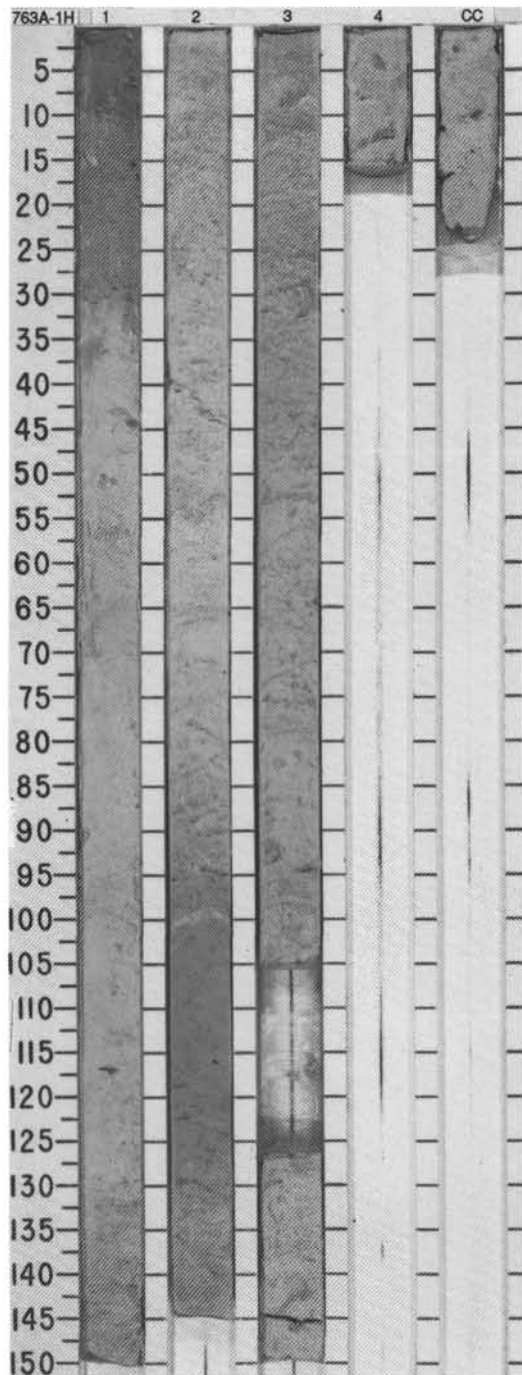
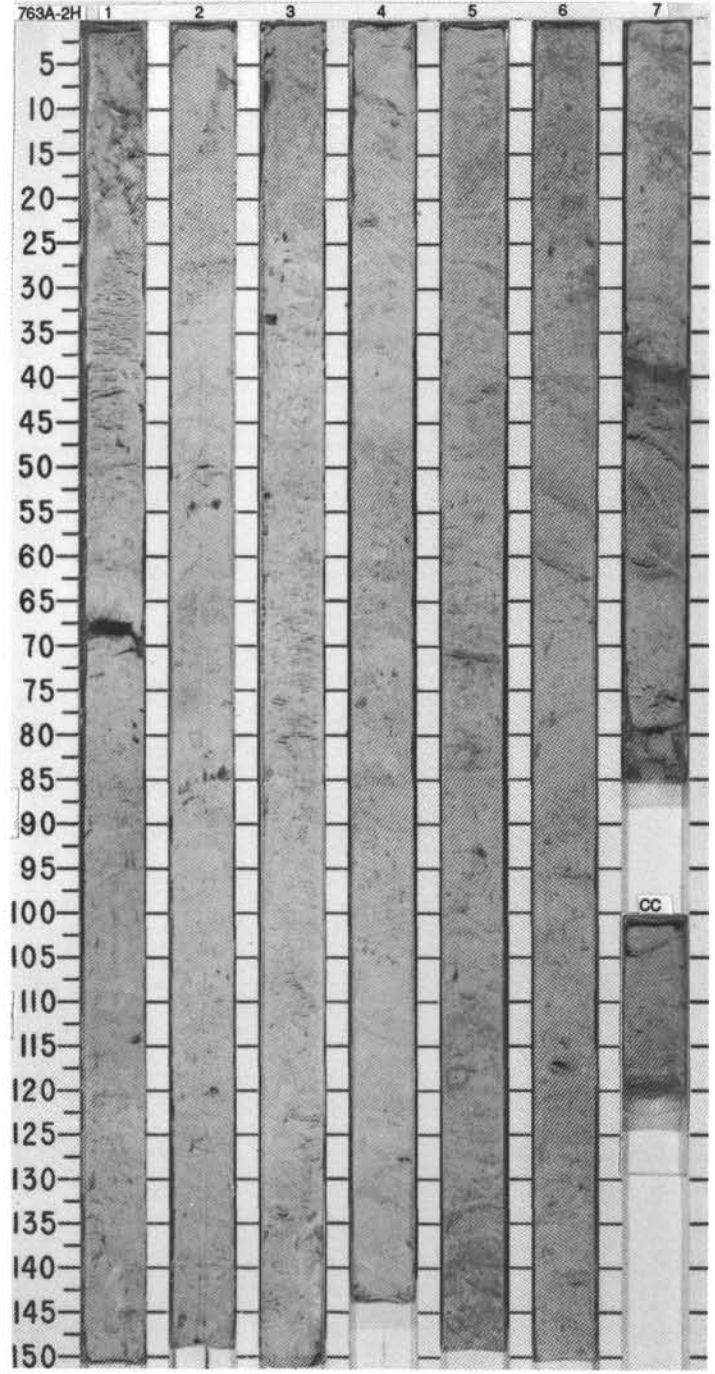


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																														
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																																																																																								
QUATERNARY					Chron 1	V-1.525 0.76-3 5.1.50 1.4.7	CaCO <sub>3</sub> =76.47%																																																																																																																					
A/G	N22 - N23							1	0.5					<p>* FORAMINIFER NANNOFOSSIL OOZE WITH CLAY</p> <p>Drilling disturbance is moderate.</p> <p>Major lithology: FORAMINIFER NANNOFOSSIL OOZE with CLAY, light gray (5Y 7/1) to light brownish gray (10YR 6/2), mottled, structureless. About 25 to 30% foraminifers and about 10 to 25% clay. Calcispheres (1%) are present in Section 3.</p> <p>Minor lithology: Nannofossil ooze with foraminifers and clay, pinkish gray (7.5YR 7/3 to 7.5YR 6/2), in Section 1, 0-30 cm. Transition toward the major lithology is gradual.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <thead> <tr> <th></th> <th>1, 18</th> <th>2, 73</th> <th>3, 71</th> <th>CC, 10</th> </tr> <tr> <th></th> <th>M</th> <th>D</th> <th>D</th> <th>M</th> </tr> </thead> <tbody> <tr> <td>Calcispheres</td> <td>Tr</td> <td>Tr</td> <td>1</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>20</td> <td>15</td> <td>25</td> <td>10</td> </tr> <tr> <td>Fish</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>10</td> <td>25</td> <td>28</td> <td>30</td> </tr> <tr> <td>Mica</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Nannofossils</td> <td>69</td> <td>60</td> <td>45</td> <td>55</td> </tr> <tr> <td>Pyrite</td> <td>—</td> <td>—</td> <td>—</td> <td>5</td> </tr> <tr> <td>Quartz</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Spicules</td> <td>1</td> <td>—</td> <td>1</td> <td>Tr</td> </tr> </tbody> </table> <p>* COMPOSITION:</p> <table border="1"> <thead> <tr> <th></th> <th>1, 18</th> <th>2, 73</th> <th>3, 71</th> <th>CC, 10</th> </tr> <tr> <th></th> <th>M</th> <th>D</th> <th>D</th> <th>M</th> </tr> </thead> <tbody> <tr> <td>Calcispheres</td> <td>Tr</td> <td>Tr</td> <td>1</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>20</td> <td>15</td> <td>25</td> <td>10</td> </tr> <tr> <td>Fish</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>10</td> <td>25</td> <td>28</td> <td>30</td> </tr> <tr> <td>Mica</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Nannofossils</td> <td>69</td> <td>60</td> <td>45</td> <td>55</td> </tr> <tr> <td>Pyrite</td> <td>—</td> <td>—</td> <td>—</td> <td>5</td> </tr> <tr> <td>Quartz</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Spicules</td> <td>1</td> <td>—</td> <td>1</td> <td>Tr</td> </tr> </tbody> </table>		1, 18	2, 73	3, 71	CC, 10		M	D	D	M	Calcispheres	Tr	Tr	1	—	Clay	20	15	25	10	Fish	Tr	—	—	—	Foraminifers	10	25	28	30	Mica	Tr	Tr	Tr	Tr	Nannofossils	69	60	45	55	Pyrite	—	—	—	5	Quartz	—	—	Tr	—	Spicules	1	—	1	Tr		1, 18	2, 73	3, 71	CC, 10		M	D	D	M	Calcispheres	Tr	Tr	1	—	Clay	20	15	25	10	Fish	Tr	—	—	—	Foraminifers	10	25	28	30	Mica	Tr	Tr	Tr	Tr	Nannofossils	69	60	45	55	Pyrite	—	—	—	5	Quartz	—	—	Tr	—	Spicules	1	—	1	Tr
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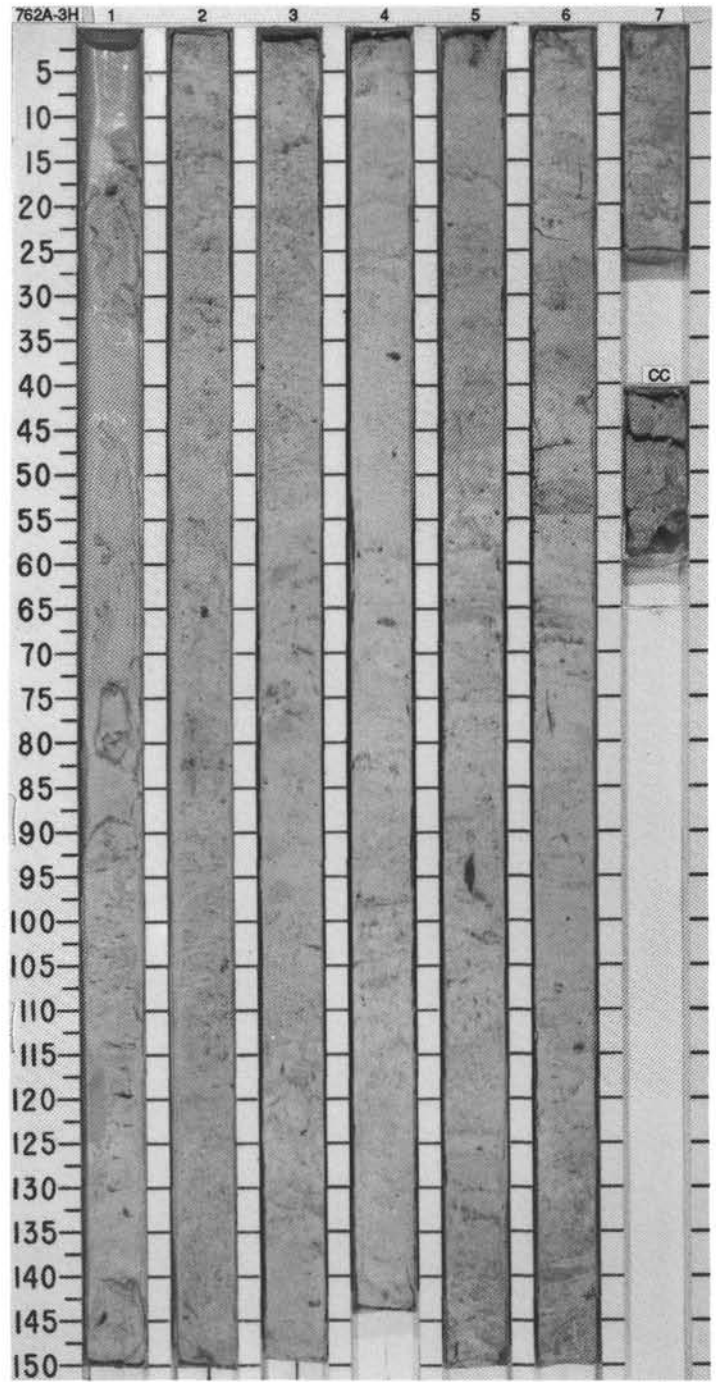


SITE 763 HOLE A CORE 2H CORED INTERVAL 4.9-14.4 mbsf

TIME - ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																								
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																		
QUATERNARY																																																						
A/G	N22 - N23	NN20 - NN21		Barren					0.5					<p>NANNOFOSSIL OOZE WITH FORAMINIFERS AND FORAMINIFER NANNOFOSSIL OOZE</p> <p>Drilling disturbance is moderate to heavy.</p> <p>* Major lithologies: NANNOFOSSIL OOZE with FORAMINIFERS and FORAMINIFER NANNOFOSSIL OOZE, light gray (5Y 7/1) and white (5Y 8/1). The percentage of foraminifers estimated according to the smear slides tends to be lower than the real percentage (estimated with binocular or washing) which is between 20 and 30%. Some burrows are visible (especially in Section 5). A few thin drilling disturbed greenish gray diffuse layers are noticed.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 77</td> <td>3, 33</td> <td>6, 67</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Calcispheres</td> <td>2</td> <td>—</td> <td>2</td> </tr> <tr> <td>Clay</td> <td>3</td> <td>—</td> <td>5</td> </tr> <tr> <td>Foraminifers</td> <td>15</td> <td>5</td> <td>25</td> </tr> <tr> <td>Mica</td> <td>Tr</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>80</td> <td>88</td> <td>67</td> </tr> <tr> <td>Pyrite</td> <td>—</td> <td>7</td> <td>—</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td>Tr</td> <td>1</td> </tr> <tr> <td>Spicules</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> </table>		1, 77	3, 33	6, 67	D	D	D	D	Calcispheres	2	—	2	Clay	3	—	5	Foraminifers	15	5	25	Mica	Tr	Tr	—	Nannofossils	80	88	67	Pyrite	—	7	—	Radiolarians	Tr	Tr	1	Spicules	—	—	Tr
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A/G	NN19	<i>C. tuberosa - B. invayinata</i>		Barren					1.0																																													
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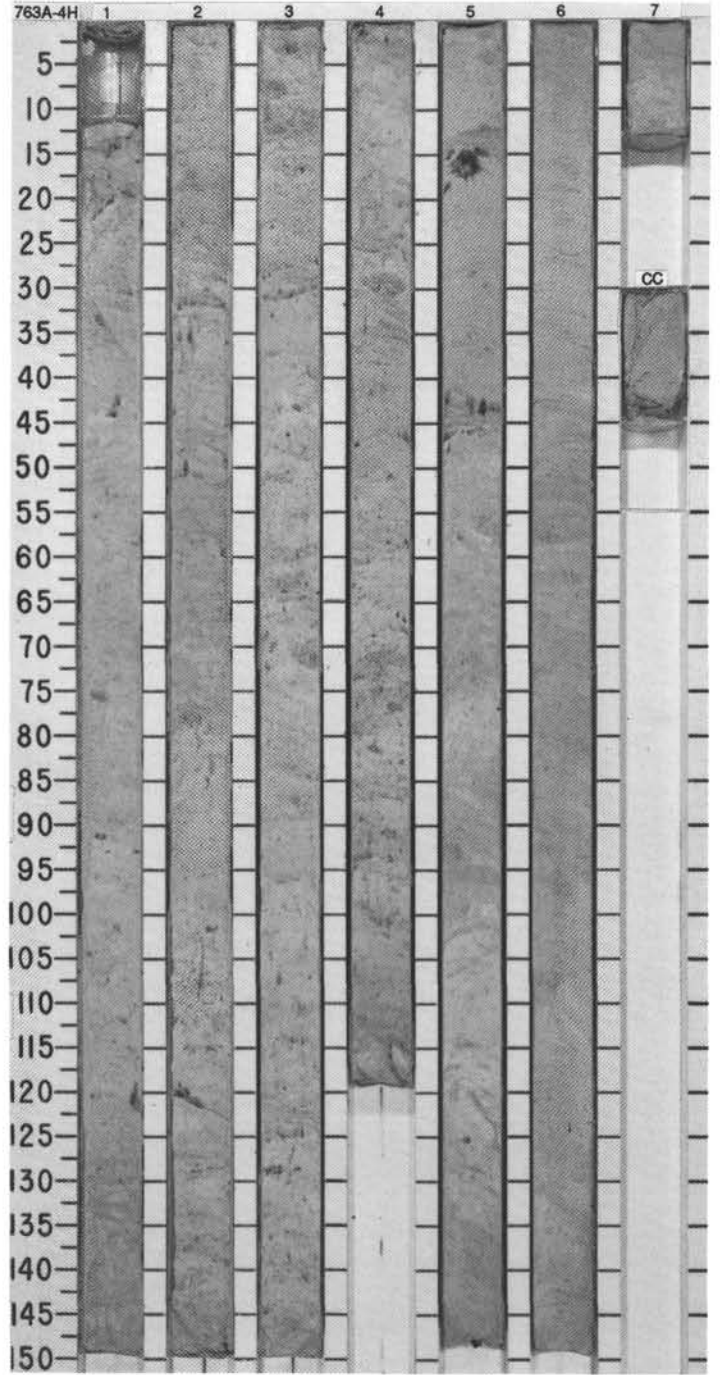


TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER	PHYS. PROPERTIES	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																														
FORAMINIFERS	NANNOFOSSILS										RADIOLARIANS	DIAZOMS	PALYMONOPHS	PALCOMAGNETICS	CHEMISTRY																																																																									
QUATERNARY										<p>FORAMINIFER NANNOFOSSIL OOZE WITH CLAY</p> <p>Upper core is soupy, remainder of core shows only minor drilling disturbance.</p> <p>Major lithology: FORAMINIFER NANNOFOSSIL OOZE WITH CLAY, light gray (5Y 7/1) to light greenish gray (5GY 7/1). The light greenish gray oozes have more clay and quartz, but they are not 10% of the smear slides (although CaCO<sub>3</sub> analyses suggest there &gt;10%, hence the name). Light greenish gray mottles (10Y 6/2) are dispersed throughout the core. Sections 2, 4, 5, and 6 have laminations of light greenish gray ooze enriched in clay and quartz alternating with the light gray ooze. Boundaries between laminations are gradational. Patterns appear to be cyclic. Large scale cycles are superimposed on smaller cycles in Section 5. A distinct light olive gray (5Y 6/2) color boundary in Section 6, 52-55 cm. Surface is mottled, suggesting bioturbation, but no distinct burrows are observed.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>2, 79</td> <td>2, 114</td> <td>4, 35</td> <td>5, 32</td> <td>6, 53</td> </tr> <tr> <td></td> <td>M</td> <td>D</td> <td>D</td> <td>M</td> <td>M</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>—</td> <td>1</td> <td>—</td> <td>1</td> <td>—</td> </tr> <tr> <td>Calcispheres</td> <td>1</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>8</td> <td>—</td> <td>2</td> <td>2</td> <td>1</td> </tr> <tr> <td>Fish</td> <td>2</td> <td>1</td> <td>—</td> <td>—</td> <td>1</td> </tr> <tr> <td>Foraminifers</td> <td>40</td> <td>30</td> <td>40</td> <td>40</td> <td>35</td> </tr> <tr> <td>Glass</td> <td>3</td> <td>—</td> <td>2</td> <td>1</td> <td>1</td> </tr> <tr> <td>Nannofossils</td> <td>40</td> <td>60</td> <td>45</td> <td>50</td> <td>55</td> </tr> <tr> <td>Opauques</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>2</td> <td>2</td> <td>1</td> <td>1</td> <td>3</td> </tr> <tr> <td>Radiolarians</td> <td>2</td> <td>3</td> <td>5</td> <td>3</td> <td>2</td> </tr> <tr> <td>Spicules</td> <td>2</td> <td>3</td> <td>5</td> <td>2</td> <td>2</td> </tr> </table>		2, 79	2, 114	4, 35	5, 32	6, 53		M	D	D	M	M	Accessory minerals	—	1	—	1	—	Calcispheres	1	—	—	—	—	Clay	8	—	2	2	1	Fish	2	1	—	—	1	Foraminifers	40	30	40	40	35	Glass	3	—	2	1	1	Nannofossils	40	60	45	50	55	Opauques	—	—	—	—	—	Quartz	2	2	1	1	3	Radiolarians	2	3	5	3	2	Spicules	2	3	5	2	2
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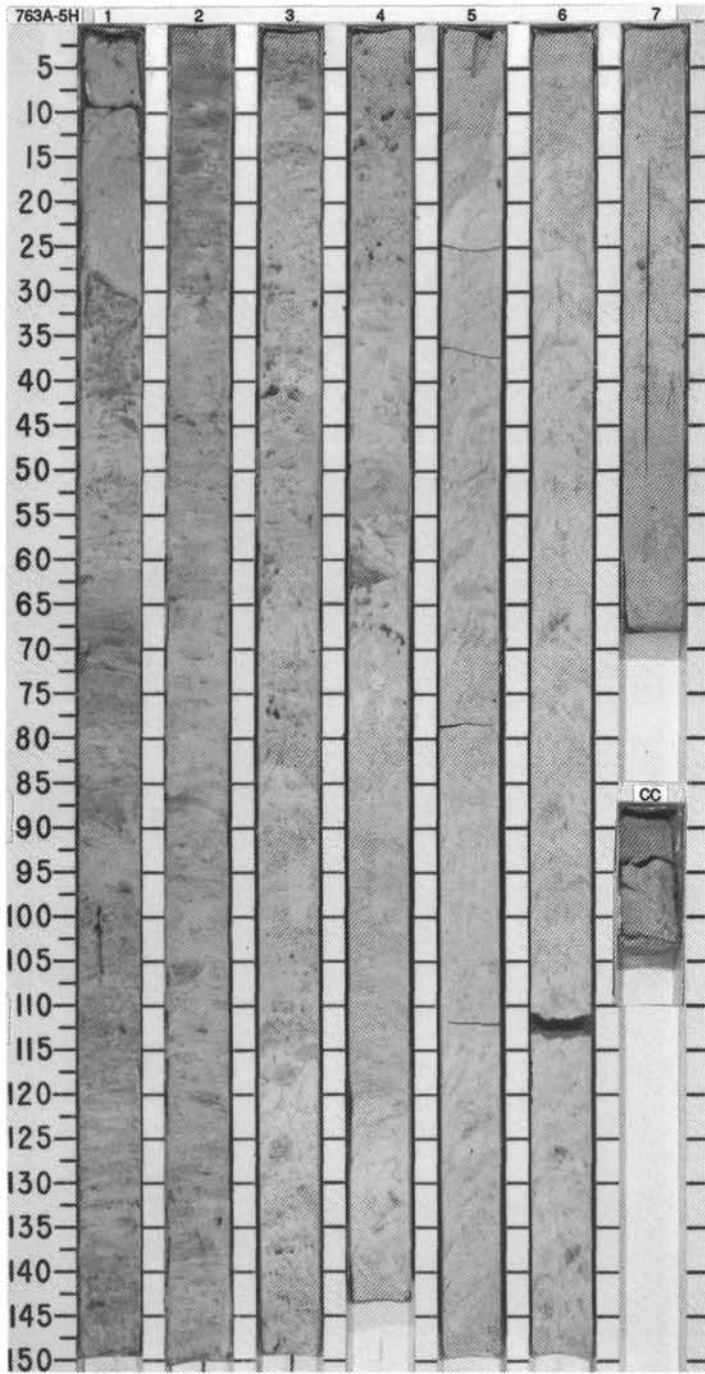
SITE 763 HOLE A CORE 4H CORED INTERVAL 23.9-33.4 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SEP. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																								
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QUATERNARY									<p>FORAMINIFER NANNOFOSSIL OOZE WITH CLAY</p> <p>Drilling disturbance is moderate.</p> <p>Major lithology: FORAMINIFER NANNOFOSSIL OOZE with CLAY, light gray (5Y 7/1). Percent of foraminifers is difficult to estimate (differences between smear slide estimates, sieving and binocular observation). They probably form around 25 to 40% decreasing in abundance in Sections 5, 6, 7, and CC. Some diffuse slightly more greenish (5G 6/1, 5GY 7/1, 5G 7/1) patches or disturbed cm thick layers are present in Sections 1 to 4. Some thinner, slightly more greenish, parallel laminations appear in the upper part of Section 6. This greenish color may be due to an increase in clay content. Bioturbation is minor (Sections 3 and 5) to absent.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 93</td> <td>3, 62</td> <td>5, 79</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Calcospheres</td> <td>—</td> <td>5</td> <td>1</td> </tr> <tr> <td>Clay</td> <td>1</td> <td>—</td> <td>—</td> </tr> <tr> <td>Fish</td> <td>—</td> <td>—</td> <td>3</td> </tr> <tr> <td>Foraminifers</td> <td>10</td> <td>20</td> <td>10</td> </tr> <tr> <td>Nannofossils</td> <td>84</td> <td>69</td> <td>84</td> </tr> <tr> <td>Quartz</td> <td>3</td> <td>5</td> <td>2</td> </tr> <tr> <td>Radiolarians</td> <td>1</td> <td>1</td> <td>—</td> </tr> <tr> <td>Spicules</td> <td>1</td> <td>—</td> <td>—</td> </tr> </table>		1, 93	3, 62	5, 79	D	D	D	D	Calcospheres	—	5	1	Clay	1	—	—	Fish	—	—	3	Foraminifers	10	20	10	Nannofossils	84	69	84	Quartz	3	5	2	Radiolarians	1	1	—	Spicules	1	—	—
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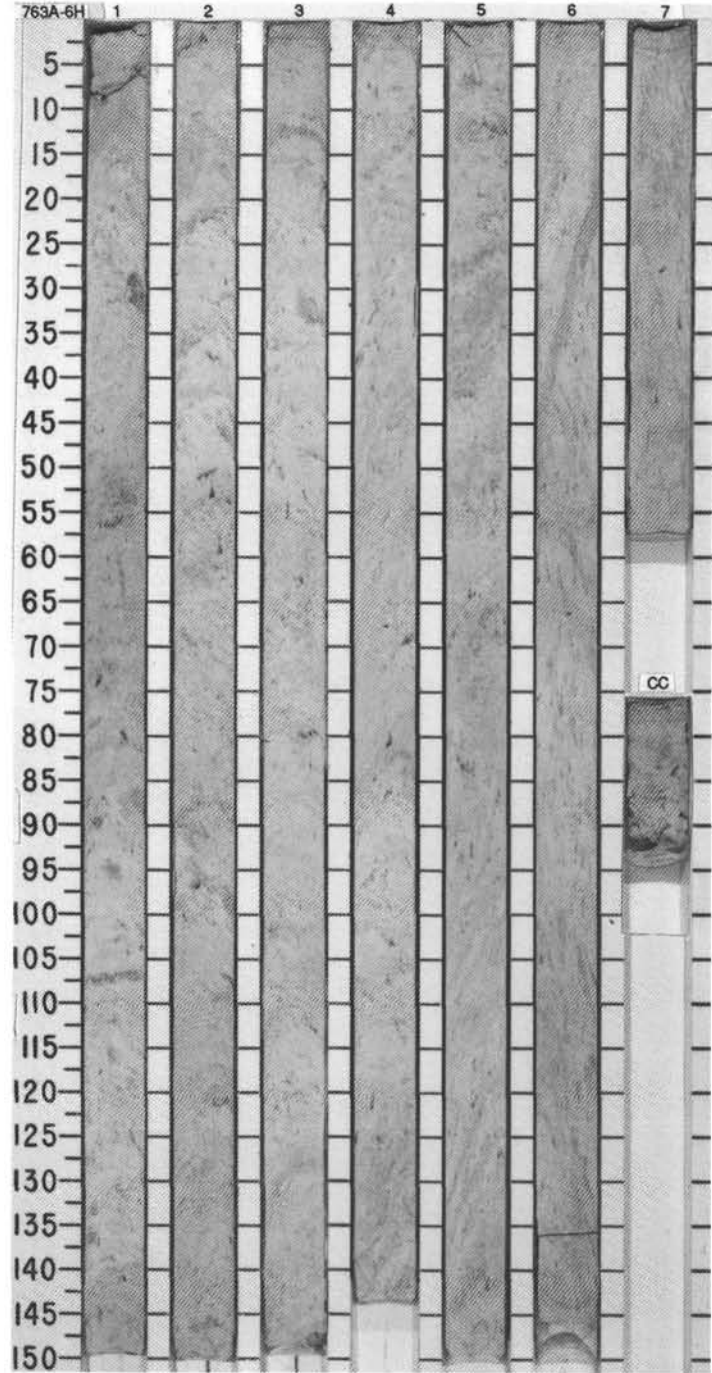


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	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									CHEMISTRY																																																																																							
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	A/G	N21					1					<b>FORAMINIFER NANNOFOSSIL OOZE WITH CLAY</b> Moderate to severe drilling disturbance. Major lithology: FORAMINIFER NANNOFOSSIL OOZE with CLAY, light gray (5Y 7/1) to white (5Y 8/1). Light olive gray (5Y 8/2) mottles throughout. Section 3 appears to be transitional between light gray ooze above and white ooze below. Slight alternation of color patterns may be cyclic. Foraminifers visible on the split core surface. Gray spots are drilling grease or amorphous iron sulfide. Layers with higher clay contents are light greenish gray (10Y 6/2, 5GY 7/1), and occur as laminations and spots. Core may have been laminated but drilling has disrupted and distorted original bedding, particularly in Sections 5 and 6.  SMEAR SLIDE SUMMARY (%): <table border="1"> <tr> <td></td> <td>1, 69</td> <td>2, 52</td> <td>3, 70</td> <td>4, 75</td> <td>5, 75</td> <td>6, 67</td> <td>7, 32</td> </tr> <tr> <td>M</td> <td></td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>M</td> <td>D</td> </tr> </table> COMPOSITION: <table border="1"> <tr> <td>Accessory minerals</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Calcite</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>1</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>10</td> <td>2</td> <td>2</td> <td>2</td> <td>4</td> <td>10</td> <td>3</td> </tr> <tr> <td>Foraminifers</td> <td>40</td> <td>46</td> <td>30</td> <td>34</td> <td>30</td> <td>30</td> <td>30</td> </tr> <tr> <td>Glaucanite</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>1</td> <td>—</td> <td>1</td> <td>1</td> </tr> <tr> <td>Nannofossils</td> <td>46</td> <td>50</td> <td>67</td> <td>60</td> <td>63</td> <td>56</td> <td>65</td> </tr> <tr> <td>Opauques</td> <td>1</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Quartz</td> <td>2</td> <td>Tr</td> <td>Tr</td> <td>2</td> <td>1</td> <td>2</td> <td>1</td> </tr> </table>		1, 69	2, 52	3, 70	4, 75	5, 75	6, 67	7, 32	M		D	D	D	D	M	D	Accessory minerals	1	1	1	1	1	1	Tr	Calcite	—	—	—	—	1	Tr	Tr	Clay	10	2	2	2	4	10	3	Foraminifers	40	46	30	34	30	30	30	Glaucanite	Tr	—	—	—	Tr	Tr	—	Mica	Tr	Tr	Tr	1	—	1	1	Nannofossils	46	50	67	60	63	56	65	Opauques	1	—	—	—	—	—	Tr	Quartz	2	Tr	Tr	2	1	2	1
	1, 69	2, 52	3, 70	4, 75	5, 75	6, 67	7, 32																																																																																													
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Clay	10	2	2	2	4	10	3																																																																																													
Foraminifers	40	46	30	34	30	30	30																																																																																													
Glaucanite	Tr	—	—	—	Tr	Tr	—																																																																																													
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Nannofossils	46	50	67	60	63	56	65																																																																																													
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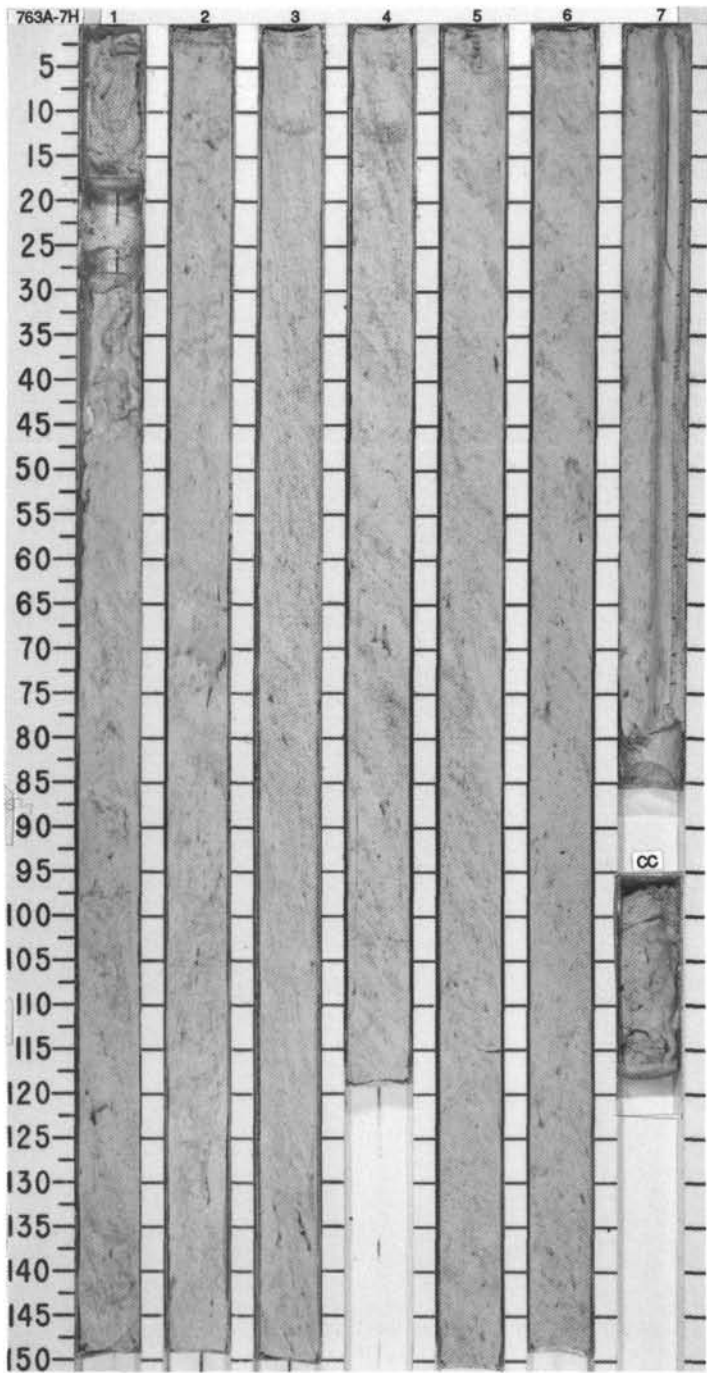


SITE 763 HOLE A CORE 6H CORED INTERVAL 42.9-52.4 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																				
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																																																													
UPPER PLIOCENE																																																																																																	
A/G	N21							1	0.5			*	<p>FORAMINIFER NANNOFOSSIL OOZE WITH CLAY AND NANNOFOSSIL OOZE WITH CLAY AND FORAMINIFERS</p> <p>The lower part of the core, Sections 5, 6, 7, and CC, is strongly disturbed by drilling.</p> <p>Major lithology: FORAMINIFER NANNOFOSSIL OOZE WITH CLAY and NANNOFOSSIL OOZE WITH CLAY AND FORAMINIFERS, light gray (10Y 7/1). The upper half of Section 1 shows a slightly more greenish color (5Y B/1 to 5Y 7/1), probably due to increased clay content. About 20 to 35% foraminifers. Calcispheres (1%, Sections 4 and 6) and spicules (2%, Section 4) are present.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 32</td> <td>2, 29</td> <td>4, 68</td> <td>6, 66</td> <td>7, 27</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Calcispheres</td> <td>—</td> <td>—</td> <td>1</td> <td>1</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>3</td> <td>—</td> <td>3</td> <td>5</td> <td>4</td> </tr> <tr> <td>Fish</td> <td>—</td> <td>—</td> <td>1</td> <td>1</td> <td>1</td> </tr> <tr> <td>Foraminifers</td> <td>28</td> <td>20</td> <td>30</td> <td>35</td> <td>35</td> </tr> <tr> <td>Glass</td> <td>—</td> <td>—</td> <td>1</td> <td>—</td> <td>—</td> </tr> <tr> <td>Glauconite</td> <td>—</td> <td>—</td> <td>—</td> <td>1</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>Tr</td> <td>—</td> <td>1</td> <td>—</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>67</td> <td>79</td> <td>60</td> <td>55</td> <td>59</td> </tr> <tr> <td>Opales</td> <td>1</td> <td>1</td> <td>—</td> <td>2</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>1</td> <td>—</td> <td>—</td> <td>—</td> <td>1</td> </tr> <tr> <td>Radiolarians</td> <td>—</td> <td>—</td> <td>1</td> <td>—</td> <td>—</td> </tr> <tr> <td>Spicules</td> <td>—</td> <td>—</td> <td>2</td> <td>—</td> <td>—</td> </tr> </table>		1, 32	2, 29	4, 68	6, 66	7, 27		D	D	D	D	D	Calcispheres	—	—	1	1	—	Clay	3	—	3	5	4	Fish	—	—	1	1	1	Foraminifers	28	20	30	35	35	Glass	—	—	1	—	—	Glauconite	—	—	—	1	—	Mica	Tr	—	1	—	—	Nannofossils	67	79	60	55	59	Opales	1	1	—	2	—	Quartz	1	—	—	—	1	Radiolarians	—	—	1	—	—	Spicules	—	—	2	—	—
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Calcispheres	—	—	1	1	—																																																																																												
Clay	3	—	3	5	4																																																																																												
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Foraminifers	28	20	30	35	35																																																																																												
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Radiolarians	—	—	1	—	—																																																																																												
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A/G	NN16							2	1.0			*																																																																																					
Barren								3				*																																																																																					
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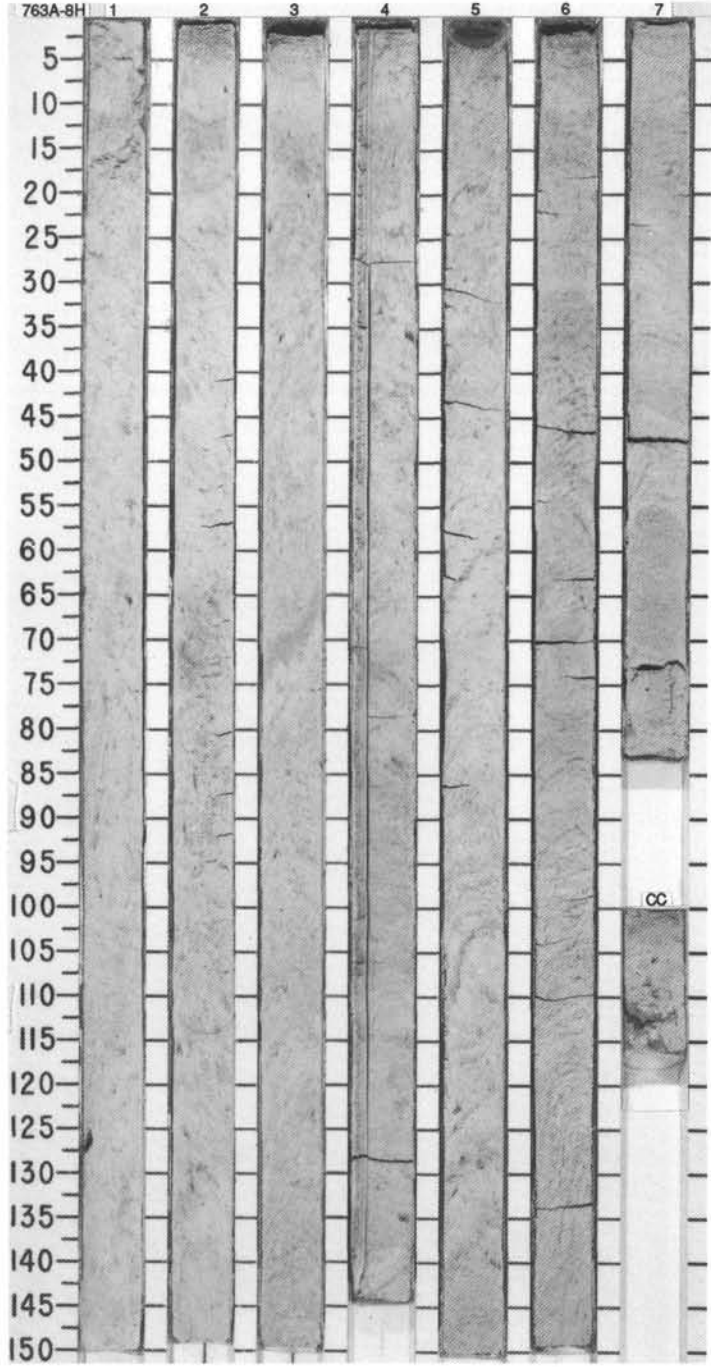


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION	
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS											
															PALYNOBIOSTRAT.
UPPER PLIOCENE															
	N21							Chron 2							
A/G	NNT6							Chron 2A							
A/G	Barren							Chron 2A							
	Barren							Chron 2A							
		⑥ 55.4   41.58						Chron 2A							
		⑦ 51.81						Chron 2A							
		⑧ 51.78						Chron 2A							
		⑨ 51.73						Chron 2A							
		⑩ 52.80X						Chron 2A							
		⑪ 54.80X						Chron 2A							
		⑫ 58.02X						Chron 2A							
		⑬ 59.80X						Chron 2A							
		⑭ 59.80X						Chron 2A							
		⑮ 61.90X						Chron 2A							

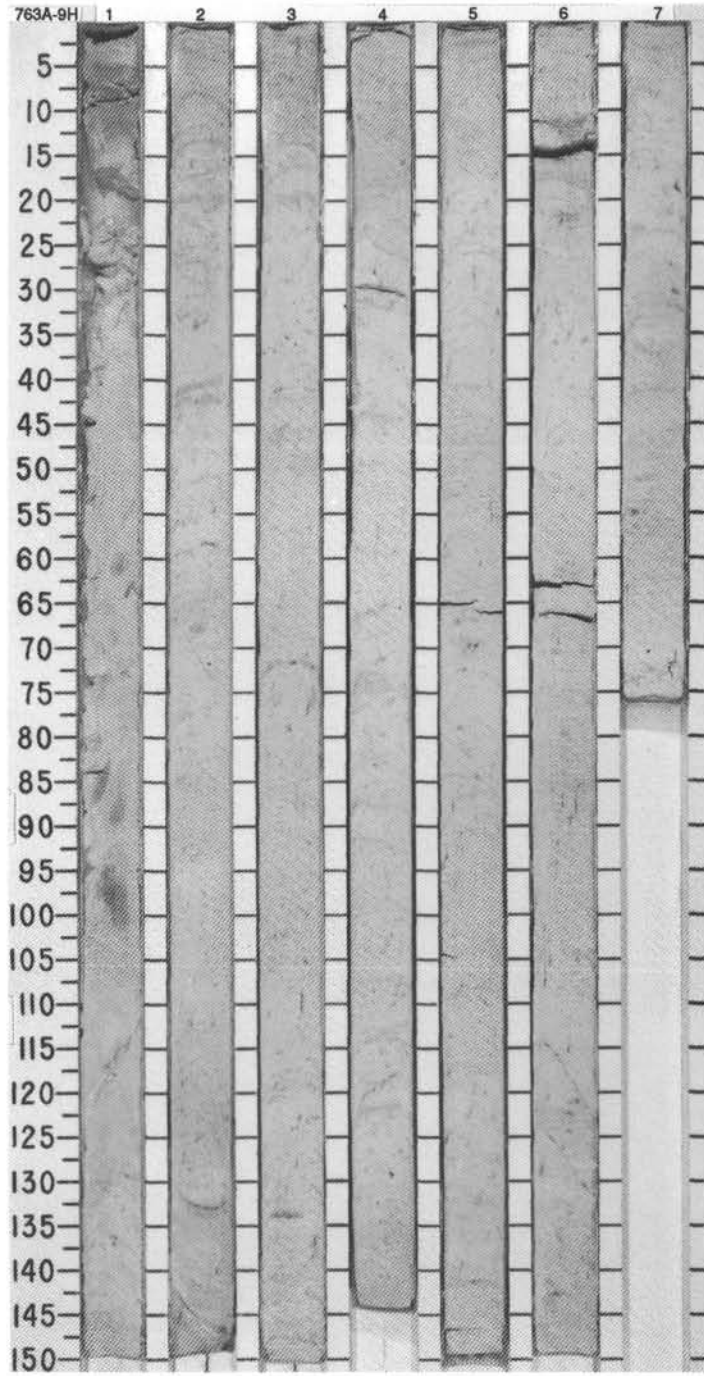


SITE 763 HOLE A CORE 8H CORED INTERVAL 61.9-71.4 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DICATOMS	PALYMONORPHS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																				
UPPER PLIOCENE																<p>FORAMINIFER NANNOFOSSIL OOZE WITH CLAY AND NANNOFOSSIL OOZE WITH CLAY AND FORAMINIFERS</p> <p>Major lithologies: FORAMINIFER NANNOFOSSIL OOZE with CLAY and NANNOFOSSIL OOZE with CLAY and FORAMINIFERS, light greenish gray (10Y 7/1) to very light greenish gray (10Y 8/1) with minor light greenish gray (10 7/1) mottling in Sections 1 and 2, becoming color banded in Sections 2-7. Color bands are light greenish gray (10Y 7/1) to very light greenish gray (10Y 8/1) in Section 3, with an increasing proportion of light gray (5Y 7/1, 5Y 7/2, and 2.5Y 7/2) layers down section, and with occasional light olive gray (5Y 6/2) layers in Section 6 and 7. Black (N2) to very dark gray (N3) flecks are scattered throughout the core and are probably an amorphous form of iron sulfide (pyrite precursor?). Bioturbation apparently decreases down-section as color banded layers become more apparent. Foraminifers range from 20 to 40% of the rock based on smear slide examination with no clear correlation between foraminifer abundance and color.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 75</td> <td>3, 75</td> <td>5, 75</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Bioclast</td> <td>1</td> <td>1</td> <td>1</td> </tr> <tr> <td>Clay</td> <td>5</td> <td>5</td> <td>7</td> </tr> <tr> <td>Fe oxide</td> <td>2</td> <td>1</td> <td>1</td> </tr> <tr> <td>Foraminifers</td> <td>40</td> <td>25</td> <td>2</td> </tr> <tr> <td>Glauconite</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>51</td> <td>68</td> <td>69</td> </tr> <tr> <td>Quartz</td> <td>1</td> <td>Tr</td> <td>2</td> </tr> </table>		1, 75	3, 75	5, 75	D	D	D	D	Bioclast	1	1	1	Clay	5	5	7	Fe oxide	2	1	1	Foraminifers	40	25	2	Glauconite	Tr	—	—	Nannofossils	51	68	69	Quartz	1	Tr	2
	1, 75	3, 75	5, 75																																																	
D	D	D	D																																																	
Bioclast	1	1	1																																																	
Clay	5	5	7																																																	
Fe oxide	2	1	1																																																	
Foraminifers	40	25	2																																																	
Glauconite	Tr	—	—																																																	
Nannofossils	51	68	69																																																	
Quartz	1	Tr	2																																																	
A/G	N20 - N19										0.5																																									
A/G	N116										1.0																																									
Barren											2																																									
Barren											3																																									
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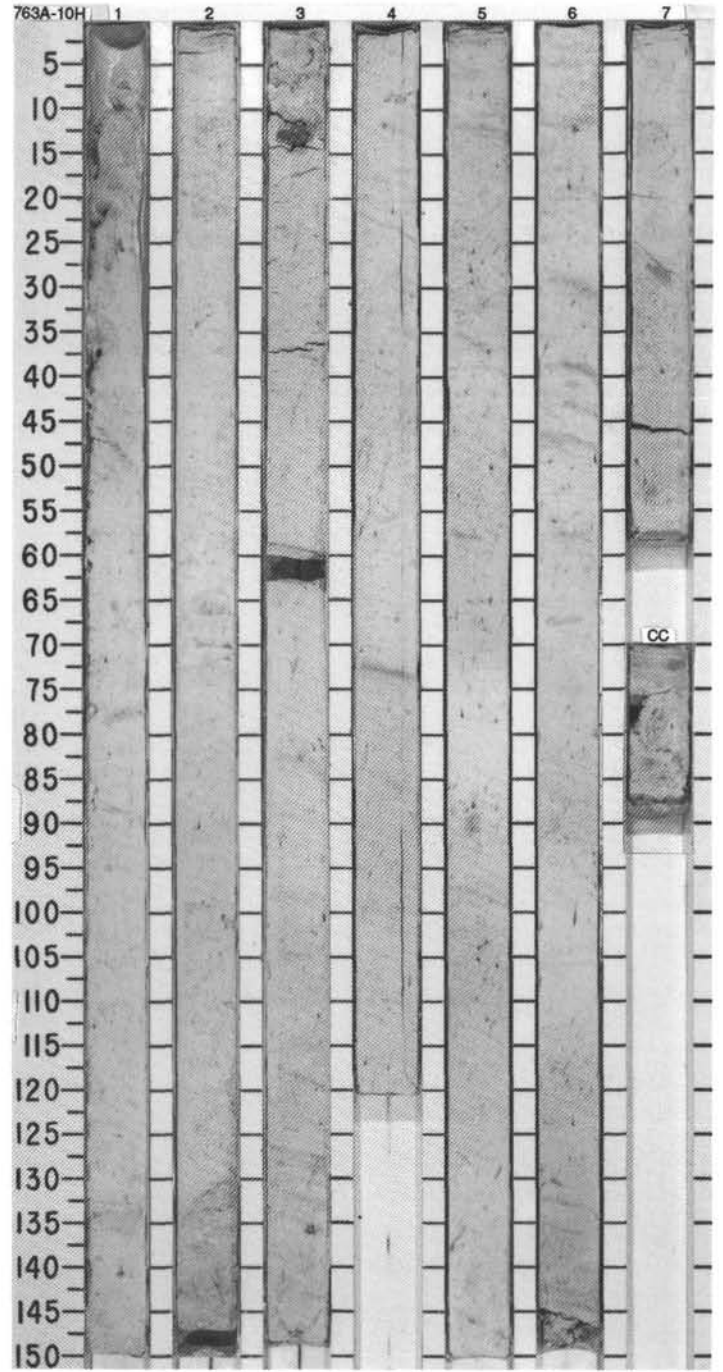
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																		
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAATOMS																																																												
LOWER PLEISTOCENE																																																																
A/G	NN19 - N20								0.5					<p>FORAMINIFER NANNOFOSSIL OOZE WITH CLAY</p> <p>Major lithology: FORAMINIFER NANNOFOSSIL OOZE with CLAY, very light gray (10Y 8/1) to white (5Y 8/1). Laminations of pale green (5G 6/2) and light gray (2.5Y 7/2) are observed throughout core, but no cyclic color pattern is present. Halo burrows, Section 2, 35 cm and 131 cm. Pale green and light gray laminations have higher clay content. Foraminifers visible on the split core surface. Minor burrowing.</p> <p>Minor lithology: Pyrite, as disseminated mottles and wisps of (N5) gray, "hydrotrillite?" observed throughout core. Gray zones also surround burrows. Disseminated pyrite is also observed infilling and replacing foraminifer tests in smear slides.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>2, 72</td> <td>3, 72</td> <td>5, 70</td> <td>7, 70</td> </tr> <tr> <td>D</td> <td>D</td> <td>M</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>—</td> <td>5</td> <td>4</td> <td>3</td> </tr> <tr> <td>Fe oxide</td> <td>1</td> <td>—</td> <td>1</td> <td>—</td> </tr> <tr> <td>Fish</td> <td>2</td> <td>1</td> <td>—</td> <td>1</td> </tr> <tr> <td>Foraminifers</td> <td>25</td> <td>25</td> <td>25</td> <td>30</td> </tr> <tr> <td>Glauconite</td> <td>1</td> <td>2</td> <td>2</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>69</td> <td>65</td> <td>65</td> <td>58</td> </tr> <tr> <td>Opalines</td> <td>—</td> <td>—</td> <td>—</td> <td>5</td> </tr> <tr> <td>Quartz</td> <td>1</td> <td>2</td> <td>3</td> <td>3</td> </tr> </table>		2, 72	3, 72	5, 70	7, 70	D	D	M	D	D	Clay	—	5	4	3	Fe oxide	1	—	1	—	Fish	2	1	—	1	Foraminifers	25	25	25	30	Glauconite	1	2	2	—	Nannofossils	69	65	65	58	Opalines	—	—	—	5	Quartz	1	2	3	3
	2, 72	3, 72	5, 70	7, 70																																																												
D	D	M	D	D																																																												
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Opalines	—	—	—	5																																																												
Quartz	1	2	3	3																																																												
A/G	NN14 - NN15								1.0																																																							
A/G	NN13								1.5																																																							
Barren									2.0																																																							
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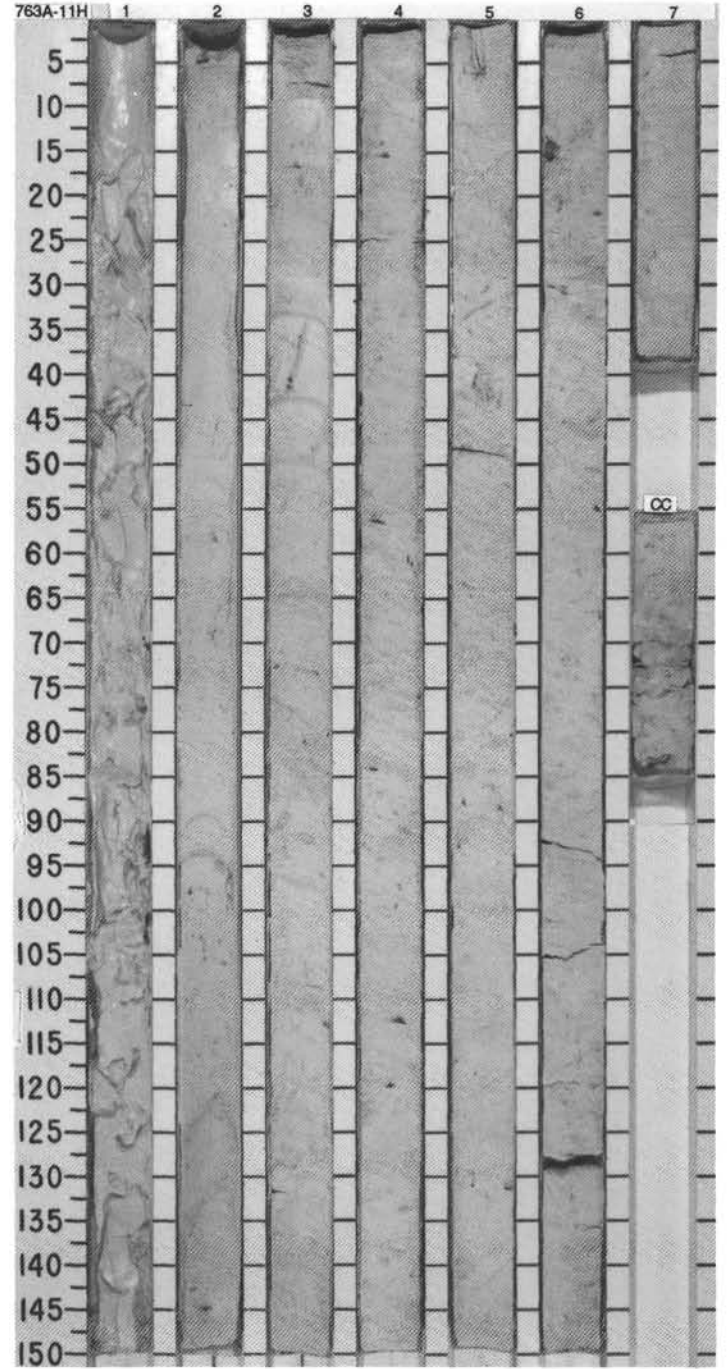
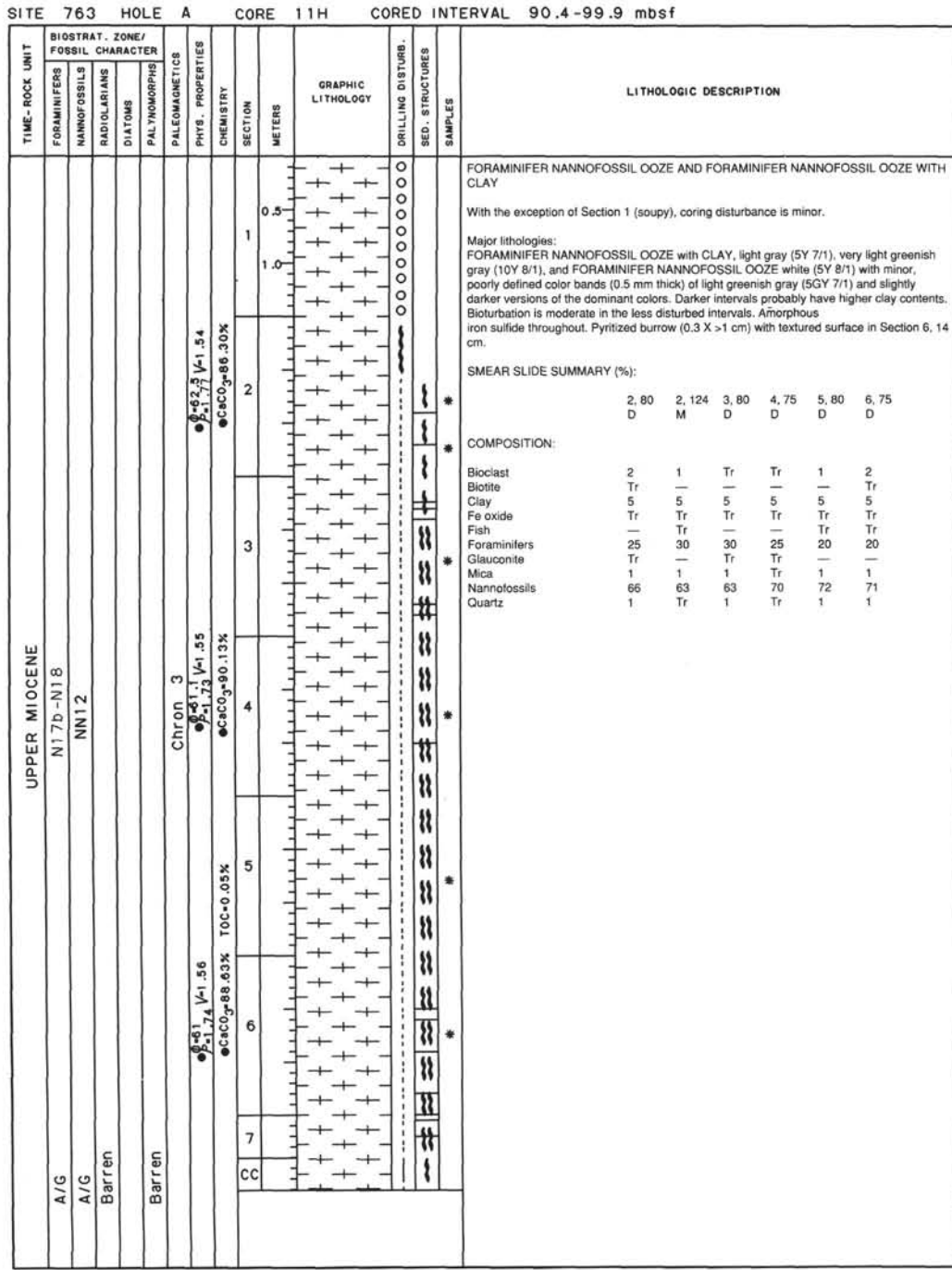




SITE 763 HOLE A CORE 10H CORED INTERVAL 80.9-90.4 mbsf

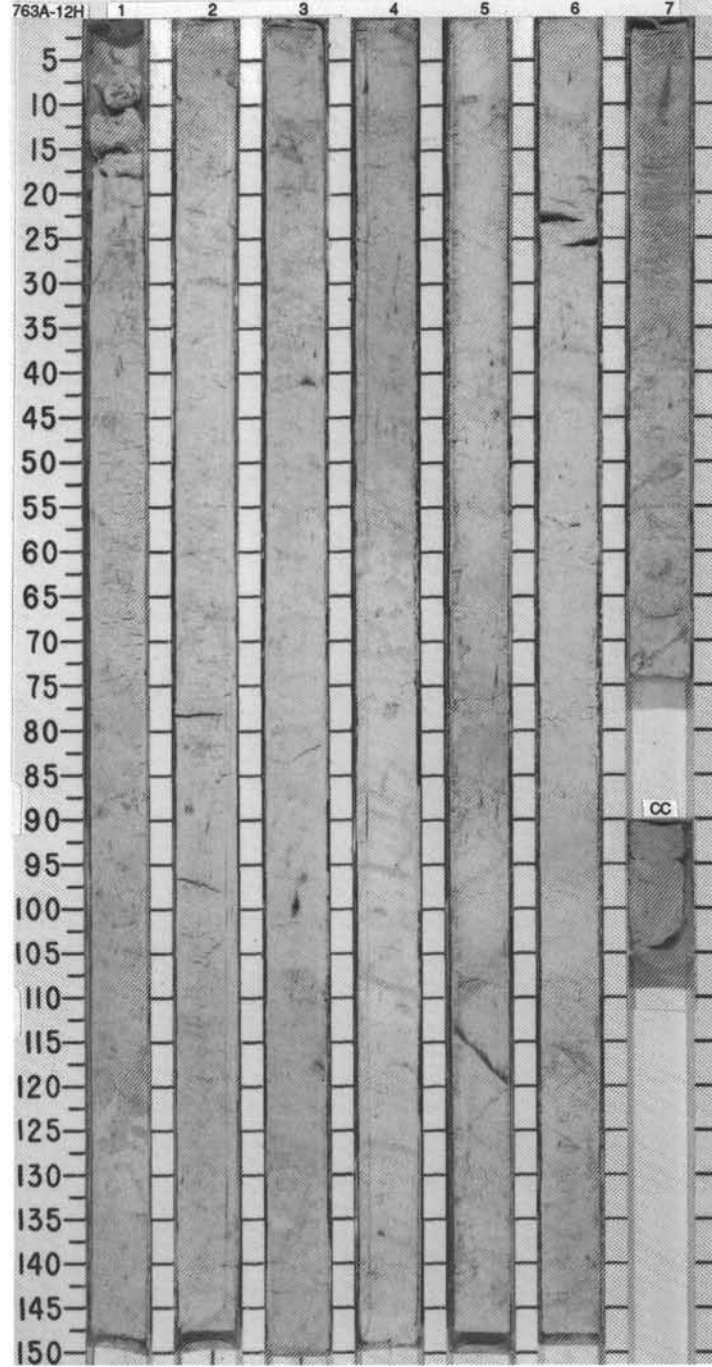
TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER				SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																											
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONAS	PALYNOMORPHS																																																																			
LOWER PLIOCENE																																																																							
N1B																																																																							
NN12																																																																							
A/G																																																																							
A/G																																																																							
Barren																																																																							
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Chron 3		Chron 2A																																																																					
		$\frac{0.02}{1.73} \sqrt{1.56}$ $\frac{0.037}{1.73} \sqrt{1.5}$																																																																					
		$\frac{0.05}{84.47\%} \sqrt{1.55}$ $\frac{0.037}{87.2\%} \sqrt{1.5}$																																																																					
		TOC=0.04%																																																																					
<p>Major lithologies:</p> <p>NANNOFOSSIL FORAMINIFER OOZE with CLAY and FORAMINIFER NANNOFOSSIL OOZE with CLAY, color banded with white (5Y 8/1), very light greenish gray (10Y 8/1), and light gray (5Y 7/1, 2.5Y 7/2) layers, and a few thin (&lt; 1 cm) pale green (5G 7/2) layers. Color bands are 20 cm-80 cm thick with white predominant from Sections 1 to Section 3, 97 cm, and very light greenish gray to light gray is predominant from Section 3, 97 cm to Section CC. Black (N2) to dark gray (N4) specks are common, scattered throughout, and a pyrite nodule (2 cm X 4 cm) containing calcareous foraminifer tests occurs in Section 3, 9-11 cm. Bioturbation and color mottling occur locally. Foraminifers range from 30% to 55% and nannofossils from 37% to 62%. Thin (&lt;1 cm thick) layers of pale green (5G 7/2) foraminifer nannofossil ooze with clay (probably with a higher clay content, occur in Section 4, 71-72 cm, with similar thin (&lt; 1 cm) light greenish gray (5GY 7/1) to pale green (5G 7/2) layers occurring in Section 1, 76 cm, 84 cm, and 146 cm; Section 2, 72 cm; Section 3, 56 cm, 118 cm, 126 cm, and 130 cm; and Section 5, 27 cm, 37 cm, and 45 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1" style="margin-left: 40px;"> <tr> <td></td> <td>1, 79</td> <td>3, 140</td> <td>4, 72</td> <td>6, 24</td> </tr> <tr> <td>D</td> <td></td> <td></td> <td>M</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1" style="margin-left: 40px;"> <tr> <td>Bioclast</td> <td>1</td> <td>1</td> <td>2</td> <td>1</td> </tr> <tr> <td>Biotite</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>5</td> <td>5</td> <td>10</td> <td>7</td> </tr> <tr> <td>Fe Oxide</td> <td>1</td> <td>Tr</td> <td>1</td> <td>1</td> </tr> <tr> <td>Fish</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Foraminifers</td> <td>30</td> <td>55</td> <td>35</td> <td>45</td> </tr> <tr> <td>Glauconite</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>—</td> <td>—</td> <td>1</td> <td>1</td> </tr> <tr> <td>Nannofossils</td> <td>62</td> <td>37</td> <td>50</td> <td>42</td> </tr> <tr> <td>Quartz</td> <td>1</td> <td>2</td> <td>1</td> <td>3</td> </tr> </table>													1, 79	3, 140	4, 72	6, 24	D			M	D	Bioclast	1	1	2	1	Biotite	—	Tr	—	—	Clay	5	5	10	7	Fe Oxide	1	Tr	1	1	Fish	Tr	Tr	Tr	Tr	Foraminifers	30	55	35	45	Glauconite	—	—	—	—	Mica	—	—	1	1	Nannofossils	62	37	50	42	Quartz	1	2	1	3
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SITE 763 HOLE A CORE 12H CORED INTERVAL 99.9-109.4 mbsf

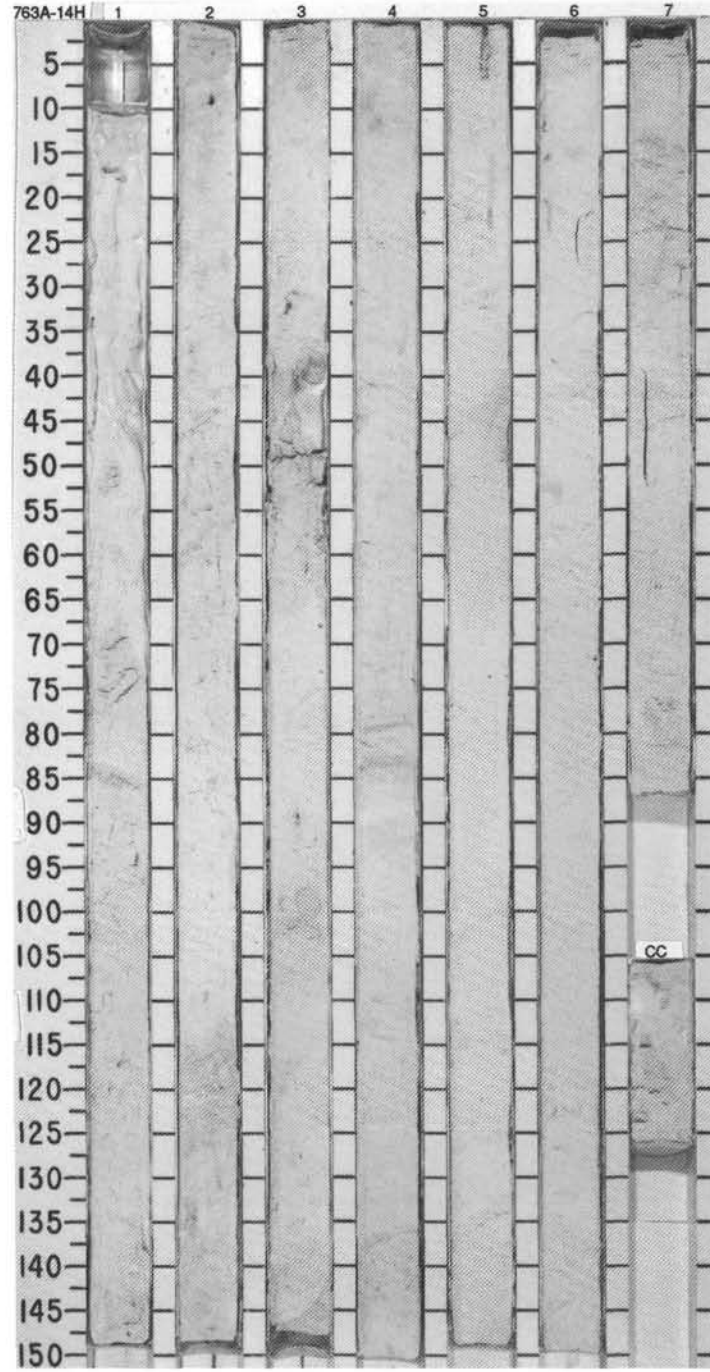
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SEC. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																														
UPPER MIOCENE								<p>NANNOFOSSIL OOZE WITH FORAMINIFERS AND NANNOFOSSIL OOZE WITH CLAY AND FORAMINIFERS</p> <p>The core is moderately to slightly disturbed by drilling.</p> <p>Major lithologies: NANNOFOSSIL OOZE with FORAMINIFERS and NANNOFOSSIL OOZE with CLAY and FORAMINIFERS, white (5Y 8/1), and mottled light gray (5Y 7/1) with light greenish gray shades (5G 7/1) and gray-light gray (N5-N6) blebs. Dark gray (N4) blebs and speckles, smeared out by wire-cutting, consist of very fine-grained iron sulfide (pyrite ?).</p> <p>Minor lithology: Clayey nannofossil ooze with foraminifers, light gray (5Y 7/1) in Sections 1, 3, 4, and 5. In Section 4, three 1 cm-thick layers are interbedded in the white nannofossil ooze with foraminifers. The boundaries between the two lithologies are gradational and mottled, by burrowing.</p> <p>* SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1.73</td> <td>2.73</td> <td>5.80</td> <td>7.40</td> </tr> <tr> <td>D</td> <td></td> <td>D</td> <td>M</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>—</td> <td>—</td> <td>30</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>20</td> <td>10</td> <td>20</td> <td>15</td> </tr> <tr> <td>Mica</td> <td>Tr</td> <td>Tr</td> <td>2</td> <td>Tr</td> </tr> <tr> <td>Nannofossils</td> <td>80</td> <td>90</td> <td>48</td> <td>85</td> </tr> </table>		1.73	2.73	5.80	7.40	D		D	M	D	Clay	—	—	30	—	Foraminifers	20	10	20	15	Mica	Tr	Tr	2	Tr	Nannofossils	80	90	48	85
	1.73	2.73	5.80	7.40																																		
D		D	M	D																																		
Clay	—	—	30	—																																		
Foraminifers	20	10	20	15																																		
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Nannofossils	80	90	48	85																																		
A/G				1																																		
A/G	NI7b			1																																		
Barren	NN11			2																																		
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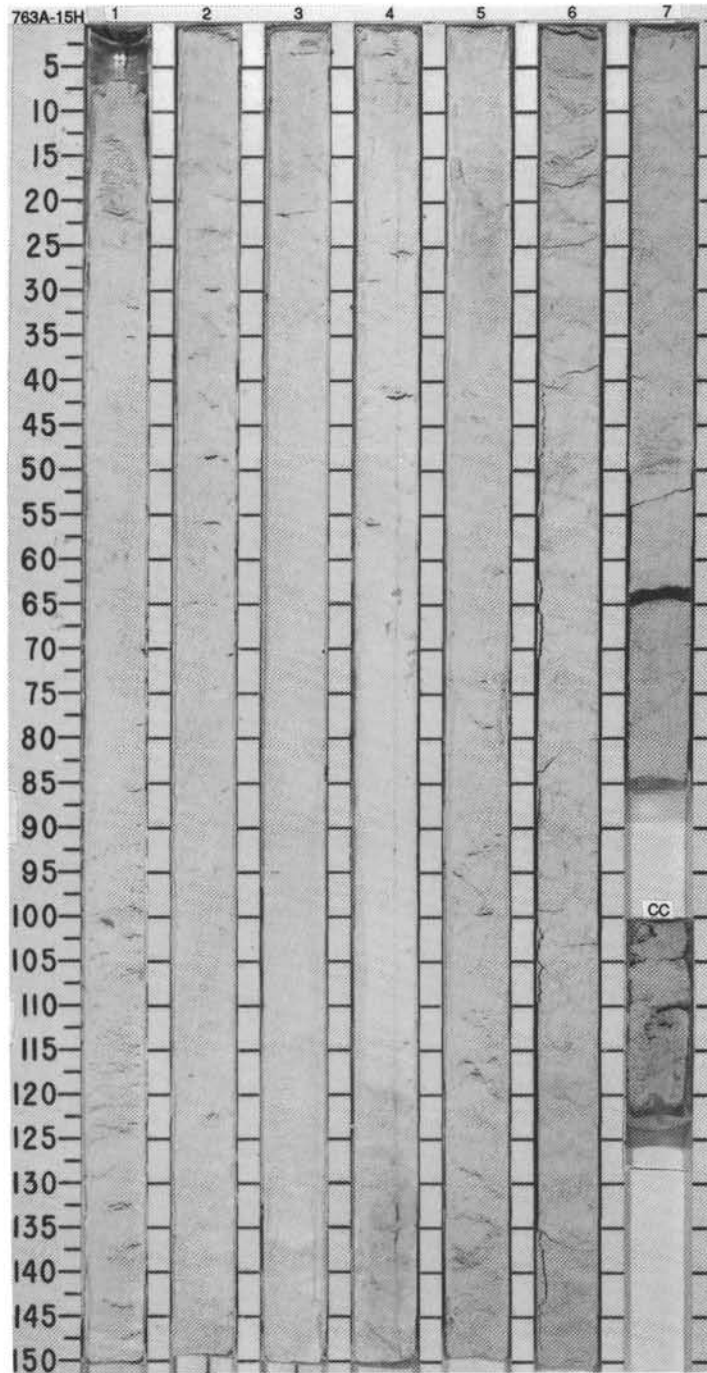


TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PHYS. PROPERTIES		SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																						
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	CHEMISTRY																																																																											
UPPER MIOCENE										<p>NANNOFOSSIL OOZE WITH FORAMINIFERS</p> <p>Major lithology: NANNOFOSSIL OOZE with FORAMINIFERS, white (N8), with minor clay and small amounts of bioclasts, quartz, mica, Fe oxide, and dolomite rhombs. Generally unbedded apart from occasional laminae or thin beds of very light greenish gray (10Y 7/2) or gray (N6, N7) colored ooze mottles and burrows of the same greenish gray and gray colors are also present. Burrows are mostly small with diameters &lt; 3 mm on the cut surface, but Section 7 contains two 6-10 cm long vertical burrows, diameter 6 mm. Several microfaults are probably related to coring activity.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1.73</td> <td>2.73</td> <td>3.73</td> <td>4.74</td> <td>5.74</td> <td>6.72</td> </tr> <tr> <td>M</td> <td></td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Bioclast</td> <td>Tr</td> <td>1</td> <td>1</td> <td>1</td> <td>Tr</td> <td>1</td> </tr> <tr> <td>Clay</td> <td>10</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> </tr> <tr> <td>Dolomite</td> <td>—</td> <td>2</td> <td>Tr</td> <td>1</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Foraminifers</td> <td>25</td> <td>20</td> <td>15</td> <td>25</td> <td>25</td> <td>15</td> </tr> <tr> <td>Mica</td> <td>3</td> <td>Tr</td> <td>Tr</td> <td>—</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Nannofossils</td> <td>61</td> <td>72</td> <td>79</td> <td>68</td> <td>70</td> <td>79</td> </tr> <tr> <td>Oxide</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Quartz</td> <td>1</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> </table>		1.73	2.73	3.73	4.74	5.74	6.72	M		D	D	D	D	D	Bioclast	Tr	1	1	1	Tr	1	Clay	10	5	5	5	5	5	Dolomite	—	2	Tr	1	Tr	Tr	Foraminifers	25	20	15	25	25	15	Mica	3	Tr	Tr	—	Tr	Tr	Nannofossils	61	72	79	68	70	79	Oxide	Tr	Tr	Tr	Tr	—	Tr	Quartz	1	—	—	—	—	—
	1.73	2.73	3.73	4.74	5.74	6.72																																																																										
M		D	D	D	D	D																																																																										
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Quartz	1	—	—	—	—	—																																																																										
A/G	N17			● $\frac{0.25}{1.74}$   $\frac{1}{1.54}$		1																																																																										
A/G	NN11			● $\frac{0.11}{1.76}$   $\frac{1}{1.55}$		2																																																																										
Barren				● $\frac{0.01}{1.74}$   $\frac{1}{1.56}$		3																																																																										
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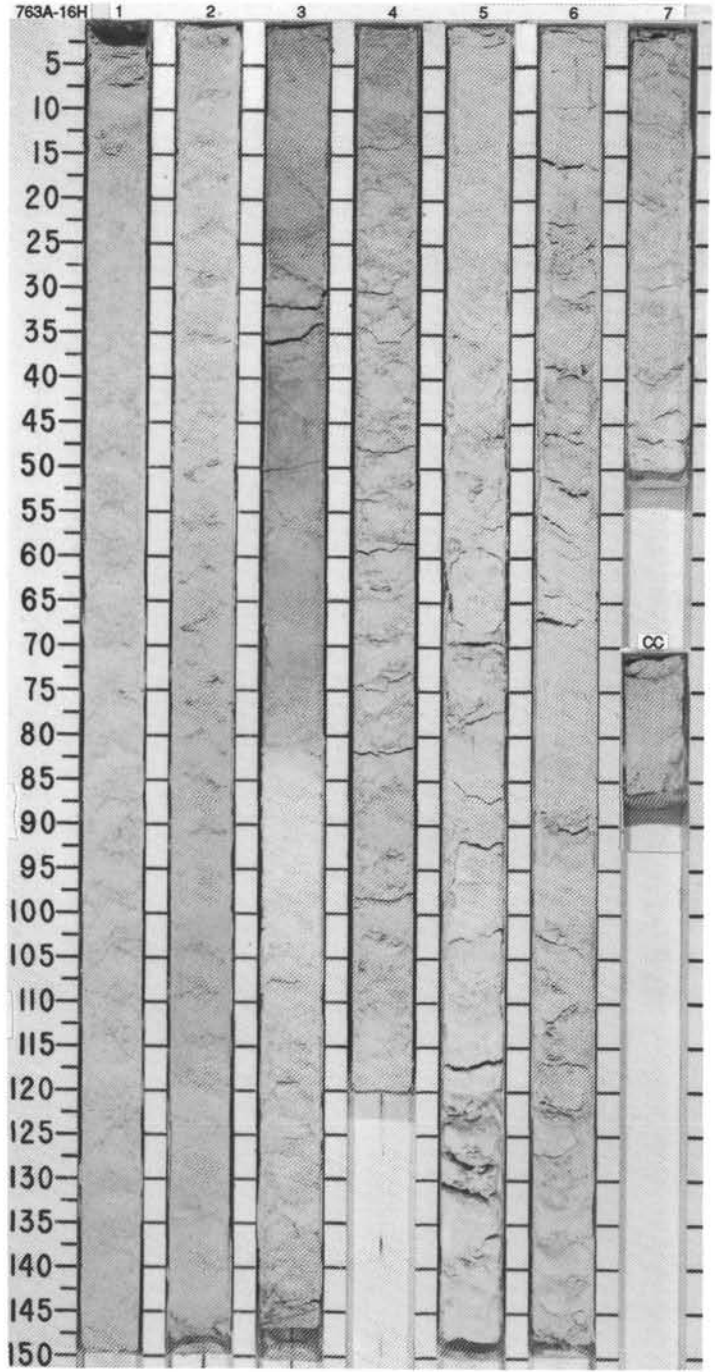
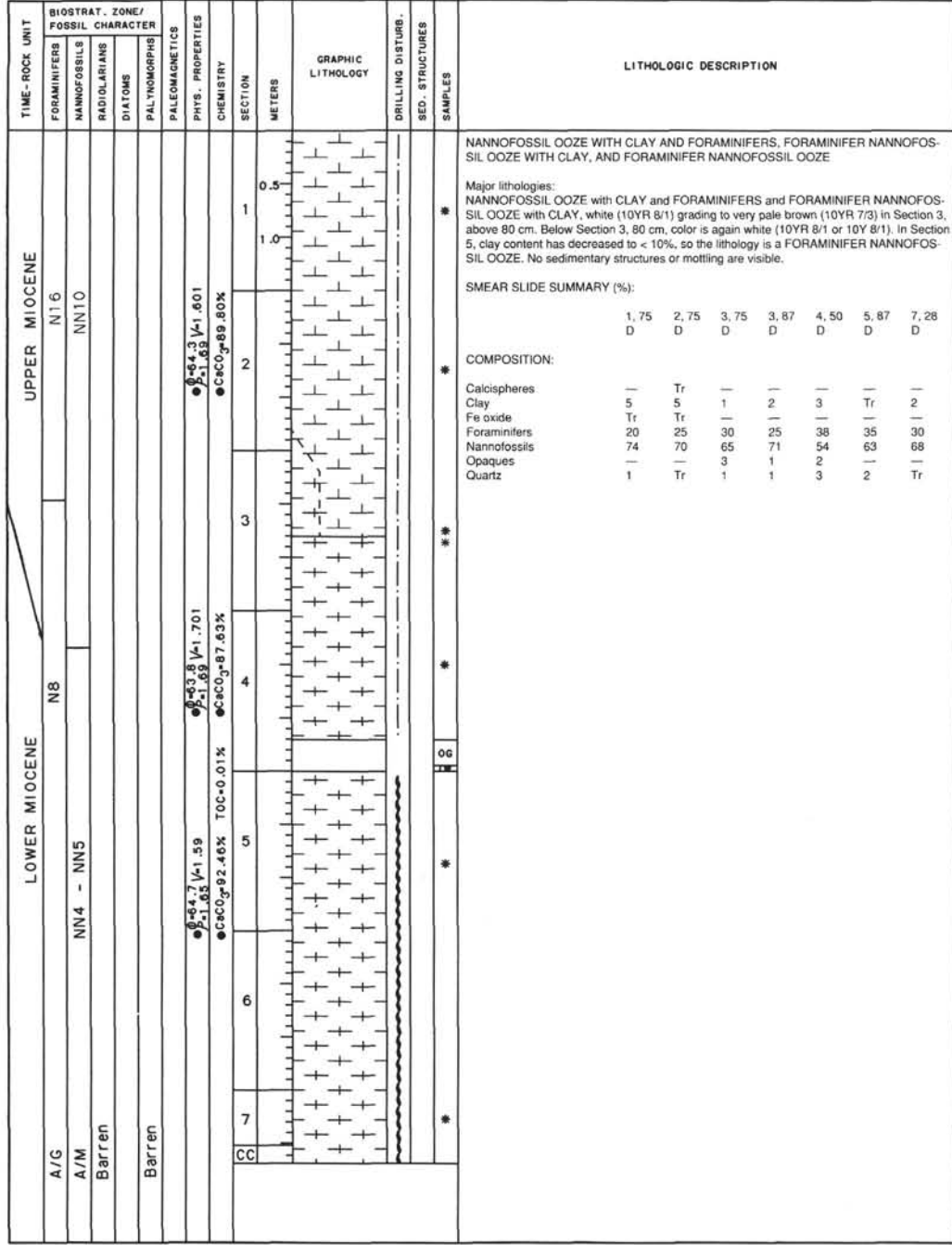




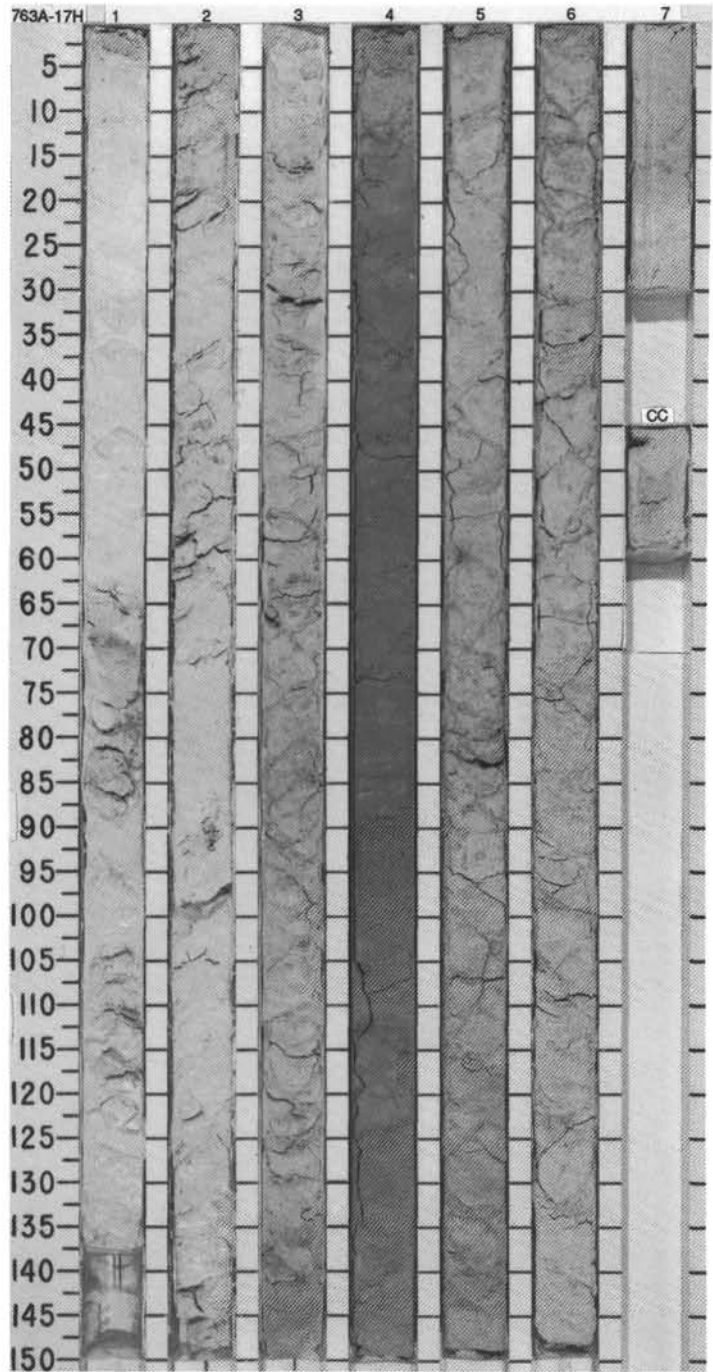
TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																															
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALYNOFOSPHS	PALEOMAGNETICS																																																																																																																							
UPPER MIOCENE																																																																																																																												
A/G	N16					0.57.9   v-1 .82	0.57.9   v-1 .82	1					FORAMINIFERAL NANNOFOSSIL OOZE AND NANNOFOSSIL OOZE WITH FORAMINIFERS  Major lithologies: NANNOFOSSIL OOZE WITH FORAMINIFERS, white (10YR 8/1), grading into and interbedded with very pale brown (10YR 8/3) FORAMINIFERAL NANNOFOSSIL OOZE. Towards the base, the content of foraminifers and clay increase as do discoasters and iron oxides, and the pale brown color darkens. Section 6 is bioturbated with abundant pyrite. The color alternation may be related to fluctuating oxidation/reduction conditions.  SMEAR SLIDE SUMMARY (%): <table border="1"> <tr> <td></td> <td>1, 70</td> <td>2, 70</td> <td>3, 70</td> <td>4, 135</td> <td>5, 20</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>M</td> <td>M</td> <td>D</td> </tr> </table> COMPOSITION: <table border="1"> <tr> <td>Accessory minerals</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Bioclast</td> <td>8</td> <td>Tr</td> <td>—</td> <td>—</td> <td>5</td> </tr> <tr> <td>Clay</td> <td>2</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Dolomite</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Fe oxide</td> <td>Tr</td> <td>—</td> <td>—</td> <td>5</td> <td>5</td> </tr> <tr> <td>Fish</td> <td>—</td> <td>—</td> <td>Tr</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>20</td> <td>25</td> <td>20</td> <td>30</td> <td>30</td> </tr> <tr> <td>Mica</td> <td>—</td> <td>2</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>69</td> <td>73</td> <td>79</td> <td>64</td> <td>60</td> </tr> <tr> <td>Opaques</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Radiolarians</td> <td>1</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Spicules</td> <td>—</td> <td>—</td> <td>1</td> <td>1</td> <td>—</td> </tr> </table> SMEAR SLIDE SUMMARY (%): <table border="1"> <tr> <td></td> <td>6, 65</td> <td>7, 75</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> COMPOSITION: <table border="1"> <tr> <td>Bioclast</td> <td>10</td> <td>—</td> </tr> <tr> <td>Fe oxide</td> <td>1</td> <td>2</td> </tr> <tr> <td>Foraminifers</td> <td>25</td> <td>40</td> </tr> <tr> <td>Nannofossils</td> <td>63</td> <td>58</td> </tr> <tr> <td>Spicules</td> <td>1</td> <td>—</td> </tr> </table>		1, 70	2, 70	3, 70	4, 135	5, 20	D	D	D	M	M	D	Accessory minerals	—	—	—	—	—	Bioclast	8	Tr	—	—	5	Clay	2	—	—	—	—	Dolomite	—	—	—	—	—	Fe oxide	Tr	—	—	5	5	Fish	—	—	Tr	Tr	—	Foraminifers	20	25	20	30	30	Mica	—	2	—	—	—	Nannofossils	69	73	79	64	60	Opaques	Tr	—	—	—	—	Quartz	—	—	—	—	—	Radiolarians	1	—	—	—	—	Spicules	—	—	1	1	—		6, 65	7, 75	D	D	D	Bioclast	10	—	Fe oxide	1	2	Foraminifers	25	40	Nannofossils	63	58	Spicules	1	—
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A/G	NN10					0.58.3   v-1 .82	0.58.3   v-1 .82	2																																																																																																																				
Barrren						0.59.9   v-1 .82	0.59.9   v-1 .82	3																																																																																																																				
Barrren						0.60.7   v-1 .83	0.60.7   v-1 .83	4																																																																																																																				
						0.61.7   v-1 .83	0.61.7   v-1 .83	5																																																																																																																				
						0.62.7   v-1 .83	0.62.7   v-1 .83	6																																																																																																																				
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SITE 763 HOLE A CORE 16H CORED INTERVAL 137.9-147.4 mbsf

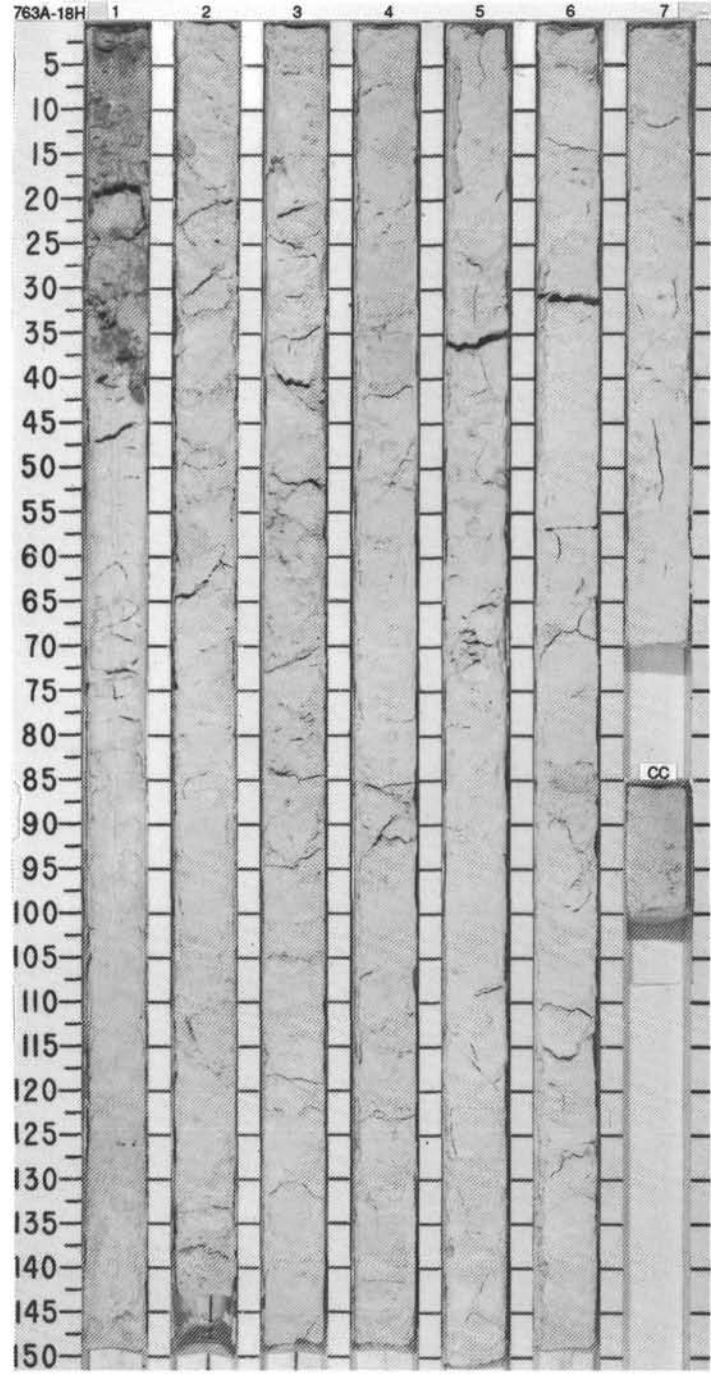


TIME - ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER	PHYS. PROPERTIES		SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	NANNOFOSSILS		RADIOLARIANS	DIAZONES							
LOWER MIOCENE											
A/G	N4 -N8	NN4/5									
A/M	NN3										
Barren	NN1/2										
Barren											
			• $\phi=61.3$ V=1.623	• $\phi=58.2$ V=1.68							
			• $\phi=51.6$ V=1.86	• $\phi=51.74$ V=1.74							
					•CaCO <sub>3</sub> =89.35%						
					•CaCO <sub>3</sub> =82.47%		TOC=0.0%				
					• $\phi=62.9$ V=1.65						
					• $\phi=51.6$ V=1.86						
					•CaCO <sub>3</sub> =82.47%						



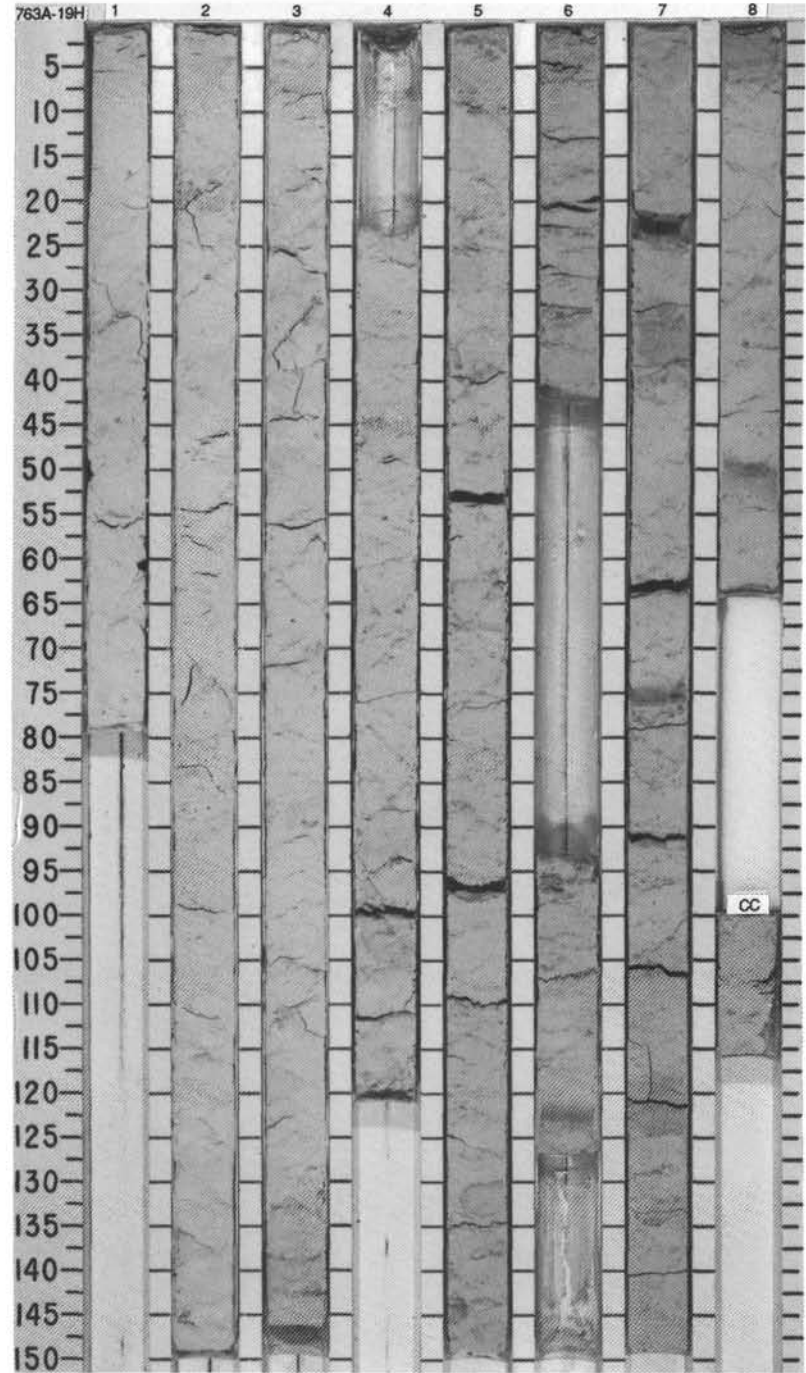
SITE 763 HOLE A CORE 18H CORED INTERVAL 156.9-166.4 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																										
FORMINIFERS	NANNOFOSSILS	RADOLARIANS	DIATOMS									PALEOMAGNETICS																																									
UPPER OLIGOCENE																																																					
A/G	P21 - P22	N4	NN1 - NN2			1					<p>FORAMINIFER NANNOFOSSIL OOZE/CHALK WITH CLAY</p> <p>* Major lithology: FORAMINIFER NANNOFOSSIL OOZE/CHALK with CLAY, white (7.5YR 8/0). Very light greenish gray (10Y 8/1-2) is partly dominant color in Section 2; Section 3, 0-108 cm; and Section 4, 25-42 cm. Structureless.</p> <p>Minor lithologies:</p> <p>a. Clayey foraminifer nannofossil ooze/chalk, light reddish brown (5YR 6/4), as pieces and fragments in Section 1, 0-45 cm, probably derived from Core 122-763A-17H.</p> <p>b. Pyrite as grains and small nodules, in Section 6, 80-83 cm, and Section 7, 45-76 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 36</td> <td>1, 125</td> <td>3, 10</td> <td>5, 75</td> <td>7, 32</td> </tr> <tr> <td></td> <td>M</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>1</td> <td>2</td> <td>1</td> <td>2</td> <td>4</td> </tr> <tr> <td>Foraminifers</td> <td>25</td> <td>30</td> <td>30</td> <td>30</td> <td>30</td> </tr> <tr> <td>Nannofossils</td> <td>70</td> <td>66</td> <td>67</td> <td>64</td> <td>62</td> </tr> <tr> <td>Quartz</td> <td>4</td> <td>2</td> <td>2</td> <td>3</td> <td>4</td> </tr> <tr> <td>Spicules</td> <td>Tr</td> <td>—</td> <td>—</td> <td>1</td> <td>Tr</td> </tr> </table>		1, 36	1, 125	3, 10	5, 75	7, 32		M	D	D	D	D	Clay	1	2	1	2	4	Foraminifers	25	30	30	30	30	Nannofossils	70	66	67	64	62	Quartz	4	2	2	3	4	Spicules	Tr	—	—	1	Tr
	1, 36	1, 125	3, 10	5, 75	7, 32																																																
	M	D	D	D	D																																																
Clay	1	2	1	2	4																																																
Foraminifers	25	30	30	30	30																																																
Nannofossils	70	66	67	64	62																																																
Quartz	4	2	2	3	4																																																
Spicules	Tr	—	—	1	Tr																																																
A/M	NP25					2																																															
Barren						3																																															
Barren						4																																															
						5																																															
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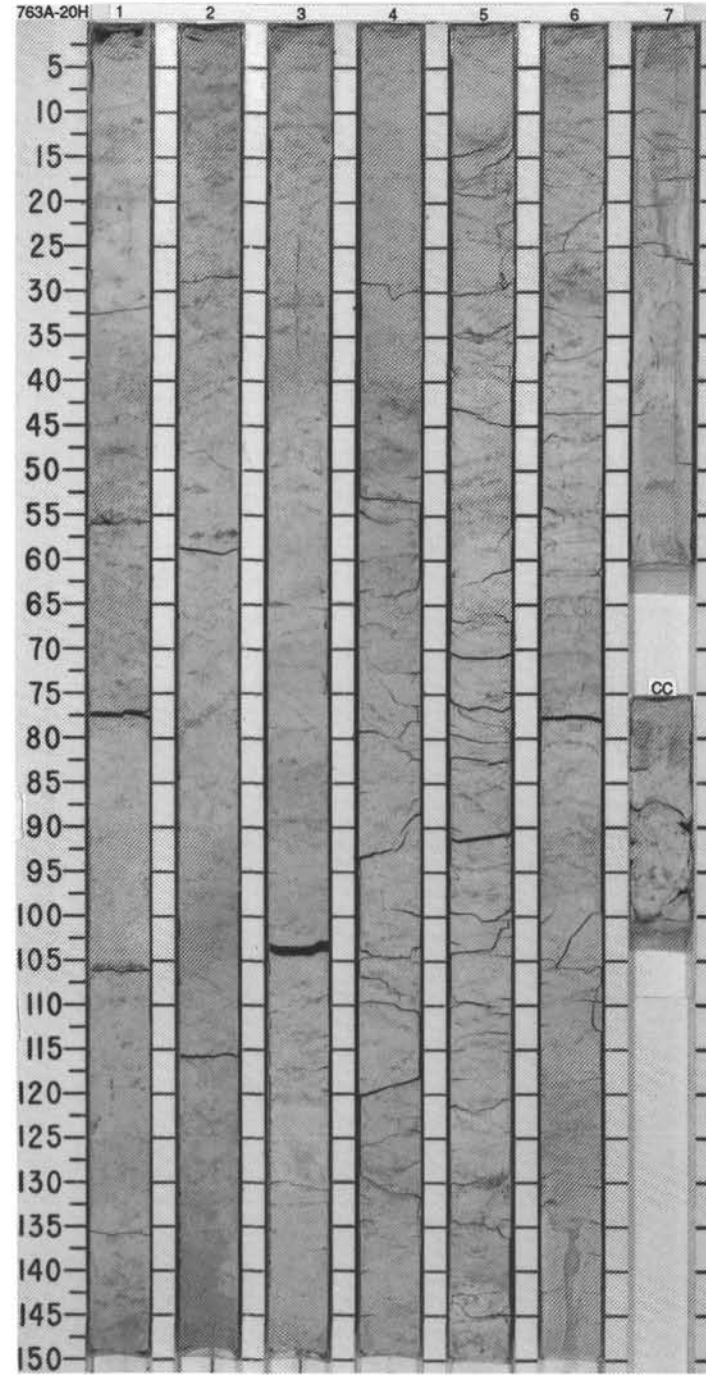
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																														
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																						
LOWER OLIGOCENE	A/G	P21					0.5					<p>FORAMINIFER NANNOFOSSIL OOZE/CHALK WITH CLAY</p> <p>* Major lithology: FORAMINIFER NANNOFOSSIL OOZE/CHALK with CLAY, white (5Y 8/1), alternating with thinly laminated gray (N6) FORAMINIFER NANNOFOSSIL OOZE/CHALK with CLAY which contain a higher percentage of clay and disseminated pyrite? (marcasite?). Gray layers are 1 to 8 cm thick. Most boundaries between thin gray layers and white layers are gradational. Distinct boundaries occur in Section 5, 62-68 cm; Section 6, 122-124 cm; Section 7, 74-76 cm, 118-122 cm; Section 8, 48-52 cm. Possible color cycles, 30-50 cm thick in 3, 5, 7, and 8.</p> <p>Minor lithology: White foraminifer nannofossil ooze/chalk with quartz, white (5Y 8/1), in Section 8, 5-47 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 44</td> <td>3, 68</td> <td>4, 55</td> <td>7, 77</td> <td>8, 36</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>M</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>3</td> <td>2</td> <td>2</td> <td>3</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>35</td> <td>30</td> <td>35</td> <td>35</td> <td>35</td> </tr> <tr> <td>Nannofossils</td> <td>60</td> <td>65</td> <td>60</td> <td>57</td> <td>55</td> </tr> </table>		1, 44	3, 68	4, 55	7, 77	8, 36	D	D	D	D	M	D	Clay	3	2	2	3	—	Foraminifers	35	30	35	35	35	Nannofossils	60	65	60	57	55
		1, 44	3, 68	4, 55	7, 77	8, 36																																				
	D	D	D	D	M	D																																				
	Clay	3	2	2	3	—																																				
	Foraminifers	35	30	35	35	35																																				
	Nannofossils	60	65	60	57	55																																				
	A/M NP23	NP24					1.0	VOID																																		
	Barren						2																																			
							3																																			
							4	VOID																																		
						5																																				
						6	VOID																																			
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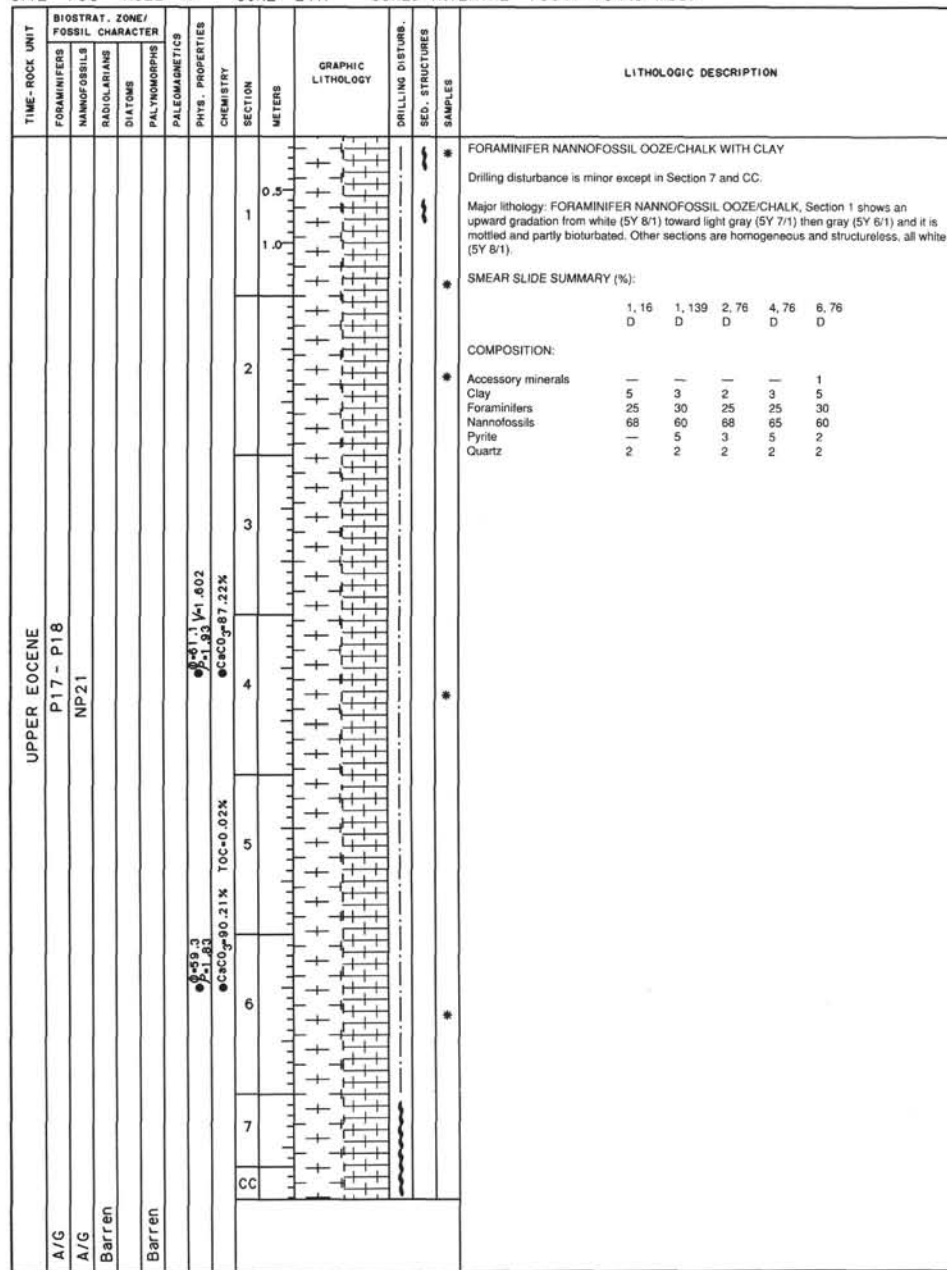




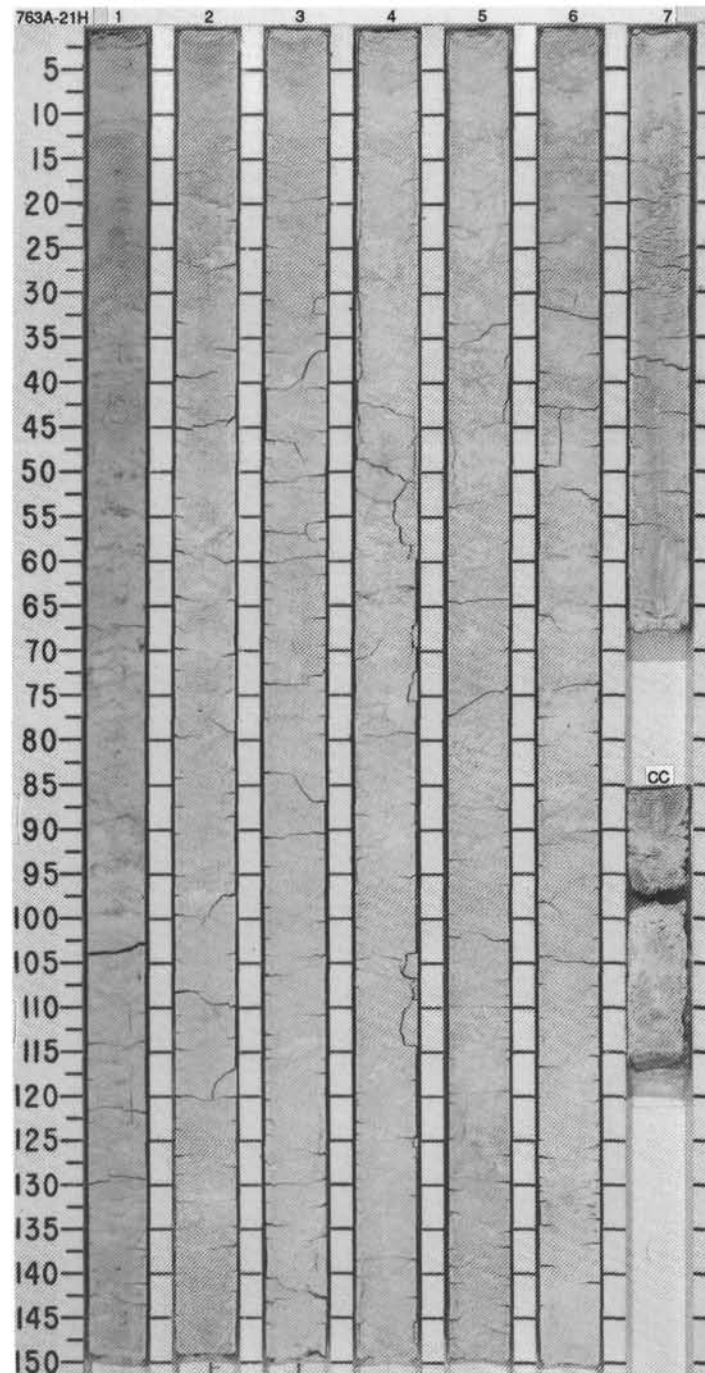
SITE 763 HOLE A CORE 20H CORED INTERVAL 175.9-185.4 mbsf

TIME-ROCK UNIT				SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES SAMPLES	LITHOLOGIC DESCRIPTION																																	
BIOSTRAT. ZONE/ FOSSIL CHARACTER																																								
FORAMINIFERS	MANNOFOSSILS	RADIOLARIANS	DIATOMS																																					
PALYNOFORMS																																								
PHYS. PROPERTIES CHEMISTRY				PHYS. PROPERTIES CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	LITHOLOGIC DESCRIPTION																																	
LOWER OLIGOCENE																																								
P18																																								
NP22																																								
NP23				1	0.5		<p>NANNOFOSSIL OOZE/CHALK WITH FORAMINIFERS WITH CLAY</p> <p>Major lithology: NANNOFOSSIL OOZE/CHALK WITH CLAY, alternation of white (5Y 8/1) and light greenish gray (10Y 7/2) in an interval of 10-140 cm. Moderately mottled by bioturbation. Pale yellow (5Y 7/3) laminations are present in Section 1, 11 cm and Section 6, 55-75 cm. Cyclic color change is gradational throughout the core.</p> <p>Minor lithologies:</p> <p>a. Foraminifer nannofossil ooze/chalk with clay, light greenish gray (10Y 7/2), is observed in Section 3, 92-135 cm, lithologic contacts are gradational</p> <p>b. Pyrite, very dark gray (5Y 3/1), grains and nodules (up to 4 mm in diameter) are scattered throughout the core, e.g. in Section 1, 106 cm, and Section 2, 56 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td>1, 68</td> <td>2, 59</td> <td>3, 125</td> <td>6, 53</td> </tr> <tr> <td>D</td> <td>M</td> <td>M</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>4</td> <td>2</td> <td>5</td> <td>2</td> </tr> <tr> <td>Foraminifers</td> <td>10</td> <td>20</td> <td>25</td> <td>15</td> </tr> <tr> <td>Nannofossils</td> <td>85</td> <td>63</td> <td>67</td> <td>83</td> </tr> <tr> <td>Pyrite</td> <td>-</td> <td>15</td> <td>3</td> <td>-</td> </tr> <tr> <td>Quartz</td> <td>1</td> <td>Tr</td> <td>-</td> <td>Tr</td> </tr> </table>	1, 68	2, 59	3, 125	6, 53	D	M	M	D	Clay	4	2	5	2	Foraminifers	10	20	25	15	Nannofossils	85	63	67	83	Pyrite	-	15	3	-	Quartz	1	Tr	-	Tr
1, 68	2, 59	3, 125	6, 53																																					
D	M	M	D																																					
Clay	4	2	5	2																																				
Foraminifers	10	20	25	15																																				
Nannofossils	85	63	67	83																																				
Pyrite	-	15	3	-																																				
Quartz	1	Tr	-	Tr																																				
A/G	P18	0-0.8   v=1.59 5-1.72		2	1.0																																			
A/G	NP22	0-0.8   v=1.62 5-1.81		3																																				
Barren	NP23	0-0.8   v=1.81 5-2.13	TOC=0.13%	4																																				
Barren		0-0.8   v=1.81 5-2.22	TOC=0.22%	5																																				
		0-0.8   v=1.81 5-2.22		6																																				
		0-0.8   v=1.81 5-2.22		7																																				
				CC																																				



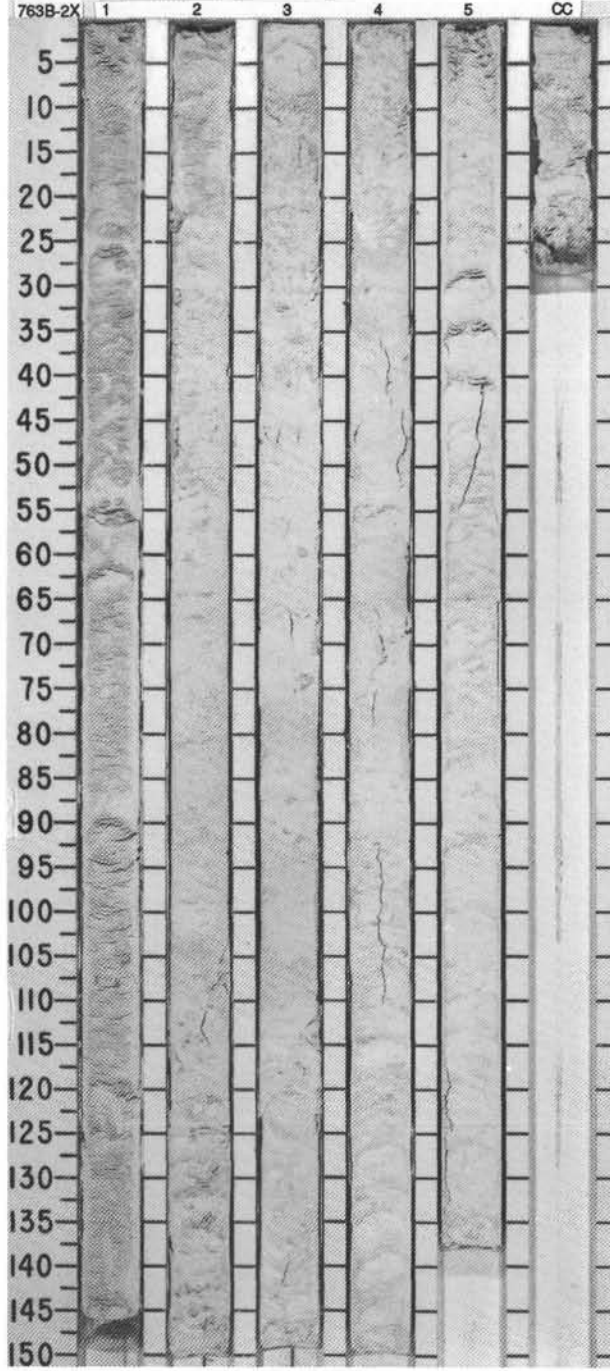


CORE 763B-1C NO RECOVERY



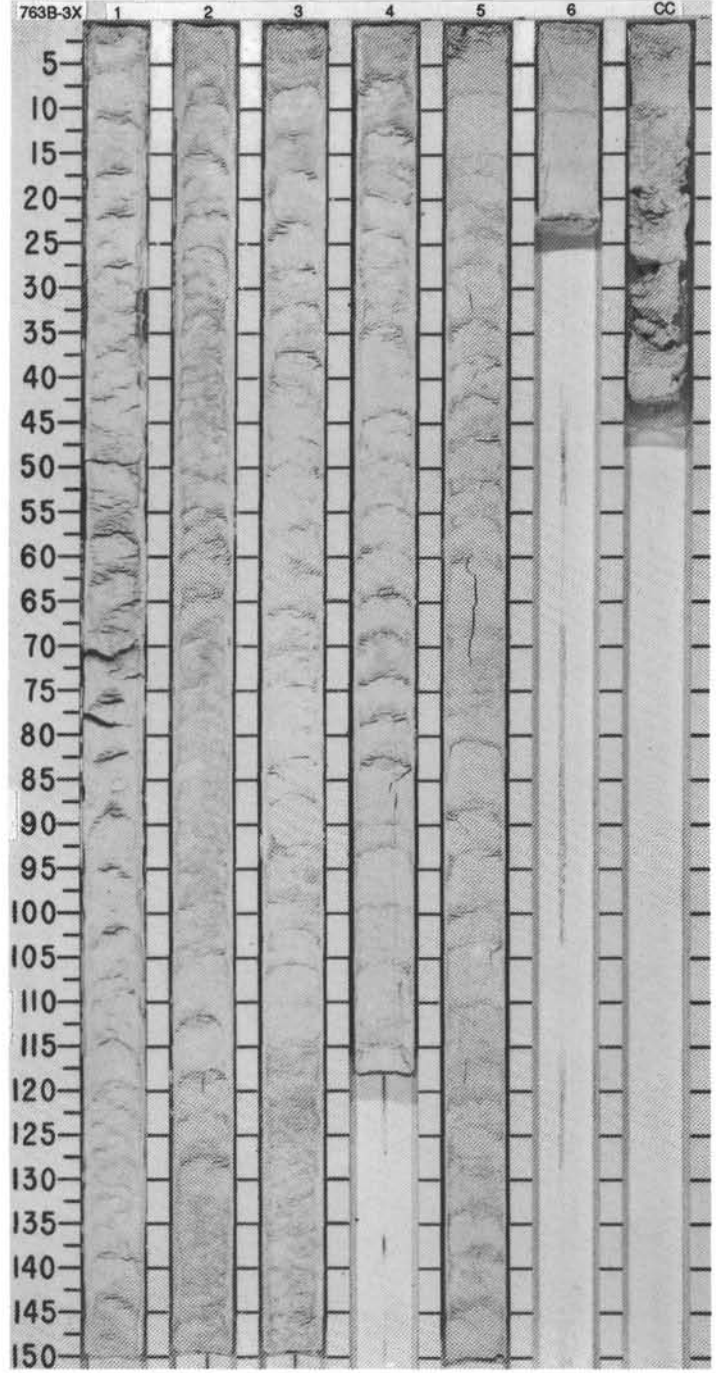
SITE 763 HOLE B CORE 2X CORED INTERVAL 190.0-199.5 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																
FORAMINIFERS	NANNOFOSSILS																																							
UPPER EOCENE								<p>NANNOFOSSIL OOZE/CHALK WITH FORAMINIFERS AND NANNOFOSSIL OOZE/CHALK</p> <p>Major lithologies:</p> <p>NANNOFOSSIL OOZE/CHALK with FORAMINIFERS and NANNOFOSSIL OOZE/CHALK, white (10YR 8/1), homogeneous. The upper section is slightly more foram-rich (10% versus 5% at base). There is little sign of bioturbation or sedimentary structures. Several sections have minor amorphous iron sulfide "smears".</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 93</td> <td>3, 92</td> <td>5, 92</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Foraminifers</td> <td>10</td> <td>10</td> <td>5</td> </tr> <tr> <td>Nannofossils</td> <td>86</td> <td>85</td> <td>91</td> </tr> <tr> <td>Ostracod</td> <td>—</td> <td>—</td> <td>1</td> </tr> <tr> <td>Quartz</td> <td>—</td> <td>1</td> <td>2</td> </tr> <tr> <td>Shell debris</td> <td>—</td> <td>—</td> <td>1</td> </tr> <tr> <td>Spicules</td> <td>4</td> <td>4</td> <td>—</td> </tr> </table>		1, 93	3, 92	5, 92	D	D	D	D	Foraminifers	10	10	5	Nannofossils	86	85	91	Ostracod	—	—	1	Quartz	—	1	2	Shell debris	—	—	1	Spicules	4	4	—
	1, 93	3, 92	5, 92																																					
D	D	D	D																																					
Foraminifers	10	10	5																																					
Nannofossils	86	85	91																																					
Ostracod	—	—	1																																					
Quartz	—	1	2																																					
Shell debris	—	—	1																																					
Spicules	4	4	—																																					
A/G	P17-P18	NP 21	1	0.5																																				
A/M	NP 20		2	1.0																																				
Barren			3																																					
Barren			4																																					
			5																																					
			CC																																					



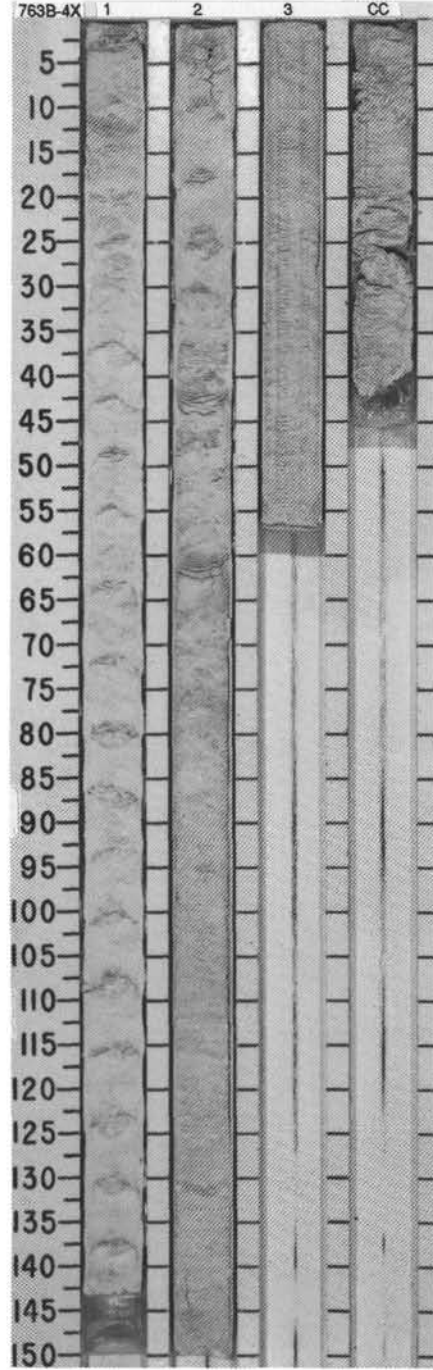
SITE 763 HOLE B CORE 3X CORED INTERVAL 199.5-209.0 mbsf

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																																			
UPPER EOCENE																																						
A/G	P16 - P17												NANNOFOSSIL OOZE/CHALK WITH CLAY The core is slightly disturbed by drilling. Major lithology: NANNOFOSSIL OOZE/CHALK, white (10Y 8/1), homogeneous, structureless. Foraminifers are present in trace amounts, up to 1%. Mica is present in trace amounts. SMEAR SLIDE SUMMARY (%): <table border="1"> <tr> <td></td> <td>1, 86</td> <td>2, 86</td> <td>3, 86</td> <td>4, 86</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> COMPOSITION: <table border="1"> <tr> <td>Foraminifers</td> <td>1</td> <td>Tr</td> <td>1</td> <td>2</td> </tr> <tr> <td>Mica</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>99</td> <td>100</td> <td>99</td> <td>98</td> </tr> </table>		1, 86	2, 86	3, 86	4, 86	D	D	D	D	D	Foraminifers	1	Tr	1	2	Mica	Tr	Tr	Tr	—	Nannofossils	99	100	99	98
	1, 86	2, 86	3, 86	4, 86																																		
D	D	D	D	D																																		
Foraminifers	1	Tr	1	2																																		
Mica	Tr	Tr	Tr	—																																		
Nannofossils	99	100	99	98																																		
A/G	NP20																																					
Barren																																						
Barren																																						
					$\phi = 58.6$ V=1.57 $\rho = 2.178$ $\bullet \text{CaCO}_3 = 86.4\%$		1	0.5				*																										
					$\phi = 58.0$ V=1.57 $\rho = 2.177$ $\bullet \text{CaCO}_3 = 87.8\%$	TOC=0.0%	2	1.0					*																									
							3						*																									
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							5																															
							6																															
							CC																															



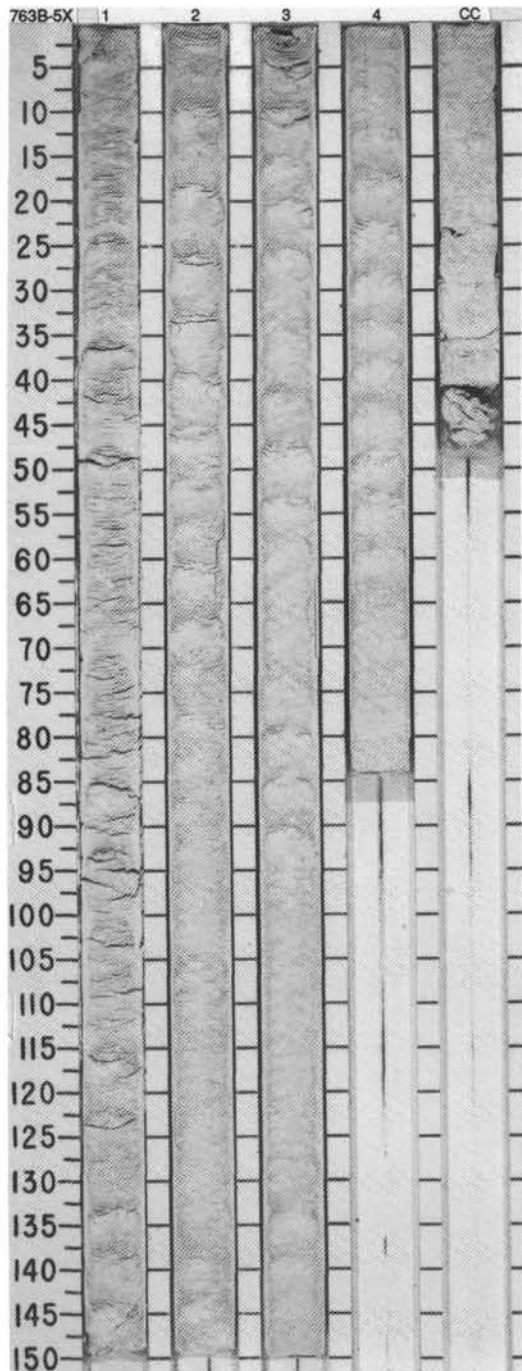
SITE 763 HOLE B CORE 4X CORED INTERVAL 209.0-218.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONIS																																						
UPPER EOCENE																																										
A/G	P15 - P16																																									
A/G	NP19 - NP20																																									
	Barren																																									
	Barren																																									
					$\frac{0.58.9}{1.77}$ ● $\frac{0.58.1}{1.80}$ ● $\frac{1}{1.57}$ ● $\frac{1}{1.56}$ ● $\frac{1}{1.77}$ ● $\frac{1}{1.80}$ ● CaCO <sub>3</sub> =88.8% TOC=0.02% ● CaCO <sub>3</sub> =87.7% ●																																					
										NANNOFOSSIL OOZE/CHALK WITH CLAY  Drilling disturbance is strong (disculted) in the upper half of the core, and moderate in the lower half.  Major lithology: NANNOFOSSIL OOZE/CHALK, very light greenish gray (10Y 8/1). Homogeneous, structureless except for some very diffuse laminations in the lower part of Section 2. About 3-5% foraminifers, ostracods are present (2%, Section 1).  SMEAR SLIDE SUMMARY (%):  <table style="margin-left: 20px;"> <tr> <td></td> <td>1, 91</td> <td>2, 90</td> <td>3, 33</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> COMPOSITION:  <table style="margin-left: 20px;"> <tr> <td>Clay</td> <td>Tr</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>5</td> <td>3</td> <td>5</td> </tr> <tr> <td>Nannofossils</td> <td>93</td> <td>95</td> <td>95</td> </tr> <tr> <td>Opaques</td> <td>—</td> <td>2</td> <td>—</td> </tr> <tr> <td>Ostracod</td> <td>2</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Quartz</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> </table>		1, 91	2, 90	3, 33	D	D	D	D	Clay	Tr	Tr	—	Foraminifers	5	3	5	Nannofossils	93	95	95	Opaques	—	2	—	Ostracod	2	—	Tr	Quartz	—	—	Tr
	1, 91	2, 90	3, 33																																							
D	D	D	D																																							
Clay	Tr	Tr	—																																							
Foraminifers	5	3	5																																							
Nannofossils	93	95	95																																							
Opaques	—	2	—																																							
Ostracod	2	—	Tr																																							
Quartz	—	—	Tr																																							



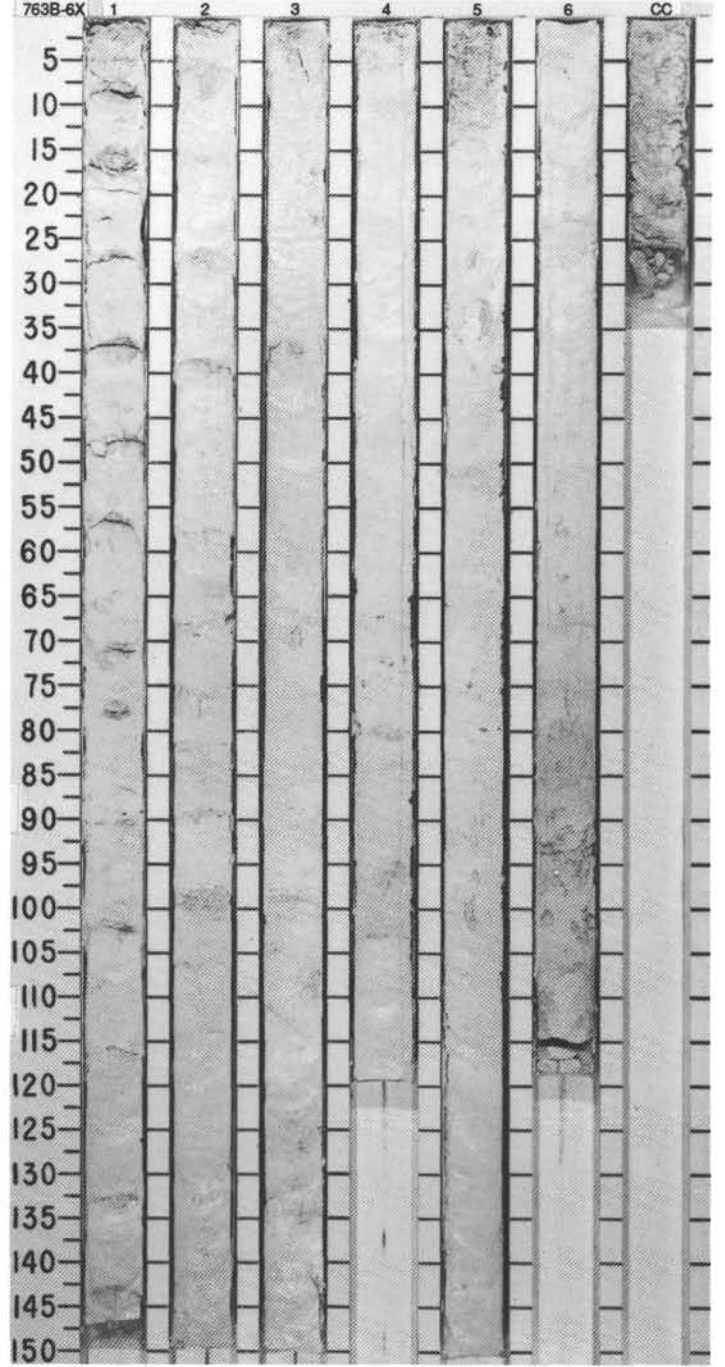


TIME - ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																														
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALYNOFORMS																																					
UPPER EOCENE												<p>NANNOFOSSIL OOZE/CHALK WITH CLAY</p> <p>The core is slightly disturbed by drilling.</p> <p>Major lithology: NANNOFOSSIL OOZE/CHALK with CLAY, homogeneous white (5Y 8/1), structureless. A few layers of stiff ooze are present in Section 4 and CC. Foraminifers are present in amounts of 1-3%. Mica is present in trace amounts to 1%.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 78</td> <td>2, 78</td> <td>3, 78</td> <td>CC, 30</td> </tr> <tr> <td>D</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Foraminifers</td> <td>3</td> <td>1</td> <td>1</td> <td>2</td> </tr> <tr> <td>Mica</td> <td>—</td> <td>1</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Nannofossils</td> <td>97</td> <td>98</td> <td>98</td> <td>98</td> </tr> <tr> <td>Quartz</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> </table>		1, 78	2, 78	3, 78	CC, 30	D					Foraminifers	3	1	1	2	Mica	—	1	1	Tr	Nannofossils	97	98	98	98	Quartz	—	—	—	Tr
	1, 78	2, 78	3, 78	CC, 30																																						
D																																										
Foraminifers	3	1	1	2																																						
Mica	—	1	1	Tr																																						
Nannofossils	97	98	98	98																																						
Quartz	—	—	—	Tr																																						
A/G	P14 - P15					1	0.5				*																															
A/M	NP18					2	1.0				*																															
Barren						3					*																															
Barren						4					*																															
						CC					*																															

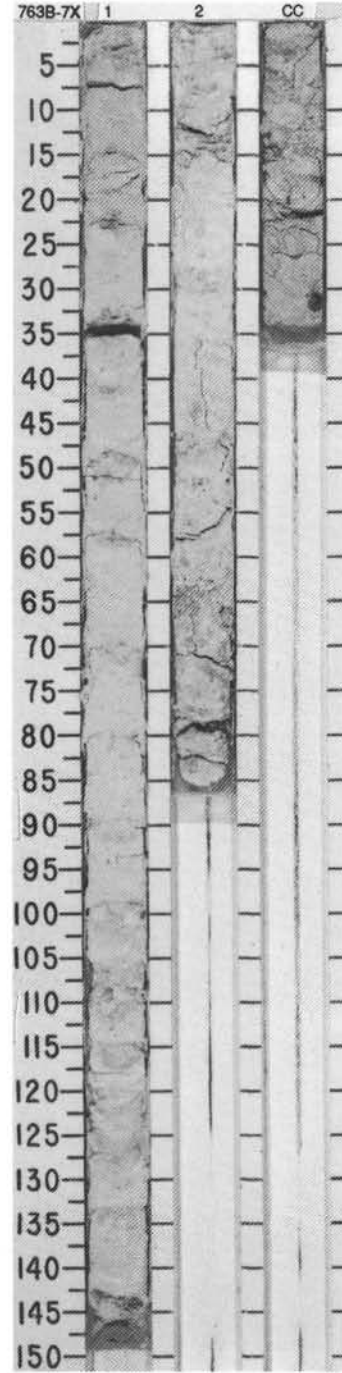


SITE 763 HOLE B CORE 6X CORED INTERVAL 228.0-237.5 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER				SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																														
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONIS	PALYNOMORPHS	PALEOMAGNETICS								PHYS. PROPERTIES	CHEMISTRY																												
MIDDLE EOCENE																																										
A/G	P12				1	0.5 1.0	[Lithology diagram]	[Disturbance diagram]	[Structures diagram]	[Samples diagram]	* * *	NANNOFOSSIL CHALK WITH CLAY  Coring disturbance is minor.  Major lithology: NANNOFOSSIL CHALK with CLAY, homogeneous white (5Y 8/1), alternating hard and soft layers, otherwise structureless. In Section 1 and 2, 10 cm-thick layers of hard and soft sediment alternate regularly. In Section 3, it is dominantly hard (80%). In Section 4 through CC about 50-60% of the sediments are hard, but the alternation is less regular than in Sections 1 and 2. Foraminifers are present in amounts of 4-10%. Mica is present in trace amounts to 1%.  SMEAR SLIDE SUMMARY (%): <table border="1"> <tr> <td></td> <td>1, 88</td> <td>2, 69</td> <td>4, 67</td> <td>5, 80</td> </tr> <tr> <td>D</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> COMPOSITION: <table border="1"> <tr> <td>Foraminifers</td> <td>10</td> <td>8</td> <td>5</td> <td>4</td> </tr> <tr> <td>Mica</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>1</td> </tr> <tr> <td>Nannofossils</td> <td>90</td> <td>92</td> <td>95</td> <td>95</td> </tr> <tr> <td>Quartz</td> <td>Tr</td> <td>-</td> <td>-</td> <td>-</td> </tr> </table>		1, 88	2, 69	4, 67	5, 80	D					Foraminifers	10	8	5	4	Mica	Tr	Tr	Tr	1	Nannofossils	90	92	95	95	Quartz	Tr	-	-	-
	1, 88	2, 69	4, 67	5, 80																																						
D																																										
Foraminifers	10	8	5	4																																						
Mica	Tr	Tr	Tr	1																																						
Nannofossils	90	92	95	95																																						
Quartz	Tr	-	-	-																																						
NP15	NP15 - NP16				2	[Lithology diagram]	[Disturbance diagram]	[Structures diagram]	[Samples diagram]	* * *																																
A/M	Barren																																									
Barren	Barren				3	[Lithology diagram]	[Disturbance diagram]	[Structures diagram]	[Samples diagram]	* * *																																
Barren	Barren																																									
	Barren				4	[Lithology diagram]	[Disturbance diagram]	[Structures diagram]	[Samples diagram]	* * *																																
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	Barren				5	[Lithology diagram]	[Disturbance diagram]	[Structures diagram]	[Samples diagram]	* * *																																
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	Barren				6	[Lithology diagram]	[Disturbance diagram]	[Structures diagram]	[Samples diagram]	* * *																																
	Barren																																									
	Barren				CC	[Lithology diagram]	[Disturbance diagram]	[Structures diagram]	[Samples diagram]	* * *																																

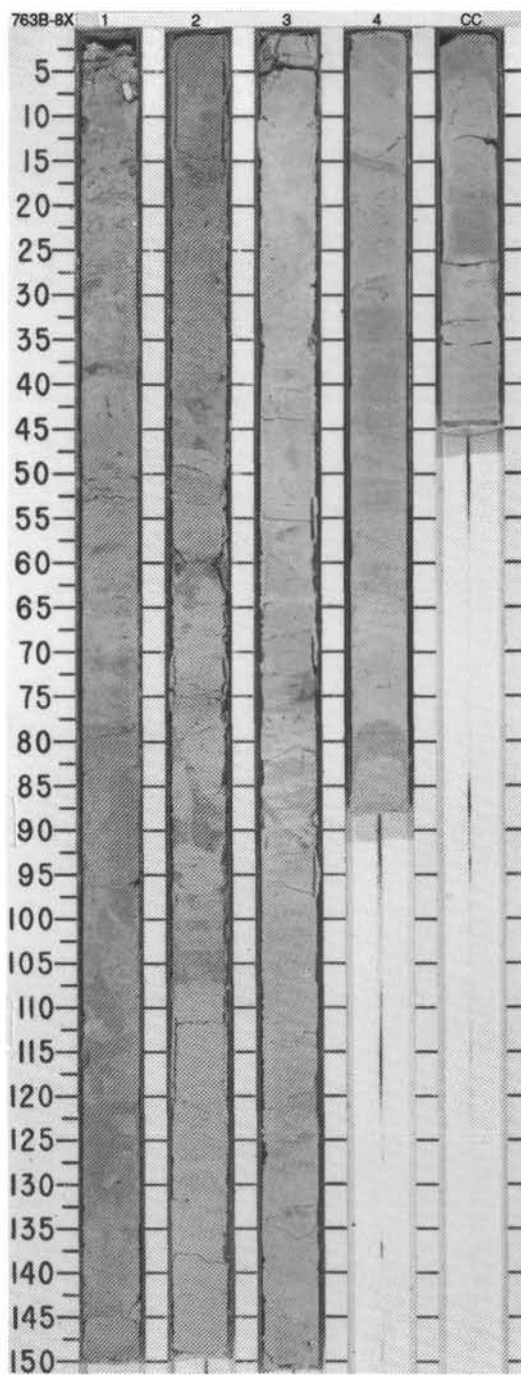


TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																			
FORMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																													
MIDDLE EOCENE																																
A/M	P11						1						FORAMINIFERAL NANNOFOSSIL CHALK WITH CLAY Core is moderately disturbed, especially toward the base. Major lithology: FORAMINIFERAL NANNOFOSSIL CHALK WITH CLAY, light greenish gray (SGY 7/1), homogeneous. Contains several vague laminations and an increase in pyrite towards the base. SMEAR SLIDE SUMMARY (%): <table style="margin-left: 20px;"> <tr> <td>1,80</td> <td>2,50</td> </tr> <tr> <td>D</td> <td>D</td> </tr> </table> COMPOSITION: <table style="margin-left: 20px;"> <tr> <td>Accessory minerals</td> <td>—</td> <td>1</td> </tr> <tr> <td>Foraminifers</td> <td>25</td> <td>30</td> </tr> <tr> <td>Nannofossils</td> <td>70</td> <td>66</td> </tr> <tr> <td>Quartz</td> <td>3</td> <td>1</td> </tr> <tr> <td>Spicules</td> <td>2</td> <td>2</td> </tr> </table>	1,80	2,50	D	D	Accessory minerals	—	1	Foraminifers	25	30	Nannofossils	70	66	Quartz	3	1	Spicules	2	2
1,80	2,50																															
D	D																															
Accessory minerals	—	1																														
Foraminifers	25	30																														
Nannofossils	70	66																														
Quartz	3	1																														
Spicules	2	2																														
A/P	NP15						2																									
Barren							CC																									

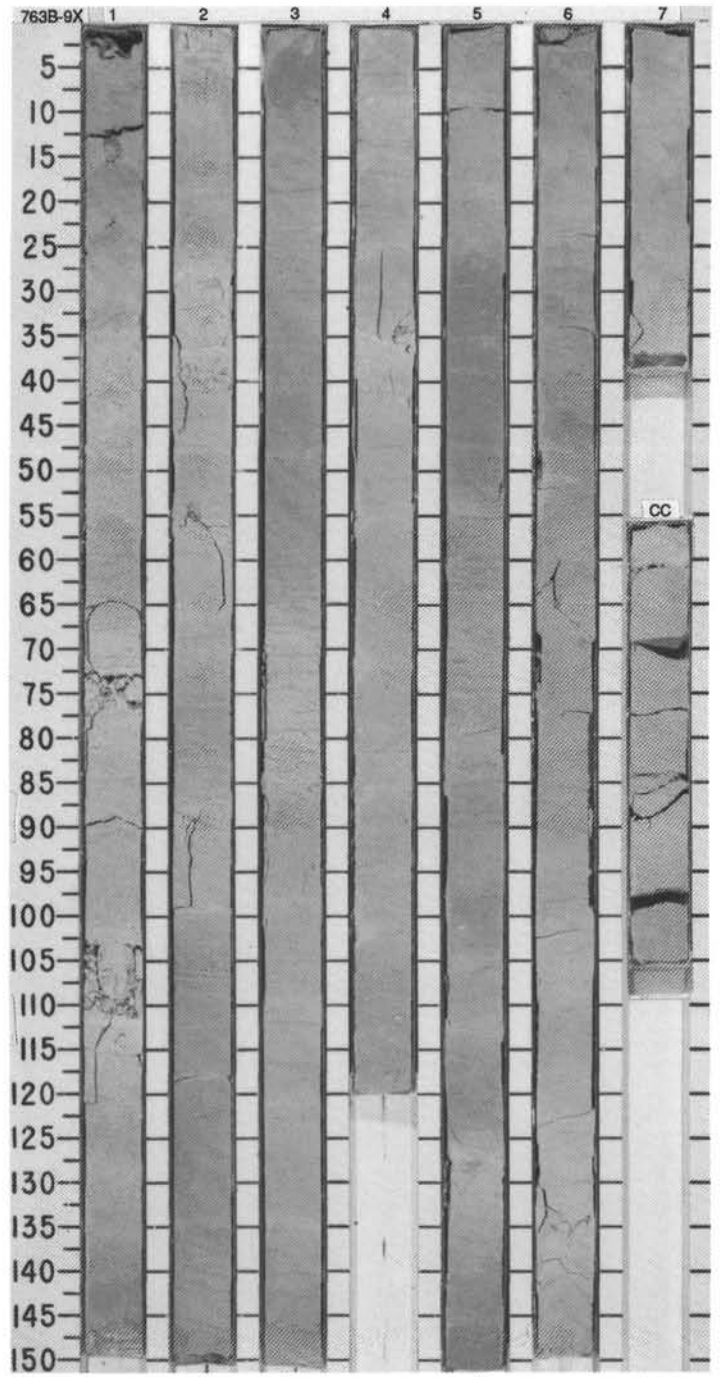


SITE 763 HOLE B CORE 8X CORED INTERVAL 247.0-256.5 mbsf

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											PALY(MORPH)S																																																																	
UPPER CAMPANIAN													<p>FORAMINIFER NANNOFOSSIL CHALK WITH CLAY AND CLAYEY FORAMINIFER NANNOFOSSIL CHALK</p> <p>Major lithologies: FORAMINIFER NANNOFOSSIL CHALK with CLAY and CLAYEY FORAMINIFER NANNOFOSSIL CHALK, shades of pale green (5G 7/2, 5G 6/2). Moderately to highly bioturbated. Zoophycos, Planolites, and large vertical burrows present, with more sand grains in burrows (Section 1 and Section 2, 83.87 cm). Shell fragments of Inoceramus dispersed throughout. Sections 3 and 4 show slight alternation of pale green colors. Pyrite dispersed throughout core as nodules and grains. Strong smell of hydrogen sulfide gas.</p> <p>Minor lithologies: a. Foraminifer nannofossil chalk with glauconite, and b. Sandy foraminifer nannofossil chalk with quartz, glauconite, and pyrite, both grayish green (5G 5/2) and pale green (5G 6/2) and dispersed throughout Sections 1 and 2. Sandy zones appear to occur in burrows and are reworked material.</p> <p>Interpretation: Section 1 is a reworked Cretaceous-Tertiary interval. Preliminary age determinations indicate Paleocene to Maestrichtian age fossils are mixed in this section.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 38</td> <td>1, 96</td> <td>2, 66</td> <td>3, 66</td> <td>4, 67</td> </tr> <tr> <td></td> <td>M</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>—</td> <td>—</td> <td>2</td> <td>2</td> <td>—</td> </tr> <tr> <td>Dolomite</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>1</td> </tr> <tr> <td>Feldspar</td> <td>1</td> <td>2</td> <td>—</td> <td>—</td> <td>2</td> </tr> <tr> <td>Fish</td> <td>2</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>35</td> <td>35</td> <td>30</td> <td>26</td> <td>26</td> </tr> <tr> <td>Glauconite</td> <td>10</td> <td>10</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>47</td> <td>38</td> <td>63</td> <td>67</td> <td>61</td> </tr> <tr> <td>Pyrite</td> <td>—</td> <td>3</td> <td>—</td> <td>Tr</td> <td>5</td> </tr> <tr> <td>Quartz</td> <td>5</td> <td>10</td> <td>5</td> <td>5</td> <td>5</td> </tr> </table>		1, 38	1, 96	2, 66	3, 66	4, 67		M	D	D	D	D	Clay	—	—	2	2	—	Dolomite	—	—	—	—	1	Feldspar	1	2	—	—	2	Fish	2	—	—	—	—	Foraminifers	35	35	30	26	26	Glauconite	10	10	—	—	—	Nannofossils	47	38	63	67	61	Pyrite	—	3	—	Tr	5	Quartz	5	10	5	5	5
	1, 38	1, 96	2, 66	3, 66	4, 67																																																																										
	M	D	D	D	D																																																																										
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Pyrite	—	3	—	Tr	5																																																																										
Quartz	5	10	5	5	5																																																																										
A/G	CAMPANIAN			(CaCO <sub>3</sub> =80.8%)			1	0.5																																																																							
A/G	CC22 - CC24			0.50, 4   1.84		CaCO <sub>3</sub> =66.9%	2	1.0																																																																							
Barren				52.3   1.78		CaCO <sub>3</sub> =75.3%	3																																																																								
Barren				2.03		CaCO <sub>3</sub> =72.6%	4																																																																								
				TOC=0.27%			CC																																																																								



