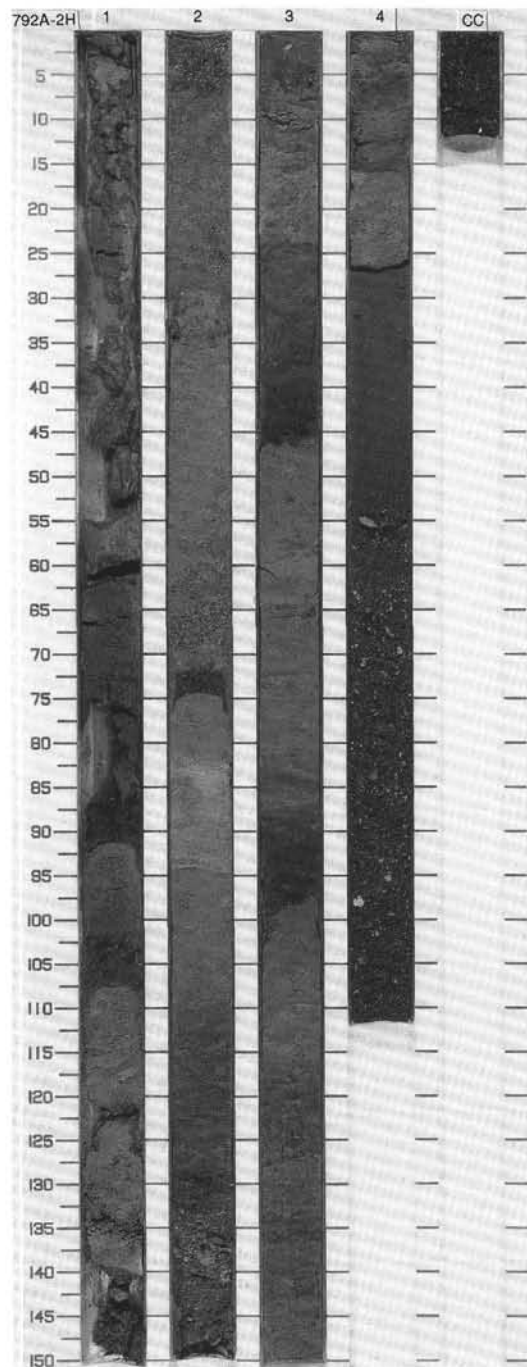
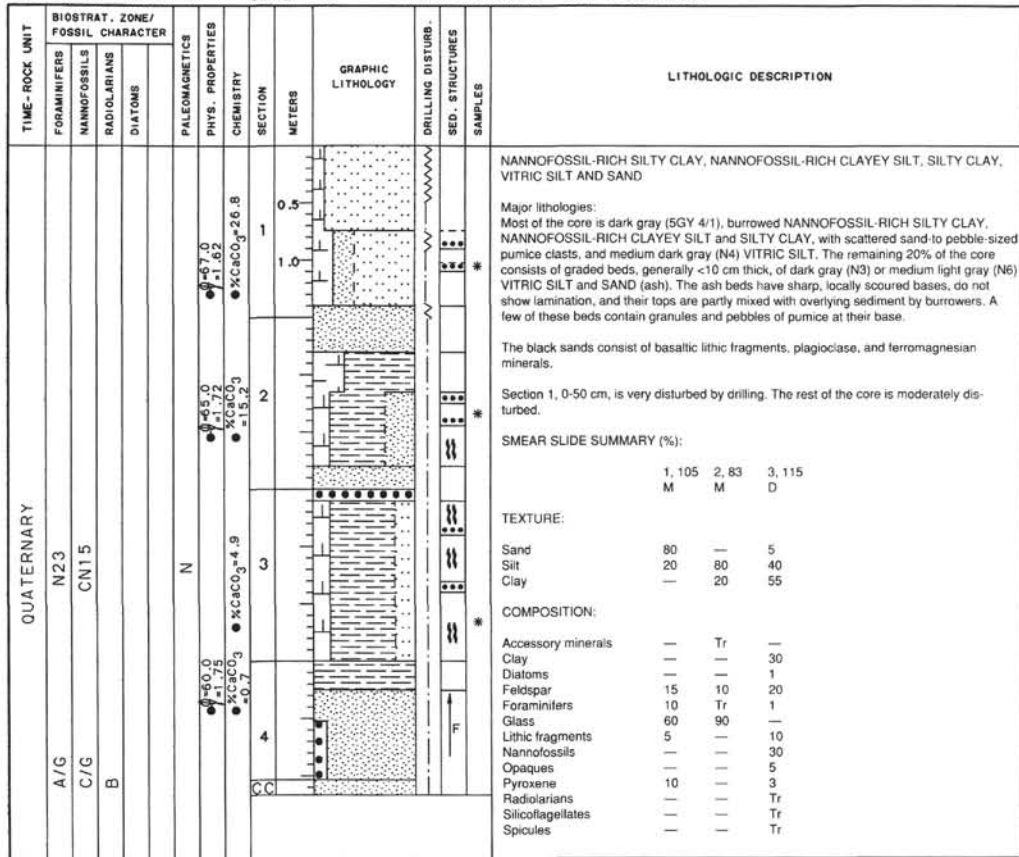
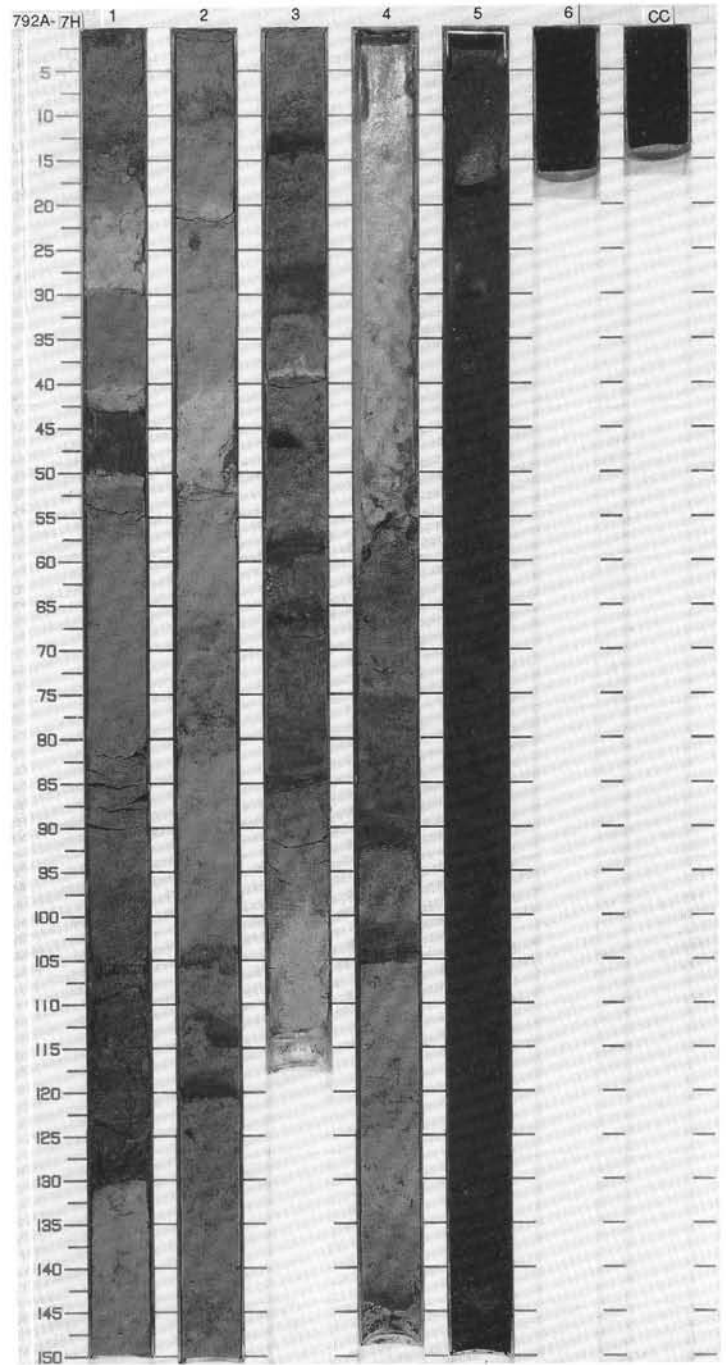
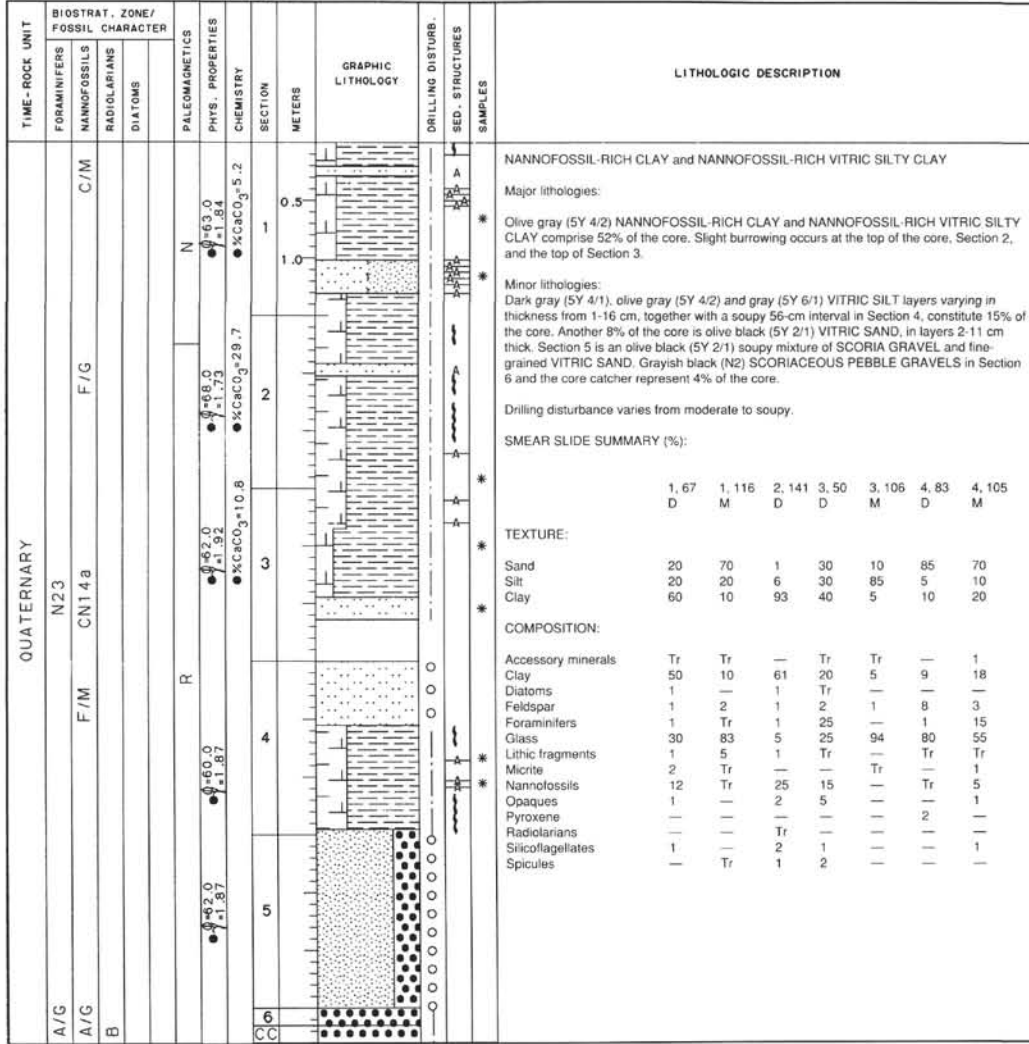
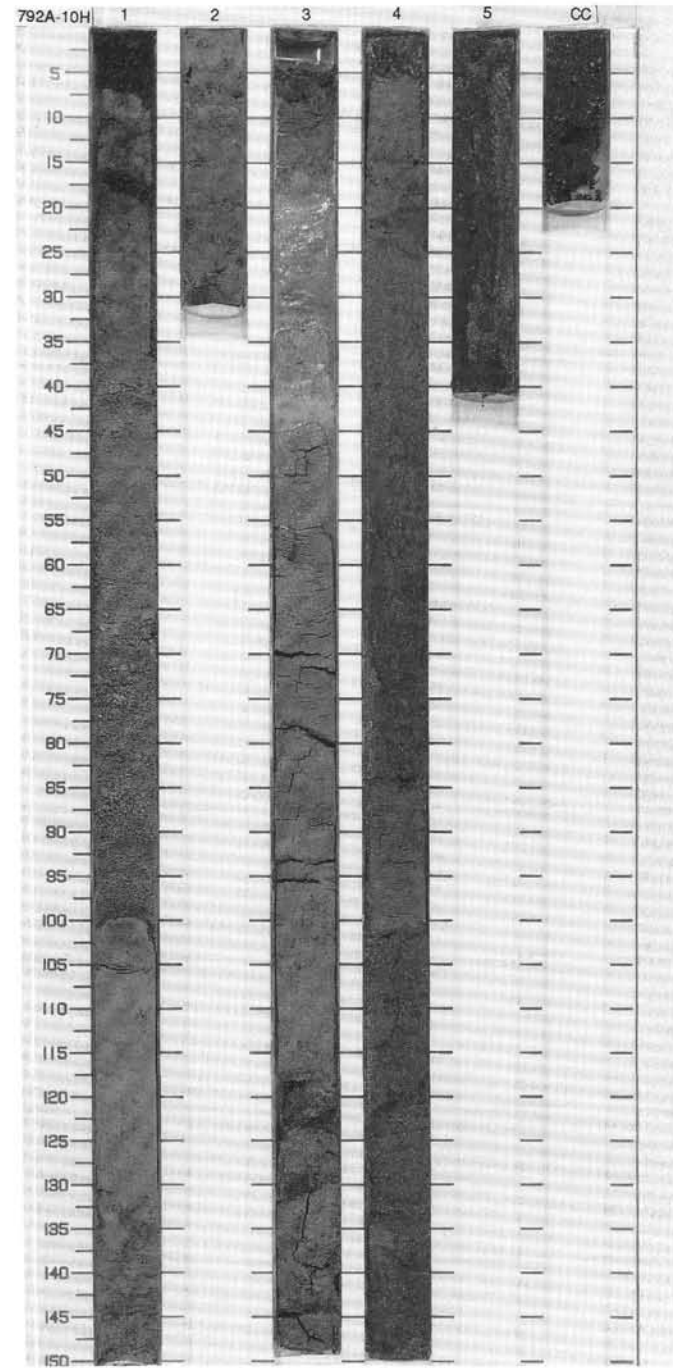
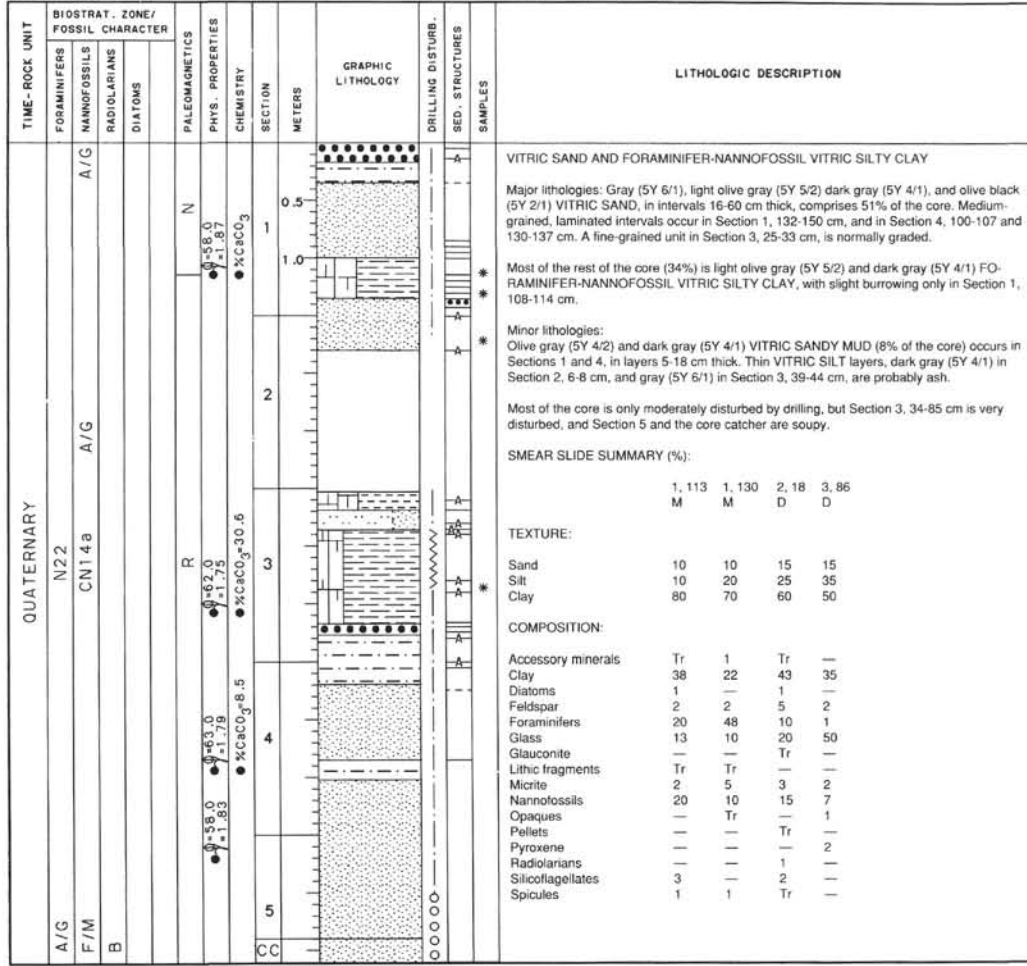


