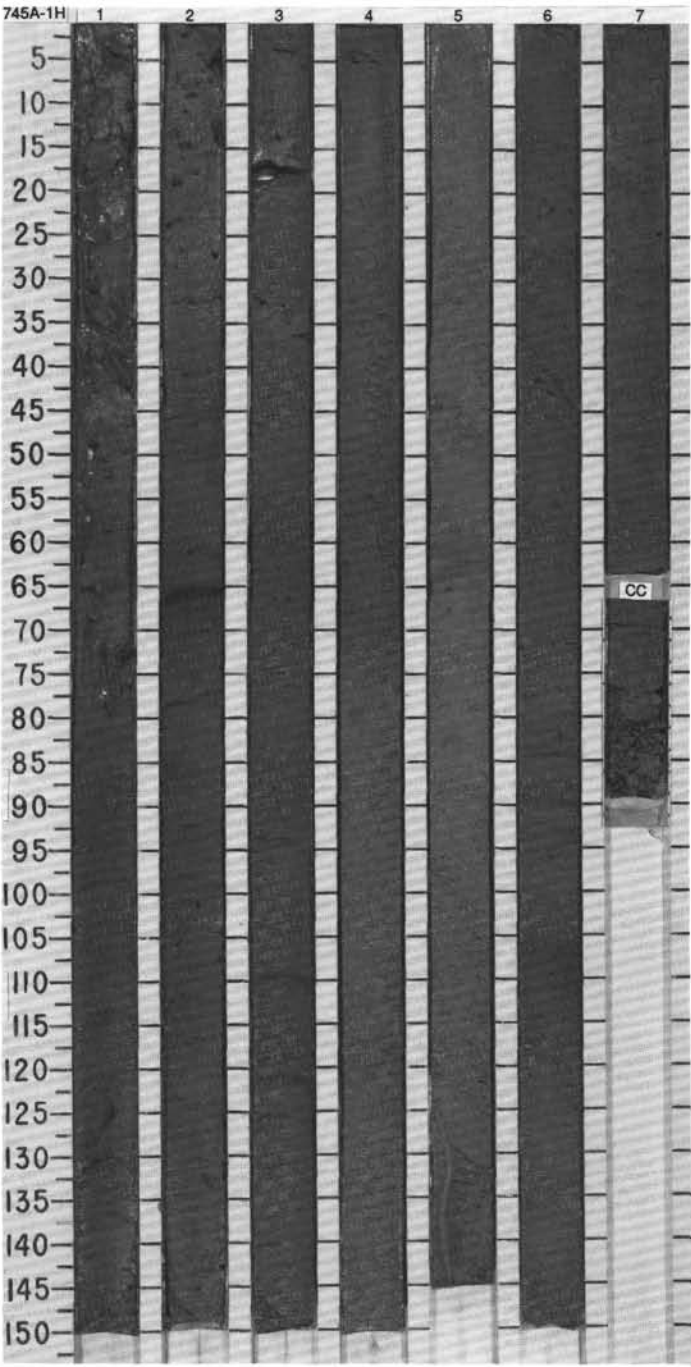


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
QUATERNARY														
	B	R/M	A/G	A/G										
	NR1													
	<i>Thalassiosira lentiginosa</i>													
					V=1501 W=63.8%	● $\phi=82\%$ ● $\psi=1.37$								
					V=1465 W=57%	● $\phi=79\%$ ● $\psi=1.48$								
					V=1489 W=72%	● $\phi=84\%$ ● $\psi=1.27$	● %CaCO ₃ =0.1							
					%CaCO ₃ =0.1	XTOC=0.27								

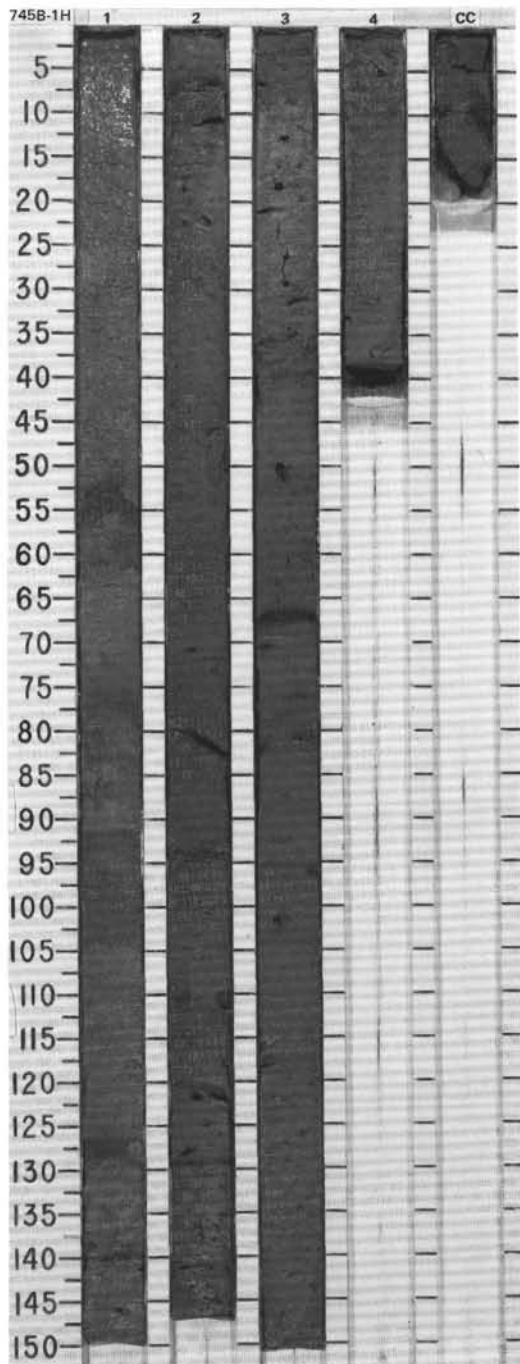


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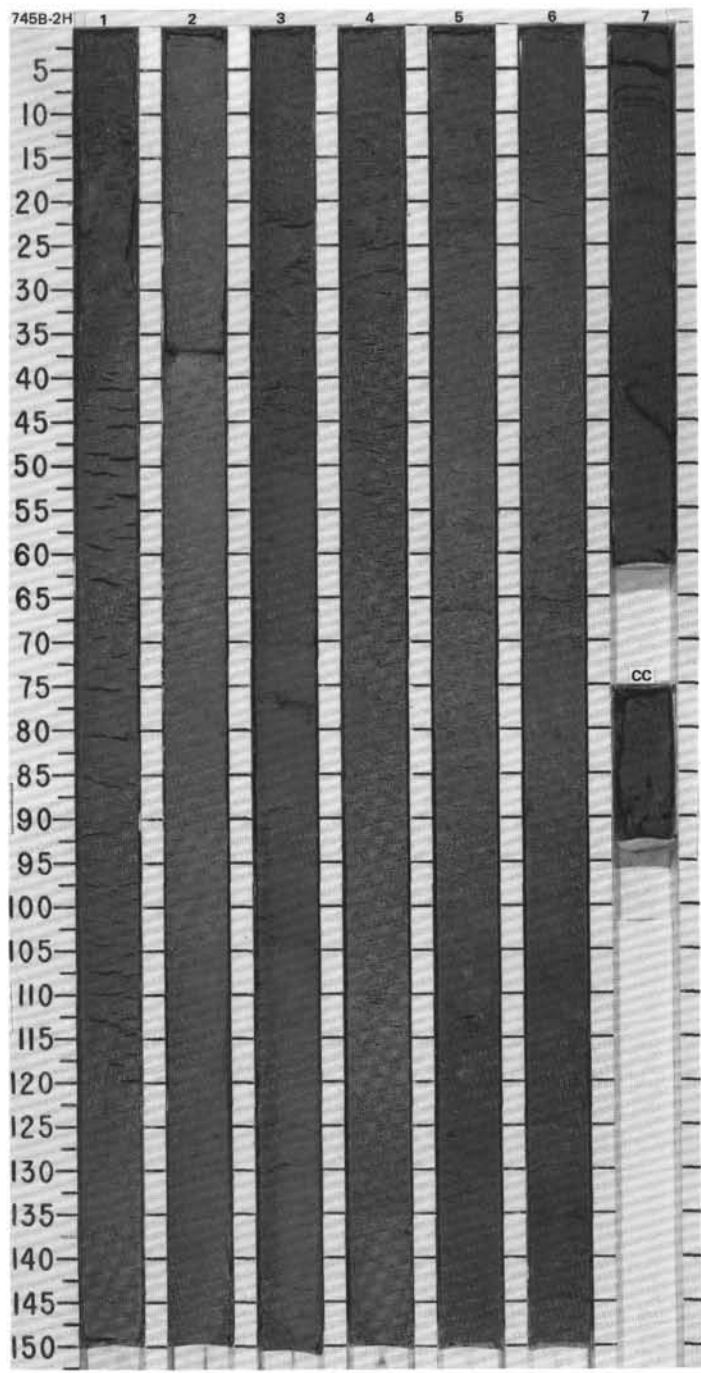
SITE 745

SITE 745 HOLE B CORE 1H CORED INTERVAL 0.0-5.0 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																				
QUATERNARY	FORAMINIFERS NANNOFSSILS RADIOLARIANS DIATOMS																																																															
B	F/G	<i>Neogloboquadrina pachyderma interval</i>				1	0.5					<p>DIATOM OOZE</p> <p>Major lithology: Diatom ooze, homogeneous apart from occasional burrows, mottles and laminae, in colors pale brown ("unnamed" 2.5Y 6/3, "unnamed" 2.5Y 4/3; Section 1), grayish brown (2.5Y 5/2), dark greenish gray (5G 4/1, 5G 3/1; Section 2), dark gray ("unnamed" 10Y 4/1; Sections 3, 4, CC). Contains darker gray (5G 3/1) laminae (Section 2, 16, 120, 129 cm; Section 3, 40, 66, 96, 103, 120 cm) and also paler ("unnamed" 2.5Y 6/3) and darker ("unnamed" 2.5Y 4/3) mottles. Several open (void) burrows up to 1 cm diameter exist at Section 3, 10-100 cm and in Section 4.</p> <p>Drilling disturbance: This shows as soupy deformation in Section 1, and bowed laminae throughout.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 100</td> <td>2, 63</td> <td>3, 67</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>1</td> <td>1</td> <td>2</td> </tr> <tr> <td>Silt</td> <td>83</td> <td>82</td> <td>78</td> </tr> <tr> <td>Clay</td> <td>16</td> <td>17</td> <td>20</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Amphibole</td> <td>—</td> <td>—</td> <td>1</td> </tr> <tr> <td>Diatoms</td> <td>80</td> <td>85</td> <td>80</td> </tr> <tr> <td>Feldspar</td> <td>7</td> <td>4</td> <td>5</td> </tr> <tr> <td>Glass</td> <td>—</td> <td>—</td> <td>1</td> </tr> <tr> <td>Quartz</td> <td>10</td> <td>6</td> <td>7</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td>Tr</td> <td>1</td> </tr> <tr> <td>Silicoflagellates</td> <td>—</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Spicules</td> <td>—</td> <td>Tr</td> <td>Tr</td> </tr> </table>		1, 100	2, 63	3, 67		D	D	M	Sand	1	1	2	Silt	83	82	78	Clay	16	17	20	Amphibole	—	—	1	Diatoms	80	85	80	Feldspar	7	4	5	Glass	—	—	1	Quartz	10	6	7	Radiolarians	Tr	Tr	1	Silicoflagellates	—	Tr	Tr	Spicules	—	Tr	Tr
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A/G		NR1				3																																																										
A/G		<i>Thalassiosira lentiginosa</i>				4																																																										
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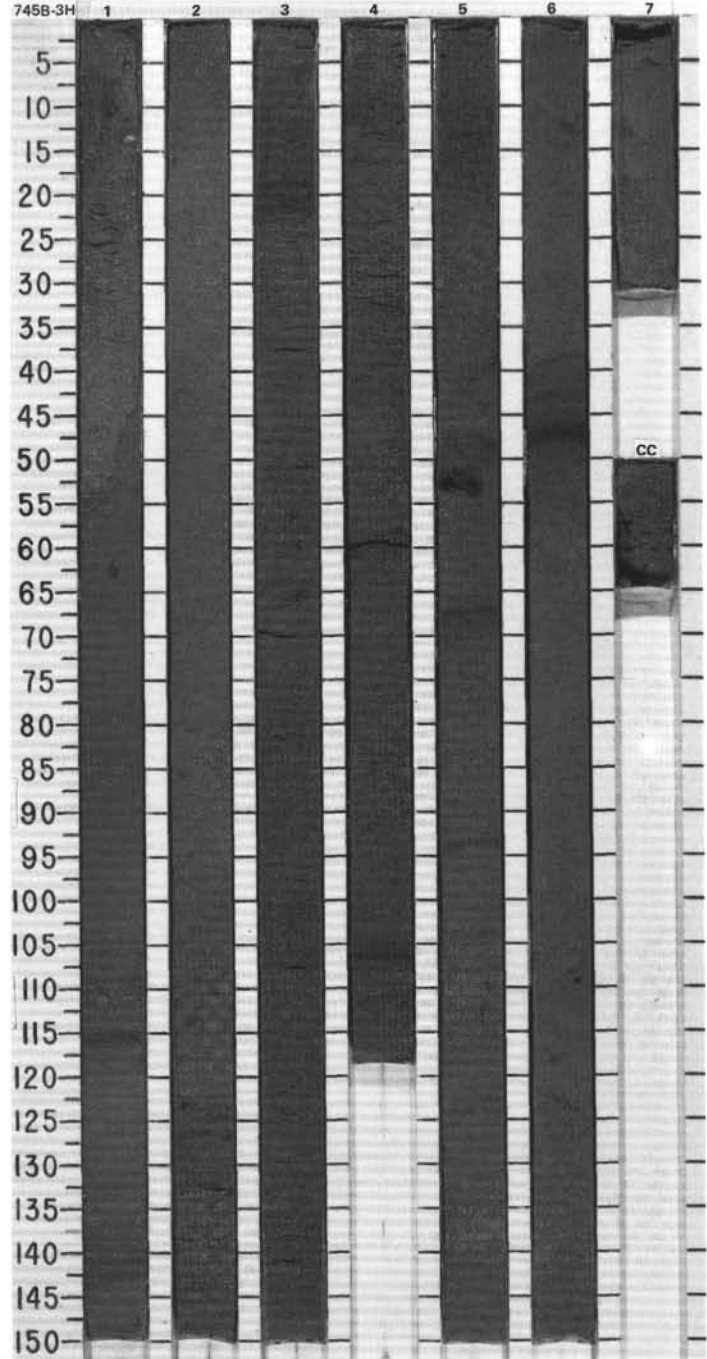


