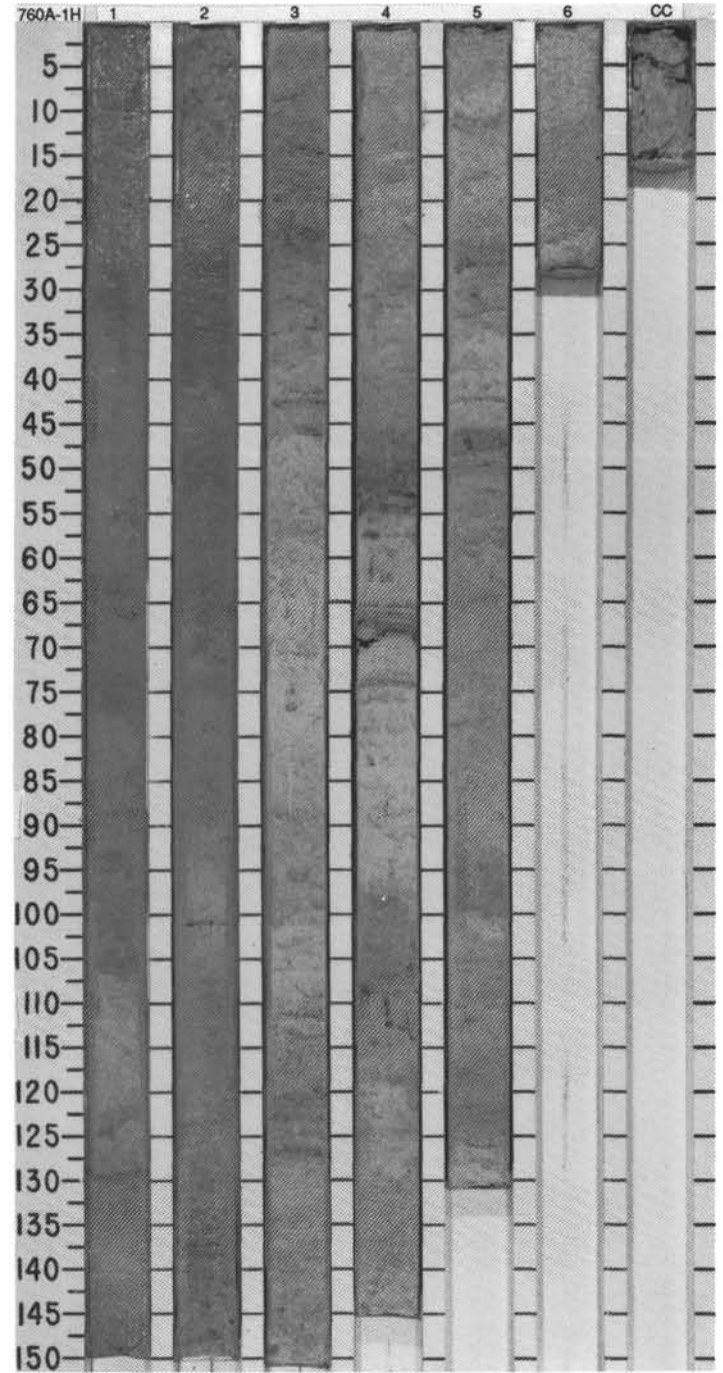
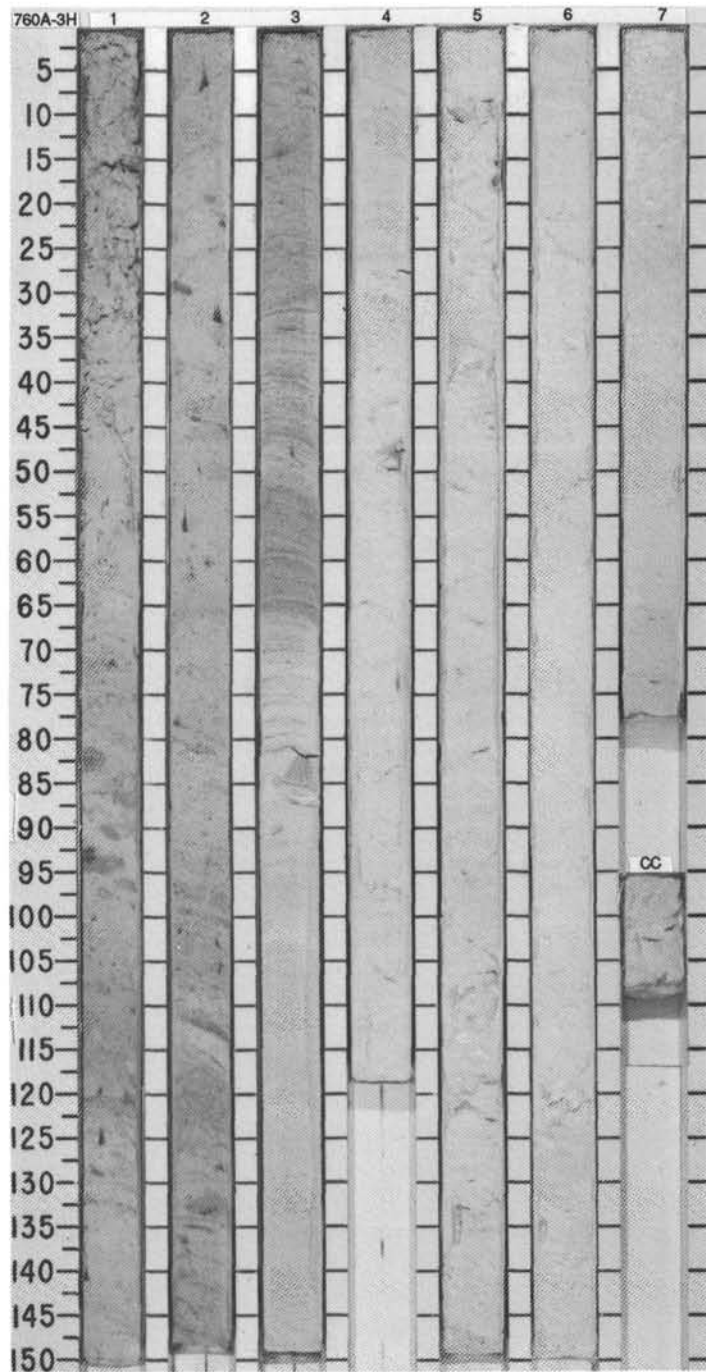


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																
	FORAMINIFERS	NANNOFOSSILS	RADIOLIARIANS	DIATOMS									PALEOMAGNETICS	CHEMISTRY																																																																														
QUATERNARY	A/G NN20 - NN21				● 0-74.1 V-1.504 ● 7-1.49	1	0.5 1.0					<p>FORAMINIFER NANNOFOSSIL OOZE</p> <p>Major lithology: FORAMINIFER NANNOFOSSIL OOZE, generally structureless and mottled by bioturbation. In Section 1, 0 cm to Section 2, 100 cm, pink (5Y 7/4) is the dominant color and light gray (5Y 7/1) bands (1-20 cm thick) are interbedded. Below Section 2, 100 cm, 15-80 cm thick cycles represented by color changes from light greenish gray (10YR 7/1), through light gray (2.5Y 7/1) to dark gray (2.5Y 7/1) are observed.</p> <p>Minor lithology: Nannofossil ooze with clay and foraminifers, light gray (5YR 7/1) and light greenish gray (10Y 6/4) is interbedded and forms discrete beds in Section 1, 118-126 cm, Section 2, 100-101 cm, 142-150 cm, Section 3, 0-13 cm, and Section 6, 0-35 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 93</td> <td>2, 7</td> <td>2, 100</td> <td>2, 149</td> <td>3, 42</td> <td>3, 77</td> <td>3, 119</td> </tr> <tr> <td></td> <td>D</td> <td>D</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>5</td> <td>2</td> <td>10</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Diatoms</td> <td>5</td> <td>—</td> <td>—</td> <td>—</td> <td>5</td> <td>—</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>20</td> <td>30</td> <td>25</td> <td>20</td> <td>25</td> <td>35</td> <td>30</td> </tr> <tr> <td>Nannofossils</td> <td>60</td> <td>65</td> <td>65</td> <td>77</td> <td>70</td> <td>60</td> <td>70</td> </tr> <tr> <td>Other</td> <td>—</td> <td>3</td> <td>Tr</td> <td>3</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Phosphate</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Radiolarians</td> <td>5</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Silicoflagellates</td> <td>5</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>5</td> <td>—</td> </tr> </table>		1, 93	2, 7	2, 100	2, 149	3, 42	3, 77	3, 119		D	D	M	D	D	D	D	Clay	5	2	10	—	—	—	—	Diatoms	5	—	—	—	5	—	—	Foraminifers	20	30	25	20	25	35	30	Nannofossils	60	65	65	77	70	60	70	Other	—	3	Tr	3	—	—	—	Phosphate	Tr	—	—	—	Tr	—	—	Radiolarians	5	—	—	—	—	—	—	Silicoflagellates	5	—	—	—	—	5	—
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Silicoflagellates	5	—	—	—	—	5	—																																																																																					
A/G N22	A/G NN19				● 0-72.5 ● 7-1.55	2																																																																																						
QUATERNARY	A/G NN20 - NN21				● CaCO ₃ 86.08% TOC-0.01%	3																																																																																						
Barren	A/G NN19				● CaCO ₃ 76.50%	4																																																																																						
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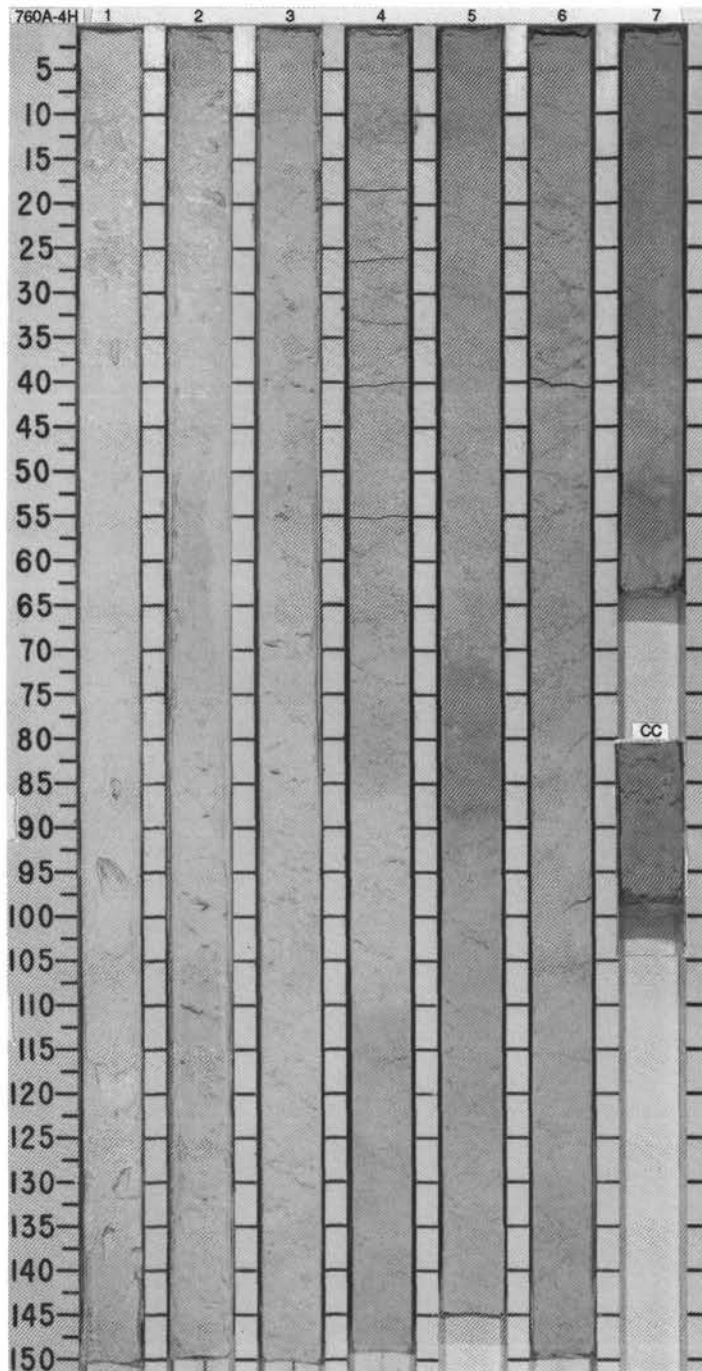


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONES																																																									
UPPER PLIOCENE	A/G NN19	A/G NN16							0.5 1.0				<p>NANNOFOSSIL OOZE</p> <p>Major lithology: Light gray (5Y 7/1 to 10YR 7/2) to white (10YR 8/1) NANNOFOSSIL OOZE. Upper portion is predominantly light gray (5Y 7/1) in Section 1, 0-150 cm, and light gray (10YR 7/1) to white (10YR 5/1) in Section 2, 0-150 cm. A transitional boundary occurs in Section 3, 0-66 cm, marked by light gray (10YR 7/2) bands in Section 3, 30-49 cm. The lower portion of Core 122-760A-3H is uniformly white (10YR 8/1) from Section 3, 66 cm to Section 7, 66 cm. A sharp color boundary occurs at Section 7, 66 cm, separating white (10YR 8/1) nannofossil ooze above from very pale brown (10YR 8/3) nannofossil ooze with foraminifers below.</p> <p>Minor lithology: Nannofossil ooze with foraminifers. The change in faunal components corresponds to a color change from white (10YR 8/1) nannofossil ooze to pale brown (10YR 8/3) nannofossil ooze with foraminifers, Section 7, 65-75 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 30</td> <td>1, 71</td> <td>4, 65</td> <td>7, 75</td> <td>CC, 6</td> </tr> <tr> <td></td> <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>Bioclast</td> <td>Tr</td> <td>—</td> <td>—</td> <td>10</td> <td>Tr</td> </tr> <tr> <td>Feldspar</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Foraminifers</td> <td>5</td> <td>5</td> <td>10</td> <td>20</td> <td>2</td> </tr> <tr> <td>Nannofossils</td> <td>95</td> <td>90</td> <td>90</td> <td>80</td> <td>97</td> </tr> <tr> <td>Quartz</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Silicoflagellates</td> <td>—</td> <td>5</td> <td>—</td> <td>—</td> <td>—</td> </tr> </table>		1, 30	1, 71	4, 65	7, 75	CC, 6		D	D	D	M	M	Bioclast	Tr	—	—	10	Tr	Feldspar	Tr	—	—	—	Tr	Foraminifers	5	5	10	20	2	Nannofossils	95	90	90	80	97	Quartz	—	Tr	—	—	—	Silicoflagellates	—	5	—	—	—
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UPPER MIOCENE	A/G NN17a	A/G NN11							5																																																				
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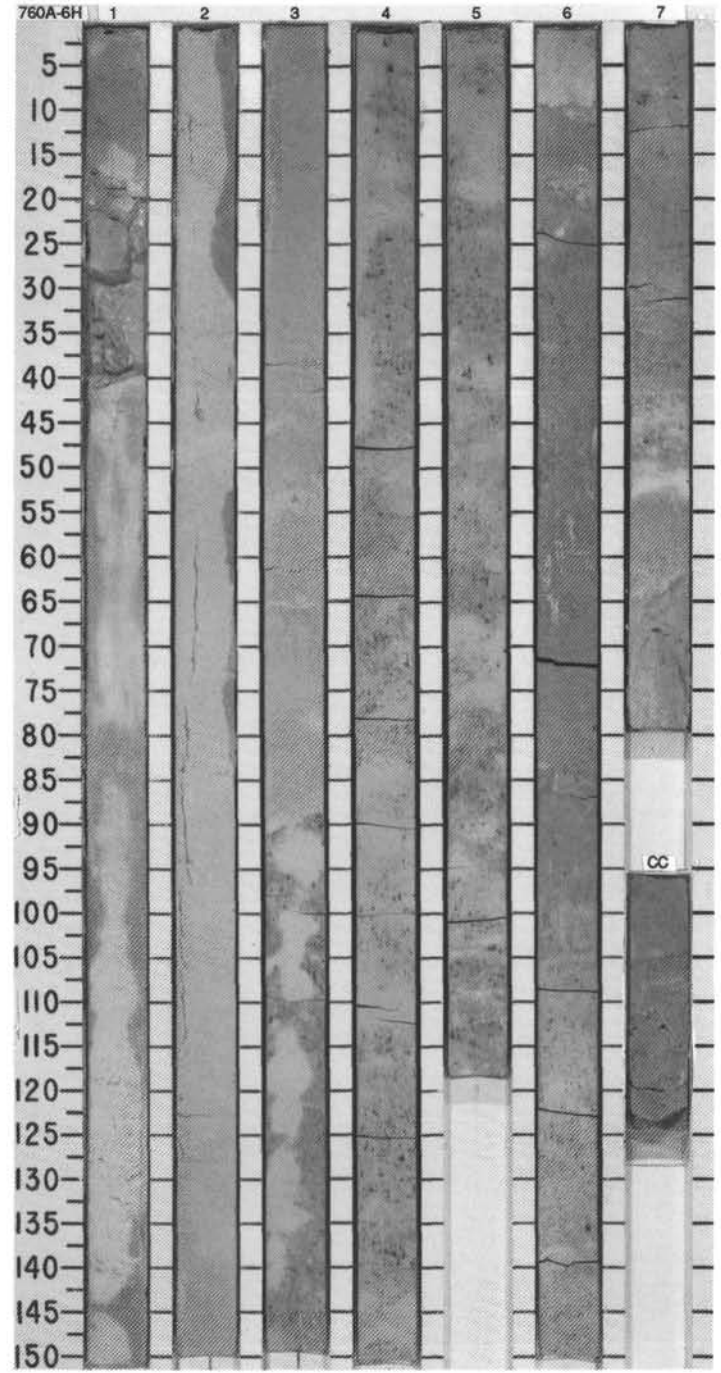
SITE 760 HOLE A CORE 4H CORED INTERVAL 26.7-36.2 mbsf

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	DIAZONES																																																																															
MIDDLE MIOCENE	A/G NN6 Barren	A/G NN7	A/G NN8								<p>NANNOFOSSIL OOZE WITH FORAMINIFERS</p> <p>Major lithologies: NANNOFOSSIL OOZE with FORAMINIFERS. Colors vary gradually between white (10YR 8/1, 10YR 8/2), was very pale brown (10YR 8/3). Changes occur over intervals of 25-130 cm. The darker layers appear to have slightly higher abundances of foraminifers. Discoasters are common.</p> <p>Minor lithology: Foraminifer nannofossil ooze, light gray (2.5Y 7/2). Section 7, 52-58 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 110</td> <td>2, 110</td> <td>3, 118</td> <td>4, 90</td> <td>4, 117</td> <td>7, 55</td> <td>CC, 10</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>-</td> <td>Tr</td> </tr> <tr> <td>Bioclast</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>Fish</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>1</td> <td>-</td> <td>-</td> </tr> <tr> <td>Foraminifers</td> <td>20</td> <td>25</td> <td>20</td> <td>10</td> <td>25</td> <td>30</td> <td>20</td> </tr> <tr> <td>Nannofossils</td> <td>80</td> <td>75</td> <td>80</td> <td>90</td> <td>70</td> <td>70</td> <td>80</td> </tr> <tr> <td>Quartz</td> <td>-</td> <td>-</td> <td>Tr</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>Silicoflagellates</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>4</td> <td>-</td> <td>-</td> </tr> </table>		1, 110	2, 110	3, 118	4, 90	4, 117	7, 55	CC, 10		D	D	D	D	D	M	D	Accessory minerals	-	-	-	-	-	-	Tr	Bioclast	-	-	-	-	-	-	-	Fish	-	-	-	-	1	-	-	Foraminifers	20	25	20	10	25	30	20	Nannofossils	80	75	80	90	70	70	80	Quartz	-	-	Tr	-	-	-	-	Silicoflagellates	-	-	-	-	4	-	-
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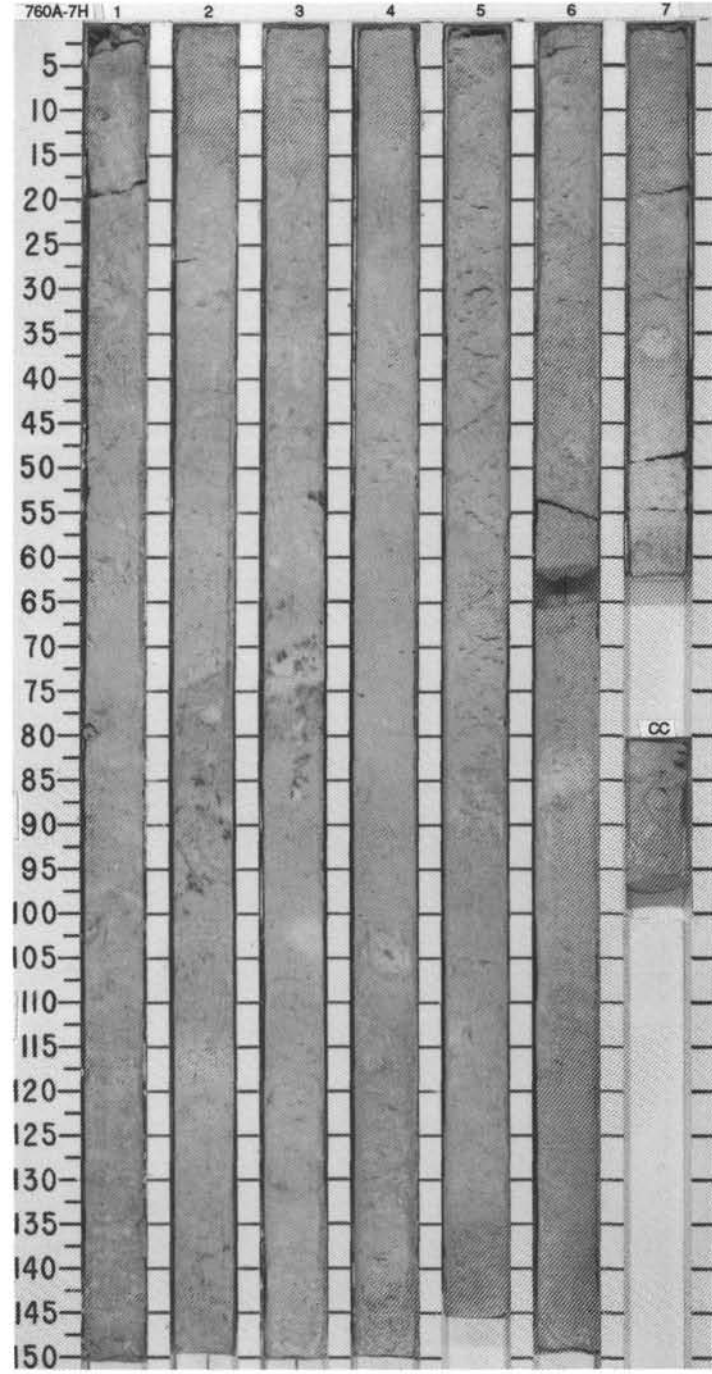


SITE 760 HOLE A CORE 6H CORED INTERVAL 45.7-55.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																								
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																																																																	
LOWER MIOCENE	A/G N5 - N7	A/G NN3					0.5 1						NANNOFOSSIL OOZE, NANNOFOSSIL OOZE WITH FORAMINIFERS, NANNOFOSSIL OOZE WITH CLAY Major lithologies: Firm NANNOFOSSIL OOZE with FORAMINIFERS and NANNOFOSSIL OOZE with CLAY very pale brown (10YR 8/4, 10YR 8/3) to light gray (10YR 7/2, 2.5Y 7/2) and white (10YR 8/2), mottled. The color darkens to light brownish gray (10YR 6/2) toward the bottom of the core (Section 6). Black speckles of fine-grained pyrite occur at certain intervals. Some stain on the cut surface of the core is drilling grease. SMEAR SLIDE SUMMARY (%): <table border="1"> <tr> <td></td> <td>1, 109</td> <td>2, 100</td> <td>3, 73</td> <td>4, 99</td> <td>5, 72</td> <td>6, 11</td> <td>6, 50</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> <td>M</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> COMPOSITION: <table border="1"> <tr> <td>Amphibole</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Bioclast</td> <td>—</td> <td>1</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>—</td> <td>5</td> <td>—</td> <td>19</td> <td>19</td> <td>—</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>10</td> <td>15</td> <td>15</td> <td>5</td> <td>5</td> <td>17</td> <td>10</td> </tr> <tr> <td>Glass</td> <td>Tr</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Inorganic calcite</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>88</td> <td>78</td> <td>84</td> <td>76</td> <td>76</td> <td>82</td> <td>85</td> </tr> <tr> <td>Spicules</td> <td>2</td> <td>1</td> <td>1</td> <td>—</td> <td>—</td> <td>1</td> <td>5</td> </tr> </table>		1, 109	2, 100	3, 73	4, 99	5, 72	6, 11	6, 50		D	D	D	M	D	D	D	Amphibole	Tr	—	—	—	—	—	—	Bioclast	—	1	—	—	—	—	—	Clay	—	5	—	19	19	—	—	Foraminifers	10	15	15	5	5	17	10	Glass	Tr	—	Tr	—	—	—	—	Inorganic calcite	Tr	—	—	—	—	—	—	Mica	—	—	—	Tr	—	—	—	Nannofossils	88	78	84	76	76	82	85	Spicules	2	1	1	—	—	1	5
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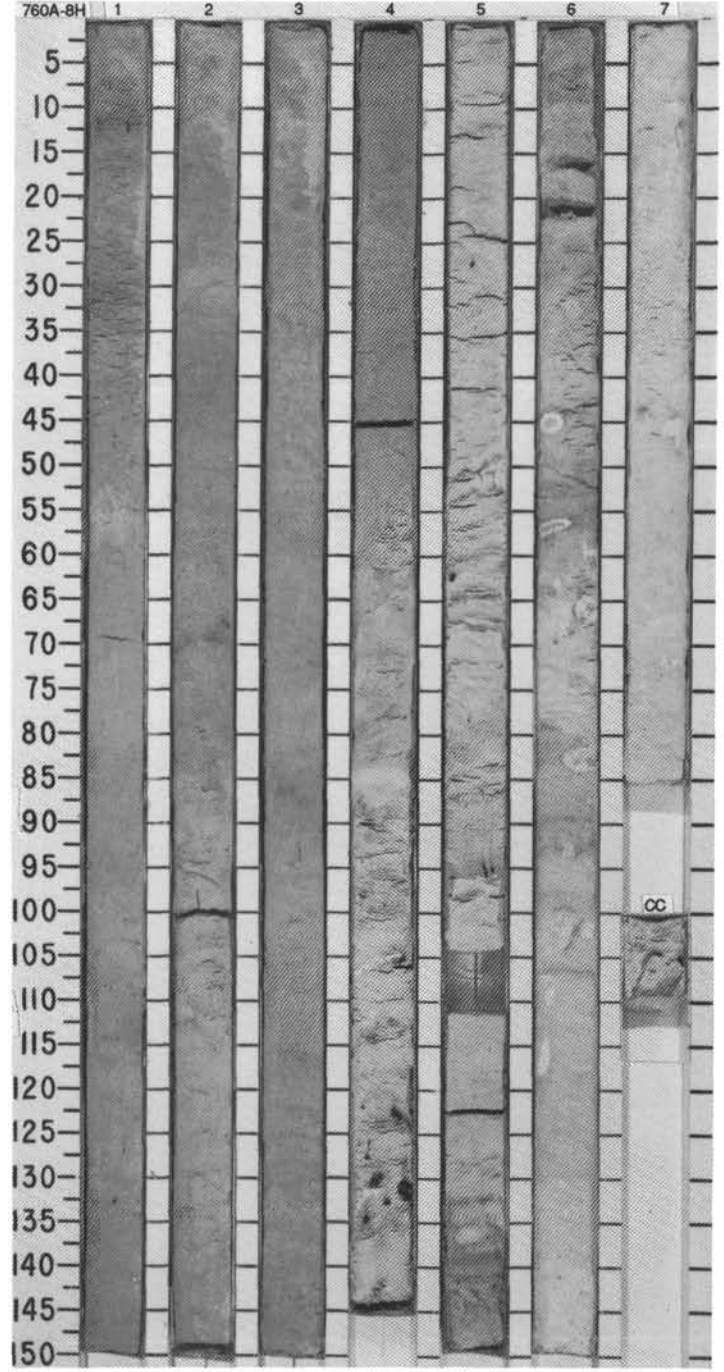


