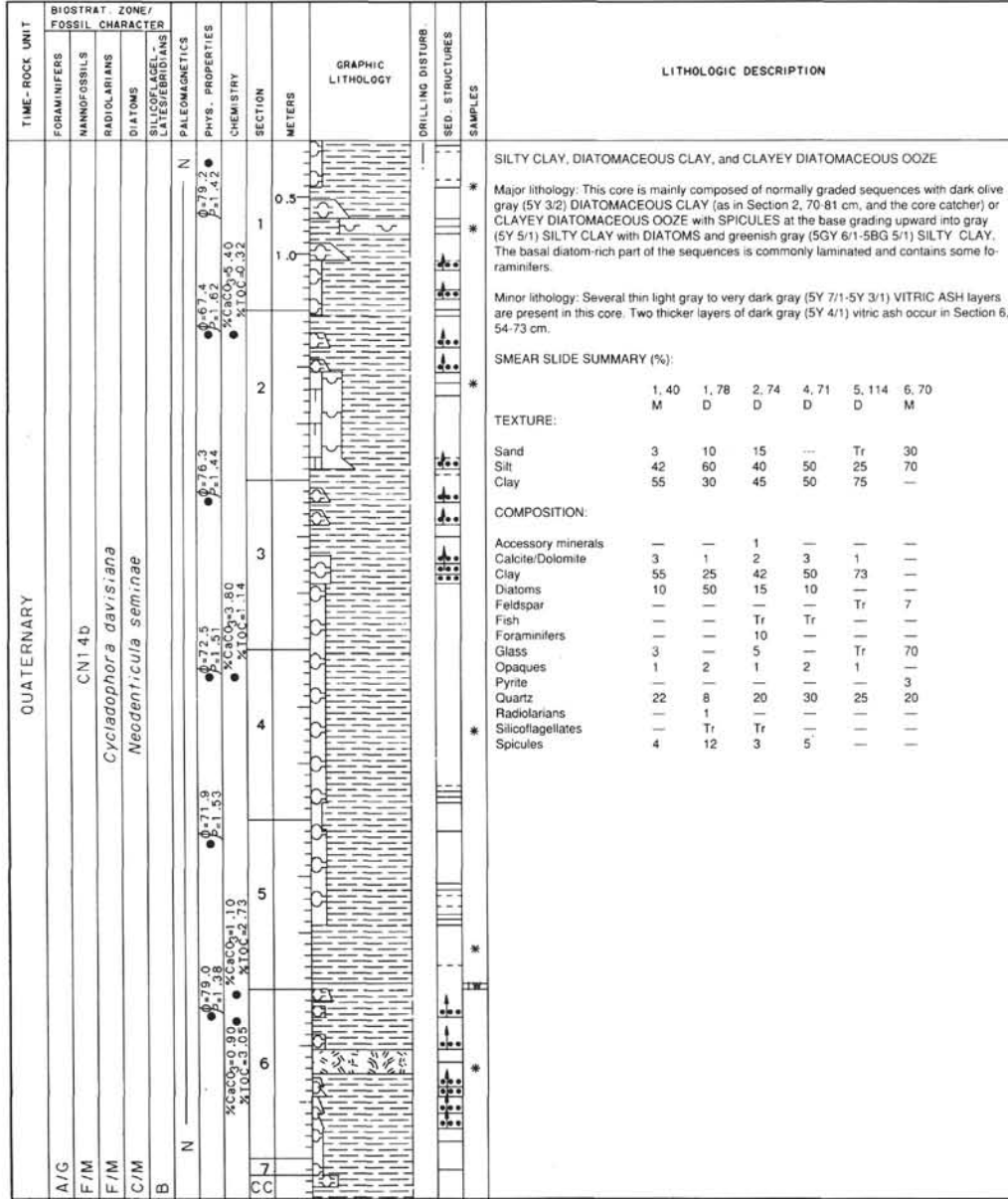


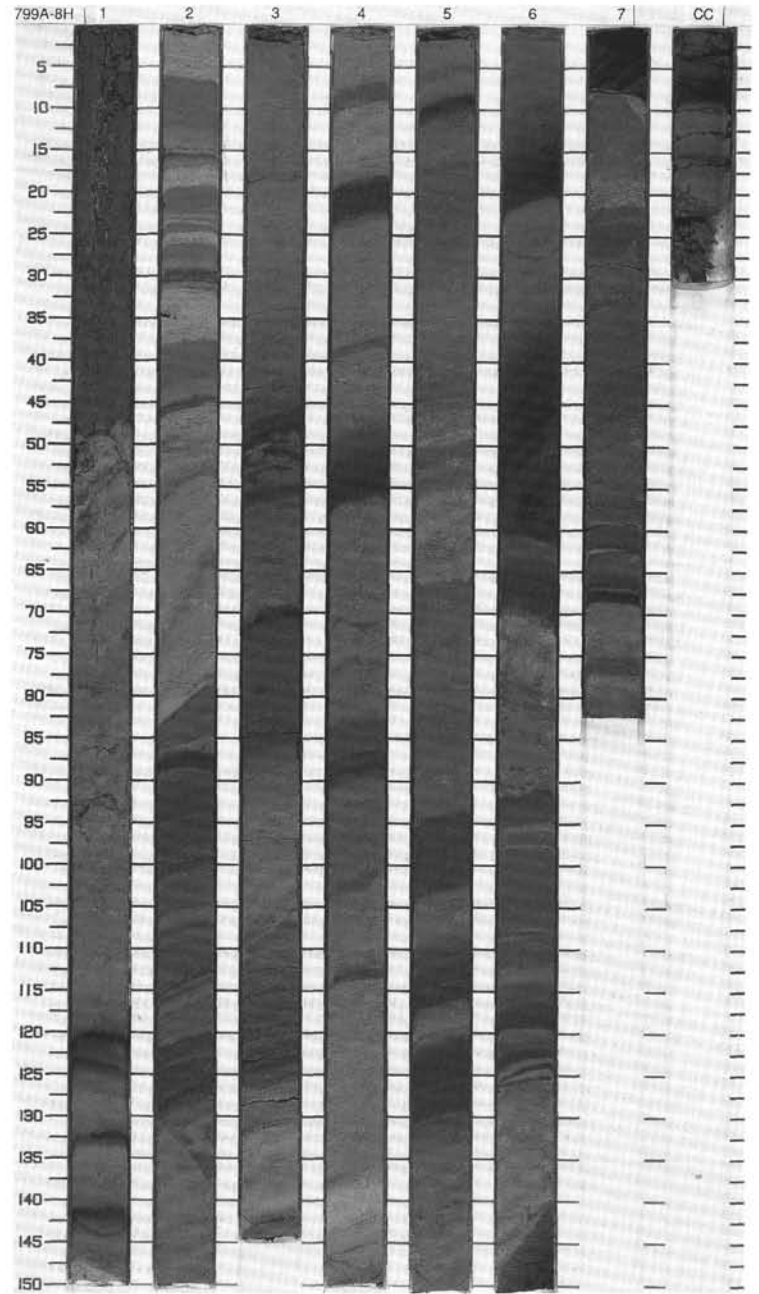
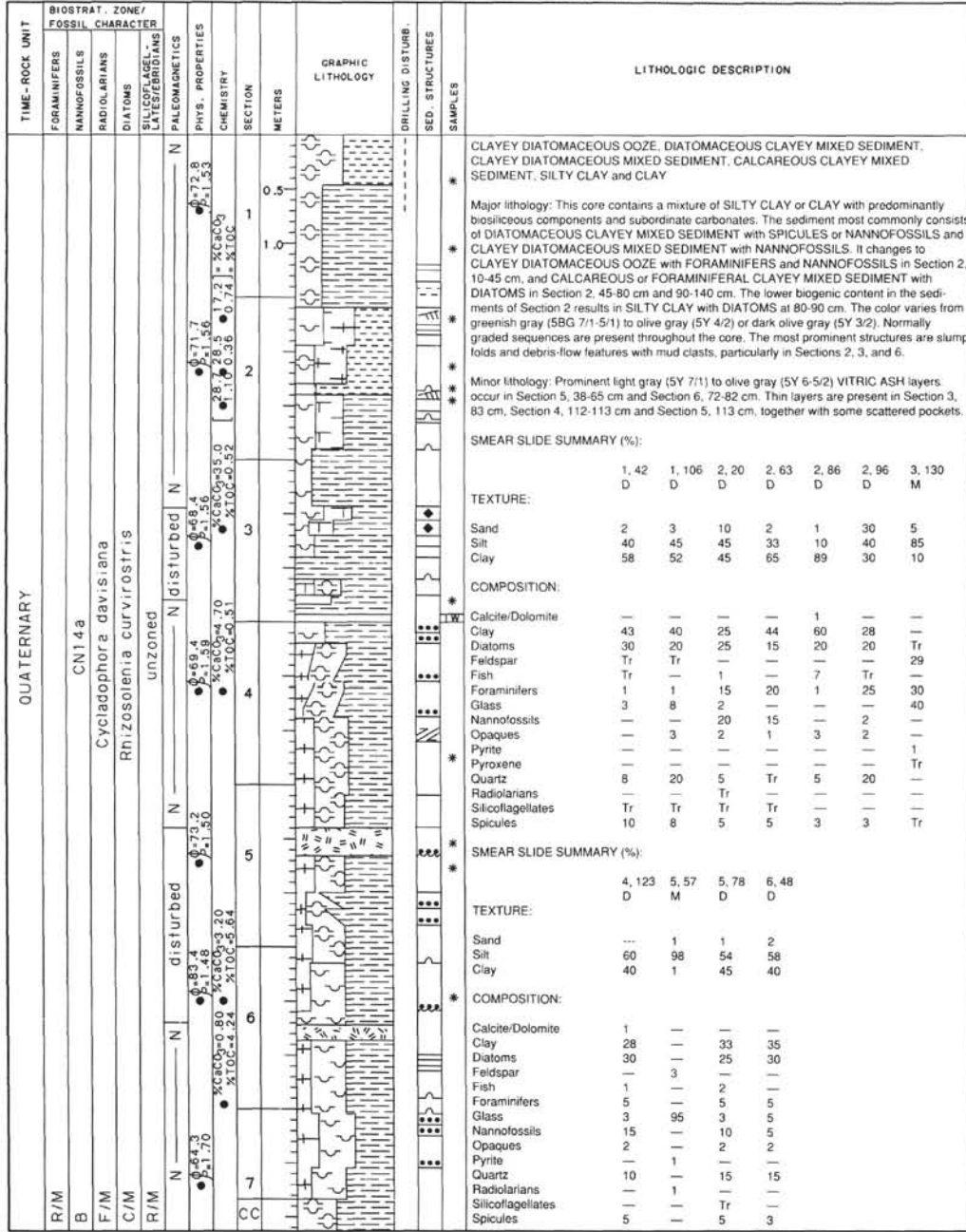
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																
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QUATERNARY														<p>CLAYEY DIATOMACEOUS MIXED SEDIMENT, DIATOMACEOUS CLAYEY MIXED SEDIMENT, and BIOSILICEOUS OOZE</p> <p>Major lithology: This core contains mainly CLAYEY DIATOMACEOUS MIXED SEDIMENT with SPICULES and SILT and DIATOMACEOUS CLAYEY MIXED SEDIMENT with SILT in Section 1, 0-103 cm. The upper 23 cm exhibits centimeter scale color banding. 0 to 4 cm is very dark grayish brown (10YR 3/2); 4 to 7 cm is black (10YR 2/1); 7 to 14 cm is very dark grayish brown (10YR 3/2); 14 to 17 cm has faint finer color bands of alternating black (10YR 2/1) and very dark grayish brown (10YR 3/2); 17-19 cm is black (10YR 2/1); 19-21 cm is very dark gray (5Y 3/1); 21-23 cm is black (10YR 2/1). The remainder of the core is homogeneous and very dark gray (5Y 3/1). Silt-sized and fine sand-sized quartz is common, accounting for 9 to 20% of the sediment. The sediment in the core catcher is very dark gray (5Y 3/1) BIOSILICEOUS OOZE with CLAY.</p> <p>Minor lithology: BIOSILICEOUS CLAYEY MIXED SEDIMENT with FISH REMAINS occurs in Section 1, 0.5 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 1</td> <td>1, 22</td> <td>1, 51</td> <td>CC, 14</td> </tr> <tr> <td></td> <td>M</td> <td>M</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>1</td> <td>5</td> <td>1</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>30</td> <td>70</td> <td>59</td> <td>40</td> </tr> <tr> <td>Clay</td> <td>69</td> <td>25</td> <td>40</td> <td>55</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>40</td> <td>40</td> <td>25</td> <td>20</td> </tr> <tr> <td>Diatoms</td> <td>30</td> <td>35</td> <td>30</td> <td>40</td> </tr> <tr> <td>Feldspar</td> <td>—</td> <td>Tr</td> <td>5</td> <td>—</td> </tr> <tr> <td>Fish</td> <td>10</td> <td>Tr</td> <td>—</td> <td>1</td> </tr> <tr> <td>Opauques</td> <td>1</td> <td>1</td> <td>—</td> <td>2</td> </tr> <tr> <td>Plant</td> <td>—</td> <td>—</td> <td>2</td> <td>—</td> </tr> <tr> <td>Pyrite</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>9</td> <td>10</td> <td>20</td> <td>7</td> </tr> <tr> <td>Silicoflagellates</td> <td>5</td> <td>2</td> <td>8</td> <td>10</td> </tr> <tr> <td>Spicules</td> <td>5</td> <td>5</td> <td>10</td> <td>15</td> </tr> <tr> <td>Unknown</td> <td>—</td> <td>4</td> <td>—</td> <td>—</td> </tr> </table>		1, 1	1, 22	1, 51	CC, 14		M	M	D	D	Sand	1	5	1	5	Silt	30	70	59	40	Clay	69	25	40	55	Clay	40	40	25	20	Diatoms	30	35	30	40	Feldspar	—	Tr	5	—	Fish	10	Tr	—	1	Opauques	1	1	—	2	Plant	—	—	2	—	Pyrite	—	—	Tr	—	Quartz	9	10	20	7	Silicoflagellates	5	2	8	10	Spicules	5	5	10	15	Unknown	—	4	—	—
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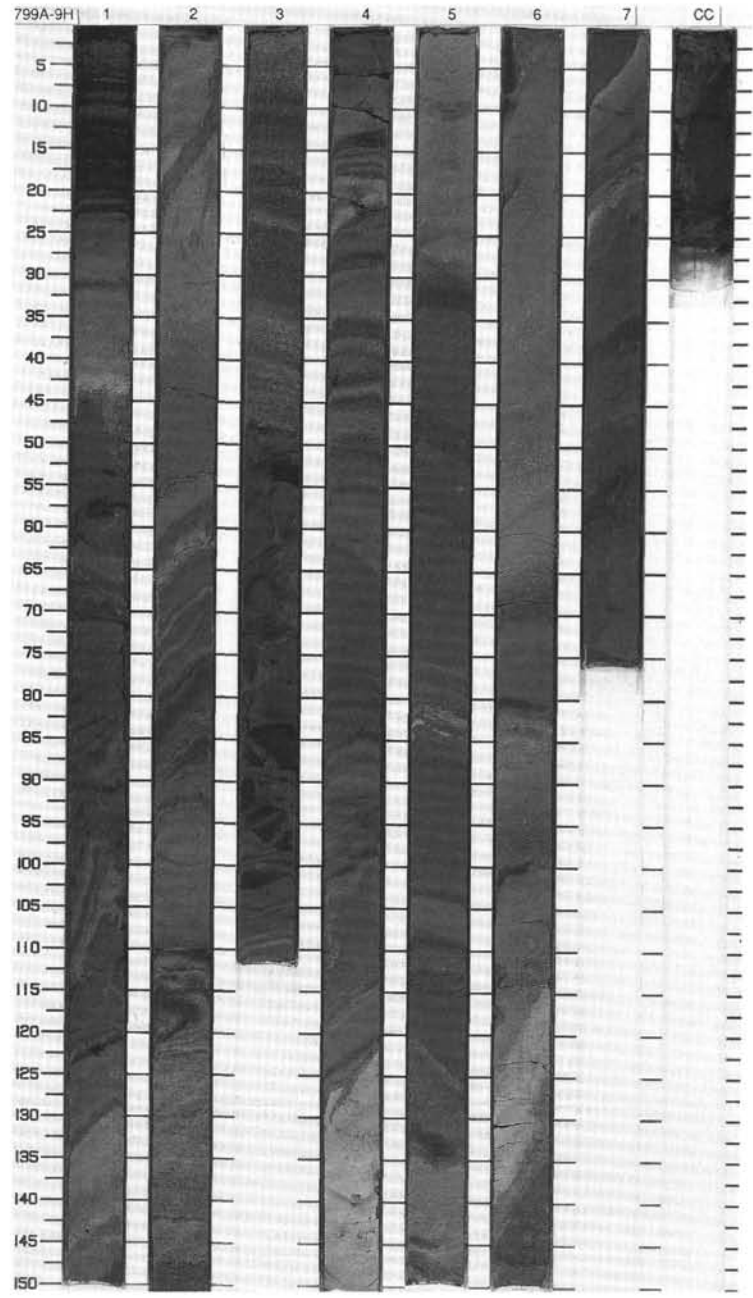
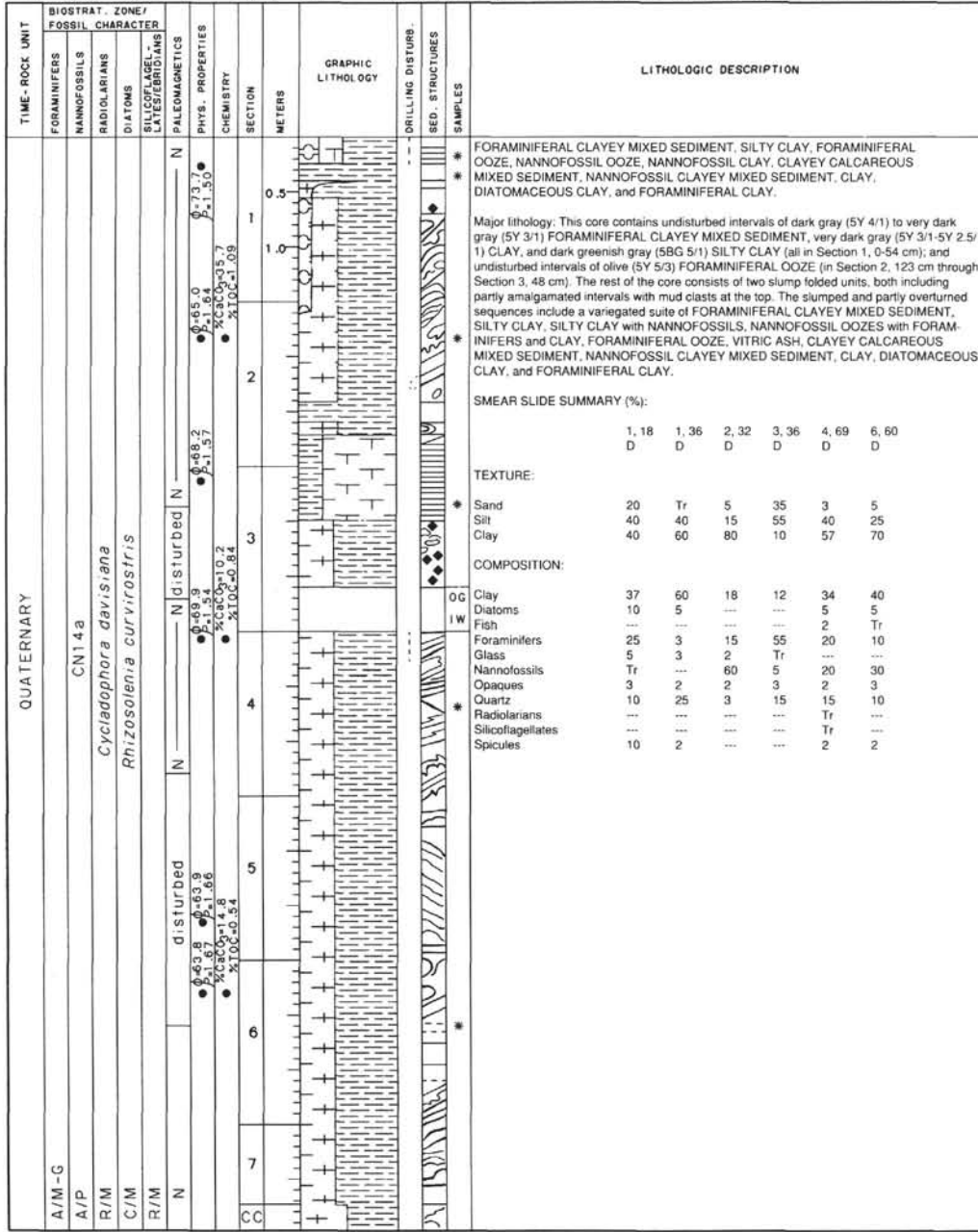
SITE 799 HOLE A CORE 4H CORED INTERVAL 2093.3-2102.2 mbsl; 20.3-29.9 mbsf

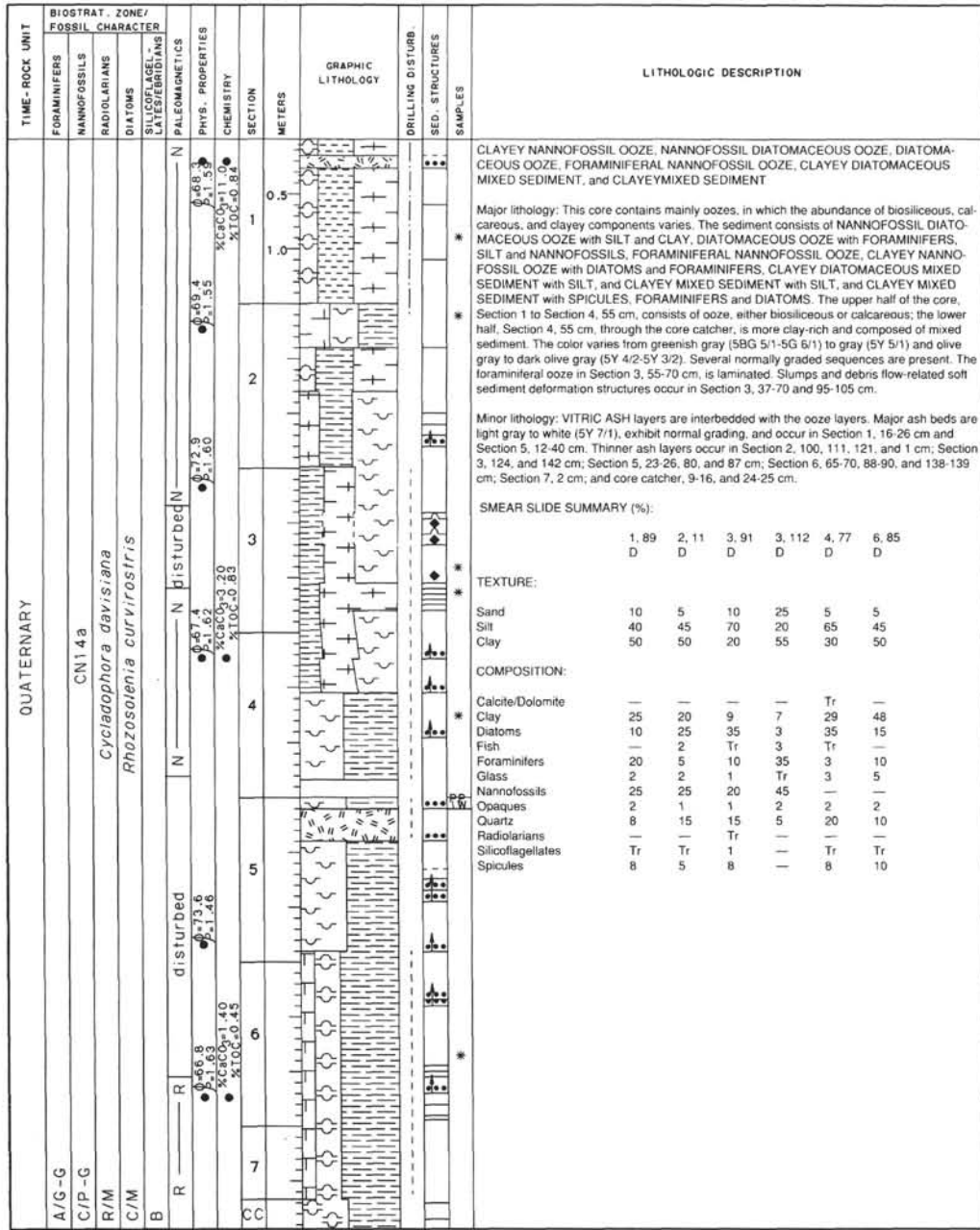


TIME - ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																						
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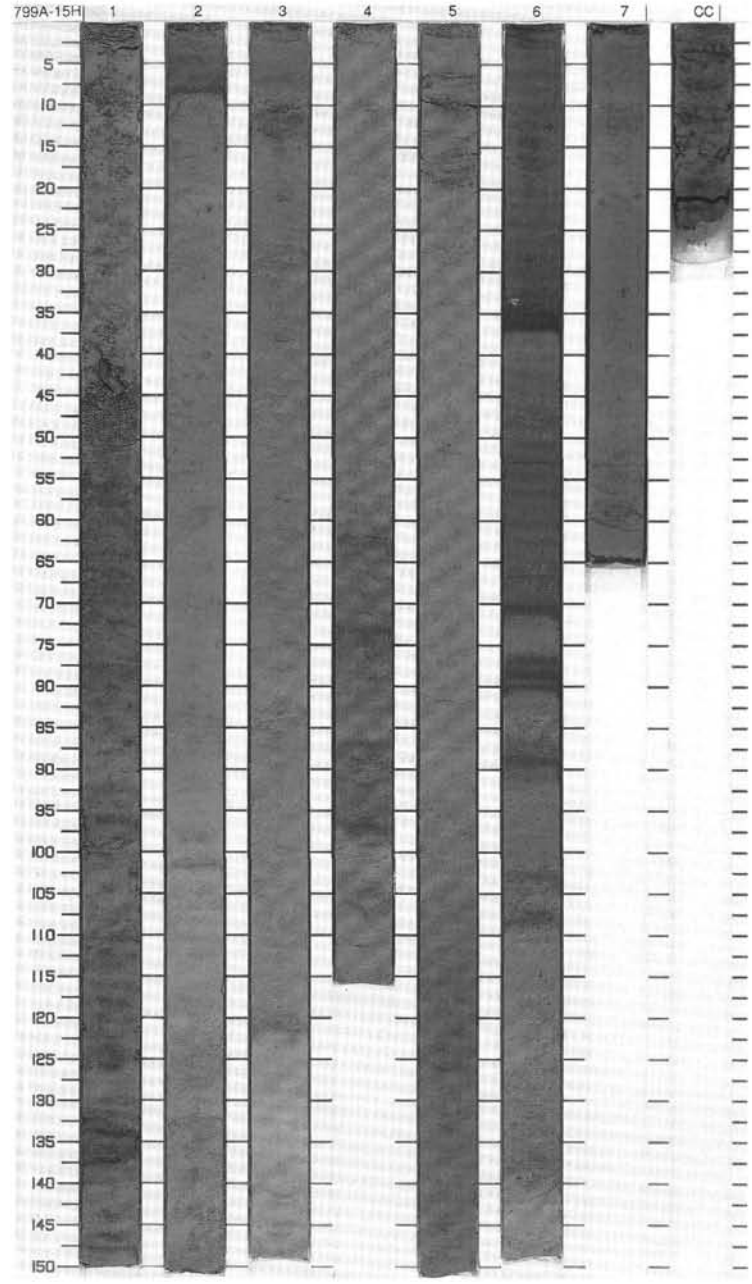
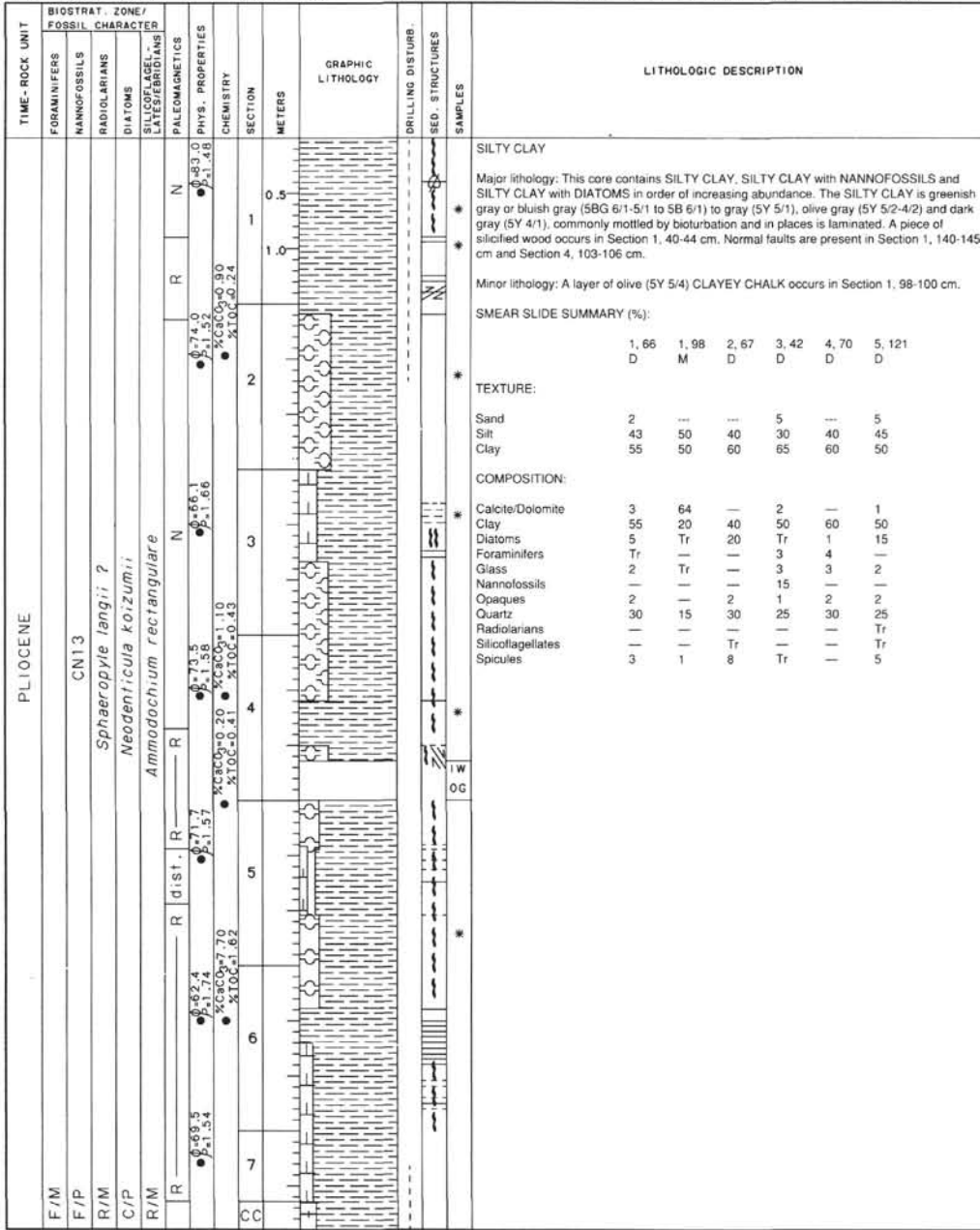


SITE 799 HOLE A CORE 9H CORED INTERVAL 2141.3-2150.9 mbsi; 68.3-77.9 mbsf

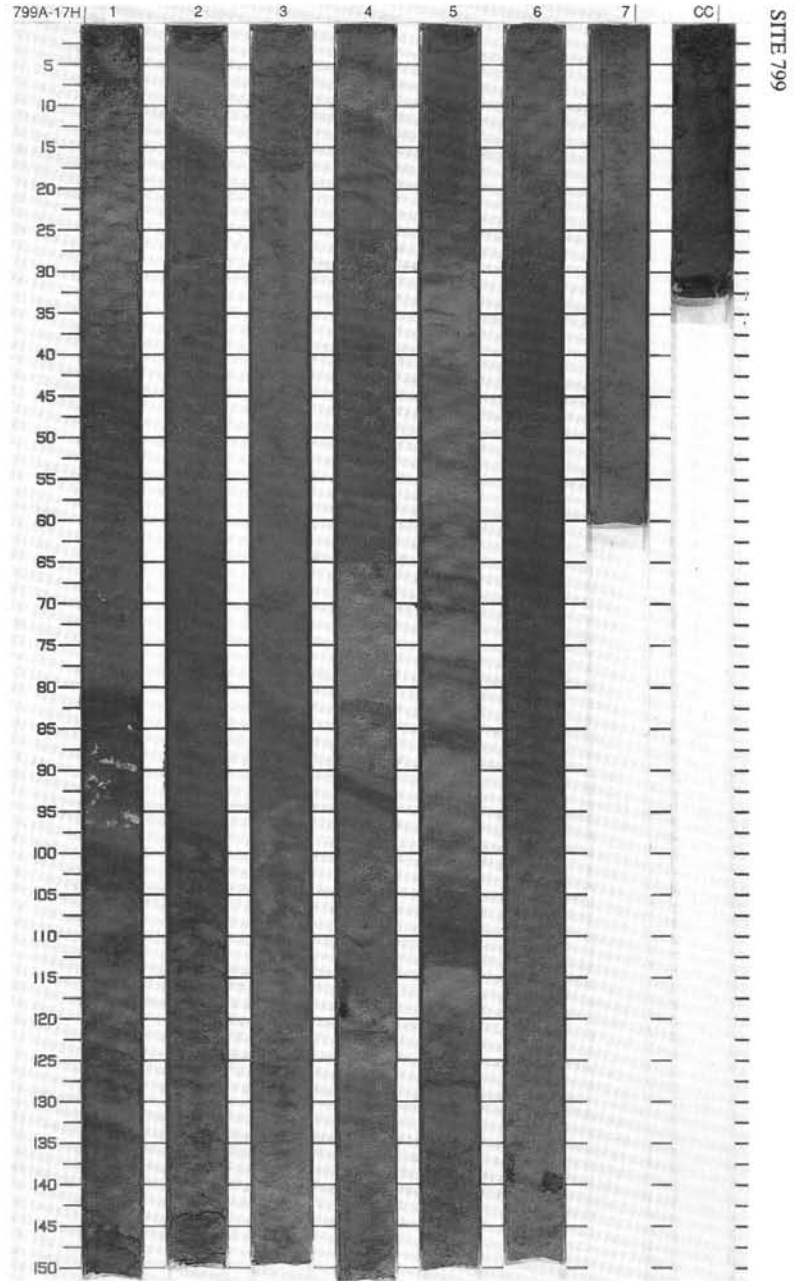
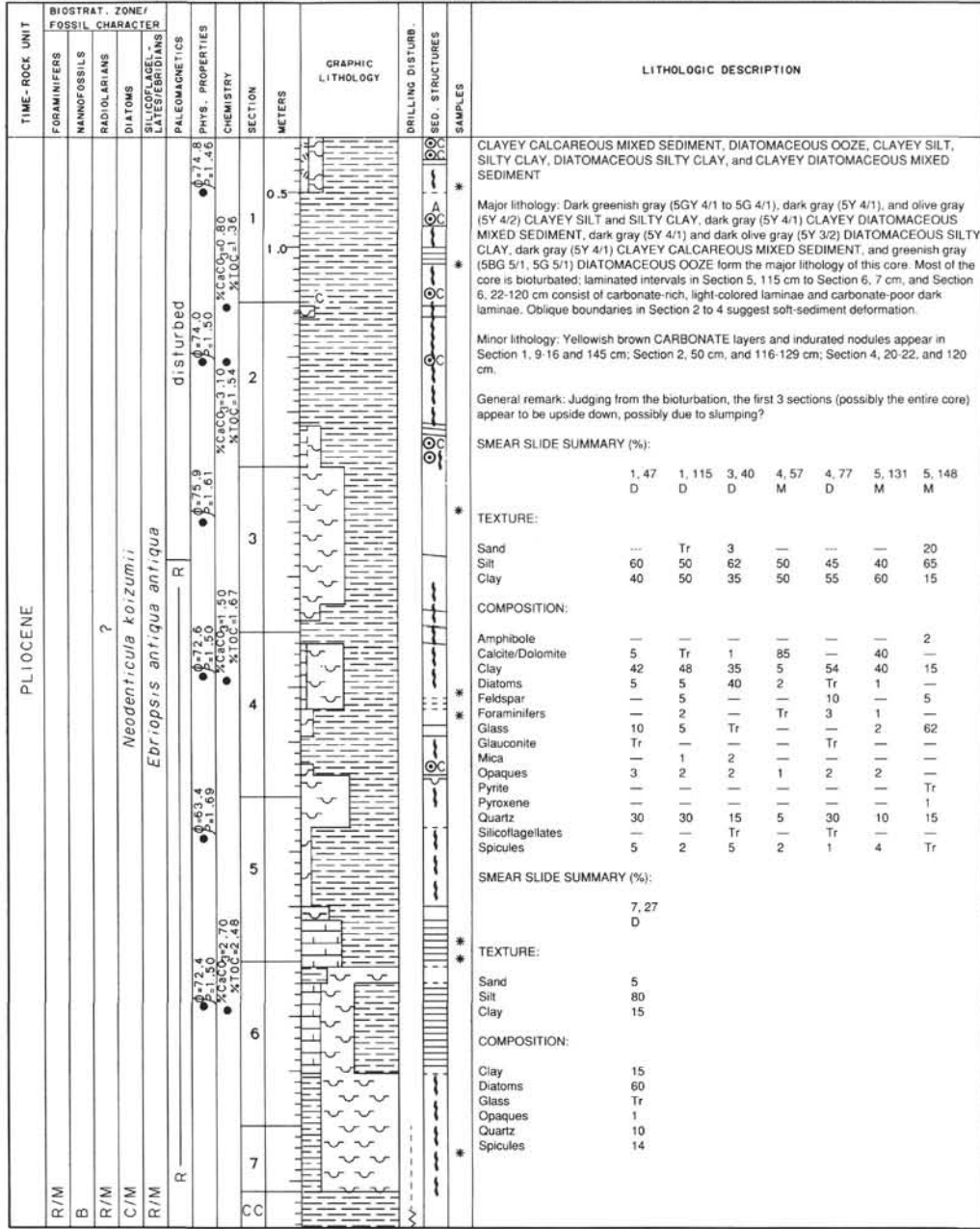




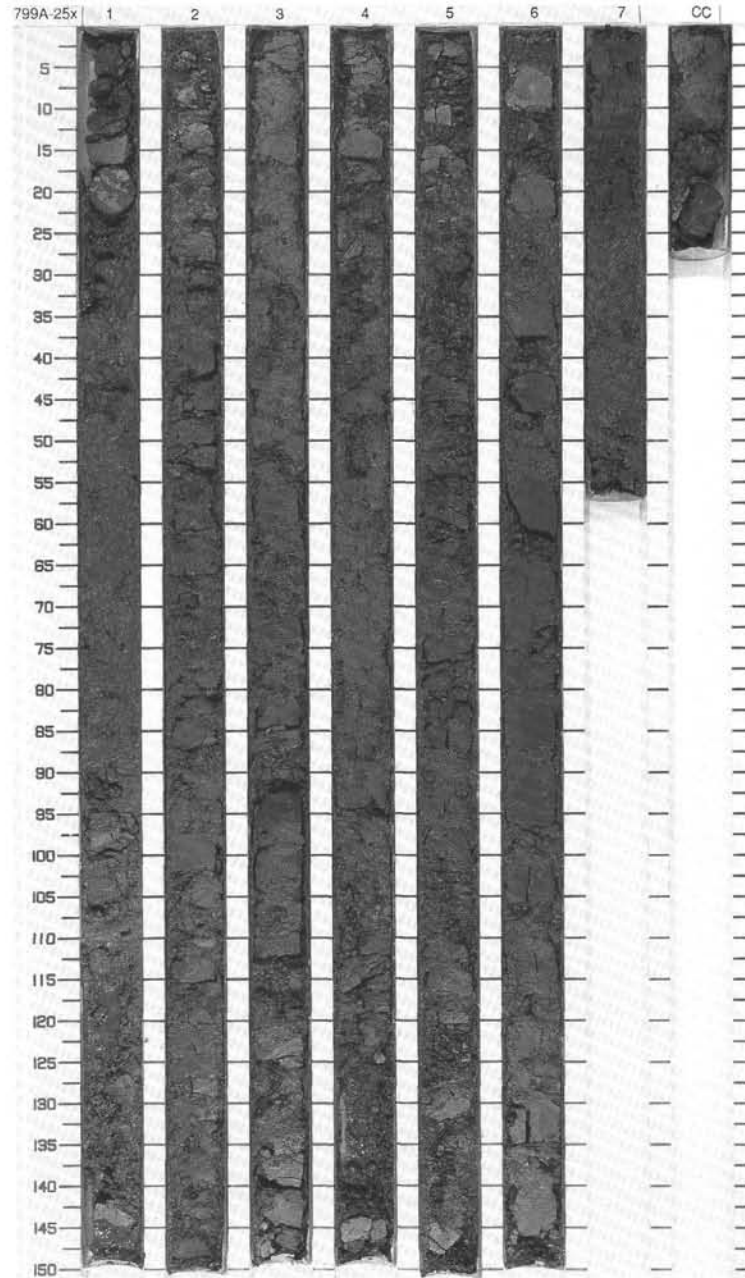
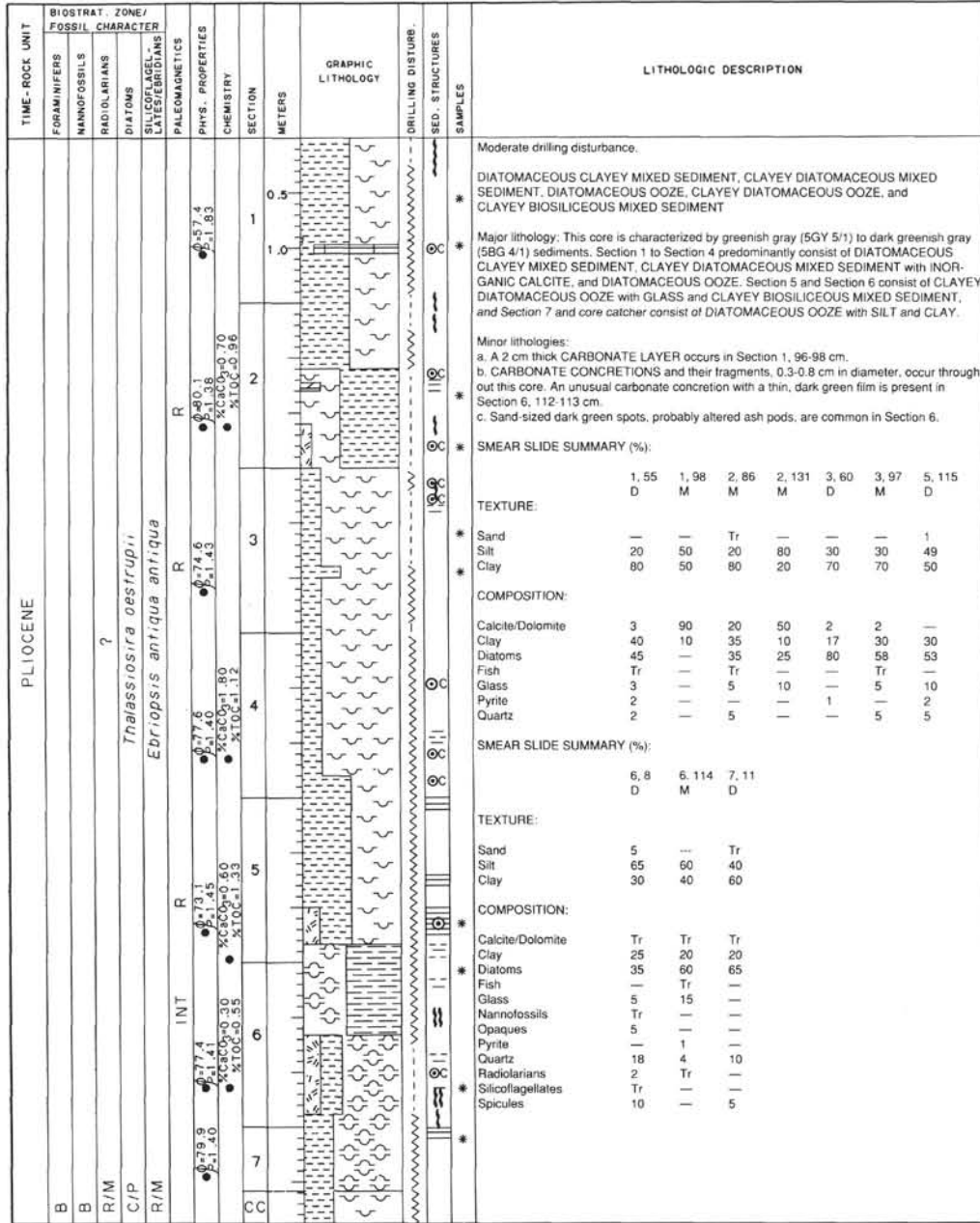
SITE 799 HOLE A CORE 15H CORED INTERVAL 2199.1-2208.8 mbsl; 126.1-135.8 mbsf



SITE 799 HOLE A CORE 17H CORED INTERVAL 2218.5-228.2 mbsl; 145.5-155.2 mbsf



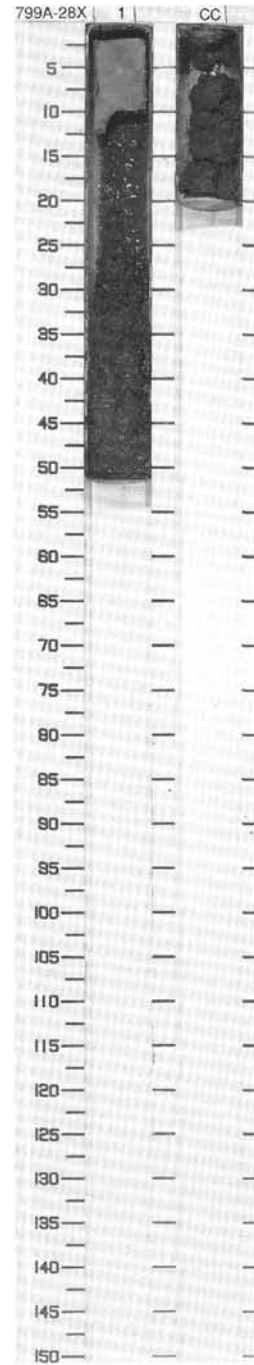
SITE 799 HOLE A CORE 25X CORED INTERVAL 2295.8-2305.5 mbsl; 222.8-232.5 mbsf