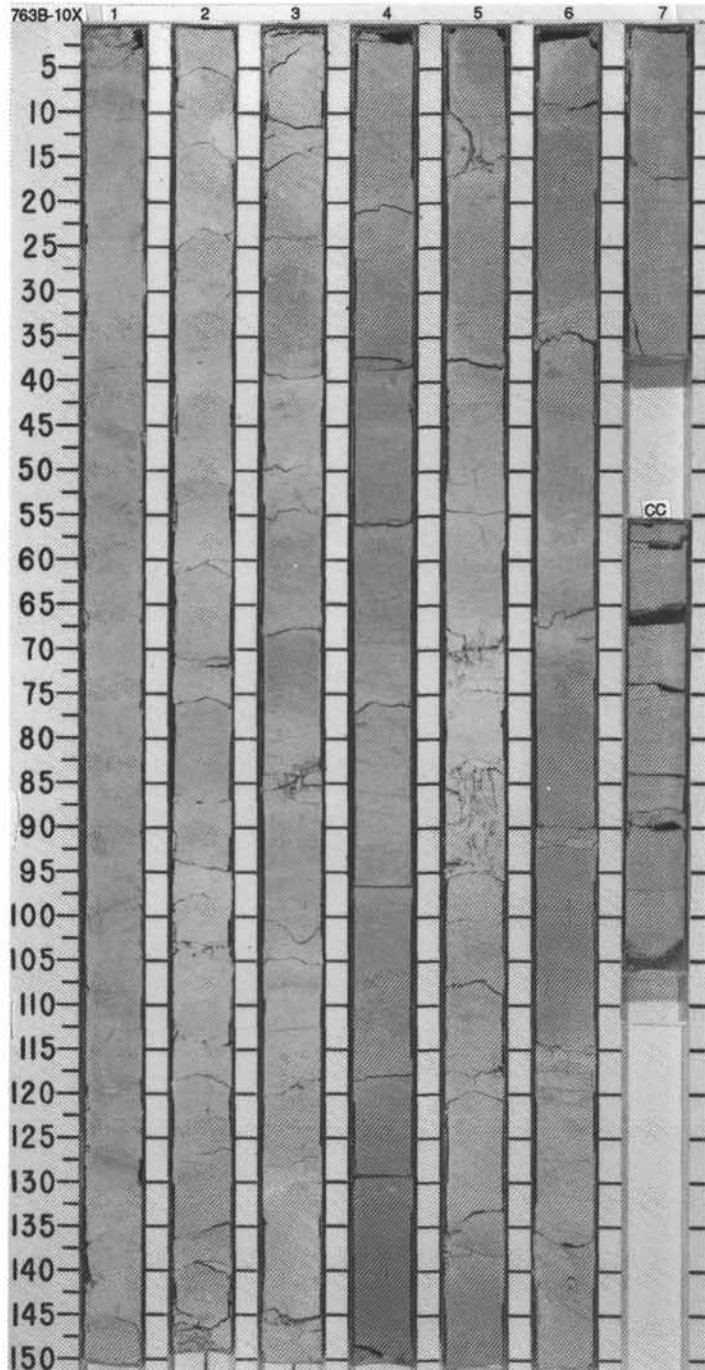
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																								
UPPER CAMPANIAN								<p>NANNOFOSSIL CHALK WITH FORAMINIFERS AND CLAY</p> <p>Major lithology: NANNOFOSSIL CHALK with FORAMINIFERS and CLAY, gradationally interlayered pale green (5G 7/2) and light greenish gray (5G 7/1) beds, which vary between 5 and 65 cm in thickness. Generally structureless and characterized by moderate to strong bioturbation with many identifiable trace fossils such as Zoophycos, Planolites, Chondrites, and minor Teichichnus</p> <p>Minor lithology: Pyrite grains are scattered throughout the core. Some trace fossils are infilled with pyrite, e.g. Section 4, 20-22 cm, and Section 5, 85-86 cm. Foraminifer tests are also filled with either pyrite or glauconite.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 94</td> <td>3, 52</td> <td>5, 131</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>Tr</td> <td>2</td> <td>Tr</td> </tr> <tr> <td>Foraminifers</td> <td>10</td> <td>15</td> <td>10</td> </tr> <tr> <td>Nannofossils</td> <td>90</td> <td>83</td> <td>90</td> </tr> <tr> <td>Quartz</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> </table>		1, 94	3, 52	5, 131	D	D	D	D	Clay	Tr	2	Tr	Foraminifers	10	15	10	Nannofossils	90	83	90	Quartz	Tr	Tr	Tr
	1, 94	3, 52	5, 131																													
D	D	D	D																													
Clay	Tr	2	Tr																													
Foraminifers	10	15	10																													
Nannofossils	90	83	90																													
Quartz	Tr	Tr	Tr																													
A/G		1	0.5																													
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Barren		3																														
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		6																														
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		CC																														



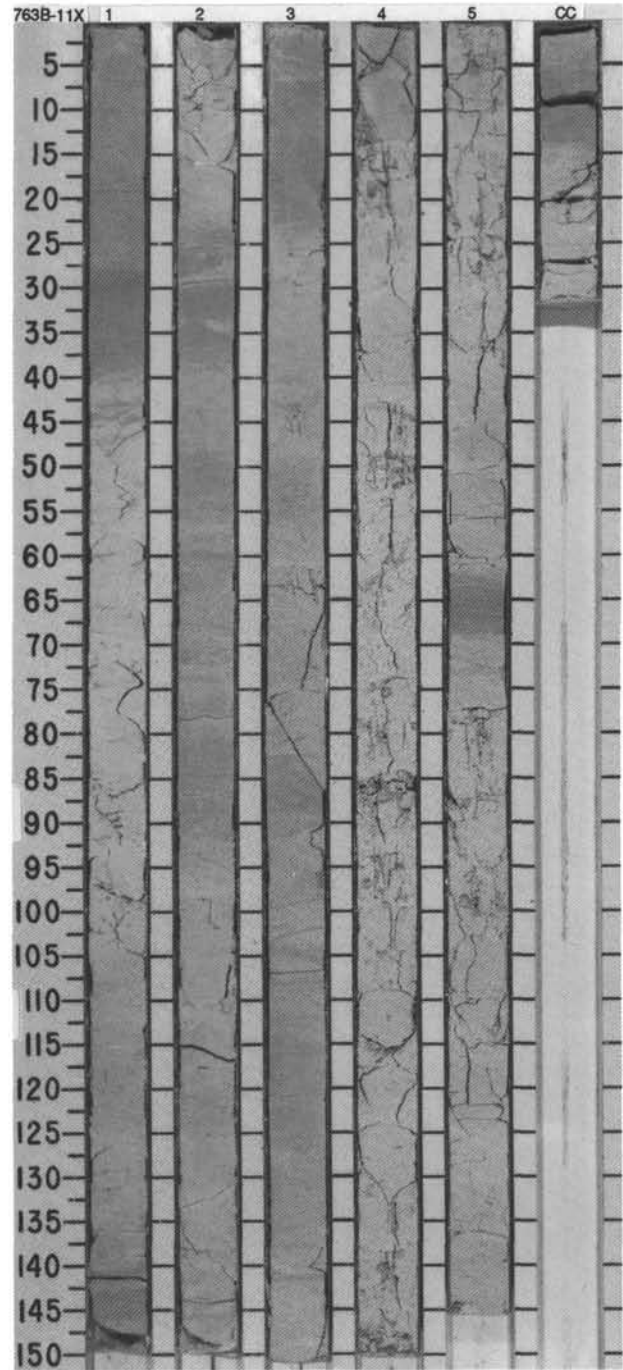


SITE 763 HOLE B CORE 10X CORED INTERVAL 266.0-275.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIALOMS	PALYNOMORPHS																																									
UPPER CAMPANIAN									0.5				* Sections 1 and 2 are strongly disturbed (biscuited) by drilling.	NANNOFOSSIL CHALK WITH FORAMINIFERS AND CLAY																																
A/G								1	1.0						Major lithology: NANNOFOSSIL CHALK WITH FORAMINIFERS and CLAY, strongly bioturbated (Zoophycos, Chondrites, vertical and horizontal burrows). Barely visible cycles with very weak color changes are present: "dark" lithofacies are light greenish gray (5G 7/1) and light lithofacies are between 5G 7/1 and 10Y 8/1 (white). Cycles are about 30 to 50 cm thick: dark and light colors are in the same proportions. Both lithofacies are grouped in the same dominant lithology since the difference is small. Small pyrite crystals are scattered throughout and some foraminifer tests are filled with pyrite.																															
UPPER CAMPANIAN								2					Minor lithology: Nannofossil chalk, white (10Y 8/1), in Section 5, 65-95 cm, there is a gradual transition to the dominant lithology.	SMEAR SLIDE SUMMARY (%):																																
A/G								3							1, 37 D	3, 69 D	5, 78 M																													
CAMPANIAN - MAESTRICHTIAN								4					COMPOSITION:	<table border="1"> <tr><td>Clay</td><td>2</td><td>3</td><td>3</td></tr> <tr><td>Dolomite</td><td>—</td><td>1</td><td>—</td></tr> <tr><td>Feldspar</td><td>1</td><td>2</td><td>1</td></tr> <tr><td>Foraminifers</td><td>15</td><td>25</td><td>10</td></tr> <tr><td>Nannofossils</td><td>68</td><td>59</td><td>84</td></tr> <tr><td>Opaques</td><td>5</td><td>7</td><td>—</td></tr> <tr><td>Quartz</td><td>4</td><td>3</td><td>2</td></tr> <tr><td>Silicoflagellates</td><td>5</td><td>—</td><td>—</td></tr> </table>	Clay	2	3	3	Dolomite	—	1	—	Feldspar	1	2	1	Foraminifers	15	25	10	Nannofossils	68	59	84	Opaques	5	7	—	Quartz	4	3	2	Silicoflagellates	5	—	—
Clay	2	3	3																																											
Dolomite	—	1	—																																											
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Silicoflagellates	5	—	—																																											
Barren								5					* CC	55																																
A/G								6							60																															
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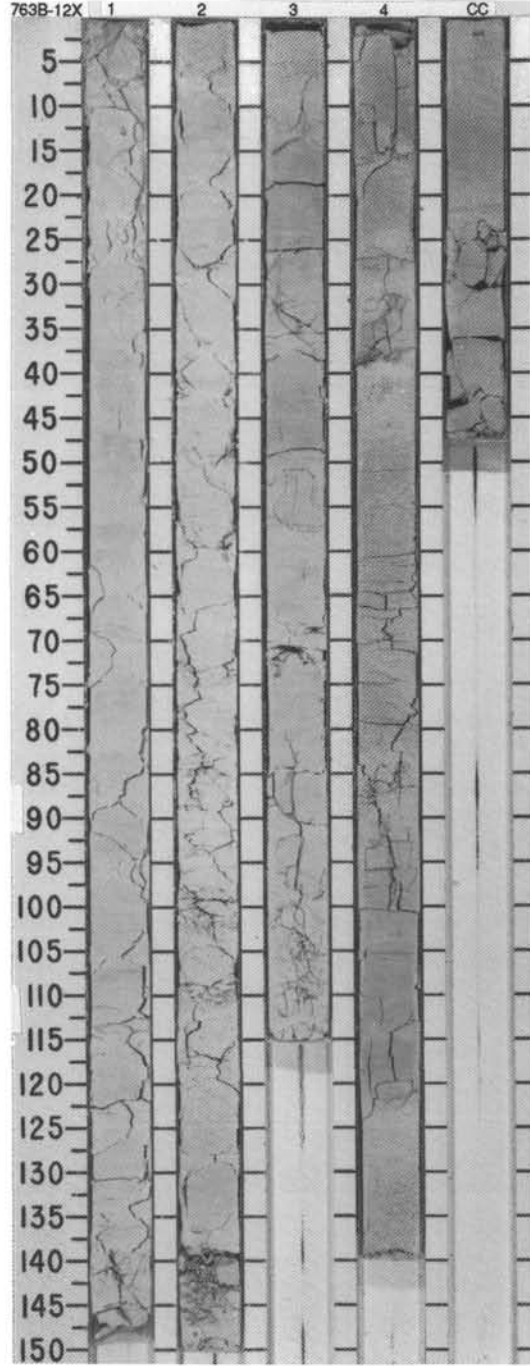


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																		
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALYNOMORPHS																																																								
LOWER CAMPANIAN											<p>FORAMINIFER NANNOFOSSIL CHALK WITH CLAY AND NANNOFOSSIL CHALK WITH FORAMINIFERS AND CLAY</p> <p>Major lithologies: FORAMINIFER NANNOFOSSIL CHALK with CLAY and NANNOFOSSIL CHALK with FORAMINIFERS and CLAY, light greenish gray (5GY 7/1 and 5G 7/1), alternating and grading into white (5G 8/1) layers. Light greenish gray layers are bioturbated with common horizontal burrows and rare vertical burrows, and exhibit gradational color variations between 5GY 7/1 and 5G 7/1. White layers (5G 8/1) contain less clay, are heavily disturbed (bisected) by drilling, and the pieces are structureless except for Zoophycos burrows. Color boundaries are generally gradational.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 34</td> <td>2, 9</td> <td>4, 30</td> <td>5, 67</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>1</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>2</td> <td>—</td> <td>—</td> <td>5</td> </tr> <tr> <td>Dolomite</td> <td>—</td> <td>1</td> <td>1</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>25</td> <td>20</td> <td>30</td> <td>30</td> </tr> <tr> <td>Glaucinite</td> <td>—</td> <td>1</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>70</td> <td>74</td> <td>65</td> <td>60</td> </tr> <tr> <td>Opaques</td> <td>—</td> <td>4</td> <td>4</td> <td>3</td> </tr> <tr> <td>Quartz</td> <td>2</td> <td>—</td> <td>—</td> <td>2</td> </tr> </table>		1, 34	2, 9	4, 30	5, 67	D	D	D	D	D	Accessory minerals	1	—	—	—	Clay	2	—	—	5	Dolomite	—	1	1	—	Foraminifers	25	20	30	30	Glaucinite	—	1	Tr	—	Nannofossils	70	74	65	60	Opaques	—	4	4	3	Quartz	2	—	—	2
	1, 34	2, 9	4, 30	5, 67																																																									
D	D	D	D	D																																																									
Accessory minerals	1	—	—	—																																																									
Clay	2	—	—	5																																																									
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A/G						0.5																																																							
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SITE 763 HOLE B CORE 12X CORED INTERVAL 285.0-294.5 mbsf

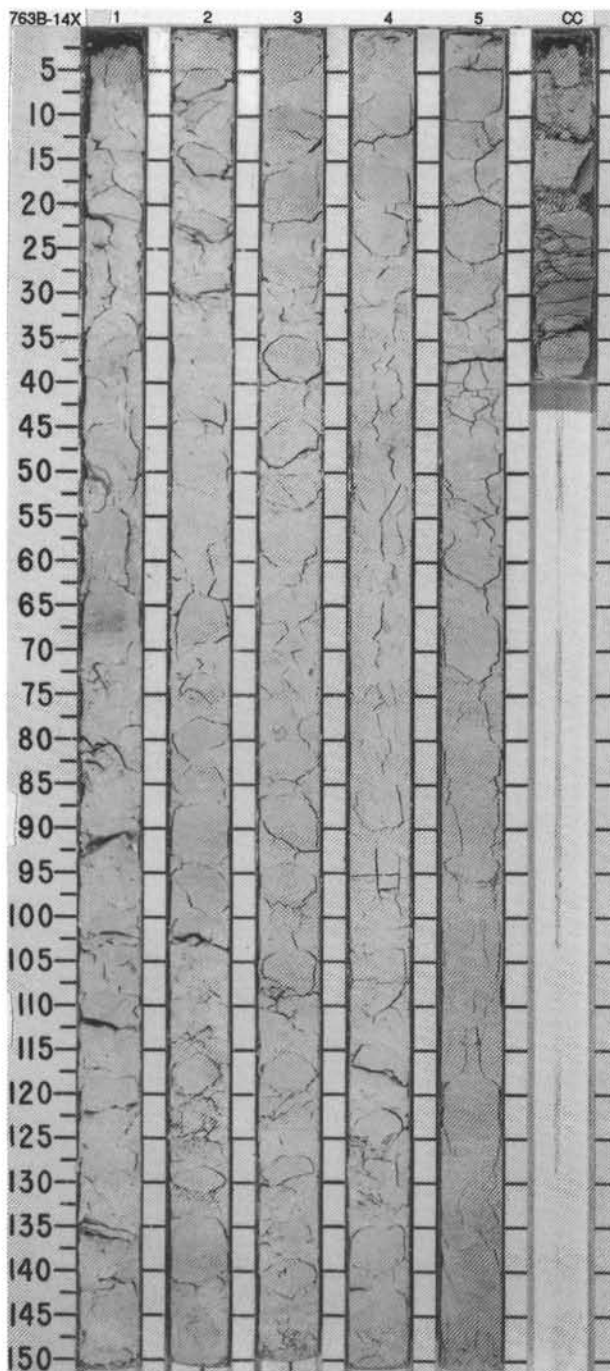
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																								
LOWER CAMPANIAN							<p>NANNOFOSSIL CHALK WITH FORAMINIFERS AND CLAY</p> <p>The core is highly disturbed and consists of drilling biscuits and approximately 30% drilling slurry.</p> <p>Major lithology: NANNOFOSSIL CHALK with FORAMINIFERS and CLAY, light greenish gray (5G 7/1) to pale green (5G 7/2), structureless. Bioturbation is moderate to strong throughout the core with many Zoophycos, Planolites, and Chondrites. Foraminifers are filled with opaque minerals.</p> <p>Minor lithologies:                      a. Recrystallized foraminifers are concentrated in Section 3, 10-16 cm, with many Zoophycos, Planolites, and Chondrites.                      b. A shell fragment is observed in CC, 20 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1.58</td> <td>4.58</td> </tr> <tr> <td>D</td> <td></td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>3</td> <td>1</td> </tr> <tr> <td>Foraminifers</td> <td>15</td> <td>15</td> </tr> <tr> <td>Glass</td> <td>1</td> <td>1</td> </tr> <tr> <td>Nannofossils</td> <td>78</td> <td>79</td> </tr> <tr> <td>Quartz</td> <td>2</td> <td>3</td> </tr> <tr> <td>Spicules</td> <td>8</td> <td>2</td> </tr> </table>		1.58	4.58	D		D	Clay	3	1	Foraminifers	15	15	Glass	1	1	Nannofossils	78	79	Quartz	2	3	Spicules	8	2
	1.58	4.58																													
D		D																													
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Foraminifers	15	15																													
Glass	1	1																													
Nannofossils	78	79																													
Quartz	2	3																													
Spicules	8	2																													
A/G		1	0.5	[Graphic Lithology]	[Disturbance]																										
A/G		1	1.0	[Graphic Lithology]	[Disturbance]																										
Barren		2		[Graphic Lithology]	[Disturbance]																										
Barren		3		[Graphic Lithology]	[Disturbance]																										
		4		[Graphic Lithology]	[Disturbance]																										
CC				[Graphic Lithology]	[Disturbance]																										





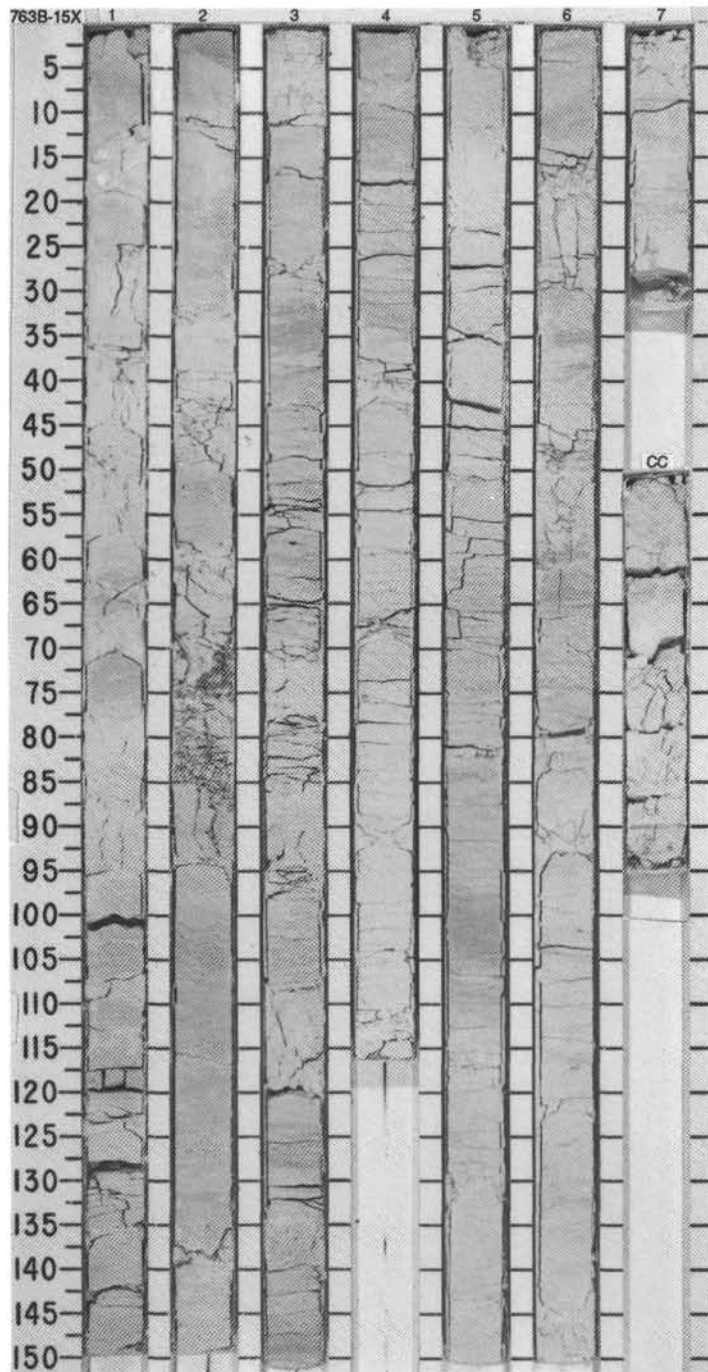
SITE 763 HOLE B CORE 14X CORED INTERVAL 304.0-313.5 mbsf

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											PALYNOMORPHS																																																	
LOWER CAMPANIAN													<p>FORAMINIFER NANNOFOSSIL CHALK</p> <p>Core is heavily disturbed by drilling, with approximately 50% drilling slurry.</p> <p>* Major lithology: FORAMINIFER NANNOFOSSIL CHALK, white (5G 8/1) to light greenish gray (5G 7/1) with gradation between colors. Lighter colored pieces are generally structureless except for Zoophycos burrows and rare, fine-grained pyrite filled burrows (Section 3, 71 and 139 cm). Darker intervals are bioturbated with horizontal and vertical burrows and minor anastomosing pressure-solution surfaces (Section CC, 27-32 cm).</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 65</td> <td>2, 65</td> <td>4, 95</td> <td>5, 121</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>4</td> <td>3</td> <td>1</td> <td>2</td> </tr> <tr> <td>Dolomite</td> <td>—</td> <td>—</td> <td>1</td> <td>2</td> </tr> <tr> <td>Foraminifers</td> <td>35</td> <td>35</td> <td>35</td> <td>35</td> </tr> <tr> <td>Glauconite</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>57</td> <td>58</td> <td>60</td> <td>58</td> </tr> <tr> <td>Opales</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> <tr> <td>Quartz</td> <td>—</td> <td>1</td> <td>—</td> <td>—</td> </tr> <tr> <td>Zeolite</td> <td>1</td> <td>—</td> <td>—</td> <td>—</td> </tr> </table>		1, 65	2, 65	4, 95	5, 121		D	D	D	D	Clay	4	3	1	2	Dolomite	—	—	1	2	Foraminifers	35	35	35	35	Glauconite	—	Tr	—	—	Nannofossils	57	58	60	58	Opales	3	3	3	3	Quartz	—	1	—	—	Zeolite	1	—	—	—
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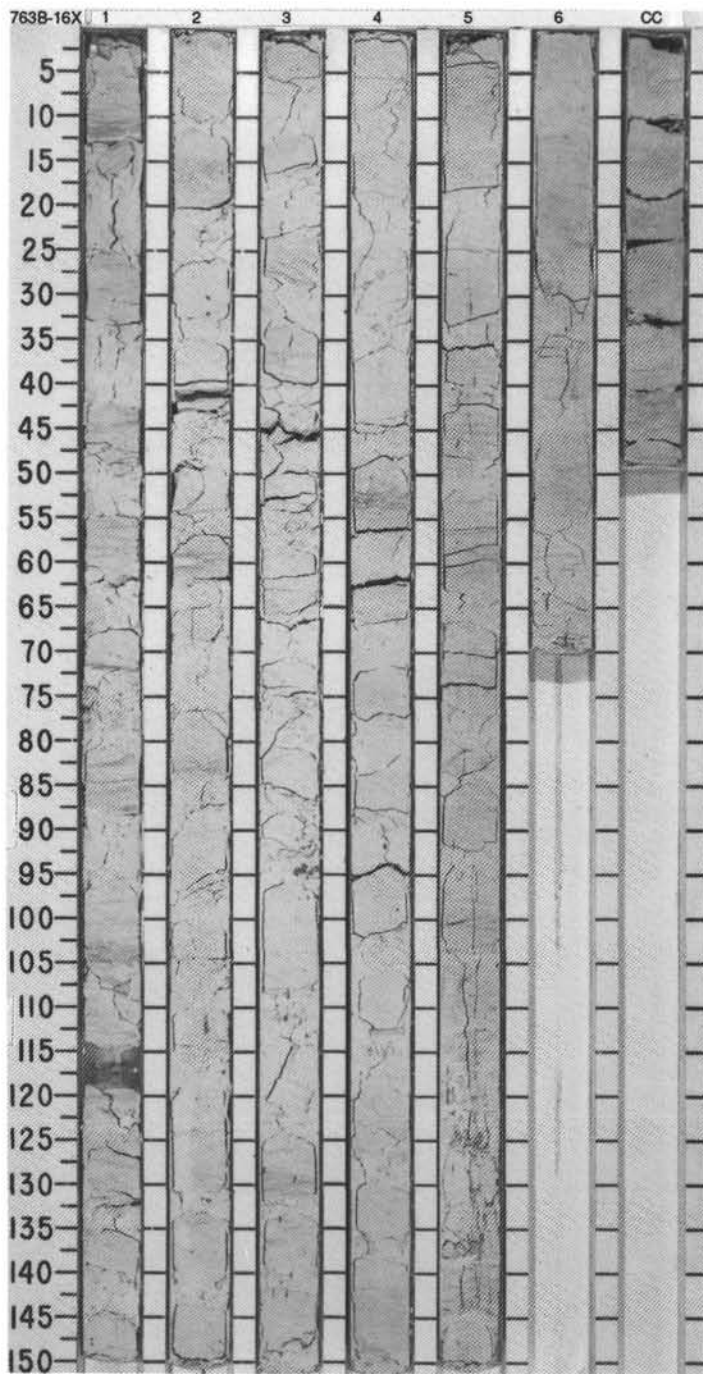


TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																								
FORAMINIFERS	NANNOFOSSILS																																																																																			
LOWER CAMPANIAN		CC18 - CC21			TOC=89.0%	1	0.5 1.0					<p>NANNOFOSSIL CHALK WITH FORAMINIFERS AND NANNOFOSSIL CHALK WITH CLAY AND FORAMINIFERS</p> <p>* Coring disturbance varies from minor to severe fracturing with a minor percentage of drilling slurry and biscuiting.</p> <p>Major lithologies:                      NANNOFOSSIL CHALK with FORAMINIFERS, white (5G 8/1), dominantly structureless, minor bioturbation. NANNOFOSSIL CHALK with CLAY and FORAMINIFERS light greenish gray (5G 7/1), bioturbation is more obvious in this material and many anastomosing thin laminae are present. The two lithologies are interbedded with both sharp and gradational contacts. The nannofossil chalk with clay and foraminifers, the less common lithology, varies from 7 to 20 cm in thickness and does not disperse as well in smear slides; foraminifers within it are more poorly preserved. Dolomite(?) rhombs, calcite overgrowths on foraminifers, and dark foraminifer test infilling are about equally common in both lithologies. Small pyrite nodules are common and two are &gt; 0.5 mm. Small (&gt; 0.1 mm) pits are observed on the cut surface suggesting dissolution or gas.</p>																																																																								
UPPER SANTONIAN													CC16 - CC17			TOC=0.0%	2						<p>* SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 47</td> <td>2, 101</td> <td>3, 33</td> <td>4, 49</td> <td>5, 57</td> <td>6, 46</td> <td>7, 22</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>1</td> <td>1</td> <td>Tr</td> <td>Tr</td> <td>1</td> <td>1</td> <td>1</td> </tr> <tr> <td>Clay</td> <td>5</td> <td>10</td> <td>10</td> <td>4</td> <td>4</td> <td>5</td> <td>4</td> </tr> <tr> <td>Foraminifers</td> <td>20</td> <td>15</td> <td>18</td> <td>22</td> <td>18</td> <td>15</td> <td>20</td> </tr> <tr> <td>Inorganic calcite</td> <td>2</td> <td>3</td> <td>5</td> <td>2</td> <td>3</td> <td>5</td> <td>3</td> </tr> <tr> <td>Nannofossils</td> <td>70</td> <td>68</td> <td>64</td> <td>71</td> <td>74</td> <td>73</td> <td>71</td> </tr> <tr> <td>Opauques</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>2</td> <td>3</td> <td>1</td> <td>1</td> <td>1</td> <td>—</td> <td>1</td> </tr> </table>		1, 47	2, 101	3, 33	4, 49	5, 57	6, 46	7, 22		D	D	D	D	D	D	D	Accessory minerals	1	1	Tr	Tr	1	1	1	Clay	5	10	10	4	4	5	4	Foraminifers	20	15	18	22	18	15	20	Inorganic calcite	2	3	5	2	3	5	3	Nannofossils	70	68	64	71	74	73	71	Opauques	Tr	Tr	Tr	—
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LOWER CAMPANIAN - UPPER SANTONIAN		CC16 - CC17			TOC=89.6%	3						<p>* OG IW</p>																																																																								
A/M	A/M																																																																																			
UPPER SANTONIAN		CC16 - CC17			TOC=91.3%	4						<p>* OG IW</p>																																																																								
A/M	A/M																																																																																			
LOWER CAMPANIAN - UPPER SANTONIAN		CC16 - CC17			TOC=89.6%	5						<p>* OG IW</p>																																																																								
A/M	A/M																																																																																			
UPPER SANTONIAN		CC16 - CC17			TOC=91.3%	6						<p>* OG IW</p>																																																																								
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LOWER CAMPANIAN - UPPER SANTONIAN		CC16 - CC17			TOC=91.3%	7						<p>* OG IW</p>																																																																								
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SITE 763 HOLE B CORE 16X CORED INTERVAL 323.0-332.5 mbsf

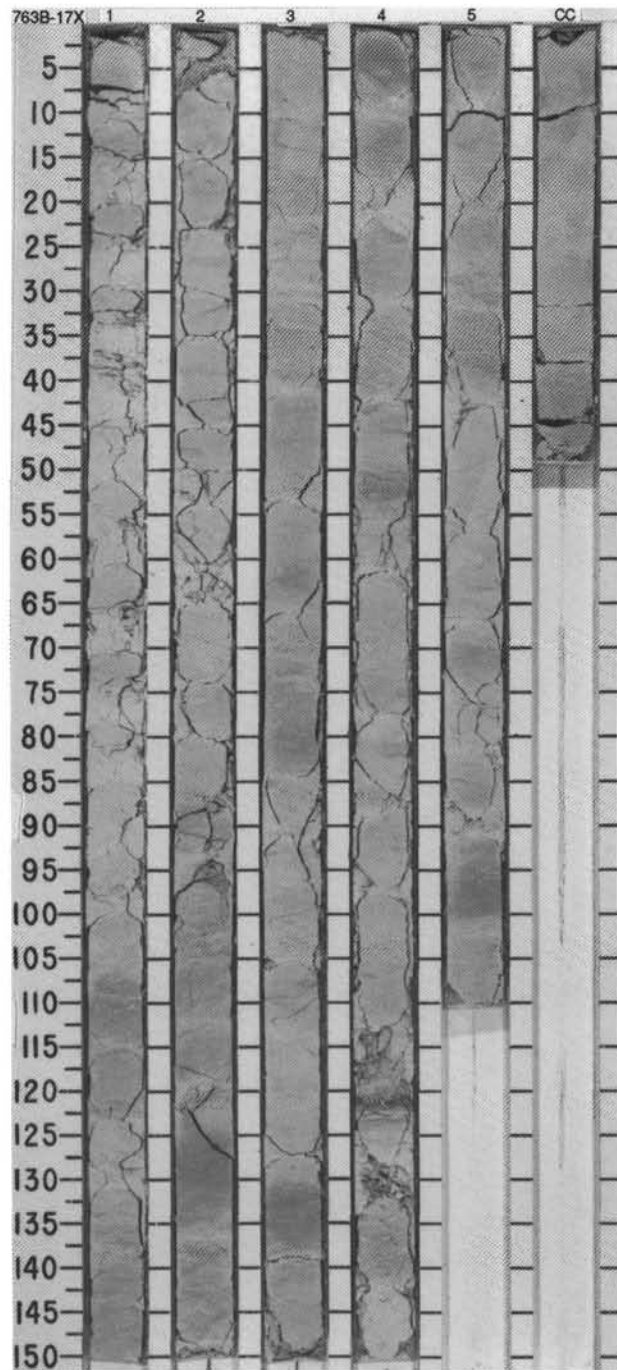
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALYMONOPHS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																										
LOWER SANTONIAN										1	0.5					<p>NANNOFOSSIL CHALK AND NANNOFOSSIL CHALK WITH CLAY</p> <p>The core is intensely disturbed by drilling. Small drilling biscuits, 5-10 cm long, occur within drilling slurry intervals 5-10 cm long, so that the percentage of "real" sediment in the core ranges from 40 to 60%.</p> <p>Major lithologies: NANNOFOSSIL CHALK and NANNOFOSSIL CHALK with CLAY, greenish white (5G 8/1), intensely bioturbated throughout. Vertical and horizontal, burrows mimic layering. Zoophycos burrows in Section 5. Foraminifers are present in amounts of 2-10%. Mica is commonly present in trace amounts, and clay does not exceed 5%. Microstylolite horizons occur at regular intervals of 30-50 cm. They are clay-rich and darker in color than the surrounding chalk (light greenish gray, 5G 7/1, and greenish gray, 5G 6/1). Pyrite nodules, 1-5 mm across, occur throughout the core and are concentrated in Section 2, 110-120 cm. Two pyrite-filled vertical burrows, 10 cm long and 2 mm across, are present in Section 5, 20-40 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 84</td> <td>2, 125</td> <td>4, 16</td> <td>5, 100</td> <td>5, 103</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> <td>M</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>5</td> <td>5</td> <td>5</td> <td>80</td> <td>7</td> </tr> <tr> <td>Foraminifers</td> <td>3</td> <td>2</td> <td>10</td> <td>—</td> <td>7</td> </tr> <tr> <td>Mica</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Nannofossils</td> <td>92</td> <td>93</td> <td>85</td> <td>19</td> <td>86</td> </tr> <tr> <td>Quartz</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> </tr> </table>		1, 84	2, 125	4, 16	5, 100	5, 103		D	D	D	M	D	Clay	5	5	5	80	7	Foraminifers	3	2	10	—	7	Mica	Tr	Tr	Tr	1	Tr	Nannofossils	92	93	85	19	86	Quartz	—	—	—	Tr	—
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A/M	SANTONIAN							6-48.3 /2-1.88	CaCO <sub>3</sub> 89.2%	2	1.0																																															
A/M	CC14 - CC15							6-47.5 /2-2.02	CaCO <sub>3</sub> 89.1%	3																																																
Barren								6-43.9 /2-2.01	CaCO <sub>3</sub> 87.4%	4																																																
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TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																	
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LOWER SANTONIAN	A/M	A/P	Barren	Barren	Barren							<p>NANNOFOSSIL CHALK WITH FORAMINIFERS, NANNOFOSSIL CHALK, AND NANNOFOSSIL CHALK WITH CLAY</p> <p>Major lithologies:                      NANNOFOSSIL CHALK with FORAMINIFERS and NANNOFOSSIL CHALK, light greenish gray (5G 7/1) to NANNOFOSSIL CHALK with CLAY, greenish gray (5G 6/1); moderately drill-disturbed in Sections 1 and 2 with inter-biscuit material being homogenized and light greenish gray (5GY 7/1). Color changes are gradational with darker layers (5G 6/1) 2-35 cm thick and lighter layers 15-100 cm thick. Bioturbation is moderate throughout most of the core. Zoophycos burrows are common. Very fine-grained pyrite is concentrated in small blebs (up to 1 X 1 cm), but is rare. Greenish gray (5G 5/1) elliptical blebs and wispy laminae occur at Section 4, 120-122 cm, and may mark concentrations of clay or iron-bearing minerals.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <thead> <tr> <th rowspan="2">COMPOSITION:</th> <th>1,111</th> <th>2,58</th> <th>3,133</th> <th>4,122</th> <th>5,26</th> </tr> <tr> <th>D</th> <th>D</th> <th>D</th> <th>D</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>Caliche/Dolomite</td> <td>26</td> <td>27</td> <td>13</td> <td>—</td> <td>14</td> </tr> <tr> <td>Calcareous fragments</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>4</td> <td>4</td> <td>6</td> <td>7</td> <td>—</td> </tr> <tr> <td>Dolomite</td> <td>2</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>20</td> <td>9</td> <td>16</td> <td>20</td> <td>2</td> </tr> <tr> <td>Nannofossils</td> <td>40</td> <td>38</td> <td>32</td> <td>70</td> <td>38</td> </tr> <tr> <td>Opaques</td> <td>—</td> <td>Tr</td> <td>1</td> <td>3</td> <td>1</td> </tr> <tr> <td>Quartz</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>1</td> </tr> <tr> <td>Zeolite</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> </tbody> </table>	COMPOSITION:	1,111	2,58	3,133	4,122	5,26	D	D	D	D	D	Caliche/Dolomite	26	27	13	—	14	Calcareous fragments	—	—	—	—	—	Clay	4	4	6	7	—	Dolomite	2	—	—	Tr	—	Foraminifers	20	9	16	20	2	Nannofossils	40	38	32	70	38	Opaques	—	Tr	1	3	1	Quartz	—	—	—	—	1	Zeolite	—	—	Tr	—	—
COMPOSITION:	1,111	2,58	3,133	4,122	5,26																																																																								
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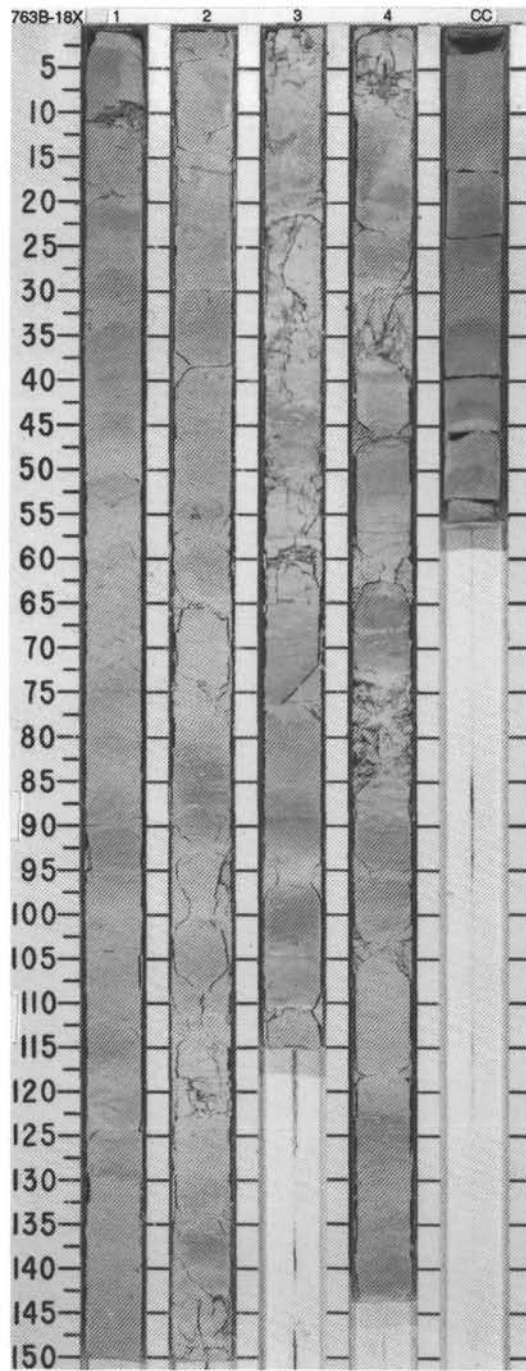
$\phi = 45.5$  V=1.92  
 $\rho = 1.93$  CaCO<sub>3</sub>=89.8%  
 TOC=0.0%

$\phi = 37.2$  V=1.93  
 $\rho = 2.12$  CaCO<sub>3</sub>=76.2%



SITE 763 HOLE B CORE 18X CORED INTERVAL 342.0-351.5 mbsf

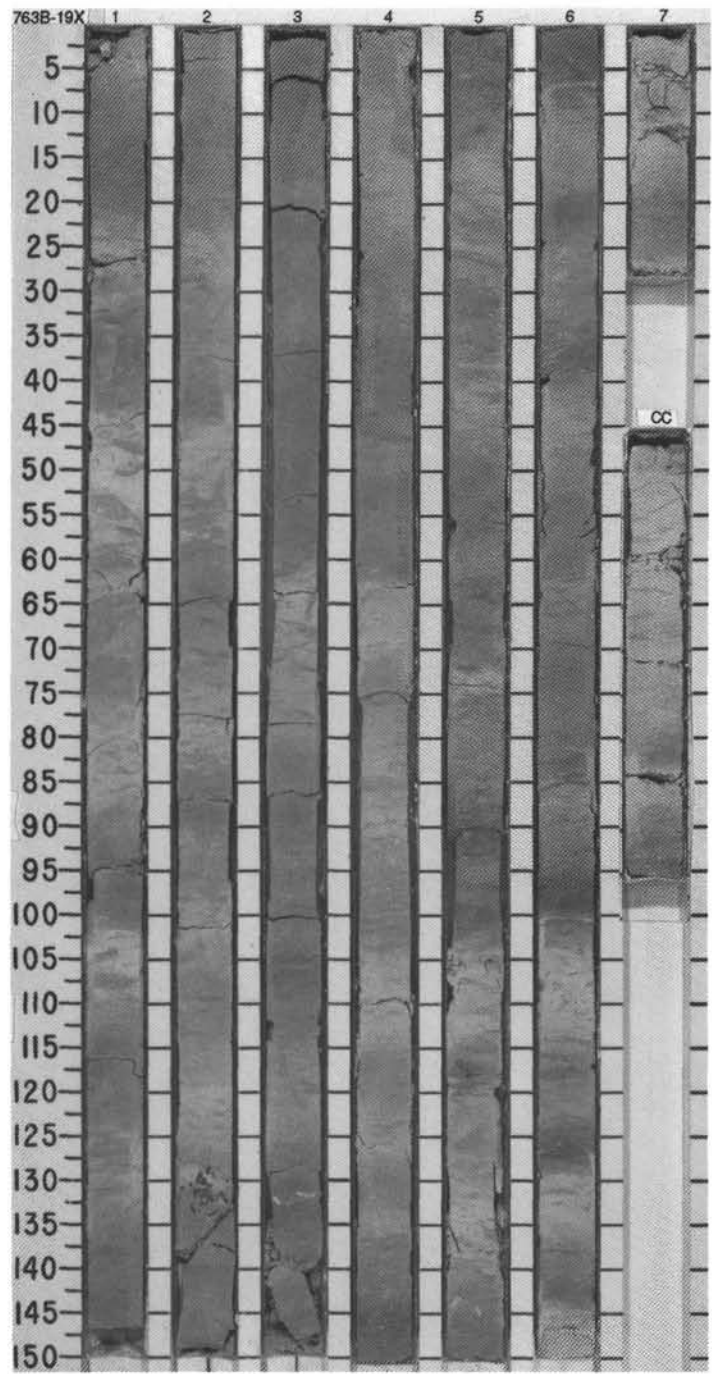
TIME-ROCK UNIT	BIOSTRAI. ZONE/ FOSSIL CHARACTER				CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																															
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					$\beta_{2.06}^{1.8}$ V-1 .95 $\beta_{2.06}^{1.2}$ V-2 .04 ●CaCO <sub>3</sub> -86.8% ●CaCO <sub>3</sub> -84.8%	1 2 3 4 CC					NANNOFOSSIL CHALK WITH FORAMINIFERS AND NANNOFOSSIL CHALK WITH CLAY  Major lithologies: NANNOFOSSIL CHALK with FORAMINIFERS, white (5G 8/1) to light greenish gray (5G 7/1), interbedded with NANNOFOSSIL CHALK with CLAY, light greenish gray (5G 7/1) to greenishgray (5G 6/1). Beds vary from 2 to 20 cm in thickness, and most contacts are gradational. Small pyrite nodules are present throughout and are more common in the darker intervals. Small spherical pits on the cut surface appear to be more common in the lighter intervals and may be due to gas ordissolution. Bioturbation is moderate number throughout. Dolomite (?) rhombs form a minor component and both foraminifers and nannofossils show calcite overgrowths.  Minor lithology: Nannofossil chalk with foraminifers and clay, greenish gray (5G 6/1), Section CC, 20-26 cm, and possibly some of the other darker intervals in the core.  SMEAR SLIDE SUMMARY (%): <table border="1"> <tr> <td></td> <td>1, 93</td> <td>2, 99</td> <td>3, 59</td> <td>4, 10</td> <td>CC, 22</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>M</td> </tr> </table> COMPOSITION: <table border="1"> <tr> <td>Accessory minerals</td> <td>1</td> <td>Tr</td> <td>1</td> <td>Tr</td> <td>1</td> </tr> <tr> <td>Clay</td> <td>18</td> <td>6</td> <td>6</td> <td>8</td> <td>15</td> </tr> <tr> <td>Foraminifers</td> <td>6</td> <td>12</td> <td>12</td> <td>12</td> <td>12</td> </tr> <tr> <td>Inorganic calcite</td> <td>4</td> <td>2</td> <td>1</td> <td>2</td> <td>8</td> </tr> <tr> <td>Nannofossils</td> <td>69</td> <td>79</td> <td>78</td> <td>76</td> <td>63</td> </tr> <tr> <td>Quartz</td> <td>2</td> <td>1</td> <td>2</td> <td>2</td> <td>1</td> </tr> </table>		1, 93	2, 99	3, 59	4, 10	CC, 22		D	D	D	D	M	Accessory minerals	1	Tr	1	Tr	1	Clay	18	6	6	8	15	Foraminifers	6	12	12	12	12	Inorganic calcite	4	2	1	2	8	Nannofossils	69	79	78	76	63	Quartz	2	1	2	2	1
	1, 93	2, 99	3, 59	4, 10	CC, 22																																																						
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Quartz	2	1	2	2	1																																																						





SITE 763 HOLE B CORE 19X CORED INTERVAL 351.5-361.0 mbsf

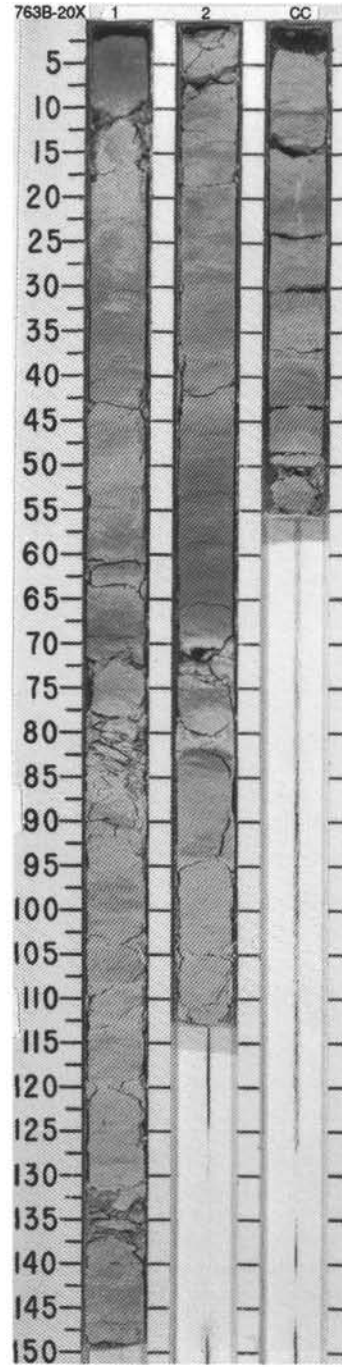
TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																							
FORAMINIFERS	NANNOFOSSILS																																																														
LOWER SANTONIAN		CC14 - CC15		0.5 1.0				NANNOFOSSIL CHALK WITH CLAY AND NANNOFOSSIL CHALK WITH FORAMINIFERS AND CLAY  The core is slightly disturbed by drilling, except for the interval in Section 4, 0-70 cm, where a narrow, fractured core is included in conspicuous drilling slurry.  Major lithologies: NANNOFOSSIL CHALK WITH CLAY, greenish gray (5G 6/1, 5BG 6/1) and NANNOFOSSIL CHALK WITH FORAMINIFERS and CLAY, light greenish gray (5G 7/1, 5BG 7/1) to bluish white (5G 8/1, 5BG 8/1). Lithologies are interbedded. Color changes are gradual and differences are subtle. Color mottling is present throughout. Foraminifers are more abundant in the lighter than darker layers.  Minor lithologies: a. Clayey nannofossil chalk, greenish gray (5G 7/1, 5BG 7/1), forms the darker layers within the core and has gradational contacts with the adjacent lithologies. b. Pyrite nodules, 1-5 mm across, are present and are concentrated in Section 2, 129-136 cm. Inoceramus fragments occur at Section 1, 1-3 cm and Section 3, 130 cm.																																																							
CONIACIAN									CC11 - CC13		2 3 4 5 6 7 CC				SMEAR SLIDE SUMMARY (%):  <table style="margin-left: 40px;"> <tr> <td></td> <td>1.73</td> <td>2.72</td> <td>5.45</td> <td>6.3</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> COMPOSITION:  <table style="margin-left: 40px;"> <tr> <td>Bioclast</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>10</td> <td>10</td> <td>—</td> <td>—</td> </tr> <tr> <td>Dolomite</td> <td>—</td> <td>—</td> <td>30</td> <td>20</td> </tr> <tr> <td>Foraminifers</td> <td>5</td> <td>12</td> <td>12</td> <td>10</td> </tr> <tr> <td>Inorganic calcite</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>85</td> <td>77</td> <td>57</td> <td>68</td> </tr> <tr> <td>Pyrite</td> <td>—</td> <td>1</td> <td>1</td> <td>2</td> </tr> <tr> <td>Quartz</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> </table>		1.73	2.72	5.45	6.3	D	D	D	D	D	Bioclast	—	Tr	—	—	Clay	10	10	—	—	Dolomite	—	—	30	20	Foraminifers	5	12	12	10	Inorganic calcite	—	Tr	—	—	Mica	Tr	—	—	—	Nannofossils	85	77	57	68	Pyrite	—	1
	1.73	2.72	5.45	6.3																																																											
D	D	D	D	D																																																											
Bioclast	—	Tr	—	—																																																											
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Pyrite	—	1	1	2																																																											
Quartz	—	Tr	—	—																																																											
A/G	CONIACIAN - UPPER TURONIAN																																																														
A/M																																																															
Barren																																																															
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		(CaCO <sub>3</sub> )=86.9%																																																													
		38.2 / -2.10																																																													
		36.7 / -1.99																																																													
		34.17																																																													
		CaCO <sub>3</sub> =83.7%																																																													
		CaCO <sub>3</sub> =73.4%																																																													
		CaCO <sub>3</sub> =86.9%																																																													
		36.2 / -1.83																																																													
		34.19																																																													
		CaCO <sub>3</sub> =82.4%																																																													
		CaCO <sub>3</sub> =88.6%																																																													
		TOC=0.09%																																																													





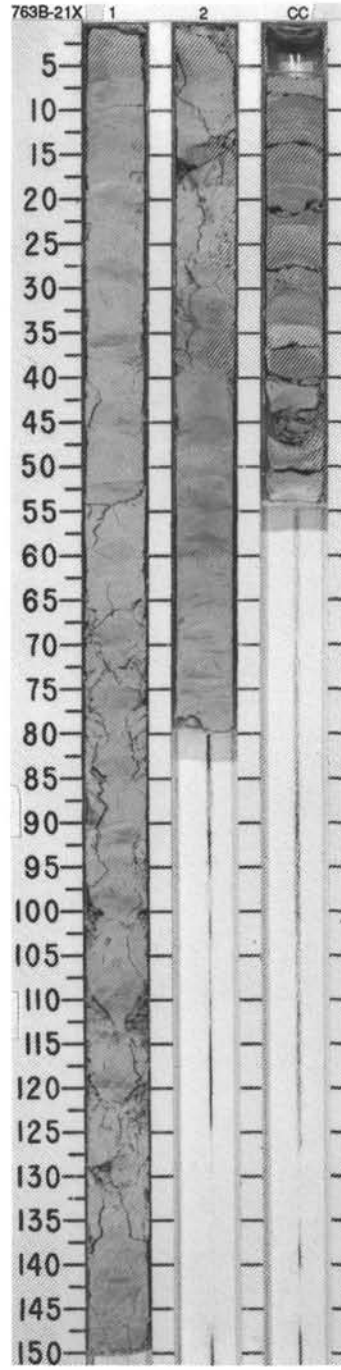
SITE 763 HOLE B CORE 20X CORED INTERVAL 361.0-370.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																											
	FORAMINIFERS	RADIOLARIANS	DIATOMS	PALYMONORPHS																																		
UPPER TURONIAN - CONIACIAN											<p>NANNOFOSSIL CHALK WITH FORAMINIFERS AND CLAY AND CLAYEY NANNOFOSSIL CHALK</p> <p>Core disturbance is moderate with biscuits throughout.</p> <p>Major lithologies: NANNOFOSSIL CHALK with FORAMINIFERS and CLAY, light greenish gray (5GY 7/1), and CLAYEY NANNOFOSSIL CHALK, pale green (5G 6/2). Interbedded, with gradational contacts. Bioturbation is heavy, but decreases slightly downward. In several locations such as Section 2, 50-80 cm, original lamination is preserved. Bioturbation consists primarily of horizontal burrows with Zoophycos, and Planolites.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table style="margin-left: 40px;"> <tr> <td></td> <td>1.125</td> <td>2.51</td> </tr> <tr> <td>D</td> <td></td> <td>M</td> </tr> </table> <p>COMPOSITION:</p> <table style="margin-left: 40px;"> <tr> <td>Accessory minerals</td> <td>1</td> <td>1</td> </tr> <tr> <td>Clay</td> <td>8</td> <td>15</td> </tr> <tr> <td>Dolomite</td> <td>3</td> <td>—</td> </tr> <tr> <td>Feldspar</td> <td>—</td> <td>1</td> </tr> <tr> <td>Foraminifers</td> <td>15</td> <td>5</td> </tr> <tr> <td>Nannofossils</td> <td>71</td> <td>77</td> </tr> <tr> <td>Quartz</td> <td>2</td> <td>1</td> </tr> </table>		1.125	2.51	D		M	Accessory minerals	1	1	Clay	8	15	Dolomite	3	—	Feldspar	—	1	Foraminifers	15	5	Nannofossils	71	77	Quartz	2	1
	1.125	2.51																																				
D		M																																				
Accessory minerals	1	1																																				
Clay	8	15																																				
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Foraminifers	15	5																																				
Nannofossils	71	77																																				
Quartz	2	1																																				
A/M CONIACIAN - UPPER TURONIAN					0.5																																	
A/M CC11 - CC13					1																																	
Barten					2																																	
Barten					CC																																	
	(CaCO <sub>3</sub> =66.2%)																																					
	(CaCO <sub>3</sub> =83.4%)																																					
	(CaCO <sub>3</sub> =39.4%)																																					
	(CaCO <sub>3</sub> =2.1%)																																					
	(CaCO <sub>3</sub> =84.0%)																																					



SITE 763 HOLE B CORE 21X CORED INTERVAL 370.5-380.0 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											PALYMNORPHS																							
UPPER TURONIAN																																					
A/M	TURNONIAN ( <i>H. helvetica</i> )												<p>NANNOFOSSIL CHALK WITH CLAY AND CLAYEY NANNOFOSSIL CHALK</p> <p>The core is heavily biscuted, with 40-50% drilling slurry.</p> <p>Major lithologies: NANNOFOSSIL CHALK with CLAY, light greenish gray (5G 7/1) and CLAYEY NANNOFOSSIL CHALK, greenish gray (5G 6/1). The strong disturbance of the (core drilling biscuits) has obliterated all evidence of possible cyclicity. Foraminifers are present but minor. Very fine pyrite crystals are scattered in Sections 2 and CC.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>1, 75</td> <td>CC, 40</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Carbonate grains</td> <td>—</td> <td>7</td> </tr> <tr> <td>Clay</td> <td>10</td> <td>15</td> </tr> <tr> <td>Dolomite</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>7</td> <td>5</td> </tr> <tr> <td>Nannofossils</td> <td>80</td> <td>70</td> </tr> <tr> <td>Opales</td> <td>3</td> <td>3</td> </tr> </table>		1, 75	CC, 40	D	D	D	Carbonate grains	—	7	Clay	10	15	Dolomite	Tr	—	Foraminifers	7	5	Nannofossils	80	70	Opales	3	3
	1, 75	CC, 40																																			
D	D	D																																			
Carbonate grains	—	7																																			
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Dolomite	Tr	—																																			
Foraminifers	7	5																																			
Nannofossils	80	70																																			
Opales	3	3																																			
A/M	CC11 - CC13				$V = 1.91$ $X = 0.39$ $Z = 2.23$	CaCO <sub>3</sub> 77.6%	1	0.5																													
Barren						CaCO <sub>3</sub> 53.7%	2	1.0																													
Barren					$V = 1.71$ $X = 1.99$ $Z = 2.23$	CaCO <sub>3</sub> 50.2%	CC																														

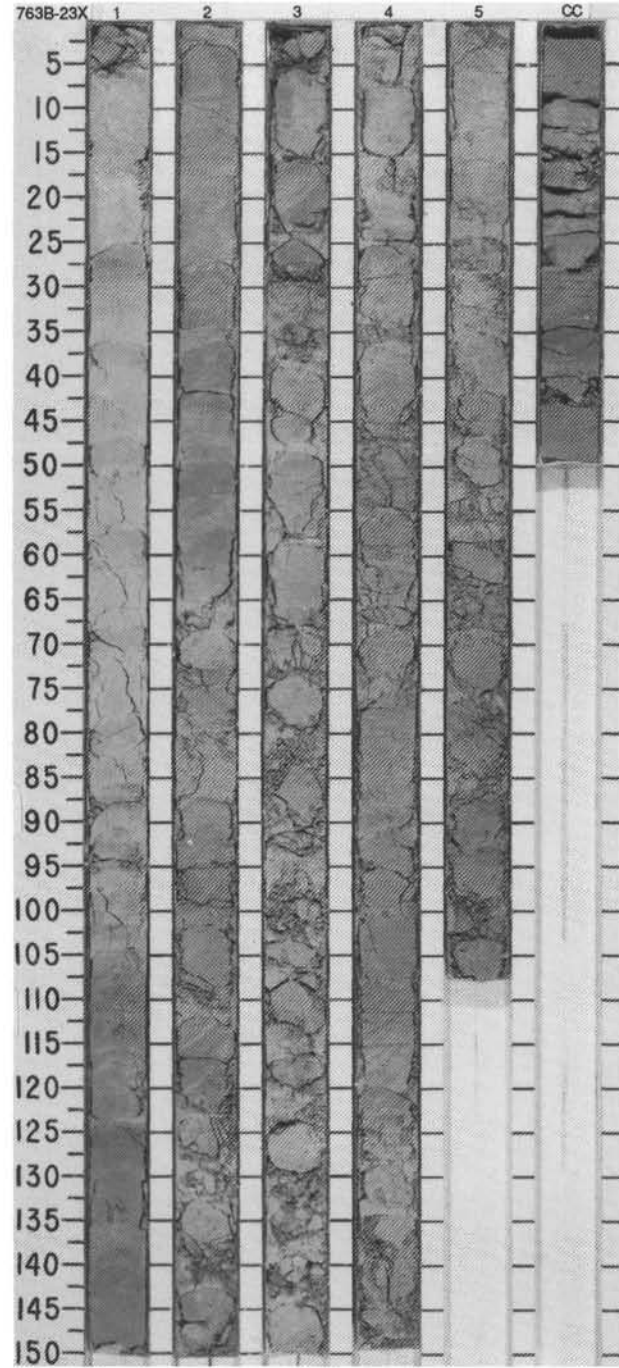


SITE 763 HOLE B CORE 22X CORED INTERVAL 380.0-389.5 mbsf

TIME - ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																							
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																														
	PALYNOFORMPHS																																	
	PALEOMAGNETICS																																	
LOWER TURONIAN	LOWER TURONIAN ( <i>W. archaeocretacea</i> )				1	0.5				<p>NANNOFOSSIL CHALK WITH CLAY AND CLAYEY NANNOFOSSIL CHALK</p> <p>Major lithologies: NANNOFOSSIL CHALK WITH CLAY and CLAYEY NANNOFOSSIL CHALK, slightly darker than the previous core (mixed light greenish gray [5G 7/1] to greenish gray [5G 6/1] to grayish green [5G 5/2]). Cyclicity in Section 1, with three darker intervals (grayish green dominant) separated by two lighter intervals (light greenish gray dominant), each about 20 cm thick. Contacts are gradational, and all are bioturbated. The base of the core is more homogeneous (grayish green). Very fine pyrite crystals are scattered throughout.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td>1</td> <td>56</td> <td>CC, 7</td> </tr> <tr> <td>D</td> <td></td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Carbonate grains</td> <td>2</td> <td>7</td> </tr> <tr> <td>Clay</td> <td>17</td> <td>15</td> </tr> <tr> <td>Dolomite</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Foraminifers</td> <td>2</td> <td>3</td> </tr> <tr> <td>Nannofossils</td> <td>78</td> <td>75</td> </tr> <tr> <td>Quartz</td> <td>-</td> <td>Tr</td> </tr> </table>	1	56	CC, 7	D		D	Carbonate grains	2	7	Clay	17	15	Dolomite	1	Tr	Foraminifers	2	3	Nannofossils	78	75	Quartz	-	Tr
1	56	CC, 7																																
D		D																																
Carbonate grains	2	7																																
Clay	17	15																																
Dolomite	1	Tr																																
Foraminifers	2	3																																
Nannofossils	78	75																																
Quartz	-	Tr																																
A/M	LOWER TURONIAN				2	1.0																												
A/M	CC11-CC13				CC																													
LOWER TURONIAN / UPPER CENOMANIAN ( <i>O. somphedia</i> )		Barten		$\text{CaCO}_3 = 57.0\%$																														
<p>PHYC. PROPERTIES  <math>V = 1.74</math> <math>\frac{0.42}{0.25}</math>  <math>P = 2.38</math></p>		<p>PALEOMAGNETICS  <math>0.43.3</math>  <math>0.52.01</math></p>		<p>CHEMISTRY  <math>\text{CaCO}_3 = 75.6\%</math>  <math>\text{TOC} = 0.20\%</math></p>																														

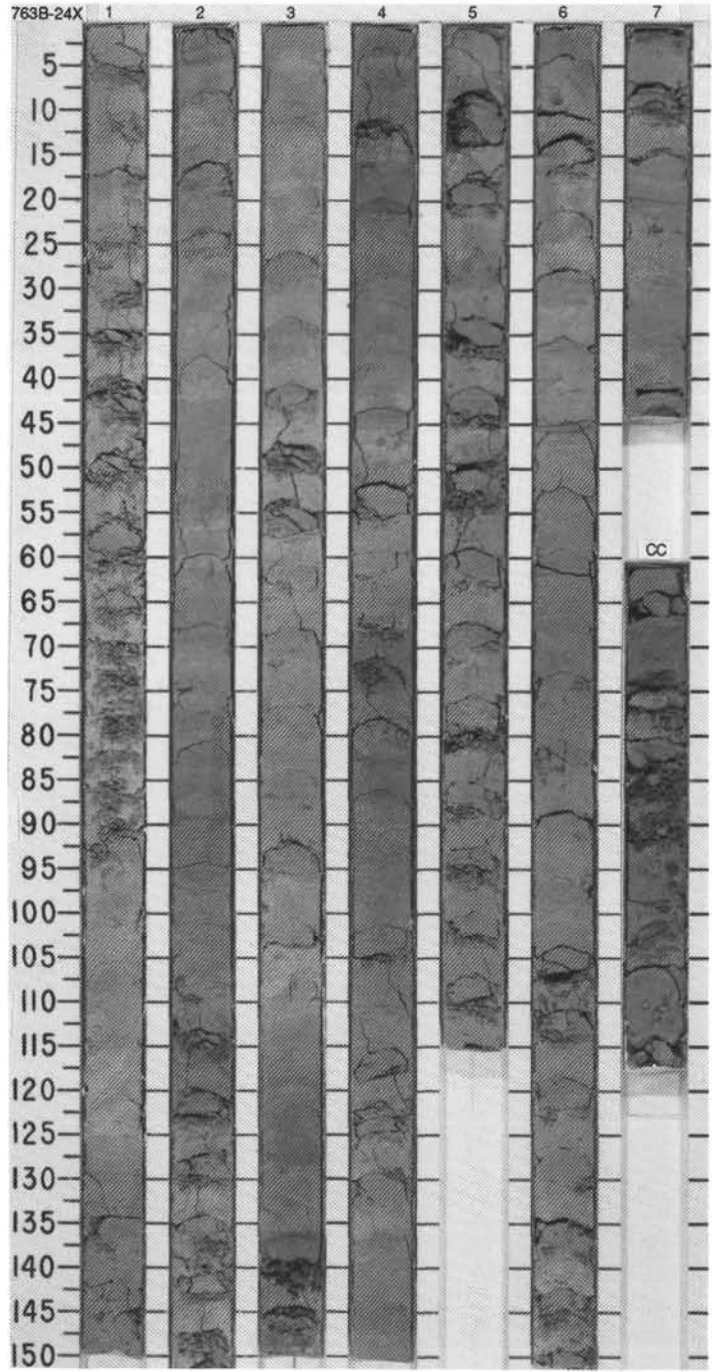


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																								
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONES																																																	
UPPER CENOMANIAN													<p>CLAYEY NANNOFOSSIL CHALK AND NANNOFOSSIL CLAYSTONE</p> <p>The core is slightly to strongly disturbed by drilling. In Section 1, small drilling biscuits, 3-5 cm long are included in drilling slurry intervals, 7-10 cm long, so that the percentage of undisturbed rock in the section ranges from 30 to 40%.</p> <p>Major lithologies:                      CLAYEY NANNOFOSSIL CHALK, light greenish gray (5G 7/1), and NANNOFOSSIL CLAYSTONE, greenish gray (5G 6/1). Cyclic color differences and changes in composition are extremely subtle. Mica is present in trace amounts (up to 3%) in the most clay-rich lithologies. Scattered dolomite rhombs were noted. Both lithologies are intensely bioturbated. Either vertical or horizontal burrows are present, and these latter mimic layering. Burrows are filled with gray (5Y 5/1) claystone with nannofossils.</p> <p>Minor lithology: Quartzose, cemented very fine sandstone to siltstone, greenish gray (5G 6/1), poorly sorted, 2 cm thick layer in Section 3, 28-30 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 49</td> <td>2, 119</td> <td>3, 28</td> <td>4, 140</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>M</td> <td>M</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>20</td> <td>55</td> <td>—</td> <td>75</td> </tr> <tr> <td>Dolomite</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>2</td> <td>2</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>Tr</td> <td>Tr</td> <td>2</td> <td>3</td> </tr> <tr> <td>Nannofossils</td> <td>78</td> <td>43</td> <td>—</td> <td>22</td> </tr> <tr> <td>Quartz</td> <td>—</td> <td>—</td> <td>98</td> <td>—</td> </tr> </table>		1, 49	2, 119	3, 28	4, 140	D	D	D	M	M	Clay	20	55	—	75	Dolomite	—	Tr	—	—	Foraminifers	2	2	Tr	—	Mica	Tr	Tr	2	3	Nannofossils	78	43	—	22	Quartz	—	—	98	—
	1, 49	2, 119	3, 28	4, 140																																																	
D	D	D	M	M																																																	
Clay	20	55	—	75																																																	
Dolomite	—	Tr	—	—																																																	
Foraminifers	2	2	Tr	—																																																	
Mica	Tr	Tr	2	3																																																	
Nannofossils	78	43	—	22																																																	
Quartz	—	—	98	—																																																	
UPPER CENOMANIAN ( <i>R. cushmani</i> )					V-1.88 $\frac{0.40-4}{2.2-0.1}$ CaCO <sub>3</sub> =61.3%	1	0.5				*																																										
Barren					V-1.88	2	1.0				*																																										
Barren					0.46.9 V-1.75 1.38 CaCO <sub>3</sub> =59.1% TOC=0.20%	3					*																																										
						4					*																																										
						5					*																																										
						CC																																															

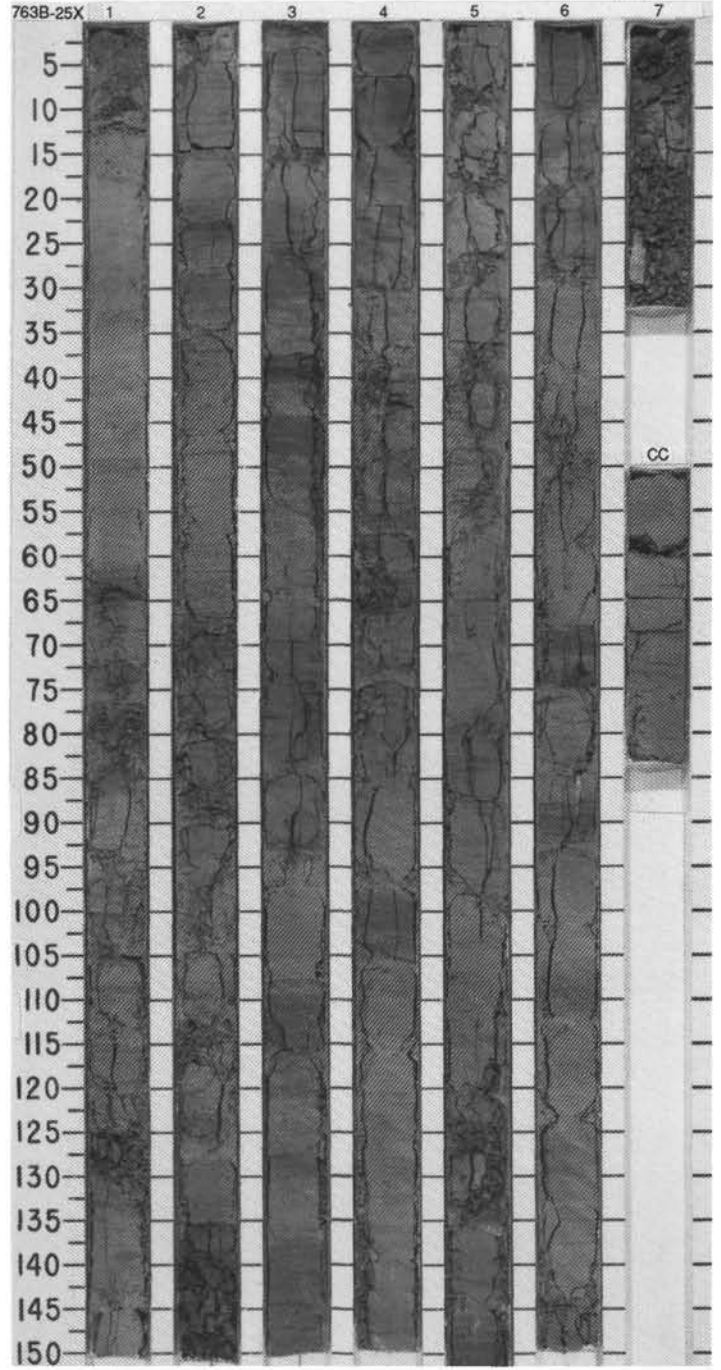
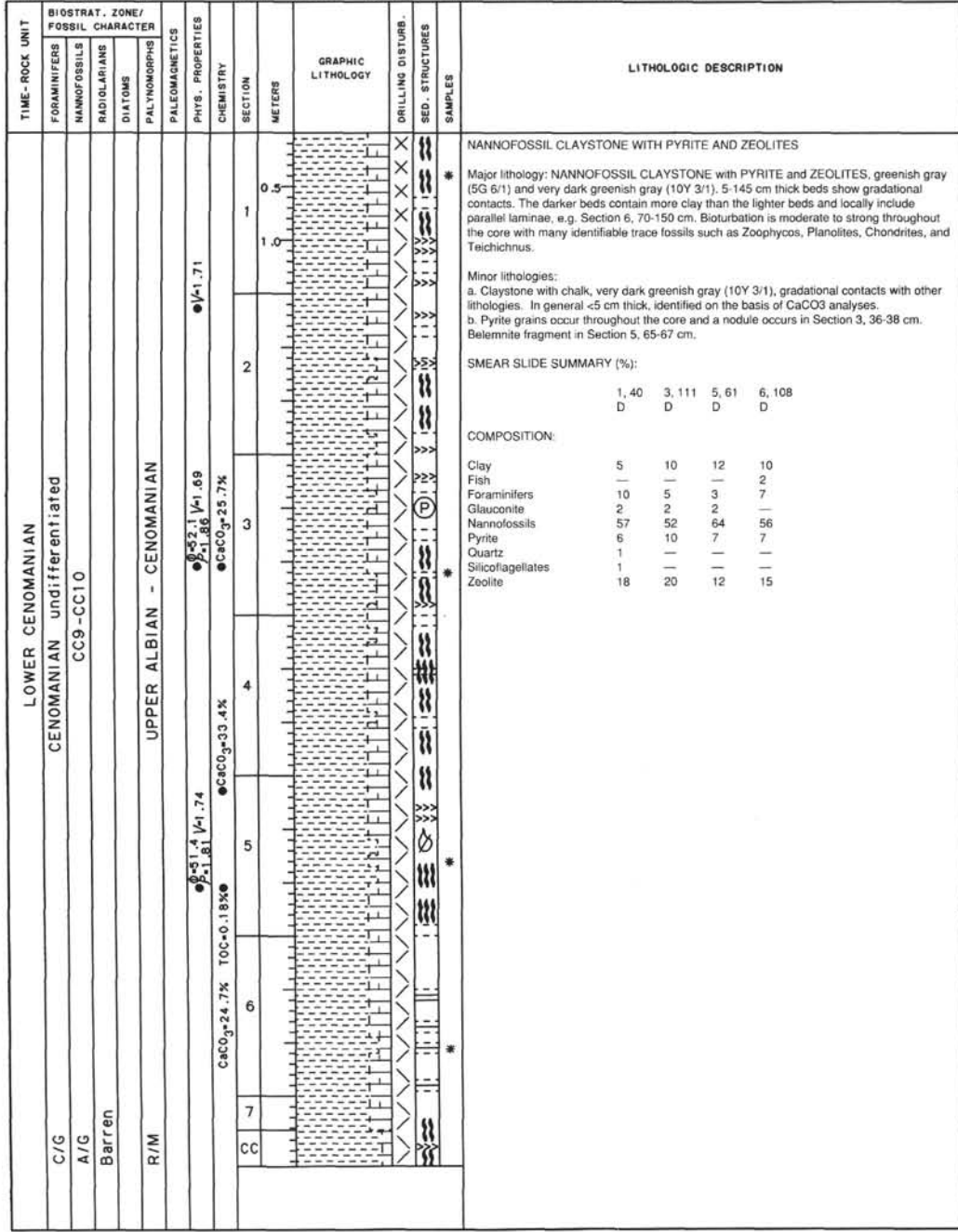


