. C</th> <th>CaCO₃</th> </tr> </thead> <tbody> <tr> <td>3, 2</td> <td>0.56</td> <td>0.2</td> </tr> </tbody> </table>	Sample	Org. C	CaCO ₃	3, 2	0.56	0.2
Sample	Org. C	CaCO ₃																	
3, 2	0.56	0.2																	
B					V-1879 ● G-43.4 V-1879 ● P-2.16		1.0		X										
B							2		X										
B							3		X										
							4		X										
							5		X										
							6		X										
							CC		X										



SITE 795 HOLE B CORE 33R CORED INTERVAL 3972.8-3982.4 mbsl; 673.9-683.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION						
	FORAMINIFERS	NANNOFOSSELS	RADIOLARIANS	DIAZONS															
	Indeterminate																		
	V-2189 0-4.2.3 P-2.1B																		
MIDDLE MIOCENE ?	B	B	B	B									<p>CLAYSTONE</p> <p>Major lithology: CLAYSTONE, dusky yellow green (5G 5/2) alternating with olive gray (5Y 4/1) and grayish olive (10Y 4/2), heavily to moderately bioturbated with fluid escape veinlets and fractures. calcite filled fractures and minor micro-normal faults (Section 2, 40 cm).</p> <p>Minor lithology: Tuff, medium bluish gray (5B 5/1) to greenish black (5G 2/1) and tuffaceous claystone, greenish gray (5GY 6/1), medium bedded to laminated and bioturbated. Rare, large (1 by 5 cm) escape burrows. Fluid escape veinlets and subhorizontal fractures.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="text-align: right;">2.80 D</p> <p>COMPOSITION:</p> <p>Silt 5 Clay 95</p> <p>COMPOSITION:</p> <p>Clay 94 Pyrite 1 Quartz 5</p> <p>Organic carbon and carbonate (%)</p> <table border="1"> <thead> <tr> <th>Sample</th> <th>Org. C.</th> <th>CaCO₃</th> </tr> </thead> <tbody> <tr> <td>1, 2</td> <td>0.51</td> <td>0.1</td> </tr> </tbody> </table>	Sample	Org. C.	CaCO ₃	1, 2	0.51	0.1
Sample	Org. C.	CaCO ₃																	
1, 2	0.51	0.1																	





 Grayish green (5G5/2) fine-grained matrix

127-795B-34R-1

**UNIT 1: BRECCIATED SPARSELY PLAGIOCLASE
PYROXENE PHYRIC BASALTIC ANDESITE**

Pieces 5, 125 cm

CONTACTS: None.

PHENOCRYSTS:

Plagioclase - <5%; <2 mm; subhedral-anhedral.
Pyroxene - <1%; <2 mm; anhedral.

GROUNDMASS: Fine-grained, microlitic.

VESICLES: 5%; 0.5-10 mm; elongated; homogeneous; the orientation of the dominant elongation direction of the vesicles defines a planar fabric in many breccia fragments. The vesicles are filled by dark green clays.

COLOR: Dark gray (N3).

STRUCTURE: Brecciated.

ALTERATION: Moderately altered.

VEINS/FRACTURES: <1%; <5 mm; irregular; filled by greenish black clays and zeolite (heulandite?). Some fillings show a zonation from a brown-ochre coating, followed by bright green clays and zeolites.

ADDITIONAL COMMENTS: The unit is composed of two major components: 1) angular shaped basalt fragments with a maximum size of 10-15 cm. 2) Fine-grained grayish green matrix. There appear to be a range in the size of the basaltic fragments embedded in the matrix from <1 mm to 15 cm. Some fragments show concentric alteration. From 0-5 cm the section consists of drilling rubble containing claystone and pyrite.

127-795B-34R-CC

**UNIT 1: BRECCIATED SPARSELY PLAGIOCLASE
PYROXENE PHYRIC BASALTIC ANDESITE**

Piece N/A

CONTACTS: None.

PHENOCRYSTS:

Plagioclase - <5%; <2 mm; subhedral-anhedral.

Pyroxene - <1%; <2 mm; anhedral.

GROUNDMASS: Fine-grained, microlitic.

VESICLES: 5%; 0.5-5 mm; elongated; homogeneous; filled by dark greenish clays.

Elongation direction of vesicles defines a planar fabric.

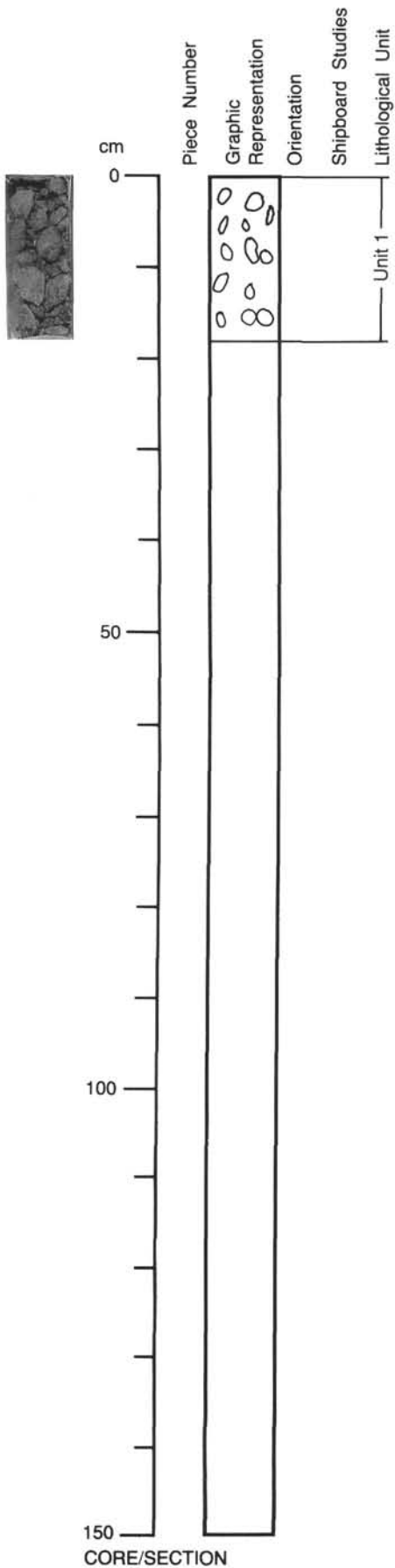
COLOR: Dark gray (N3).

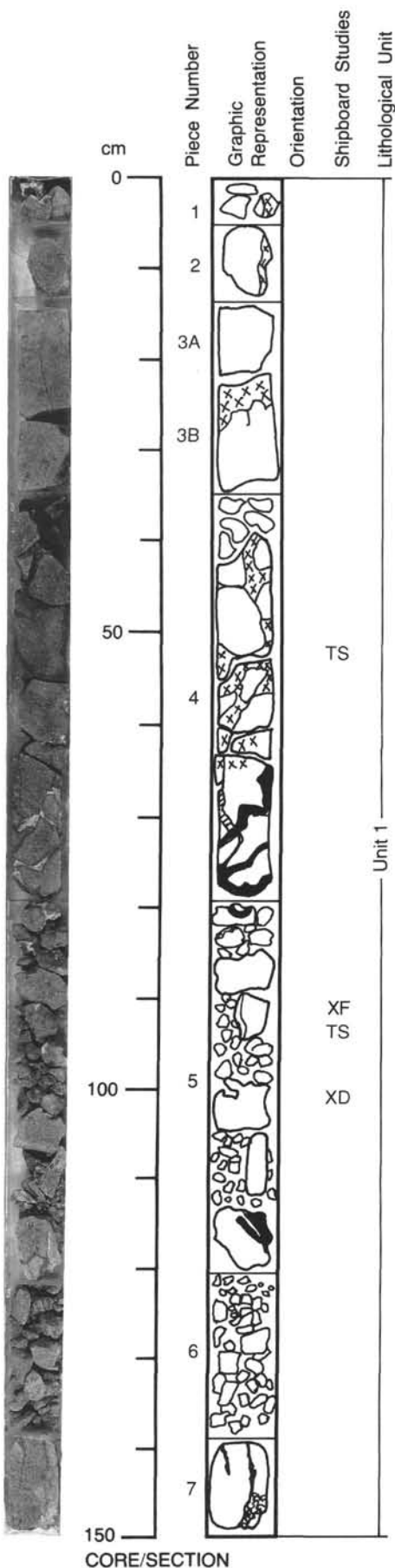
STRUCTURE: Brecciated.

ALTERATION: Medium altered.

VEINS/FRACTURES: Not seen.

ADDITIONAL COMMENTS: Unit continued from 127-795B-34R-1.





CORE/SECTION

-  Blue green clay vein infilling
-  Blue green clay vein infilling
-  Pink and green zeolite infilling

127-795B-35R-1

UNIT 1: BRECCIATED MODERATELY PLAGIOCLASE PYROXENE PHYRIC BASALTIC ANDESITE

Pieces 1-7

CONTACTS: None.

