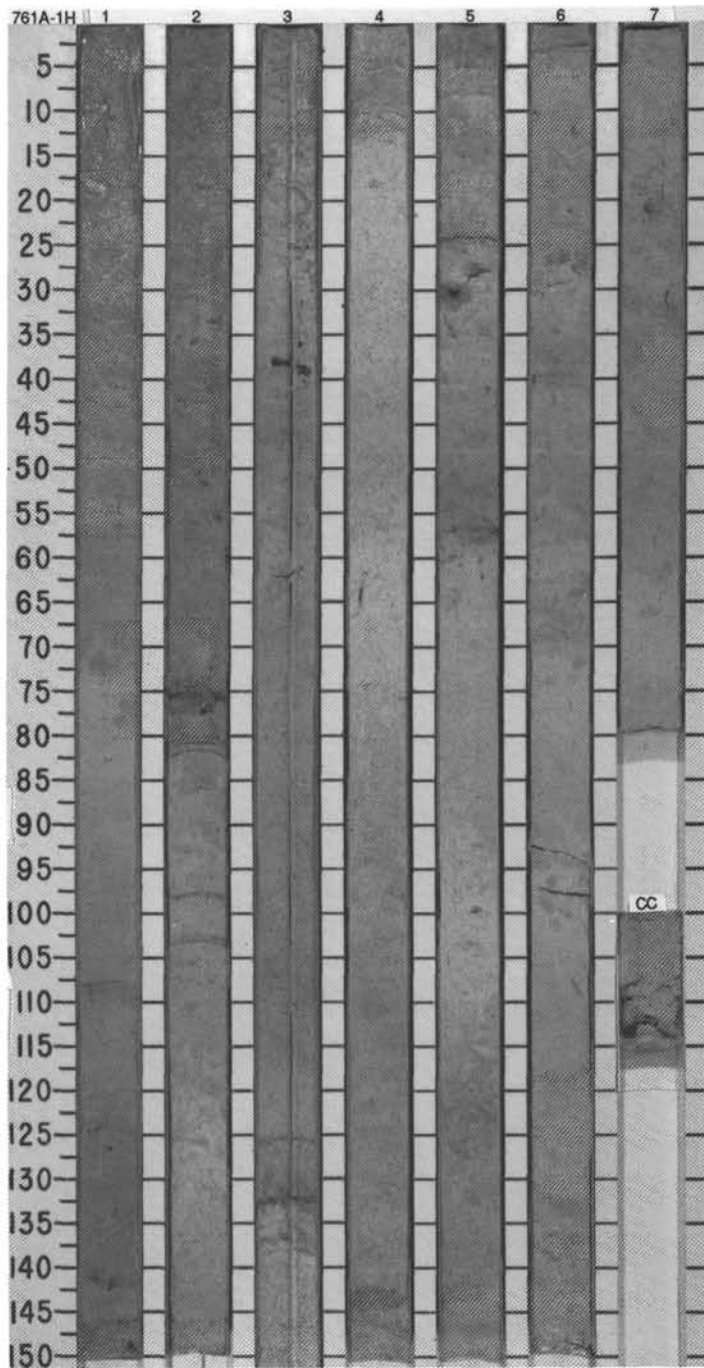


TIME - ROCK UNIT	BIOSTRAT. ZONE / FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																																								
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																																																																																																		
QUATERNARY	MIDDLE - UPPER QUATERNARY													<p>FORAMINIFER NANNOFOSSIL OOZE</p> <p>Major lithology: FORAMINIFER NANNOFOSSIL OOZE with cyclic color changes. Pink (5YR 8/3) dominant color, Section 1, 0-108 cm; very pale brown (10YR 7/3) Section 1, 108-150 cm, interlayered with light gray (2.5Y 7/2) bands, 1-3 cm thick. Light gray (5Y 7/1) or white (10YR 8/2, 10YR 8/1, or 5Y 8/1) Sections 2 and 3; Sections 4 through CC also include pale green (5G 7/2, 6/1) to dark greenish gray (10Y 5/2) color bands (5-10 cm thick), typically interlayered with gray (N 6/0) and minor light greenish gray (10Y 7/2) color bands. Weak to moderate bioturbation, Section 5, 120-130 cm, Section 6, 0 to Section 7, 80 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 83</td> <td>1, 126</td> <td>1, 141</td> <td>2, 50</td> <td>2, 103</td> <td>4, 7</td> <td>5, 58</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>M</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>—</td> <td>—</td> <td>—</td> <td>—</td> <td>10</td> <td>—</td> <td>15</td> </tr> <tr> <td>Silt</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>10</td> <td>—</td> <td>15</td> </tr> <tr> <td>Clay</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>80</td> <td>—</td> <td>70</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Calcspheres</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>1</td> <td>—</td> </tr> <tr> <td>Carbonate</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>3</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>1</td> <td>—</td> <td>—</td> </tr> <tr> <td>Fish</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> <td>1</td> </tr> <tr> <td>Foraminifers</td> <td>25</td> <td>35</td> <td>30</td> <td>25</td> <td>35</td> <td>25</td> <td>25</td> </tr> <tr> <td>Mica</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>75</td> <td>60</td> <td>62</td> <td>75</td> <td>60</td> <td>70</td> <td>67</td> </tr> <tr> <td>Radiolarians</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>1</td> <td>4</td> </tr> <tr> <td>Silicoflagellates</td> <td>—</td> <td>—</td> <td>3</td> <td>—</td> <td>—</td> <td>1</td> <td>1</td> </tr> <tr> <td>Spicules</td> <td>—</td> <td>5</td> <td>5</td> <td>—</td> <td>Tr</td> <td>1</td> <td>1</td> </tr> </table>		1, 83	1, 126	1, 141	2, 50	2, 103	4, 7	5, 58		D	D	M	D	M	D	D	Sand	—	—	—	—	10	—	15	Silt	—	—	—	—	10	—	15	Clay	—	—	—	—	80	—	70	Calcspheres	—	—	—	—	—	1	—	Carbonate	—	—	—	—	3	1	Tr	Clay	—	—	—	—	1	—	—	Fish	—	—	—	—	Tr	—	1	Foraminifers	25	35	30	25	35	25	25	Mica	—	—	—	—	—	—	—	Nannofossils	75	60	62	75	60	70	67	Radiolarians	—	—	—	—	—	1	4	Silicoflagellates	—	—	3	—	—	1	1	Spicules	—	5	5	—	Tr	1	1
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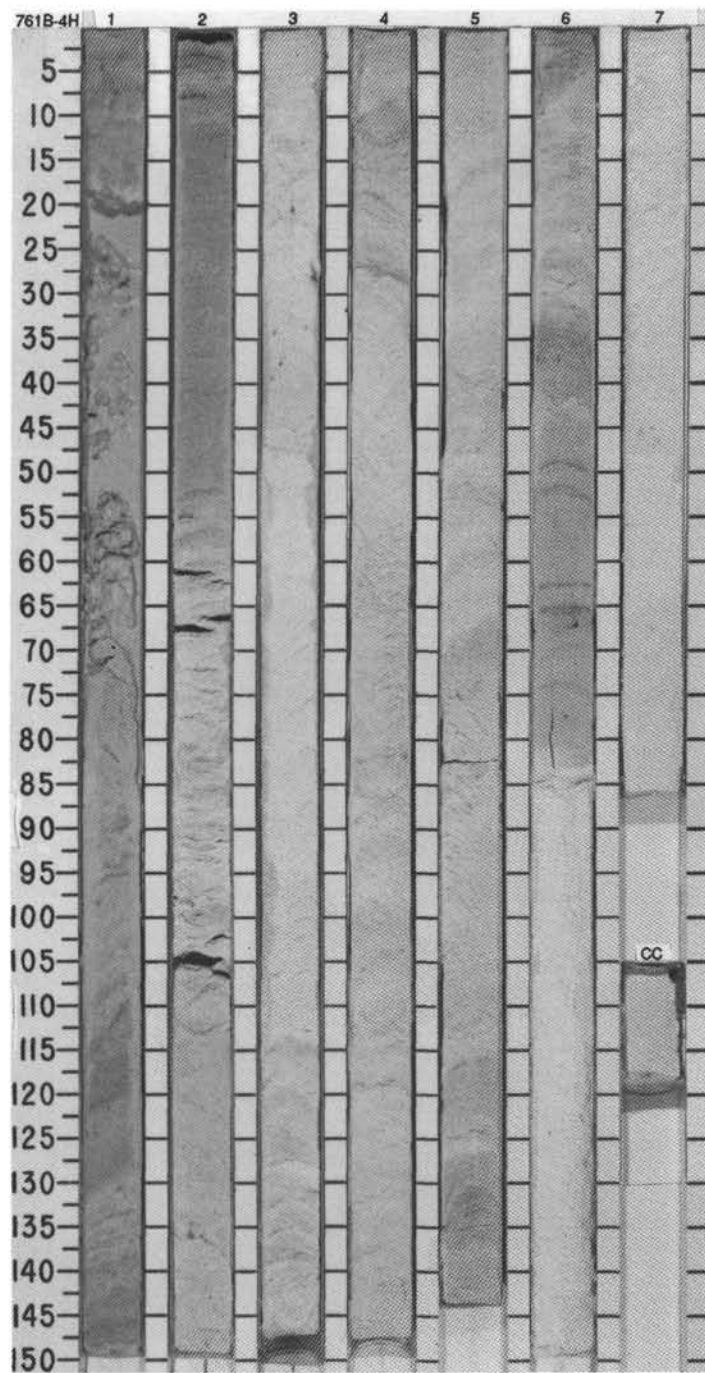




TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																																															
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QUATERNARY	LOWER QUATERNARY A. <i>ypisoides</i> / A. <i>angulare</i> Zones													<p>NANNOFOSSIL OOZE WITH FORAMINIFERS</p> <p>* Major lithology: NANNOFOSSIL OOZE with FORAMINIFERS, structureless or moderately mottled, predominantly light gray (5Y 7/1) to white (5Y 8/1), including cyclical color bands. The cyclic color changes characterized by light greenish-gray (10Y 6/4) bands, 2-10 mm thick, observed within Section 1, 10-15 cm and 136-150 cm, Section 2, 0-38 cm, Section 3, 0-53 cm, Section 4, 0-107 cm, and Section 6, 80-140 cm. Greenish-gray bands are associated with light gray (5Y 7/2) and minor gray (5Y 6/1) bands, 1-15 mm thick. Color band couplets are 15-25 cm thick.</p> <p>* Minor lithologies:                      a. Foraminifer nannofossil ooze is observed in the major lithology, but also shows the cyclic color changes.                      b. Foraminifer nannofossil ooze with clay, 1-3 mm thick, dark greenish gray (10Y 5/4) laminae, Section 2, 26 cm; Section 3, 18, 37, and 52 cm, and Section 5, 19, 21, 31, 44, 96, 98, 101, and 104 cm.</p> <p>* SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 42</td> <td>1, 112</td> <td>1, 143</td> <td>2, 26</td> <td>2, 45</td> <td>2, 87</td> <td>2, 128</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>M</td> <td>M</td> <td>D</td> <td>D</td> <td>M</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>—</td> <td>7</td> <td>—</td> <td>15</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>15</td> <td>35</td> <td>20</td> <td>25</td> <td>20</td> <td>15</td> <td>30</td> </tr> <tr> <td>Nannofossils</td> <td>85</td> <td>58</td> <td>78</td> <td>60</td> <td>80</td> <td>85</td> <td>70</td> </tr> <tr> <td>Quartz</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> <td>Tr</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Spicules</td> <td>Tr</td> <td>Tr</td> <td>—</td> <td>Tr</td> <td>—</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Zeolite</td> <td>—</td> <td>—</td> <td>2</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> </table> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>4, 100</td> <td>5, 23</td> <td>5, 140</td> <td>6, 70</td> <td>6, 99</td> <td>7, 38</td> </tr> <tr> <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>Fish</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>16</td> <td>19</td> <td>19</td> <td>30</td> <td>17</td> <td>20</td> </tr> <tr> <td>Glass</td> <td>Tr</td> <td>Tr</td> <td>—</td> <td>Tr</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>81</td> <td>78</td> <td>74</td> <td>63</td> <td>80</td> <td>76</td> </tr> <tr> <td>Radiolarians</td> <td>—</td> <td>—</td> <td>2</td> <td>—</td> <td>—</td> <td>2</td> </tr> <tr> <td>Silicoflagellates</td> <td>Tr</td> <td>—</td> <td>Tr</td> <td>5</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Spicules</td> <td>3</td> <td>3</td> <td>5</td> <td>2</td> <td>3</td> <td>2</td> </tr> </table>		1, 42	1, 112	1, 143	2, 26	2, 45	2, 87	2, 128	D	D	D	M	M	D	D	M	Clay	—	7	—	15	—	—	—	Foraminifers	15	35	20	25	20	15	30	Nannofossils	85	58	78	60	80	85	70	Quartz	—	—	Tr	—	Tr	Tr	—	Spicules	Tr	Tr	—	Tr	—	Tr	Tr	Zeolite	—	—	2	—	—	—	—		4, 100	5, 23	5, 140	6, 70	6, 99	7, 38	D	D	D	D	D	D	D	Fish	Tr	—	—	—	—	—	Foraminifers	16	19	19	30	17	20	Glass	Tr	Tr	—	Tr	Tr	—	Nannofossils	81	78	74	63	80	76	Radiolarians	—	—	2	—	—	2	Silicoflagellates	Tr	—	Tr	5	—	Tr	Spicules	3	3	5	2	3	2
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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	PALEOMAGNETICS								PHYS. PROPERTIES	CHEMISTRY																																																																														
UPPER PLIOCENE		N21				1	0.5	+	O			FORAMINIFER NANNOFOSSIL OOZE, NANNOFOSSIL OOZE WITH FORAMINIFERS, AND NANNOFOSSIL OOZE  Major lithology: FORAMINIFER NANNOFOSSIL OOZE, NANNOFOSSIL OOZE with FORAMINIFERS, and NANNOFOSSIL OOZE, color banded, with white (5Y 8/1), light gray (N7 and 5Y 7/1), and light greenish-gray (10Y 7/1). Section 1, 0 to Section 2, 58 cm, is light greenish-gray. Section 3, 114-150 cm, and at Section 6, 0-32 cm, contain alternating white and light gray or light greenish-gray bands, 2-5 cm thick; elsewhere color banded intervals 10-100 cm thick. Section 6, 83 cm, paleontological unconformity, corresponds to a color boundary, light greenish-gray foraminiferal ooze above, and white, homogeneous foram- inifer-nannofossil ooze below.  SMEAR SLIDE SUMMARY (%):  <table border="1"> <thead> <tr> <th></th> <th>1, 98</th> <th>2, 98</th> <th>3, 79</th> <th>4, 18</th> <th>5, 134</th> <th>6, 68</th> <th>7, 57</th> </tr> </thead> <tbody> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </tbody> </table> COMPOSITION:  <table border="1"> <thead> <tr> <th></th> <th>8</th> <th>4</th> <th>3</th> <th>3</th> <th>6</th> <th>6</th> <th>6</th> </tr> </thead> <tbody> <tr> <td>Bioclast</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>2</td> <td>—</td> <td>5</td> </tr> <tr> <td>Clay</td> <td>20</td> <td>8</td> <td>6</td> <td>5</td> <td>18</td> <td>27</td> <td>37</td> </tr> <tr> <td>Foraminifers</td> <td>Tr</td> <td>Tr</td> <td>—</td> <td>—</td> <td>2</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>69</td> <td>86</td> <td>89</td> <td>91</td> <td>69</td> <td>64</td> <td>50</td> </tr> <tr> <td>Quartz</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Radiolarians</td> <td>3</td> <td>2</td> <td>2</td> <td>1</td> <td>2</td> <td>3</td> <td>2</td> </tr> <tr> <td>Spicules</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>1</td> <td>—</td> <td>—</td> </tr> </tbody> </table>		1, 98	2, 98	3, 79	4, 18	5, 134	6, 68	7, 57	D	D	D	D	D	D	D	D		8	4	3	3	6	6	6	Bioclast	—	—	—	—	2	—	5	Clay	20	8	6	5	18	27	37	Foraminifers	Tr	Tr	—	—	2	Tr	—	Nannofossils	69	86	89	91	69	64	50	Quartz	Tr	—	—	—	—	—	—	Radiolarians	3	2	2	1	2	3	2	Spicules	—	—	—	—	1	—	—
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UPPER MIOCENE		N14-N17 NN8				2	1.0	+	—																																																																																			
MIDDLE MIOCENE		A/G				3		+	—																																																																																			
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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							
LOWER MIOCENE	N5-N7				A/G	A/G	Barren	Barren	Barren	Barren	Barren
	NN7										
MIDDLE MIOCENE	N8				A/G	A/G	Barren	Barren	Barren	Barren	Barren
	N8										
					0.5						
					1.0						
					1.5						
					2.0						
					2.5						
					3.0						
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					13.0						
					13.5						
					14.0						
					14.5						
					15.0						

NANNOFOSSIL OOZE WITH FORAMINIFERS

Major lithology: NANNOFOSSIL OOZE with FORAMINIFERS, light gray (2.5Y 7/2, 10YR 7/2), darkening downcore to light brownish gray (10YR 6/2) with white (10YR 8/2) mottles, clay content to 5%. Dark grayish brown (10YR 4/2) and black speckles are clay- and pyrite-rich, in Sections 3, 7, and CC. Core is moderately disturbed.