SITE 763 HOLE B CORE 24X CORED INTERVAL 399.0-408.5 mdsf

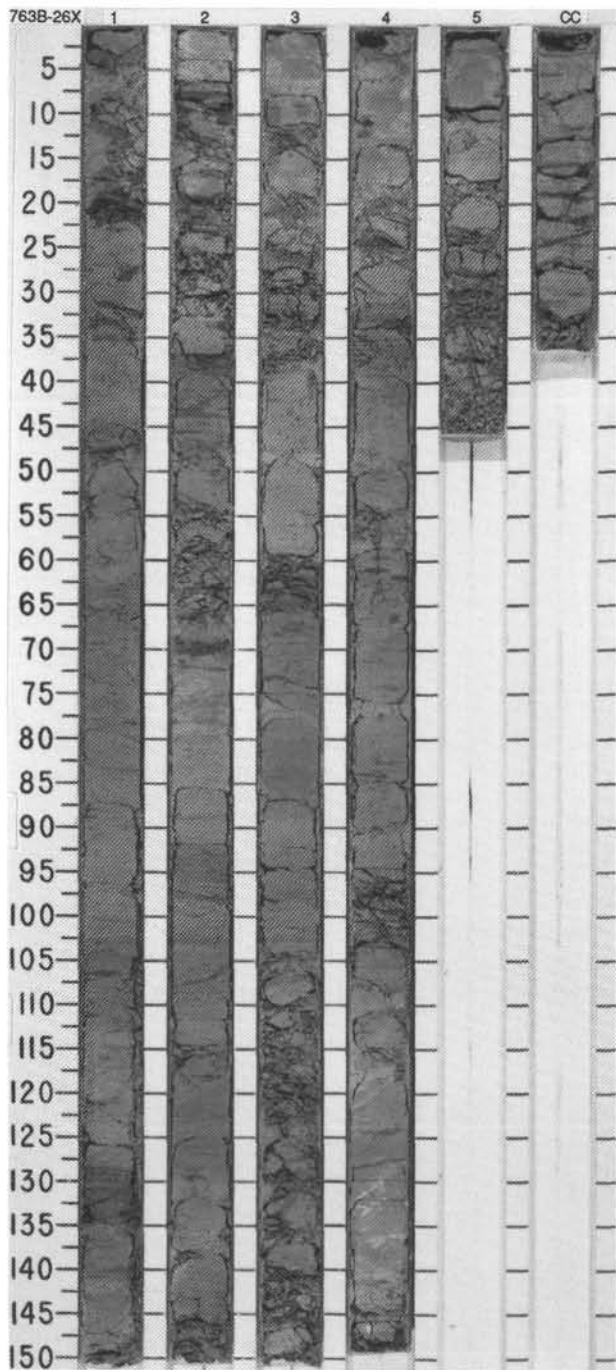
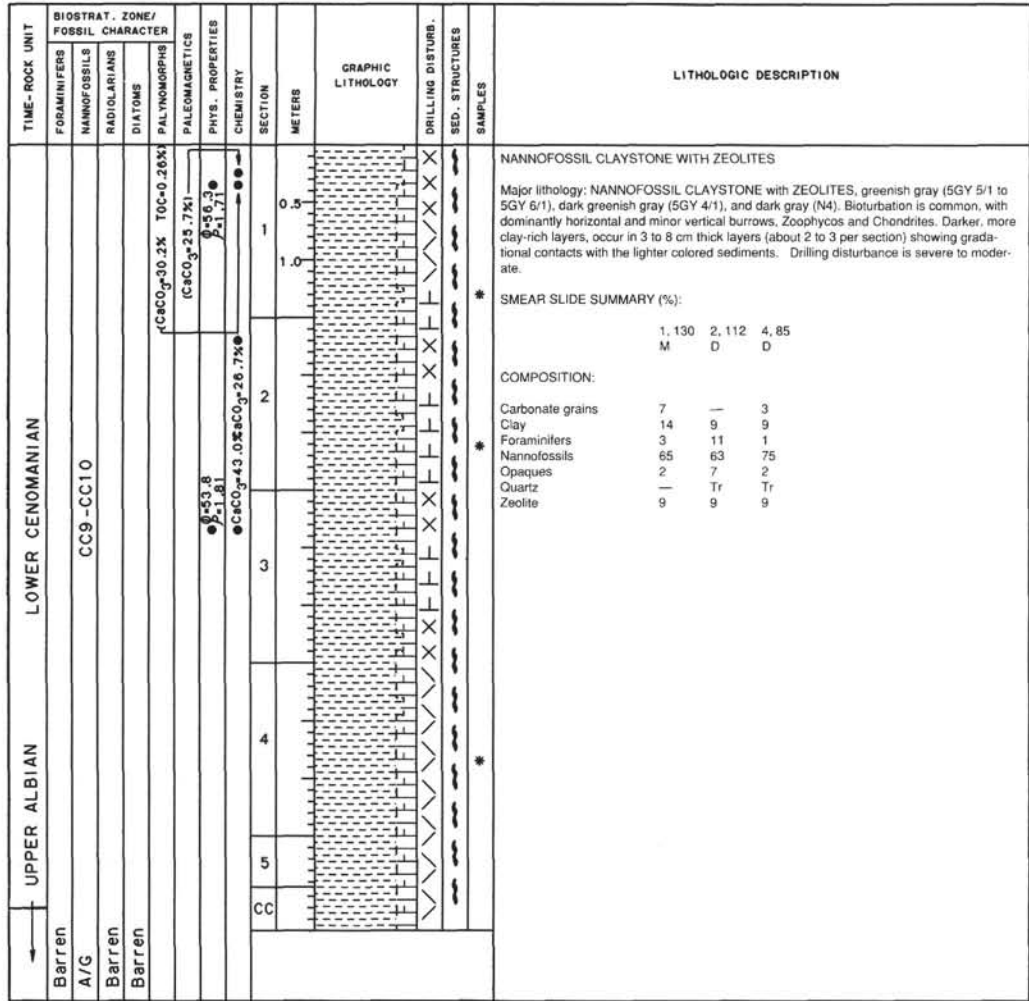
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																								
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONS								PALYNOMORPHS	PHYS. PROPERTIES	CHEMISTRY																																					
C/G	CENOMANIAN undifferentiated										<p>CLAYEY NANNOFOSSIL CHALK, CLAYEY NANNOFOSSIL CHALK WITH ZEOLITES, AND NANNOFOSSIL CLAYSTONE</p> <p>Core is highly disturbed and biscuted.</p> <p>Major lithologies: CLAYEY NANNOFOSSIL CHALK and CLAYEY NANNOFOSSIL CHALK WITH ZEOLITES, light greenish gray (5Y 7/1, 5GY 7/1) with NANNOFOSSIL CLAYSTONE, gray (N5, 5Y 5/1). Moderately bioturbated chalk fragments. Teichichnus in Section 2, 52-57 cm, and Section 6, 75 cm. Planolites common, Chondrites rare (Section 2, 60-61 cm). Minor color alternation in Section 4. Some parallel laminations in fragments, e.g. Section 3, 115 cm. Clinoptilolite (zeolite) identified in smear slides.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 101</td> <td>3, 130</td> <td>5, 78</td> <td>7, 24</td> </tr> <tr> <td></td> <td>D</td> <td>M</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>35</td> <td>45</td> <td>30</td> <td>30</td> </tr> <tr> <td>Foraminifers</td> <td>10</td> <td>5</td> <td>10</td> <td>3</td> </tr> <tr> <td>Nannofossils</td> <td>44</td> <td>40</td> <td>43</td> <td>45</td> </tr> <tr> <td>Quartz</td> <td>3</td> <td>5</td> <td>2</td> <td>2</td> </tr> <tr> <td>Zeolite</td> <td>8</td> <td>5</td> <td>15</td> <td>15</td> </tr> <tr> <td>Pyrite</td> <td>---</td> <td>---</td> <td>---</td> <td>5</td> </tr> </table>		1, 101	3, 130	5, 78	7, 24		D	M	D	D	Clay	35	45	30	30	Foraminifers	10	5	10	3	Nannofossils	44	40	43	45	Quartz	3	5	2	2	Zeolite	8	5	15	15	Pyrite	---	---	---	5
	1, 101	3, 130	5, 78	7, 24																																															
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Pyrite	---	---	---	5																																															
A/G	CENOMANIAN undifferentiated																																																		
Barren	CC9-CC10																																																		
Barren																																																			
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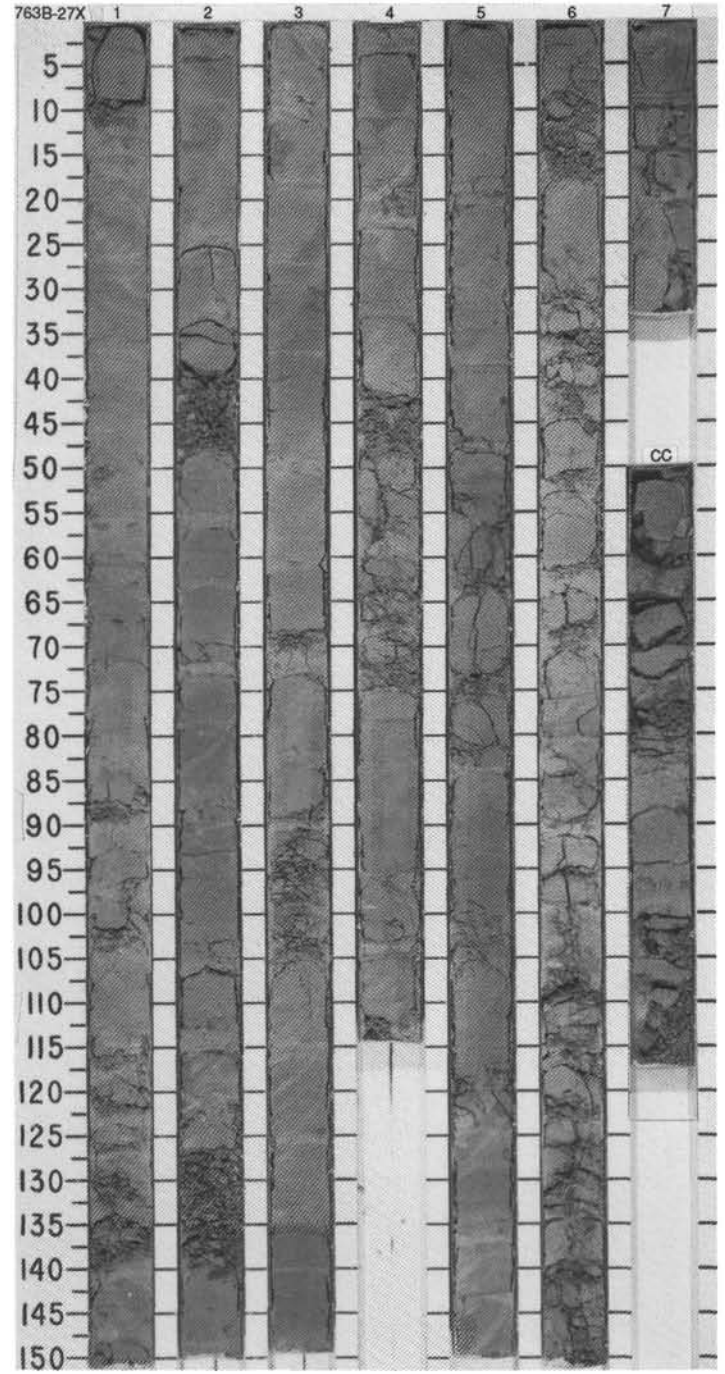
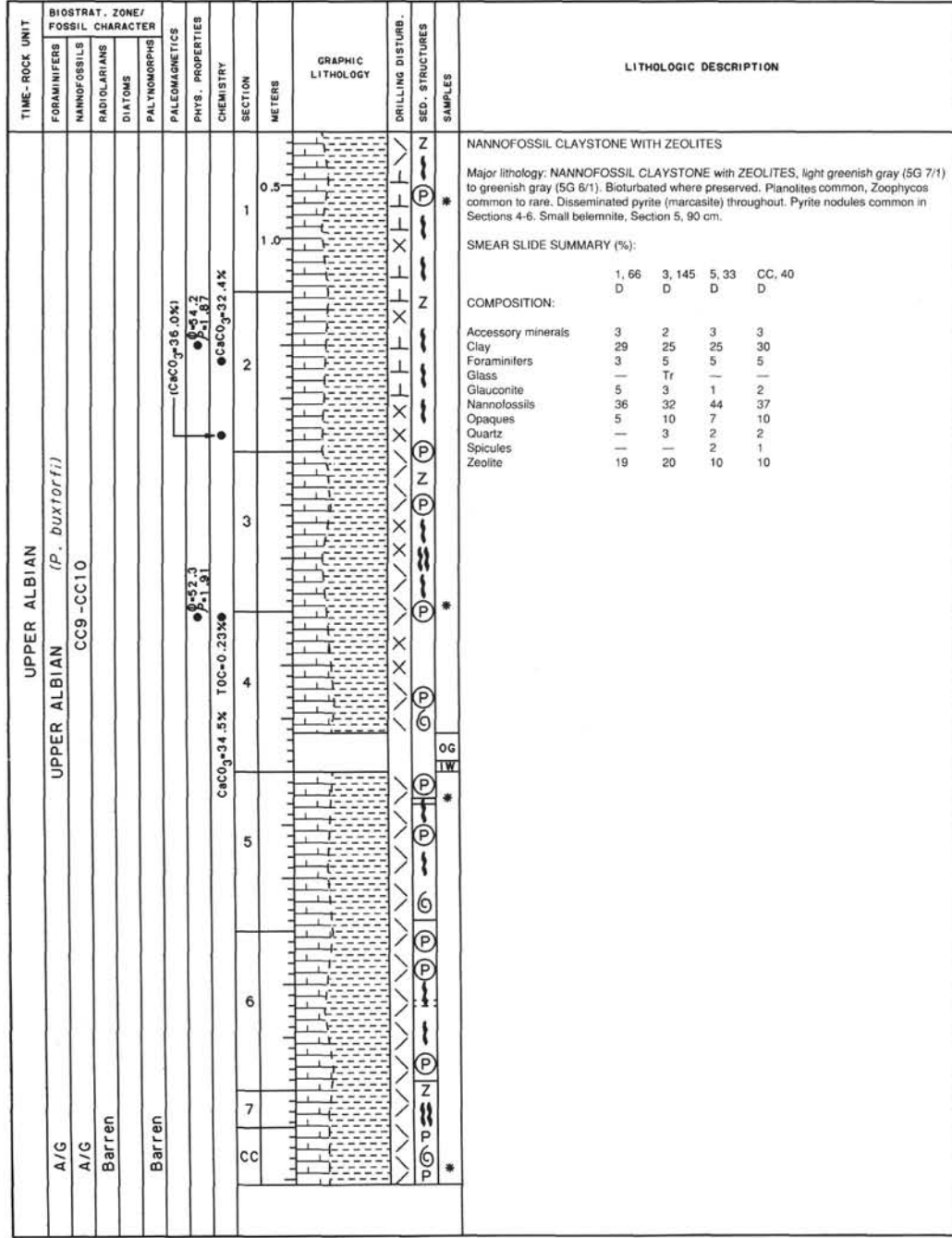




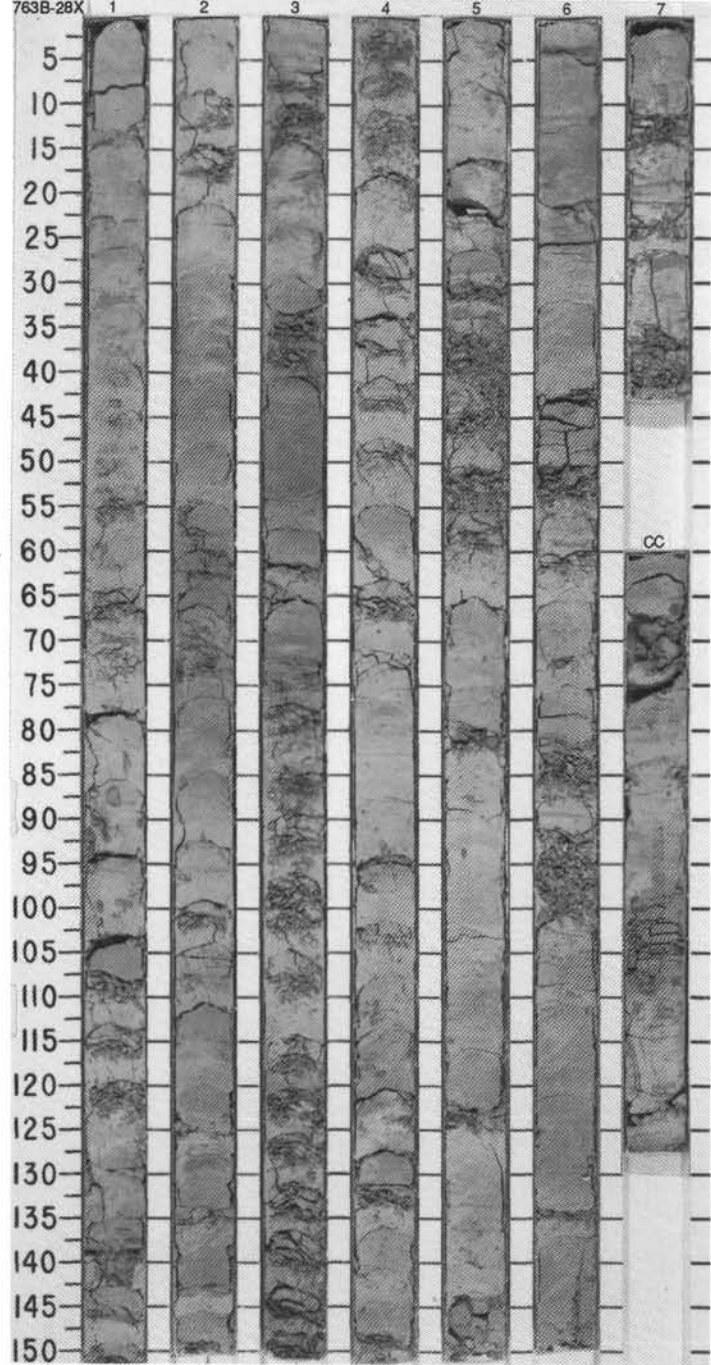
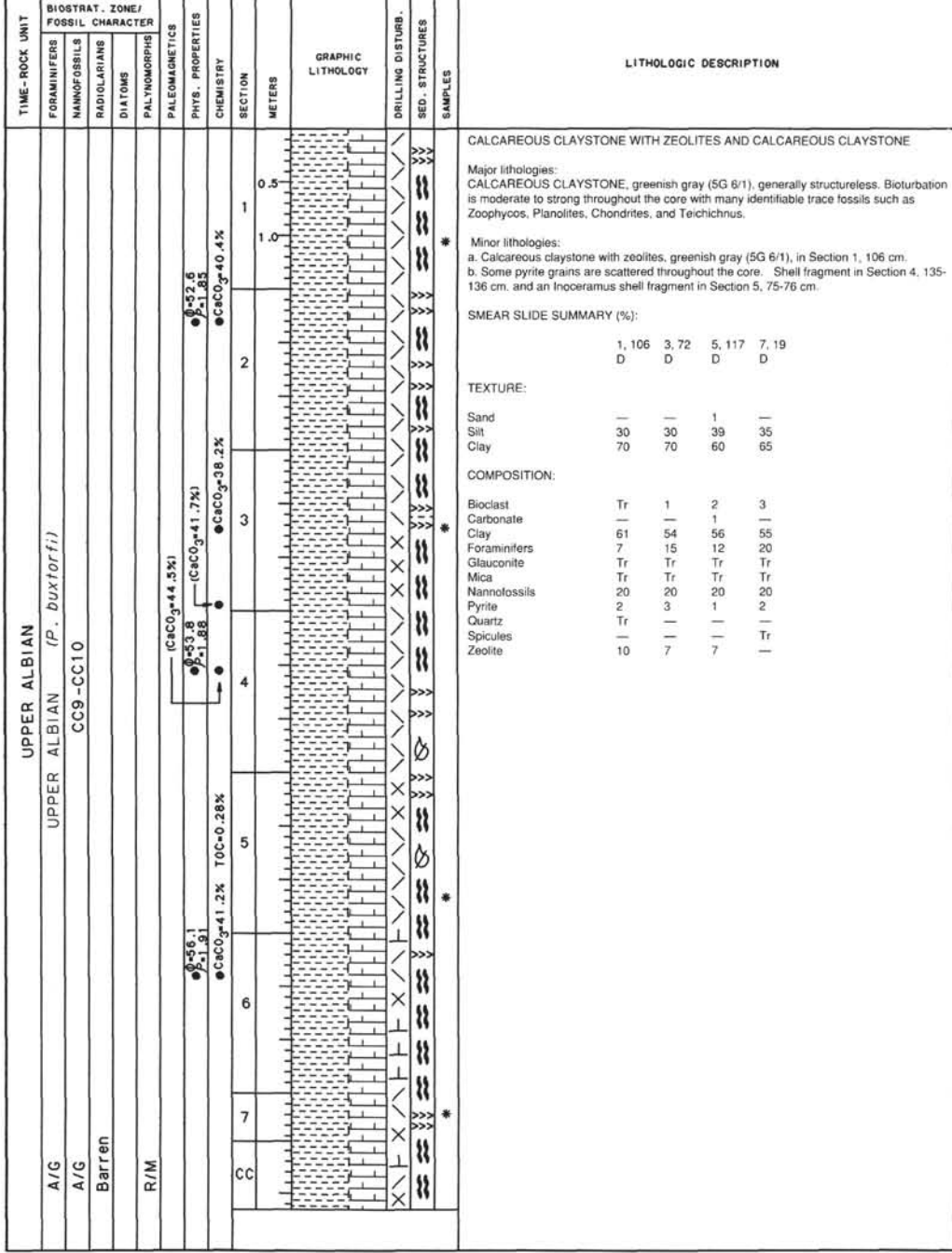
SITE 763 HOLE B CORE 26X CORED INTERVAL 418.0-427.5 mbsf



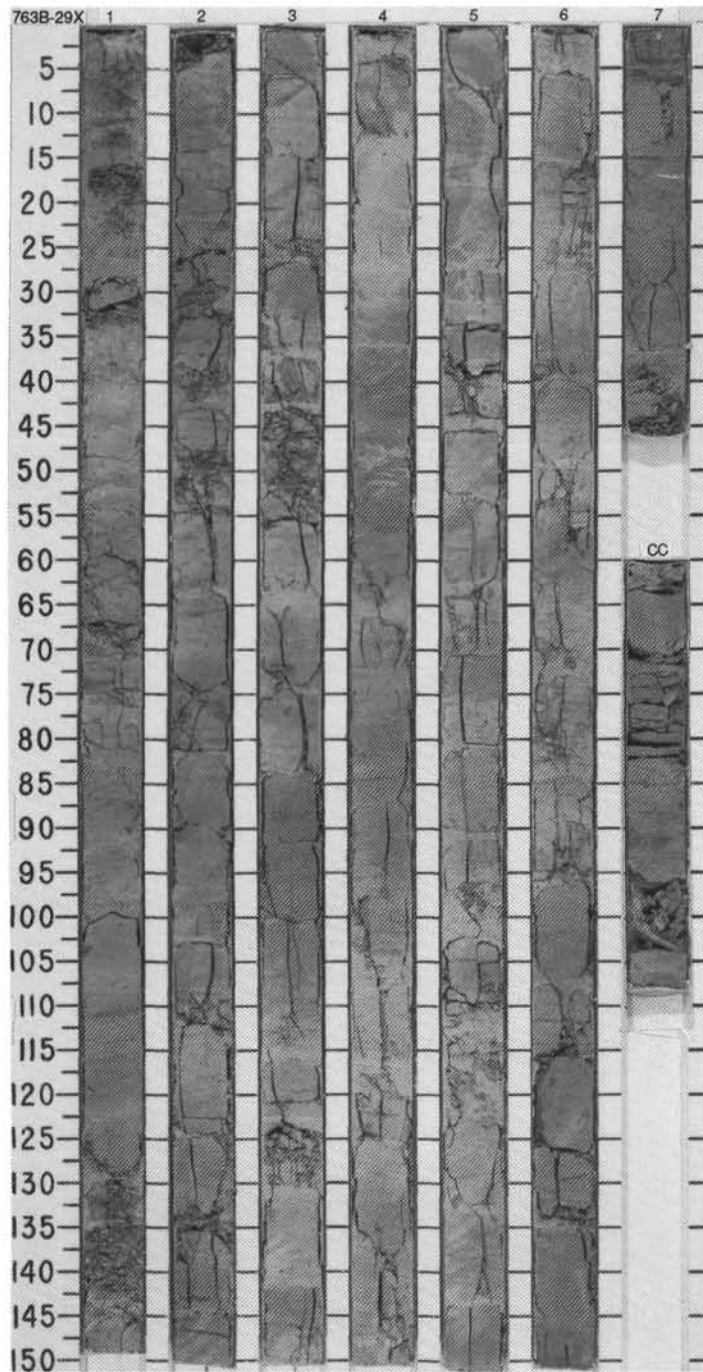
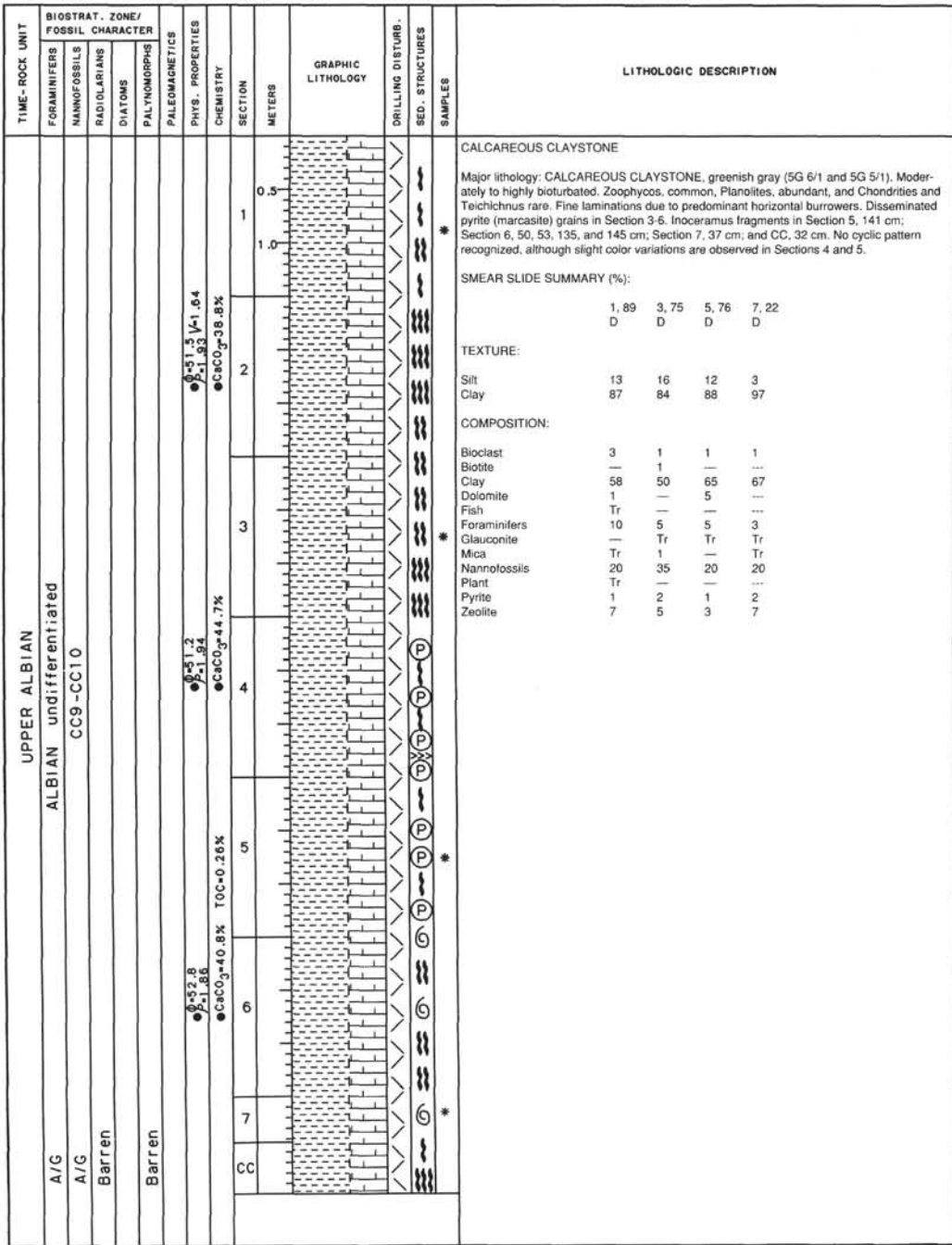
SITE 763 HOLE B CORE 27X CORED INTERVAL 427.5-437.0 mbsf



SITE 763 HOLE B CORE 28X CORED INTERVAL 437.0-446.5 mbsf



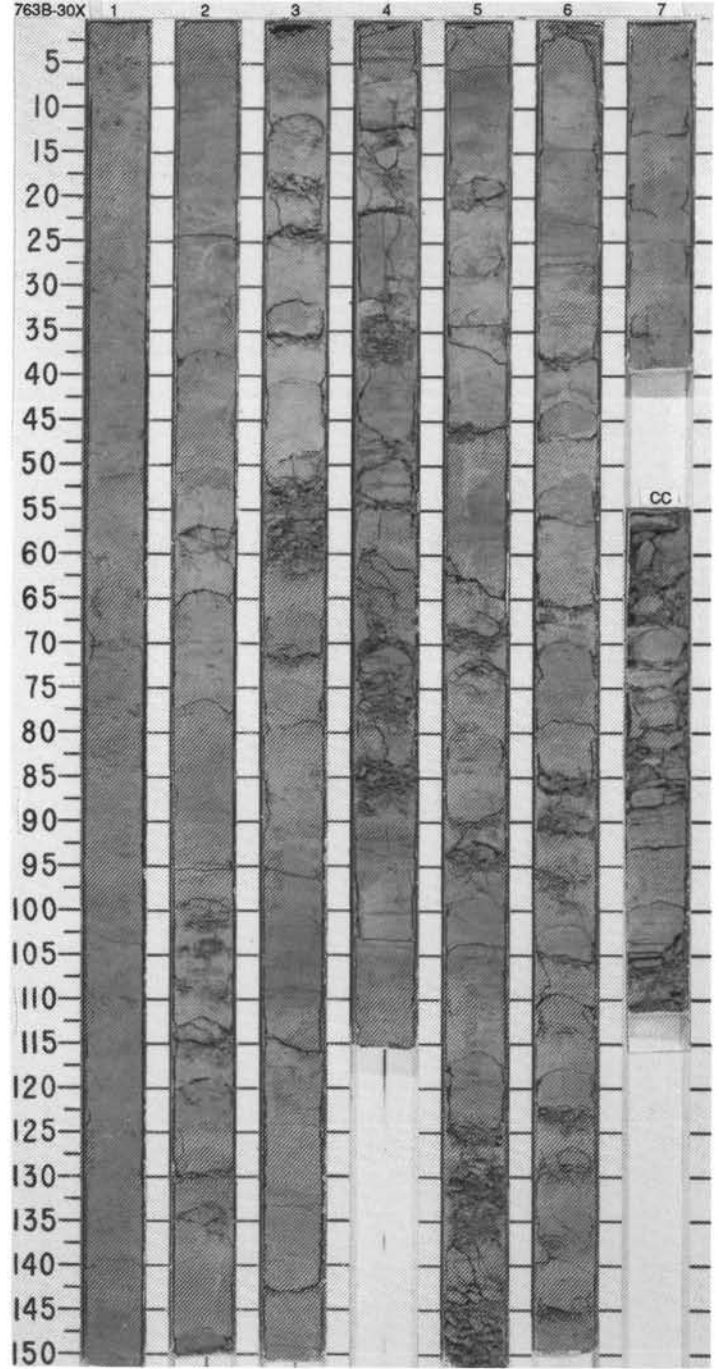


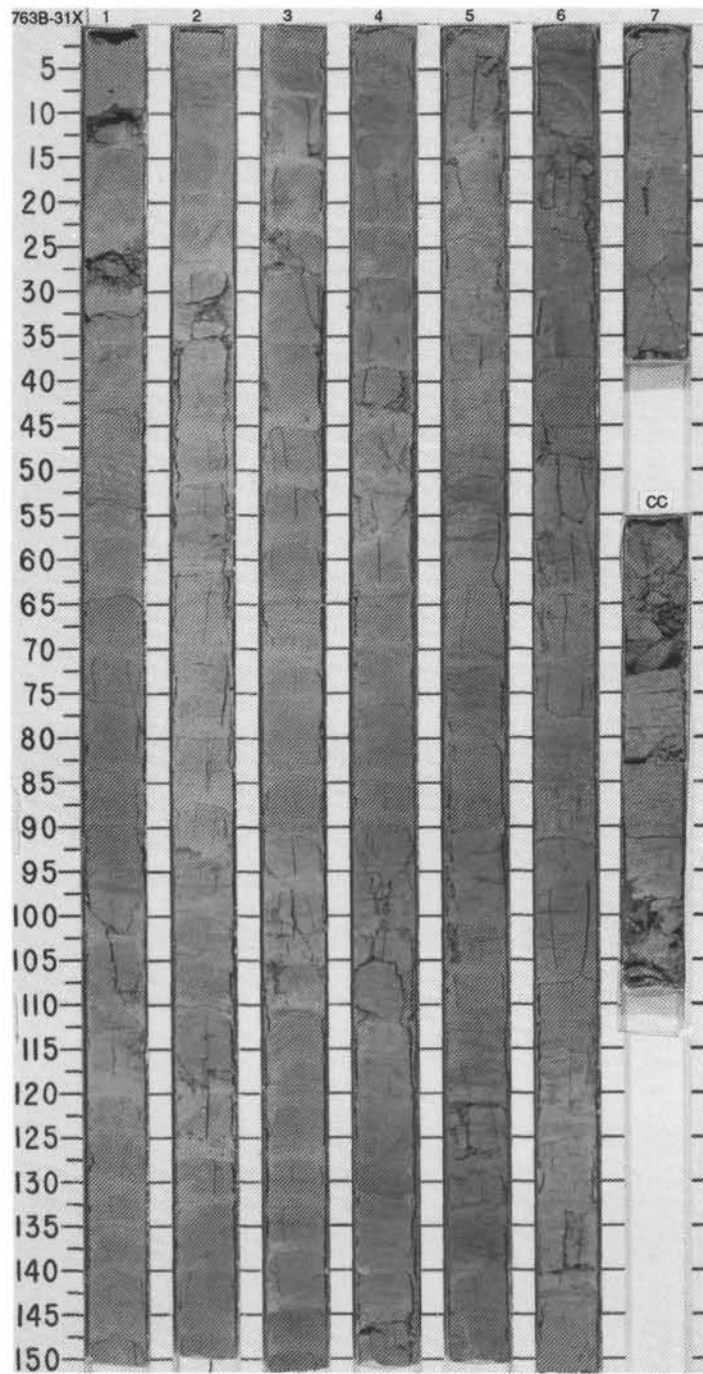
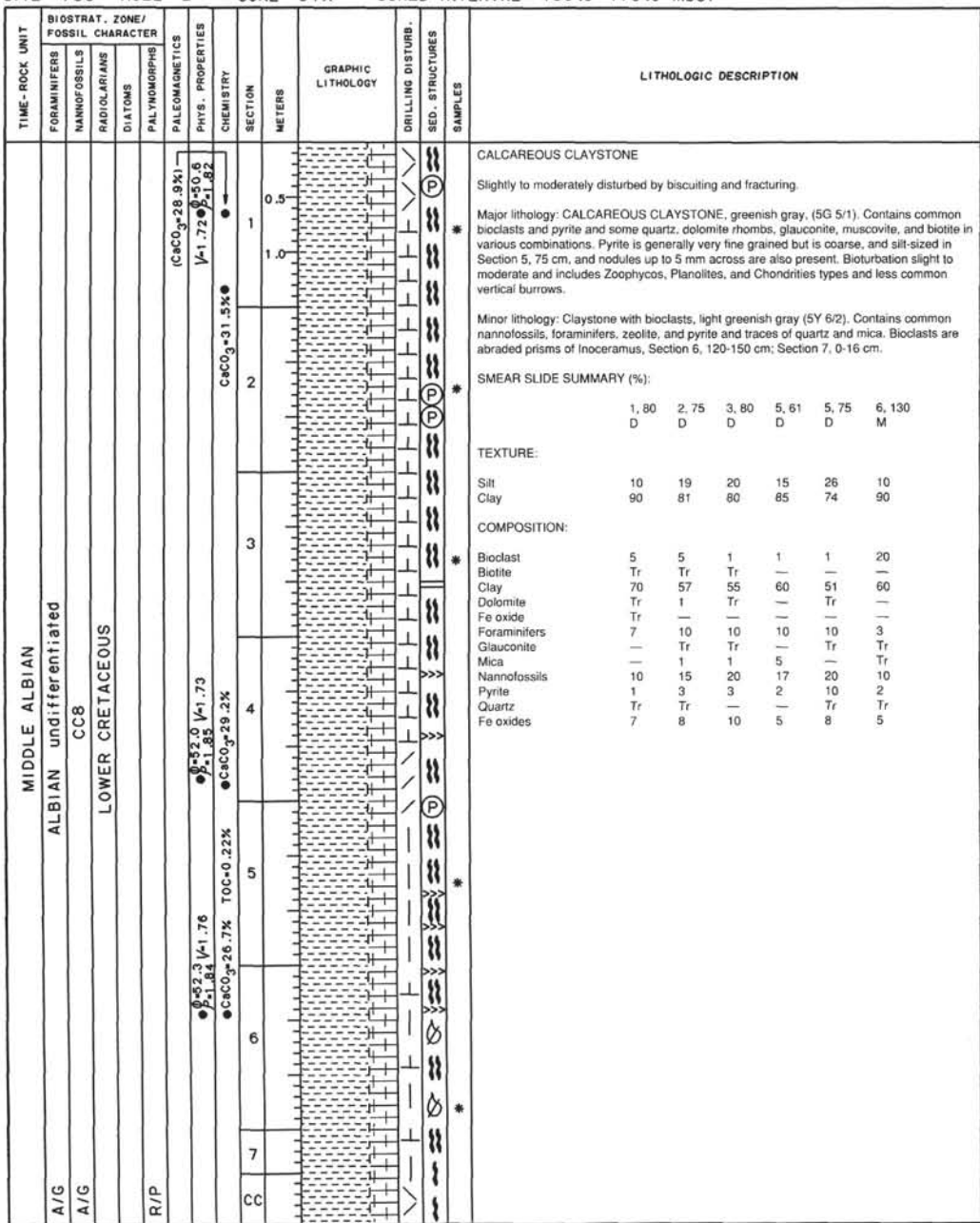




SITE 763 HOLE B CORE 30X CORED INTERVAL 456.0-465.5 mbsf

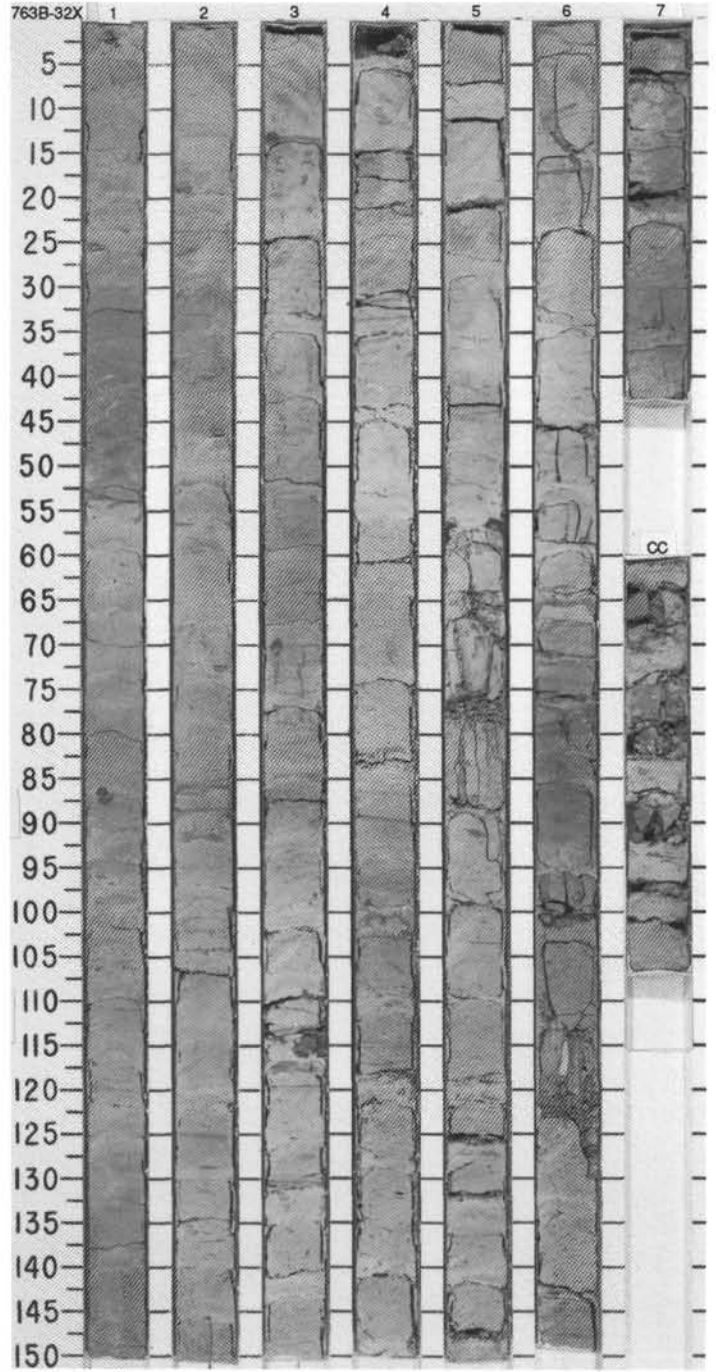
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																											
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAATOMS																																																																																					
UPPER ALBIAN	CC9-CC10					●0-51.5 ●5-1.81	●CaCO <sub>3</sub> 36.4%	1	0.5 1.0					<p>NANNOFOSSIL CLAYSTONE WITH ZEOLITES</p> <p>Core is moderately disturbed with biscuiting and fracturing. Biscuits tend to fracture while the intrabiscuit slurry is "intact". Major lithology: NANNOFOSSIL CLAYSTONE with ZEOLITES, greenish gray (5G 6/1, minor 5G 7/1) with gray (N5 and N6) burrow fillings. Identifiable burrows include Zoophycos, Planolites, and Chondrites. Most burrows show excellent preservation. Slight evidence of parallel bedding. Inoceramus fragments, commonly fragmented into powder, are present. In smear slides, clinoptilolite forms as much as 20% of the rock, and dolomite rhombs and pyrite(?) hexahedrons are present.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 125</td> <td>3, 84</td> <td>5, 105</td> <td>7, 20</td> </tr> <tr> <td>D</td> <td></td> <td></td> <td></td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Silt</td> <td>32</td> <td>40</td> <td>38</td> <td>39</td> </tr> <tr> <td>Clay</td> <td>68</td> <td>60</td> <td>62</td> <td>61</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>—</td> <td>—</td> <td>2</td> <td>—</td> </tr> <tr> <td>Bioclast</td> <td>5</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Carbonate grains</td> <td>6</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>43</td> <td>41</td> <td>41</td> <td>47</td> </tr> <tr> <td>Dolomite</td> <td>—</td> <td>4</td> <td>—</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>5</td> <td>6</td> <td>3</td> <td>3</td> </tr> <tr> <td>Mica</td> <td>—</td> <td>2</td> <td>2</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>26</td> <td>26</td> <td>26</td> <td>27</td> </tr> <tr> <td>Opalines</td> <td>2</td> <td>5</td> <td>5</td> <td>1</td> </tr> <tr> <td>Quartz</td> <td>Tr</td> <td>1</td> <td>1</td> <td>2</td> </tr> <tr> <td>Zeolite</td> <td>13</td> <td>15</td> <td>18</td> <td>20</td> </tr> </table>		1, 125	3, 84	5, 105	7, 20	D				D	Silt	32	40	38	39	Clay	68	60	62	61	Accessory minerals	—	—	2	—	Bioclast	5	—	—	—	Carbonate grains	6	—	—	—	Clay	43	41	41	47	Dolomite	—	4	—	—	Foraminifers	5	6	3	3	Mica	—	2	2	—	Nannofossils	26	26	26	27	Opalines	2	5	5	1	Quartz	Tr	1	1	2	Zeolite	13	15	18	20
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Quartz	Tr	1	1	2																																																																																					
Zeolite	13	15	18	20																																																																																					
MIDDLE ALBIAN	CC8					●0-50.0 ●5-1.82	●CaCO <sub>3</sub> 36.9% TOC=0.17%	2																																																																																	
ALBIAN undifferentiated	CC8					●0-48.5 ●5-1.82	●CaCO <sub>3</sub> 40.2%	3																																																																																	
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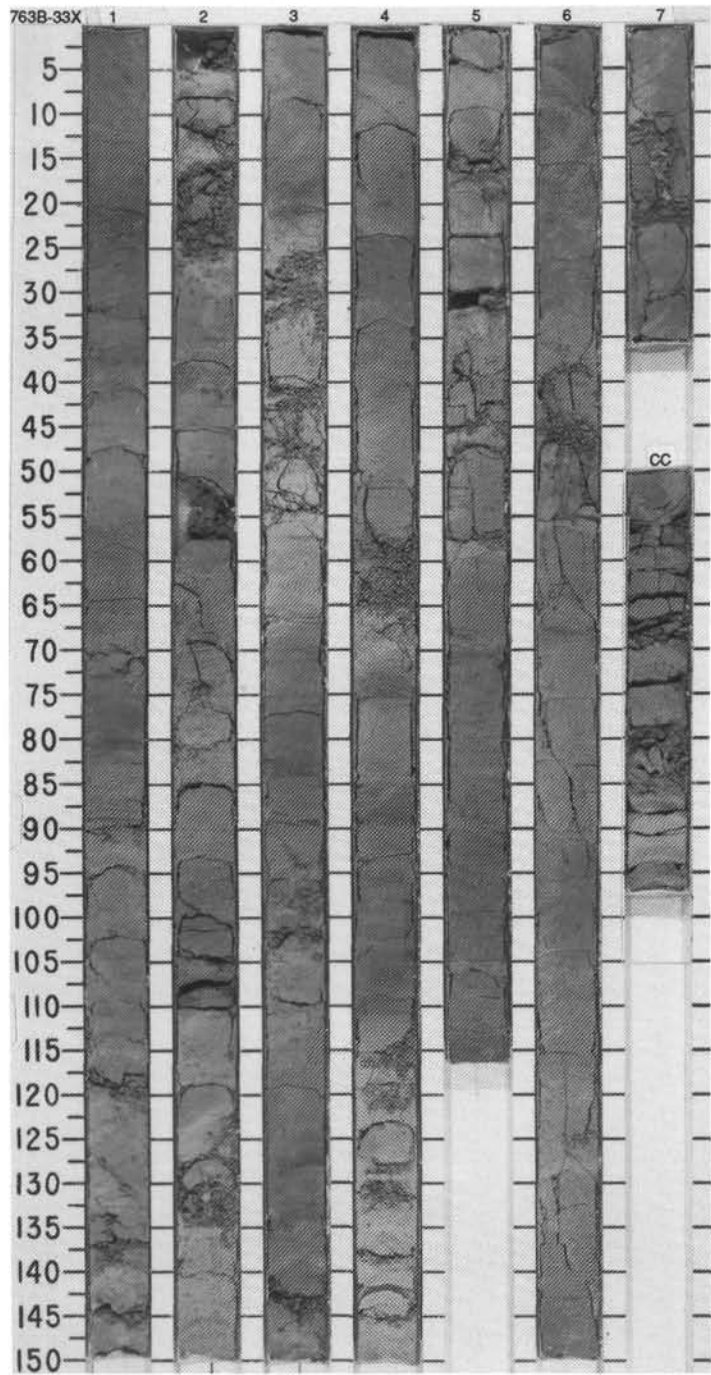
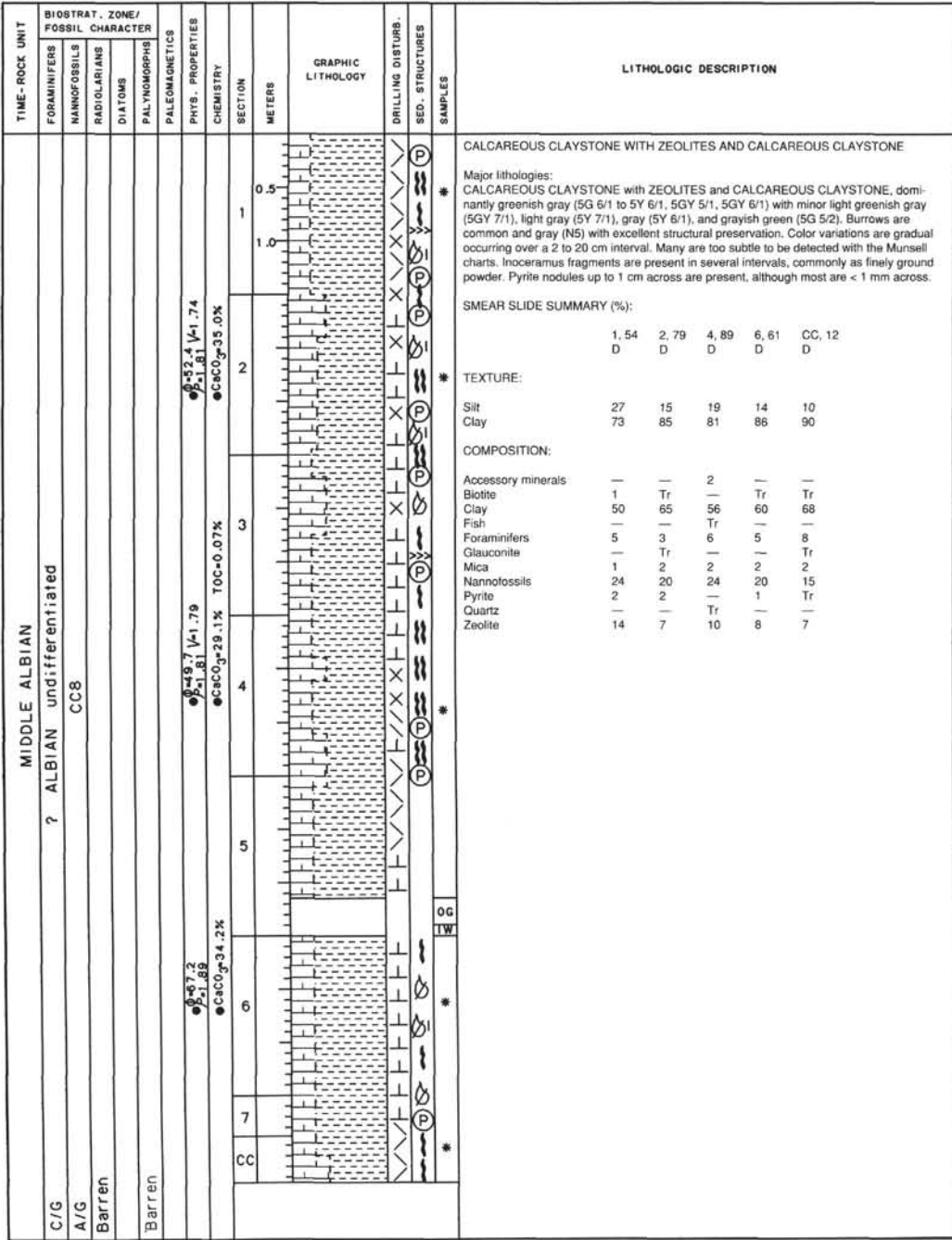




SITE 763 HOLE B CORE 32X CORED INTERVAL 475.0-484.5 mbsf

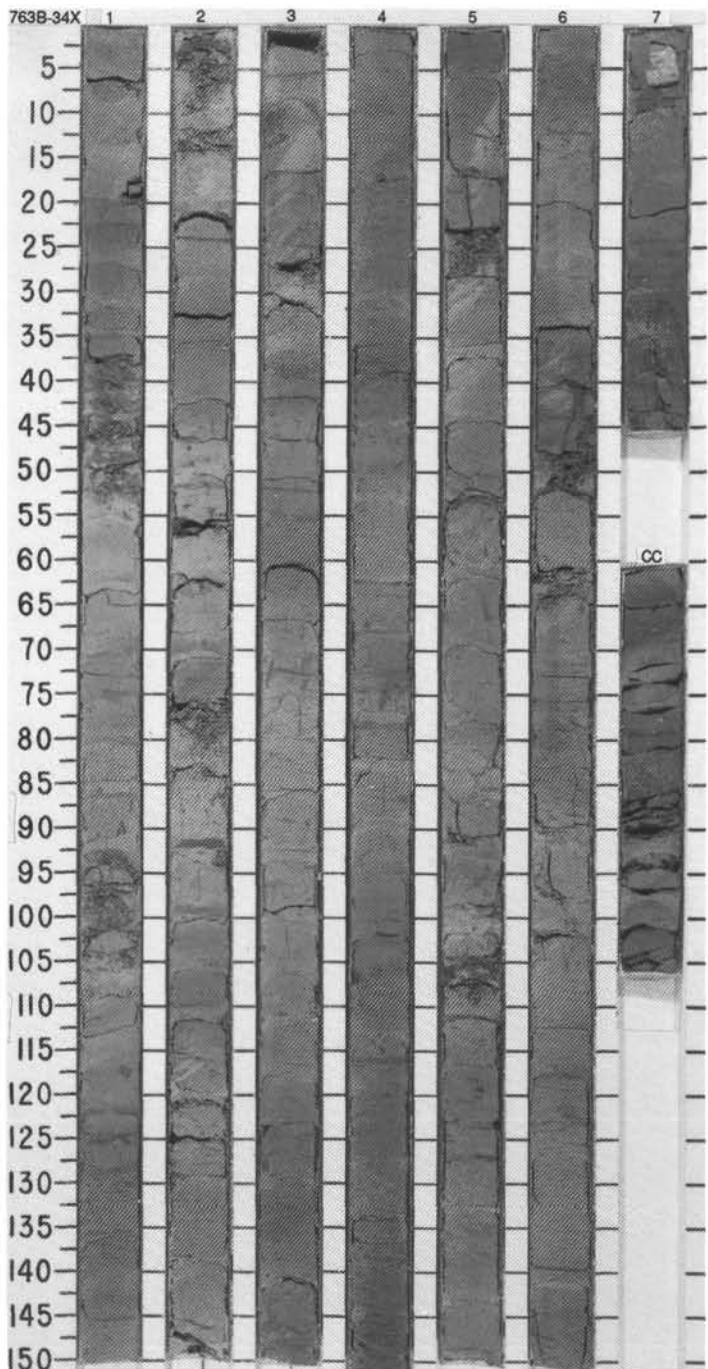
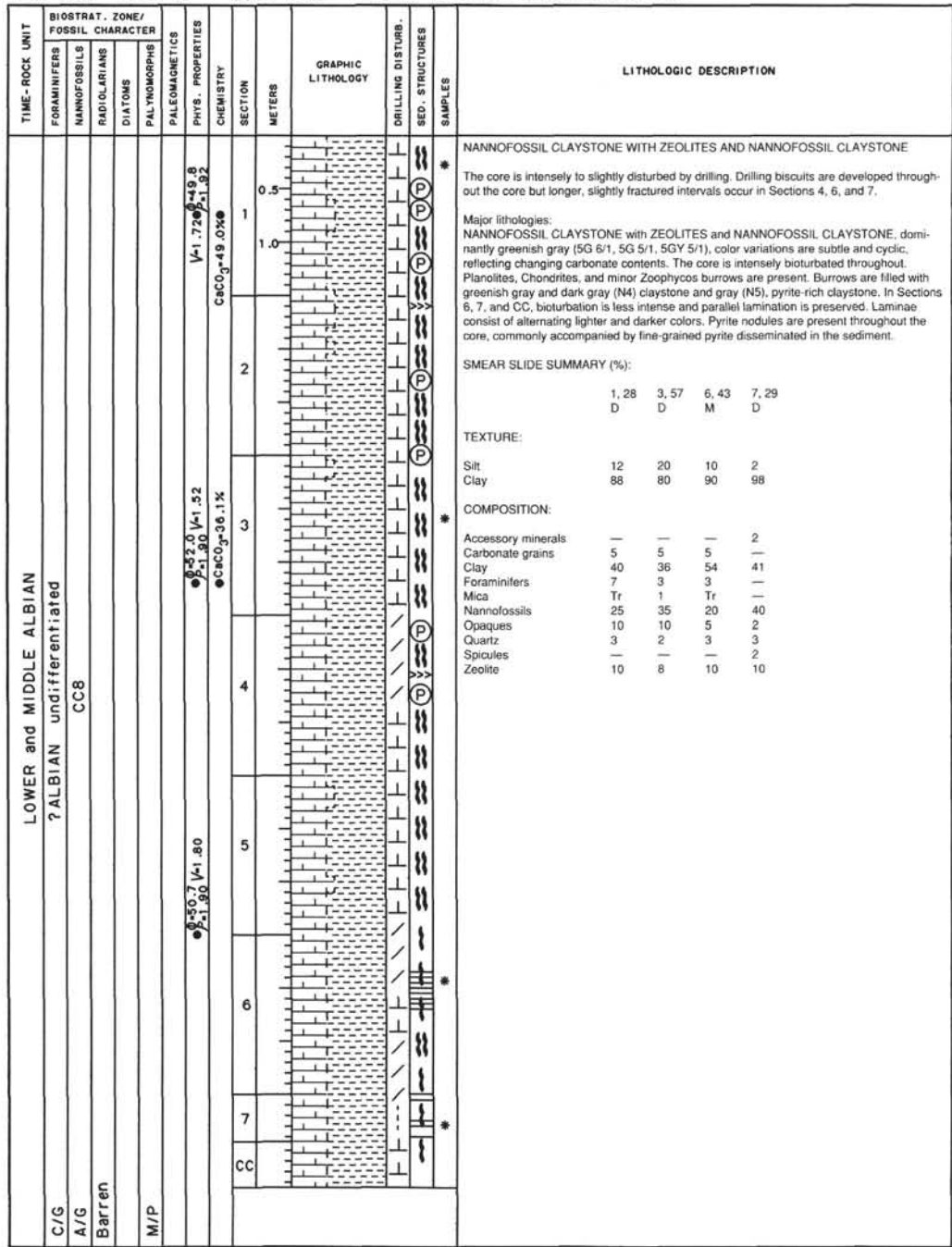
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																												
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																																																																																					
MIDDLE ALBIAN	ALBIAN undifferentiated								1				<p>CALCAREOUS CLAYSTONE WITH ZEOLITES, ZEOLITE CALCAREOUS CLAYSTONE, AND CLAYEY CHALK</p> <p>Core is moderately disturbed by drilling with drill biscuits (3-15 cm thick) alternating with mixed inter-biscuit drilling slurry (2-5 cm thick).</p> <p>Major lithologies: CALCAREOUS CLAYSTONE with ZEOLITES and ZEOLITE CALCAREOUS CLAYSTONE, greenish gray (5G 6/1 to 5GY 6/1 with minor 5G 5/1), and CLAYEY CHALK, light greenish gray (5G 7/1 to 5GY 7/1) with minor gray (N5-N6) to dark gray (N4) burrows. Gray (N5-N6) burrows, Chondrites and Planolites are abundant in Sections 1-4, with less common Zoophycos. In Sections 5-CC, burrows are less abundant with Zoophycos, Chondrites, and minor Planolites. Mottled sections with no identifiable trace fossils occur in some biscuits and increase in abundance in Sections 5-CC. Color banding with gradational boundaries occurs in Sections 6-7. Pyrite nodules and disseminated pyrite fill burrows up to 1 X 2 cm (on cut surface).</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 40</td> <td>2, 82</td> <td>3, 47</td> <td>5, 37</td> <td>6, 32</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>Silt</td> <td>—</td> <td>—</td> <td>—</td> <td>4</td> <td>3</td> </tr> <tr> <td>Clay</td> <td>100</td> <td>100</td> <td>100</td> <td>96</td> <td>97</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Biotite</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Calcite</td> <td>1</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>63</td> <td>62</td> <td>60</td> <td>58</td> <td>63</td> </tr> <tr> <td>Dolomite</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Fish</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Foraminifers</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Mica</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>2</td> <td>2</td> </tr> <tr> <td>Nannofossils</td> <td>10</td> <td>10</td> <td>15</td> <td>20</td> <td>15</td> </tr> <tr> <td>Opauques</td> <td>—</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Plant</td> <td>Tr</td> <td>Tr</td> <td>—</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Pyrite</td> <td>Tr</td> <td>Tr</td> <td>—</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Quartz</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Zeolite</td> <td>26</td> <td>28</td> <td>25</td> <td>20</td> <td>20</td> </tr> <tr> <td>Zircon</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> </tr> </table>		1, 40	2, 82	3, 47	5, 37	6, 32	D	D	D	D	D	D	Silt	—	—	—	4	3	Clay	100	100	100	96	97	Biotite	—	—	—	—	Tr	Calcite	1	Tr	Tr	Tr	Tr	Clay	63	62	60	58	63	Dolomite	Tr	—	—	—	—	Fish	—	—	—	Tr	Tr	Foraminifers	Tr	Tr	Tr	Tr	Tr	Mica	Tr	Tr	Tr	2	2	Nannofossils	10	10	15	20	15	Opauques	—	Tr	Tr	Tr	Tr	Plant	Tr	Tr	—	Tr	—	Pyrite	Tr	Tr	—	Tr	Tr	Quartz	Tr	Tr	Tr	Tr	Tr	Zeolite	26	28	25	20	20	Zircon	—	—	—	Tr	—
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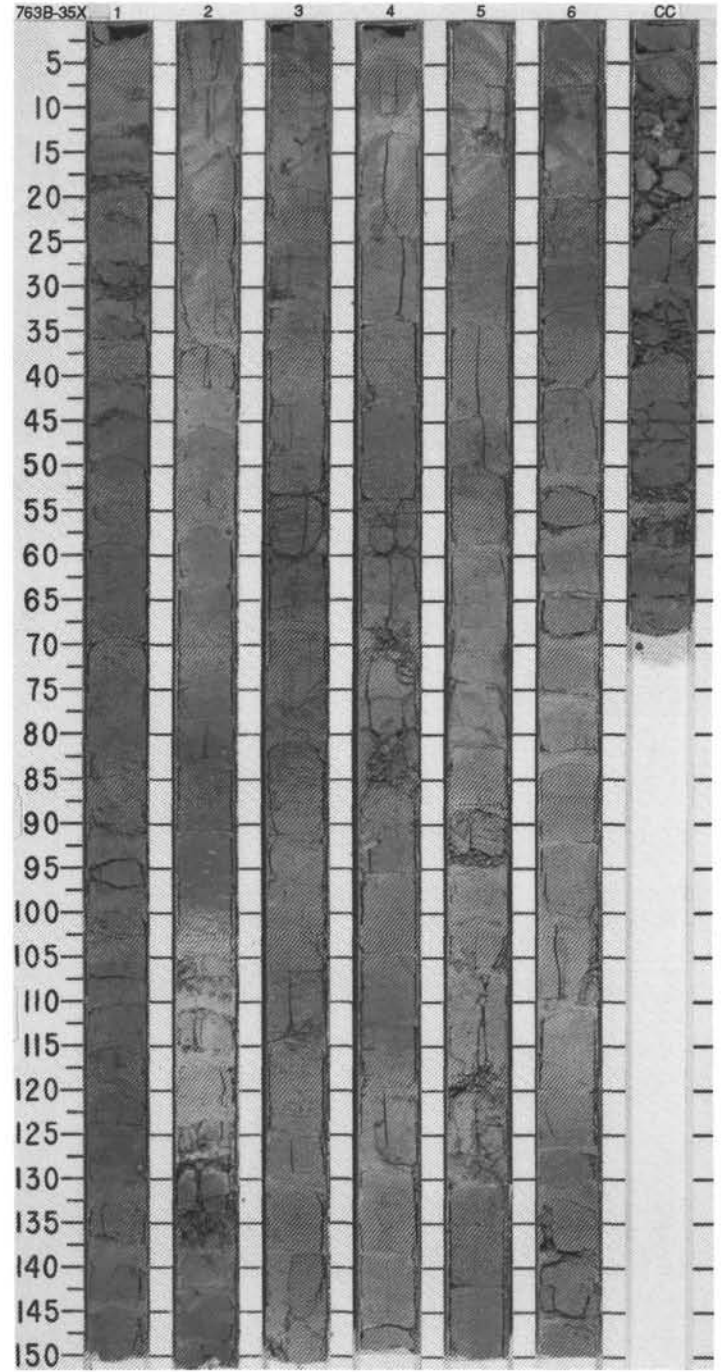


SITE 763 HOLE B CORE 34X CORED INTERVAL 494.0-503.5 mbsf



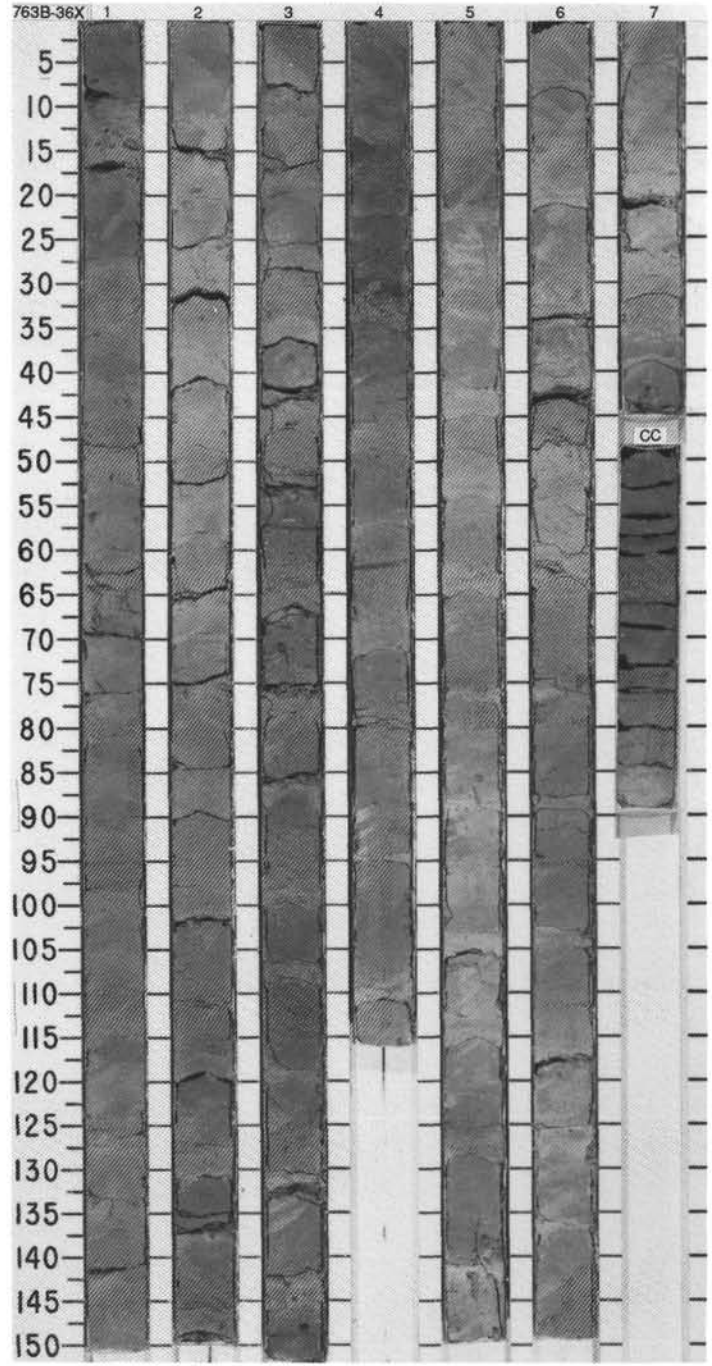


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																	
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALYMONOPHS																																																																							
LOWER and MIDDLE ALBIAN											<p><b>NANNOFOSSIL CLAYSTONE</b></p> <p>Major lithology: NANNOFOSSIL CLAYSTONE, dark to light greenish gray (5GY 5/1 to 5G 6/1). Calcareous components are dominantly nannofossils with few foraminifers. Other components are zeolites, opaques (mostly pyrite), and dolomite. Core disturbance is moderate with biscuiting, but most sections are intact. The core shows no obvious trends except alternating clay-carbonate rich intervals. Some have original laminations present but most are heavily bioturbated.</p> <p>Minor lithology: Clayey chalk, light greenish gray (5GY 7/1), gradational boundaries, in Section 2, 102-127 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>2, 117</td> <td>3, 57</td> <td>5, 44</td> <td>6, 24</td> </tr> <tr> <td>M</td> <td></td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Silt</td> <td>10</td> <td>10</td> <td>10</td> <td>10</td> </tr> <tr> <td>Clay</td> <td>90</td> <td>90</td> <td>90</td> <td>90</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Carbonate grains</td> <td>18</td> <td>4</td> <td>—</td> <td>1</td> </tr> <tr> <td>Clay</td> <td>25</td> <td>45</td> <td>60</td> <td>45</td> </tr> <tr> <td>Foraminifers</td> <td>—</td> <td>3</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Nannofossils</td> <td>55</td> <td>40</td> <td>30</td> <td>35</td> </tr> <tr> <td>Opaques</td> <td>2</td> <td>2</td> <td>2</td> <td>7</td> </tr> <tr> <td>Quartz</td> <td>—</td> <td>1</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Zeolite</td> <td>—</td> <td>5</td> <td>8</td> <td>12</td> </tr> <tr> <td>Dolomite</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> </table>		2, 117	3, 57	5, 44	6, 24	M		D	D	D	Silt	10	10	10	10	Clay	90	90	90	90	Carbonate grains	18	4	—	1	Clay	25	45	60	45	Foraminifers	—	3	Tr	—	Mica	Tr	Tr	Tr	Tr	Nannofossils	55	40	30	35	Opaques	2	2	2	7	Quartz	—	1	Tr	Tr	Zeolite	—	5	8	12	Dolomite	Tr	Tr	Tr	Tr
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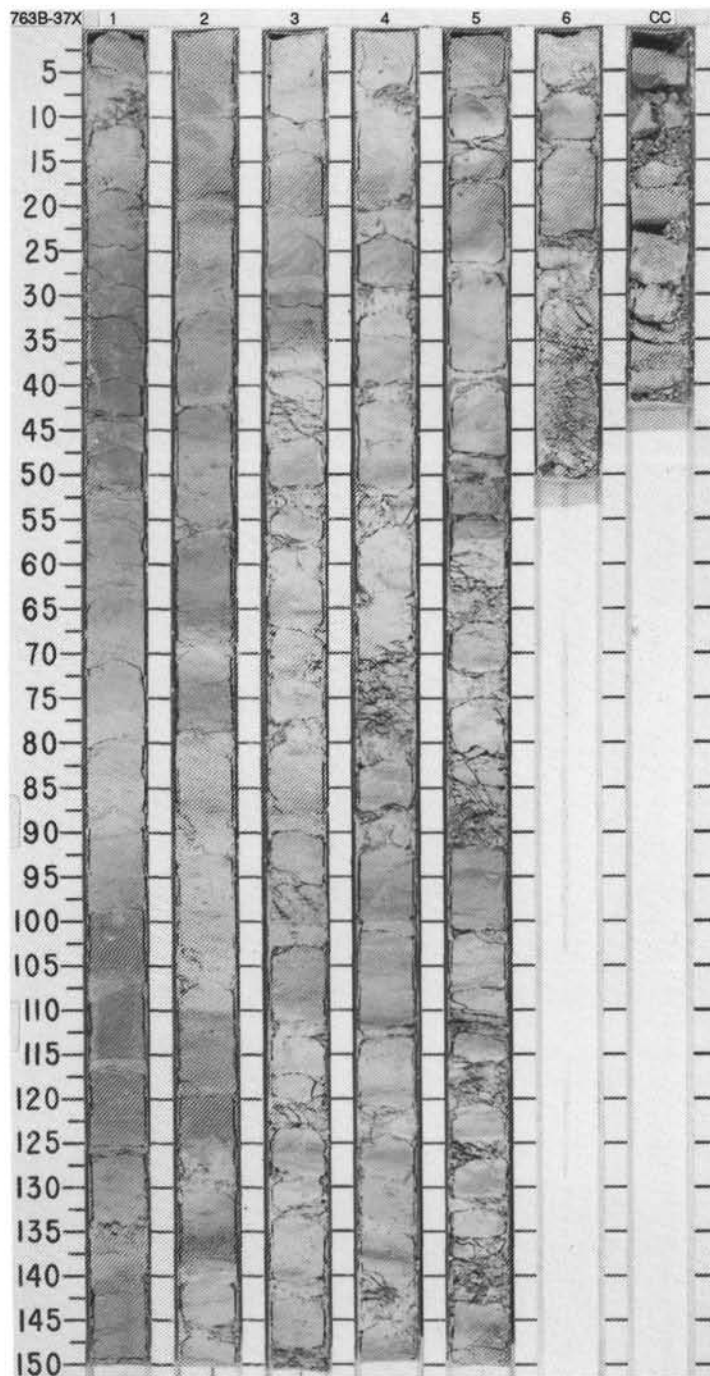


SITE 763 HOLE B CORE 36X CORED INTERVAL 513.0-522.5 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER				SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALYNOFORMS	PALEOMAGNETICS							
LOWER ALBIAN												
ALBIAN undifferentiated												
CC8												
A/G												
A/G												
Barren												
Barren												
						0.5-1.1 P=1.90 C&CO <sub>g</sub> =34.2%	1					
						P=2.10 V=1.71 C&CO <sub>g</sub> =28.9%	2					
						P=4.55 V=1.86 C&CO <sub>g</sub> =45.8% TOC=0.07%	3					
						P=10.4 V=1.43 C&CO <sub>g</sub> =43.4%	4					
							5					
							6					
							7					
							CC					