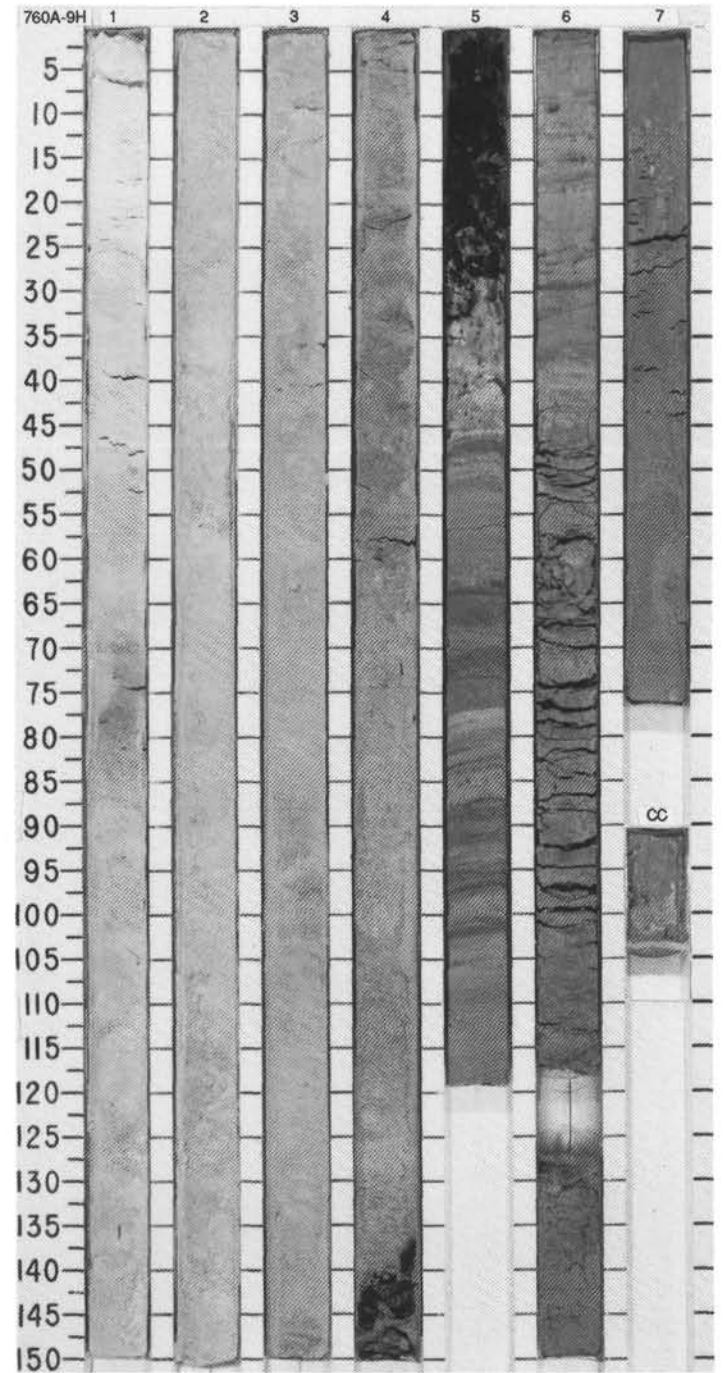
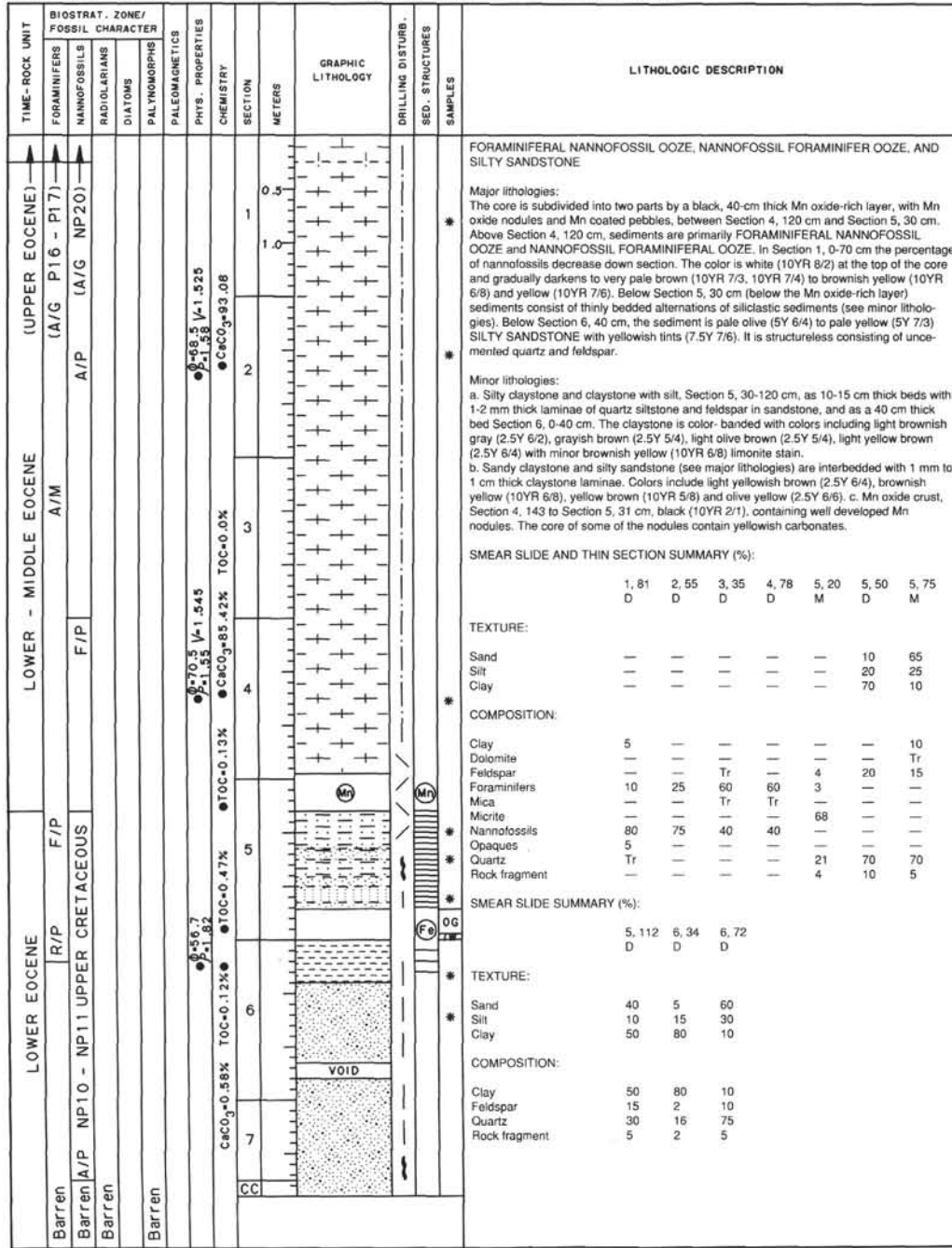
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONS										PALYNOFORMS																																															
UPPER OLIGOCENE	A/G N4a							0.5 1.0					<p>NANNOFOSSIL OOZE WITH FORAMINIFERS</p> <p>Major lithology: NANNOFOSSIL OOZE with FORAMINIFERS, gradual color variations between very pale brown (10YR 7/3, 10YR 8/2) and brownish yellow (10YR 6/6). Smear dark spots thought to be drilling grease are present throughout the core. The nannofossil assemblage contains 10-20% discoasters. Foraminifer percentages change gradually but there are no distinct lithologic breaks.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 68</td> <td>2, 107</td> <td>3, 66</td> <td>4, 72</td> <td>5, 75</td> <td>6, 76</td> <td>7, 31</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>—</td> <td>—</td> <td>Tr</td> <td>Tr</td> <td>—</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Foraminifers</td> <td>10</td> <td>10</td> <td>22</td> <td>20</td> <td>10</td> <td>17</td> <td>15</td> </tr> <tr> <td>Nannofossils</td> <td>83</td> <td>87</td> <td>74</td> <td>75</td> <td>88</td> <td>82</td> <td>84</td> </tr> <tr> <td>Spicules</td> <td>7</td> <td>3</td> <td>4</td> <td>5</td> <td>2</td> <td>1</td> <td>1</td> </tr> </table>		1, 68	2, 107	3, 66	4, 72	5, 75	6, 76	7, 31		D	D	D	D	D	D	D	Accessory minerals	—	—	Tr	Tr	—	Tr	Tr	Foraminifers	10	10	22	20	10	17	15	Nannofossils	83	87	74	75	88	82	84	Spicules	7	3	4	5	2	1	1
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A/G NP25							2																																																						
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(MIDDLE MIOCENE - LOWER OLIGOCENE)							4																																																						
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SITE 760 HOLE A CORE 8H CORED INTERVAL 64.7-74.2 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																																																																	
LOWER OLIGOCENE	P19	P20	A/G NP23		● 0.59, 2 V-1.537 ● 0.51, 1.74	● CaCO ₃ =86.00%	1						<p>NANNOFOSSIL OOZE WITH FORAMINIFERS AND NANNOFOSSIL OOZE</p> <p>Major lithologies: Sections 1, 2, 3 and 4, 0-85 cm is homogeneous, undisturbed NANNOFOSSIL OOZE with FORAMINIFERS, pale yellow (5Y 8/3), structureless and without bioturbation. The boundary with the underlying nannofossil ooze occurs at a sharp color change at Section 4, 82 cm. The NANNOFOSSIL OOZE is white (10YR 8/2, 2.5Y 8/2) to pale yellow (5Y 8/3), and structureless. Bioturbation is common (circular burrows up to 3 cm in diameter in Section 6) and some horizontal layers are visible.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 82</td> <td>2, 51</td> <td>3, 90</td> <td>4, 109</td> <td>5, 76</td> <td>6, 52</td> <td>6, 65</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>M</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>—</td> <td>8</td> <td>—</td> <td>5</td> <td>—</td> <td>7</td> <td>10</td> </tr> <tr> <td>Foraminifers</td> <td>10</td> <td>7</td> <td>10</td> <td>5</td> <td>2</td> <td>5</td> <td>3</td> </tr> <tr> <td>Nannofossils</td> <td>89</td> <td>84</td> <td>90</td> <td>90</td> <td>98</td> <td>88</td> <td>87</td> </tr> <tr> <td>Quartz</td> <td>1</td> <td>1</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Zeolite</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> </table>		1, 82	2, 51	3, 90	4, 109	5, 76	6, 52	6, 65		D	D	D	D	D	D	M	Clay	—	8	—	5	—	7	10	Foraminifers	10	7	10	5	2	5	3	Nannofossils	89	84	90	90	98	88	87	Quartz	1	1	—	—	—	—	—	Zeolite	Tr	—	—	—	—	—	—
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Foraminifers	10	7	10	5	2	5	3																																																														
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Quartz	1	1	—	—	—	—	—																																																														
Zeolite	Tr	—	—	—	—	—	—																																																														
	P18	A/G NP22			● 0.54, 2 V-1.551 ● 0.51, 1.82	● CaCO ₃ =91.25	2																																																														
UPPER EOCENE	P16 - P17	A/G NP20	(MIDDLE UPPER EOCENE)		● 0.59, 7 V-1.527 ● 0.51, 1.74	● CaCO ₃ =92.92% TOC=0.01%	3						<p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>7, 40</td> <td>CC, 2</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>3</td> <td>3</td> </tr> <tr> <td>Foraminifers</td> <td>2</td> <td>2</td> </tr> <tr> <td>Nannofossils</td> <td>95</td> <td>95</td> </tr> <tr> <td>Zeolite</td> <td>Tr</td> <td>—</td> </tr> </table>		7, 40	CC, 2		D	D	Clay	3	3	Foraminifers	2	2	Nannofossils	95	95	Zeolite	Tr	—																																						
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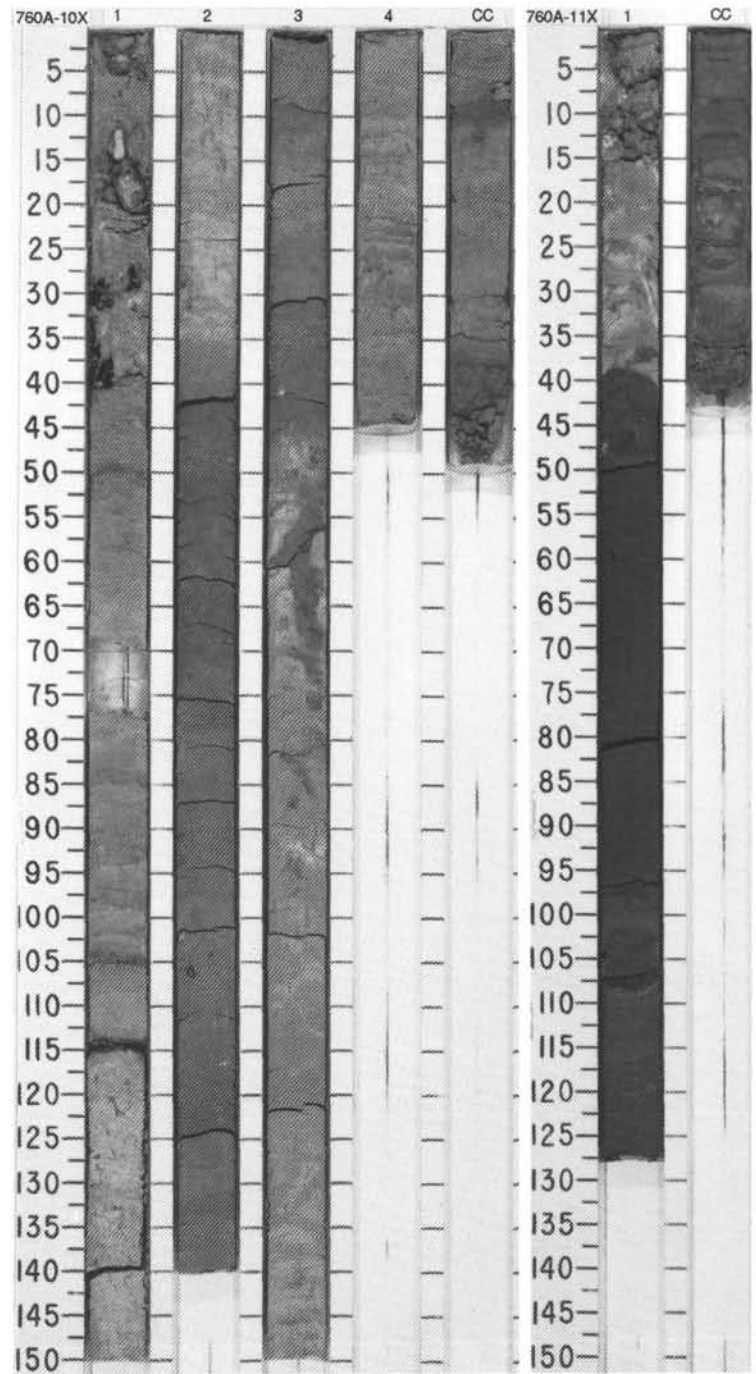


SITE 760 HOLE A CORE 10X CORED INTERVAL 83.7-93.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																																																					
	FORAMINIFERS	MAMMOFOSSILS	RADIOLARIANS	DIATOMS																																																																																																																																															
?	Barren	Barren	Barren	Barren				1	0.5					<p>SANDY SILTSTONE, SILTY CLAYSTONE, AND SILTY SANDSTONE WITH CLAY</p> <p>Major lithologies: This core contains two fining upward sequences, separated by an Mn-oxide layer (Section 1, 115 cm). SANDY SILTSTONE occurs in, Section 1, 0-115 cm, and is light yellowish brown (2.5Y 6/4) and olive yellow (2.5Y 6/6) with manganese nodules. The sandy siltstones are oxidized. Section 4 and the core catcher contains olive yellow (2.5Y 6/8) to yellow (2.5Y 7/6), interbedded, SILTY SANDSTONE WITH CLAY. The base of the Core catcher is also the base of the second fining upward sequence. SILTY CLAYSTONE, Section 1, 112 cm to Section 3, 142 cm, gray (5Y 6/1), grayish brown (2.5Y 4/2, 5/2). Mottling of the silty claystones is probably caused by reworking and the decay of roots.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1,60</td> <td>2,67</td> <td>3,8</td> <td>3,111</td> <td>4,39</td> <td>CC,38</td> </tr> <tr> <td>D</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>30</td> <td>10</td> <td>55</td> <td>10</td> <td>54</td> <td>55</td> </tr> <tr> <td>Silt</td> <td>70</td> <td>30</td> <td>15</td> <td>20</td> <td>32</td> <td>15</td> </tr> <tr> <td>Clay</td> <td>—</td> <td>60</td> <td>30</td> <td>70</td> <td>14</td> <td>30</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>3</td> <td>5</td> <td>5</td> <td>—</td> <td>—</td> <td>5</td> </tr> <tr> <td>Clay</td> <td>—</td> <td>60</td> <td>30</td> <td>70</td> <td>—</td> <td>30</td> </tr> <tr> <td>Feldspar</td> <td>20</td> <td>8</td> <td>15</td> <td>8</td> <td>5</td> <td>15</td> </tr> <tr> <td>Foraminifers</td> <td>2</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Glass</td> <td>2</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Glauconite</td> <td>10</td> <td>1</td> <td>—</td> <td>1</td> <td>3</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>6</td> <td>2</td> <td>5</td> <td>2</td> <td>—</td> <td>5</td> </tr> <tr> <td>Opales</td> <td>—</td> <td>1</td> <td>—</td> <td>3</td> <td>2</td> <td>—</td> </tr> <tr> <td>Plant</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Radiolarians</td> <td>2</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Rock fragment</td> <td>5</td> <td>3</td> <td>5</td> <td>1</td> <td>4</td> <td>5</td> </tr> <tr> <td>Sillimanite</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>1</td> <td>—</td> </tr> <tr> <td>Zircon</td> <td>—</td> <td>Tr</td> <td>—</td> <td>Tr</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>—</td> <td>—</td> <td>40</td> <td>—</td> <td>—</td> <td>—</td> </tr> </table>		1,60	2,67	3,8	3,111	4,39	CC,38	D							Sand	30	10	55	10	54	55	Silt	70	30	15	20	32	15	Clay	—	60	30	70	14	30	Accessory minerals	3	5	5	—	—	5	Clay	—	60	30	70	—	30	Feldspar	20	8	15	8	5	15	Foraminifers	2	—	—	—	—	—	Glass	2	—	—	—	—	—	Glauconite	10	1	—	1	3	—	Mica	6	2	5	2	—	5	Opales	—	1	—	3	2	—	Plant	—	Tr	—	—	Tr	—	Radiolarians	2	—	—	—	—	—	Rock fragment	5	3	5	1	4	5	Sillimanite	—	—	—	—	1	—	Zircon	—	Tr	—	Tr	Tr	—	Quartz	—	—	40	—	—	—
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SITE 760 HOLE A CORE 11X CORED INTERVAL 93.2-102.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																				
	FORAMINIFERS	MAMMOFOSSILS	RADIOLARIANS	DIATOMS																																														
NORIAN	Barren	Barren	Barren	<i>M. crenulatus</i>				1	0.5					<p>SILTY CLAYSTONE AND CLAYSTONE WITH SAND AND SILT</p> <p>Major lithologies: SILTY CLAYSTONE, light gray (2.5Y 7/2), structureless, containing some sand pockets and scattered pyrites, high drilling disturbance. CLAYSTONE with SAND and SILT. Distinguished from the overlying all amounts of clay minerals. High drilling disturbance.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1,25</td> <td>1,68</td> <td>CC,24</td> </tr> <tr> <td>D</td> <td></td> <td></td> <td></td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>10</td> <td>15</td> <td>70</td> </tr> <tr> <td>Silt</td> <td>20</td> <td>20</td> <td>25</td> </tr> <tr> <td>Clay</td> <td>70</td> <td>65</td> <td>5</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>70</td> <td>65</td> <td>5</td> </tr> <tr> <td>Feldspar</td> <td>—</td> <td>10</td> <td>20</td> </tr> <tr> <td>Quartz</td> <td>30</td> <td>25</td> <td>60</td> </tr> <tr> <td>Rock fragment</td> <td>—</td> <td>—</td> <td>15</td> </tr> </table>		1,25	1,68	CC,24	D				Sand	10	15	70	Silt	20	20	25	Clay	70	65	5	Clay	70	65	5	Feldspar	—	10	20	Quartz	30	25	60	Rock fragment	—	—	15
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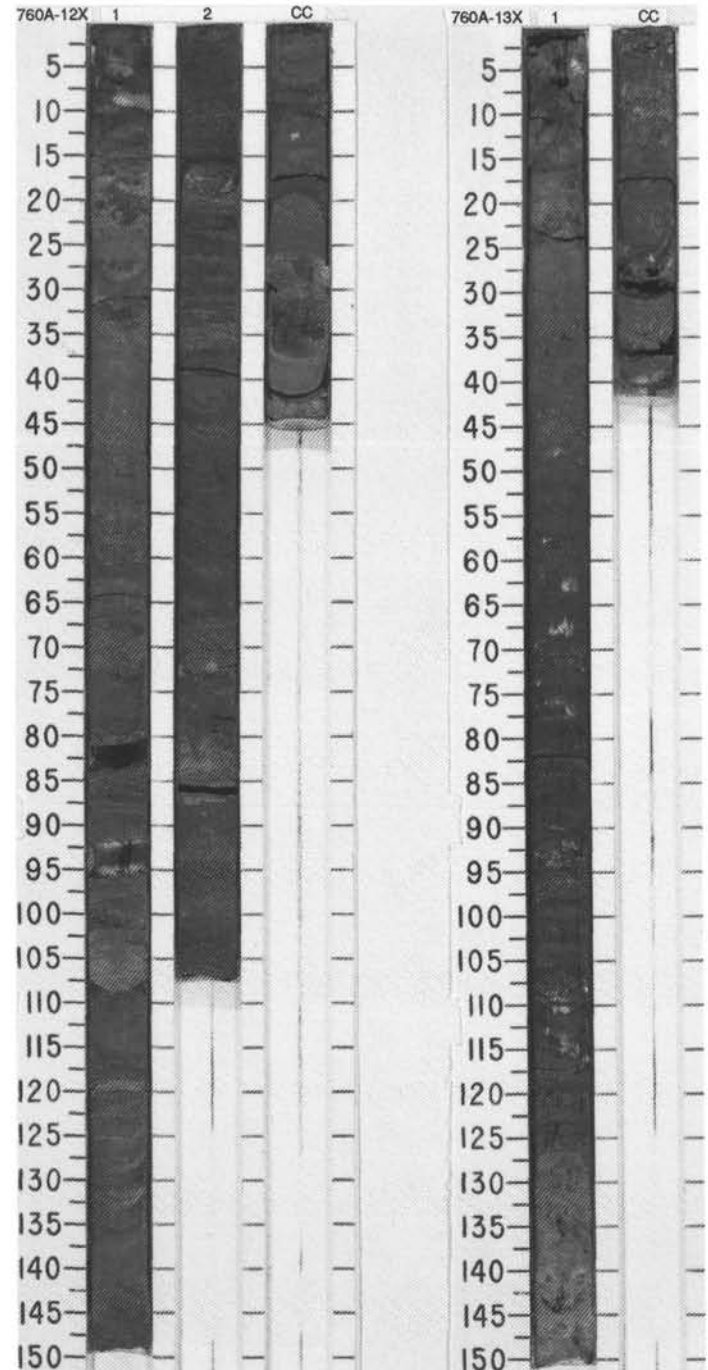


SITE 760 HOLE A CORE 12X CORED INTERVAL 102.7-112.2 mbsf

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																																																																										
NORIAN	Barren	Barren	Barren	Barren	ITOC=0.37%	CaCO ₃ =0.25%	TOC=0.10%	1	0.5				<p>CLAYSTONE AND QUARTZ SANDSTONE WITH SILT</p> <p>Major lithologies: CLAYSTONE, black (7.5YR 2/0). Includes some silt fragments, and is generally structureless, or weakly bioturbated. QUARTZ SANDSTONE with SILT, dark green (5G 4/2), is intercalated in the claystones and shows normal grading and/or parallel lamination.</p> <p>Minor lithologies: a. Dark green (5G 4/2) clayey siltstone (irregular laminae 1-10 mm thick), intercalated in the black claystone and locally disturbed by weak bioturbation. b. Dark grayish brown (2.5Y 3/2) clayey siltstone (7 mm thick), Section CC, 19-19.7 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 104</td> <td>2, 34</td> <td>2, 62</td> <td>CC, 20</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>60</td> <td>70</td> <td>—</td> <td>9</td> </tr> <tr> <td>Silt</td> <td>30</td> <td>20</td> <td>20</td> <td>64</td> </tr> <tr> <td>Clay</td> <td>10</td> <td>10</td> <td>80</td> <td>27</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>5</td> <td>5</td> <td>76</td> <td>25</td> </tr> <tr> <td>Feldspar</td> <td>10</td> <td>5</td> <td>2</td> <td>5</td> </tr> <tr> <td>Glass</td> <td>—</td> <td>Tr</td> <td>2</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Plant</td> <td>—</td> <td>—</td> <td>5</td> <td>2</td> </tr> <tr> <td>Pyroxene</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>50</td> <td>53</td> <td>10</td> <td>45</td> </tr> <tr> <td>Rock fragment</td> <td>35</td> <td>37</td> <td>5</td> <td>23</td> </tr> </table>		1, 104	2, 34	2, 62	CC, 20		D	D	D	M	Sand	60	70	—	9	Silt	30	20	20	64	Clay	10	10	80	27	Clay	5	5	76	25	Feldspar	10	5	2	5	Glass	—	Tr	2	—	Mica	—	—	—	—	Plant	—	—	5	2	Pyroxene	—	Tr	—	—	Quartz	50	53	10	45	Rock fragment	35	37	5	23
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SITE 760 HOLE A CORE 13X CORED INTERVAL 112.2-116.2 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																																							
NORIAN	Barren	Barren	Barren	Barren	ITOC=0.52%	CaCO ₃ =0.33%	TOC=1.27%	1	0.5				<p>QUARTZ SILTY CLAYSTONE</p> <p>Major lithology: QUARTZ SILTY CLAYSTONE, black (2.5Y 7/2), homogeneous. Contains plant debris.</p> <p>Minor lithology: Carbonate silty claystone, light gray (2.5Y 7/2). Occurs as small (0.5-1 cm) nodules or as diffused patches in the black sediment (Section 1, 95-150 cm, CC, 6-17 cm). Moderately disturbed (biscuit) by drilling.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 10</td> <td>1, 110</td> </tr> <tr> <td></td> <td>D</td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>—</td> <td>2</td> </tr> <tr> <td>Silt</td> <td>40</td> <td>30</td> </tr> <tr> <td>Clay</td> <td>60</td> <td>68</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Carbonate</td> <td>—</td> <td>27</td> </tr> <tr> <td>Clay</td> <td>60</td> <td>68</td> </tr> <tr> <td>Opacues</td> <td>10</td> <td>5</td> </tr> <tr> <td>Plant</td> <td>7</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>23</td> <td>—</td> </tr> </table>		1, 10	1, 110		D	M	Sand	—	2	Silt	40	30	Clay	60	68	Carbonate	—	27	Clay	60	68	Opacues	10	5	Plant	7	—	Quartz	23	—
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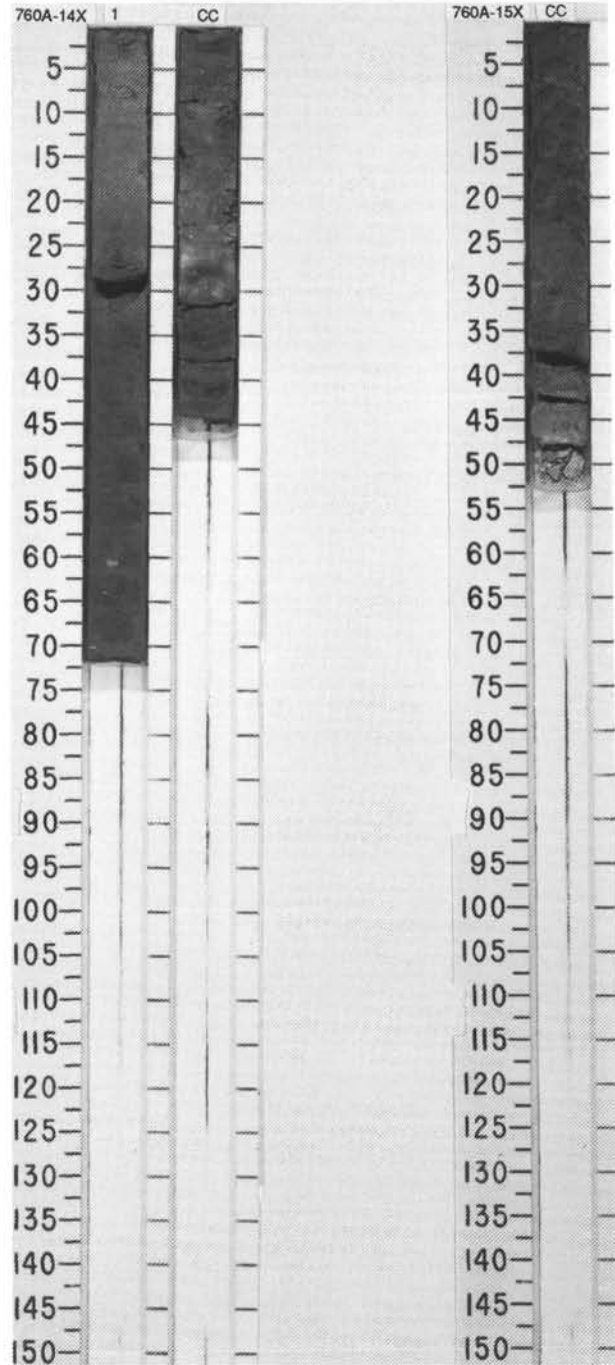