Minor lithology: Foraminifer nannofossil ooze, minor increase in foraminifer abundance, not visibly distinguishable.

SMEAR SLIDE SUMMARY (%):

	1, 61	1, 77	2, 68	2, 117	3, 80	3, 142	5, 61
	M	D	D	M	D	M	D

COMPOSITION:

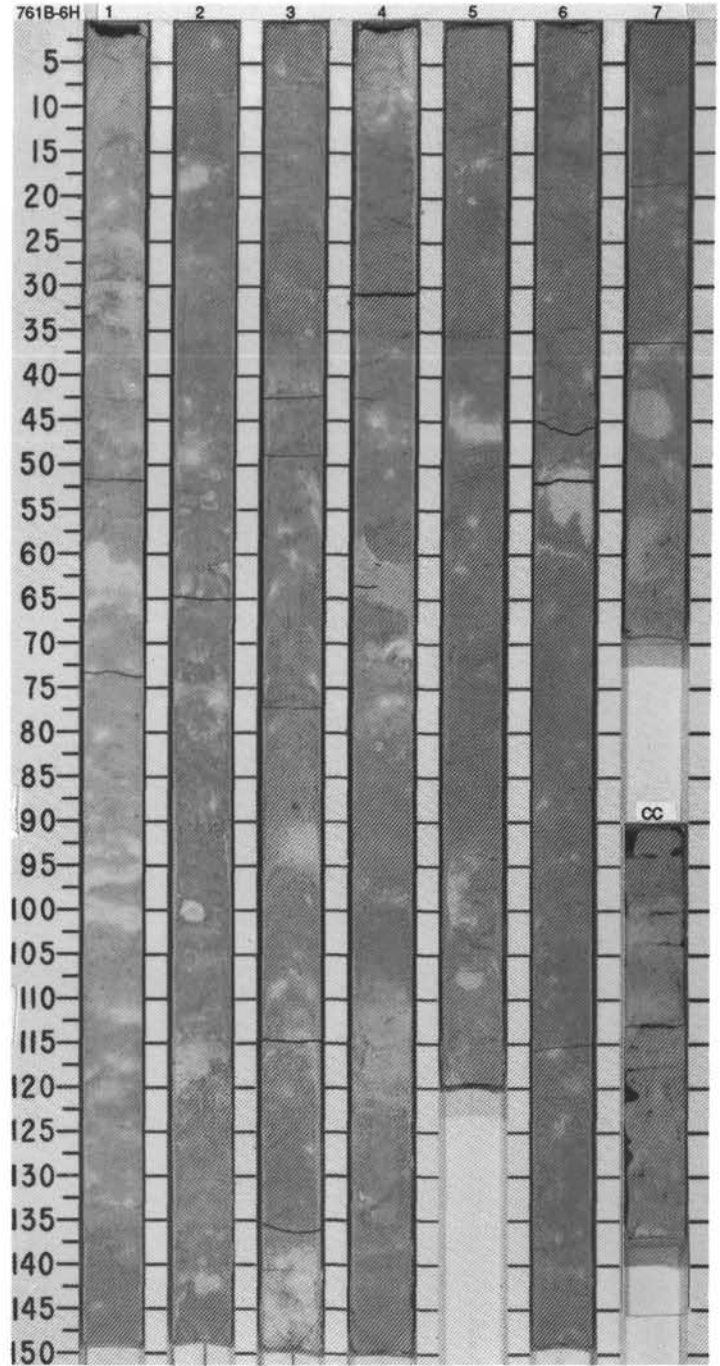
Clay	5	5	5	5	—	5	—
Dolomite	—	—	—	—	5	Tr	—
Feldspar	Tr	Tr	Tr	Tr	Tr	Tr	—
Foraminifers	30	20	15	20	20	10	25
Nannofossils	65	75	80	75	75	83	75
Spicules	—	—	—	—	Tr	2	—

SMEAR SLIDE SUMMARY (%):

	6, 86
	D

COMPOSITION:

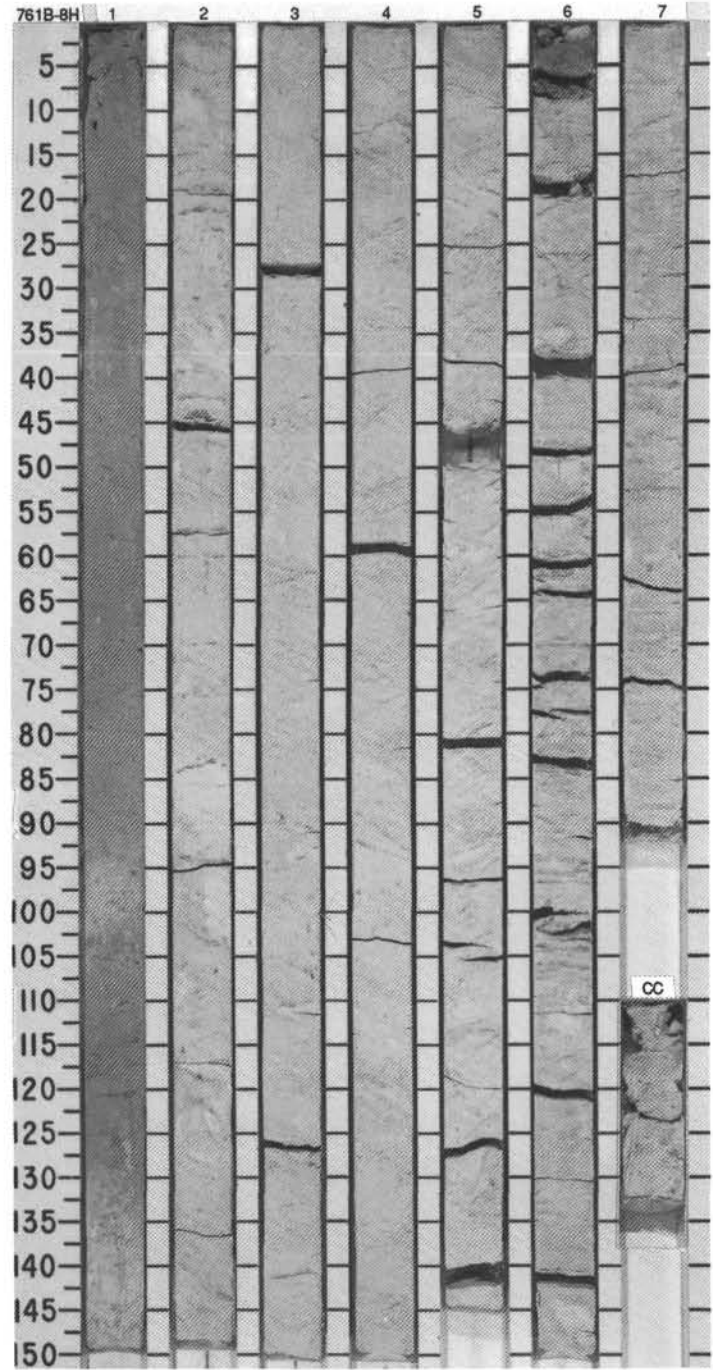
Clay	7
Foraminifers	30
Nannofossils	63





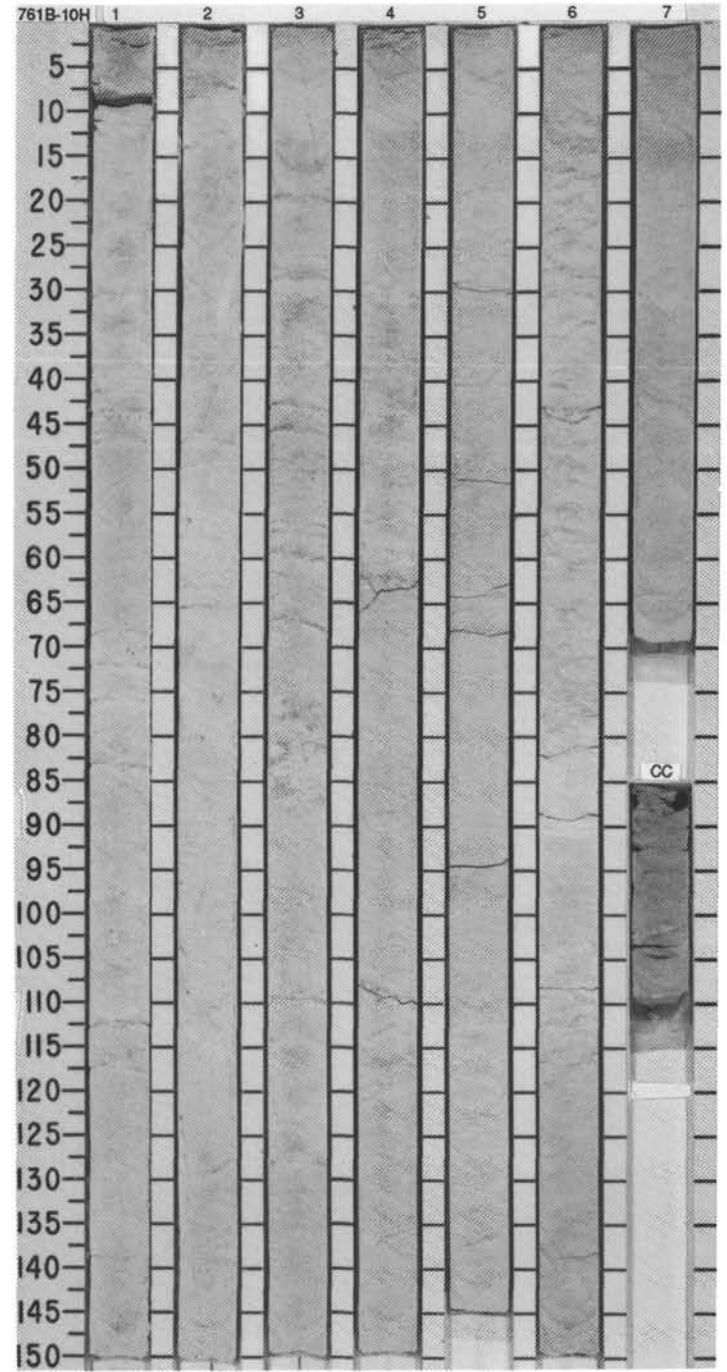


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PHYS. PROPERTIES	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																											
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALYNOMORPHS									PALEOMAGNETICS																																																																																																										
UPPER OLIGOCENE	A/G	P21					1	0.5			*	<p>NANNOFOSSIL OOZE WITH FORAMINIFERS AND NANNOFOSSIL OOZE</p> <p>Major lithology: NANNOFOSSIL OOZE with FORAMINIFERS, very pale brown (10YR 7/3), Section 1, 0-138 cm, homogeneous to slightly bioturbated, nearly 20% foraminifers. NANNOFOSSIL OOZE with FORAMINIFERS and NANNOFOSSIL OOZE, Section 1, 138 cm to Section 5, 0 cm, white (10YR 8/2), homogeneous to moderately bioturbated, 7% to 13% foraminifers. Minor clay (&lt;5%), and a few pale shadowed zones (due to diffuse opaque clay-size minerals such as pyrite) also present. This NANNOFOSSIL OOZE, light gray (2.5Y 7/4), shadowed and mottled by bioturbation, foraminifers &lt;5%, Section 6, 8 cm through CC.</p> <p>Minor lithology: Clayey nannofossil ooze, very pale brown (10YR 7/4), Section 6, 2-10 cm, interbedded, 40% clay.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 70</td> <td>2, 74</td> <td>3, 99</td> <td>4, 65</td> <td>5, 60</td> <td>6, 4</td> <td>6, 58</td> </tr> <tr> <td></td> <td>D</td> <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>Accessory minerals</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>1</td> <td>—</td> </tr> <tr> <td>Biotlast</td> <td>5</td> <td>2</td> <td>1</td> <td>2</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>4</td> <td>—</td> <td>3</td> <td>2</td> <td>5</td> <td>40</td> <td>5</td> </tr> <tr> <td>Feldspar</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Foraminifers</td> <td>18</td> <td>12</td> <td>7</td> <td>13</td> <td>10</td> <td>3</td> <td>3</td> </tr> <tr> <td>Mica</td> <td>3</td> <td>Tr</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>70</td> <td>86</td> <td>89</td> <td>83</td> <td>85</td> <td>55</td> <td>92</td> </tr> <tr> <td>Quartz</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Zircon</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> </table> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>7, 60</td> </tr> <tr> <td></td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>5</td> </tr> <tr> <td>Feldspar</td> <td>Tr</td> </tr> <tr> <td>Foraminifers</td> <td>5</td> </tr> <tr> <td>Nannofossils</td> <td>90</td> </tr> </table>		1, 70	2, 74	3, 99	4, 65	5, 60	6, 4	6, 58		D	D	D	D	D	M	D	Accessory minerals	—	—	—	—	—	1	—	Biotlast	5	2	1	2	—	—	—	Clay	4	—	3	2	5	40	5	Feldspar	—	—	—	Tr	Tr	Tr	Tr	Foraminifers	18	12	7	13	10	3	3	Mica	3	Tr	—	Tr	—	—	—	Nannofossils	70	86	89	83	85	55	92	Quartz	Tr	—	—	—	—	—	—	Radiolarians	Tr	Tr	Tr	—	—	—	—	Zircon	—	—	Tr	—	—	—	—		7, 60		D	Clay	5	Feldspar	Tr	Foraminifers	5	Nannofossils	90
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Nannofossils	90																																																																																																																							
MIDDLE EOCENE	P11-P12						2	1.0			*																																																																																																													
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TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION							
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS													
	PALEOMAGNETICS																
MIDDLE EOCENE	P9-P10	NP15			● $\delta_{1.5}^1$ V-1.556 ● $\delta_{1.75}^1$ V-1.75 ● CaCO <sub>3</sub> =91.0%				NANNOFOSSIL OOZE Major lithology: NANNOFOSSIL OOZE, white (10YR 8/2), becoming pale brown (10YR 8/3), Section 7 and CC. Structureless, except for bioturbation (middle of Sections 2 and 3). SMEAR SLIDE SUMMARY (%): <table border="1"> <tr> <td></td> <td>1, 70</td> <td>3, 50</td> <td>7, 20</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> COMPOSITION: Accessory minerals — Tr — Clay 7 — — Foraminifers 3 5 5 Nannofossils 90 95 95		1, 70	3, 50	7, 20		D	D	D
	1, 70	3, 50	7, 20														
	D	D	D														
A/G					● $\delta_{1.5}^1$ V-1.756 ● $\delta_{1.75}^1$ V-1.756 ● CaCO <sub>3</sub> =86.8% TOC=0.01%												
A/M																	
B																	
Barren																	
Barren																	
CC																	