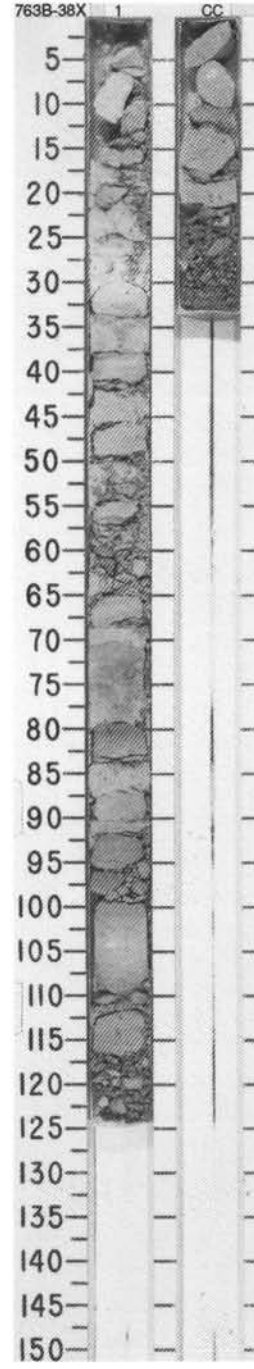


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																										
LOWER ALBIAN	ALBIAN - APTIAN													<p>NANNOFOSSIL CLAYSTONE WITH ZEOLITES AND CLAYEY CHALK WITH ZEOLITES</p> <p>Major lithologies: NANNOFOSSIL CLAYSTONE with ZEOLITES, greenish gray (5G 6/1, 5BG 6/1), and CLAYEY CHALK with ZEOLITES, light greenish gray (5G 7/1). Cyclic sedimentation pattern throughout Section 5 with couplets 15-60 cm thick. Darker shades of greenish gray have more clay content. Moderately to highly bioturbated. Planolites abundant, Zoophycos rare (Section 3, 40 and 124 cm). Teichichnus, Section 4, 41-44 cm, and Chondrites, rare (Section 3, 40 and 124 cm). Vertical branching burrow, Section 4, 34-37 cm. Most burrows oriented parallel to bedding. Belemnite, Section 4, 4 cm. Pyrite grains, Section 3, 144 cm, Section 4, 60 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 83</td> <td>3, 33</td> <td>5, 97</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>—</td> <td>—</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>10</td> <td>10</td> <td>10</td> </tr> <tr> <td>Clay</td> <td>90</td> <td>90</td> <td>85</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>50</td> <td>49</td> <td>50</td> </tr> <tr> <td>Foraminifers</td> <td>2</td> <td>3</td> <td>2</td> </tr> <tr> <td>Glauconite</td> <td>—</td> <td>—</td> <td>3</td> </tr> <tr> <td>Nannofossils</td> <td>36</td> <td>35</td> <td>30</td> </tr> <tr> <td>Opauques</td> <td>—</td> <td>—</td> <td>2</td> </tr> <tr> <td>Quartz</td> <td>2</td> <td>3</td> <td>3</td> </tr> <tr> <td>Zeolite</td> <td>10</td> <td>10</td> <td>10</td> </tr> </table>		1, 83	3, 33	5, 97		D	D	D	Sand	—	—	5	Silt	10	10	10	Clay	90	90	85	Clay	50	49	50	Foraminifers	2	3	2	Glauconite	—	—	3	Nannofossils	36	35	30	Opauques	—	—	2	Quartz	2	3	3	Zeolite	10	10	10
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A/P	CC8																																																													
C/P	A. umbilicata (Albian)																																																													
Barren																																																														
					$\phi = 42.5$ V-1.96 $\phi = 2.03$				1																																																					
					$\phi = 43.8$ V-1.89 $\phi = 2.00$				2																																																					
					$\phi = 38.5$ V-2.00 $\phi = 2.08$				3																																																					
					$\phi = 64.0$ X $\phi = 0.07$				4																																																					
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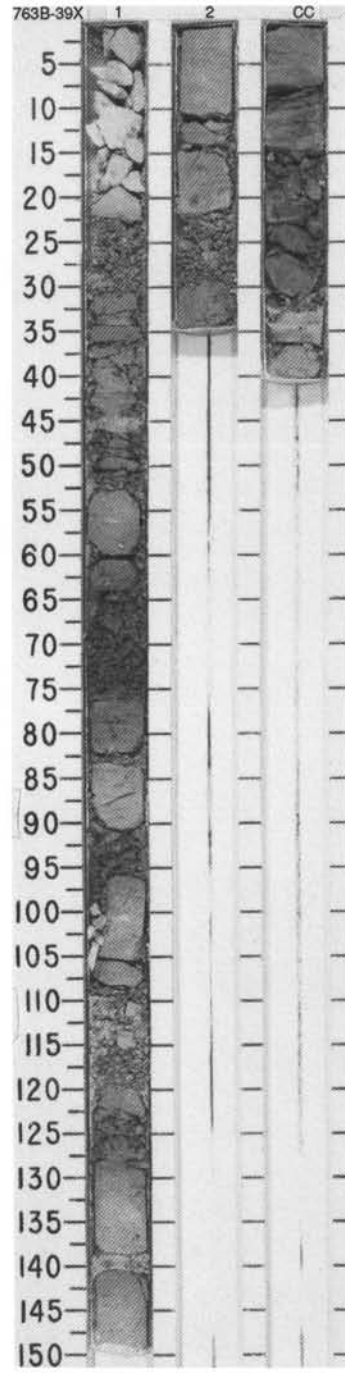


SITE 763 HOLE B CORE 38X CORED INTERVAL 532.0-541.5 mbsf

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																																								
LOWER ALBIAN	F/M	ALBIAN - APTIAN												<p>LIMESTONE WITH GLAUCONITE AND CLAY AND NANNOFOSSIL SILTY CLAYSTONE WITH GLAUCONITE</p> <p>Major lithologies: LIMESTONE WITH GLAUCONITE AND CLAY, greenish gray (5GY 6/1) to light greenish gray (5GY 7/1), nearly structureless. Some chalky, transitional intervals are present. NANNOFOSSIL SILTY CLAYSTONE WITH GLAUCONITE, greenish gray (5GY 6/1), includes a few thin (1 to 2 cm), laminae.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>1, 79</td> <td>1, 103</td> </tr> <tr> <td></td> <td>M</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Carbonate particles</td> <td>—</td> <td>48</td> </tr> <tr> <td>Clay</td> <td>48</td> <td>20</td> </tr> <tr> <td>Foraminifers</td> <td>5</td> <td>2</td> </tr> <tr> <td>Glaucinite</td> <td>12</td> <td>8</td> </tr> <tr> <td>Mica</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>25</td> <td>15</td> </tr> <tr> <td>Opauques</td> <td>5</td> <td>5</td> </tr> <tr> <td>Quartz</td> <td>5</td> <td>2</td> </tr> </table>		1, 79	1, 103		M	D	Carbonate particles	—	48	Clay	48	20	Foraminifers	5	2	Glaucinite	12	8	Mica	Tr	—	Nannofossils	25	15	Opauques	5	5	Quartz	5	2
	1, 79	1, 103																																										
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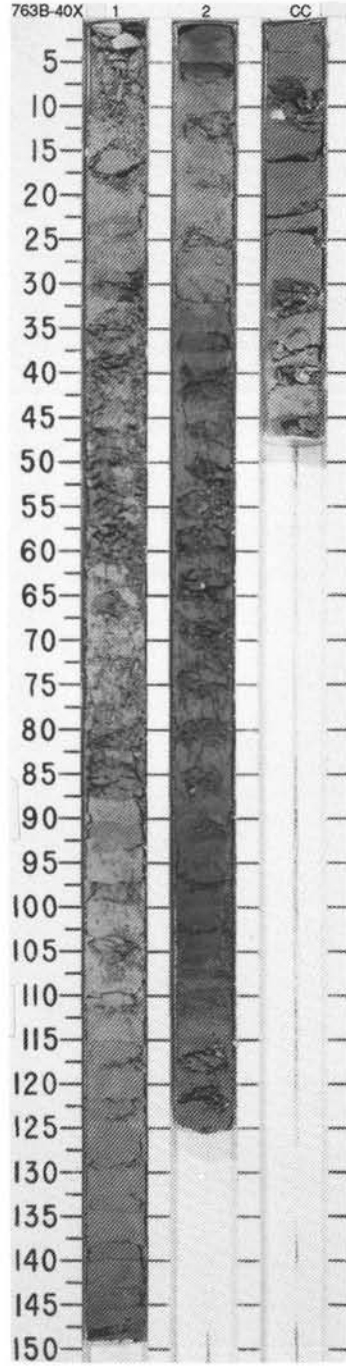
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION							
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONES	PALYMNORPHS																	
MIDDLE APTIAN - LOWER ALBIAN	A/G	ALBIAN - APTIAN				(CaCO <sub>3</sub> =44.0%) (CaCO <sub>3</sub> =56.4%)	V=2.70 V=1.82 V=1.87	CaCO <sub>3</sub> =16.2% TOC=0.06%	1 2 CC	0.5 1.0				CLAYEY CHALK AND NANNOFOSSIL CLAYSTONE Core is highly disturbed and brecciated by drilling. Major lithologies: CLAYEY CHALK and NANNOFOSSIL CLAYSTONE, light gray (5Y 7/1), greenish gray (5GY 6/1) to dark greenish gray (5BG 4/1). Bioturbation moderate in preserved pieces; color change, but there is no cyclic pattern. Minor lithology: Pelagic limestone (recrystallized nannofossil claystone?), gray (N4) to light gray (5Y 7/1), in Section 1 (0-20 cm, 95-105 cm) and Section 2 (0-10 cm). SMEAR SLIDE SUMMARY (%): <table border="1"> <tr> <td></td> <td>1, 56</td> <td>1, 100</td> <td>CC, 11</td> </tr> <tr> <td></td> <td>D</td> <td>M</td> <td>D</td> </tr> </table> TEXTURE: Sand — — 10 Silt 10 10 10 Clay 90 90 80 COMPOSITION: Accessory minerals Tr — — Carbonate, recrystallized — 33 — Clay 73 57 50 Foraminifers 5 — 5 Glauconite 2 — 2 Nannofossils 15 10 39 Opales 2 — 2 Quartz 3 — 2		1, 56	1, 100	CC, 11		D	M	D
	1, 56	1, 100	CC, 11																			
	D	M	D																			



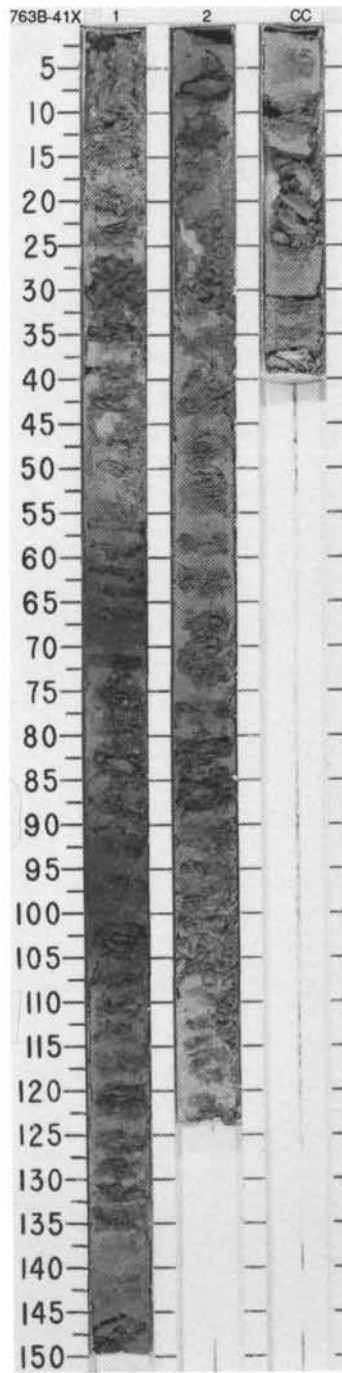


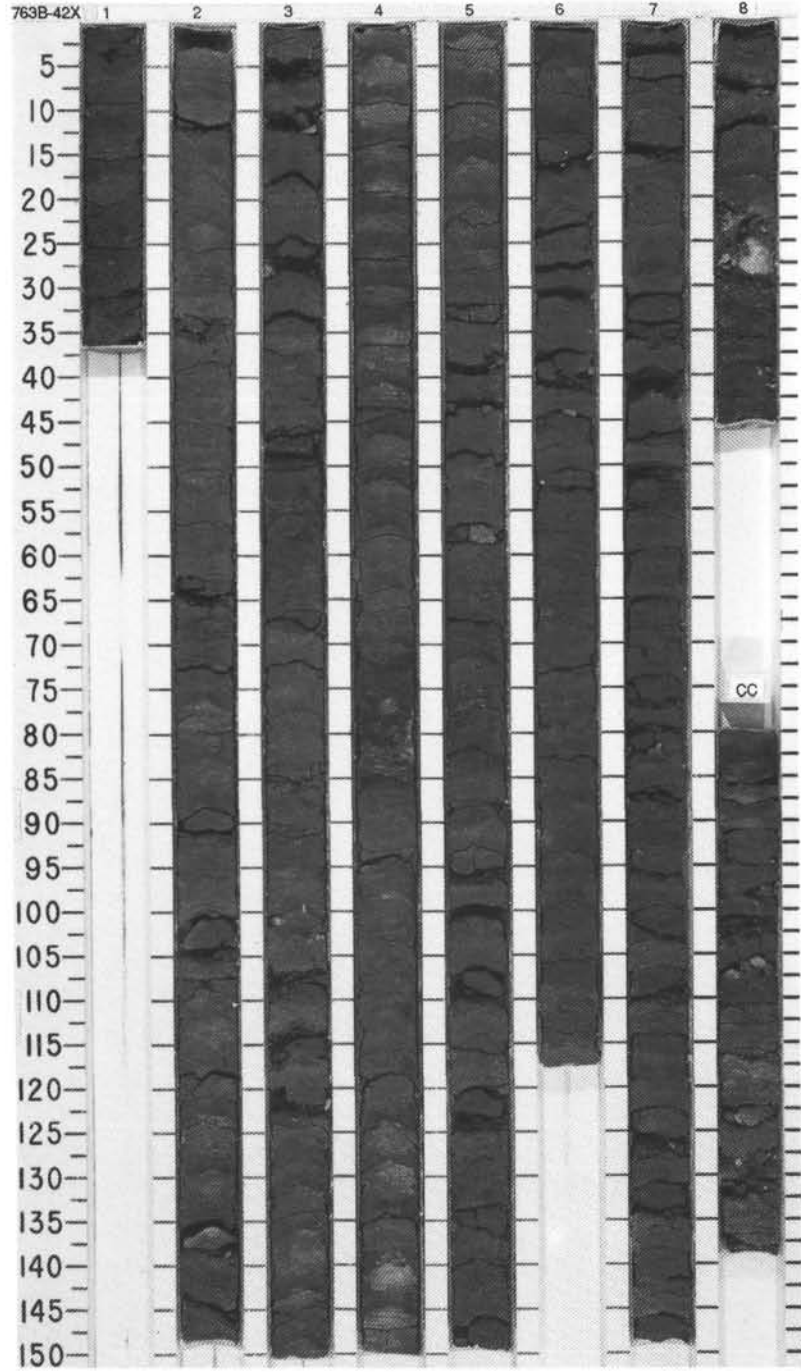
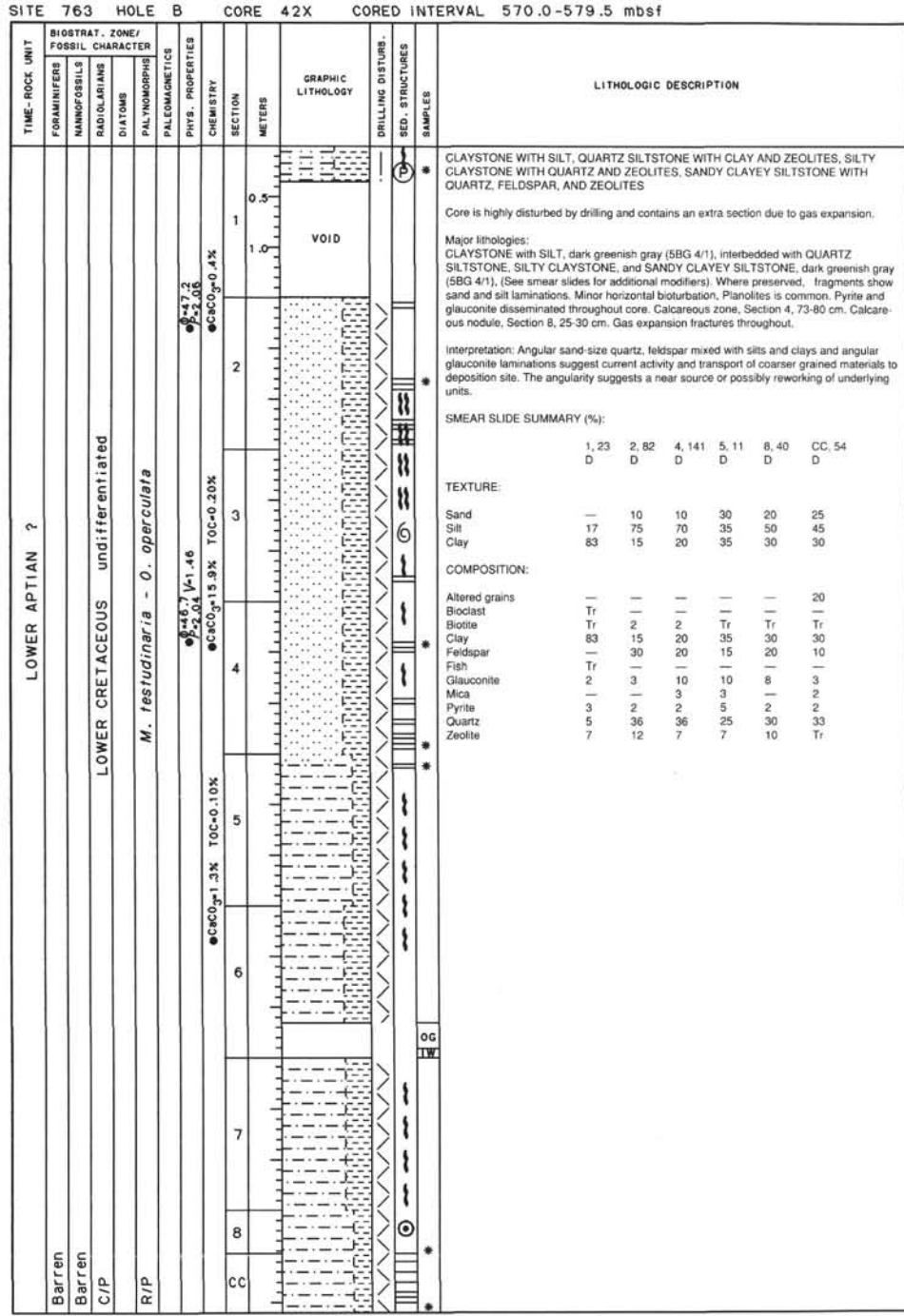
SITE 763 HOLE B CORE 40X CORED INTERVAL 551.0-560.5 mbsf

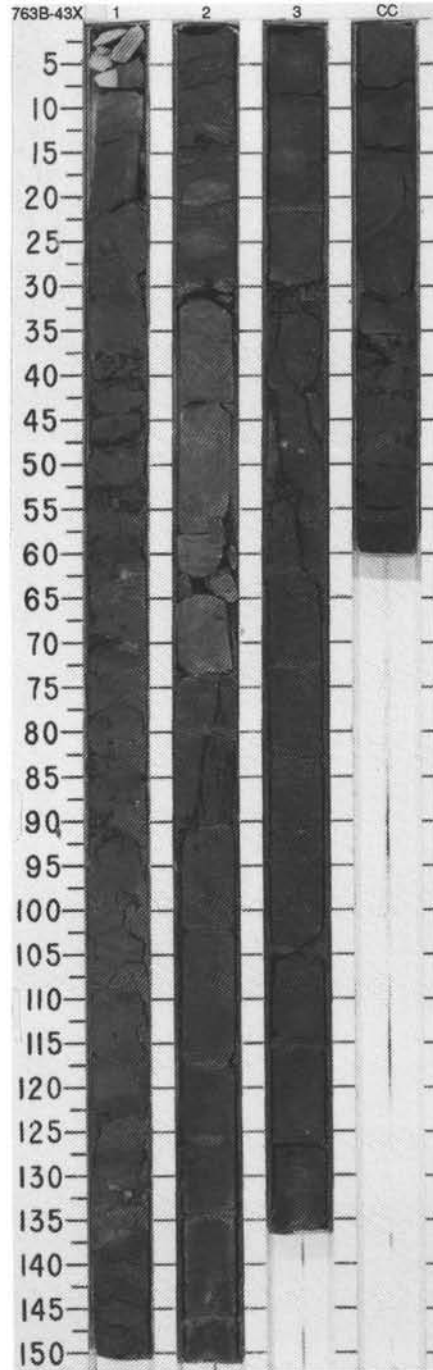
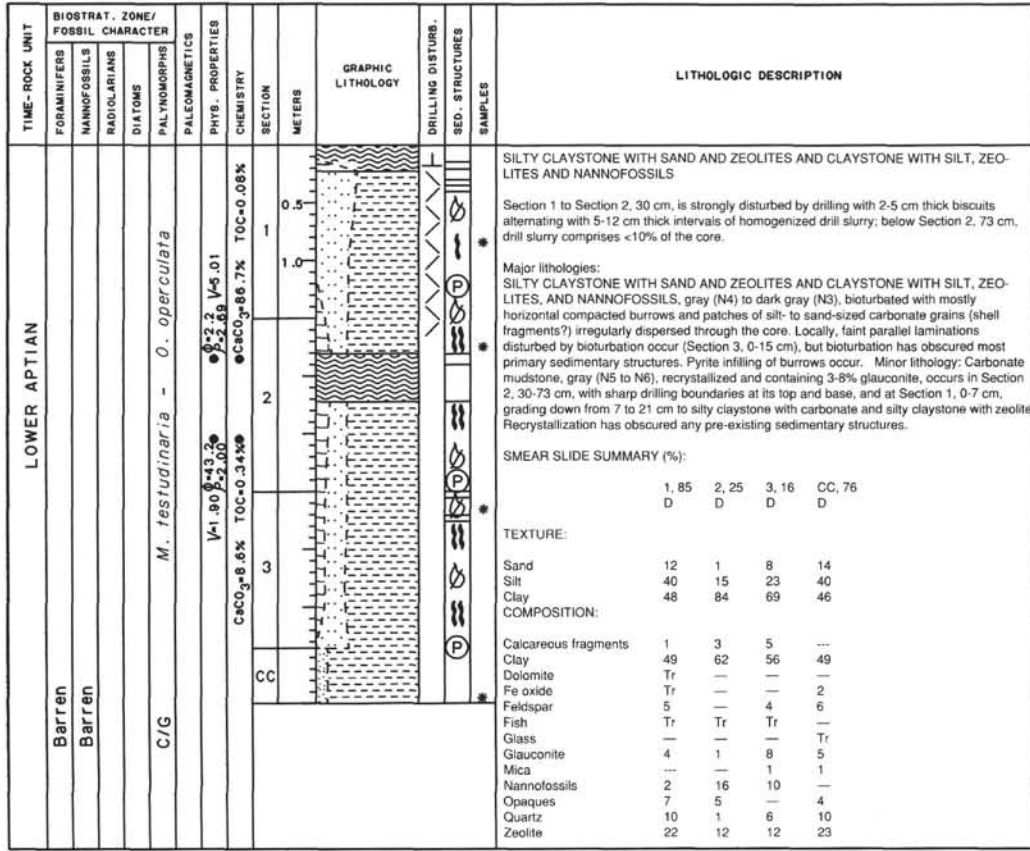
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																								
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MIDDLE APTIAN - LOWER ALBIAN	Barren	A/M	CC7		$\Delta-17.4$ $\Delta-1.95$	$\Delta-2.01$ $\Delta-1.95$	1	0.5 1.0		⊙		<p><b>CALCAREOUS CLAYSTONE</b> Heavily biscuited to heavily fractured.</p> <p>Major lithology: CALCAREOUS CLAYSTONE, light greenish gray (SY 7/1) to greenish gray (SY 6/1, 5GY 5/1) and dark gray (N4). Contains some mica and bioclasts and traces of pyrite, glauconite, biotite, zeolites, and dolomite rhombs.</p> <p>Minor lithology: Recrystallized nannofossil claystone (pelagic limestone), light gray (SY 7/1), Section 1, 1-10 cm, probably from overlying core.</p> <p><b>SMEAR SLIDE SUMMARY (%):</b></p> <table border="1"> <tr> <td></td> <td>1, 92</td> <td>2, 102</td> <td>CC, 36</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p><b>TEXTURE:</b></p> <table border="1"> <tr> <td>Silt</td> <td>5</td> <td>25</td> <td>6</td> </tr> <tr> <td>Clay</td> <td>95</td> <td>75</td> <td>94</td> </tr> </table> <p><b>COMPOSITION:</b></p> <table border="1"> <tr> <td>Bioclasts</td> <td>2</td> <td>4</td> <td>2</td> </tr> <tr> <td>Biotite</td> <td>—</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>46</td> <td>70</td> <td>59</td> </tr> <tr> <td>Dolomite</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Feldspar</td> <td>—</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Fish</td> <td>—</td> <td>1</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>20</td> <td>—</td> <td>10</td> </tr> <tr> <td>Glauconite</td> <td>Tr</td> <td>5</td> <td>Tr</td> </tr> <tr> <td>Mica</td> <td>—</td> <td>1</td> <td>3</td> </tr> <tr> <td>Nannofossils</td> <td>30</td> <td>2</td> <td>25</td> </tr> <tr> <td>Pyrite</td> <td>2</td> <td>2</td> <td>1</td> </tr> <tr> <td>Quartz</td> <td>—</td> <td>15</td> <td>—</td> </tr> <tr> <td>Zeolite</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Dolomite</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> </table>		1, 92	2, 102	CC, 36		D	D	D	Silt	5	25	6	Clay	95	75	94	Bioclasts	2	4	2	Biotite	—	Tr	Tr	Clay	46	70	59	Dolomite	—	—	Tr	Feldspar	—	Tr	—	Fish	—	1	—	Foraminifers	20	—	10	Glauconite	Tr	5	Tr	Mica	—	1	3	Nannofossils	30	2	25	Pyrite	2	2	1	Quartz	—	15	—	Zeolite	Tr	Tr	Tr	Dolomite	—	—	Tr
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	Barren				$\Delta-1.92$ $\Delta-1.80$	$\Delta-1.92$ $\Delta-1.80$	2			*																																																																										
	R/P				$\Delta-26.7\%$	$\Delta-0.31\%$	CC			*																																																																										



TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																				
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS											PALYMORPHS																																			
MIDDLE APTIAN - LOWER ALBIAN				(CaCO <sub>3</sub> )=0.8%	TOC=0.16%		1			X	X	X	CLAYSTONE WITH SILT AND NANNOFOSSILS AND NANNOFOSSIL CLAYSTONE WITH SILT AND SAND Core is almost completely brecciated and all structures are destroyed. Major lithologies: CLAYSTONE with SILT and NANNOFOSSILS, green gray (5G 6/1, 5G 5/1). Section 2 and CC contain NANNOFOSSIL CLAYSTONE with SILT and SAND, greenish gray (5G 5/1) and dark greenish gray (5BG 4/1) pyrite and glauconite are common in smear slides. Shell fragments are dispersed throughout Section 1.																																				
Barren	CC7			V=2.21	W=40.1		1		X	X	X																																						
C/P	LOWER CRETACEOUS			CaCO <sub>3</sub> =17.4%			1.0		X	X	X																																						
A/P							2		X	X	X		SMEAR SLIDE SUMMARY (%): <table style="margin-left: 40px;"> <tr> <td></td> <td>1,66</td> <td>1,83</td> <td>2,87</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table>		1,66	1,83	2,87	D	D	D	D																												
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Barren							2		X	X	X																																						
							CC		X	X	X		TEXTURE: Sand                   5       5       20 Silt                    10     10     10 Clay                   85     85     70																																				
									X	X	X																																						
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									X	X	X		COMPOSITION: <table style="margin-left: 40px;"> <tr> <td>Clay</td> <td>45</td> <td>38</td> <td>34</td> </tr> <tr> <td>Foraminifers</td> <td>3</td> <td>3</td> <td>3</td> </tr> <tr> <td>Glauconite</td> <td>5</td> <td>5</td> <td>8</td> </tr> <tr> <td>Biotite</td> <td>1</td> <td>2</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>28</td> <td>35</td> <td>25</td> </tr> <tr> <td>Opauques</td> <td>10</td> <td>10</td> <td>—</td> </tr> <tr> <td>Pyrite</td> <td>—</td> <td>—</td> <td>10</td> </tr> <tr> <td>Quartz</td> <td>3</td> <td>2</td> <td>15</td> </tr> <tr> <td>Zeolite</td> <td>5</td> <td>5</td> <td>5</td> </tr> </table>	Clay	45	38	34	Foraminifers	3	3	3	Glauconite	5	5	8	Biotite	1	2	—	Nannofossils	28	35	25	Opauques	10	10	—	Pyrite	—	—	10	Quartz	3	2	15	Zeolite	5	5	5
Clay	45	38	34																																														
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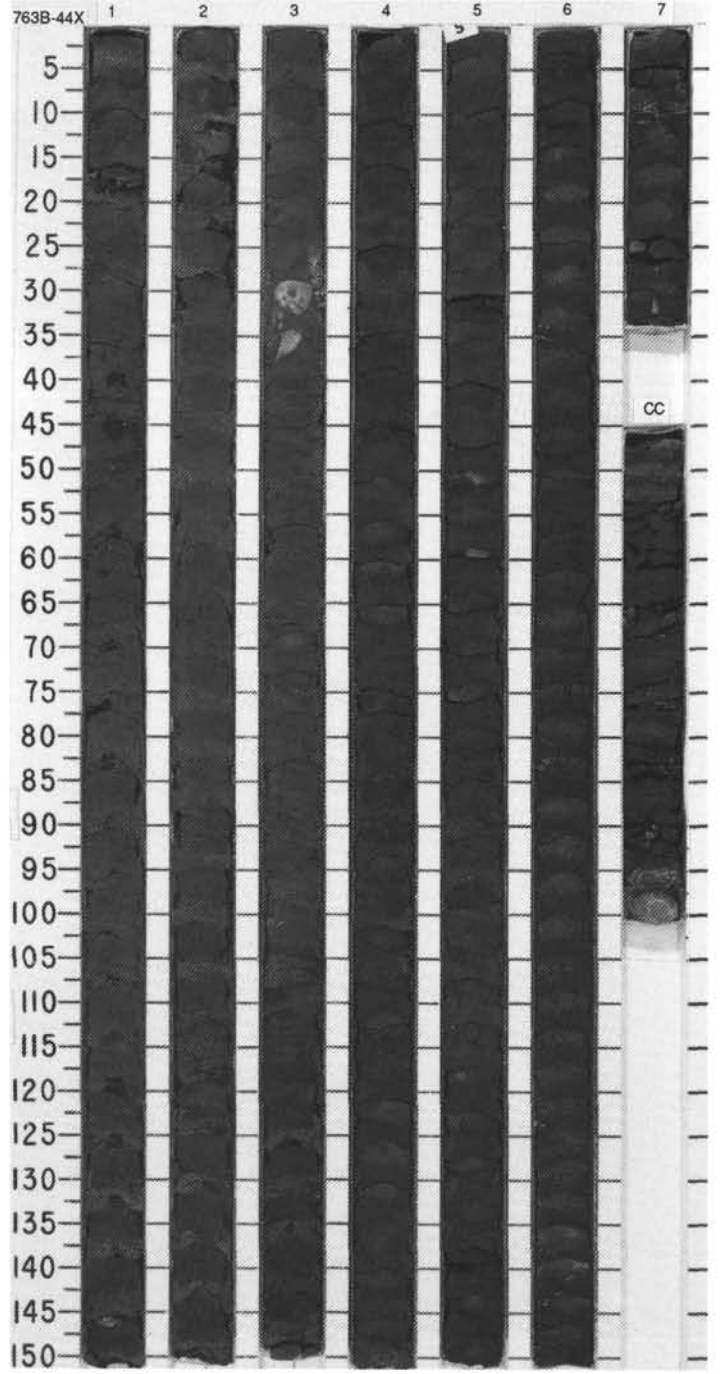






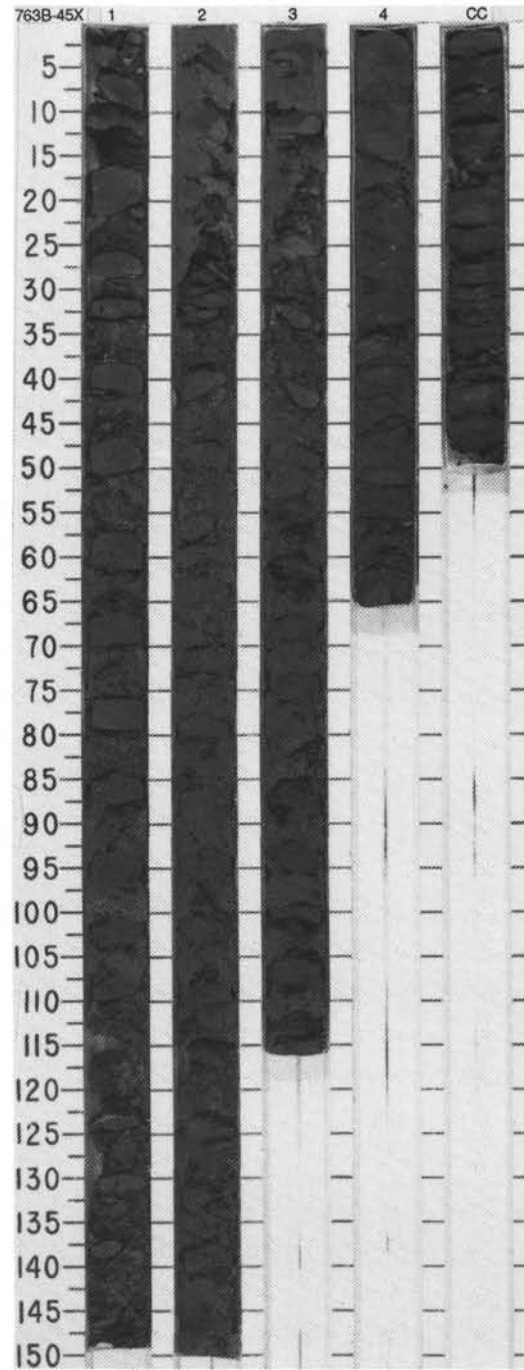
SITE 763 HOLE B CORE 44X CORED INTERVAL 589.0-598.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION												
	FORAMINIFERS	NANNOFOSSELS	RADIOLARIANS	DIATOMS																				
LOWER APTIAN	APTIAN - ALBIAN																							
R/G	CC7																							
C/G	Barren																							
C/G	<i>M. festudinaria</i> - <i>O. operculata</i>																							
					$\phi = 42.9$   $\psi = 1.80$ $\phi = 41.85$   $\psi = 1.85$ @CaCO <sub>3</sub> 4.0% TOC=0.30%	1	0.5 1.0					ZEOLITIC SILTY CLAYSTONE AND CLAYSTONE WITH ZEOLITES AND CALCAREOUS FRAGMENTS  The core is intensely biscuited.  Major lithology: ZEOLITIC SILTY CLAYSTONE, very dark gray (N3) to black (N2), very faintly laminated in parts, partly massive and slightly bioturbated. Ammonite shell debris is present in Section 7, 5-10 cm. Locally, noncarbonate pellets are present in amounts as much as 10-12%. These pellets give a whitish color to the cut surface of the core and, where present, enhance the visibility of laminations. Claystone with zeolites and calcareous fragments, black (N3), contains calcareous pellets, in Sections 6 through CC.												
					$\phi = 46.6$   $\psi = 1.86$ $\phi = 41.85$   $\psi = 1.85$ @CaCO <sub>3</sub> 6.2% TOC=0.54%	2						Minor lithologies: a. Carbonate nodules, gray (5Y 5/1), composed of calcite, dolomite and/or siderite are present in Section 3, 29-36 cm. Another fragment, 2 cm wide, gray (5Y 6/1) at Section 1, 145 cm. In CC, 50-55 cm, a septarian concretion with concentric and radial cemented fractures. Cement in fractures is fibrous. b. Pyrite is present as small (1-2 mm) nodules, or is finely disseminated.  SMEAR SLIDE SUMMARY (%):												
						3						<table border="1"> <tr> <td></td> <td>1, 59</td> <td>2, 67</td> <td>3, 31</td> <td>4, 123</td> <td>CC, 29</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>M</td> <td>D</td> <td>D</td> </tr> </table>		1, 59	2, 67	3, 31	4, 123	CC, 29		D	D	M	D	D
	1, 59	2, 67	3, 31	4, 123	CC, 29																			
	D	D	M	D	D																			
						4						TEXTURE:  Silt                    37    39                    —    44    20 Clay                   63    61                    —    56    80												
						5						COMPOSITION:  Biotite                    Tr    Tr                    —    Tr    Tr Calcareous fragments   3    1                    100   10   12 Clay                       61   58                    —    52   77 Feldspar                   —    —                    —    Tr    Tr Glauconite               Tr    Tr                    —    —    Tr Mica                       2    1                    —    Tr    — Nannofossils            3    5                    —    8    3 Opaques                   1    2                    —    1    1 Plant                       —    1                    —    —    — Pyrite                     2    3                    —    1    2 Quartz                    2    1                    —    Tr    Tr Zeolite                    26   28                    —    28   5												
					$\phi = 43.4$   $\psi = 1.80$ $\phi = 41.88$   $\psi = 1.88$ @CaCO <sub>3</sub> 6.0% TOC=0.58%	6																		
						7																		
						CC																		

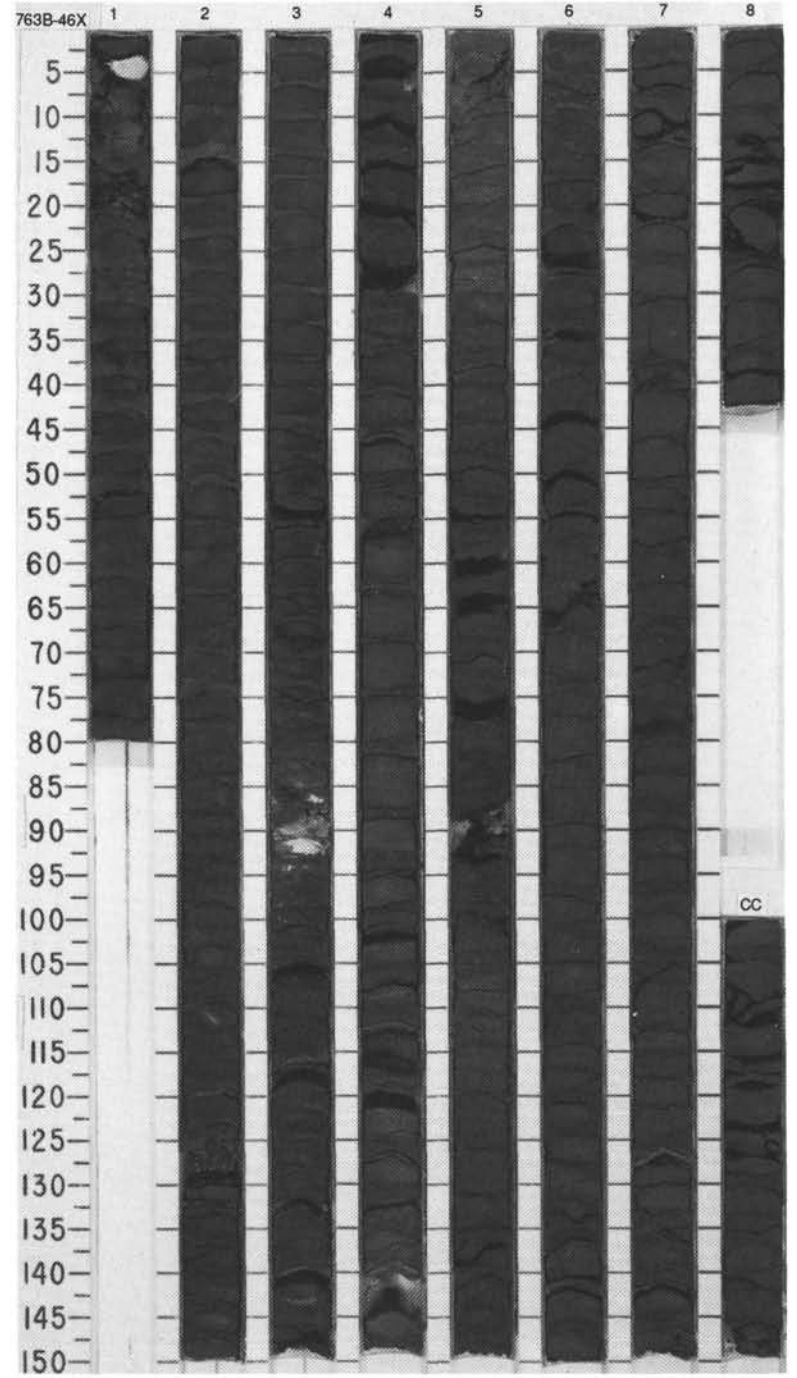
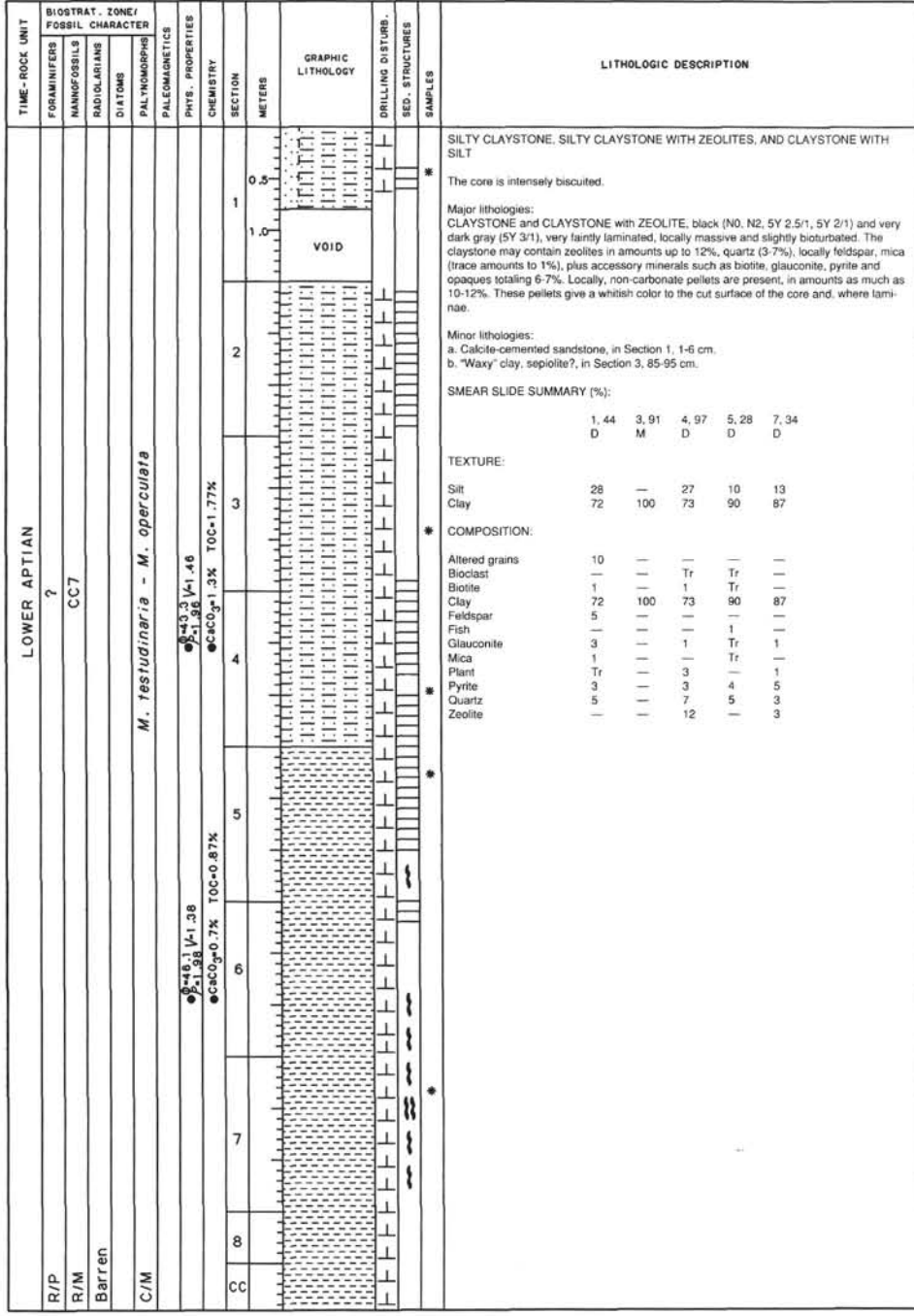




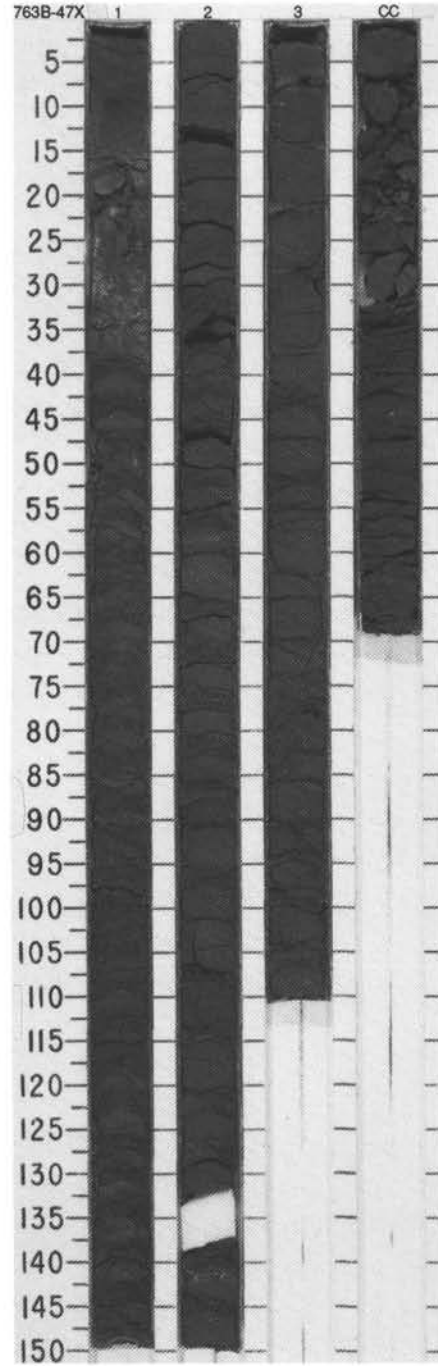
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																	
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																																										
LOWER APTIAN	?												<p>CLAYSTONE WITH SILT</p> <p>Core is completely disrupted by biscuiting with only one-third of recovery being actual rock.</p> <p>Major lithology: CLAYSTONE with SILT, black (N2), contains 5-10% zeolites, some quartz and pyrite, and traces of nannofossils, bioclasts, biotite, glauconite, and muscovite. At some levels, finely disseminated calcareous bioclasts are visible in hand specimen. No bedding is apparent and burrowing is rare consisting of burrows less than 2 mm in diameter on cut surface.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 86</td> <td>2, 86</td> <td>4, 52</td> <td>CC, 41</td> </tr> <tr> <td></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>16</td> <td>12</td> <td>18</td> <td>9</td> </tr> <tr> <td>Clay</td> <td>84</td> <td>88</td> <td>82</td> <td>91</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Bioclasts</td> <td>—</td> <td>Tr</td> <td>1</td> <td>—</td> </tr> <tr> <td>Biotite</td> <td>1</td> <td>Tr</td> <td>2</td> <td>1</td> </tr> <tr> <td>Clay</td> <td>84</td> <td>88</td> <td>83</td> <td>91</td> </tr> <tr> <td>Glauconite</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Mica</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Nannofossils</td> <td>3</td> <td>1</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Pyrite</td> <td>2</td> <td>3</td> <td>3</td> <td>2</td> </tr> <tr> <td>Quartz</td> <td>Tr</td> <td>3</td> <td>2</td> <td>1</td> </tr> <tr> <td>Zeolite</td> <td>10</td> <td>5</td> <td>5</td> <td>5</td> </tr> </table>		1, 86	2, 86	4, 52	CC, 41		D	D	D	D	Silt	16	12	18	9	Clay	84	88	82	91	Bioclasts	—	Tr	1	—	Biotite	1	Tr	2	1	Clay	84	88	83	91	Glauconite	Tr	Tr	Tr	Tr	Mica	—	—	—	Tr	Nannofossils	3	1	1	Tr	Pyrite	2	3	3	2	Quartz	Tr	3	2	1	Zeolite	10	5	5	5
	1, 86	2, 86	4, 52	CC, 41																																																																										
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C/M	<i>M. testudinaria</i> - <i>O. operculata</i>																																																																													



SITE 763 HOLE B CORE 46X CORED INTERVAL 608.0-617.5 mbsf

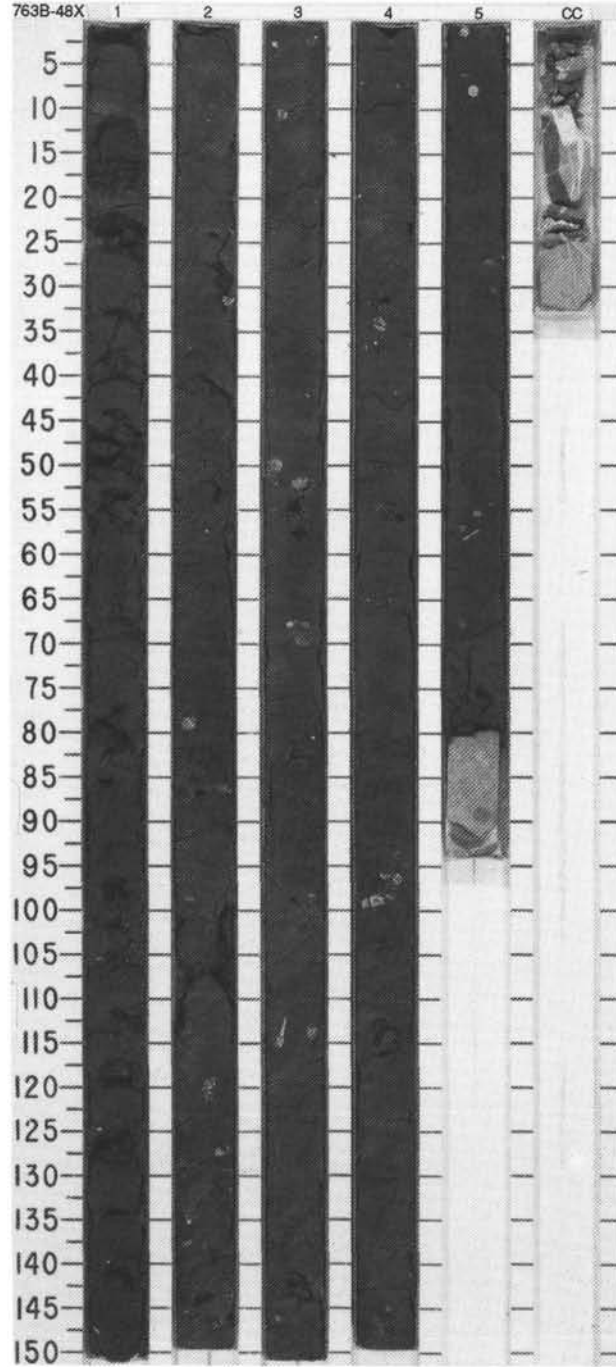


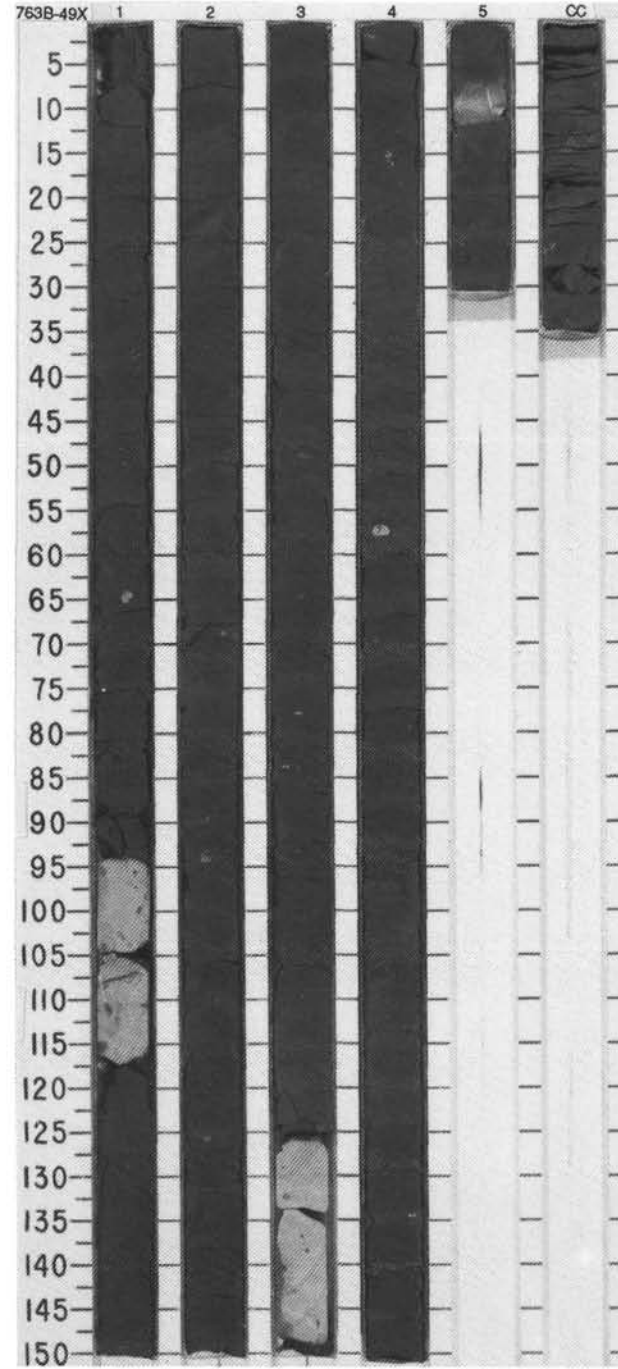
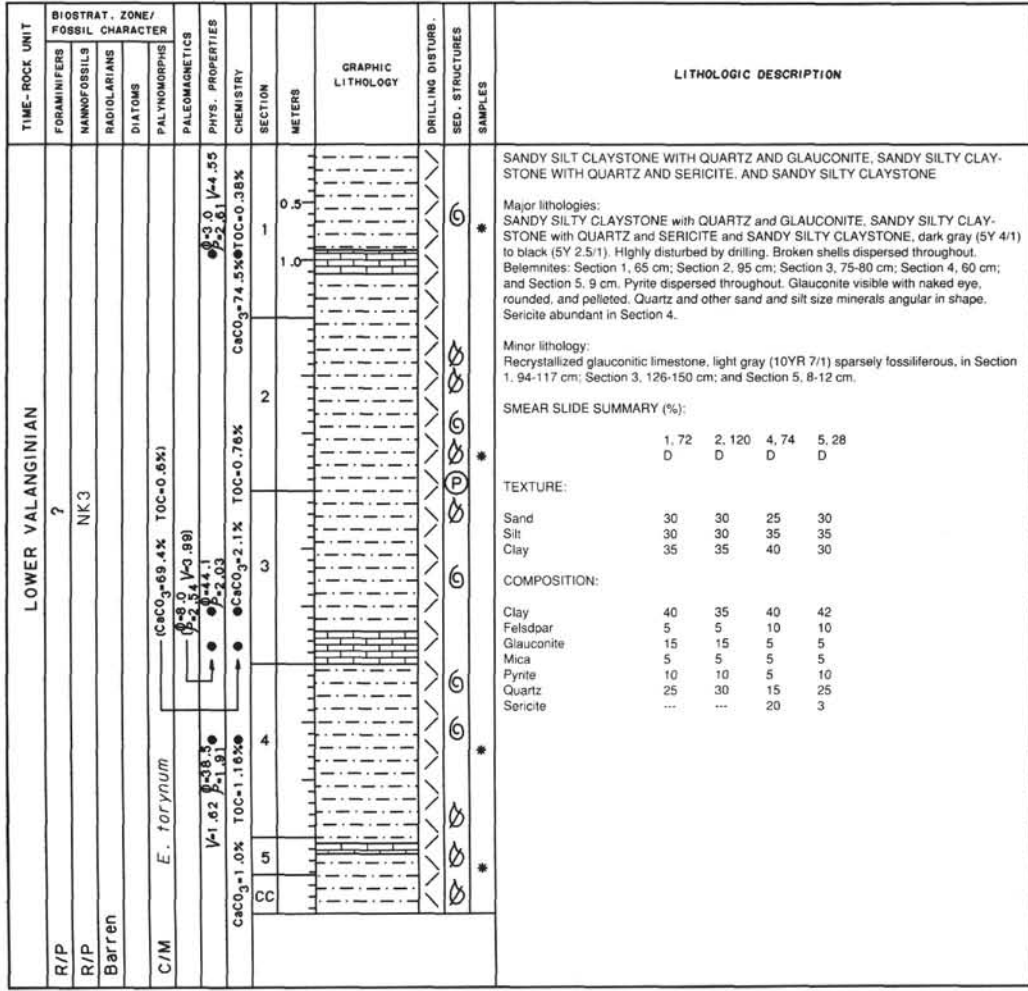
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																				
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									PALYNOFORMS	PALCOGNATHICS																																																																		
LOWER APTIAN	Barren											CLAYSTONE WITH QUARTZ AND PYRITE, SILT, AND SILTY CLAYSTONE  Major lithologies: CLAYSTONE WITH QUARTZ and PYRITE, SILT, and SILTY CLAYSTONE, very dark gray (2.5Y 3/0), with speckled (pyrite) surface. Alternation of bioturbated and laminated intervals occurs throughout. Scattered macro-fossils (ammonites?) and as shell fragments. Several intervals have abundant silt-sized and rare sand-sized quartz. The core becomes slightly darker with depth, but no other trends are observed.  SMEAR SLIDE SUMMARY (%):  <table style="margin-left: 20px;"> <tr> <td></td> <td>1, 83</td> <td>2, 116</td> <td>CC, 47</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> TEXTURE:  <table style="margin-left: 20px;"> <tr> <td>Sand</td> <td>—</td> <td>5</td> <td>—</td> </tr> <tr> <td>Silt</td> <td>10</td> <td>30</td> <td>20</td> </tr> <tr> <td>Clay</td> <td>90</td> <td>65</td> <td>80</td> </tr> </table> COMPOSITION:  <table style="margin-left: 20px;"> <tr> <td>Accessory minerals</td> <td>5</td> <td>—</td> <td>—</td> </tr> <tr> <td>Carbonate grains</td> <td>5</td> <td>5</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>60</td> <td>51</td> <td>70</td> </tr> <tr> <td>Dolomite</td> <td>—</td> <td>Tr</td> <td>5</td> </tr> <tr> <td>Fish</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Glauconite</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>—</td> <td>8</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>5</td> <td>5</td> <td>5</td> </tr> <tr> <td>Pyrite</td> <td>5</td> <td>10</td> <td>10</td> </tr> <tr> <td>Quartz</td> <td>20</td> <td>20</td> <td>8</td> </tr> <tr> <td>Spicules</td> <td>—</td> <td>—</td> <td>2</td> </tr> <tr> <td>Zeolite</td> <td>—</td> <td>1</td> <td>—</td> </tr> </table>		1, 83	2, 116	CC, 47		D	D	D	Sand	—	5	—	Silt	10	30	20	Clay	90	65	80	Accessory minerals	5	—	—	Carbonate grains	5	5	—	Clay	60	51	70	Dolomite	—	Tr	5	Fish	—	—	Tr	Glauconite	—	—	—	Mica	—	8	—	Nannofossils	5	5	5	Pyrite	5	10	10	Quartz	20	20	8	Spicules	—	—	2	Zeolite	—	1	—
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Zeolite	—	1	—																																																																													
	C/M	CC7					1																																																																									
	C/M	UPPER VALANGINIAN - APTIAN						2																																																																								
	C/M	<i>M. testudinaria</i> - <i>O. operculata</i>						3																																																																								
						CaCO <sub>3</sub> = 3.3% TOC = 0.82%	CC																																																																									



SITE 763 HOLE B CORE 48X CORED INTERVAL 622.5-627.5 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																																																																														
LOWER VALANGINIAN	UPPER VALANGINIAN - APTIAN							0.5 1.0				<p>SILTY CLAYSTONE WITH QUARTZ, GLAUCONITE, AND PYRITE AND CLAYEY SILTSTONE WITH SAND, PYRITE AND GLAUCONITE</p> <p>The core is badly disturbed by drilling.</p> <p>Major lithologies: SILTY CLAYSTONE with QUARTZ, GLAUCONITE, and PYRITE, and CLAYEY SILTSTONE with SAND, PYRITE, and GLAUCONITE, dark gray, with glauconite grains and local concentrations of pyrite. Sections 2-CC are belemnite-rich. Belemnites are preserved whole and as fragments. There may be extensive original lamination, even some cross-lamination, but the majority is structureless. The core is coarser grained than those above.</p> <p>Minor lithology: Limestone, gray (SY 6/1), with calcite veins, has undergone complete recrystallization, includes about 10-15% glauconite as sand-sized (?) pellets.</p> <p>* SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>2.5</td> <td>2.82</td> <td>4.56</td> <td>5.18</td> </tr> <tr> <td>M</td> <td></td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>1</td> <td>10</td> <td>3</td> <td>3</td> </tr> <tr> <td>Silt</td> <td>40</td> <td>60</td> <td>25</td> <td>40</td> </tr> <tr> <td>Clay</td> <td>50</td> <td>30</td> <td>72</td> <td>57</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>---</td> <td>---</td> <td>5</td> <td>---</td> </tr> <tr> <td>Clay</td> <td>57</td> <td>40</td> <td>59</td> <td>52</td> </tr> <tr> <td>Fish</td> <td>Tr</td> <td>---</td> <td>---</td> <td>---</td> </tr> <tr> <td>Glauconite</td> <td>Tr</td> <td>---</td> <td>---</td> <td>---</td> </tr> <tr> <td>Mica</td> <td>3</td> <td>3</td> <td>10</td> <td>5</td> </tr> <tr> <td>Nannofossils</td> <td>Tr</td> <td>Tr</td> <td>2</td> <td>2</td> </tr> <tr> <td>Pyrite</td> <td>10</td> <td>12</td> <td>12</td> <td>10</td> </tr> <tr> <td>Quartz</td> <td>10</td> <td>25</td> <td>12</td> <td>14</td> </tr> <tr> <td>Zeolite</td> <td>10</td> <td>8</td> <td>---</td> <td>5</td> </tr> </table>		2.5	2.82	4.56	5.18	M		D	D	D	Sand	1	10	3	3	Silt	40	60	25	40	Clay	50	30	72	57	Accessory minerals	---	---	5	---	Clay	57	40	59	52	Fish	Tr	---	---	---	Glauconite	Tr	---	---	---	Mica	3	3	10	5	Nannofossils	Tr	Tr	2	2	Pyrite	10	12	12	10	Quartz	10	25	12	14	Zeolite	10	8	---	5
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Barren	VALANGINIAN							2																																																																										
R/P	NK3																																																																																	
C/M	LOWER VALANGINIAN (E. forynum)																																																																																	
	1/4 .86 2.7 45.3 2.2 2.05																																																																																	
	CaCO <sub>3</sub> 69.6% TOC=0.5% ● CaCO <sub>3</sub> 0.8% TOC=1.23%																																																																																	
	CC																																																																																	





SANDY SILT CLAYSTONE WITH QUARTZ AND GLAUCONITE, SANDY SILTY CLAYSTONE WITH QUARTZ AND SERICITE, AND SANDY SILTY CLAYSTONE

Major lithologies:  
 SANDY SILTY CLAYSTONE with QUARTZ and GLAUCONITE, SANDY SILTY CLAYSTONE with QUARTZ and SERICITE and SANDY SILTY CLAYSTONE, dark gray (5Y 4/1) to black (5Y 2.5/1). Highly disturbed by drilling. Broken shells dispersed throughout.  
 Belemnites: Section 1, 65 cm; Section 2, 95 cm; Section 3, 75-80 cm; Section 4, 60 cm; and Section 5, 9 cm. Pyrite dispersed throughout. Glauconite visible with naked eye, rounded, and pelleted. Quartz and other sand and silt size minerals angular in shape. Sericite abundant in Section 4.

Minor lithology:  
 Recrystallized glauconitic limestone, light gray (10YR 7/1) sparsely fossiliferous, in Section 1, 94-117 cm; Section 3, 126-150 cm; and Section 5, 8-12 cm.

SMEAR SLIDE SUMMARY (%):

	1, 72	2, 120	4, 74	5, 28
D	D	D	D	D

TEXTURE:

Sand	30	30	25	30
Silt	30	30	35	35
Clay	35	35	40	30

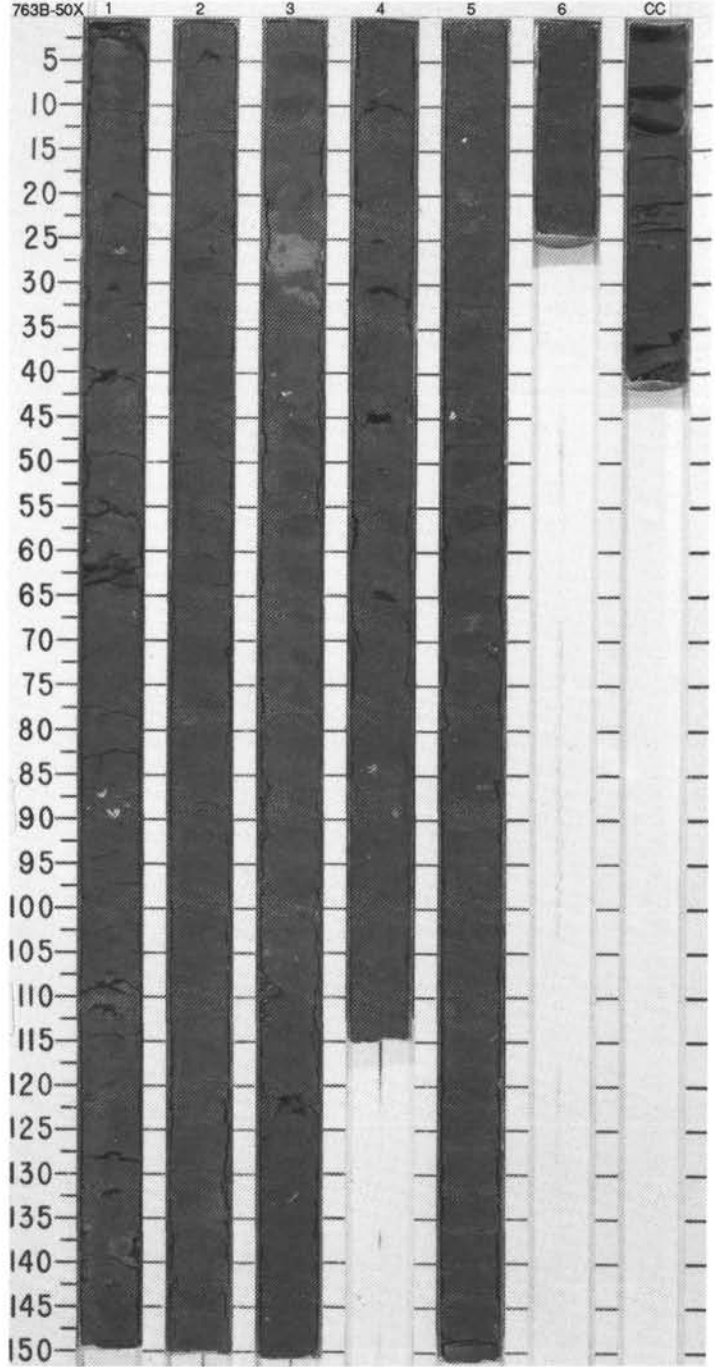
COMPOSITION:

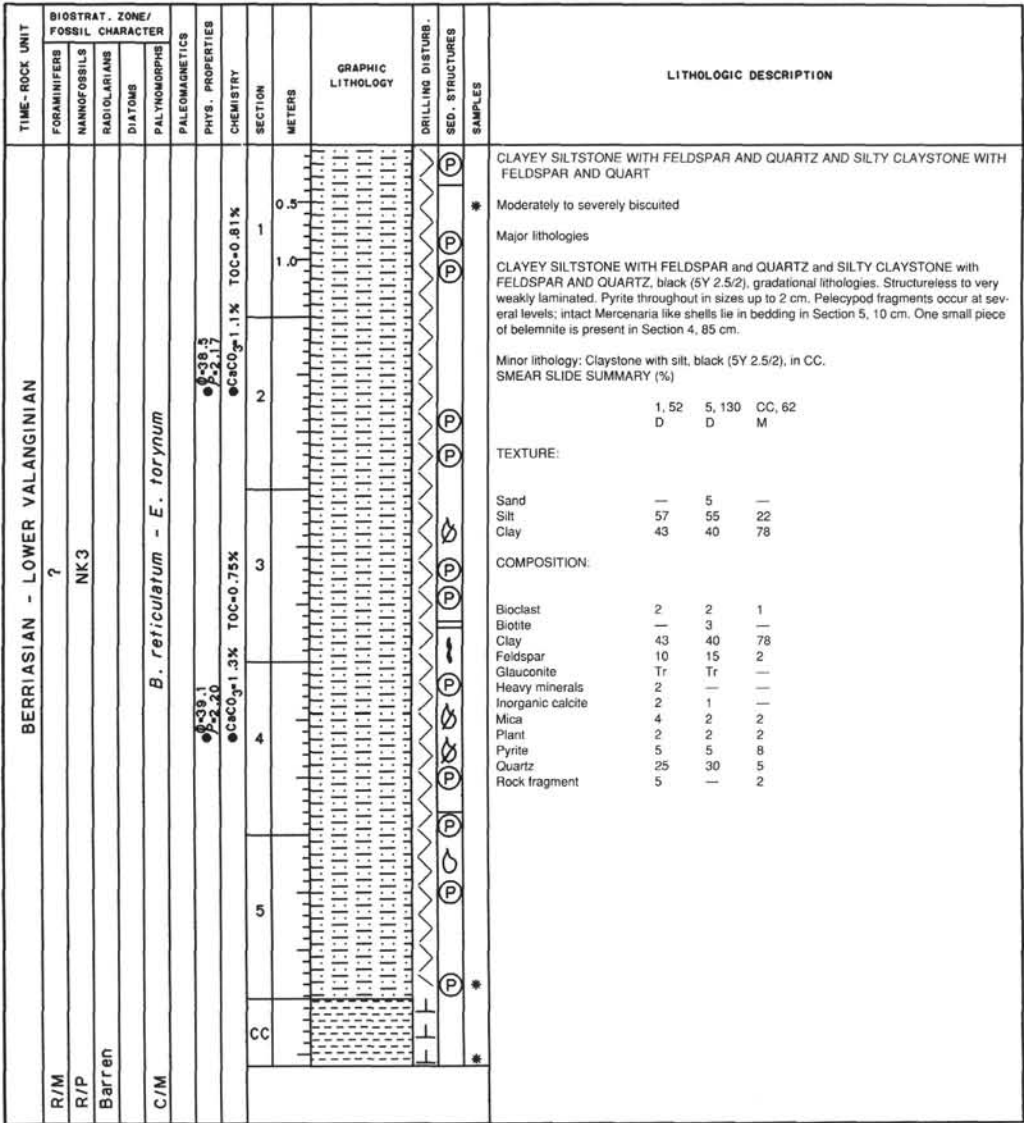
Clay	40	35	40	42
Feldspar	5	5	10	10
Glauconite	15	15	5	5
Mica	5	5	5	5
Pyrite	10	10	5	10
Quartz	25	30	15	25
Sericite	--	--	20	3



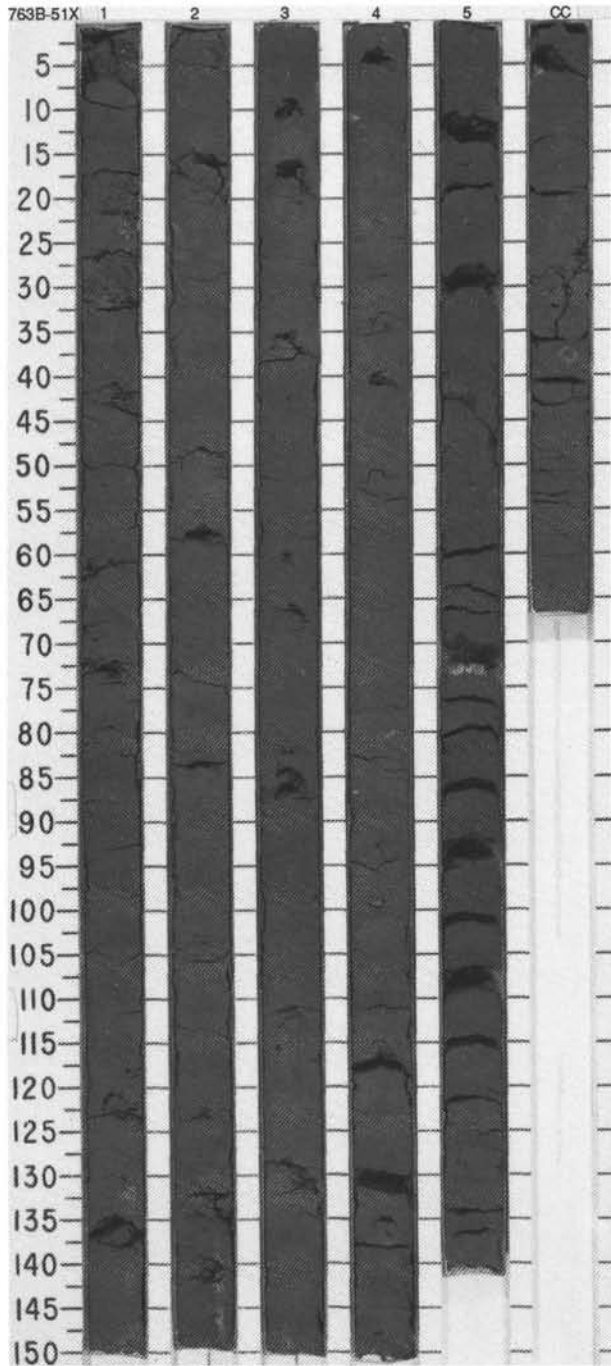
SITE 763 HOLE B CORE 50X CORED INTERVAL 632.5-637.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NAUPOLEIDIDS	RADIOLARIANS	DIATOMS	PALYNOMORPHS							
BERRIASIAN - LOWER VALANGINIAN												
R/M	?											
Barren												
Barren												
C/P	<i>B. reticulatum - E. forynum</i>											
	CaCO <sub>3</sub> =1.7% TOC=1.01% 0.23 1.0 0.28 1 0.2 2.25 CaCO <sub>3</sub> =2.0% TOC=1.02%											
						0.5						
						1.0						
						2						
						3						
						4						
						5						
						6						
						CC						



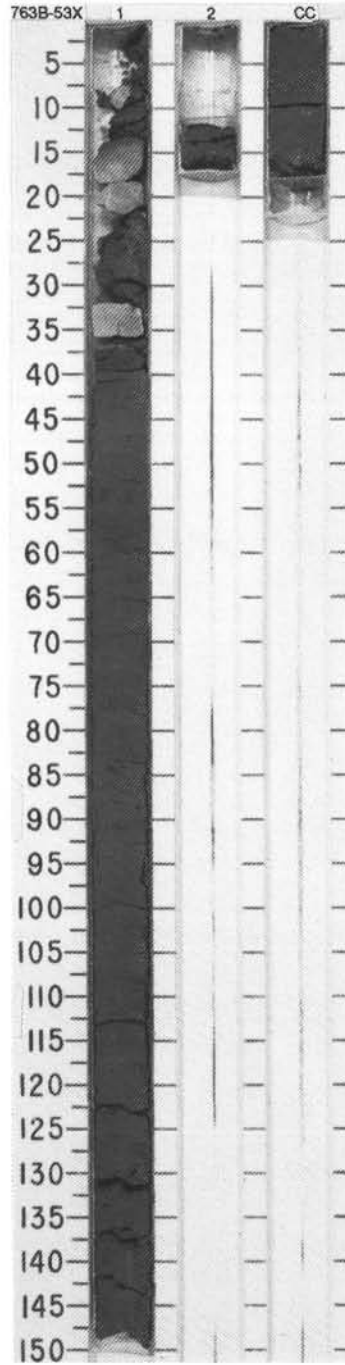


CORE 763B-52X NO RECOVERY

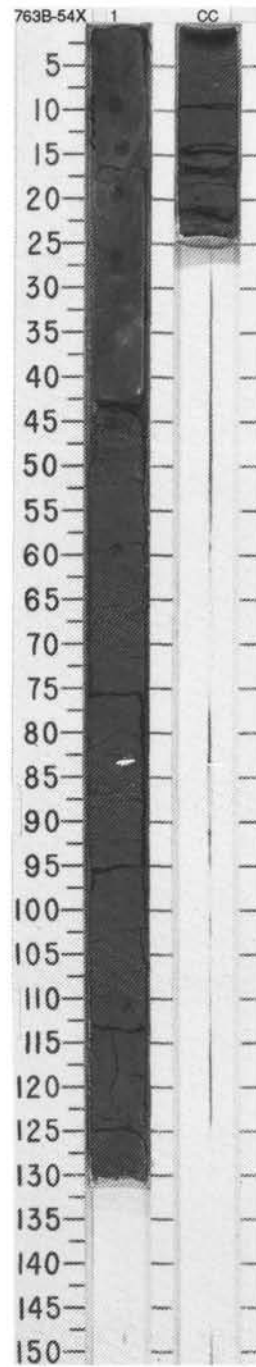


SITE 763 HOLE B CORE 53X CORED INTERVAL 647.5 -648.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																						
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONS									CHEMISTRY																																																					
BERRIASIAN - LOWER VALANGINIAN					V-3.86 P-0.3 S-2.57	1						<p>SILTY CLAYSTONE WITH SAND AND SILTY/SANDY CARBONATE MUDSTONE</p> <p>Drilling disturbance appears to have mixed components and to have destroyed sedimentary structures.</p> <p>Major lithologies: SILTY CLAYSTONE with SAND, dark gray (5Y 4/1 to N4) to very dark gray (5Y 3/1 to N3), with abundant quartz grains and common disseminated pyrite (silt to fine sand-sized) and pyrite framboids (clots of pyrite grains generally less than 5 mm diameter). Section 1, 36-117 cm, contains a much lower proportion of sand grains than Section 1, 117-150 cm, and Sections 2 and CC, but these intervals all appear to be disturbed by drilling. SILTY/SANDY CARBONATE MUDSTONE, light brownish gray (2.5Y 6/2), occurs in four pieces in Section 1, 0-36 cm. One piece, at 11-16 cm, shows a gradation from calcareous silty sandstone or sandy siltstone to silty/sandy carbonate mudstone. This lithology is massive and structureless with abundant angular to sub-angular quartz grains and some sand-sized glauconite grains.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 77</td> <td>1, 143</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>10</td> <td>17</td> </tr> <tr> <td>Silt</td> <td>25</td> <td>35</td> </tr> <tr> <td>Clay</td> <td>65</td> <td>48</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Calcite/Dolomite</td> <td>2</td> <td>2</td> </tr> <tr> <td>Carbonate grains</td> <td>25</td> <td>35</td> </tr> <tr> <td>Clay</td> <td>55</td> <td>39</td> </tr> <tr> <td>Epidote</td> <td>Tr</td> <td>---</td> </tr> <tr> <td>Feldspar</td> <td>5</td> <td>7</td> </tr> <tr> <td>Glauconite</td> <td>4</td> <td>1</td> </tr> <tr> <td>Mica</td> <td>1</td> <td>5</td> </tr> <tr> <td>Nannofossils</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Opacues</td> <td>3</td> <td>---</td> </tr> <tr> <td>Plant</td> <td>2</td> <td>1</td> </tr> <tr> <td>Pyrite</td> <td>5</td> <td>10</td> </tr> <tr> <td>Quartz</td> <td>10</td> <td>15</td> </tr> <tr> <td>Zeolite</td> <td>2</td> <td>---</td> </tr> </table>		1, 77	1, 143		D	D	Sand	10	17	Silt	25	35	Clay	65	48	Calcite/Dolomite	2	2	Carbonate grains	25	35	Clay	55	39	Epidote	Tr	---	Feldspar	5	7	Glauconite	4	1	Mica	1	5	Nannofossils	Tr	Tr	Opacues	3	---	Plant	2	1	Pyrite	5	10	Quartz	10	15	Zeolite	2	---
	1, 77	1, 143																																																																
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TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZOME									
BERRIASIAN - LOWER VALANGINIAN	R/M	R/P	Barren	C/M									
?		NK3		<i>B. reticulatum</i> - <i>E. forynum</i>									
						$V=4.16 \frac{0-8.2}{-2.87}$							
						$CeCO_3=85.7\%$ TOC=0.32%							



SILTY CLAYSTONE WITH QUARTZ, CLAYEY SILTSTONE WITH QUARTZ, AND LIMESTONE

Little drilling disturbance apart from minor biscuiting and some pseudo-laminations caused by core rotation.