PHENOCRYSTS:
 Plagioclase - 2%; <2 mm; euhedral-subhedral, moderately altered to clays.
 Pyroxene - trace; <1.5 mm; subhedral-anhedral.

GROUNDMASS: Fine-grained, microlitic.

VESICLES: 5%; <12 mm; lobate to angular and elongate; homogeneous; the elongation direction of the vesicles defines a planar fabric in the breccia fragments.

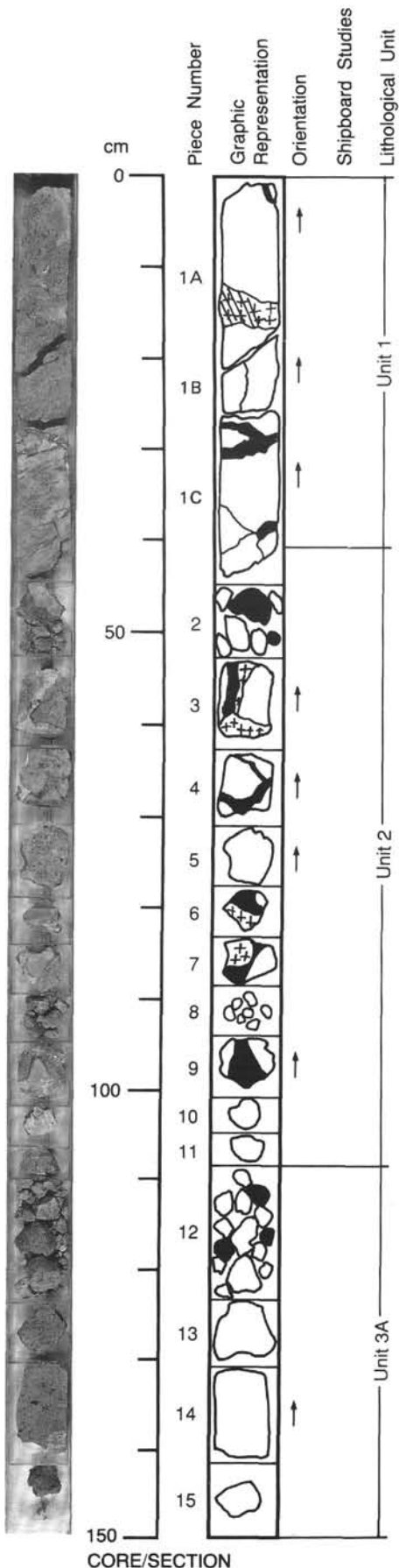
COLOR: Medium gray (N5).




STRUCTURE: Brecciated.

ALTERATION: Highly altered to clays; degree of alteration increases towards major fractures/fillings.

VEINS/FRACTURES: 5%; <10 mm; random; veins filled with clays.

ADDITIONAL COMMENTS: The section is highly brecciated (with clast sizes ranging from 5 to 10 cm) with a matrix composed of relatively finer sized basaltic fragments (1-10 mm) and a pale bluish green clay. Some fractures are filled by bluish green silicified material, dark green clay, and zeolites.



-  Brecciated
-  Vein filled by greenish clay and silica
-  Basalt

127-795B-36R-1

**UNIT 1: BRECCIATED MODERATELY PLAGIOCLASE
PYROXENE PHYRIC BASALTIC ANDESITE**

Pieces 1A-1C

CONTACTS: Lower contact is at 42 cm, below which occurs a high proportion of siliceous veins.

PHENOCRYSTS:

Plagioclase - 7%; 1 mm; subhedral.
Pyroxene - <5%; <1 mm; subhedral.

GROUNDMASS: Fine-grained, microlitic.

VESICLES: <3%; <2 mm; irregular; random; completely filled by clays.

COLOR: Medium gray (N5).

STRUCTURE: Brecciated.

ALTERATION: Highly altered.

VEINS/FRACTURES: 5%; <10 mm; irregular; filled by bluish green material and zeolites.
ADDITIONAL COMMENTS: Continued from 127-795B-35R-1.

**UNIT 2: SILICIFIED BRECCIATED PLAGIOCLASE PHYRIC
BASALT**

Pieces 1C (40 cm)-11

CONTACTS: Upper contact defined by the appearance of silicified veins/tuff. Lower contact not seen.

PHENOCRYSTS: Identification of mafic phenocrysts not possible because of extensive alteration.

Plagioclase - 7%; 1 mm; subhedral.

GROUNDMASS: Fine-grained.

VESICLES: 2-5%; <8 mm; irregular; homogeneous; filled by clays.

COLOR: Medium gray (N5).

STRUCTURE: Brecciated, silicified and veined basalt

ALTERATION: Highly altered.

VEINS/FRACTURES: 10%; 10-20 mm; random; greenish gray silicified tuff or siliceous alteration.

ADDITIONAL COMMENTS: The basaltic fragments appear to be petrographically similar to those of Unit 1.

**UNIT 3A: SPARSELY PYROXENE PLAGIOCLASE PHYRIC
BASALT**

Pieces 12-15

CONTACTS: None.

PHENOCRYSTS:

Pyroxene - 3%; <1 mm; subhedral.
Plagioclase - <2%; <1 mm; euhedral-subhedral, often highly altered.

GROUNDMASS: Fine-grained, microlitic.

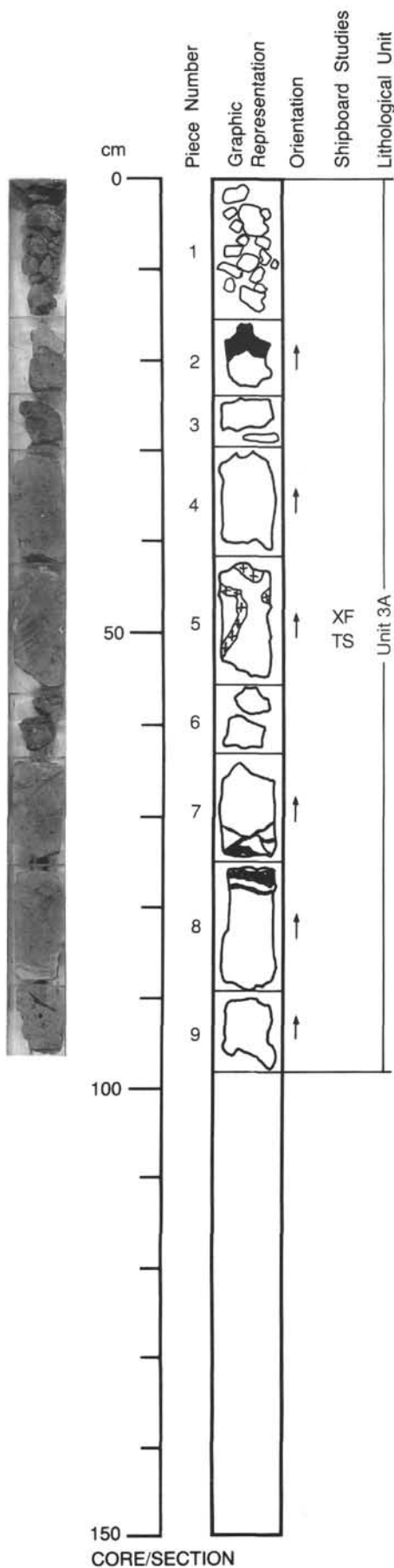
VESICLES: 10%; 1-3 mm; irregular; heterogeneous; generally filled by clays.



COLOR: Medium gray (N5).

STRUCTURE: Massive.

ALTERATION: Highly altered.

VEINS/FRACTURES: <1%; trace; irregular; black alteration veins/fractures.



-  Blue green clay vein filling
-  Highly brecciated with blue green clay filling

127-795B-36R-2

UNIT 3A: SPARSELY PYROXENE PLAGIOCLASE PHYRIC BASALT

Pieces 1-9

CONTACTS: None.

PHENOCRYSTS:

Pyroxene - 2%; <1 mm; anhedral-subhedral.
Plagioclase - <1%; <1 mm; subhedral, extensively altered.

GROUNDMASS: Fine-grained, microlitic.

VESICLES: 5-10%; <15 mm; round to slightly elongated; homogeneous; filled with 1) green clays (90% of vesicles), 2) outer rim of pale blue green clays and center with dark green clays (5%), and 3) totally filled by blue green silica (5%). Some vesicles are surrounded by pinkish alteration haloes.