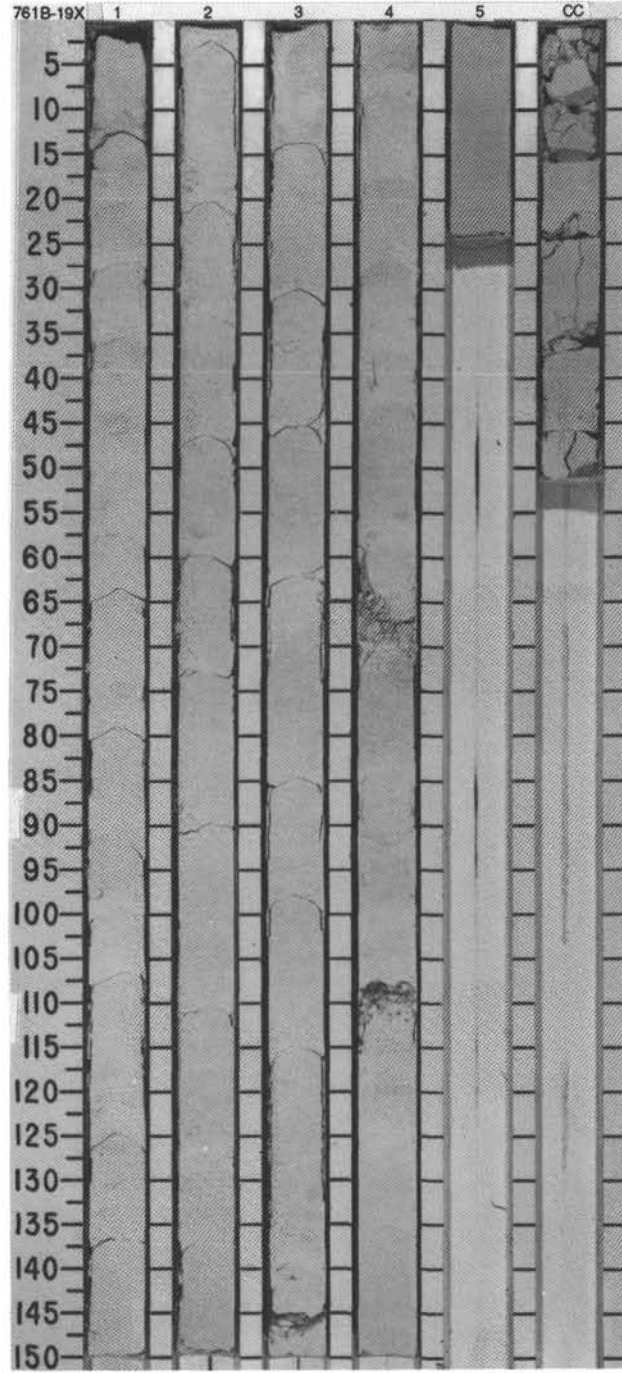






SITE 761 HOLE B CORE 19X CORED INTERVAL 151.2-160.7 mbsf

TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER	LITHOLOGIC DESCRIPTION																																						
FORAMINIFERS	NANNOFOSSILS																																								
LOWER PALEOCENE		P3 NP4	NANNOFOSSIL CHALK AND NANNOFOSSIL CHALK WITH FORAMINIFERS  Major lithologies: NANNOFOSSIL CHALK, NANNOFOSSIL CHALK with FORAMINIFERS, white (10YR 8/1), minor clay and muscovite, with traces of zeolites, bioclasts radiolarians, and sponge spicules. Mottles and burrows are common, burrows, gently inclined, 2-4 mm across.  Minor lithology: Chert, pale brown (10YR 6/3), diagenetic. Section 4, 100 cm.  THIN SECTION SUMMARY (%): <table border="1"> <tr> <td>1,70</td> <td>3,70</td> <td>CC,20</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table>  COMPOSITION: <table border="1"> <tr> <td>Bioclast</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>5</td> <td>5</td> <td>5</td> </tr> <tr> <td>Foraminifers</td> <td>3</td> <td>15</td> <td>5</td> </tr> <tr> <td>Mica</td> <td>Tr</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Nannofossils</td> <td>91</td> <td>79</td> <td>90</td> </tr> <tr> <td>Radiolarians</td> <td>1</td> <td>—</td> <td>—</td> </tr> <tr> <td>Spicules</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Zeolite</td> <td>—</td> <td>Tr</td> <td>Tr</td> </tr> </table>	1,70	3,70	CC,20	D	D	D	Bioclast	—	—	Tr	Clay	5	5	5	Foraminifers	3	15	5	Mica	Tr	1	Tr	Nannofossils	91	79	90	Radiolarians	1	—	—	Spicules	Tr	—	—	Zeolite	—	Tr	Tr
1,70	3,70			CC,20																																					
D	D	D																																							
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Radiolarians	1	—	—																																						
Spicules	Tr	—	—																																						
Zeolite	—	Tr	Tr																																						
LOWER PALEOCENE		?																																							
Barten																																									
PALEOMAGNETICS																																									
PHYS. PROPERTIES		● 51.7 V-1.673																																							
CHEMISTRY		● CaCO <sub>3</sub> =88.9% TOC=0.01%																																							
SECTION	METERS																																								
1	0.5																																								
2	1.0																																								
3																																									
4																																									
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CC																																									
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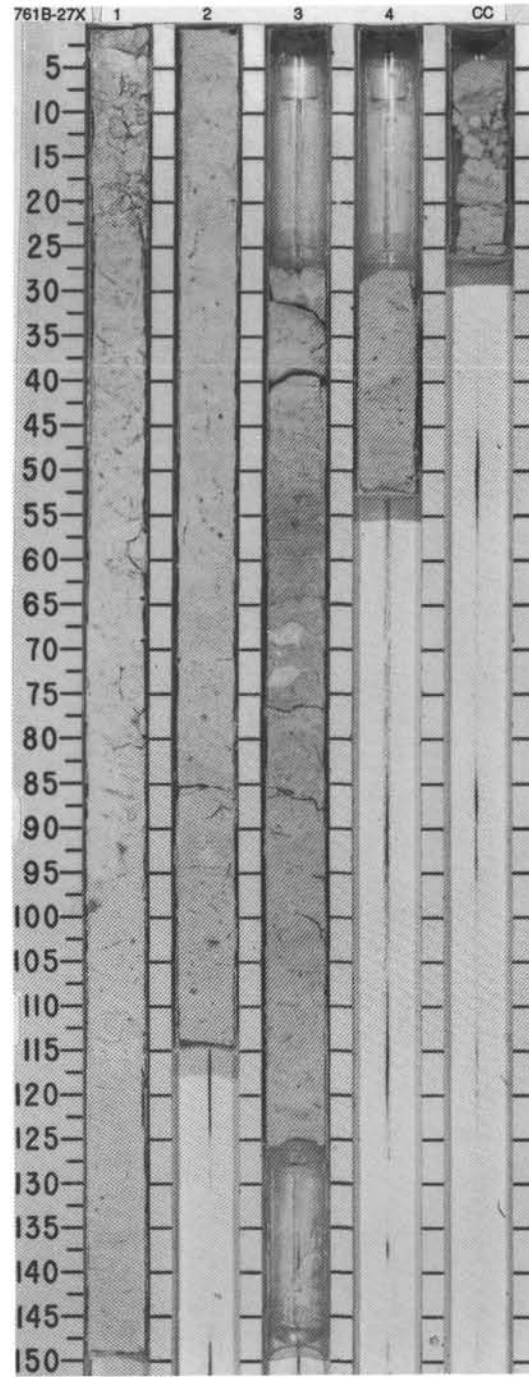






SITE 761 HOLE B CORE 27X CORED INTERVAL 227.2-236.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLER	LITHOLOGIC DESCRIPTION																
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																						
CONIACIAN - LOWER SANTONIAN	A/M	UPPER TURONIAN - CONIACIAN								<p>NANNOFOSSIL CHALK</p> <p>Major lithology: NANNOFOSSIL CHALK, white (5YR 8/1), containing broken and scattered <i>Inoceramus</i>(?) and calcareous rock fragments: common bloturbation marked by a dark colored staining and/or infilling and mottling. Drilling disturbance high.</p> <p>Minor lithology: Nannofossil chalk with foraminifers, white (10YR 8/1), Section 3, 65-70 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 70</td> <td>3, 67</td> <td>3, 107</td> </tr> <tr> <td></td> <td>D</td> <td>M</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Foraminifers</td> <td>—</td> <td>10</td> <td>3</td> </tr> <tr> <td>Nannofossils</td> <td>100</td> <td>90</td> <td>97</td> </tr> </table>		1, 70	3, 67	3, 107		D	M	D	Foraminifers	—	10	3	Nannofossils	100	90	97
		1, 70	3, 67	3, 107																						
	D	M	D																							
Foraminifers	—	10	3																							
Nannofossils	100	90	97																							
UPPER TURONIAN - CONIACIAN	A/M	CC14 - CC15			1																					
Barren	A/M	CC11 - CC13	CC16 - CC17J		2																					
Barren			UPPER SANTONIAN		3	VOID																				
(TURONIAN)					4	VOID																				
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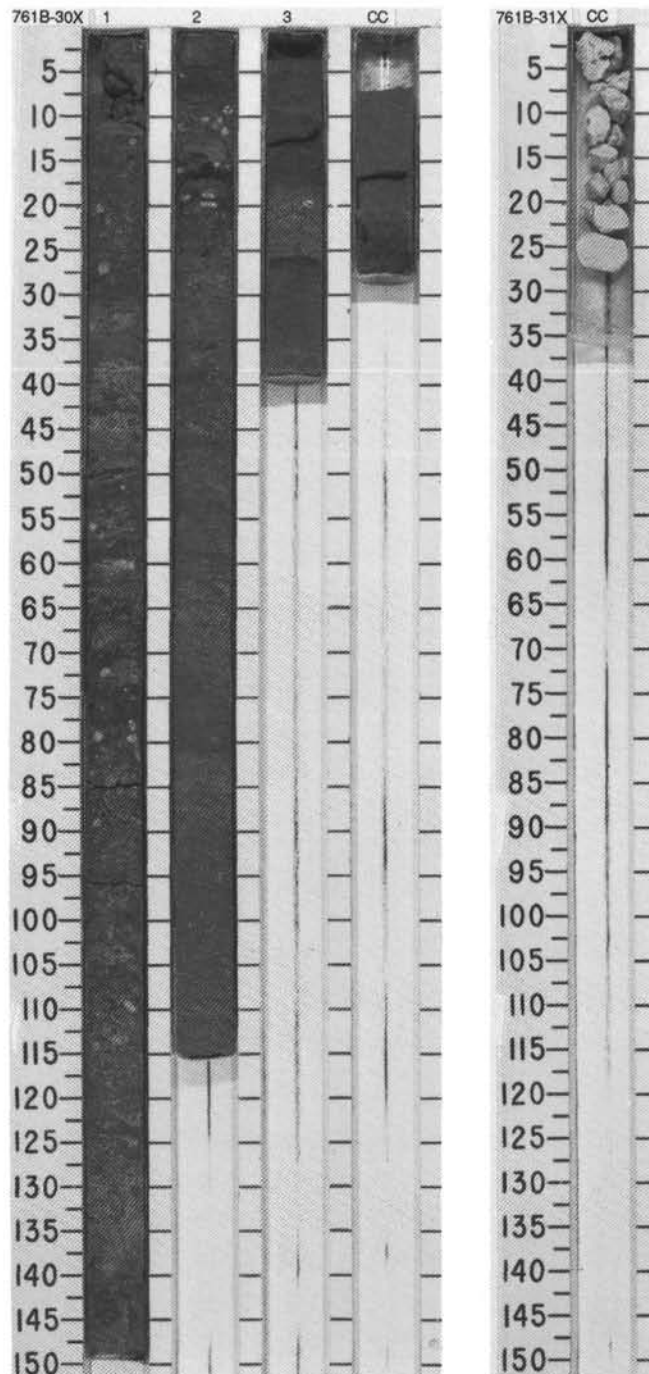


SITE 761 HOLE B CORE 30X CORED INTERVAL 254.2-263.7 mbsf

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																																																																										
NEOCOMIAN ?	Barren	Barren	Barren	Barren		V-1.766 ● V-1.708 ● V-1.683 ● CaCO <sub>3</sub> 4.6%		1 2 3 CC	0.5 1.0					<p>SILTY SANDSTONE</p> <p>Major lithology: SILTY SANDSTONE, convoluted and predominantly yellowish brown (10YR 5/5) and including white (10YR 8/2) clayey layers, generally poorly sorted. Includes about 40% nannofossils, belemnites, Section 1, 0-150 cm, Section 2, 0-38 cm, and Section 3, 10-28 cm. Molluscan shell fragments observed in Section 1, 80-135 cm. The remainder of the silty sandstone is composed of siliciclastic detritus and is weakly parallel laminated, yellowish brown (10YR 5/8).</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 47</td> <td>2, 100</td> <td>3, 25</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>50</td> <td>60</td> <td>60</td> </tr> <tr> <td>Silt</td> <td>10</td> <td>40</td> <td>40</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>—</td> <td>2</td> <td>15</td> </tr> <tr> <td>Feldspar</td> <td>15</td> <td>15</td> <td>5</td> </tr> <tr> <td>Fish</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>—</td> <td>—</td> <td>5</td> </tr> <tr> <td>Nannofossils</td> <td>40</td> <td>—</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>30</td> <td>70</td> <td>60</td> </tr> <tr> <td>Rock fragment</td> <td>10</td> <td>13</td> <td>10</td> </tr> <tr> <td>Phosphate</td> <td>5</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Mn oxide</td> <td>—</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Zeolite</td> <td>—</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Fish scales</td> <td>—</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Dolomite</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> </table>		1, 47	2, 100	3, 25		D	D	M	Sand	50	60	60	Silt	10	40	40	Accessory minerals	—	2	15	Feldspar	15	15	5	Fish	—	—	—	Mica	—	—	5	Nannofossils	40	—	—	Quartz	30	70	60	Rock fragment	10	13	10	Phosphate	5	Tr	Tr	Mn oxide	—	Tr	Tr	Zeolite	—	Tr	Tr	Fish scales	—	Tr	—	Dolomite	—	—	Tr
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SITE 761 HOLE B CORE 31X CORED INTERVAL 263.7-273.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																										
RHAETIAN	Indeterminate	Barren	Barren	Barren		V-4.87 ● V-4.83 ● V-4.82 ● CaCO <sub>3</sub> 98.5%		CC						<p>CARBONATE WACKESTONES AND GRAINSTONE</p> <p>Major lithologies:</p> <p>CARBONATE WACKESTONES, very pale brown (10YR 8/2), containing shell fragments and fossil casts and molds; common moldic and vuggy porosity, probably due to dissolution under atmospheric conditions. Some large cavity filling sparry calcite is observed.</p> <p>CARBONATE GRAINSTONE, composed of oolites, peloids, and bioclasts; very pale brown (10YR 8/3).</p> <p>THIN SECTION SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>CC, 8</td> </tr> <tr> <td></td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Dolomite</td> <td>1</td> </tr> <tr> <td>Micrite</td> <td>50</td> </tr> <tr> <td>Mollusk</td> <td>6</td> </tr> <tr> <td>Other</td> <td>11</td> </tr> <tr> <td>Peloids</td> <td>30</td> </tr> <tr> <td>Spar cement</td> <td>2</td> </tr> </table>		CC, 8		D	Dolomite	1	Micrite	50	Mollusk	6	Other	11	Peloids	30	Spar cement	2
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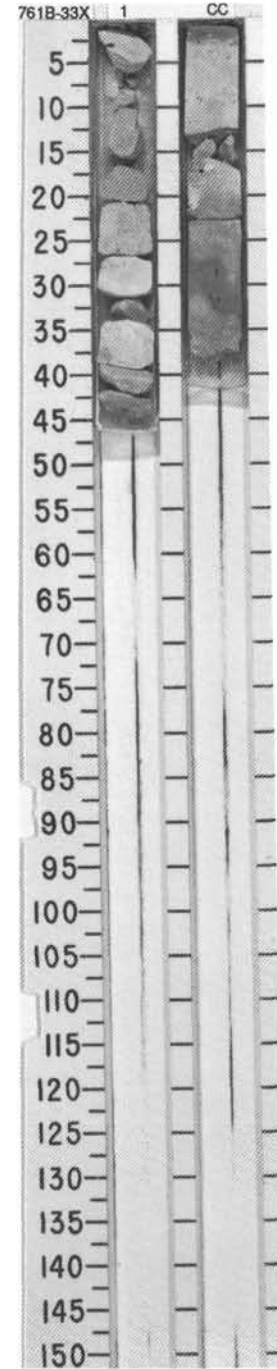
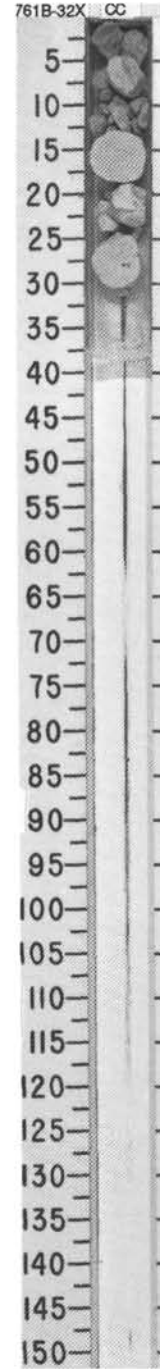