Major lithologies:  
 SILTY CLAYSTONE with QUARTZ and CLAYEY SILTSTONE with QUARTZ, very dark gray (5Y 3/1). Disseminated pyrite, with grains up to 3 mm in diameter, is common. Bedding is massive, no distinct burrow types. LIMESTONE, dark olive gray (5Y 3/2), finely recrystallized and probably pelagic with calcite veins, vein diameters from 0 to 2 cm. Moderately bioturbated with burrows 0.5-1 cm across.

Minor lithology:  
 Sandy clayey siltstone with quartz and feldspar, very dark gray (5Y 3/1), Section 1, 104-125 cm. No bedding or bioturbation is visible.

SMEAR SLIDE SUMMARY (%):

	1, 72	1, 123	CC, 20
	D	M	D

TEXTURE:

Sand	---	25	---
Silt	47	45	64
Clay	53	30	36

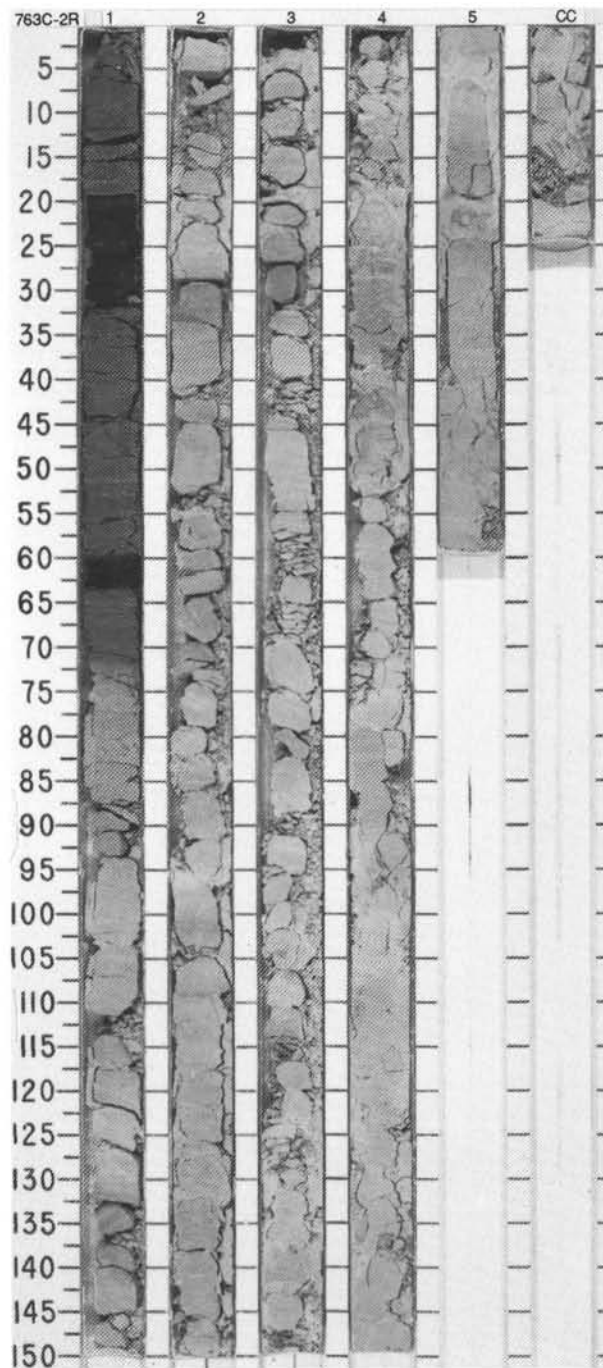
COMPOSITION:

Bioclasts	Tr	Tr	2
Carbonate	1	---	3
Clay	1	---	3
Feldspar	10	24	36
Foraminifers	Tr	Tr	---
Glauconite	---	1	---
Heavy minerals	Tr	1	3
Nannofossils	Tr	---	---
Plant	Tr	1	1
Pyrite	5	7	8
Quartz	20	35	25
Rock fragment	5	---	---
Sericite	Tr	---	---
Zoelite	Tr	---	---

CORE 763C-1C NO RECOVERY

SITE 763 HOLE C CORE 2R CORED INTERVAL 385.0-394.5 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																						
UPPER CENOMANIAN - LOWER TURONIAN	CENOMANIAN							1	0.5					* NANNOFOSSIL CLAYSTONE WITH ZEOLITES AND SILT AND NANNOFOSSIL CLAYSTONE WITH SILT * Major lithologies: NANNOFOSSIL CLAYSTONE with ZEOLITES and SILT and NANNOFOSSIL CLAYSTONE WITH SILT, greenish gray (5G 6/1 and 5G 7/1). Section 1, 72 cm, through core catcher. Minor bioturbation throughout. Minor pyrite stains. * Minor lithologies: a. Claystone with zeolites, black (2.5Y 2/0). Section 1, 18-31 cm and 58-63 cm. Interlayered with silty zeolitic claystone. b. Silty zeolitic claystone, ark greenish gray (5G 4/1). Section 1, 0-18 cm, 31-58 cm, and 62-72 cm. SMEAR SLIDE SUMMARY (%): <table border="1"> <tr> <td></td> <td>1, 8</td> <td>1, 27</td> <td>1, 102</td> <td>3, 48</td> <td>5, 26</td> </tr> <tr> <td></td> <td>M</td> <td>M</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> TEXTURE: Silt 25 20 20 — 20 Clay 75 80 80 — 80 COMPOSITION: Accessory minerals Clay 61 73 42 35 45 Feldspar — 2 — — 2 Foraminifers — — — 4 3 Glauconite — — — — 1 Hornblende 3 — — — — Mica 2 5 1 — — Nannofossils — — 42 50 27 Opaques 7 5 3 5 — Plant — Tr — — Tr Quartz 2 5 2 1 2 Zeolite 25 10 3 5 20		1, 8	1, 27	1, 102	3, 48	5, 26		M	M	D	D	D
	1, 8	1, 27	1, 102	3, 48	5, 26																					
	M	M	D	D	D																					
UPPER CENOMANIAN	CENOMANIAN							2	1.0																	
A/M	CC9-CC10							3																		
A/M	A/P							4																		
Barren	Barren							5																		
Barren	Barren							CC																		

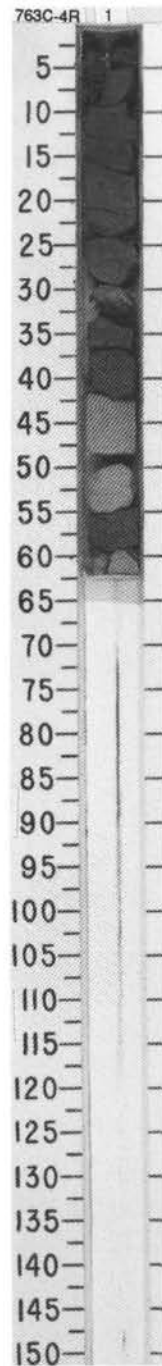




CORE 763C-3C NO RECOVERY

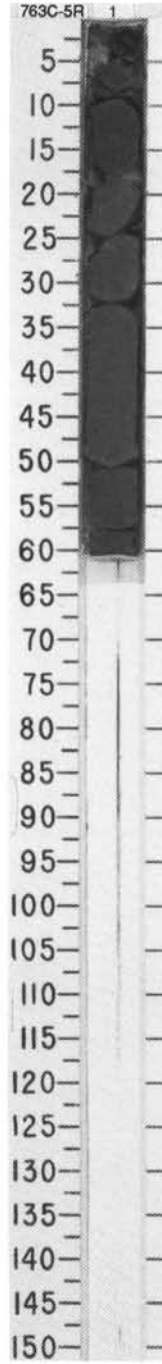
SITE 763 HOLE C CORE 4R CORED INTERVAL 645.1 - 654.6 mbsf

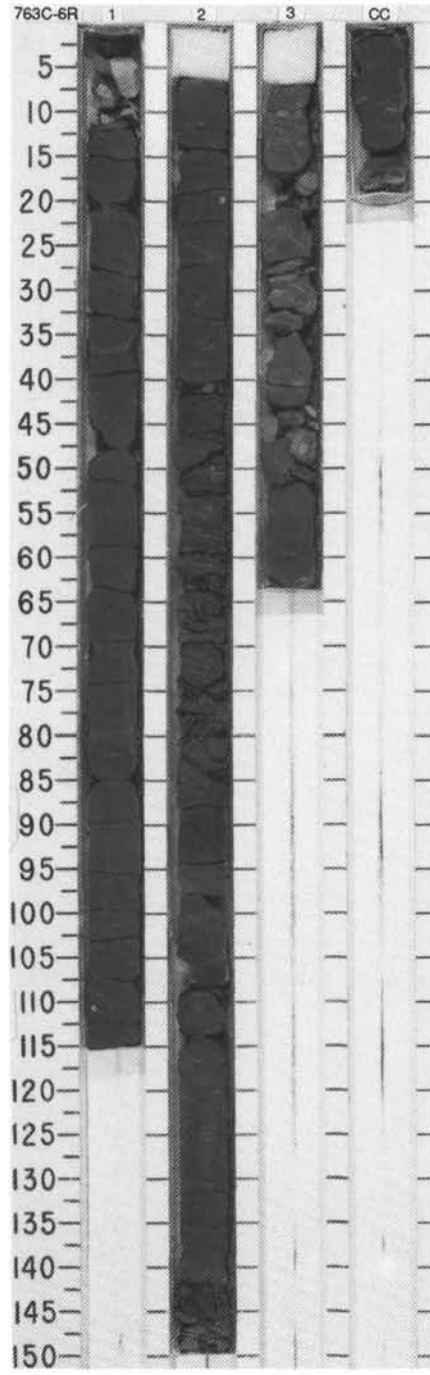
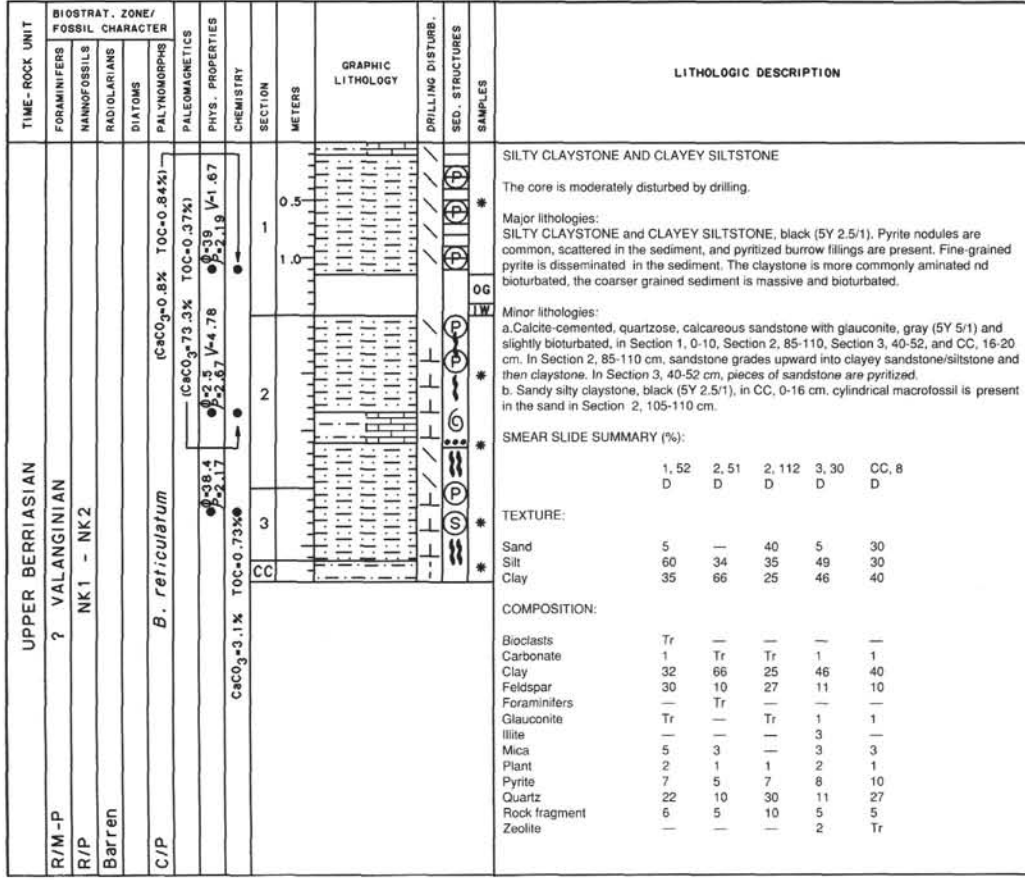
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																												
	FORAMINIFERS	NAUFOSSILS	RADIOLARIANS	DIATOMS									CHEMISTRY																																																											
UPPER BERRIASIAN												SILTY CLAYSTONE WITH SAND AND RECRYSTALLIZED PELAGIC LIMESTONE  Major lithologies: SILTY CLAYSTONE with SAND, very dark gray (5Y 3/1), alternating with RECRYSTALLIZED PELAGIC LIMESTONE, light gray (5Y 7/1), 40-52 cm and 59-62 cm. No structures preserved. Calcareous concretion at 25 cm and large mollusc shell (recrystallized) at 28-31 cm. Pyrite and angular quartz, feldspar and mica in smear slides.  SMEAR SLIDE AND THIN SECTION SUMMARY (%):  <table style="margin-left: 40px;"> <tr> <td></td> <td>1, 25</td> <td>1, 42</td> <td>1, 57</td> </tr> <tr> <td></td> <td>M</td> <td>D</td> <td>D</td> </tr> </table> TEXTURE:  <table style="margin-left: 40px;"> <tr> <td>Sand</td> <td>—</td> <td>—</td> <td>10</td> </tr> <tr> <td>Silt</td> <td>—</td> <td>—</td> <td>25</td> </tr> <tr> <td>Clay</td> <td>—</td> <td>—</td> <td>65</td> </tr> </table> COMPOSITION:  <table style="margin-left: 40px;"> <tr> <td>Calcite</td> <td>—</td> <td>50</td> <td>—</td> </tr> <tr> <td>Carbonate recrystallized</td> <td>70</td> <td>—</td> <td>—</td> </tr> <tr> <td>Chert</td> <td>—</td> <td>—</td> <td>3</td> </tr> <tr> <td>Clay</td> <td>—</td> <td>30</td> <td>49</td> </tr> <tr> <td>Feldspar</td> <td>3</td> <td>—</td> <td>10</td> </tr> <tr> <td>Glass</td> <td>—</td> <td>—</td> <td>3</td> </tr> <tr> <td>Mica</td> <td>5</td> <td>—</td> <td>5</td> </tr> <tr> <td>Opaques (pyrite)</td> <td>10</td> <td>5</td> <td>10</td> </tr> <tr> <td>Quartz</td> <td>10</td> <td>15</td> <td>15</td> </tr> <tr> <td>Chert</td> <td>—</td> <td>—</td> <td>3</td> </tr> </table>		1, 25	1, 42	1, 57		M	D	D	Sand	—	—	10	Silt	—	—	25	Clay	—	—	65	Calcite	—	50	—	Carbonate recrystallized	70	—	—	Chert	—	—	3	Clay	—	30	49	Feldspar	3	—	10	Glass	—	—	3	Mica	5	—	5	Opaques (pyrite)	10	5	10	Quartz	10	15	15	Chert	—	—	3
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					1-3.38 0.487 2.74																																																																			
					CACO <sub>3</sub> 65.1%																																																																			



SITE 763 HOLE C CORE 5R CORED INTERVAL 654.6-660.6 mbsf

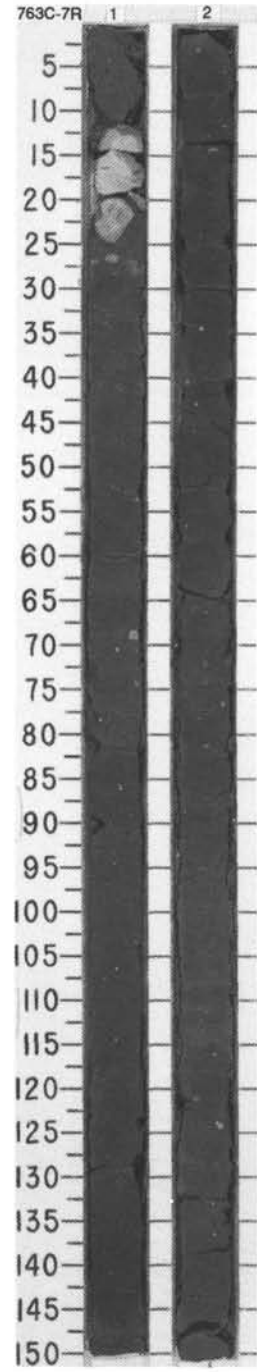
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																												
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAATOMS																																						
UPPER BERRIASIAN	R/M-P ?	VALANGINIAN						1						<p>SILTY CLAYSTONE WITH SAND, QUARTZ, AND FELDSPAR</p> <p>Drill disturbance is moderate.</p> <p>Major lithology: SILTY CLAYSTONE with SAND, QUARTZ, and FELDSPAR, dark olive gray (5Y 3/2), structureless, with disseminated pyrite (silt to very fine sand-sized) and two clusters of pyrite grains up to 2 mm diameter. Primary sedimentary structures are intact. Feldspars are moderately altered feldspar.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>1.53</td> </tr> <tr> <td>D</td> <td></td> </tr> </table> <p>TEXTURE:</p> <table border="0"> <tr> <td>Sand</td> <td>15</td> </tr> <tr> <td>Silt</td> <td>30</td> </tr> <tr> <td>Clay</td> <td>55</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Calcite/Dolomite</td> <td>8</td> </tr> <tr> <td>Calcareous fragments</td> <td>3</td> </tr> <tr> <td>Clay</td> <td>47</td> </tr> <tr> <td>Feldspar</td> <td>11</td> </tr> <tr> <td>Glauconite</td> <td>1</td> </tr> <tr> <td>Mica</td> <td>4</td> </tr> <tr> <td>Opales</td> <td>8</td> </tr> <tr> <td>Plant</td> <td>2</td> </tr> <tr> <td>Quartz</td> <td>16</td> </tr> </table>		1.53	D		Sand	15	Silt	30	Clay	55	Calcite/Dolomite	8	Calcareous fragments	3	Clay	47	Feldspar	11	Glauconite	1	Mica	4	Opales	8	Plant	2	Quartz	16
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Plant	2																																									
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SITE 763 HOLE C CORE 7R CORED INTERVAL 665.6-670.6 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																																																																																																																			
UPPER BERRIASIAN	R/M-P	Barren	NK1 - NK2	A/P							<p>SILTY CLAYSTONE WITH SAND AND QUARTZ AND SILTY CLAYSTONE WITH QUARTZ</p> <p>Major lithologies: SILT CLAYSTONE with SAND and QUARTZ and SILTY CLAYSTONE with QUARTZ, very dark gray (5Y 3/1), structureless or bioturbated with common small, horizontal blebs (&lt;1 X 3 mm) giving a sense of parallel laminations. Pyrite is common throughout, as silt to fine sand-sized, disseminated grains, and as pyrite or marcasite spherical to sub-rounded nodules up to 1 cm diameter.</p> <p>Minor lithologies: a. Calcite-cemented sandstone or silty sandstone, gray (2.5Y 6/1), fine-grained and moderately to poorly sorted containing a 1 X 4 m, light gray (2.5Y 7/2) claystone rip-up clast, occurs as 3 pieces (up to 5 cm diameter) in Section 1, 10-24 cm. b. Siderite or carbonate mudstone, light gray m(2.5Y 7/2), occurs as an elliptical nodule, 1 X 2 cm, in Section 1, 27-28 cm.</p> <p>SMEAR SLIDE AND THIN SECTION SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>1, 5</td> <td>1, 17</td> <td>1, 18</td> <td>1, 70</td> <td>2, 70</td> </tr> <tr> <td></td> <td>D</td> <td>M</td> <td>M</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="0"> <tr> <td>Sand</td> <td>10</td> <td>—</td> <td>—</td> <td>15</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>25</td> <td>—</td> <td>—</td> <td>35</td> <td>29</td> </tr> <tr> <td>Clay</td> <td>65</td> <td>—</td> <td>—</td> <td>50</td> <td>66</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Calcite/Dolomite</td> <td>6</td> <td>—</td> <td>—</td> <td>—</td> <td>2</td> </tr> <tr> <td>Carbonate grains</td> <td>4</td> <td>—</td> <td>—</td> <td>3</td> <td>3</td> </tr> <tr> <td>Cement</td> <td>—</td> <td>30</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>57</td> <td>—</td> <td>—</td> <td>55</td> <td>60</td> </tr> <tr> <td>Feldspar</td> <td>6</td> <td>10</td> <td>—</td> <td>5</td> <td>5</td> </tr> <tr> <td>Glauconite</td> <td>—</td> <td>—</td> <td>—</td> <td>1</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>2</td> <td>—</td> <td>—</td> <td>3</td> <td>1</td> </tr> <tr> <td>Nannofossils</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Opales</td> <td>5</td> <td>—</td> <td>—</td> <td>7</td> <td>5</td> </tr> <tr> <td>Plant</td> <td>2</td> <td>—</td> <td>—</td> <td>3</td> <td>3</td> </tr> <tr> <td>Quartz</td> <td>10</td> <td>60</td> <td>—</td> <td>15</td> <td>13</td> </tr> <tr> <td>Rock fragment</td> <td>7</td> <td>—</td> <td>—</td> <td>8</td> <td>8</td> </tr> <tr> <td>Zircon</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> </tr> </table>		1, 5	1, 17	1, 18	1, 70	2, 70		D	M	M	D	D	Sand	10	—	—	15	5	Silt	25	—	—	35	29	Clay	65	—	—	50	66	Calcite/Dolomite	6	—	—	—	2	Carbonate grains	4	—	—	3	3	Cement	—	30	—	—	—	Clay	57	—	—	55	60	Feldspar	6	10	—	5	5	Glauconite	—	—	—	1	—	Mica	2	—	—	3	1	Nannofossils	Tr	—	—	—	Tr	Opales	5	—	—	7	5	Plant	2	—	—	3	3	Quartz	10	60	—	15	13	Rock fragment	7	—	—	8	8	Zircon	—	—	—	Tr	—
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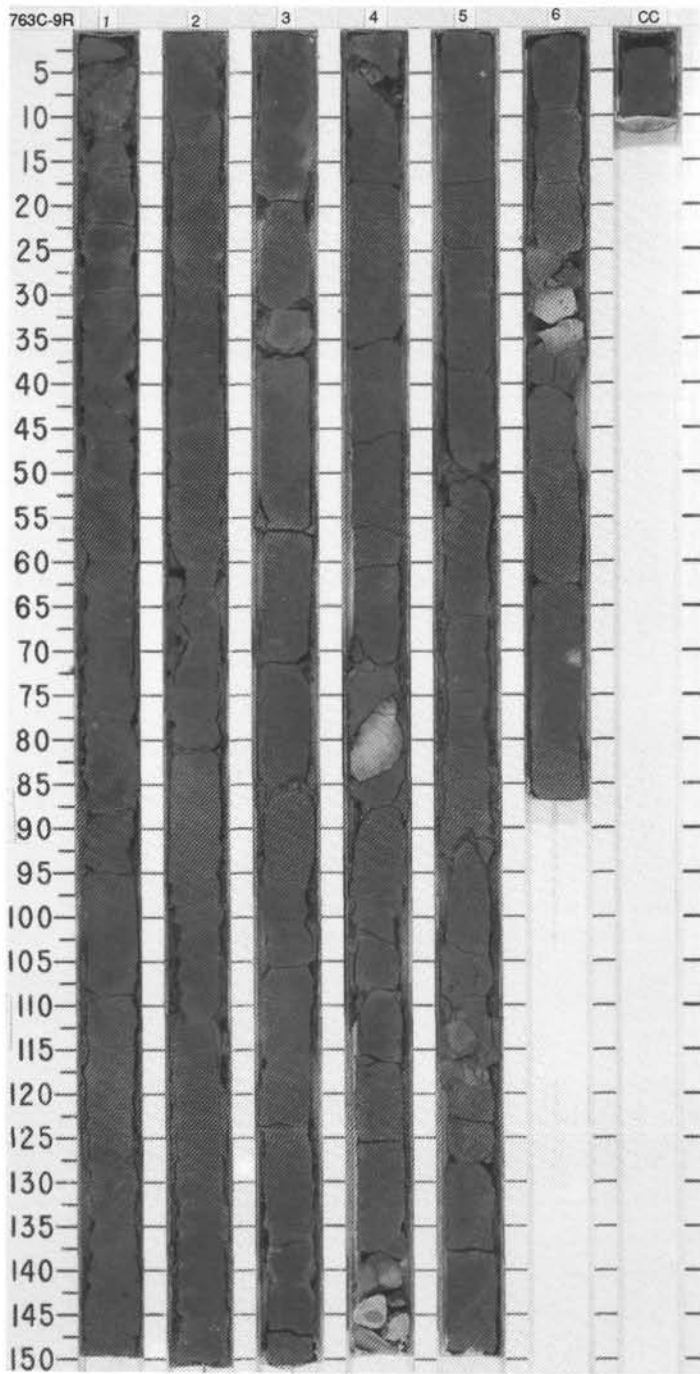
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
UPPER BERRIASIAN	?	?											
	R/P	R/P	Bartén	C/P									
				<i>B. reticulatum</i>									
					CaCO <sub>3</sub> =1.9% TOC=1.92%								
					CaCO <sub>3</sub> =3.2% TOC=1.57%								
					CaCO <sub>3</sub> =66.4% TOC=0.67%								
					CaCO <sub>3</sub> =1.24% TOC=1.24%								
					CaCO <sub>3</sub> =3.83% TOC=2.57%								



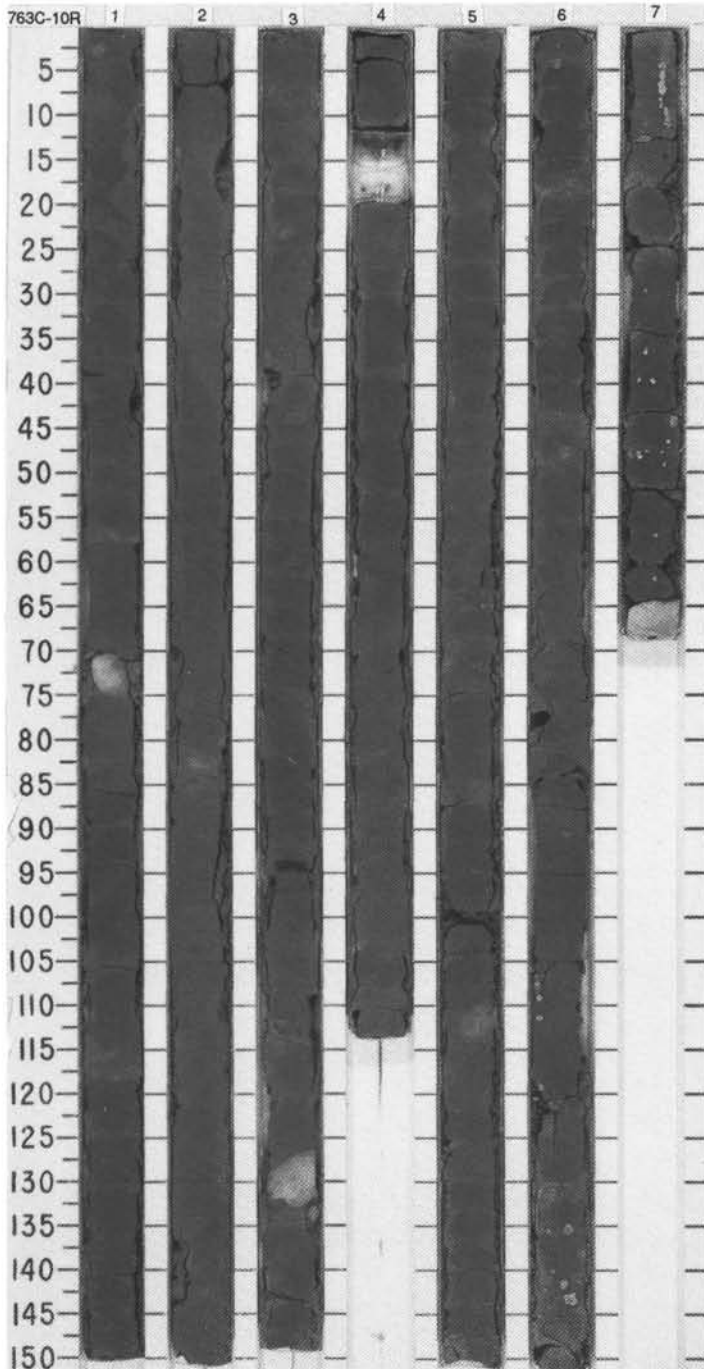


SITE 763 HOLE C CORE 9R CORED INTERVAL 675.6-685.1 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS						
UPPER BERRIASIAN	Barren	Barren	Barren							
	C/P	<i>B. reticulatum</i>	( $\text{CaCO}_3$ )=5.5%	TOC=0.37%	0.5					
			( $\text{CaCO}_3$ )=1.09%	TOC=0.37%	1.0					
			( $\text{CaCO}_3$ )=1.5%	TOC=0.87%	1.5					
			( $\text{CaCO}_3$ )=1.5%	TOC=0.87%	2.0					
			( $\text{CaCO}_3$ )=6.1%	TOC=0.87%	2.5					
			( $\text{CaCO}_3$ )=7.4%	TOC=0.82%	3.0					
			( $\text{CaCO}_3$ )=6.5%	TOC=0.87%	3.5					
			( $\text{CaCO}_3$ )=6.1%	TOC=0.87%	4.0					
			( $\text{CaCO}_3$ )=6.1%	TOC=0.87%	4.5					
			( $\text{CaCO}_3$ )=6.1%	TOC=0.87%	5.0					
			( $\text{CaCO}_3$ )=6.1%	TOC=0.87%	5.5					
			( $\text{CaCO}_3$ )=6.1%	TOC=0.87%	6.0					

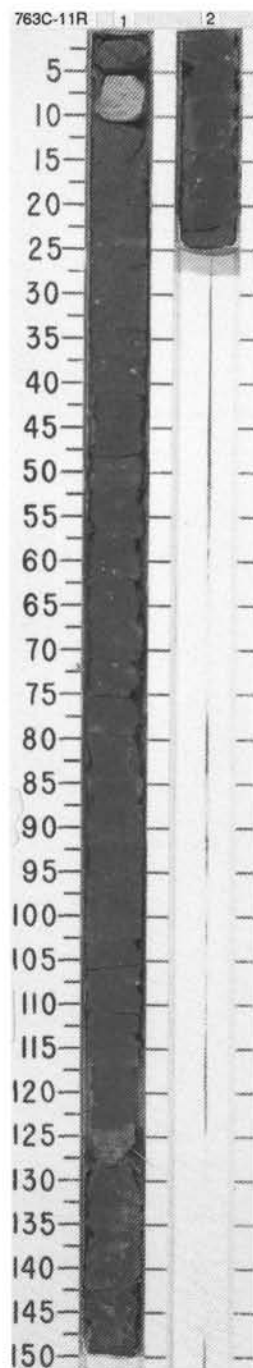


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																								
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALYNOSTRAPHS																																																																															
MIDDLE - UPPER BERRIASIAN	Barren	Barren	Barren									<p>SILTY CLAYSTONE</p> <p>Drilling disturbance is weak to moderate</p> <p>Major lithology: SILTY CLAYSTONE, dark olive gray (5G 3/2), with rare small horizontal burrows which may give a laminated appearance (e.g. Section 7). Quartz is abundant in the upper part of the core (20-30%, Sections 1 to 4). Authigenic mica-illite is abundant and glauconite may also be present (Section 7). Numerous pyrite nodules, approximately 1 cm in diameter, are scattered in the lower part (Sections 6 and 7).</p> <p>Minor lithologies:</p> <p>a. Carbonate (siderite), olive gray (5Y 5/2), with diffuse, gradational contacts is present, commonly associated with strong bioturbation, and forms hard carbonate nodules (Sections 1, 3, and 7).</p> <p>b. Silty claystone with sand, dark olive gray (5Y 3/2), with abundant horizontal burrows and minor laminae.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 93</td> <td>4, 85</td> <td>5, 110</td> <td>6, 93</td> <td>7, 12</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>M</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>5</td> <td>5</td> <td>—</td> <td>5</td> <td>15</td> </tr> <tr> <td>Silt</td> <td>40</td> <td>30</td> <td>—</td> <td>35</td> <td>25</td> </tr> <tr> <td>Clay</td> <td>55</td> <td>60</td> <td>—</td> <td>60</td> <td>60</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Carbonate, authigenic</td> <td>7</td> <td>5</td> <td>10</td> <td>—</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>55</td> <td>60</td> <td>—</td> <td>60</td> <td>60</td> </tr> <tr> <td>Feldspar</td> <td>—</td> <td>—</td> <td>3</td> <td>—</td> <td>—</td> </tr> <tr> <td>Glauconite</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>13</td> </tr> <tr> <td>Mica</td> <td>—</td> <td>5</td> <td>80</td> <td>15</td> <td>10</td> </tr> <tr> <td>Pyrite</td> <td>8</td> <td>10</td> <td>2</td> <td>20</td> <td>10</td> </tr> <tr> <td>Quartz</td> <td>30</td> <td>20</td> <td>5</td> <td>5</td> <td>7</td> </tr> </table>		1, 93	4, 85	5, 110	6, 93	7, 12		D	D	M	D	D	Sand	5	5	—	5	15	Silt	40	30	—	35	25	Clay	55	60	—	60	60	Carbonate, authigenic	7	5	10	—	—	Clay	55	60	—	60	60	Feldspar	—	—	3	—	—	Glauconite	—	—	—	—	13	Mica	—	5	80	15	10	Pyrite	8	10	2	20	10	Quartz	30	20	5	5	7
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SITE 763 HOLE C CORE 11R CORED INTERVAL 694.6-704.1 mbsf

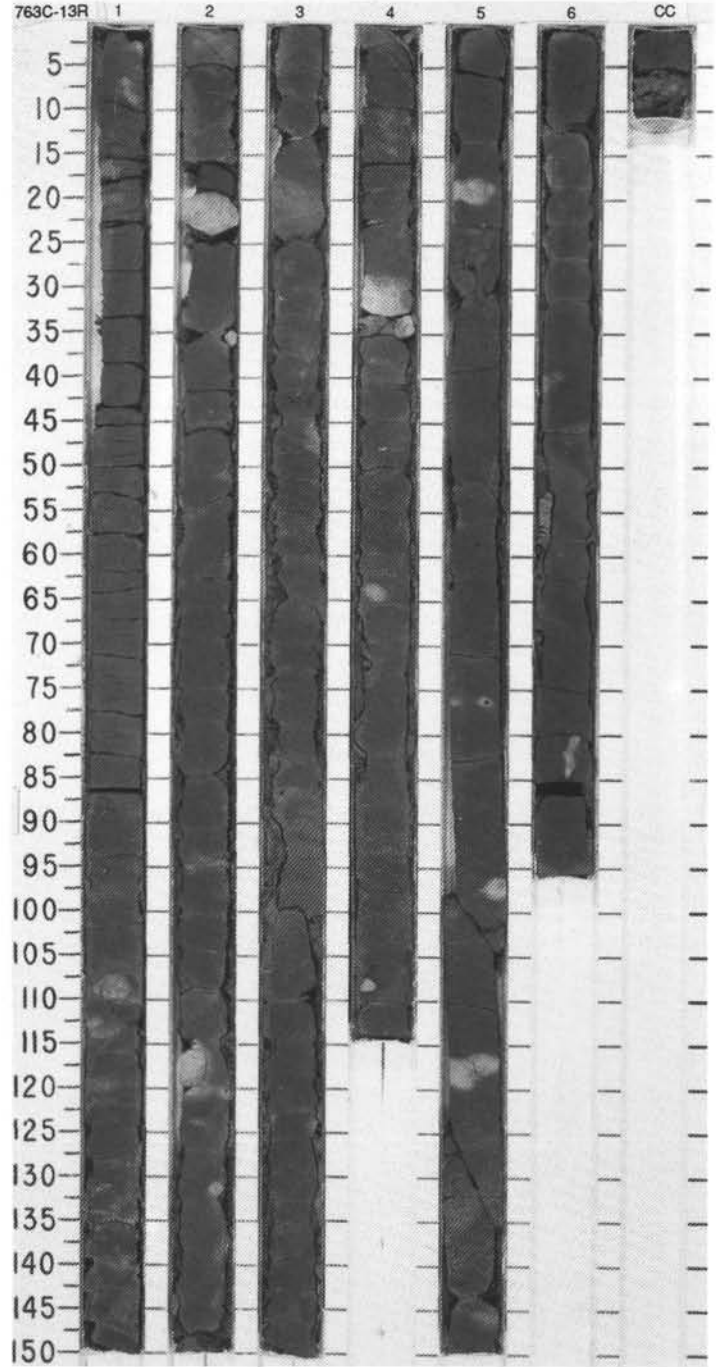
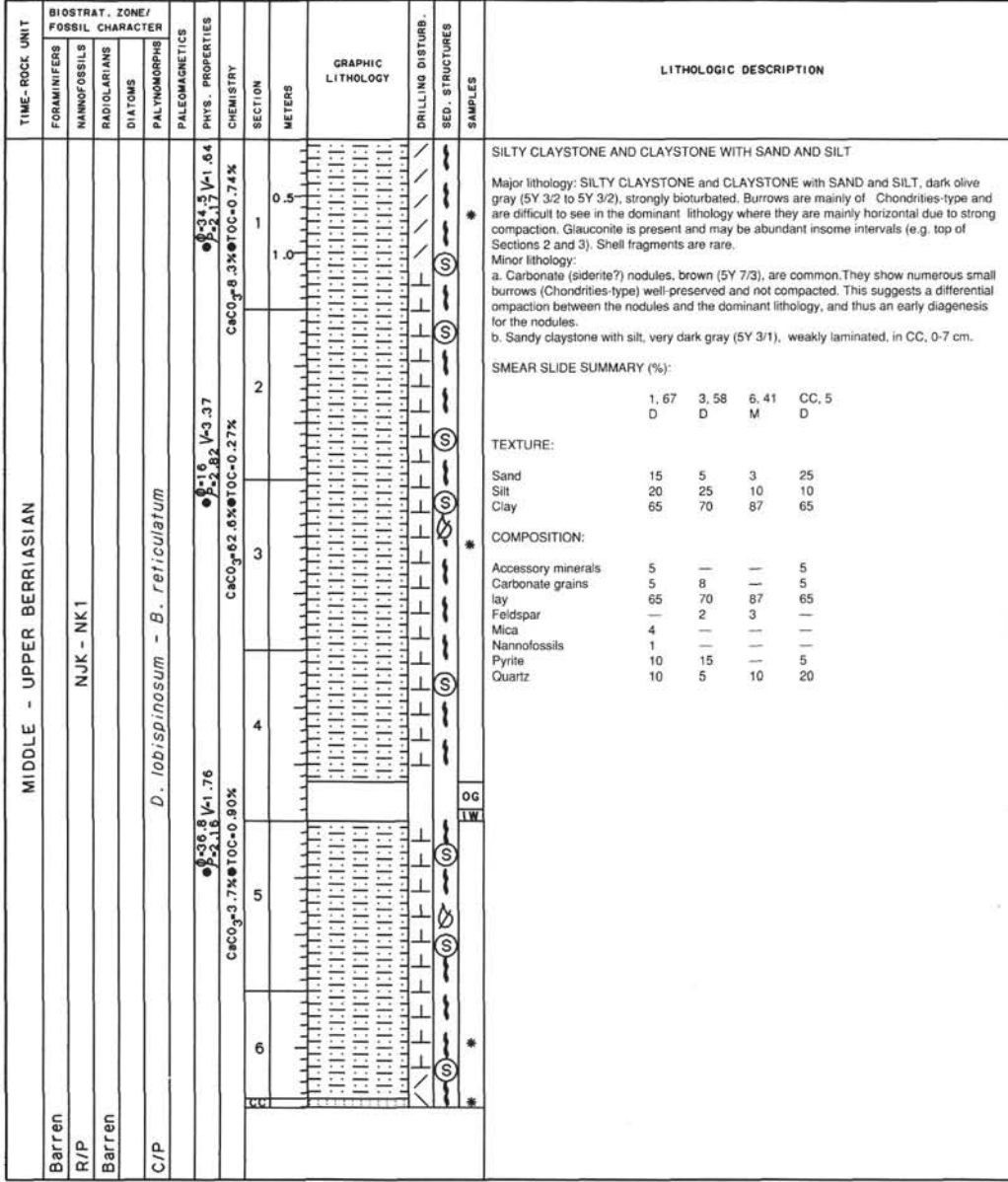
TIME - ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALYNOMORPHS									
MIDDLE - UPPER BERRIASIAN														
R/M	?								1					
Barren														
Barren														
C/P									2					
								♠37.7 V-1.61 ♠2.23						
								♠CaCO <sub>3</sub> 0.85 TOC=0.89%						



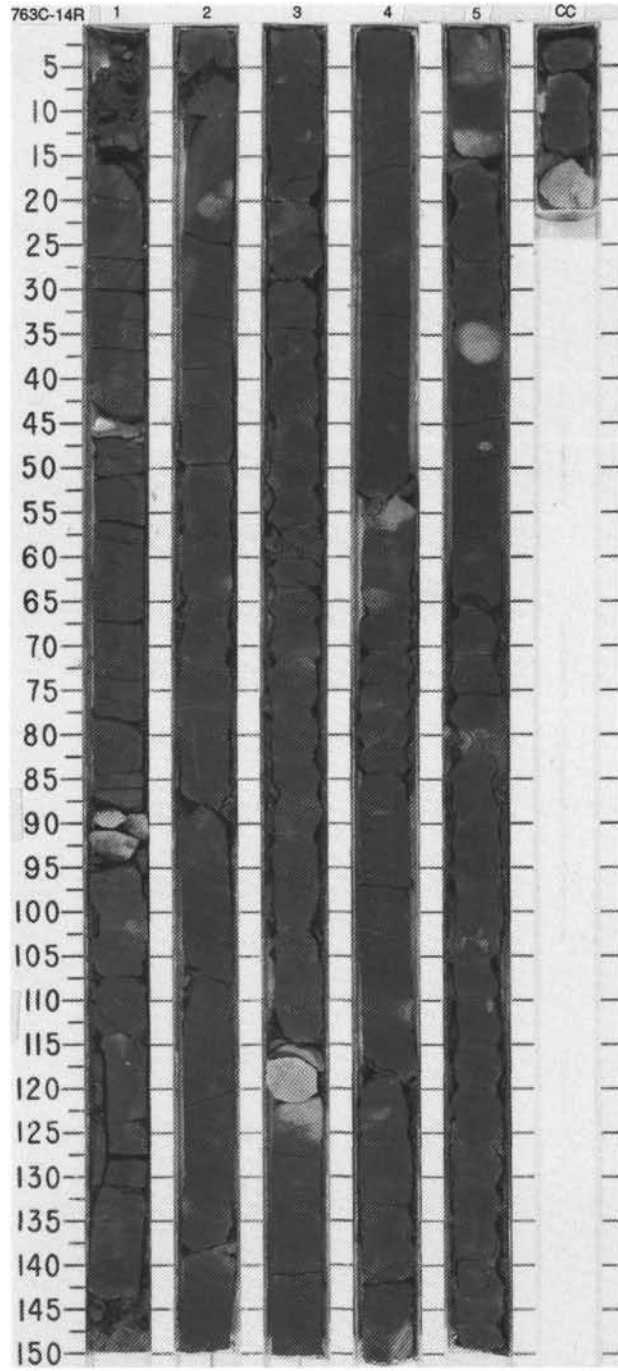
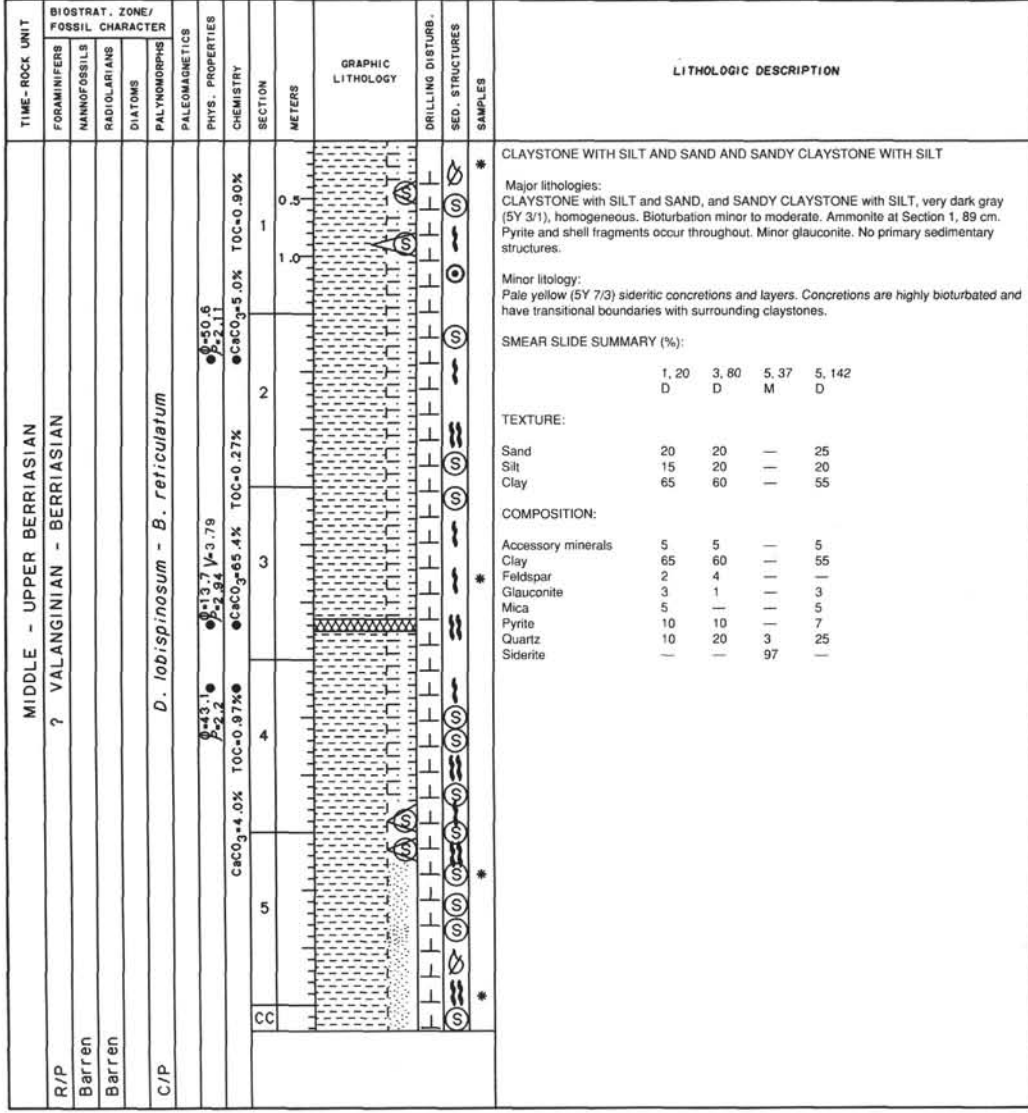
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MIDDLE - UPPER BERRIASIAN		Barren						<p>CLAYSTONE WITH SILT AND CALCITE-CEMENTED QUARTZ SANDSTONE</p> <p>Major lithologies: CLAYSTONE with SILT, dark gray (5Y 4/1), bioturbated, sideritized claystone with relatively low silt and sand content. Siderite seems more prevalent in the bioturbated intervals which average about 1 m apart and can be seen on the surface of siderite nodules. In other intervals, burrows are elongated into laminae. Several large (3-5 mm) quartz grains are in the base of Section 2. Glauconite in Section 2, 0-50 cm. Siderite may show a minor increase over the last few cores (Cores 122-763C-10R to 12R). CALCITE-CEMENTED QUARTZ SANDSTONE, light gray (5Y 7/1), 30 cm interval of quartz-cemented sandstone with few features other than minor bioclasts (?bivalves).</p> <p>Minor lithology: Siderite concretions, pale olive (5Y 6/3), with well-preserved bioturbation structures. Concretions range from approximately 1-3, cm in width and have both sharp and gradational boundaries. Their location is shown in the sedimentary structures column.</p> <p>SMEAR SLIDE AND THIN SECTION SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 10</td> <td>1, 46</td> <td>1, 95</td> <td>2, 18</td> </tr> <tr> <td>D</td> <td></td> <td></td> <td></td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>—</td> <td>5</td> <td>5</td> <td>10</td> </tr> <tr> <td>Silt</td> <td>—</td> <td>10</td> <td>9</td> <td>15</td> </tr> <tr> <td>Clay</td> <td>—</td> <td>85</td> <td>86</td> <td>75</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>—</td> <td>5</td> <td>—</td> <td>7</td> </tr> <tr> <td>Cement</td> <td>30</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>—</td> <td>85</td> <td>90</td> <td>75</td> </tr> <tr> <td>Feldspar</td> <td>10</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>—</td> <td>3</td> <td>—</td> <td>3</td> </tr> <tr> <td>Opagues</td> <td>5</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Pyrite</td> <td>—</td> <td>2</td> <td>5</td> <td>5</td> </tr> <tr> <td>Quartz</td> <td>50</td> <td>5</td> <td>5</td> <td>10</td> </tr> <tr> <td>Rock fragment</td> <td>3</td> <td>—</td> <td>—</td> <td>—</td> </tr> </table>		1, 10	1, 46	1, 95	2, 18	D				D	Sand	—	5	5	10	Silt	—	10	9	15	Clay	—	85	86	75	Accessory minerals	—	5	—	7	Cement	30	—	—	—	Clay	—	85	90	75	Feldspar	10	—	—	—	Mica	—	3	—	3	Opagues	5	—	—	—	Pyrite	—	2	5	5	Quartz	50	5	5	10	Rock fragment	3	—	—	—
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Barren	<i>D. lobispinosum</i> - <i>B. reticulatum</i>																																																																													



SITE 763 HOLE C CORE 13R CORED INTERVAL 713.6-723.1 mbsf











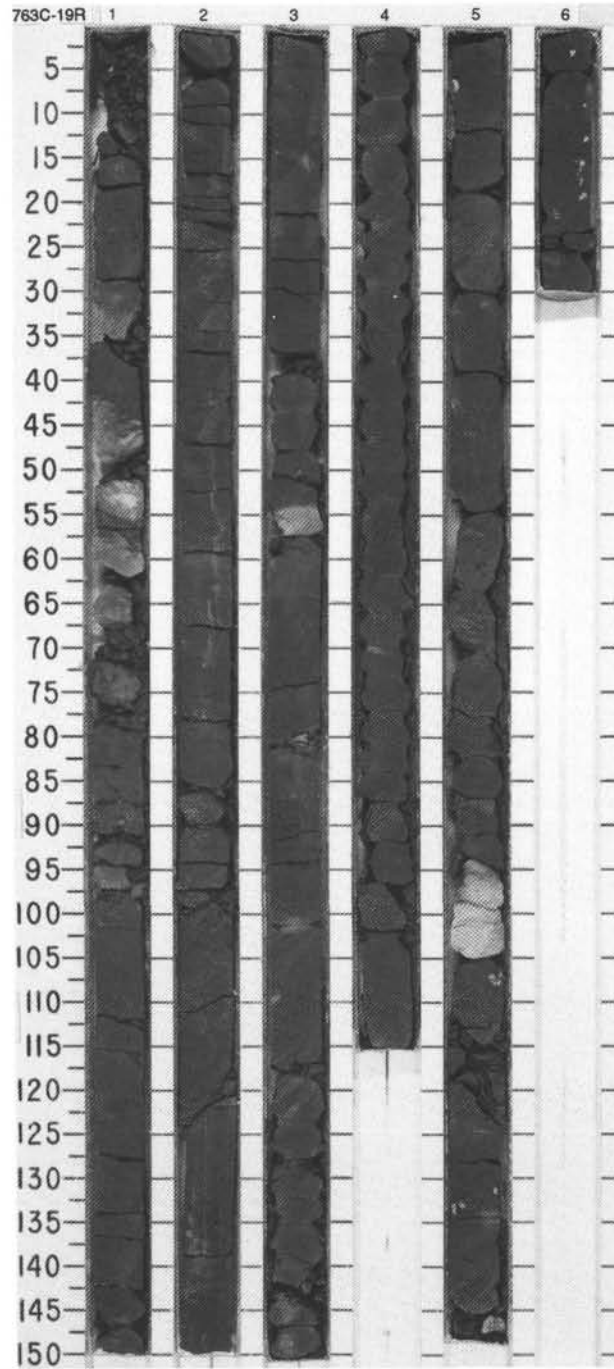




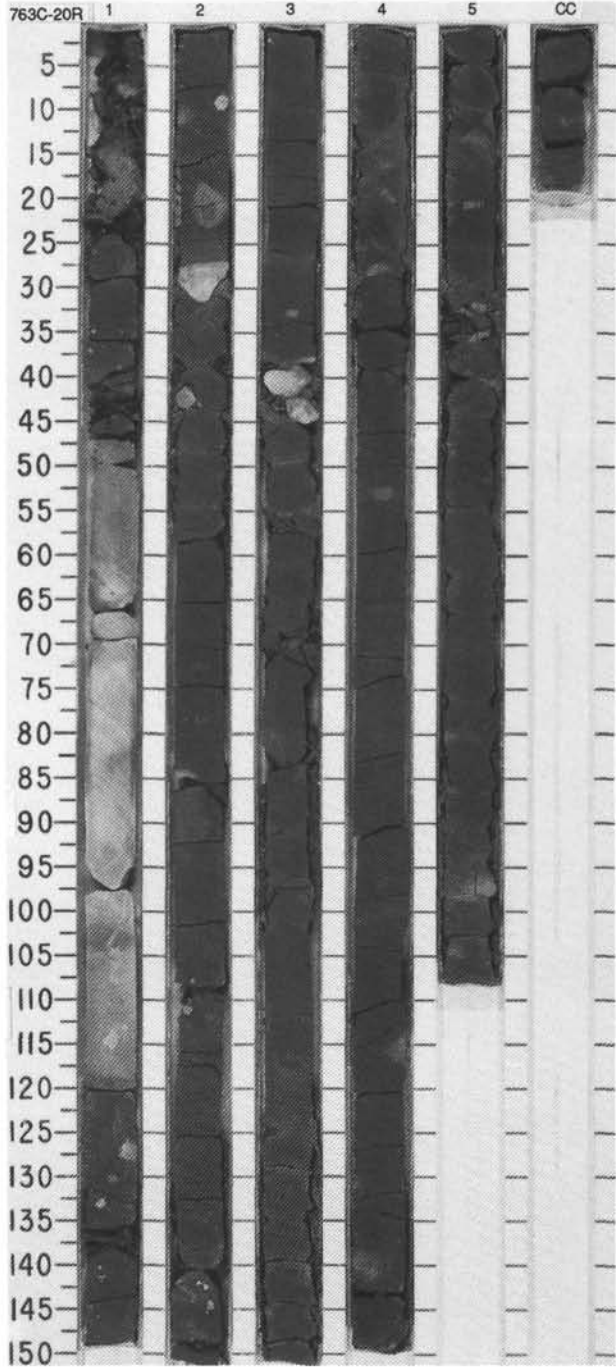


SITE 763 HOLE C CORE 19R CORED INTERVAL 770.6-780.1 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																				
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MIDDLE - UPPER BERRIASIAN										<p><b>SANDY SILTY CLAYSTONE WITH QUARTZ</b></p> <p>Major lithology: SANDY SILTY CLAYSTONE with QUARTZ, very dark gray (5Y 3/1) to dark gray (5Y 4/1 to N4), occurs with several facies types: 1) Structureless to bioturbated, finer-grained intervals of silty claystone (with sand?) are one facies type, and contain pyrite nodules (1 cm diameter up to 2 X 3 cm) occupying burrows. Siderite nodules with diffuse boundaries are present. This facies occurs in Section 3, 114-150, and Section 5, 107 to 6, 31 cm. 2) Poorly graded intervals contain common glauconite pellets at the base, and pass upward into faintly laminated and slightly fissile intervals with minor to absent glauconite pellets, and are overlain by structureless or bioturbated, finer-grained intervals (Section 1, 77-94 cm; Section 2, 0-99 cm, Section 4, 0-115 cm; and Section 5, 0-95 cm). Section 2, 0-99 cm has a faulted base (indicated by slickensides at 99 cm), and overlies a 1.05 m-thick, graded? bed without glauconite pellets in Section 2, 99 cm to 3, 54 cm).</p> <p>Minor lithologies:                      a. Siderite (?) to iron-poor calcium carbonate nodules, grayish brown (2.5Y 5/2), light brownish gray (2.5Y 6/2) to gray (N6), occur as 1 cm thick nodules to 12 cm thick layers with matrix-supported glauconite pellets and minor siliciclastic grains, in Section 1, 35-41 and 69-77 cm; Section 3, 78-80 cm; and Section 5, 95-107 cm. Burrows are sideritized.                      b. Calcareous silty claystone, mottled dark gray (5Y 4/1) to light gray (N5, 2.5Y 7/2), partially calcified and sideritized, in Section 1, 41-69 cm.</p> <p><b>SMEAR SLIDE SUMMARY (%):</b></p> <table border="1"> <tr> <td></td> <td>1, 114</td> <td>2, 75</td> <td>3, 65</td> <td>5, 62</td> </tr> <tr> <td>D</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p><b>TEXTURE:</b></p> <table border="1"> <tr> <td>Sand</td> <td>25</td> <td>25</td> <td>30</td> <td>30</td> </tr> <tr> <td>Silt</td> <td>30</td> <td>30</td> <td>30</td> <td>30</td> </tr> <tr> <td>Clay</td> <td>45</td> <td>45</td> <td>40</td> <td>35</td> </tr> </table> <p><b>COMPOSITION:</b></p> <table border="1"> <tr> <td>Accessory minerals</td> <td>—</td> <td>—</td> <td>3</td> <td>—</td> </tr> <tr> <td>Biotite</td> <td>2</td> <td>—</td> <td>2</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>52</td> <td>52</td> <td>48</td> <td>31</td> </tr> <tr> <td>Feldspar</td> <td>10</td> <td>10</td> <td>10</td> <td>5</td> </tr> <tr> <td>Foraminifers</td> <td>1</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Glauconite</td> <td>—</td> <td>—</td> <td>1</td> <td>2</td> </tr> <tr> <td>Mica</td> <td>3</td> <td>5</td> <td>2</td> <td>3</td> </tr> <tr> <td>Muscovite</td> <td>—</td> <td>—</td> <td>—</td> <td>2</td> </tr> <tr> <td>Nannofossils</td> <td>1</td> <td>1</td> <td>1</td> <td>5</td> </tr> <tr> <td>Opauques</td> <td>10</td> <td>5</td> <td>—</td> <td>10</td> </tr> <tr> <td>Other</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Plant</td> <td>1</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Quartz</td> <td>20</td> <td>20</td> <td>30</td> <td>25</td> </tr> <tr> <td>Rock fragment</td> <td>—</td> <td>—</td> <td>—</td> <td>5</td> </tr> <tr> <td>Zircon</td> <td>—</td> <td>—</td> <td>1</td> <td>—</td> </tr> </table>		1, 114	2, 75	3, 65	5, 62	D					Sand	25	25	30	30	Silt	30	30	30	30	Clay	45	45	40	35	Accessory minerals	—	—	3	—	Biotite	2	—	2	—	Clay	52	52	48	31	Feldspar	10	10	10	5	Foraminifers	1	—	—	—	Glauconite	—	—	1	2	Mica	3	5	2	3	Muscovite	—	—	—	2	Nannofossils	1	1	1	5	Opauques	10	5	—	10	Other	—	—	—	—	Plant	1	2	2	2	Quartz	20	20	30	25	Rock fragment	—	—	—	5	Zircon	—	—	1	—
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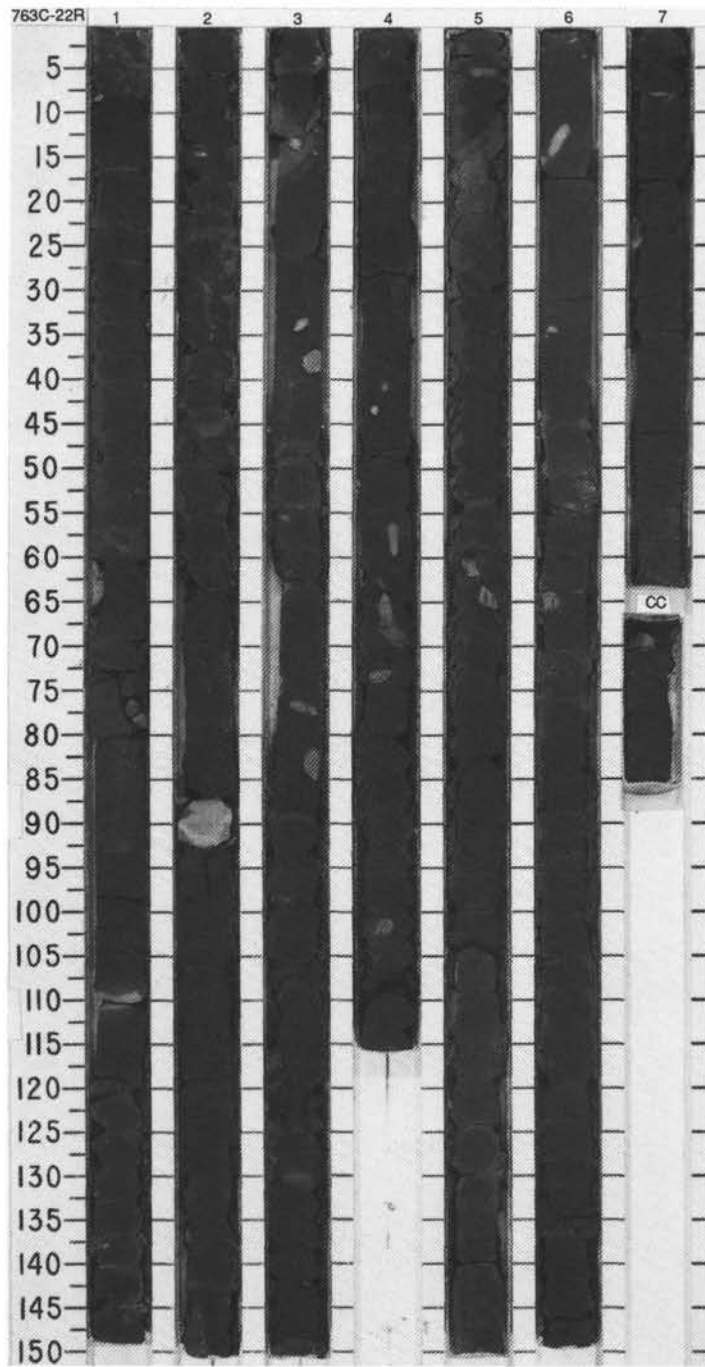


TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS		PHYS. PROPERTIES	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTORB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																																														
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MIDDLE - UPPER BERRIASIAN	LOWER CRETACEOUS	<i>D. lobispinosum - B. reticulatum</i>										<p>SILTY CLAYSTONE, SILTSTONE WITH CLAY, AND CLAYSTONE WITH SILT</p> <p>The core is slightly to moderately disturbed by drilling.</p> <p>Major lithologies:</p> <p>SILTY CLAYSTONE, SILTSTONE with CLAY, and CLAYSTONE with SILT. dark gray (5Y 3/1), gradational contacts, distinct lithologic boundaries are not present. Sediments are commonly massive or slightly laminated. Locally, there are intervals of increased burrowing (1-1.5 mm tubes). The siderite nodules commonly preserve such burrows. It is possible that some of the faint laminations are derived from compaction of horizontally burrowed sediment (pseudolamination). Thin-shelled mollusc fragments (?ammonites) occur throughout the sediment.</p> <p>Minor lithologies:</p> <p>a. Calcite-cemented medium-grained quartz sandstone, in Section 1, 45-100 cm, very dark gray (5Y 3/1). Average grain size of the sand is 300 microns. From 100-120 cm, the sandstone becomes progressively richer in clay (clayey sandstone and sandstone with clay) and finer-grained (clayey siltstone), and grades downward to silty claystone.</p> <p>b. Clayey limestone, in Section 2, 30-35 cm and Section 3, 37-42 cm, in blocks, probably partly spherulitized, and intensely bioturbated.</p> <p>c. Siderite, nodules, spherulitized burrow fillings and siderite-rich blebs and bands, 1-5 cm across, are common with siderite content up to 75%. Some of the siderite nodules are associated with pyrite, olive (5Y 5/3), olive gray (5Y 5/2), and dark gray (5Y 4/1). Location shown in sedimentary structures column.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 129</td> <td>2, 27</td> <td>3, 32</td> <td>4, 53</td> <td>5, 20</td> </tr> <tr> <td></td> <td>D</td> <td>M</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>—</td> <td>—</td> <td>—</td> <td>5</td> <td>1</td> </tr> <tr> <td>Silt</td> <td>42</td> <td>—</td> <td>20</td> <td>75</td> <td>34</td> </tr> <tr> <td>Clay</td> <td>58</td> <td>—</td> <td>80</td> <td>20</td> <td>65</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>—</td> <td>1</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Biotite</td> <td>2</td> <td>3</td> <td>1</td> <td>—</td> <td>—</td> </tr> <tr> <td>Carbonate, authigenic</td> <td>5</td> <td>71</td> <td>Tr</td> <td>10</td> <td>3</td> </tr> <tr> <td>Clay</td> <td>58</td> <td>10</td> <td>76</td> <td>20</td> <td>62</td> </tr> <tr> <td>Feldspar</td> <td>2</td> <td>—</td> <td>3</td> <td>15</td> <td>7</td> </tr> <tr> <td>Foraminifers</td> <td>—</td> <td>—</td> <td>Tr</td> <td>1</td> <td>—</td> </tr> <tr> <td>Glaucinite</td> <td>—</td> <td>Tr</td> <td>Tr</td> <td>2</td> <td>1</td> </tr> <tr> <td>Heavy minerals</td> <td>—</td> <td>—</td> <td>—</td> <td>2</td> <td>—</td> </tr> <tr> <td>Hypersthene</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>7</td> <td>5</td> <td>3</td> <td>10</td> <td>5</td> </tr> <tr> <td>Nannofossils</td> <td>2</td> <td>—</td> <td>1</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Plant</td> <td>3</td> <td>1</td> <td>3</td> <td>3</td> <td>5</td> </tr> <tr> <td>Pyrite</td> <td>10</td> <td>5</td> <td>5</td> <td>10</td> <td>7</td> </tr> <tr> <td>Quartz</td> <td>8</td> <td>4</td> <td>7</td> <td>25</td> <td>10</td> </tr> <tr> <td>Sericite</td> <td>—</td> <td>—</td> <td>1</td> <td>—</td> <td>—</td> </tr> <tr> <td>Zeolite</td> <td>2</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> </table>		1, 129	2, 27	3, 32	4, 53	5, 20		D	M	D	D	D	Sand	—	—	—	5	1	Silt	42	—	20	75	34	Clay	58	—	80	20	65	Accessory minerals	—	1	—	—	—	Biotite	2	3	1	—	—	Carbonate, authigenic	5	71	Tr	10	3	Clay	58	10	76	20	62	Feldspar	2	—	3	15	7	Foraminifers	—	—	Tr	1	—	Glaucinite	—	Tr	Tr	2	1	Heavy minerals	—	—	—	2	—	Hypersthene	—	—	—	Tr	—	Mica	7	5	3	10	5	Nannofossils	2	—	1	—	Tr	Plant	3	1	3	3	5	Pyrite	10	5	5	10	7	Quartz	8	4	7	25	10	Sericite	—	—	1	—	—	Zeolite	2	—	—	—	—
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<p>Chemistry data:                      Section 1: V<sub>5</sub> 1.19, V<sub>2</sub> 1.68                      Section 2: V<sub>1</sub> 1.74                      Section 3: CaCO<sub>3</sub> 1.4%, TOC 0.80%                      Section 4: V<sub>1</sub> 1.75, CaCO<sub>3</sub> 4.3%, TOC 0.85%                 </p>																																																																																																																																										



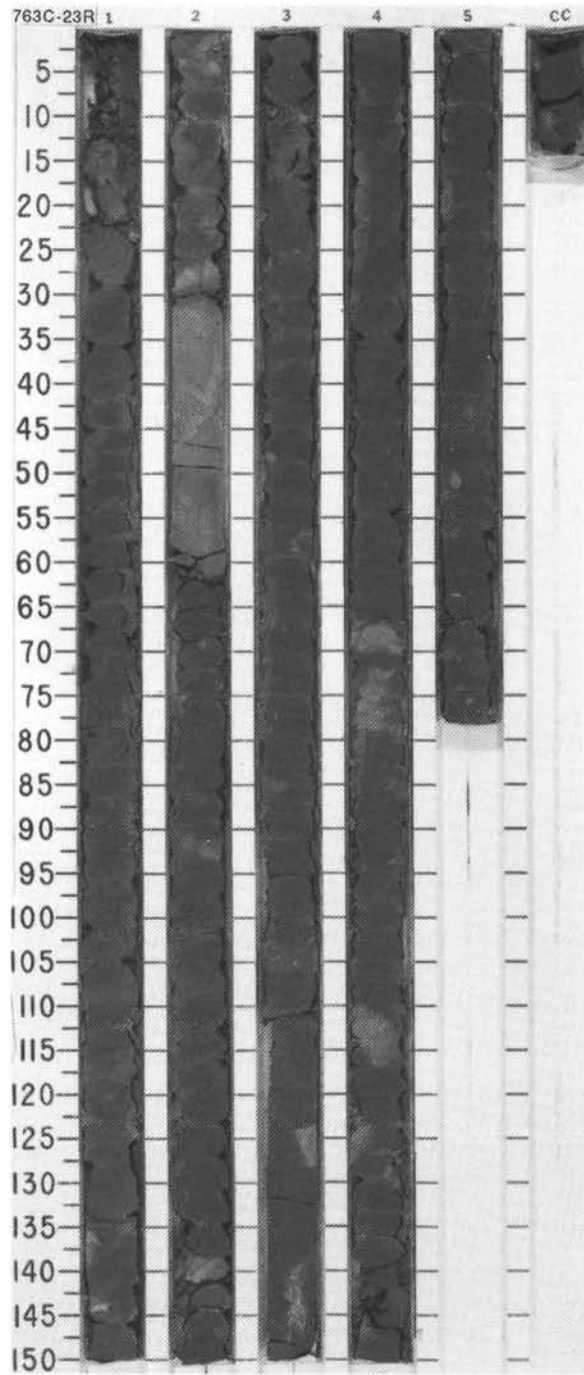


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																																														
	FORAMINIFERS	MAMMOFOSBILLS	RADIOLARIANS	DIATOMS										PALYNOMORPHS																																																																																																																													
MIDDLE - UPPER BERRIASIAN	BERRIASIAN - UPPER VALANGINIAN												<p>SILTY CLAYSTONE AND CLAYSTONE WITH SILT</p> <p>The core is slightly to moderately disturbed by drilling.</p> <p>Major lithologies:</p> <p>SILTY CLAYSTONE and CLAYSTONE WITH SILT, very dark gray (5Y 3/1), dominantly massive, minor laminae. Burrow structures (1-1.5 mm tubes), more abundant in Sections 3-CC. Possibly, some of the faint laminations in the claystones derive from compaction of horizontally burrowed sediment (pseudolamination).</p> <p>Minor lithology: Siderite nodules, sideritized burrow fillings and siderite-rich blebs and bands, 1-5 cm across, olive (5Y 5/3) and olive gray (5Y 5/2) are common, with siderite content up to 30% in one of these sideritized zones (Section 6, 65 cm) an unusually abundant amount of highly crystalline clay mineral (?mica-illite) was found.</p> <p>SMEAR SLIDE AND THIN SECTION SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 93</td> <td>2, 45</td> <td>3, 88</td> <td>3, 131</td> <td>5, 5</td> <td>6, 65</td> </tr> <tr> <td></td> <td>D</td> <td>D</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>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Silt</td> <td>13</td> <td>44</td> <td>—</td> <td>44</td> <td>49</td> <td>70</td> </tr> <tr> <td>Clay</td> <td>87</td> <td>56</td> <td>—</td> <td>56</td> <td>51</td> <td>30</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>Tr</td> <td>Tr</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Biotite</td> <td>Tr</td> <td>Tr</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>87</td> <td>56</td> <td>—</td> <td>56</td> <td>50</td> <td>30</td> </tr> <tr> <td>Feldspar</td> <td>1</td> <td>3</td> <td>—</td> <td>3</td> <td>2</td> <td>1</td> </tr> <tr> <td>Fish</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Glauconite</td> <td>—</td> <td>Tr</td> <td>—</td> <td>Tr</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Illite</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>34</td> </tr> <tr> <td>Mica</td> <td>Tr</td> <td>5</td> <td>—</td> <td>3</td> <td>3</td> <td>Tr</td> </tr> <tr> <td>Opauques</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Plant</td> <td>Tr</td> <td>3</td> <td>—</td> <td>3</td> <td>2</td> <td>Tr</td> </tr> <tr> <td>Pyrite</td> <td>Tr</td> <td>3</td> <td>—</td> <td>5</td> <td>4</td> <td>Tr</td> </tr> <tr> <td>Quartz</td> <td>2</td> <td>20</td> <td>—</td> <td>20</td> <td>34</td> <td>5</td> </tr> <tr> <td>Siderite</td> <td>10</td> <td>10</td> <td>—</td> <td>10</td> <td>5</td> <td>30</td> </tr> </table>		1, 93	2, 45	3, 88	3, 131	5, 5	6, 65		D	D	M	D	D	M	Sand	—	—	—	—	—	—	Silt	13	44	—	44	49	70	Clay	87	56	—	56	51	30	Accessory minerals	Tr	Tr	—	Tr	—	—	Biotite	Tr	Tr	—	—	Tr	—	Clay	87	56	—	56	50	30	Feldspar	1	3	—	3	2	1	Fish	—	—	—	Tr	—	—	Glauconite	—	Tr	—	Tr	Tr	—	Illite	—	—	—	—	—	34	Mica	Tr	5	—	3	3	Tr	Opauques	—	—	—	Tr	—	—	Plant	Tr	3	—	3	2	Tr	Pyrite	Tr	3	—	5	4	Tr	Quartz	2	20	—	20	34	5	Siderite	10	10	—	10	5	30
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SITE 763 HOLE C CORE 23R CORED INTERVAL 808.6-818.1 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NAUPOFOSSILS	RADIOLARIANS	DIATOMS									
MIDDLE - UPPER BERRIASIAN ?													
R/M													
Barren													
Barren													
F/P	<i>D. lobispinosum - B. reticulatum</i>												
					(C)CO <sub>3</sub> =31.9% TOC=0.03% V=1.66 ● 0.25 ● 0.35 P=2.31 V=1.56 P=2.21 ● 0.24 ● 0.27 V=4.06 ● 0.25 ● 0.28 ● 0.33 ● 0.35 C=CO <sub>2</sub> =5.6% TOC=0.77% ● C=CO <sub>3</sub> =5.7% TOC=0.78%								
					C=CO <sub>2</sub> =1.0% TOC=0.91%								





SITE 763 HOLE C CORE 24R CORED INTERVAL 818.1-827.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION					
	FORAMINIFERS																
	NAHNOFOSSILS																
	RADIOLARIANS																
MIDDLE - UPPER BERRIASIAN ?																	
R/M -G																	
Barren																	
Barren																	
F/P	<i>D. lobispinosum - B. reticulatum</i>																
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SILTY CLAYSTONE AND CLAYSTONE WITH SILT.