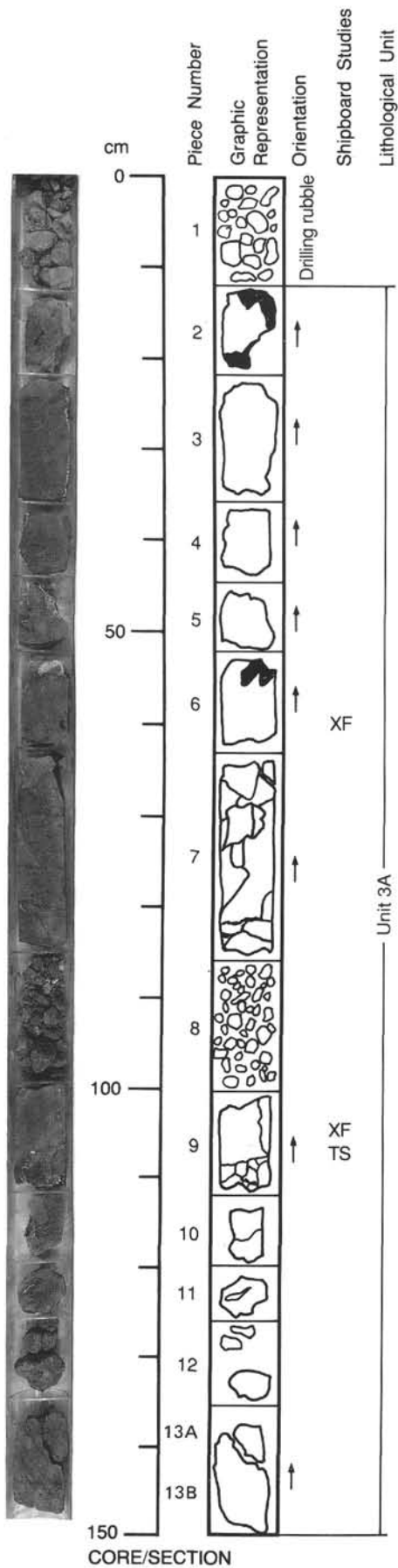
COLOR: Medium dark gray (N4).

STRUCTURE: Massive.

ALTERATION: Moderately altered.

VEINS/FRACTURES: 2%; <10 mm; irregular distributed; all fractures are filled (90% with blue green silica, 10% with green clays). There appear to be two generations of fracture fillings. A first generation contains blue green silica. A second generation contains green clays (mostly thin veins <1 mm). Zeolite fillings appear to cross-cut the first generation fillings (Piece 2).

ADDITIONAL COMMENTS: Sub-unit continued from 127-795B-36-1.



 Blue green chert

127-795B-37R-1

UNIT 3A: SPARSELY PYROXENE PLAGIOCLASE PHYRIC BASALT

Pieces 2-13B

CONTACTS: None.

PHENOCRYSTS:

Pyroxene - 3%; <1 mm; subhedral-anhedral.
Plagioclase - <1%; <1 mm; euhedral, altered.

GROUNDMASS: Fine-grained, microlitic.

VESICLES: 3-5%; <10 mm; round to lobate; homogeneous; partially to totally filled by pale green to dark green clays. The abundance of vesicles may reach 25% (Piece 2). A large vug from one side of Pieces 3 and 4. Several smaller vugs are also present in the same pieces. All vugs are filled with a mixture of a clear tabular zeolite (heulandite?) and platy soft chlorite.

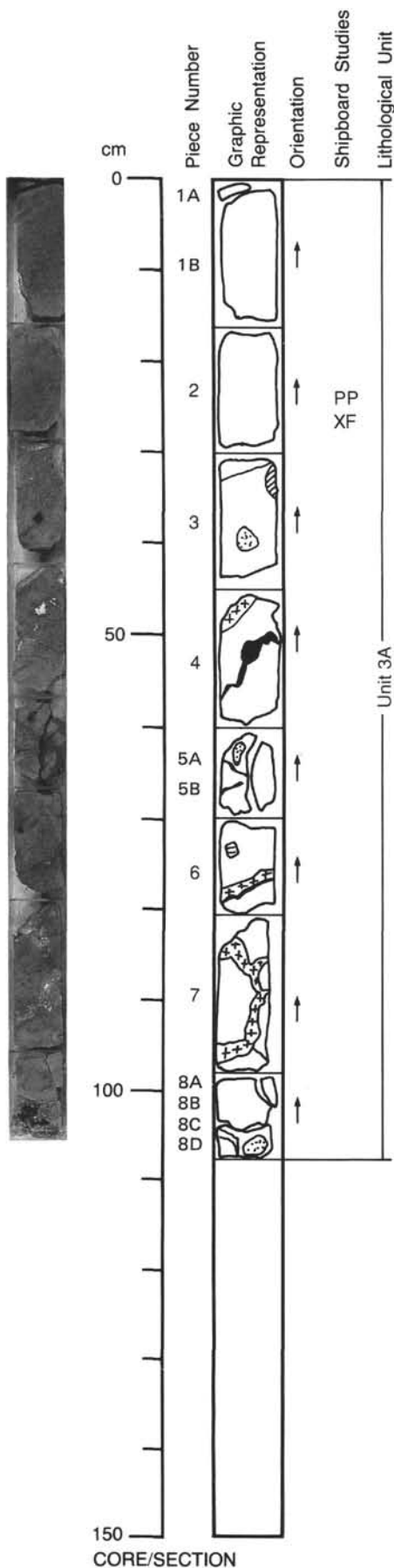
COLOR: Medium dark gray (N4).

STRUCTURE: Massive.

ALTERATION: Moderately altered.

VEINS/FRACTURES: <1%; <1 mm; random; filled by dark clays.

ADDITIONAL COMMENTS: Piece 1 is drilling rubble composed of fragments of dolomite, basalt, and pyrite rosettes. Sub-unit is continued from 127-795B-36R-2.



- Vein filled by zeolite and greenish clay and silica
- Vesicle or cavity
- Brecciated
- Light greenish gray (5G7/1) clay

127-795B-38R-1

UNIT 3A: SPARSELY PYROXENE PLAGIOCLASE PHYRIC BASALT

Pieces 1-8D

CONTACTS: None.

PHENOCRYSTS:

- Pyroxene - <2%; 1-2 mm; subhedral.
- Plagioclase - <1%; <3 mm; euhedral, highly altered.

GROUNDMASS: Fine-grained, microlitic.

VESICLES: 5%; 1-4 mm; irregular; heterogeneous; large vesicles/cavities up to 20 mm exist. Smaller vesicles are completely filled by light greenish clay minerals.

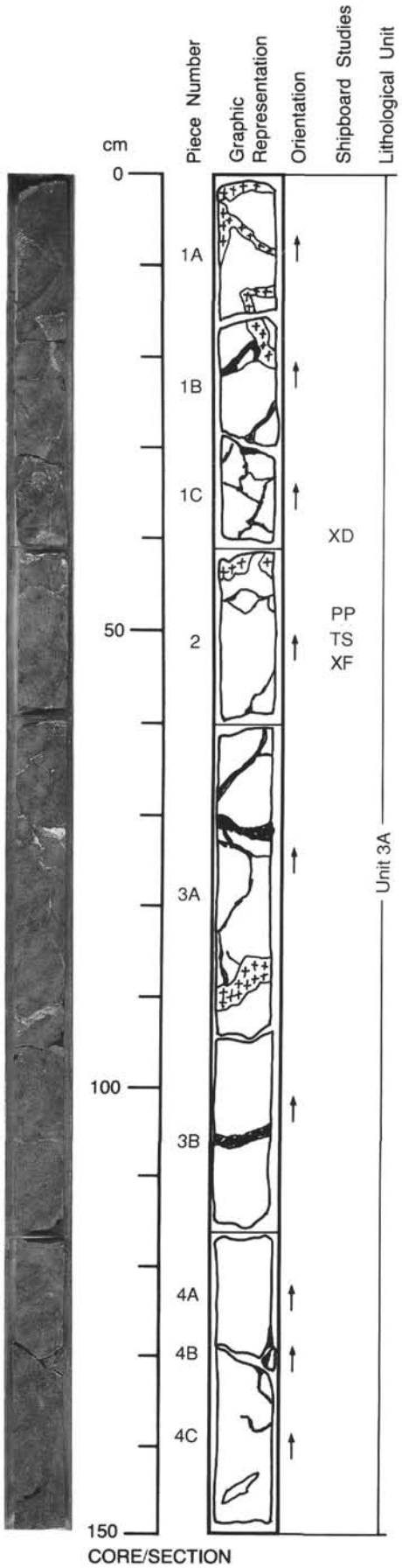
COLOR: Medium dark gray (N4).



STRUCTURE: Massive.

ALTERATION: Highly altered.

VEINS/FRACTURES: <5%; <1-10 mm; random; filled by dark greenish clays, zeolites, and silica.

ADDITIONAL COMMENTS: Sub-unit is continued from 127-795B-37R-1. Brecciated veins exists in Pieces 3 and 7. These veins consist of angular basalt fragments (0.5 to 10 mm) in a matrix totally composed of light greenish to dark greenish clays. Piece 8 contains large euhedral zeolites in a cavity (heulandite?).