799A 26X NO RECOVERY

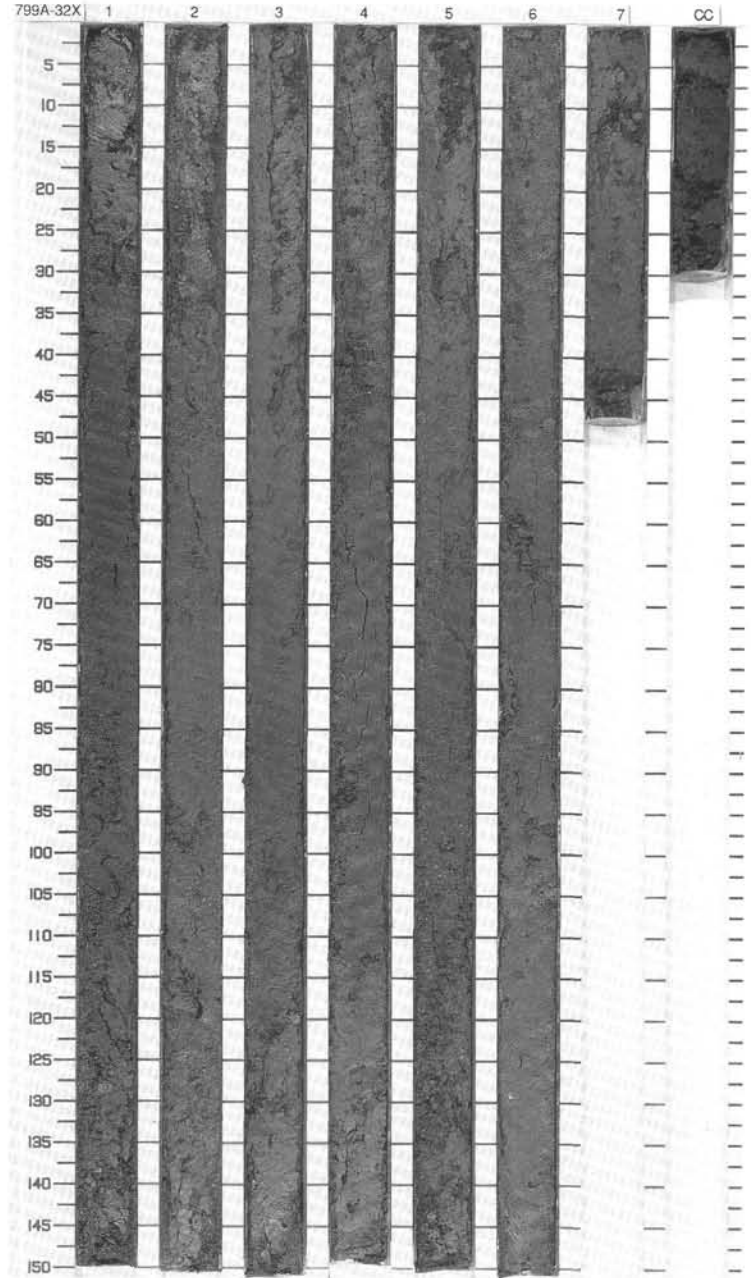
SITE 799 HOLE A CORE 28X CORED INTERVAL 2320.1-2323.9 mbsl; 247.1-250.5 mbsf

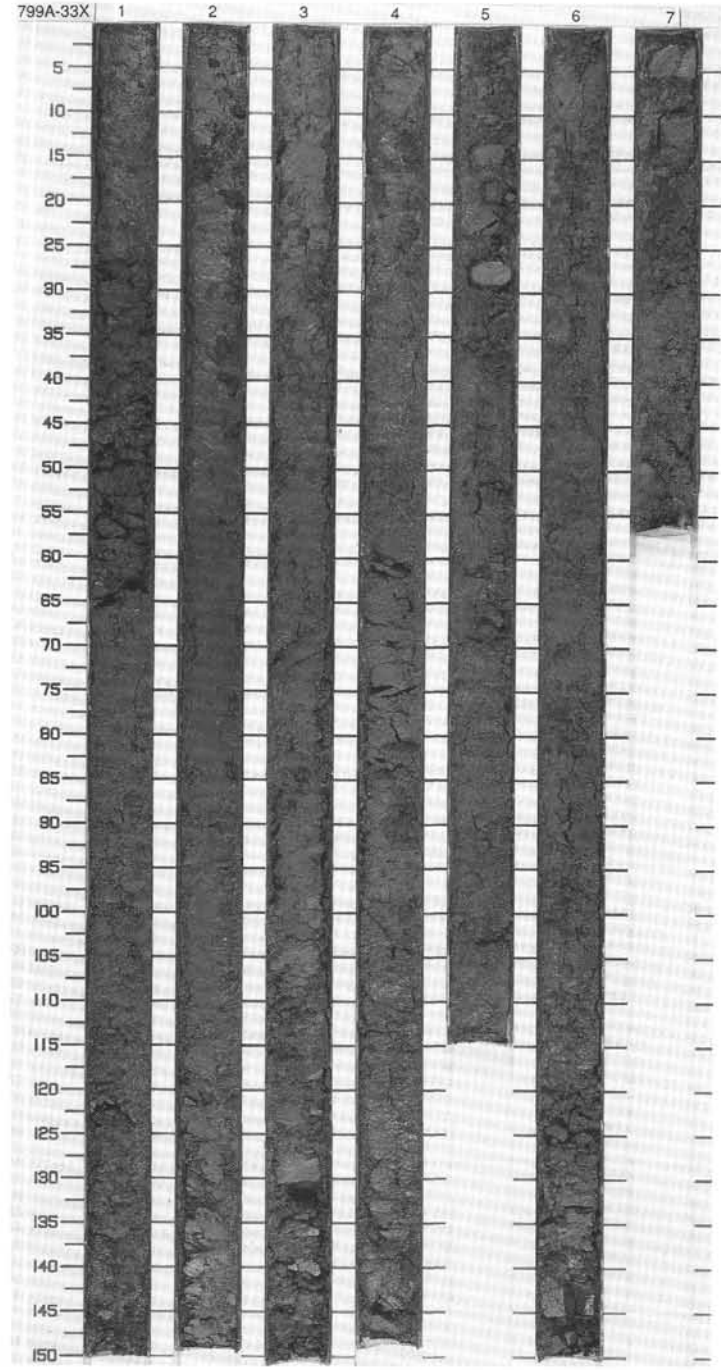
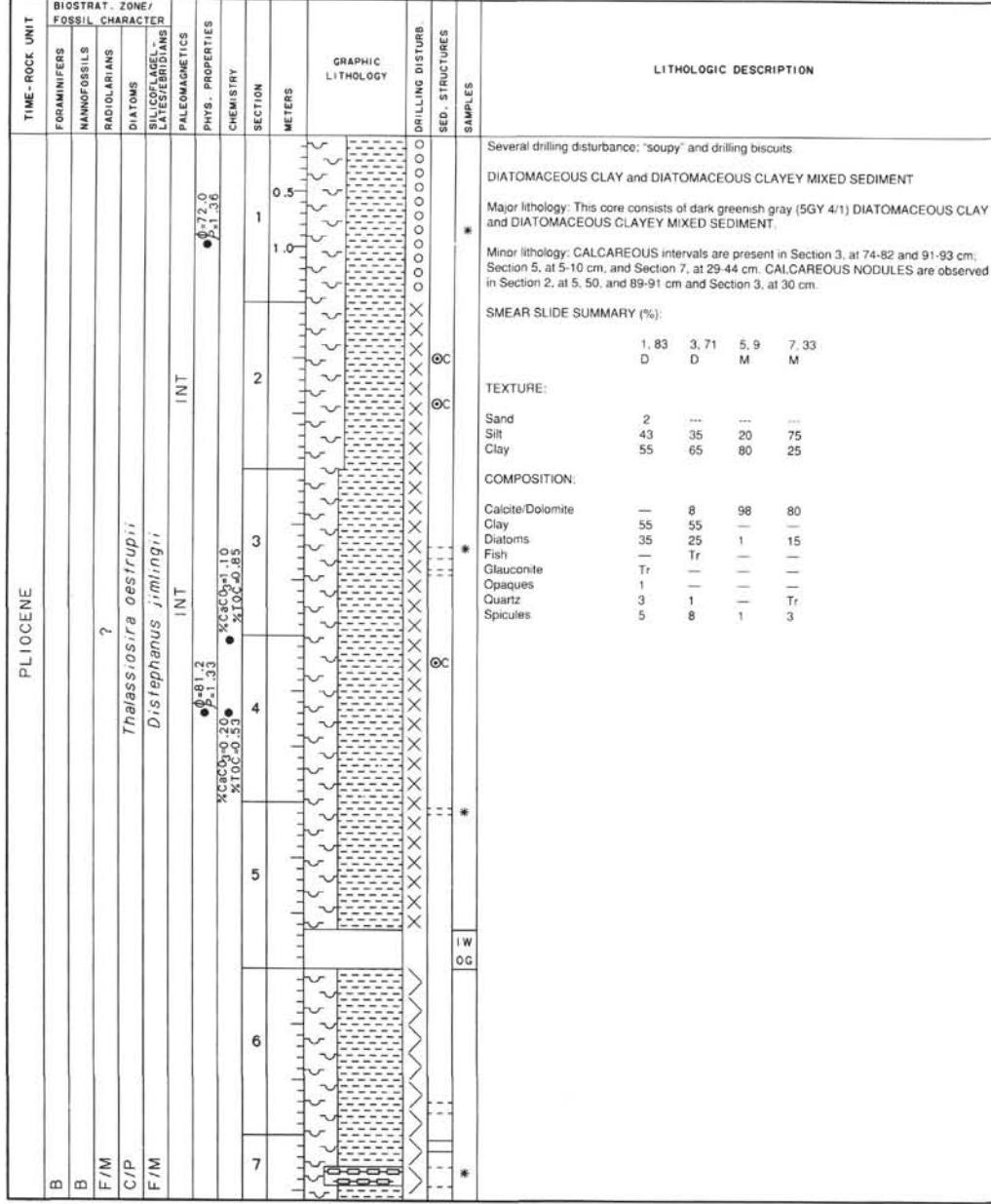
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PLIOCENE									1					<p>Moderate drilling disturbance.</p> <p>Major lithology: This core consists of 60 cm of dark greenish gray (5GY 4/1, 5BG 4/1) DIATOMACEOUS OOZE with NANNOFOSSILS, SAND, and spicules and 10 cm of dark gray (5Y 3/2) to pale yellow (5Y 5/3), olive (5Y 5/3), well-indurated DOLOMITE at the top of the core. Bioturbation and large burrows, 1-2 cm in diameter, are visible in the DOLOMITE layer.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <thead> <tr> <th></th> <th>1,0</th> <th>1,30</th> </tr> </thead> <tbody> <tr> <td>M</td> <td></td> <td>D</td> </tr> </tbody> </table> <p>TEXTURE:</p> <table border="1"> <tbody> <tr> <td>Sand</td> <td>—</td> <td>10</td> </tr> <tr> <td>Silt</td> <td>25</td> <td>75</td> </tr> <tr> <td>Clay</td> <td>75</td> <td>15</td> </tr> </tbody> </table> <p>COMPOSITION:</p> <table border="1"> <tbody> <tr> <td>Dolomite</td> <td>65</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>—</td> <td>5</td> </tr> <tr> <td>Diatoms</td> <td>25</td> <td>40</td> </tr> <tr> <td>Foraminifers</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Nannofossils</td> <td>—</td> <td>10</td> </tr> <tr> <td>Opauques</td> <td>8</td> <td>2</td> </tr> <tr> <td>Organic debris</td> <td>—</td> <td>3</td> </tr> <tr> <td>Quartz</td> <td>Tr</td> <td>12</td> </tr> <tr> <td>Radiolarians</td> <td>—</td> <td>3</td> </tr> <tr> <td>Silicoflagellates</td> <td>—</td> <td>5</td> </tr> <tr> <td>Spicules</td> <td>—</td> <td>20</td> </tr> </tbody> </table>		1,0	1,30	M		D	Sand	—	10	Silt	25	75	Clay	75	15	Dolomite	65	—	Clay	—	5	Diatoms	25	40	Foraminifers	Tr	Tr	Nannofossils	—	10	Opauques	8	2	Organic debris	—	3	Quartz	Tr	12	Radiolarians	—	3	Silicoflagellates	—	5	Spicules	—	20
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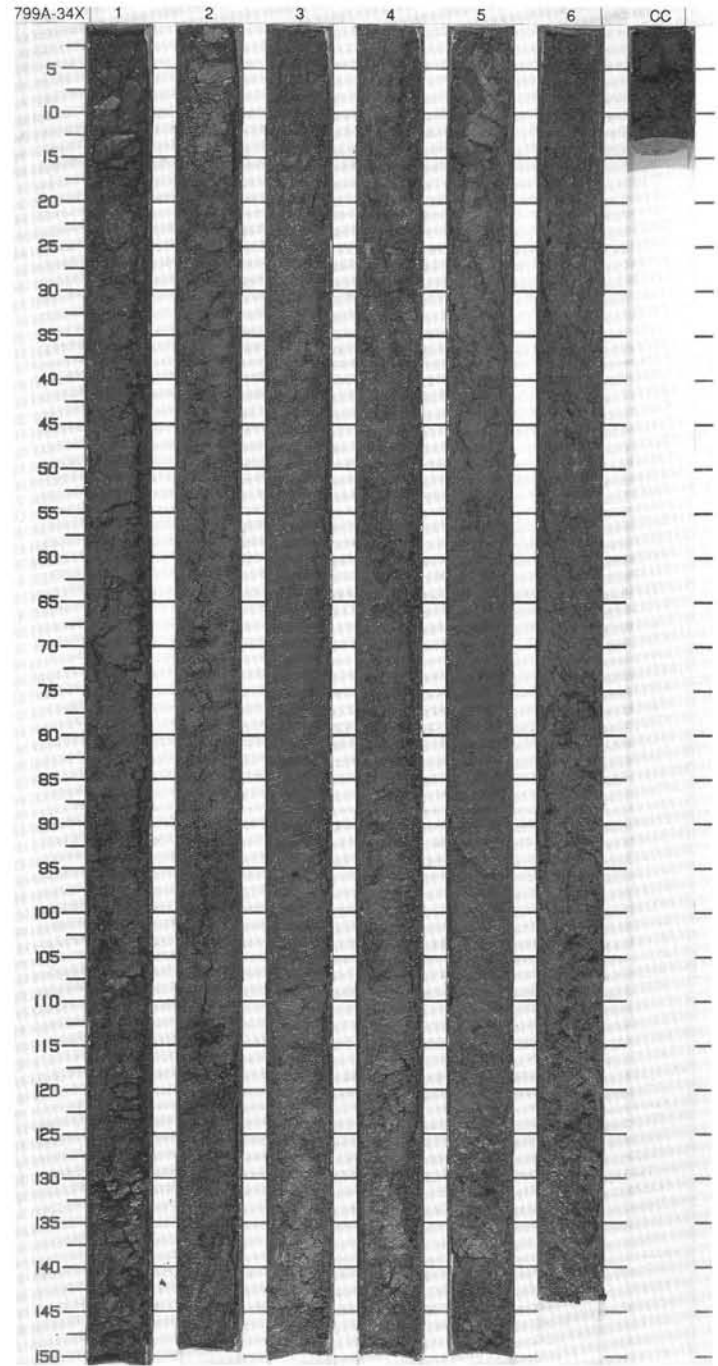
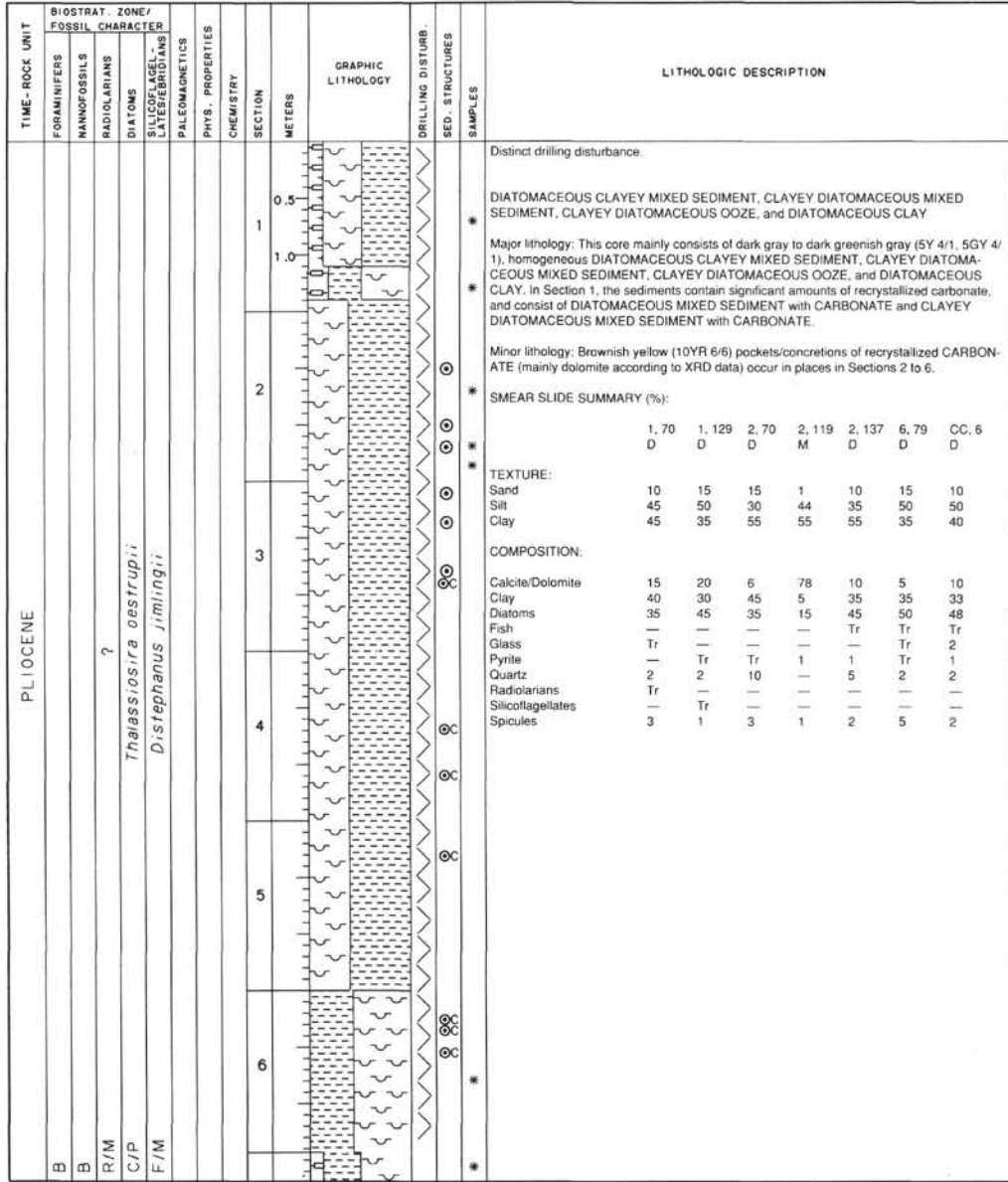
SITE 799 HOLE A CORE 32X CORED INTERVAL 2351.2-2360.9 mbsf; 278.2-287.9 mbsf

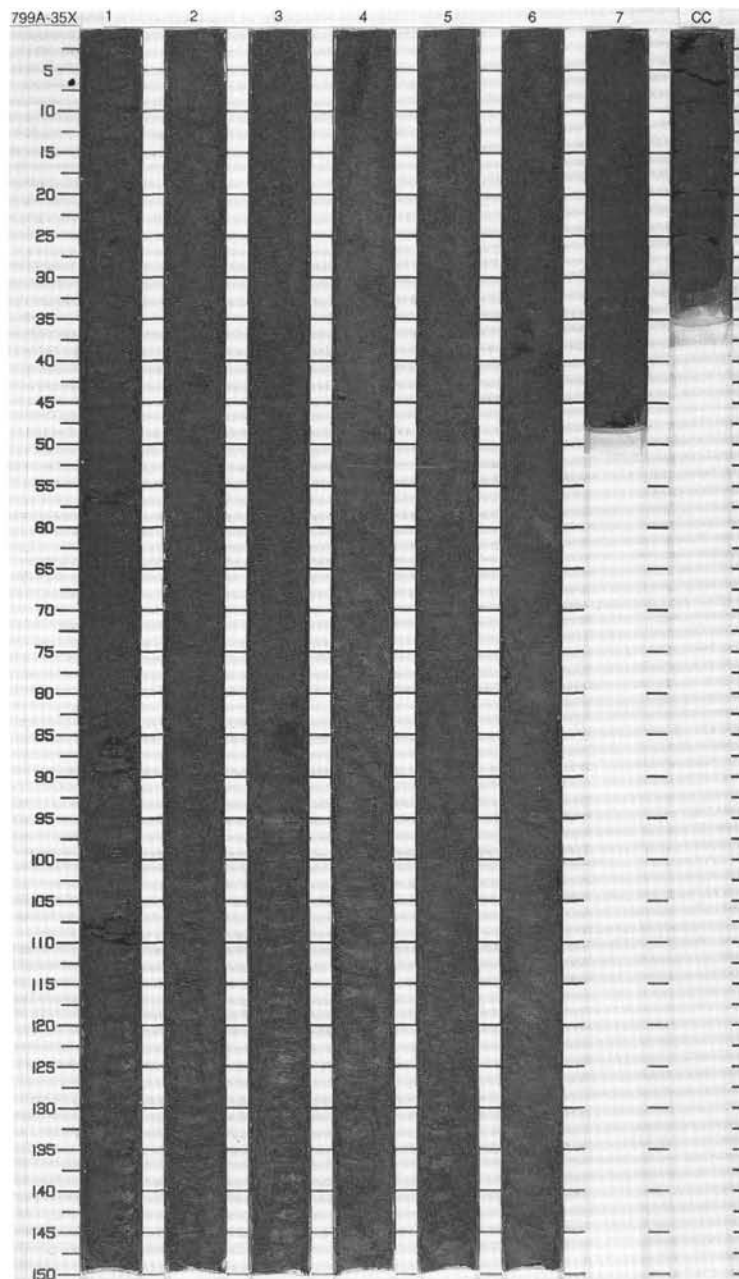
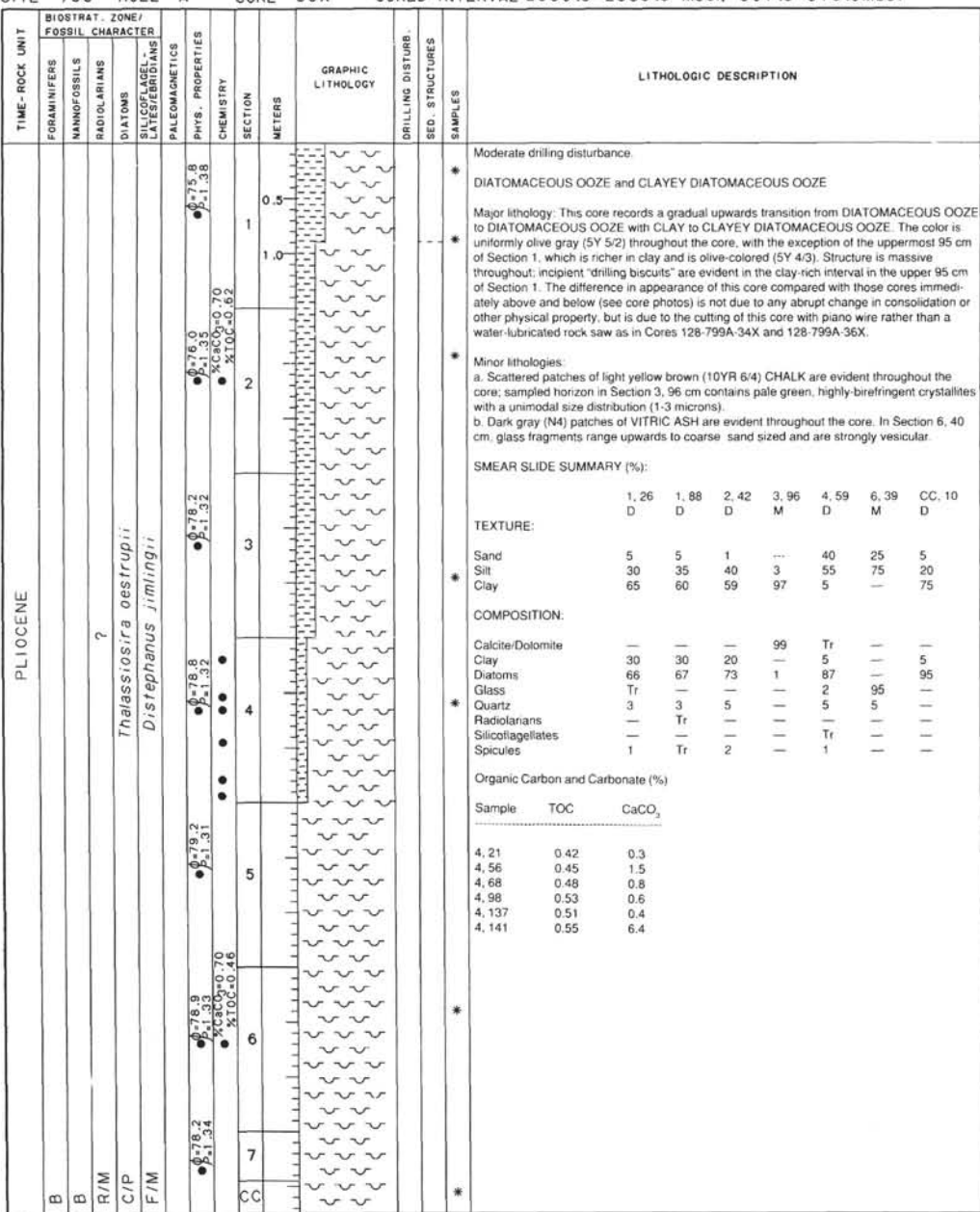
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																												
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PLIOCENE	B													<p>Severe drilling disturbance.</p> <p>CLAYEY DIATOMACEOUS MIXED SEDIMENT</p> <p>Major lithology: This core contains CLAYEY DIATOMACEOUS MIXED SEDIMENT with SPICULES or with SPICULES and SILT, strongly disturbed by drilling. The sediment is dark greenish gray (5GY 4/1), olive gray (5Y 4/2) to gray and dark gray (5Y 5/1-5Y 4/1). Where the drilling biscuits are large enough, bioturbation is visible. Incipient fissility is present throughout the core.</p> <p>Minor lithologies:</p> <p>a. Numerous olive (5Y 5/4) CARBONATE CONCRETIONS occur in this core. Lenticular or continuous layers of olive (5Y 5/4) DIATOMACEOUS CHALKY MIXED SEDIMENT are also present, as in Section 4, 11-12 cm, 41-43 cm, and 125-127 cm.</p> <p>b. A pale olive (5Y 6/4) CLAYEY VITRIC ASH layer occurs in Section 26, 102-104 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 60</td> <td>4, 41</td> <td>4, 63</td> <td>5, 32</td> <td>6, 104</td> </tr> <tr> <td>D</td> <td></td> <td>M</td> <td>D</td> <td>D</td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>Tr</td> <td>2</td> <td>10</td> <td>5</td> <td>20</td> </tr> <tr> <td>Silt</td> <td>70</td> <td>48</td> <td>65</td> <td>70</td> <td>55</td> </tr> <tr> <td>Clay</td> <td>30</td> <td>50</td> <td>25</td> <td>25</td> <td>25</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Amphibole</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>2</td> </tr> <tr> <td>Calcite/Dolomite</td> <td>Tr</td> <td>45</td> <td>—</td> <td>—</td> <td>5</td> </tr> <tr> <td>Clay</td> <td>28</td> <td>9</td> <td>26</td> <td>29</td> <td>25</td> </tr> <tr> <td>Diatoms</td> <td>45</td> <td>35</td> <td>45</td> <td>45</td> <td>5</td> </tr> <tr> <td>Feldspar</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> <td>3</td> </tr> <tr> <td>Fish</td> <td>—</td> <td>Tr</td> <td>1</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Glass</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>55</td> </tr> <tr> <td>Glauconite</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Opauques</td> <td>1</td> <td>1</td> <td>2</td> <td>1</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>15</td> <td>5</td> <td>15</td> <td>15</td> <td>5</td> </tr> <tr> <td>Radiolarians</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Silicoflagellates</td> <td>1</td> <td>—</td> <td>1</td> <td>—</td> <td>—</td> </tr> <tr> <td>Spicules</td> <td>10</td> <td>5</td> <td>10</td> <td>10</td> <td>—</td> </tr> </table>		1, 60	4, 41	4, 63	5, 32	6, 104	D		M	D	D	M	Sand	Tr	2	10	5	20	Silt	70	48	65	70	55	Clay	30	50	25	25	25	Amphibole	—	—	—	—	2	Calcite/Dolomite	Tr	45	—	—	5	Clay	28	9	26	29	25	Diatoms	45	35	45	45	5	Feldspar	—	—	—	Tr	3	Fish	—	Tr	1	Tr	—	Glass	Tr	—	—	—	55	Glauconite	—	—	Tr	—	—	Opauques	1	1	2	1	—	Quartz	15	5	15	15	5	Radiolarians	—	—	Tr	—	—	Silicoflagellates	1	—	1	—	—	Spicules	10	5	10	10	—
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Silicoflagellates	1	—	1	—	—																																																																																																																					
Spicules	10	5	10	10	—																																																																																																																					
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					0-79.8 P-1, 36	%CaCO ₃ 3.90 %LiOC 0.90		2	1.0																																																																																																																	
					0-79.0 P-1, 34			3																																																																																																																		
			<i>Thalassiosira oestrupii</i>		0-79.0 P-1, 34	%CaCO ₃ 2.10 %LiOC 1.61		4																																																																																																																		
			<i>Distephanus jimlingii</i>		0-79.0 P-1, 36			5																																																																																																																		
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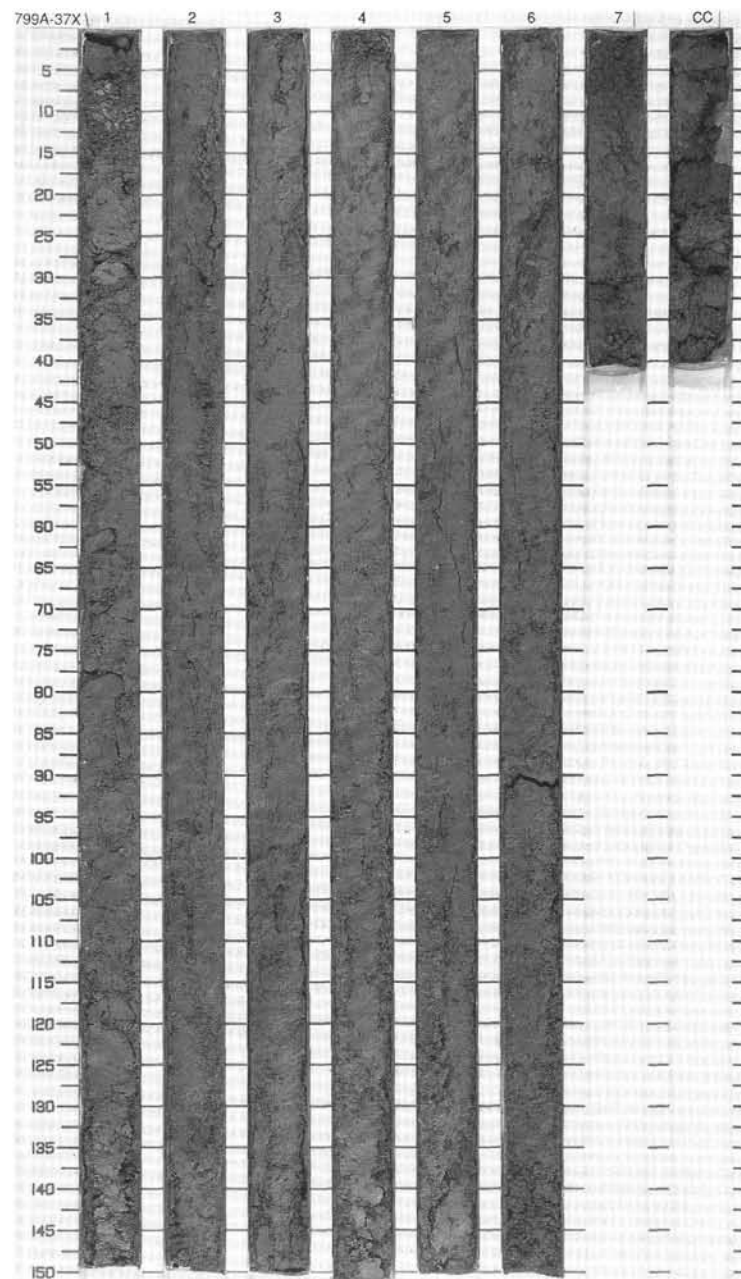
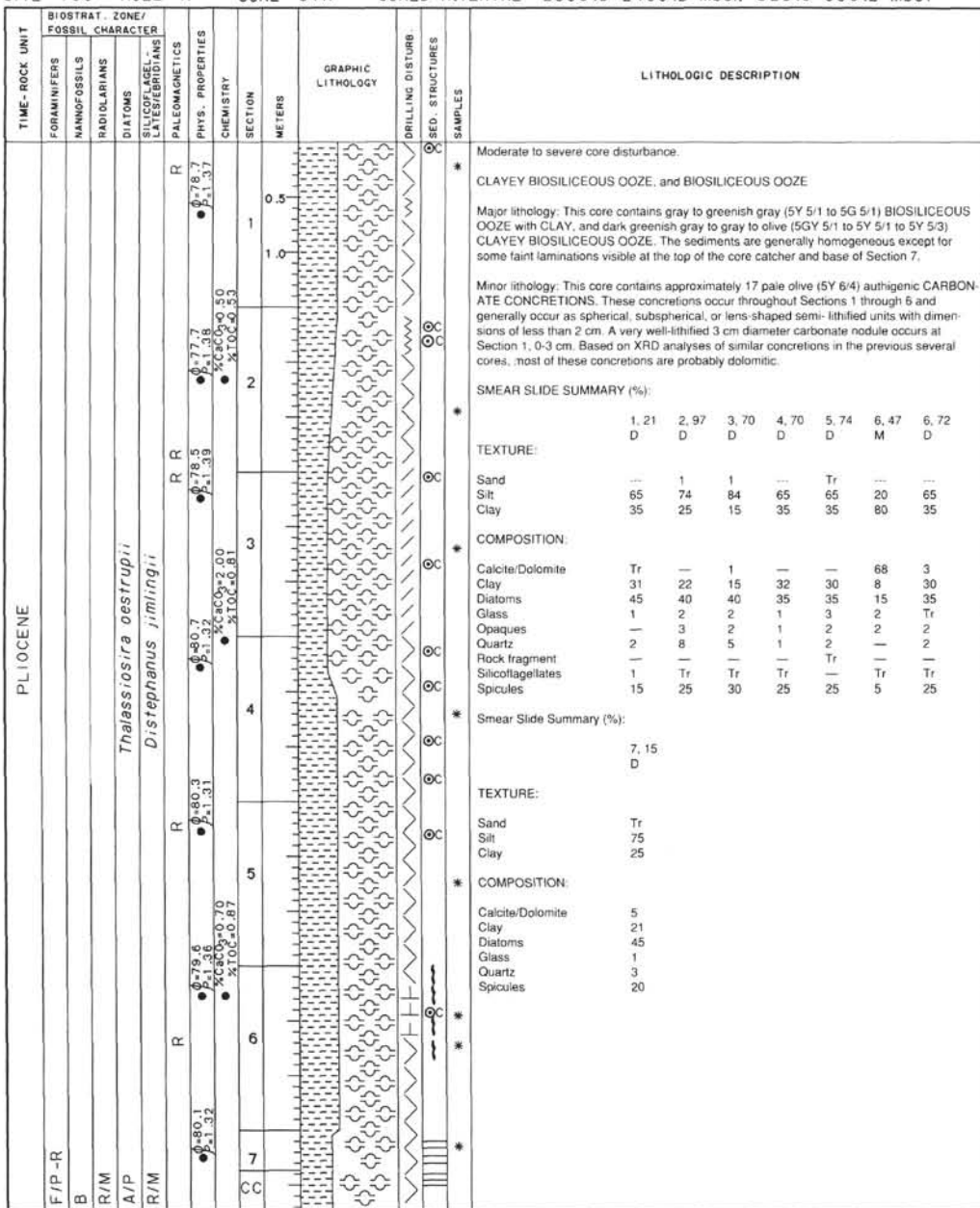




SITE 799 HOLE A CORE 34X CORED INTERVAL 2370.6-2380.3 mbsl; 297.6-307.3 mbsf

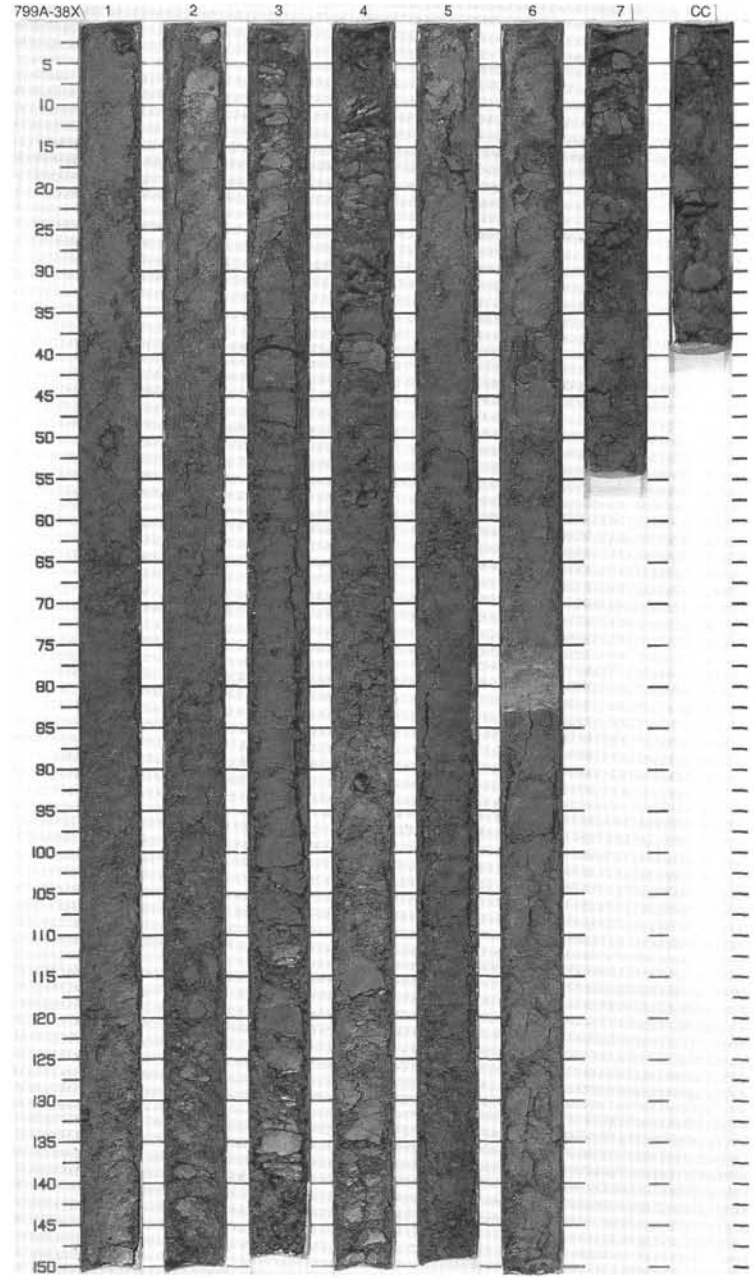


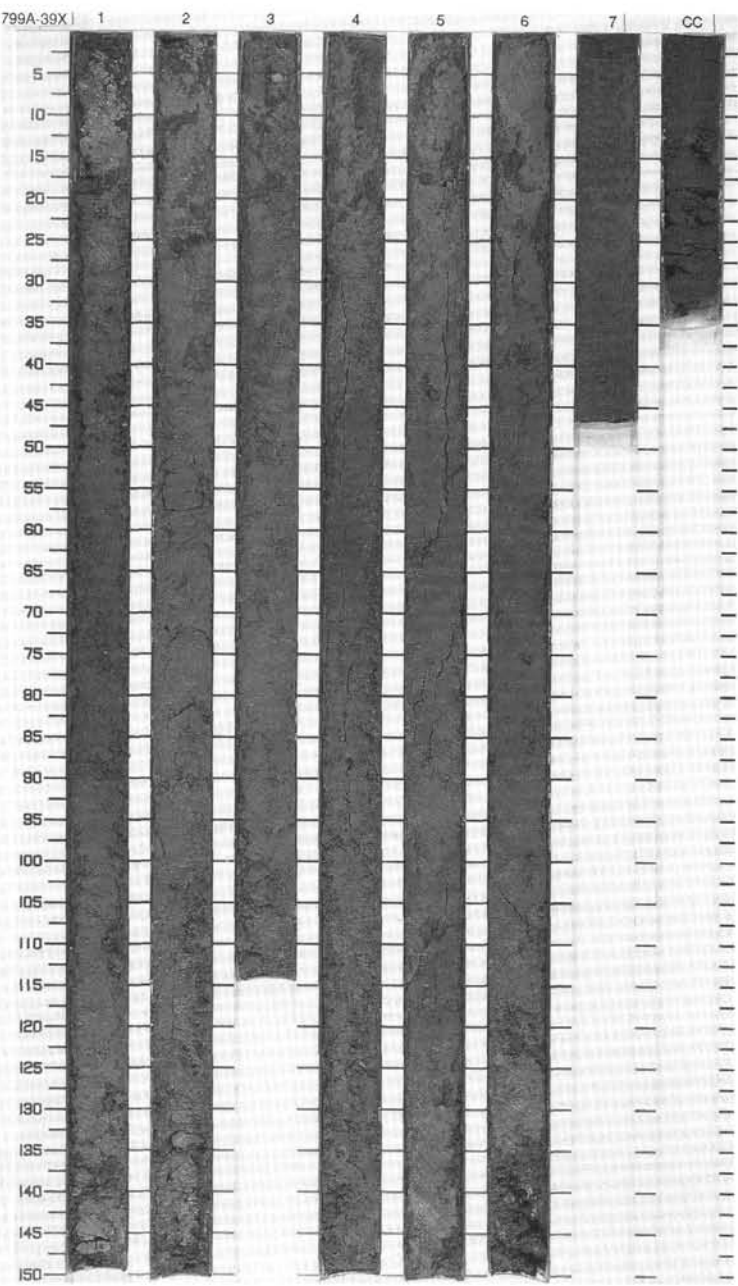
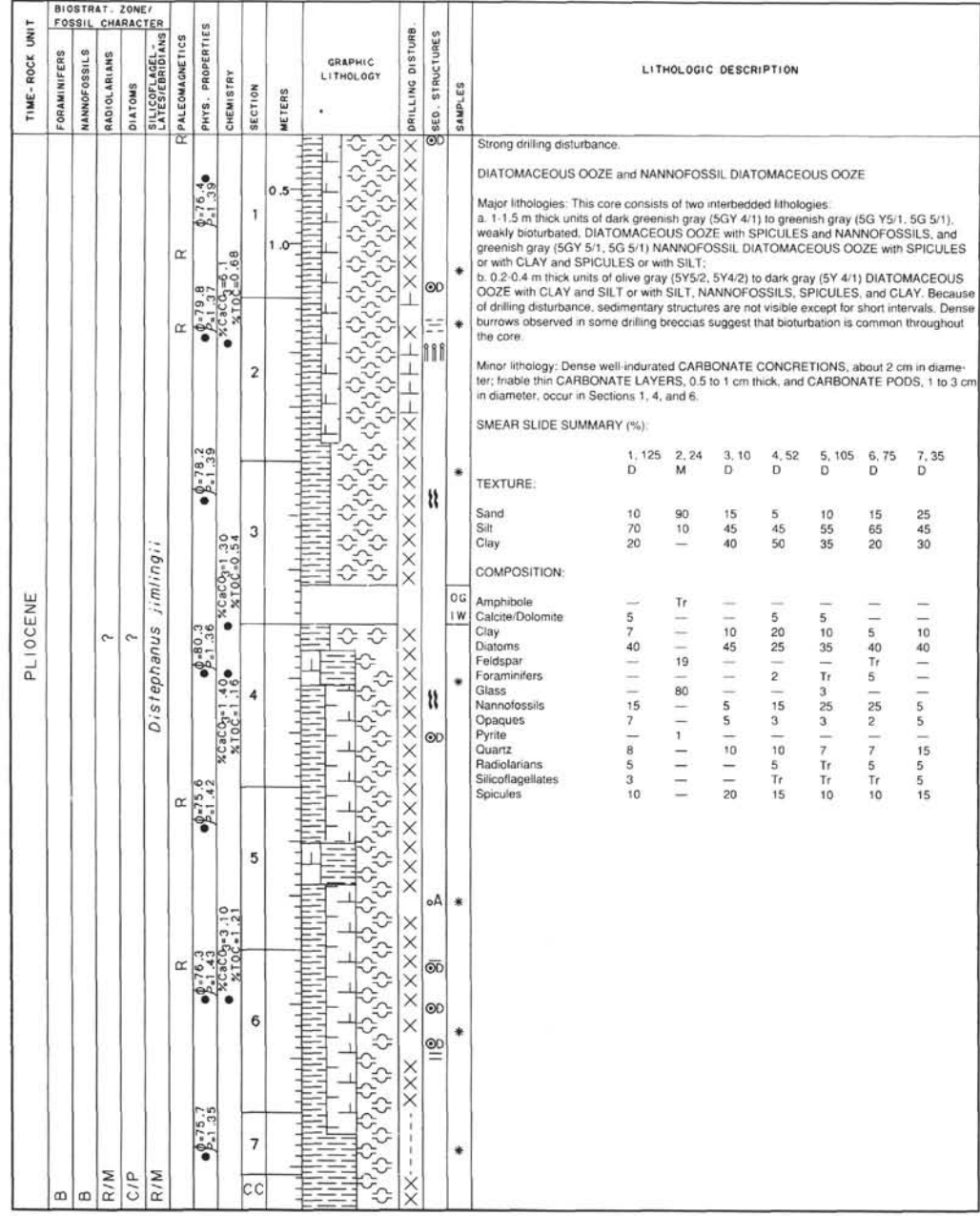