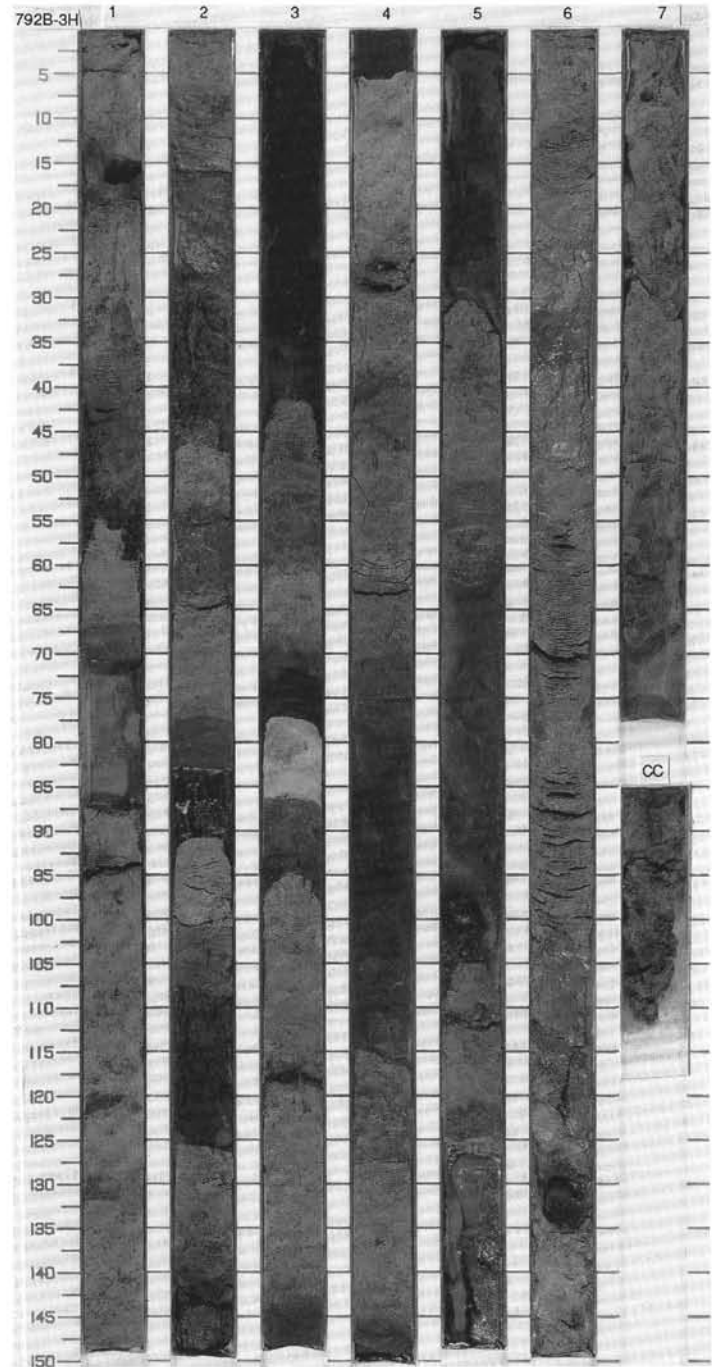
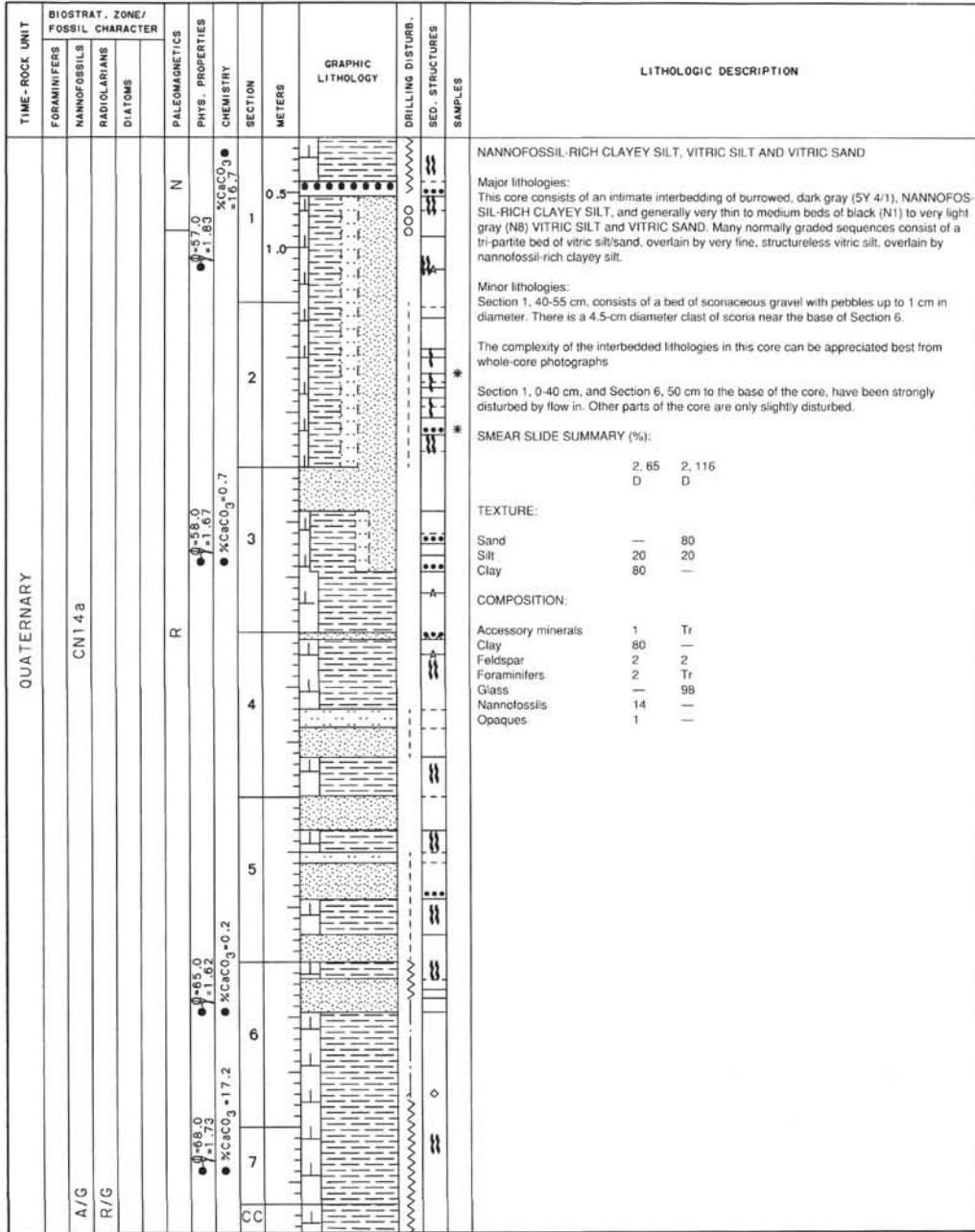
SITE 792 HOLE A CORE 2H CORED INTERVAL 9.7-19.1 mbsf



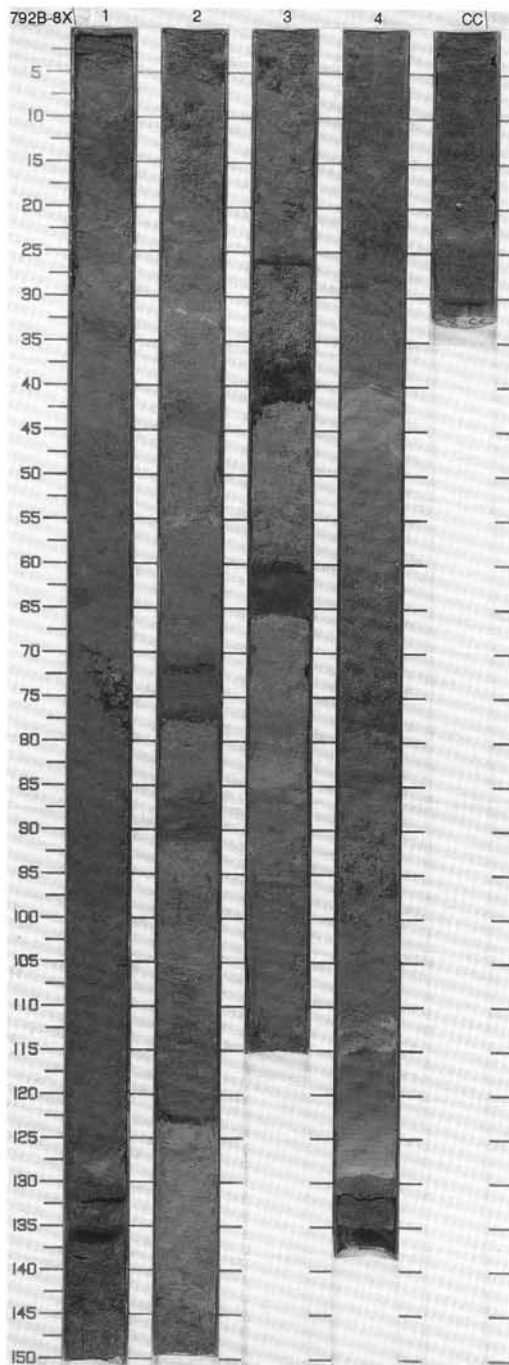
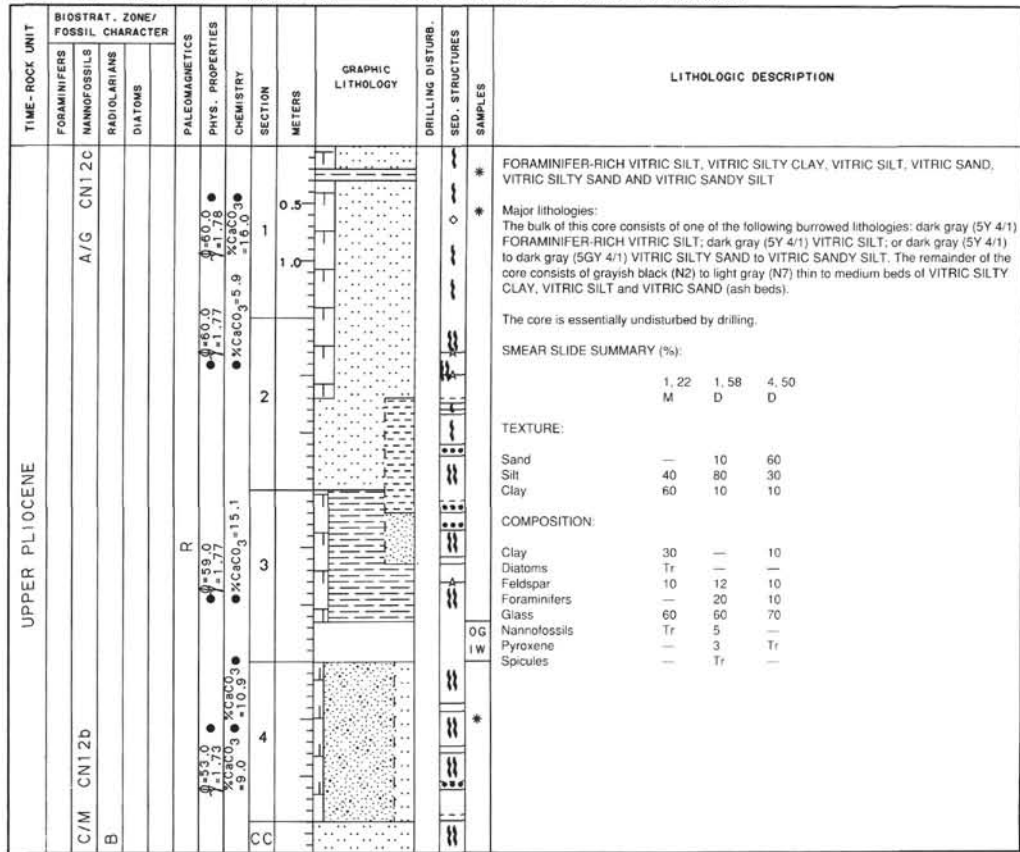