 Brecciated
 Vein

127-795B-38R-2

UNIT 3A: SPARSELY PYROXENE PLAGIOCLASE PHYRIC BASALT

Pieces 1A-4C

CONTACTS: None.

PHENOCRYSTS:
 Pyroxene - <2%; 1 mm; subhedral-euhedral.
 Plagioclase - ?; <2 mm; euhedral, extensively altered.

GROUNDMASS: Fine-grained, microlitic.

VESICLES: 5-7%; <2 mm; round to irregular; homogeneous; filled by clays.

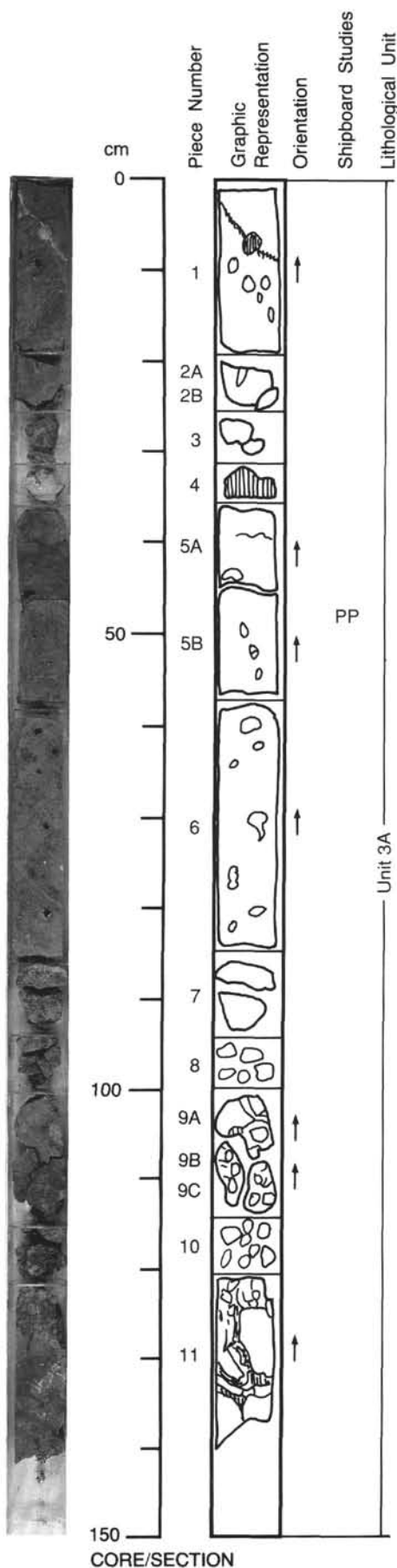
COLOR: Medium dark gray (N4).

STRUCTURE: Massive. Partly brecciated in Pieces 1A, 1B, and 3A. Matrix of brecciated veins are composed of silica and clays.

ALTERATION: Highly altered.

VEINS/FRACTURES: <5%; <5 mm; random; filled by clays, silica, and zeolites.

ADDITIONAL COMMENTS: Sub-unit continued from 127-795B-38R-1.



Chert



Vesicles filled by grayish green clays

127-795B-38R-3

UNIT 3A: SPARSELY PYROXENE PLAGIOCLASE PHYRIC BASALT

Pieces 1-6

CONTACTS: None.

PHENOCRYSTS:

Pyroxene - 1-2%; <1 mm; subhedral-anhedral.

Plagioclase - <1%; <2 mm; euhedral.

GROUNDMASS: Fine-grained, microlitic.

VESICLES: 5-10%; <20 mm, typically 5-8 mm; round to irregular; random; smaller vesicles are filled by greenish clays. Larger vesicles/vugs are partially filled.

COLOR: Medium dark gray (N4).

STRUCTURE: Massive.

ALTERATION: Moderately altered.

VEINS/FRACTURES: <1%; <1 mm; random; filled by dark clays.

ADDITIONAL COMMENTS: Sub-unit continued from 127-795B-38R-2.

UNIT 3A: BRECCIATED SPARSELY PYROXENE PLAGIOCLASE PHYRIC BASALT

Pieces 7-11

CONTACTS: None.

PHENOCRYSTS:

Pyroxene - 1-2%; <1 mm; subhedral-anhedral.

Plagioclase - <1%; <1 mm; euhedral, altered.

GROUNDMASS: Fine-grained, microlitic.

VESICLES: <10%; <1 mm; round to irregular; homogeneous; filled by greenish clays.

COLOR: Medium dark gray (N4).

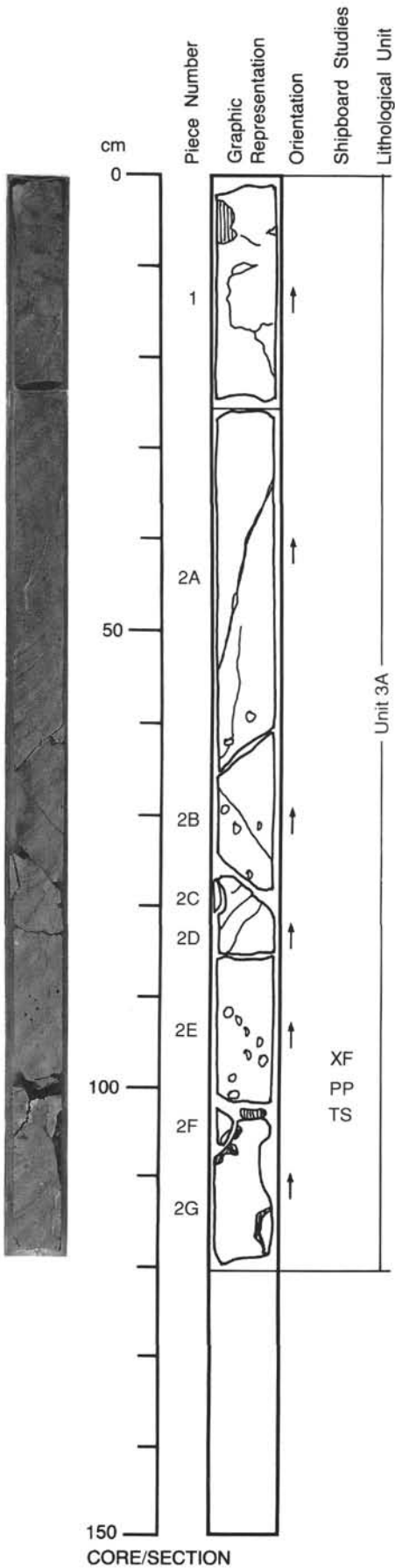
STRUCTURE: Brecciated.

ALTERATION: Highly altered.

VEINS/FRACTURES: <1%; <1 mm; irregular; filled by greenish black clays and zeolites.

ADDITIONAL COMMENTS: The matrix of the breccia is composed of fine-grained greenish clay material and zeolites.

CORE/SECTION



 Chert

127-795B-38R-4

UNIT 3A: SPARSELY PYROXENE PLAGIOCLASE PHYRIC BASALT

Pieces 1-2G

CONTACTS: None.

PHENOCRYSTS:

Pyroxene - 1-2%; <1 mm; subhedral-anhedral.

Plagioclase - <2%; <2 mm; euhedral.

GROUNDMASS: Fine-grained, microlitic.

VESICLES: 3-4%; <8 mm; round; homogeneous; completely to partially filled by clays.

COLOR: Medium dark gray (N4).

STRUCTURE: Massive.

ALTERATION: Highly altered.

VEINS/FRACTURES: <1-2%; <8 mm; irregular; filled by blackish clays and greenish siliceous material.

127-795B-38R-5

UNIT 3A: SPARSELY PYROXENE PLAGIOCLASE PHYRIC BASALT

Pieces 1A-1C

CONTACTS: None.

PHENOCRYSTS:

Pyroxene - 1-2%; <1 mm; subhedral-anhedral.
Plagioclase - <2%; <1 mm; euhedral, highly altered.

GROUNDMASS: Fine-grained, microlitic.