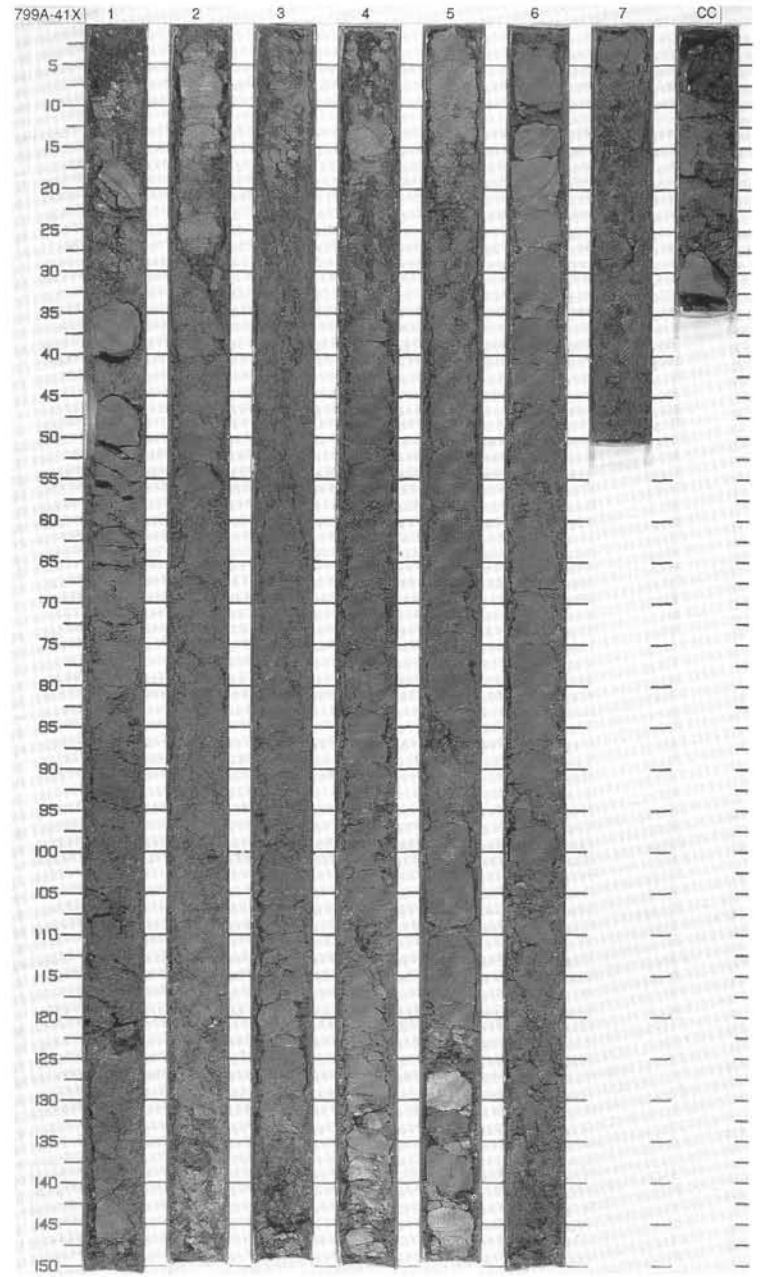
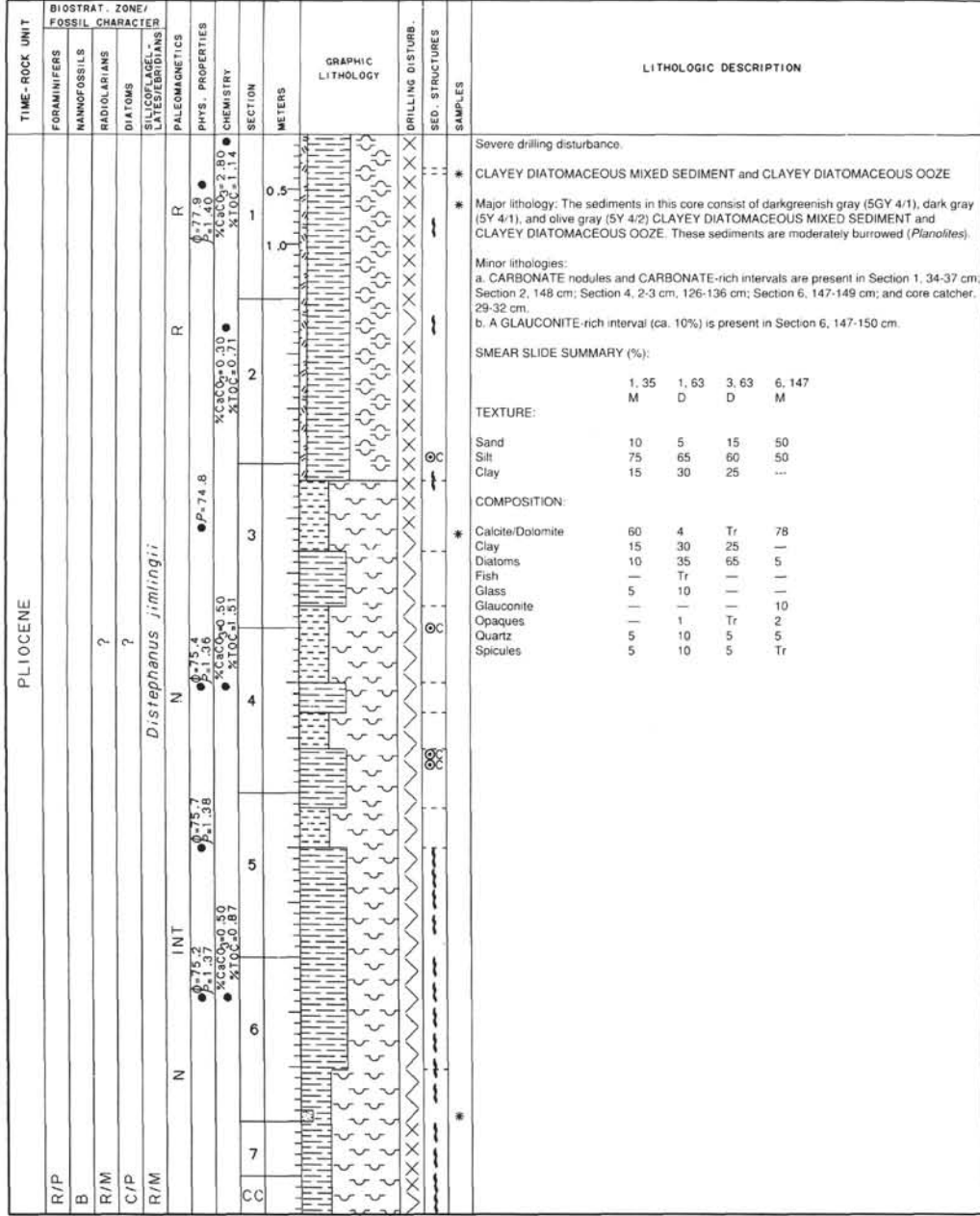


SITE 799 HOLE A CORE 38X CORED INTERVAL 2409.2-2418.9 mbsl; 336.2-345.9 mbsf

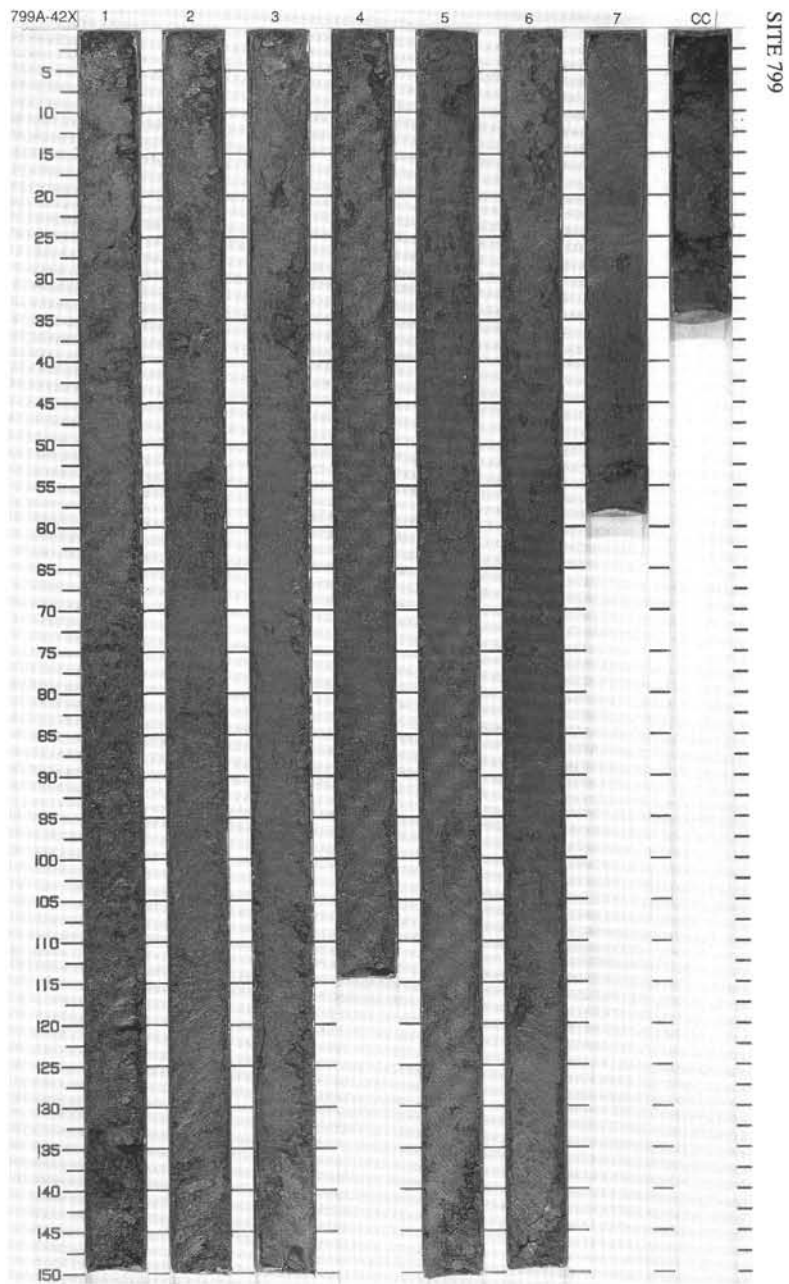
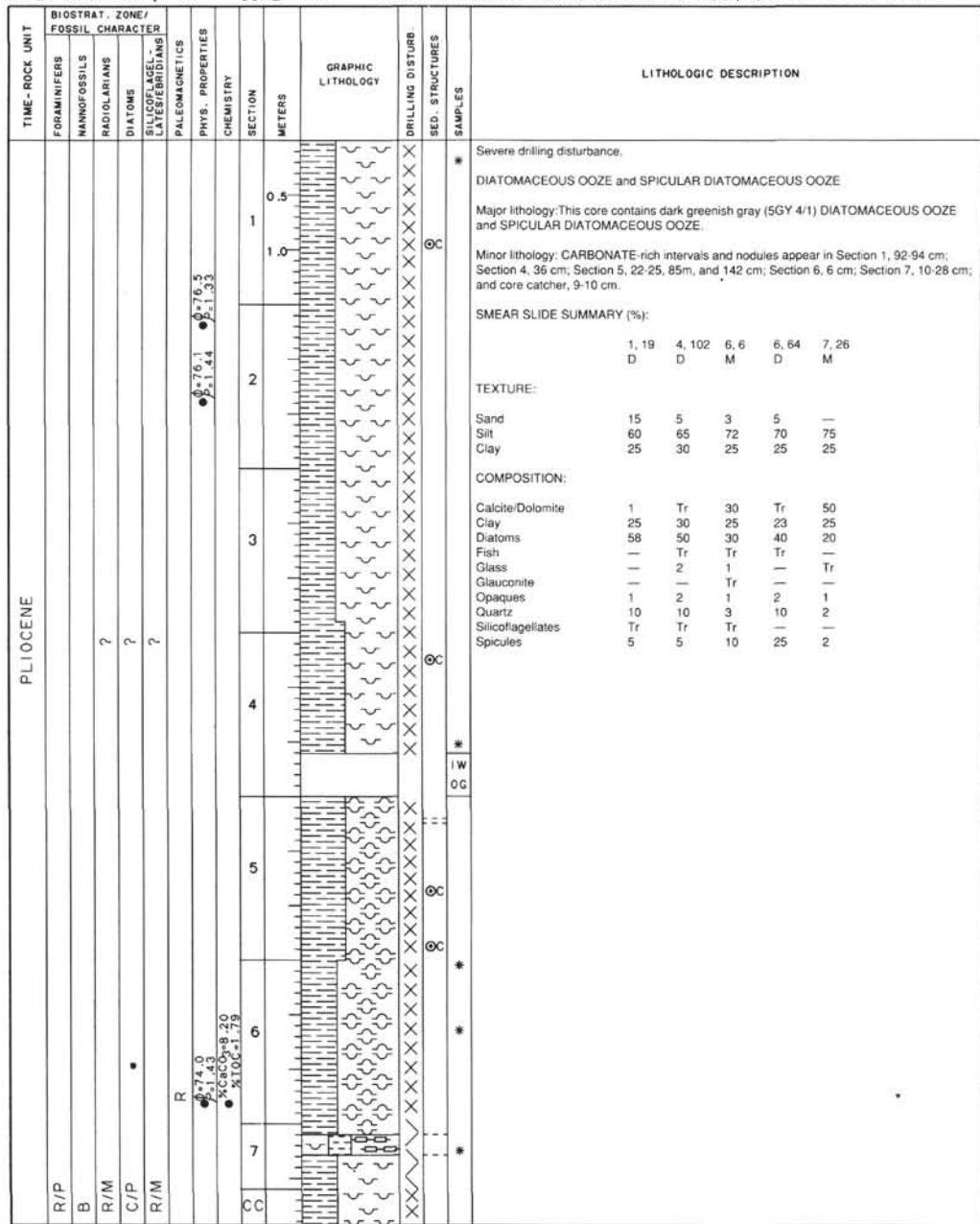
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																																								
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																																																																																																		
PLIOCENE	B				R	0-78.1 P ₂ 1.36			0.5					<p>Severe drilling disturbance.</p> <p>DIATOMACEOUS OOZE</p> <p>Major lithology: This core consists of DIATOMACEOUS OOZE which ranges in color from dark greenish gray to grayish green (5Y 4/1 to 5G 4/2); CLAY, DIAGENETIC CARBONATE and VOLCANIC GLASS form minor components of the ooze.</p> <p>Minor lithologies:</p> <p>a. A prominent pale yellow brown (10YR 4/1) DOLOMITE horizon is present in Section 4, 86-97 cm; it contains calcite-lined molds of foraminifers, including arenaceous varieties.</p> <p>b. A light gray (N5) thinly laminated VITRIC ASH is present in Section 6, 76-83 cm.</p> <p>c. A small pebble-sized pod of yellow brown (10YR 5/6) CHALK is present in Section 3, 120 cm; it consists of silt-sized aggregates of diagenetic carbonate particles with syntaxial overgrowth.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>3, 100</td> <td>3, 120</td> <td>4, 40</td> <td>4, 95</td> <td>5, 84</td> <td>6, 82</td> <td>7, 22</td> </tr> <tr> <td></td> <td>D</td> <td>M</td> <td>D</td> <td>M</td> <td>D</td> <td>M</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>2</td> <td>—</td> <td>1</td> <td>—</td> <td>—</td> <td>5</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>40</td> <td>60</td> <td>10</td> <td>10</td> <td>20</td> <td>60</td> <td>45</td> </tr> <tr> <td>Clay</td> <td>58</td> <td>40</td> <td>89</td> <td>90</td> <td>80</td> <td>35</td> <td>50</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>* Calcite/Dolomite</td> <td>Tr</td> <td>90</td> <td>1</td> <td>80</td> <td>Tr</td> <td>Tr</td> <td>19</td> </tr> <tr> <td>* Clay</td> <td>20</td> <td>10</td> <td>20</td> <td>Tr</td> <td>10</td> <td>—</td> <td>15</td> </tr> <tr> <td>Diatoms</td> <td>66</td> <td>—</td> <td>75</td> <td>5</td> <td>80</td> <td>—</td> <td>60</td> </tr> <tr> <td>Feldspar</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>4</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>—</td> <td>—</td> <td>—</td> <td>5</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Glass</td> <td>10</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>95</td> <td>Tr</td> </tr> <tr> <td>Opauques</td> <td>—</td> <td>—</td> <td>—</td> <td>5</td> <td>—</td> <td>—</td> <td>1</td> </tr> <tr> <td>Quartz</td> <td>2</td> <td>—</td> <td>3</td> <td>Tr</td> <td>5</td> <td>—</td> <td>5</td> </tr> <tr> <td>Radiolarians</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>1</td> </tr> <tr> <td>Spicules</td> <td>2</td> <td>—</td> <td>1</td> <td>5</td> <td>5</td> <td>Tr</td> <td>—</td> </tr> </table>		3, 100	3, 120	4, 40	4, 95	5, 84	6, 82	7, 22		D	M	D	M	D	M	D	Sand	2	—	1	—	—	5	5	Silt	40	60	10	10	20	60	45	Clay	58	40	89	90	80	35	50	* Calcite/Dolomite	Tr	90	1	80	Tr	Tr	19	* Clay	20	10	20	Tr	10	—	15	Diatoms	66	—	75	5	80	—	60	Feldspar	—	—	—	—	—	4	—	Foraminifers	—	—	—	5	—	—	—	Glass	10	—	—	—	—	95	Tr	Opauques	—	—	—	5	—	—	1	Quartz	2	—	3	Tr	5	—	5	Radiolarians	—	—	—	—	—	—	1	Spicules	2	—	1	5	5	Tr	—
		3, 100	3, 120	4, 40	4, 95	5, 84	6, 82	7, 22																																																																																																																														
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	Sand	2	—	1	—	—	5	5																																																																																																																														
	Silt	40	60	10	10	20	60	45																																																																																																																														
	Clay	58	40	89	90	80	35	50																																																																																																																														
	* Calcite/Dolomite	Tr	90	1	80	Tr	Tr	19																																																																																																																														
* Clay	20	10	20	Tr	10	—	15																																																																																																																															
Diatoms	66	—	75	5	80	—	60																																																																																																																															
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Foraminifers	—	—	—	5	—	—	—																																																																																																																															
Glass	10	—	—	—	—	95	Tr																																																																																																																															
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Quartz	2	—	3	Tr	5	—	5																																																																																																																															
Radiolarians	—	—	—	—	—	—	1																																																																																																																															
Spicules	2	—	1	5	5	Tr	—																																																																																																																															
B					R	0-76.9 P ₂ 1.37			1.0																																																																																																																													
R/M		?			R	0-78.9 P ₂ 1.38																																																																																																																																
C/P		?			R	0-76.3 P ₂ 1.35																																																																																																																																
R/M					R	0-75.2 P ₂ 1.45																																																																																																																																
					N	0-80.7 P ₂ 1.37																																																																																																																																
					INT	0-77.5 P ₂ 1.35 %CaCO ₃ =0.20 %SiO ₂ =0.61																																																																																																																																
						0-75.2 P ₂ 1.45																																																																																																																																
						0-76.9 P ₂ 1.37																																																																																																																																

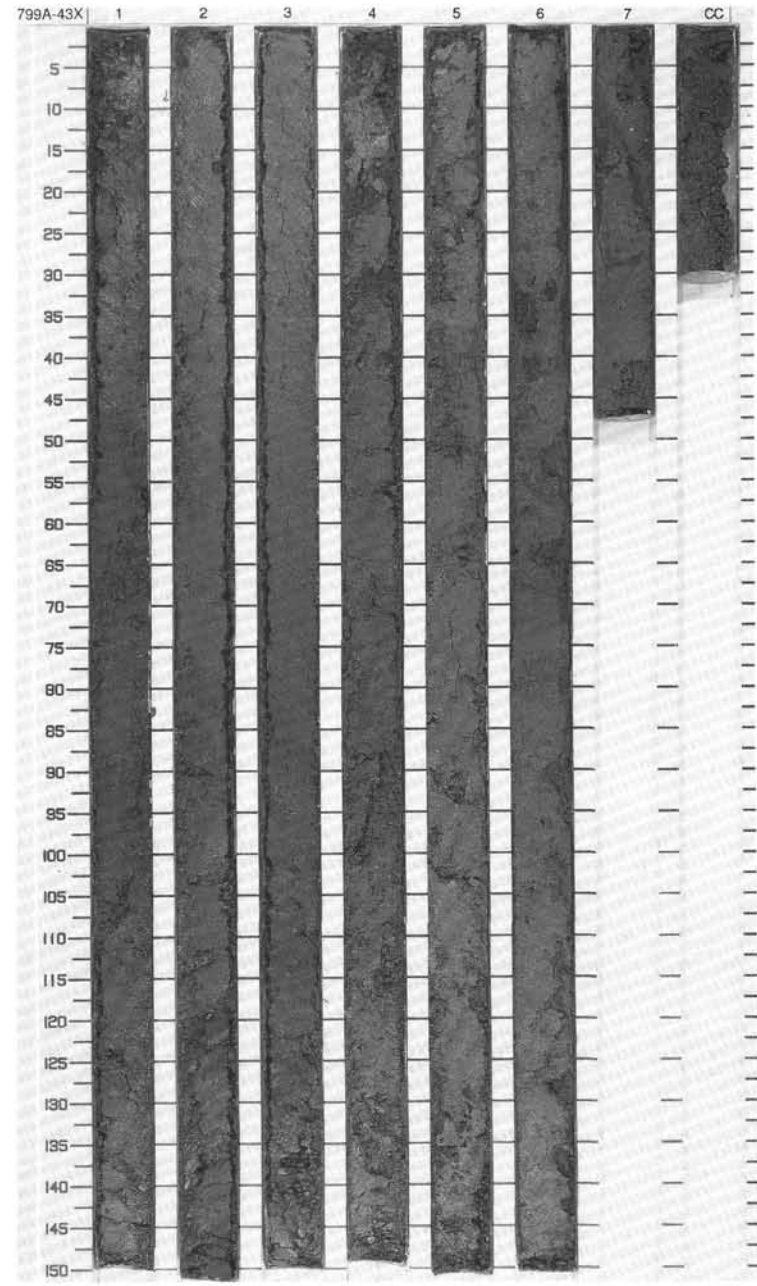
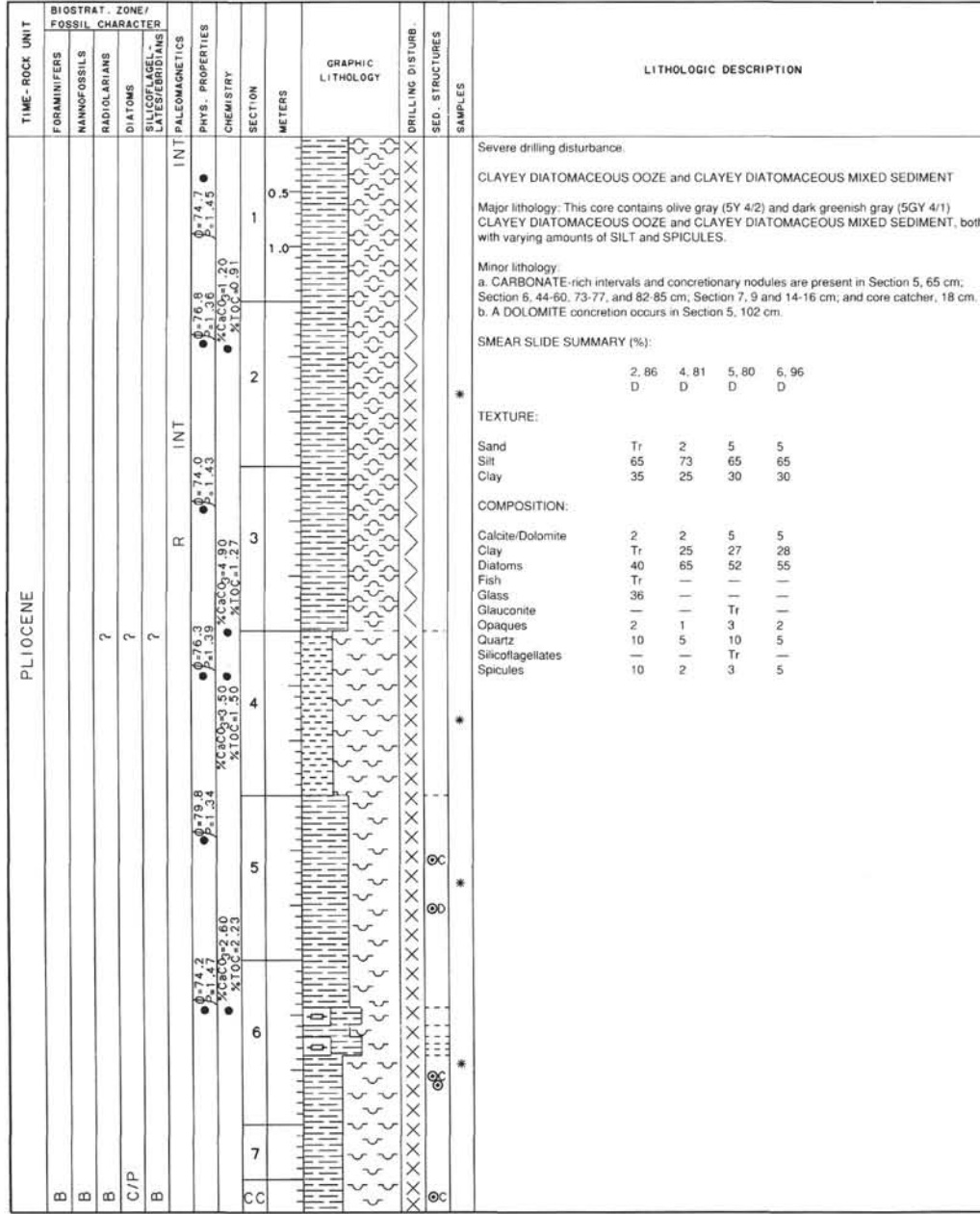






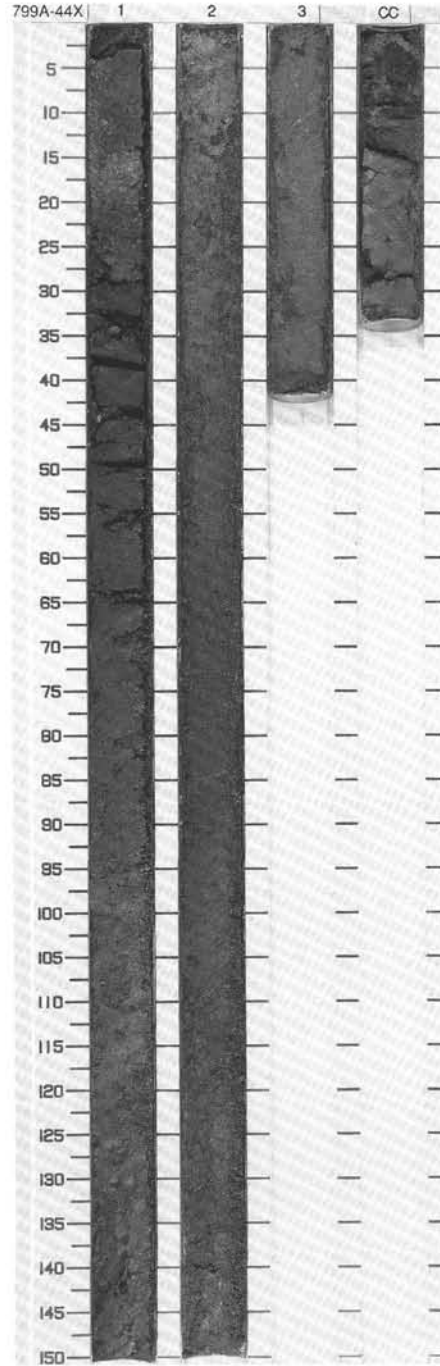
SITE 799 HOLE A CORE 42X CORED INTERVAL 2448.0-2457.6 mbsf; 375.0-384.6 mbsf

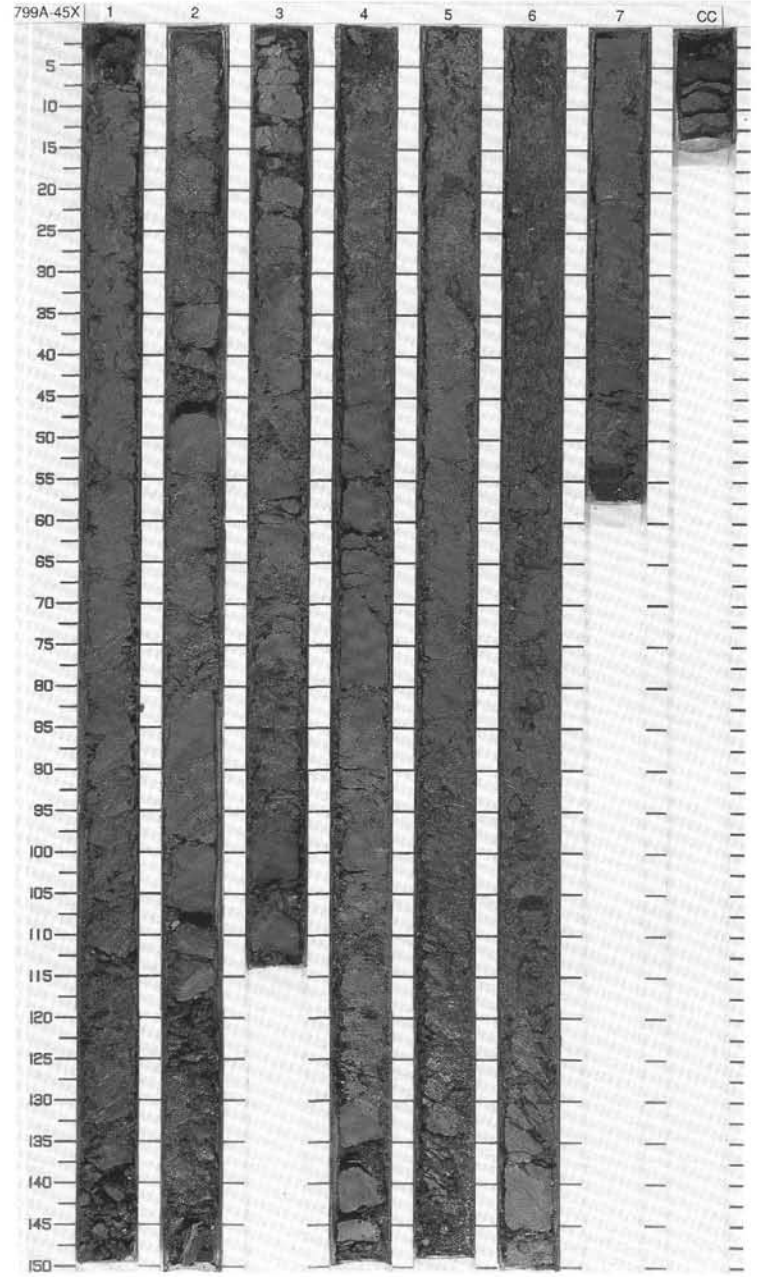
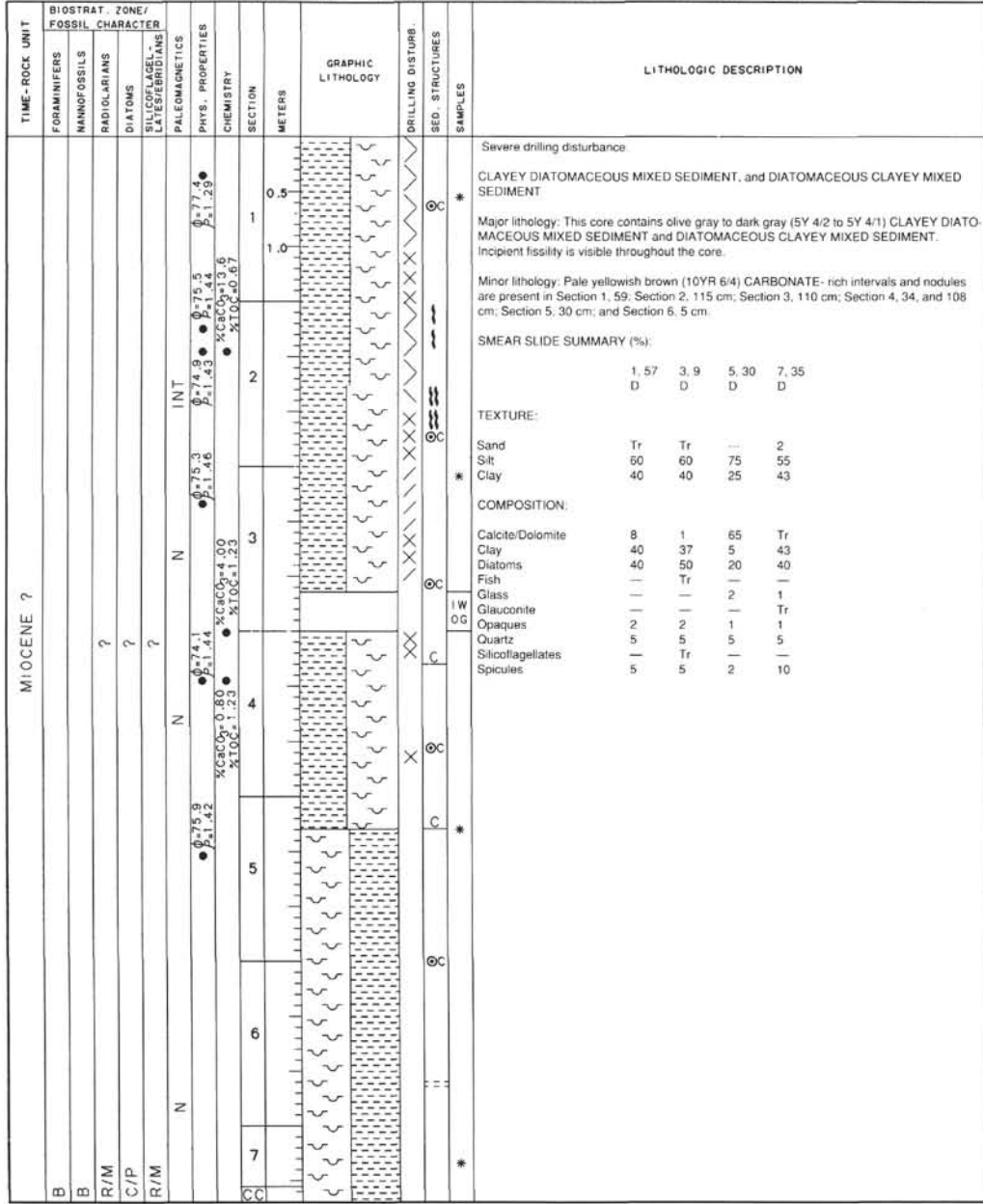




SITE 799 HOLE A CORE 44X CORED INTERVAL 2467.3-2476.9 mbsf; 394.3-403.9 mbsf

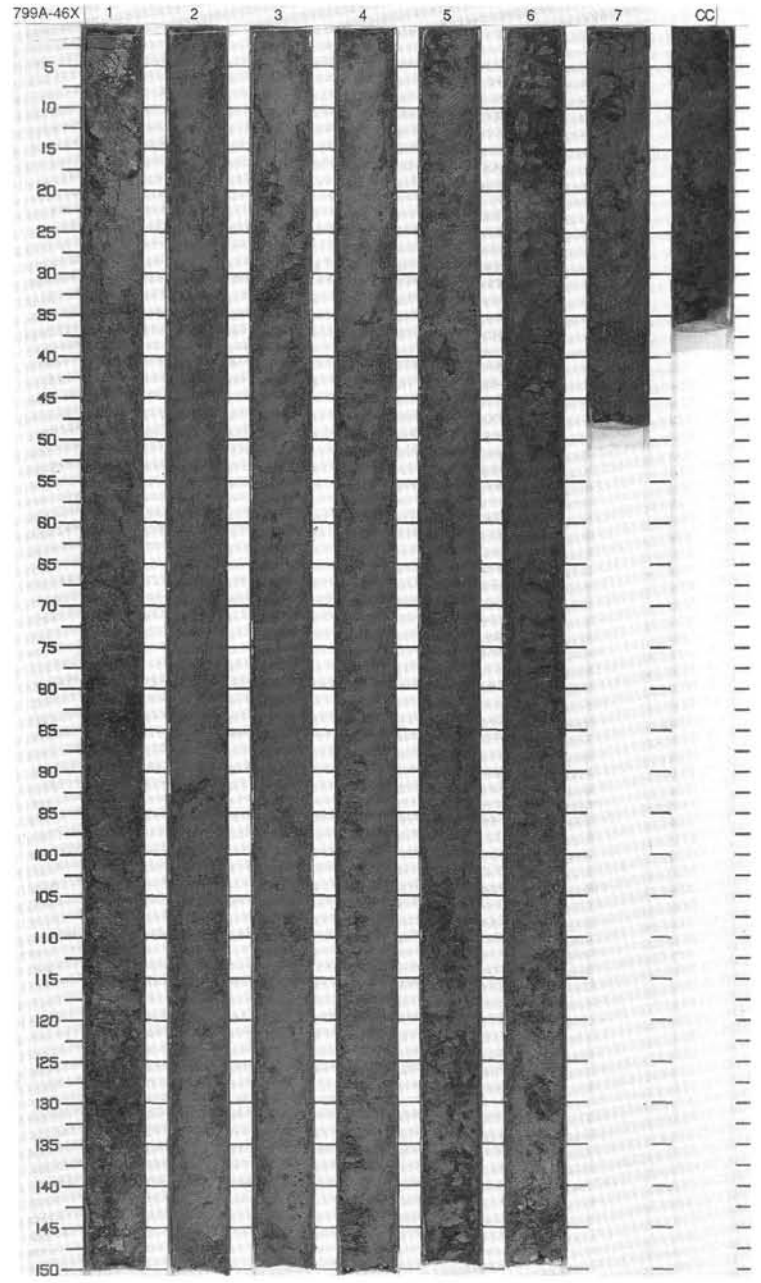
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER		SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS						
MIOCENE ?								
R/P	B							
B								
F/P								
B								
			N N					
				0.74.0				
				2.1.4.4				
				%CaCO ₃ =3.3				
				%SiO ₂ =1.65				
				%K ₂ O=2.60				
				%Na ₂ O=1.23				
				%Fe ₂ O ₃ =1.39				
				%MgO=0.67				
			N					
			CC					



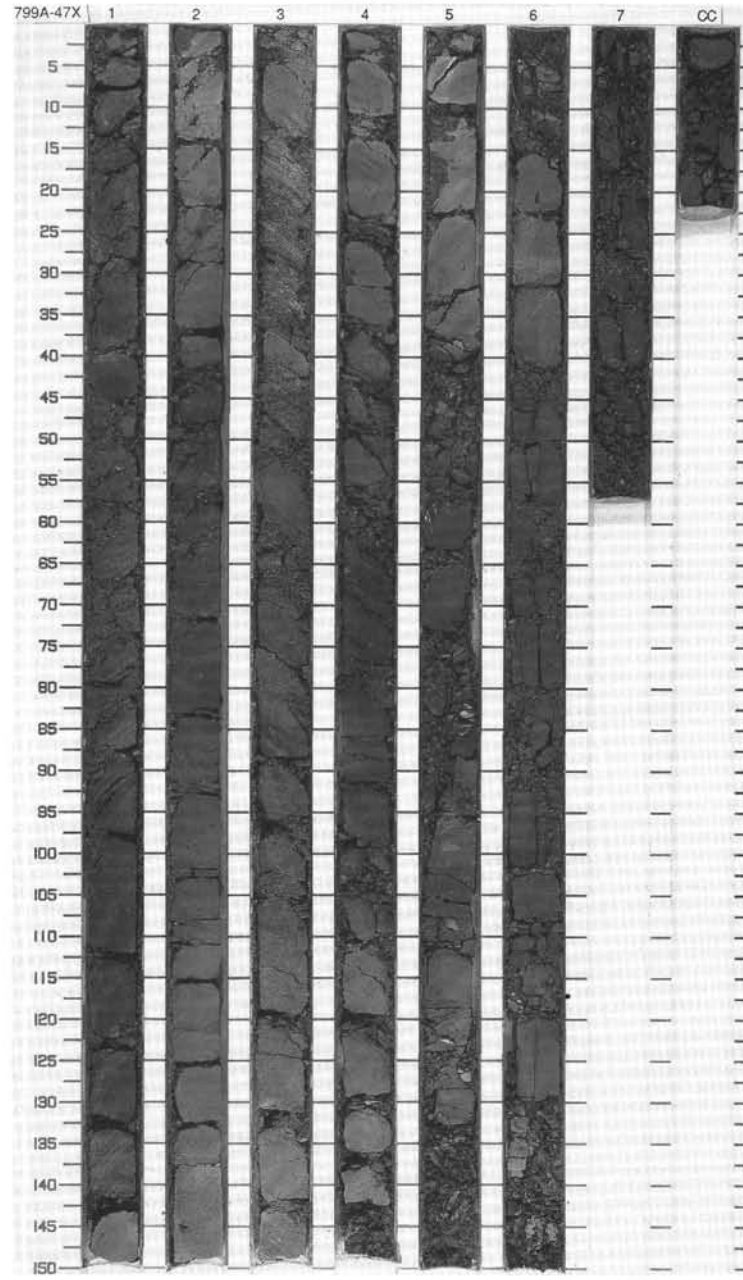


SITE 799 HOLE A CORE 46X CORED INTERVAL 2486.6-2496.3 mbsl; 413.6-423.3 mbsf

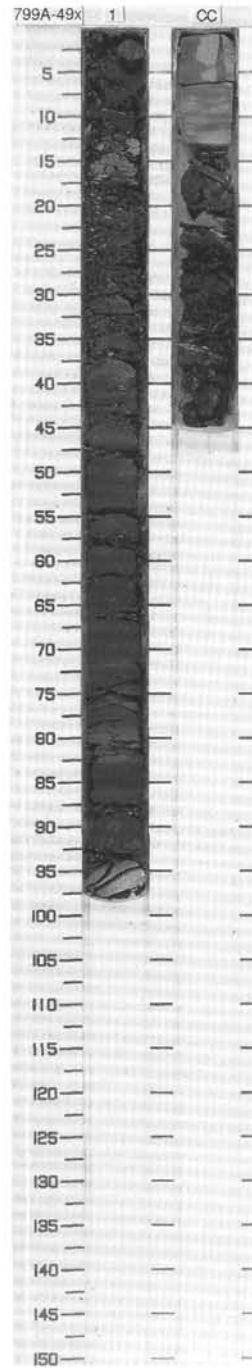
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIocene ?										Extreme drilling disturbance.
R/P					0.5					DIATOMACEOUS OOZE, CLAYEY BIOSILICEOUS MIXED-SEDIMENT and BIOSILICEOUS CLAY
B					1.0					Major lithology: This core consists of olive gray (5Y 4/1-5Y 4/2) DIATOMACEOUS OOZE with SILT and CLAY; dark olive gray (5Y 3/2) CLAYEY BIOSILICEOUS OOZE with NANNOFOS-SILS, CARBONATE, and SILT; and CLAY with SILT and DIATOMS.
R/M	<i>Trocosphaera japonica</i> ?				1.5					Minor lithologies: a. Thin laminations and scattered pods of brownish yellow (10YR 6/6) CHALK and CHALK with DIATOMS and CLAY are conspicuous throughout, although forming less than 1% of the core. b. A conspicuous interval of black (5Y2.5/1) platy to hackly fractured sediment is present in Section 1, 80-88 cm. X-ray diffraction shows that it contains opal-CT.
C/P	?				2.0					
R/M	?				2.5					
					3.0					
					3.5					
					4.0					
					4.5					
					5.0					
					5.5					
					6.0					
					6.5					
					7.0					
CC					7.5					



TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER		INT	INT	INT	INT	INT	INT	INT	INT	INT	INT	INT	PALEOMAGNETICS PHYS. PROPERTIES CHEMISTRY SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMIFERS																
	NAKNOFOSSILS																
	RADIOLARIANS																
	DIATOMS																
	BIACALINELLIDS																
	DIATOMS																
	DIATOMS																
	DIATOMS																
	DIATOMS																
B	MIOCENE ?																
B	<i>Thecosphaera japonica</i> ?																
RM	?																
C/P	?																
R/M																	
	● p-73.1																
	● p-71.50																
	● p-76.1																
	● XCCO-2.70																
	● X10C-1.89																
	● p-77.5																
	● p-71.48																
	● p-72.6																
	● p-72.5																
	● XCCO-9.70																
	● X10C-1.73																
	● p-70.0																
	● p-71.56																
	● XCCO-3.10																
	● X10C-1.26																
	● p-75.8																
	● p-75.9																
	● XCCO-3.70																
	● X10C-2.15																

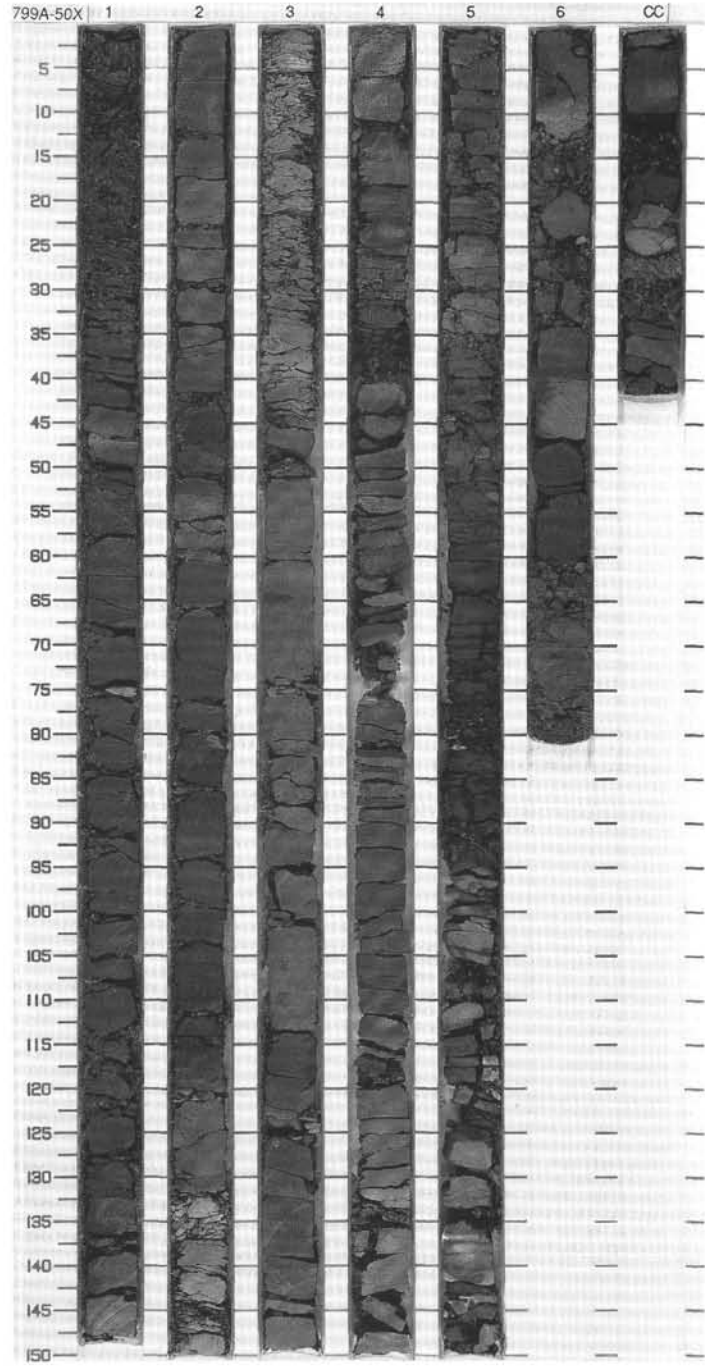


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	SILICOFLAGELLATES/FERRIDIANS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																
MIOCENE				<i>Thecosphaera japonica</i> ?	?	?	R	0-1.3 0.7-0.1 2-2.72 1.5-2	CC-0-3 X-0-2.83	CC						<p>CLAYEY BIOSILICEOUS MIXED SEDIMENT and BIOSILICEOUS CLAY</p> <p>Major lithology: This core contains mainly olive gray (5Y 4/2) CLAYEY BIOSILICEOUS MIXED SEDIMENT with INORGANIC CARBONATE, and very dark gray (5Y 3/1) BIOSILICEOUS CLAY with INORGANIC CARBONATE. Faint laminations are visible at Section 1, 83-88 cm; otherwise the major lithologies are homogeneous.</p> <p>Minor lithologies: a. Olive (5Y 4/3) BIOSILICEOUS CHALK with CLAY occurs at Section 1, 43-47 cm, and 79-82 cm b. An olive (5Y 4/3) DOLOMITE with CLAY occurs at the base of Section 1, 94-97 cm, and in the core catcher, 0-13 cm. The dolomite is laminated and also shows faint traces of bioturbation.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <thead> <tr> <th></th> <th>1, 16 D</th> <th>1, 81 M</th> <th>CC, 7 M</th> <th>CC, 34 D</th> </tr> </thead> <tbody> <tr> <td>TEXTURE:</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Silt</td> <td>65</td> <td>75</td> <td>65</td> <td>60</td> </tr> <tr> <td>Clay</td> <td>35</td> <td>25</td> <td>35</td> <td>40</td> </tr> <tr> <td>COMPOSITION:</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Calcite/Dolomite</td> <td>15</td> <td>50</td> <td>—</td> <td>20</td> </tr> <tr> <td>Clay</td> <td>30</td> <td>20</td> <td>16</td> <td>37</td> </tr> <tr> <td>Diatoms</td> <td>25</td> <td>15</td> <td>Tr</td> <td>10</td> </tr> <tr> <td>Dolomite</td> <td>—</td> <td>—</td> <td>75</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Glass</td> <td>3</td> <td>—</td> <td>2</td> <td>2</td> </tr> <tr> <td>Opagues</td> <td>2</td> <td>3</td> <td>2</td> <td>3</td> </tr> <tr> <td>Quartz</td> <td>2</td> <td>—</td> <td>5</td> <td>1</td> </tr> <tr> <td>Silicoflagellates</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Spicules</td> <td>20</td> <td>10</td> <td>Tr</td> <td>13</td> </tr> <tr> <td>Unknown</td> <td>—</td> <td>—</td> <td>—</td> <td>9</td> </tr> </tbody> </table>		1, 16 D	1, 81 M	CC, 7 M	CC, 34 D	TEXTURE:					Silt	65	75	65	60	Clay	35	25	35	40	COMPOSITION:					Calcite/Dolomite	15	50	—	20	Clay	30	20	16	37	Diatoms	25	15	Tr	10	Dolomite	—	—	75	—	Foraminifers	Tr	—	—	—	Glass	3	—	2	2	Opagues	2	3	2	3	Quartz	2	—	5	1	Silicoflagellates	Tr	—	—	—	Spicules	20	10	Tr	13	Unknown	—	—	—	9
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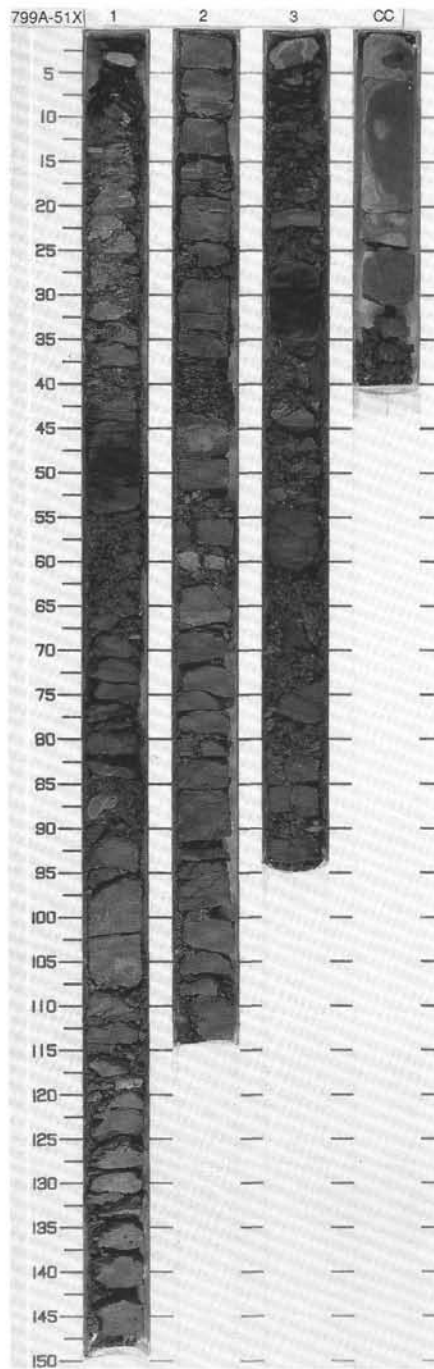