Major lithologies:  
SILTY CLAYSTONE and CLAYSTONE with SILT, very dark gray (5Y 3/1). Bioturbation is not obvious but may exist (Chondrites). Gastropod shell fragments are present.

Minor lithologies:  
a. Calcite-cemented quartz sandstone in Section 1, 5-10 cm, moderately sorted.  
b. Carbonate (siderite?) nodules, olive gray (5Y 5/2), are common in Section 2 and rare in Sections 3, 4, and 5. Carbonate in nodules prevents compaction of sediment.

SMEAR SLIDE SUMMARY (%):

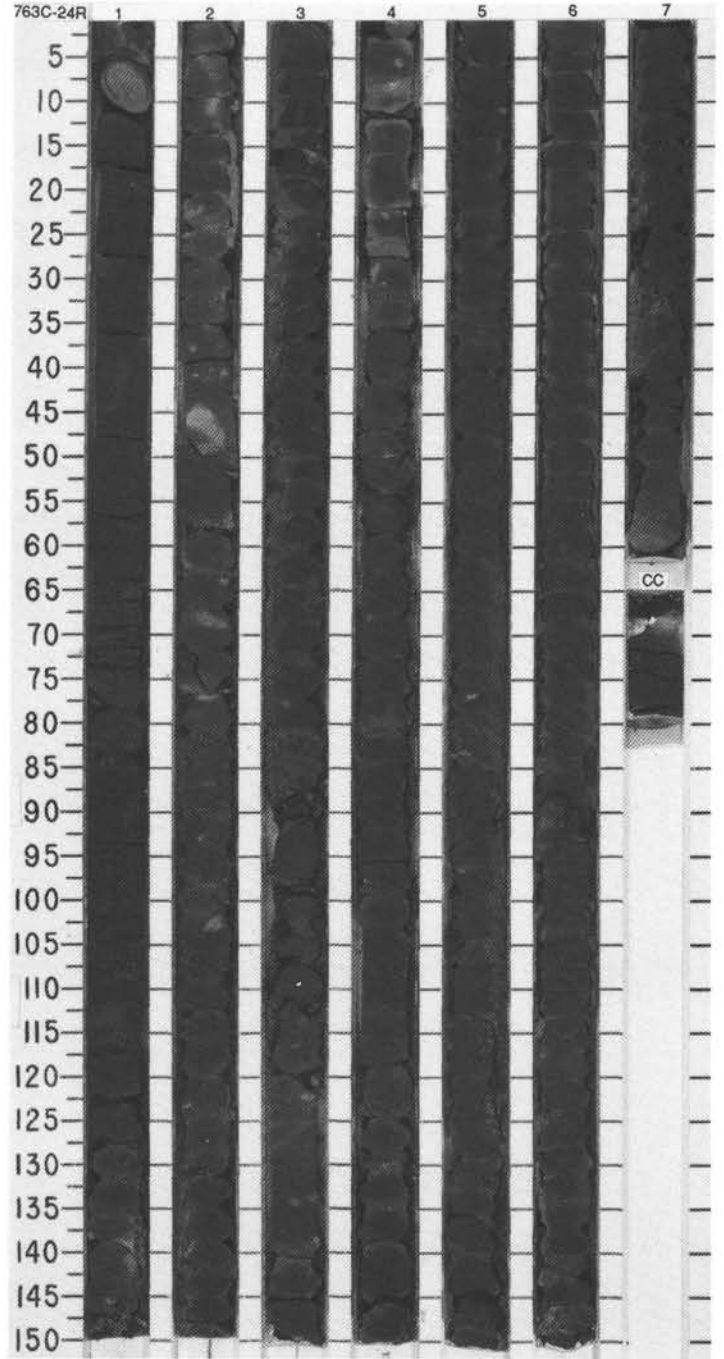
	1, 102	3, 65	5, 35	7, 18
	D	D	D	D

TEXTURE:

Sand	5	10	5	5
Silt	20	30	15	15
Clay	75	60	80	80

COMPOSITION:

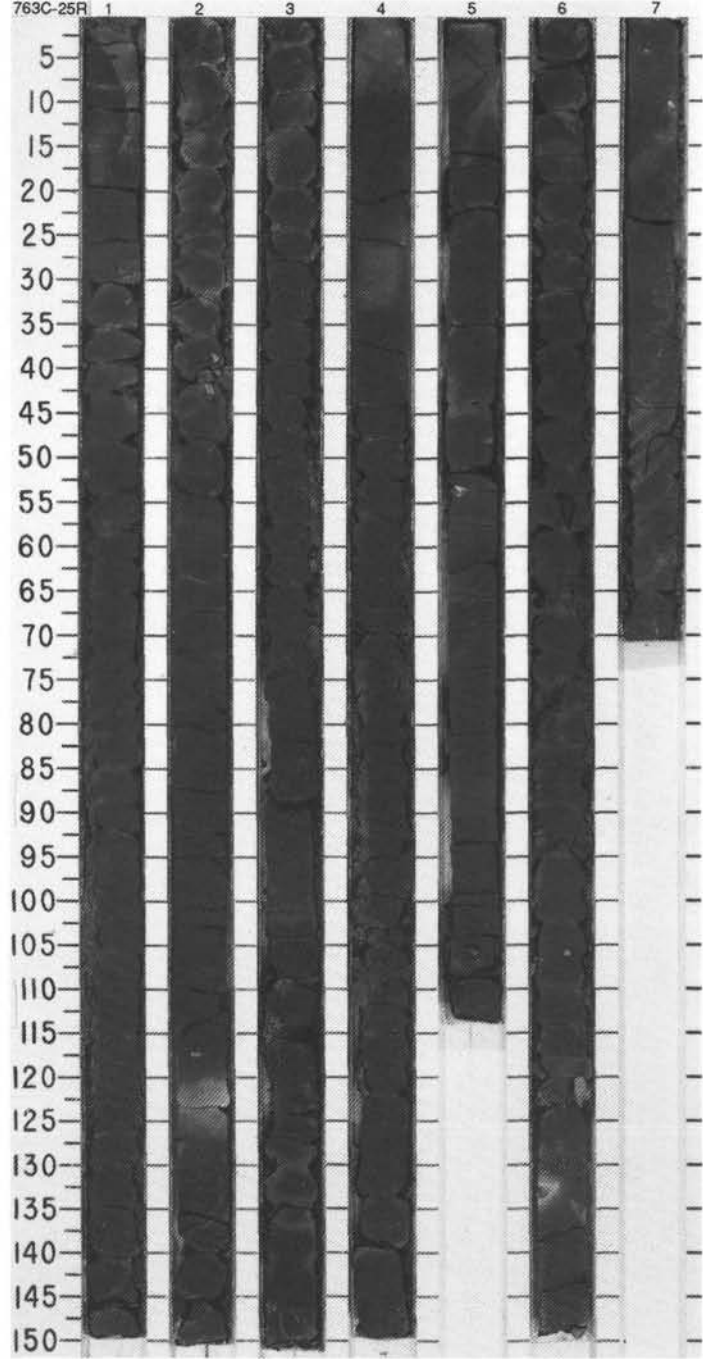
Accessory minerals	—	2	2	3
Clay	75	60	80	80
Feldspar	—	5	—	—
Glauconite	—	3	—	2
Mica	3	—	—	2
Pore space	2	—	—	—
Pyrite	5	5	3	—
Quartz	15	25	15	13

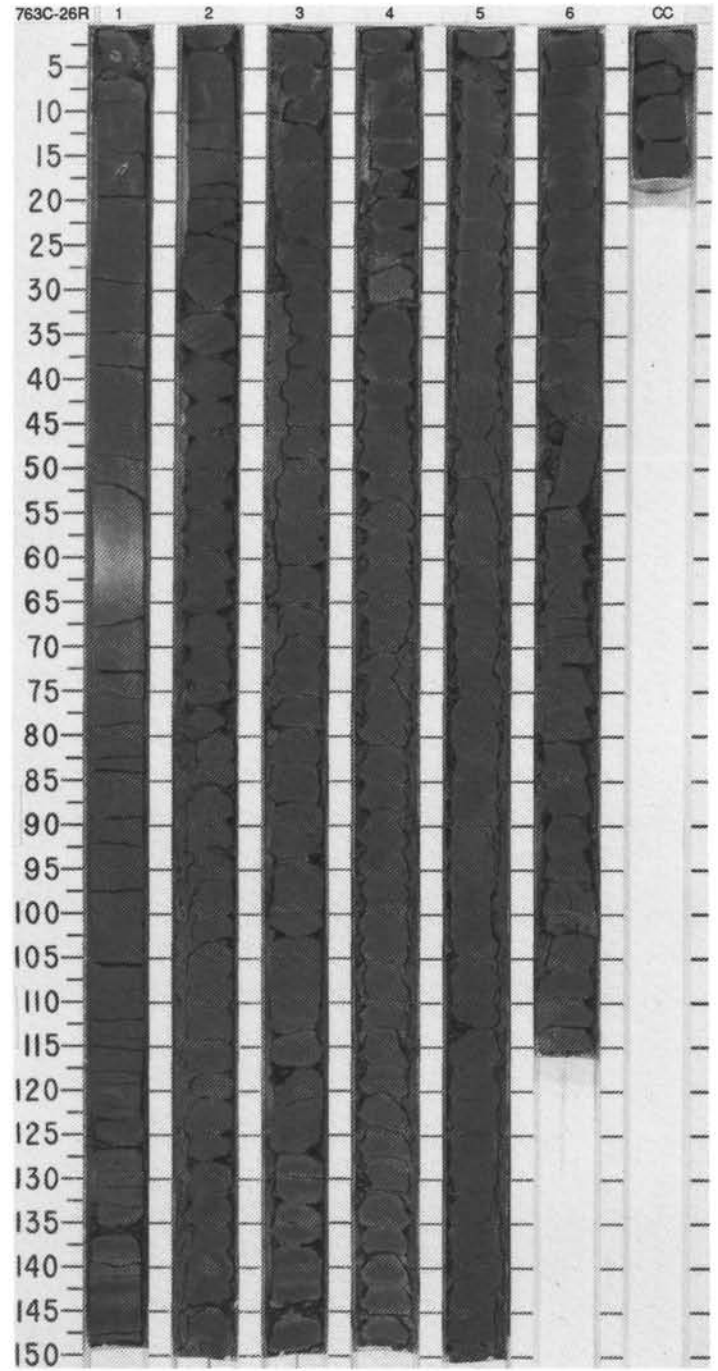
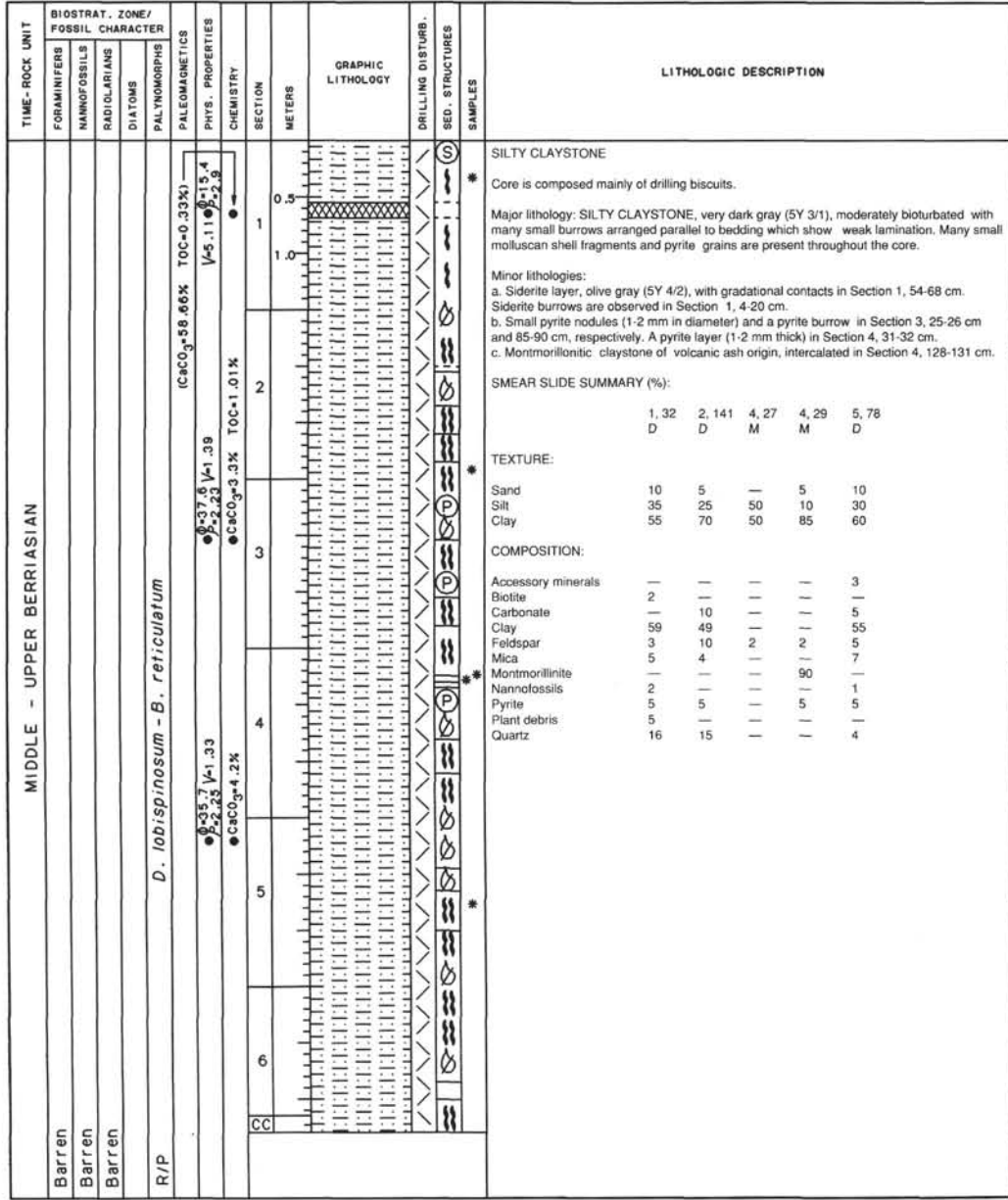


SITE 763

SITE 763 HOLE C CORE 25R CORED INTERVAL 827.6-837.1 mbsf

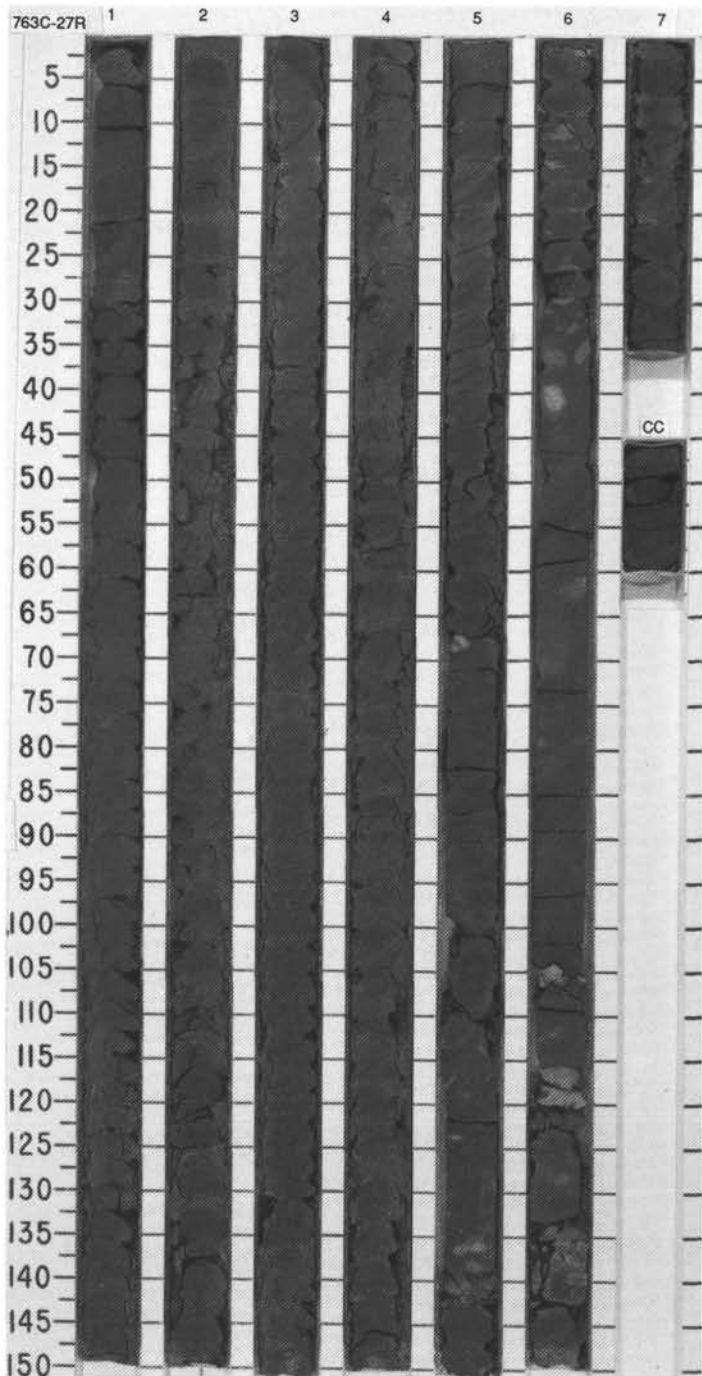
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANOFOSSILS	RADIOLARIANS	DIATOMS										
MIDDLE - UPPER BERRIASIAN	?													
R/M														
Barren														
Barren														
F/P	<i>D. lobispinosum - B. reticulatum</i>													
					●P-2.33 ✓1.84									
					●P-2.19 ✓1.86									
					●CaCO <sub>3</sub> 1.9% TOC 1.32%									
					●P-2.7 ✓2.77									



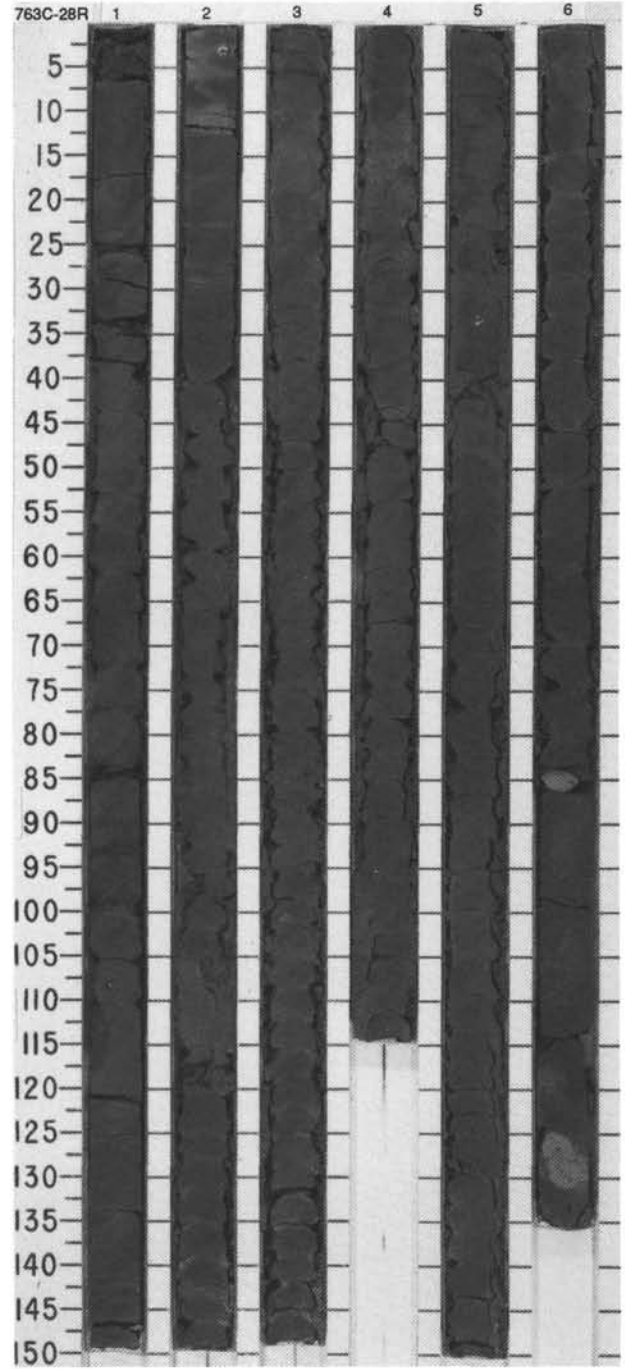


SITE 763 HOLE C CORE 27R CORED INTERVAL 846.6-856.1 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																	
	FORAMINIFERS	NAUPOSSIDS	RADIOLARIANS	DIATOMS	PALYNOMORPHS																																																																								
MIDDLE - UPPER BERRIASIAN	Barren	Barren	Barren									<p>SILTY CLAYSTONE AND CLAYSTONE WITH SILT</p> <p>Major lithologies: SILTY CLAYSTONE and CLAYSTONE with SILT, very dark gray (5Y 3/1), structureless or showing barely visible small horizontal burrows, which when compacted gives an appearance of horizontal lamination.</p> <p>Minor lithologies: a. Carbonate (siderite?) nodules, light olive gray (5Y 6/2), diffuse, in Sections 5 and 6, associated with bioturbation (large burrows and Chondrites). Sharp boundaries occur in two nodules at Section 5, 70 and 103 cm. b. Carbonate layer in Section 6, 104-106 cm. Its lower boundary with claystone is bioturbated and it is partly recrystallized to calcite.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 66</td> <td>3, 85</td> <td>5, 92</td> <td>5, 139</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>5</td> <td>5</td> <td>5</td> <td>--</td> </tr> <tr> <td>Silt</td> <td>10</td> <td>30</td> <td>15</td> <td>--</td> </tr> <tr> <td>Clay</td> <td>85</td> <td>65</td> <td>80</td> <td>--</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>--</td> <td>3</td> <td>--</td> <td>--</td> </tr> <tr> <td>Clay</td> <td>85</td> <td>65</td> <td>76</td> <td>--</td> </tr> <tr> <td>Feldspar</td> <td>--</td> <td>5</td> <td>5</td> <td>--</td> </tr> <tr> <td>Glaucconite</td> <td>--</td> <td>2</td> <td>3</td> <td>--</td> </tr> <tr> <td>Mica</td> <td>3</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>Pyrite</td> <td>2</td> <td>--</td> <td>2</td> <td>--</td> </tr> <tr> <td>Quartz</td> <td>10</td> <td>25</td> <td>14</td> <td>3</td> </tr> <tr> <td>Siderite</td> <td>--</td> <td>--</td> <td>--</td> <td>97</td> </tr> </table>		1, 66	3, 85	5, 92	5, 139		D	D	D	M	Sand	5	5	5	--	Silt	10	30	15	--	Clay	85	65	80	--	Accessory minerals	--	3	--	--	Clay	85	65	76	--	Feldspar	--	5	5	--	Glaucconite	--	2	3	--	Mica	3	--	--	--	Pyrite	2	--	2	--	Quartz	10	25	14	3	Siderite	--	--	--	97
	1, 66	3, 85	5, 92	5, 139																																																																									
	D	D	D	M																																																																									
Sand	5	5	5	--																																																																									
Silt	10	30	15	--																																																																									
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Feldspar	--	5	5	--																																																																									
Glaucconite	--	2	3	--																																																																									
Mica	3	--	--	--																																																																									
Pyrite	2	--	2	--																																																																									
Quartz	10	25	14	3																																																																									
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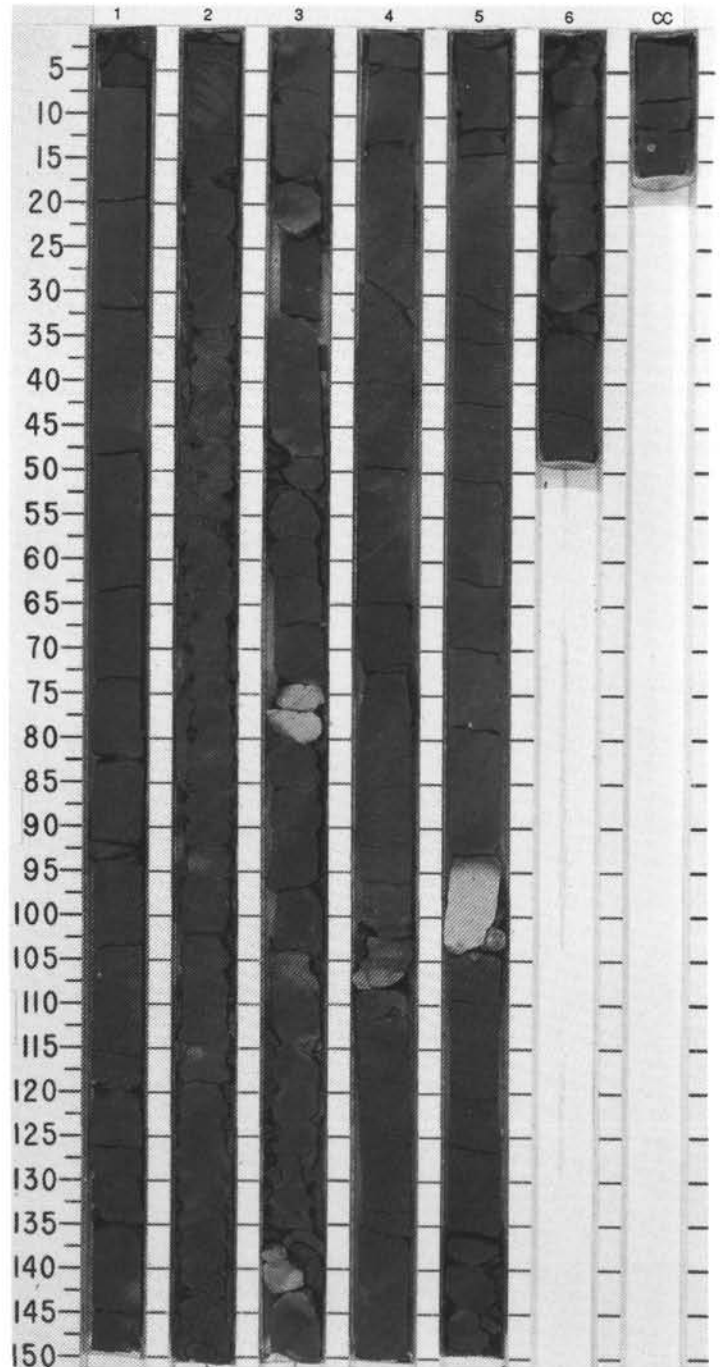


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																						
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										PALEOMAGNETICS																																																																					
MIDDLE - UPPER BERRIASIAN	Barren												<p>CLAYSTONE WITH SILT AND CLAYSTONE WITH SILT AND SAND</p> <p>Major lithologies: CLAYSTONE with SILT and CLAYSTONE with SILT AND SAND, very dark gray (5Y 3/1). Minor pyrite grains and small broken shells scattered throughout. Pyrite nodules, Section 1, 70 and 75 cm. Belemnites, Section 2, 3 cm; Section 3, 85 and 100-101 cm; Section 5, 33 cm. Minor bioturbation, but may be masked by dark structureless nature of rocks. Fine laminations observed in Section 6, 100-125 cm.</p> <p>Minor lithology: Carbonate (siderite?) nodules, light gray 5Y 7/1), Section 6, 85-87 cm and 126-130 cm. Highly bioturbated. Gradational boundary and internally zoned.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 18</td> <td>3, 77</td> <td>5, 61</td> <td>6, 120</td> </tr> <tr> <td></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>5</td> <td>5</td> <td>10</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>15</td> <td>20</td> <td>10</td> <td>10</td> </tr> <tr> <td>Clay</td> <td>80</td> <td>75</td> <td>80</td> <td>85</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>2</td> <td>—</td> <td>—</td> <td>1</td> </tr> <tr> <td>Clay</td> <td>80</td> <td>75</td> <td>78</td> <td>80</td> </tr> <tr> <td>Feldspar</td> <td>3</td> <td>5</td> <td>3</td> <td>—</td> </tr> <tr> <td>Glauconite</td> <td>—</td> <td>2</td> <td>2</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>—</td> <td>—</td> <td>—</td> <td>3</td> </tr> <tr> <td>Plant</td> <td>—</td> <td>—</td> <td>—</td> <td>2</td> </tr> <tr> <td>Pyrite</td> <td>5</td> <td>3</td> <td>5</td> <td>3</td> </tr> <tr> <td>Quartz</td> <td>10</td> <td>15</td> <td>12</td> <td>10</td> </tr> <tr> <td>Hypersthene</td> <td>—</td> <td>—</td> <td>—</td> <td>1</td> </tr> </table>		1, 18	3, 77	5, 61	6, 120		D	D	D	D	Sand	5	5	10	5	Silt	15	20	10	10	Clay	80	75	80	85	Accessory minerals	2	—	—	1	Clay	80	75	78	80	Feldspar	3	5	3	—	Glauconite	—	2	2	—	Mica	—	—	—	3	Plant	—	—	—	2	Pyrite	5	3	5	3	Quartz	10	15	12	10	Hypersthene	—	—	—	1
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Sand	5	5	10	5																																																																															
Silt	15	20	10	10																																																																															
Clay	80	75	80	85																																																																															
Accessory minerals	2	—	—	1																																																																															
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Feldspar	3	5	3	—																																																																															
Glauconite	—	2	2	—																																																																															
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Plant	—	—	—	2																																																																															
Pyrite	5	3	5	3																																																																															
Quartz	10	15	12	10																																																																															
Hypersthene	—	—	—	1																																																																															
	Barren				● 34.3 V=1.34 ● 52.25 V=1.34	● CaCO <sub>3</sub> 9.6% TOC=1.11%	1																																																																												
	Barren				● 33.8 ● 52.26	● CaCO <sub>3</sub> 2.3% TOC=1.00%	2																																																																												
	Barren						3																																																																												
	C/P				<i>D. lobispinosum - B. reticulatum</i>		4																																																																												
					● 35.9 V=1.85 ● 52.3	● CaCO <sub>3</sub> 3.4% TOC=0.98%	5																																																																												
							6																																																																												

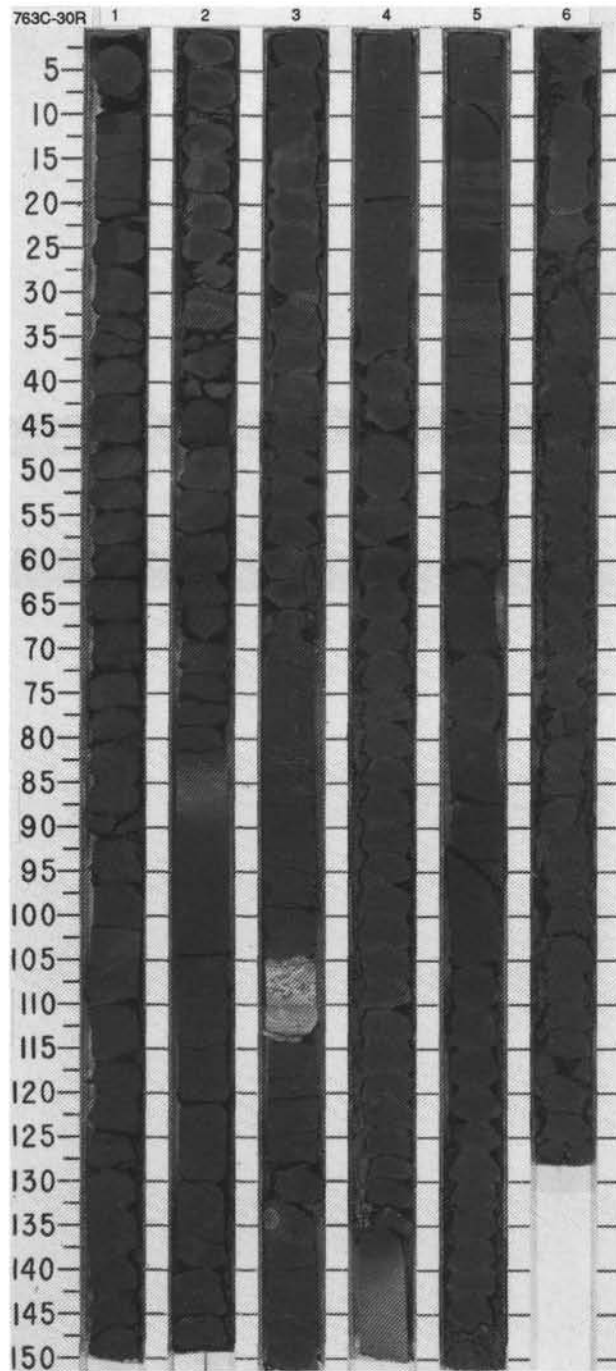




TIME - ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NAKNOFOSSILS	RADICULARIANS	DIATOMS										
MIDDLE - UPPER BERRIASIAN	?	?												
R/G														
R/P														
Barren														
C/P														
		<i>D. lobispinosum - B. reticulatum</i>												



TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
MIDDLE BERRIASIAN	?												
R/G													
Barren													
Barren													
F/P	<i>D. lobispinosum - B. reticulatum</i>												
					● 37.2 7-2.23	● 37.2 7-2.23	● 37.2 7-2.23	● 37.2 7-2.23	● 37.2 7-2.23	● 37.2 7-2.23	● 37.2 7-2.23	● 37.2 7-2.23	● 37.2 7-2.23
					● 38.7 7-2.23	● 38.7 7-2.23	● 38.7 7-2.23	● 38.7 7-2.23	● 38.7 7-2.23	● 38.7 7-2.23	● 38.7 7-2.23	● 38.7 7-2.23	● 38.7 7-2.23
					● 34.8 7-2.24	● 34.8 7-2.24	● 34.8 7-2.24	● 34.8 7-2.24	● 34.8 7-2.24	● 34.8 7-2.24	● 34.8 7-2.24	● 34.8 7-2.24	● 34.8 7-2.24
					● 35.7 7-2.23	● 35.7 7-2.23	● 35.7 7-2.23	● 35.7 7-2.23	● 35.7 7-2.23	● 35.7 7-2.23	● 35.7 7-2.23	● 35.7 7-2.23	● 35.7 7-2.23
					● 34.8 7-2.24	● 34.8 7-2.24	● 34.8 7-2.24	● 34.8 7-2.24	● 34.8 7-2.24	● 34.8 7-2.24	● 34.8 7-2.24	● 34.8 7-2.24	● 34.8 7-2.24



SILT CLAYSTONE WITH SAND AND SILTY CLAYSTONE

Major lithologies:  
SILTY CLAYSTONE with SAND and SILTY CLAYSTONE, very dark gray (5Y 3/1) to black (5Y 2.5/1). Pyrite grains and sparse broken shells (mollusc) throughout. Biogenic sedimentary structures minor to absent, partly masked by color and uniform texture of rock. Some silty laminations. Section 2, 142-148 cm.

Minor lithologies:  
a. Calcareous sideritic concretions and zones, light gray (5Y 7/2) to dark gray (5Y 4/1), in Section 2, 82-88 cm; Section 4, 134-150 cm; and Section 6, 15-25 cm. Moderately to highly bioturbated.  
b. Pelagic limestone, light gray (5Y 7/1), in Section 3, 95-105 cm. Highly bioturbated, Teichichnus, Zoophycos, clay intraclasts, and pyritized burrows.

SMEAR SLIDE AND THIN SECTION SUMMARY (%):

	1, 70	2, 86	3, 83	3, 103	4, 54	6, 99
D	70	86	83	103	54	99
M						

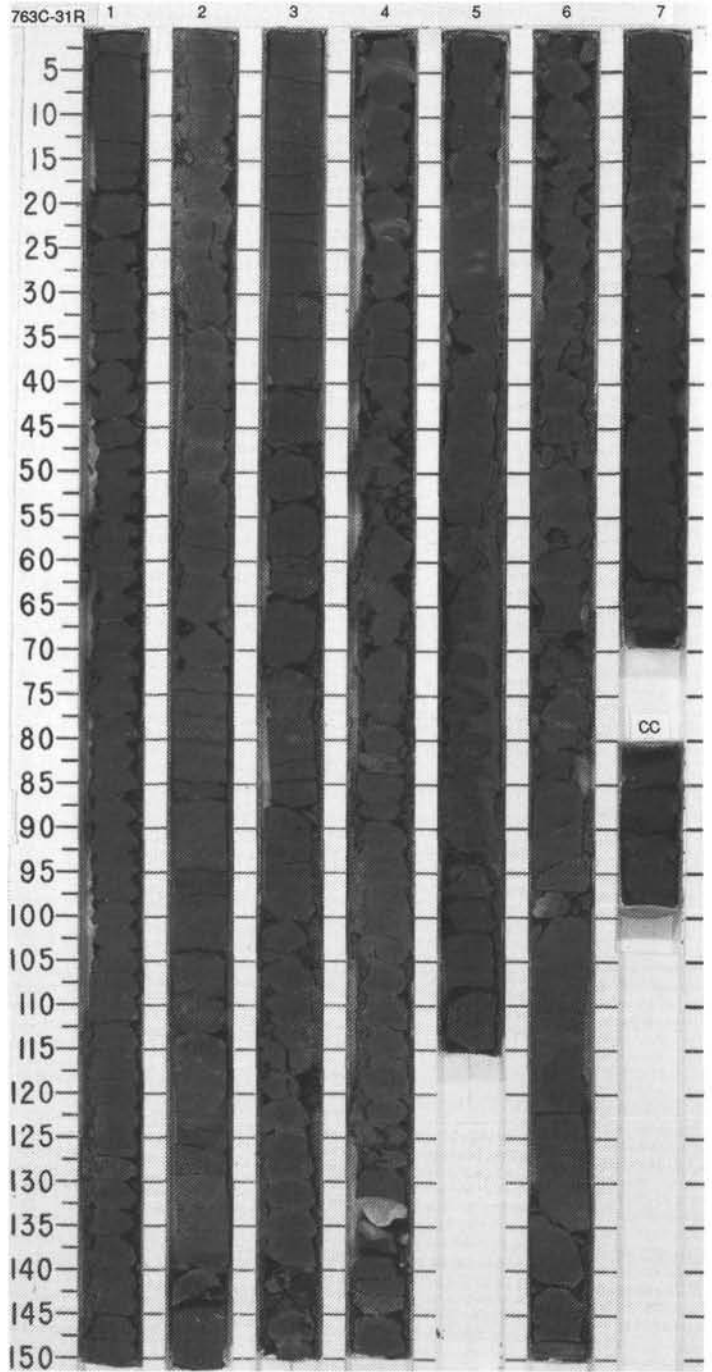
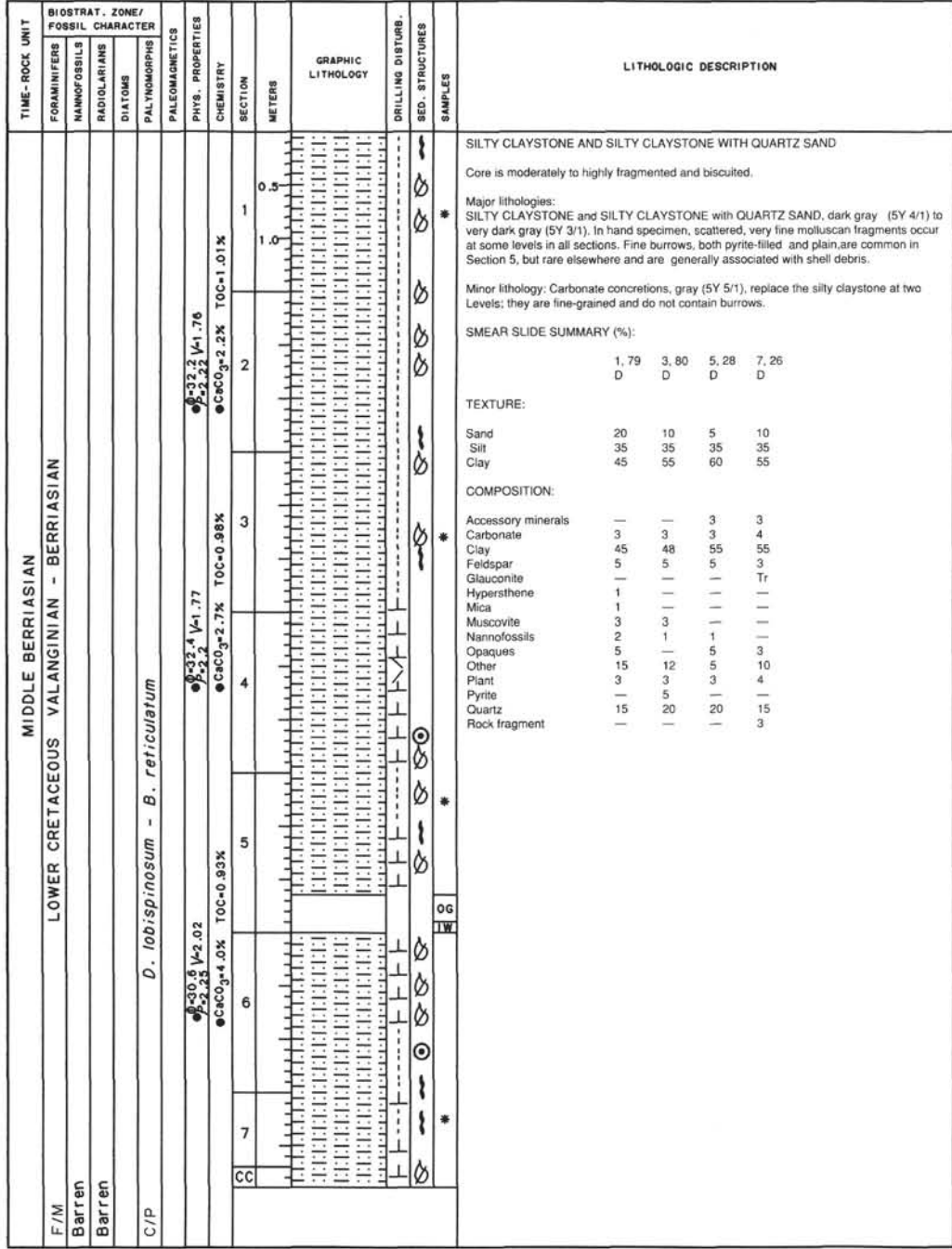
TEXTURE:

	20	27	53	9	35	56	13	32	55	8	30	62
Sand	20	27	53	9	35	56	13	32	55	8	30	62
Silt												
Clay												

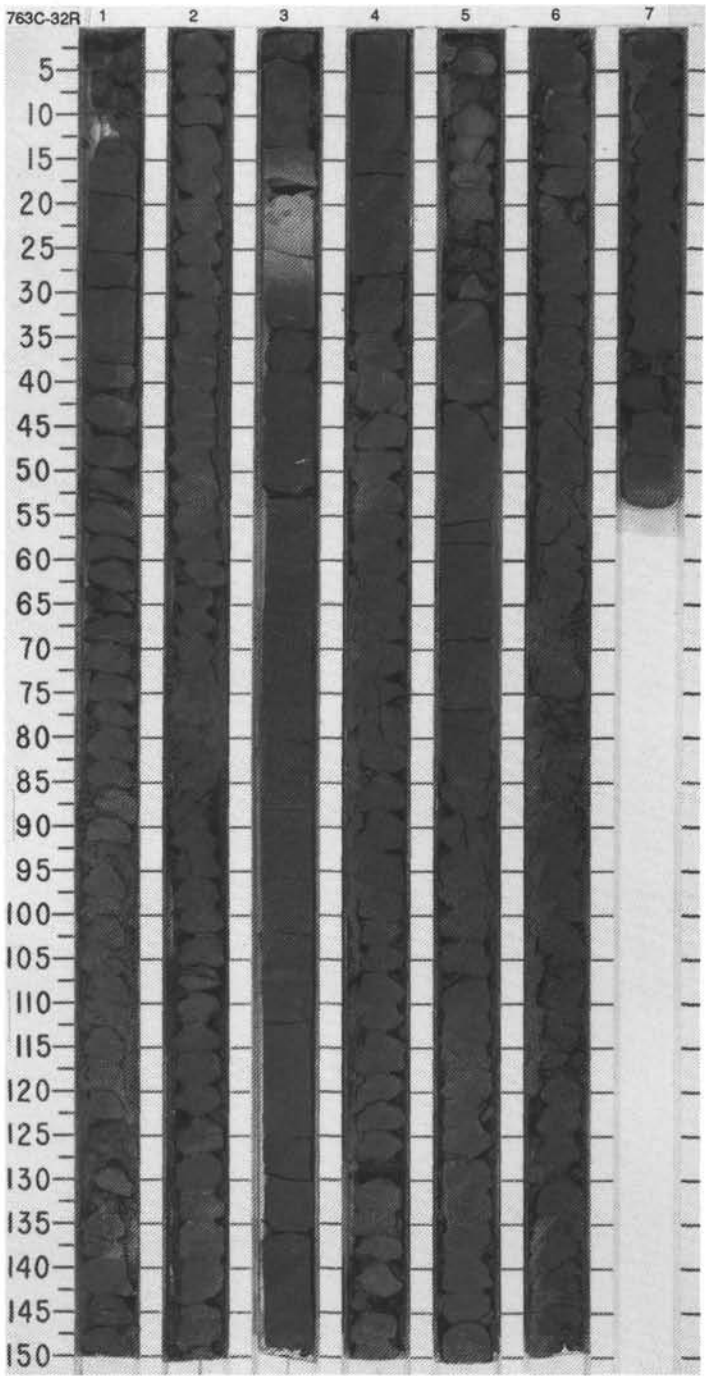
COMPOSITION:

	14	7	49	4	1	Tr	4	3	5	12	Tr	1	Tr	Tr
Accessory minerals	14	7	49	4	1	Tr	4	3	5	12	Tr	1	Tr	Tr
Altered grains														
Calcite/Dolomite														
Carbonate grains														
Carbonate														
Clay														
Feldspar														
Fish														
Glauconite														
Mica														
Nannofossils														
Opalines														
Plant														
Pyrite														
Quartz														
Rock fragment														
Siderite														
Tourmaline														
Zeolite														
Zircon														

SITE 763 HOLE C CORE 31R CORED INTERVAL 884.6-894.1 mbsf

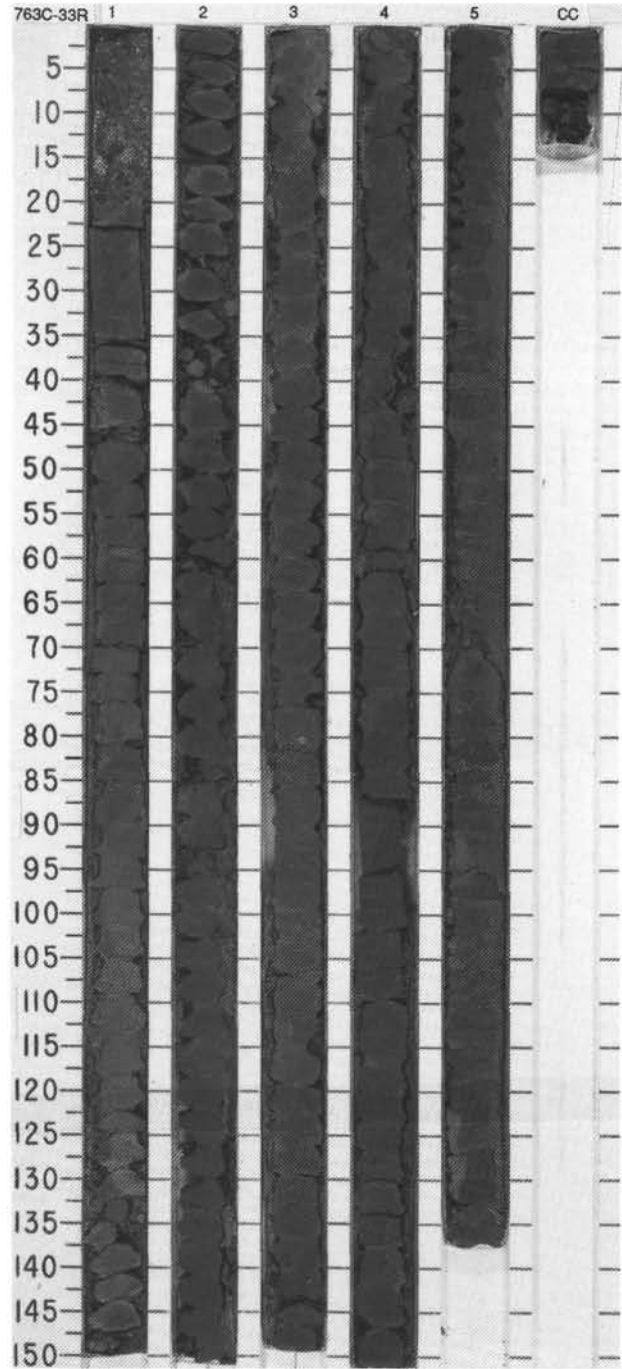


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	MAMMOFOSILS	RADIOLARIANS	DIATOMS	PALYNOMORPHS							
MIDDLE BERRIASIAN ?												
F/M	Barren											
F/P	<i>D. lobispinosum</i> - <i>B. reticulatum</i>											
						0-31.9 5.2-23.3	1-1.84					
						0-32.7 5.2-22.5	1-1.89					
							8.0%	TOC=1.05%				
								8.0%	TOC=1.05%			
								8.0%	TOC=1.05%			
								8.0%	TOC=1.05%			
								8.0%	TOC=1.05%			
								8.0%	TOC=1.05%			
								8.0%	TOC=1.05%			
								8.0%	TOC=1.05%			
								8.0%	TOC=1.05%			
								8.0%	TOC=1.05%			



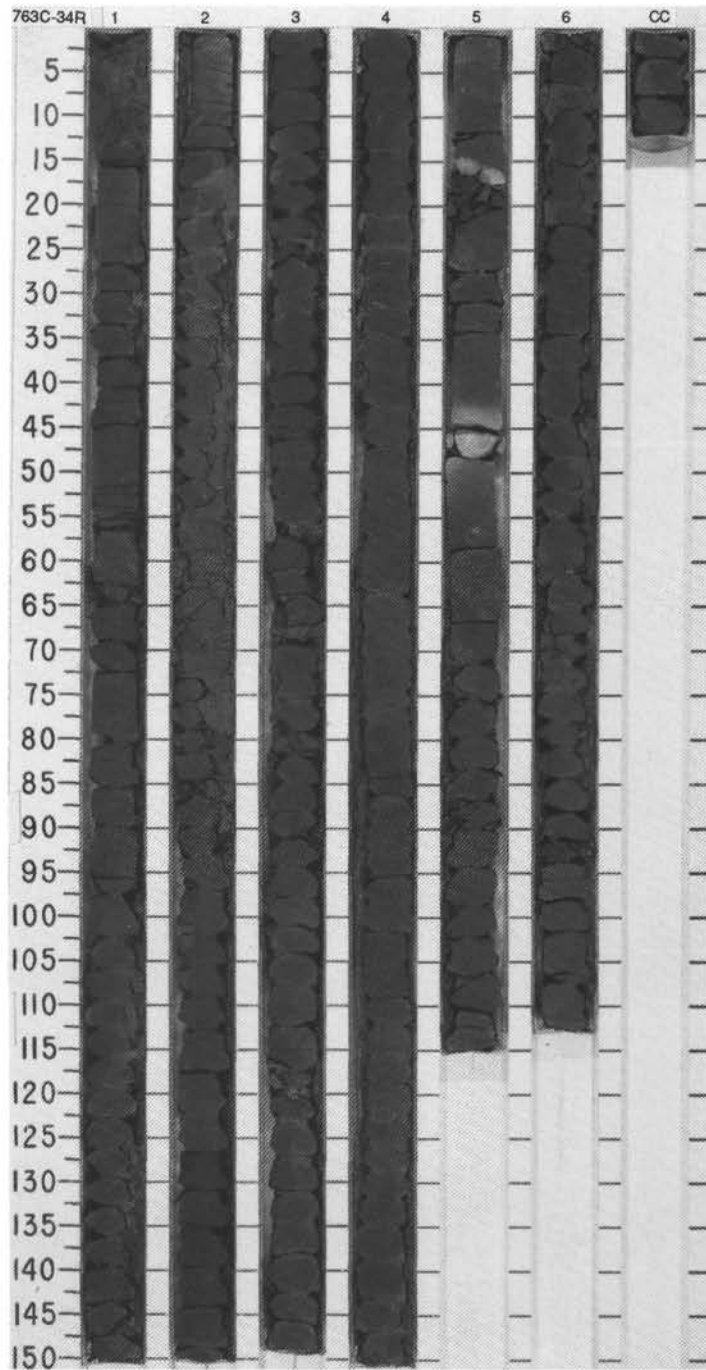
SITE 763 HOLE C CORE 33R CORED INTERVAL 903.6-913.1 mbsf

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																																																																																																																																			
MIDDLE BERRIASIAN ?					@-33.5 V=1.89 P=2.30 @C#CO <sub>2</sub> =4.2% TOC=0.96%				<p>SILTY CLAYSTONE</p> <p>Core is highly biscuited.</p> <p>Major lithology: SILTY CLAYSTONE, very dark gray (5Y 3/1), structureless, locally bioturbated. Sediments are probably extensively bioturbated throughout the core, but it is barely evident except for pyritized zones. Lamination derives largely from compaction of horizontally bioturbated sediment. Fine-grained pyrite enrichments are present in burrow fillings in Sections 3 and 4. Fine-grained pyrite and siderite occur in the sediment in amounts of 2-7% and 2-10%, respectively. Plant material is commonly present in amounts of 7-10%. Scattered thin-shelled mollusc fragments occur in Sections 1, 2, and 4.</p> <p>Minor lithology: Sideritic or siderite-rich burrow fillings, light olive gray (5Y 6/2), are present in Section 3, 2 and 80 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 49</td> <td>2, 49</td> <td>3, 49</td> <td>4, 49</td> <td>5, 49</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>Silt</td> <td>37</td> <td>36</td> <td>52</td> <td>46</td> <td>27</td> </tr> <tr> <td>Clay</td> <td>63</td> <td>64</td> <td>48</td> <td>54</td> <td>73</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Bioclast</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Biotite</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>63</td> <td>64</td> <td>48</td> <td>51</td> <td>73</td> </tr> <tr> <td>Feldspar</td> <td>—</td> <td>Tr</td> <td>2</td> <td>2</td> <td>—</td> </tr> <tr> <td>Fish</td> <td>—</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Glauconite</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Heavy minerals</td> <td>—</td> <td>—</td> <td>Tr</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>2</td> <td>Tr</td> <td>4</td> <td>Tr</td> <td>2</td> </tr> <tr> <td>Nannofossils</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Opaques</td> <td>1</td> <td>2</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Plant</td> <td>7</td> <td>10</td> <td>7</td> <td>7</td> <td>3</td> </tr> <tr> <td>Pyrite</td> <td>5</td> <td>5</td> <td>2</td> <td>10</td> <td>2</td> </tr> <tr> <td>Quartz</td> <td>20</td> <td>16</td> <td>30</td> <td>30</td> <td>15</td> </tr> <tr> <td>Siderite</td> <td>2</td> <td>3</td> <td>7</td> <td>—</td> <td>5</td> </tr> <tr> <td>Zeolite</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> </table>		1, 49	2, 49	3, 49	4, 49	5, 49	D	D	D	D	D	D	Silt	37	36	52	46	27	Clay	63	64	48	54	73	Accessory minerals	—	Tr	—	—	—	Bioclast	—	—	—	—	—	Biotite	Tr	Tr	Tr	—	Tr	Clay	63	64	48	51	73	Feldspar	—	Tr	2	2	—	Fish	—	Tr	Tr	Tr	—	Foraminifers	—	—	—	—	—	Glauconite	Tr	Tr	Tr	Tr	Tr	Heavy minerals	—	—	Tr	Tr	—	Mica	2	Tr	4	Tr	2	Nannofossils	—	—	—	—	—	Opaques	1	2	—	—	—	Plant	7	10	7	7	3	Pyrite	5	5	2	10	2	Quartz	20	16	30	30	15	Siderite	2	3	7	—	5	Zeolite	—	—	—	—	—
	1, 49	2, 49	3, 49	4, 49	5, 49																																																																																																																																		
D	D	D	D	D	D																																																																																																																																		
Silt	37	36	52	46	27																																																																																																																																		
Clay	63	64	48	54	73																																																																																																																																		
Accessory minerals	—	Tr	—	—	—																																																																																																																																		
Bioclast	—	—	—	—	—																																																																																																																																		
Biotite	Tr	Tr	Tr	—	Tr																																																																																																																																		
Clay	63	64	48	51	73																																																																																																																																		
Feldspar	—	Tr	2	2	—																																																																																																																																		
Fish	—	Tr	Tr	Tr	—																																																																																																																																		
Foraminifers	—	—	—	—	—																																																																																																																																		
Glauconite	Tr	Tr	Tr	Tr	Tr																																																																																																																																		
Heavy minerals	—	—	Tr	Tr	—																																																																																																																																		
Mica	2	Tr	4	Tr	2																																																																																																																																		
Nannofossils	—	—	—	—	—																																																																																																																																		
Opaques	1	2	—	—	—																																																																																																																																		
Plant	7	10	7	7	3																																																																																																																																		
Pyrite	5	5	2	10	2																																																																																																																																		
Quartz	20	16	30	30	15																																																																																																																																		
Siderite	2	3	7	—	5																																																																																																																																		
Zeolite	—	—	—	—	—																																																																																																																																		
R/M					@-35.7 V=1.77 P=2.23 @C#CO <sub>2</sub> =2.5% TOC=1.48%																																																																																																																																		
Barren																																																																																																																																							
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R/P					D. lobispinosum - B. reticulatum																																																																																																																																		

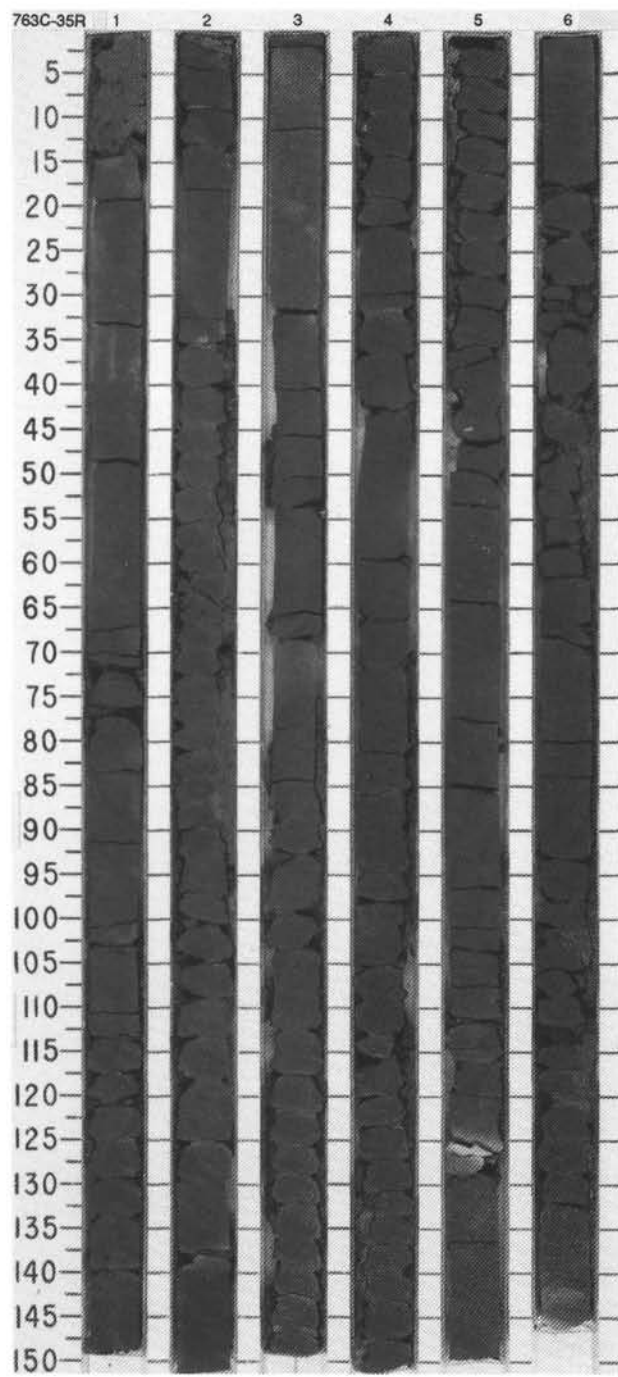
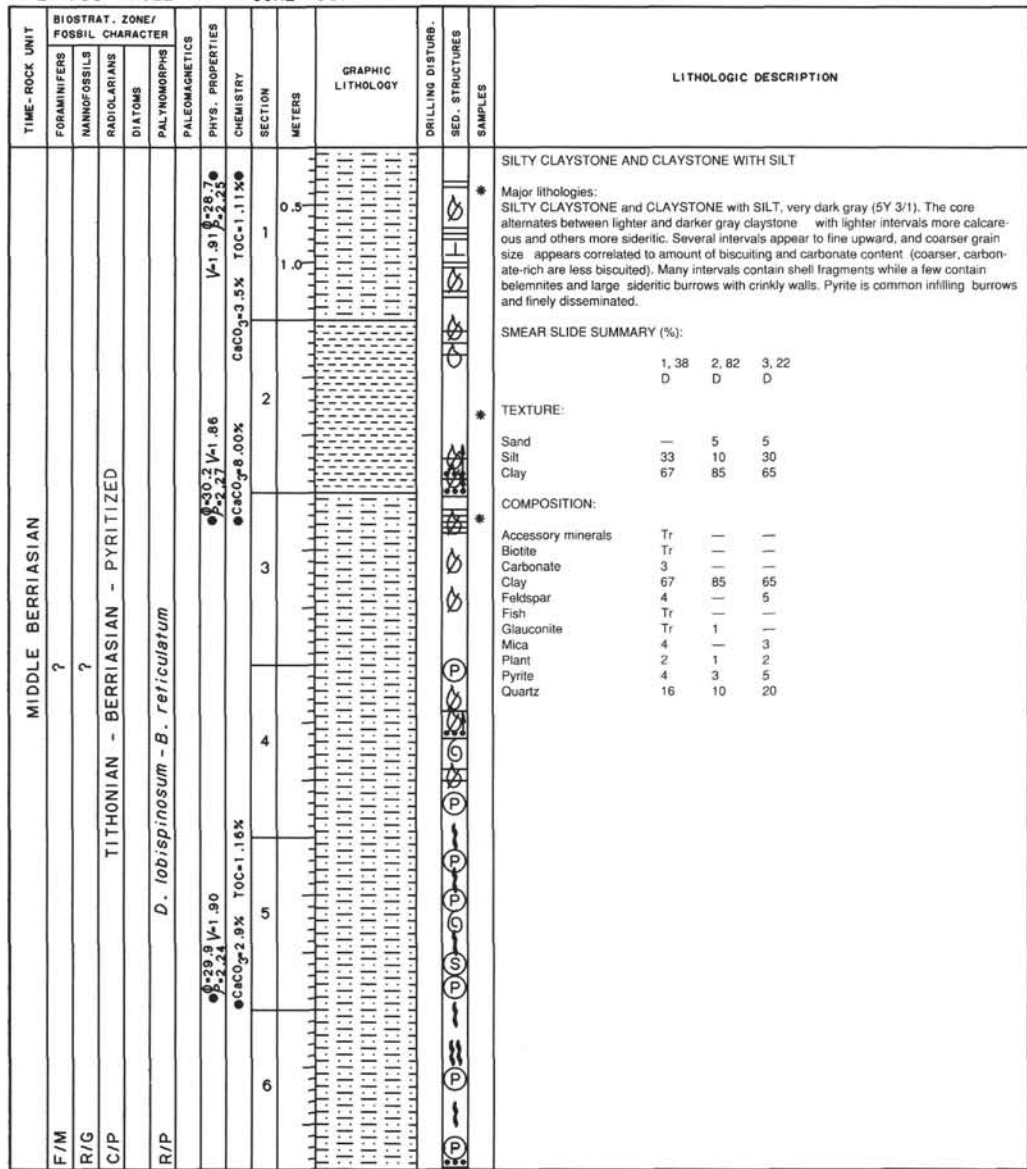