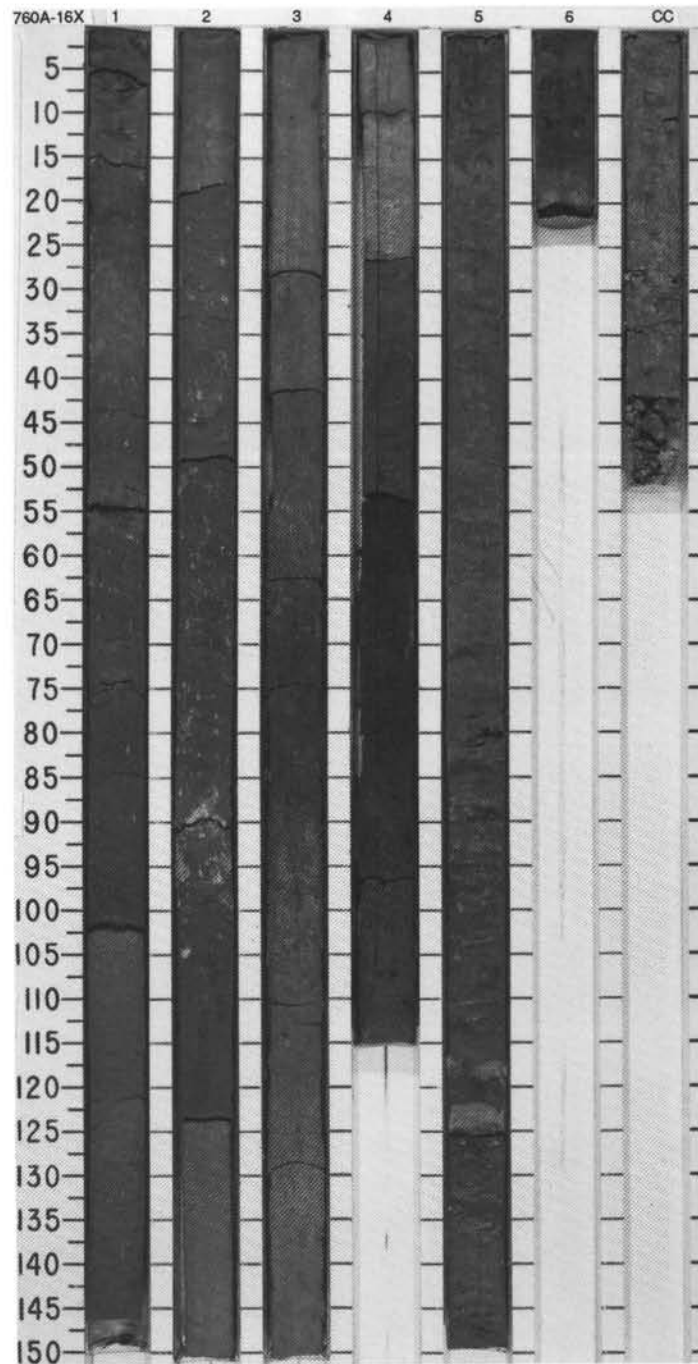
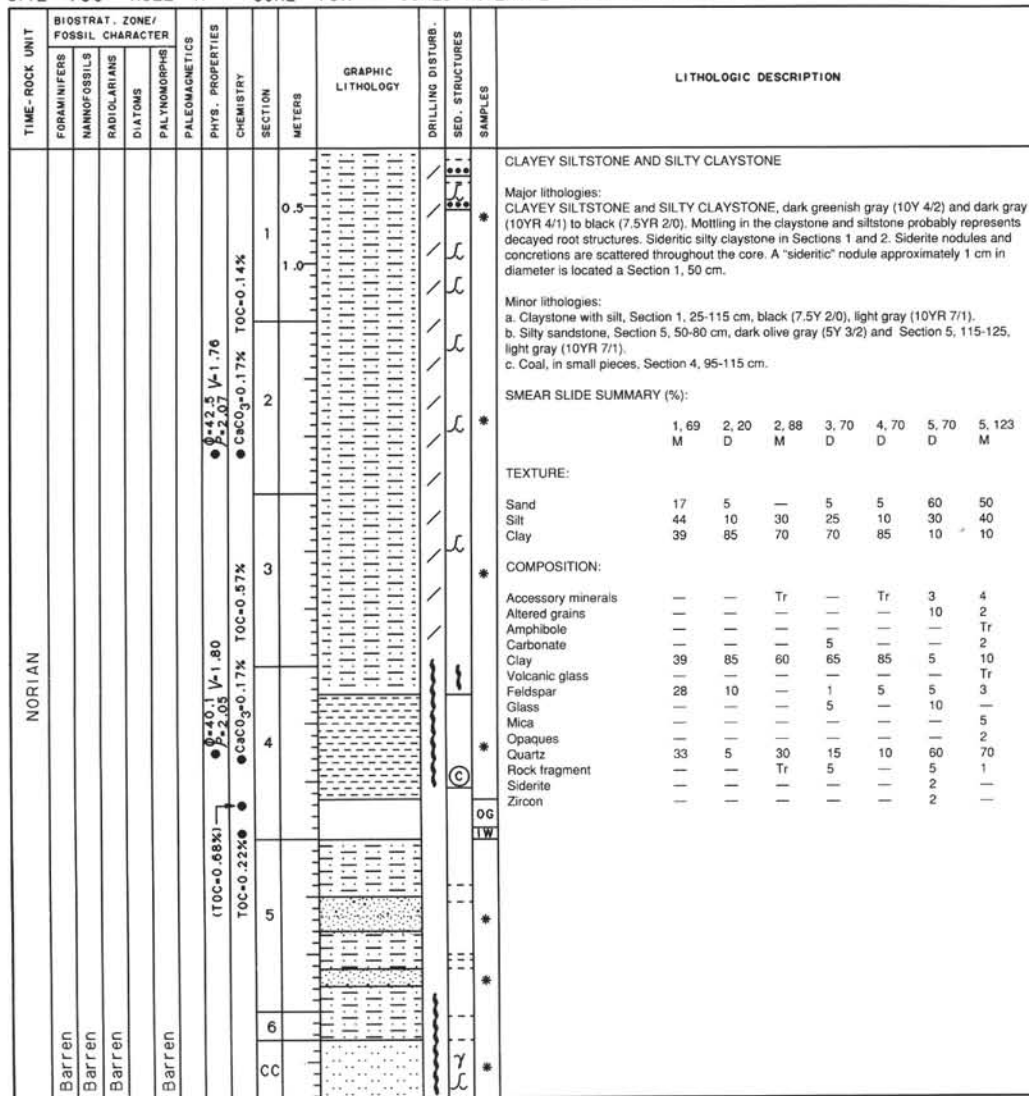
SITE 760 HOLE A CORE 14X CORED INTERVAL 116.2-125.7 mbsf

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	PALYNOMORPHS																																																														
NORIAN	Barren	Barren			Barren	TOC=0.07% V=1.75 P=2.05	41.1 2.05	TOC=0.17%	1 0.5 CC		* * * *	<p>SILTY CLAYSTONE WITH SAND AND SILTY SANDSTONE WITH CLAY</p> <p>Major lithologies: SILTY CLAYSTONE with SAND, grayish green (5G 5/2), containing small amounts of phosphate; some pale red (5R 6/6) irregular bands, or spots with similar composition. SILTY SANDSTONE with clay grayish green (5G 5/2). Consists of quartz, feldspar, clay and small amounts of glauconite; poorly consolidated. Moderately disturbed by drilling.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 16</td> <td>1, 48</td> <td>1, 64</td> <td>CC, 26</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>10</td> <td>20</td> <td>55</td> <td>60</td> </tr> <tr> <td>Silt</td> <td>25</td> <td>10</td> <td>30</td> <td>40</td> </tr> <tr> <td>Clay</td> <td>65</td> <td>70</td> <td>15</td> <td>—</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>5</td> <td>—</td> <td>5</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>65</td> <td>75</td> <td>15</td> <td>—</td> </tr> <tr> <td>Feldspar</td> <td>10</td> <td>5</td> <td>10</td> <td>10</td> </tr> <tr> <td>Opauques</td> <td>—</td> <td>—</td> <td>—</td> <td>10</td> </tr> <tr> <td>Phosphate</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>20</td> <td>20</td> <td>70</td> <td>80</td> </tr> </table>		1, 16	1, 48	1, 64	CC, 26		D	D	D	M	Sand	10	20	55	60	Silt	25	10	30	40	Clay	65	70	15	—	Accessory minerals	5	—	5	—	Clay	65	75	15	—	Feldspar	10	5	10	10	Opauques	—	—	—	10	Phosphate	Tr	—	—	—	Quartz	20	20	70	80
	1, 16	1, 48	1, 64	CC, 26																																																															
	D	D	D	M																																																															
Sand	10	20	55	60																																																															
Silt	25	10	30	40																																																															
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Accessory minerals	5	—	5	—																																																															
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Opauques	—	—	—	10																																																															
Phosphate	Tr	—	—	—																																																															
Quartz	20	20	70	80																																																															

SITE 760 HOLE A CORE 15X CORED INTERVAL 125.7-135.2 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	PALYNOMORPHS																																							
NORIAN	Barren	Barren	Barren		Barren			CC		* * *	<p>SILTY CLAYSTONE AND CLAYEY SILTSTONE</p> <p>Major lithologies: SILTY CLAYSTONE, very dark gray (2.5Y 3/0), structureless or bioturbated and in terbedded with grayish green (5G 5/2) SANDY SILTSTONE, locally parallel lamination.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>CC, 15</td> <td>CC, 30</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>6</td> <td>30</td> </tr> <tr> <td>Silt</td> <td>25</td> <td>60</td> </tr> <tr> <td>Clay</td> <td>69</td> <td>10</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>62</td> <td>5</td> </tr> <tr> <td>Feldspar</td> <td>3</td> <td>5</td> </tr> <tr> <td>Glass</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Mica</td> <td>—</td> <td>1</td> </tr> <tr> <td>Quartz</td> <td>25</td> <td>40</td> </tr> <tr> <td>Rock fragment</td> <td>10</td> <td>49</td> </tr> </table>		CC, 15	CC, 30		D	D	Sand	6	30	Silt	25	60	Clay	69	10	Clay	62	5	Feldspar	3	5	Glass	—	Tr	Mica	—	1	Quartz	25	40	Rock fragment	10	49
	CC, 15	CC, 30																																										
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Sand	6	30																																										
Silt	25	60																																										
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Mica	—	1																																										
Quartz	25	40																																										
Rock fragment	10	49																																										



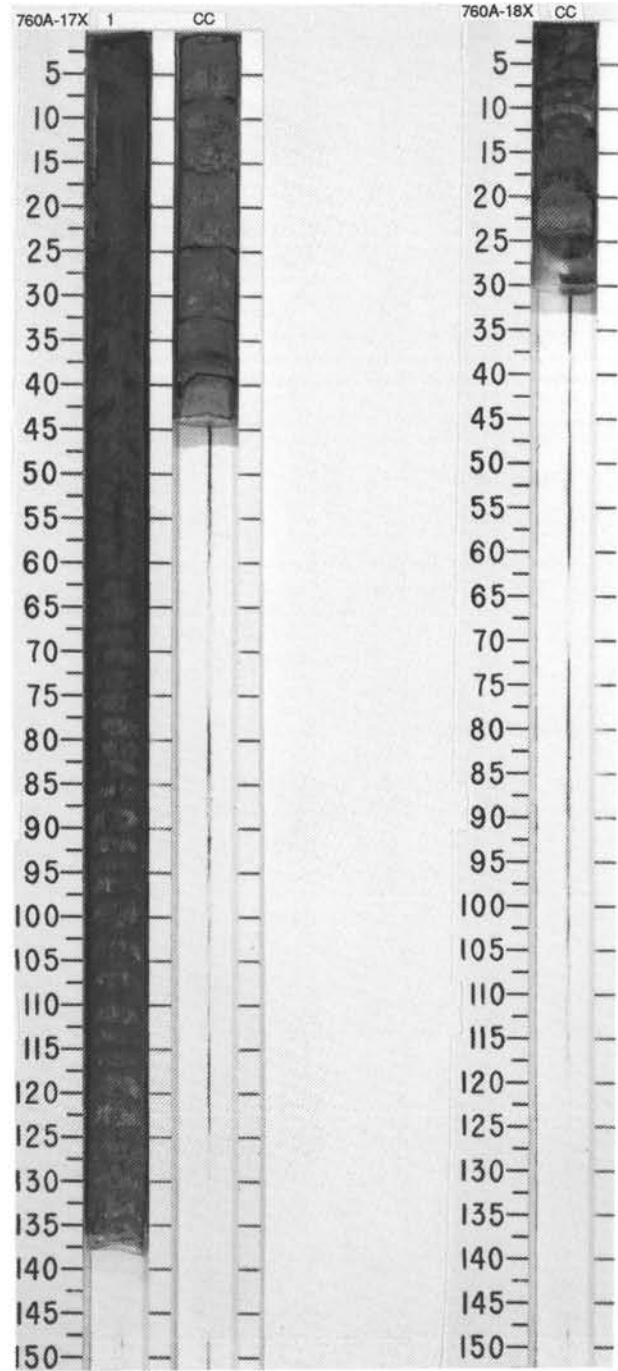


SITE 760 HOLE A CORE 17X CORED INTERVAL 144.7-154.2 mbsf

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																																																				
NORIAN	Barren	Barren	Barren	Barren	(TOC=0.46%) V-1.918 2.17	-0.08% TOC=0.11%	CC				*	<p>SILTY CLAYSTONE</p> <p>Major lithology: SILTY CLAYSTONE, black (7.5YR 2/2) to very dark gray (7.5YR 3/0), structureless. Partly dark brown (7.5Y 3/2) in Section 1, 7-31 cm.</p> <p>Minor lithologies: a. Siltstone with sand and clay, dark greenish gray (10Y 5/2) in CC, 37-45 cm. b. Scattered sideritic silty claystone concretions, 1-3 mm in diameter, in Section 1, 94-150 cm and CC, 0-35 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 20</td> <td>1, 96</td> <td>CC, 42</td> </tr> <tr> <td></td> <td>M</td> <td>D</td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>3</td> <td>5</td> <td>17</td> </tr> <tr> <td>Silt</td> <td>25</td> <td>45</td> <td>63</td> </tr> <tr> <td>Clay</td> <td>72</td> <td>50</td> <td>20</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>50</td> <td>39</td> <td>15</td> </tr> <tr> <td>Feldspar</td> <td>7</td> <td>7</td> <td>5</td> </tr> <tr> <td>Fish</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Plant</td> <td>3</td> <td>5</td> <td>10</td> </tr> <tr> <td>Quartz</td> <td>30</td> <td>32</td> <td>50</td> </tr> <tr> <td>Rock fragment</td> <td>10</td> <td>17</td> <td>20</td> </tr> </table>		1, 20	1, 96	CC, 42		M	D	M	Sand	3	5	17	Silt	25	45	63	Clay	72	50	20	Clay	50	39	15	Feldspar	7	7	5	Fish	Tr	—	—	Plant	3	5	10	Quartz	30	32	50	Rock fragment	10	17	20
	1, 20	1, 96	CC, 42																																																					
	M	D	M																																																					
Sand	3	5	17																																																					
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Fish	Tr	—	—																																																					
Plant	3	5	10																																																					
Quartz	30	32	50																																																					
Rock fragment	10	17	20																																																					

SITE 760 HOLE A CORE 18X CORED INTERVAL 154.2-163.7 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																										
NORIAN	Barren	Barren	Barren	Barren	V-1.602		CC				*	<p>SILTY CLAYSTONE AND SANDY SILTSTONE</p> <p>Major lithologies: SILTY CLAYSTONE, black (2.5Y 2/0), CLAYSTONE, dusky red (10R 3/2), and SANDY SILTSTONE, dark olive gray (5Y 3/2). The dusky red claystone is interbedded between the black silty claystone above and the sandy siltstone below.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>CC, 15</td> </tr> <tr> <td></td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>35</td> </tr> <tr> <td>Silt</td> <td>60</td> </tr> <tr> <td>Clay</td> <td>5</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>Opagues</td> <td>5</td> </tr> <tr> <td>Quartz</td> <td>90</td> </tr> </table>		CC, 15		M	Sand	35	Silt	60	Clay	5	Clay	5	Feldspar	Tr	Opagues	5	Quartz	90
	CC, 15																													
	M																													
Sand	35																													
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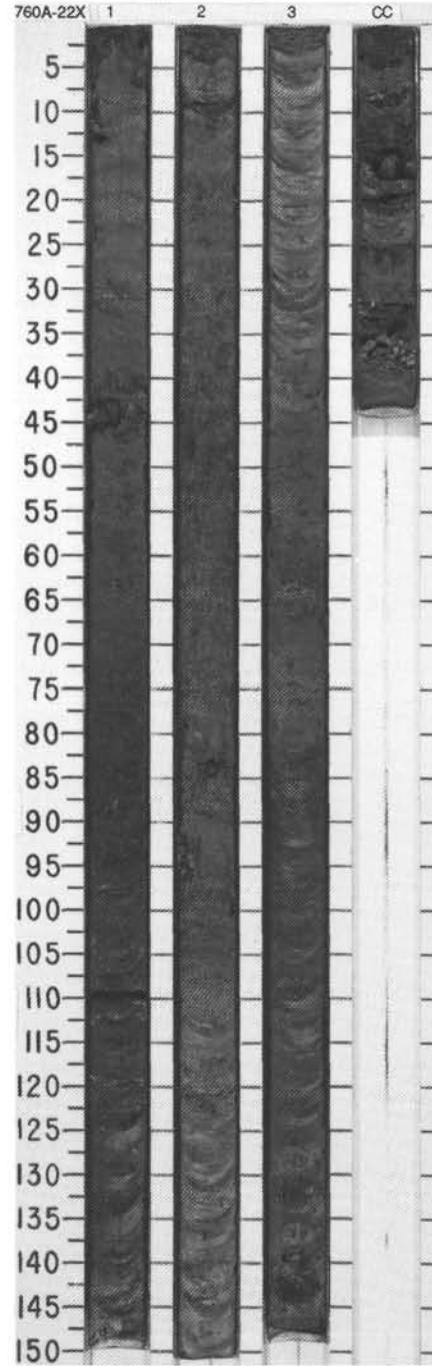
SITE 760 HOLE A CORE 20X CORED INTERVAL 173.2-182.7 mbsf

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											PALYNOMORPHS																																																							
NORIAN	Barren	Barren	Barren											<p>SILTY CLAYSTONE</p> <p>Major lithologies: SILTY CLAYSTONE, black (2.5Y 2/0), generally structureless and intercalated with dark greenish gray (10Y 5/2), 1-10 mm thick layers of quartz siltstone with sand.</p> <p>Minor lithologies: a. Quartz siltstone with sand, dark greenish gray (10Y 5/2), 1-10 mm thick layers. Some quartz siltstones show distinct normal grading with sharp flat basal surfaces. Slight bioturbations throughout the core. b. Siltstone concretion with carbonate matrix (5 cm in diameter) in Section 1, 5-10 cm. c. Scattered sideritic silty claystone concretions in Section 1, 95-120 cm. d. Siliceous claystone concretions in Section 2, 115-125 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>2, 90</td> <td>2, 97</td> <td>CC, 45</td> </tr> <tr> <td></td> <td>D</td> <td>M</td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>5</td> <td>13</td> <td>25</td> </tr> <tr> <td>Silt</td> <td>40</td> <td>82</td> <td>50</td> </tr> <tr> <td>Clay</td> <td>55</td> <td>5</td> <td>25</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Altered grains</td> <td>—</td> <td>—</td> <td>10</td> </tr> <tr> <td>Clay</td> <td>52</td> <td>—</td> <td>—</td> </tr> <tr> <td>Feldspar</td> <td>5</td> <td>7</td> <td>—</td> </tr> <tr> <td>Fish</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Glauconite</td> <td>Tr</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Montmorillonite</td> <td>—</td> <td>—</td> <td>30</td> </tr> <tr> <td>Opeques</td> <td>—</td> <td>—</td> <td>20</td> </tr> <tr> <td>Quartz</td> <td>30</td> <td>70</td> <td>40</td> </tr> <tr> <td>Rock fragment</td> <td>10</td> <td>20</td> <td>—</td> </tr> </table>		2, 90	2, 97	CC, 45		D	M	M	Sand	5	13	25	Silt	40	82	50	Clay	55	5	25	Altered grains	—	—	10	Clay	52	—	—	Feldspar	5	7	—	Fish	Tr	—	—	Glauconite	Tr	Tr	—	Montmorillonite	—	—	30	Opeques	—	—	20	Quartz	30	70	40	Rock fragment	10	20	—
	2, 90	2, 97	CC, 45																																																																			
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Rock fragment	10	20	—																																																																			

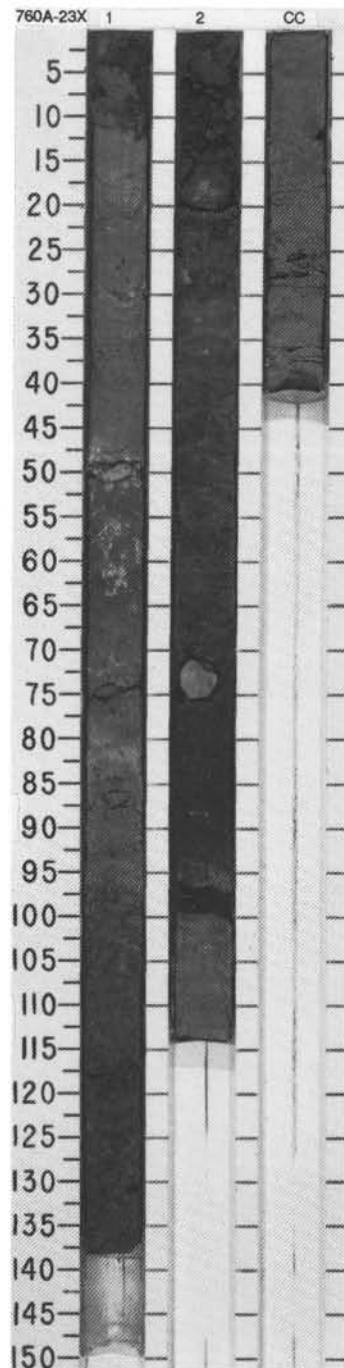


SITE 760 HOLE A CORE 22X CORED INTERVAL 187.9-192.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALYMONOPHS																																																							
NORIAN	Barren					1	0.5					<p>SILTY CLAYSTONE AND SANDY SILTY CLAYSTONE</p> <p>Major lithologies: SILTY CLAYSTONE, dark greenish gray (10Y 5/2) to very dark greenish gray (10Y 3/2), and SANDY SILTY CLAYSTONE, dark greenish gray (10Y 5/2).</p> <p>Minor lithologies: a. Siderite concretions, 2-4 cm wide Section 1, 42 cm, and Section 2, 84 cm. b. Light gray to white granules, 3 cm thick, CC, 35-38 cm. c. Black (N2) material, organic?, in CC, 31-35 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 70</td> <td>2, 70</td> <td>3, 100</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>—</td> <td>25</td> <td>—</td> </tr> <tr> <td>Silt</td> <td>35</td> <td>25</td> <td>35</td> </tr> <tr> <td>Clay</td> <td>65</td> <td>50</td> <td>65</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Altered grains</td> <td>10</td> <td>10</td> <td>—</td> </tr> <tr> <td>Carbonate</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>50</td> <td>50</td> <td>55</td> </tr> <tr> <td>Glauconite</td> <td>Tr</td> <td>—</td> <td>1</td> </tr> <tr> <td>Opaques</td> <td>10</td> <td>5</td> <td>9</td> </tr> <tr> <td>Quartz</td> <td>30</td> <td>35</td> <td>35</td> </tr> <tr> <td>Zircon</td> <td>—</td> <td>Tr</td> <td>Tr</td> </tr> </table>		1, 70	2, 70	3, 100	D	D	D	D	Sand	—	25	—	Silt	35	25	35	Clay	65	50	65	Altered grains	10	10	—	Carbonate	—	—	Tr	Clay	50	50	55	Glauconite	Tr	—	1	Opaques	10	5	9	Quartz	30	35	35	Zircon	—	Tr	Tr
		1, 70	2, 70	3, 100																																																								
	D	D	D	D																																																								
Sand	—	25	—																																																									
Silt	35	25	35																																																									
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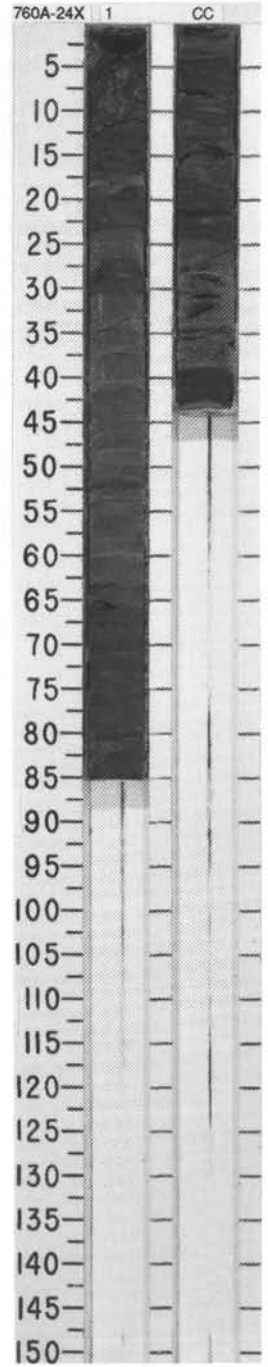