SITE 799 HOLE A CORE 50X CORED INTERVAL 2525.3-2534.9 mbsf; 452.3-461.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION	
	FORAMINIFERS	NAPOFOSSILS											? C/P
	RADIOLARIANS	DIATOMS											
	SILICOFLAGELLATES/EBRIDIANAS	LATES/EBRIDIANAS											
MIOCENE ?													
B												Moderate drilling disturbance.	
B												* DIATOMACEOUS CLAYEY MIXED SEDIMENT, SILICEOUS CLAYSTONE, and OPAL-CT PORCELANITE and CHERT	
B												Major lithology: The upper part of this core through Section 4, 18 cm consists mainly of olive gray (SY 4/2), olive (SY 4/3), gray (SY 5/1), dark gray (SY 4/1), and dark olive gray (SY 3/2) DIATOMACEOUS CLAYEY MIXED SEDIMENT with some intervals containing minor (10-25%) components including authigenic carbonate, silt, and glass. The lower part of the core, from Section 4, 18 cm, through the core catcher, consists of dark olive gray (SY 3/2) opal-CT-bearing SILICEOUS CLAYSTONE, with numerous beds of black (SY 2.5/2) OPAL-CT PORCELANITE or CHERT. Most beds retain fragments of diatoms and spicules, with as much as 15% opal-A in Section 6, 69 cm.	
B												Minor lithologies: a. Pale yellow (SY 7/4), pale olive (SY 6/4), and olive (SY 5/4) CARBONATE CONCRETIONS and layers occur in Sections 1, 3, 5, 6, and core catcher. b. A layer of light gray (SY 7/2) VITRIC ASH occurs in Section 2, 132-137 cm, and a large pod of pale olive (SY 7/4) DIATOMACEOUS CLAYEY VITRIC ASH with CARBONATE is present in Section 2, 25-30 cm.	
												SMEAR SLIDE SUMMARY (%):	
												1, 41 1, 90 1, 113 2, 5 2, 23 2, 55 4, 24	
												TEXTURE:	
												D M M D M M D	
												Sand — 5 10 Tr 30 2 —	
												Silt 25 30 85 20 40 20 10	
												Clay 75 65 5 80 30 78 90	
												COMPOSITION:	
												Calcite/Dolomite — 15 — 10 10 5 —	
												Clay 48 37 — 36 25 37 15	
												Diatoms 48 37 — 35 25 37 —	
												Feldspar — — 10 — — — —	
												Fish — — — — — Tr —	
												Glass 2 10 88 5 40 10 —	
												Opal — — — — — — 75	
												Opaaues Tr — — 2 Tr 2 2	
												Pyrite — — 2 — — — —	
												Quartz 2 1 — 10 — 7 8	
												Radiolarians — — Tr — — — —	
												Silicoflagellates — — — — — Tr —	
												Spicules Tr — Tr 2 — 2 —	
												Unknown — — — — — Tr —	
												SMEAR SLIDE SUMMARY (%):	
												4, 90 5, 62 5, 140 6, 12 6, 69 6, 76	
												D D D M M D	
												TEXTURE:	
												Silt	
												Clay	
												80 80 90 35 80 85	
												COMPOSITION:	
												Calcite/Dolomite 5 5 Tr 90 Tr 5	
												Clay 32 52 15 10 56 32	
												Diatoms Tr Tr 2 — 15 —	
												Fish Tr Tr — — — —	
												Glaucanite — — — — Tr Tr	
												Opal 40 20 75 — 20 45	
												Opaaues 2 3 3 Tr 4 3	
												Pyrite — — — Tr — —	
												Quartz 20 20 5 — 5 15	



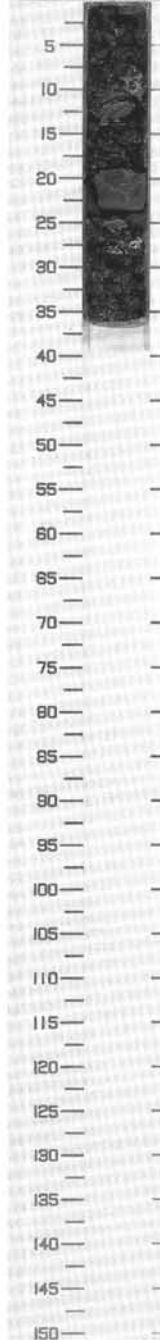
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																		
	FORAMINIFERS	MANNOFOSSILS	RADIOLARIANS	DIATOMS																																																																																																											
MIOCENE	B	B	R/M	B	INT	6-32.6 7-2.04 6-61.3 7-1.78 6-37.1 7-1.82 6-37.1 7-1.82 6-37.1 7-1.82	1	0.5					* Moderate drilling disturbance. * SILICEOUS CLAYSTONE * Major lithology: Olive gray, dark olive gray to very dark gray (5Y 4/2, 5Y 3/2 to 5Y 3/1) SILICEOUS CLAYSTONE is the dominant lithology in this core. The claystone is predominantly finely to thickly laminated and massive; some intervals, however, are bioturbated (e.g., Section 1, 111-150 cm). * Minor lithologies: a. Very dark gray (5Y 3/1) OPAL-CT PORCELANITE or CHERT beds occur in Section 1, 46-54 cm; Section 3, 28-35 cm, and core catcher, 0-5 cm. b. Pale brown (10YR 6/3) DOLOMITE beds appear in Section 1, 2-3 cm; Section 3, 1-5 cm, and core catcher, 5-30 cm. c. Olive gray (5Y 5/2) CARBONATE-rich intervals and nodules are present in Section 1 at 87-89 cm; Section 2 at 50, 54, 59-61, and 66-69 cm; Section 3 at 2-5, 6-7, 22-23, 35-43, and 52-54 cm. d. Prominent VITRIC ASH beds occur in Section 1 at 105-111 cm; Section 2 at 7-8 and 46-48 cm.																																																																																																		
						6-37.1 7-1.82 6-37.1 7-1.82	2	1.0					* SMEAR SLIDE SUMMARY (%): <table border="1"> <thead> <tr> <th></th> <th>1, 16 D</th> <th>1, 50 M</th> <th>1, 64 D</th> <th>1, 108 M</th> <th>3, 70 M</th> <th>CC, 3 M</th> </tr> </thead> <tbody> <tr> <td>Sand</td> <td>—</td> <td>—</td> <td>—</td> <td>2</td> <td>—</td> <td>—</td> </tr> <tr> <td>Silt</td> <td>15</td> <td>10</td> <td>15</td> <td>78</td> <td>10</td> <td>15</td> </tr> <tr> <td>Clay</td> <td>85</td> <td>90</td> <td>85</td> <td>20</td> <td>90</td> <td>85</td> </tr> </tbody> </table>		1, 16 D	1, 50 M	1, 64 D	1, 108 M	3, 70 M	CC, 3 M	Sand	—	—	—	2	—	—	Silt	15	10	15	78	10	15	Clay	85	90	85	20	90	85																																																																						
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SITE 799 HOLE A CORE 52X CORED INTERVAL 2539.9-2541.7 mbsl; 466.9-468.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																												
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										SILICOFLAGEL- LATES/EBRIDIANS	PALEOMAGNETICS																																										
MIocene	B	B	B	?	?		CC	▲▲▲▲▲ RUBBLE					<p>Moderate drilling disturbance.</p> <p>SILICEOUS CLAYSTONE and OPAL-CT PORCELANITE or CHERT</p> <p>Major lithology: The sediments in this core consist of dark olive gray (5Y 3/2) opal-CT-bearing SILICEOUS CLAYSTONE and OPAL-CT PORCELANITE or CHERT. Part of the porcelanite/ chert and some of the porcelaneous chips in the core catcher rubble have a black color; this color and an intensive oil odor is due to intense heating by drilling (estimated up to 600 degrees C).</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <thead> <tr> <th></th> <th>CC, 10 M</th> <th>CC, 22 M</th> <th>CC, 27 D</th> </tr> </thead> <tbody> <tr> <td>Silt</td> <td>15</td> <td>10</td> <td>15</td> </tr> <tr> <td>Clay</td> <td>85</td> <td>90</td> <td>85</td> </tr> </tbody> </table> <p>TEXTURE:</p> <p>COMPOSITION:</p> <table border="1"> <tbody> <tr> <td>Calcite/Dolomite</td> <td>3</td> <td>—</td> <td>4</td> </tr> <tr> <td>Clay</td> <td>37</td> <td>22</td> <td>46</td> </tr> <tr> <td>Diatoms</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Fish</td> <td>Tr</td> <td>Tr</td> <td>2</td> </tr> <tr> <td>Opal</td> <td>40</td> <td>65</td> <td>30</td> </tr> <tr> <td>Opagues</td> <td>5</td> <td>3</td> <td>3</td> </tr> <tr> <td>Quartz</td> <td>15</td> <td>10</td> <td>15</td> </tr> <tr> <td>Spicules</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> </tbody> </table>		CC, 10 M	CC, 22 M	CC, 27 D	Silt	15	10	15	Clay	85	90	85	Calcite/Dolomite	3	—	4	Clay	37	22	46	Diatoms	—	—	Tr	Fish	Tr	Tr	2	Opal	40	65	30	Opagues	5	3	3	Quartz	15	10	15	Spicules	—	—	Tr
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799A-52X CC



799B 1R NO RECOVERY

SITE 799 HOLE B CORE 2R CORED INTERVAL 2531.2-2540.9 mbsf; 459.5-469.2 mbsf

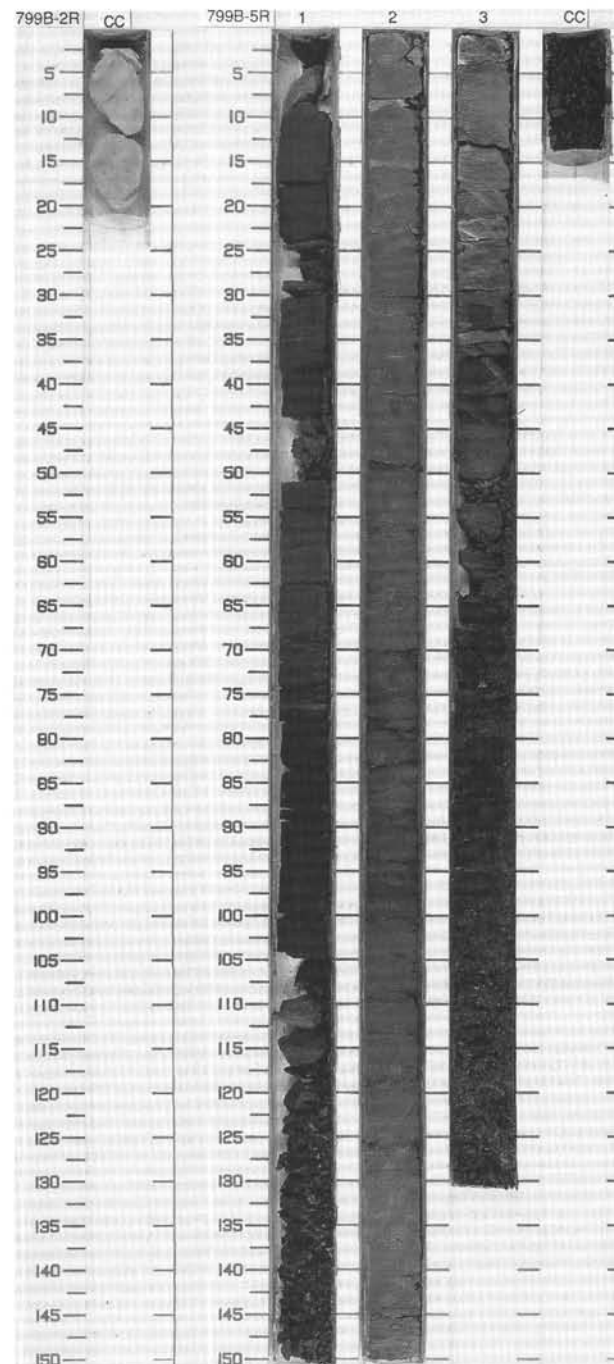
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NAKNOFOSSILS	RADIOLARIANS	DIATOMS	SILICOFLAGEL- LATES/FRIDIANS							
	A/P					C						Extreme drilling disturbance. DOLOMITE Major lithology: Recovery in this core was 22 cm of very dark gray (5Y 3/1) DOLOMITE.

799B 3R NO RECOVERY

799B 4R NO RECOVERY

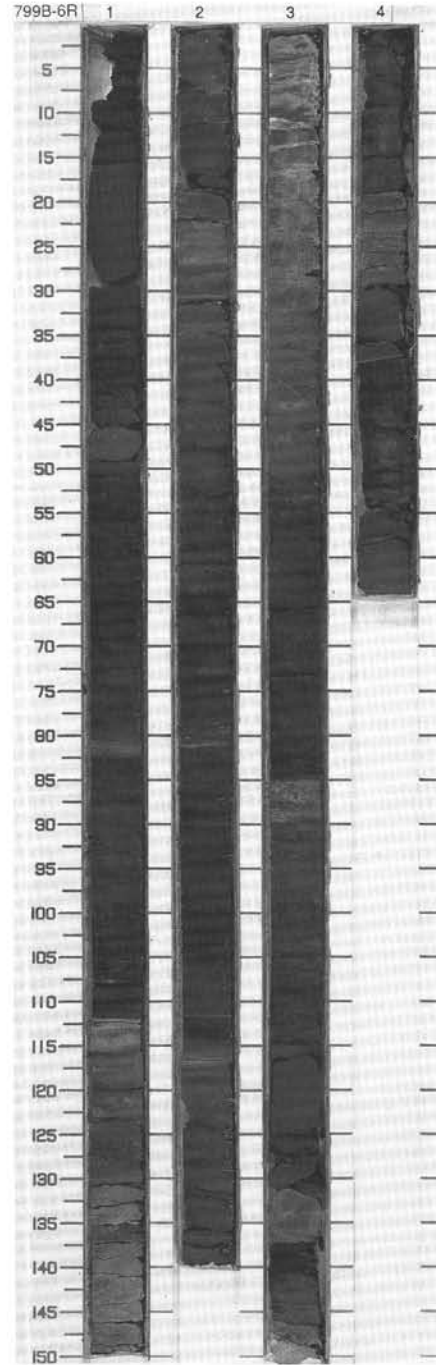
SITE 799 HOLE B CORE 5R CORED INTERVAL 2561.3-2566.3 mbsf; 489.6-494.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																
	FORAMINIFERS	NAKNOFOSSILS	RADIOLARIANS	DIATOMS	SILICOFLAGEL- LATES/FRIDIANS																																																							
UPPER MIOCENE ?												Moderate drilling disturbance. SILICEOUS CLAYSTONE Major lithology: This core consists of olive gray (5Y 4/2) to dark olive gray (5Y 3/2) SILICEOUS CLAYSTONE. Lighter colored, bioturbated intervals alternate with dark-colored, finely laminated or massive intervals. These rhythms are well developed in Section 1, and less obvious in Sections 2 and 3. Minor lithology: Olive gray PORCELLANITE is present in Section 1, 0-22 cm, and occurs interbedded with siliceous claystone in Section 1, 68-122 cm. SMEAR SLIDE SUMMARY (%): <table style="margin-left: 20px;"> <tr> <td></td> <td>1,20</td> <td>1,77</td> <td>3,44</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>M</td> </tr> </table> TEXTURE: <table style="margin-left: 20px;"> <tr> <td>Silt</td> <td>5</td> <td>10</td> <td>10</td> </tr> <tr> <td>Clay</td> <td>95</td> <td>90</td> <td>90</td> </tr> </table> COMPOSITION: <table style="margin-left: 20px;"> <tr> <td>Calcite/Dolomite</td> <td>Tr</td> <td>Tr</td> <td>5</td> </tr> <tr> <td>Clay</td> <td>15</td> <td>48</td> <td>39</td> </tr> <tr> <td>Diatoms</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Fish</td> <td>—</td> <td>Tr</td> <td>1</td> </tr> <tr> <td>Glass</td> <td>—</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Opal</td> <td>78</td> <td>40</td> <td>40</td> </tr> <tr> <td>Opauques</td> <td>2</td> <td>2</td> <td>5</td> </tr> <tr> <td>Quartz</td> <td>5</td> <td>10</td> <td>10</td> </tr> </table>		1,20	1,77	3,44	D	D	D	M	Silt	5	10	10	Clay	95	90	90	Calcite/Dolomite	Tr	Tr	5	Clay	15	48	39	Diatoms	—	—	Tr	Fish	—	Tr	1	Glass	—	Tr	—	Opal	78	40	40	Opauques	2	2	5	Quartz	5	10	10
	1,20	1,77	3,44																																																									
D	D	D	M																																																									
Silt	5	10	10																																																									
Clay	95	90	90																																																									
Calcite/Dolomite	Tr	Tr	5																																																									
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Diatoms	—	—	Tr																																																									
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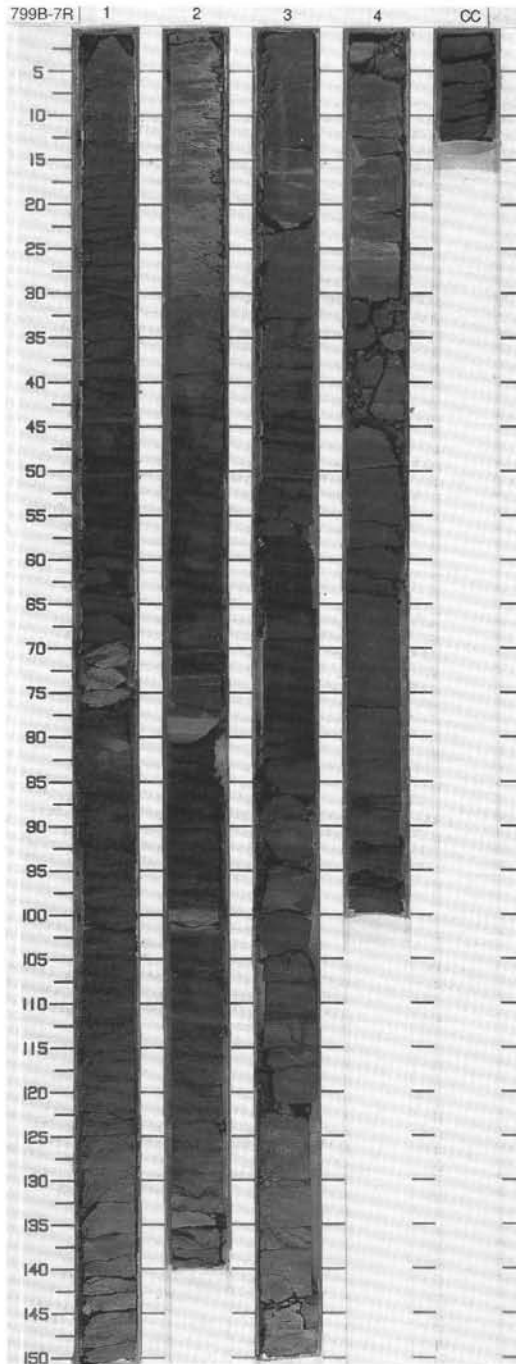
SITE 799 HOLE B CORE 6R CORED INTERVAL 2566.3-2571.4 mbsl; 494.6-499.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																								
	FORAMINIFERS	NAUPOSSILS	RADIOLARIANS	DIATOMS																																																																																	
UPPER MIOCENE (?)													<p>Moderately fractured by drilling.</p> <p>SILICEOUS CLAYSTONE</p> <p>Major lithology: This core consists of olive gray to dark olive gray (5Y 4/2, 5Y 3/2) SILICEOUS CLAYSTONE. The claystone is partly bioturbated, and partly planar laminated as in Section 1, 100-111 cm; and Section 3, 70-81 cm.</p> <p>Minor lithologies:</p> <p>a. Dark olive gray (5Y 3/2) PORCELLANITE occurs in Section 1, 0-50 cm; Section 4, 20-35 cm and 54-64 cm. Porcellanite alternates with siliceous claystone in Section 2, 0-20 cm; and Section 3, 115-140 cm.</p> <p>b. Thin beds and laminae of pale olive (5Y 6/4) CHALK and SILICEOUS CLAYSTONE with CARBONATE are interbedded with siliceous claystone in Section 1, 80-82 and 111-121 cm; Section 2, 22-26 and 117-119 cm; Section 3, 25-30 and 85-90 cm; and Section 4, 21-23, 37, and 53-54 cm.</p> <p>c. Reddish yellow (7.5YR 6/6) PHOSPHATE nodule (18 mm by 4 mm) is present in Section 1, 108 cm.</p> <p>d. A thin light brownish gray (10YR 6/2) AUTHIGENIC CARBONATE layer is present in Section 3, 148-150 cm.</p> <p>TW</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 55</td> <td>1, 107</td> <td>1, 112</td> <td>2, 24</td> <td>3, 70</td> </tr> <tr> <td></td> <td>D</td> <td>M</td> <td>M</td> <td>M</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Silt</td> <td>15</td> <td>3</td> <td>2</td> <td>20</td> <td>10</td> </tr> <tr> <td>Clay</td> <td>85</td> <td>97</td> <td>98</td> <td>80</td> <td>90</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Calcite/Dolomite</td> <td>2</td> <td>1</td> <td>90</td> <td>22</td> <td>22</td> </tr> <tr> <td>Clay</td> <td>38</td> <td>—</td> <td>7</td> <td>35</td> <td>35</td> </tr> <tr> <td>Diatoms</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Fish</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Opal</td> <td>40</td> <td>—</td> <td>—</td> <td>40</td> <td>40</td> </tr> <tr> <td>Opaque</td> <td>5</td> <td>1</td> <td>1</td> <td>3</td> <td>3</td> </tr> <tr> <td>Phosphate</td> <td>—</td> <td>95</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>15</td> <td>3</td> <td>2</td> <td>Tr</td> <td>Tr</td> </tr> </table>		1, 55	1, 107	1, 112	2, 24	3, 70		D	M	M	M	D	Silt	15	3	2	20	10	Clay	85	97	98	80	90	Calcite/Dolomite	2	1	90	22	22	Clay	38	—	7	35	35	Diatoms	Tr	—	—	—	—	Fish	Tr	—	—	—	—	Opal	40	—	—	40	40	Opaque	5	1	1	3	3	Phosphate	—	95	—	—	—	Quartz	15	3	2	Tr	Tr
		1, 55	1, 107	1, 112	2, 24	3, 70																																																																															
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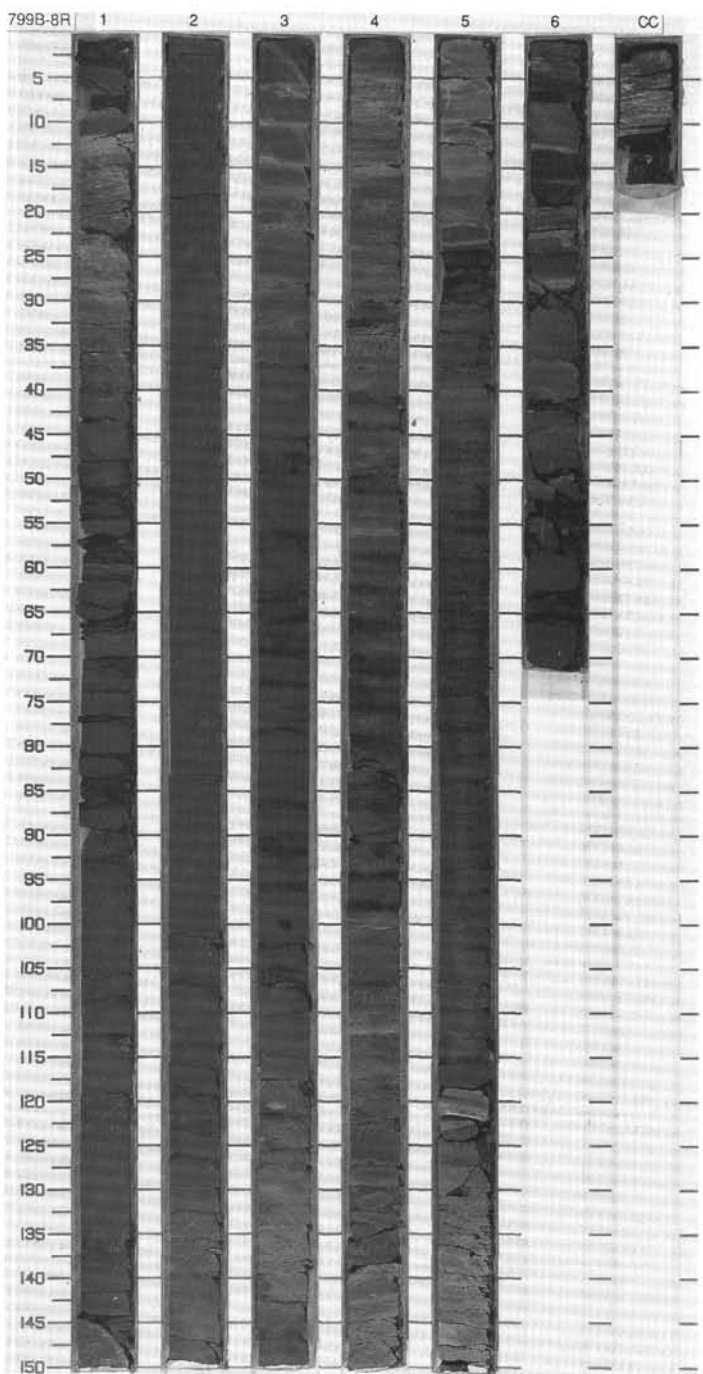
SITE 799 HOLE B CORE 7R CORED INTERVAL 2571.4 -2581.0 mbsf; 499.7-509.3 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER			SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	LITHOLOGIC DESCRIPTION				
UPPER MIOCENE (?)		FORAMIFERS	NANNOFOSSILS	RADIOLARIANS									
R/P-M	C/P	R/M	B										
		DIAZOTOPHITES	PHYC. PROPERTIES	CHEMISTRY		SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	LITHOLOGIC DESCRIPTION			
		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY									

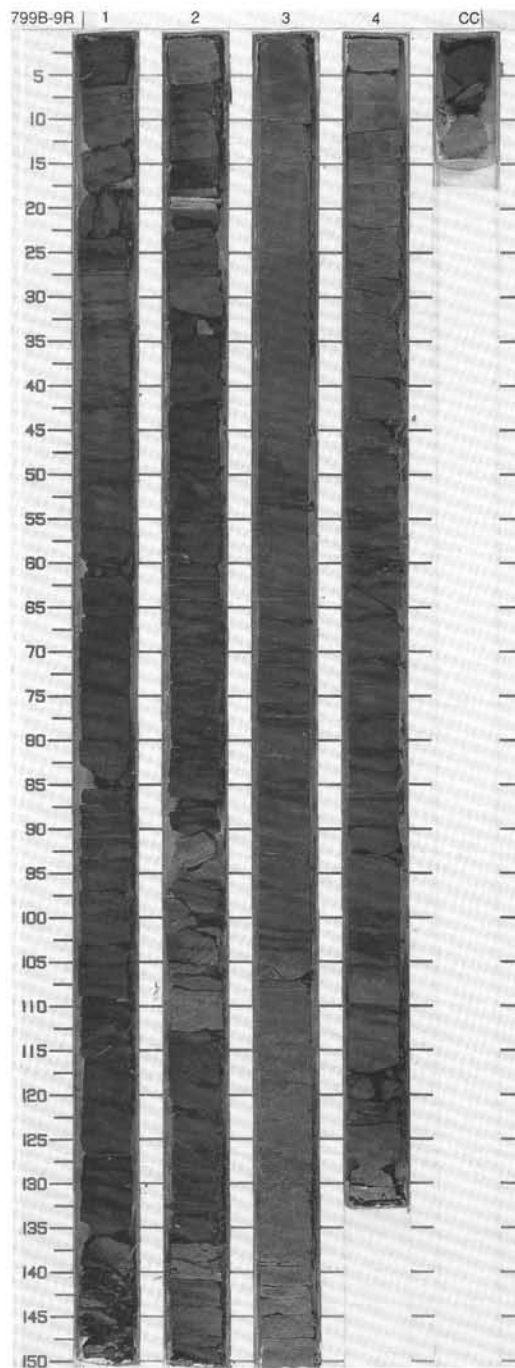


SITE 799 HOLE B CORE 8R CORED INTERVAL 2581.0-2590.7 mbsl; 509.3-519.0 mbsf

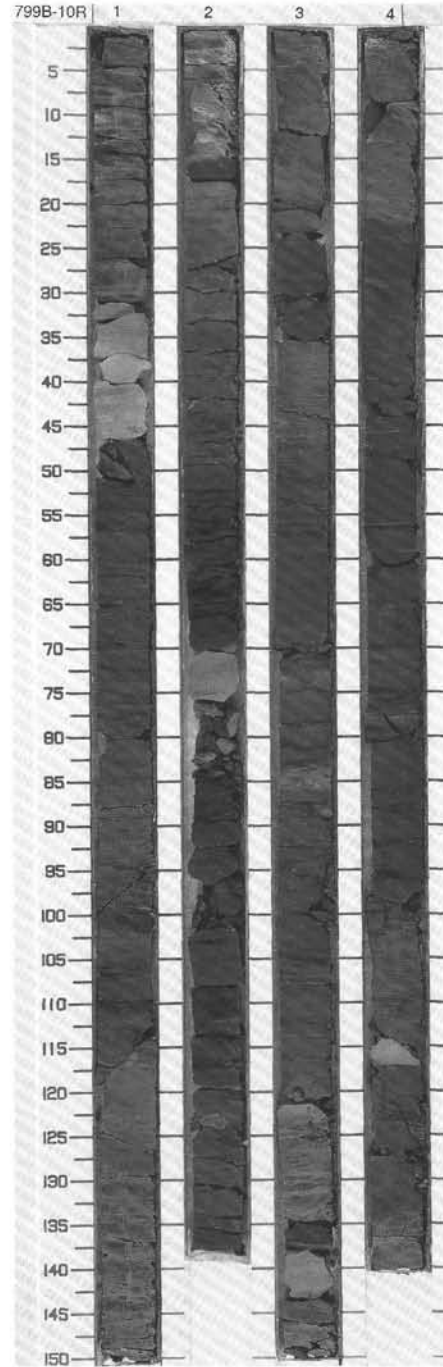
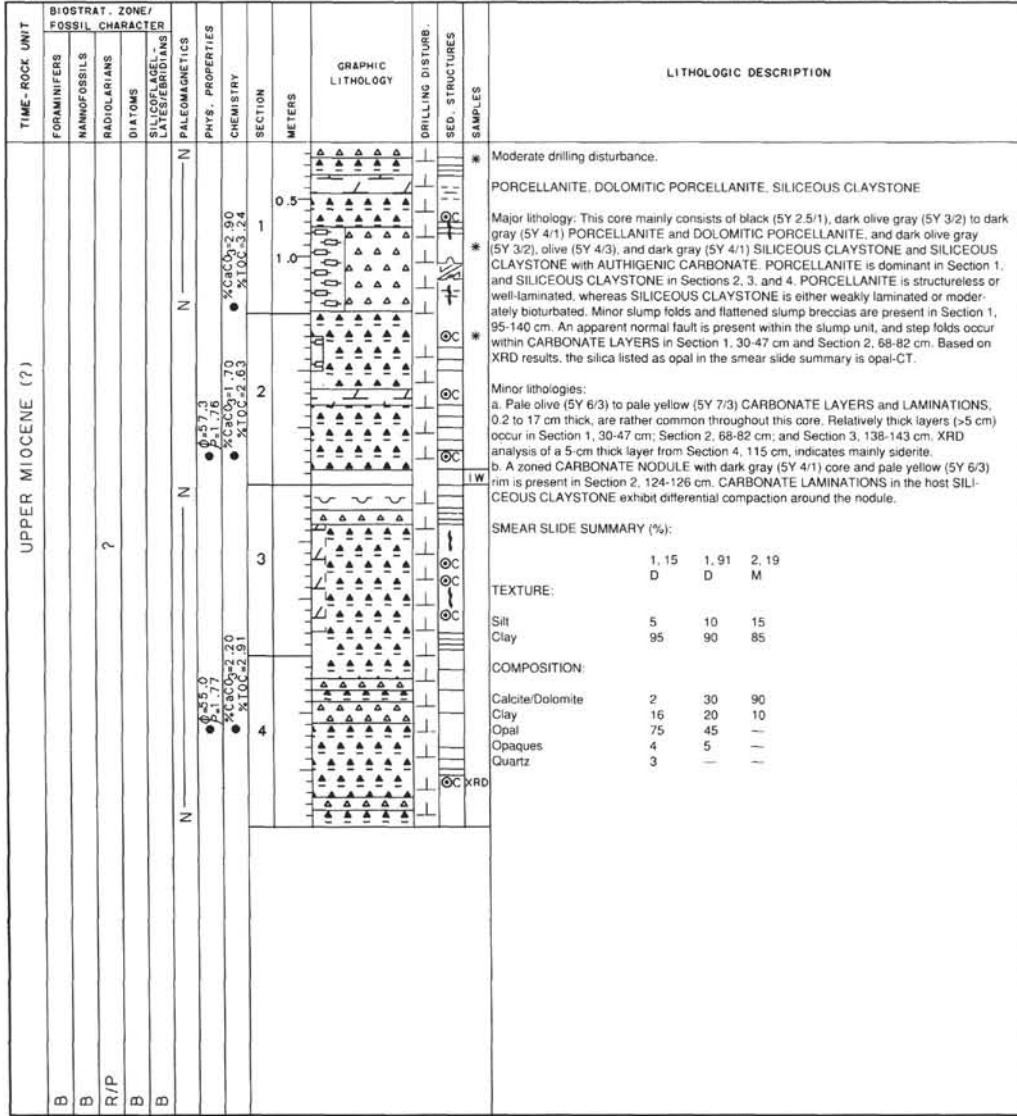
TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION	
FORAMINIFERS	MAMMOFOSSILS	RADIOLARIANS	DIATOMS							
UPPER MIOCENE (?)		?		N	0.55-3	▲▲▲▲▲▲▲▲▲▲ ▲▲▲▲▲▲▲▲▲▲	Slight drilling disturbance. PORCELLANITE, SILICEOUS CLAYSTONE Major lithology: This core mainly consists of dark olive gray (5Y 3/2) PORCELLANITE and SILICEOUS CLAYSTONE. Both lithologies are either massive or finely laminated. Bioturbation is only recorded in Section 4, 142-148 cm; Section 5, 123-132 cm; and Section 6, 33-38 cm. Minor lithology: Light olive gray (5Y 6/2) CARBONATE-rich intervals, nodules, and laminae occur in Section 1, 3-4, 6-9, 11-13, 28, 30, 33, 36, and 60-61 cm; Section 3, 121, 130-131, and 136 cm; Section 4, 4-5, 6-6.5, 7.5-8, 8.5-9, 13.5-15.5, 55-56, 99-101, and 111-113 cm; Section 5, 5-9, 15, 38-41, 49-50, and 118-123 cm; and Section 6, 21-25 and 27-30 cm.			
					5.1-6.3			* ▲▲▲▲▲▲▲▲▲▲		
					%CaCO ₃ =0.70 %SiO ₂ =2.88					
R/P		F/P			N			0.59-1	▲▲▲▲▲▲▲▲▲▲ ▲▲▲▲▲▲▲▲▲▲	SMEAR SLIDE SUMMARY (%): 1, 116 D TEXTURE: Silt 5 Clay 95 COMPOSITION: Calcite/Dolomite 2 Clay 26 Fish 1 Foraminifers Tr Opal 65 Opauques 1 Quartz 5
								5.1-6.0		
B		B						N		
				5.1-7.3						
B		B		N		0.49-5				
						5.1-7.3				
B		B			N	0.49-5				
						5.1-7.3				
B		B				N	0.49-5			
							5.1-7.3			
B		B		N			0.49-5			
							5.1-7.3			
B		B			N		0.49-5			
							5.1-7.3			

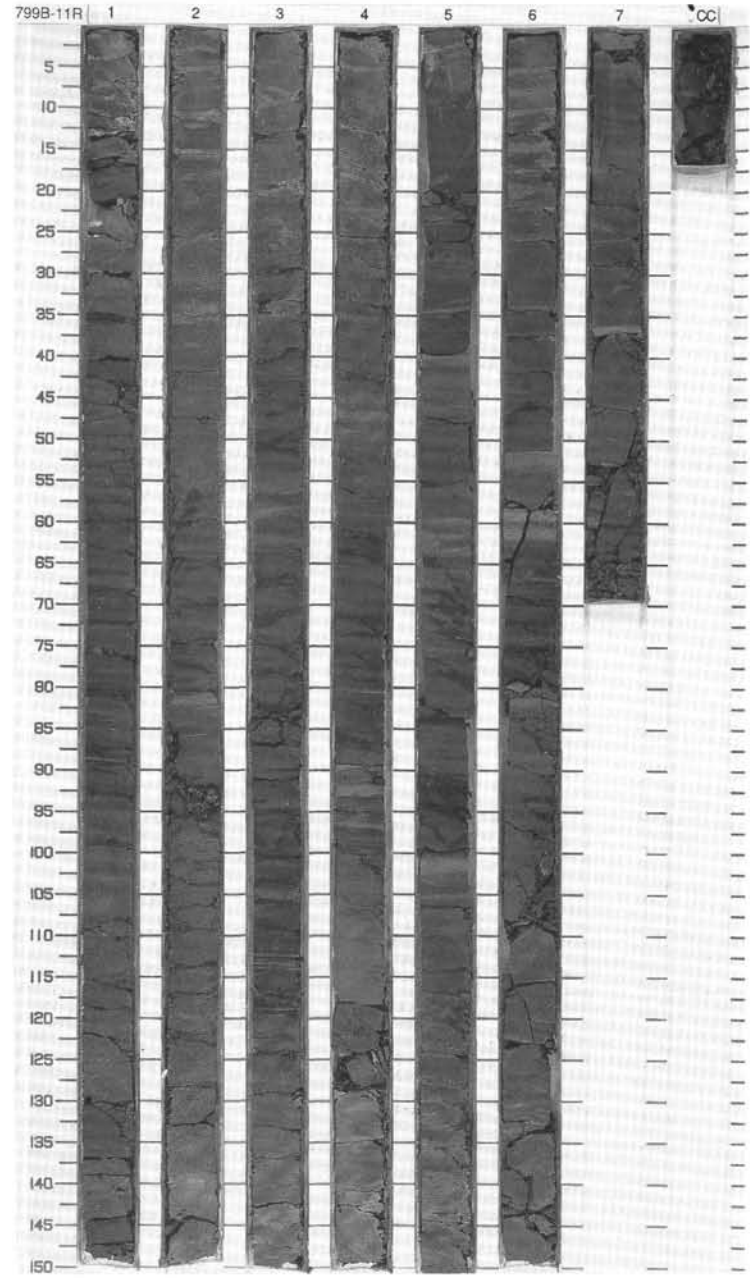
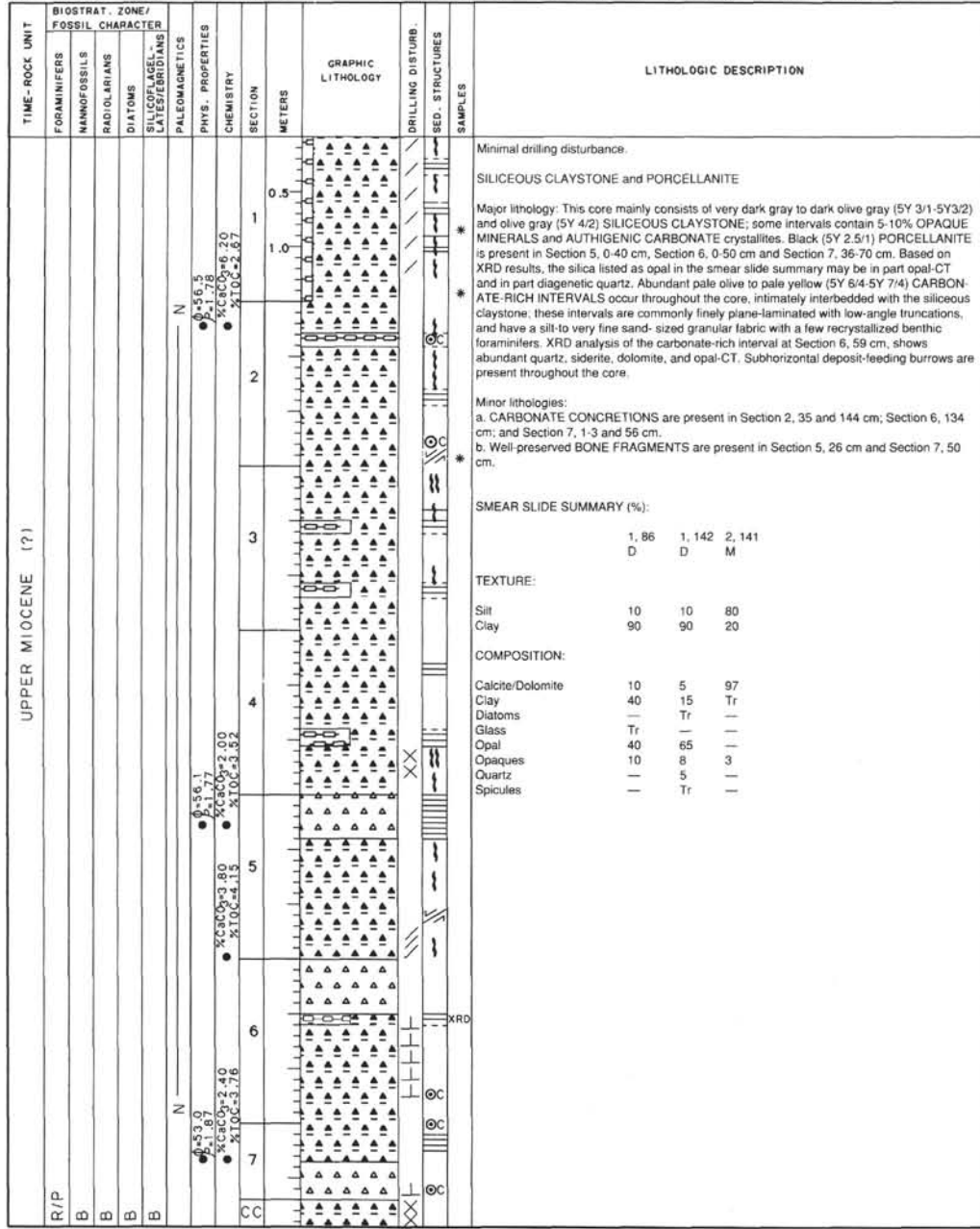