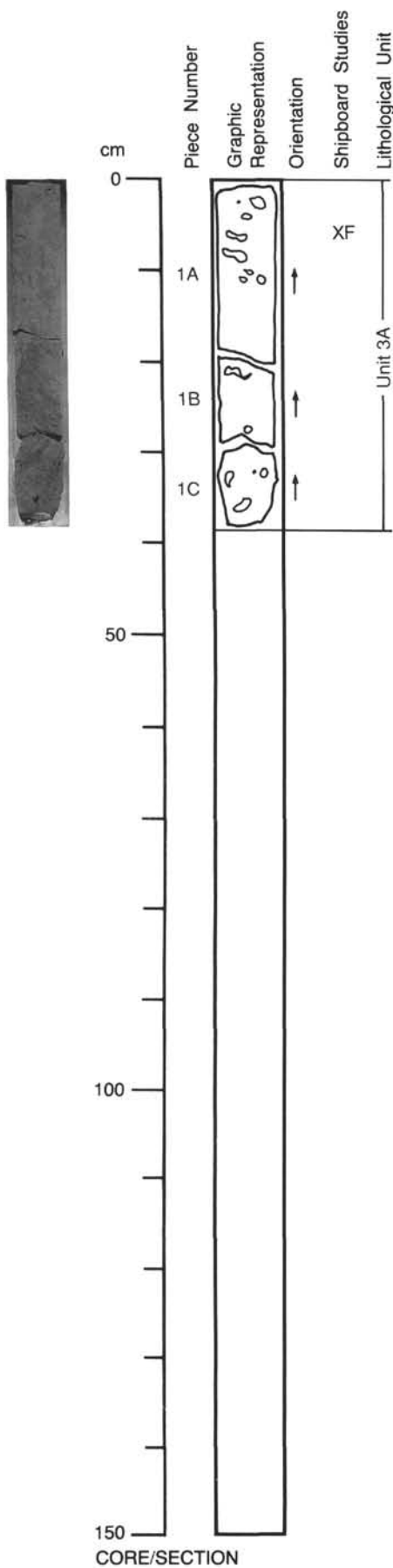
VESICLES: 3-4%; <10 mm; round to irregular; homogeneous; partially to completely filled by dark green clays.

COLOR: Medium dark gray (N4).

STRUCTURE: Massive.

ALTERATION: Highly altered.

VEINS/FRACTURES: <1%; <2 mm; random; filled by clays.



CORE/SECTION

127-795B-39R-1

UNIT 3A: SPARSELY PYROXENE PLAGIOCLASE PHYRIC BASALT

Pieces 1-10

CONTACTS: Lower contact gradational.

PHENOCRYSTS:

Pyroxene - 2%; <2 mm; subhedral-anhedral.

Plagioclase - <1%; <2 mm; euhedral.

GROUNDMASS: Fine-grained, microlitic.

VESICLES: 2%; 1-4 mm; round; random; filled by greenish clay minerals.

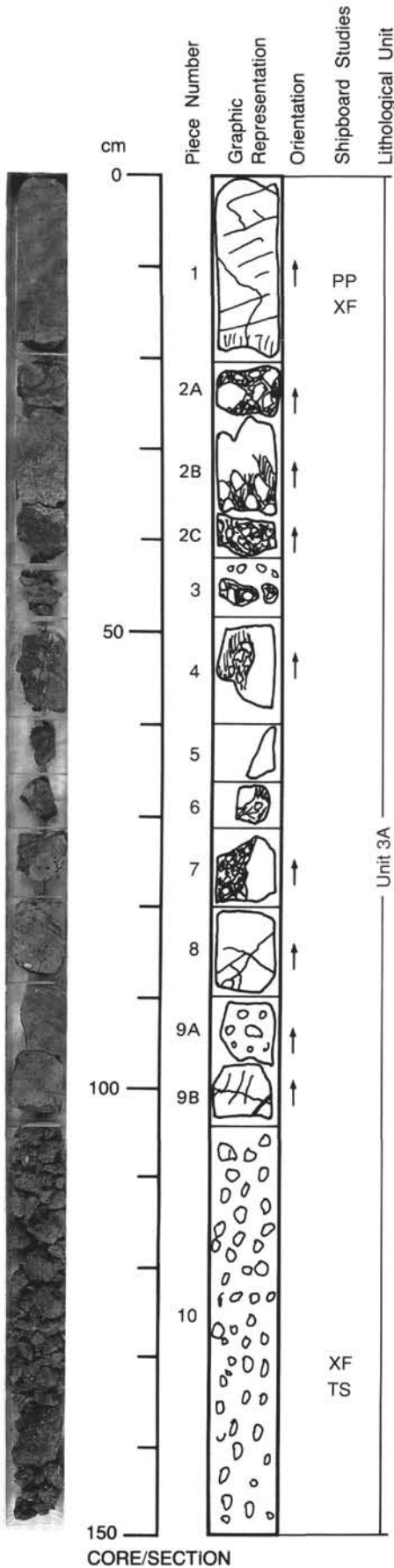
COLOR: Medium dark gray (N4).

STRUCTURE: Brecciated.

ALTERATION: Highly altered.

VEINS/FRACTURES: 1%; <1 mm; slightly inclined to the length of core; filled by dark green clays.

ADDITIONAL COMMENTS: Pieces 1 (0-17cm), 8, and 9 are massive, Pieces 2-7 are brecciated. Piece 10 occurs as rubble. The breccia has two components; dominantly angular basaltic fragments and a matrix composed of a fine-grained dark clay-like material. There is a complete range in the size of the basaltic fragments from > 10 cm to < 1 mm. Piece 3 is rubble containing fragments of claystone, pyrite, and brecciated basalts similar to the rest of the sub-unit.



127-795B-39R-2

**UNIT 3A: HIGHLY VESICULAR SPARSELY PYROXENE
PLAGIOCLASE PHYRIC BASALT**

Pieces 1A, 1B

CONTACTS: None.

PHENOCRYSTS:

Pyroxene - 1%; <1; subhedral-anhedral.

Plagioclase - <1%; <1; euhedral-subhedral.

GROUNDMASS: Fine-grained, microlitic.

VESICLES: 20-30%; <2 mm; round; homogeneous; partially filled by dark green clays.

Piece 1B contains a higher abundance of unfilled or partially unfilled vesicles.

COLOR: Medium dark gray (N4).

STRUCTURE: Massive.

ALTERATION: Highly altered.

VEINS/FRACTURES: Trace; <1 mm; random; filled by dark clays and sometimes zeolites.

ADDITIONAL COMMENTS: Irregular cavities are filled by zeolites. Sub-unit is highly vesicular in this section.

**UNIT 3B: BRECCIATED SPARSELY PYROXENE
PLAGIOCLASE PHYRIC BASALT**

Piece 2

CONTACTS: None.

PHENOCRYSTS:

Pyroxene - 1-2%; <1 mm; subhedral-anhedral.

Plagioclase - <1%; <1 mm; subhedral.

GROUNDMASS: Fine-grained, microlitic.

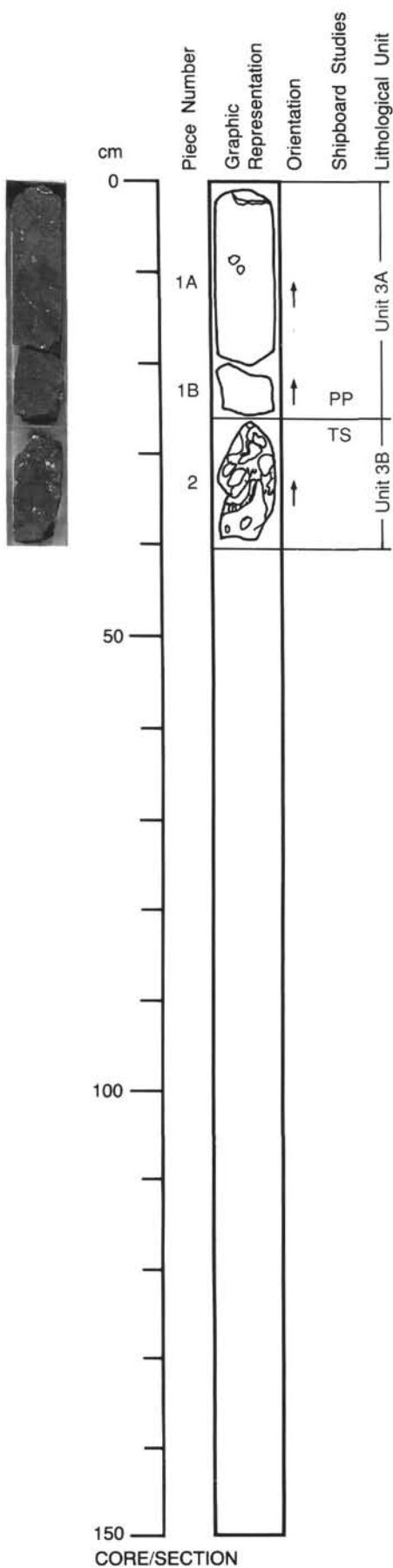
VESICLES: 20%; <2 mm; round; homogeneous; mostly filled by clays.

COLOR: Medium dark gray (N4).

STRUCTURE: Brecciated.

ALTERATION: Both matrix and basalt fragments are highly altered.

VEINS/FRACTURES: <1%; trace; random; filled by dark clays.



127-795B-40R-1

**UNIT 3B: BRECCIATED SPARSELY PYROXENE
PLAGIOCLASE PHYRIC BASALT**

Pieces 1-5C

CONTACTS: None.

PHENOCRYSTS:

Plagioclase - <1%; <1 mm; euhedral-subhedral.