SITE 792 HOLE A CORE 10H CORED INTERVAL 85.3-95.0 mbsf

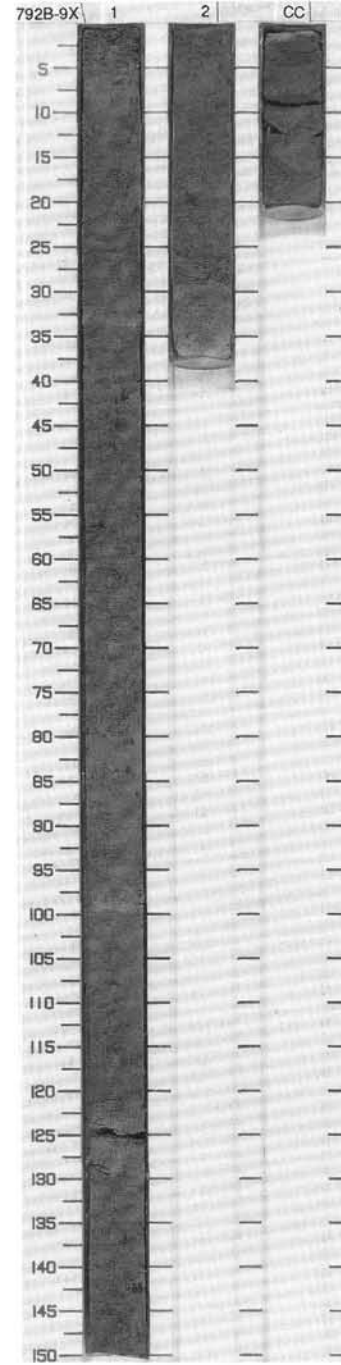




SITE 792 HOLE B CORE 8X CORED INTERVAL 107.9-117.5 mbsf

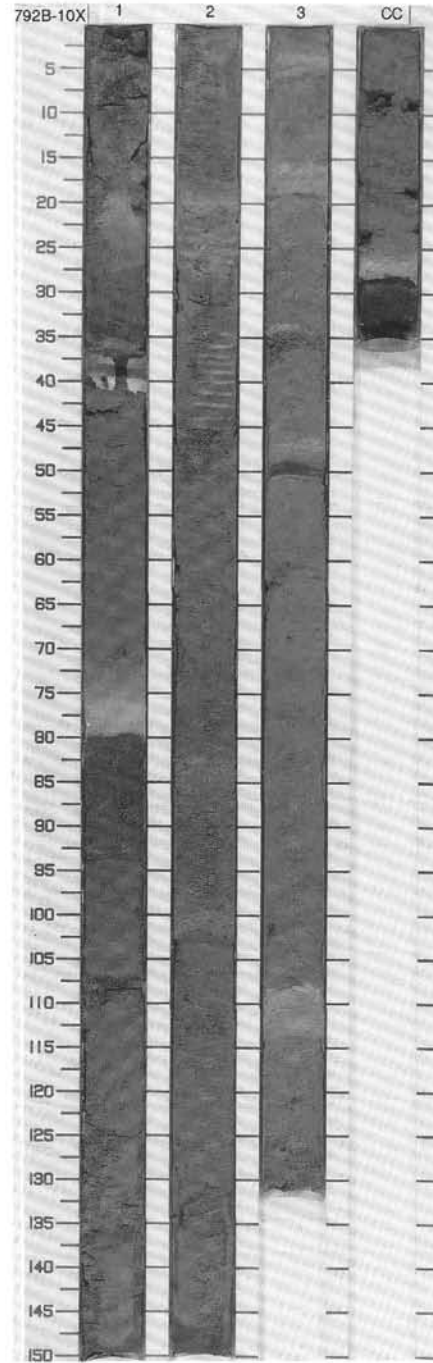


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
UPPER PLIOCENE														
	A/G	CNT 2b			R	$\phi = 1.0$ $\sigma = 1.66$ $\chi_{CaCO_3} = 13.0$ $\chi_{TOC} = 1.0$		1	0.5 1.0	[Dotted pattern]			*	<p>NANNOFOSSIL-RICH VITRIC SILT</p> <p>Major lithology: The core is almost entirely dark gray (5Y 4/1), slightly burrowed NANNO-FOSSIL-RICH VITRIC SILT, interbedded with widely separated beds, generally <2 cm thick, of light gray (N7) VITRIC SILT (ash).</p> <p>The core is essentially undisturbed by drilling.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="text-align: right;">1, 20 D</p> <p>TEXTURE:</p> <p>Silt 20 Clay 80</p> <p>COMPOSITION:</p> <p>Clay 62 Diatoms 1 Feldspar 2 Foraminifers 1 Glass 20 Inorganic calcite 1 Nannofossils 10 Opaques 1 Pyroxene 1 Spicules 1</p>





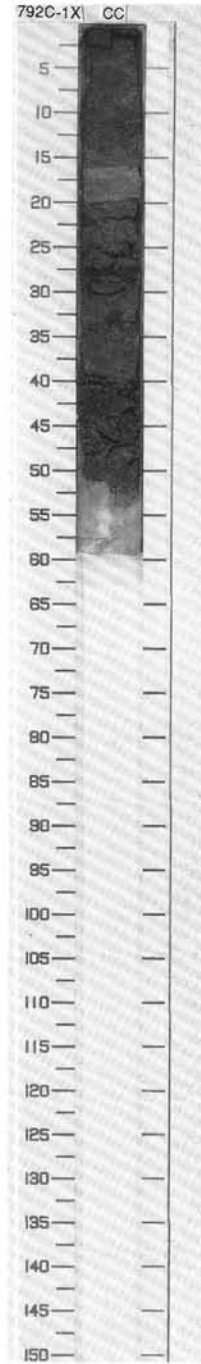
SITE 792 HOLE B CORE 10X CORED INTERVAL 127.1 -136.8 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SEC. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																							
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																																																
UPPER PLIOCENE	A/G				N	● $\phi = 59.0$ ● $\gamma = 1.74$ ● $\%CaCO_3 = 4.2$		1	0.5 1.0	[Lithology symbols]	[Disturbance symbols]	*	VITRIC CLAYEY SILT, VITRIC SILTY CLAY, NANNOFOSSIL-RICH VITRIC SILTY CLAY, AND NANNOFOSSIL-RICH VITRIC SANDY MUD Major lithologies: More than half (51%) of the core consists of olive gray (5Y 4/2) VITRIC CLAYEY SILT, VITRIC SILTY CLAY and NANNOFOSSIL-RICH VITRIC SILTY CLAY. Two closely associated lithologies with the same color are VITRIC SILTY CLAY (18% of the core) and, in Section 1, 0-72 cm, NANNOFOSSIL-RICH VITRIC SANDY MUD (17% of the core). These sediments are slightly burrowed. Minor lithologies: Very dark gray (5Y 3/1), dark gray (5Y 4/1), olive gray (5Y5/2) light olive gray (5Y 6/2), and light gray (5Y 7/1) VITRIC SILT and VITRIC SAND occur throughout the core as ash layers, 1-7 cm thick. Several of the thicker ones are planar-laminated. The entire core has been moderately disturbed by drilling.																																																																							
	CN12b													● $\phi = 65.0$ ● $\gamma = 1.64$ ● $\%CaCO_3 = 5.7$	2	2	[Lithology symbols]	[Disturbance symbols]	*	SMEAR SLIDE SUMMARY (%): <table border="1"> <thead> <tr> <th></th> <th>1, 50</th> <th>2, 102</th> <th>2, 129</th> <th>3, 67</th> </tr> </thead> <tbody> <tr> <td>D</td> <td></td> <td>M</td> <td>D</td> <td>D</td> </tr> </tbody> </table>		1, 50	2, 102	2, 129	3, 67	D		M	D	D																																																						
		1, 50	2, 102	2, 129																	3, 67																																																															
D		M	D	D																																																																																
R/P B				● $\phi = 62.0$ ● $\gamma = 1.68$ ● $\%CaCO_3 = 18.2$	3	3	[Lithology symbols]	[Disturbance symbols]	*	TEXTURE: <table border="1"> <tbody> <tr> <td>Sand</td> <td>35</td> <td>3</td> <td>10</td> <td>20</td> </tr> <tr> <td>Silt</td> <td>30</td> <td>77</td> <td>65</td> <td>35</td> </tr> <tr> <td>Clay</td> <td>35</td> <td>20</td> <td>25</td> <td>45</td> </tr> </tbody> </table>	Sand	35	3	10	20	Silt	30	77	65	35	Clay	35	20	25	45																																																											
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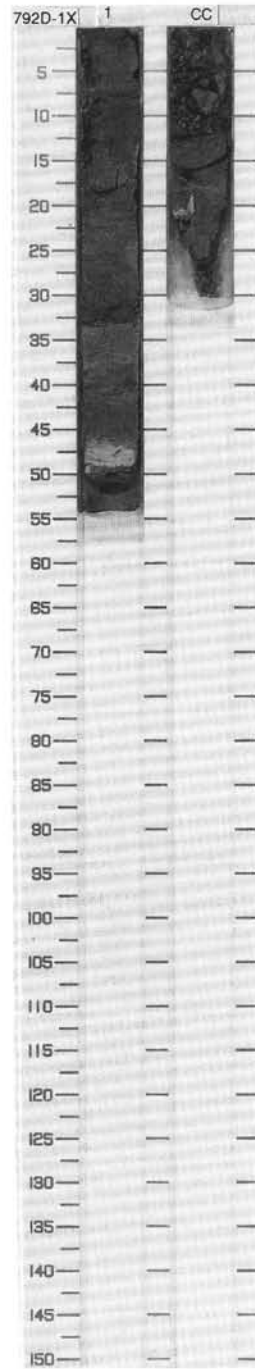