TIME - ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																								
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																																		
UPPER MIOCENE (?)	R/P	B	R/P	B	N			1	0.5					<p>* SILICEOUS CLAYSTONE, PORCELLANITE</p> <p>Major lithology: This core mainly consists of very dark olive (5Y 3/2), massive or finely laminated SILICEOUS CLAYSTONE. Bioturbation has only been recorded in Section 1, 30-43 cm; Section 3, 17-25 and 117-138 cm; and Section 4, 15-28 and 107-115 cm. A minor fault occurs in Section 4, 86-90 cm. Based on XRD results, the silica listed as opal in the smear slide summary is opal-CT.</p> <p>* Minor lithologies:</p> <p>a. Abundant light olive (5Y 6/2) CARBONATE-rich layers occur in Sections 1 to 3.</p> <p>b. Intervals of very dark gray (5Y 3/1)PORCELLANITE are intercalated in Section 1, 79-85 cm; Section 2, 89-101 cm; and Section 4, 81-92 and 114-117 cm.</p> <p>c. Section 1, 24-31 cm and Section 4, 124-129 cm consist of very dark gray (5Y 3/1) SILICEOUS CLAYSTONE with CARBONATE.</p> <p>d. Core Catcher, 8-14 cm consists of dark gray (5Y 4/1), finely laminated opal-CT CHERT.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 27</td> <td>1, 123</td> <td>4, 126</td> </tr> <tr> <td>M</td> <td></td> <td>D</td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>---</td> <td>---</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>10</td> <td>15</td> <td>15</td> </tr> <tr> <td>Clay</td> <td>90</td> <td>85</td> <td>80</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Calcite/Dolomite</td> <td>20</td> <td>---</td> <td>20</td> </tr> <tr> <td>Clay</td> <td>20</td> <td>35</td> <td>25</td> </tr> <tr> <td>Diatoms</td> <td>5</td> <td>---</td> <td>Tr</td> </tr> <tr> <td>Nannofossils</td> <td>5</td> <td>---</td> <td>2</td> </tr> <tr> <td>Opal</td> <td>40</td> <td>55</td> <td>35</td> </tr> <tr> <td>Opauques</td> <td>5</td> <td>5</td> <td>5</td> </tr> <tr> <td>Phosphate</td> <td>---</td> <td>Tr</td> <td>---</td> </tr> <tr> <td>Quartz</td> <td>3</td> <td>3</td> <td>10</td> </tr> <tr> <td>Spicules</td> <td>Tr</td> <td>Tr</td> <td>3</td> </tr> </table>		1, 27	1, 123	4, 126	M		D	M	Sand	---	---	5	Silt	10	15	15	Clay	90	85	80	Calcite/Dolomite	20	---	20	Clay	20	35	25	Diatoms	5	---	Tr	Nannofossils	5	---	2	Opal	40	55	35	Opauques	5	5	5	Phosphate	---	Tr	---	Quartz	3	3	10	Spicules	Tr	Tr	3
	1, 27	1, 123	4, 126																																																																			
M		D	M																																																																			
Sand	---	---	5																																																																			
Silt	10	15	15																																																																			
Clay	90	85	80																																																																			
Calcite/Dolomite	20	---	20																																																																			
Clay	20	35	25																																																																			
Diatoms	5	---	Tr																																																																			
Nannofossils	5	---	2																																																																			
Opal	40	55	35																																																																			
Opauques	5	5	5																																																																			
Phosphate	---	Tr	---																																																																			
Quartz	3	3	10																																																																			
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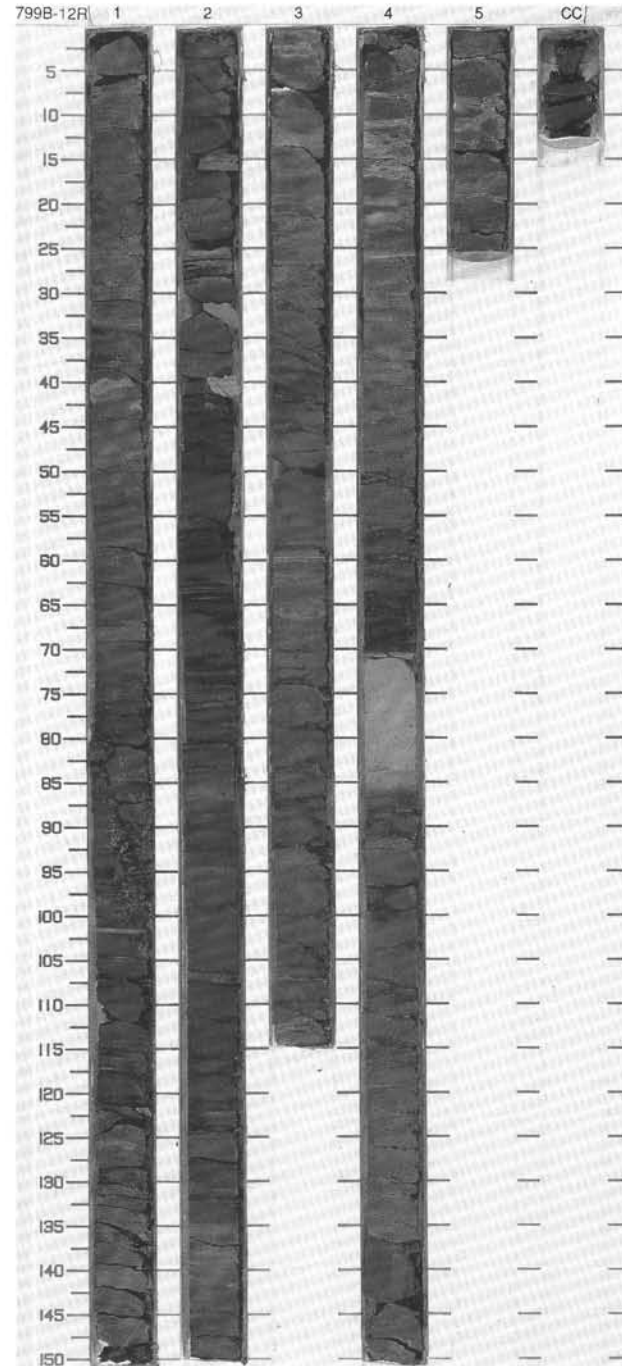
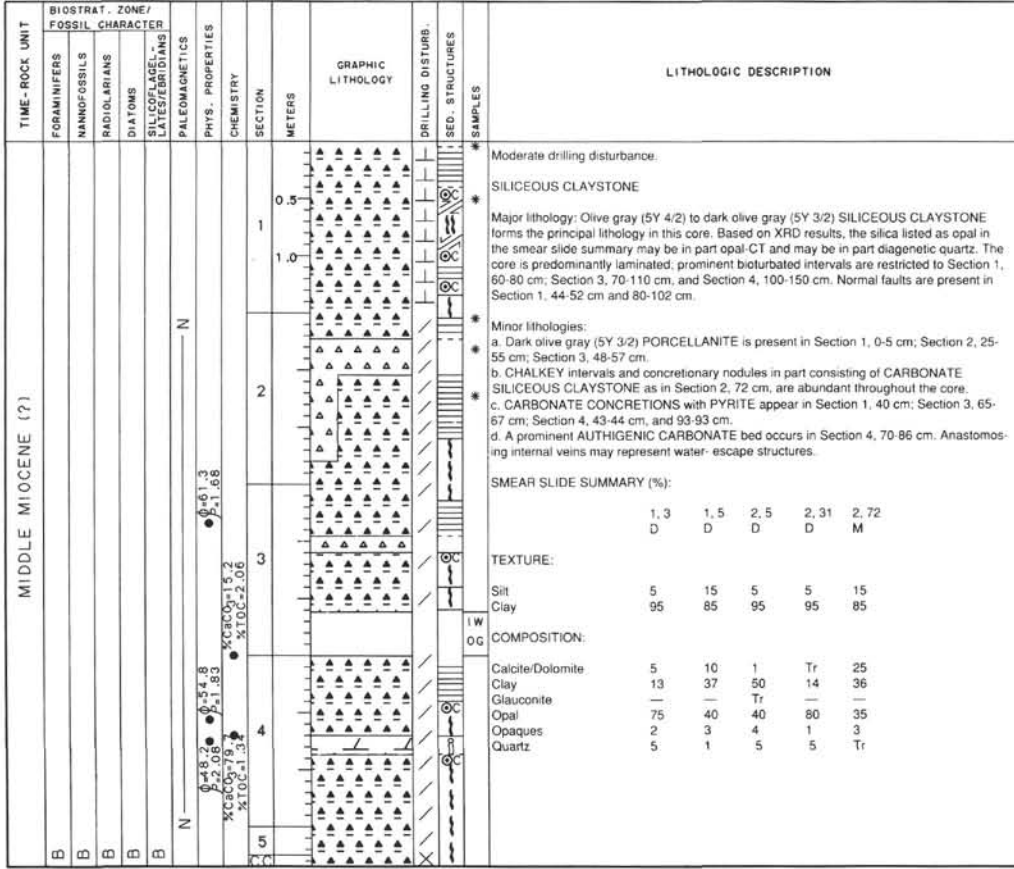


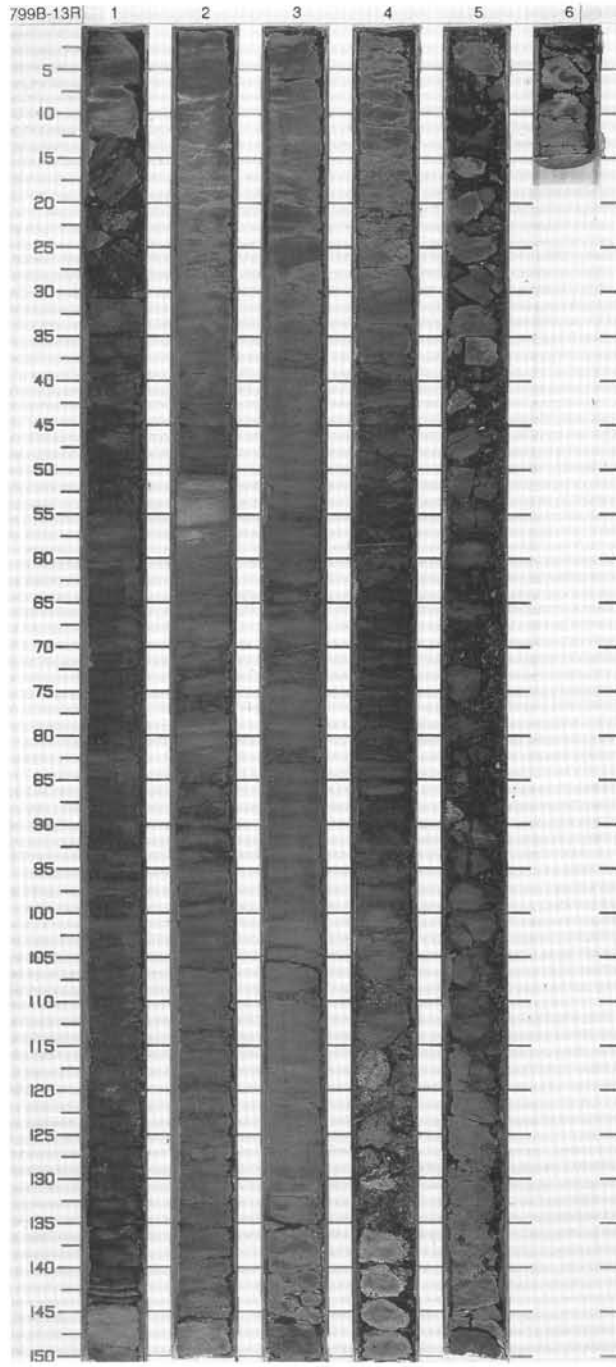
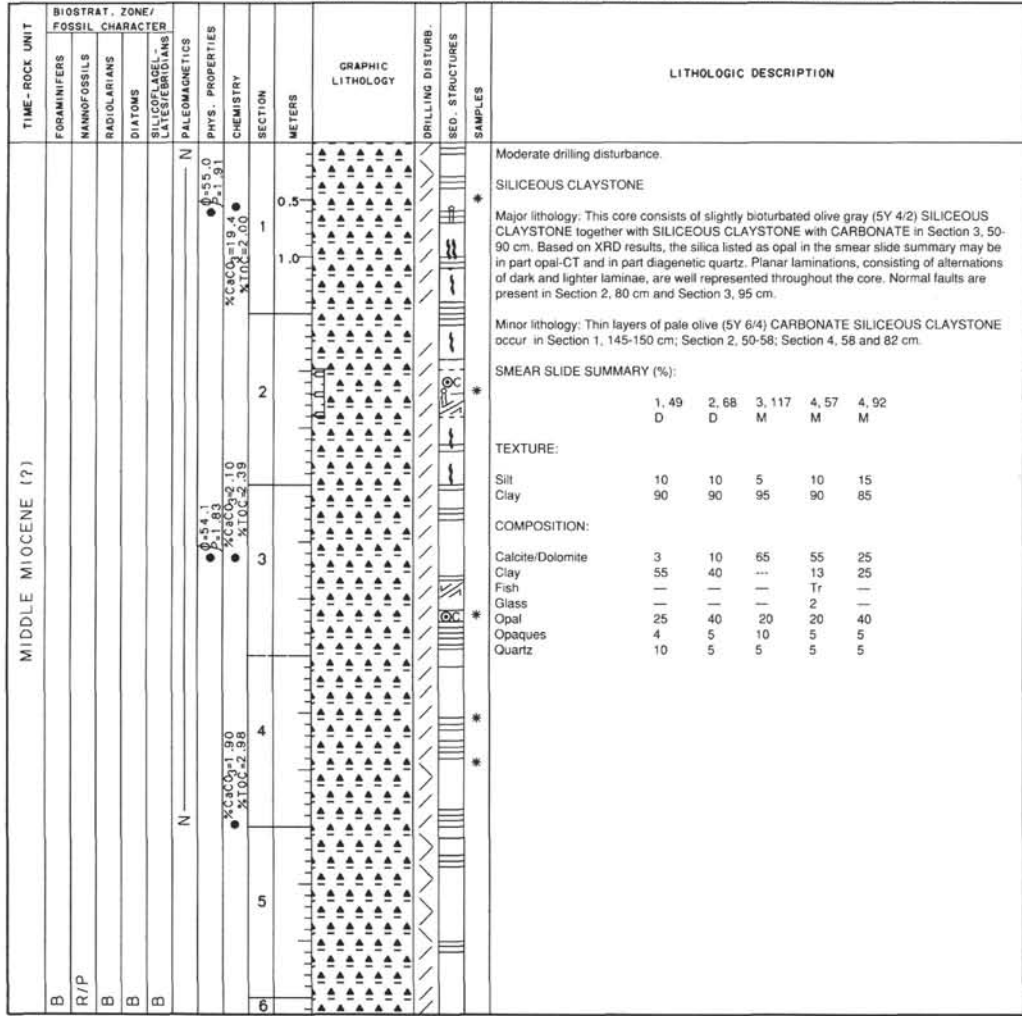
SITE 799 HOLE B CORE 10R CORED INTERVAL 2600.3-2610.0 mbsf; 528.6-538.3 mbsf





SITE 799 HOLE B CORE 12R CORED INTERVAL 2619.6-2629.3 mbsl; 547.9-557.6 mbsf





TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS								
MIDDLE MIOCENE (?)											
B											
R/P	?										
B											
B											
B											
CC											

CHEMISTRY

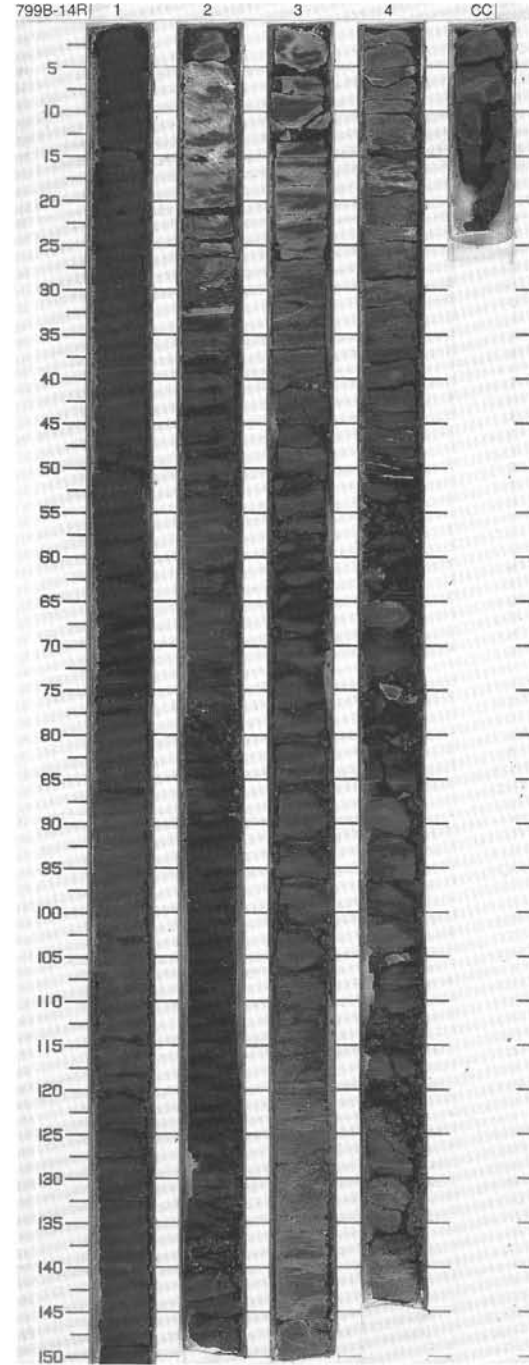
- Section 1: %CaCO₃ 14.7, %TOC 2.81
- Section 2: %CaCO₃ 1.20, %TOC 4.18
- Section 3: %CaCO₃ 8.30, %TOC 2.67

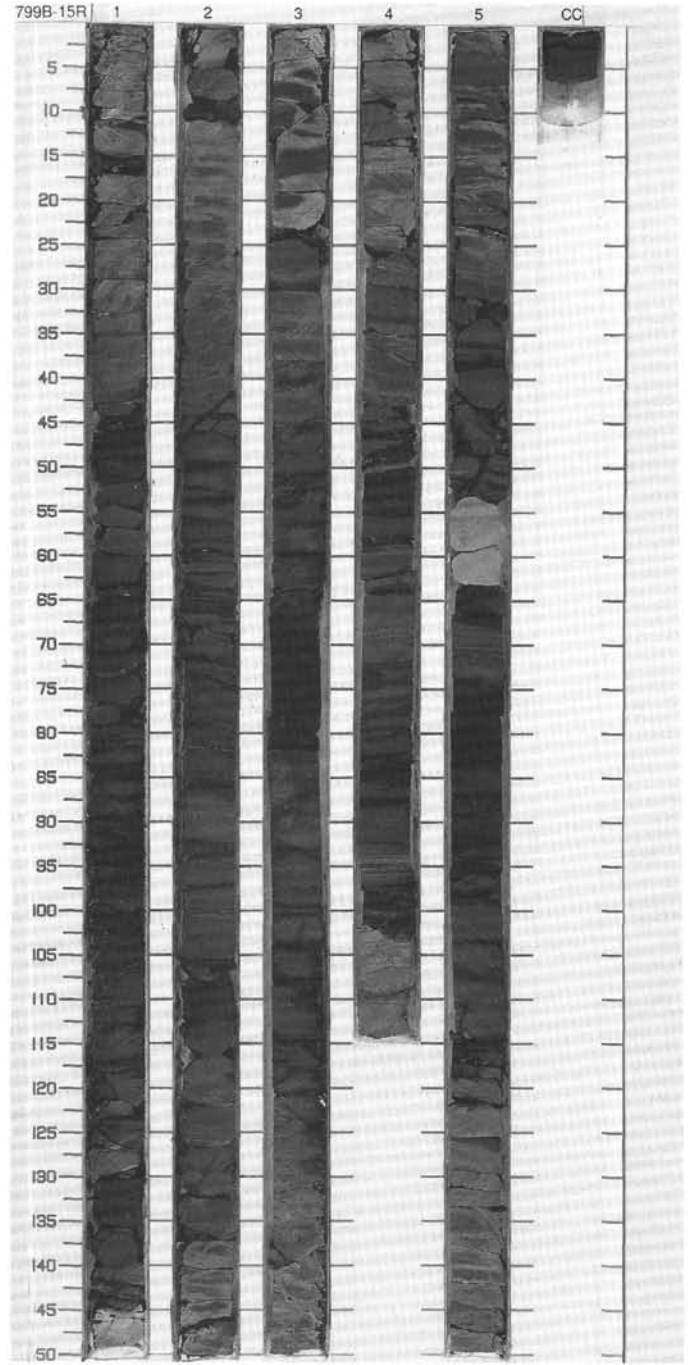
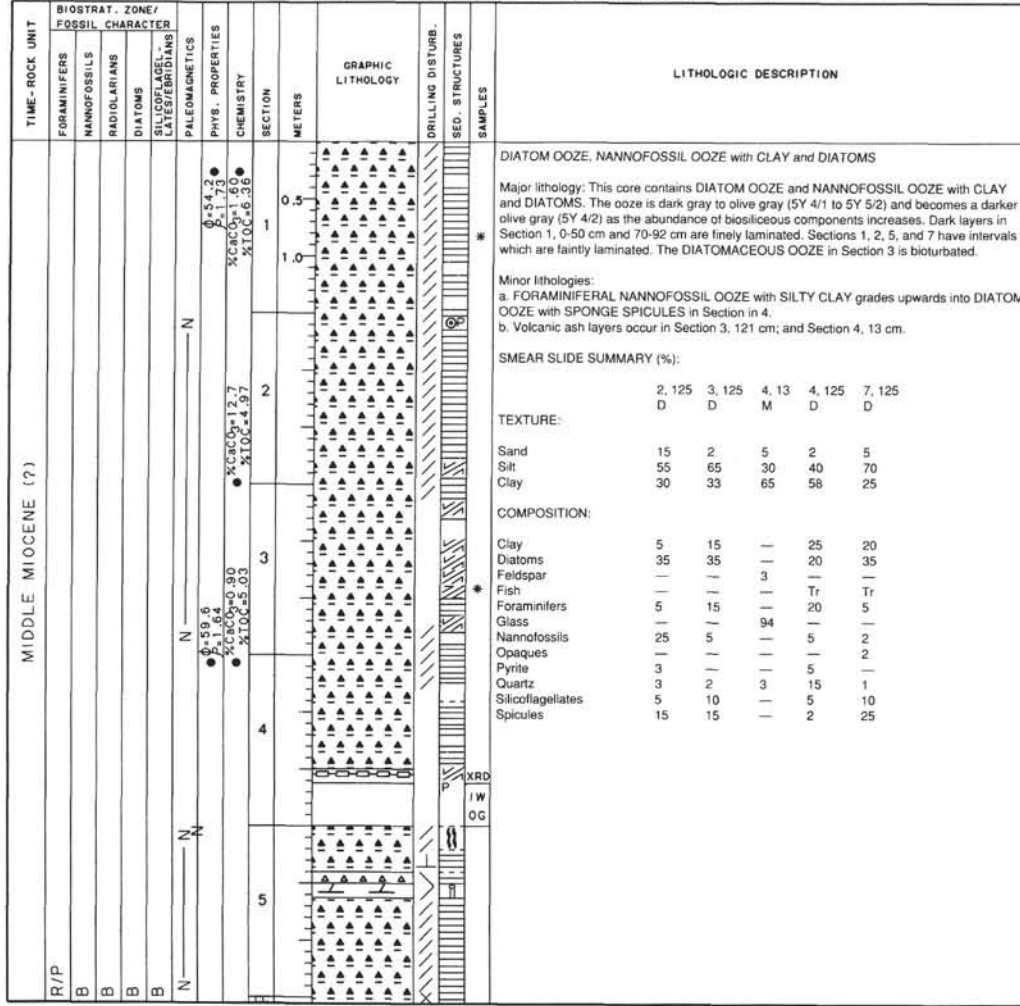
TEXTURE:

1,110	2,33	4,102	
D	M	D	
Silt	5	70	10
Clay	95	30	90

COMPOSITION:

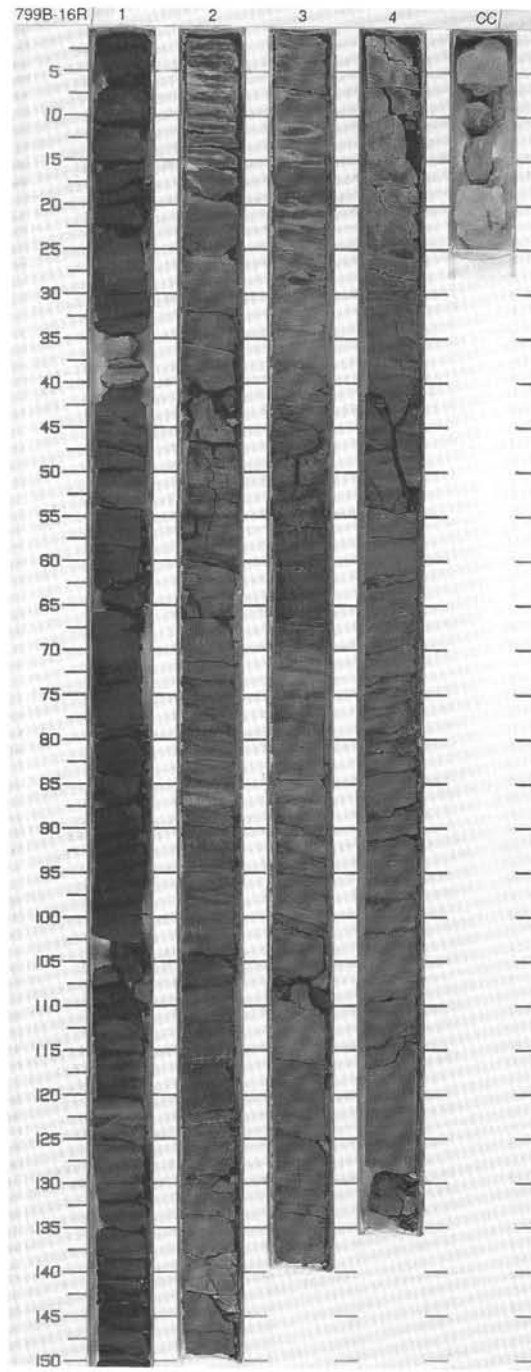
Calcite/Dolomite	5	—	5
Clay	45	20	42
Feldspar	—	6	—
Fish	—	—	Tr
Glass	—	60	—
Nannofossils	—	—	Tr
Opal	40	—	45
Opagues	5	—	3
Pyrite	—	8	—
Quartz	5	6	5



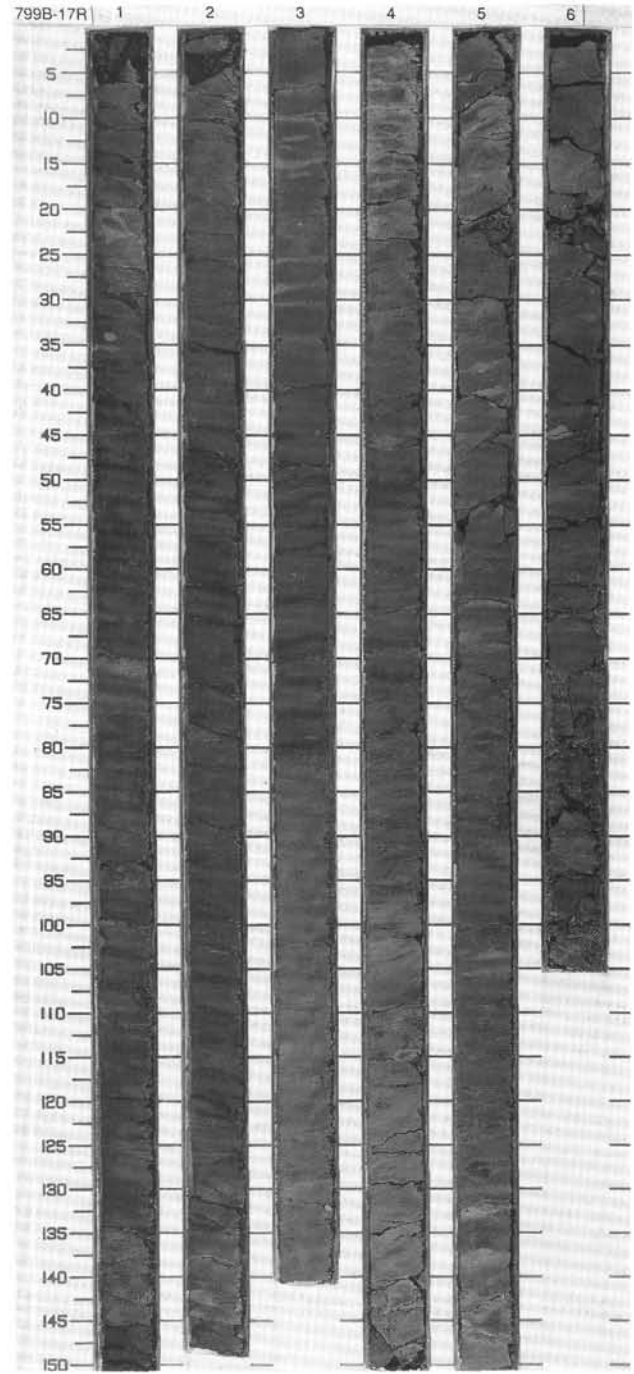


SITE 799 HOLE B CORE 16R CORED INTERVAL 2668.0-2648.7 mbsl; 586.6-596.3 mbsf

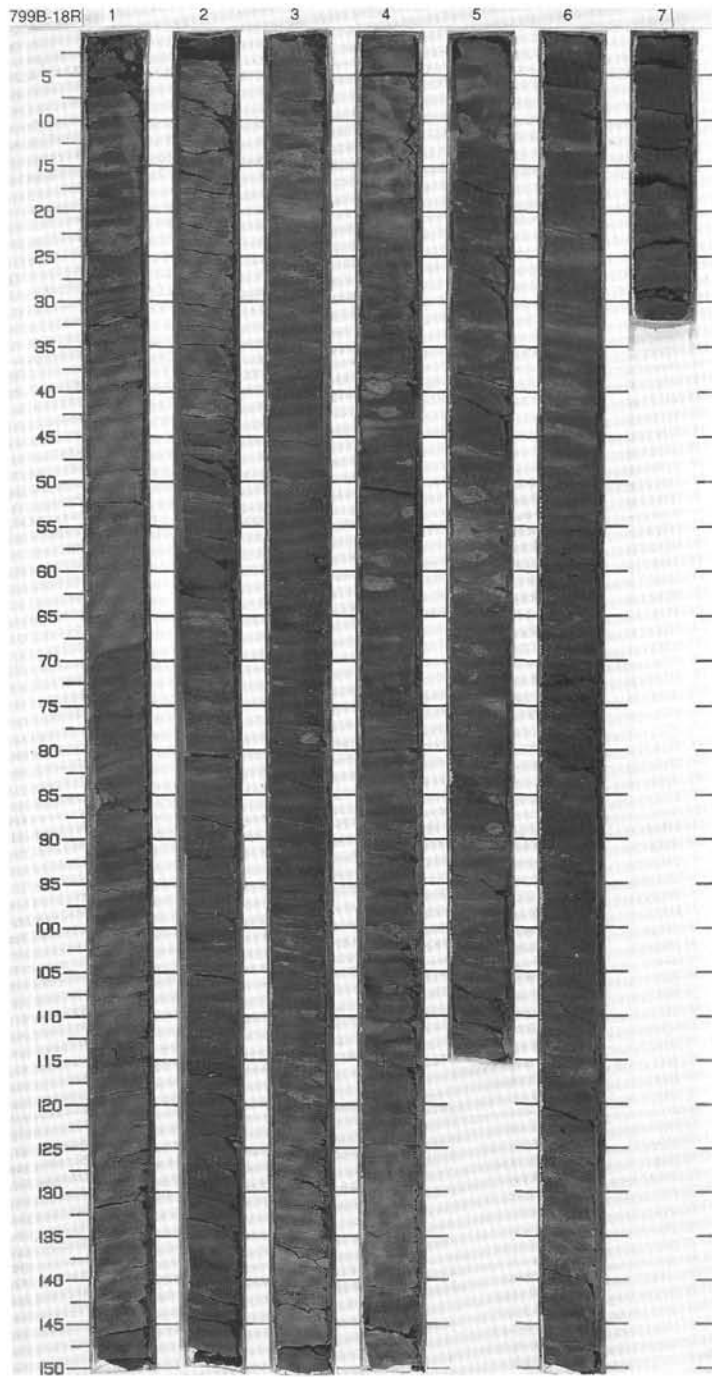
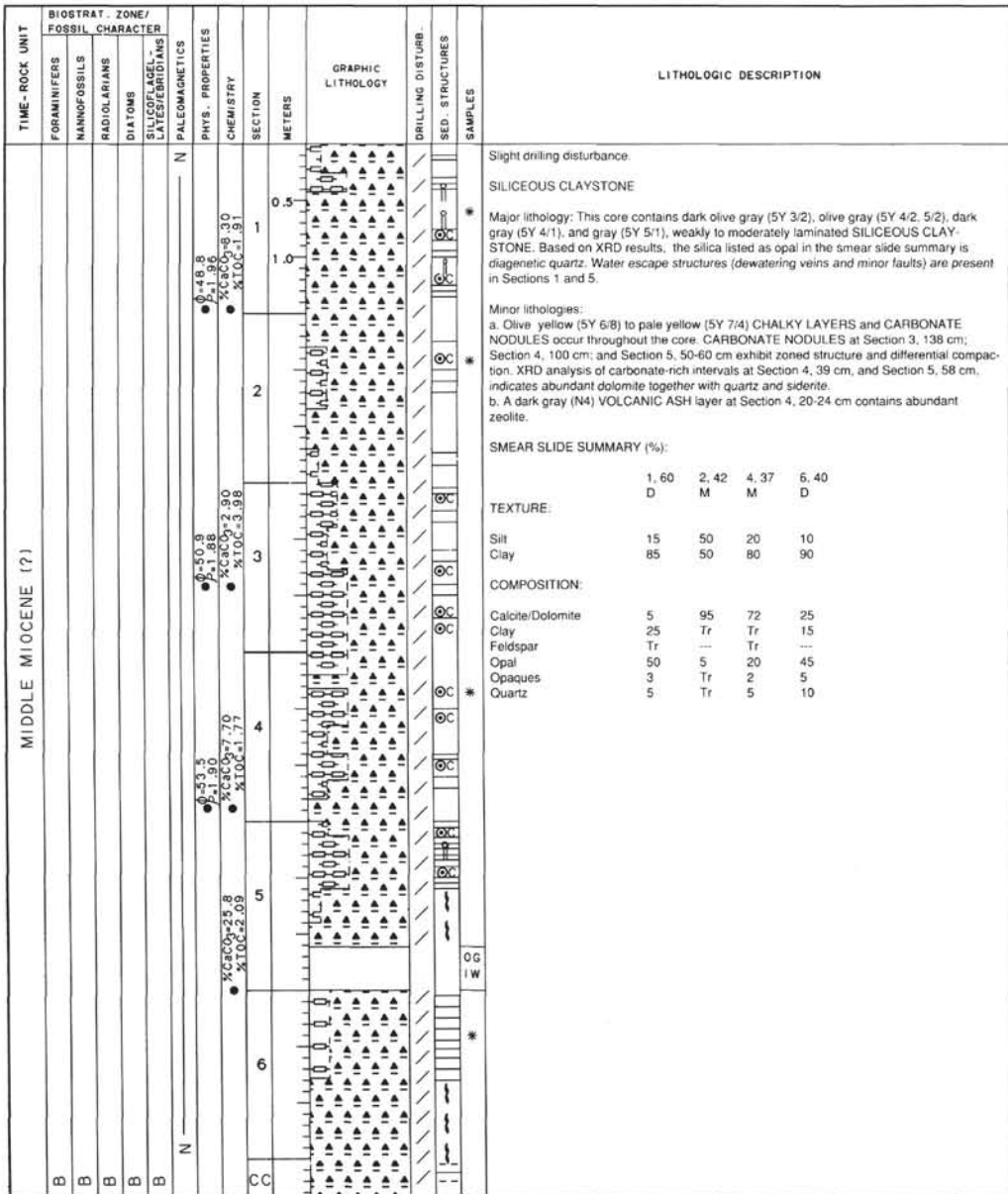
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																														
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONIS	DIATOMS																																							
MIDDLE MIOCENE (?)													* Slight drilling disturbance. SILICEOUS CLAYSTONE Major lithology: This core contains dark olive gray to olive gray (5Y 3/2-5Y 4/2) SILICEOUS CLAYSTONE. The sediment is extensively planar-laminated in Section 2 and 3. The core also has several arrays of water-escape veins and faults. Based on XRD results, the silica listed as opal in the smear slide summary is diagenetic quartz. Minor lithologies: a. Pale olive (5Y 6/4) SILICEOUS CLAYSTONE with CARBONATE occurs in thin beds in Section 2, 20, 25, and 85-87 cm. b. Pale olive (5Y 6/4) AUTHIGENIC CARBONATE is recovered in the core catcher and is present in a 2 cm thick layer in Section 4, 134-136 cm.																															
						0-7.5 %CaCO ₃ =0.90 %SiO ₂ =3.80		1	0.5 1.0				* * *	SMEAR SLIDE SUMMARY (%): <table border="1"> <tr> <td></td> <td>1, 23</td> <td>2, 93</td> </tr> <tr> <td>TEXTURE:</td> <td>D</td> <td>D</td> </tr> <tr> <td>Silt</td> <td>5</td> <td>5</td> </tr> <tr> <td>Clay</td> <td>95</td> <td>95</td> </tr> <tr> <td>COMPOSITION:</td> <td></td> <td></td> </tr> <tr> <td>Calcite/Dolomite</td> <td>1</td> <td>1</td> </tr> <tr> <td>Clay</td> <td>30</td> <td>46</td> </tr> <tr> <td>Opal</td> <td>60</td> <td>45</td> </tr> <tr> <td>Opalues</td> <td>4</td> <td>3</td> </tr> <tr> <td>Quartz</td> <td>5</td> <td>5</td> </tr> </table>		1, 23	2, 93	TEXTURE:	D	D	Silt	5	5	Clay	95	95	COMPOSITION:			Calcite/Dolomite	1	1	Clay	30	46	Opal	60	45	Opalues	4	3	Quartz	5	5
	1, 23	2, 93																																										
TEXTURE:	D	D																																										
Silt	5	5																																										
Clay	95	95																																										
COMPOSITION:																																												
Calcite/Dolomite	1	1																																										
Clay	30	46																																										
Opal	60	45																																										
Opalues	4	3																																										
Quartz	5	5																																										
						0-51.3 %CaCO ₃ =1.20 %SiO ₂ =3.80 %TiO ₂ =2.99		2																																				
								3																																				
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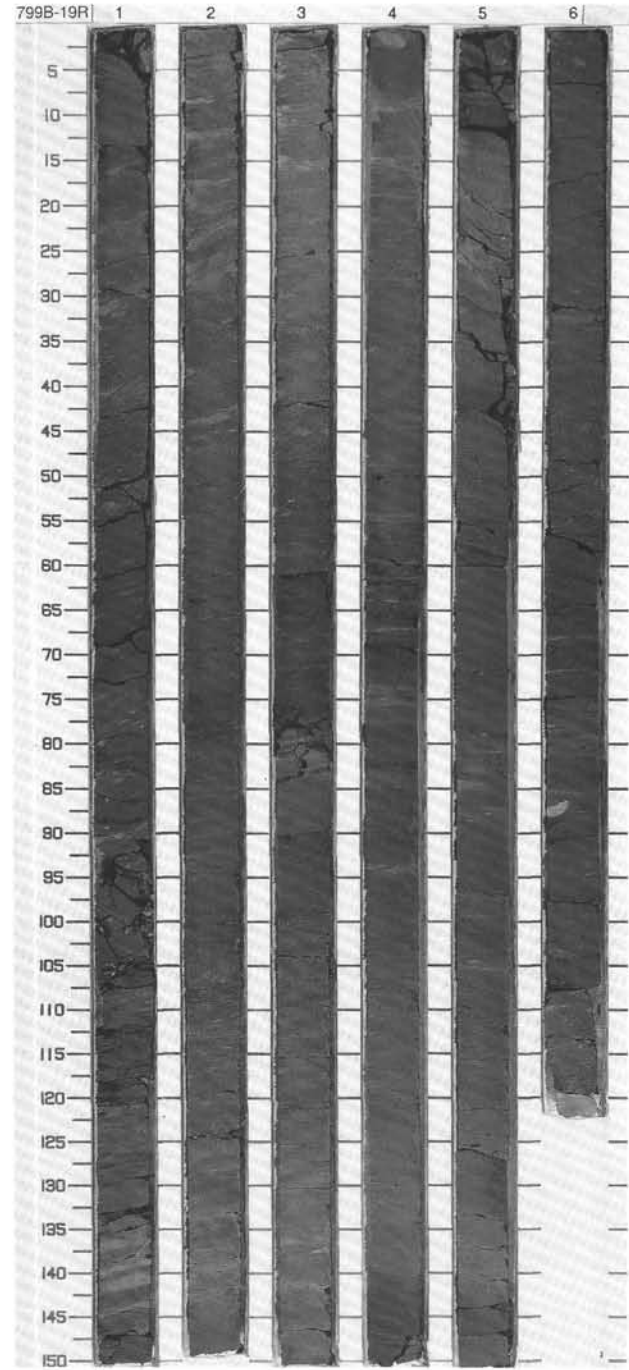
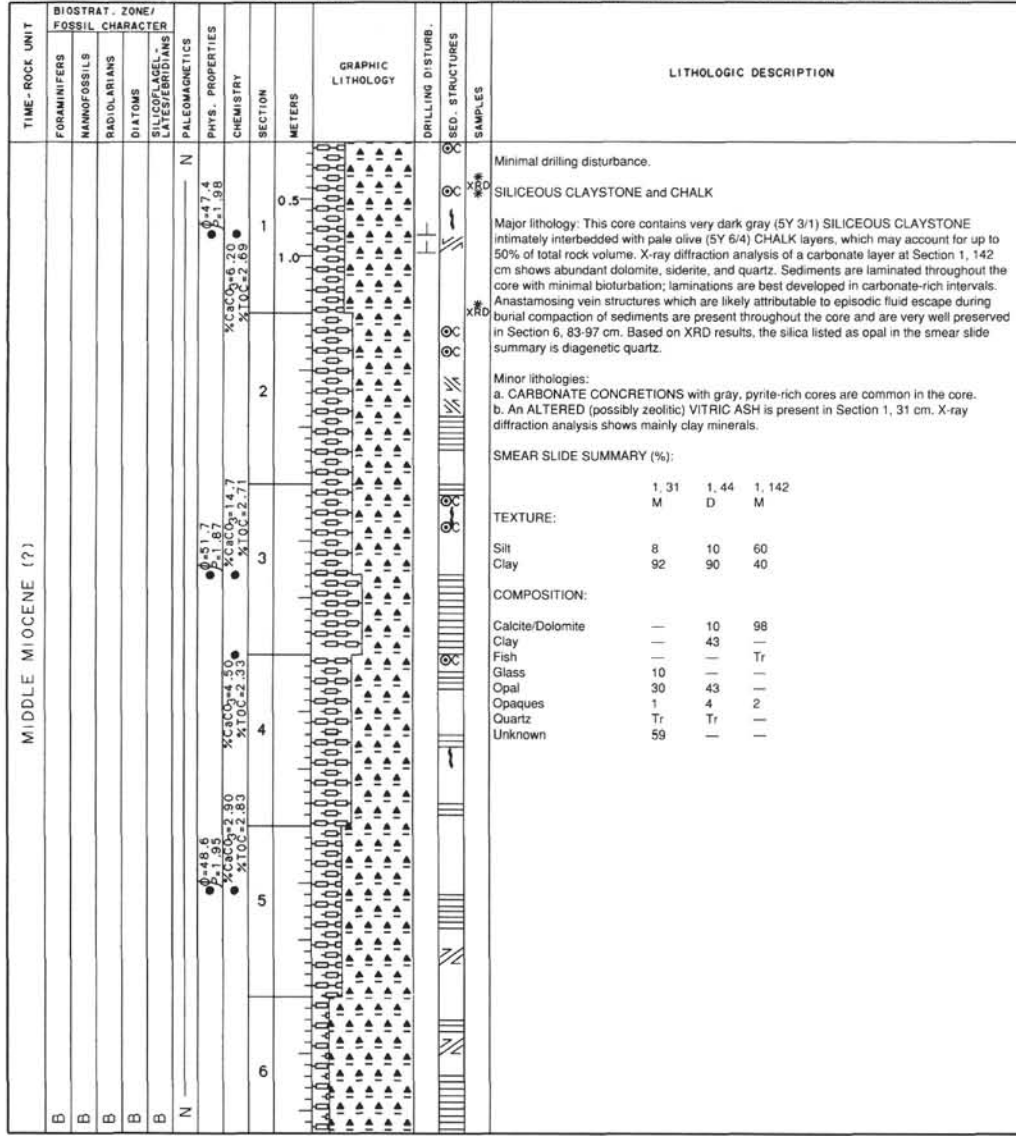


TIME-ROCK UNIT	BIOSTRAT. ZONE / FOSSIL CHARACTER				PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																		
	FORAMINIFERS	MAMMOFOSSILS	RADIOLARIANS	DIATOMS																											
MIDDLE MIOCENE (?)																															
B					0-49.2	%CaCO ₃ -3.00		0.5					Moderate drilling disturbance.																		
B					0-51.5	%CaCO ₃ -2.60		1.0					SILICEOUS CLAYSTONE																		
B					0-50.9	%CaCO ₃ -2.12							Major lithology: This core consists of gray (5Y 5/1), olive gray (5Y 4/2), very dark gray (5Y 3/1), and dark olive gray (5Y 3/2) SILICEOUS CLAYSTONE. Based on XRD results, the silica listed as opal in the smear slide summary is diagenetic quartz. The sediment is bioturbated throughout the core. Burrows are mainly subhorizontal, and commonly include 'spreiten' (<i>Teichichnus</i> ?). Normal faults are very common in this core. Zones marked by an anastomosing network of veins are abundant as well.																		
B					0-51.5	%CaCO ₃ -2.60							Minor lithologies: a. Light-colored CHALKY or CARBONATE-rich intervals are very common throughout the core. They consist of small intervals with disseminated carbonate (possibly in part recrystallized foraminifers), carbonate concretions, and carbonate-cemented intervals. b. PYRITE NODULES and zoned carbonate nodules with pyrite cores are present in Sections 1, 3, 4, 5, and 6.																		
N					0-51.5	%CaCO ₃ -2.12							SMEAR SLIDE SUMMARY (%):																		
					0-51.5	%CaCO ₃ -2.12							<table border="1"> <tr> <td></td> <td>2, 116</td> <td>3, 81</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table>		2, 116	3, 81	D	D	D												
	2, 116	3, 81																													
D	D	D																													
					0-51.5	%CaCO ₃ -2.12							TEXTURE:																		
					0-51.5	%CaCO ₃ -2.12							<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>	Silt	5	5	Clay	95	95												
Silt	5	5																													
Clay	95	95																													
					0-51.5	%CaCO ₃ -2.12							COMPOSITION:																		
					0-51.5	%CaCO ₃ -2.12							<table border="1"> <tr> <td>Calcite/Dolomite</td> <td>5</td> <td>8</td> </tr> <tr> <td>Clay</td> <td>43</td> <td>44</td> </tr> <tr> <td>Diatoms</td> <td>Tr</td> <td>-</td> </tr> <tr> <td>Opal</td> <td>45</td> <td>40</td> </tr> <tr> <td>Opaque</td> <td>3</td> <td>3</td> </tr> <tr> <td>Quartz</td> <td>4</td> <td>5</td> </tr> </table>	Calcite/Dolomite	5	8	Clay	43	44	Diatoms	Tr	-	Opal	45	40	Opaque	3	3	Quartz	4	5
Calcite/Dolomite	5	8																													
Clay	43	44																													
Diatoms	Tr	-																													
Opal	45	40																													
Opaque	3	3																													
Quartz	4	5																													



SITE 799 HOLE B CORE 18R CORED INTERVAL 2677.6-2687.3 mbsf; 605.9-615.6 mbsf





LITHOLOGIC DESCRIPTION

Minimal drilling disturbance.

SILICEOUS CLAYSTONE and CHALK

Major lithology: This core contains very dark gray (5Y 3/1) SILICEOUS CLAYSTONE intimately interbedded with pale olive (5Y 6/4) CHALK layers, which may account for up to 50% of total rock volume. X-ray diffraction analysis of a carbonate layer at Section 1, 142 cm shows abundant dolomite, siderite, and quartz. Sediments are laminated throughout the core with minimal bioturbation; laminations are best developed in carbonate-rich intervals. Anastomosing vein structures which are likely attributable to episodic fluid escape during burial compaction of sediments are present throughout the core and are very well preserved in Section 6, 83-97 cm. Based on XRD results, the silica listed as opal in the smear slide summary is diagenetic quartz.