Pyroxene - 1%; <1 mm; subhedral.

GROUNDMASS: Fine-grained, microlitic.

VESICLES: 20-30%; <2 mm; round; homogeneous; filled by clays.

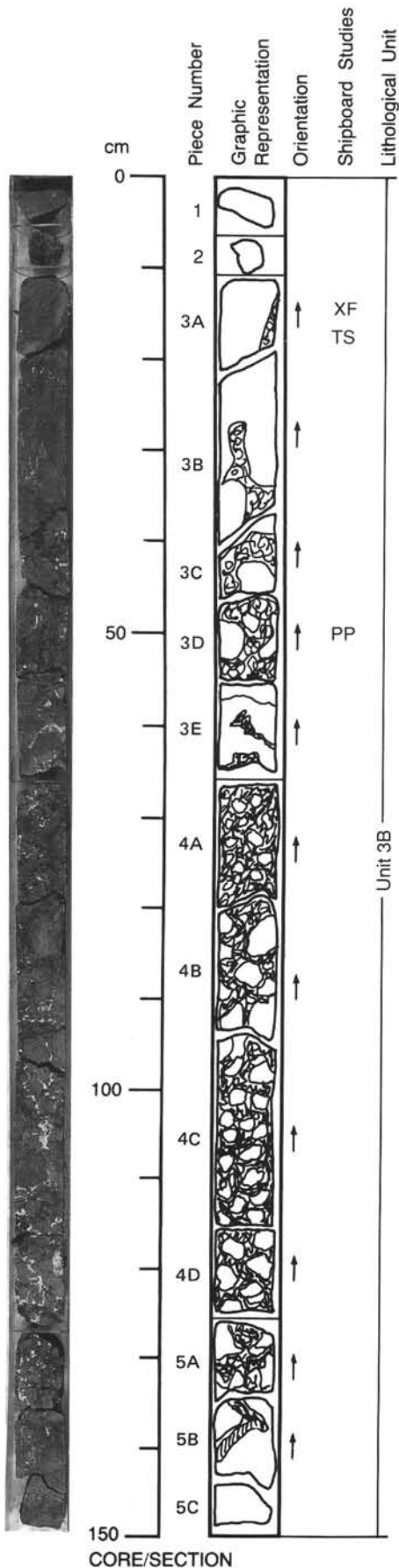
COLOR: Medium dark gray (N4).

STRUCTURE: Brecciated.

ALTERATION: Highly altered to secondary minerals. The finer grained matrix is more highly altered than the larger basaltic fragments.

VEINS/FRACTURES: <2%; <1 mm; random; filled by dark clays. Zeolites appear in some fractures/cavities particularly below 65 cm.

ADDITIONAL COMMENTS: The maximum size of the basaltic fragments range widely from a maximum of 10-15 cm to well below 1 cm.



CORE/SECTION

127-795B-40R-2

**UNIT 3B: BRECCIATED SPARSELY PYROXENE
PLAGIOCLASE PHYRIC BASALT**

Pieces 1-13

CONTACTS: None.

PHENOCRYSTS:

Plagioclase - <1%; <1 mm; euhedral-subhedral.

Pyroxene - 1%; <1 mm; subhedral.

GROUNDMASS: Fine-grained, microlitic.

VESICLES: 20%; <2 mm; round; homogeneous; filled by clays. Zeolites appear in some cavities in the matrix.

COLOR: Medium dark gray (N4).

STRUCTURE: Brecciated.

ALTERATION: Both matrix and basaltic fragments are highly altered.

VEINS/FRACTURES: Not seen.



CORE/SECTION

127-795B-40R-3

**UNIT 3B: BRECCIATED SPARSELY PYROXENE
PLAGIOCLASE PHYRIC BASALT**

Pieces 1-2

CONTACTS: None.

PHENOCRYSTS:

Pyroxene - 1%; <2 mm; anhedral.

Plagioclase - <1%; <2 mm; euhedral.

GROUNDMASS: Fine-grained.

VESICLES: 10%; <1 mm; round to irregular; random; filled by clays.

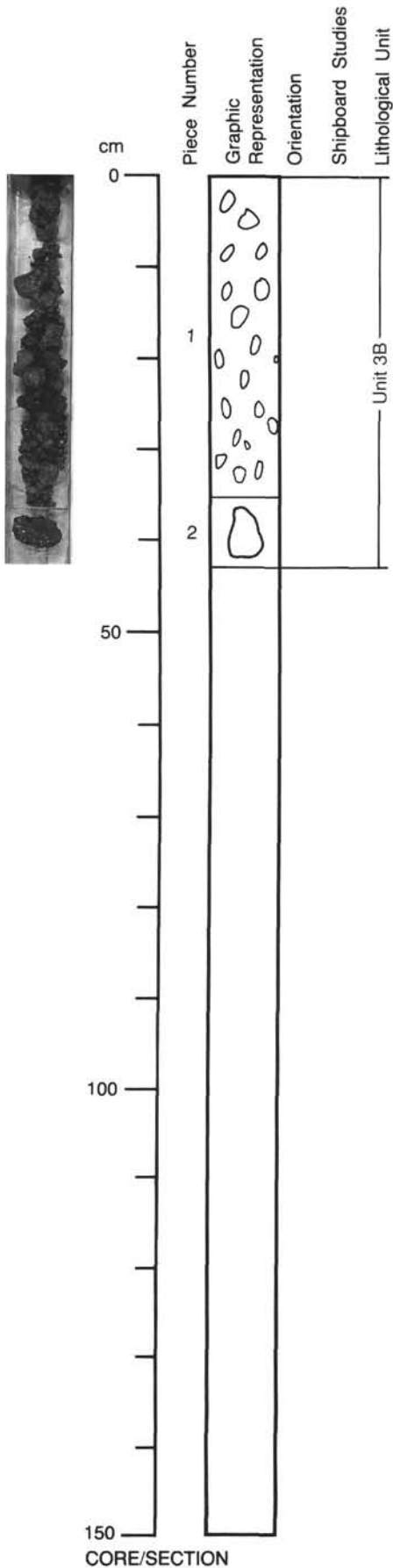
COLOR: Medium dark gray (N4).

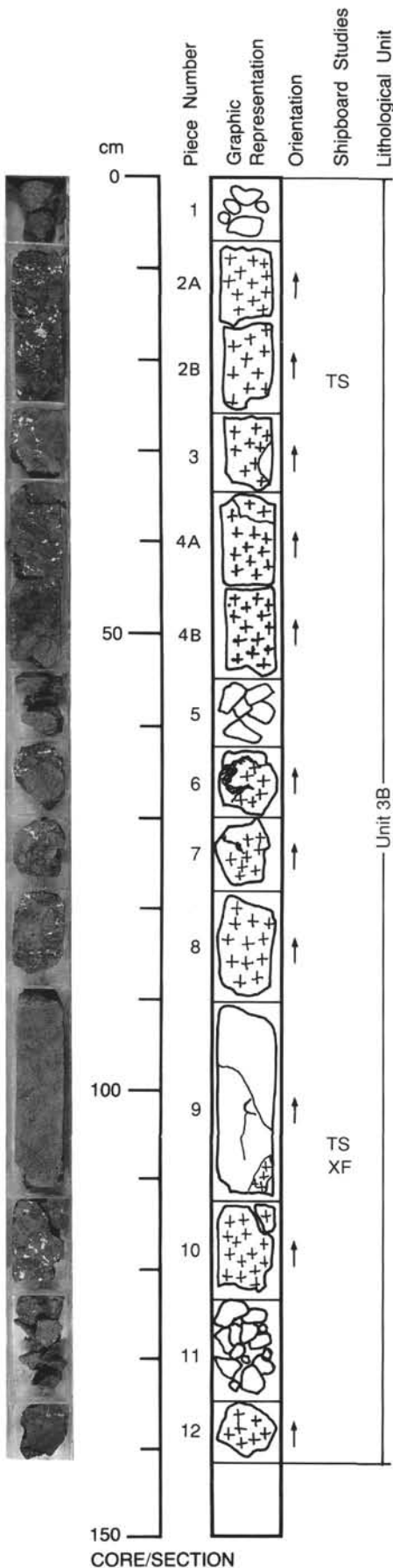
STRUCTURE: Brecciated.

ALTERATION: Highly altered.

VEINS/FRACTURES: Not observed.

ADDITIONAL COMMENTS: The basaltic fragments are mostly below 10 mm in diameter and angular in form.





 Brecciated

 Vein

127-795B-41R-1

**UNIT 3B: BRECCIATED SPARSELY PYROXENE
PLAGIOCLASE PHYRIC BASALT**

Pieces 1-12

CONTACTS: None.

PHENOCRYSTS:

Pyroxene - <2%; 1 mm; subhedral.

Plagioclase - trace; 1 mm; euhedral.