SITE 761 HOLE B CORE 32X CORED INTERVAL 273.2-282.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	FORAMINIFERS	MAMMOFOSSILS	RADIOLARIANS	DIATOMS	PALYNOMORPHS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION												
RHAETIAN	<i>Triasina hanitkeni</i> ?	Barren	Barren	Barren	Barren			V-3.941 0.22.3 P-2.2.2 CACO-98.4%		CC		[Lithology symbols]	[Disturbance symbols]	[Structure symbols]	#	<p>CARBONATE WACKESTONES AND PACKSTONE</p> <p>Major lithology: CARBONATE WACKESTONES, very pale brown (10YR 8/4) and pinkish white (5YR 8/2), containing bioclasts and pellets, may be dolomitic in part, common moldic and vuggy porosity. CARBONATE PACKSTONE, very pale brown (10YR 8/4) with common moldic and vuggy porosity, may contain pellets, peloids, and bioclasts.</p> <p>THIN SECTION SUMMARY (%):</p> <table border="0"> <tr> <td>CC, 21</td> <td></td> </tr> <tr> <td>D</td> <td></td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Echinoid</td> <td>5</td> </tr> <tr> <td>Foraminifers</td> <td>15</td> </tr> <tr> <td>Pellets</td> <td>60</td> </tr> <tr> <td>Spar cement</td> <td>20</td> </tr> </table>	CC, 21		D		Echinoid	5	Foraminifers	15	Pellets	60	Spar cement	20
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SITE 761 HOLE B CORE 33X CORED INTERVAL 282.7-286.7 mbsf

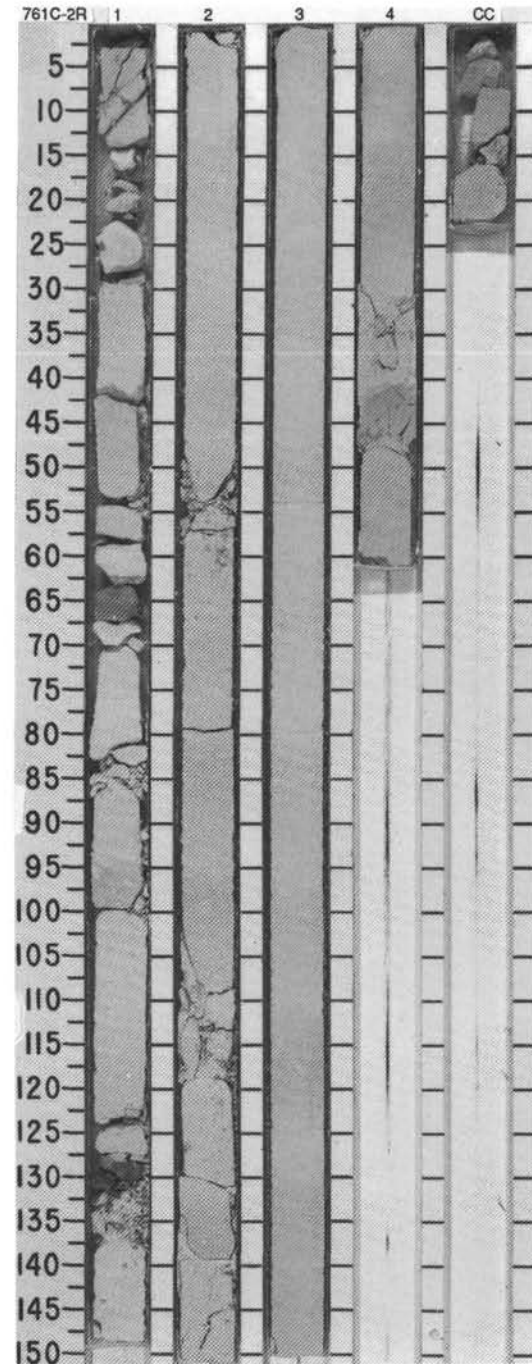
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	FORAMINIFERS	MAMMOFOSSILS	RADIOLARIANS	DIATOMS	PALYNOMORPHS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																
RHAETIAN	<i>Triasina hanitkeni</i> ?	Barren	Barren	Barren	Barren			V-4.394 0.25.3 P-2.2.2 CACO-93.8% TOC-0.03%		1 CC		[Lithology symbols]	[Disturbance symbols]	[Structure symbols]	#	<p>NERITIC CARBONATES</p> <p>Major lithologies:</p> <p>A variety of very shallow to emergent carbonate facies including: OOLITIC GRAINSTONES, very pale brown (10YR 7/4), well sorted, very strongly dissolved. Only the external cortex is preserved and pores show calcite and (rare) dolomite crystallization. Section 1, 10-30 cm. OOLITIC AND SKELETAL PACKSTONES, pink (5YR 7/3). Section 1, 30-41 cm; pale brown, (10YR 6/3). CC 25-40 cm. Elements are generally completely dissolved but mud is preserved. SKELETAL WACKESTONE WITH MOLLUSCS AND FORAMINIFERS. CC, 18-23 cm. Foraminifers are <i>Triasina Hanitkeni</i>. CALCAREOUS MUDSTONE, pink (5YR 7/3). CC, 3-13 cm, with cavities (birds-eye and roots) occurs in core catcher (3-13 cm). ALGAL LAMINAE, red (2.5YR 4/6). Section 1, 42-46 cm, with flat pebbles (desiccation).</p> <p>THIN SECTION SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>1, 4</td> <td>1, 41</td> <td>1, 44</td> <td>CC, 1</td> <td>CC, 10</td> <td>CC, 17</td> <td>CC, 36</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="0"> <tr> <td>Cast</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>15</td> <td>—</td> <td>—</td> </tr> <tr> <td>Dolomite</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>5</td> <td>90</td> <td>—</td> </tr> <tr> <td>Echinoid</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>5</td> <td>—</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>15</td> <td>—</td> <td>—</td> <td>—</td> <td>10</td> <td>10</td> <td>—</td> </tr> <tr> <td>Micrite</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>25</td> <td>—</td> <td>—</td> </tr> <tr> <td>Mollusk</td> <td>10</td> <td>—</td> <td>—</td> <td>—</td> <td>10</td> <td>—</td> <td>—</td> </tr> <tr> <td>Other</td> <td>5</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Pellets</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>15</td> <td>—</td> <td>—</td> </tr> <tr> <td>Peloids</td> <td>35</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Spar cement</td> <td>35</td> <td>—</td> <td>—</td> <td>—</td> <td>15</td> <td>—</td> <td>—</td> </tr> </table>		1, 4	1, 41	1, 44	CC, 1	CC, 10	CC, 17	CC, 36		D	D	D	D	D	D	D	Cast	—	—	—	—	15	—	—	Dolomite	Tr	—	—	—	5	90	—	Echinoid	—	—	—	—	5	—	—	Foraminifers	15	—	—	—	10	10	—	Micrite	—	—	—	—	25	—	—	Mollusk	10	—	—	—	10	—	—	Other	5	—	—	—	—	—	—	Pellets	—	—	—	—	15	—	—	Peloids	35	—	—	—	—	—	—	Spar cement	35	—	—	—	15	—	—
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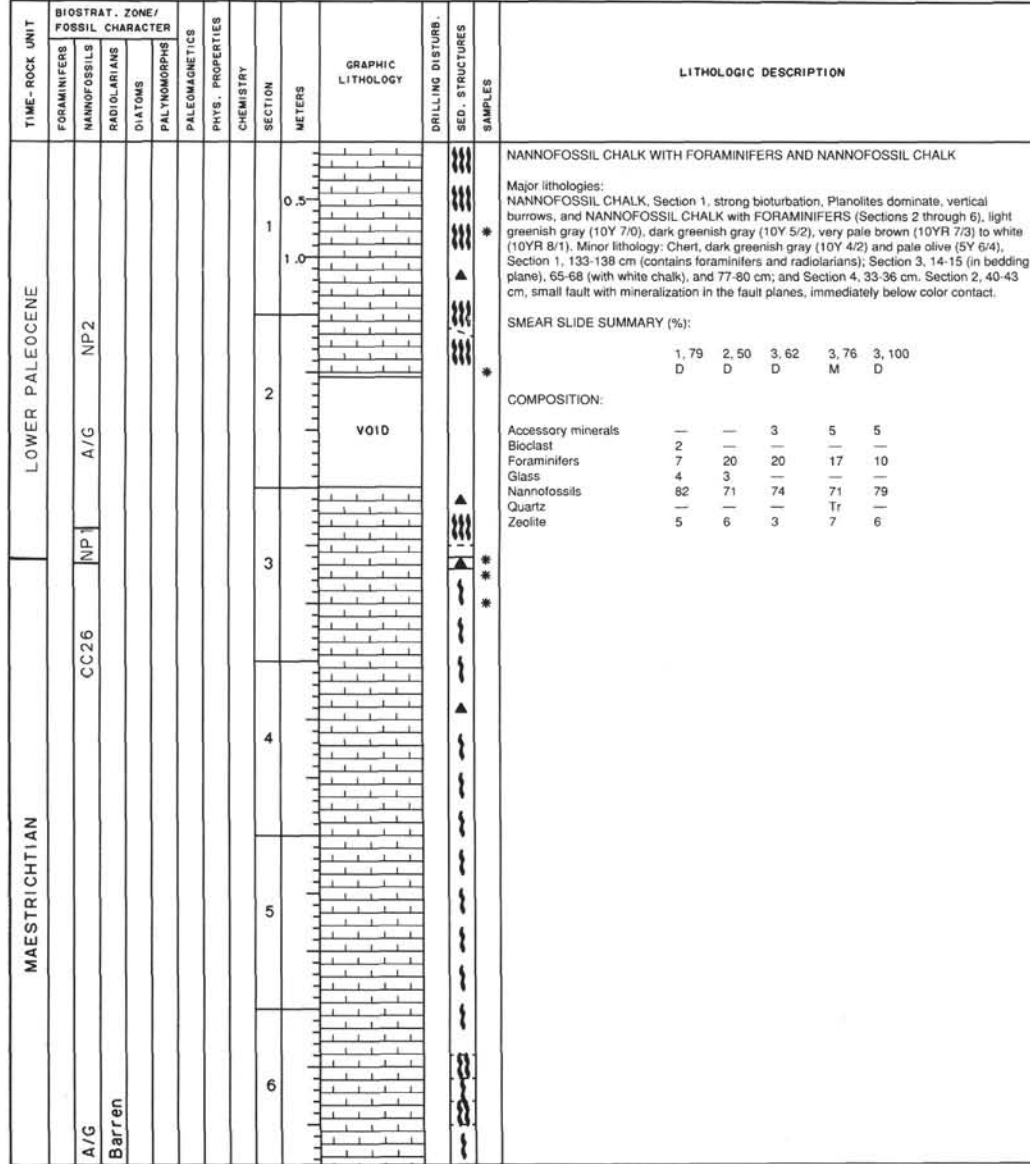
CORE 761C-1C NO RECOVERY

SITE 761 HOLE C CORE 2R CORED INTERVAL 160.2-169.7 mbsf

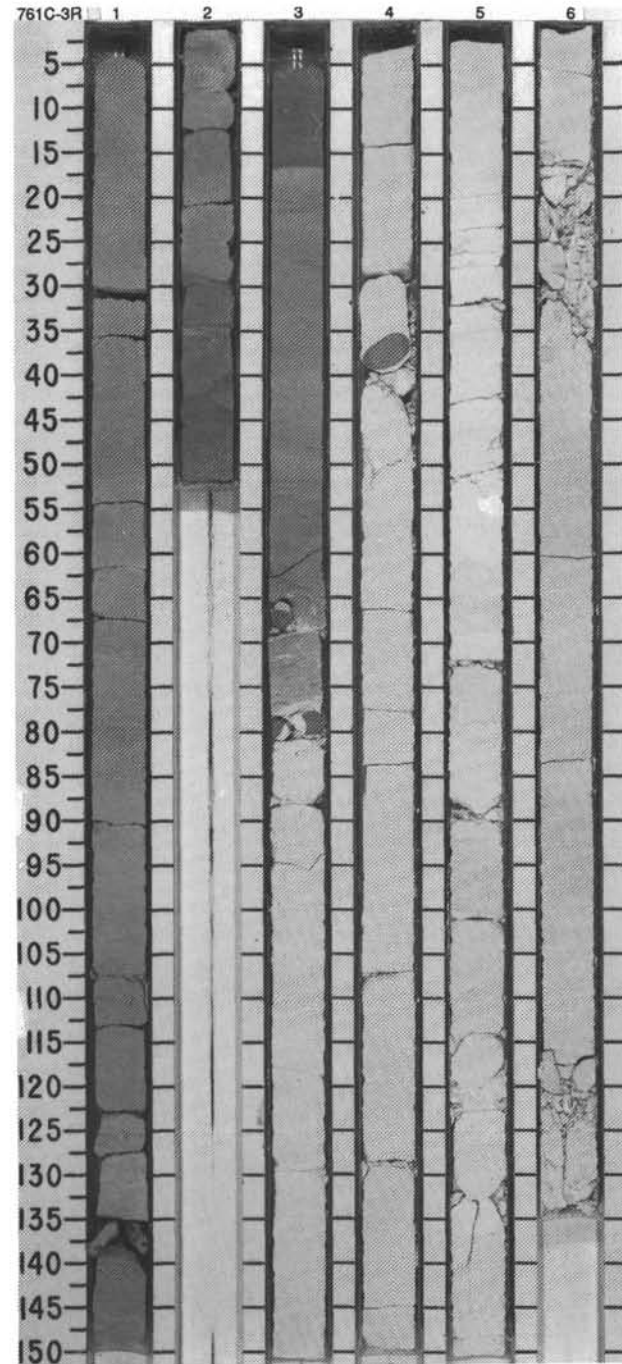
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																													
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIA TOMS																																																																																							
LOWER PALEOCENE	MIDDLE - LOWER PALEOCENE							1	0.5					<p>NANNOFOSSIL CHALK WITH FORAMINIFERS, FORAMINIFER NANNOFOSSIL CHALK, AND NANNOFOSSIL CHALK</p> <p>Major lithologies: NANNOFOSSIL CHALK with FORAMINIFERS, gradational to NANNOFOSSIL CHALK and FORAMINIFER NANNOFOSSIL CHALK, white (10YR 8/2, 10YR 8/1) with minor (5-15 cm thick) light gray (10YR 7/2 to 2.5Y 7/2) white (2.5Y 8/2) and light gray (2.5 7/2) color bands. Bioturbation slightly more prominent in light gray than white bands. Color grades downward towards more greenish hues. Section 4, 43 cm through CC, light gray (5Y 7/1). Zeolites increase in abundance from Section 2 to 4. Section 4, 43 cm, sharp color contact between white (2.5Y 8/2) above and light gray (5Y 7/1) below.</p> <p>Minor lithology: Nodular chert, pale brown (10YR 6/3), Section 1, 14-24 cm (small broken fragments of chert and silicified chalk), 61-67 cm (nodular chert up to 3 X 5 cm nodule), and 127-132 cm (cherty horizon). Chalk immediately above and below chert is harder than chalk elsewhere, thus presumably partially silicified.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 46</td> <td>1, 97</td> <td>2, 41</td> <td>3, 80</td> <td>4, 17</td> <td>4, 50</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>M</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Bioclast</td> <td>7</td> <td>3</td> <td>3</td> <td>3</td> <td>2</td> <td>3</td> </tr> <tr> <td>Clay</td> <td>2</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Feldspar</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Fish</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Foraminifers</td> <td>8</td> <td>20</td> <td>21</td> <td>33</td> <td>20</td> <td>21</td> </tr> <tr> <td>Mica</td> <td>Tr</td> <td>Tr</td> <td>—</td> <td>—</td> <td>Tr</td> <td>1</td> </tr> <tr> <td>Nannofossils</td> <td>83</td> <td>69</td> <td>73</td> <td>58</td> <td>71</td> <td>66</td> </tr> <tr> <td>Quartz</td> <td>—</td> <td>Tr</td> <td>1</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Zeolite</td> <td>5</td> <td>8</td> <td>2</td> <td>6</td> <td>7</td> <td>9</td> </tr> </table>		1, 46	1, 97	2, 41	3, 80	4, 17	4, 50		D	D	D	D	D	M	Bioclast	7	3	3	3	2	3	Clay	2	—	—	—	—	—	Feldspar	—	—	—	Tr	—	—	Fish	—	Tr	—	—	—	Tr	Foraminifers	8	20	21	33	20	21	Mica	Tr	Tr	—	—	Tr	1	Nannofossils	83	69	73	58	71	66	Quartz	—	Tr	1	—	—	—	Zeolite	5	8	2	6	7	9
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SITE 761 HOLE C CORE 3R CORED INTERVAL 169.7-179.2 mbsf