SITE 792 HOLE C CORE 1X CORED INTERVAL 136.8-146.4 mbsf

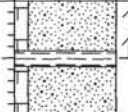
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																						
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UPPER PLOCENE	A/G	C/G		N		XCRICO ₃ =6.0	C				# #	<p>NANNOFOSSIL-RICH VITRIC SILTY CLAYSTONE</p> <p>Major lithology: Except for the minor lithologies listed below, 90% of the core consists of olive gray (5Y 4/2) NANNOFOSSIL-RICH VITRIC SILTY CLAYSTONE. A burrow, 12 cm in diameter at 33 cm, is filled by olive gray (5Y 3/2) medium-grained sand.</p> <p>Minor lithologies: A VITRIC ASH layer at 15-18 cm is colored gray (5Y 6/1) in its upper and lower thirds, and gray (5Y 5/1) in the middle. Two 1-cm thick grayish black (N2) layers of coarse-grained scoriaceous sand occur at 25 and 27 cm.</p> <p>The core is moderately disturbed by drilling from 0-40 cm, and very disturbed from 40-51 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <thead> <tr> <th></th> <th>CC. 8 D</th> <th>CC. 18 M</th> </tr> </thead> <tbody> <tr> <td>Sand</td> <td>5</td> <td>1</td> </tr> <tr> <td>Silt</td> <td>40</td> <td>74</td> </tr> <tr> <td>Clay</td> <td>55</td> <td>25</td> </tr> </tbody> </table> <p>TEXTURE:</p> <p>Sand 5 1 Silt 40 74 Clay 55 25</p> <p>COMPOSITION:</p> <table border="1"> <thead> <tr> <th></th> <th>1</th> <th>Tr</th> </tr> </thead> <tbody> <tr> <td>Accessory minerals</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>52</td> <td>20</td> </tr> <tr> <td>Diatoms</td> <td>2</td> <td>—</td> </tr> <tr> <td>Feldspar</td> <td>2</td> <td>4</td> </tr> <tr> <td>Foraminifers</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Glass</td> <td>25</td> <td>68</td> </tr> <tr> <td>Lithic fragments</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Micrite</td> <td>2</td> <td>1</td> </tr> <tr> <td>Nannofossils</td> <td>12</td> <td>2</td> </tr> <tr> <td>Opales</td> <td>—</td> <td>5</td> </tr> <tr> <td>Quartz</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Silicoflagellates</td> <td>3</td> <td>—</td> </tr> </tbody> </table>		CC. 8 D	CC. 18 M	Sand	5	1	Silt	40	74	Clay	55	25		1	Tr	Accessory minerals	1	Tr	Clay	52	20	Diatoms	2	—	Feldspar	2	4	Foraminifers	1	Tr	Glass	25	68	Lithic fragments	Tr	Tr	Micrite	2	1	Nannofossils	12	2	Opales	—	5	Quartz	Tr	—	Radiolarians	Tr	—	Silicoflagellates	3	—
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	N21 - N22	C/G		N	0-5.0 -1.85	CCO	CC	1				*	<p>NANNOFOSSIL-RICH VITRIC SILTY CLAY</p> <p>Major lithology: 90% of the core consists of structureless olive gray (5Y 4/2) NANNOFOS-SIL-RICH VITRIC SILTY CLAYSTONE.</p> <p>Minor lithologies: A grayish black (N2), very fine-grained VITRIC SAND occurs at 31-33 cm, and a light gray (5Y 7/1) VITRIC SILT layer occurs at Section 1, 47-50 cm. Both of these layers are ash beds.</p> <p>The core is very disturbed by drilling in Section 1, 0-15 cm and in the core catcher, and moderately disturbed in Section 1, 15-50 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <thead> <tr> <th></th> <th>1, 25 D</th> <th>1, 47 M</th> <th>CC, 14 D</th> </tr> </thead> <tbody> <tr> <td>Sand</td> <td>20</td> <td>—</td> <td>15</td> </tr> <tr> <td>Silt</td> <td>25</td> <td>100</td> <td>35</td> </tr> <tr> <td>Clay</td> <td>55</td> <td>—</td> <td>50</td> </tr> </tbody> </table> <p>TEXTURE:</p> <table border="1"> <thead> <tr> <th></th> <th>1, 25 D</th> <th>1, 47 M</th> <th>CC, 14 D</th> </tr> </thead> <tbody> <tr> <td>Sand</td> <td>20</td> <td>—</td> <td>15</td> </tr> <tr> <td>Silt</td> <td>25</td> <td>100</td> <td>35</td> </tr> <tr> <td>Clay</td> <td>55</td> <td>—</td> <td>50</td> </tr> </tbody> </table> <p>COMPOSITION:</p> <table border="1"> <thead> <tr> <th></th> <th>1, 25 D</th> <th>1, 47 M</th> <th>CC, 14 D</th> </tr> </thead> <tbody> <tr> <td>Clay</td> <td>48</td> <td>—</td> <td>45</td> </tr> <tr> <td>Diatoms</td> <td>1</td> <td>—</td> <td>2</td> </tr> <tr> <td>Feldspar</td> <td>2</td> <td>1</td> <td>2</td> </tr> <tr> <td>Foraminifers</td> <td>4</td> <td>—</td> <td>2</td> </tr> <tr> <td>Glass</td> <td>20</td> <td>99</td> <td>30</td> </tr> <tr> <td>Lithic fragments</td> <td>2</td> <td>Tr</td> <td>2</td> </tr> <tr> <td>Micrite</td> <td>3</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>15</td> <td>Tr</td> <td>10</td> </tr> <tr> <td>Opauques</td> <td>1</td> <td>—</td> <td>—</td> </tr> <tr> <td>Pyroxene</td> <td>—</td> <td>—</td> <td>2</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td>—</td> <td>1</td> </tr> <tr> <td>Silicoflagellates</td> <td>3</td> <td>—</td> <td>3</td> </tr> <tr> <td>Spicules</td> <td>1</td> <td>—</td> <td>1</td> </tr> </tbody> </table>		1, 25 D	1, 47 M	CC, 14 D	Sand	20	—	15	Silt	25	100	35	Clay	55	—	50		1, 25 D	1, 47 M	CC, 14 D	Sand	20	—	15	Silt	25	100	35	Clay	55	—	50		1, 25 D	1, 47 M	CC, 14 D	Clay	48	—	45	Diatoms	1	—	2	Feldspar	2	1	2	Foraminifers	4	—	2	Glass	20	99	30	Lithic fragments	2	Tr	2	Micrite	3	Tr	—	Nannofossils	15	Tr	10	Opauques	1	—	—	Pyroxene	—	—	2	Radiolarians	Tr	—	1	Silicoflagellates	3	—	3	Spicules	1	—	1
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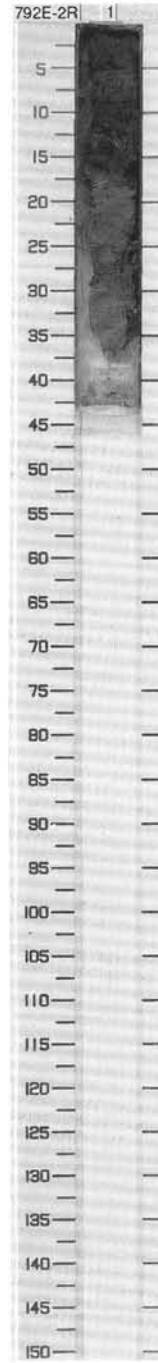


SITE 792 HOLE E CORE 1R CORED INTERVAL 135.6-145.2 mbsf

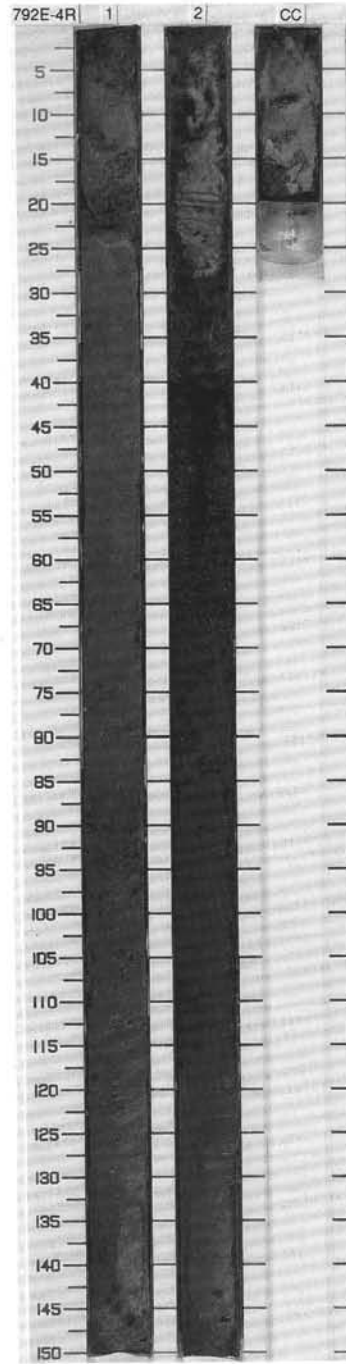
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																								
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UPPER PLIOCENE	N21	A/M	A/G	C/G	N	9-5.0 ● 4-5.0 ● XGRO 3 ● = 1.2.9 ●		1					<p>FORAMINIFER-RICH SILTY SAND</p> <p>Major lithology: Slightly to moderately burrowed, fine grained, light olive gray (5Y 5/2) FORAMINIFER-RICH SILTY SAND. Foraminifers can be easily seen with a hand lens. At Section 1, 10 cm, there are abundant foraminifers, 0.3 cm bivalves, and rounded granules.</p> <p>Minor lithology: Section 1, 46-54 cm, consists of olive gray (5Y 3/2), stiff CLAYEY SILT.</p> <p>Section 1, 0-60 cm, is slightly to moderately fractured by drilling</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr><td>1.90</td></tr> <tr><td>D</td></tr> </table> <p>TEXTURE:</p> <table border="0"> <tr><td>Sand</td><td>70</td></tr> <tr><td>Silt</td><td>20</td></tr> <tr><td>Clay</td><td>10</td></tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr><td>Accessory minerals</td><td>2</td></tr> <tr><td>Feldspar</td><td>3</td></tr> <tr><td>Foraminifers</td><td>20</td></tr> <tr><td>Glass</td><td>65</td></tr> <tr><td>Nannofossils</td><td>7</td></tr> <tr><td>Quartz</td><td>3</td></tr> <tr><td>Radiolarians</td><td>Tr</td></tr> <tr><td>Spicules</td><td>Tr</td></tr> </table>	1.90	D	Sand	70	Silt	20	Clay	10	Accessory minerals	2	Feldspar	3	Foraminifers	20	Glass	65	Nannofossils	7	Quartz	3	Radiolarians	Tr	Spicules	Tr
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UPPER PLIOCENE	A/M	A/G		N			1					*	<p>NANNOFOSSIL-RICH VITRIC SILTY CLAY</p> <p>Major lithology: Olive gray (5Y 4/2) NANNOFOSSIL-RICH VITRIC SILTY CLAY. The interval 11-17 cm is slightly burrowed, and the burrows are filled with medium- to coarse-grained scoriaceous sand.</p> <p>Minor lithology: At 17 cm there is a dark greenish gray (10Y5/1) pocket of silt-sized ash.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="text-align: right;">1, 21 D</p> <p>TEXTURE:</p> <p>Sand 2 Silt 23 Clay 75</p> <p>COMPOSITION:</p> <p>Accessory minerals Tr Biotite Tr Clay 62 Diatoms 3 Feldspar 1 Foraminifers 1 Glass 15 Lithic fragments 2 Micrite 1 Nannofossils 10 Radiolarians Tr Silicoflagellates 5 Spicules Tr</p>

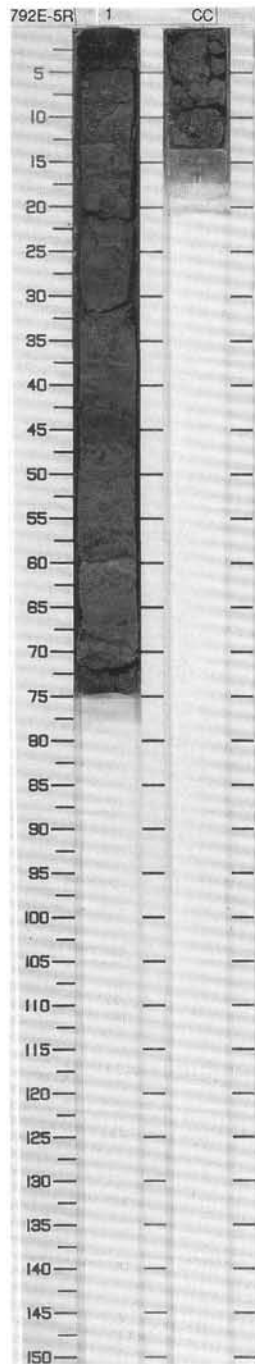


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																
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UPPER PLIOCENE	C/M	F/M	B		N	0.65, 0 -2.0	%CaCO ₃ =9.2	1	0.5 1.0			*	<p>NANNOFOSSIL-RICH CLAY</p> <p>Major lithology: More than half (56%) of the core is composed of olive gray (5Y 4/2), slightly burrowed NANNOFOSSIL-RICH CLAY.</p> <p>Minor lithologies: A layer of structureless, silty, very coarse, grayish black (N2) VITRIC SAND in Section 2, 25-75 cm. comprises 16% of the core. It is underlain by an olive black (5Y 2/1), structureless CLAY (14% of the core). Variable contents of volcanoclastic and biogenic components give rise to two olive gray (5Y 3/2) variations from the major lithology: NANNOFOSSIL-RICH SILTY CLAY (9% of the core), and VITRIC SILTY CLAY (5%).</p> <p>The core is moderately disturbed by drilling in Section 1 and is highly disturbed in the rest of the core.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 50</td> <td>2, 20</td> <td>2, 91</td> </tr> <tr> <td>D</td> <td></td> <td>M</td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>5</td> <td>5</td> <td>7</td> </tr> <tr> <td>Silt</td> <td>20</td> <td>25</td> <td>13</td> </tr> <tr> <td>Clay</td> <td>75</td> <td>70</td> <td>80</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Biotite</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>68</td> <td>86</td> <td>80</td> </tr> <tr> <td>Diatoms</td> <td>Tr</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Feldspar</td> <td>5</td> <td>2</td> <td>2</td> </tr> <tr> <td>Foraminifers</td> <td>1</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Glass</td> <td>10</td> <td>24</td> <td>10</td> </tr> <tr> <td>Lithic fragments</td> <td>—</td> <td>Tr</td> <td>1</td> </tr> <tr> <td>Micrite</td> <td>2</td> <td>1</td> <td>1</td> </tr> <tr> <td>Nannofossils</td> <td>10</td> <td>3</td> <td>2</td> </tr> <tr> <td>Opaques</td> <td>1</td> <td>—</td> <td>1</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Silicoflagellates</td> <td>Tr</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Spicules</td> <td>1</td> <td>—</td> <td>—</td> </tr> <tr> <td>Zeolite</td> <td>—</td> <td>—</td> <td>1</td> </tr> </table>		1, 50	2, 20	2, 91	D		M	M	Sand	5	5	7	Silt	20	25	13	Clay	75	70	80	Accessory minerals	2	2	2	Biotite	Tr	—	—	Clay	68	86	80	Diatoms	Tr	1	Tr	Feldspar	5	2	2	Foraminifers	1	Tr	Tr	Glass	10	24	10	Lithic fragments	—	Tr	1	Micrite	2	1	1	Nannofossils	10	3	2	Opaques	1	—	1	Radiolarians	Tr	—	—	Silicoflagellates	Tr	Tr	—	Spicules	1	—	—	Zeolite	—	—	1
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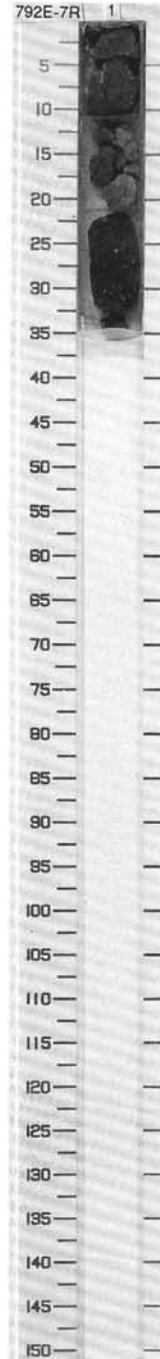
SITE 792 HOLE E CORE 5R CORED INTERVAL 174.1-183.7 mbsf