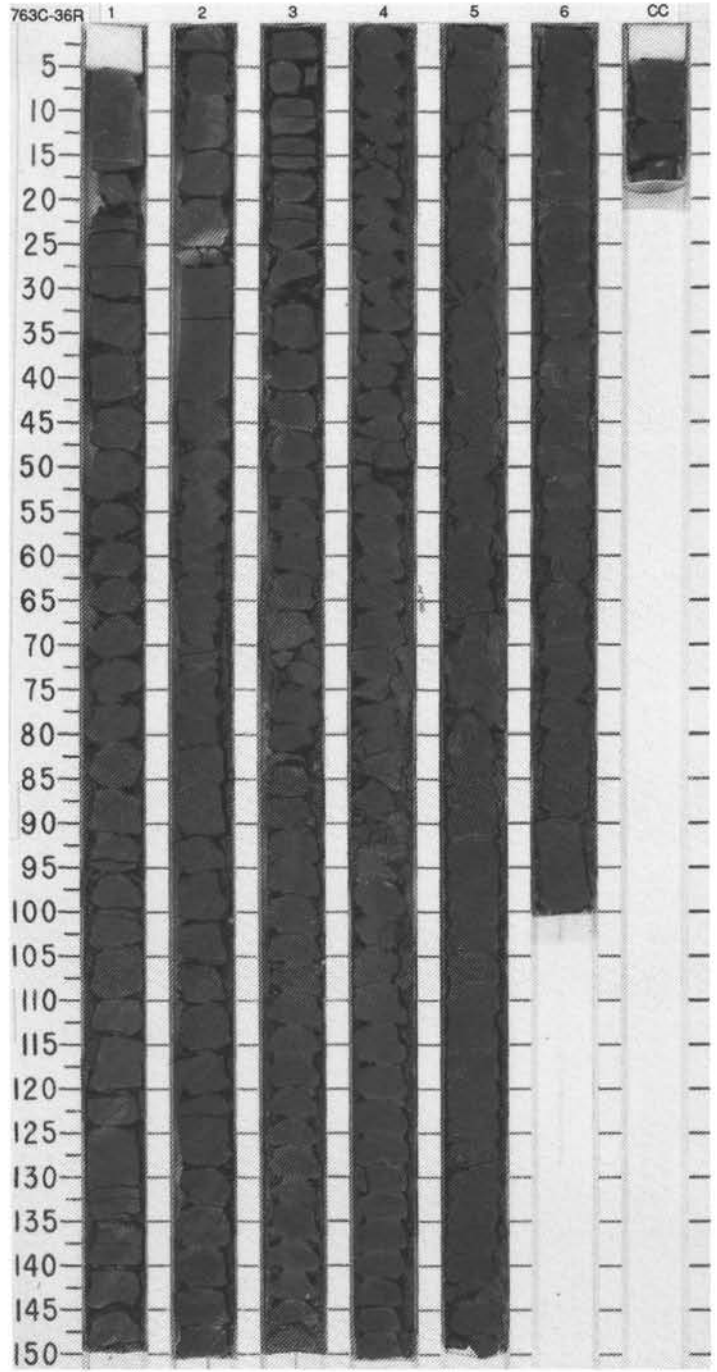
TIME-ROCK UNIT	BIOSTRAT. ZONE/FOSSIL CHARACTER				PHYS. PROPERTIES	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																																								
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									PALEOMAGNETICS																																																																																																																							
MIDDLE BERRIASIAN	?	?										<p>SILTY CLAYSTONE</p> <p>The core is extensively biscuited.</p> <p>Major lithology: SILTY CLAYSTONE, very dark gray (SY 3/1), dominantly structureless, locally bioturbated and laminated. Sediments are probably extensively bioturbated throughout the core, but bioturbation is barely evident because of the lack of color contrasts. Lamination derives largely from compaction of horizontally burrowed sediment. Fine-grained pyrite and siderite occur in the sediment, in amounts of 5-10% and 1-5% respectively. Plant debris is present in amounts of 3-4%. Scattered thin-shelled mollusc fragments occurs throughout, and, in particular, in Section 1, 142 cm, and Section 6, 97 cm. A Dentalium shell (mollusc) is present in Section 4, 97 cm. A belemnite rostrum is present in Section 5, 56 cm.</p> <p>Minor lithologies: Siderite, light olive gray (SY 6/2), intensely bioturbated, in Section 5, 40-50 cm. The boundaries with the surrounding claystone are gradational. Sideritic nodules and burrow fillings, in Section 3, 120 cm; Section 4, 25-35 cm; Section 5, 15 cm; and Section 6, 60 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 51</td> <td>3, 51</td> <td>3, 145</td> <td>5, 51</td> <td>6, 29</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> <td>M</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>5</td> <td>5</td> <td>5</td> <td>10</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>40</td> <td>38</td> <td>68</td> <td>70</td> <td>25</td> </tr> <tr> <td>Clay</td> <td>55</td> <td>57</td> <td>27</td> <td>20</td> <td>70</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Altered grains</td> <td>—</td> <td>5</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Bioclast</td> <td>—</td> <td>—</td> <td>1</td> <td>—</td> <td>—</td> </tr> <tr> <td>Biotite</td> <td>—</td> <td>1</td> <td>—</td> <td>—</td> <td>1</td> </tr> <tr> <td>Carbonate</td> <td>1</td> <td>2</td> <td>2</td> <td>22</td> <td>5</td> </tr> <tr> <td>Clay</td> <td>54</td> <td>55</td> <td>35</td> <td>20</td> <td>67</td> </tr> <tr> <td>Fe oxide</td> <td>—</td> <td>2</td> <td>1</td> <td>—</td> <td>—</td> </tr> <tr> <td>Feldspar</td> <td>10</td> <td>10</td> <td>20</td> <td>25</td> <td>5</td> </tr> <tr> <td>Glaucanite</td> <td>2</td> <td>1</td> <td>2</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Kyanite</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>5</td> <td>4</td> <td>5</td> <td>—</td> <td>3</td> </tr> <tr> <td>Nannofossils</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Plant Pyrite</td> <td>7</td> <td>7</td> <td>5</td> <td>10</td> <td>5</td> </tr> <tr> <td>Quartz</td> <td>15</td> <td>10</td> <td>20</td> <td>20</td> <td>10</td> </tr> <tr> <td>Rock Fragment</td> <td>3</td> <td>—</td> <td>5</td> <td>—</td> <td>—</td> </tr> <tr> <td>Zircon</td> <td>Tr</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> </tr> </table>		1, 51	3, 51	3, 145	5, 51	6, 29		D	D	D	M	D	Sand	5	5	5	10	5	Silt	40	38	68	70	25	Clay	55	57	27	20	70	Altered grains	—	5	—	—	—	Bioclast	—	—	1	—	—	Biotite	—	1	—	—	1	Carbonate	1	2	2	22	5	Clay	54	55	35	20	67	Fe oxide	—	2	1	—	—	Feldspar	10	10	20	25	5	Glaucanite	2	1	2	Tr	Tr	Kyanite	Tr	—	—	—	—	Mica	5	4	5	—	3	Nannofossils	—	—	—	—	Tr	Plant Pyrite	7	7	5	10	5	Quartz	15	10	20	20	10	Rock Fragment	3	—	5	—	—	Zircon	Tr	—	—	Tr	—
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Altered grains	—	5	—	—	—																																																																																																																															
Bioclast	—	—	1	—	—																																																																																																																															
Biotite	—	1	—	—	1																																																																																																																															
Carbonate	1	2	2	22	5																																																																																																																															
Clay	54	55	35	20	67																																																																																																																															
Fe oxide	—	2	1	—	—																																																																																																																															
Feldspar	10	10	20	25	5																																																																																																																															
Glaucanite	2	1	2	Tr	Tr																																																																																																																															
Kyanite	Tr	—	—	—	—																																																																																																																															
Mica	5	4	5	—	3																																																																																																																															
Nannofossils	—	—	—	—	Tr																																																																																																																															
Plant Pyrite	7	7	5	10	5																																																																																																																															
Quartz	15	10	20	20	10																																																																																																																															
Rock Fragment	3	—	5	—	—																																																																																																																															
Zircon	Tr	—	—	Tr	—																																																																																																																															
A/G					$\phi = 31.6$ V-1.57 $\rho = 2.25$																																																																																																																															
R/P					$\phi = 30.2$ V-1.62 $\rho = 2.33$																																																																																																																															
Barren																																																																																																																																				
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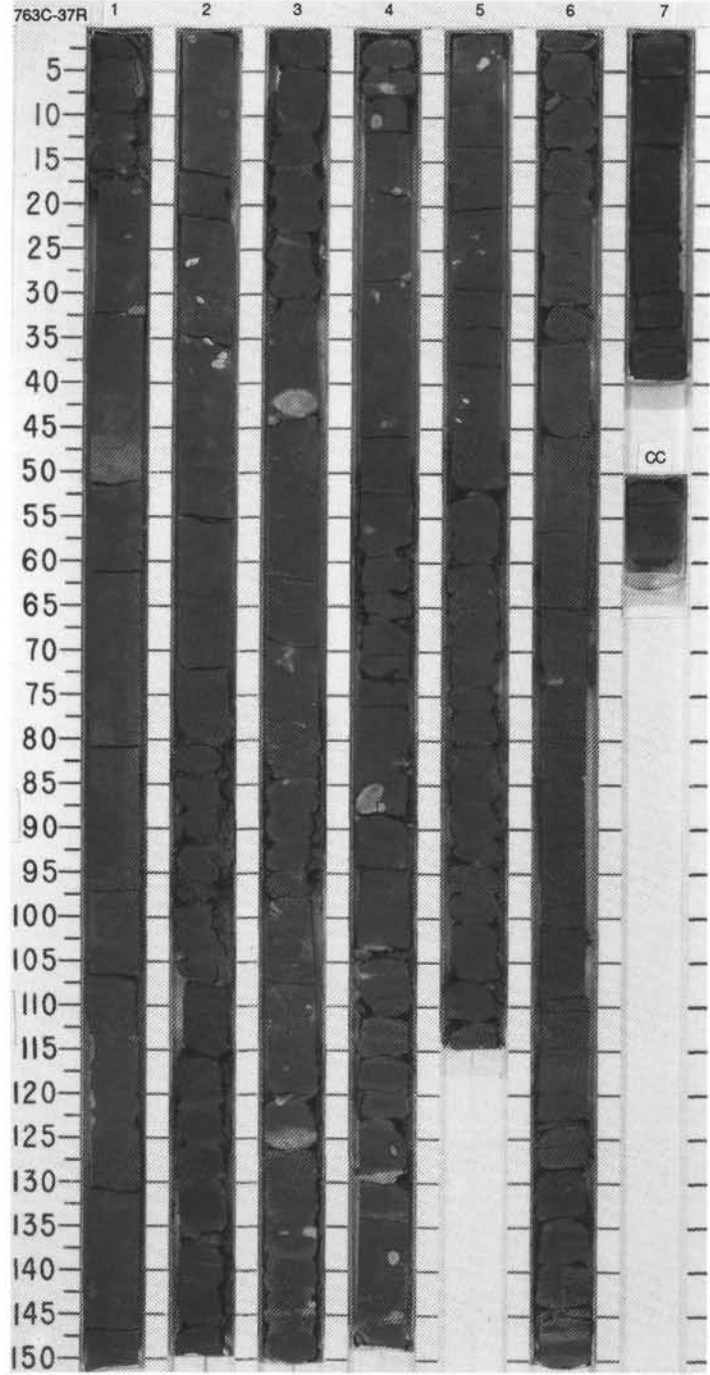
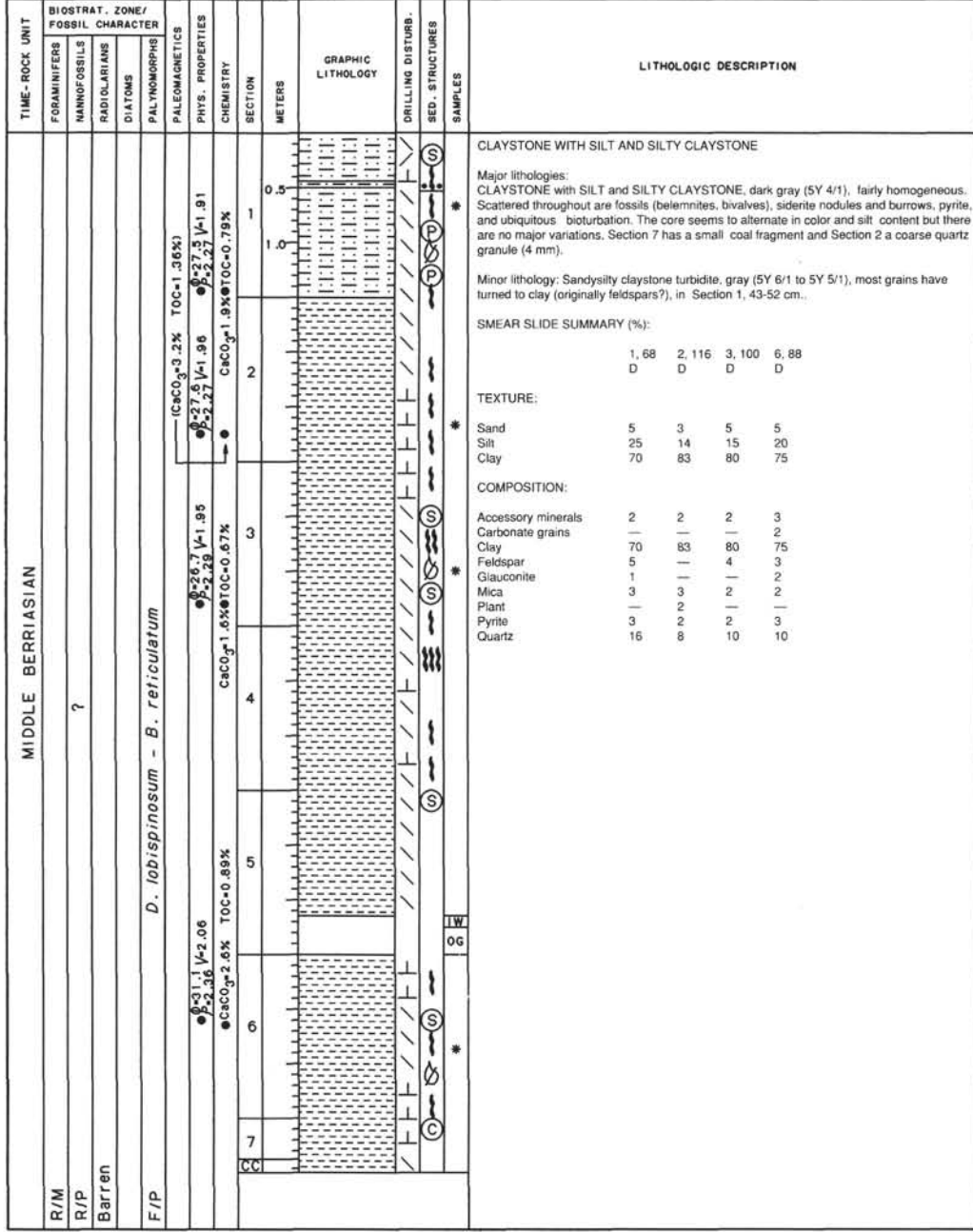
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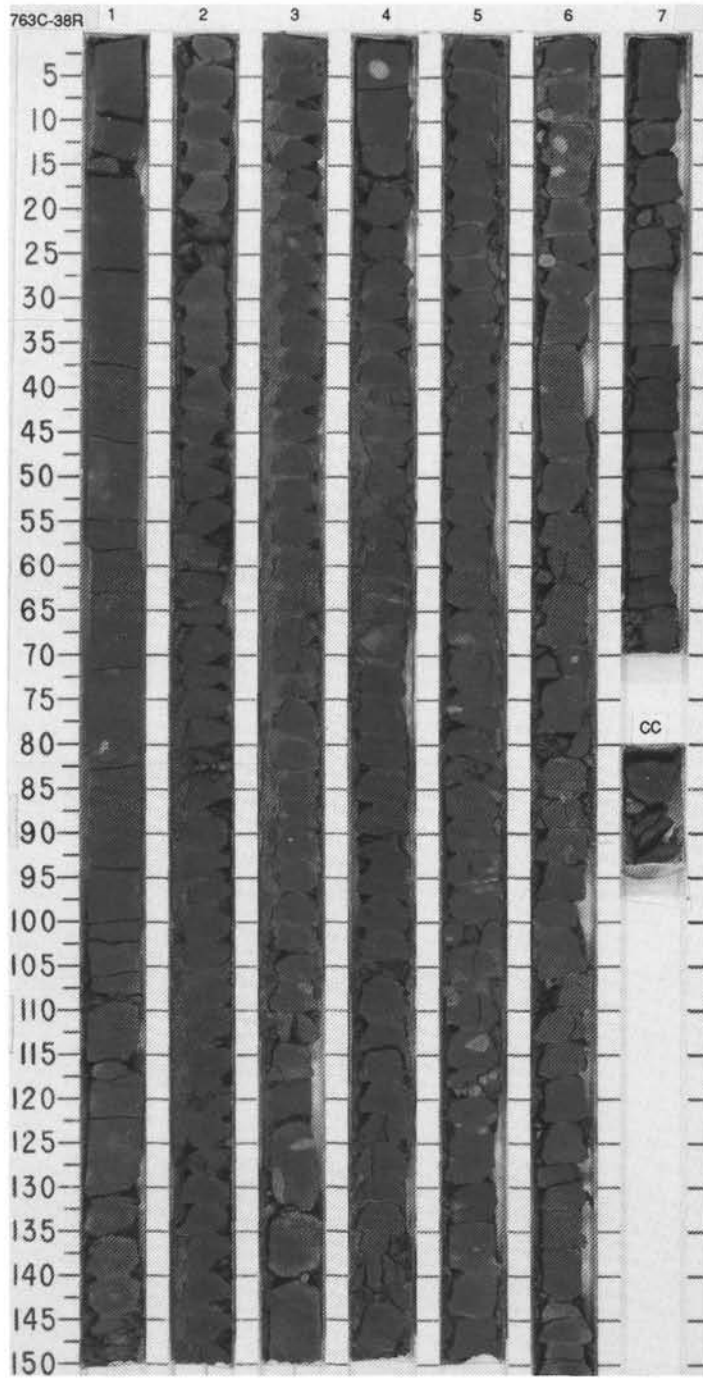
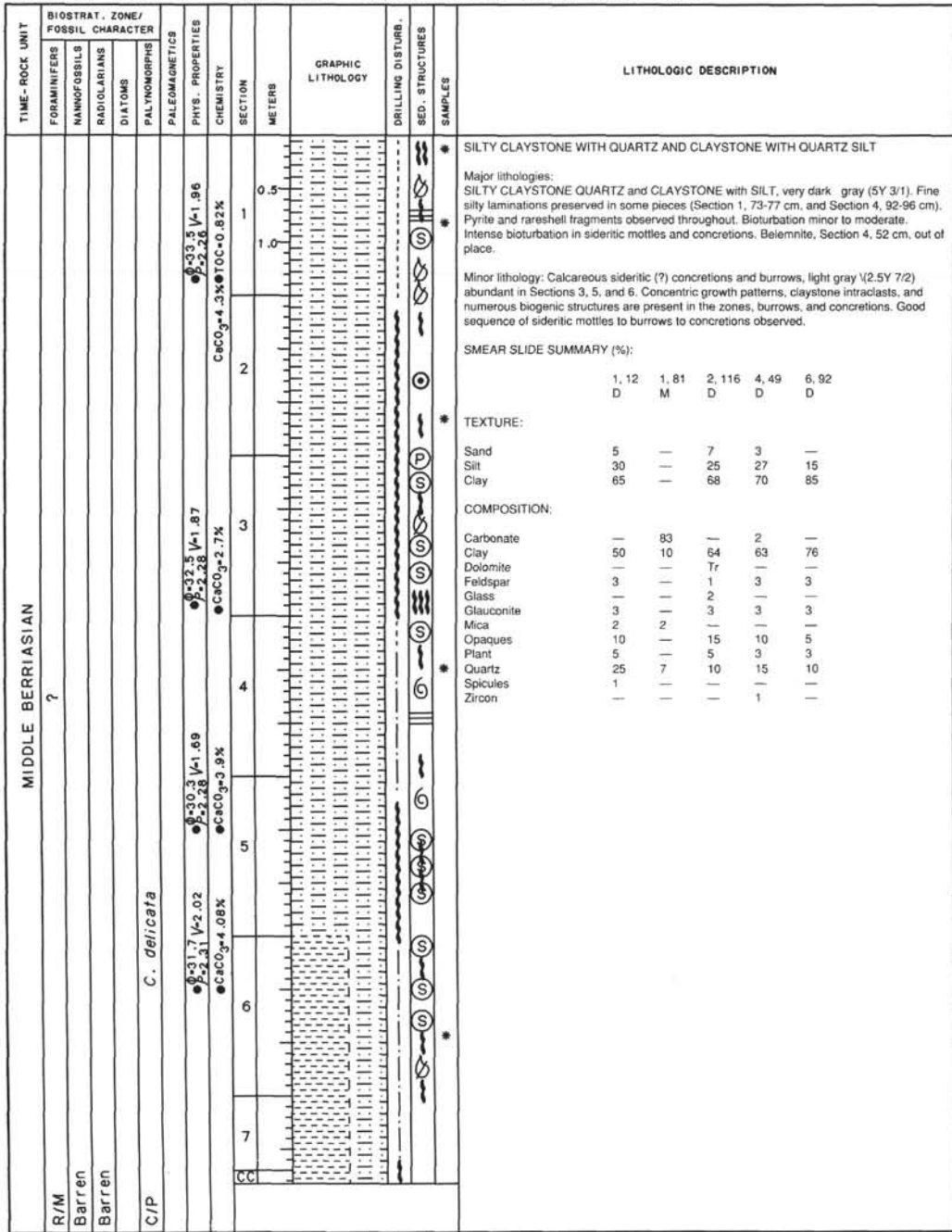


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NAKNOFOSSILS	RADIOLARIANS	DIAZONES										
MIDDLE BERRIASIAN	?													
R/M														
Barren														
Barren														
F/P	<i>D. lobispinosum - B. reticulatum</i>													
					● 26.5 V-1.85 ● 28.31 V-1.85									
					● 30.7 V-1.93 ● 32.34 V-1.93									
					● 37.0 V-2.08 ● 38.28 V-2.08									
					● 41.13 V-2.13 ● 42.88 V-2.13									
					● 47.0 V-2.28 ● 48.34 V-2.28									
					● 50.0 V-2.33 ● 51.33 V-2.33									
					● 53.0 V-2.38 ● 54.38 V-2.38									
					● 57.0 V-2.43 ● 58.33 V-2.43									
					● 61.0 V-2.48 ● 62.33 V-2.48									
					● 65.0 V-2.53 ● 66.33 V-2.53									
					● 69.0 V-2.58 ● 70.33 V-2.58									
					● 73.0 V-2.63 ● 74.33 V-2.63									
					● 77.0 V-2.68 ● 78.33 V-2.68									
					● 81.0 V-2.73 ● 82.33 V-2.73									
					● 85.0 V-2.78 ● 86.33 V-2.78									
					● 89.0 V-2.83 ● 90.33 V-2.83									
					● 93.0 V-2.88 ● 94.33 V-2.88									
					● 97.0 V-2.93 ● 98.33 V-2.93									
					● 101.0 V-2.98 ● 102.33 V-2.98									
					● 105.0 V-3.03 ● 106.33 V-3.03									
					● 109.0 V-3.08 ● 110.33 V-3.08									
					● 113.0 V-3.13 ● 114.33 V-3.13									
					● 117.0 V-3.18 ● 118.33 V-3.18									
					● 121.0 V-3.23 ● 122.33 V-3.23									
					● 125.0 V-3.28 ● 126.33 V-3.28									
					● 129.0 V-3.33 ● 130.33 V-3.33									
					● 133.0 V-3.38 ● 134.33 V-3.38									
					● 137.0 V-3.43 ● 138.33 V-3.43									
					● 141.0 V-3.48 ● 142.33 V-3.48									
					● 145.0 V-3.53 ● 146.33 V-3.53									
					● 149.0 V-3.58 ● 150.33 V-3.58									

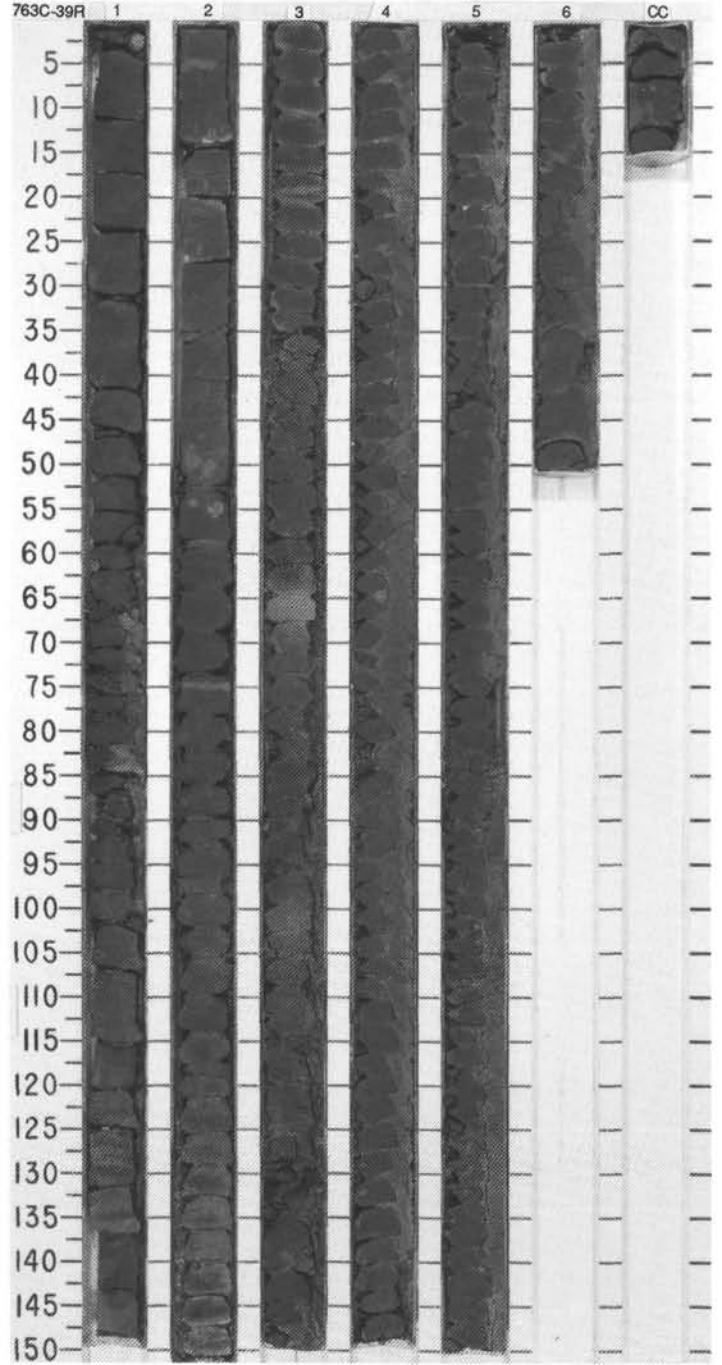
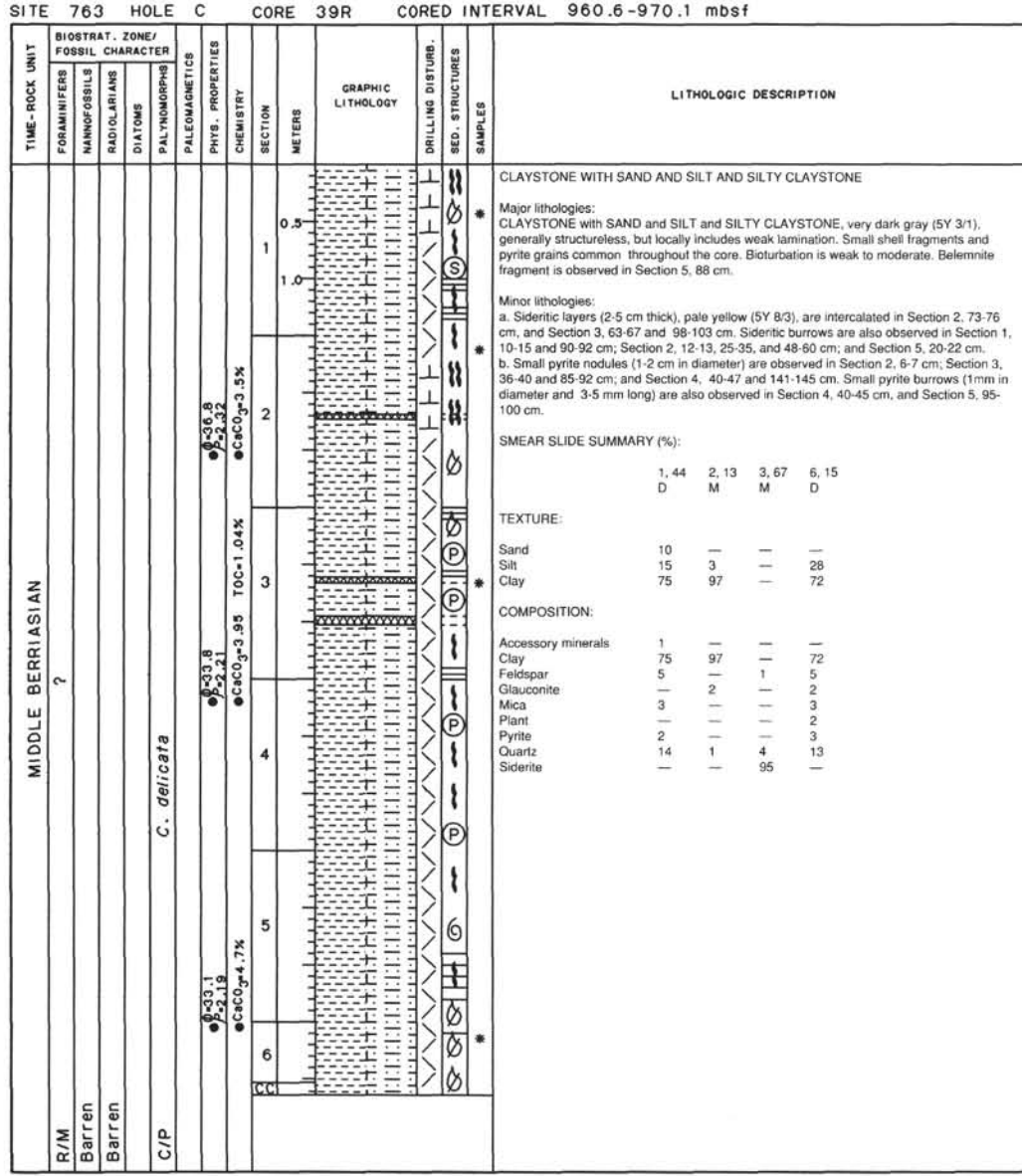


SITE 763 HOLE C CORE 37R CORED INTERVAL 941.6-951.1 mbsf

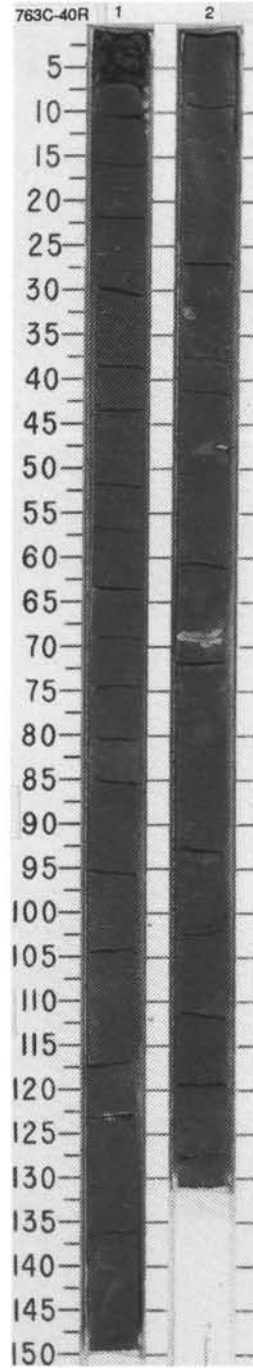








TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	MAMMOFOSBILS	RADIOLARIANS	DIATOMS	PALYNOSTRIPS								
MIDDLE BERRIASIAN													
R/M	?												
Barren													
Barren													
C/P					<i>C. delicata</i>								
						① 30.7 V-1 .82 ② 2.28 V-1 .82 ③ CaCO <sub>3</sub> 4.0%							



**SILTY CLAYSTONE AND CLAYSTONE WITH SILT**

Major lithologies:  
SILTY CLAYSTONE and CLAYSTONE with SILT, very dark gray (5Y 3/1). The core consists of two sections. In both sections, silty claystone is predominant although intricately intermingled with claystone with silt. Fossil fragments (including belemnite), pyrite nodules or burrow fills, slight bioturbation, and poorly defined laminations are observable.

SMEAR SLIDE SUMMARY (%):

	1.83	2.95
M	D	

TEXTURE:

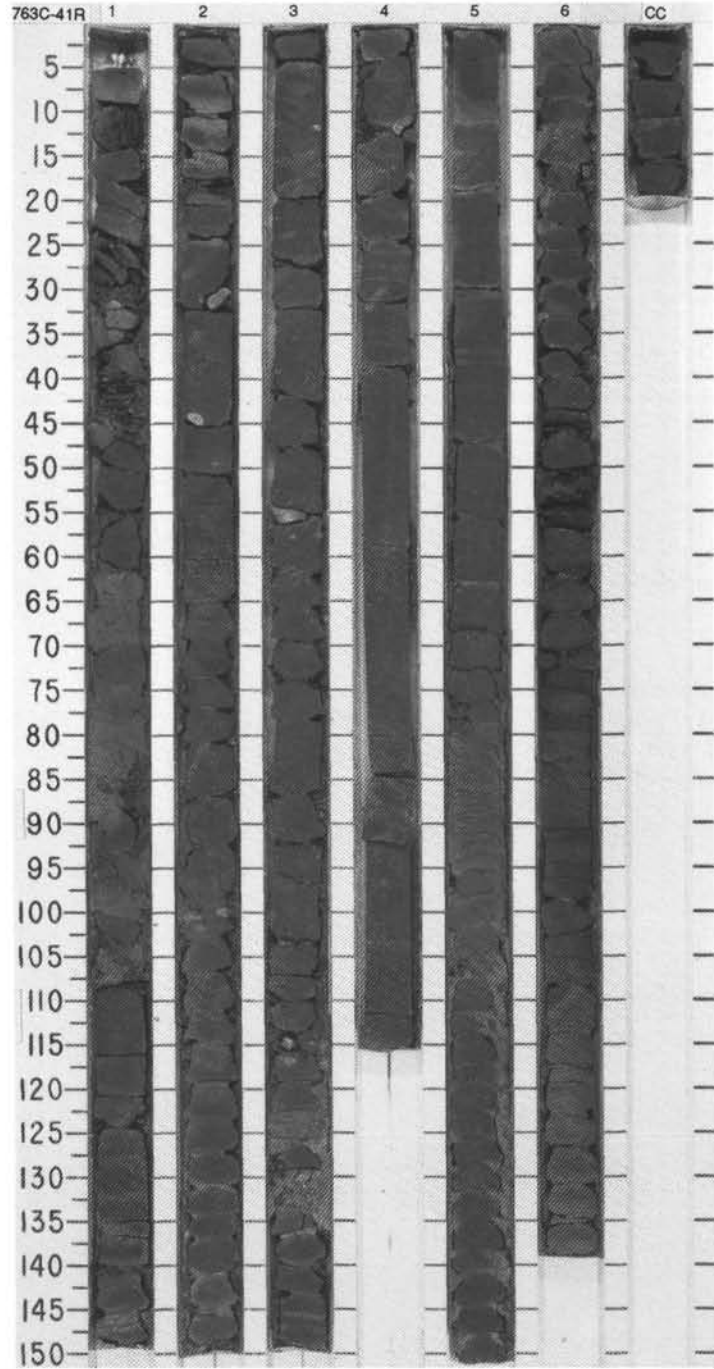
Sand	5	5
Silt	30	15
Clay	65	80

COMPOSITION:

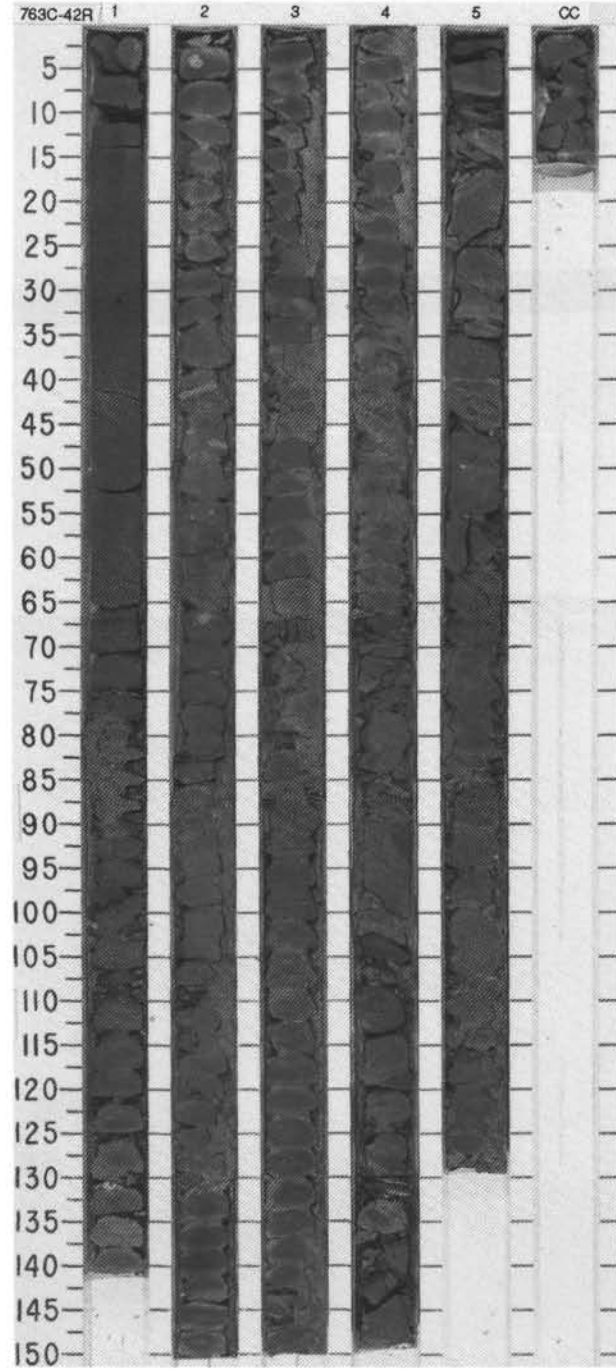
Accessory minerals	5	—
Clay	65	80
Feldspar	5	3
Glaucconite	—	1
Mica	5	3
Plant	—	2
Pyrite	—	3
Quartz	20	8

SITE 763 HOLE C CORE 41R CORED INTERVAL 979.6-989.1 mbsf

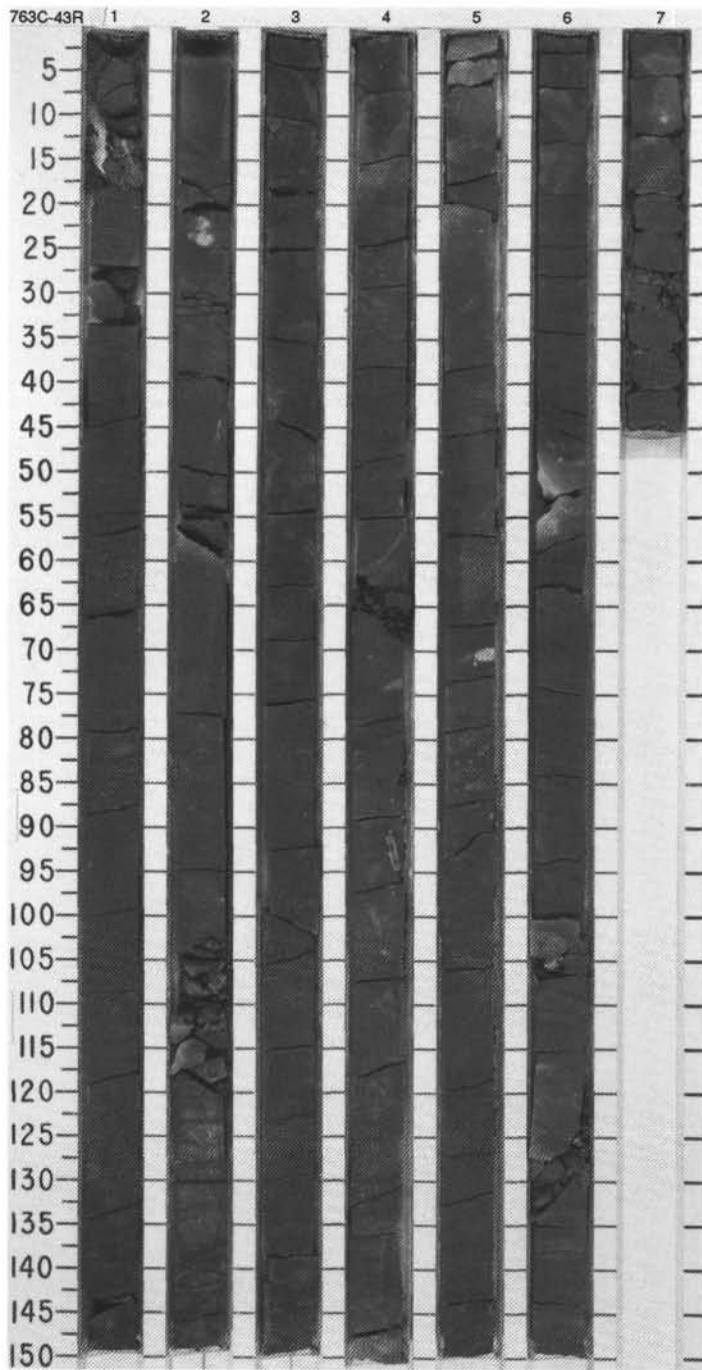
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	FORAMINIFERS	NANNOFOSSILS	RADOLIARIANS	DIATOMS	PALYNOMORPHS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																					
MIDDLE BERRIASIAN ?	<i>C. delicata</i>	R/M						• 33.8 V-1.70 2.23	• CaCO <sub>3</sub> -3.7%	0.5				<p>SILTY CLAYSTONE WITH QUARTZ</p> <p>Major lithology: SILTY CLAYSTONE with QUARTZ, very dark gray (5Y 3/1) to black (5Y 2.5/1). Bioturbation moderate to minor. Small silty laminations or partings (e.g. core catcher, 8-10 cm, 18-20 cm). Pyrite nodules, in Section 1, 62 cm, Section 3, 22 cm. Scattered shells in Section 5, upper 86 cm. Mollusc shell fragments (pelecypod), Section 6, 54 cm.</p> <p>Minor lithology: Calcareous sideritized (?) burrows and concretions, gray (5Y 7/2). Burrows are 1.5 X 2 cm with concentric growth (Section 3, 115 cm). Mottles observed in sideritic zones.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 112</td> <td>3, 36</td> <td>5, 60</td> <td>6, 65</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>3</td> <td>7</td> <td>3</td> <td>3</td> </tr> <tr> <td>Silt</td> <td>30</td> <td>40</td> <td>35</td> <td>40</td> </tr> <tr> <td>Clay</td> <td>67</td> <td>53</td> <td>62</td> <td>57</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Carbonate</td> <td>—</td> <td>3</td> <td>2</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>65</td> <td>42</td> <td>55</td> <td>47</td> </tr> <tr> <td>Feldspar</td> <td>3</td> <td>5</td> <td>3</td> <td>3</td> </tr> <tr> <td>Garnet</td> <td>1</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Glass</td> <td>—</td> <td>Tr</td> <td>—</td> <td>3</td> </tr> <tr> <td>Glauconite</td> <td>4</td> <td>3</td> <td>4</td> <td>3</td> </tr> <tr> <td>Mica</td> <td>—</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Opauques</td> <td>—</td> <td>7</td> <td>—</td> <td>10</td> </tr> <tr> <td>Plant</td> <td>5</td> <td>3</td> <td>7</td> <td>5</td> </tr> <tr> <td>Pyrite</td> <td>8</td> <td>—</td> <td>6</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>12</td> <td>35</td> <td>20</td> <td>27</td> </tr> <tr> <td>Rock fragment</td> <td>1</td> <td>—</td> <td>—</td> <td>—</td> </tr> </table>		1, 112	3, 36	5, 60	6, 65	D	D	D	D	D	Sand	3	7	3	3	Silt	30	40	35	40	Clay	67	53	62	57	Carbonate	—	3	2	—	Clay	65	42	55	47	Feldspar	3	5	3	3	Garnet	1	—	—	—	Glass	—	Tr	—	3	Glauconite	4	3	4	3	Mica	—	2	2	2	Opauques	—	7	—	10	Plant	5	3	7	5	Pyrite	8	—	6	—	Quartz	12	35	20	27	Rock fragment	1	—	—	—
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Garnet	1	—	—	—																																																																																															
Glass	—	Tr	—	3																																																																																															
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Mica	—	2	2	2																																																																																															
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Plant	5	3	7	5																																																																																															
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Rock fragment	1	—	—	—																																																																																															
Barren								• 33.9 V-1.57 2.42	• CaCO <sub>3</sub> -4.4%	1.0																																																																																									
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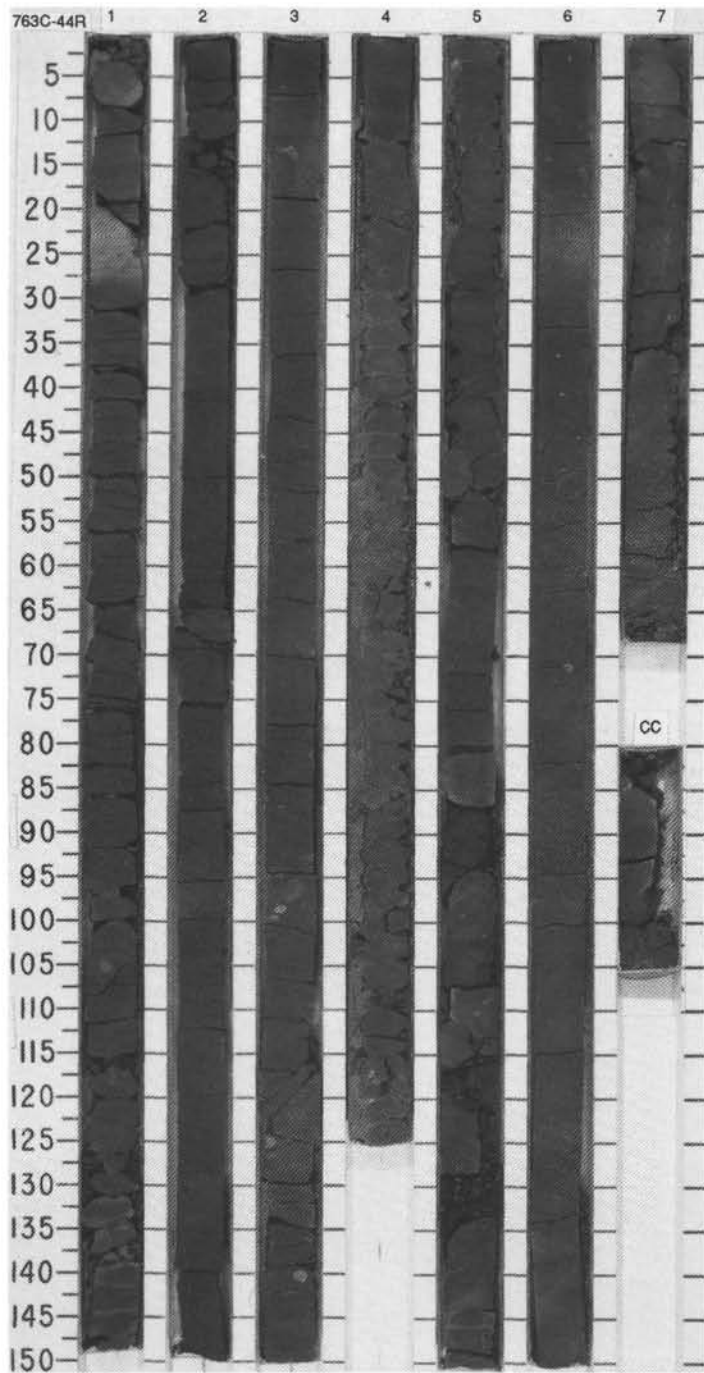
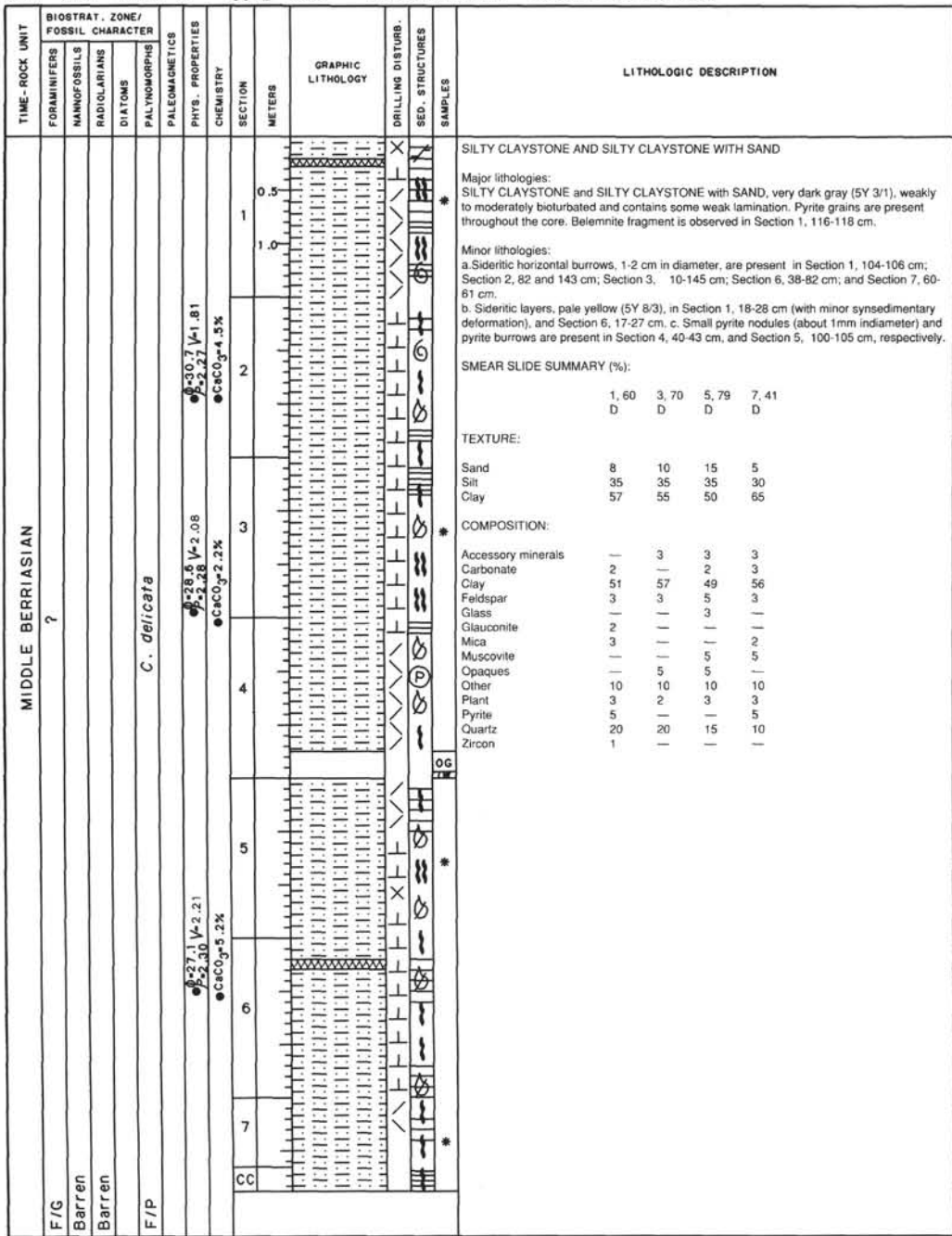
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SEC. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																				
MIDDLE BERRIASIAN ?										<p><b>SILTY CLAYSTONE</b></p> <p>The core consists mainly of 2-3 cm thick drilling biscuits.</p> <p>Major lithology: SILTY CLAYSTONE, very dark gray (5Y 3/1), weakly bioturbated with many pyrite grains throughout the core. Sideritic horizontal burrows, pale yellow (5Y 8/3), are common. Minor laminations are locally observed in Section 2, 36-150 cm, and Section 5, 60-70 cm. Small molluscan shell fragments are also contained in the core. Some belemnite fragments are observed at Section 1, 6 and 75 cm, and Section 3, 8 and 28 cm.</p> <p><b>SMEAR SLIDE SUMMARY (%):</b></p> <table border="1"> <tr> <td></td> <td>1.59</td> <td>3.100</td> <td>5.39</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p><b>TEXTURE:</b></p> <table border="1"> <tr> <td>Sand</td> <td>5</td> <td>5</td> <td>—</td> </tr> <tr> <td>Silt</td> <td>30</td> <td>35</td> <td>40</td> </tr> <tr> <td>Clay</td> <td>65</td> <td>60</td> <td>60</td> </tr> </table> <p><b>COMPOSITION:</b></p> <table border="1"> <tr> <td>Accessory minerals</td> <td>2</td> <td>3</td> <td>—</td> </tr> <tr> <td>Biotite</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Carbonate</td> <td>3</td> <td>2</td> <td>2</td> </tr> <tr> <td>Clay</td> <td>50</td> <td>56</td> <td>69</td> </tr> <tr> <td>Feldspar</td> <td>5</td> <td>3</td> <td>3</td> </tr> <tr> <td>Garnet</td> <td>1</td> <td>—</td> <td>1</td> </tr> <tr> <td>Glauconite</td> <td>3</td> <td>—</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>—</td> <td>—</td> <td>3</td> </tr> <tr> <td>Muscovite</td> <td>—</td> <td>3</td> <td>—</td> </tr> <tr> <td>Opauques</td> <td>—</td> <td>5</td> <td>3</td> </tr> <tr> <td>Other</td> <td>10</td> <td>10</td> <td>5</td> </tr> <tr> <td>Plant</td> <td>3</td> <td>3</td> <td>3</td> </tr> <tr> <td>Pyrite</td> <td>3</td> <td>—</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>20</td> <td>15</td> <td>10</td> </tr> <tr> <td>Zeolite</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Zircon</td> <td>—</td> <td>—</td> <td>1</td> </tr> </table>		1.59	3.100	5.39	D	D	D	D	Sand	5	5	—	Silt	30	35	40	Clay	65	60	60	Accessory minerals	2	3	—	Biotite	—	—	—	Carbonate	3	2	2	Clay	50	56	69	Feldspar	5	3	3	Garnet	1	—	1	Glauconite	3	—	—	Mica	—	—	3	Muscovite	—	3	—	Opauques	—	5	3	Other	10	10	5	Plant	3	3	3	Pyrite	3	—	—	Quartz	20	15	10	Zeolite	—	—	—	Zircon	—	—	1
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<p>SILTY CLAYSTONE AND SILTY CLAYSTONE WITH QUARTZ</p> <p>Core shows only minor drilling disturbance.</p> <p>Major lithologies: SILTY CLAYSTONE and SILTY CLAYSTONE with QUARTZ, very dark gray (5Y 3/1). Scattered shells, pyrite grains, and pyritized burrows present. Belemnites, Section 2, 53 cm; Section 3, 11 cm; Section 4, 90-95 cm (sideritized); and Section 5, 117 cm. Wispy (faint) laminations and parting surfaces present throughout. Texturally these laminations appear to have more silt. Laminations may be a result of biogenic activity.</p> <p>Minor lithology: Sideritized (?) concretions, burrows (e.g. Section 3, 50 cm), and layers, medium gray (5Y 6/1) to light gray (5Y 7/2) Layers, Section 4, 145-150 cm; Section 5, 0-5 cm; Section 6, 45-60 cm and 114-125 cm. Sideritized intervals intensely bioturbated, transitional boundaries.</p> <p>SMEAR SLIDE AND THIN SECTION SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 80</td> <td>2, 80</td> <td>4, 80</td> <td>5, 1</td> <td>5, 80</td> </tr> <tr> <td></td> <td>D</td> <td>D</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>5</td> <td>3</td> <td>—</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>28</td> <td>33</td> <td>32</td> <td>—</td> <td>30</td> </tr> <tr> <td>Clay</td> <td>70</td> <td>62</td> <td>65</td> <td>—</td> <td>65</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Altered grains</td> <td>—</td> <td>—</td> <td>5</td> <td>—</td> <td>3</td> </tr> <tr> <td>Bioclast</td> <td>Tr</td> <td>1</td> <td>3</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Biotite</td> <td>Tr</td> <td>1</td> <td>—</td> <td>—</td> <td>1</td> </tr> <tr> <td>Carbonate</td> <td>3</td> <td>2</td> <td>1</td> <td>15</td> <td>9</td> </tr> <tr> <td>Clay</td> <td>70</td> <td>61</td> <td>60</td> <td>75</td> <td>58</td> </tr> <tr> <td>Fe oxide</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Feldspar</td> <td>7</td> <td>10</td> <td>8</td> <td>—</td> <td>9</td> </tr> <tr> <td>Foraminifers</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Glauconite</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Hypersthene</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>4</td> <td>2</td> <td>3</td> <td>—</td> <td>3</td> </tr> <tr> <td>Opakes</td> <td>—</td> <td>—</td> <td>—</td> <td>3</td> <td>—</td> </tr> <tr> <td>Plant</td> <td>3</td> <td>—</td> <td>3</td> <td>2</td> <td>2</td> </tr> <tr> <td>Pyrite</td> <td>3</td> <td>6</td> <td>2</td> <td>—</td> <td>4</td> </tr> <tr> <td>Quartz</td> <td>8</td> <td>15</td> <td>12</td> <td>5</td> <td>11</td> </tr> <tr> <td>Rock fragment</td> <td>2</td> <td>2</td> <td>3</td> <td>—</td> <td>—</td> </tr> </table>					1, 80	2, 80	4, 80	5, 1	5, 80		D	D	D	M	D	Sand	2	5	3	—	5	Silt	28	33	32	—	30	Clay	70	62	65	—	65	Altered grains	—	—	5	—	3	Bioclast	Tr	1	3	—	Tr	Biotite	Tr	1	—	—	1	Carbonate	3	2	1	15	9	Clay	70	61	60	75	58	Fe oxide	Tr	—	—	—	—	Feldspar	7	10	8	—	9	Foraminifers	—	—	—	—	Tr	Glauconite	—	Tr	—	—	Tr	Hypersthene	Tr	—	—	—	—	Mica	4	2	3	—	3	Opakes	—	—	—	3	—	Plant	3	—	3	2	2	Pyrite	3	6	2	—	4	Quartz	8	15	12	5	11	Rock fragment	2	2	3	—	—
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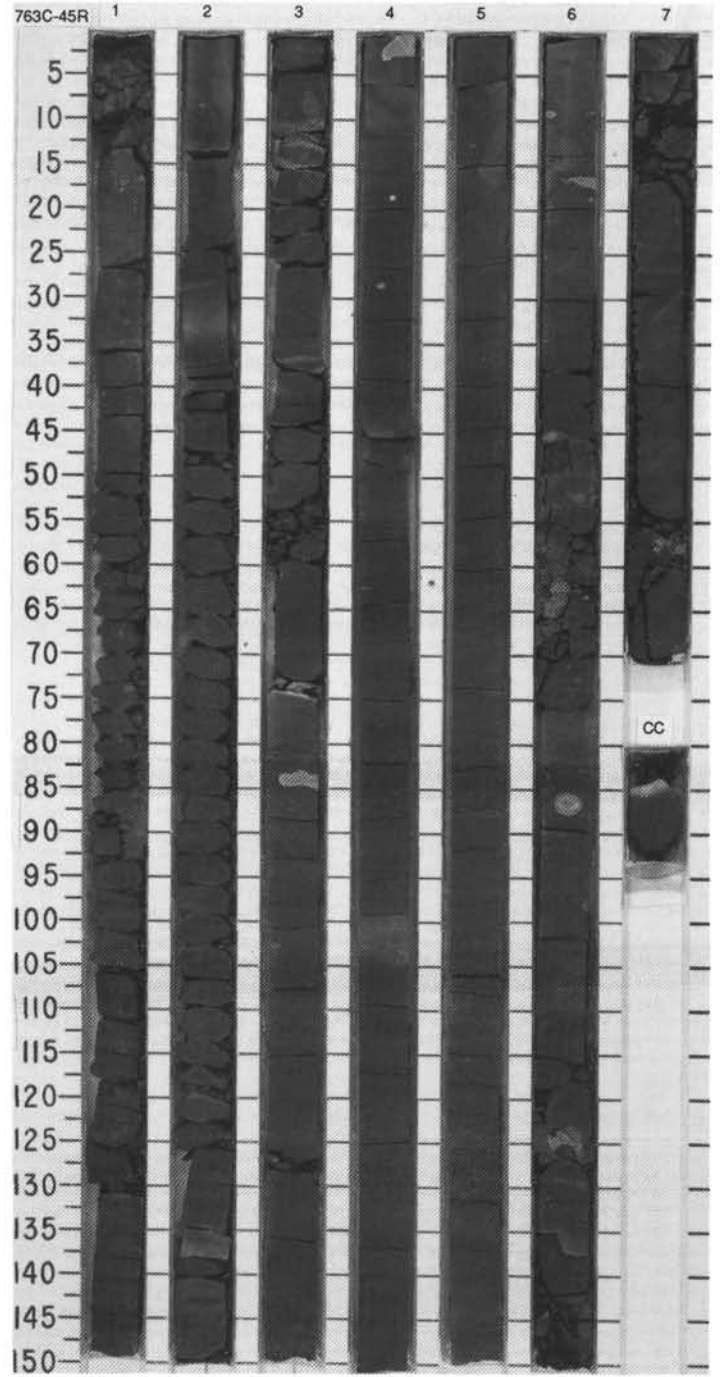






SITE 763 HOLE C CORE 45R CORED INTERVAL 1017.6-1027.1 mbsf

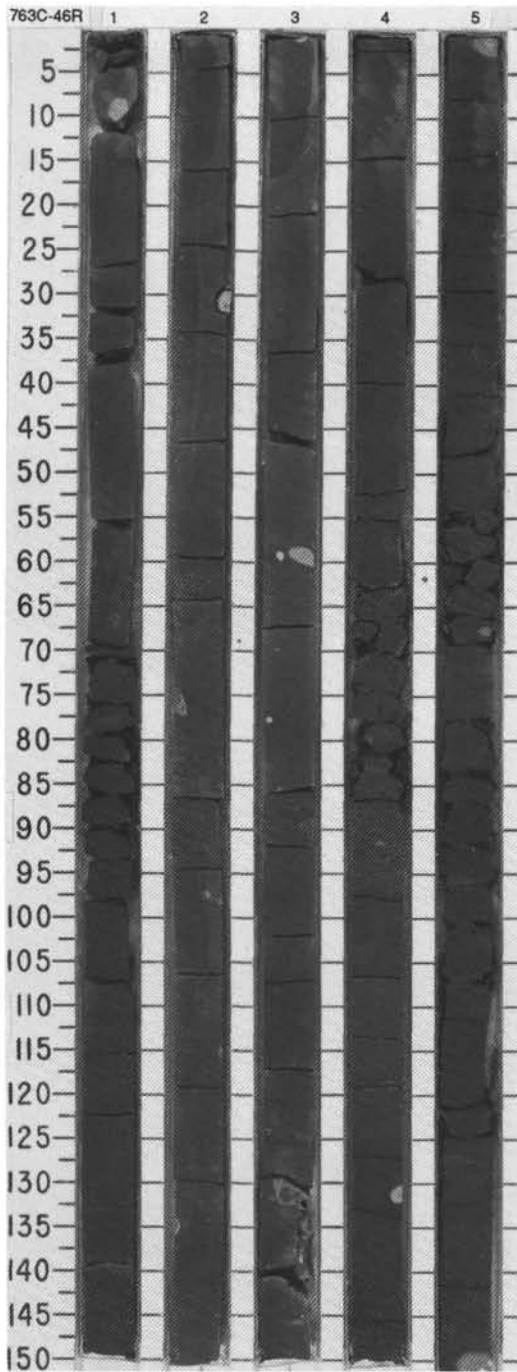
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																															
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MIDDLE BERRIASIAN																																																																																																																													
F/G	?							1	0.5					<p><b>SILTY CLAYSTONE WITH QUARTZ</b></p> <p>Minimal drilling disturbance.</p> <p>Major lithology: SILTY CLAYSTONE with QUARTZ, VERY DARK GRAY (SY 3/1). Contains common feldspar and altered grains which were probably mostly feldspar. Finely disseminated shelly debris and fine pyritized burrows occur together at many levels. Pale olive (SY 6/3) carbonate burrows and concretions with 1-2 cm diameters are common. The concretions probably formed around burrows early in diagenesis as shelly partings are bent around them. One vertical burrow is 10 cm long (Section 6, 60-69 cm). Belemnite is present at Section 5, 127 cm.</p> <p>Minor lithology: Siderite (?) replacing claystone, olive (SY 5/3), Section 2, 30-34 cm, and Section 4, 100-104 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr><td>1</td><td>104</td><td>3</td><td>103</td><td>4</td><td>54</td><td>4</td><td>104</td></tr> <tr><td>D</td><td></td><td>D</td><td></td><td>D</td><td></td><td>D</td><td></td></tr> </table> <p>TEXTURE:</p> <table border="1"> <tr><td>Sand</td><td>10</td><td>10</td><td>5</td><td>--</td></tr> <tr><td>Silt</td><td>35</td><td>30</td><td>35</td><td>--</td></tr> <tr><td>Clay</td><td>55</td><td>60</td><td>60</td><td>--</td></tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr><td>Accessory minerals</td><td>2</td><td>--</td><td>3</td><td>--</td></tr> <tr><td>Altered Grains</td><td>--</td><td>5</td><td>--</td><td>--</td></tr> <tr><td>Biotite</td><td>1</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>Carbonate</td><td>6</td><td>3</td><td>4</td><td>--</td></tr> <tr><td>Clay</td><td>54</td><td>57</td><td>52</td><td>--</td></tr> <tr><td>Foraminifers</td><td>--</td><td>1</td><td>1</td><td>2</td></tr> <tr><td>Glass</td><td>--</td><td>--</td><td>Tr</td><td>--</td></tr> <tr><td>Glauconite</td><td>2</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>Hypersthene</td><td>--</td><td>--</td><td>2</td><td>--</td></tr> <tr><td>Mica</td><td>--</td><td>3</td><td>Tr</td><td>--</td></tr> <tr><td>Muscovite</td><td>3</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>Opauques</td><td>5</td><td>5</td><td>5</td><td>5</td></tr> <tr><td>Other</td><td>8</td><td>--</td><td>10</td><td>--</td></tr> <tr><td>Plant</td><td>3</td><td>2</td><td>3</td><td>3</td></tr> <tr><td>Quartz</td><td>15</td><td>20</td><td>15</td><td>5</td></tr> <tr><td>Siderite</td><td>--</td><td>--</td><td>--</td><td>85</td></tr> </table>	1	104	3	103	4	54	4	104	D		D		D		D		Sand	10	10	5	--	Silt	35	30	35	--	Clay	55	60	60	--	Accessory minerals	2	--	3	--	Altered Grains	--	5	--	--	Biotite	1	--	--	--	Carbonate	6	3	4	--	Clay	54	57	52	--	Foraminifers	--	1	1	2	Glass	--	--	Tr	--	Glauconite	2	--	--	--	Hypersthene	--	--	2	--	Mica	--	3	Tr	--	Muscovite	3	--	--	--	Opauques	5	5	5	5	Other	8	--	10	--	Plant	3	2	3	3	Quartz	15	20	15	5	Siderite	--	--	--	85
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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	NANOFOSSILS	RADIOLARIANS	DIAATOMS									
MIDDLE BERRIASIAN													
F/M	?							1	0.5				
R/P		?						2	1.0				
Barren								3					
F/P								4					
								5					

PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY
	● 25.8 V <sub>2</sub> -1.17 / 2.28	● CECO <sub>3</sub> 4.2%
	● 26.8 V <sub>2</sub> -1.15 / 2.28	● CECO <sub>3</sub> 5.2%



CLAYSTONE WITH SALT AND SILTY CLAYSTONE  
 Core shows only minor drilling disturbance.  
 Major lithologies:  
 CLAYSTONE with SILT and minor SILTY CLAYSTONE, homogeneous very dark gray (5Y 3/1). Crude parallel lamination derives from compaction of horizontally burrowed sediment ("pseudo-lamination"). Large sidentic(?) burrows, 13 cm in diameter, are common through the core. Thin-shelled mollusc debris is present, but rare.

SMEAR SLIDE SUMMARY (%):

	1, 161	2, 82	3, 127	5, 22
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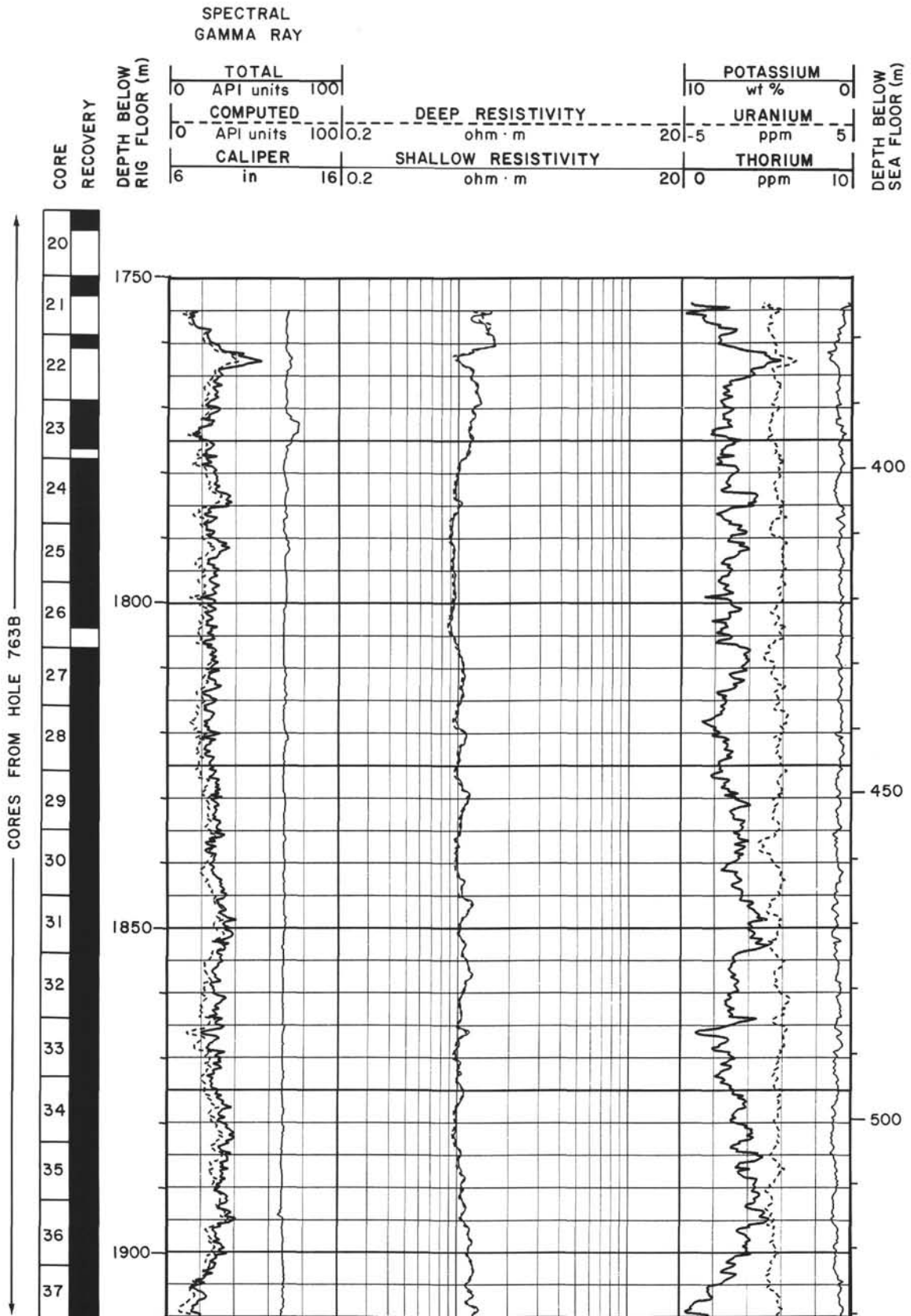
TEXTURE:

	17	15	16	32
Silt				
Clay	83	85	84	68

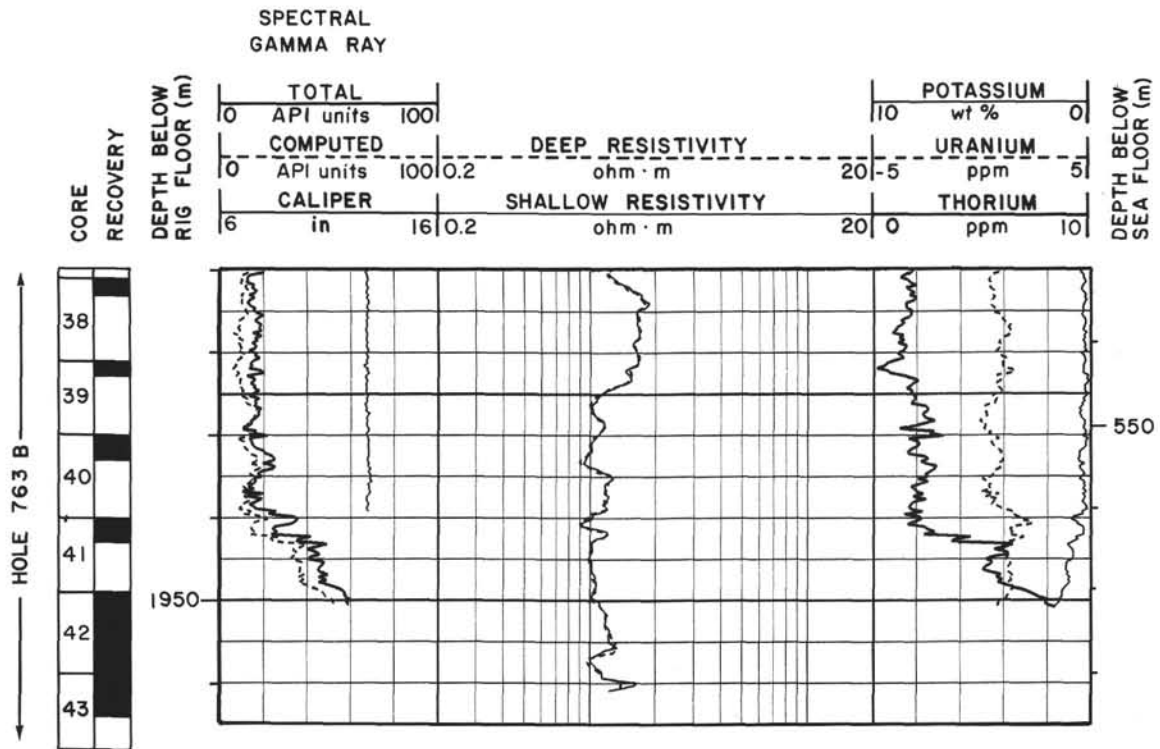
COMPOSITION:

Accessory minerals	Tr	---	Tr	---
Altered grains	5	5	5	5
Biotite	Tr	Tr	---	---
Tr	---	---	---	---
Clay	83	83	84	68
Feldspar	1	1	2	4
Fish	---	---	---	Tr
Glauconite	Tr	Tr	Tr	Tr
Mica	1	1	2	3

Summary Log for Site 763B

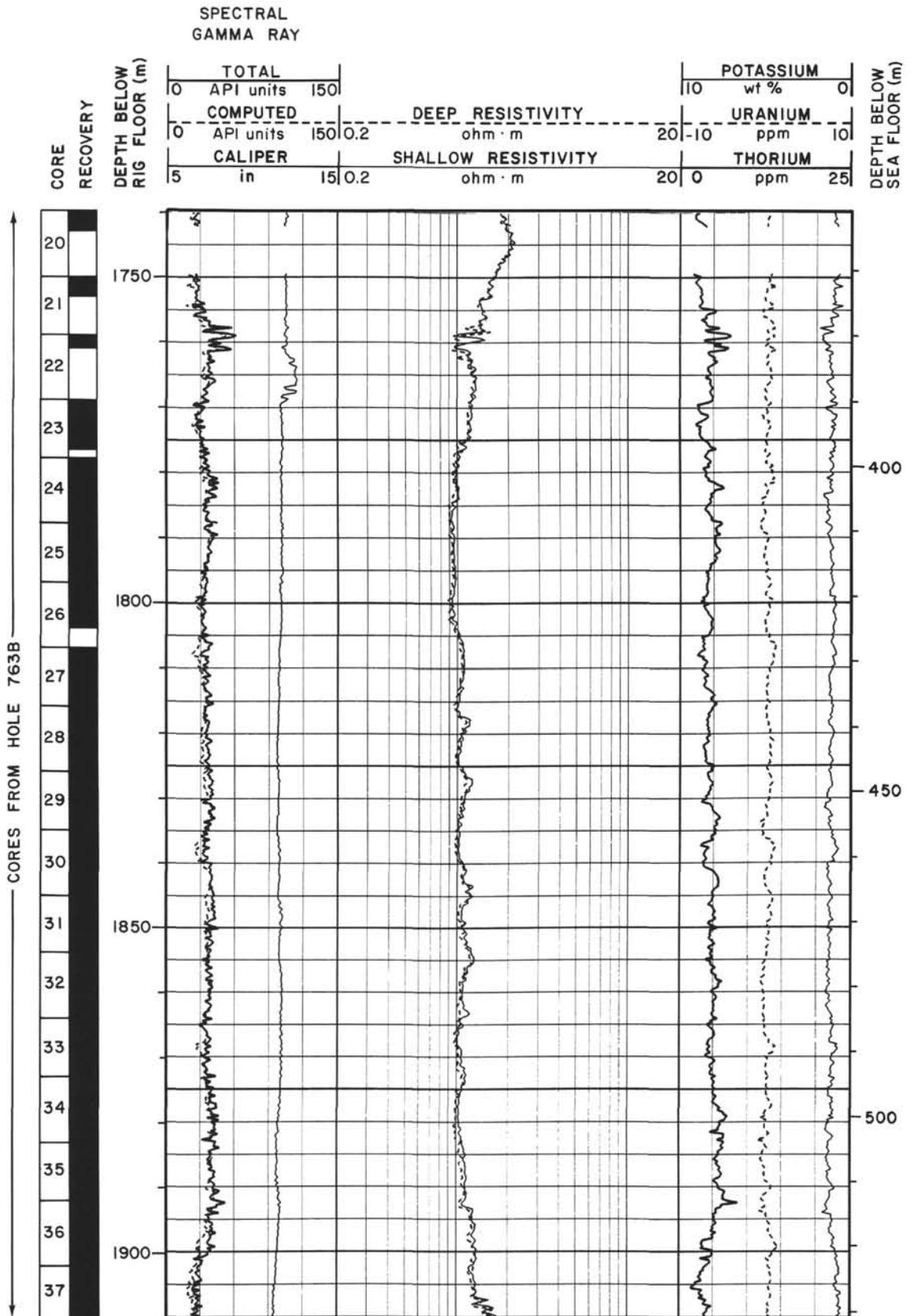


Summary Log for Site 763B (continued)

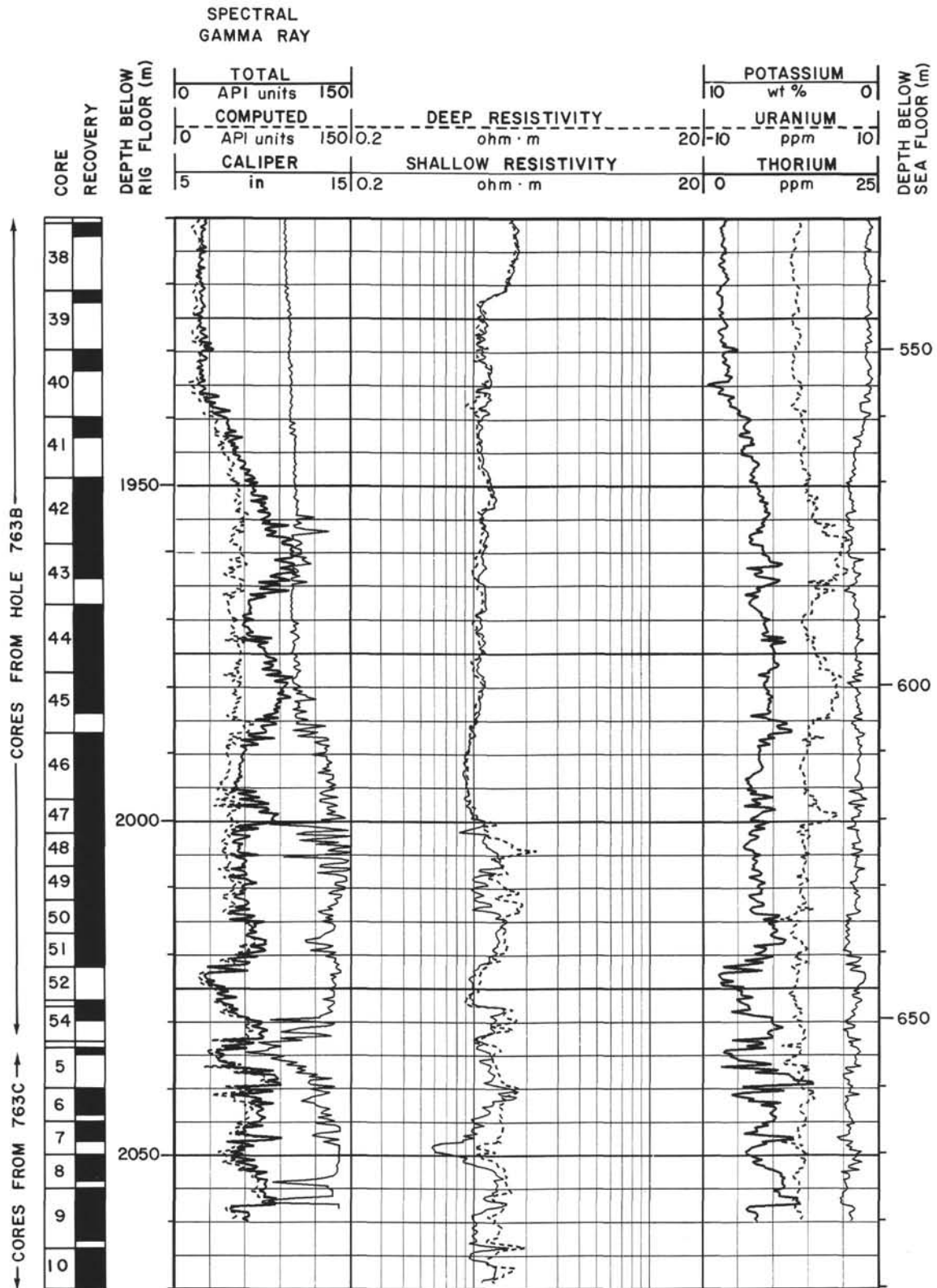




Summary Log for Site 763C



Summary Log for Site 763C (continued)



Summary Log for Site 763C (continued)