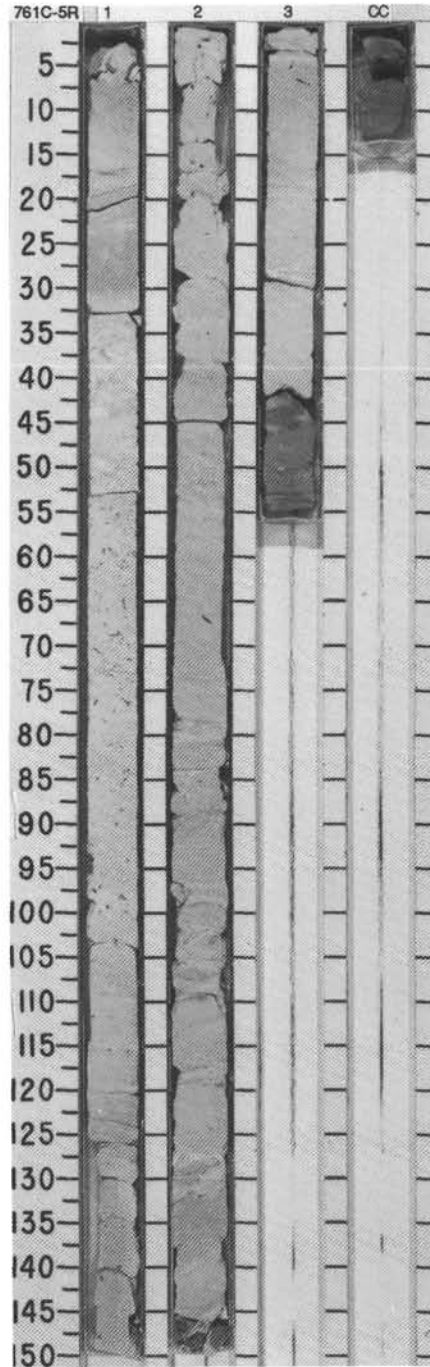
CORE 761C-4C NO RECOVERY



TIME-ROCK UNIT		BIGSTRAT. ZONE/ FOSSIL CHARACTER	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
UPPER ALBIAN - TURONIAN	SANTONIAN								
C/G	ALBIAN - CENOMANIAN	TURONIAN ?	1	0.5	[Lithology symbols]	[Disturbance symbols]	[Structure symbols]	[Sample symbols]	<p><b>NANNOFOSSIL CHALK</b></p> <p>Major lithology: NANNOFOSSIL CHALK, white (10YR 8/2) to light gray (10YR 7/2) or very pale brown (10YR 7/3 to 10YR 8/3). Bioturbated intervals alternate with thin structureless intervals (&lt;15 cm) and with thin intervals of disturbed laminae (&lt;10 cm). Section 1, 7-15, 16-19, 21-24, 33-53, and 107-115 cm, Mn streaks occur within disturbed laminae. Section 1, 53-107 cm, Mn speckled, burrowed, and bioturbated. Sections 2 and 3, massive and bioturbated intervals dominate.</p> <p>Minor lithologies:                      a. Foraminifer nannofossil chalk, pale brown (10YR 6/3) to brown (10YR 5/3) Section 3, 43-56, and CC, 5-14 cm, laminated. Burrowing disrupts and partially masks the primary sedimentary structures (burrows to 1 cm X 1.5 cm). Sharp color change at top of lithology, pale brown (10YR 6/3) below to white (10YR 8/2) above.                      b. Chert, Section 2, 147-150 cm, Section 3, 0-2 cm, and CC, 0-5 cm. Mottled brown (10YR 4/3) and reddish brown (2.5YR 5/4), contains abundant calcareous shell fragments and foraminifers Section 1, 135 cm, Inoceramus prism.</p>
A/P	CC9 - CC10								
	MIDDLE - UPPER CENOMANIAN		2	1.0	[Lithology symbols]	[Disturbance symbols]	[Structure symbols]	[Sample symbols]	
	Barren		3	CC	[Lithology symbols]	[Disturbance symbols]	[Structure symbols]	[Sample symbols]	

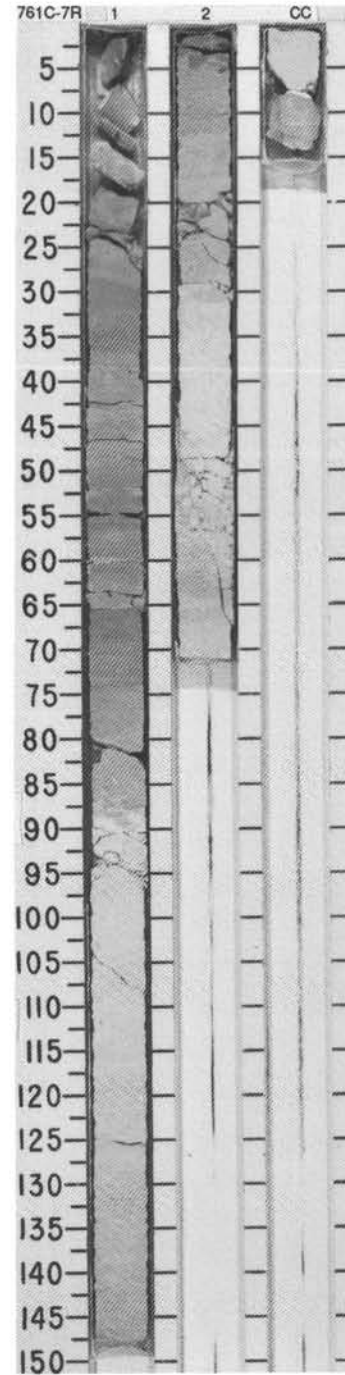
	1, 25 D	1, 84 D	2, 139 D	3, 45 D	3, 52 M	3, 53 D	CC, 1 D
COMPOSITION:							
Bioclast	6	4	2	15	---	---	---
Carbonate	12	14	9	7	---	---	---
Clay	3	5	---	---	5	---	---
Feldspar	---	---	---	2	---	---	---
Foraminifers	6	8	7	28	---	20	20
Matrix	---	---	---	---	---	---	25
Mica	Tr	---	---	Tr	---	---	---
Micrite	---	---	---	---	5	70	40
Nannofossils	73	69	75	47	---	---	---
Opal	---	---	---	---	60	---	10
Quartz	Tr	---	---	1	---	10	5
Zeolite	---	---	7	---	---	---	---







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																																												
	APTIAN - ALBIAN																																															
	Barren	A/M	Barren																																													
UPPER BERRIASIAN - LOWER VALANGINIAN		NK2 - NK3			V-1 .695 V-2 .023 V-3 1.40 V-4 1.85 V-5 1.64	TOC=0.01% CaCO <sub>3</sub> =0.17%		0.5 1.0				<p>CALICISPHERE NANNOFOSSIL CHALK</p> <p>Major lithology: CALICISPHERE NANNOFOSSIL CHALK, light yellowish brown (2.5YR 6/4), pale brown (10YR 6/3), very pale brown (10YR 7/3), and white (10YR 8/2), bioturbated.</p> <p>Minor lithologies:</p> <p>a. Laminated claystone (smectite), very fine grained, waxy appearance, color banding very pale brown (10YR 7/4) slightly greenish, pale yellow (2.5Y 7/4), and pink (5YR 7/3).</p> <p>b. Radiolarian chert, light gray (2.5Y 7/2), Section 1, 0-24 cm (radiolarian packstone) and CC, 10-16 cm. Entire core is slightly fractured.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 63</td> <td>1, 67</td> <td>2, 40</td> </tr> <tr> <td></td> <td>M</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Clay</td> <td>100</td> <td>—</td> <td>—</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Calcspheres</td> <td>—</td> <td>30</td> <td>40</td> </tr> <tr> <td>Carbonate</td> <td>—</td> <td>30</td> <td>30</td> </tr> <tr> <td>Clay</td> <td>100</td> <td>—</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>Tr</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Nannofossils</td> <td>—</td> <td>40</td> <td>30</td> </tr> <tr> <td>Quartz</td> <td>—</td> <td>Tr</td> <td>Tr</td> </tr> </table>		1, 63	1, 67	2, 40		M	D	D	Clay	100	—	—	Calcspheres	—	30	40	Carbonate	—	30	30	Clay	100	—	—	Mica	Tr	—	Tr	Nannofossils	—	40	30	Quartz	—	Tr	Tr
	1, 63	1, 67	2, 40																																													
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Nannofossils	—	40	30																																													
Quartz	—	Tr	Tr																																													



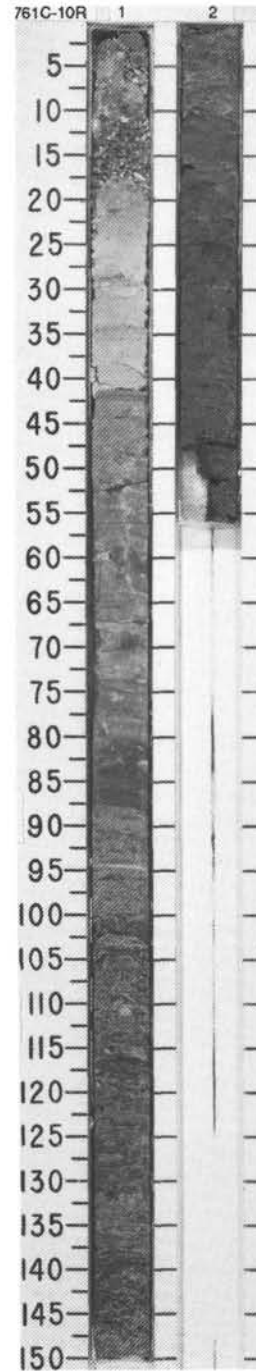




SITE 761 HOLE C CORE 10R CORED INTERVAL 255.0-259.5 mbsf

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																																																																																						
TITHONIAN - LOWER VALANGINIAN										<p>SANDY SILTY CLAYSTONE WITH FORAMINIFERS, CLAYEY SANDSTONE WITH NANNOFOSSILS AND BELEMNITES, AND CLAYEY SANDSTONE</p> <p>Major lithologies: SANDY SILTY CLAYSTONE with NANNOFOSSILS, light yellowish brown (2.5Y 6/4) to light olive brown (2.5Y 5/6). Section 1, 41-100 cm, contains major quartz, rock fragments, and nannofossils, and minor feldspar, mica, dolomite rhombs, glauconite, zeolites, foraminifers, and calcispheres. Thin bedded, regularly laminated and bioturbated, some shelly fragments. CLAYEY SANDSTONE with NANNOFOSSILS and BELEMNITES, dark yellowish brown (10YR 4/6) to very pale brown (10YR 7/3). Section 1, 100-150 cm, Section 2, 0-12 cm, minor components include feldspar, biotite, bioclasts, dolomite rhombs. Many minerals are iron stained. Variably thin bedded, laminated, and extensively bioturbated. CLAYEY SANDSTONE, brown (7.5YR 5/4). Section 2, 12-56 cm, contains minor feldspar, mica, dolomite rhombs, and zeolites, heavily oxidized. Bedding completely disturbed by biscuiting.</p> <p>Minor lithologies: a. Claystone, pink (5YR 7/4) to light brownish gray (10YR 6/2). Section 1, 18-41 cm, homogeneous, waxy appearance, clay is combination of smectite and smectite/ montmorillonite. b. Drilling breccia, Section 1, 0-18 cm, clasts to 2 cm, olive gray very fine grained sandstone, yellow brown chert, calcite vein material.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 30</td> <td>1, 70</td> <td>1, 130</td> <td>2, 30</td> </tr> <tr> <td></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>20</td> <td>60</td> <td>60</td> </tr> <tr> <td>Silt</td> <td>—</td> <td>25</td> <td>5</td> <td>10</td> </tr> <tr> <td>Clay</td> <td>100</td> <td>55</td> <td>30</td> <td>30</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Bioclast</td> <td>—</td> <td>—</td> <td>1</td> <td>—</td> </tr> <tr> <td>Calcispheres</td> <td>—</td> <td>2</td> <td>—</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>100</td> <td>20</td> <td>25</td> <td>30</td> </tr> <tr> <td>Dolomite</td> <td>—</td> <td>1</td> <td>Tr</td> <td>2</td> </tr> <tr> <td>Feldspar</td> <td>—</td> <td>1</td> <td>2</td> <td>2</td> </tr> <tr> <td>Foraminifers</td> <td>—</td> <td>2</td> <td>—</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>—</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Nannofossils</td> <td>—</td> <td>25</td> <td>10</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>—</td> <td>20</td> <td>30</td> <td>35</td> </tr> <tr> <td>Rock fragment</td> <td>—</td> <td>28</td> <td>30</td> <td>26</td> </tr> <tr> <td>Zeolite</td> <td>—</td> <td>—</td> <td>—</td> <td>3</td> </tr> </table>		1, 30	1, 70	1, 130	2, 30		M	D	D	D	Sand	—	20	60	60	Silt	—	25	5	10	Clay	100	55	30	30	Bioclast	—	—	1	—	Calcispheres	—	2	—	—	Clay	100	20	25	30	Dolomite	—	1	Tr	2	Feldspar	—	1	2	2	Foraminifers	—	2	—	—	Mica	—	2	2	2	Nannofossils	—	25	10	—	Quartz	—	20	30	35	Rock fragment	—	28	30	26	Zeolite	—	—	—	3
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CORE 761C-11R NO RECOVERY

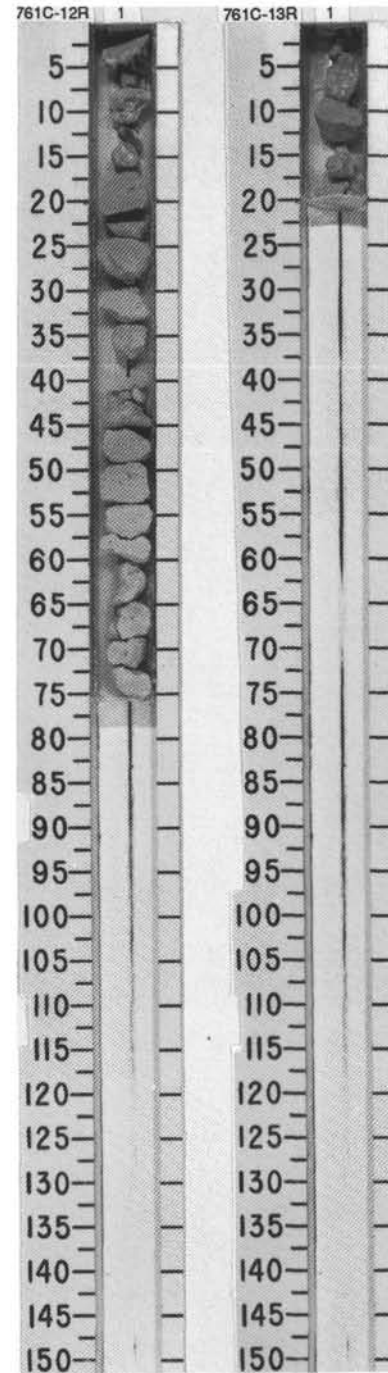


SITE 761 HOLE C CORE 12R CORED INTERVAL 264.5-269.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																	
	FORAMINIFERS	NANOFOSSILS	RADIOLARIANS	DIATOMS	PALYNOMORPHS																																																																											
RHAETIAN	<i>T. hantkeni</i>	Barren					$V_{cl} .069 \phi_{-26.4}$ $CaCO_3 98.67\%$		1					<p>OOLITIC GRAINSTONE WITH DISSEMINATE SHELL FRAGMENTS</p> <p>Major lithology: OOLITIC GRAINSTONE with DISSEMINATED SHELL FRAGMENTS, very pale brown (10YR 8/4), well sorted. Grain cores and intergranular spaces strongly dissolved and partly infilled with calcite. Some laminations (parallel) visible. Large (cm or greater) cavities infilled with several generations of calcite (spar) in some cobbles.</p> <p>Minor lithology: Skeletal packstone, white (10YR 8/1), bioclasts (oolites, shell fragments) dissolved, but mud preserved. Entire core is a drilling breccia.</p> <p>THIN SECTION SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1.2</td> <td>1.8</td> <td>1.16</td> <td>1.52</td> <td>1.73</td> </tr> <tr> <td></td> <td>M</td> <td>M</td> <td>D</td> <td>D</td> <td>M</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Algae</td> <td>2</td> <td>5</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Bioclast</td> <td>30</td> <td>30</td> <td>—</td> <td>—</td> <td>25</td> </tr> <tr> <td>Echinoid spine</td> <td>3</td> <td>3</td> <td>—</td> <td>—</td> <td>2</td> </tr> <tr> <td>Echinoid</td> <td>—</td> <td>—</td> <td>5</td> <td>—</td> <td>—</td> </tr> <tr> <td>Micrite</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>30</td> </tr> <tr> <td>Mollusk</td> <td>—</td> <td>—</td> <td>—</td> <td>10</td> <td>—</td> </tr> <tr> <td>Ooids</td> <td>—</td> <td>—</td> <td>30</td> <td>20</td> <td>—</td> </tr> <tr> <td>Peloids</td> <td>40</td> <td>40</td> <td>5</td> <td>45</td> <td>40</td> </tr> <tr> <td>Spar cement</td> <td>20</td> <td>17</td> <td>30</td> <td>20</td> <td>—</td> </tr> </table>		1.2	1.8	1.16	1.52	1.73		M	M	D	D	M	Algae	2	5	—	—	—	Bioclast	30	30	—	—	25	Echinoid spine	3	3	—	—	2	Echinoid	—	—	5	—	—	Micrite	—	—	—	—	30	Mollusk	—	—	—	10	—	Ooids	—	—	30	20	—	Peloids	40	40	5	45	40	Spar cement	20	17	30	20	—
	1.2	1.8	1.16	1.52	1.73																																																																											
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Peloids	40	40	5	45	40																																																																											
Spar cement	20	17	30	20	—																																																																											