Minor lithologies:
 a. CARBONATE CONCRETIONS with gray, pyrite-rich cores are common in the core.
 b. An ALTERED (possibly zeolitic) VITRIC ASH is present in Section 1, 31 cm. X-ray diffraction analysis shows mainly clay minerals.

SMEAR SLIDE SUMMARY (%):

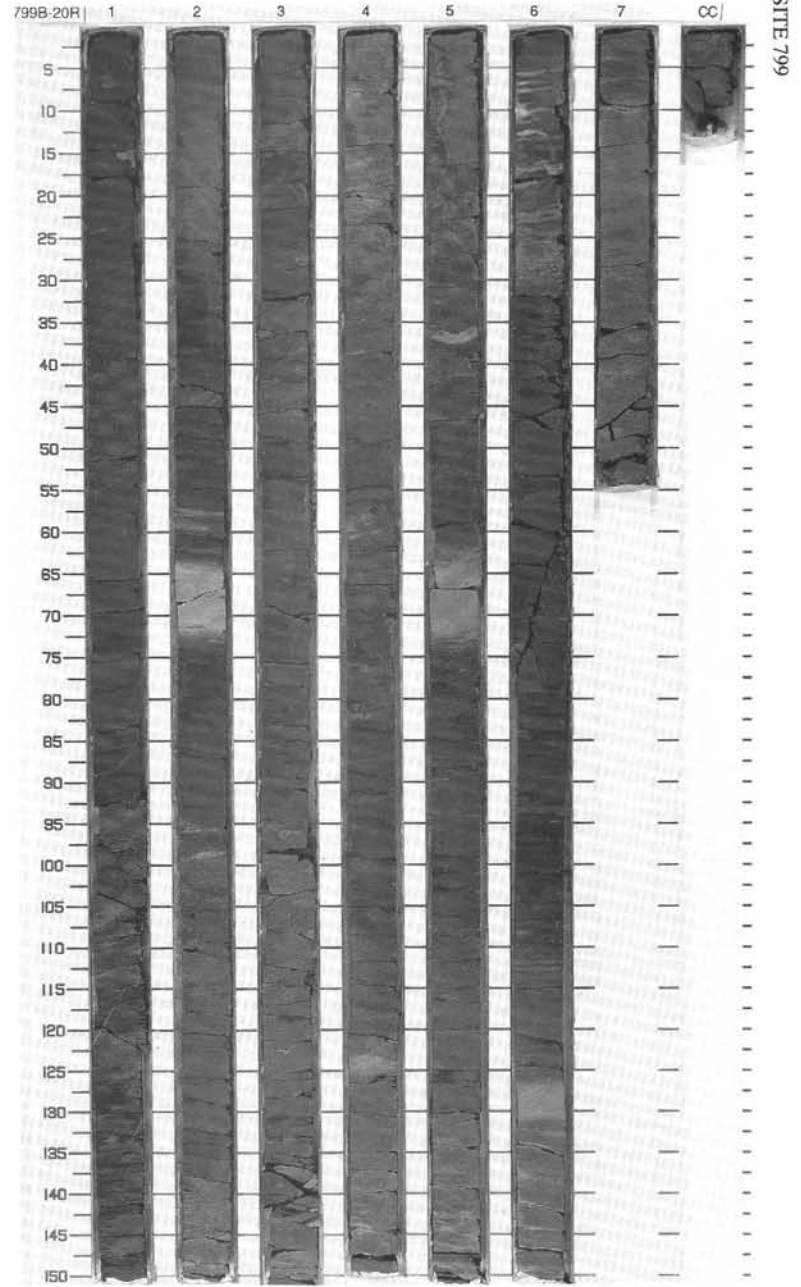
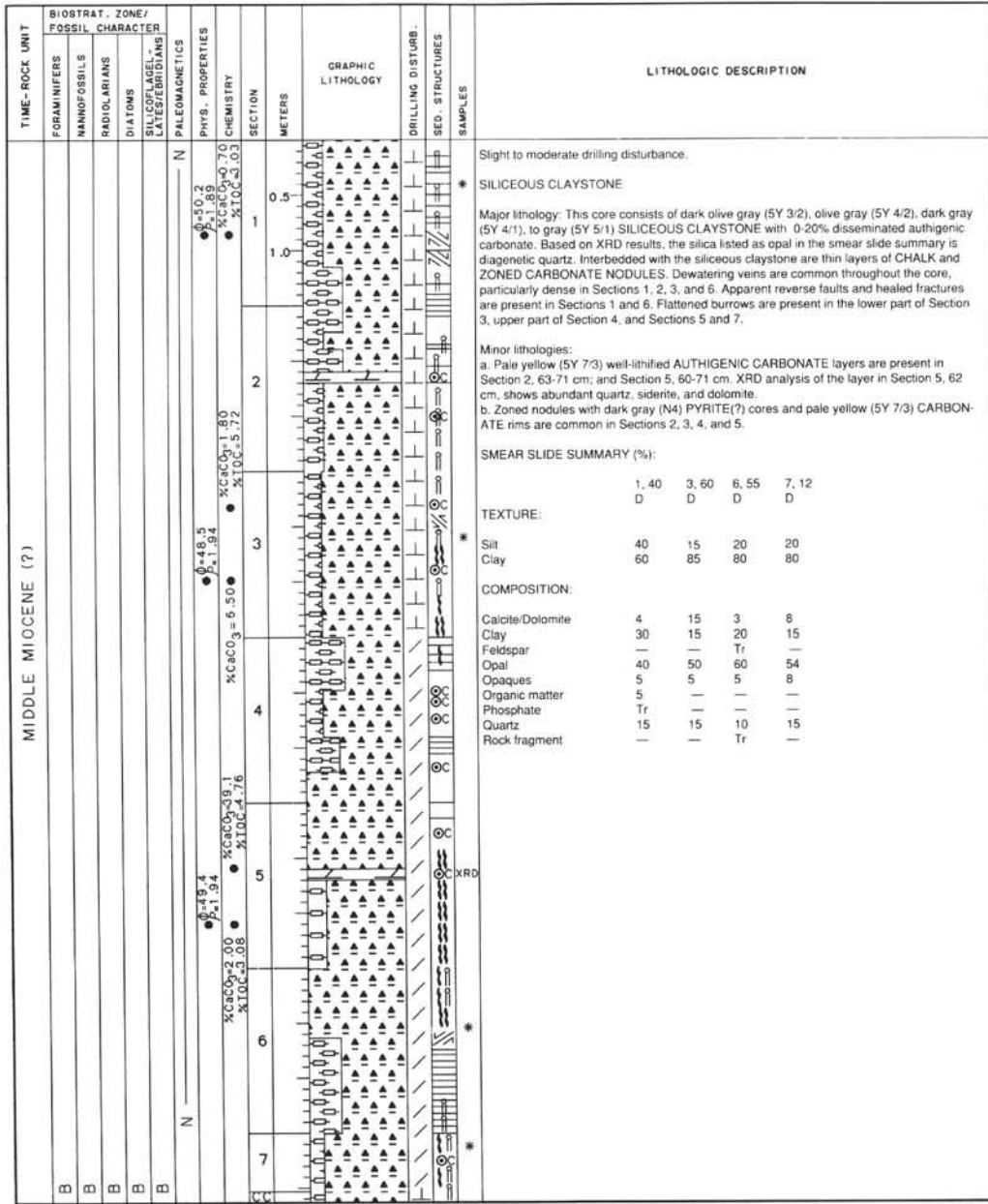
	1, 31	1, 44	1, 142
M			
D			
M			

TEXTURE:

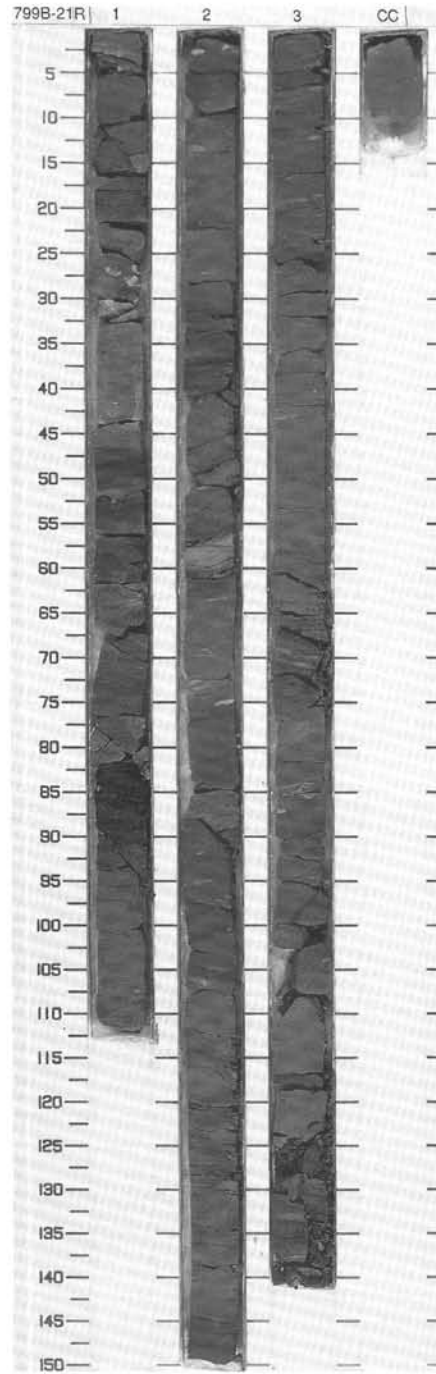
Silt	8	10	60
Clay	92	90	40

COMPOSITION:

Calcite/Dolomite	—	10	98
Clay	—	43	—
Fish	—	—	Tr
Glass	10	—	—
Opal	30	43	—
Opauques	1	4	2
Quartz	Tr	Tr	—
Unknown	59	—	—



TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONES	SILICEOUS LAYERS/BEDDINGS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SEC. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION		
MIDDLE MIOCENE (?)		B	F/P	B	B	B	N	4.85 6.19 6.55 7.81 8.10 8.30 8.41 8.50 8.60 8.70 8.80 8.90 9.00 9.10 9.20 9.30 9.40 9.50 9.60 9.70 9.80 9.90 10.00 10.10 10.20 10.30 10.40 10.50 10.60 10.70 10.80 10.90 11.00 11.10 11.20 11.30 11.40 11.50 11.60 11.70 11.80 11.90 12.00 12.10 12.20 12.30 12.40 12.50 12.60 12.70 12.80 12.90 13.00 13.10 13.20 13.30 13.40 13.50 13.60 13.70 13.80 13.90 14.00 14.10 14.20 14.30 14.40 14.50 14.60 14.70 14.80 14.90 15.00										Minimal to moderate drilling fracturing. PORCELLANITE and SILICEOUS CLAYSTONE Major lithology: this core contains finely variegated (very dark gray to dark olive gray to dark gray to olive gray; 5Y 3/1-5Y 3/2-5Y 4/1-5Y 4/2) PORCELLANITE and SILICEOUS CLAYSTONE, with thinly interlaminated pale olive (5Y 6/4) CHALK. Based on XRD results, the silica listed as opal in the smear slide summary is diagenetic quartz. Complex rock fabrics are well-preserved, including thin to thick sedimentary lamination, bioturbation (Planolites and possibly <i>Teichichnus</i>) and soft-sediment intrastratal folding. Cross-cutting relationships preserved in Section 1, 95-113 cm indicate successive formation of laminations, bioturbation, carbonate concretions, substantial burial compaction, formation of anastomosing water escape veins, and normal-faults at high-angle to bedding. Soft-sediment folding and rotated carbonate concretions in Section 1, 5-10 cm and Section 2, 118-120 cm record bedding-parallel intrastratal shear. SMEAR SLIDE SUMMARY (%): CC, 1 D TEXTURE: Silt 10 Clay 90 COMPOSITION: Calcite/Dolomite 2 Opal 88 Opaques 10

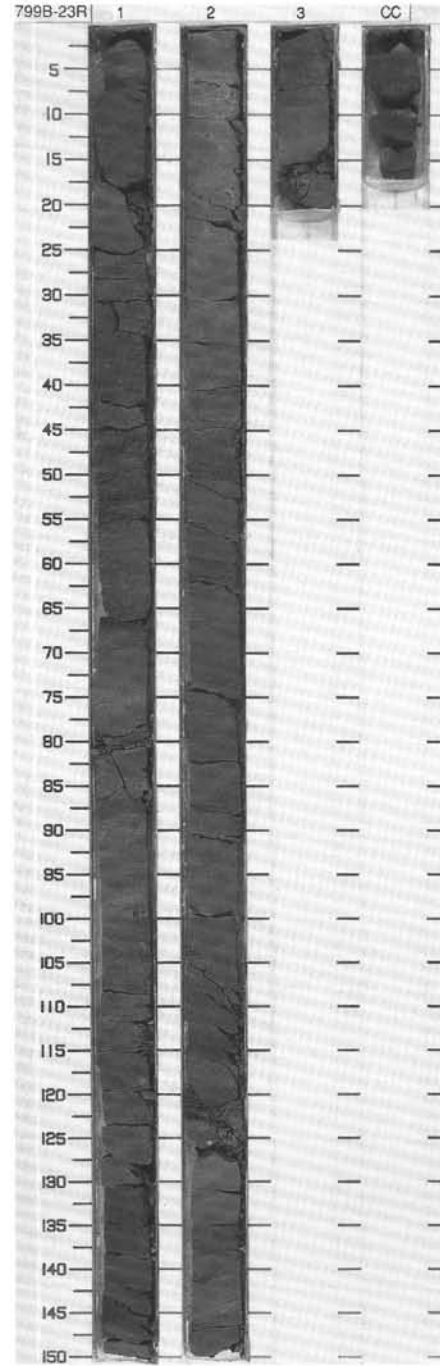


SITE 799 HOLE B CORE 22R CORED INTERVAL 2716.3-2725.9 mbsf; 644.6-654.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	SILICIFLACEL LAYERS/BRIOLIAN	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																	
MIDDLE MIOCENE (?)		B	B	B	B	B	N	0-33.8 1-3.0 2-3.1	%CaCO ₃ = 5.50 %SiO ₂ = 3.13	1 2					<p>Severe drilling disturbance.</p> <p>SILICEOUS CLAYSTONE, PORCELLANITE</p> <p>Major lithology: This core consists of a heterogeneous assemblage of lithologies. Their juxtaposition is due to low recovery, and does not reflect the original stratification. Dark olive gray to olive gray (5Y 3/2 to 5Y 4/2) and olive (5Y 5/3) SILICEOUS CLAYSTONE is interbedded with olive to olive gray (5Y 3/2 to 5Y 4/2) PORCELLANITE. Based on XRD results, silica listed as opal in the smear slide summary is diagenetic quartz. In Section 1, 48-150 cm, porcellanite and siliceous claystone are intimately interstratified. Anastomosing veins are common throughout this core, they may represent dewatering structures.</p> <p>Minor lithologies:</p> <p>a. CHALKY intervals occur in Section 1, 26-28 and 86-87 cm.</p> <p>b. PYRITE-bearing concretions are present in Section 2, 5 cm, and 20 cm.</p> <p>c. An interval with DIATOMS and RADIOLARIANS, both replaced by QUARTZ, is present in Section 1, 77-79 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 1</td> <td>1, 27</td> <td>1, 77</td> <td>1, 104</td> <td>2, 10</td> <td>2, 32</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>M</td> <td>M</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>---</td> <td>---</td> <td>5</td> <td>---</td> <td>---</td> <td>---</td> </tr> <tr> <td>Silt</td> <td>15</td> <td>10</td> <td>15</td> <td>15</td> <td>15</td> <td>10</td> </tr> <tr> <td>Clay</td> <td>85</td> <td>90</td> <td>80</td> <td>85</td> <td>85</td> <td>90</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Calcite /Dolomite</td> <td>8</td> <td>30</td> <td>2</td> <td>5</td> <td>3</td> <td>8</td> </tr> <tr> <td>Clay</td> <td>37</td> <td>13</td> <td>25</td> <td>22</td> <td>45</td> <td>39</td> </tr> <tr> <td>Diatoms</td> <td>---</td> <td>---</td> <td>---</td> <td>---</td> <td>---</td> <td>Tr</td> </tr> <tr> <td>Glauconite</td> <td>---</td> <td>---</td> <td>Tr</td> <td>---</td> <td>---</td> <td>---</td> </tr> <tr> <td>Nannofossils</td> <td>---</td> <td>---</td> <td>---</td> <td>---</td> <td>---</td> <td>Tr</td> </tr> <tr> <td>Opal</td> <td>40</td> <td>50</td> <td>30</td> <td>60</td> <td>40</td> <td>40</td> </tr> <tr> <td>Opauques</td> <td>5</td> <td>2</td> <td>2</td> <td>3</td> <td>2</td> <td>3</td> </tr> <tr> <td>Quartz</td> <td>10</td> <td>5</td> <td>40</td> <td>10</td> <td>10</td> <td>10</td> </tr> <tr> <td>Spicules</td> <td>---</td> <td>---</td> <td>---</td> <td>---</td> <td>---</td> <td>Tr</td> </tr> </table>		1, 1	1, 27	1, 77	1, 104	2, 10	2, 32		D	D	M	M	D	D	Sand	---	---	5	---	---	---	Silt	15	10	15	15	15	10	Clay	85	90	80	85	85	90	Calcite /Dolomite	8	30	2	5	3	8	Clay	37	13	25	22	45	39	Diatoms	---	---	---	---	---	Tr	Glauconite	---	---	Tr	---	---	---	Nannofossils	---	---	---	---	---	Tr	Opal	40	50	30	60	40	40	Opauques	5	2	2	3	2	3	Quartz	10	5	40	10	10	10	Spicules	---	---	---	---	---	Tr
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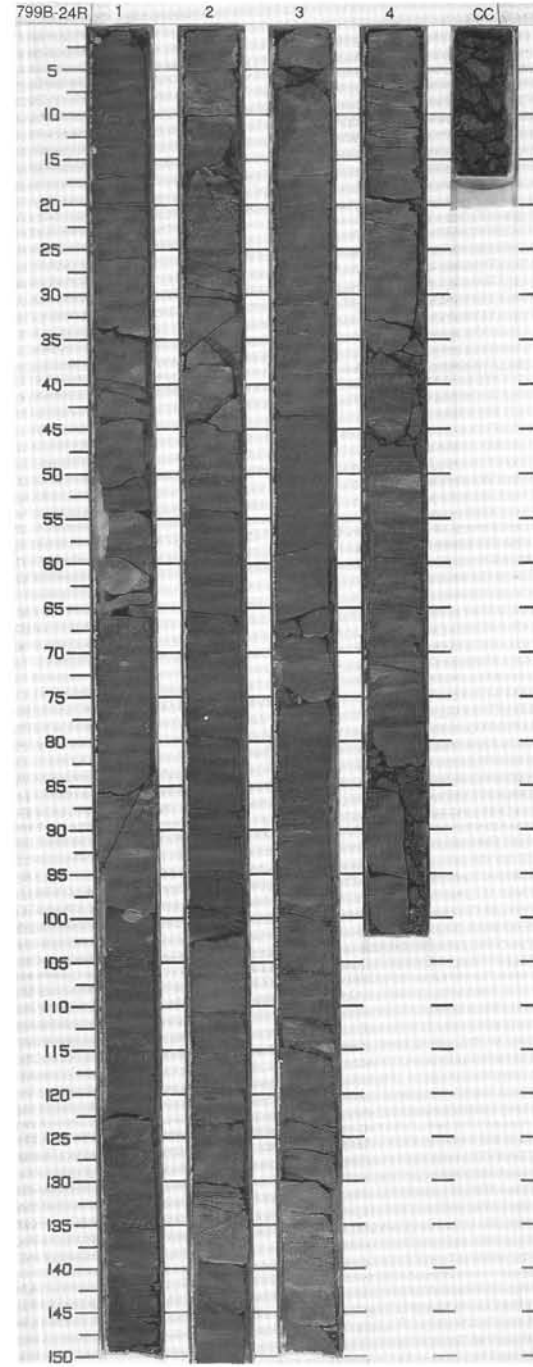


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																											
	FORAMINIFERS	NAUPOFOSSILS	RADIOLARIANS	DIATOMS																																					
MIDDLE MIOCENE (?)					N			1	0.5	[Lithology symbols]				Slight drilling disturbance. SILICEOUS CLAYSTONE Major lithology: This core consists of greenish gray to dark greenish gray (SGY 5/1 to SGY 4/1) SILICEOUS CLAYSTONE. Based on XRD results, the silica listed as opal in the smear slide summary is diagenetic quartz. The claystone is burrowed throughout, although not heavily. Most burrows are subhorizontal and some display 'spreiten' (<i>Teichichnus?</i>). Fine networks of veins are very common throughout this core (water-escape structures?). A normal fault occurs in Section 2, 118 cm. Minor lithology: CHALKY intervals are present in Section 1, 0-7, 48-55, 74-77, and 88-92 cm; Section 2, 25-32, 132-134, and 140-144 cm. In some of these intervals, e.g., Section 1, 7 cm, recrystallized nanofossils and foraminifers are still recognizable. SMEAR SLIDE SUMMARY (%): <table border="0"> <tr> <td></td> <td>1, 7</td> <td>1, 57</td> </tr> <tr> <td>TEXTURE:</td> <td>M</td> <td>D</td> </tr> <tr> <td>Silt</td> <td>20</td> <td>15</td> </tr> <tr> <td>Clay</td> <td>80</td> <td>85</td> </tr> </table> COMPOSITION: <table border="0"> <tr> <td>Calcite/Dolomite</td> <td>70</td> <td>2</td> </tr> <tr> <td>Clay</td> <td>6</td> <td>38</td> </tr> <tr> <td>Opal</td> <td>20</td> <td>45</td> </tr> <tr> <td>Opagues</td> <td>1</td> <td>5</td> </tr> <tr> <td>Quartz</td> <td>3</td> <td>10</td> </tr> </table>		1, 7	1, 57	TEXTURE:	M	D	Silt	20	15	Clay	80	85	Calcite/Dolomite	70	2	Clay	6	38	Opal	20	45	Opagues	1	5	Quartz	3	10
	1, 7	1, 57																																							
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	B	B	B	B	N	● 9-53 0 ● 55-30 3.20 ● %LOC-1.1B	2	1.0	[Lithology symbols]																																
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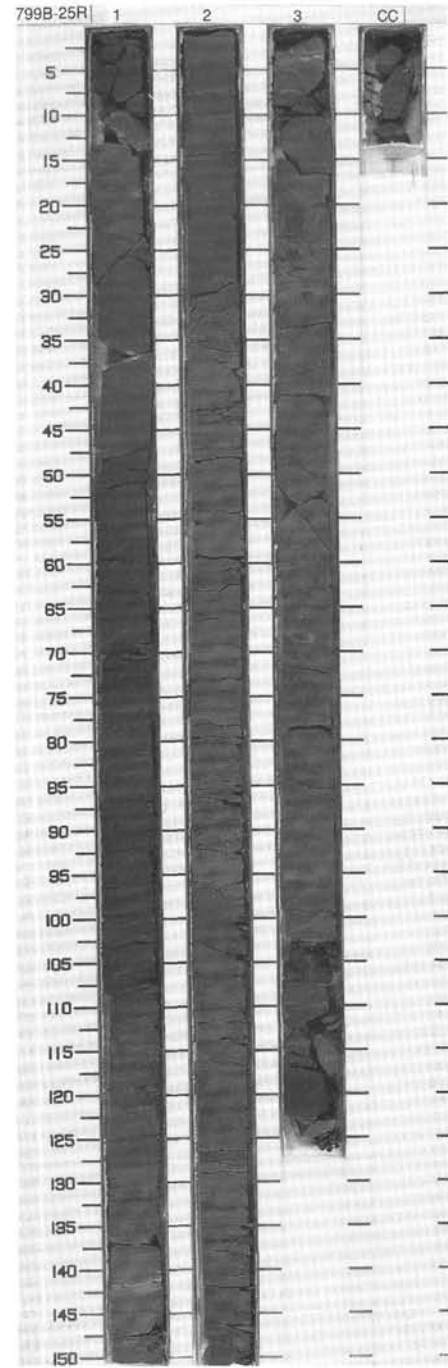


SITE 799 HOLE B CORE 24R CORED INTERVAL 2735.5-2745.2 mbsl; 663.8-673.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	SILICOFLAGELLATES/FERRIDIANS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																														
MIDDLE MIOGENE (?)								$\rho = 49.5$ $P_s = 1.97$	$\%CaCO_3 = 1.2$	1	0.5	[Symbolic Lithology]	///	[Symbolic Structures]	[Symbolic Samples]	Slight drilling disturbance. SILICEOUS CLAYSTONE * Major lithology: The sediments in this core consist predominantly of dark greenish gray (5GY 4/1) SILICEOUS CLAYSTONE. Based on XRD results, the silica listed as opal in the smear slide summary is diagenetic quartz. Sediments are burrowed throughout; however, burrow density is generally low. Normal faults and networks of possible drainage veins or water-escape structures are common throughout the core. Minor lithology: Light-colored CARBONATE-rich intervals and nodules are common. Some carbonate nodules have a PYRITE-rich core (e.g., Section 3, 1, and 20 cm). SMEAR SLIDE SUMMARY (%): <table border="0"> <tr> <td></td> <td>1.64</td> <td>1.82</td> </tr> <tr> <td>M</td> <td></td> <td>D</td> </tr> </table> TEXTURE: <table border="0"> <tr> <td>Silt</td> <td>10</td> <td>15</td> </tr> <tr> <td>Clay</td> <td>90</td> <td>85</td> </tr> </table> COMPOSITION: <table border="0"> <tr> <td>Calcite/Dolomite</td> <td>30</td> <td>3</td> </tr> <tr> <td>Clay</td> <td>28</td> <td>42</td> </tr> <tr> <td>Glass</td> <td>-</td> <td>1</td> </tr> <tr> <td>Opal</td> <td>30</td> <td>40</td> </tr> <tr> <td>Opagues</td> <td>2</td> <td>4</td> </tr> <tr> <td>Quartz</td> <td>10</td> <td>10</td> </tr> </table>		1.64	1.82	M		D	Silt	10	15	Clay	90	85	Calcite/Dolomite	30	3	Clay	28	42	Glass	-	1	Opal	30	40	Opagues	2	4	Quartz	10	10
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Opagues	2	4																																												
Quartz	10	10																																												
B								$\rho = 50.8$ $P_s = 1.91$	$\%CaCO_3 = 0.7$	2	1.0	[Symbolic Lithology]	///	[Symbolic Structures]	[Symbolic Samples]																															
F/P-R									$\%CaCO_3 = 1.3$	3	1.5	[Symbolic Lithology]	///	[Symbolic Structures]	[Symbolic Samples]																															
B										4	2.0	[Symbolic Lithology]	///	[Symbolic Structures]	[Symbolic Samples]																															

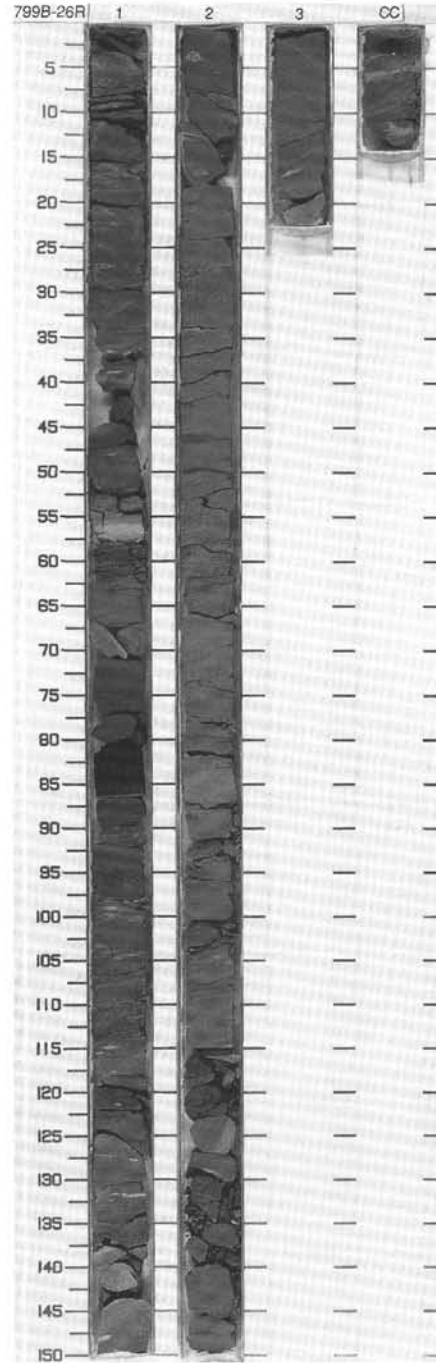


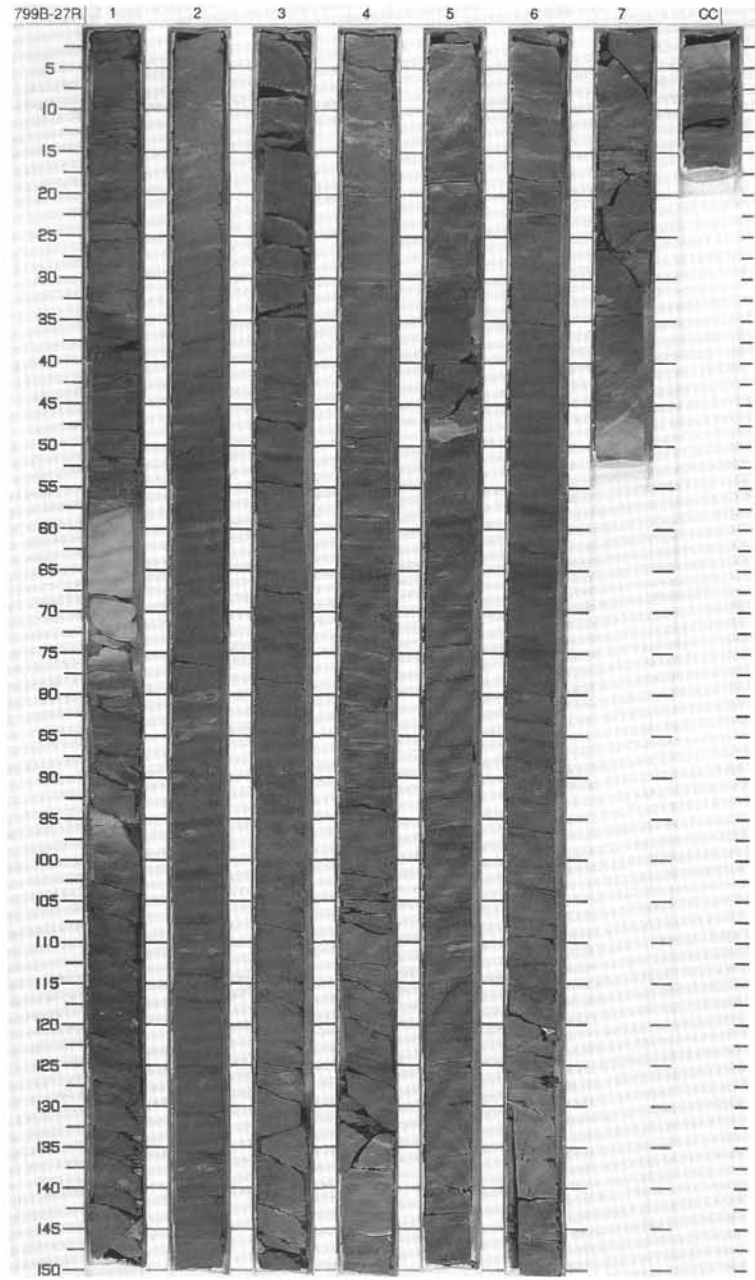
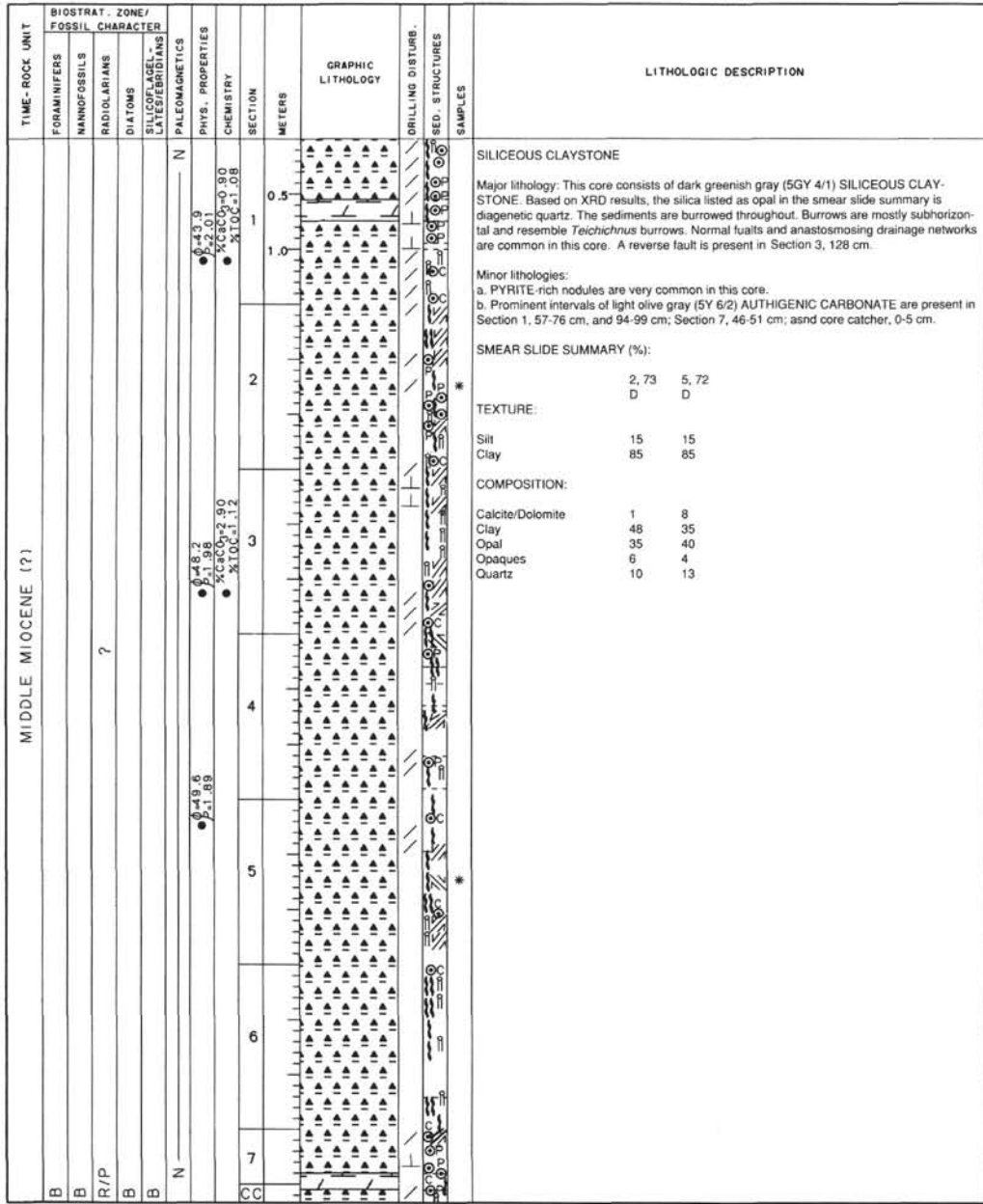
TIME-ROCK UNIT	BIOSTRAAT, ZONE/ FOSSIL CHARACTER	FORAMINIFERS	MAMMOFOSSILS	RADIOLARIANS	DIAATOMS	SILICOFLAGEL- LATES/EBRIDIANIS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																											
MIDDLE MIOCENE (?)							N	● $\rho_{4.5}$ 1.88 ● $\rho_{1.0}$ 1.82 ● $\rho_{1.0}$ 1.70 ● $\rho_{1.0}$ 1.42	$\%CaCO_3 = 1.30$ $\%SiO_2 = 1.82$	1	0.5 1.0	[Lithology symbols: triangles, circles, etc.]				Slight drilling disturbance. SILICEOUS CLAYSTONE Major lithology: This core consists of gray (5Y 5/1), olive gray (5Y 5/2), and dark olive gray (5Y 4/2) SILICEOUS CLAYSTONE. Based on XRD results, the silica listed as opal in the smear slide summary is diagenetic quartz. Burrows are common, but do not occur in high densities. Anastomosing networks of veins (drainage veins?) are common throughout this core. Minor lithology: Dark metallic gray (5Y 4/1) PYRITE nodules (0.5 to 3.5 cm in diameter) are present in Section 1, 130, and 150 cm; Section 2, 29 cm; and Section 3, 12, 21, 25, 69, and 111 cm. SMEAR SLIDE SUMMARY (%): <table border="1"> <tr> <td></td> <td>1.84</td> <td>2.87</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> TEXTURE: <table border="1"> <tr> <td>Silt</td> <td>20</td> <td>15</td> </tr> <tr> <td>Clay</td> <td>80</td> <td>85</td> </tr> </table> COMPOSITION: <table border="1"> <tr> <td>Calcite/Dolomite</td> <td>3</td> <td>3</td> </tr> <tr> <td>Clay</td> <td>35</td> <td>55</td> </tr> <tr> <td>Opal</td> <td>40</td> <td>25</td> </tr> <tr> <td>Opakes</td> <td>5</td> <td>2</td> </tr> <tr> <td>Quartz</td> <td>15</td> <td>15</td> </tr> </table>		1.84	2.87	D	D	D	Silt	20	15	Clay	80	85	Calcite/Dolomite	3	3	Clay	35	55	Opal	40	25	Opakes	5	2	Quartz	15	15
	1.84	2.87																																									
D	D	D																																									
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Opal	40	25																																									
Opakes	5	2																																									
Quartz	15	15																																									



SITE 799 HOLE B CORE 26R CORED INTERVAL 2754.9-2764.2 mbsf; 683.2-692.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	LITHOLOGIC DESCRIPTION																																								
MIDDLE MIOCENE (?)																																																	
	B	N	XRD	1	0.5				Slight drilling fracturing.																																								
	B			2	1.0				SILICEOUS CLAYSTONE																																								
	B			3	1.5				Major lithology: This core contains olive gray to gray (5Y 4/2-5Y 5/2 to 5Y 5/1) SILICEOUS CLAYSTONE with CARBONATE. Based on XRD results, the silica listed as opal in the smear slide summary is diagenetic quartz. Sediments are moderately bioturbated for the most part, planar laminated in Section 1, 0-30, 80-110, and 130-135 cm. Dewatering veins, commonly anastomosed, are widespread throughout the core. Healed normal faults occur in Section 1, 30 cm, and core catcher, 10 cm. Early bedding parallel extension is visible in Section 1, 50 cm.																																								
	B			CC					Minor lithologies: a. PYRITE nodules occur in Section 2, at 5, 18, and 60 cm. b. A 6-cm thick black (5Y2.5/1) layer consisting of clay-and silt-sized reddish-brown isotropic grains possibly composed of IRON HYDROXIDE and IRON CARBONATE occurs in Section 1, 80-86 cm. XRD analysis shows abundant quartz and pyrite. c. A pinkish gray (7.5YR 7/2) CARBONATE layer is present in Section 1, 56-58 cm. Several thin carbonate laminae are visible in the laminated intervals of Section 1.																																								
									SMEAR SLIDE SUMMARY (%):																																								
									<table border="1"> <tr> <td></td> <td>1, 30</td> <td>1, 81</td> <td>2, 84</td> </tr> <tr> <td></td> <td>D</td> <td>M</td> <td>D</td> </tr> </table>		1, 30	1, 81	2, 84		D	M	D																																
	1, 30	1, 81	2, 84																																														
	D	M	D																																														
									TEXTURE:																																								
									<table border="1"> <tr> <td>Silt</td> <td>10</td> <td>15</td> <td>15</td> </tr> <tr> <td>Clay</td> <td>90</td> <td>85</td> <td>85</td> </tr> </table>	Silt	10	15	15	Clay	90	85	85																																
Silt	10	15	15																																														
Clay	90	85	85																																														
									COMPOSITION:																																								
									<table border="1"> <tr> <td>Calcite/Dolomite</td> <td>15</td> <td>Tr</td> <td>10</td> </tr> <tr> <td>Clay</td> <td>35</td> <td>—</td> <td>38</td> </tr> <tr> <td>Glass</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Glauconite</td> <td>—</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Goethite</td> <td>—</td> <td>65</td> <td>—</td> </tr> <tr> <td>Opal</td> <td>35</td> <td>—</td> <td>35</td> </tr> <tr> <td>Opauques</td> <td>5</td> <td>—</td> <td>2</td> </tr> <tr> <td>Pyrite</td> <td>—</td> <td>5</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>10</td> <td>10</td> <td>15</td> </tr> <tr> <td>Siderite</td> <td>—</td> <td>20</td> <td>—</td> </tr> </table>	Calcite/Dolomite	15	Tr	10	Clay	35	—	38	Glass	Tr	—	—	Glauconite	—	Tr	—	Goethite	—	65	—	Opal	35	—	35	Opauques	5	—	2	Pyrite	—	5	—	Quartz	10	10	15	Siderite	—	20	—
Calcite/Dolomite	15	Tr	10																																														
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Opauques	5	—	2																																														
Pyrite	—	5	—																																														
Quartz	10	10	15																																														
Siderite	—	20	—																																														





SILICEOUS CLAYSTONE

Major lithology: This core consists of dark greenish gray (5GY 4/1) SILICEOUS CLAYSTONE. Based on XRD results, the silica listed as opal in the smear slide summary is diagenetic quartz. The sediments are burrowed throughout. Burrows are mostly subhorizontal and resemble *Teichichnus* burrows. Normal faults and anastomosing drainage networks are common in this core. A reverse fault is present in Section 3, 128 cm.

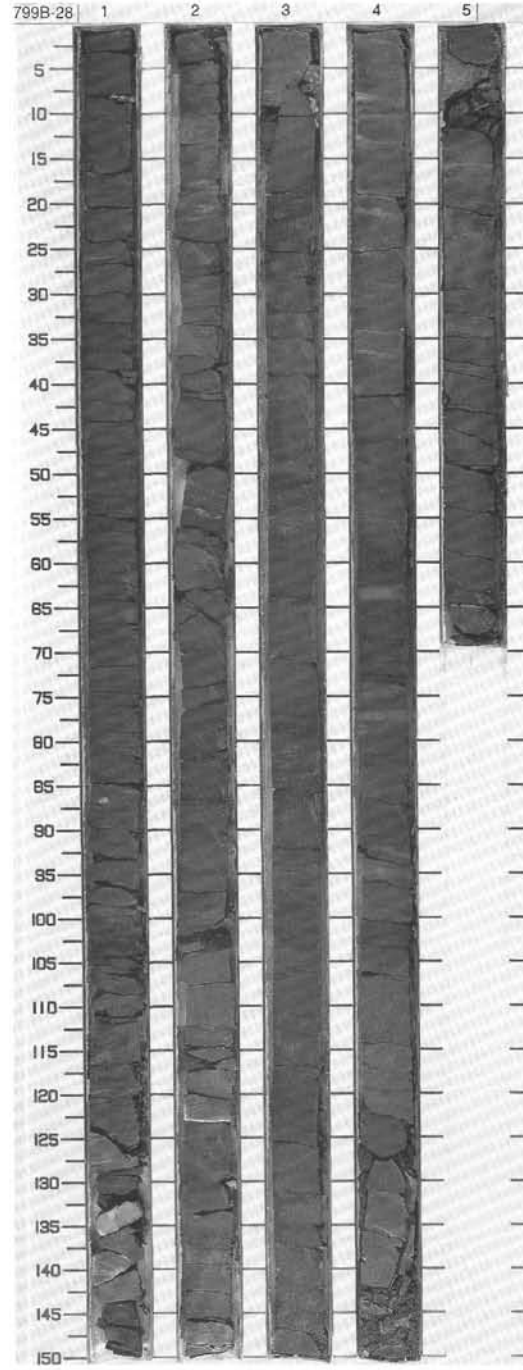
Minor lithologies:
 a. PYRITE-rich nodules are very common in this core.
 b. Prominent intervals of light olive gray (5Y 6/2) AUTHIGENIC CARBONATE are present in Section 1, 57-76 cm, and 94-99 cm; Section 7, 46-51 cm; asnd core catcher, 0-5 cm.