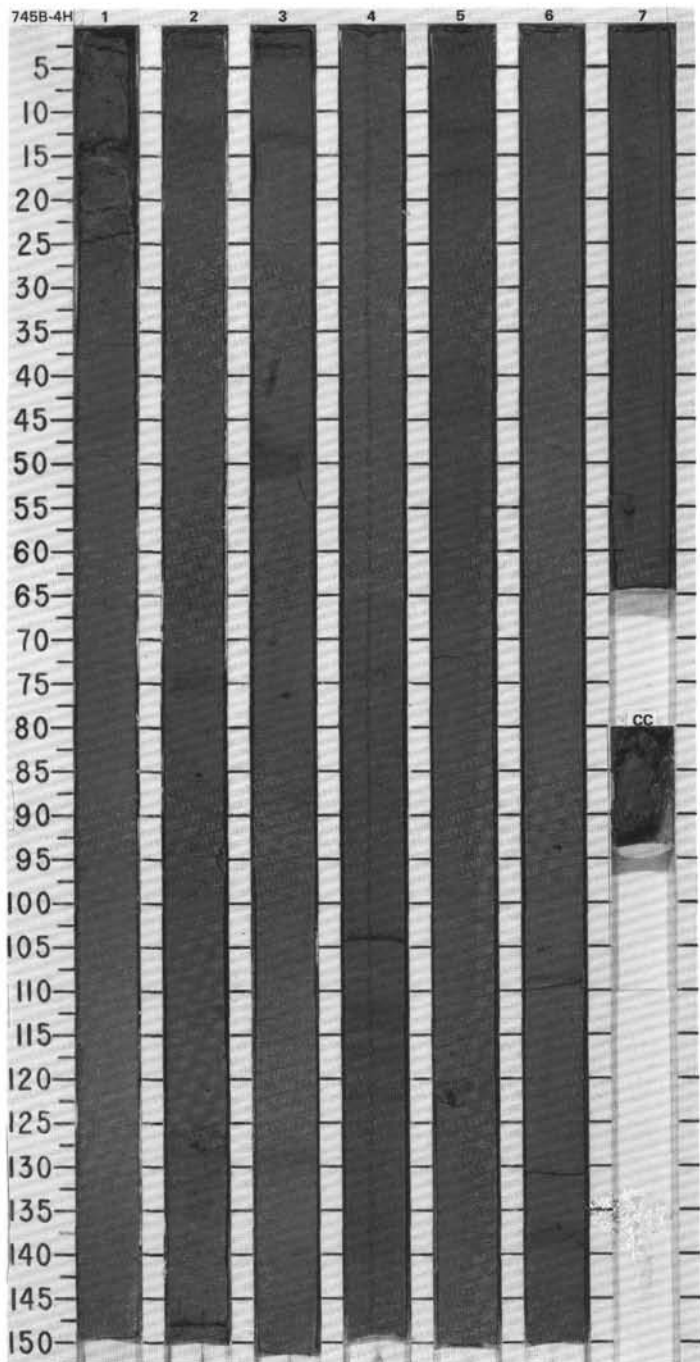
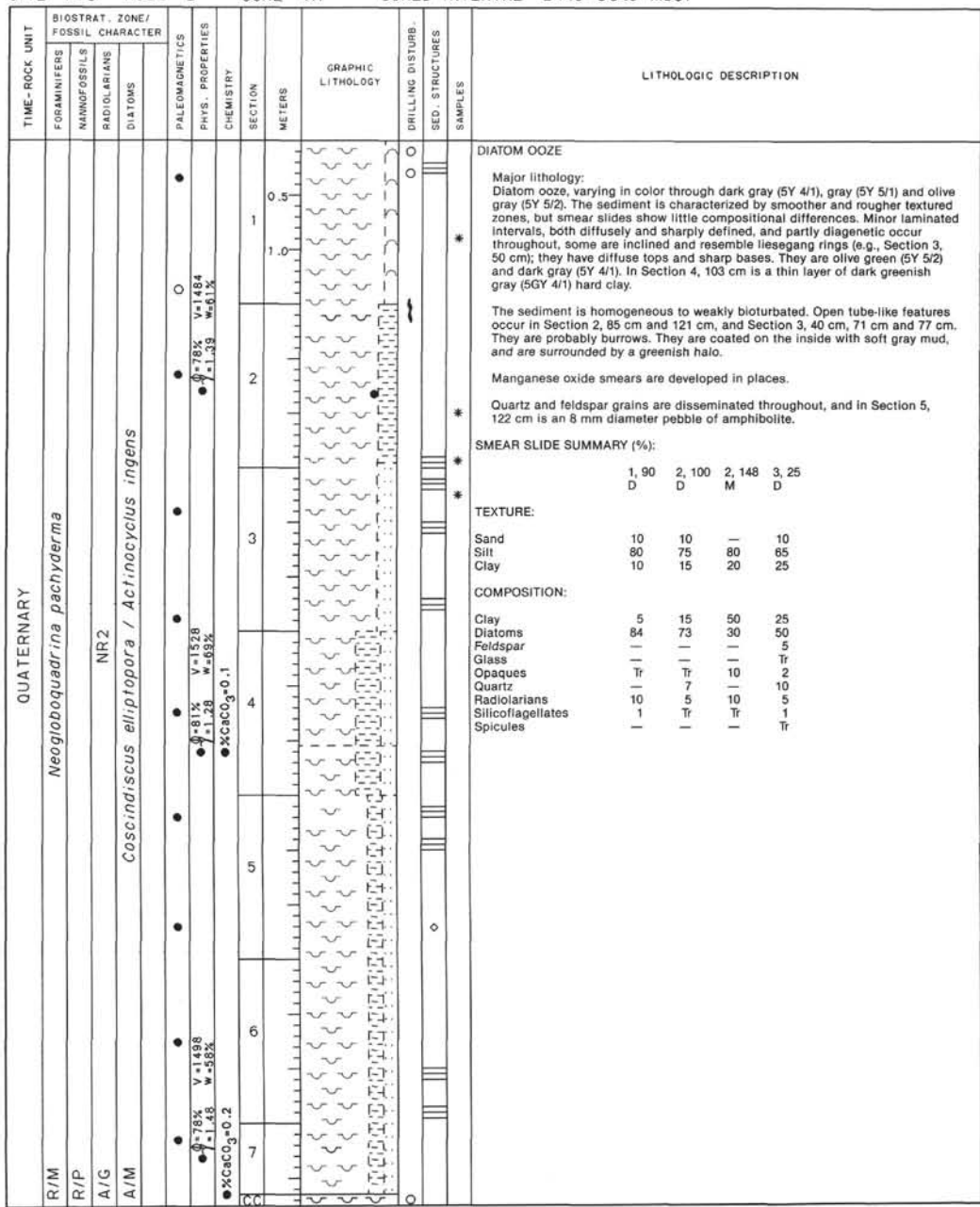
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																																														
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B								0.5				* G	<p>DIATOM OOZE</p> <p>Major lithology: Diatom ooze, locally with minor radiolarians or clay. Colors range transitionally through light olive gray (5Y 6/2), pale olive (5Y 6/3), gray (5Y 5/1), dark gray (5Y 4/1), olive gray (5Y 4/2, 5Y 5/2) and olive (5Y 5/3). There is weak bioturbation in places and some mottling. Sharply and weakly defined greenish ("unnamed" 10Y 4/2) and dark gray (5Y 4/1) layers a few mm to cm thick occur in Sections 3-7. A pale olive (5Y 6/3) diagenetic band occurs in Section 5, 64 cm.</p> <p>Minor lithology: Radiolarian diatom ooze with minor clay, gray (5Y 5/1), homogeneous, Section 1, 0-40 cm.</p> <p>Minor silt grains of quartz and feldspar occur throughout.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <thead> <tr> <th></th> <th>1, 20 D</th> <th>1, 80 D</th> <th>2, 80 D</th> <th>7, 10 D</th> <th>7, 50 M</th> </tr> </thead> <tbody> <tr> <td>Sand</td> <td>10</td> <td>50</td> <td>30</td> <td>10</td> <td>—</td> </tr> <tr> <td>Silt</td> <td>75</td> <td>45</td> <td>60</td> <td>75</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>15</td> <td>5</td> <td>10</td> <td>15</td> <td>—</td> </tr> </tbody> </table> <p>TEXTURE:</p> <table border="1"> <thead> <tr> <th></th> <th>1, 20 D</th> <th>1, 80 D</th> <th>2, 80 D</th> <th>7, 10 D</th> <th>7, 50 M</th> </tr> </thead> <tbody> <tr> <td>Sand</td> <td>10</td> <td>50</td> <td>30</td> <td>10</td> <td>—</td> </tr> <tr> <td>Silt</td> <td>75</td> <td>45</td> <td>60</td> <td>75</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>15</td> <td>5</td> <td>10</td> <td>15</td> <td>—</td> </tr> </tbody> </table> <p>COMPOSITION:</p> <table border="1"> <thead> <tr> <th></th> <th>1, 20 D</th> <th>1, 80 D</th> <th>2, 80 D</th> <th>7, 10 D</th> <th>7, 50 M</th> </tr> </thead> <tbody> <tr> <td>Access. Minerals</td> <td>Tr</td> <td>—</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Amphibole</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>15</td> <td>5</td> <td>3</td> <td>15</td> <td>10</td> </tr> <tr> <td>Diatoms</td> <td>50</td> <td>80</td> <td>80</td> <td>70</td> <td>70</td> </tr> <tr> <td>Feldspar</td> <td>3</td> <td>Tr</td> <td>Tr</td> <td>4</td> <td>2</td> </tr> <tr> <td>Foraminifers</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Glass</td> <td>Tr</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Opauques</td> <td>1</td> <td>Tr</td> <td>1</td> <td>1</td> <td>5</td> </tr> <tr> <td>Quartz</td> <td>5</td> <td>5</td> <td>3</td> <td>5</td> <td>5</td> </tr> <tr> <td>Radiolarians</td> <td>25</td> <td>7</td> <td>10</td> <td>5</td> <td>5</td> </tr> <tr> <td>Silicoflagellates</td> <td>Tr</td> <td>1</td> <td>2</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Spicules</td> <td>—</td> <td>Tr</td> <td>Tr</td> <td>—</td> <td>Tr</td> </tr> </tbody> </table>		1, 20 D	1, 80 D	2, 80 D	7, 10 D	7, 50 M	Sand	10	50	30	10	—	Silt	75	45	60	75	—	Clay	15	5	10	15	—		1, 20 D	1, 80 D	2, 80 D	7, 10 D	7, 50 M	Sand	10	50	30	10	—	Silt	75	45	60	75	—	Clay	15	5	10	15	—		1, 20 D	1, 80 D	2, 80 D	7, 10 D	7, 50 M	Access. Minerals	Tr	—	Tr	Tr	Tr	Amphibole	Tr	Tr	Tr	Tr	Tr	Clay	15	5	3	15	10	Diatoms	50	80	80	70	70	Feldspar	3	Tr	Tr	4	2	Foraminifers	—	—	Tr	—	—	Glass	Tr	Tr	—	—	—	Opauques	1	Tr	1	1	5	Quartz	5	5	3	5	5	Radiolarians	25	7	10	5	5	Silicoflagellates	Tr	1	2	—	Tr	Spicules	—	Tr	Tr	—	Tr
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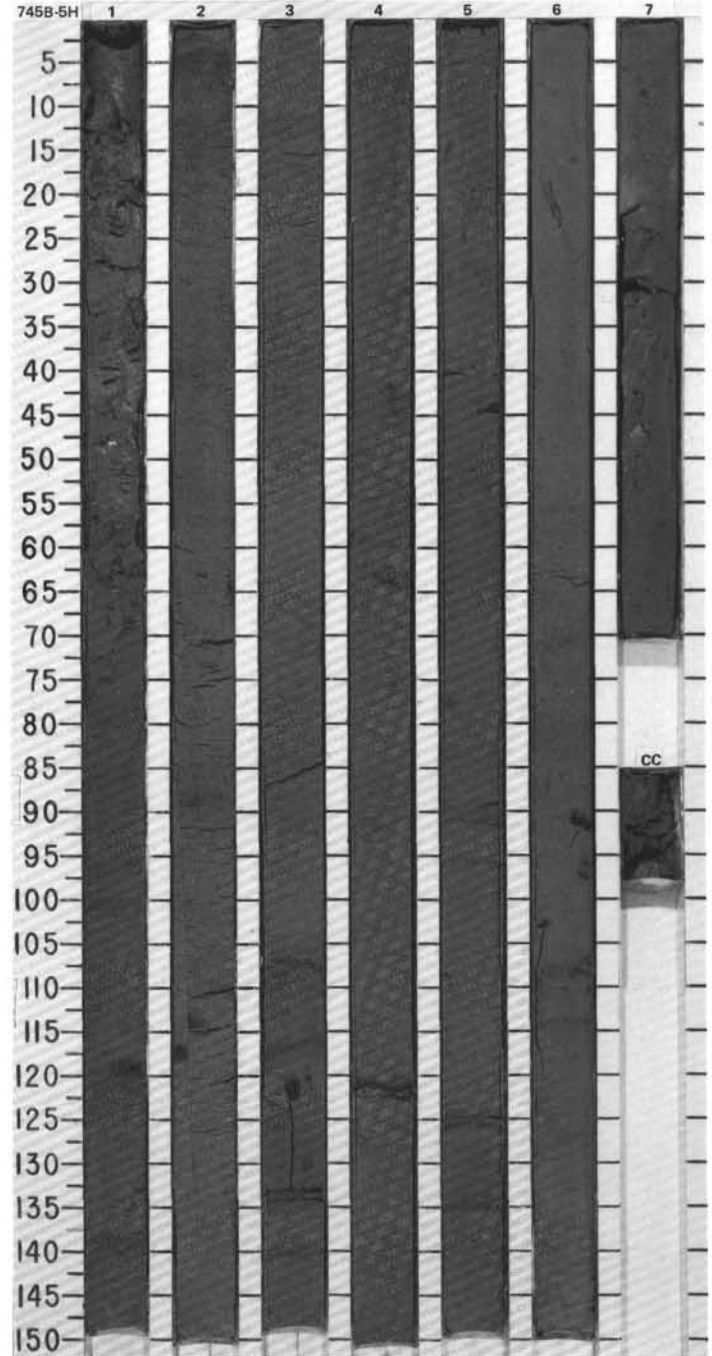
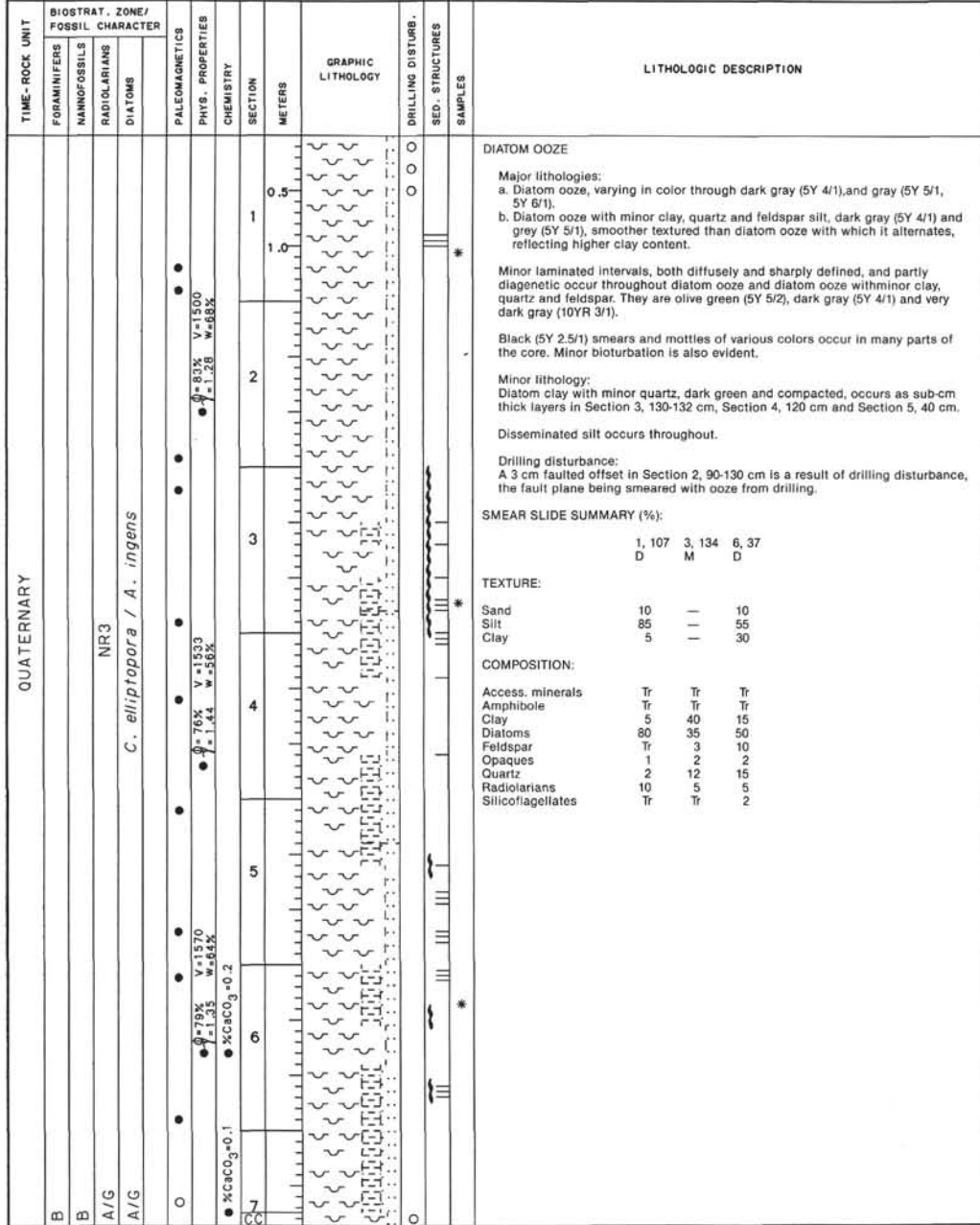
SITE 745 HOLE B CORE 3H CORED INTERVAL 14.5-24.0 mbsf