TIME - ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																										
NORIAN	Barren	Barren	Barren	Barren	IC8C ₀₃ =4.17% TOC=0.11% V ₁ .73 V ₂ .20 V ₃ .3																																																									
														<p>* SILTY CLAYSTONE, AND CLAYEY SANDSTONE</p> <p>Major lithologies: Alternating layers of dark greenish gray (5BG 4/1), massive SILTY CLAYSTONE with fine sand and silt, and greenish gray (5GY 5/1), structureless, CLAYEY SANDSTONE with black carbonaceous blebs and speckles. The boundaries between these lithologies are transitional and are expressed by very graded changes in the composition. Greenish gray (5G 5/1), structureless, poorly sorted SILTSTONE WITH CLAY in Section 2, 95 cm to CC, 40 cm).</p> <p>Minor lithologies: a. Large pyrite nodules in Section 2, 70-75 cm. b. Carbonaceous blebs, specks, streaks and laminae scattered throughout, which are interpreted to be rootlets. c. A reddish horizon in Section 1, 35-37 cm consisting of red blebs and speckles of iron oxidation with carbonaceous laminae (paleosol). d. Calcareous nodule (siderite) or possibly calcite (caliche crust) at Section 1, 50 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 15</td> <td>2, 55</td> <td>CC, 6</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>—</td> <td>36</td> <td>—</td> </tr> <tr> <td>Silt</td> <td>36</td> <td>5</td> <td>85</td> </tr> <tr> <td>Clay</td> <td>64</td> <td>59</td> <td>15</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>64</td> <td>59</td> <td>15</td> </tr> <tr> <td>Feldspar</td> <td>25</td> <td>10</td> <td>19</td> </tr> <tr> <td>Glauconite</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>Tr</td> <td>Tr</td> <td>1</td> </tr> <tr> <td>Opauques</td> <td>—</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Plant</td> <td>1</td> <td>30</td> <td>65</td> </tr> <tr> <td>Quartz</td> <td>10</td> <td>30</td> <td>65</td> </tr> </table>		1, 15	2, 55	CC, 6	D	D	D	D	Sand	—	36	—	Silt	36	5	85	Clay	64	59	15	Clay	64	59	15	Feldspar	25	10	19	Glauconite	Tr	—	—	Mica	Tr	Tr	1	Opauques	—	1	Tr	Plant	1	30	65	Quartz	10	30	65
	1, 15	2, 55	CC, 6																																																											
D	D	D	D																																																											
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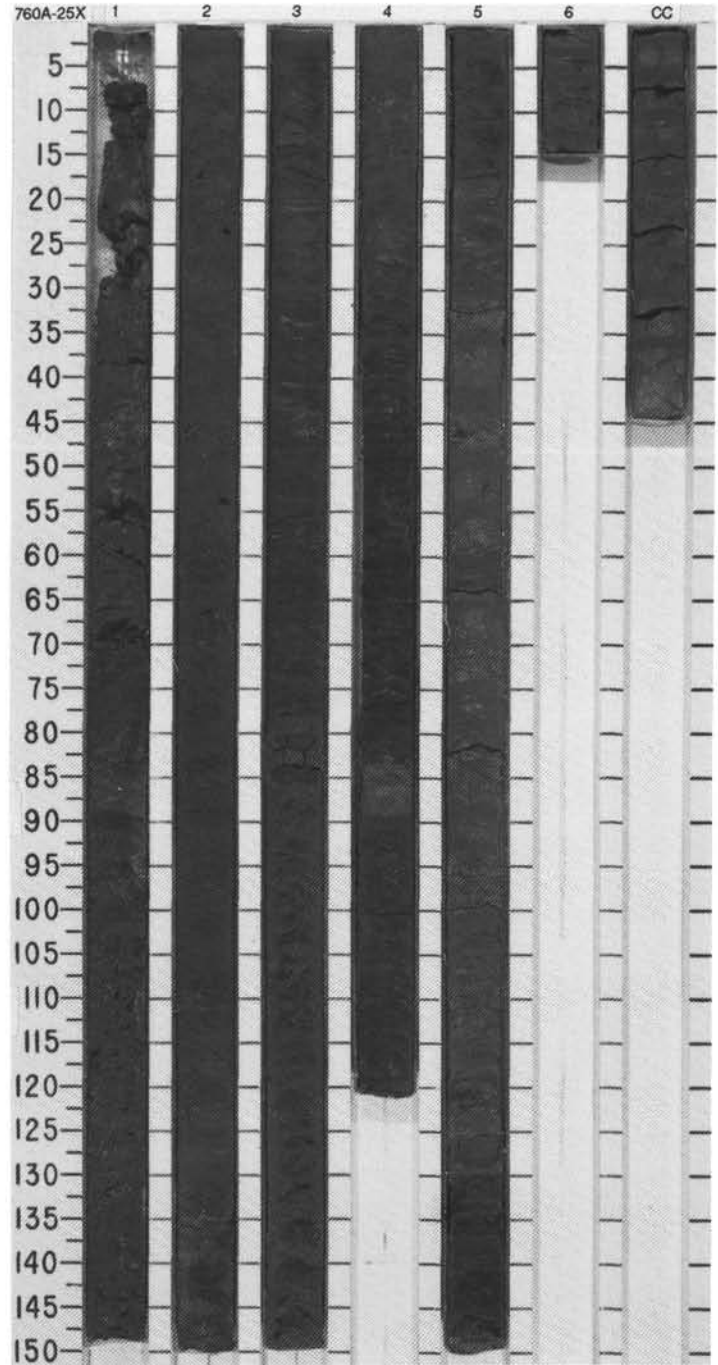


SITE 760 HOLE A CORE 24X CORED INTERVAL 197.9-203.9 mbsf

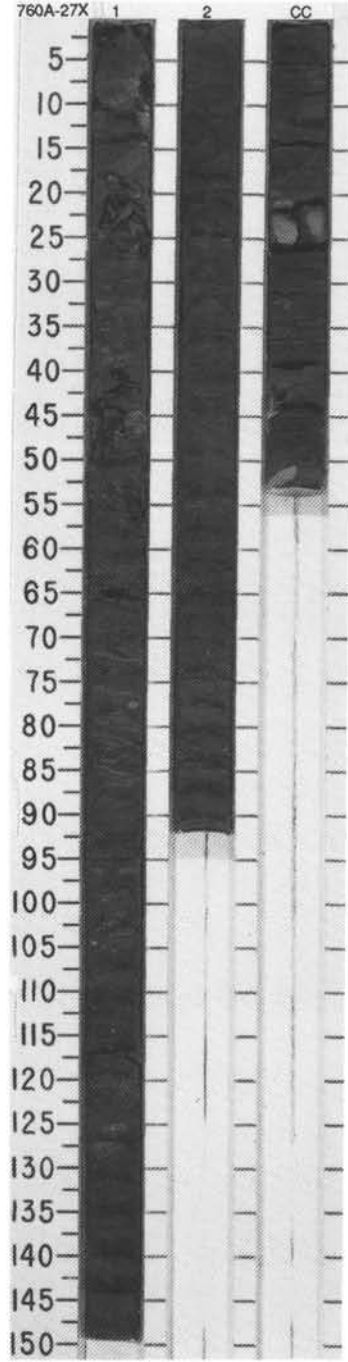
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																										
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																				
NORIAN					(TOC=0.80%) 0.4.0 2.0.7	TOC=0.42%	CC	1					*	<p>SILTY SANDSTONE AND SILTY CLAYSTONE</p> <p>Major lithologies: SILTY SANDSTONE, greenish gray (5GY 5/1), finely parallel-and/or cross- laminated, interbedded with SILTY CLAYSTONE, very dark gray (5Y 3/1). Opposite dipping cross-lamination sets in CC, 20-45 cm may be a result of "biscuit" rotation rather than bidirectional currents. Silty claystone is massive but locally includes silty sand streaks. Cuplets of silty sand and silty clay show a thickening upward sequence in Section 1, 22-51 cm (possibly biscuiting).</p> <p>Minor lithology: A pyrite concretion in the silty claystone (CC, 18-19 cm).</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>1, 25</td> <td>CC, 5</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="0"> <tr> <td>Sand</td> <td>60</td> <td>Tr</td> </tr> <tr> <td>Silt</td> <td>35</td> <td>40</td> </tr> <tr> <td>Clay</td> <td>5</td> <td>60</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Accessory minerals</td> <td>2</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>5</td> <td>58</td> </tr> <tr> <td>Feldspar</td> <td>35</td> <td>9</td> </tr> <tr> <td>Glauconite</td> <td>4</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>5</td> <td>6</td> </tr> <tr> <td>Opauques</td> <td>2</td> <td>8</td> </tr> <tr> <td>Rock fragments</td> <td>3</td> <td>4</td> </tr> <tr> <td>Rutile</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>44</td> <td>15</td> </tr> </table>		1, 25	CC, 5		D	D	Sand	60	Tr	Silt	35	40	Clay	5	60	Accessory minerals	2	—	Clay	5	58	Feldspar	35	9	Glauconite	4	—	Mica	5	6	Opauques	2	8	Rock fragments	3	4	Rutile	Tr	—	Quartz	44	15
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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	DIAZONES										PALEOMAGNETICS																																																																																																																																																																
NORIAN	Barren						0.5						<p>SILTY CLAYSTONE AND CLAYEY SANDY SILTSTONE</p> <p>Major lithologies: The majority of the sediment is grayish green (5G 5/2), greenish gray (5GY 5/1, 5BG 5/1) and dark gray (5Y 4/1), although additional colors are provided by the soil structures including brownish yellow (10YR 6/8) and black (10YR 2/1). SILTY CLAYSTONE, very dark gray (10YR 3/1) in Section 1, 33-84 cm (0-33 cm too disturbed to identify); dark gray (5Y 4/1) and black (5Y 2.5/1), with silt laminae in Section 4, 7 cm to Section 5, 33 cm; soil structures in Section 5, 33 cm through CC, 44 cm. CLAYEY SANDY SILTSTONE, dark bluish gray (5B6 4/1), in Section 1, 84 cm to Section 2, 110 cm, mm-size pyrite nodules are present, sedimentary structures rarely visible; black (5Y 2.5) with gray (5Y 6/1) laminae in Section 2, 110 cm to Section 3, 79 cm; dark gray (5Y 4/1) and very dark gray (5Y 3/1), with broken and unidentified sedimentary structures in Section 3, 79 cm to Section 4, 07 cm.</p> <p>Minor lithologies: a. Coal fragment at Section 1, 115 cm. b. Pyrite nodules</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 29</td> <td>1, 75</td> <td>1, 103</td> <td>2, 61</td> <td>2, 73</td> <td>3, 33</td> <td>3, 119</td> </tr> <tr> <td></td> <td>M</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>25</td> <td>5</td> <td>30</td> <td>40</td> <td>35</td> <td>Tr</td> <td>20</td> </tr> <tr> <td>Silt</td> <td>40</td> <td>30</td> <td>45</td> <td>25</td> <td>20</td> <td>30</td> <td>35</td> </tr> <tr> <td>Clay</td> <td>35</td> <td>65</td> <td>25</td> <td>35</td> <td>45</td> <td>70</td> <td>45</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>—</td> <td>5</td> <td>7</td> <td>3</td> <td>5</td> <td>—</td> <td>5</td> </tr> <tr> <td>Clay</td> <td>45</td> <td>60</td> <td>40</td> <td>47</td> <td>46</td> <td>69</td> <td>53</td> </tr> <tr> <td>Feldspar</td> <td>17</td> <td>10</td> <td>15</td> <td>20</td> <td>15</td> <td>10</td> <td>20</td> </tr> <tr> <td>Mica</td> <td>5</td> <td>3</td> <td>8</td> <td>8</td> <td>5</td> <td>2</td> <td>5</td> </tr> <tr> <td>Opauques</td> <td>13</td> <td>7</td> <td>10</td> <td>5</td> <td>4</td> <td>4</td> <td>7</td> </tr> <tr> <td>Quartz</td> <td>20</td> <td>10</td> <td>20</td> <td>12</td> <td>25</td> <td>15</td> <td>10</td> </tr> <tr> <td>Rock fragment</td> <td>—</td> <td>5</td> <td>—</td> <td>5</td> <td>—</td> <td>—</td> <td>—</td> </tr> </table> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>4, 36</td> <td>5, 57</td> <td>5, 114</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>Sand</td> <td>5</td> <td>6</td> <td>27</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>25</td> <td>22</td> <td>40</td> <td>27</td> </tr> <tr> <td>Clay</td> <td>76</td> <td>69</td> <td>45</td> <td>66</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>3</td> <td>3</td> <td>5</td> <td>4</td> </tr> <tr> <td>Clay</td> <td>76</td> <td>69</td> <td>45</td> <td>66</td> </tr> <tr> <td>Dolomite</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Feldspar</td> <td>8</td> <td>12</td> <td>27</td> <td>12</td> </tr> <tr> <td>Mica</td> <td>5</td> <td>4</td> <td>5</td> <td>3</td> </tr> <tr> <td>Opauques</td> <td>4</td> <td>2</td> <td>—</td> <td>3</td> </tr> <tr> <td>Quartz</td> <td>4</td> <td>8</td> <td>14</td> <td>8</td> </tr> <tr> <td>Rock fragment</td> <td>—</td> <td>2</td> <td>4</td> <td>4</td> </tr> </table>		1, 29	1, 75	1, 103	2, 61	2, 73	3, 33	3, 119		M	D	D	D	D	D	D	Sand	25	5	30	40	35	Tr	20	Silt	40	30	45	25	20	30	35	Clay	35	65	25	35	45	70	45	Accessory minerals	—	5	7	3	5	—	5	Clay	45	60	40	47	46	69	53	Feldspar	17	10	15	20	15	10	20	Mica	5	3	8	8	5	2	5	Opauques	13	7	10	5	4	4	7	Quartz	20	10	20	12	25	15	10	Rock fragment	—	5	—	5	—	—	—		4, 36	5, 57	5, 114	CC, 41		D	D	D	D	Sand	5	6	27	5	Silt	25	22	40	27	Clay	76	69	45	66	Accessory minerals	3	3	5	4	Clay	76	69	45	66	Dolomite	—	Tr	—	—	Feldspar	8	12	27	12	Mica	5	4	5	3	Opauques	4	2	—	3	Quartz	4	8	14	8	Rock fragment	—	2	4	4
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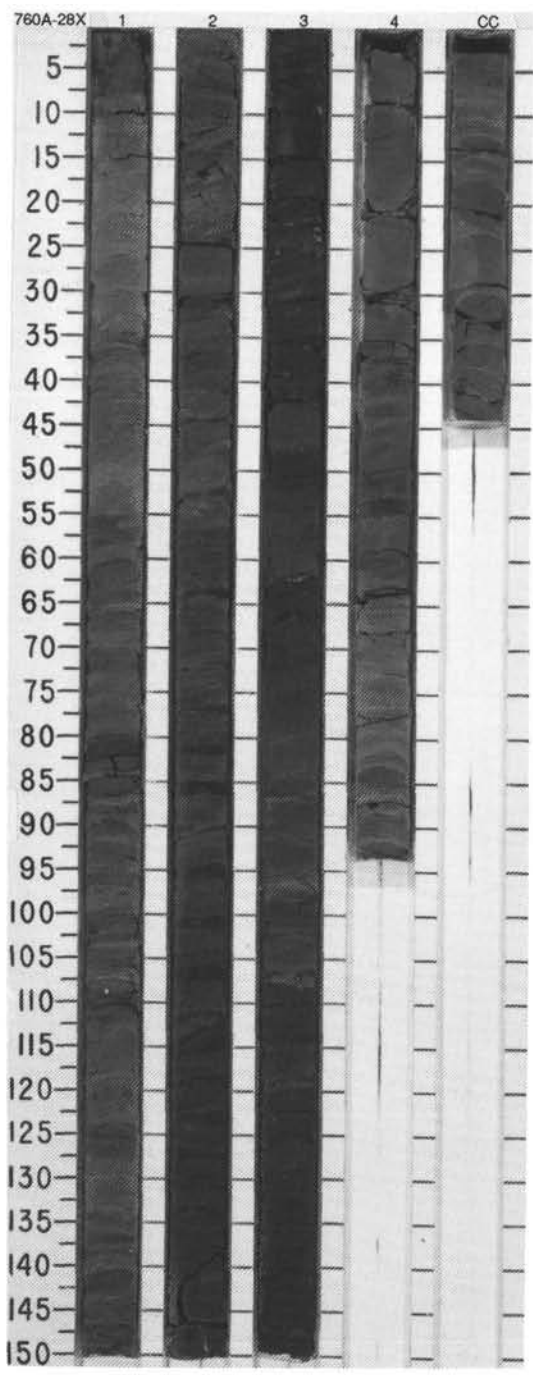


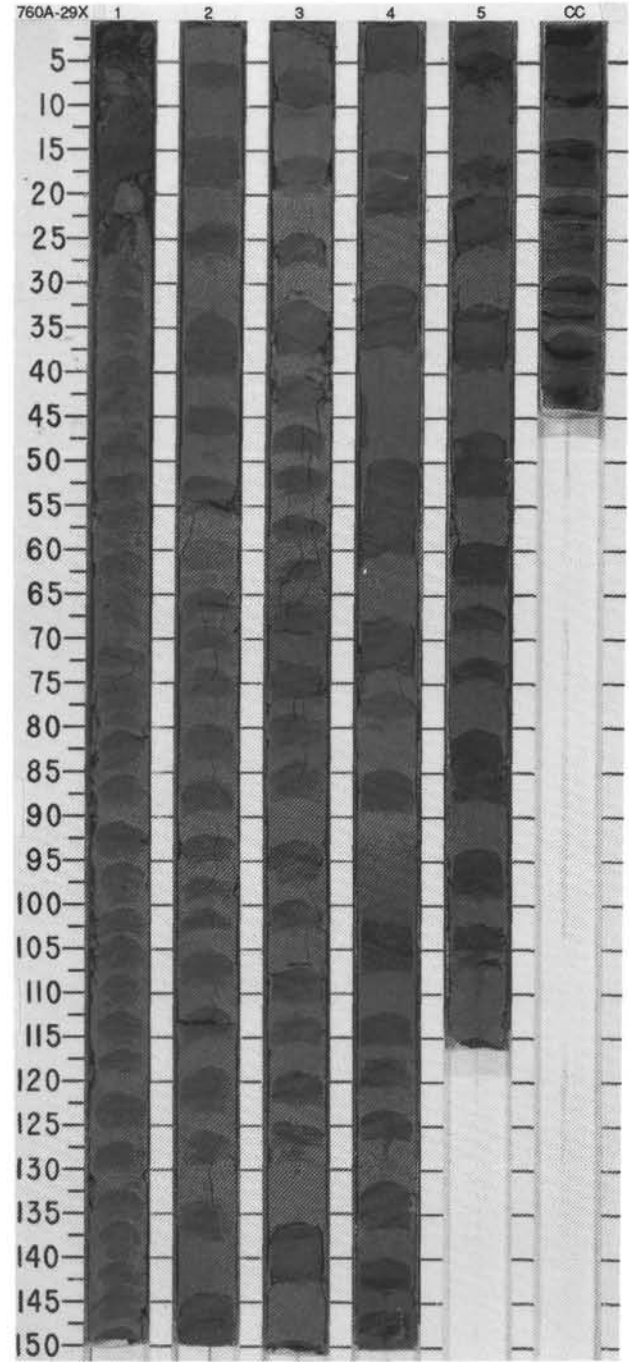
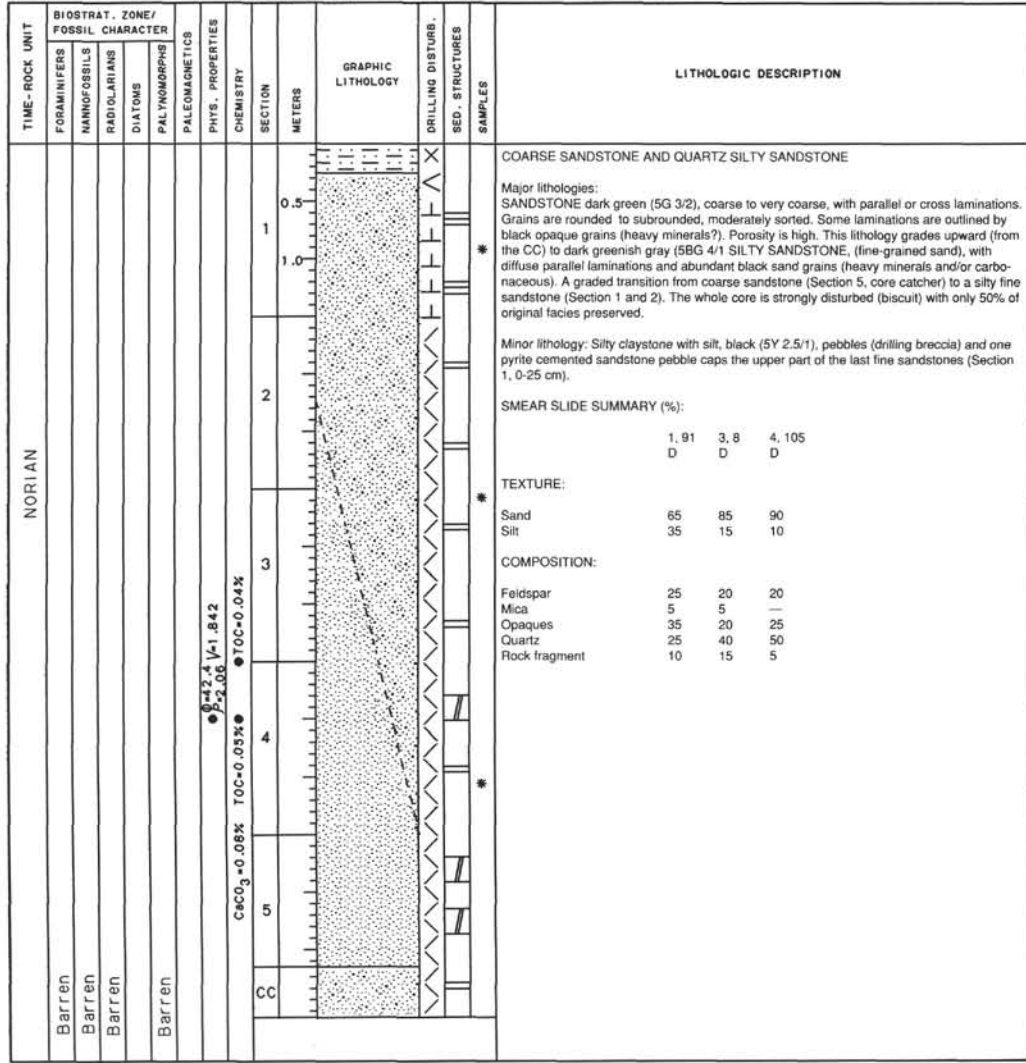
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																									
NORIAN	Barren	Barren	Barren										<p>SILTY CLAYSTONE</p> <p>Major lithology: SILTY CLAYSTONE, very dark gray (10YR 3/1), with lithic, feldspar, quartz and carbonaceous grains. Laminations of gray (10YR 5/1) silty partings.</p> <p>Minor lithologies:</p> <p>a. Gray (10YR 5/1) clayey siltstone and siltstone laminae. b. Gray (10YR 5/1) clayey siderite bed in CC, 20-25 cm. c. Gray (10YR 5/1) quartz sandstone pebble, very fine-grained and pyritic in CC, 51-53 cm. d. Pyrite nodules, 0.4 to 2 cm wide.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 80</td> <td>2, 45</td> <td>CC, 20</td> </tr> <tr> <td></td> <td>M</td> <td>D</td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>—</td> <td>—</td> <td>10</td> </tr> <tr> <td>Silt</td> <td>95</td> <td>50</td> <td>55</td> </tr> <tr> <td>Clay</td> <td>5</td> <td>50</td> <td>35</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>5</td> <td>50</td> <td>35</td> </tr> <tr> <td>Feldspar</td> <td>10</td> <td>10</td> <td>3</td> </tr> <tr> <td>Opagues</td> <td>5</td> <td>—</td> <td>—</td> </tr> <tr> <td>Other</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>30</td> <td>—</td> <td>2</td> </tr> <tr> <td>Rock fragment</td> <td>50</td> <td>28</td> <td>—</td> </tr> <tr> <td>Siderite</td> <td>—</td> <td>—</td> <td>60</td> </tr> </table>		1, 80	2, 45	CC, 20		M	D	M	Sand	—	—	10	Silt	95	50	55	Clay	5	50	35	Clay	5	50	35	Feldspar	10	10	3	Opagues	5	—	—	Other	—	—	—	Quartz	30	—	2	Rock fragment	50	28	—	Siderite	—	—	60
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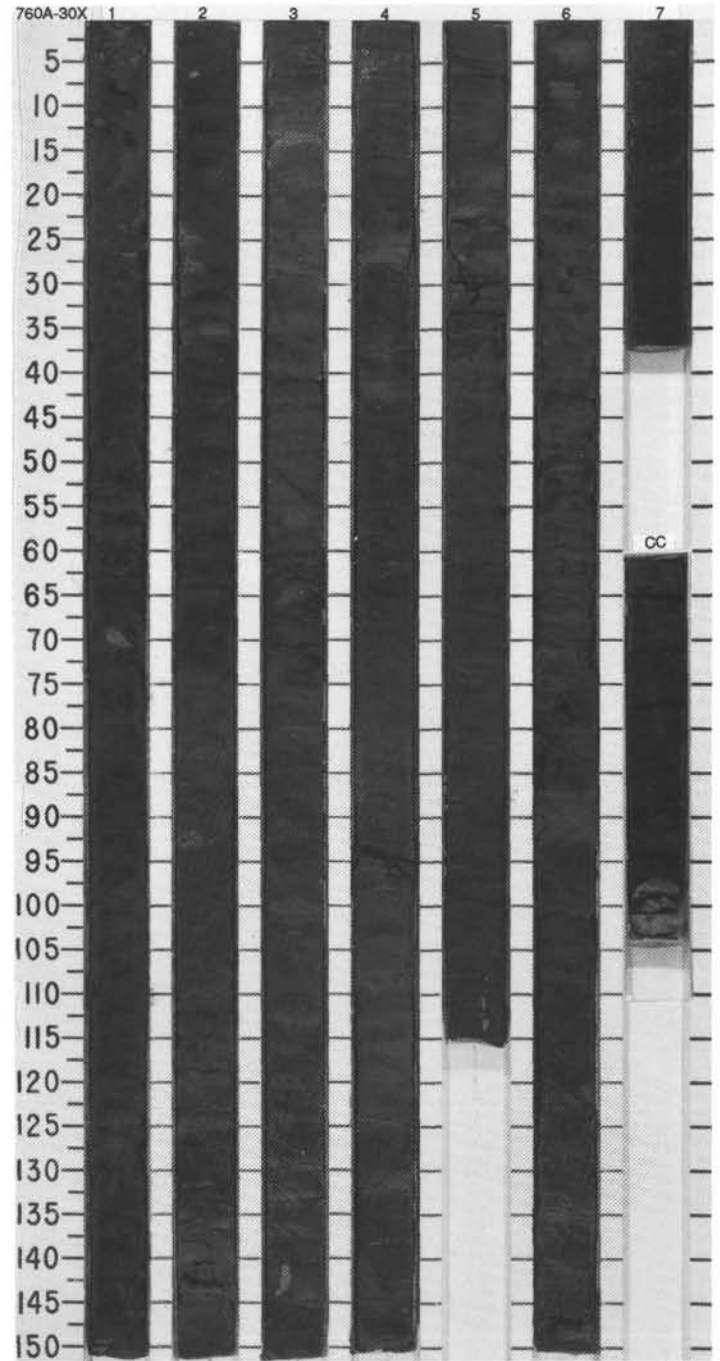
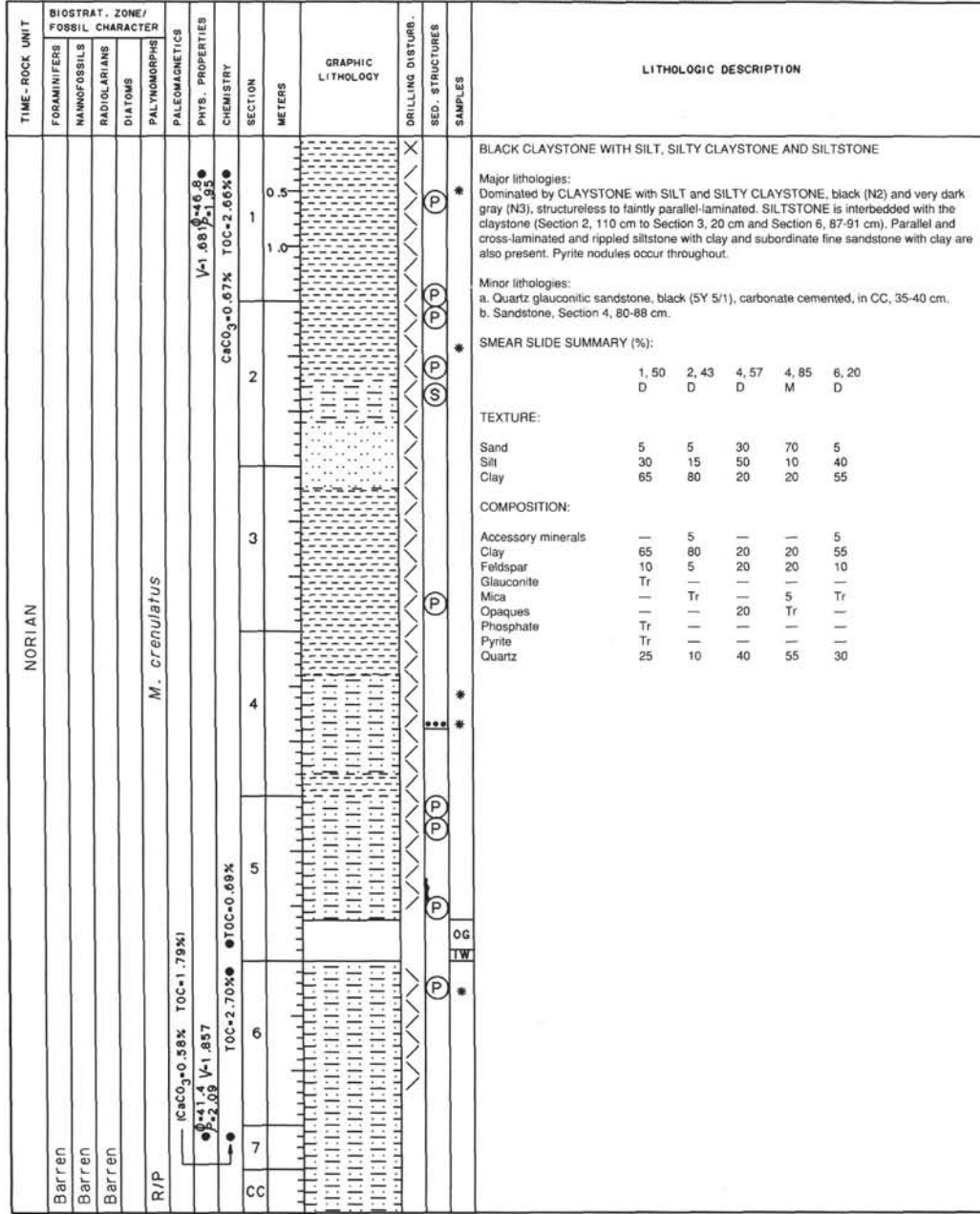
SITE 760 HOLE A CORE 28X CORED INTERVAL 217.9-222.9 mbsf