SMEAR SLIDE SUMMARY (%):

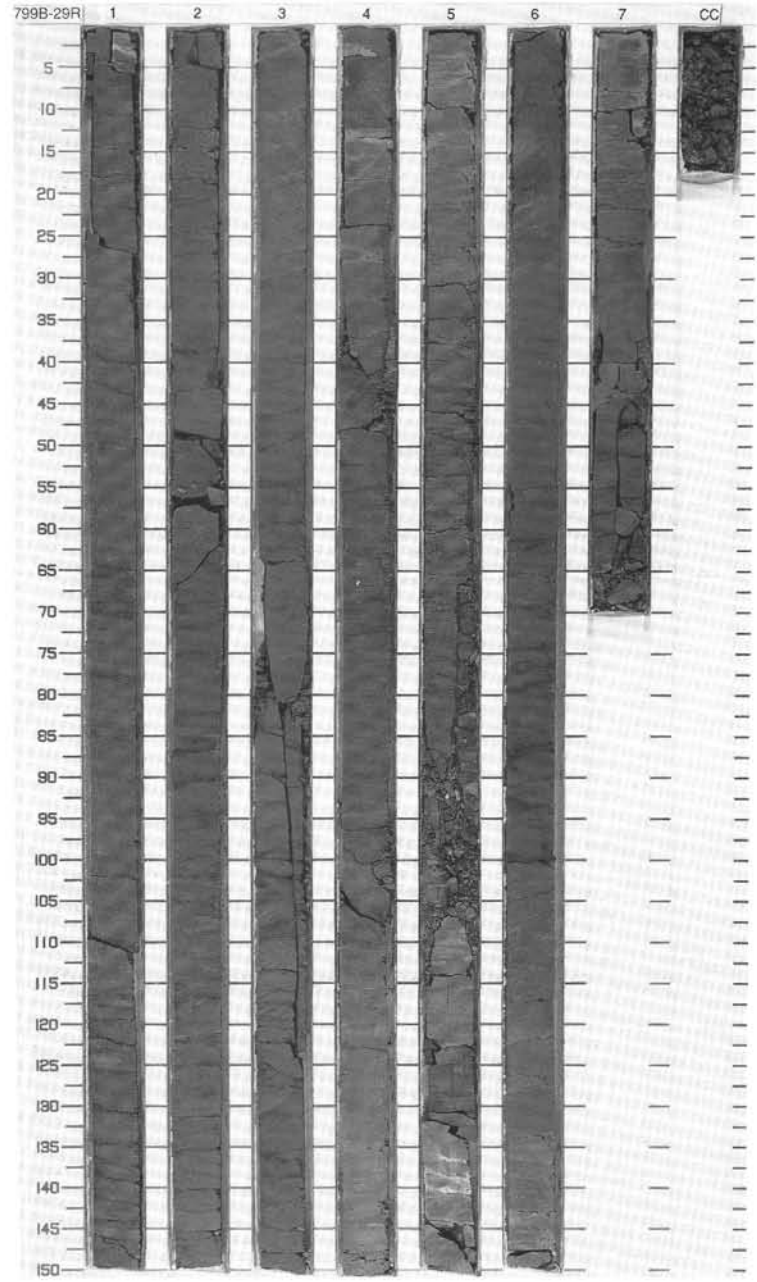
	2, 73	5, 72
TEXTURE:	D	D
Silt	15	15
Clay	85	85
COMPOSITION:		
Calcite/Dolomite	1	8
Clay	48	35
Opal	35	40
Opalques	6	4
Quartz	10	13

SITE 799 HOLE B CORE 28R CORED INTERVAL 2773.8-2783.5 mbsl; 702.1-711.8 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	PHYS. PROPERTIES	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	LITHOLOGIC DESCRIPTION
MIDDLE MIOCENE (?)								
B	FORAMINIFERS							
B	NAUPOSSILLS							
B	RADIOLARIANS							
B	DIAZONES							
B	SILICOPHAGEL- LATES/EBRIDIAN							
N	PALEOMAGNETICS							
		● $\delta = 44.2$ $\sigma = 2.02$ ● $X_{CaCO_3} = 1.60$ ● $X_{SiO_2} = 1.92$						
		● $\delta = 44.5$ $\sigma = 1.89$ ● $X_{CaCO_3} = 1.50$ ● $X_{SiO_2} = 1.86$						
		● $\delta = 45.2$ $\sigma = 1.92$ ● $X_{CaCO_3} = 0.90$ ● $X_{SiO_2} = 1.38$						
			1	0.5				
			2	1.0				
			3					
			4					
			5					



TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
MIDDLE MIOCENE (?)					N								
B									0.5				Slight drilling disturbance. SILICEOUS CLAYSTONE Major lithology: This core consists of olive gray (5Y 4/2) and dark greenish gray (5GY 4/1) SILICEOUS CLAYSTONE. The sediments are thoroughly bioturbated throughout the core. Minor lithology: PYRITE-rich nodules with a light-gray rim of CARBONATE are abundant in Section 5, 80-110 cm.
R/P	?							1					
B								2					
B								3					
B								4					
								5					
								6					
								7					

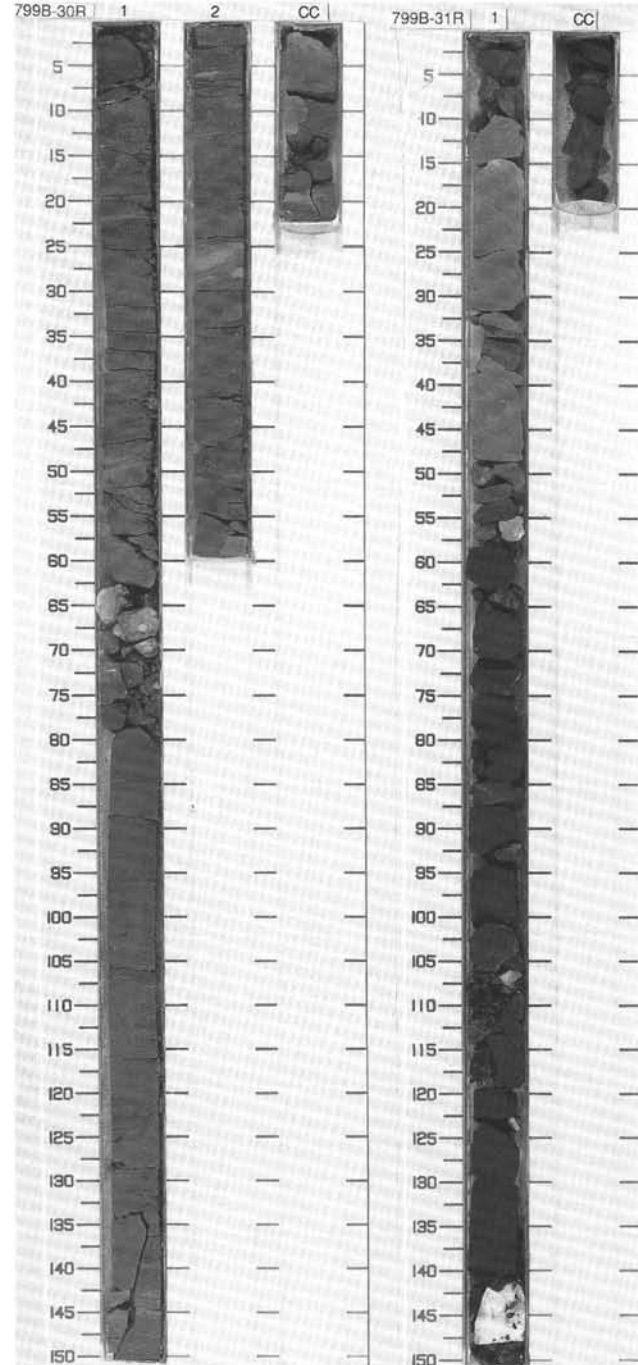


SITE 799 HOLE B CORE 30R CORED INTERVAL 2793.1-2802.5 mbsl; 721.4-730.8 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION														
	FORAMINIFERS	MANNOFOSSILS	RADIOLARIANS	DIATOMS									SILICEOUS LATES/FERRIDIAN	PALAEOMAGNETICS	CHEMISTRY											
MIDDLE MIOCENE ?	B	B	B	B	N	0.4, 2	0.5 1.0		⊙	⊙	⊙	<p>Moderate drilling disturbance.</p> <p>SILICEOUS CLAYSTONE</p> <p>Major lithology: This core consists of very dark gray (5Y 3/1) and gray to olive gray (5Y 5/1-5Y 5/2) SILICEOUS CLAYSTONE. Based on XRD results, silica listed as opal in the smear slide summary is diagenetic quartz. Bioturbation is present throughout. Dewatering vein networks are present throughout the core.</p> <p>Minor lithologies: a. CARBONATE CONCRETIONS with PYRITE cores are common throughout the core. b. A highly fractured DOLOMITE bed (confirmed by XRD analysis) occurs in Section 1, 62-69 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr><td>CC, 4</td></tr> <tr><td>D</td></tr> </table> <p>TEXTURE:</p> <table border="0"> <tr><td>Silt</td><td>20</td></tr> <tr><td>Clay</td><td>80</td></tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr><td>Clay</td><td>30</td></tr> <tr><td>Opal</td><td>55</td></tr> <tr><td>Opagues</td><td>10</td></tr> <tr><td>Quartz</td><td>5</td></tr> </table>	CC, 4	D	Silt	20	Clay	80	Clay	30	Opal	55	Opagues	10	Quartz	5
CC, 4																										
D																										
Silt	20																									
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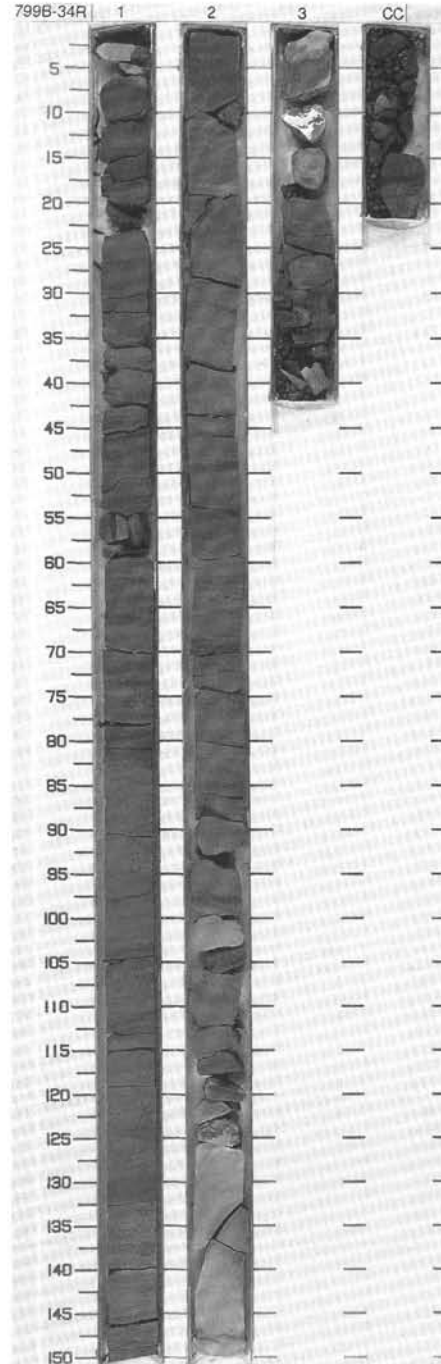
SITE 799 HOLE B CORE 31R CORED INTERVAL 2802.5-2812.2mbsl; 730.8-740.5mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																
	FORAMINIFERS	MANNOFOSSILS	RADIOLARIANS	DIATOMS									SILICEOUS LATES/FERRIDIAN	PALAEOMAGNETICS	CHEMISTRY													
MIDDLE MIOCENE	R/P	R/P	R/P	B	N	0.1, 2, 3	0.5 1.0		XRD	*	*	<p>Slight drilling disturbance.</p> <p>PORCELLANITE and DOLOMITE</p> <p>Major lithology: This core consists of dark olive gray (5Y 3/2) PORCELLANITE and a bed of pale yellow (5Y 7/3) to pale olive (5Y 6/3) DOLOMITE. The PORCELLANITE contains thin laminations of carbonate and carbonate spots, probably recrystallized foraminifers. Based on XRD results, the silica listed as opal in the smear slide summary is diagenetic quartz. Bioturbation and burrows are common throughout the core.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr><td>1, 90</td></tr> <tr><td>D</td></tr> </table> <p>TEXTURE:</p> <table border="0"> <tr><td>Silt</td><td>25</td></tr> <tr><td>Clay</td><td>75</td></tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr><td>Calcite/Dolomite</td><td>10</td></tr> <tr><td>Clay</td><td>20</td></tr> <tr><td>Opal</td><td>55</td></tr> <tr><td>Opagues</td><td>5</td></tr> <tr><td>Quartz</td><td>10</td></tr> </table>	1, 90	D	Silt	25	Clay	75	Calcite/Dolomite	10	Clay	20	Opal	55	Opagues	5	Quartz	10
1, 90																												
D																												
Silt	25																											
Clay	75																											
Calcite/Dolomite	10																											
Clay	20																											
Opal	55																											
Opagues	5																											
Quartz	10																											



SITE 799 HOLE B CORE 34R CORED INTERVAL 2831.5-2847.2mbsf; 759.8-769.5mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAATOMS	SILICOFLAGELLATES/DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																		
MIDDLE MIOCENE (?)							N	0-44.7 %CaCO ₃ 1.94 %SiO ₂ 2.07								<p>Moderate drilling disturbance.</p> <p>PORCELLANITE and AUTHIGENIC CARBONATE</p> <p>Major lithology: This core contains olive to gray (5Y 5/3-N4) PORCELLANITE with SILT and OPAQUES, which bears crude, thick laminations partly attributable to compactional flattening of horizontal-deposit feeding burrows. In a thin section from Section 2, 1-3 cm, opaque minerals also show laminated distribution. Based on XRD results, the silica listed as opal in the smear slide summary is diagenetic quartz. Massively bedded olive (5Y 5/3) AUTHIGENIC CARBONATE with SILT is present from Section 2, to Section 3, 19 cm. A thin section from Section 2, 139-143 cm, shows a fitted fabric of anhedral carbonate crystallites which possess sutured and fitted margins, suggesting grain-to-grain pressure solution during crystal growth. Light-colored laminae and specks of silt to sand size distributed throughout the core likely represent replaced calcareous microfossils.</p> <p>Minor lithology: Olive (5Y 5/3) SILICEOUS CLAYSTONE is present in Section 1, 33-46 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 34</td> <td>1, 142</td> <td>2, 1</td> <td>2, 139</td> </tr> <tr> <td>D</td> <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>10</td> <td>10</td> <td>20</td> <td>10</td> </tr> <tr> <td>Clay</td> <td>90</td> <td>90</td> <td>80</td> <td>90</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Calcite/Dolomite</td> <td>5</td> <td>37</td> <td>7</td> <td>83</td> </tr> <tr> <td>Clay</td> <td>20</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Opal</td> <td>66</td> <td>37</td> <td>62</td> <td>—</td> </tr> <tr> <td>Opagues</td> <td>9</td> <td>15</td> <td>15</td> <td>5</td> </tr> <tr> <td>Organic matter</td> <td>—</td> <td>5</td> <td>1</td> <td>2</td> </tr> <tr> <td>Quartz</td> <td>Tr</td> <td>6</td> <td>15</td> <td>10</td> </tr> </table>		1, 34	1, 142	2, 1	2, 139	D	D	D	D	D	Silt	10	10	20	10	Clay	90	90	80	90	Calcite/Dolomite	5	37	7	83	Clay	20	—	—	—	Opal	66	37	62	—	Opagues	9	15	15	5	Organic matter	—	5	1	2	Quartz	Tr	6	15	10
	1, 34	1, 142	2, 1	2, 139																																																														
D	D	D	D	D																																																														
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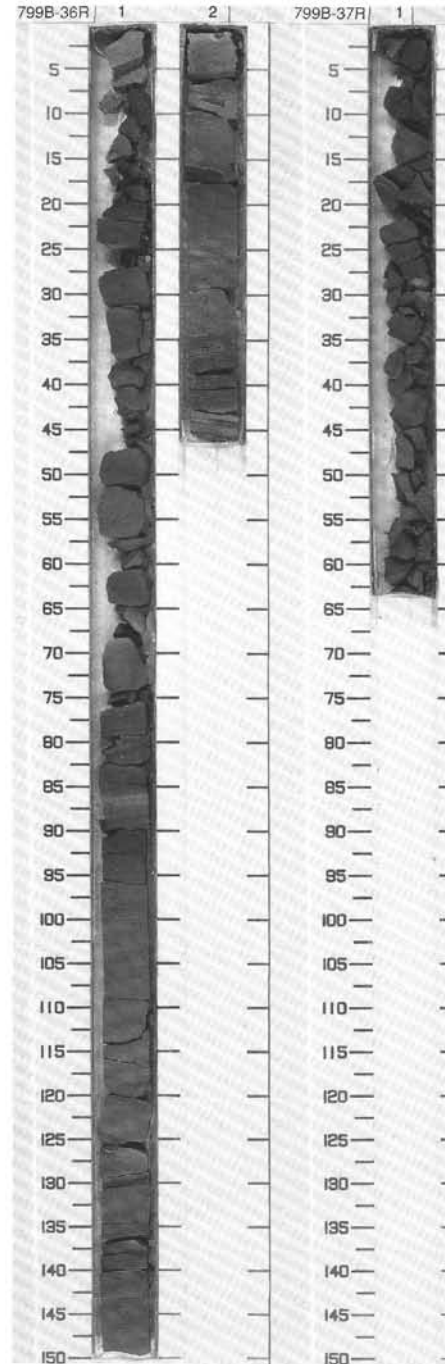


SITE 799 HOLE B CORE 36R CORED INTERVAL 2850.9-2860.6 mbsf; 779.2-788.9 mbsf

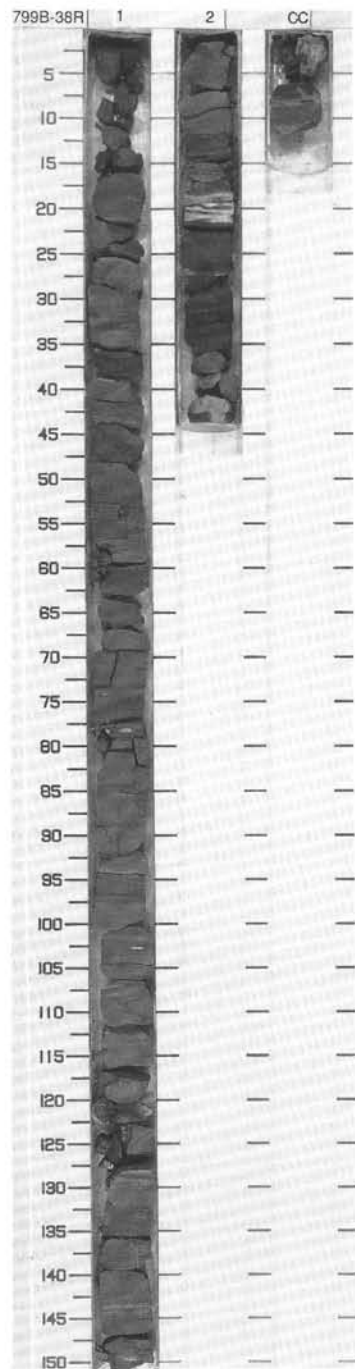
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																			
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	SILICIFLAGELLATES/BRIDDIANS																																													
MIDDLE MIOCENE (?)	B	B	B	B	B	N	0.26, 0.18 0.2, 0.19 0.2, 0.19 %CaCO ₃ = 1.70 %SiO ₂ = 2.07		1 2					<p>Moderate to severe drilling disturbance</p> <p>SILICEOUS CLAYSTONE and PORCELLANITE</p> <p>Major lithology: This core contains olive gray (5Y 4/2) to olive (5Y 4/3) SILICEOUS CLAYSTONE and olive gray (5Y 4/2) to dark olive gray (5Y 3/2) PORCELLANITE. Based on XRD results, the silica listed as opal in the smear slide summary is diagenetic quartz. Compactionally flattened burrows occur throughout the siliceous claystone in Section 1. Section 2 exhibits dark/light color banding; darker colored PORCELLANITE is thinly laminated, whereas lighter colored SILICEOUS CLAYSTONE is bioturbated and characterized by dewatering veins.</p> <p>Minor lithology: Pale yellow (5Y 7/3) to light gray (5Y 7/2) well-lithified AUTHIGENIC CARBONATE layers occur in Section 1, 0-15 and 65-72 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>2.10</td> <td>2.17</td> </tr> <tr> <td>D</td> <td></td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Silt</td> <td>20</td> <td>15</td> </tr> <tr> <td>Clay</td> <td>80</td> <td>85</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Calcite/Dolomite</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>30</td> <td>25</td> </tr> <tr> <td>Diatoms</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Glass</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Opal</td> <td>50</td> <td>55</td> </tr> <tr> <td>Opalines</td> <td>10</td> <td>8</td> </tr> <tr> <td>Quartz</td> <td>10</td> <td>10</td> </tr> <tr> <td>Spicules</td> <td>Tr</td> <td>Tr</td> </tr> </table>		2.10	2.17	D		D	Silt	20	15	Clay	80	85	Calcite/Dolomite	—	Tr	Clay	30	25	Diatoms	—	Tr	Glass	Tr	—	Opal	50	55	Opalines	10	8	Quartz	10	10	Spicules	Tr	Tr
	2.10	2.17																																																
D		D																																																
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Opalines	10	8																																																
Quartz	10	10																																																
Spicules	Tr	Tr																																																

SITE 799 HOLE B CORE 37R CORED INTERVAL 2860.6-2870.2 mbsf; 788.9-798.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	SILICIFLAGELLATES/BRIDDIANS										
MIDDLE MIOCENE	B	B	B	B	B	N	0.26, 0.18 0.2, 0.19 0.2, 0.19 %CaCO ₃ = 2.09 %SiO ₂ = 2.11		1					<p>Severe drilling disturbance.</p> <p>PORCELLANITE</p> <p>Major lithology: This core mainly consists of rubble of olive (5Y 4/3) PORCELLANITE in part containing minor AUTHIGENIC CARBONATE, and SILICEOUS CLAYSTONE.</p>	

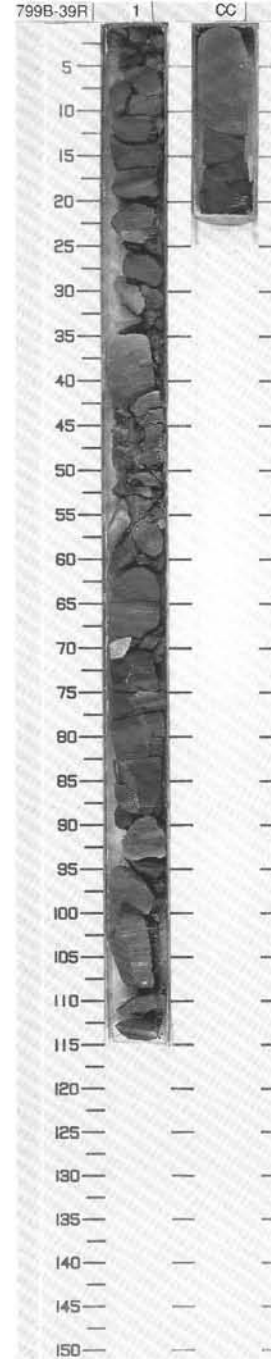


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																														
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	SILICOFLAGEL- LATES/EBRIDIAHS																																						
MIDDLE MIOCENE (?)			<i>Cyrtocapsella tetrapera</i>			40.3 20 1.99	XCO-5.80 XCO-3.20 XTO-3.80 XTO-1.60						Highly fragmented by drilling. PORCELLANITE Major lithology: This core contains thickly to very finely laminated, olive to dark olive gray (SY 3:2- 5Y 4:3) PORCELLANITE. Very fine laminations possess lateral irregularities and small-scale truncations. Dewatering veins are well-developed in Section 1, 75-113 cm. Based on XRD results, the silica listed as opal in the smear slide summary is diagenetic quartz. Minor lithologies: a. Graded beds of SILICEOUS CLAYSTONE with SILT are present in Section 1, 48-55 and 140-144 cm. b. A large pebble of massive AUTHIGENIC CARBONATE occurs in the core catcher, 0-4 cm. c. White sand-sized specks and granule-sized, lozenge-shaped concretions are distributed sparsely throughout the core and consist of AUTHIGENIC CARBONATE. SMEAR SLIDE SUMMARY (%): <table style="margin-left: 20px;"> <tr><td></td><td>1.18</td><td>2.38</td></tr> <tr><td>TEXTURE:</td><td>M</td><td>M</td></tr> <tr><td>Sand</td><td>10</td><td>—</td></tr> <tr><td>Silt</td><td>10</td><td>—</td></tr> <tr><td>Clay</td><td>80</td><td>100</td></tr> </table> COMPOSITION: <table style="margin-left: 20px;"> <tr><td>Calcite/Dolomite</td><td>—</td><td>100</td></tr> <tr><td>Clay</td><td>20</td><td>—</td></tr> <tr><td>Opal</td><td>50</td><td>—</td></tr> <tr><td>Opaques</td><td>10</td><td>—</td></tr> <tr><td>Quartz</td><td>20</td><td>—</td></tr> </table>		1.18	2.38	TEXTURE:	M	M	Sand	10	—	Silt	10	—	Clay	80	100	Calcite/Dolomite	—	100	Clay	20	—	Opal	50	—	Opaques	10	—	Quartz	20	—
	1.18	2.38																																									
TEXTURE:	M	M																																									
Sand	10	—																																									
Silt	10	—																																									
Clay	80	100																																									
Calcite/Dolomite	—	100																																									
Clay	20	—																																									
Opal	50	—																																									
Opaques	10	—																																									
Quartz	20	—																																									



SITE 799 HOLE B CORE 39R CORED INTERVAL 2879.8-2889.5 mbsf; 808.1-817.8 mbsf

MIDDLE MIOCENE (?)	TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	PHYS. PROPERTIES CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																							
	FORAMINIFERS	NAKNOFOSSILS							RADIOLARIANS	DIATOMS	POLYGEN. SEC. LATECERBERIDIAN	PALEOMAGNETICS	%SiO ₂ 6.00 %CaO 1.88																																		
		B		1				<p>Severe drilling disturbance.</p> <p>PORCELLANITE</p> <p>Major lithology: Sediments in this core are heterogeneous. Contacts between different lithologies are artificial, due to drilling disturbance and poor recovery. The recovered fragments consist of dark grayish brown (10YR 4/2), very dark gray (N3/), and olive gray (5Y 4/2) PORCELLANITE. The porcellanite in Section 1, 0-15 and 23-28 cm includes CARBONATE as a minor (15%) constituent. The porcellanite in Section 1, 18-23 and 48-114 cm, and in the core catcher, is crudely to finely laminated and include normally graded sequences, which are sharply based and contain trace amounts of sand-sized quartz and glauconite. Based on XRD results, the silica listed as opal in the smear slide summary is diagenetic quartz.</p> <p>Minor lithology: An altered VOLCANIC ASH with CLAY, mainly composed of quartz and zeolites, is present in Section 1, 42-48 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>1, 5</td> <td>1, 47</td> </tr> <tr> <td></td> <td>M</td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="0"> <tr> <td>Silt</td> <td>15</td> <td>85</td> </tr> <tr> <td>Clay</td> <td>85</td> <td>15</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Calcite/Dolomite</td> <td>14</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>5</td> <td>10</td> </tr> <tr> <td>Diatoms</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Feldspar</td> <td>1</td> <td>6</td> </tr> <tr> <td>Glass</td> <td>1</td> <td>65</td> </tr> <tr> <td>Opal</td> <td>70</td> <td>—</td> </tr> <tr> <td>Opalques</td> <td>1</td> <td>8</td> </tr> <tr> <td>Quartz</td> <td>3</td> <td>6</td> </tr> <tr> <td>Zeolite</td> <td>---</td> <td>5</td> </tr> </table>		1, 5	1, 47		M	M	Silt	15	85	Clay	85	15	Calcite/Dolomite	14	—	Clay	5	10	Diatoms	Tr	Tr	Feldspar	1	6	Glass	1	65	Opal	70	—	Opalques	1	8	Quartz	3	6	Zeolite	---	5
	1, 5	1, 47																																													
	M	M																																													
Silt	15	85																																													
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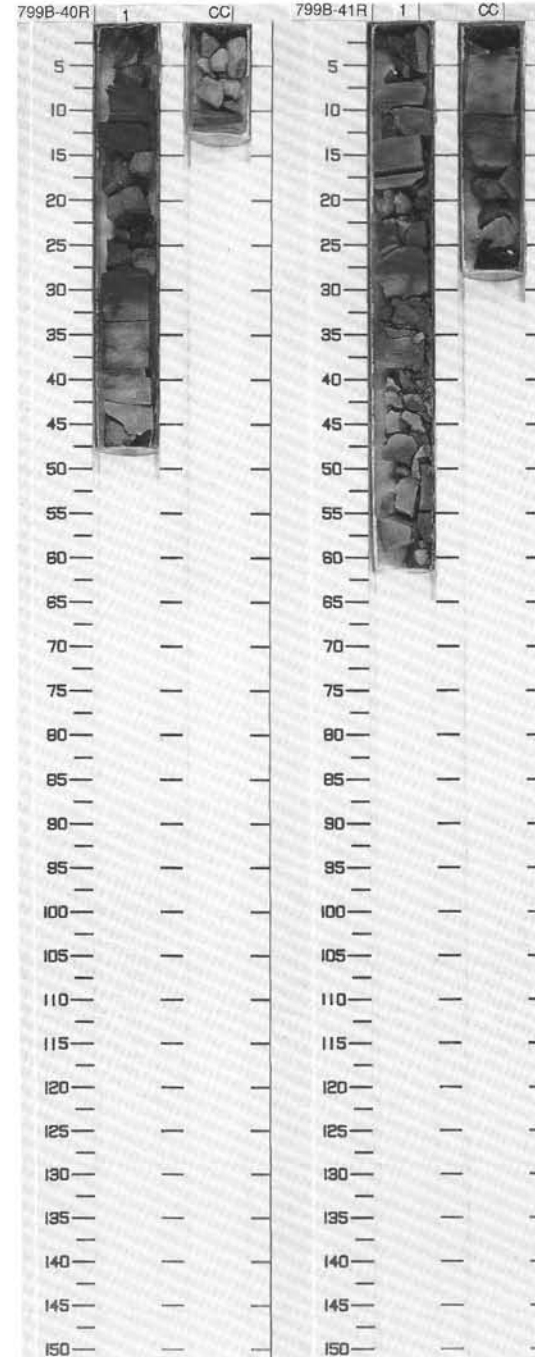


SITE 799 HOLE B CORE 40R CORED INTERVAL 2889.5-2898.8 mbsl; 817.8-827.1 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																			
	FORAMINIFERS	NAUPOFOSSILS	RADIOLARIANS	DIATOMS	ALGAE/COCCONIDIA																																																													
MIDDLE MIOCENE (?)	B	B	B	B	B	9-38.5 XCCO=1.70 XLOC=2.74		1						<p>Moderate drilling disturbance</p> <p>PORCELLANITE</p> <p>Major lithology: This core contains dark brown to brown (7.5YR 4/2-7.5YR 4/4) and pinkish brown (7.5YR 6/2) PORCELLANITE, partly with SILT and SAND. Silt and sand fractions are concentrated in the basal portion of a planar laminated turbidite in Section 1, 27-40 cm. Based on XRD results, the silica listed as opal in the smear slide summary is diagenetic quartz.</p> <p>Minor lithology: A pinkish gray (7.5YR 6/2) altered VOLCANIC ASH, mainly composed of clay, occurs in the core catcher, 0-6 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 40</td> <td>1, 45</td> <td>CC, 5</td> </tr> <tr> <td>TEXTURE:</td> <td>D</td> <td>D</td> <td>M</td> </tr> <tr> <td>Sand</td> <td>10</td> <td>5</td> <td>---</td> </tr> <tr> <td>Silt</td> <td>20</td> <td>15</td> <td>5</td> </tr> <tr> <td>Clay</td> <td>70</td> <td>80</td> <td>95</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>30</td> <td>35</td> <td>70</td> </tr> <tr> <td>Feldspar</td> <td>2</td> <td>1</td> <td>---</td> </tr> <tr> <td>Glass</td> <td>5</td> <td>1</td> <td>20</td> </tr> <tr> <td>Glaucconite</td> <td>3</td> <td>---</td> <td>---</td> </tr> <tr> <td>Mica</td> <td>2</td> <td>1</td> <td>---</td> </tr> <tr> <td>Opal</td> <td>45</td> <td>45</td> <td>---</td> </tr> <tr> <td>Opales</td> <td>3</td> <td>2</td> <td>---</td> </tr> <tr> <td>Quartz</td> <td>10</td> <td>15</td> <td>10</td> </tr> </table>		1, 40	1, 45	CC, 5	TEXTURE:	D	D	M	Sand	10	5	---	Silt	20	15	5	Clay	70	80	95	Clay	30	35	70	Feldspar	2	1	---	Glass	5	1	20	Glaucconite	3	---	---	Mica	2	1	---	Opal	45	45	---	Opales	3	2	---	Quartz	10	15	10
	1, 40	1, 45	CC, 5																																																															
TEXTURE:	D	D	M																																																															
Sand	10	5	---																																																															
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Feldspar	2	1	---																																																															
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Glaucconite	3	---	---																																																															
Mica	2	1	---																																																															
Opal	45	45	---																																																															
Opales	3	2	---																																																															
Quartz	10	15	10																																																															

SITE 799 HOLE B CORE 41R CORED INTERVAL 2898.8-2908.5 mbsl; 827.1-836.8 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NAUPOFOSSILS	RADIOLARIANS	DIATOMS	ALGAE/COCCONIDIA										
MIDDLE MIOCENE (?)	B	B	B	B	B	9-24.8 XCCO=0.60 XLOC=0.90		1						<p>Highly fractured.</p> <p>SILICEOUS CLAYSTONE</p> <p>Major lithology: This core contains brown to pinkish gray (7.5YR 4/2 to 7.5YR 6/2) SILICEOUS CLAYSTONE and SILICEOUS CLAYSTONE with SILT and SAND; the latter occurs in normally graded sequences with planar laminated upper intervals. Sand-sized quartz, feldspar, volcanic glass, and glauconite is included in the basal portion of these sequences which represent turbidites.</p>	

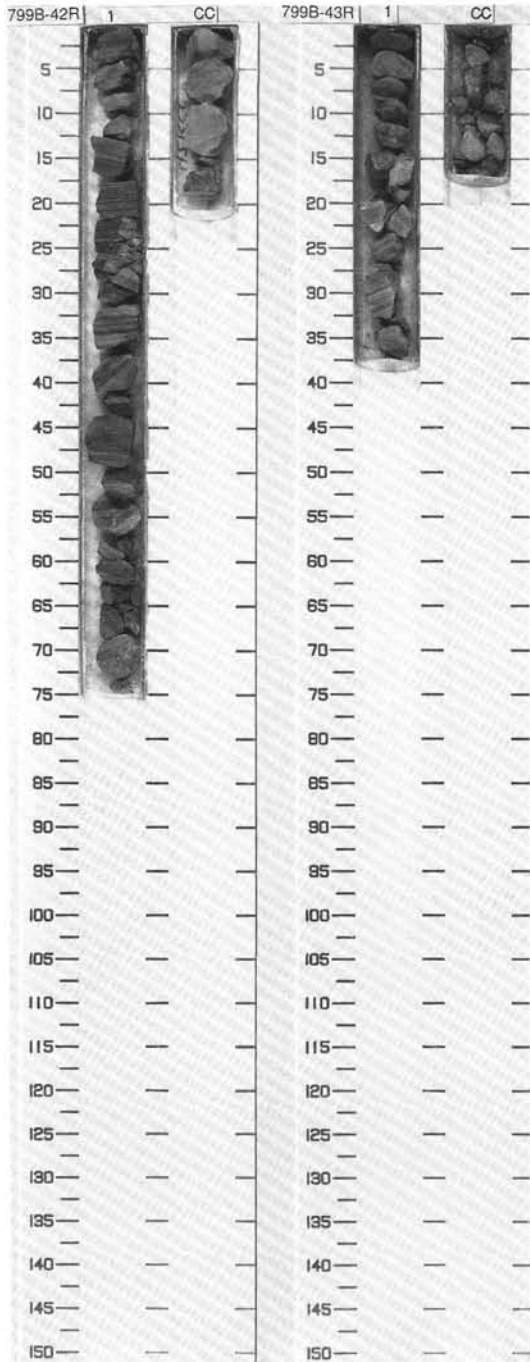


SITE 799 HOLE B CORE 42R CORED INTERVAL 2908.5-2918.1 mbsf; 836.8-846.4 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NAKNOFOSSILS	RADIODIARIANS	DIATOMS	SILICOFRUSTULANS									
MIDDLE MIOCENE (?)	B	B	B	B	B		0-32.7 1.6 XCBC-1.6 XLOC-1.7.4		1 CC	0.5	▲▲▲▲▲▲▲▲▲▲		*	Highly fractured. PORCELLANITE Major lithology: This core contains grayish brown (10YR 5/2 to 10YR 4/2) laminated PORCELLANITE, in some intervals with light-colored CARBONATE-rich layers. Based on XRD results, the silica listed as opal in the smear slide summary is diagenetic quartz. A turbidite interval is present in Section 1, 45-50 cm. It exhibits normal grading and is planar laminated. SMEAR SLIDE SUMMARY (%): D 1.34 TEXTURE: Sand 5 Silt 65 Clay 30 COMPOSITION: Calcite/Dolomite 5 Glass 2 Opal 85 Opagues 3 Quartz 5

SITE 799 HOLE B CORE 43R CORED INTERVAL 2918.1-2927.8 mbsf; 846.4-856.1 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NAKNOFOSSILS	RADIODIARIANS	DIATOMS	SILICOFRUSTULANS									
MIDDLE MIOCENE (?)	R/P-M	B	B	B	B				1 CC		▲▲▲▲▲	XXXXXXXXXX	***	Severe drilling disturbance. DOLOMITIC PORCELLANITE, PORCELLANITE, and CLAYSTONE Major lithologies: a. Section 1 consists entirely of dark grayish brown (10YR 4/2) PORCELLANITE and DOLOMITIC PORCELLANITE with light-colored CARBONATE-rich laminae and lenses. Based on XRD results, the silica listed as opal in the smear slide summary is diagenetic quartz. b. The core catcher contains poorly lithified olive gray (5Y 4/2) CLAYSTONE with SILT. SMEAR SLIDE SUMMARY (%): D 1.20 D 1.32 CC. 8 D TEXTURE: Silt 5 15 10 Clay 95 85 90 COMPOSITION: Calcite/Dolomite 5 30 Tr Clay 10 12 88 Glass - - Tr Opal 75 50 - Opagues 5 3 2 Quartz 5 5 10



SITE 799 HOLE B CORE 44R CORED INTERVAL 2927.8-2937.5 mbsf; 856.1-865.8 mbsf

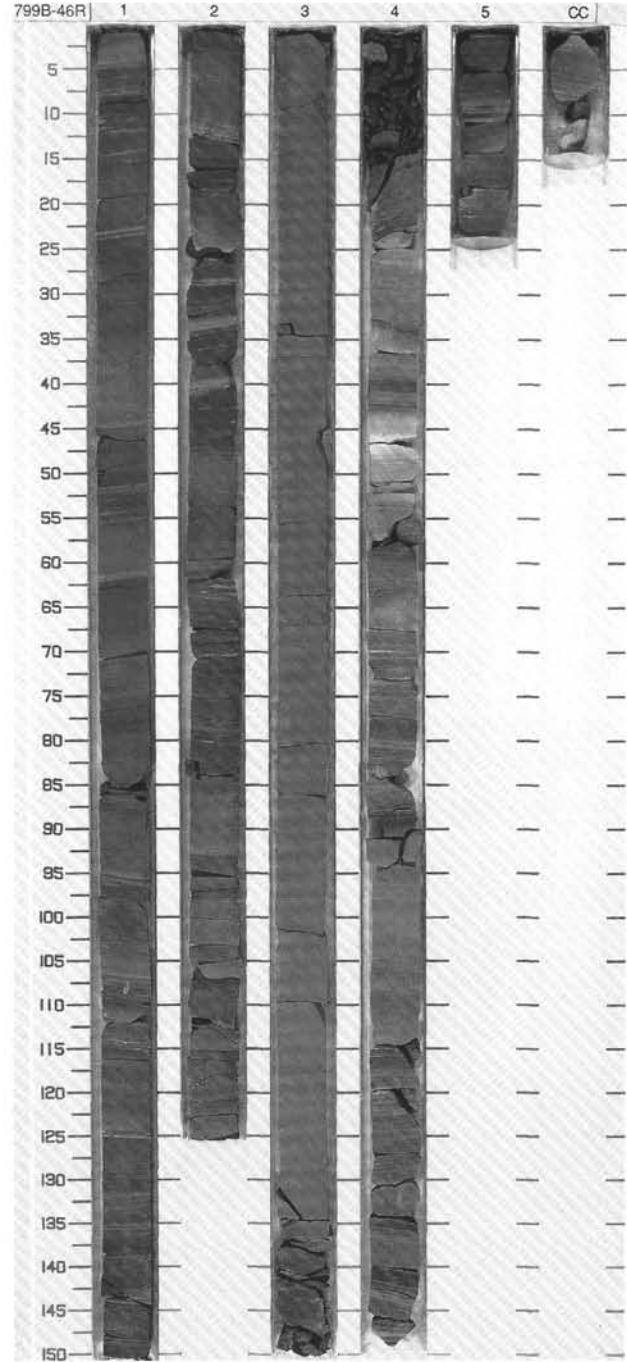
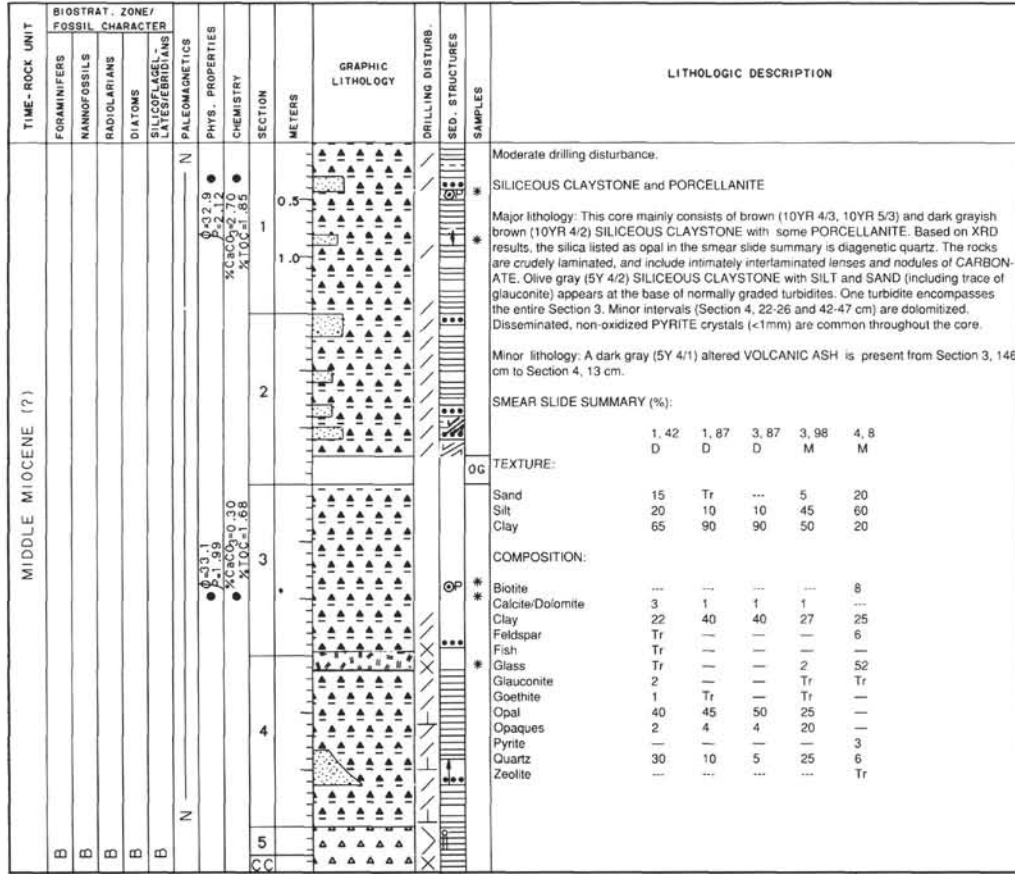
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																
	FORAMINIFERS	NAUFOSSILS	RADIOLARIANS	DIATOMS																									
MIDDLE MIOCENE (?)	B	B	B	R/P			1						Severe drilling disturbance. SANDY SILTSTONE, AUTHIGENIC CARBONATE, CLAYSTONE. Major lithologies: a. Dark gray (5Y 4/1) QUARTZ SANDY SILTSTONE, with traces of GLAUCONITE, occurs in core catcher, 0-2 cm. b. Light olive gray (5Y 6/2) AUTHIGENIC CARBONATE is present in core catcher, 2-8 cm. c. Olive gray (5Y 4/2) CLAYSTONE appears in core catcher, 8-21 cm. SMEAR SLIDE SUMMARY (%): <table style="margin-left: 40px;"> <tr><td>CC, 1</td></tr> <tr><td>D</td></tr> </table> TEXTURE: <table style="margin-left: 40px;"> <tr><td>Sand</td><td>30</td></tr> <tr><td>Silt</td><td>60</td></tr> <tr><td>Clay</td><td>10</td></tr> </table> COMPOSITION: <table style="margin-left: 40px;"> <tr><td>Calcite/Dolomite</td><td>5</td></tr> <tr><td>Glauconite</td><td>1</td></tr> <tr><td>Opagues</td><td>4</td></tr> <tr><td>Quartz</td><td>90</td></tr> </table>	CC, 1	D	Sand	30	Silt	60	Clay	10	Calcite/Dolomite	5	Glauconite	1	Opagues	4	Quartz	90
CC, 1																													
D																													
Sand	30																												
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Clay	10																												
Calcite/Dolomite	5																												
Glauconite	1																												
Opagues	4																												
Quartz	90																												