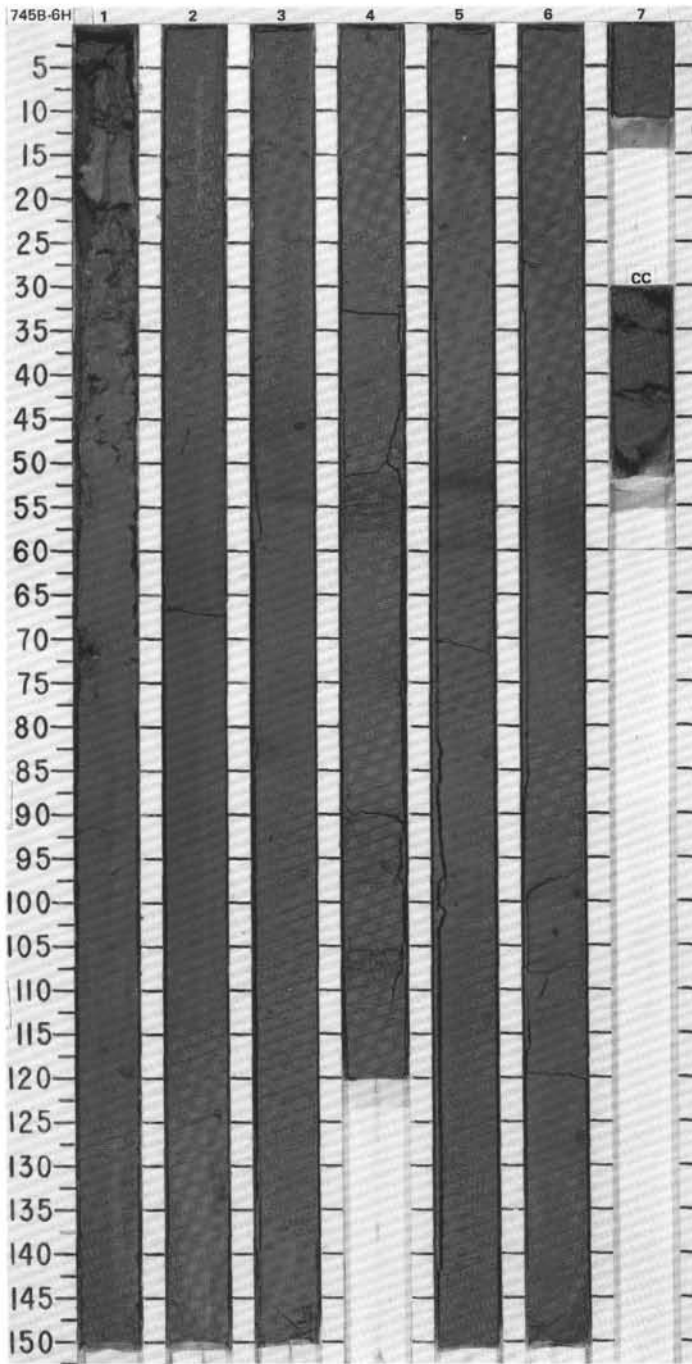
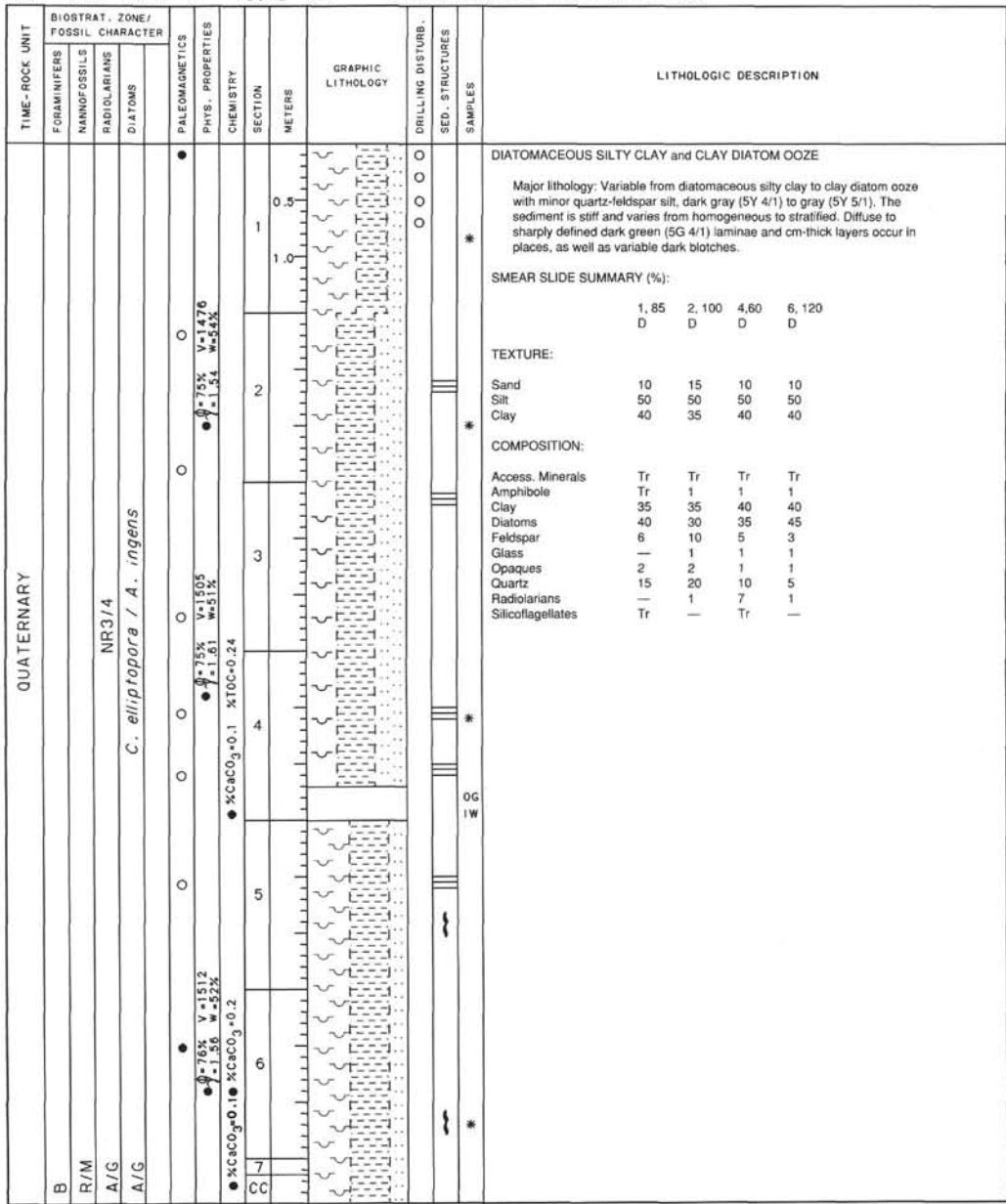
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
QUATERNARY														
B														
R/P				NR1		V=1511 W=70%			0.5					
A/G									1.0					
A/G				NR2		V=1518 W=74%			2.0					
				<i>Thalassiosira lentiginosa</i>		V=86% W=74%			3.0					
						V=1537 W=69%			4.0					
						%CaCO ₃ =0.1	%CaCO ₃ =0.1		5.0					
									6.0					
									7.0					



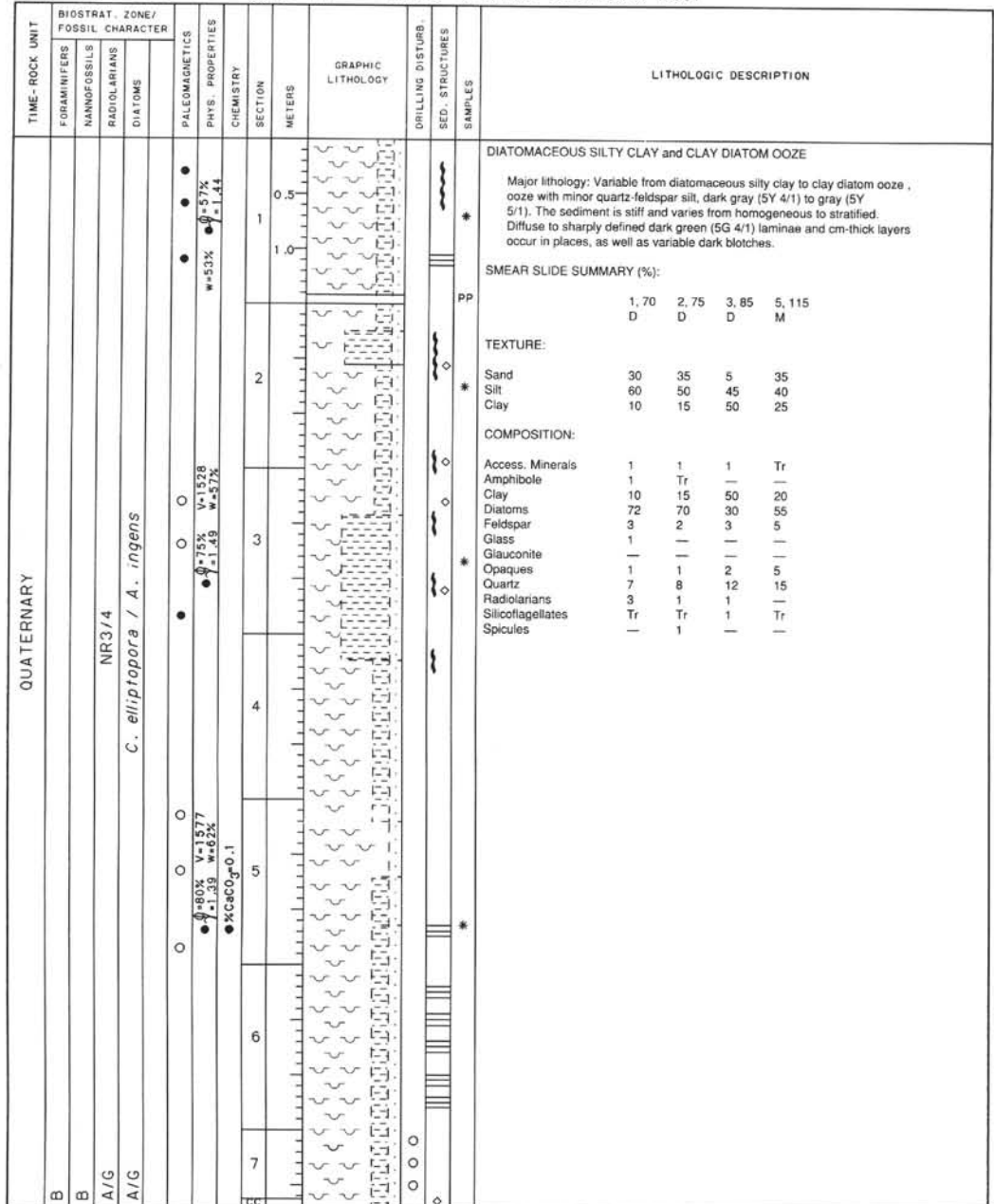


SITE 745 HOLE B CORE 5H CORED INTERVAL 33.5-43.0 mbsf

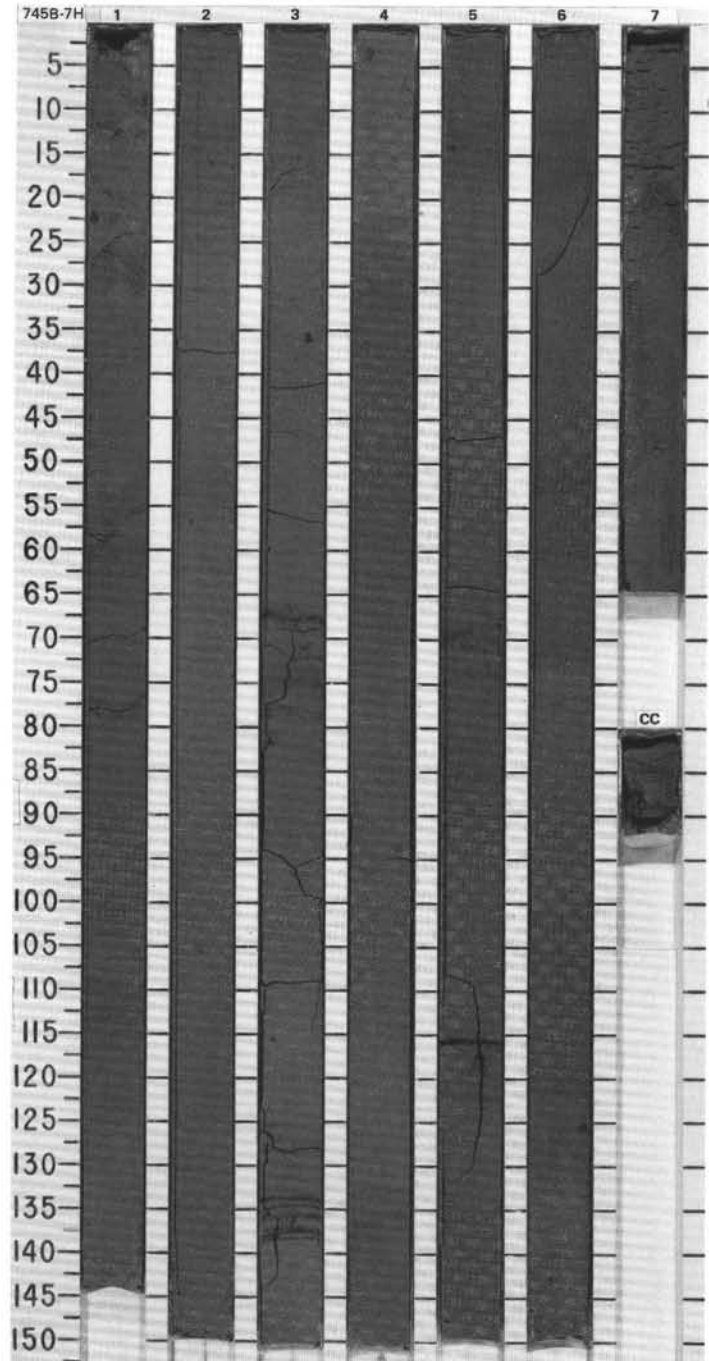




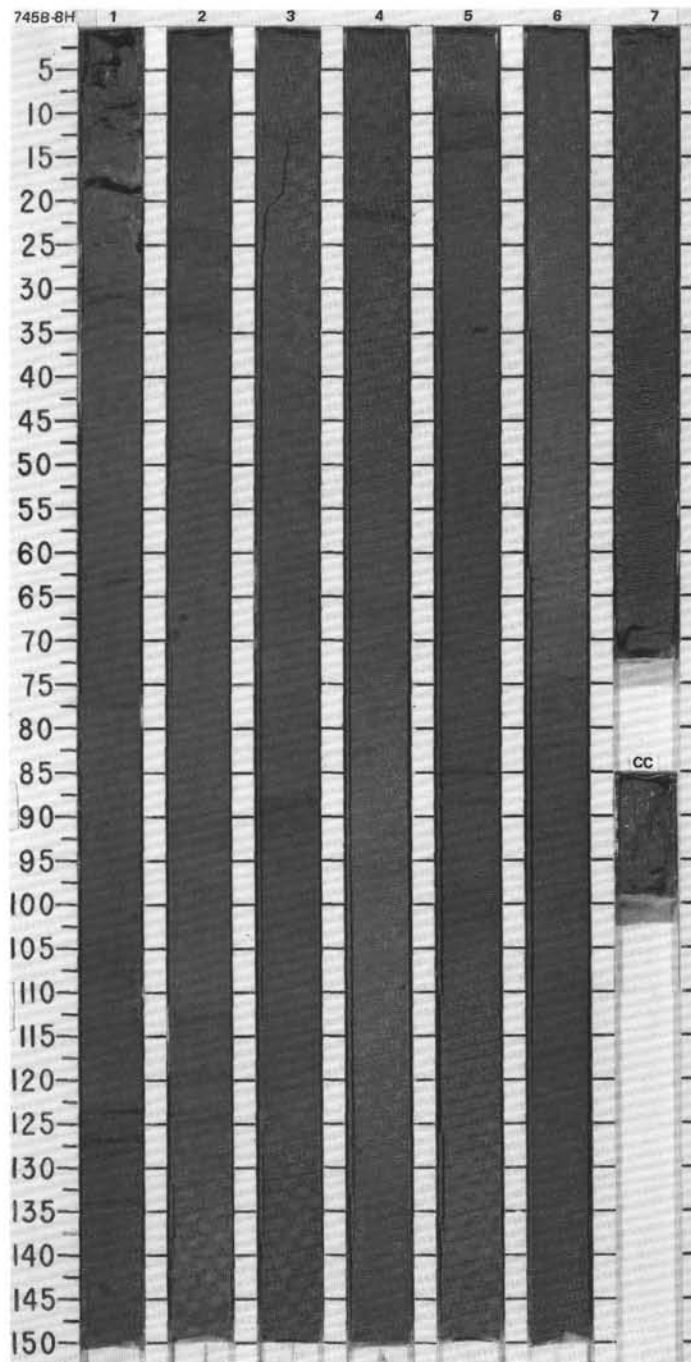
SITE 745 HOLE B CORE 7H CORED INTERVAL 52.5-62.0 mbsf