SITE 761 HOLE C CORE 13R CORED INTERVAL 269.5-274.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																			
	FORAMINIFERS	NANOFOSSILS	RADIOLARIANS	DIATOMS	PALYNOMORPHS																																													
RHAETIAN	<i>T. hantkeni</i>	Barren	Barren		Barren				1					<p>OOLITIC GRAINSTONE</p> <p>Major lithology: OOLITIC GRAINSTONE, very pale brown (10YR 8/4), similar to main lithology of Core 122-761C-12R. Sediment is well sorted and strongly dissolved (cortex and intergranular pores). Disseminated cm long shell fragments (broken).</p> <p>THIN SECTION SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1.1</td> <td>1.1</td> <td>1.6</td> </tr> <tr> <td></td> <td>M</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Algae</td> <td>3</td> <td>—</td> <td>—</td> </tr> <tr> <td>Echinoid</td> <td>2</td> <td>—</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>15</td> <td>—</td> <td>40</td> </tr> <tr> <td>Micrite</td> <td>58</td> <td>—</td> <td>—</td> </tr> <tr> <td>Ooids</td> <td>—</td> <td>—</td> <td>35</td> </tr> <tr> <td>Peloids</td> <td>2</td> <td>—</td> <td>—</td> </tr> <tr> <td>Spar cement</td> <td>20</td> <td>—</td> <td>25</td> </tr> </table>		1.1	1.1	1.6		M	D	D	Algae	3	—	—	Echinoid	2	—	—	Foraminifers	15	—	40	Micrite	58	—	—	Ooids	—	—	35	Peloids	2	—	—	Spar cement	20	—	25
	1.1	1.1	1.6																																															
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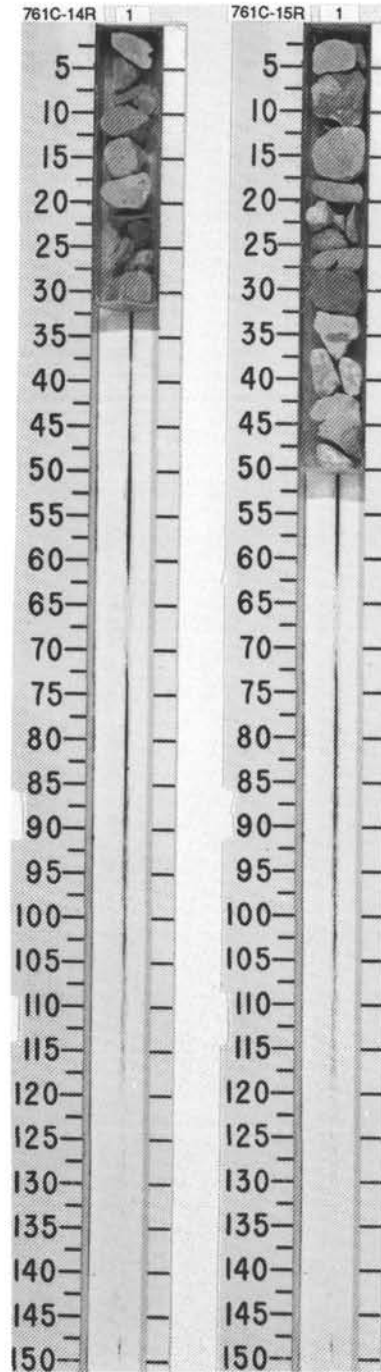


SITE 761 HOLE C CORE 14R CORED INTERVAL 274.5-279.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																								
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALYNOMORPHS																																															
RHAETIAN	<i>T. hanfkeni</i>	Barren			Barren	1						<p>SKELETAL PELOIDAL PACKSTONE</p> <p>Major lithology: SKELETAL PELOIDAL PACKSTONE, white (5YR 8/1) to light gray (5YR 7/1) or pinkish gray (5YR 7/2), recrystallized with moldic porosity, fossil fragments partially replaced by sparry calcite.</p> <p>Minor lithology: Carbonate wackestone with algal laminations, white (10YR 8/2), 2 pieces (Section 1, 25-27 cm), banded, partially dolomitized, yellowish-brown (10YR 5/6) blebs or layers up to 5 mm thick infill desiccation fracture.</p> <p>THIN SECTION SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 10</td> <td>1, 15</td> <td>1, 27</td> </tr> <tr> <td>D</td> <td></td> <td>D</td> <td>M</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Algae</td> <td>10</td> <td>—</td> <td>—</td> </tr> <tr> <td>Bioclast</td> <td>30</td> <td>25</td> <td>10</td> </tr> <tr> <td>Echinoid spine</td> <td>5</td> <td>—</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>—</td> <td>15</td> <td>5</td> </tr> <tr> <td>Micrite</td> <td>—</td> <td>20</td> <td>80</td> </tr> <tr> <td>Other</td> <td>—</td> <td>—</td> <td>5</td> </tr> <tr> <td>Peloids</td> <td>45</td> <td>40</td> <td>—</td> </tr> <tr> <td>Spar cement</td> <td>10</td> <td>—</td> <td>—</td> </tr> </table>		1, 10	1, 15	1, 27	D		D	M	Algae	10	—	—	Bioclast	30	25	10	Echinoid spine	5	—	—	Foraminifers	—	15	5	Micrite	—	20	80	Other	—	—	5	Peloids	45	40	—	Spar cement	10	—	—
	1, 10	1, 15	1, 27																																																	
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Other	—	—	5																																																	
Peloids	45	40	—																																																	
Spar cement	10	—	—																																																	

SITE 761 HOLE C CORE 15R CORED INTERVAL 279.5-284.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																											
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALYNOMORPHS																																																																																																		
RHAETIAN	<i>T. hanfkeni</i>	Barren				1						<p>CARBONATE WACKESTONE</p> <p>Major lithology: CARBONATE WACKESTONE, white (10YR 8/2) and pinkish white (5YR 8/2) with bivalves, gastropods, and small benthonic foraminifers. Fossils usually have moldic porosities, calcite fills dissolution cavities.</p> <p>Minor lithologies:</p> <p>a. Carbonate breccia, Section 1, 2-7 cm, very pale brown (10YR 8/3 to 10YR 7/3), probably formed due to dissolution (collapse breccia?), contains mollusks and gastropods.</p> <p>b. Algal mat structure, Section 1, 34-38 cm, yellowish red (5YR 5/8).</p> <p>c. Grainstone, Section 1, 17-33 cm, very pale brown (10YR 8/4), formed by oolites and bioclasts.</p> <p>THIN SECTION SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 1</td> <td>1, 8</td> <td>1, 18</td> <td>1, 30</td> <td>1, 38</td> <td>1, 44</td> </tr> <tr> <td>M</td> <td>D</td> <td>M</td> <td>M</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Algae</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>5</td> </tr> <tr> <td>Bioclast</td> <td>30</td> <td>5</td> <td>5</td> <td>15</td> <td>—</td> <td>25</td> </tr> <tr> <td>Dolomite</td> <td>—</td> <td>65</td> <td>—</td> <td>60</td> <td>—</td> <td>—</td> </tr> <tr> <td>Echinoid spine</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>3</td> </tr> <tr> <td>Echinoid</td> <td>5</td> <td>—</td> <td>—</td> <td>10</td> <td>—</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>5</td> <td>—</td> <td>20</td> <td>—</td> <td>—</td> <td>10</td> </tr> <tr> <td>Gastropod</td> <td>5</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Microsparite</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>95</td> <td>—</td> </tr> <tr> <td>Ooids</td> <td>—</td> <td>—</td> <td>35</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Peloids</td> <td>30</td> <td>—</td> <td>10</td> <td>—</td> <td>—</td> <td>50</td> </tr> <tr> <td>Spar cement</td> <td>25</td> <td>—</td> <td>30</td> <td>—</td> <td>—</td> <td>7</td> </tr> </table>		1, 1	1, 8	1, 18	1, 30	1, 38	1, 44	M	D	M	M	D	D	D	Algae	—	—	—	—	—	5	Bioclast	30	5	5	15	—	25	Dolomite	—	65	—	60	—	—	Echinoid spine	—	—	—	—	—	3	Echinoid	5	—	—	10	—	—	Foraminifers	5	—	20	—	—	10	Gastropod	5	—	—	—	—	—	Microsparite	—	—	—	—	95	—	Ooids	—	—	35	—	—	—	Peloids	30	—	10	—	—	50	Spar cement	25	—	30	—	—	7
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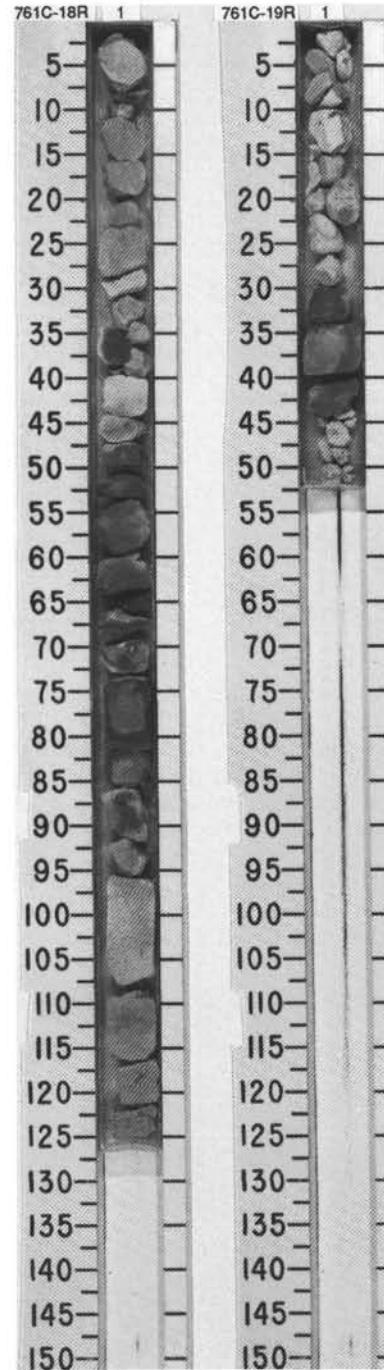


SITE 761 HOLE C CORE 18R CORED INTERVAL 294.5-304.0 mbsf

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	PALYNOMORPHS																																																	
	Barren	Barren	Barren					1	0.5 1.0				# # #	<p>OOLITIC GRAINSTONE, CALCAREOUS MUDSTONE, AND SKELETAL AND OOID WACKESTONE TO PACKSTONE</p> <p>Major lithologies:</p> <p>OOLITIC GRAINSTONE, pale brown (10YR 7/4), moderate dissolution. CALCAREOUS MUDSTONE, yellowish brown (10YR 5/4), thin shells, corals (entirely dissolved) visible on base, small flaser and algal laminations in the middle. SKELETAL and OOID WACKESTONE to PACKSTONE, very pale brown (10YR 7/4), partly laminated (algal), lower part contains corals (small size) and upper part grades into wackestone-mudstone with birds-eye structures.</p> <p>THIN SECTION SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 4</td> <td>1, 80</td> <td>1, 99</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>Algae</td> <td>5</td> <td>—</td> <td>—</td> </tr> <tr> <td>Bioclast</td> <td>30</td> <td>—</td> <td>—</td> </tr> <tr> <td>Cast</td> <td>—</td> <td>—</td> <td>5</td> </tr> <tr> <td>Dolomite</td> <td>—</td> <td>100</td> <td>—</td> </tr> <tr> <td>Echinoid</td> <td>15</td> <td>—</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>10</td> <td>—</td> <td>—</td> </tr> <tr> <td>Micrite</td> <td>10</td> <td>—</td> <td>95</td> </tr> <tr> <td>Peloids</td> <td>30</td> <td>—</td> <td>—</td> </tr> </table>		1, 4	1, 80	1, 99	D	D	D	D	Algae	5	—	—	Bioclast	30	—	—	Cast	—	—	5	Dolomite	—	100	—	Echinoid	15	—	—	Foraminifers	10	—	—	Micrite	10	—	95	Peloids	30	—	—
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Peloids	30	—	—																																																			

SITE 761 HOLE C CORE 19R CORED INTERVAL 304.0-313.5 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	PALYNOMORPHS																	
	Barren	Barren	Barren					1					#	<p>CARBONATE WACKESTONE AND DOLOMITE</p> <p>Major lithologies:</p> <p>CARBONATE WACKESTONE, white (5Y 8/1) and pinkish white (5YR 8/2) with bivalves (pelecypods), gastropods, and some unrecognizable tiny fossil fragments. Common moldic and vuggy porosities. Moldic porosity represents dissolution of mollusc fragments (e.g. bivalves, gastropods). DOLOMITE(?), olive yellow (2.5Y 6/6) very fine crystalline with some bivalves, molds, and casts.</p> <p>THIN SECTION SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 20</td> </tr> <tr> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Bioclast</td> <td>15</td> </tr> <tr> <td>Micrite</td> <td>85</td> </tr> </table>		1, 20	D	D	Bioclast	15	Micrite	85
	1, 20																					
D	D																					
Bioclast	15																					
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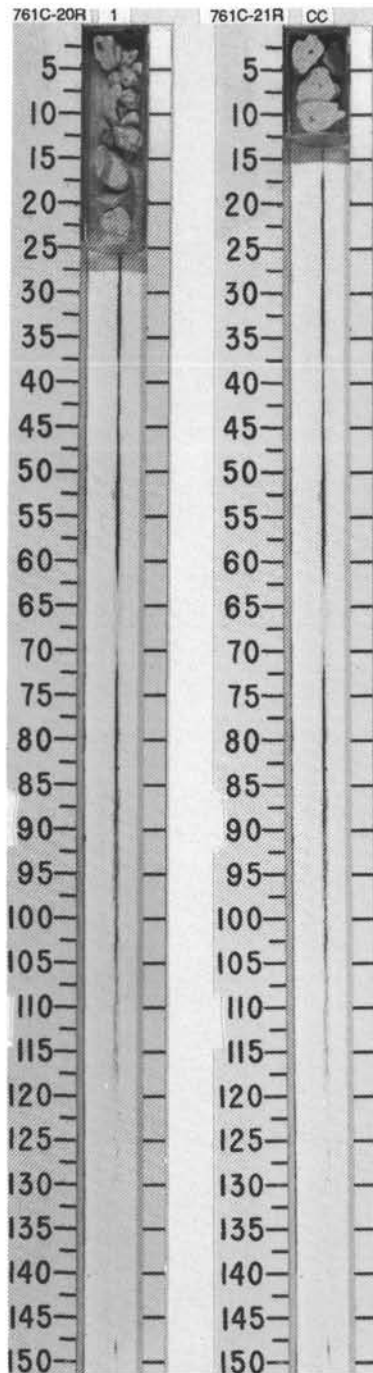