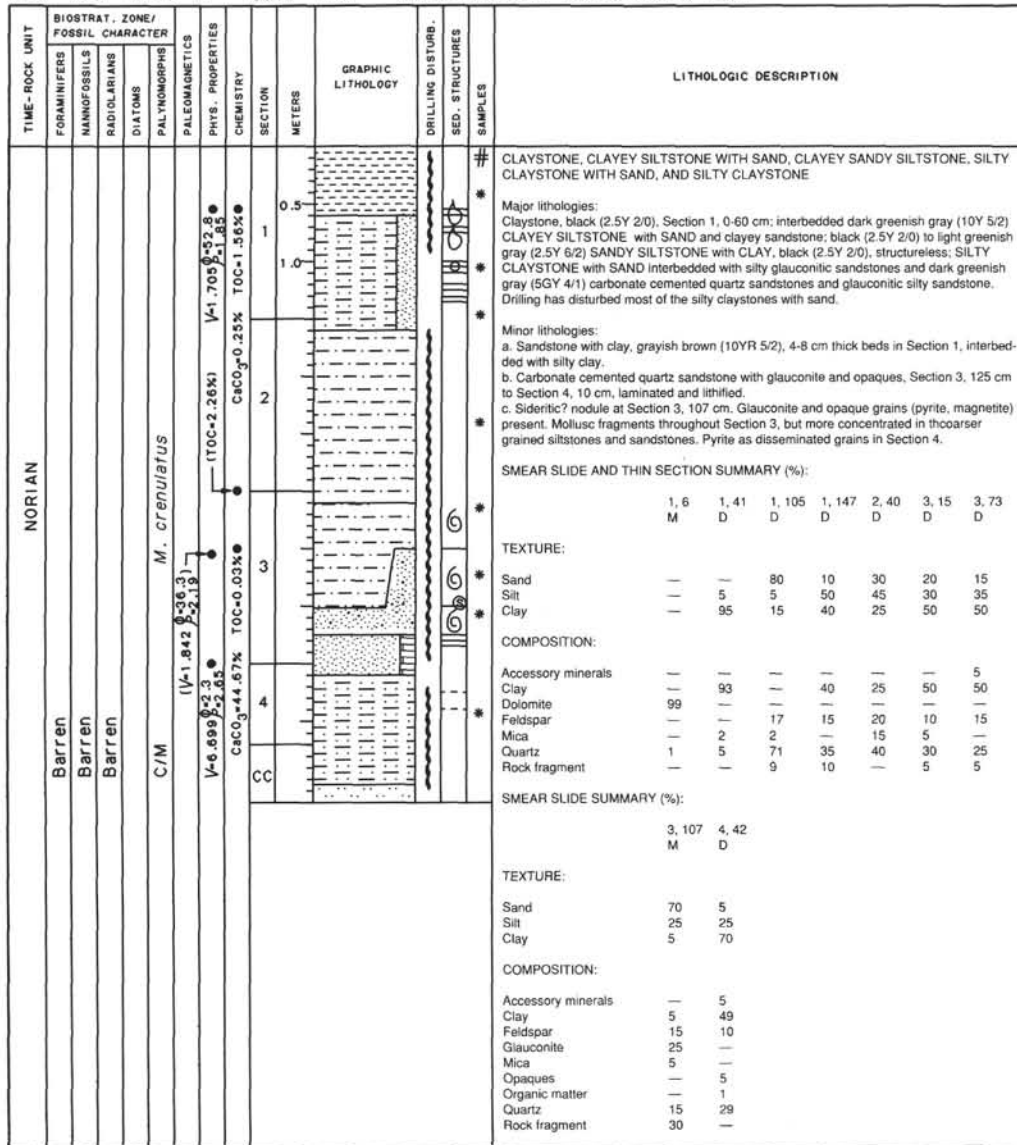
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTORB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																									
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NORIAN	Barren	Barren	Barren	Barren	(C+CO ₂)=0.17% TOC=1.05% ● V=1.847 ● V=1.97 ● V=1.743 ● V=2.13 ● V=2.13 TOC=0.10%	1	[Graphic Lithology: Fine sandstone with clay and silt]	[Drilling Disturbance: None]	[Samples: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150]	<p>SILTSTONE, SANDSTONE WITH CLAY, CLAYSTONE WITH SILT AND SILTY CLAYSTONE</p> <p>Major lithologies: SILTSTONE and fine SANDSTONE with CLAY and SILT, dark greenish gray (5GY 5/1), poorly consolidated to unconsolidated, in Section 1 to Section 2, 5 cm. Section 4 and core catcher, parallel laminae and small-scale oblique laminae, coarser sandstone rich in wood (?) fragments. Dark greenish gray (5GY 4/1, 5GY 3/1) and black (N2, N3), burrow-mottled CLAYSTONE WITH SILT and SILTY CLAYSTONE between Section 2, 5 cm and Section 3, 150 cm.</p> <p>Minor lithologies: a. Poorly consolidated and parallelaminated fine-grained clayey sandstones, interbedded in the b. Claystone at Section 2, 25-30 cm and 54-58 cm. c. Pyrite nodules in Section 3, 20-25 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 27</td> <td>1, 62</td> <td>1, 80</td> <td>2, 125</td> <td>3, 45</td> <td>4, 26</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>M</td> <td>D</td> <td>M</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>60</td> <td>—</td> <td>65</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Silt</td> <td>20</td> <td>28</td> <td>5</td> <td>23</td> <td>30</td> <td>100</td> </tr> <tr> <td>Clay</td> <td>20</td> <td>72</td> <td>30</td> <td>77</td> <td>70</td> <td>—</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> <td>—</td> </tr> <tr> <td>Clay</td> <td>20</td> <td>72</td> <td>30</td> <td>77</td> <td>70</td> <td>—</td> </tr> <tr> <td>Feldspar</td> <td>10</td> <td>13</td> <td>Tr</td> <td>7</td> <td>3</td> <td>30</td> </tr> <tr> <td>Glauconite</td> <td>—</td> <td>—</td> <td>55</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>—</td> <td>Tr</td> <td>5</td> <td>2</td> <td>2</td> <td>Tr</td> </tr> <tr> <td>Opauques</td> <td>2</td> <td>Tr</td> <td>—</td> <td>1</td> <td>—</td> <td>—</td> </tr> <tr> <td>Plant debris</td> <td>—</td> <td>—</td> <td>—</td> <td>3</td> <td>5</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>25</td> <td>15</td> <td>10</td> <td>10</td> <td>20</td> <td>70</td> </tr> <tr> <td>Rock fragment</td> <td>44</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Siderite</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> </table>		1, 27	1, 62	1, 80	2, 125	3, 45	4, 26		D	D	M	D	M	D	Sand	60	—	65	—	—	—	Silt	20	28	5	23	30	100	Clay	20	72	30	77	70	—	Accessory minerals	—	Tr	—	—	—	—	Clay	20	72	30	77	70	—	Feldspar	10	13	Tr	7	3	30	Glauconite	—	—	55	—	—	—	Mica	—	Tr	5	2	2	Tr	Opauques	2	Tr	—	1	—	—	Plant debris	—	—	—	3	5	—	Quartz	25	15	10	10	20	70	Rock fragment	44	—	—	—	—	—	Siderite	Tr	—	—	—	—	—
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						2	[Graphic Lithology: Claystone]	[Drilling Disturbance: None]	[Samples: 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150]																																																																																																										



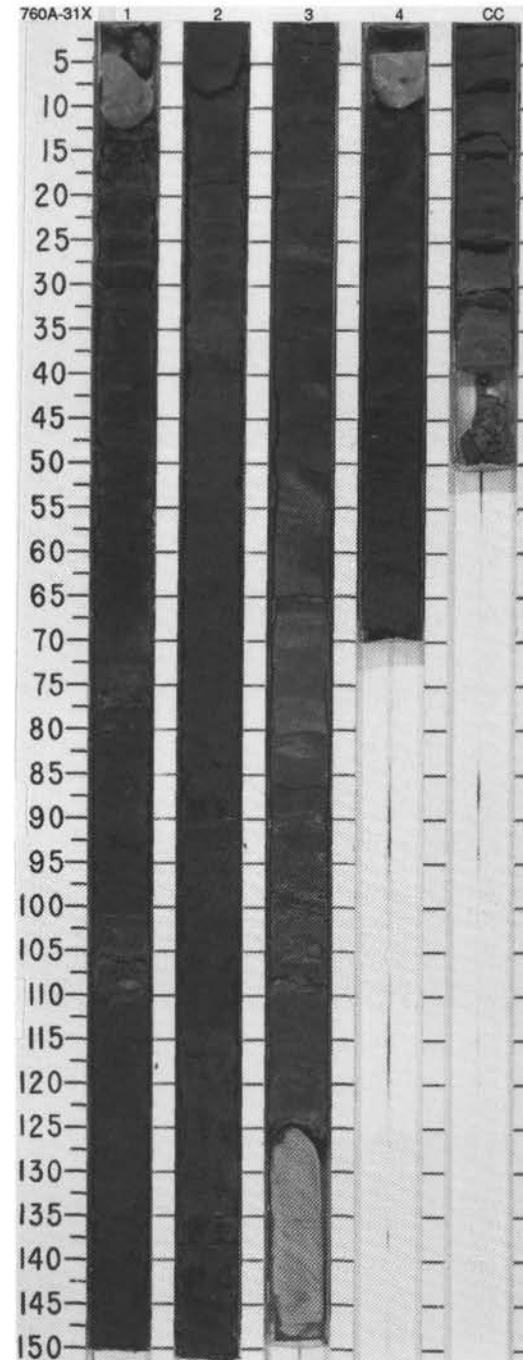


SITE 760 HOLE A CORE 30X CORED INTERVAL 232.4 -241.9 mbsf



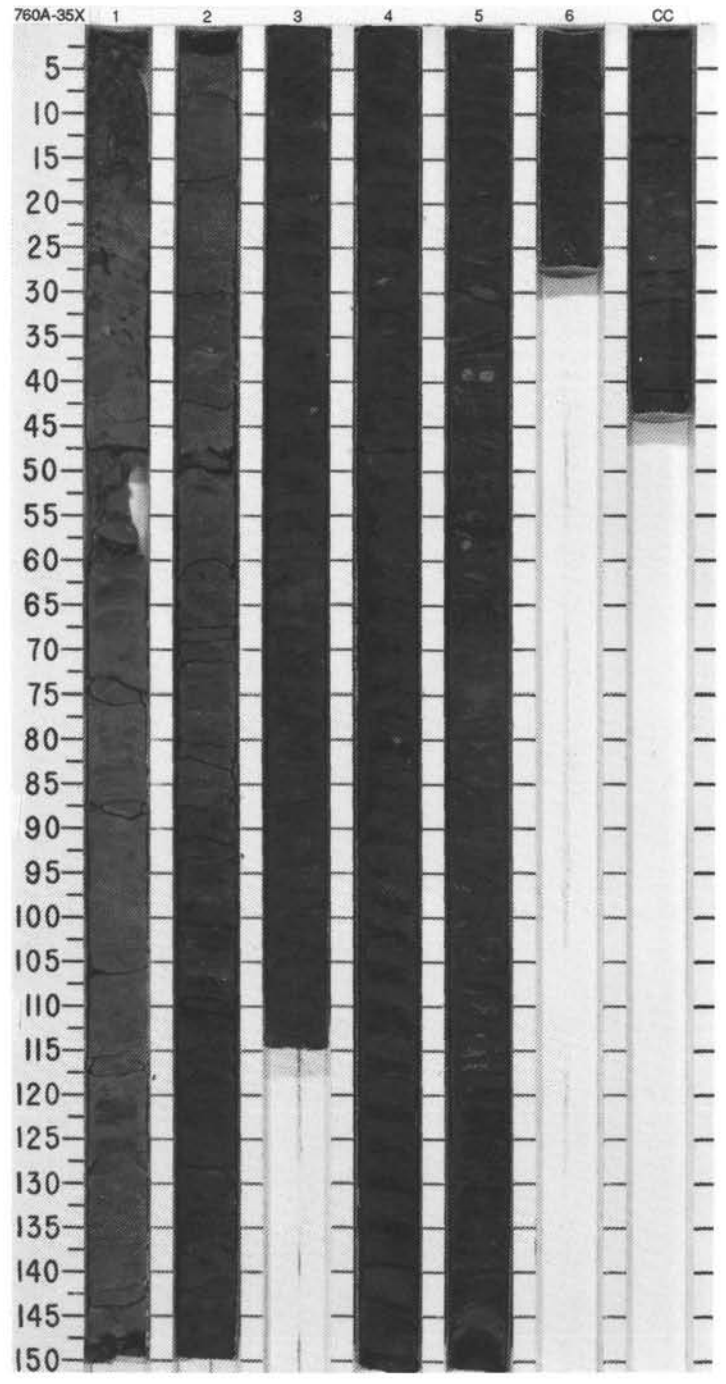


CORE 760A-32C NO RECOVERY



SITE 760 HOLE A CORE 35X CORED INTERVAL 264.4-269.4 mbsf

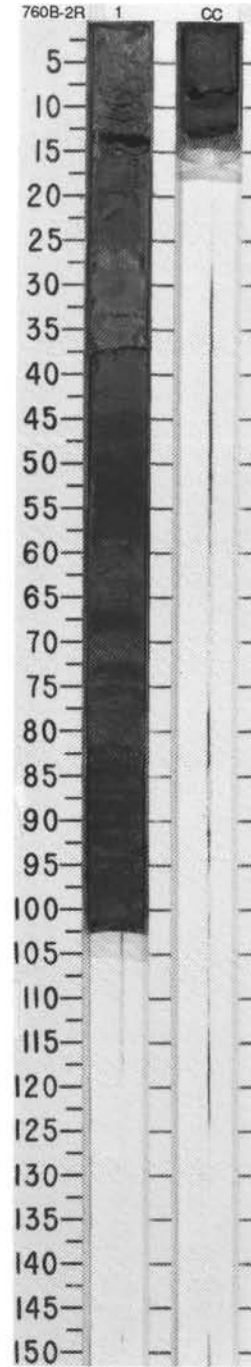
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																				
NORIAN										<p>CLAYEY SILTSTONE WITH SAND AND CLAYSTONE WITH SILT</p> <p>Major lithologies: CLAYEY SILTSTONE with SAND, dark greenish gray (10Y 4/1), massive or finely laminated, locally bioturbated; lithology typical in Section 1. CLAYSTONE with SILT, dark gray (5Y 4/1) to very dark greenish gray (10Y 3/1) in Sections 2, 3 and 5, but black (5Y 2.5/1) in Section 4, Section 6, 0-5 cm and core catcher. The claystones are massive or finely laminated and locally affected by minor bioturbation.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 67</td> <td>2, 86</td> <td>3, 58</td> </tr> <tr> <td>D</td> <td></td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>25</td> <td>-</td> <td>-</td> </tr> <tr> <td>Silt</td> <td>45</td> <td>20</td> <td>15</td> </tr> <tr> <td>Clay</td> <td>30</td> <td>80</td> <td>85</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>30</td> <td>80</td> <td>85</td> </tr> <tr> <td>Feldspar</td> <td>15</td> <td>5</td> <td>5</td> </tr> <tr> <td>Quartz</td> <td>45</td> <td>15</td> <td>10</td> </tr> <tr> <td>Rock fragment</td> <td>10</td> <td>-</td> <td>-</td> </tr> </table>		1, 67	2, 86	3, 58	D		D	D	Sand	25	-	-	Silt	45	20	15	Clay	30	80	85	Clay	30	80	85	Feldspar	15	5	5	Quartz	45	15	10	Rock fragment	10	-	-
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Barten		● 43.4 V-1.780 ● 2.08	● CaCO ₃ =0.08% TOC=0.61%	1	0.5				*																																					
R/P	Upper Triassic species			2	1.0				*																																					
F/M	<i>M. crenulatus</i>	● 40.2 V-1.845 ● 1.97	● TOC=3.28%	3					*																																					
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		● 1.83% TOC=2.67%		5																																										
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CORE 760B-1C NO RECOVERY

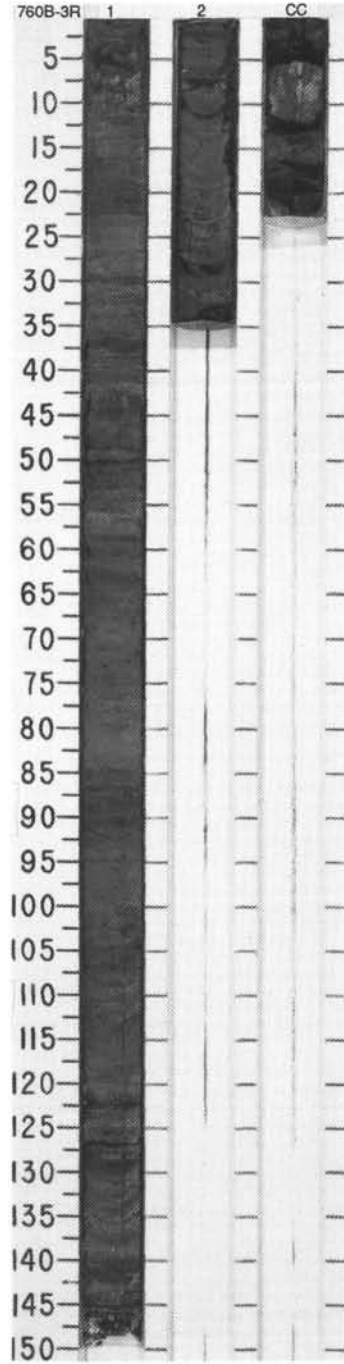
SITE 760 HOLE B CORE 2R CORED INTERVAL 89.9-99.4 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																						
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAATOMS																																																																													
NORIAN	Barren	Barren	Barren		TOC=0.04% V-1.72% TOC=0.88%	1					<p>SILTY CLAYSTONE WITH SAND, SILTY CLAYSTONE, AND CLAYEY SANDY SILTSTONE WITH NANNOFOSSILS</p> <p>Major lithologies: SILTY CLAYSTONE with SAND, light olive gray (5Y 6/2), massive, mottled with dark olive gray (5Y 3/2) banding, suggesting drilling disturbance. SILTY CLAYSTONE, dark olive gray (5Y 3/2), massive, Section 1, 19-26 and 44-100 cm. CLAYEY SANDY SILTSTONE with NANNOFOSSILS, brownish yellow (10YR 6/6), soupy from drilling. Nannofossils may be downhole contamination. Fe oxides (grains and grain coatings) impart yellow-brown color to this interval (Section 1, 0-14 cm).</p> <p>Minor lithology: Clayey sandstone with silt, dark gray (5Y 4/1), three thin beds, Section 1, 62-65, 70.5-72, and 76-81.5 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <thead> <tr> <th></th> <th>1, 12</th> <th>1, 41</th> <th>1, 79</th> <th>1, 90</th> </tr> <tr> <th></th> <th>M</th> <th>D</th> <th>M</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>Sand</td> <td>30</td> <td>10</td> <td>50</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>40</td> <td>30</td> <td>22</td> <td>36</td> </tr> <tr> <td>Clay</td> <td>30</td> <td>60</td> <td>28</td> <td>59</td> </tr> </tbody> </table> <p>TEXTURE:</p> <p>Sand 30 10 50 5 Silt 40 30 22 36 Clay 30 60 28 59</p> <p>COMPOSITION:</p> <table border="1"> <thead> <tr> <th></th> <th>1, 12</th> <th>1, 41</th> <th>1, 79</th> <th>1, 90</th> </tr> </thead> <tbody> <tr> <td>Clay</td> <td>35</td> <td>69</td> <td>58</td> <td>57</td> </tr> <tr> <td>Fe oxide</td> <td>10</td> <td>2</td> <td>—</td> <td>—</td> </tr> <tr> <td>Feldspar</td> <td>8</td> <td>13</td> <td>9</td> <td>15</td> </tr> <tr> <td>Mica</td> <td>12</td> <td>9</td> <td>10</td> <td>7</td> </tr> <tr> <td>Nannofossils</td> <td>13</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Opauques</td> <td>—</td> <td>—</td> <td>6</td> <td>7</td> </tr> <tr> <td>Quartz</td> <td>18</td> <td>7</td> <td>17</td> <td>14</td> </tr> <tr> <td>Rock fragment</td> <td>4</td> <td>—</td> <td>—</td> <td>—</td> </tr> </tbody> </table>		1, 12	1, 41	1, 79	1, 90		M	D	M	D	Sand	30	10	50	5	Silt	40	30	22	36	Clay	30	60	28	59		1, 12	1, 41	1, 79	1, 90	Clay	35	69	58	57	Fe oxide	10	2	—	—	Feldspar	8	13	9	15	Mica	12	9	10	7	Nannofossils	13	—	—	—	Opauques	—	—	6	7	Quartz	18	7	17	14	Rock fragment	4	—	—	—
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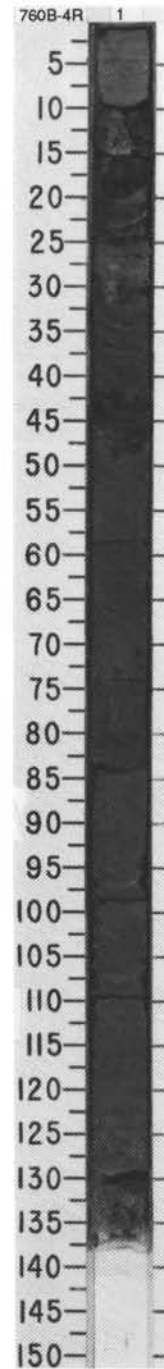
SITE 760 HOLE B CORE 3R CORED INTERVAL 99.4-108.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																				
NORIAN											<p>CLAYEY SILTSTONE WITH SAND, SANDY CLAYEY SILTSTONE, AND SILTY CLAYEY SANDSTONE</p> <p>Major lithologies: SILTY CLAYSTONE with SAND, very dark gray (5Y 3/1) to black (N2), containing rock fragments, quartz, pyrite and plant debris. Varies from massive to laminated. SANDY CLAYEY SILTSTONE, olive gray (5Y 4/2), contains abundant rock fragment quartz and Fe oxide grains, common feldspar and biotite, traces of glauconite and siderite. Varies from poorly bedded to laminated. CLAYEY SILTSTONE with SAND, dark greenish gray (10Y 5/2), contains abundant quartz, rock fragments and Fe oxide, common feldspar and biotite, traces of glauconite and shell debris; thin-bedded.</p> <p>Minor lithology: Silty sandstone, gray (5Y 6/1), CC, 5-12 cm, sideritized and hard, contains abundant quartz, rock fragments, glauconite and carbonaceous material. One 7 cm thick bed, with 7 mm wide vertical burrow filled with sideritic clay.</p> <p>SMEAR SLIDE AND THIN SECTION SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 13</td> <td>1, 72</td> <td>1, 113</td> <td>2, 21</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>45</td> <td>15</td> <td>10</td> <td>10</td> </tr> <tr> <td>Silt</td> <td>25</td> <td>45</td> <td>35</td> <td>32</td> </tr> <tr> <td>Clay</td> <td>30</td> <td>40</td> <td>55</td> <td>58</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Bioclast</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Carbonate grains</td> <td>—</td> <td>—</td> <td>—</td> <td>5</td> </tr> <tr> <td>Clay</td> <td>30</td> <td>40</td> <td>55</td> <td>58</td> </tr> <tr> <td>Dolomite</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Fe oxide</td> <td>10</td> <td>7</td> <td>—</td> <td>—</td> </tr> <tr> <td>Feldspar</td> <td>5</td> <td>3</td> <td>Tr</td> <td>3</td> </tr> <tr> <td>Fish</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Glauconite</td> <td>1</td> <td>1</td> <td>2</td> <td>5</td> </tr> <tr> <td>Mica</td> <td>3</td> <td>3</td> <td>1</td> <td>2</td> </tr> <tr> <td>Plant</td> <td>—</td> <td>—</td> <td>7</td> <td>—</td> </tr> <tr> <td>Pyrite</td> <td>—</td> <td>—</td> <td>3</td> <td>2</td> </tr> <tr> <td>Quartz</td> <td>25</td> <td>15</td> <td>5</td> <td>5</td> </tr> <tr> <td>Rock fragment</td> <td>25</td> <td>30</td> <td>27</td> <td>20</td> </tr> <tr> <td>Rutile</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Zircon</td> <td>Tr</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> </table>		1, 13	1, 72	1, 113	2, 21	D	D	D	D	D	Sand	45	15	10	10	Silt	25	45	35	32	Clay	30	40	55	58	Bioclast	Tr	—	—	—	Carbonate grains	—	—	—	5	Clay	30	40	55	58	Dolomite	—	Tr	—	—	Fe oxide	10	7	—	—	Feldspar	5	3	Tr	3	Fish	—	Tr	—	—	Glauconite	1	1	2	5	Mica	3	3	1	2	Plant	—	—	7	—	Pyrite	—	—	3	2	Quartz	25	15	5	5	Rock fragment	25	30	27	20	Rutile	Tr	—	—	—	Zircon	Tr	Tr	—	—
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Barren	Barren	R/P	● 340.3 V-1.697 ● 341.94 ● TOC=2.57% ● TOC=1.99																																																																																																												