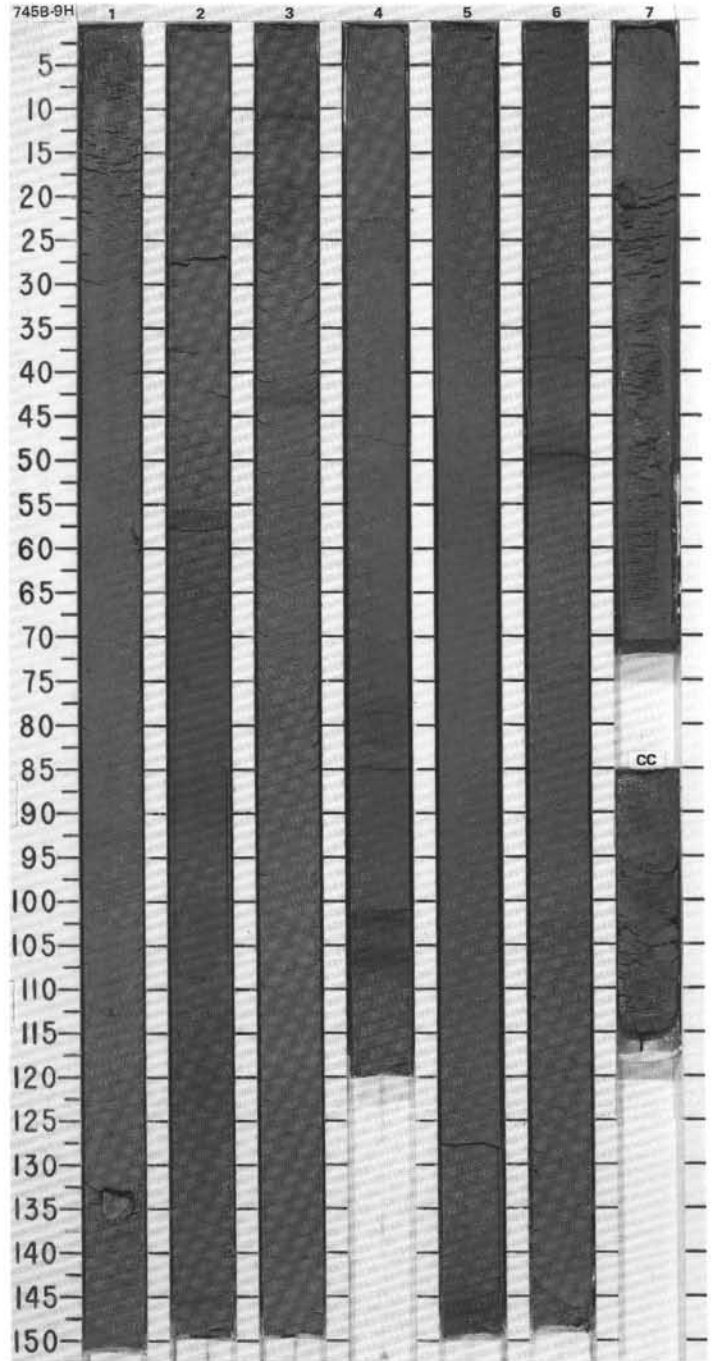
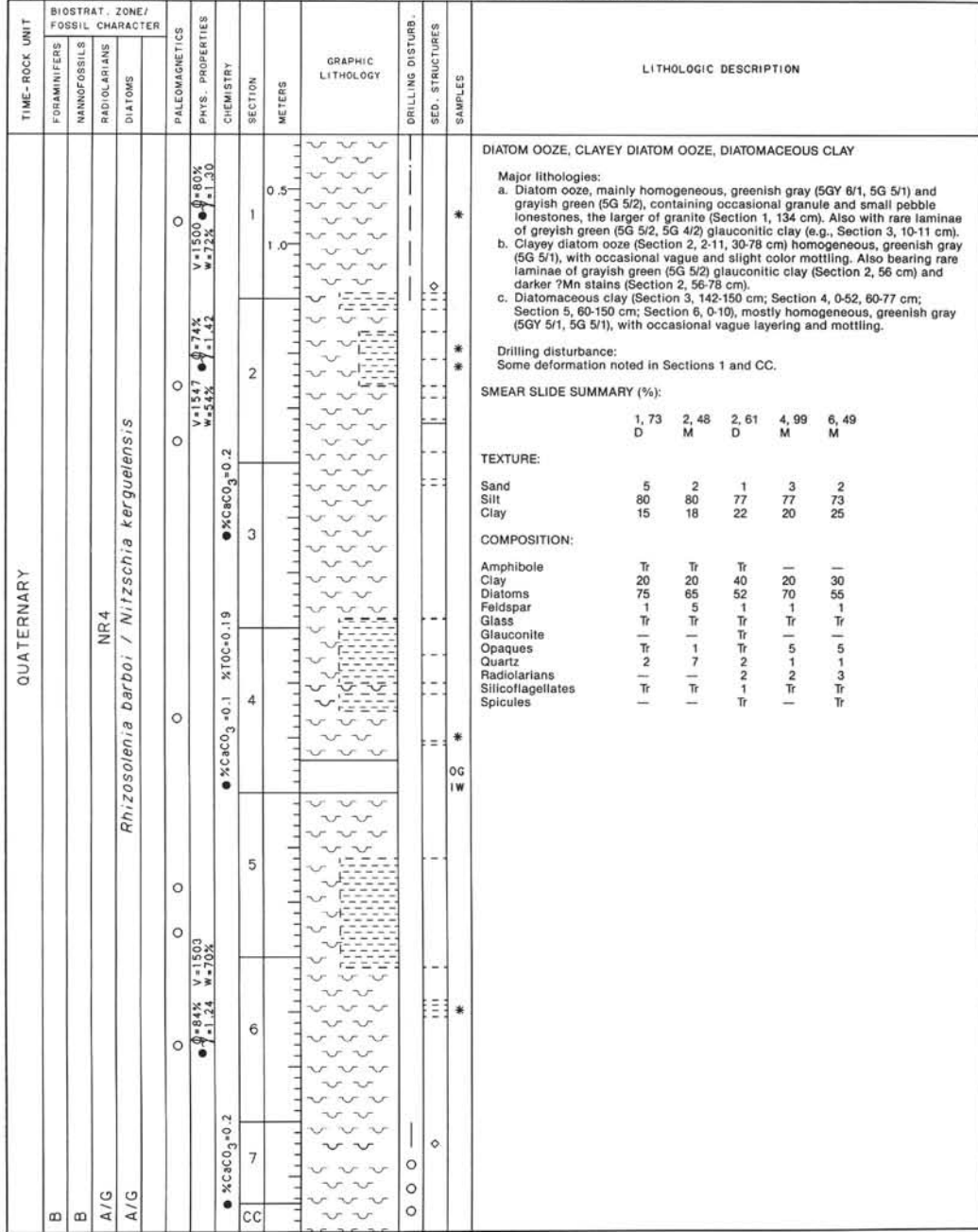
NR3/4
C. elliptopora / *A. ingens*



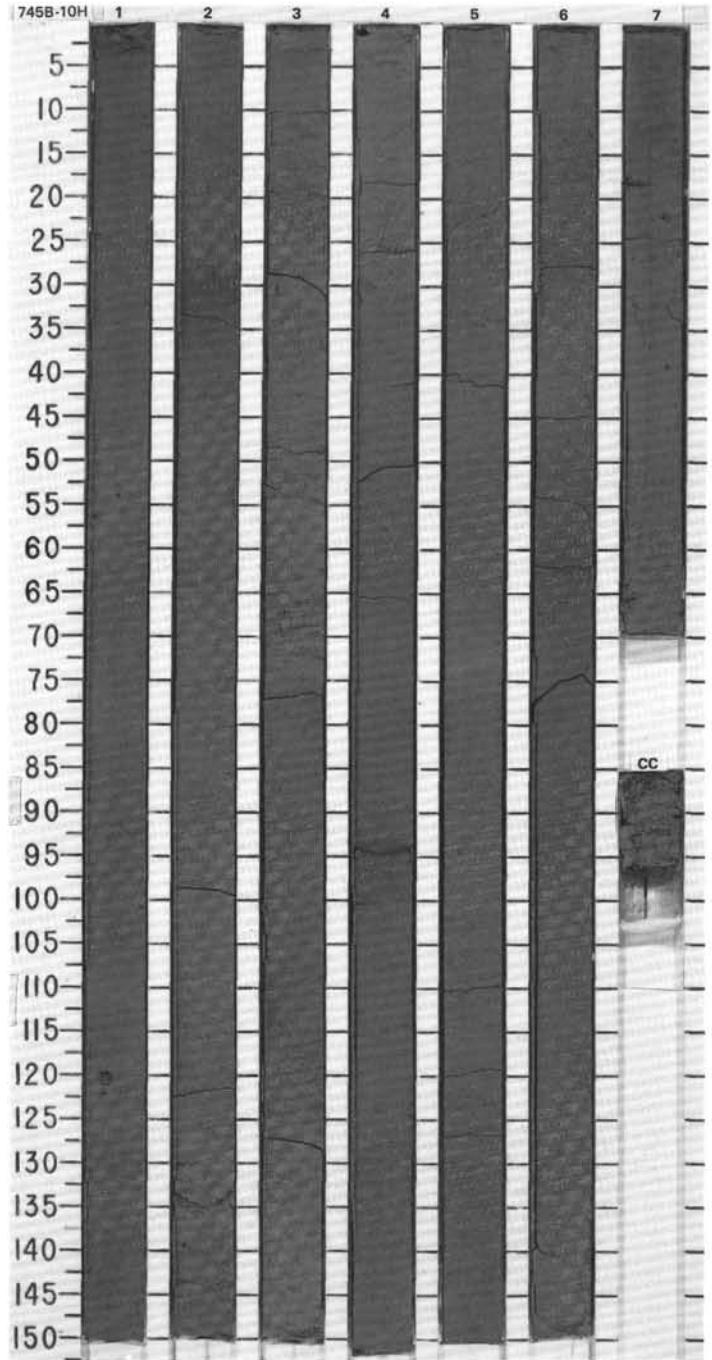
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																
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QUATERNARY	NR3/4 <i>C. elliptopora</i> / <i>A. ingens</i>				V=1512 W=63%	● 81% + 1.38			0.5					<p>DIATOM OOZE and SILTY DIATOMACEOUS OOZE</p> <p>Major lithologies:</p> <p>a. Diatom ooze with minor quartz-feldspar silt and clay; in Section 6 with minor accessory mineral which may be glauconite. The color varies from greenish gray (5GY 5/1), dark gray (5Y 4/1), very dark gray (5Y 3/1), gray (N5) to light gray (5Y 7/1).</p> <p>b. Silty diatomaceous ooze with minor clay, greenish gray (5GY 5/1) to dark greenish gray (5G 4/1).</p> <p>Both lithologies are weakly bioturbated in places, with burrows, including one filled with pyrite in Section 5, 33 cm. Color lamination and bedding are developed in places, with thin horizons of dark green (5G 4/2) clay-rich sediment, and also dark reddish gray (10R 4/1) laminae. Laminae often have a sharp base and a gradational top.</p> <p>Dispersed granules of quartz and feldspar are disseminated throughout the core. A 6 mm diameter pebble occurs in Section 2, 68 mm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 65</td> <td>3, 69</td> <td>3, 69</td> <td>6, 61</td> <td>6, 61</td> </tr> <tr> <td>D</td> <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>Sand</td> <td>25</td> <td>3</td> <td>30</td> <td>3</td> <td>15</td> </tr> <tr> <td>Silt</td> <td>50</td> <td>60</td> <td>55</td> <td>75</td> <td>70</td> </tr> <tr> <td>Clay</td> <td>25</td> <td>37</td> <td>15</td> <td>22</td> <td>15</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. Minerals</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>10</td> </tr> <tr> <td>Amphibole</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>20</td> <td>30</td> <td>10</td> <td>25</td> <td>8</td> </tr> <tr> <td>Diatoms</td> <td>45</td> <td>65</td> <td>70</td> <td>70</td> <td>65</td> </tr> <tr> <td>Feldspar</td> <td>10</td> <td>1</td> <td>2</td> <td>Tr</td> <td>6</td> </tr> <tr> <td>Glass</td> <td>-</td> <td>-</td> <td>1</td> <td>-</td> <td>Tr</td> </tr> <tr> <td>Glauconite</td> <td>1</td> <td>Tr</td> <td>1</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Opauques</td> <td>2</td> <td>-</td> <td>1</td> <td>-</td> <td>1</td> </tr> <tr> <td>Quartz</td> <td>20</td> <td>1</td> <td>8</td> <td>1</td> <td>6</td> </tr> <tr> <td>Radiolarians</td> <td>-</td> <td>1</td> <td>5</td> <td>1</td> <td>-</td> </tr> <tr> <td>Silicoflagellates</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>2</td> <td>2</td> </tr> </table>		1, 65	3, 69	3, 69	6, 61	6, 61	D	D	D	D	D	D	Sand	25	3	30	3	15	Silt	50	60	55	75	70	Clay	25	37	15	22	15	Access. Minerals	-	-	-	-	10	Amphibole	Tr	Tr	Tr	Tr	Tr	Clay	20	30	10	25	8	Diatoms	45	65	70	70	65	Feldspar	10	1	2	Tr	6	Glass	-	-	1	-	Tr	Glauconite	1	Tr	1	Tr	Tr	Opauques	2	-	1	-	1	Quartz	20	1	8	1	6	Radiolarians	-	1	5	1	-	Silicoflagellates	Tr	Tr	Tr	2	2
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Amphibole	Tr	Tr	Tr	Tr	Tr																																																																																																									
Clay	20	30	10	25	8																																																																																																									
Diatoms	45	65	70	70	65																																																																																																									
Feldspar	10	1	2	Tr	6																																																																																																									
Glass	-	-	1	-	Tr																																																																																																									
Glauconite	1	Tr	1	Tr	Tr																																																																																																									
Opauques	2	-	1	-	1																																																																																																									
Quartz	20	1	8	1	6																																																																																																									
Radiolarians	-	1	5	1	-																																																																																																									
Silicoflagellates	Tr	Tr	Tr	2	2																																																																																																									
B					V=1519 W=62%	● 81% + 1.37			1.0																																																																																																					
B					V=1524 W=71%	● 80% + 1.39	● %CaCO ₃ =0.1		2																																																																																																					
A/G								3																																																																																																						
A/G								4																																																																																																						
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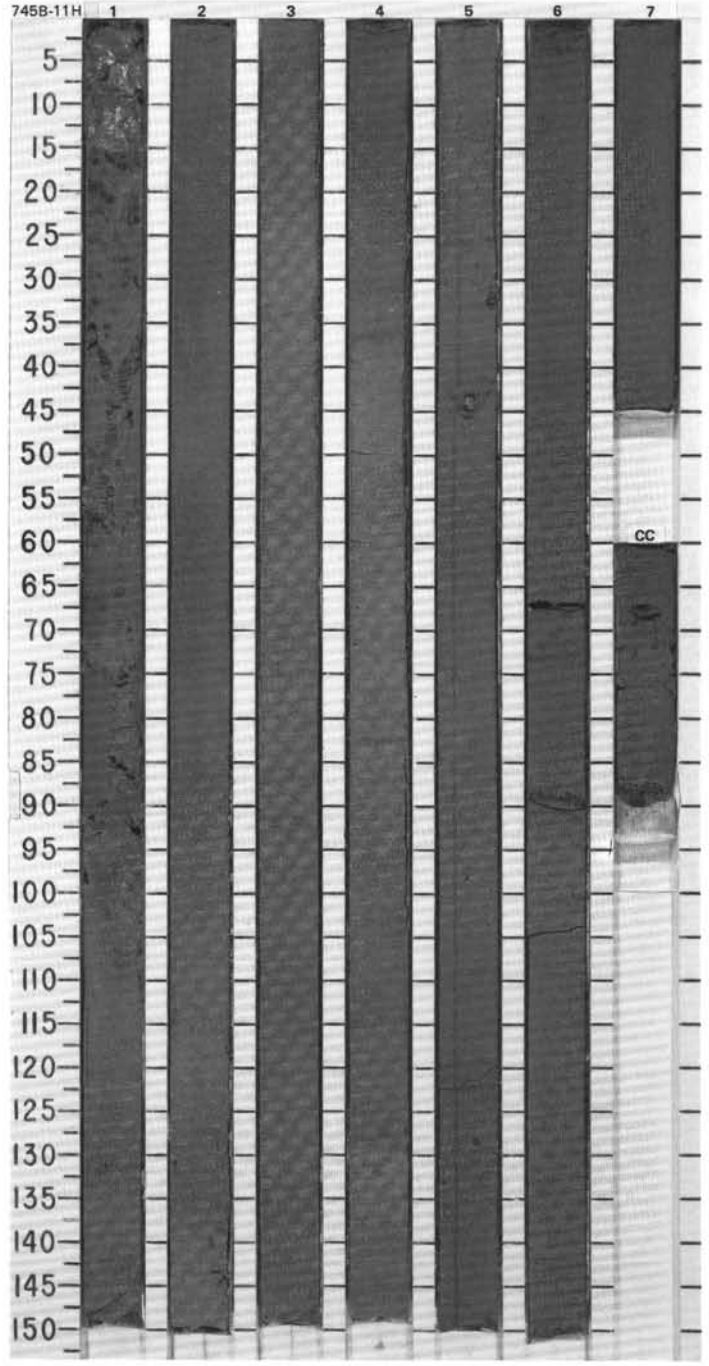
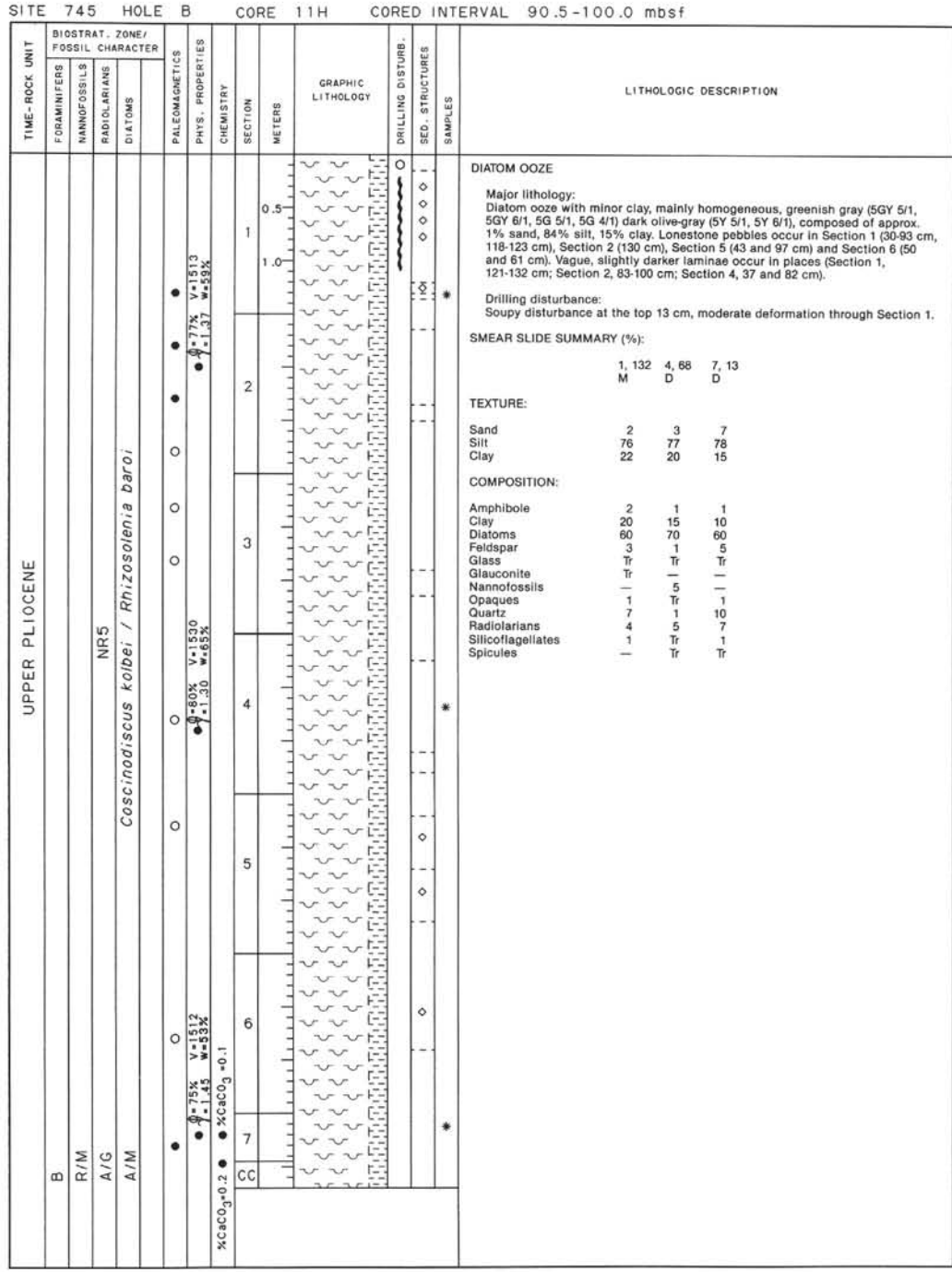