SITE 761 HOLE C CORE 20R CORED INTERVAL 313.5-323.0 mbsf

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	PALYNOMORPHS																									
RHAETIAN	<i>T. nanikeni</i>	Barren			Barren		1				<p>SKELETAL PELOIDAL PACKSTONE</p> <p>Major lithology: SKELETAL PELOIDAL PACKSTONE, white (10YR 8/1), moldic porosity, fossils (molluscs, echinoderms, coral fragments, molds of spherical fossils or grains). Pebble to cobble-sized fragments. Several pieces contain fragments of <i>Megalodon</i> sp. (bivalve, 8 mm thick, partially, to completely recrystallized).</p> <p>THIN SECTION SUMMARY (%):</p> <table style="margin-left: 40px;"> <tr> <td>1, 10</td> <td>1, 20</td> </tr> <tr> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table style="margin-left: 40px;"> <tr> <td>Echinoid</td> <td>—</td> <td>5</td> </tr> <tr> <td>Foraminifers</td> <td>20</td> <td>15</td> </tr> <tr> <td>Micrite</td> <td>60</td> <td>70</td> </tr> <tr> <td>Mollusk</td> <td>15</td> <td>10</td> </tr> <tr> <td>Other</td> <td>5</td> <td>—</td> </tr> </table>	1, 10	1, 20	D	D	Echinoid	—	5	Foraminifers	20	15	Micrite	60	70	Mollusk	15	10	Other	5	—
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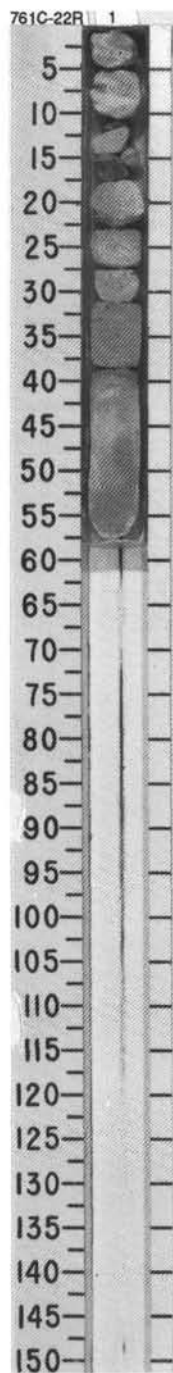
SITE 761 HOLE C CORE 21R CORED INTERVAL 323.0-332.5 mbsf

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	PALYNOMORPHS																
Barren	Barren				Barren		1				<p>PELOIDAL SKELETAL PACKSTONE</p> <p>Major lithology: PELOIDAL SKELETAL PACKSTONE, white (5YR 8/1), moldic porosity, recrystallized fossil fragments, including molluscs. Very pale brown (10YR 8/3) surface on side of one piece, either void or fracture partially filled with carbonate or bivalve mold.</p> <p>THIN SECTION SUMMARY (%):</p> <table style="margin-left: 40px;"> <tr> <td>CC, 4</td> </tr> <tr> <td>M</td> </tr> </table> <p>COMPOSITION:</p> <table style="margin-left: 40px;"> <tr> <td>Bioclast</td> <td>Tr</td> </tr> <tr> <td>Dolomite</td> <td>95</td> </tr> <tr> <td>Inorganic calcite</td> <td>5</td> </tr> <tr> <td>Quartz</td> <td>Tr</td> </tr> </table>	CC, 4	M	Bioclast	Tr	Dolomite	95	Inorganic calcite	5	Quartz	Tr
CC, 4																					
M																					
Bioclast	Tr																				
Dolomite	95																				
Inorganic calcite	5																				
Quartz	Tr																				



SITE 761 HOLE C CORE 22R CORED INTERVAL 332.5-337.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																						
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																																																
	Barren	Barren						1						<p>CARBONATE WACKESTONE</p> <p>Major lithology: CARBONATE WACKESTONE, white (10YR 8/1), brownish yellow (10YR 6/6), and very pale brown (10YR 8/4), including bivalves, pelecypods, molluscs, and echinoderms. Moldic and vuggy porosity, the first usually attributed to dissolution of molluscan fragments.</p> <p>THIN SECTION SUMMARY (%):</p> <table border="1"> <thead> <tr> <th></th> <th>1, 5 D</th> <th>1, 14 D</th> <th>1, 25 D</th> <th>1, 53 D</th> </tr> </thead> <tbody> <tr> <td>Algae</td> <td>—</td> <td>—</td> <td>9</td> <td>—</td> </tr> <tr> <td>Bioclast</td> <td>5</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Cast</td> <td>—</td> <td>—</td> <td>—</td> <td>10</td> </tr> <tr> <td>Dolomite</td> <td>—</td> <td>94</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Echinoid</td> <td>17</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>Foraminifers</td> <td>—</td> <td>—</td> <td>4</td> <td>—</td> </tr> <tr> <td>Matrix</td> <td>—</td> <td>3</td> <td>—</td> <td>—</td> </tr> <tr> <td>Micrite</td> <td>67</td> <td>—</td> <td>72</td> <td>55</td> </tr> <tr> <td>Mollusk</td> <td>11</td> <td>2</td> <td>4</td> <td>30</td> </tr> <tr> <td>Ostracod</td> <td>—</td> <td>—</td> <td>1</td> <td>2</td> </tr> <tr> <td>Other</td> <td>—</td> <td>Tr</td> <td>4</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>Tr</td> <td>—</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Spar cement</td> <td>—</td> <td>—</td> <td>2</td> <td>—</td> </tr> </tbody> </table>		1, 5 D	1, 14 D	1, 25 D	1, 53 D	Algae	—	—	9	—	Bioclast	5	—	—	—	Cast	—	—	—	10	Dolomite	—	94	Tr	Tr	Echinoid	17	1	2	3	Foraminifers	—	—	4	—	Matrix	—	3	—	—	Micrite	67	—	72	55	Mollusk	11	2	4	30	Ostracod	—	—	1	2	Other	—	Tr	4	—	Quartz	Tr	—	Tr	—	Spar cement	—	—	2	—
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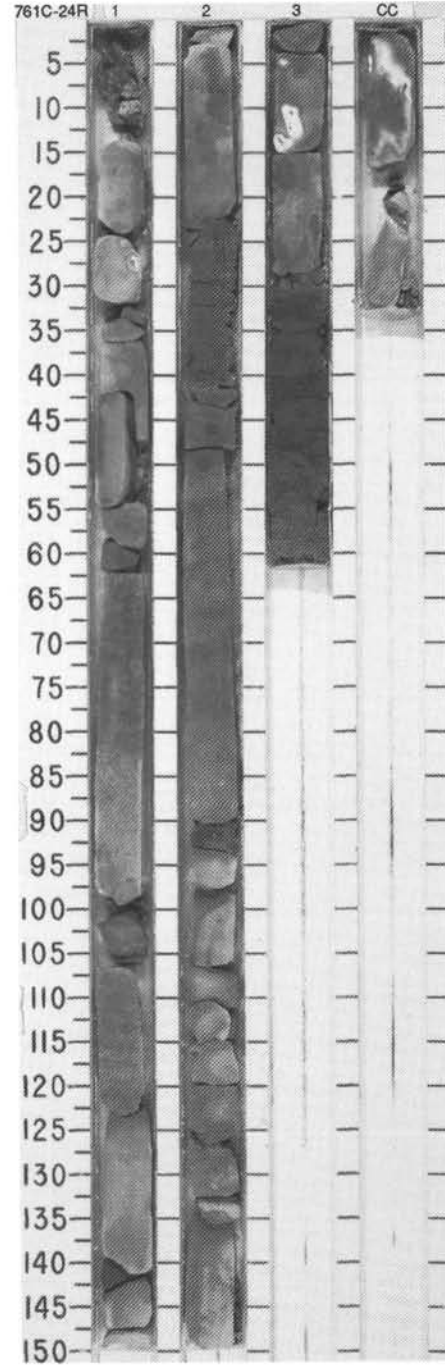


SITE 761 HOLE C CORE 24R CORED INTERVAL 346.7-356.2 mbsf

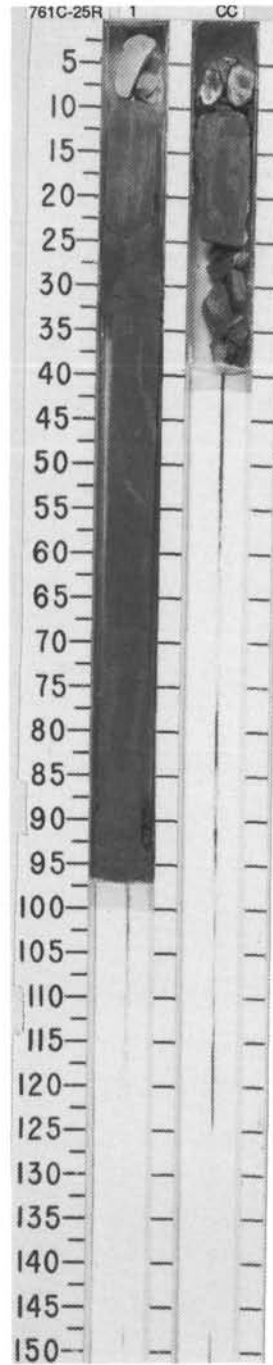
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS							
RHAETIAN	R/G	F/G	Upper Triassic species	Barren							
	R/P		<i>A. reducta</i>		<ul style="list-style-type: none"> <li>● 4.48   1.854</li> <li>● 2.12</li> <li>● CaCO<sub>3</sub> 0.08% TOC=0.78%</li> </ul>	1					
						2					
						3					
						CC					

CARBONATE MUDSTONE	
Major lithology: CARBONATE MUDSTONE, gray (N5 to N6) to dark gray (N4), shell fragments (brachiopods), burrows (up to 2 mm X 4 mm), bioturbated. Minor pyrite infills bioclasts and burrows. Recrystallized.	
Minor lithologies:	
a.	Silty claystone with bioclasts, Section 2, 22-55 and 89-93 cm, and Section 4, 28-60 cm, authigenic carbonate (prismatic grains with high relief and high birefringence) and dolomite, dark gray (N4) to very dark gray (N3). Bioclasts are silt- to sand-sized, heavily disturbed by drilling (drill biscuits). Bioturbated with Chondrites-type burrows, rare laminations.
b.	Carbonate wackestone, gray (N5 to N6), Section 1, 55-122 cm, shell fragments including molluscs, brachiopods, and minor crinoid stems. Shell fragments show moldic porosity development. Bioturbated and recrystallized.
SMEAR SLIDE SUMMARY (%):	
	2, 40    3, 38
	M        D
TEXTURE:	
Sand	—    7
Silt	25   30
Clay	75   63
COMPOSITION:	
Bioclast	3    18
Clay	74   53
Dolomite	20   4
Mica	Tr   —
Nannofossils	1    6
Opales	—   4
Other	—   15
Pyrite	2    —



TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAATOMS									PALYNOFORMS	PALEOMAGNETICS	CHEMISTRY													
RHAETIAN	R/G	C/G TRI	Upper Triassic species			1						<p>CARBONATE MUDSTONE</p> <p>Major lithology: CARBONATE MUDSTONE, very dark gray to gray (N3 to N5). Bioturbation consists of mottling and several styles of burrows; vertical burrows 5-10 mm wide and up to 20 cm long, horizontal burrows up to 10 mm thick, and horizontal burrows 2-4 mm wide. Rare shelly fossils including oysters and other bivalves.</p> <p>Minor lithologies:                      a. Claystone, very dark gray (N3) and highly disturbed by drilling. Section 1, 24-27 cm and Section CC, 0-3 cm. Consists of clay, with common dolomite rhombs and rare pyrite and spherical nannofossils.                      b. Carbonate wackestone to packstone, pink (7.5YR 8/4). Section 1, 0-10 cm, probably downhole contamination.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table style="margin-left: 20px;"> <tr><td></td><td>CC, 2</td></tr> <tr><td></td><td>M</td></tr> </table> <p>TEXTURE:</p> <table style="margin-left: 20px;"> <tr><td>Silt</td><td>15</td></tr> <tr><td>Clay</td><td>85</td></tr> </table> <p>COMPOSITION:</p> <table style="margin-left: 20px;"> <tr><td>Clay</td><td>85</td></tr> <tr><td>Dolomite</td><td>12</td></tr> <tr><td>Nannofossils</td><td>1</td></tr> <tr><td>Pyrite</td><td>2</td></tr> </table>		CC, 2		M	Silt	15	Clay	85	Clay	85	Dolomite	12	Nannofossils	1	Pyrite	2
	CC, 2																											
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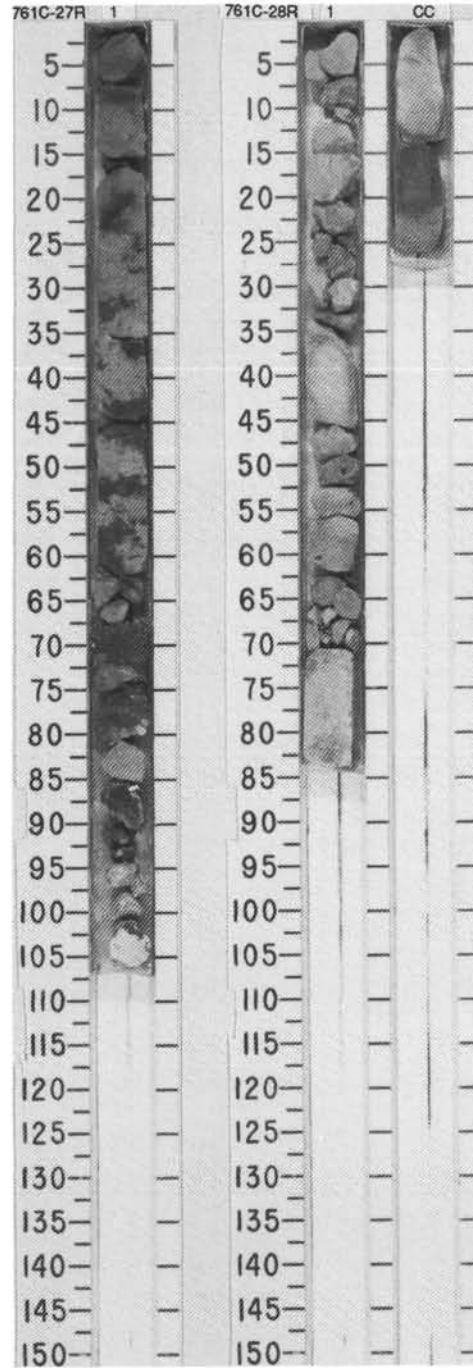


SITE 761 HOLE C CORE 27R CORED INTERVAL 375.2-384.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION										
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										PALYNOMORPHS	PALEOMAGNETICS								
RHAETIAN		Barren		R/P		•TOC=0.02%	1				#		<p>CARBONATE WACKSTONE TO PACKSTONE</p> <p>Major lithologies: MOLLUSCAN CARBONATE WACKSTONE, gray (5Y 6/1), more indurated and limy than the molluscan wackstone to packstone. Includes mollusc fragments, coral, gastropods, echinoderm fragments, and peloids. MOLLUSCAN CARBONATE WACKSTONE and PACKSTONE, very dark gray (5Y 3/1), recrystallized, and dolomitized (?), clayey in part, shell fragments concentrated parallel to the bedding surface(?). Reworking may be common. CARBONATE WACKSTONE with MOLLUSCS and CORAL, white (10Y 8/1), coral, molluscs, echinoderm, and algal fragments.</p> <p>THIN SECTION SUMMARY (%):</p> <p style="text-align: right;">1.41 D</p> <p>COMPOSITION:</p> <table style="margin-left: 20px;"> <tr><td>Algae</td><td>10</td></tr> <tr><td>Echinoid</td><td>10</td></tr> <tr><td>Micrite</td><td>46</td></tr> <tr><td>Mollusk</td><td>30</td></tr> <tr><td>Quartz</td><td>2</td></tr> </table>	Algae	10	Echinoid	10	Micrite	46	Mollusk	30	Quartz	2
Algae	10																						
Echinoid	10																						
Micrite	46																						
Mollusk	30																						
Quartz	2																						

SITE 761 HOLE C CORE 28R CORED INTERVAL 384.7-389.2 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										PALYNOMORPHS	PALEOMAGNETICS								
	R/G	Barren	Barren	Barren			1			X		#	<p>SKELETAL GRAINSTONE TO PACKSTONE WITH ECHINODERMS AND CRINOIDS AND CARBONATE WACKSTONE</p> <p>Major lithologies: SKELETAL, OOID, and PELOIDAL GRAINSTONE, light gray (5Y 7/2). Section 1, 0 to 70 cm, ooid and peloidal grainstone with shell debris, strongly recrystallized (partly dolomitized). Very coarse grainstone and packstone, light olive brown (2.5Y 5/4). Section 1, 70 to 85 cm. CARBONATE WACKSTONE very dark gray (7.5YR 3/0) to gray (7.5YR 6/0), with molluscs, echinoderms, and coral fragments (CC). Strong bioturbation and patchy dolomitization.</p> <p>THIN SECTION SUMMARY (%):</p> <p style="text-align: right;">1.40 D</p> <p>COMPOSITION:</p> <table style="margin-left: 20px;"> <tr><td>Cement</td><td>35</td></tr> <tr><td>Echinoid</td><td>25</td></tr> <tr><td>Foraminifers</td><td>10</td></tr> <tr><td>Mollusk</td><td>20</td></tr> <tr><td>Peloids</td><td>10</td></tr> </table>	Cement	35	Echinoid	25	Foraminifers	10	Mollusk	20	Peloids	10
Cement	35																						
Echinoid	25																						
Foraminifers	10																						
Mollusk	20																						
Peloids	10																						



SITE 761 HOLE C CORE 29R CORED INTERVAL 389.2-398.7 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							
R/G							● TOC=0.0%				
	Barren										
	Barren										
	Barren										

## CARBONATE PACKSTONE, WACKESTONE, AND GRAINSTONE

## Major lithologies:

CARBONATE WACKESTONE to PACKSTONE, light gray (7.5YR 10), Section 1, 100-108 cm, contains some bioclasts (i.e. molluscs, echinoderms) and common lithoclasts. CARBONATE PACKSTONE to GRAINSTONE, very dark gray (5Y 3/1), olive gray (5Y 5/2) and white (5Y 8/1), Section 1, 0-100 cm and 110-150 cm and Section 2. Section 1, 0-100 cm, packstone to grainstone facies consists of molluscs, echinoderms and probably coralline red algal fragments with faint lamination and intensive bioturbation. Burrows dolomitized, argillaceous appearance. Section 1, 110-150 cm, fine-grained packstone, very light greenish gray (10Y 8/2), components degraded (chalky) and not identifiable. Section 2, coarse to fine grained with common molluscs, echinoderms and corals.