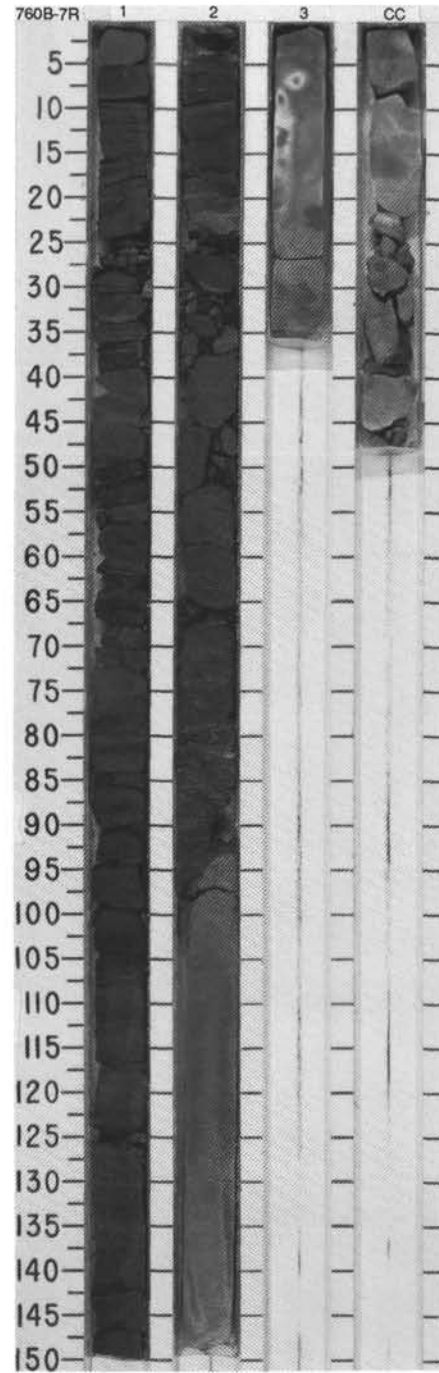


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																						
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NORIAN								1	0.5 1.0					<p>CLAYSTONE AND SILTY CLAYSTONE</p> <p>Major lithology: CLAYSTONE, black (5Y 2.5/1, 2.5Y 2/0) and dark gray (N4, 5Y 3/1), with up to 10% quartz silt. Sand blebs in claystone. A few layers of SILTY CLAYSTONE (possibly some clayey silt), dark grayish brown (2.5Y 4/2) interbedded Section 1, 16-20, 41-48, 70-76, 82-84 and 127-140 cm.</p> <p>Minor lithologies: a. Quartz feldspar silty sandstone with 5% glauconite, "patch", Section 1, 27-30 cm. b. Mixed carbonate quartz sandstone carbonate cement, cross-laminated, Section 1, 0-10 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <thead> <tr> <th></th> <th>1, 30</th> <th>1, 73</th> <th>1, 90</th> <th>1, 127</th> </tr> </thead> <tbody> <tr> <td>M</td> <td></td> <td>D</td> <td>D</td> <td>M</td> </tr> </tbody> </table> <p>TEXTURE:</p> <table border="1"> <thead> <tr> <th></th> <th>1, 30</th> <th>1, 73</th> <th>1, 90</th> <th>1, 127</th> </tr> </thead> <tbody> <tr> <td>Sand</td> <td>60</td> <td>—</td> <td>—</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>35</td> <td>35</td> <td>3</td> <td>12</td> </tr> <tr> <td>Clay</td> <td>5</td> <td>65</td> <td>97</td> <td>83</td> </tr> </tbody> </table> <p>COMPOSITION:</p> <table border="1"> <thead> <tr> <th></th> <th>1, 30</th> <th>1, 73</th> <th>1, 90</th> <th>1, 127</th> </tr> </thead> <tbody> <tr> <td>Accessory minerals</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>5</td> <td>65</td> <td>97</td> <td>83</td> </tr> <tr> <td>Feldspar</td> <td>7</td> <td>15</td> <td>—</td> <td>7</td> </tr> <tr> <td>Glauconite</td> <td>5</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>1</td> <td>Tr</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Opales</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>80</td> <td>20</td> <td>3</td> <td>10</td> </tr> </tbody> </table>		1, 30	1, 73	1, 90	1, 127	M		D	D	M		1, 30	1, 73	1, 90	1, 127	Sand	60	—	—	5	Silt	35	35	3	12	Clay	5	65	97	83		1, 30	1, 73	1, 90	1, 127	Accessory minerals	Tr	—	—	—	Clay	5	65	97	83	Feldspar	7	15	—	7	Glauconite	5	—	—	—	Mica	1	Tr	—	Tr	Opales	—	—	Tr	—	Quartz	80	20	3	10
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CORE 760B-5C NO RECOVERY

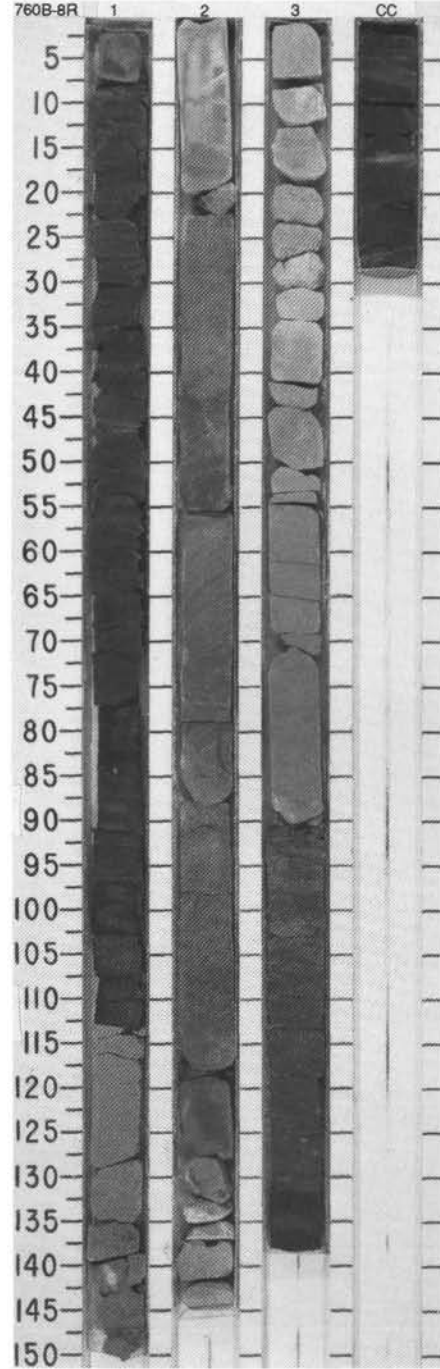


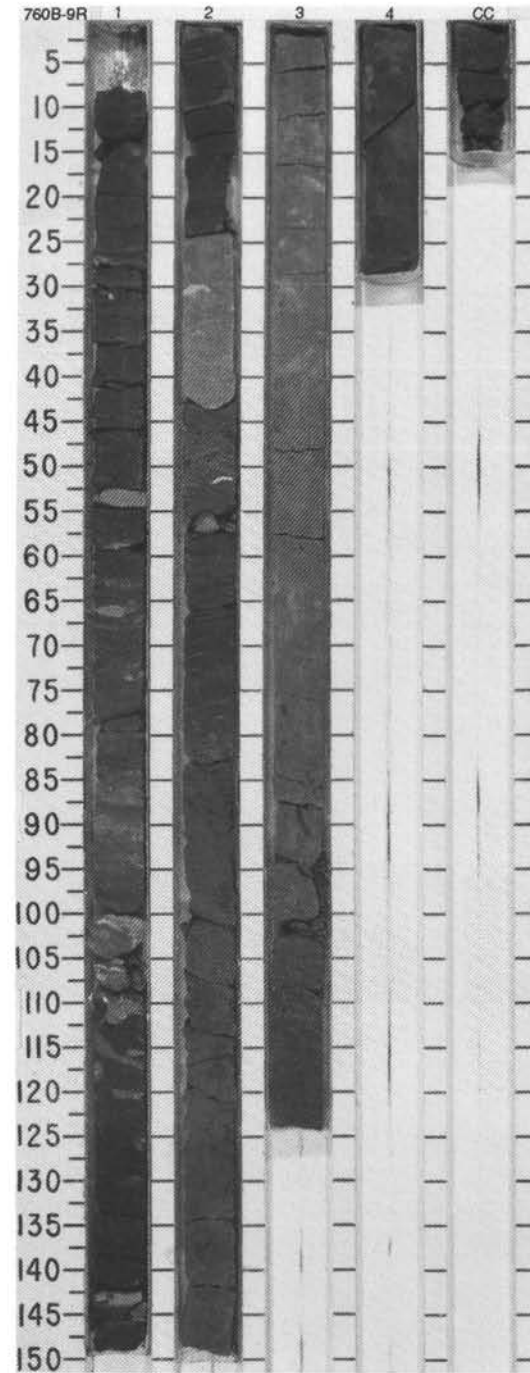
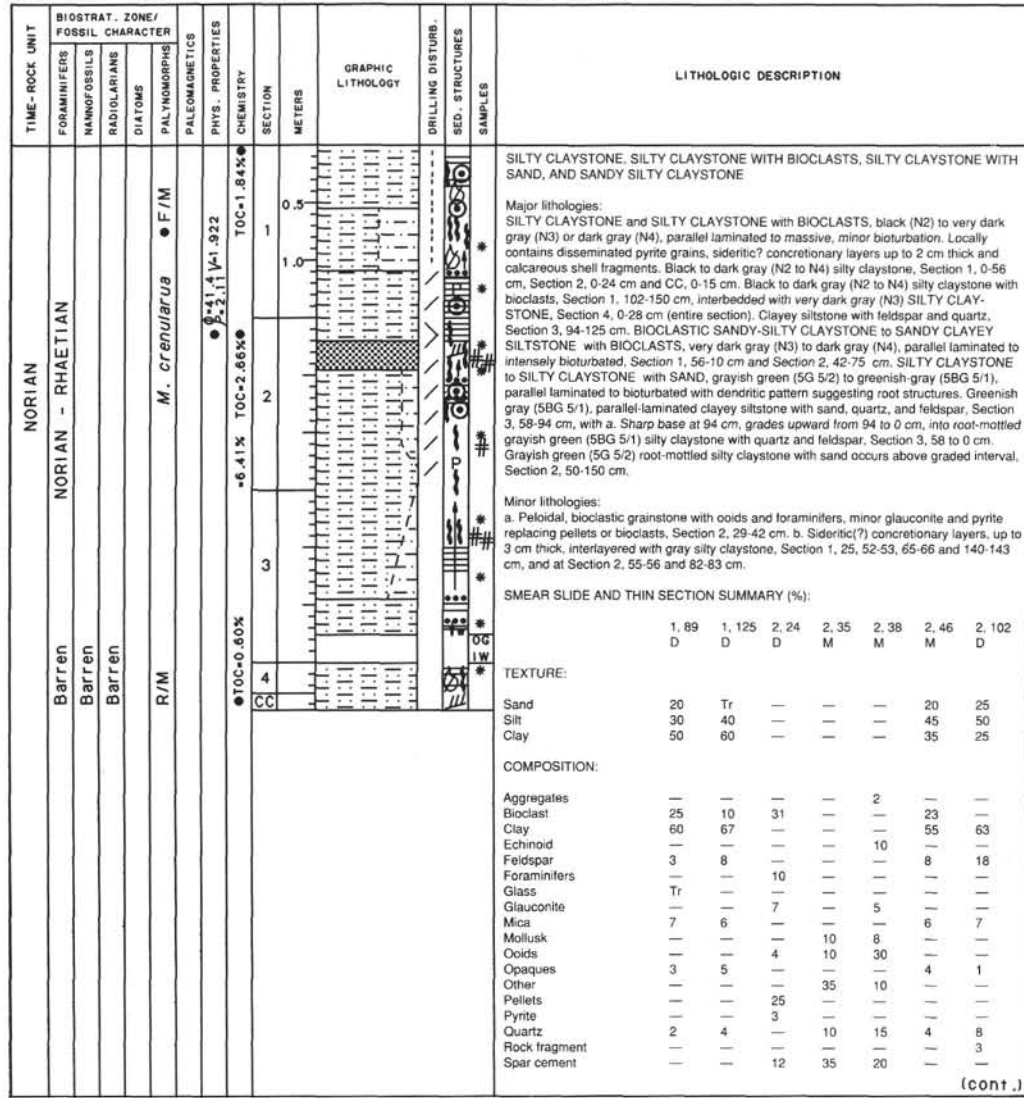
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALYMNORPHS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
NORIAN	UPPER NORIAN - RHAETIAN	C/M	Barren	Barren		<i>M. crenulatus</i>	(CaCO ₃ +1.00% TOC+2.89%)	V-1.86 V-1.96 V-2.1	TOC=2.48%	1	0.5 1.0		X			CLAYEY SILTSTONE, SILTY CLAYSTONE, CLAYEY SILTSTONE WITH SAND, AND WACKESTONE
										2			X			Major lithologies: CLAYEY SILTSTONE, CLAYEY SILTSTONE with SAND, dark greenish gray (10Y 4/1), parallel laminated and interbedded with SILTY CLAYSTONE, black (7.5YR 2/0), with sharp flat or erosional bases in Section 1, and Section 2, 0-95 cm. Moderate burrowing. WACK-ESTONE (locally packstone), very dark gray (2.5Y 3/0), dominant in Section 2. 128-150 cm. Section 3, 3-37 cm and CC, 0-28 cm and 41-48 cm, generally massive and includes some peloidal and molluscan shell fragments.
										3			X			Minor lithologies: a. Carbonaceous clayey siltstone or siltstone, very dark gray (2.5Y 3/0) overlies carbonate wackestone in Section 2, 95-128 cm and CC, 0-5 cm. Includes pyrite, glauconite and minor garnet grains. b. Pyrite concretions (1-10 mm in diameter), Section 1, 135-137 cm and Section 2, 25-27 cm. c. Sideritic clayey siltstone concretion (2 cm long x 7 mm thick), Section 2, 81-83 cm. d. Molluscan shell fragments included in silty claystones. e. Thin coal "seams" commonly associated with parallel lamination in clayey siltstones.
										CC			X			SMEAR SLIDE AND THIN SECTION SUMMARY (%):
																1, 14 D 1, 20 D CC, 40 M
																TEXTURE:
																Sand 80 Silt 20 Clay —
																COMPOSITION:
																Bioclast — Clay — Echinoids — Feldspar 15 Foraminifers — Peloids — Quartz 60 Rock fragment 20 Opaque minerals 5



SITE 760 HOLE B CORE 8R CORED INTERVAL 302.0-311.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																																																																																																																																																																
NORIAN	NORIAN - RHAETIAN	F/M	0.5 1.0	[Lithology symbols]	[Disturbance symbols]	[Sample symbols]	<p>SILTY CLAYSTONE, SILTY CLAYSTONE WITH SAND, CARBONATE MUDSTONE, GRAINSTONE, AND WACKESTONE</p> <p>Major lithologies: SILTY CLAYSTONE, black (N2). Section 1, 5-113 cm, laminated black silty claystone with clayey silt laminae. Pyritized burrows and disseminated pyrite grains, burrowing is minor. Section 3, 90-140 cm, shelly SILTY CLAYSTONE with SAND, well preserved, very thin-shelled fossils. CARBONATE MUDSTONE, gray (5Y 6/1), GRAINSTONE, dark gray (5Y 4/1) to gray (5Y 7/2), WACKESTONE, gray (5Y 6/1), Section 1, 113 cm - Section 3, 90 cm. Section 1, 113-142 cm carbonate mudstone with black intraclasts or peloids, some pyritized. Section 2, 0-20 cm oolitic bioclastic grainstones. Carbonate mudstones in the part of the core are of probable algal origin.</p> <p>Minor lithologies: a. Carbonate cemented sandstone, dark gray (2.5Y 4/0), Section 1, 0-5 cm, with bioclasts and fine lamination. b. Claystone, claystone with silt, black (N2), laminated with silty claystone, Section 3, 13 cm through CC, some pyrite grains.</p> <p>Interpretation: Carbonate sediments probably represent coarsening up sequence and reflect higher energy conditions in shallow water carbonate environments.</p> <p>SMEAR SLIDE AND THIN SECTION SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 65</td> <td>1, 77</td> <td>1, 135</td> <td>2, 6</td> <td>2, 18</td> <td>2, 19</td> <td>2, 44</td> </tr> <tr> <td></td> <td>M</td> <td>D</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>5</td> <td>2</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Silt</td> <td>45</td> <td>25</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>50</td> <td>73</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Algae</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>15</td> <td>15</td> <td>—</td> </tr> <tr> <td>Bioclast</td> <td>—</td> <td>—</td> <td>30</td> <td>12</td> <td>—</td> <td>10</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>52</td> <td>88</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Echinoid</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>5</td> <td>4</td> <td>5</td> </tr> <tr> <td>Feldspar</td> <td>18</td> <td>8</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Fish</td> <td>Tr</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Foraminifers</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>15</td> <td>10</td> <td>10</td> </tr> <tr> <td>Gastropod</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>5</td> </tr> <tr> <td>Intraclasts</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>45</td> <td>60</td> </tr> <tr> <td>Matrix</td> <td>10</td> <td>10</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>—</td> <td>—</td> <td>40</td> <td>—</td> <td>50</td> <td>7</td> <td>—</td> </tr> <tr> <td>Micrite</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>10</td> <td>—</td> <td>—</td> </tr> <tr> <td>Mollusk</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>30</td> <td>—</td> <td>—</td> </tr> <tr> <td>Ooids</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Opalines</td> <td>—</td> <td>5</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Palagonite</td> <td>3</td> <td>5</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Pellets</td> <td>—</td> <td>—</td> <td>—</td> <td>37</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Peloids</td> <td>—</td> <td>—</td> <td>30</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Plant</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Pore space</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>9</td> <td>—</td> </tr> <tr> <td>Pyrite</td> <td>—</td> <td>—</td> <td>—</td> <td>6</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>15</td> <td>4</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Rock fragment</td> <td>2</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Spar cement</td> <td>—</td> <td>—</td> <td>—</td> <td>15</td> <td>5</td> <td>—</td> <td>—</td> </tr> <tr> <td>Unknown</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>15</td> </tr> </table>		1, 65	1, 77	1, 135	2, 6	2, 18	2, 19	2, 44		M	D	D	M	D	D	D	Sand	5	2	—	—	—	—	—	Silt	45	25	—	—	—	—	—	Clay	50	73	—	—	—	—	—	Algae	—	—	—	—	15	15	—	Bioclast	—	—	30	12	—	10	—	Clay	52	88	—	—	Tr	—	—	Echinoid	—	—	—	—	5	4	5	Feldspar	18	8	—	—	—	—	—	Fish	Tr	Tr	—	—	—	—	—	Foraminifers	—	—	—	—	15	10	10	Gastropod	—	—	—	—	—	—	5	Intraclasts	—	—	—	—	—	45	60	Matrix	10	10	—	—	—	—	—	Mica	—	—	40	—	50	7	—	Micrite	—	—	—	—	10	—	—	Mollusk	—	—	—	—	30	—	—	Ooids	—	—	—	—	—	—	—	Opalines	—	5	—	—	—	—	—	Palagonite	3	5	—	—	—	—	—	Pellets	—	—	—	37	—	—	—	Peloids	—	—	30	—	—	—	—	Plant	—	Tr	—	—	—	—	—	Pore space	—	—	—	—	—	9	—	Pyrite	—	—	—	6	—	—	—	Quartz	15	4	—	—	—	—	—	Rock fragment	2	—	—	—	—	—	—	Spar cement	—	—	—	15	5	—	—	Unknown	—	—	—	—	—	—	15
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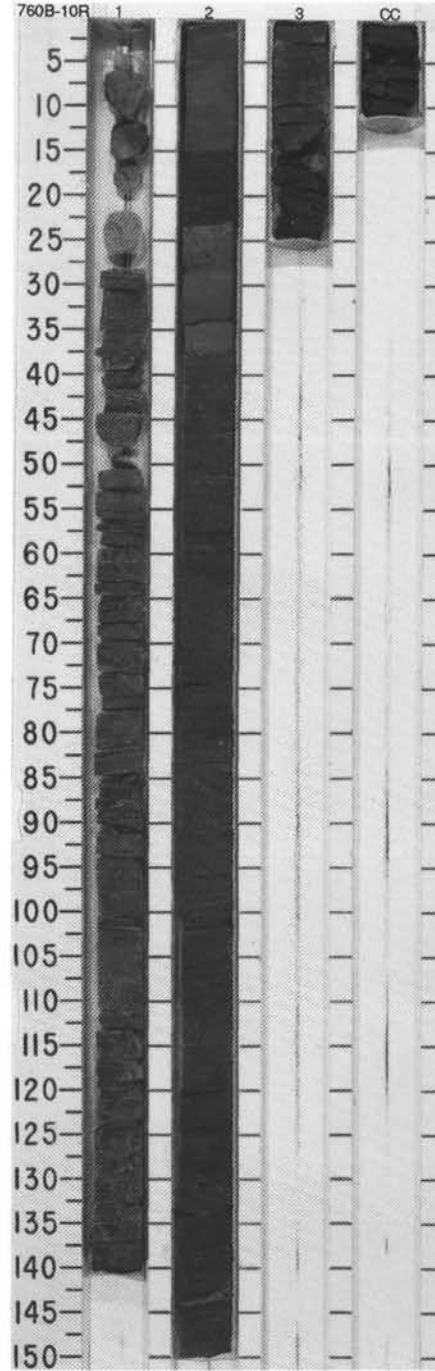
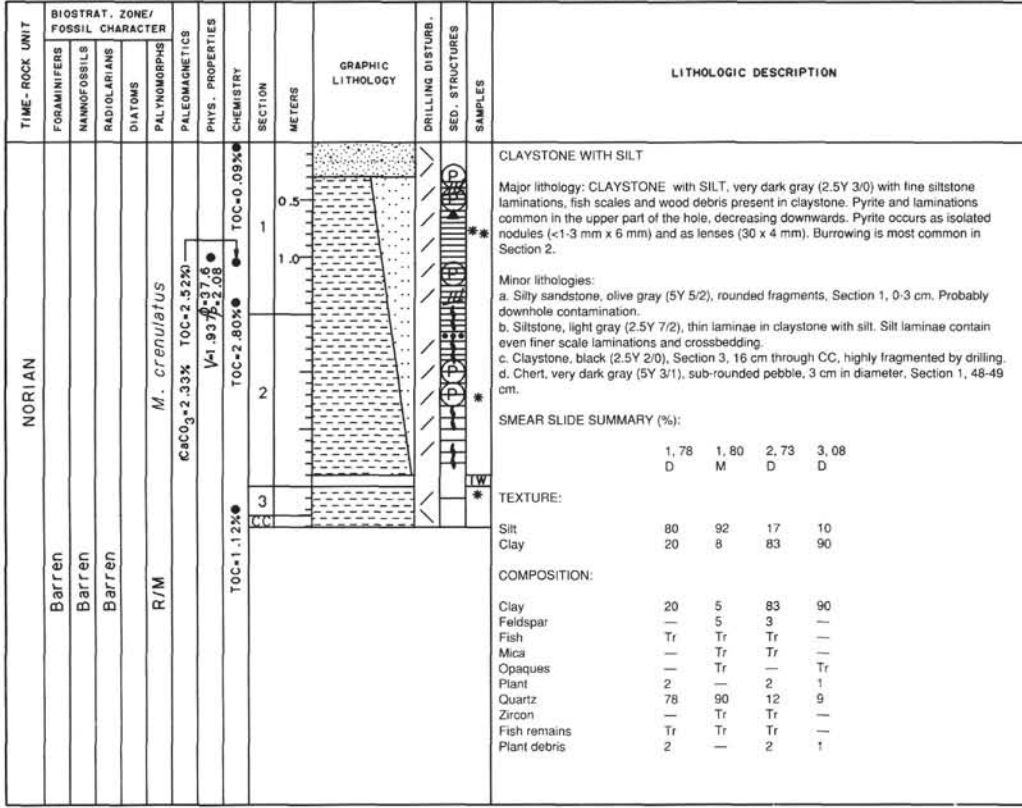




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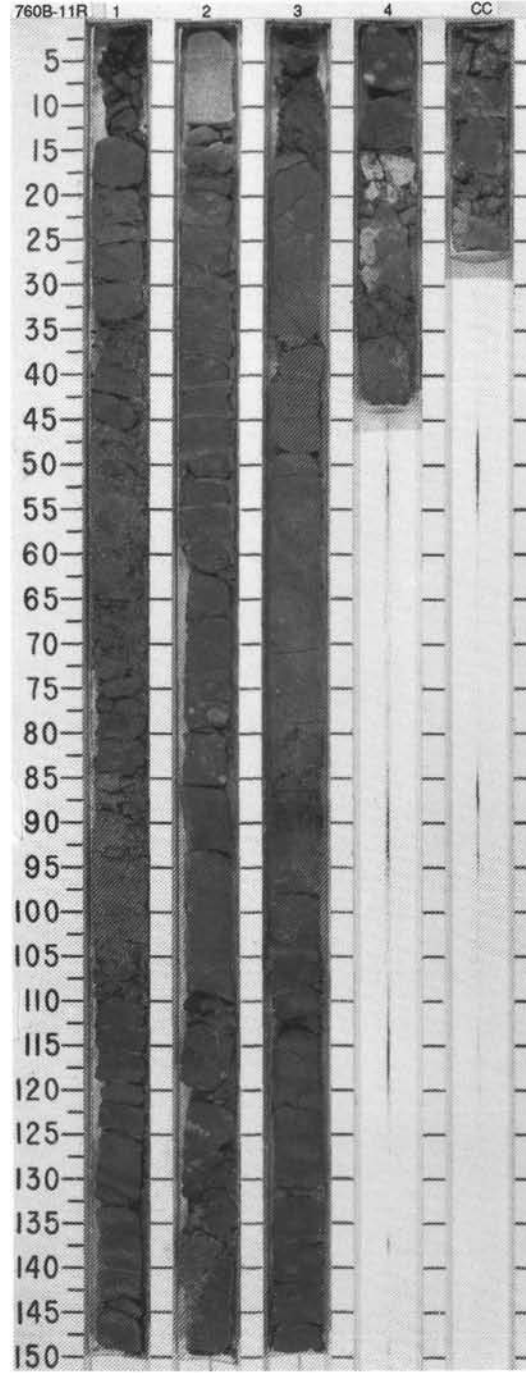
SITE 760 HOLE B CORE 9R CORED INTERVAL 311.5-321.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADICLIARIANS										
								0.5					(cont.)
								1.0					SMEAR SLIDE SUMMARY (%):
													2, 112 3, 26 3, 40 3, 43 3, 76 3, 116 4, 8
													M D M M D D D
													TEXTURE:
													Sand — 12 — — 22 Tr 8
													Silt — 25 — — 45 55 42
													Clay — 63 — — 33 45 50
													COMPOSITION:
													Spar cement — — 35 60 — — —
													Peloids 60 — 30 20 20 — —
													Bioclast — — — — 4 Tr —
													Clay — 53 — — 63 51 44
													Dolomite 2 — — — — —
													Feldspar — 22 — — — —
													Mica — 10 — — 7 6 10
													Micrite 15 — 20 10 — —
													Opalines 23 — 15 10 — 3 9
													Peloids 60 — 30 20 — —
													Quartz — 15 — — 12 24 17