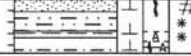
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UPPER PLOIOCENE	A/G	N21	CN1 2a	N		XGRCO ● ±20.8	1	0.5		A	*	<p>NANNOFOSSIL-RICH VITRIC SILTY CLAY</p> <p>Major lithology: Structureless, olive gray (5Y 4/2) NANNOFOSSIL-RICH VITRIC SILTY CLAY constitutes 85% of the core.</p> <p>Minor lithologies: 10% of the core is a dark gray (5Y 4/1) VITRIC SILTSTONE ash layer in Section 1, 25-32 cm, the first lithified interval in the hole. The remaining 5% of the core consists of olive (5Y 5/3) and gray (5Y 5/1) VITRIC SILT intervals at the bottom of Section 1 and in the core catcher.</p> <p>The core is very disturbed in Section 1, 0-5 cm, moderately fractured in Section 1, 10-30 cm, moderately disturbed in Section 1, 32-75 cm, and very disturbed in the core catcher.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 29</td> <td>1, 63</td> <td>1, 73</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>20</td> <td>10</td> <td>30</td> </tr> <tr> <td>Silt</td> <td>70</td> <td>30</td> <td>60</td> </tr> <tr> <td>Clay</td> <td>10</td> <td>60</td> <td>10</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>—</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>10</td> <td>50</td> <td>10</td> </tr> <tr> <td>Diatoms</td> <td>1</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Feldspar</td> <td>2</td> <td>1</td> <td>1</td> </tr> <tr> <td>Foraminifers</td> <td>Tr</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Glass</td> <td>81</td> <td>30</td> <td>87</td> </tr> <tr> <td>Lithic fragments</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Micrite</td> <td>Tr</td> <td>2</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>1</td> <td>15</td> <td>2</td> </tr> <tr> <td>Opaques</td> <td>5</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Silicoflagellates</td> <td>—</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Spicules</td> <td>—</td> <td>Tr</td> <td>—</td> </tr> </table>		1, 29	1, 63	1, 73		M	D	M	Sand	20	10	30	Silt	70	30	60	Clay	10	60	10	Accessory minerals	—	Tr	Tr	Clay	10	50	10	Diatoms	1	1	Tr	Feldspar	2	1	1	Foraminifers	Tr	1	Tr	Glass	81	30	87	Lithic fragments	Tr	—	—	Micrite	Tr	2	—	Nannofossils	1	15	2	Opaques	5	—	Tr	Silicoflagellates	—	Tr	Tr	Spicules	—	Tr	—
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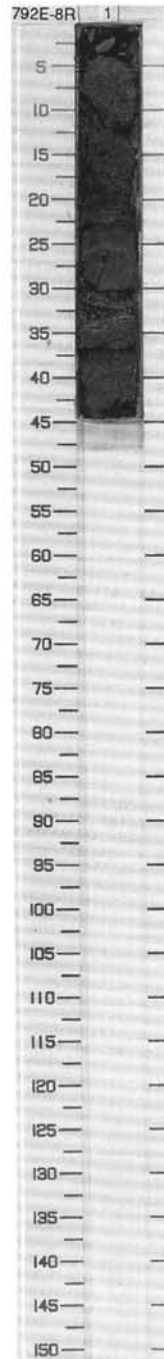


SITE 792 HOLE E CORE 7R CORED INTERVAL 193.4-203.1 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																								
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UPPER MIOCENE	B	F/G	B	R			1						<p>VITRIC SANDY MUDSTONE AND VITRIC MUDDY SANDSTONE</p> <p>Major lithologies: 56% of the core is olive gray (5Y 3/2) VITRIC SANDY MUDSTONE, and the remaining 46% is VITRIC MUDDY SANDSTONE. Slight burrowing occurs at 6-10 cm. Over the interval 30-35 cm, intense bioturbation by Chondrites has left burrows 3 mm in diameter filled with sand.</p> <p>The intervals 0-10 cm and 22-35 cm are moderately fractured, and the interval 10-22 cm consists of drilling breccia.</p> <p>SMEAR SLIDE SUMMARY & THIN SECTION (%):</p> <table border="1"> <thead> <tr> <th></th> <th>1, 1</th> <th>1, 3</th> <th>1, 20</th> </tr> </thead> <tbody> <tr> <td>M</td> <td></td> <td>D</td> <td>M</td> </tr> </tbody> </table> <p>TEXTURE:</p> <table border="1"> <thead> <tr> <th></th> <th>55</th> <th>20</th> <th>30</th> </tr> </thead> <tbody> <tr> <td>Sand</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Silt</td> <td>20</td> <td>30</td> <td>30</td> </tr> <tr> <td>Clay</td> <td>25</td> <td>50</td> <td>40</td> </tr> </tbody> </table> <p>COMPOSITION:</p> <table border="1"> <thead> <tr> <th></th> <th>3</th> <th>10</th> <th>10</th> </tr> </thead> <tbody> <tr> <td>Accessory minerals</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Bioclast</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>25</td> <td>50</td> <td>40</td> </tr> <tr> <td>Diatoms</td> <td>1</td> <td>—</td> <td>—</td> </tr> <tr> <td>Feldspar</td> <td>8</td> <td>2</td> <td>3</td> </tr> <tr> <td>Foraminifers</td> <td>2</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Glass</td> <td>43</td> <td>34</td> <td>33</td> </tr> <tr> <td>Lithic fragments</td> <td>—</td> <td>—</td> <td>10</td> </tr> <tr> <td>Micrite</td> <td>—</td> <td>—</td> <td>1</td> </tr> <tr> <td>Nannofossils</td> <td>15</td> <td>3</td> <td>3</td> </tr> <tr> <td>Pellets</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Pore Space</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Radiolarians</td> <td>1</td> <td>—</td> <td>—</td> </tr> <tr> <td>Rock fragment</td> <td>2</td> <td>—</td> <td>—</td> </tr> <tr> <td>Spicules</td> <td>—</td> <td>1</td> <td>—</td> </tr> </tbody> </table>		1, 1	1, 3	1, 20	M		D	M		55	20	30	Sand				Silt	20	30	30	Clay	25	50	40		3	10	10	Accessory minerals				Bioclast	Tr	—	—	Clay	25	50	40	Diatoms	1	—	—	Feldspar	8	2	3	Foraminifers	2	Tr	Tr	Glass	43	34	33	Lithic fragments	—	—	10	Micrite	—	—	1	Nannofossils	15	3	3	Pellets	Tr	—	—	Pore Space	Tr	—	—	Radiolarians	1	—	—	Rock fragment	2	—	—	Spicules	—	1	—
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UPPER MIOCENE	B	F/G	R/P				1				##	<p>VITRIC MUDDY SANDSTONE, VITRIC SANDSTONE AND VITRIC SANDY MUDSTONE</p> <p>Major lithologies: 30% of the core is composed of olive black (5Y 2/1), slightly burrowed VITRIC MUDDY SANDSTONE, 27% of olive black (5Y 2/1) VITRIC SANDSTONE, and 23% of VITRIC SANDY MUDSTONE.</p> <p>Minor lithology: The remaining 20% of the core (25-34 cm interval) is VITRIC SILT, which is lithified only in the dusky green (5G 3/2) middle part of the bed. The upper and lower parts of this ash bed are unlithified and dark gray (5Y 4/1) in color.</p> <p>The core is moderately fractured throughout.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>1, 20</td> <td>1, 32</td> </tr> <tr> <td></td> <td>D</td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="0"> <tr> <td>Sand</td> <td>50</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>20</td> <td>65</td> </tr> <tr> <td>Clay</td> <td>30</td> <td>30</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Accessory minerals</td> <td>10</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>30</td> <td>30</td> </tr> <tr> <td>Feldspar</td> <td>10</td> <td>1</td> </tr> <tr> <td>Foraminifers</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Glass</td> <td>40</td> <td>68</td> </tr> <tr> <td>Lithic fragments</td> <td>10</td> <td>—</td> </tr> <tr> <td>Micrite</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Nannofossils</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Opaques</td> <td>—</td> <td>1</td> </tr> <tr> <td>Pellets</td> <td>—</td> <td>Tr</td> </tr> </table>		1, 20	1, 32		D	M	Sand	50	5	Silt	20	65	Clay	30	30	Accessory minerals	10	Tr	Clay	30	30	Feldspar	10	1	Foraminifers	Tr	—	Glass	40	68	Lithic fragments	10	—	Micrite	—	Tr	Nannofossils	—	Tr	Opaques	—	1	Pellets	—	Tr
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Lithic fragments	10	—																																																							
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Nannofossils	—	Tr																																																							
Opaques	—	1																																																							
Pellets	—	Tr																																																							

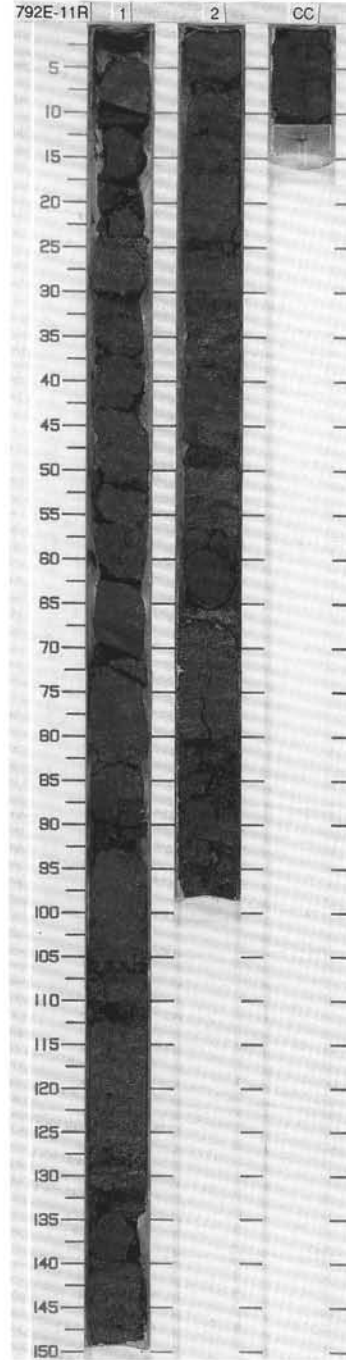


SITE 792 HOLE E CORE 9R CORED INTERVAL 212.6-222.2 mbsf

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										
UPPER MIOCENE													
B					N								
C/G		CN9			R								
R/P					N								
					R								
					N								
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SITE 792 HOLE E CORE 11R CORED INTERVAL 231.9-241.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																				
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																																														
UPPER MIOCENE	B	F/M	R/P	CN9	N	0-47.0 0-44.0 0-22.10 0-0.7	0-51.0 0-2.07 %CaCO ₃ = 5.7	1 2	0.5 1.0					<p>CRYSTAL-VITRIC SILTSTONE AND CRYSTAL-VITRIC SANDY MUDSTONE</p> <p>Major lithology: CRYSTAL-VITRIC SILTSTONE and CRYSTAL-VITRIC SANDY MUD, both olive black (5Y 2/1) in color, comprise 47% and 36% of the core, respectively. They are slightly bioturbated over several intervals.</p> <p>Minor lithologies: Greenish black (5G 2/1) and grayish black (N2) CRYSTAL-VITRIC SANDSTONE, in layers 1-10 cm thick are probably ash beds and comprise 17% of the core. Several are planar laminated.</p> <p>Section 2, 0-20 cm, is moderately fractured by drilling.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 48</td> <td>2, 62</td> <td>CC, 2</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>55</td> <td>45</td> <td>30</td> </tr> <tr> <td>Silt</td> <td>25</td> <td>55</td> <td>30</td> </tr> <tr> <td>Clay</td> <td>20</td> <td>Tr</td> <td>40</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>5</td> <td>7</td> <td>2</td> </tr> <tr> <td>Cement</td> <td>—</td> <td>3</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>20</td> <td>Tr</td> <td>40</td> </tr> <tr> <td>Feldspar</td> <td>8</td> <td>7</td> <td>6</td> </tr> <tr> <td>Foraminifers</td> <td>1</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Glass</td> <td>54</td> <td>80</td> <td>50</td> </tr> <tr> <td>Lithic fragments</td> <td>2</td> <td>3</td> <td>1</td> </tr> <tr> <td>Micrite</td> <td>Tr</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Nannofossils</td> <td>10</td> <td>—</td> <td>1</td> </tr> <tr> <td>Radiolarians</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Silicoflagellates</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Spicules</td> <td>Tr</td> <td>—</td> <td>Tr</td> </tr> </table>		1, 48	2, 62	CC, 2		D	M	M	Sand	55	45	30	Silt	25	55	30	Clay	20	Tr	40	Accessory minerals	5	7	2	Cement	—	3	—	Clay	20	Tr	40	Feldspar	8	7	6	Foraminifers	1	Tr	Tr	Glass	54	80	50	Lithic fragments	2	3	1	Micrite	Tr	—	Tr	Nannofossils	10	—	1	Radiolarians	Tr	—	—	Silicoflagellates	Tr	—	—	Spicules	Tr	—	Tr
	1, 48	2, 62	CC, 2																																																																															
	D	M	M																																																																															
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Foraminifers	1	Tr	Tr																																																																															
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Lithic fragments	2	3	1																																																																															
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Nannofossils	10	—	1																																																																															
Radiolarians	Tr	—	—																																																																															
Silicoflagellates	Tr	—	—																																																																															
Spicules	Tr	—	Tr																																																																															