GROUNDMASS: Fine-grained, microlitic.

VESICLES: 15-20%; 0.5-8 mm; round to irregular; homogeneous; filled by clays and zeolites.

COLOR: Medium dark gray (N4).

STRUCTURE: Brecciated.

ALTERATION: Highly altered.

VEINS/FRACTURES: Trace; <0.5 mm; irregular; filled by greenish clays.

ADDITIONAL COMMENTS: The breccia has two components: 1) Angular basalt fragments and 2) Fine-grained matrix of greenish clays and zeolites. Individual fragments range from <10 mm to 20 cm.

127-795B-41R-2

**UNIT 3B: BRECCIATED SPARSELY PYROXENE
PLAGIOCLASE PHYRIC BASALT**

Pieces 1-10

CONTACTS: None.

PHENOCRYSTS:

Pyroxene - 1%; 1 mm; subhedral.

Plagioclase - <1%; <2 mm; euhedral.

GROUNDMASS: Fine-grained, microlitic.

VESICLES: 15%; <2 mm; round; homogeneous; rimmed to filled by green clays.

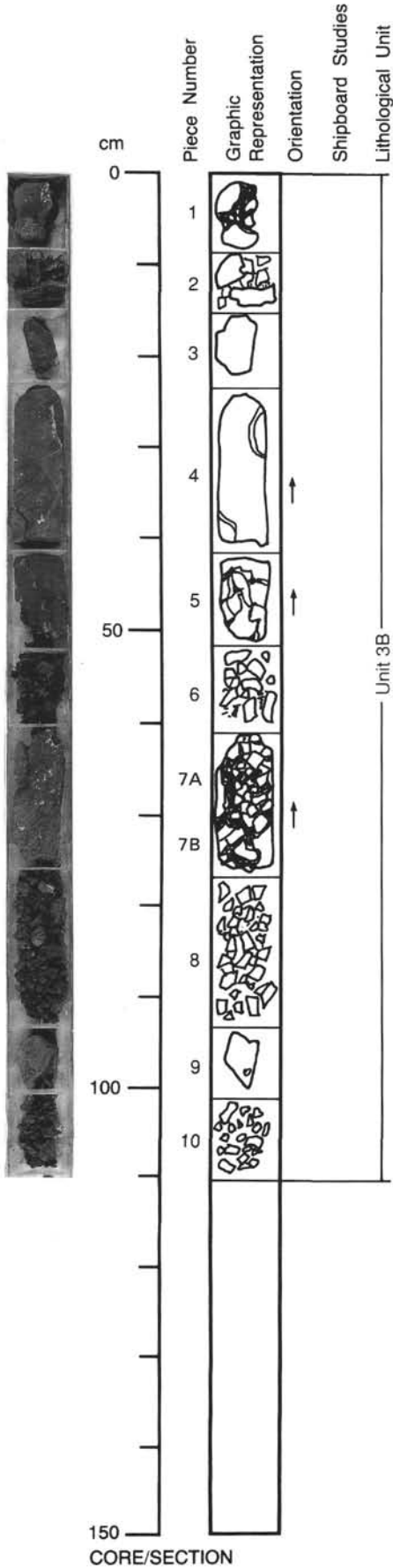
COLOR: Medium dark gray (N4).

STRUCTURE: Brecciated.

ALTERATION: Highly altered.

VEINS/FRACTURES: Trace; <1 mm; random; filled by dark clays.

ADDITIONAL COMMENTS: The breccia is characterized by angular basalt clasts surrounded by a matrix of green clays and zeolites. The matrix may form up to 20% of the rock. Pieces 2, 6, 8, and 10 are basalt rubble.



CORE/SECTION

127-795B-34R-01 (Piece 1A,96-98 cm)

WHERE SAMPLED: Interior of breccia clast, Unit 1

ROCK NAME: MODERATELY PLAGIOCLASE PYROXENE PHYRIC BASALTIC ANDESITE

GRAIN SIZE: Fine-grained

TEXTURE: Porphyritic with microcrystalline interstitial groundmass

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	7	7	0.3-1		euohedral-anhedral	Occasionally as glomerophenocryst with augite and magnetite. Sometimes has dusty core (altered)
Augite	1	5	0.3-1		subhedral-anhedral	Occasionally altered
Magnetite	2	2	0.3		subhedral-anhedral	
GROUNDMASS						
Plagioclase	30	40	< 0.3		lath-shaped	Partially altered
Augite	trace	trace	< 0.1		subhedral-anhedral	Partially altered
Magnetite	5	5	< 0.3		subhedral-anhedral	
Mesostasis	0	30				Totally altered
SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING				COMMENTS
Clay minerals	< 40	plagioclase, augite, mesostasis, vesicle			Green to brown	
VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)		FILLING	SHAPE
Vesicle	5	random	0.2-5		clays	round-irregular

COMMENTS: Highly altered. No piece numbers.

127-795B-35R-01 (Piece 4,53-54 cm)

WHERE SAMPLED: Interior of breccia clast, Unit 1

ROCK NAME: HIGHLY PLAGIOCLASE PYROXENE PHYRIC BASALTIC ANDESITE

GRAIN SIZE: Fine-grained

TEXTURE: Porphyritic with microcrystalline interstitial groundmass

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	7	7	0.3-1		euohedral-subhedral	Occasionally occur as glomerophenocrysts with augite and magnetite
Augite	1	3	0.3-1		subhedral-anhedral	Sometimes totally altered
Magnetite	< 1	< 1	0.3		subhedral	
GROUNDMASS						
Plagioclase	50	50	< 0.3		lath-shaped	Slightly altered
Augite	<1	3	< 0.3		subhedral	Generally altered to clay
Magnetite	3	3	< 0.3		subhedral	
Mesostasis	0	30				Totally altered to clay
SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING				COMMENTS
Clay minerals	40	augite, mesostasis, and vesicle			Green (celadonite?) to brown	
VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)		FILLING	SHAPE
Vesicle	5	random	0.5-2		clay	irregular

COMMENTS: Highly altered

SITE 795

127-795B-36R-02 (Piece 5,49-51 cm)

WHERE SAMPLED: Massive lava of Unit 3 A

ROCK NAME: MODERATELY PLAGIOCLASE PYROXENE PHYRIC BASALT

GRAIN SIZE: Fine-grained

TEXTURE: Porphyritic with microcrystalline interstitial groundmass

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	1	5	0.5-1		euohedral	Often glomerophenocrystic, cores are highly altered
Augite	5	5	0.5-1		subhedral	Sometimes as glomerophenocrysts with plagioclase
Olivine	0	trace	1-2		euohedral	Completely replaced by clays
GROUNDMASS						
Plagioclase	40	40	<0.3		lath-shaped	Slightly altered
Augite	15	15	<0.1		subhedral-anhedral	Slightly altered
Mesostasis	0	30				Totally altered to clay
SECONDARY MINERALOGY						
	PERCENT	REPLACING/FILLING				COMMENTS
Clay mineral	10	plagioclase and vesicle			Green celadonite	
Clay mineral	30	mesostasis and vesicle			Brown to green	
VESICLES/CAVITIES						
	PERCENT	LOCATION	SIZE (mm)		FILLING	SHAPE
Vesicles	10	random	<5		clays	irregular-lobate

127-795B-37R-01 (Piece 9,105-107 cm)

WHERE SAMPLED: Massive lava of Unit 3 A

ROCK NAME: MODERATELY PLAGIOCLASE PYROXENE PHYRIC BASALT

GRAIN SIZE: Fine-grained

TEXTURE: Porphyritic with microcrystalline interstitial groundmass

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	1	3	0.5-1.5		euohedral	Often glomerophenocrystic, cores are highly altered to clay
Augite	3	3	0.5-1		subhedral	
GROUNDMASS						
Plagioclase	50	50	<0.2		lath-shaped	Slightly altered
Augite	5	5	<0.1		subhedral-anhedral	Slightly altered
Mesostasis	0	30				Totally altered
SECONDARY MINERALOGY						
	PERCENT	REPLACING/FILLING				COMMENTS
Clay minerals	30-40	all phases, including mesostasis				
VESICLES/CAVITIES						
	PERCENT	LOCATION	SIZE (mm)		FILLING	SHAPE
Vesicles	10	random	0.2-2		green clay minerals	round, irregular, lobate

127-795B-38R-02 (Piece 2,51-53 cm)

WHERE SAMPLED: Massive lava of Unit 3 A

ROCK NAME: MODERATELY PLAGIOCLASE PYROXENE PHYRIC BASALT

GRAIN SIZE: Fine-grained

TEXTURE: Porphyritic with microcrystalline interstitial groundmass

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	1	5	0.3-2		euhedral-subhedral	Cores are altered to clay Often glomerophenocrystic
Augite	5	5	0.1-0.5		subhedral	
GROUNDMASS						
Plagioclase	50	50	<0.2		lath-shaped	Slightly altered
Augite	5	5	<0.1		subhedral	Slightly altered
Mesostasis	0	30				Completely altered to clays

SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING	COMMENTS
Clay minerals	30-35	all phases, mesostasis, and vesicles	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	5	random	<0.5	green clays	irregular

127-795B-38R-04 (Piece 2E,99-101 cm)

WHERE SAMPLED: Interior of massive lava of UNIT 3 A

ROCK NAME: MODERATELY PYROXENE PLAGIOCLASE PHYRIC BASALT

GRAIN SIZE: Fine-grained

TEXTURE: Porphyritic with microcrystalline interstitial groundmass

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Augite	2	2	0.5-2		subhedral-anhedral	Often as glomerophenocrysts
Plagioclase	1	1	0.7-2		euhedral, tabular	Cores are highly to totally altered to green clays, zoned rims are preserved
GROUNDMASS						
Plagioclase	50	50	<0.2		lath-shaped	
Augite	5	5	<0.5		subhedral-anhedral	
Mesostasis	0	35			irregular	Altered to dark brown secondary minerals (clays?)

SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING	COMMENTS
Clay minerals	35-40	plagioclase, mesostasis, and vesicles	Dark brown clays replace mesostasis; green clays replace plagioclase cores; pale brown clays rim vesicles which are filled with green clays

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE	COMMENTS
Vesicles	5	random	<4	clays	round	Vesicles are rimmed with brown clays and filled with green (celadonic?) clays

COMMENTS: Moderately to highly altered

SITE 795

127-795B-39R-01 (Piece 10,131-133 cm)

WHERE SAMPLED: Interior of breccia clast, UNIT 1

ROCK NAME: MODERATELY PLAGIOCLASE PYROXENE PHYRIC BASALT

GRAIN SIZE: Fine-grained

TEXTURE: Porphyritic with microcrystalline interstitial groundmass

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	<1	2	1-2		euohedral-subhedral	Cores are highly altered. Occasionally occur as glomerophenocrysts with augite
Augite	1	2	0.5-1.5		subhedral	Occasionally totally altered
GROUNDMASS						
Plagioclase	40	50	< 0.5		lath-shaped	Partially altered
Augite	< 5	< 5	< 0.3		subhedral	Partially altered
Mesostasis	0	20				Totally altered
SECONDARY MINERALOGY						
Clay mineral	15		REPLACING/ FILLING plagioclase, vesicle		Green (celadonite?)	COMMENTS
Clay minerals	40		plagioclase, augite, mesostasis, vesicle		Brown to green	
VESICLES/CAVITIES						
Vesicle	PERCENT 20	LOCATION random	SIZE (mm) 0.2 to 2	FILLING clays	SHAPE round-irregular	

COMMENTS: Highly altered

127-795B-39R-02 (Piece 1B,22-24 cm)

WHERE SAMPLED: Interior of massive lava of UNIT 3 A

ROCK NAME: MODERATELY PYROXENE PLAGIOCLASE PHYRIC BASALT

GRAIN SIZE: Fine-grained

TEXTURE: Porphyritic with microcrystalline interstitial groundmass

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Augite	2	2	0.3-1		subhedral-anhedral	Frequently occur as glomerophenocrysts
Plagioclase	<<1	1	0.5-1		euohedral, prismatic	Cores are totally altered to clays
GROUNDMASS						
Plagioclase	35	35	<0.5		lath-shaped	Cores are slightly altered to clays
Augite	5	5	<0.1		anhedral	
Mesostasis	0	35				Altered to brown clays with minor bright green celadonite(?)
SECONDARY MINERALOGY						
Clay minerals	PERCENT		REPLACING/ FILLING plagioclase cores, mesostasis, vesicles			COMMENTS
VESICLES/CAVITIES						
Vesicles	PERCENT 20	LOCATION random	SIZE (mm) <2	FILLING clays	SHAPE round	COMMENTS Vesicles are rimmed with greenish-brown clays and filled with green (celadonitic?) clays

127-795B-40R-01 (Piece 3A,15-17 cm)

WHERE SAMPLED: Interior of breccia clast, UNIT 3B

ROCK NAME: SPARSELY PYROXENE PLAGIOCLASE PHYRIC BASALT

GRAIN SIZE: Fine-grained

TEXTURE: Porphyritic with microcrystalline interstitial groundmass

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Augite	1	1	0.5		subhedral	Commonly occur as glomerophenocrysts, sometimes form glomeroporphyritic cluster with plagioclase
Plagioclase	trace	1	0.5-1		euohedral-subhedral	Cores are highly altered to clays
GROUNDMASS						
Plagioclase	50	50	<0.3		lath-shaped	Slightly altered
Augite	2	2	<0.3		subhedral	Slightly altered
Mesostasis	0	30				Totally altered to clays
SECONDARY MINERALOGY						
	PERCENT	REPLACING/ FILLING				COMMENTS
Clay mineral	15	plagioclase, vesicles			Green (celadonite?)	
Clay mineral	30	primary minerals, mesostasis, vesicle			Brown, cryptocrystalline	
VESICLES/CAVITIES						
	PERCENT	LOCATION	SIZE (mm)		FILLING	SHAPE
Vesicle	15	random	0.2-2		clays	round-irregular

COMMENTS: Highly altered

127-795B-40R-02 (Piece 13,123-125 cm)

WHERE SAMPLED: Interior of breccia clast, UNIT 3 B

ROCK NAME: SPARSELY PYROXENE PHYRIC BASALT

GRAIN SIZE: Fine-grained

TEXTURE: Porphyritic with microcrystalline interstitial groundmass

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Augite	1	1-2	0.5-1		euohedral-subhedral	Commonly occur as glomerophenocrysts, sometimes form glomeroporphyritic cluster with plagioclase
Plagioclase	trace	1	1-2		euohedral-subhedral	Cores are highly altered to clays
GROUNDMASS						
Plagioclase	60	60	<0.3		lath-shaped	Slightly altered
Augite	3	3	<0.3		subhedral	Slightly altered
Mesostasis	0	30				Totally altered to clays
SECONDARY MINERALOGY						
	PERCENT	REPLACING/ FILLING				COMMENTS
Clay mineral	15	plagioclase and vesicles			celadonite?	
Clay mineral	30	primary minerals, mesostasis, vesicle			brown cryptocrystalline material	
VESICLES/CAVITIES						
	PERCENT	LOCATION	SIZE (mm)		FILLING	SHAPE
Vesicle	15	random	0.1-3		clay	round to irregular

COMMENTS: Highly altered

SITE 795

127-795B-41R-01 (Piece 2B,22-24 cm)

WHERE SAMPLED: In breccia of Unit 3 B

ROCK NAME: Moderately plagioclase pyroxene phyric basalt

GRAIN SIZE: Fine-grained to microcrystalline

TEXTURE: Porphyritic with intersertal groundmass; vesicular and brecciated

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	1-2	1-2	<2		euhedral	Sometimes moderately altered
Augite	1-2	1-2	<1.2		subhedral	
GROUNDMASS						
Plagioclase	30	35	<0.5		lath-shaped	Sometimes slightly altered
Augite	5	5	<0.5		anhedral-subhedral	
Mesostasis	0	30				Totally altered

VESICLES/CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE	COMMENTS
Vesicles	20-25	homo-geneous	<1	silica, clays	round	Filled with yellow-brown cryptocrystalline material
Matrix	?	between rock pieces	<10-120	clays, zeolites, silica	irregular	May originally in part have been voids; often show pattern of green, celadonic? clays rimming outside, zeolites inside

COMMENTS: Rock is breccia composed of pieces of basalt.

127-795B-41R-01 (Piece 9,107-109 cm)

WHERE SAMPLED: Massive piece of UNIT 3 B

ROCK NAME: SPARSELY PYROXENE PLAGIOCLASE PHYRIC BASALT

GRAIN SIZE: Fine-grained

TEXTURE: Porphyritic with microcrystalline interstitial groundmass

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Augite	1	1	0.3-1		euhedral-subhedral	Occasionally occur as glomerophenocrysts Cores are highly to totally altered to green and brown clays. Some grains occur with pyroxene in glomerophenocrysts
Plagioclase	<<1	1	0.5-2		euhedral-subhedral	
GROUNDMASS						
Plagioclase	30	30	<0.5		Lath-shaped	Slightly altered
Augite	2	2	<0.1		subhedral-anhedral	Slightly altered
Mesostasis	0	35				Altered to brown clays
SECONDARY MINERALOGY	PERCENT	REPLACING/FILLING				COMMENTS
Clay minerals		plagioclase cores, mesostasis, vesicles				

VESICLES/CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE	COMMENTS
Vesicles	30	random	<3	totally filled	round	Three different fillings in vesicles: outer rim is very pale brown clays(?), inner rim is pale brown clays, core is filled with green pleochroic (celadonic?) clays