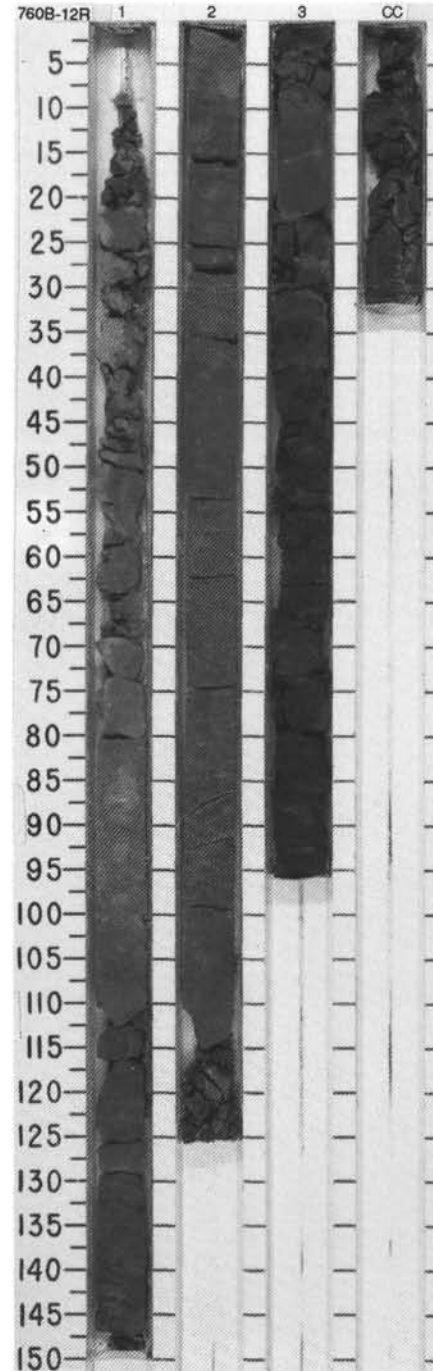


SITE 760 HOLE B CORE 11R CORED INTERVAL 330.5-340.0 mbsf

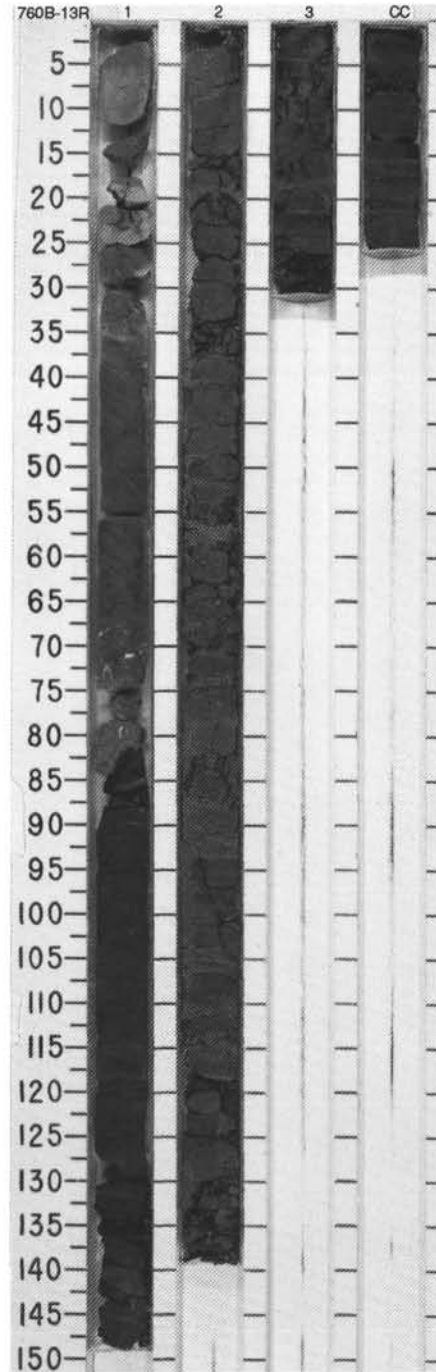
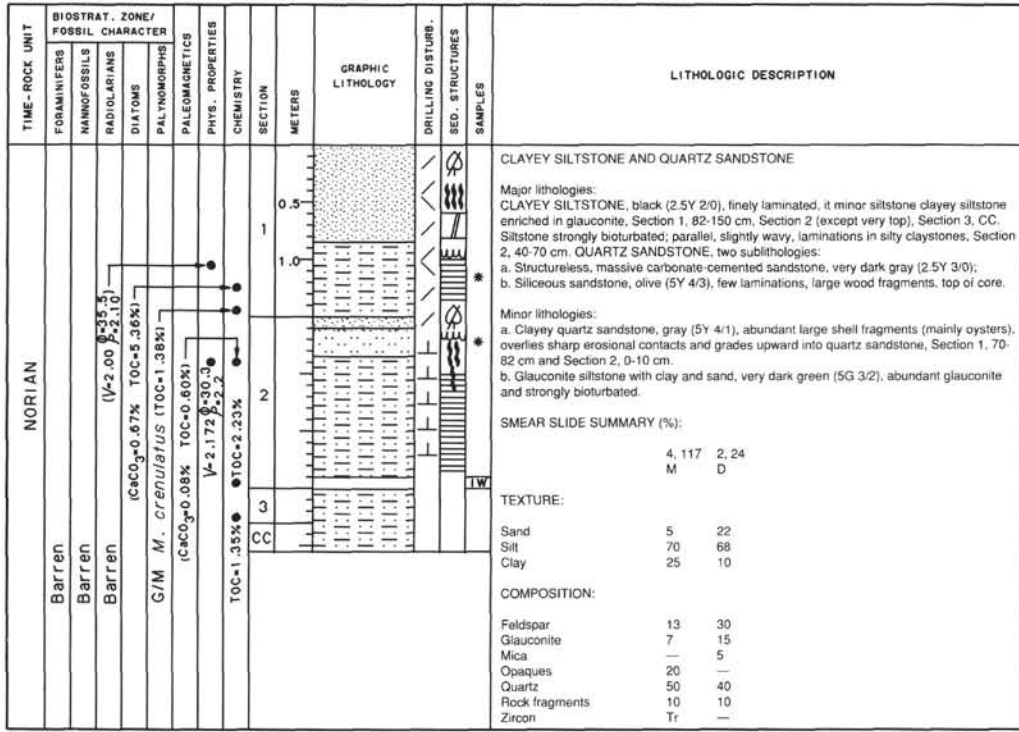
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																						
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																																															
NORIAN	Barren				ITOC=0.66% V=2.046% V=1.845% V=1.97%	TOC=0.05% C=0.03% C=0.03% C=0.03%	TOC=0.05% C=0.03% C=0.03% C=0.03%	1	0.5 1.0				CLAYSTONE AND CLAYSTONE WITH SILT Major lithology: CLAYSTONE and CLAYSTONE with SILT, dark greenish gray (5G 4/1, 5BG 4/1), mostly massive and bioturbated. Minor lithologies: a. Clayey sandstone, interbedded with claystone and claystone with silt, abundant wood fragments, graded and parallel laminated. b. Oncoids or algae nodules scattered in Section 2, 65-85 cm. c. Microconglomerate layer, Section 3, 80-90 cm. d. Ooids in Section 2, 20-30 cm and Section 4, 10-30 cm. e. Rootlet horizon, Section 4, 8-17 cm. SMEAR SLIDE SUMMARY (%): <table border="1" style="margin-left: 20px;"> <tr> <td></td> <td>1, 114</td> <td>2, 107</td> <td>3, 30</td> <td>3, 140</td> </tr> <tr> <td></td> <td>D</td> <td>M</td> <td>D</td> <td>D</td> </tr> </table> TEXTURE: <table border="1" style="margin-left: 20px;"> <tr> <td>Silt</td> <td>15</td> <td>20</td> <td>5</td> <td>7</td> </tr> <tr> <td>Clay</td> <td>85</td> <td>80</td> <td>95</td> <td>93</td> </tr> </table> COMPOSITION: <table border="1" style="margin-left: 20px;"> <tr> <td>Accessory minerals</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Amphibole</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Unspecified carbonate</td> <td>10</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>85</td> <td>80</td> <td>95</td> <td>93</td> </tr> <tr> <td>Feldspar</td> <td>—</td> <td>5</td> <td>—</td> <td>—</td> </tr> <tr> <td>Fish remains</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>2</td> </tr> <tr> <td>Opalines</td> <td>—</td> <td>—</td> <td>Tr</td> <td>1</td> </tr> <tr> <td>Quartz</td> <td>5</td> <td>15</td> <td>5</td> <td>5</td> </tr> <tr> <td>Zircon</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> </table>		1, 114	2, 107	3, 30	3, 140		D	M	D	D	Silt	15	20	5	7	Clay	85	80	95	93	Accessory minerals	—	Tr	—	—	Amphibole	—	Tr	—	—	Unspecified carbonate	10	—	—	—	Clay	85	80	95	93	Feldspar	—	5	—	—	Fish remains	—	Tr	—	—	Mica	Tr	Tr	Tr	2	Opalines	—	—	Tr	1	Quartz	5	15	5	5	Zircon	—	Tr	—	—
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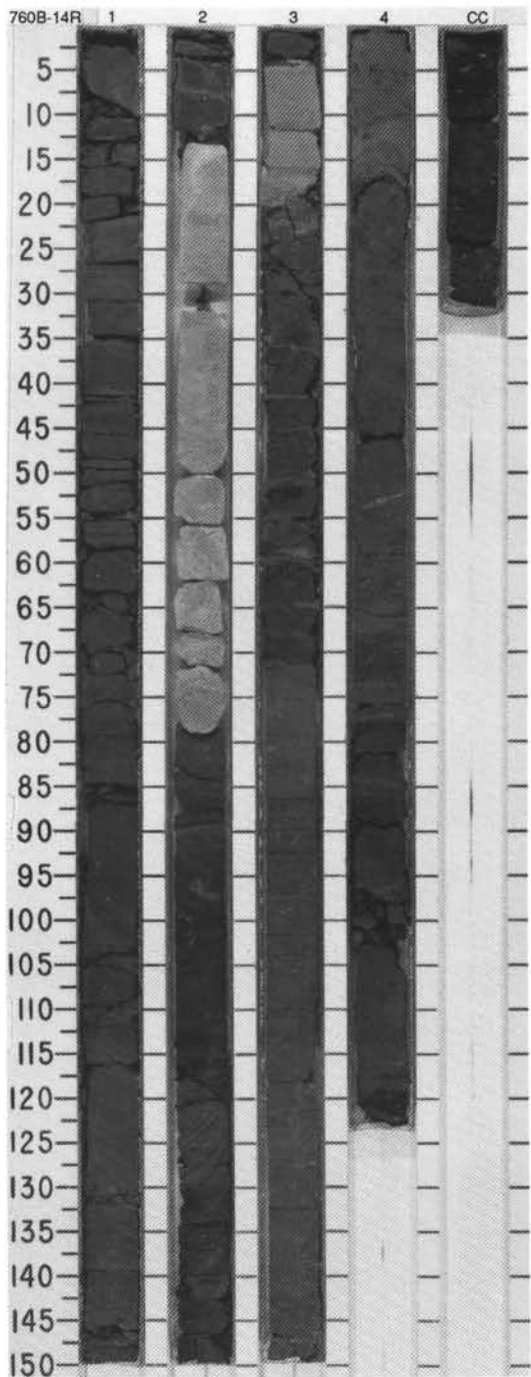
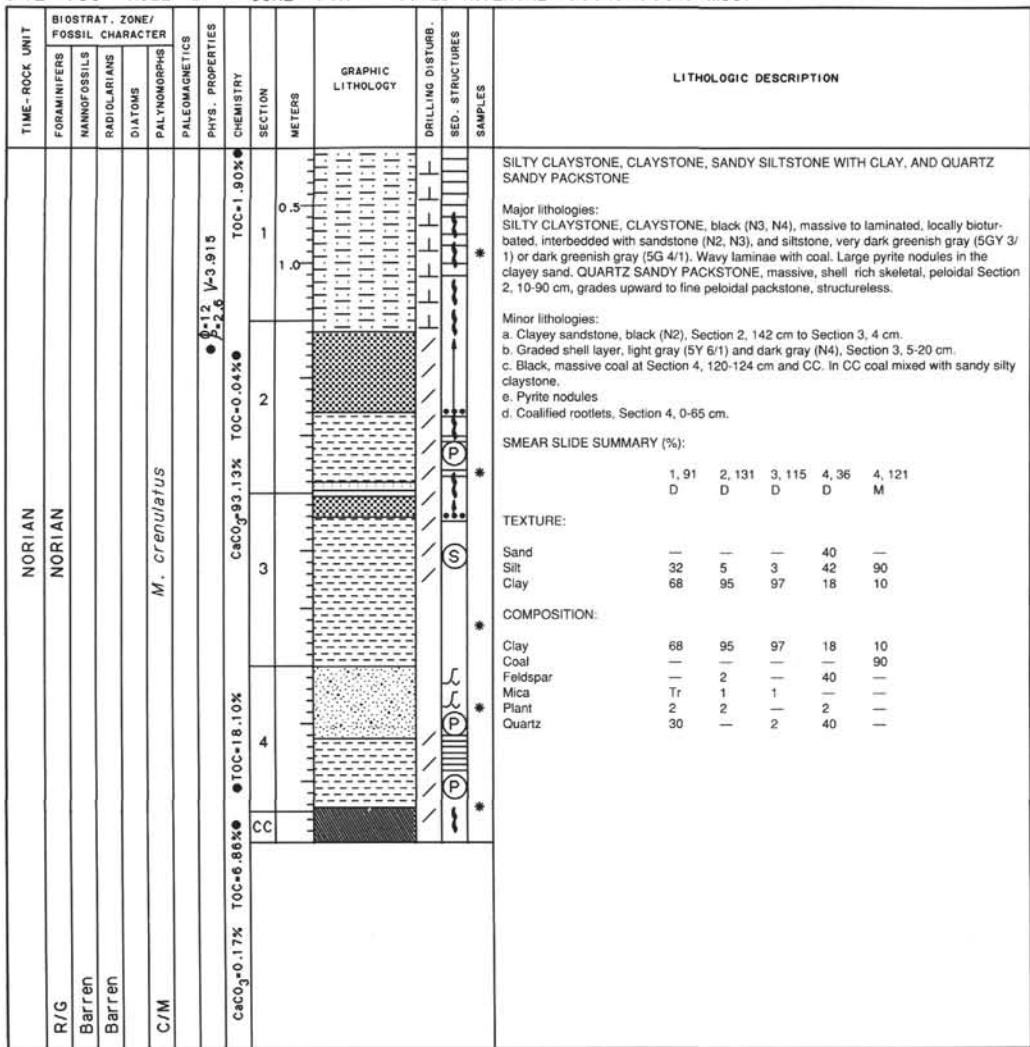


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																										
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NORIAN	Barren	Barren	Barren											<p>SILTSTONE AND SILTY CLAYSTONE</p> <p>Major lithologies: SILTSTONE, gray (5G 5/1), mottled and grading from claystone, top of Section 1 to sandstone, Section 1, 110 cm; in Section 2, 53-125 cm (O.G. sample), greenish gray (5GY 5/1), dark greenish gray (5GY 4/1) laminated (possibly algal). Sand filled burrows are common. Section 2, 94-114 cm, contains either a large burrow, about 2 cm on cut surface, or clastic dyke (because of small siltstone with clay fragments inside). SILTY CLAYSTONE, very dark greenish gray (10Y 3/1) and black (5Y 2.5/2). Section 3, minor laminations, bioturbation, and grain size changes.</p> <p>Minor lithologies: a. Silty sandstone, dark greenish gray (5G 4/1) with minor amounts of dark gray (N4). Section 1, 110 to Section 2, 26 cm. Layering is predominantly color banding. Section 1 but distinct size layers, about 5-10 mm thick, Section 2. b. Claystone with silt, very dark gray (5Y 3/1) in core catcher. Interval is highly fractured with few sedimentary structures.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 88</td> <td>1, 132</td> <td>2, 89</td> <td>3, 63</td> </tr> <tr> <td>D</td> <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>60</td> <td>2</td> <td>—</td> </tr> <tr> <td>Silt</td> <td>80</td> <td>40</td> <td>78</td> <td>40</td> </tr> <tr> <td>Clay</td> <td>10</td> <td>—</td> <td>20</td> <td>60</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>10</td> <td>—</td> <td>20</td> <td>65</td> </tr> <tr> <td>Fe oxide</td> <td>15</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Feldspar</td> <td>5</td> <td>5</td> <td>10</td> <td>2</td> </tr> <tr> <td>Glauconite</td> <td>—</td> <td>5</td> <td>2</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>2</td> <td>7</td> <td>5</td> <td>3</td> </tr> <tr> <td>Opauques</td> <td>—</td> <td>20</td> <td>—</td> <td>—</td> </tr> <tr> <td>Plant</td> <td>2</td> <td>—</td> <td>—</td> <td>8</td> </tr> <tr> <td>Pyrite</td> <td>2</td> <td>—</td> <td>2</td> <td>17</td> </tr> <tr> <td>Quartz</td> <td>30</td> <td>20</td> <td>37</td> <td>8</td> </tr> <tr> <td>Rock fragment</td> <td>34</td> <td>43</td> <td>20</td> <td>2</td> </tr> <tr> <td>Siderite</td> <td>—</td> <td>—</td> <td>1</td> <td>3</td> </tr> <tr> <td>Zircon</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Accessory minerals</td> <td>—</td> <td>—</td> <td>3</td> <td>—</td> </tr> </table>		1, 88	1, 132	2, 89	3, 63	D		M	D	D	Sand	10	60	2	—	Silt	80	40	78	40	Clay	10	—	20	60	Clay	10	—	20	65	Fe oxide	15	—	—	—	Feldspar	5	5	10	2	Glauconite	—	5	2	—	Mica	2	7	5	3	Opauques	—	20	—	—	Plant	2	—	—	8	Pyrite	2	—	2	17	Quartz	30	20	37	8	Rock fragment	34	43	20	2	Siderite	—	—	1	3	Zircon	—	—	Tr	—	Accessory minerals	—	—	3	—
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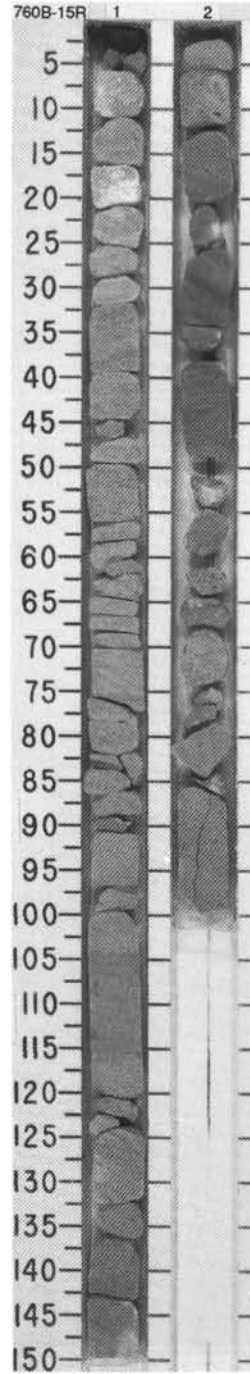
SITE 760 HOLE B CORE 13R CORED INTERVAL 349.5-359.0 mbsf

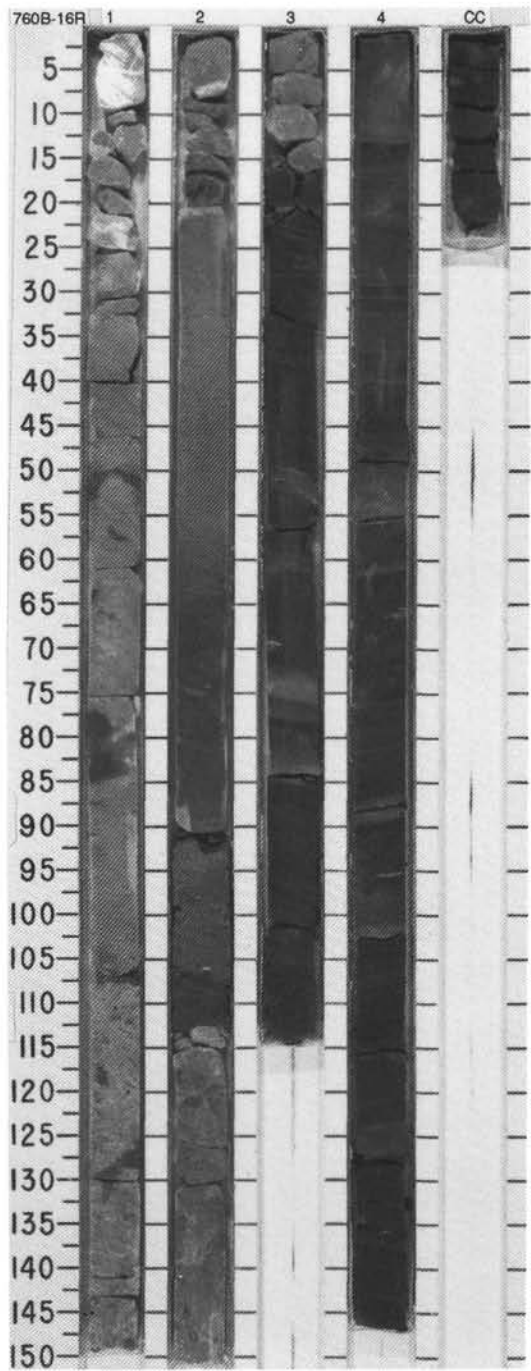
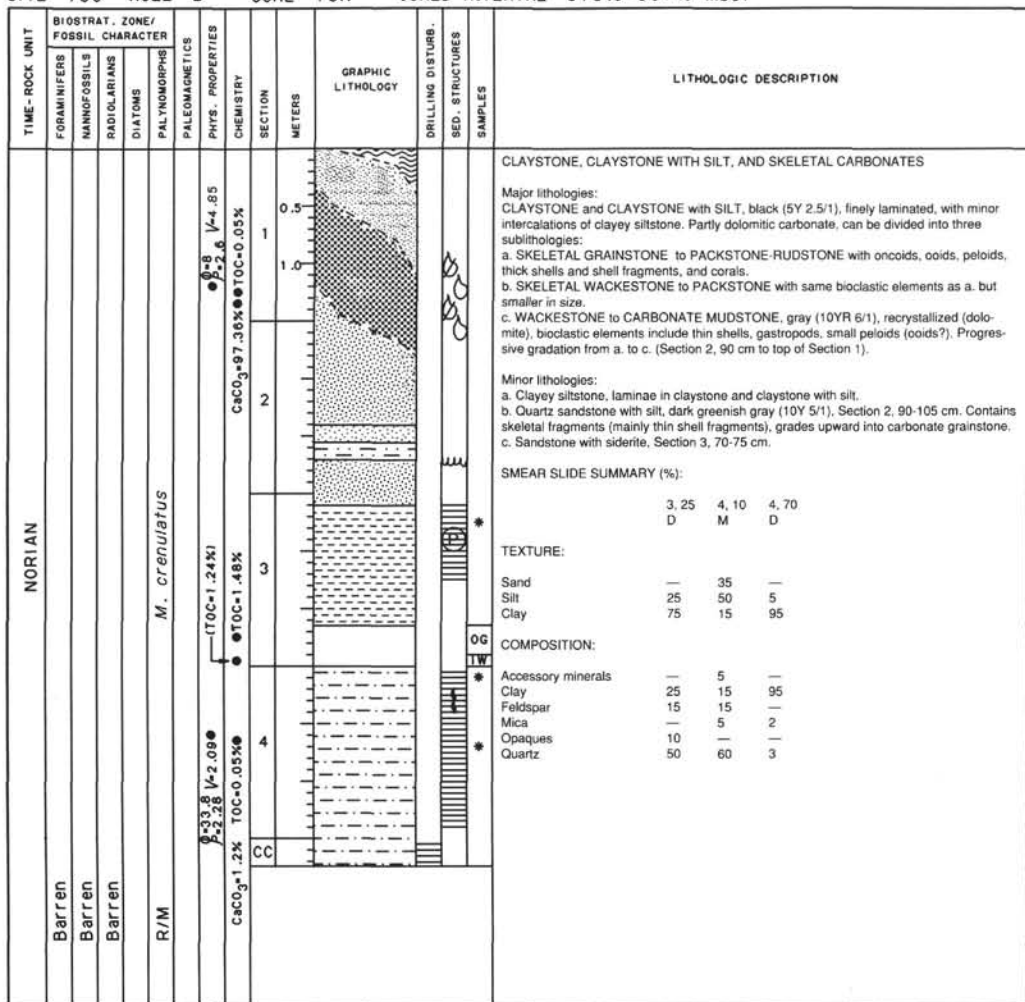




SITE 760 HOLE B CORE 15R CORED INTERVAL 268.5-378.0 mbsf

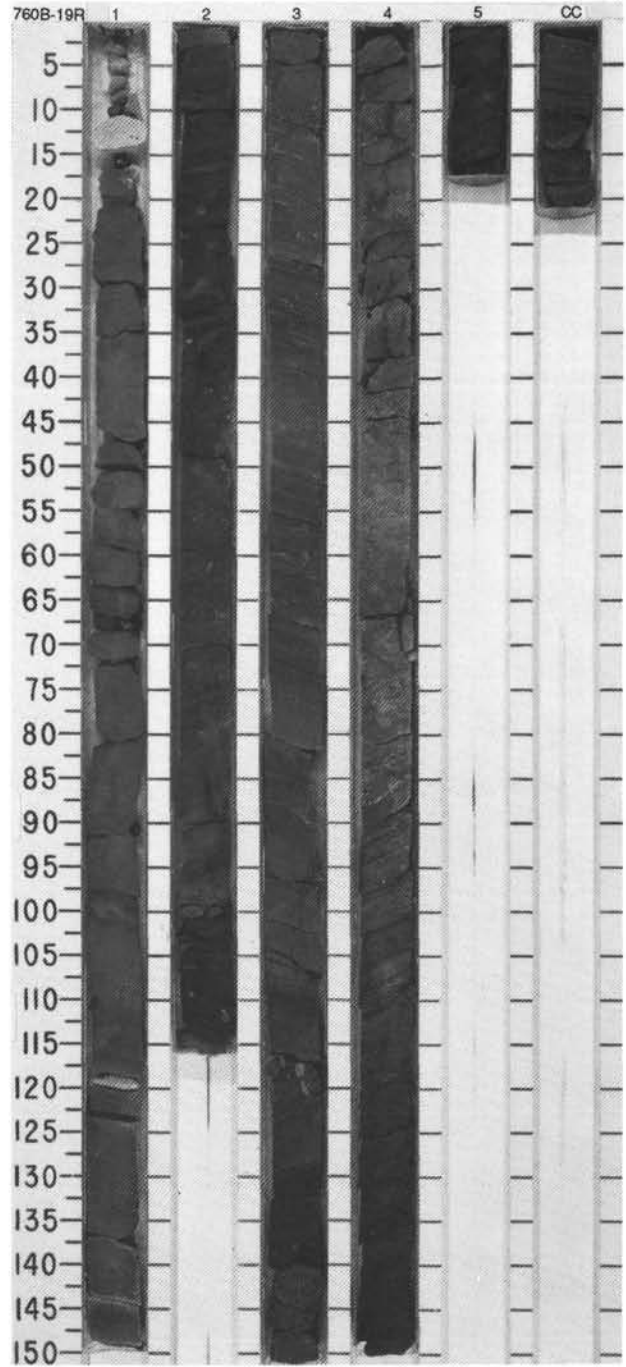
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS						
NORIAN	Barren				1	0.5 1.0			# #	PELOIDAL GRAINSTONE Major lithology: PELOIDAL GRAINSTONE, well sorted, consists of recrystallized, oolite or oncolite coated grains. A cross-laminated interval at Section 2, 26-36 cm. Abundant bioclasts, light gray (2.5Y 7/2), consisting of molluscs, corals, echinoderms in lower part of Section 2. Peloidal grainstone, Section 1, 0 to Section 2, 21 cm and Section 2, 73-101 cm; Bioclastic peloidal carbonate grainstone, Section 2, 36-52 cm. Bioclastic grainstone, Section 2, 52-73 cm. Minor lithology: Recrystallize limestone of finely crystalline dolomite, light gray (2.5Y 7/2), cross laminated, Section 2, 26-36 cm.
	Barren									
					CaCO ₃ = 97.46% TOC = 0.03%					