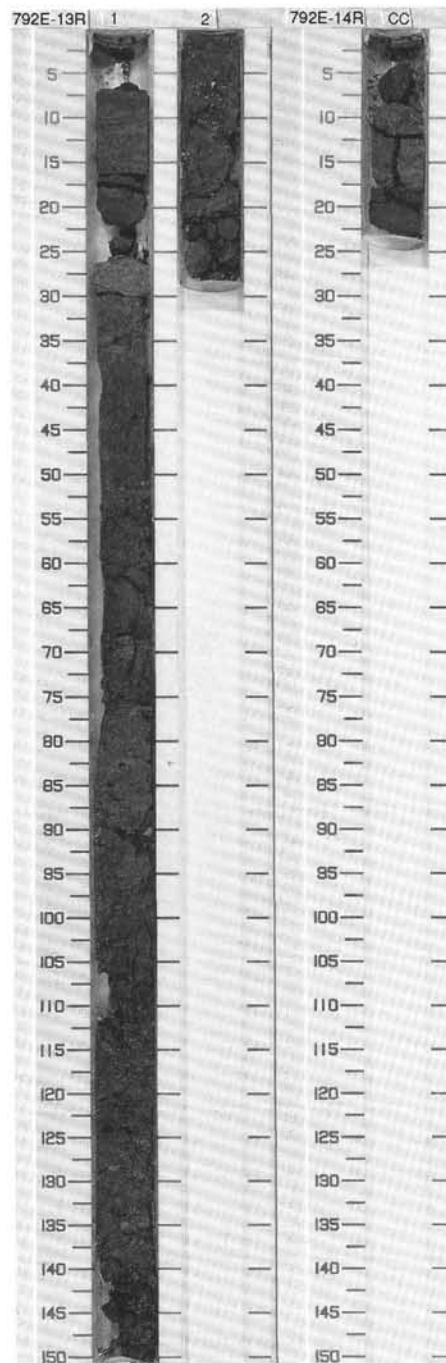


SITE 792 HOLE E CORE 13R CORED INTERVAL 251.2-260.9 mbsf

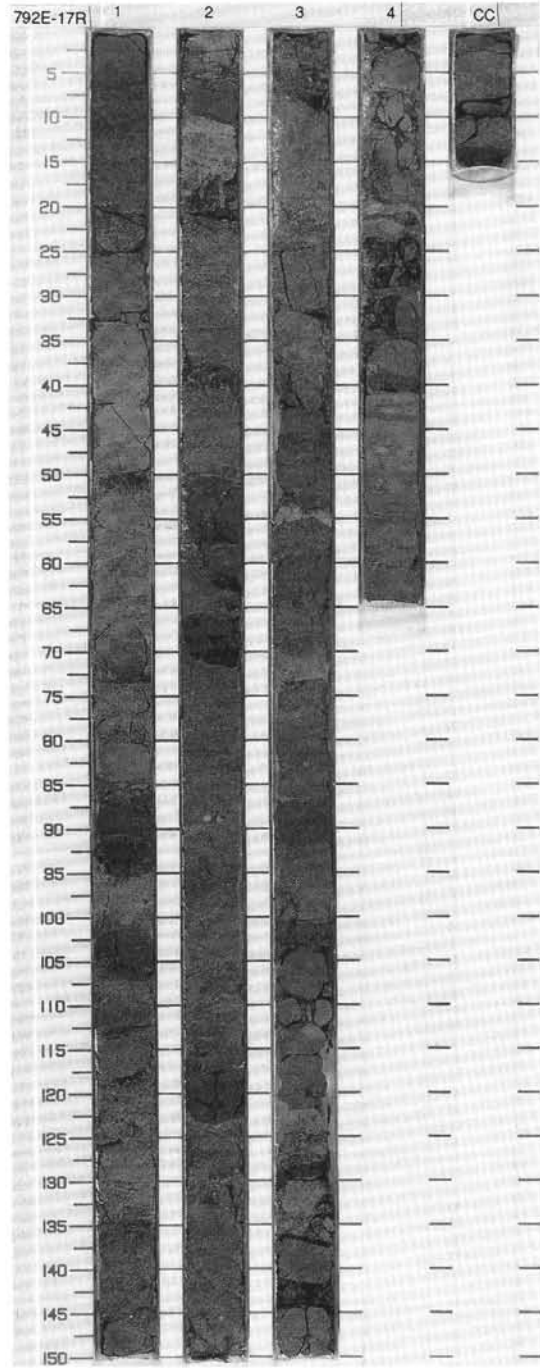
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS								
UPPER MIOCENE	R/P	R/M	R/P		R	1.91 46.0 77.4	1				*	GRANULE-TO PEBBLE-BEARING MUDDY SANDSTONE Major lithology: Most of the core is dark gray (5GY 4/1), burrowed GRANULE-TO PEBBLE-BEARING MUDDY SANDSTONE. Pumice and scoria pebbles are <1 cm in diameter. Minor lithologies: Section 1, 4-5 cm, is a remnant of the base of a bed of black fine SANDSTONE. Section 1, 18-25 cm, is greenish black (5GY 2/1) SILTY CLAYSTONE. Section 2, 21-28 cm, is a drilling breccia of greenish black (5GY 2/1) CLAYEY SILTSTONE. In general, the core is highly fractured by drilling. SMEAR SLIDE SUMMARY (%): 1, 4 M TEXTURE: Sand 80 Silt 20 COMPOSITION: Accessory minerals 10 Feldspar 15 Foraminifers Tr Glass 75 Spicules Tr
		CN9				2						

SITE 792 HOLE E CORE 14R CORED INTERVAL 260.9-270.5 mbsf

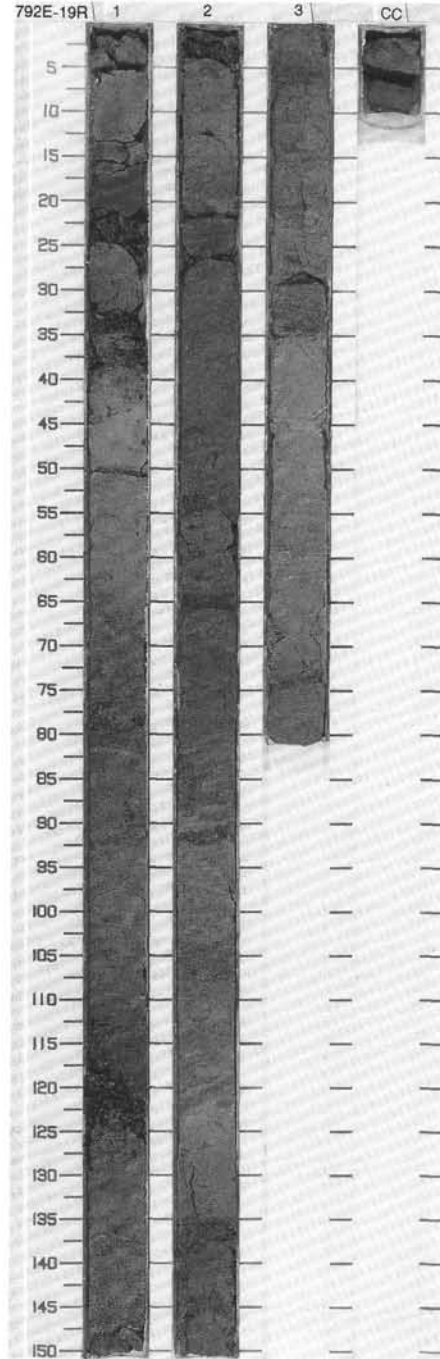
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS								
UPPER MIOCENE	B	A/M	R/P		R		CC				#	SILTY SANDSTONE AND MUDDY SANDSTONE Major lithologies: Dark gray (5GY 4/1) burrowed, laminated SILTY SANDSTONE, grading upward into dark gray (5GY 4/1) MUDDY SANDSTONE with scattered granules of basaltic scoria. THIN SECTION SUMMARY (%): CC, 19 M TEXTURE: Sand 30 Silt 30 Clay 40 COMPOSITION: Accessory minerals 3 Clay 40 Feldspar 7 Foraminifers 2 Glass 40 Micrite Tr Nannofossils 5 Radiolarians 3 Rock fragment Tr Spicules Tr
		CN9										



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																																																																									
	R/P-M	A/M CN5b	A/M CN6	A/G CN6																																																																						
	A/M CN5b	A/M CN6	A/G CN6		N	$\%CaCO_3 = 14.2$	$\%CaCO_3 = 0.4$	1	0.5					<p>NANNOFOSSIL-RICH MUDDY SANDSTONE, NANNOFOSSIL-RICH SANDY MUDSTONE AND VITRIC SILTSTONE</p> <p>Major lithologies: Most of the core consists of dark gray (5GY 4/1), burrowed NANNOFOSSIL-RICH MUDDY SANDSTONE and NANNOFOSSIL-RICH SANDY MUDSTONE, both with scattered scoria granules and sand grains. The remaining 20% of the core consists of sharp-based, locally graded and/or parallel laminated, thin beds of VITRIC SILTSTONE.</p> <p>Minor lithology: Section 4, 0-19 cm, consists of dark gray (5GY 4/1) SILTY CLAYSTONE.</p> <p>Section 1 is moderately fractured. Section 3, 30 cm, to CC is highly fractured by drilling.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1.51</td> <td>3.55</td> <td>CC. 7</td> </tr> <tr> <td></td> <td>M</td> <td>M</td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>80</td> <td>80</td> <td>80</td> </tr> <tr> <td>Silt</td> <td>20</td> <td>80</td> <td>10</td> </tr> <tr> <td>Clay</td> <td>—</td> <td>20</td> <td>10</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>5</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>—</td> <td>14</td> <td>—</td> </tr> <tr> <td>Diatoms</td> <td>—</td> <td>1</td> <td>—</td> </tr> <tr> <td>Feldspar</td> <td>15</td> <td>1</td> <td>5</td> </tr> <tr> <td>Foraminifers</td> <td>Tr</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Glass</td> <td>80</td> <td>80</td> <td>95</td> </tr> <tr> <td>Lithic fragments</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>—</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Oxide</td> <td>—</td> <td>1</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>—</td> <td>1</td> <td>—</td> </tr> </table>		1.51	3.55	CC. 7		M	M	M	Sand	80	80	80	Silt	20	80	10	Clay	—	20	10	Accessory minerals	5	—	Tr	Clay	—	14	—	Diatoms	—	1	—	Feldspar	15	1	5	Foraminifers	Tr	1	Tr	Glass	80	80	95	Lithic fragments	Tr	—	—	Nannofossils	—	1	Tr	Oxide	—	1	—	Quartz	—	1	—
	1.51	3.55	CC. 7																																																																							
	M	M	M																																																																							
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Quartz	—	1	—																																																																							
C/M	<i>D. petterssoni</i>					$\%CaCO_3 = 14.2$	$\%CaCO_3 = 0.4$	2	1.0																																																																	
						$\%CaCO_3 = 14.7$	$\%CaCO_3 = 0.4$	3	1.0																																																																	
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						$\%CaCO_3 = 14.7$	$\%CaCO_3 = 0.4$	CC	0.0																																																																	



TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS							
MIDDLE MIOCENE											
B											
	C/M	A/M	CN5b	C/M							
	C/M		<i>D. petterssoni</i>								
					N/R						
					%CaCO ₃ = 4.4						
					%CaCO ₃ = 1.91						
					%CaCO ₃ = 1.73						
					%CaCO ₃ = 5.0						
					%CaCO ₃ = 20.7						
					%SiO ₂ = 52.0						
					%Al ₂ O ₃ = 1.88						
					%Fe ₂ O ₃ = 1.91						
					%CaCO ₃ = 0.8						



SANDY MUDSTONE AND NANNOFOSSIL-RICH MUDDY SANDSTONE

Major lithologies:
Most of the core consists of dark gray (5GY 4/1) and grayish green (5GY 6/1), strongly burrowed, SANDY MUDSTONE and NANNOFOSSIL-RICH MUDDY SANDSTONE both with scattered granules and sand grains of scoria.

Minor lithologies:
Section 1, 8-25 cm, is olive black (5Y 2/1) VITRIC SILTY CLAYSTONE. Section 1, 45-51 cm, is a graded bed of parallel laminated VITRIC SANDSTONE to VITRIC SILTSTONE. Section 1, 115-125 cm, is olive black(5Y 2/1) VITRIC CLAYEY SILTSTONE. Section 3, 28-29 cm, is a remnant of largely unrecovered grayish black (N2) VITRIC SANDSTONE. All these minor lithologies are basaltic ash beds.

Short intervals in this core are highly fractured. Otherwise, the core is essentially undisturbed by drilling.

SMEAR SLIDE SUMMARY (%):

	1.47
M	

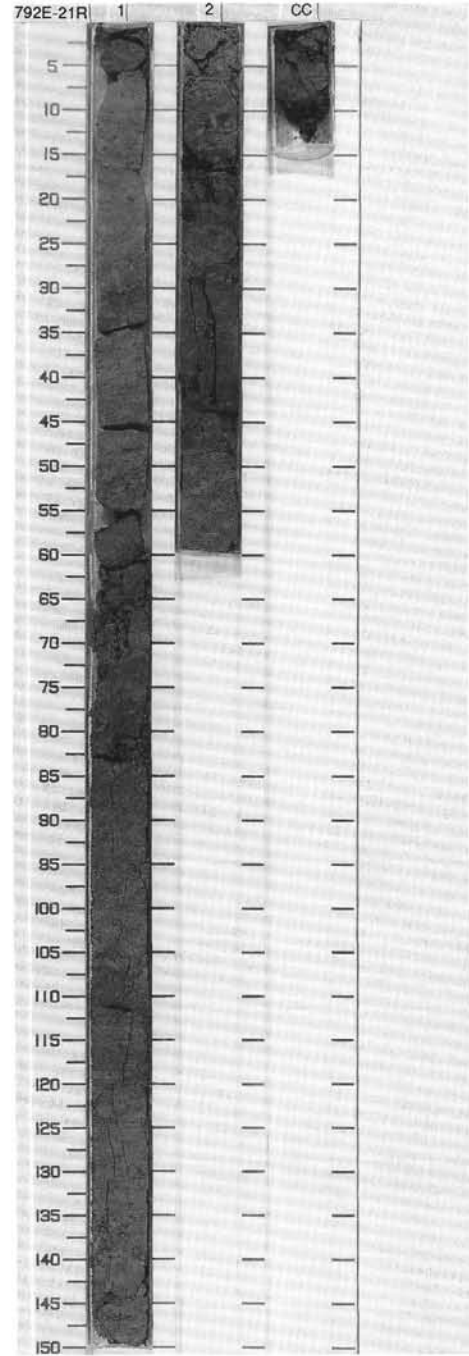
TEXTURE:

Sand	20
Silt	60
Clay	20

COMPOSITION:

Foraminifers	5
Glass	50
Micrite	15
Nannofossils	30
Spicules	Tr

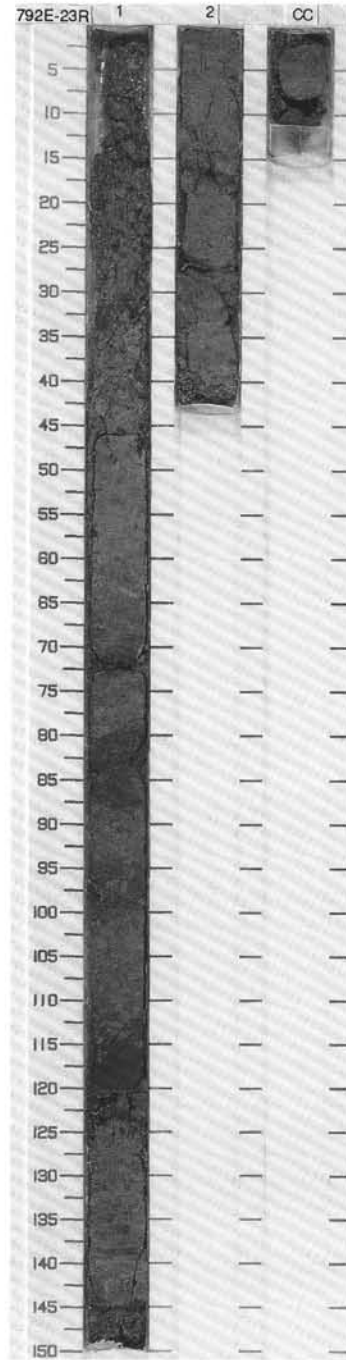
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																																							
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																																																																																																	
MIDDLE MIOCENE					R	9-62.0 1.95 2-21.7	8-60.0 1.93 8-8.0		0.5 1.0					<p>NANNOFOSSIL-RICH VITRIC SILTY CLAYSTONE</p> <p>Major lithology: 98% of the core consists of dark gray (5Y 4/1) NANNOFOSSIL-RICH VITRIC SILTY CLAYSTONE. It is slightly burrowed in Section 1, 0-110 cm, and heavily burrowed below that level to the base of Section 2. Zoophycos burrows occur in Section 2, 13-18 cm.</p> <p>Minor lithology: Ash beds of dark gray (5GY 4/1) VITRIC-CRYSTAL SILTY CLAYSTONE and brownish black (5YR 2/1) VITRIC SILTSTONE and VITRIC SANDSTONE, in beds 0.5 to 5 cm thick, together comprise 2% of the core.</p> <p>The entire core is moderately fractured except for the CC, which is highly fractured.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 32</td> <td>1, 70</td> <td>1, 125</td> <td>2, 15</td> <td>2, 42</td> <td>2, 52</td> </tr> <tr> <td></td> <td>M</td> <td>M</td> <td>D</td> <td>M</td> <td>M</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>Tr</td> <td>15</td> <td>Tr</td> <td>20</td> <td>35</td> <td>15</td> </tr> <tr> <td>Silt</td> <td>25</td> <td>75</td> <td>35</td> <td>70</td> <td>65</td> <td>25</td> </tr> <tr> <td>Clay</td> <td>75</td> <td>10</td> <td>65</td> <td>10</td> <td>—</td> <td>60</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>—</td> <td>1</td> <td>1</td> <td>5</td> <td>3</td> <td>2</td> </tr> <tr> <td>Clay</td> <td>75</td> <td>10</td> <td>59</td> <td>8</td> <td>—</td> <td>53</td> </tr> <tr> <td>Feldspar</td> <td>5</td> <td>5</td> <td>3</td> <td>10</td> <td>4</td> <td>2</td> </tr> <tr> <td>Foraminifers</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>1</td> </tr> <tr> <td>Glass</td> <td>12</td> <td>76</td> <td>15</td> <td>75</td> <td>86</td> <td>25</td> </tr> <tr> <td>Lithic fragments</td> <td>1</td> <td>3</td> <td>2</td> <td>Tr</td> <td>7</td> <td>Tr</td> </tr> <tr> <td>Micrite</td> <td>—</td> <td>3</td> <td>Tr</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>5</td> <td>1</td> <td>15</td> <td>2</td> <td>Tr</td> <td>15</td> </tr> <tr> <td>Opaques</td> <td>2</td> <td>Tr</td> <td>1</td> <td>—</td> <td>—</td> <td>2</td> </tr> <tr> <td>Pellets</td> <td>—</td> <td>1</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Radiolarians</td> <td>—</td> <td>—</td> <td>2</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Spicules</td> <td>—</td> <td>—</td> <td>2</td> <td>—</td> <td>—</td> <td>—</td> </tr> </table>		1, 32	1, 70	1, 125	2, 15	2, 42	2, 52		M	M	D	M	M	D	Sand	Tr	15	Tr	20	35	15	Silt	25	75	35	70	65	25	Clay	75	10	65	10	—	60	Accessory minerals	—	1	1	5	3	2	Clay	75	10	59	8	—	53	Feldspar	5	5	3	10	4	2	Foraminifers	—	—	—	—	—	1	Glass	12	76	15	75	86	25	Lithic fragments	1	3	2	Tr	7	Tr	Micrite	—	3	Tr	—	—	—	Nannofossils	5	1	15	2	Tr	15	Opaques	2	Tr	1	—	—	2	Pellets	—	1	—	—	—	—	Radiolarians	—	—	2	—	—	—	Spicules	—	—	2	—	—	—
	1, 32	1, 70	1, 125	2, 15	2, 42	2, 52																																																																																																																															
	M	M	D	M	M	D																																																																																																																															
Sand	Tr	15	Tr	20	35	15																																																																																																																															
Silt	25	75	35	70	65	25																																																																																																																															
Clay	75	10	65	10	—	60																																																																																																																															
Accessory minerals	—	1	1	5	3	2																																																																																																																															
Clay	75	10	59	8	—	53																																																																																																																															
Feldspar	5	5	3	10	4	2																																																																																																																															
Foraminifers	—	—	—	—	—	1																																																																																																																															
Glass	12	76	15	75	86	25																																																																																																																															
Lithic fragments	1	3	2	Tr	7	Tr																																																																																																																															
Micrite	—	3	Tr	—	—	—																																																																																																																															
Nannofossils	5	1	15	2	Tr	15																																																																																																																															
Opaques	2	Tr	1	—	—	2																																																																																																																															
Pellets	—	1	—	—	—	—																																																																																																																															
Radiolarians	—	—	2	—	—	—																																																																																																																															
Spicules	—	—	2	—	—	—																																																																																																																															



SITE 792 HOLE E CORE 22R CORED INTERVAL 337.9-347.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS DIATOMS									
MIDDLE MIOCENE												
C/M				N	0-5.0 0-7.0 0-6.1			0.5 1.0				
A/G	C/M			R/N	5.0-9.0 7.0-11.0 6.1-11.7							
F/P	A/G CN5a				9.0-13.0 11.0-15.0 11.7-15.7							
	F/P	<i>D. petterssoni</i>			13.0-17.0 15.0-19.0 15.7-19.7							
					17.0-21.0 19.0-23.0 19.7-23.7							
					21.0-25.0 23.0-27.0 23.7-27.7							
					25.0-29.0 27.0-31.0 27.7-31.7							
					29.0-33.0 31.0-35.0 31.7-35.7							
					33.0-37.0 35.0-39.0 35.7-39.7							
					37.0-41.0 39.0-43.0 39.7-43.7							
					41.0-45.0 43.0-47.0 43.7-47.7							
					45.0-49.0 47.0-51.0 47.7-51.7							
					49.0-53.0 51.0-55.0 51.7-55.7							
					53.0-57.0 55.0-59.0 55.7-59.7							
					57.0-61.0 59.0-63.0 59.7-63.7							
					61.0-65.0 63.0-67.0 63.7-67.7							
					65.0-69.0 67.0-71.0 67.7-71.7							
					69.0-73.0 71.0-75.0 71.7-75.7							
					73.0-77.0 75.0-79.0 75.7-79.7							
					77.0-81.0 79.0-83.0 79.7-83.7							
					81.0-85.0 83.0-87.0 83.7-87.7							
					85.0-89.0 87.0-91.0 87.7-91.7							
					89.0-93.0 91.0-95.0 91.7-95.7							
					93.0-97.0 95.0-99.0 95.7-99.7							
					97.0-101.0 99.0-103.0 99.7-103.7							
					101.0-105.0 103.0-107.0 103.7-107.7							
					105.0-109.0 107.0-111.0 107.7-111.7							
					109.0-113.0 111.0-115.0 111.7-115.7							
					113.0-117.0 115.0-119.0 115.7-119.7							
					117.0-121.0 119.0-123.0 119.7-123.7							
					121.0-125.0 123.0-127.0 123.7-127.7							
					125.0-129.0 127.0-131.0 127.7-131.7							
					129.0-133.0 131.0-135.0 131.7-135.7							
					133.0-137.0 135.0-139.0 135.7-139.7							
					137.0-141.0 139.0-143.0 139.7-143.7							
					141.0-145.0 143.0-147.0 143.7-147.7							
					145.0-149.0 147.0-151.0 147.7-151.7							
					149.0-153.0 151.0-155.0 151.7-155.7							
					153.0-157.0 155.0-159.0 155.7-159.7							
					157.0-161.0 159.0-163.0 159.7-163.7							
					161.0-165.0 163.0-167.0 163.7-167.7							
					165.0-169.0 167.0-171.0 167.7-171.7							
					169.0-173.0 171.0-175.0 171.7-175.7							
					173.0-177.0 175.0-179.0 175.7-179.7							
					177.0-181.0 179.0-183.0 179.7-183.7							
					181.0-185.0 183.0-187.0 183.7-187.7							
					185.0-189.0 187.0-191.0 187.7-191.7							
					189.0-193.0 191.0-195.0 191.7-195.7							
					193.0-197.0 195.0-199.0 195.7-199.7							
					197.0-201.0 199.0-203.0 199.7-203.7							
					201.0-205.0 203.0-207.0 203.7-207.7							
					205.0-209.0 207.0-211.0 207.7-211.7							
					209.0-213.0 211.0-215.0 211.7-215.7							
					213.0-217.0 215.0-219.0 215.7-219.7							
					217.0-221.0 219.0-223.0 219.7-223.7							
					221.0-225.0 223.0-227.0 223.7-227.7							
					225.0-229.0 227.0-231.0 227.7-231.7							
					229.0-233.0 231.0-235.0 231.7-235.7							
					233.0-237.0 235.0-239.0 235.7-239.7							
					237.0-241.0 239.0-243.0 239.7-243.7							
					241.0-245.0 243.0-247.0 243.7-247.7							
					245.0-249.0 247.0-251.0 247.7-251.7							
					249.0-253.0 251.0-255.0 251.7-255.7							
					253.0-257.0 255.0-259.0 255.7-259.7							
					257.0-261.0 259.0-263.0 259.7-263.7							
					261.0-265.0 263.0-267.0 263.7-267.7							
					265.0-269.0 267.0-271.0 267.7-271.7							
					269.0-273.0 271.0-275.0 271.7-275.7							
					273.0-277.0 275.0-279.0 275.7-279.7							
					277.0-281.0 279.0-283.0 279.7-283.7							
					281.0-285.0 283.0-287.0 283.7-287.7							
					285.0-289.0 287.0-291.0 287.7-291.7							
					289.0-293.0 291.0-295.0 291.7-295.7							
					293.0-297.0 295.0-299.0 295.7-299.7							
					297.0-301.0 299.0-303.0 299.7-303.7							
					301.0-305.0 303.0-307.0 303.7-307.7							
					305.0-309.0 307.0-311.0 307.7-311.7							
					309.0-313.0 311.0-315.0 311.7-315.7							
					313.0-317.0 315.0-319.0 315.7-319.7							
					317.0-321.0 319.0-323.0 319.7-323.7							
					321.0-325.0 323.0-327.0 323.7-327.7							
					325.0-329.0 327.0-331.0 327.7-331.7							
					329.0-333.0 331.0-335.0 331.7-335.7							
					333.0-337.0 335.0-339.0 335.7-339.7							
					337.0-341.0 339.0-343.0 339.7-343.7							
					341.0-345.0 343.0-347.0 343.7-347.7							
					345.0-349.0 347.0-351.0 347.7-351.7							
					349.0-353.0 351.0-355.0 351.7-355.7							
					353.0-357.0 355.0-359.0 355.7-359.7							
					357.0-361.0 359.0-363.0 359.7-363.7							
					361.0-365.0 363.0-367.0 363.7-367.7							
					365.0-369.0 367.0-371.0 367.7-371.7							
					369.0-373.0 371.0-375.0 371.7-375.7							
					373.0-377.0 375.0-379.0 375.7-379.7							
					377.0-381.0 379.0-383.0 379.7-383.7							
					381.0-385.0 383.0-387.0 383.7-387.7							
					385.0-389.0 387.0-391.0 387.7-391.7							
					389.0-393.0 391.0-395.0 391.7-395.7							
					393.0-397.0 395.0-399.0 395.7-399.7							
					397.0-401.0 399.0-403.0 399.7-403.7							
					401.0-405.0 403.0-407.0 403.7-407.7							
					405.0-409.0 407.0-411.0 407.7-411.7							
					409.0-413.0 411.0-415.0 411.7-415.7							
					413.0-417.0 415.0-419.0 415.7-419.7							
					417.0-421.0 419.0-423.0 419.7-423.7							
					421.0-425.0 423.0-427.0 423.7-427.7							
					425.0-429.0 427.0-431.0 427.7-431.7							
					429.0-433.0 431.0-435.0 431.7-435.7							
					433.0-437.0 435.0-439.0 435.7-439.7							
					437.0-441.0 439.0-443.0 439.7-443.7							