Minor lithology: Calcareous siltstone, black (7.5YR 2/0).





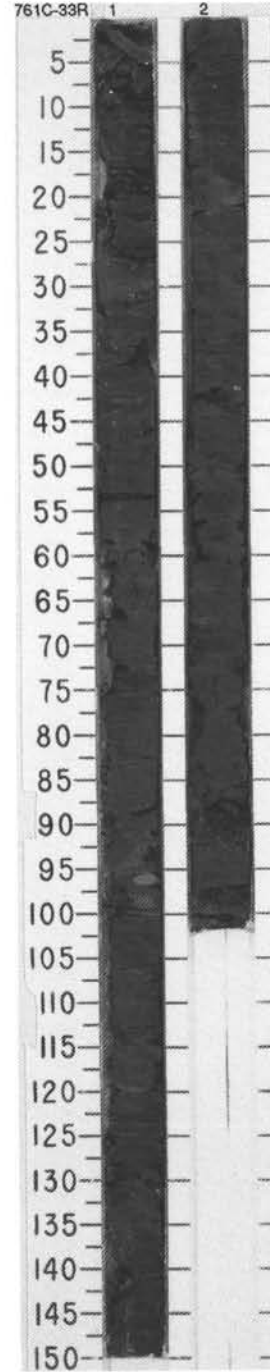




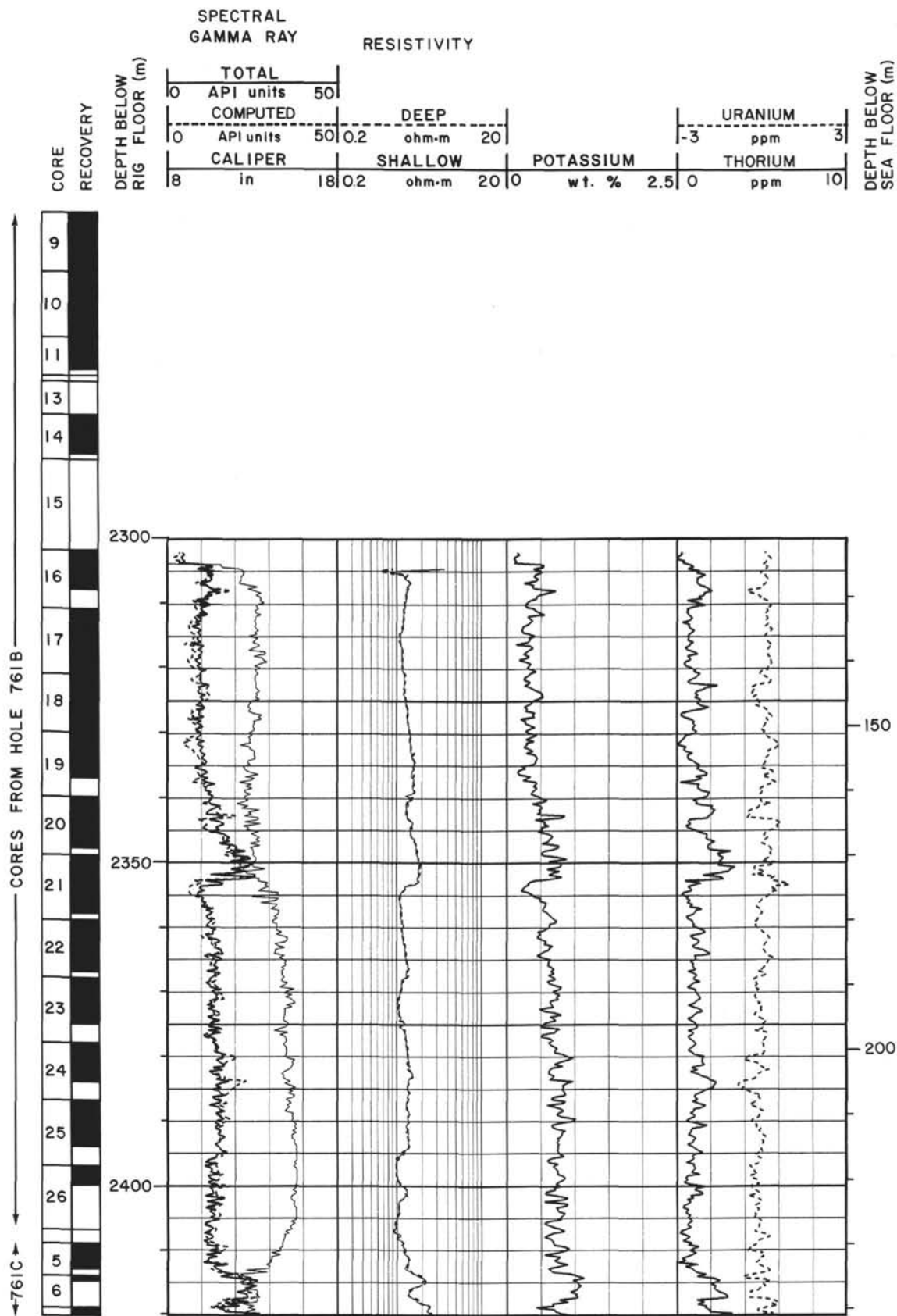


SITE 761 HOLE C CORE 33R CORED INTERVAL 427.2-436.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																												
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																																			
NORTIAN					TOC=3.02% ● @CaCO <sub>3</sub> =1.42% TOC=4.91%	0.5 1 1.0					<p>SILTY CLAYSTONE</p> <p>Major lithology: SILTY CLAYSTONE, black (2.5Y 2/0), carbonaceous, finely laminated, moderate bioturbation.</p> <p>Minor lithologies:</p> <p>a. Carbonaceous clayey siltstone, dark greenish gray (10Y 4/2), finely laminated, 1-30 mm thick, interbedded with silty claystone, local coal seams.</p> <p>b. coal, black (2.5Y 2/0), Section 1, 52-54 cm.</p> <p>c. Pyrite nodules, maximum dimension 2 X 7 mm, and smaller scattered grains.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 12</td> <td>1, 110</td> <td>2, 54</td> </tr> <tr> <td></td> <td>M</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>10</td> <td>7</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>60</td> <td>25</td> <td>26</td> </tr> <tr> <td>Clay</td> <td>30</td> <td>68</td> <td>69</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Carbonate</td> <td>5</td> <td>15</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>17</td> <td>44</td> <td>55</td> </tr> <tr> <td>Feldspar</td> <td>5</td> <td>5</td> <td>—</td> </tr> <tr> <td>Glass</td> <td>—</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Opauques</td> <td>10</td> <td>—</td> <td>15</td> </tr> <tr> <td>Carbonaceous fragments</td> <td>—</td> <td>15</td> <td>15</td> </tr> <tr> <td>Quartz</td> <td>50</td> <td>20</td> <td>15</td> </tr> <tr> <td>Zeolite</td> <td>2</td> <td>1</td> <td>—</td> </tr> <tr> <td>Rock fragments</td> <td>5</td> <td>—</td> <td>—</td> </tr> </table>		1, 12	1, 110	2, 54		M	D	D	Sand	10	7	5	Silt	60	25	26	Clay	30	68	69	Accessory minerals	—	—	Tr	Carbonate	5	15	—	Clay	17	44	55	Feldspar	5	5	—	Glass	—	Tr	—	Opauques	10	—	15	Carbonaceous fragments	—	15	15	Quartz	50	20	15	Zeolite	2	1	—	Rock fragments	5	—	—
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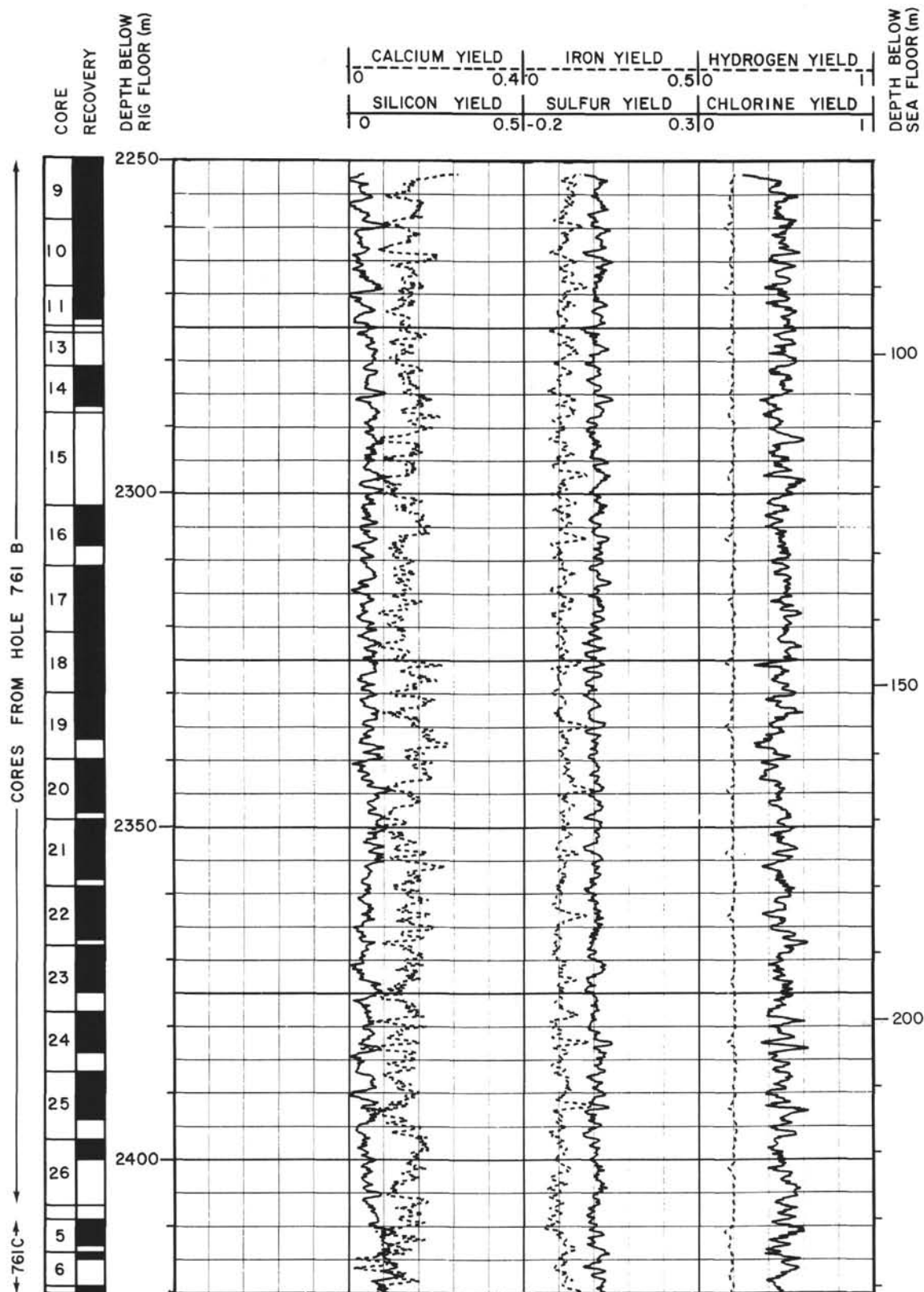


### Summary Log for Site 761C

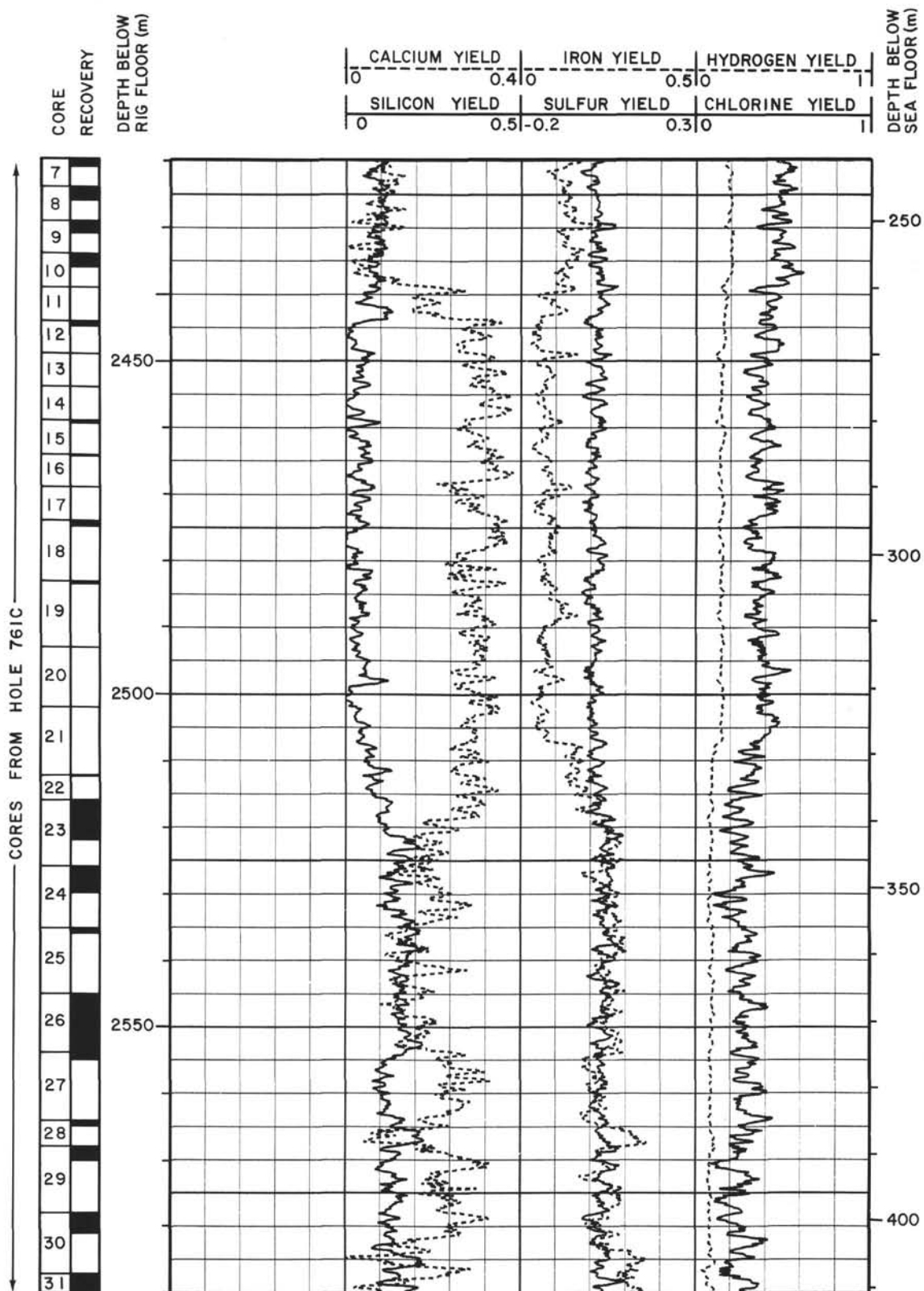




Summary Log for Site 761C (continued)



Summary Log for Site 761C (continued)





Summary Log for Site 761C (continued)