SITE 760 HOLE B CORE 19R CORED INTERVAL 406.5-416.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																																																																																																																																																								
	FORAMINIFERS	NAANFOSSILS	RADIOLARIANS	DILTOME										PALYNOMORPHS																																																																																																																																																																																																																																							
CARNIAN	Barren							0.5	[Lithology pattern]				<p>SILTY CLAYSTONE, CLAYEY SILTSTONE, AND SILTY SANDSTONE</p> <p>Major lithologies: SILTY CLAYSTONE, black (7.5Y 2/0) massive or parallel laminated, with very dark greenish gray (10Y 3/1) clayey siltstone streaks (1-3 mm thick), and locally strongly bioturbated. CLAYEY SILTSTONE, grayish green (5G 4/2), poorly sorted, includes many carbonaceous veins in Section 3, 140-150 cm and Section 4, 0-100 cm, locally includes some quartz filled voids. SILTY SANDSTONE, very fine- to fine-grained, dominant in Section 1, 16-97 cm and Section 3, 0-6 cm, normally graded with erosional bases and some parallel- and cross-laminae.</p> <p>Minor lithologies: a. Conglomerate bed, white (2.5Y 8/0), Section 1, 0-16 cm. Clasts mainly volcanic rock, chert and limestone fragments, locally grades into carbonaceous wackestone to packstone. b. Silty sandstone, sandy siltstone or clayey siltstone beds, very dark greenish gray (10Y 3/1), interlayered in silty claystone with sharp/flat or slightly, erosional bases. Interbeds (1-3 cm thick) are normally graded, and pass upwards into the silty claystone. c. Sideritic sandy siltstone bed in Section 3, 41-45 cm; and a sideritic layer (2 cm thick) in Section 1, 119-121 cm. d. Pyrite concretions (1-5 mm in diameter) scattered throughout core, pyritized burrow, Section 3, 120-127 cm. e. Coal fragments or seams commonly associated with parallel lamination.</p> <p>SMEAR SLIDE AND THIN SECTION SUMMARY (%):</p> <table border="1"> <thead> <tr> <th></th> <th>1, 2</th> <th>1, 4</th> <th>1, 75</th> <th>1, 103</th> <th>2, 67</th> <th>3, 46</th> <th>4, 56</th> </tr> <tr> <th></th> <th>M</th> <th>M</th> <th>D</th> <th>M</th> <th>D</th> <th>M</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>Sand</td> <td>—</td> <td>—</td> <td>55</td> <td>45</td> <td>5</td> <td>30</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>—</td> <td>—</td> <td>45</td> <td>45</td> <td>35</td> <td>60</td> <td>55</td> </tr> <tr> <td>Clay</td> <td>—</td> <td>—</td> <td>—</td> <td>10</td> <td>60</td> <td>10</td> <td>40</td> </tr> </tbody> </table> <p>TEXTURE:</p> <p>Sand — — 55 45 5 30 5 Silt — — 45 45 35 60 55 Clay — — — 10 60 10 40</p> <p>COMPOSITION:</p> <table border="1"> <thead> <tr> <th></th> <th>1, 2</th> <th>1, 4</th> <th>1, 75</th> <th>1, 103</th> <th>2, 67</th> <th>3, 46</th> <th>4, 56</th> </tr> </thead> <tbody> <tr> <td>Accessory minerals</td> <td>—</td> <td>—</td> <td>5</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Altered grains</td> <td>—</td> <td>—</td> <td>10</td> <td>—</td> <td>—</td> <td>10</td> <td>—</td> </tr> <tr> <td>Bioclast</td> <td>15</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Carbonate</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>5</td> <td>10</td> <td>—</td> </tr> <tr> <td>Chert</td> <td>—</td> <td>—</td> <td>2</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>—</td> <td>—</td> <td>5</td> <td>—</td> <td>38</td> <td>8</td> <td>50</td> </tr> <tr> <td>Feldspar</td> <td>—</td> <td>Tr</td> <td>10</td> <td>—</td> <td>5</td> <td>5</td> <td>15</td> </tr> <tr> <td>Fish</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Glass</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Glauconite</td> <td>—</td> <td>—</td> <td>—</td> <td>2</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Hornblende</td> <td>—</td> <td>—</td> <td>—</td> <td>3</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>2</td> <td>—</td> </tr> <tr> <td>Micrite</td> <td>—</td> <td>60</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Mollusk</td> <td>5</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Opaques</td> <td>—</td> <td>—</td> <td>1</td> <td>10</td> <td>9</td> <td>10</td> <td>5</td> </tr> <tr> <td>Other</td> <td>15</td> <td>15</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Phosphate</td> <td>—</td> <td>—</td> <td>2</td> <td>—</td> <td>2</td> <td>5</td> <td>—</td> </tr> <tr> <td>Plant</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>3</td> <td>—</td> <td>—</td> </tr> <tr> <td>Pyrite</td> <td>—</td> <td>5</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>5</td> <td>20</td> <td>60</td> <td>50</td> <td>38</td> <td>50</td> <td>30</td> </tr> <tr> <td>Rock fragment</td> <td>20</td> <td>—</td> <td>5</td> <td>5</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Siderite</td> <td>—</td> <td>—</td> <td>—</td> <td>30</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Spartite</td> <td>40</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> </tbody> </table>		1, 2	1, 4	1, 75	1, 103	2, 67	3, 46	4, 56		M	M	D	M	D	M	D	Sand	—	—	55	45	5	30	5	Silt	—	—	45	45	35	60	55	Clay	—	—	—	10	60	10	40		1, 2	1, 4	1, 75	1, 103	2, 67	3, 46	4, 56	Accessory minerals	—	—	5	—	—	—	—	Altered grains	—	—	10	—	—	10	—	Bioclast	15	—	—	—	—	—	—	Carbonate	—	—	—	—	5	10	—	Chert	—	—	2	—	—	—	—	Clay	—	—	5	—	38	8	50	Feldspar	—	Tr	10	—	5	5	15	Fish	Tr	—	—	—	—	—	—	Glass	—	—	—	Tr	—	—	—	Glauconite	—	—	—	2	—	—	—	Hornblende	—	—	—	3	—	—	—	Mica	—	—	—	—	—	2	—	Micrite	—	60	—	—	—	—	—	Mollusk	5	—	—	—	—	—	—	Opaques	—	—	1	10	9	10	5	Other	15	15	—	—	—	—	—	Phosphate	—	—	2	—	2	5	—	Plant	—	—	—	—	3	—	—	Pyrite	—	5	—	—	—	—	—	Quartz	5	20	60	50	38	50	30	Rock fragment	20	—	5	5	—	—	—	Siderite	—	—	—	30	—	—	—	Spartite	40	—	—	—	—	—	—
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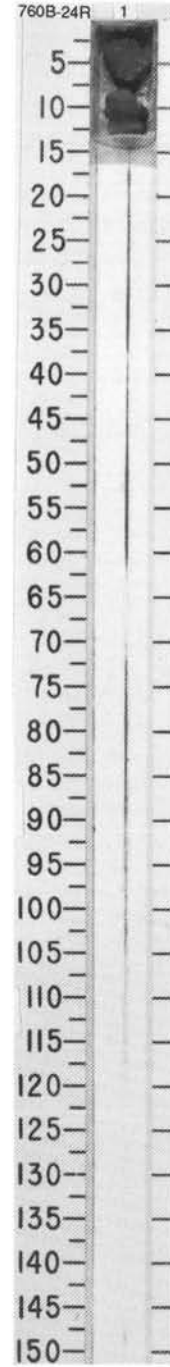
SITE 760 HOLE B CORE 22R CORED INTERVAL 435.0-444.5 mdsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SEP. STRUCTURES SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																																																												
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CARNIAN	Barren							1	0.5	[Lithology pattern]	#	<p>CLAYEY SILTSTONE, SILTY CLAYSTONE, AND SANDY SILTSTONE WITH CLAY</p> <p>Major lithologies: CLAYEY SILTSTONE, very dark gray (5Y 4/1), SILTY CLAYSTONE, black (N2), and SANDY SILTSTONE with CLAY, dark gray (2.5Y 4/0), interlayered. Section 1, 110-113, shelly silty claystone. Sedimentary structures include: root structures and large burrows, Sections 2 and 3; parallel and cross laminations, sandstone dike (Section 3, 60-65 cm) and other liquefaction phenomena (convolute laminations and flame structures).</p> <p>Minor lithologies: a. Recrystallized oyster (?) grainstone (rudstone), gray (5Y 5/1), with intraclasts and other molluscs, Section 1, 0-25 cm. b. Sideritized mudstone, olive gray (5Y 4/2), Section 1, 25-62 cm, with mottles and mud intraclasts, diagenetic. c. Silty sandstone, dark gray (2.5Y 4/0), sandstone with silt, laminae. d. Coal, black (N2), Section 2, 72-82 cm. e. Pyrite in burrows, Section 2, 70 cm, Section 4, 60 cm, and disseminated.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 15</td> <td>1, 95</td> <td>2, 95</td> <td>3, 32</td> <td>4, 68</td> <td>4, 130</td> </tr> <tr> <td></td> <td>M</td> <td>M</td> <td>M</td> <td>M</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>80</td> <td>—</td> <td>70</td> </tr> <tr> <td>Silt</td> <td>—</td> <td>40</td> <td>45</td> <td>20</td> <td>60</td> <td>20</td> </tr> <tr> <td>Clay</td> <td>—</td> <td>60</td> <td>55</td> <td>—</td> <td>40</td> <td>10</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Algae</td> <td>5</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Bioclast</td> <td>—</td> <td>1</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Bivalves</td> <td>25</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>—</td> <td>74</td> <td>80</td> <td>—</td> <td>40</td> <td>10</td> </tr> <tr> <td>Dolomite</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>3</td> <td>—</td> </tr> <tr> <td>Fe oxide</td> <td>—</td> <td>1</td> <td>2</td> <td>5</td> <td>—</td> <td>10</td> </tr> <tr> <td>Feldspar</td> <td>—</td> <td>2</td> <td>5</td> <td>20</td> <td>2</td> <td>10</td> </tr> <tr> <td>Mica</td> <td>—</td> <td>1</td> <td>1</td> <td>4</td> <td>2</td> <td>2</td> </tr> <tr> <td>Plant</td> <td>—</td> <td>2</td> <td>3</td> <td>—</td> <td>2</td> <td>3</td> </tr> <tr> <td>Pyrite</td> <td>—</td> <td>3</td> <td>2</td> <td>—</td> <td>5</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>Tr</td> <td>5</td> <td>5</td> <td>30</td> <td>10</td> <td>30</td> </tr> <tr> <td>Rock fragment</td> <td>—</td> <td>1</td> <td>2</td> <td>41</td> <td>36</td> <td>35</td> </tr> <tr> <td>Siderite</td> <td>—</td> <td>10</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Spar cement</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Zircon</td> <td>—</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> </table>		1, 15	1, 95	2, 95	3, 32	4, 68	4, 130		M	M	M	M	D	M	Sand	—	—	—	80	—	70	Silt	—	40	45	20	60	20	Clay	—	60	55	—	40	10	Algae	5	—	—	—	—	—	Bioclast	—	1	—	—	—	—	Bivalves	25	—	—	—	—	—	Clay	—	74	80	—	40	10	Dolomite	—	—	—	—	3	—	Fe oxide	—	1	2	5	—	10	Feldspar	—	2	5	20	2	10	Mica	—	1	1	4	2	2	Plant	—	2	3	—	2	3	Pyrite	—	3	2	—	5	—	Quartz	Tr	5	5	30	10	30	Rock fragment	—	1	2	41	36	35	Siderite	—	10	—	—	—	—	Spar cement	—	—	—	—	—	—	Zircon	—	Tr	—	—	—	—
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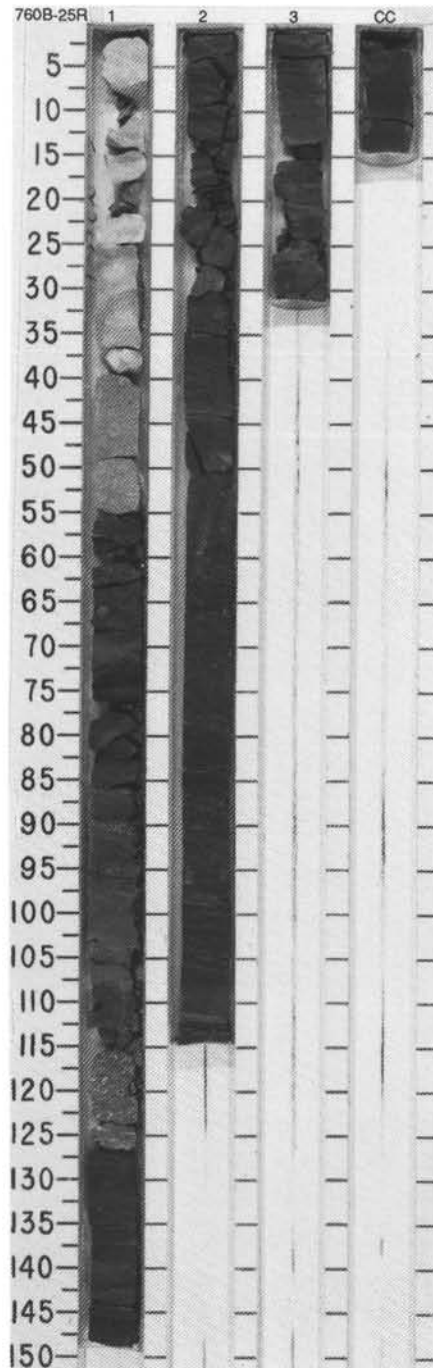


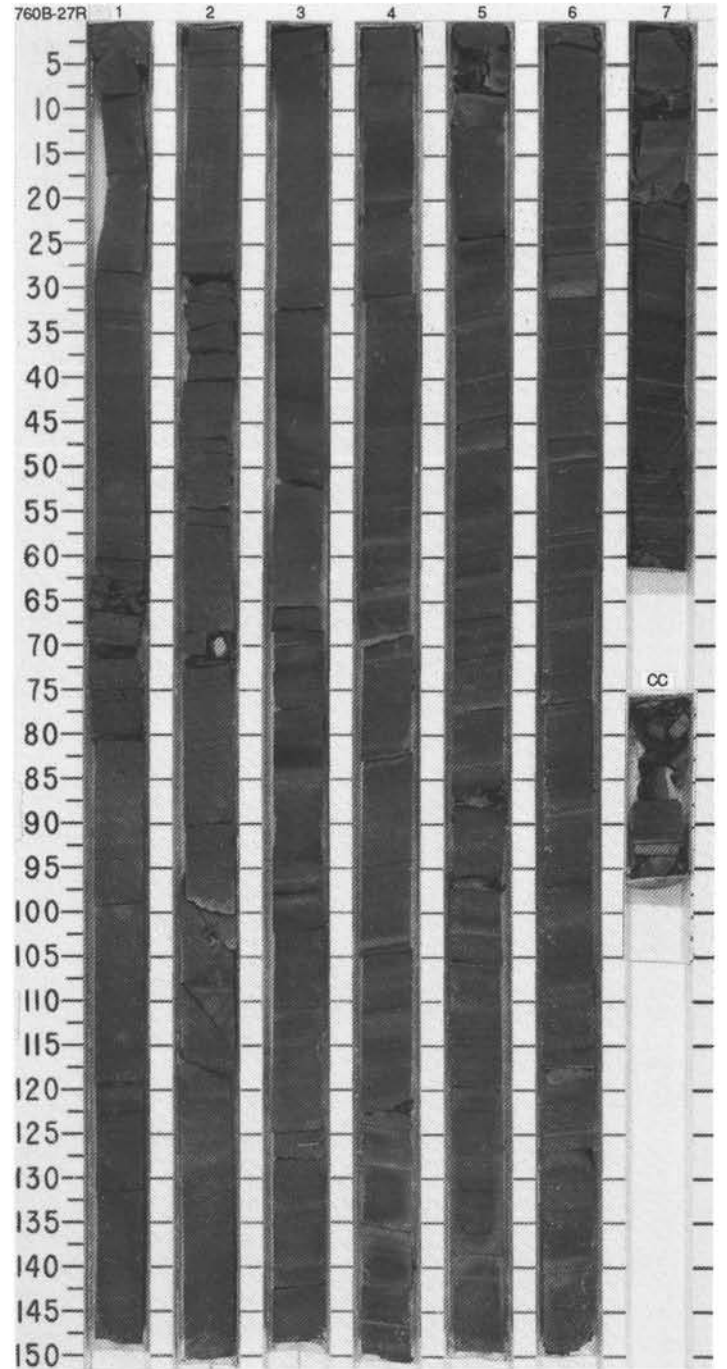
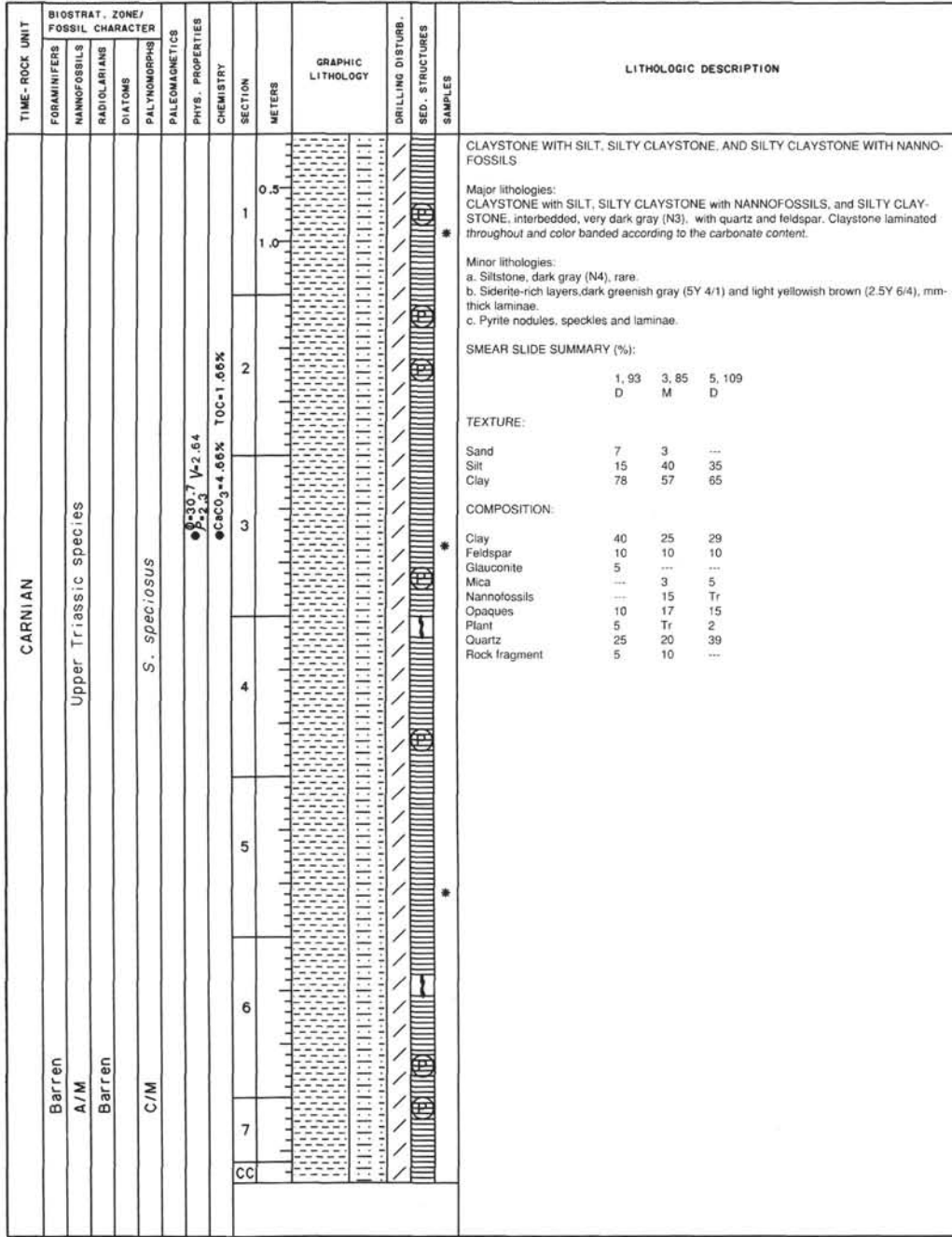
SITE 760 HOLE B CORE 24R CORED INTERVAL 454.0-463.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NAUFOSSILS	RADIOLARIANS	DIATOMS									
CARNIAN	Barren	Barren						1				*	<p>SILTY CLAYSTONE WITH QUARTZ SAND</p> <p>Major lithology: SILTY CLAYSTONE with QUARTZ SAND, dark gray (N3), interbedded with clayey siltstone. Occurs as two fragments of rock each about 3 x 4 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="text-align: right;">1, 5 D</p> <p>TEXTURE:</p> <p>Sand 10 Silt 30 Clay 60</p> <p>COMPOSITION:</p> <p>Bioclast 7 Clay 58 Feldspar 11 Mica 5 Opauques 4 Quartz 15</p>



TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																
	FORAMINIFERS	NAUFOSSILS	RADIOLARIANS	DIAZONS																																																																																							
	PALYNOFORMS																																																																																										
CARNIAN	Upper Triassic species				(V=4.67, 0.2, 2.7) (CaCO ₃ =92.55% TOC=0.11%) V=1.745% V=2.17, 0.23, 2.2, 2.4 CaCO ₃ =0.67% TOC=2.07% TOC=1.71%	1 2 3 CC	0.5 1.0				<p>SILTY CLAYSTONE</p> <p>Major lithologies: SILTY CLAYSTONE, black (5Y 2.5/1), laminated, with minor occurrences of clayey siltstone, parallel to (more rarely) low angle cross-laminations, broad (1 cm) burrows are common in Section 2, 48-110 cm.</p> <p>Minor lithologies: a. Silty sandstone with clay, dark greenish gray (10Y 4/1), grades upward into siltstone and claystone, contains abundant shell fragments, which decrease in number and size upward, Section 1, 115-127 cm. May represent a tempestite. b. Carbonate packstone, olive gray (5Y 2.5/1), mainly composed of sorted, rounded, oriented shell fragments and peloids. These biogenic elements are dark and occur in lighter matrix, Section 1, 40-55 cm. It is overlain by carbonate mudstone to wackestone with disseminated shells and shell fragments (molluscs). c. Silty sandstone with clay, occurs as thin beds and laminae in the silty claystone. d. Sparite filled cavities, light brownish gray (2.5Y 6/2) in carbonates, Section 1, 0-40 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <thead> <tr> <th></th> <th>1, 80 D</th> <th>1, 142 M</th> <th>2, 20 M</th> <th>CC, 10 D</th> </tr> </thead> <tbody> <tr> <td>Sand</td> <td>—</td> <td>—</td> <td>40</td> <td>—</td> </tr> <tr> <td>Silt</td> <td>30</td> <td>15</td> <td>50</td> <td>30</td> </tr> <tr> <td>Clay</td> <td>70</td> <td>85</td> <td>10</td> <td>70</td> </tr> </tbody> </table> <p>TEXTURE:</p> <p>Sand — — 40 — Silt 30 15 50 30 Clay 70 85 10 70</p> <p>COMPOSITION:</p> <table border="1"> <thead> <tr> <th></th> <th>1, 80 D</th> <th>1, 142 M</th> <th>2, 20 M</th> <th>CC, 10 D</th> </tr> </thead> <tbody> <tr> <td>Clay</td> <td>68</td> <td>73</td> <td>10</td> <td>79</td> </tr> <tr> <td>Dolomite</td> <td>—</td> <td>—</td> <td>3</td> <td>2</td> </tr> <tr> <td>Fe oxide</td> <td>—</td> <td>—</td> <td>25</td> <td>—</td> </tr> <tr> <td>Feldspar</td> <td>2</td> <td>2</td> <td>5</td> <td>3</td> </tr> <tr> <td>Fish</td> <td>—</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Mica</td> <td>—</td> <td>1</td> <td>5</td> <td>—</td> </tr> <tr> <td>Plant</td> <td>2</td> <td>5</td> <td>10</td> <td>3</td> </tr> <tr> <td>Pyrite</td> <td>3</td> <td>2</td> <td>—</td> <td>3</td> </tr> <tr> <td>Quartz</td> <td>10</td> <td>2</td> <td>15</td> <td>5</td> </tr> <tr> <td>Rock fragment</td> <td>15</td> <td>—</td> <td>27</td> <td>5</td> </tr> <tr> <td>Siderite</td> <td>Tr</td> <td>15</td> <td>—</td> <td>—</td> </tr> </tbody> </table>		1, 80 D	1, 142 M	2, 20 M	CC, 10 D	Sand	—	—	40	—	Silt	30	15	50	30	Clay	70	85	10	70		1, 80 D	1, 142 M	2, 20 M	CC, 10 D	Clay	68	73	10	79	Dolomite	—	—	3	2	Fe oxide	—	—	25	—	Feldspar	2	2	5	3	Fish	—	—	—	Tr	Mica	—	1	5	—	Plant	2	5	10	3	Pyrite	3	2	—	3	Quartz	10	2	15	5	Rock fragment	15	—	27	5	Siderite	Tr	15	—	—
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Feldspar	2	2	5	3																																																																																							
Fish	—	—	—	Tr																																																																																							
Mica	—	1	5	—																																																																																							
Plant	2	5	10	3																																																																																							
Pyrite	3	2	—	3																																																																																							
Quartz	10	2	15	5																																																																																							
Rock fragment	15	—	27	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																																																										
CARNIAN	Upper Triassic species					$\frac{1}{2}$ -2.12 $\frac{0-24.9}{2.1}$	$\text{CaCO}_3=2.42\%$ $\text{TOC}=1.75\%$	1	0.5				*	<p>SILTY CLAYSTONE, CLAYEY SILTSTONE, AND SANDY SILTSTONE WITH CLAY</p> <p>Major lithologies: SILTY CLAYSTONE, black (2.5Y 2/0) to very dark gray (2.5Y 3/0) dominant, Section 1, 0-150 cm, Section 2, 67-102 cm and 107-120 cm, Section 4, 0-150 cm and CC, 0-38 cm. Silty claystones are parallel laminated and affected by moderate bioturbation and syndimentary deformation. SANDY SILTSTONE with CLAY, very dark gray (2.5Y 3/0), massive or parallel laminated with minor erosional bases, grades upward into CLAYEY SILTSTONE locally overlain, by thin beds of silty claystone (1-2 cm thick), showing fining-upward sequences (20-45 cm thick). Sandy siltstone partly modified by syndimentary deformation. In Section 1, 82-150 cm, Section 4, 80-95 cm and CC, 30-32 cm, silty claystones interlayered with irregular sandy siltstone laminae (1-5 mm thick).</p> <p>Minor lithologies: a. Sideritic clayey siltstone or silty claystone layers (1-6 mm thick), olive yellow (2.5Y 6/6) interlayered, Section 1, 21-50 cm, and Section 3, 90-91 cm. Some sideritic concretions (1-40 mm in diameter), Section 2, 36-40 cm and Section 4, 56-64 cm. b. Pyrite concretions included in the silty claystone and the sandy siltstone, Section 2, 113-115 cm and Section 3, 4-6 cm. c. Small molluscan shell (bivalve), Section 2, 78-80 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 28</td> <td>3, 49</td> </tr> <tr> <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>30</td> </tr> <tr> <td>Silt</td> <td>35</td> <td>60</td> </tr> <tr> <td>Clay</td> <td>60</td> <td>10</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>—</td> <td>5</td> </tr> <tr> <td>Altered grains</td> <td>—</td> <td>10</td> </tr> <tr> <td>Carbonate</td> <td>3</td> <td>10</td> </tr> <tr> <td>Clay</td> <td>40</td> <td>10</td> </tr> <tr> <td>Cellulose</td> <td>—</td> <td>5</td> </tr> <tr> <td>Feldspar</td> <td>2</td> <td>5</td> </tr> <tr> <td>Garnet</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>5</td> <td>—</td> </tr> <tr> <td>Opalines</td> <td>5</td> <td>5</td> </tr> <tr> <td>Quartz</td> <td>40</td> <td>40</td> </tr> <tr> <td>Rock fragment</td> <td>5</td> <td>10</td> </tr> </table>		1, 28	3, 49	D	D	D	Sand	5	30	Silt	35	60	Clay	60	10	Accessory minerals	—	5	Altered grains	—	10	Carbonate	3	10	Clay	40	10	Cellulose	—	5	Feldspar	2	5	Garnet	Tr	—	Mica	5	—	Opalines	5	5	Quartz	40	40	Rock fragment	5	10
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