SITE 799 HOLE B CORE 45R CORED INTERVAL 2937.5-2947.0 mbsf; 865.8-875.3 mbsf

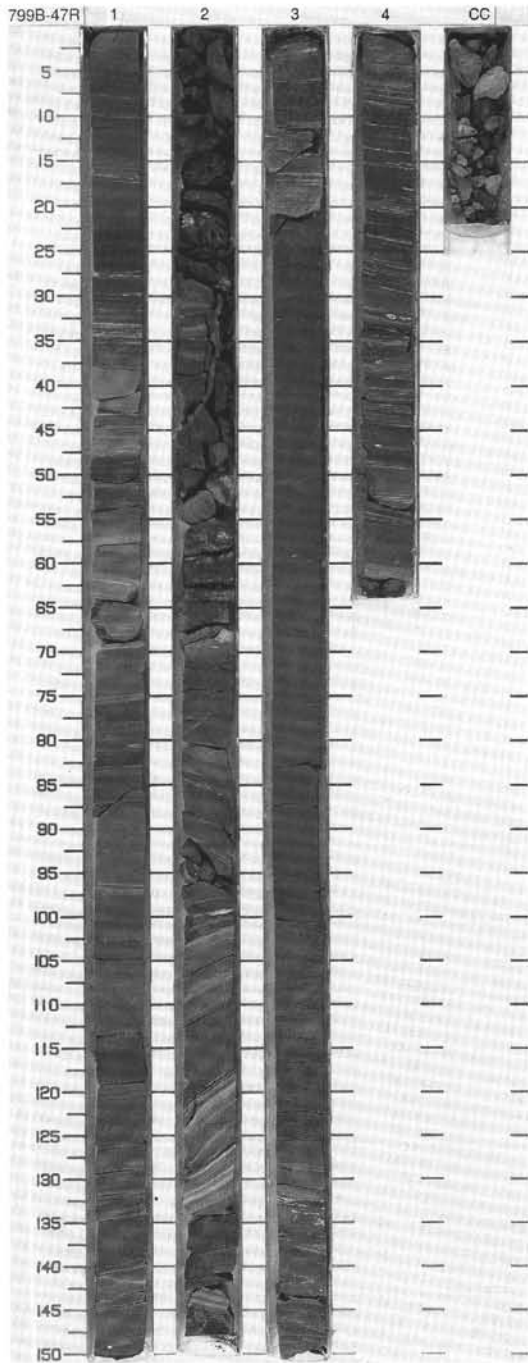
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																															
	FORAMINIFERS	NAUFOSSILS	RADIOLARIANS	DIATOMS																																																																								
MIDDLE MIOCENE (?)	R/P	B	B	B			1						Slight to severe drilling disturbance. PORCELLANITE, SILICEOUS CLAYSTONE, SILICEOUS SILTSTONE, SANDSTONE, and DOLOMITIC PORCELLANITE Major lithology: This core consists of dark gray (5Y 4/1) and dark grayish brown (10YR 4/2) PORCELLANITE, gray (5Y 6/1) DOLOMITIC PORCELLANITE, and olive gray (5Y 4/2) SILICEOUS CLAYSTONE with SILT and SAND, as well as SILICEOUS SILTSTONE, and SANDSTONE. The latter three form genetic sequences representing turbidites, which are sharply based, normally graded, and contain quartz sand and traces (2%) of sand-sized glauconite at the base. The porcellanite is generally coarsely laminated, including lighter-colored CARBONATE-rich laminae, lenses, and small nodules. Based on XRD results, the silica listed as opal in the smear slide summary is diagenetic quartz. SMEAR SLIDE SUMMARY (%): <table style="margin-left: 40px;"> <tr><td>1,44</td><td>1,80</td><td>1,123</td><td>2,39</td></tr> <tr><td>D</td><td>D</td><td>D</td><td>M</td></tr> </table> TEXTURE: <table style="margin-left: 40px;"> <tr><td>Sand</td><td>---</td><td>5</td><td>10</td><td>30</td></tr> <tr><td>Silt</td><td>10</td><td>20</td><td>30</td><td>35</td></tr> <tr><td>Clay</td><td>90</td><td>75</td><td>60</td><td>35</td></tr> </table> COMPOSITION: <table style="margin-left: 40px;"> <tr><td>Calcite/Dolomite</td><td>1</td><td>5</td><td>---</td><td>2</td></tr> <tr><td>Clay</td><td>30</td><td>25</td><td>30</td><td>25</td></tr> <tr><td>Feldspar</td><td>---</td><td>Tr</td><td>Tr</td><td>---</td></tr> <tr><td>Glass</td><td>---</td><td>2</td><td>Tr</td><td>10</td></tr> <tr><td>Glauconite</td><td>---</td><td>2</td><td>2</td><td>2</td></tr> <tr><td>Opal</td><td>50</td><td>45</td><td>30</td><td>25</td></tr> <tr><td>Opagues</td><td>8</td><td>3</td><td>3</td><td>5</td></tr> <tr><td>Quartz</td><td>10</td><td>18</td><td>35</td><td>30</td></tr> </table>	1,44	1,80	1,123	2,39	D	D	D	M	Sand	---	5	10	30	Silt	10	20	30	35	Clay	90	75	60	35	Calcite/Dolomite	1	5	---	2	Clay	30	25	30	25	Feldspar	---	Tr	Tr	---	Glass	---	2	Tr	10	Glauconite	---	2	2	2	Opal	50	45	30	25	Opagues	8	3	3	5	Quartz	10	18	35	30
1,44	1,80	1,123	2,39																																																																									
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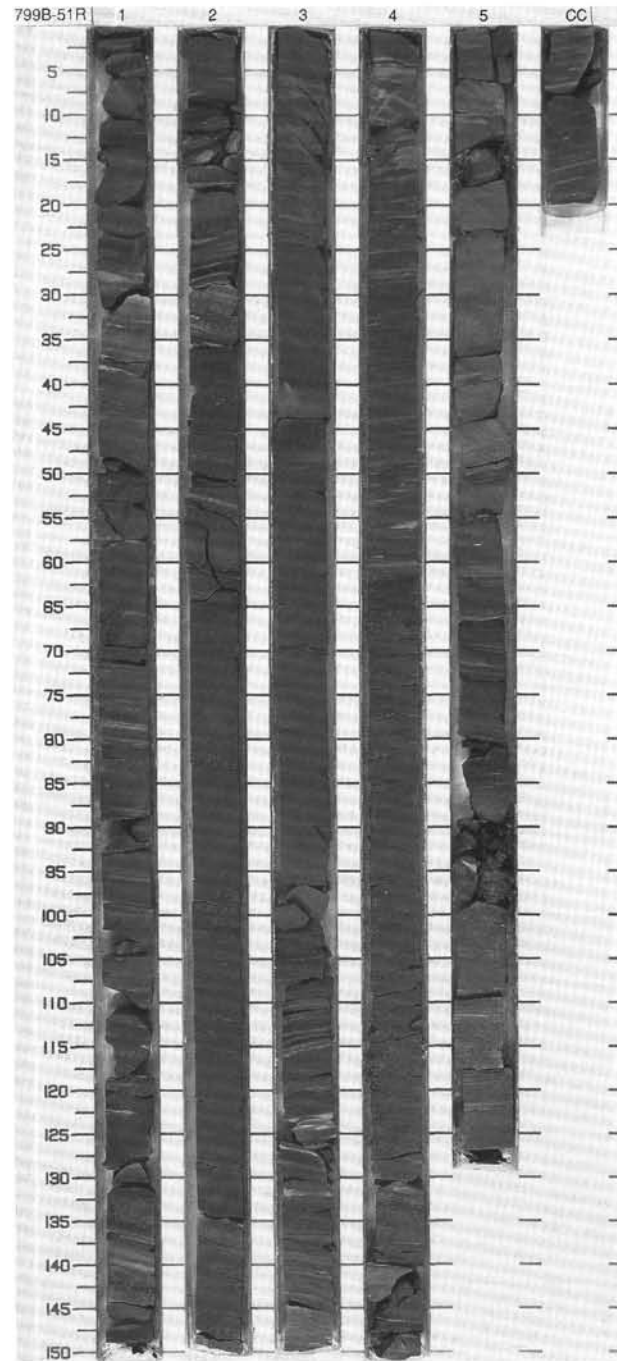
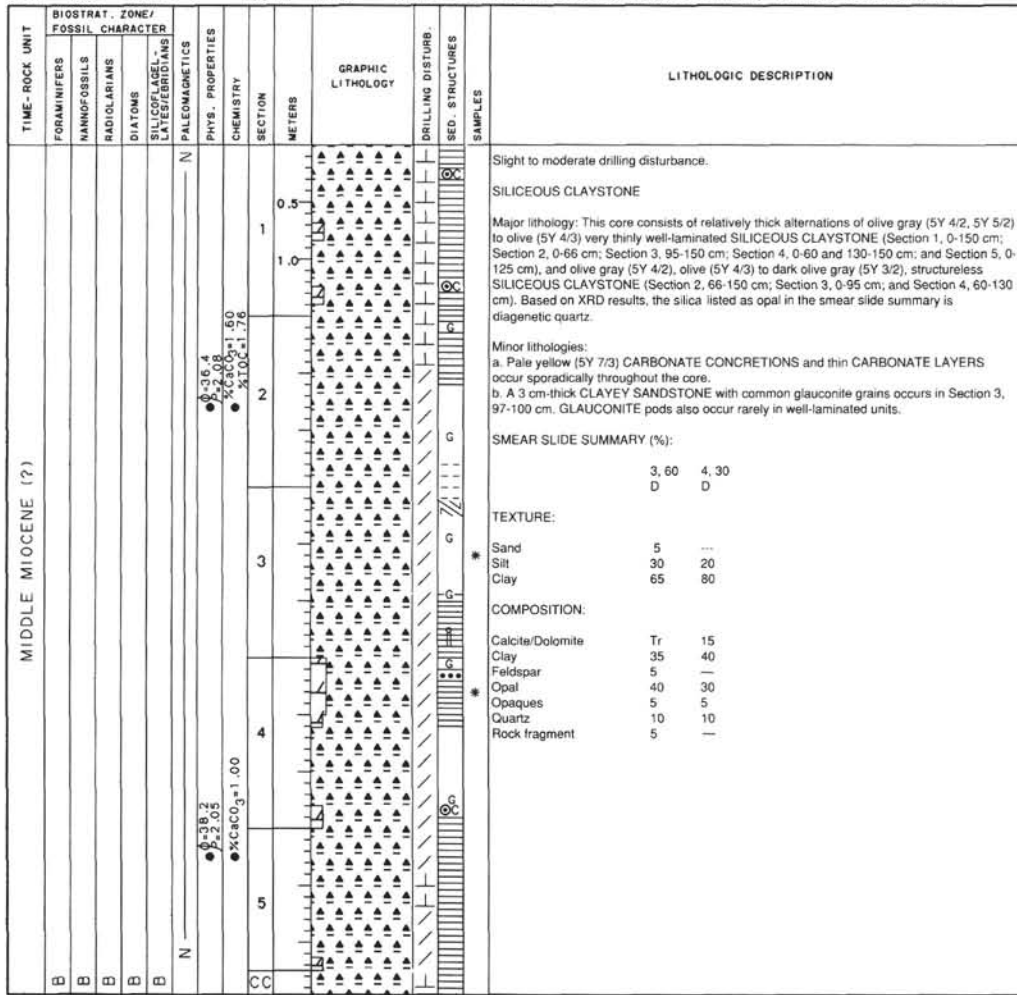


SITE 799 HOLE B CORE 46R CORED INTERVAL 2947.0-2956.7 mbsf; 875.3-885.0 mbsf



TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIDDLE MIOCENE (?)	FORAMINIFERS NANNOFOSSILS RADIOLARIANS DIATOMS SILICOFLAGEL-LATES/FRIBRIANS	N N	\bullet $\%CaCO_3=78.0$ \bullet $\%TOC=0.83$	1 2 3 4	0.5 1.0					<p>Minimal drilling disturbance.</p> <p>SILICEOUS CLAYSTONE, AUTHIGENIC CARBONATE, PORCELLANITE</p> <p>Major lithology: This core mainly consists of brown to dark brown to very dark grayish brown (10YR 5/2-10YR 4/2-10YR 3/2), dark gray (10YR 4/1), and dark olive gray (5Y 3/2) laminated SILICEOUS CLAYSTONE, in some intervals with SILT; and brown PORCELLANITE in Section 4, 1-63 cm. Fine laminations of white AUTHIGENIC CARBONATE (up to 30% of rock volume) are common within the siliceous claystone and porcellanite. An ASHY CLAYSTONE is present in Section 2, 0-65 cm; the lower part (30-65 cm), which is in vertical contact with laminated siliceous claystone, probably represents a clastic dike. Sharply based graded beds are common throughout the core; they are generally grayish in color and contain medium sand-sized detritus. Dewatering vein structures and normal faults are common in laminated intervals. Siliceous claystones commonly contain finely disseminated pyrite.</p> <p>Minor lithology: CARBONATE CONCRETIONS with well-developed pyrite cores are present in Section 4, 31 and 38 cm.</p>
			\bullet $\%CaCO_3=1.30$ \bullet $\%TOC=2.26$	CC						



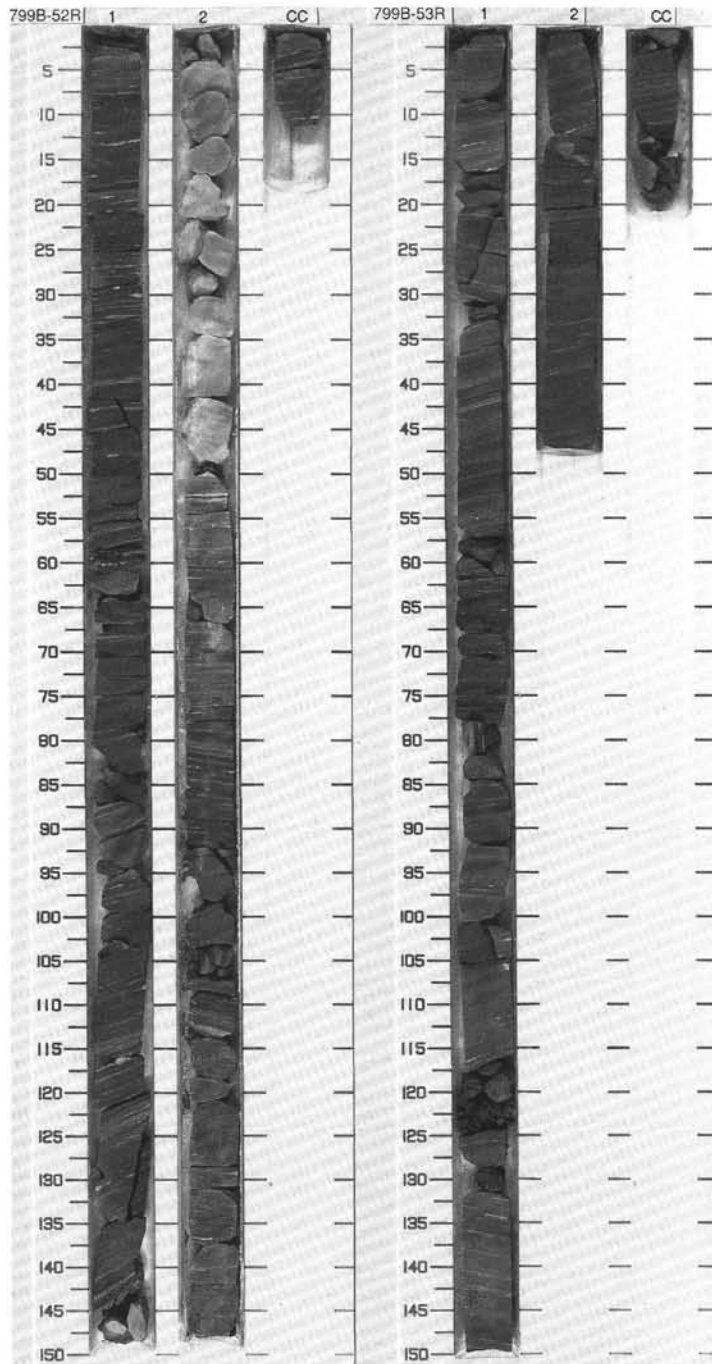


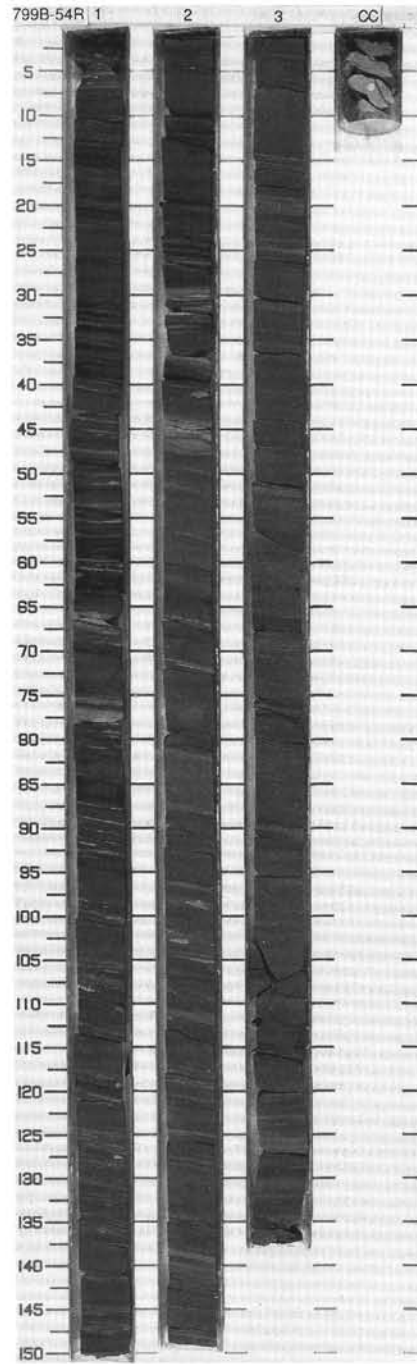
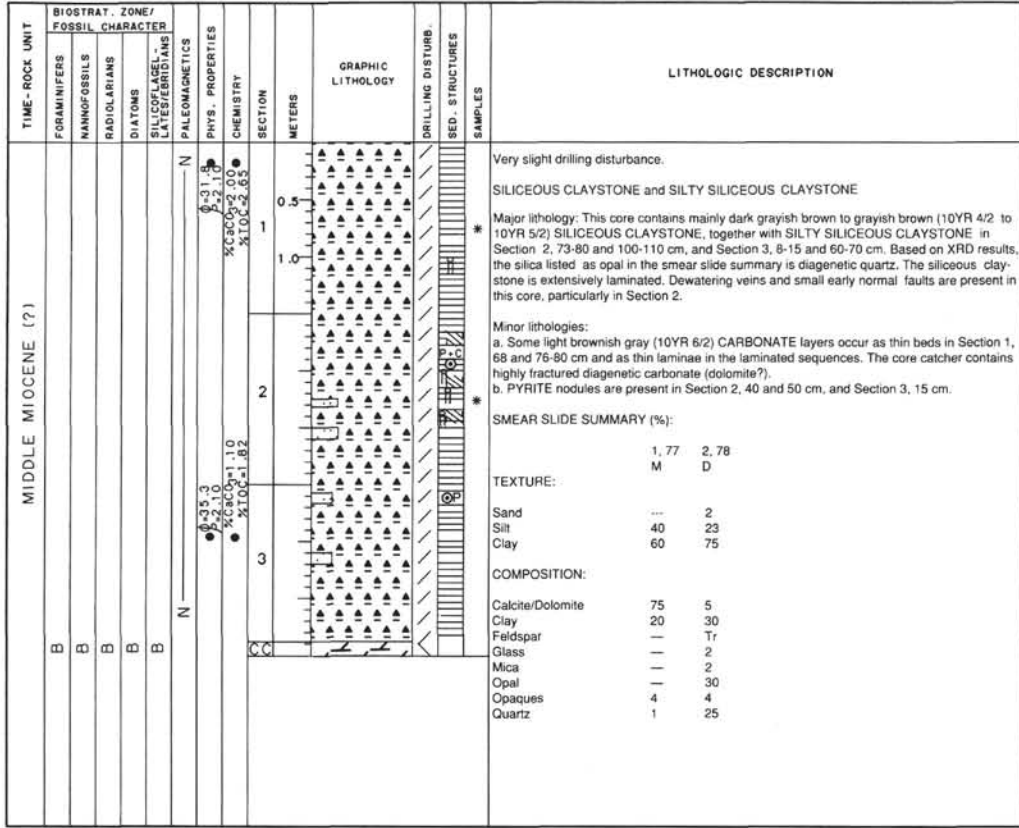
SITE 799 HOLE B CORE 52R CORED INTERVAL 3004.6-3014.3 mbsl; 932.9-942.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	SILICOCLASTIC LATES/EBBIDIANIS							
MIDDLE MIOCENE (?)	B	B	B	B	B	1	0.5	[Lithology symbols]	XRD		Moderate drilling disturbance. SILICEOUS CLAYSTONE and AUTHIGENIC CARBONATE Major lithology: This core consists of laminated dark gray to very dark gray (10YR 3/1-10YR 4/1) SILICEOUS CLAYSTONE, thinly interlaminated with white wispy laminae, granular layers and minor lozenge-shaped nodules of AUTHIGENIC CARBONATE. Section 2, 0-50 cm consists of a massive, brecciated bed of olive (5Y 5/3) AUTHIGENIC CARBONATE which is distinctly different in color, texture and cohesiveness from the thin carbonate laminae interlayered with the siliceous claystone. XRD analysis shows that this bed is mainly dolomite with minor quartz.	
						2	1.0	[Lithology symbols]	XRD			
						CC						

SITE 799 HOLE B CORE 53R CORED INTERVAL 3014.3-3023.9 mbsl; 942.6-952.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	SILICOCLASTIC LATES/EBBIDIANIS							
MIDDLE MIOCENE (?)	R/P	B	B	B	B	1	0.5	[Lithology symbols]	XRD		Moderate drilling disturbance. SILICEOUS CLAYSTONE and AUTHIGENIC CARBONATE Major lithology: This core contains laminated SILICEOUS CLAYSTONE with OPAQUES, which ranges in color from dark gray to very dark gray (5Y 4/1-5Y 3/1). Based on XRD results, the silica listed as opal in the smear slide summary is diagenetic quartz. Interlamination and minor nodular concretions of lighter-colored AUTHIGENIC CARBONATE are present throughout the core. SMEAR SLIDE SUMMARY (%): TEXTURE: Silt — 5 Clay 100 95 COMPOSITION: Calcite/Dolomite 94 1 Clay 5 44 Opal — 44 Opaques 1 10 Organic matter — Tr Quartz — Tr	
						2	1.0	[Lithology symbols]	XRD			
						CC						



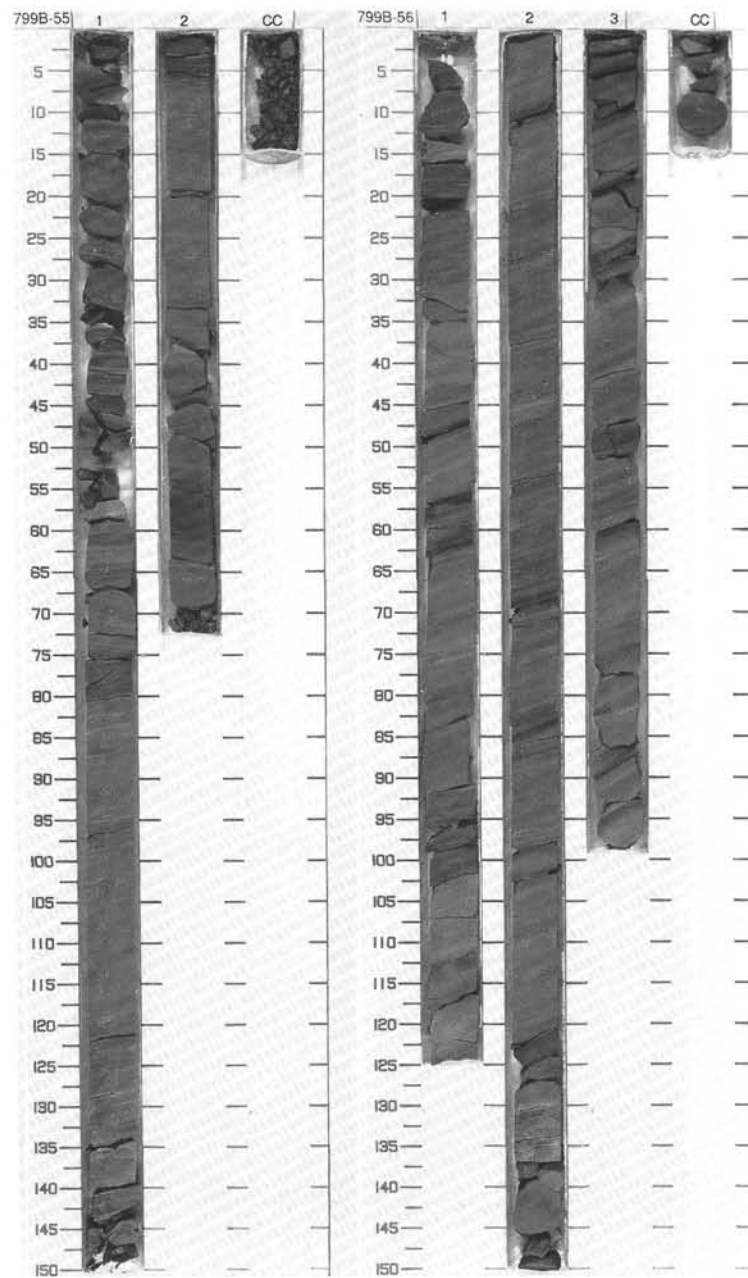


SITE 799 HOLE B CORE 55R CORED INTERVAL 3033.5-3043.2 mbsl; 961.8-971.5 mbsf

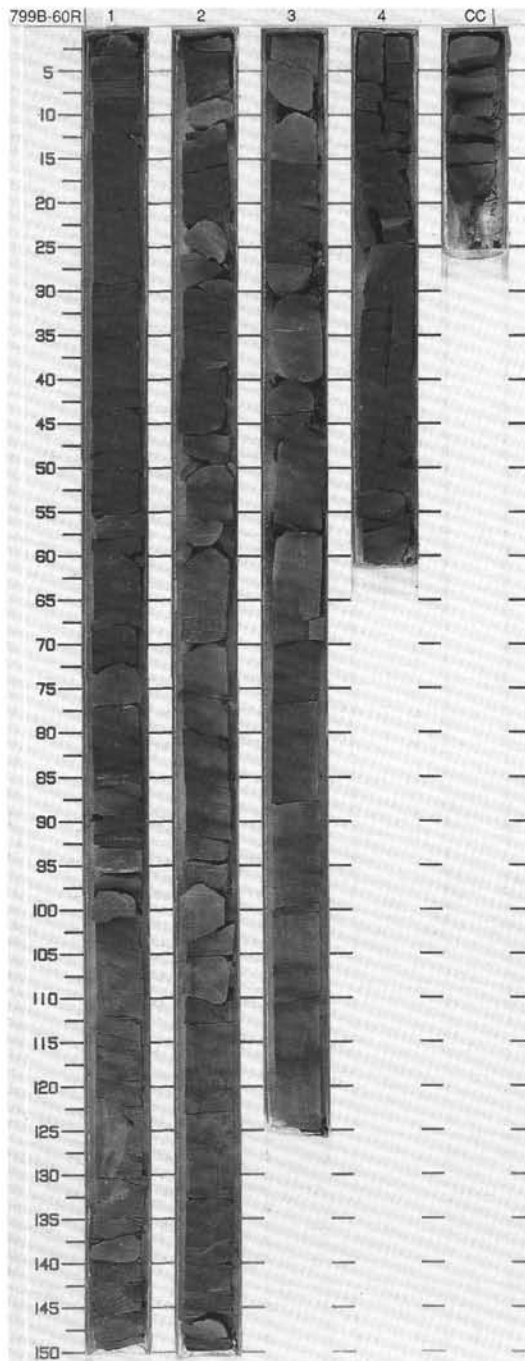
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																								
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	SILICIFLAGEL- LATES/BRIDGEMANS																																	
MIDDLE MIOCENE (?)	R/P	B	B	B	B	$\phi = 3.4, 0$ $\gamma = 2.2, 0.8$	$\%CaCO_3 = 0.30$ $\times 10^2 = 1.03$	1	0.5 1.0		Severe drilling disturbance.			<p>PORCELLANITE and SILICEOUS CLAYSTONE</p> <p>Major lithology: This core consists of dark grayish brown (10YR 4/2) to olive gray (5Y 4/2) PORCELLANITE and SILICEOUS CLAYSTONE. Based on XRD results, the silica listed as opal in the smear slide summary is diagenetic quartz. The sediments are finely interlamated with CARBONATE-rich laminae and lenses. An interval of gray (5Y 6/1) dolomitic porcellanite is present in Section 1, 52-60 cm. Normally graded beds in Section 1, 139-142 cm, and Section 2, 32 cm, contain sand-sized quartz, volcanic glass, and glauconite at the base.</p> <p>Minor lithology: The core catcher, 0-15 cm, consists of dark gray (5Y 4/1) CLAYSTONE with ASH.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr><td>1, 142</td></tr> <tr><td>M</td></tr> </table> <p>TEXTURE:</p> <table border="0"> <tr><td>Sand</td><td>30</td></tr> <tr><td>Silt</td><td>15</td></tr> <tr><td>Clay</td><td>55</td></tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr><td>Calcite/Dolomite</td><td>5</td></tr> <tr><td>Clay</td><td>20</td></tr> <tr><td>Feldspar</td><td>1</td></tr> <tr><td>Glass</td><td>10</td></tr> <tr><td>Glauconite</td><td>3</td></tr> <tr><td>Opal</td><td>44</td></tr> <tr><td>Opakes</td><td>2</td></tr> <tr><td>Quartz</td><td>15</td></tr> </table>	1, 142	M	Sand	30	Silt	15	Clay	55	Calcite/Dolomite	5	Clay	20	Feldspar	1	Glass	10	Glauconite	3	Opal	44	Opakes	2	Quartz	15
1, 142																																						
M																																						
Sand	30																																					
Silt	15																																					
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Quartz	15																																					

SITE 799 HOLE B CORE 56R CORED INTERVAL 3043.2-3052.8 mbsl; 971.5-981.1 mbsf

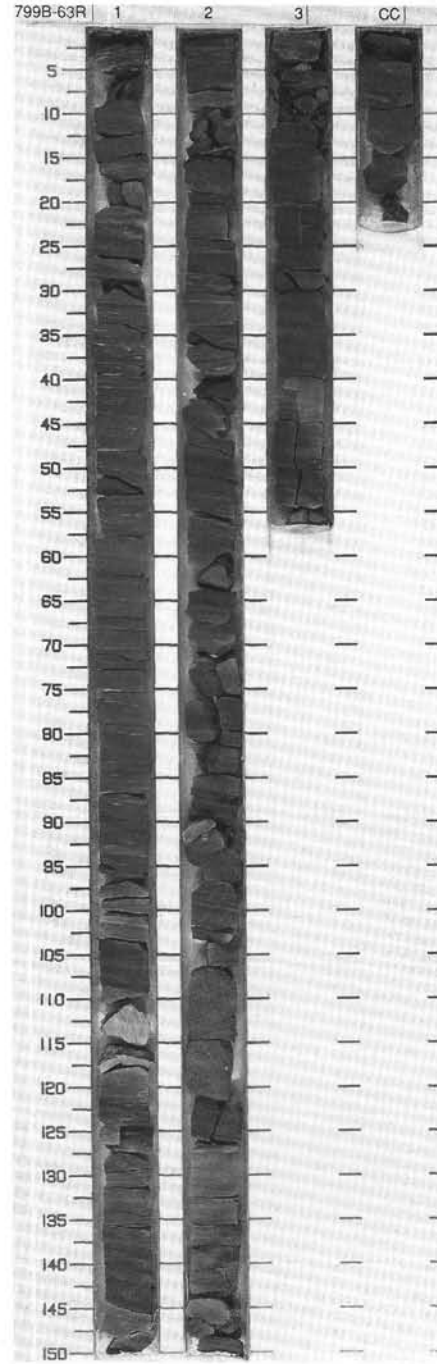
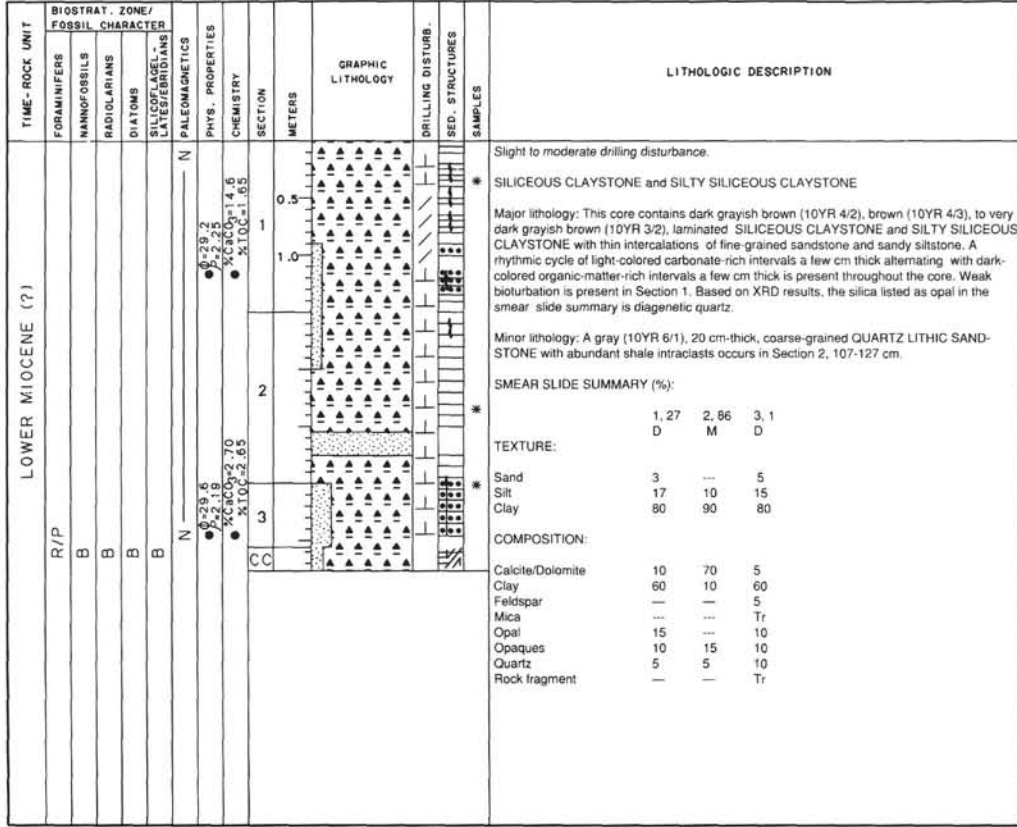
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	SILICIFLAGEL- LATES/BRIDGEMANS									
LOWER - MIDDLE MIOCENE (?)	R/P	?	B	B	B	$\phi = 2.7, 4$ $\gamma = 2.0, 2$	$\%CaCO_3 = 0.20$ $\times 10^2 = 1.53$	1	0.5 1.0		Moderate to severe drilling disturbance.			<p>PORCELLANITE and SILICEOUS CLAYSTONE</p> <p>Major lithology: This core consists of dark brownish gray (10YR 4/2) PORCELLANITE and SILICEOUS CLAYSTONE. The sediments are coarsely laminated to finely bedded and contain CARBONATE-rich laminae and lenses. Sandy and silty laminae and normally graded sequences with SILICEOUS CLAYSTONE and PORCELLANITE with SAND and SILT (including small amounts of GLAUCONITE) at the base are common in this core. The bedding attitude is generally oblique in this core (10-30), probably soft-sediment deformation</p>



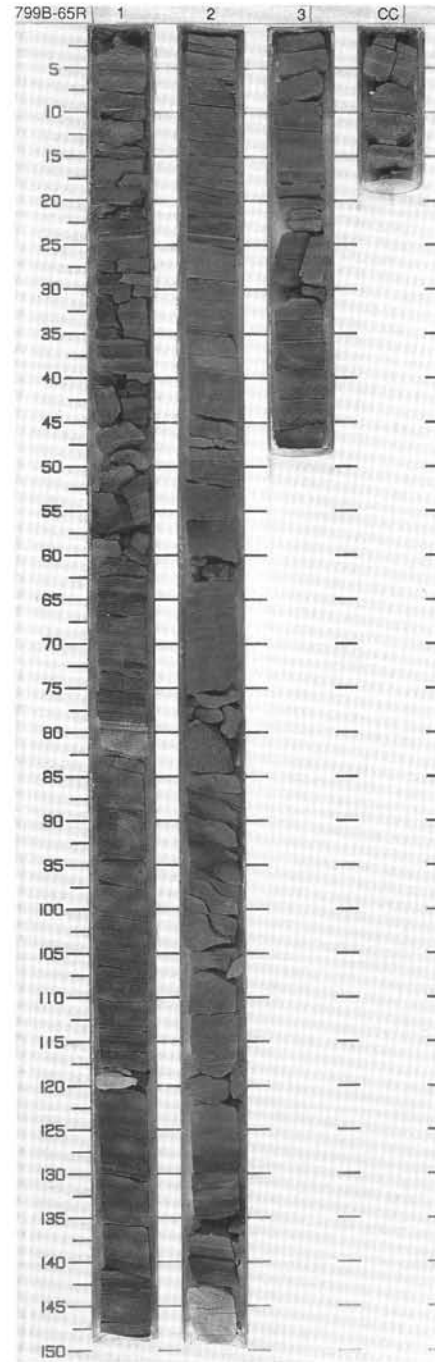
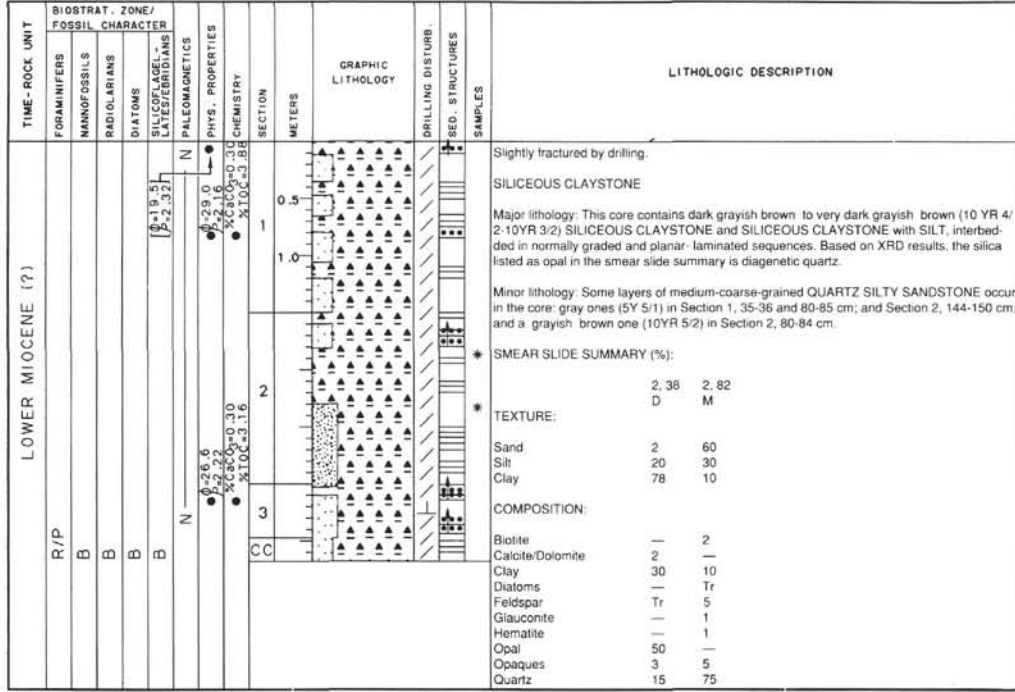
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	PHYS. PROPERTIES	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
LOWER MIOCENE (?)									
B	FORAMINIFERS	$\rho = 2.16$		0.5					Slightly fractured by drilling.
B	NANNOFOSSILS	$\rho = 2.16$		1.0					SILICEOUS CLAYSTONE
B	RADIOLARIANS	$\rho = 2.16$		1.5					Major lithology: This core contains mainly homogeneous dark grayish brown (10YR 4/2 to 10YR 3/2) SILICEOUS CLAYSTONE together with SILICEOUS CLAYSTONE with SILT in some thin laminae, in Section 2, 70-120 cm, and in the core catcher. A few laminated intervals of siliceous claystone occur in Section 1, 5-35cm and Section 2, 90 cm. Based on XRD results, the silica listed as opal in the smear slide summary is diagenetic quartz.
B	DIAATOMS	$\rho = 2.16$		2.0					Minor lithology: A normally graded and laminated thin interval of dark gray (10YR 4/1) SILTSTONE is present in Section 1, 5-8 cm.
B	SILICOFLAGELL. LATEFERRIDIANIS	$\rho = 2.16$		2.5					SMEAR SLIDE SUMMARY (%):
B	PALEOMAGNETICS	$\rho = 2.16$		3.0					Sand 10
		$\rho = 2.16$		3.5					Silt 10
		$\rho = 2.16$		4.0					Clay 80
		$\rho = 2.16$		4.5					COMPOSITION:
		$\rho = 2.16$		5.0					Clay 20
		$\rho = 2.16$		5.5					Glass 2
		$\rho = 2.16$		6.0					* Hematite 3
		$\rho = 2.16$		6.5					Opal 65
		$\rho = 2.16$		7.0					Opagues 2
		$\rho = 2.16$		7.5					Quartz 5
		$\rho = 2.16$		8.0					
		$\rho = 2.16$		8.5					
		$\rho = 2.16$		9.0					
		$\rho = 2.16$		9.5					
		$\rho = 2.16$		10.0					
		$\rho = 2.16$		10.5					
		$\rho = 2.16$		11.0					
		$\rho = 2.16$		11.5					
		$\rho = 2.16$		12.0					
		$\rho = 2.16$		12.5					
		$\rho = 2.16$		13.0					
		$\rho = 2.16$		13.5					
		$\rho = 2.16$		14.0					
		$\rho = 2.16$		14.5					
		$\rho = 2.16$		15.0					



SITE 799 HOLE B CORE 63R CORED INTERVAL 3110.8-3120.5 mbsl; 1039.1-1048.8 mbsf



SITE 799 HOLE B CORE 65R CORED INTERVAL 3130.1-3139.8 mbsi; 1058.4-1068.1 mbsf

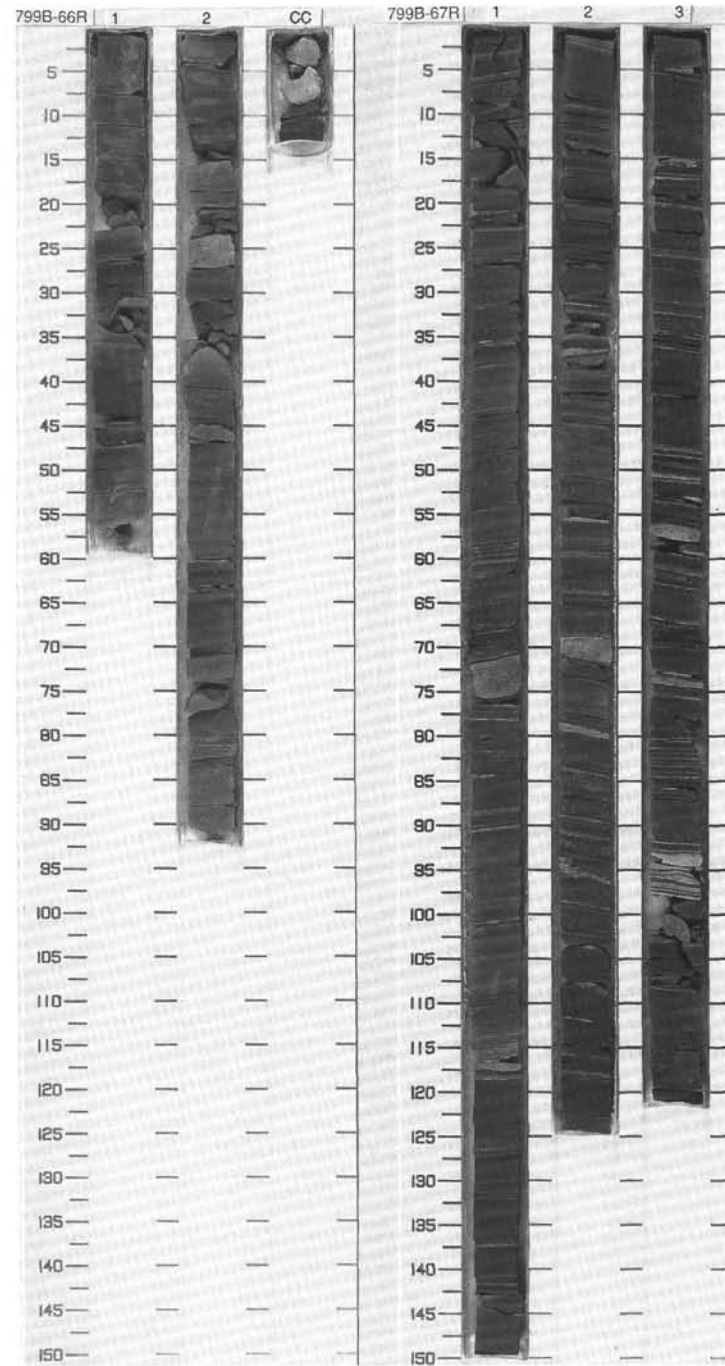


SITE 799 HOLE B CORE 66R CORED INTERVAL 3139.8-3149.4 mbsl; 1068.1-1077.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																				
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	SILICOFLAGEL- LATES/FERRIDIAN																											
LOWER MIOCENE	B					1						<p>Moderate drilling disturbance.</p> <p>CLAYSTONE AND SILTY SANDSTONE</p> <p>Major lithology: The sediments in this core consist of very dark gray (10YR 3/1) CLAYSTONE, SILTY CLAYSTONE, and gray (5Y 5/1) SILTY SANDSTONE. Sediments are planar laminated except for beds of sandstone, which are up to 4 cm thick, are sharply based (with occasional load casts) and normally graded. The sand consist mainly of quartz, and includes feldspar, biotite, glauconite, pyrite, and biogenic carbonate fragments. The sandstone is carbonate-cemented in Section 2, 23-27 cm.</p> <p>Minor lithology: A gray (5Y 5/1) DOLOMITE bed occurs in the core catcher, 0-6 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>2, 27</td> </tr> <tr> <td>D</td> <td></td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>3</td> </tr> <tr> <td>Silt</td> <td>67</td> </tr> <tr> <td>Clay</td> <td>30</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Calcite/Dolomite</td> <td>46</td> </tr> <tr> <td>Clay</td> <td>15</td> </tr> <tr> <td>Feldspar</td> <td>5</td> </tr> <tr> <td>Opauques</td> <td>2</td> </tr> <tr> <td>Quartz</td> <td>30</td> </tr> </table>		2, 27	D		Sand	3	Silt	67	Clay	30	Calcite/Dolomite	46	Clay	15	Feldspar	5	Opauques	2	Quartz	30
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Opauques	2																															
Quartz	30																															
	B					2																										

SITE 799 HOLE B CORE 67R CORED INTERVAL 3149.4-3155.7 mbsl; 1077.7-1084.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																				
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	SILICOFLAGEL- LATES/FERRIDIAN																																																											
LOWER MIOCENE (?)	B					1						<p>Moderate drilling disturbance.</p> <p>CLAYSTONE and SILTY SANDSTONE</p> <p>Major lithology: The sediments in this core consist of planar laminated to thinly bedded, very dark brownish gray (10YR 3/1) CLAYSTONE, intercalated with layers of SILTY SAND and SILTY SANDSTONE up to 3 cm thick. The sand is sharply based, occasionally laminated, and rarely cross laminated (e.g., in Section 2, 35-36 cm). The sand predominately consists of coarse sand-sized quartz grains, and includes biotite, pyrite, glauconite, biogenic calcite, and iron hydroxides.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 74</td> <td>2, 46</td> <td>2, 69</td> </tr> <tr> <td>M</td> <td></td> <td>D</td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>25</td> <td>Tr</td> <td>10</td> </tr> <tr> <td>Silt</td> <td>65</td> <td>15</td> <td>70</td> </tr> <tr> <td>Clay</td> <td>10</td> <td>85</td> <td>20</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Biotite</td> <td>Tr</td> <td>--</td> <td>Tr</td> </tr> <tr> <td>Calcite/Dolomite</td> <td>40</td> <td>Tr</td> <td>33</td> </tr> <tr> <td>Clay</td> <td>10</td> <td>77</td> <td>15</td> </tr> <tr> <td>Diatoms</td> <td>Tr</td> <td>--</td> <td>Tr</td> </tr> <tr> <td>Feldspar</td> <td>5</td> <td>--</td> <td>Tr</td> </tr> <tr> <td>Glauconite</td> <td>5</td> <td>--</td> <td>Tr</td> </tr> <tr> <td>Opauques</td> <td>1</td> <td>3</td> <td>2</td> </tr> <tr> <td>Quartz</td> <td>40</td> <td>20</td> <td>40</td> </tr> </table>		1, 74	2, 46	2, 69	M		D	M	Sand	25	Tr	10	Silt	65	15	70	Clay	10	85	20	Biotite	Tr	--	Tr	Calcite/Dolomite	40	Tr	33	Clay	10	77	15	Diatoms	Tr	--	Tr	Feldspar	5	--	Tr	Glauconite	5	--	Tr	Opauques	1	3	2	Quartz	40	20	40
		1, 74	2, 46	2, 69																																																												
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	B					2																																																										



SITE 799

128-799A-30X-01 (Piece 1,1-3 cm)

OBSERVER: POU

WHERE SAMPLED: Gravel

ROCK NAME: Rhyolite

GRAIN SIZE: Medium-grained

TEXTURE: Hyalophyric

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Feldspath	20	20	.5-2		Subhedral	
Quartz	15	15	.3-1.5		Subhedral	
GROUNDMASS						
Feldspath	15	15	.01-.2		Anhedral	
Quartz-tridymite	15	15	.01-.2		Anhedral	
Biotite, (pyroxene)	4	8	.05-.15		Subhedral	
Magnetite	2	2	.02-.1		Euhedral	
SECONDARY MINERALOGY	PERCENT	REPLACING/FILLING				COMMENTS
Smectite	25	Glass			Perlitic cracks.	
Fe-oxide	4	Biotite, (pyroxene)				

VESICLES/CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	0				

128-799B-58R-01 (Piece 1,34-37 cm)

OBSERVER: POU

WHERE SAMPLED: Tuff

ROCK NAME: Calcite

GRAIN SIZE: Silt-sized

TEXTURE: Rhombic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
Calcite	100	100	.5-.8		Euhedral	Rhombic and radiate sheaflike crystals
VESICLES/CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE	
Vesicles	None					

128-799B-58R-01 (Piece 1,48-49 cm)

OBSERVER: POU

WHERE SAMPLED: Tuff flow

ROCK NAME: Acidic tuff

GRAIN SIZE: Silt

TEXTURE:

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
Glass	0	55	.05-.15		Fragments	Totally altered
Clay	40	40	<.004		Flakes	
Pyrite	2	2	.05		Euhedral	
Quartz/Feldspar	2	2	.1		Grains	
Biotite	1	1	.1		Flakes	
SECONDARY MINERALOGY	PERCENT	REPLACING/FILLING				COMMENTS
Quartz	55	Glass				
VESICLES/CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE	
Vesicles	None					

128-799B-58R-01 (Piece 1,85-86 cm)

OBSERVER: POU

WHERE SAMPLED: Tuff flow

ROCK NAME: Acidic tuff

GRAIN SIZE: Silt

TEXTURE:

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
Glass	0	75	.05-.15		Fragments	Totally altered
Clay	15	15	<.004		Flakes	
Quartz/feldspar	6	6	.15		Fragments	
Pyrite	1	1	.05		Euhedral	
Biotite	3	3	.15		Flakes	

SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING	COMMENTS
Quartz	75	Glass	

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	None				