SITE 745 HOLE B CORE 9H CORED INTERVAL 71.5-81.0 mbsf

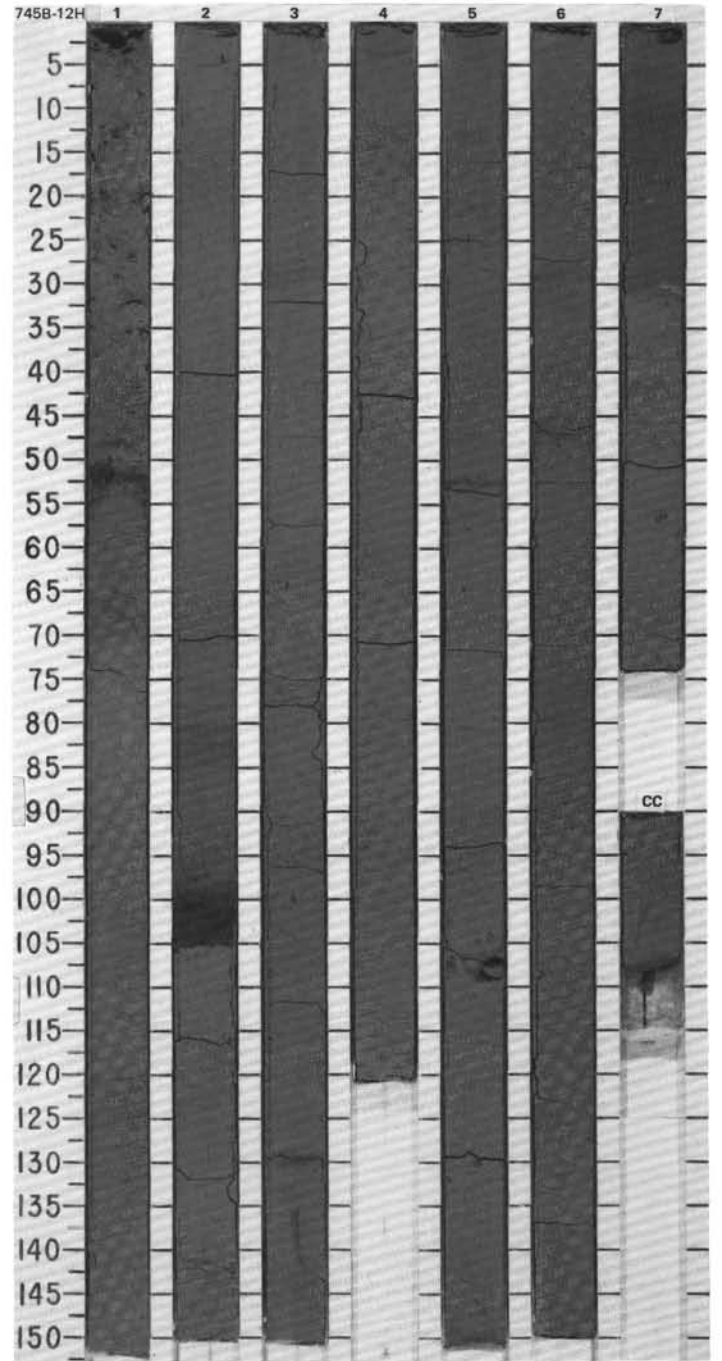


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																												
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																																						
QUATERNARY		NR4							0.5					<p>CLAYEY DIATOM OOZE, DIATOMACEOUS CLAY</p> <p>Major lithologies:</p> <p>a. Clayey diatom ooze, mainly homogeneous, gray-green (5GY 5/1, 5GY 6/1), with occasional laminae of greyish green (5G 5/2) glauconitic clay (Section 3, 102 cm; Section 4, 93, 100 cm) and limestones up to 1.5 cm size (Section 1, 51, 119 cm; Section 6, 120 cm).</p> <p>b. Diatomaceous clay (Section 2, 56-86, 128-137, 147-150 cm; Section 3, 0-97, 140-150 cm; Section 4, 16-78, 131-150 cm; Section 5, 0-56, 89-150 cm; Section 6, 0-10, 33-105, 140-150 cm; Section 7, 27-70 cm, Section CC), mainly homogeneous, greenish gray (5G 5/1), with occasional limestones up to 5 mm size (Section 3, 30 cm; Section 5, 94 cm; Section 7, 40 cm); also sometimes occurs as laminae within the clayey diatom ooze (Section 6, 10-26).</p> <p>Drilling disturbance: Small amount (2 cm) of soupy material at top of Section 1.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>2, 17</td> <td>3, 88</td> <td>5, 6</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>2</td> <td>1</td> <td>1</td> </tr> <tr> <td>Silt</td> <td>78</td> <td>60</td> <td>64</td> </tr> <tr> <td>Clay</td> <td>20</td> <td>39</td> <td>35</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Amphibole</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>20</td> <td>40</td> <td>60</td> </tr> <tr> <td>Diatoms</td> <td>65</td> <td>50</td> <td>35</td> </tr> <tr> <td>Feldspar</td> <td>2</td> <td>2</td> <td>1</td> </tr> <tr> <td>Glass</td> <td>Tr</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Opacues</td> <td>4</td> <td>3</td> <td>3</td> </tr> <tr> <td>Quartz</td> <td>4</td> <td>3</td> <td>3</td> </tr> <tr> <td>Radiolarians</td> <td>5</td> <td>3</td> <td>1</td> </tr> <tr> <td>Silicoflagellates</td> <td>Tr</td> <td>1</td> <td>—</td> </tr> <tr> <td>Spicules</td> <td>—</td> <td>Tr</td> <td>Tr</td> </tr> </table>		2, 17	3, 88	5, 6	D	D	D	D	Sand	2	1	1	Silt	78	60	64	Clay	20	39	35	Amphibole	Tr	Tr	Tr	Clay	20	40	60	Diatoms	65	50	35	Feldspar	2	2	1	Glass	Tr	—	Tr	Opacues	4	3	3	Quartz	4	3	3	Radiolarians	5	3	1	Silicoflagellates	Tr	1	—	Spicules	—	Tr	Tr
	2, 17	3, 88	5, 6																																																																							
D	D	D	D																																																																							
Sand	2	1	1																																																																							
Silt	78	60	64																																																																							
Clay	20	39	35																																																																							
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Diatoms	65	50	35																																																																							
Feldspar	2	2	1																																																																							
Glass	Tr	—	Tr																																																																							
Opacues	4	3	3																																																																							
Quartz	4	3	3																																																																							
Radiolarians	5	3	1																																																																							
Silicoflagellates	Tr	1	—																																																																							
Spicules	—	Tr	Tr																																																																							
					V=151.6 W=63%			1.0																																																																		
					V=150.4 W=55%			2.0																																																																		
					V=150.4 W=55%			3.0																																																																		
					V=152.3 W=56%			4.0																																																																		
					V=150.7 W=52%			5.0																																																																		
					V=146.0 W=52%			6.0																																																																		
					V=146.0 W=52%			7.0																																																																		
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TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																			
	FORAMINIFERS	NANNOFOSSILS	RADIOLIARIANS	DIATOMS																																																																													
UPPER PLIOCENE	NR5								0.5 1.0				<p>CLAYEY DIATOM OOZE and DIATOMACEOUS CLAY</p> <p>Major lithologies:</p> <p>a. Clayey diatom ooze (Section 1, 2), mainly homogeneous, greenish gray (5G 6/1, 5GY 5/1, 5G 5/1) and grayish green (5G 5/2), with diffuse layering expressed in slight changes of color and clay/diatom content (e.g., Section 1, 48-72 cm). Some of these are concentrations of glauconite (Section 1, 119-130 cm). Grain size textures are approximately 1% sand, 68% silt, 31% clay.</p> <p>b. Diatomaceous clay (Sections 3-7, CC), stiff, mainly homogeneous, greenish gray (5G 5/1); contains granules (Section 3, 6, 43-47 cm, 98 cm; Section 5, 88-104 cm) and small limestones (Section 5, 63 cm; Section 6, 40 cm).</p> <p>Minor lithologies:</p> <p>a. Vitric ash-tuff (Section 2, 99-105 cm), extremely well-sorted, grayish brown ("unnamed" 2.5Y 4/1), with sharp top and base, friable.</p> <p>b. Silt (Section 7, 29-31 cm), gray (5Y 5/1), with sharp base.</p>																																																																				
					V=15.2 W=5.2 I=1.33			2						<p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 51</td> <td>2, 102</td> <td>7, 30</td> </tr> <tr> <td></td> <td>M</td> <td>M</td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>—</td> <td>50</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>30</td> <td>50</td> <td>90</td> </tr> <tr> <td>Clay</td> <td>70</td> <td>—</td> <td>5</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Amphibole</td> <td>—</td> <td>—</td> <td>10</td> </tr> <tr> <td>Clay</td> <td>90</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Diatoms</td> <td>5</td> <td>—</td> <td>3</td> </tr> <tr> <td>Feldspar</td> <td>1</td> <td>—</td> <td>2</td> </tr> <tr> <td>Glass</td> <td>—</td> <td>85</td> <td>—</td> </tr> <tr> <td>Glauconite</td> <td>Tr</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Opacites</td> <td>2</td> <td>1</td> <td>2</td> </tr> <tr> <td>Palagonite</td> <td>—</td> <td>—</td> <td>2</td> </tr> <tr> <td>Pyroxene</td> <td>—</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>1</td> <td>10</td> <td>80</td> </tr> <tr> <td>Radiolarians</td> <td>—</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Spicules</td> <td>1</td> <td>—</td> <td>Tr</td> </tr> </table>		1, 51	2, 102	7, 30		M	M	M	Sand	—	50	5	Silt	30	50	90	Clay	70	—	5	Amphibole	—	—	10	Clay	90	—	Tr	Diatoms	5	—	3	Feldspar	1	—	2	Glass	—	85	—	Glauconite	Tr	—	Tr	Opacites	2	1	2	Palagonite	—	—	2	Pyroxene	—	Tr	—	Quartz	1	10	80	Radiolarians	—	Tr	—	Spicules	1	—
	1, 51	2, 102	7, 30																																																																														
	M	M	M																																																																														
Sand	—	50	5																																																																														
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Clay	90	—	Tr																																																																														
Diatoms	5	—	3																																																																														
Feldspar	1	—	2																																																																														
Glass	—	85	—																																																																														
Glauconite	Tr	—	Tr																																																																														
Opacites	2	1	2																																																																														
Palagonite	—	—	2																																																																														
Pyroxene	—	Tr	—																																																																														
Quartz	1	10	80																																																																														
Radiolarians	—	Tr	—																																																																														
Spicules	1	—	Tr																																																																														
					V=70% W=1.58 I=1.58			3																																																																									
					V=15.09 W=5.3% I=1.30			4																																																																									
					V=7.5% W=1.80 I=1.80			5																																																																									
								6																																																																									
								7																																																																									
								CC																																																																									



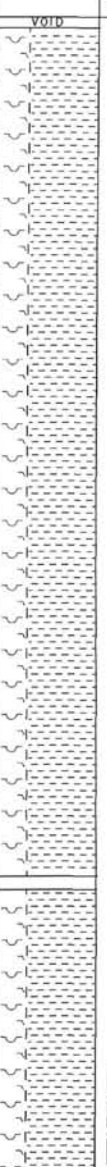
SITE 745 HOLE B CORE 13H CORED INTERVAL 109.5-119.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS									
LOWER PLIOCENE									VOID			
B								0.5				
B								1			*	
A/G								1.0				
C/M								2				
								3				
								4			*	
								5			◇ *	
								6			PP	
								7				
								CC				

LOWER PLIOCENE

NRS
Nitzschia interfrigidaria

• $\phi=57\%$
 $V=1559$ $W=48\%$
 $\phi=71\%$ $w=50\%$
 $V=1532$ $W=50\%$
 $\phi=70\%$ $w=50\%$
 \bullet $\%CaCO_3=0.2$
 \bullet $\%CaCO_3=0.1$



DIATOMACEOUS CLAY

Major lithology:
Diatomaceous clay with minor silt, mainly homogeneous, gray green (5G 6/1, 5BG 5/1, 5GY 5/1) to gray (5Y 5/1), with occasional vague layers 1-20 cm thick layers of varying color. Other layers show sharp upper and/or lower boundaries. Black-green (5BG 4/1, 5B 4/1) intervals of Mn-micronodule enrichment also occur in layers 3-10 cm thick (Section 1, 80-83 cm; Section 2, 55-65 cm); other occurrences as mottles (Section 3, 139-150 cm; Section 4, 60-70 cm; Sections 5, 6). Glauconitic layers, <1 cm thick are present (Section 1, 22-26 cm; Section 2, 25 and 30 cm; Section 4, 65 cm). A single limestone of gray metamorphic lithology occurs at Section 5, 96 cm.

Minor lithology:
Silt (Section 119-745B-13H, 3, 133 cm) extremely well-sorted, composed of quartz, feldspar, broken sponge spicules and heavy minerals; in a bed 1 cm thick, which has sharp boundaries and internal laminae <0.5 mm thick. Colors are white and gray-black (N 4).

Drilling disturbance:
Suction occurs in Sections 7, CC. Deformed bedding at Section 1, 10-35 cm may be due to the coring.

SMEAR SLIDE SUMMARY (%):

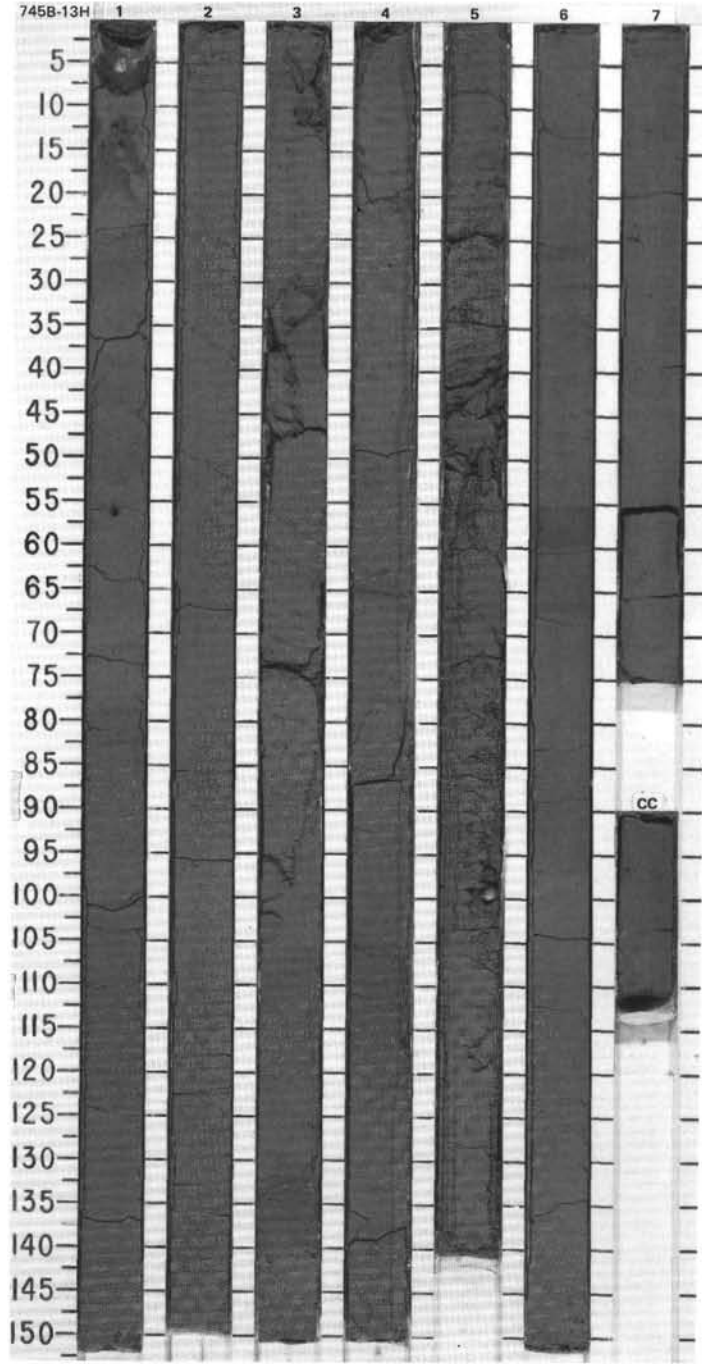
	1, 66	3, 132	5, 100
D		M	D

TEXTURE:

Sand	5	2	3
Silt	45	90	42
Clay	50	8	55

COMPOSITION:

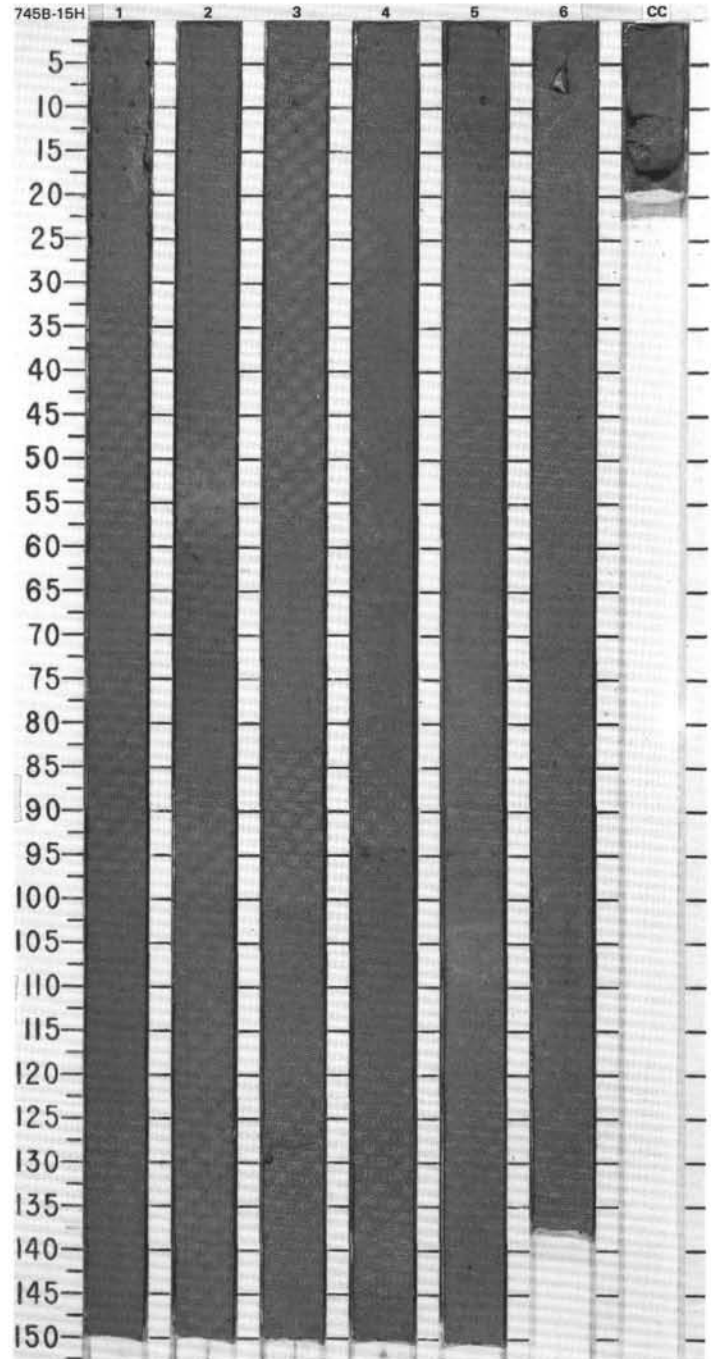
Amphibole	—	10	1
Clay	50	—	45
Diatoms	35	7	35
Feldspar	3	7	3
Opacues	1	3	1
Palagonite	—	2	—
Quartz	5	65	8
Radiolarians	2	—	3
Silicoflagellates	Tr	—	Tr
Spicules	1	1	—

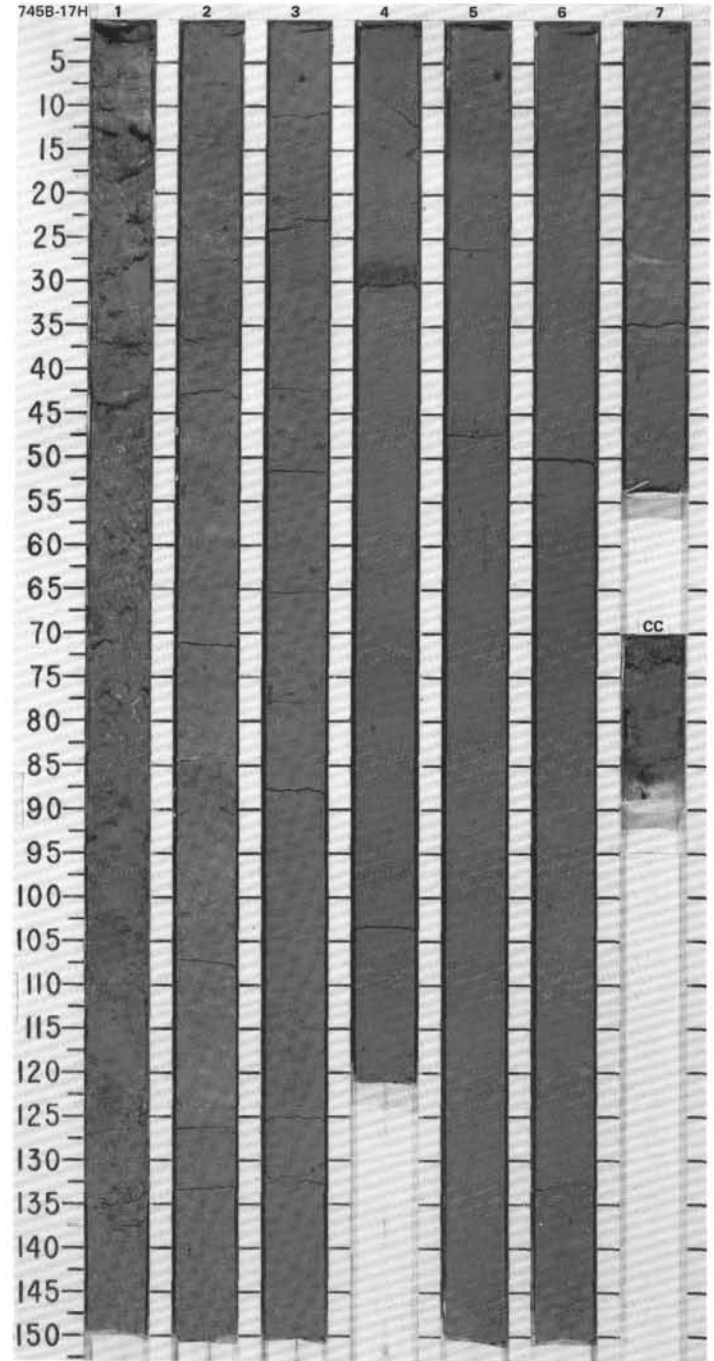
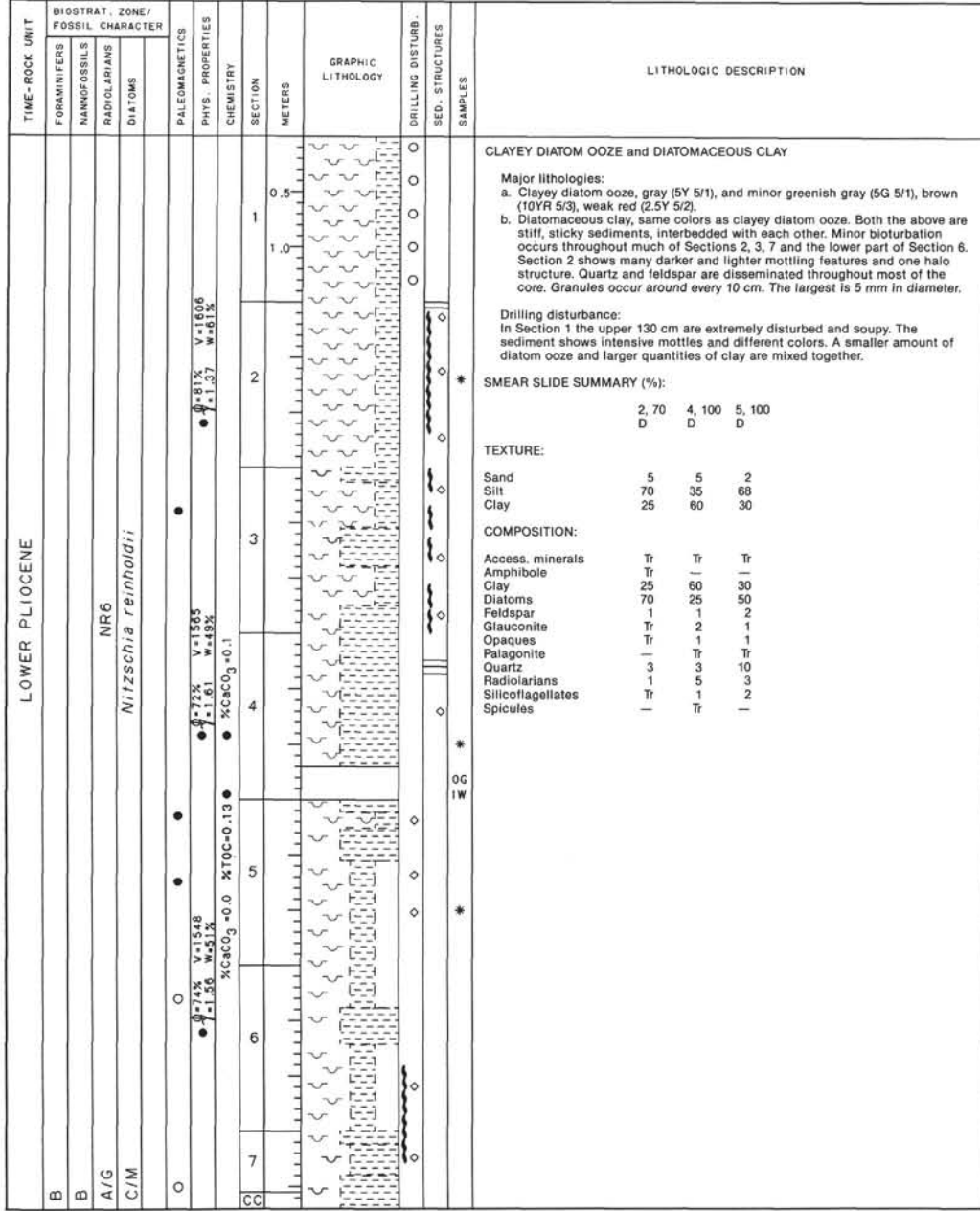


SITE 745 HOLE B CORE 15H CORED INTERVAL 128.5-138.0 mbsf

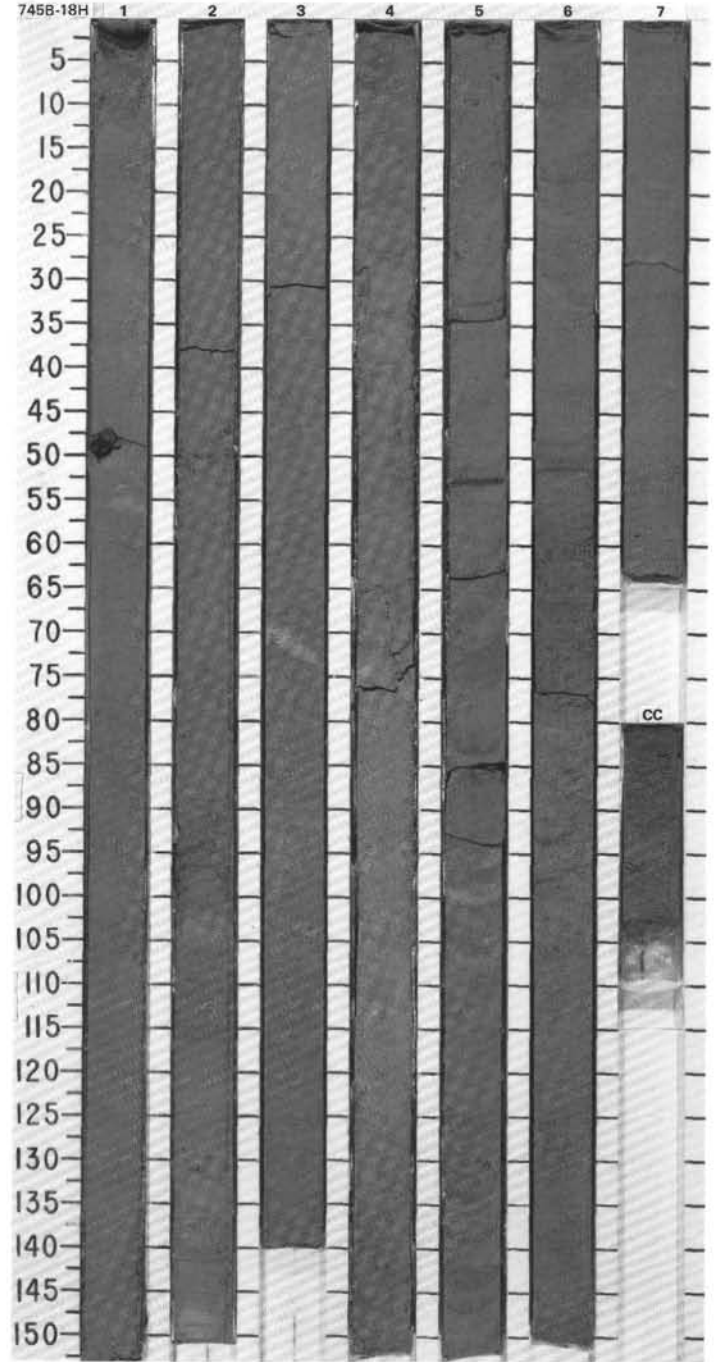
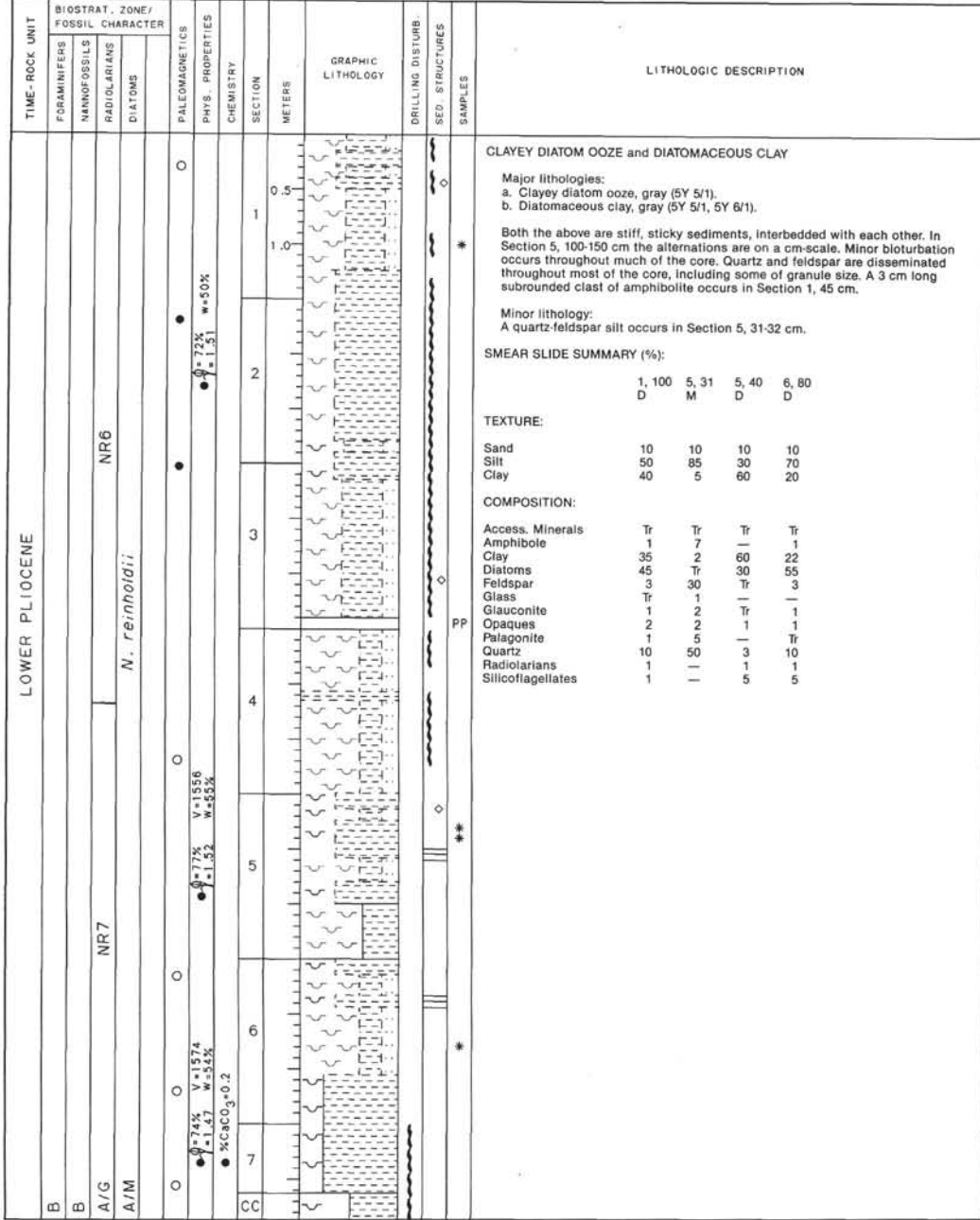
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	MANNOFOSSILS	RADIOLARIANS	DIATOMS										
LOWER PLIOCENE													
B	NR5							0.5	1				DIATOMACEOUS CLAY and CLAYEY DIATOM OOZE Major lithologies: a. Diatomaceous clay, mainly homogeneous, greenish gray (5G 5/1, 5GY 5/1) or olive gray (5Y 5/1), stiff, with vague mottles in places (Section 1, 103-113 cm; Section 3, 105-120 cm) and scattered granule lonestones. b. Clayey diatom ooze, mainly homogeneous, olive-gray (5Y 6/1, 5Y 6/2) or reddish gray (5GY 6/1), weak red (2.5YR 5/2), pale red (2.5YR 6/2), with occasional mottling (e.g., Section 2, 100 cm) and scattered granule lonestones. A minor variation occurs as a 1 cm thick pale green (5GY 7/1) layer in Section 5 (102-103 cm).
B	NR6							1.0	2		◊		
A/G	Nitzschia angulata				● 0.7% V=13.5 0.1% V=1.42 W=53%				3		◊		
A/M					● 0.72% V=13.6 0.1% V=1.43 W=53%				4		◊		
					● %CaCO ₃ =0.1				5		◊		
					● %CaCO ₃ =0.1				6		◊		
									CC				

745 A 16H NO RECOVERY

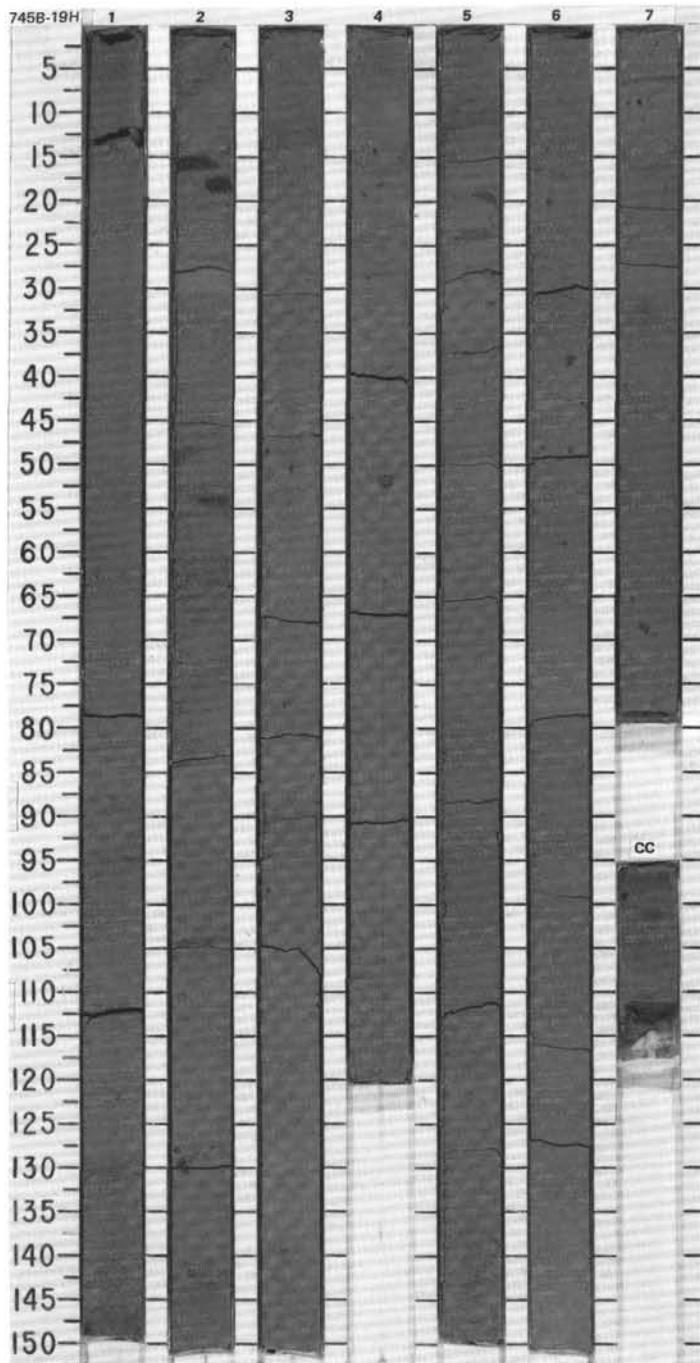




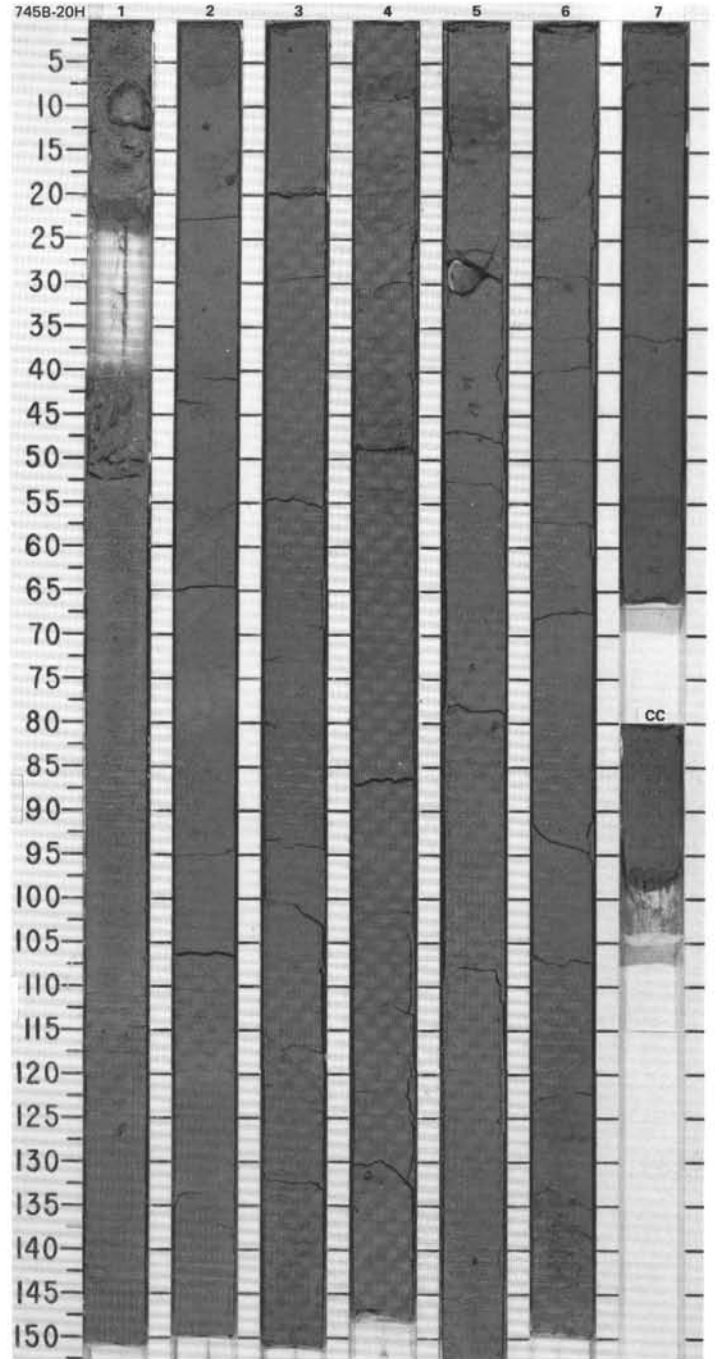
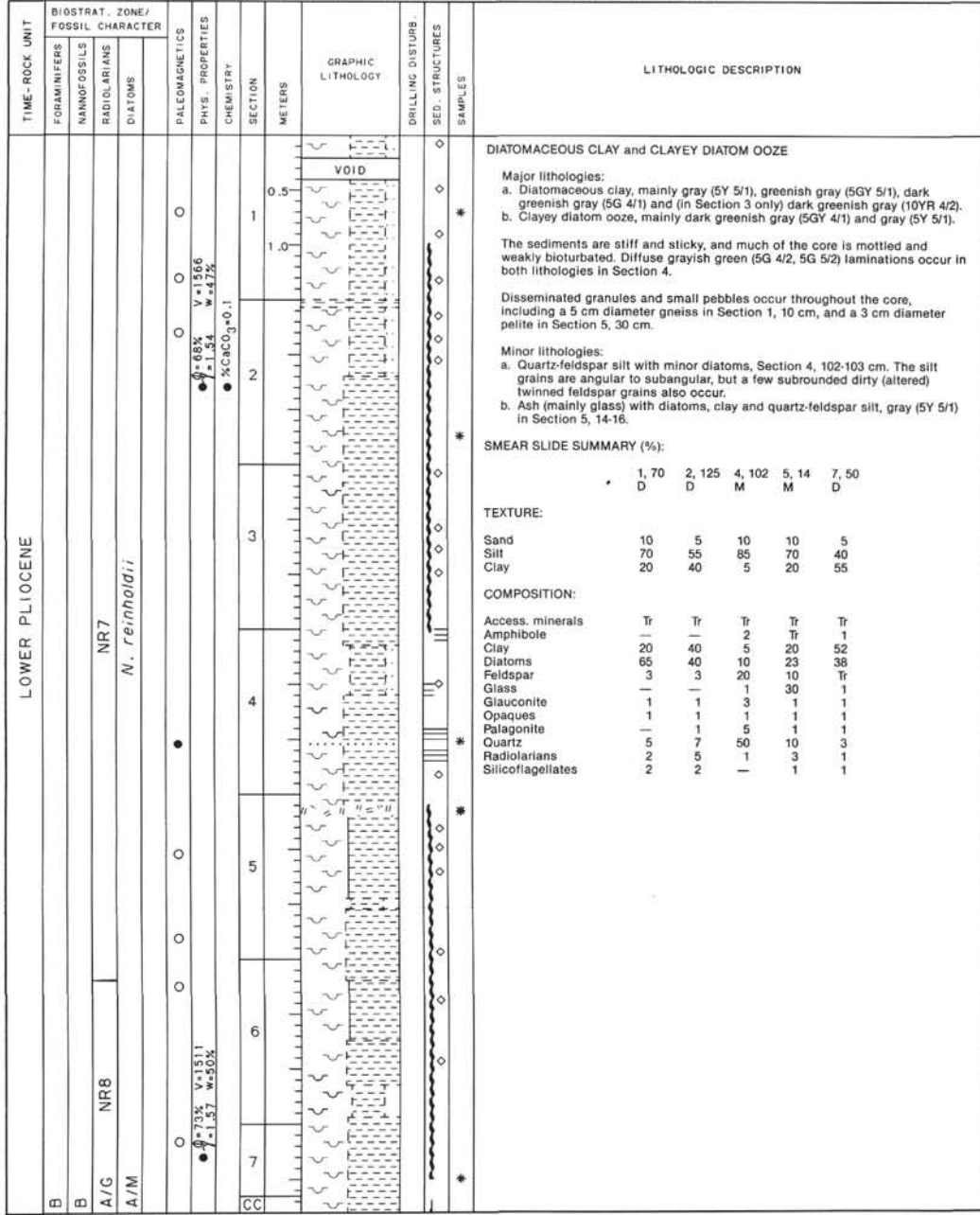
SITE 745 HOLE B CORE 18H CORED INTERVAL 148.5-158.0 mbsf

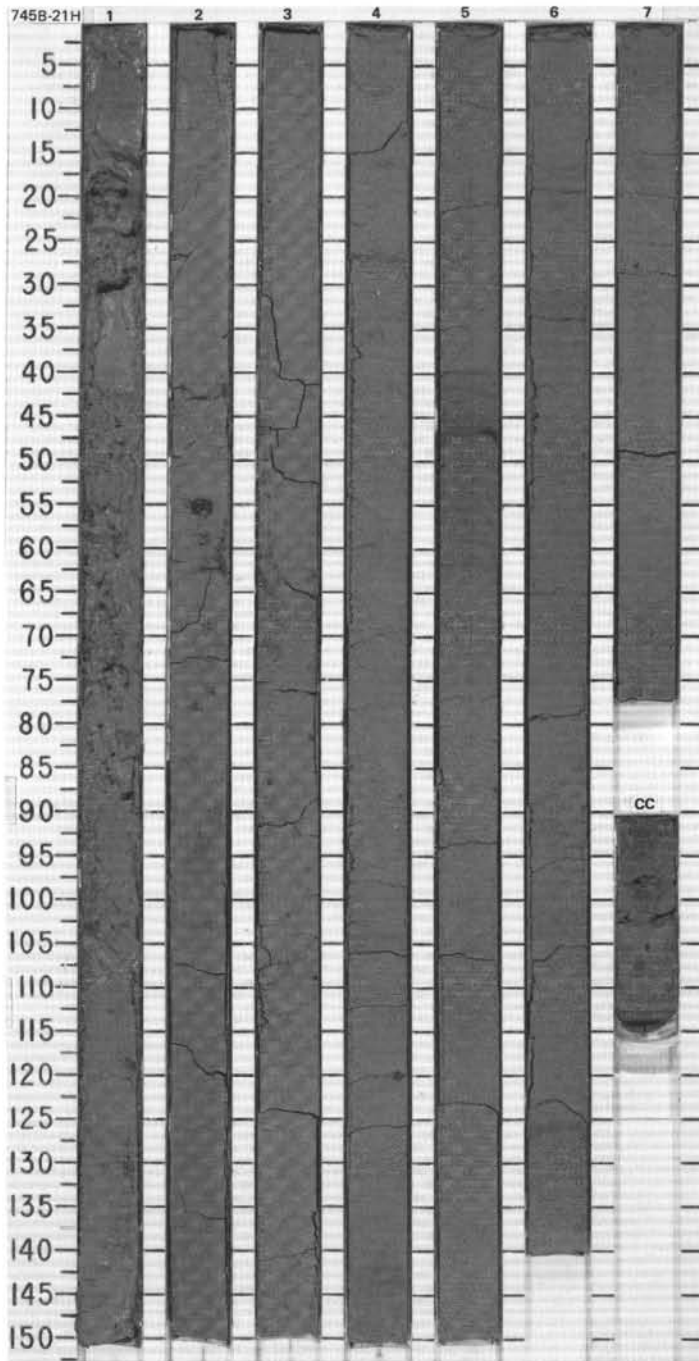
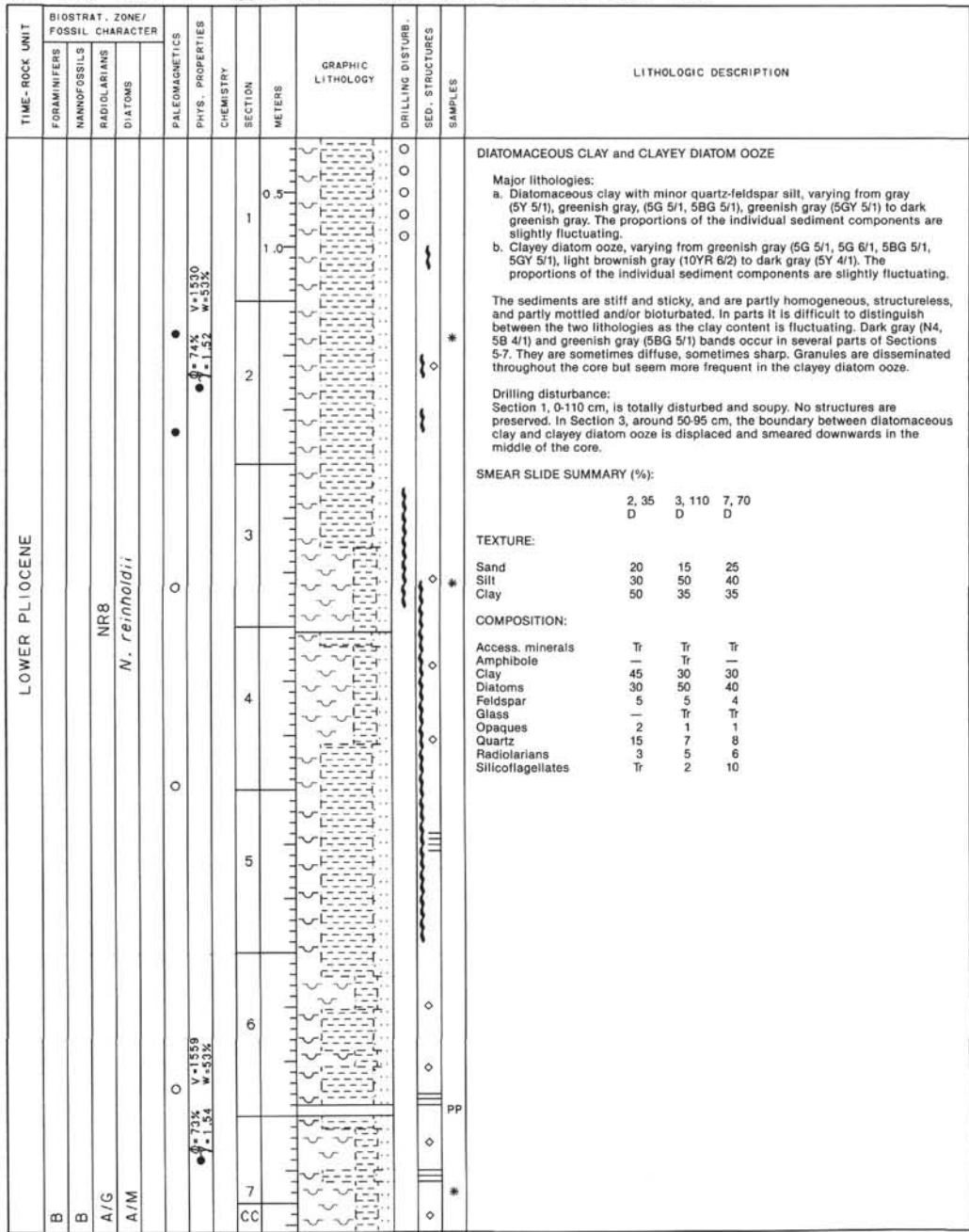


TIME-ROCK UNIT	BIOSTRAT. ZONE/FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																								
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS																																																																																		
LOWER PLIOCENE	B												<p>DIATOMACEOUS SILTY CLAY, CLAYEY DIATOM OOZE and DIATOMACEOUS CLAY</p> <p>Major lithologies:</p> <ol style="list-style-type: none"> Diatomaceous silty clay, mainly gray (5Y 5/1) and unnamed ("dark green", 5G 5/8); also greenish gray (5GY 5/1). Clayey diatom ooze with minor quartz-feldspar silt, mainly dark gray (5Y 4/1 and gray (5Y 5/1); also greenish gray (5GY 5/1). Diatomaceous clay with minor quartz-feldspar silt, gray (5Y 5/1) but with a slight reddish tinge. <p>The sediments are stiff and sticky, and much of the core is mottled and bioturbated. Diffuse layers of various colors occur in parts of the core, irrespective of lithological type: black (5Y 2.5/1), grayish green (5G 5/2, 5G 4/2), unnamed ("very dark green", 5G 3/1 and dark greenish gray, (5G 4/1).</p> <p>Granules and pebbles, mainly of angular and subangular quartz are disseminated throughout most of core their distribution being independent of lithology.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>2, 64</td> <td>4, 66</td> <td>7, 57</td> </tr> <tr> <td>D</td> <td></td> <td></td> <td></td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>30</td> <td>20</td> <td>15</td> </tr> <tr> <td>Silt</td> <td>40</td> <td>40</td> <td>35</td> </tr> <tr> <td>Clay</td> <td>30</td> <td>40</td> <td>50</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. minerals</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Amphibole</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>20</td> <td>35</td> <td>45</td> </tr> <tr> <td>Diatoms</td> <td>55</td> <td>30</td> <td>35</td> </tr> <tr> <td>Feldspar</td> <td>5</td> <td>10</td> <td>5</td> </tr> <tr> <td>Glass</td> <td>1</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Glaucconite</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Opaques</td> <td>1</td> <td>2</td> <td>2</td> </tr> <tr> <td>Palagonite</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Quartz</td> <td>15</td> <td>20</td> <td>7</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td>Tr</td> <td>5</td> </tr> <tr> <td>Silicoflagellates</td> <td>3</td> <td>3</td> <td>1</td> </tr> <tr> <td>Spicules</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> </table>		2, 64	4, 66	7, 57	D				Sand	30	20	15	Silt	40	40	35	Clay	30	40	50	Access. minerals	Tr	Tr	Tr	Amphibole	Tr	Tr	Tr	Clay	20	35	45	Diatoms	55	30	35	Feldspar	5	10	5	Glass	1	Tr	Tr	Glaucconite	Tr	Tr	Tr	Opaques	1	2	2	Palagonite	Tr	Tr	Tr	Quartz	15	20	7	Radiolarians	Tr	Tr	5	Silicoflagellates	3	3	1	Spicules	Tr	Tr	Tr
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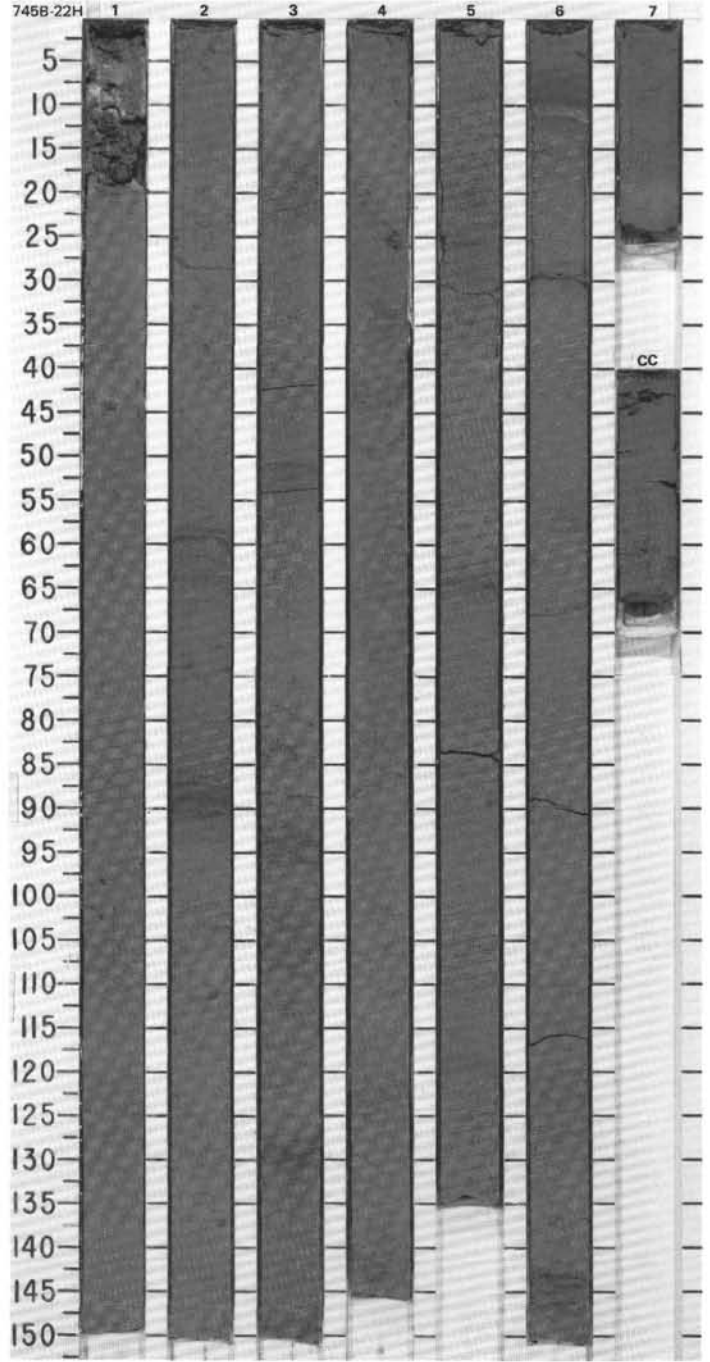
SITE 745 HOLE B CORE 20H CORED INTERVAL 167.5-177.0 mbsf

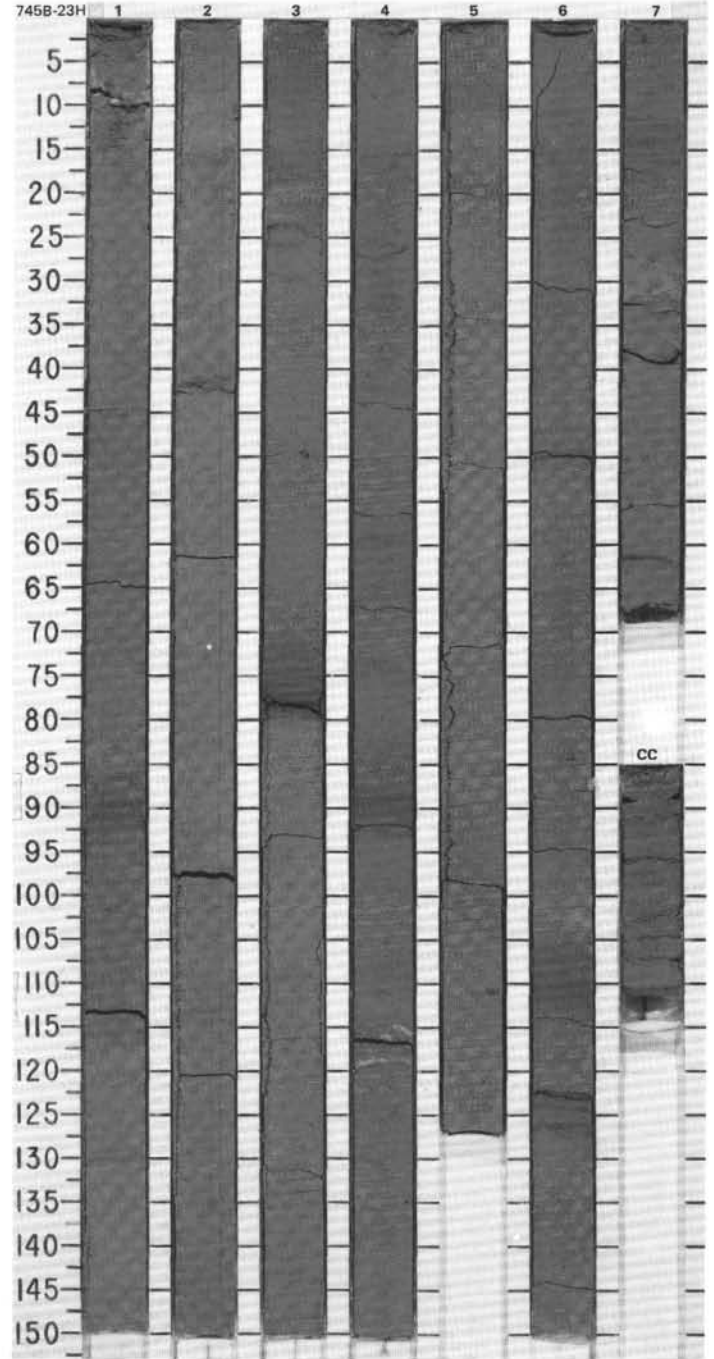
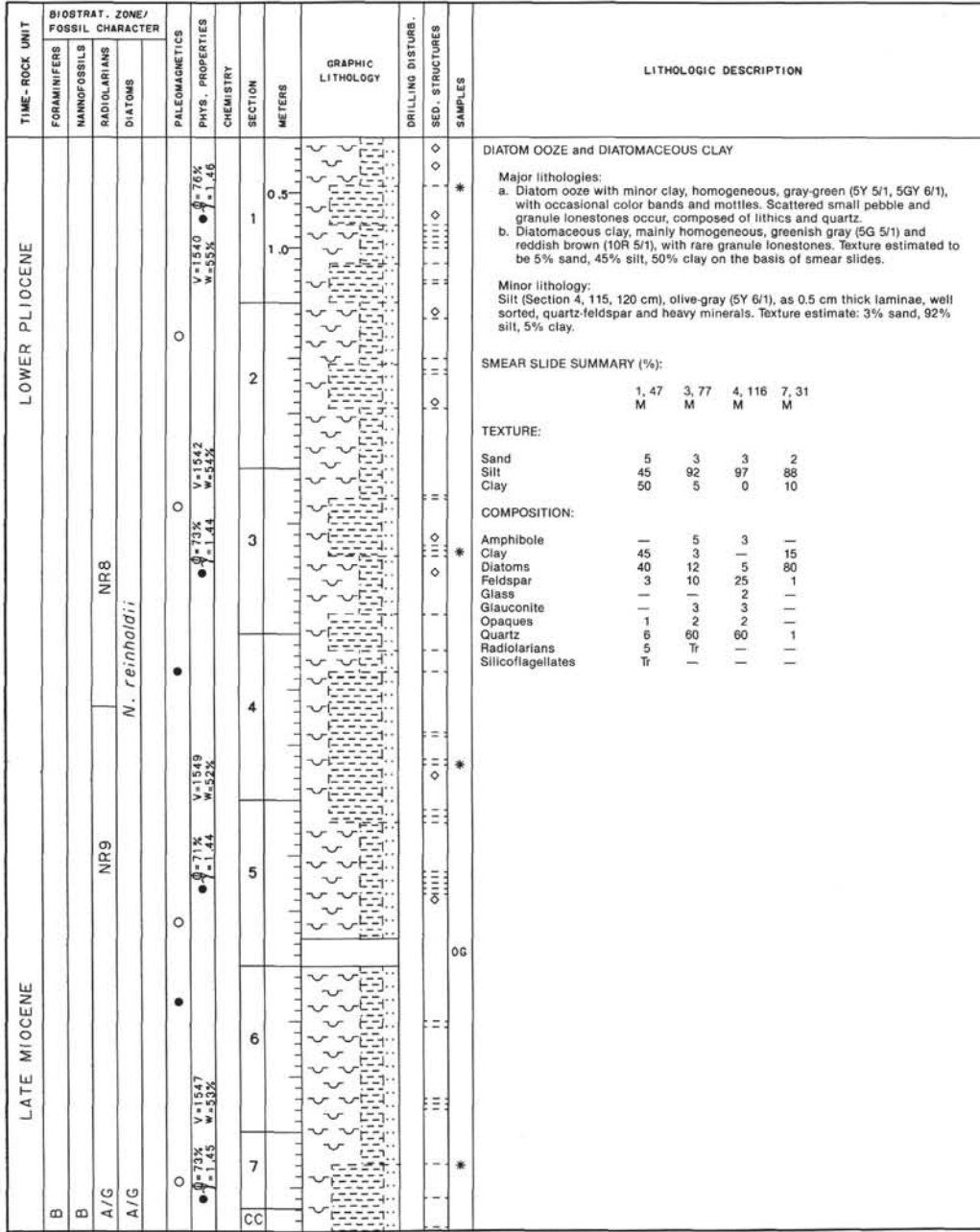




SITE 745 HOLE B CORE 22H CORED INTERVAL 186.5-196.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																					
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LOWER PLIOCENE	B				●			1	0.5					<p>DIATOMACEOUS CLAY and CLAYEY DIATOM OOZE</p> <p>Major lithologies: a. Diatomaceous clay with minor quartz-feldspar silt, varying from gray (5Y 5/1, 10YR 5/1), greenish gray, (5G 5/1) to dark greenish gray (5G 4/1). b. Clayey diatom ooze, varying from gray (5Y 5/1, 10YR 5/1), greenish gray (5GY 5/1) to dark greenish gray (5GY 4/1). Grayish green (5G 5/2) layers occur within this lithology in Section 2, 60 cm and 86 cm.</p> <p>The sediments are stiff and sticky, and are partly homogeneous and partly mottled and boturbed. Diffuse grayish green (5G 5/2) laminations occur in several parts of the core. The two lithologies are patchily mixed in Section 6, although diatomaceous clay is dominant.</p> <p>Disseminated quartz and feldspar granules and small pebbles occur throughout.</p> <p>Minor lithology: A white silt layer with green clay occurs in Section 6, 9-10 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 80</td> <td>3, 82</td> <td>4, 110</td> <td>6, 130</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>Sand</td> <td>15</td> <td>5</td> <td>20</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>55</td> <td>55</td> <td>55</td> <td>50</td> </tr> <tr> <td>Clay</td> <td>30</td> <td>40</td> <td>25</td> <td>45</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. Minerals</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Amphibole</td> <td>Tr</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>30</td> <td>40</td> <td>25</td> <td>45</td> </tr> <tr> <td>Diatoms</td> <td>55</td> <td>45</td> <td>55</td> <td>40</td> </tr> <tr> <td>Feldspar</td> <td>Tr</td> <td>2</td> <td>5</td> <td>3</td> </tr> <tr> <td>Glass</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Glauconite</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> </tr> <tr> <td>Opauques</td> <td>1</td> <td>2</td> <td>1</td> <td>2</td> </tr> <tr> <td>Palagonite</td> <td>—</td> <td>1</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Quartz</td> <td>5</td> <td>3</td> <td>10</td> <td>7</td> </tr> <tr> <td>Radiolarians</td> <td>3</td> <td>3</td> <td>2</td> <td>1</td> </tr> <tr> <td>Silicoflagellates</td> <td>5</td> <td>2</td> <td>1</td> <td>1</td> </tr> </table>		1, 80	3, 82	4, 110	6, 130	D	D	D	D	D	Sand	15	5	20	5	Silt	55	55	55	50	Clay	30	40	25	45	Access. Minerals	Tr	Tr	Tr	Tr	Amphibole	Tr	—	—	Tr	Clay	30	40	25	45	Diatoms	55	45	55	40	Feldspar	Tr	2	5	3	Glass	—	Tr	—	—	Glauconite	1	1	1	1	Opauques	1	2	1	2	Palagonite	—	1	Tr	Tr	Quartz	5	3	10	7	Radiolarians	3	3	2	1	Silicoflagellates	5	2	1	1
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SITE 745 HOLE B CORE 24H CORED INTERVAL 205.5-215.0 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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				●	V=73% W=43%		1	0.5						<p>CLAYEY DIATOM OOZE and DIATOMACEOUS CLAY</p> <p>Major lithologies:</p> <p>a. Clayey diatom ooze, mainly homogeneous, gray-green (5Y 5/1, 5GY 5/1) or olive-gray (5Y 5/1), with occasional mottling (e.g., Section 4, 80-85 cm; pale red, 2.5YR 6/2) and vague color-layering (e.g., Section 1, 50, 138 cm; Section 2, 62, 131, 145 cm; Section 5, 43-55, sharp base). Also with scattered granule and small pebble lonestone clasts.</p> <p>b. Diatomaceous clay, mainly homogeneous, greenish gray (5GY 5/1, 5BG 5/1, 5G 5/1) to olive gray (5Y 5/1) and pale red (2.5YR 6/2), with occasional vague color-layering (e.g., Section 5, 66-73 cm) and a small number of granule and small pebble lonestones. Grain size data: 1% sand, 85% silt, 14% clay fraction.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>4, 60</td> <td>5, 55</td> </tr> <tr> <td>M</td> <td>M</td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>3</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>42</td> <td>70</td> </tr> <tr> <td>Clay</td> <td>55</td> <td>25</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Amphibole</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>60</td> <td>35</td> </tr> <tr> <td>Diatoms</td> <td>25</td> <td>60</td> </tr> <tr> <td>Feldspar</td> <td>2</td> <td>—</td> </tr> <tr> <td>Glauconite</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Opaques</td> <td>2</td> <td>Tr</td> </tr> <tr> <td>Quartz</td> <td>5</td> <td>1</td> </tr> <tr> <td>Radiolarians</td> <td>3</td> <td>—</td> </tr> <tr> <td>Silicoflagellates</td> <td>—</td> <td>1</td> </tr> <tr> <td>Spicules</td> <td>Tr</td> <td>—</td> </tr> </table>		4, 60	5, 55	M	M	M	Sand	3	5	Silt	42	70	Clay	55	25	Amphibole	Tr	—	Clay	60	35	Diatoms	25	60	Feldspar	2	—	Glauconite	Tr	—	Opaques	2	Tr	Quartz	5	1	Radiolarians	3	—	Silicoflagellates	—	1	Spicules	Tr	—
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