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										
MIDDLE MIOCENE	N10	CNS a		N	0.5-1.0	%CaCO ₃ = 1.82 = 1.40	1	0.5 1.0	[Lithology symbols]	[Drilling symbols]	[Structures symbols]		<p>NANNOFOSSIL-RICH VITRIC SILTY CLAYSTONE</p> <p>Major lithology: Dark gray (5Y 4/1), heavily to slightly bioturbated NANNOFOSSIL RICH SILTY CLAYSTONE comprises 93% of the core. A Scolites burrow is located in Section 1, 110 cm.</p> <p>Minor lithology: The remaining 7% of the core is composed of five brownish black (5YR 2/1) VITRIC SANDSTONE ash beds 1-5 cm thick.</p> <p>Section 1, 0-30 cm, is drilling breccia. The rest of the core is moderately fractured.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p>1, 56 D</p> <p>TEXTURE:</p> <p>Sand 20 Silt 20 Clay 60</p> <p>COMPOSITION:</p> <p>Accessory minerals 1 Clay 60 Feldspar 2 Foraminifers 1 Glass 17 Glauconite Tr Lithic fragments Tr Nannofossils 18 Radiolarians 1 Silicoflagellates Tr Spicules Tr</p>
R/M	A/M	F/P					2						
							CC						

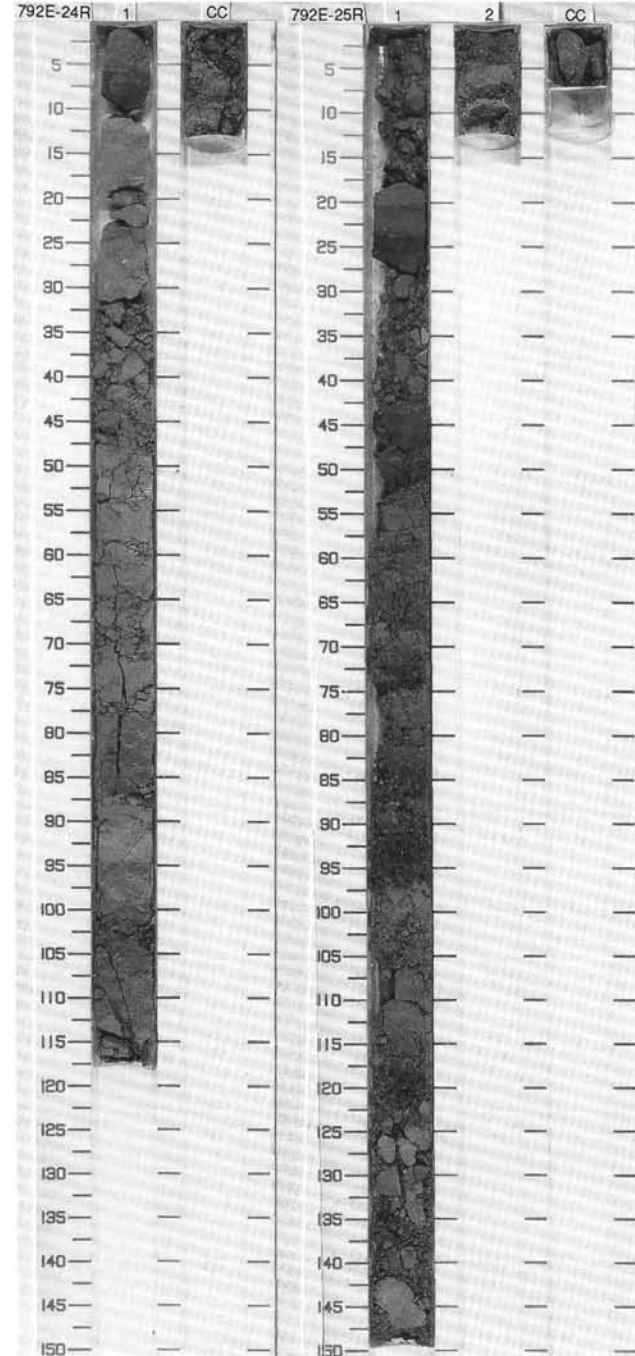


SITE 792 HOLE E CORE 24R CORED INTERVAL 357.3-367.0 mbsf

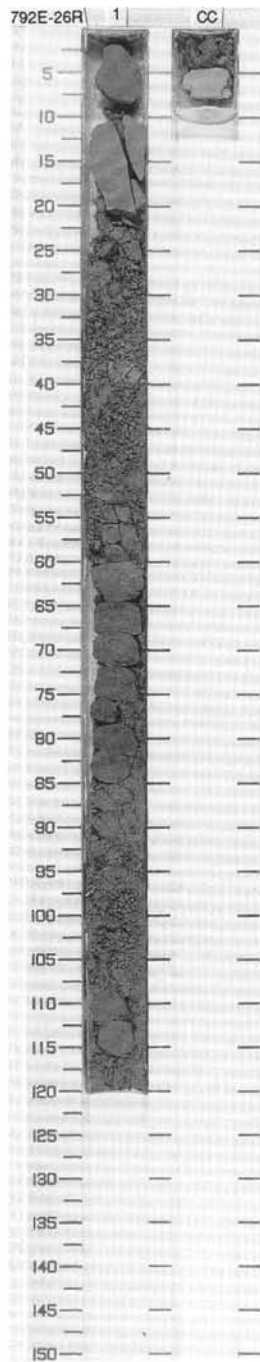
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																							
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																	
LOWER MIOCENE	F/M	A/M	R/P		N	g-72.0 KCaCO ₃ =1.3.5		1	0.5 1.0					<p>NANNOFOSSIL-RICH CLAYSTONE</p> <p>Major lithology: Gray (5Y 5/1) NANNOFOSSIL-RICH CLAYSTONE, slightly burrowed in Section 1, 18-43 cm, 80-90 cm and 108-113 cm, and heavily burrowed from 93-110 cm. In Section 1 there are sub-vertical fractures at 26-28 cm, and a microfault at 113-117 cm</p> <p>Minor lithology: In Section 1, 5-10 cm, there is a brownish black (5YR 2/1) VITRIC SANDSTONE, overlain by a 5 cm thick NANNOFOSSIL-RICH VITRIC SILTY CLAYSTONE that appears to have resulted from the mixing by burrowers of part of the sandstone with the overlying claystone.</p> <p>The core is moderately to highly fractured.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1,55</td> <td>1,108</td> </tr> <tr> <td></td> <td>0</td> <td>0</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>—</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>25</td> <td>10</td> </tr> <tr> <td>Clay</td> <td>75</td> <td>85</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>1</td> <td>2</td> </tr> <tr> <td>Clay</td> <td>66</td> <td>80</td> </tr> <tr> <td>Feldspar</td> <td>1</td> <td>2</td> </tr> <tr> <td>Foraminifers</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Glass</td> <td>5</td> <td>5</td> </tr> <tr> <td>Micrite</td> <td>1</td> <td>1</td> </tr> <tr> <td>Nannofossils</td> <td>25</td> <td>10</td> </tr> <tr> <td>Silicoflagellates</td> <td>Tr</td> <td>—</td> </tr> </table>		1,55	1,108		0	0	Sand	—	5	Silt	25	10	Clay	75	85	Accessory minerals	1	2	Clay	66	80	Feldspar	1	2	Foraminifers	1	Tr	Glass	5	5	Micrite	1	1	Nannofossils	25	10	Silicoflagellates	Tr	—
	1,55	1,108																																																			
	0	0																																																			
Sand	—	5																																																			
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Glass	5	5																																																			
Micrite	1	1																																																			
Nannofossils	25	10																																																			
Silicoflagellates	Tr	—																																																			

SITE 792 HOLE E CORE 25R CORED INTERVAL 367.0-376.6 mbsf

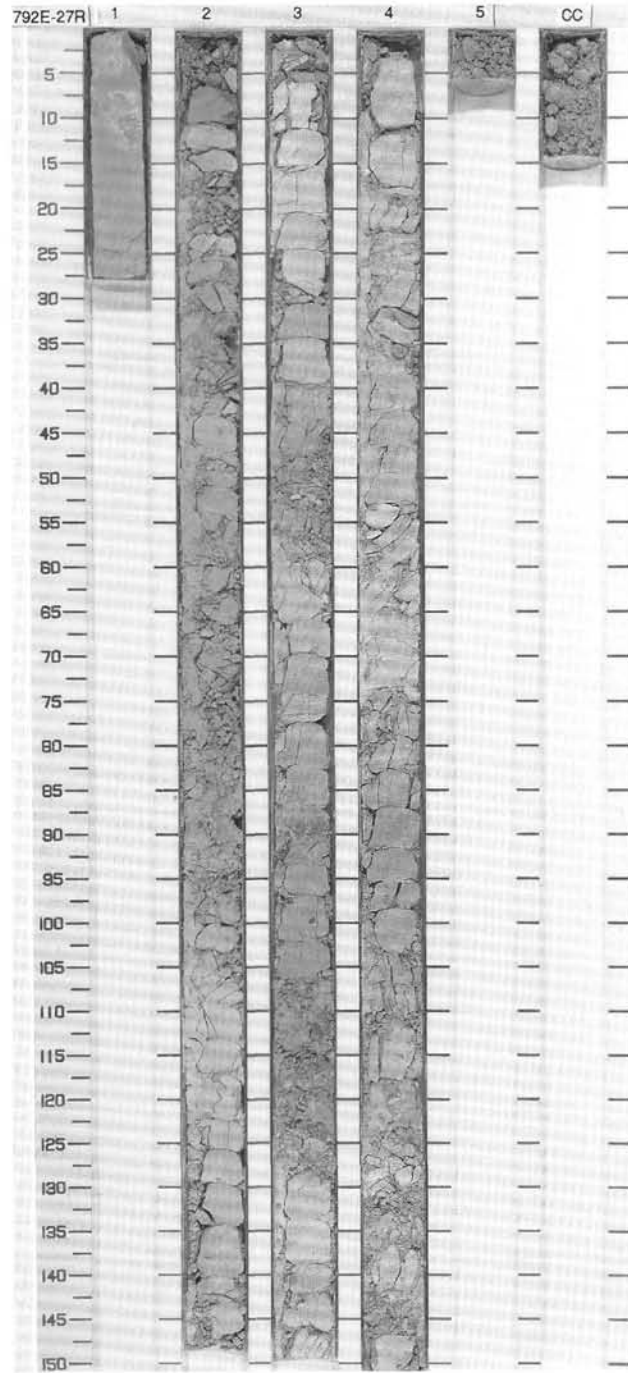
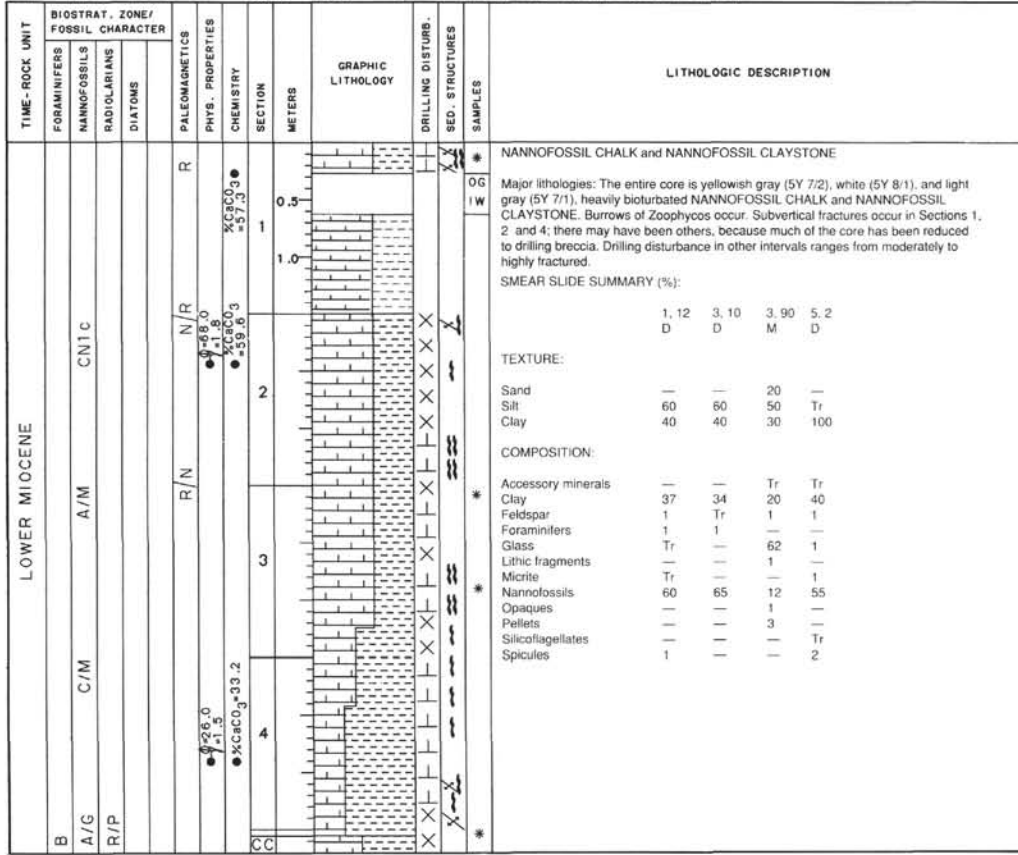
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																		
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																												
LOWER MIOCENE	B	C/M	R/P		N	g-72.0 KCaCO ₃ =1.5.8 KCaCO ₃ =1.4.0		1	0.5 1.0					<p>NANNOFOSSIL-RICH CLAYSTONE</p> <p>Major lithology: 86% of the core is dark gray (5GY 4/1), dark green (5GY4/3), olive black (5Y 2/1) and light greenish gray (5GY 7/1) NANNOFOSSIL-RICH CLAYSTON subvertical fractures occur in a rotated drilling biscuit in Section 1, 143-150 cm.</p> <p>Minor lithology: Five layers of olive black (5Y 2/1) CRYSTAL-VITRIC SANDY SILTSTONE, 3-13 cm thick, constitute 19% of the core. One layer, in Section 1, 25-28 cm, is planar-laminated.</p> <p>The core consists of drilling breccia.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1,26</td> </tr> <tr> <td></td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>25</td> </tr> <tr> <td>Silt</td> <td>75</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>2</td> </tr> <tr> <td>Cement</td> <td>Tr</td> </tr> <tr> <td>Feldspar</td> <td>5</td> </tr> <tr> <td>Glass</td> <td>93</td> </tr> <tr> <td>Lithic fragments</td> <td>Tr</td> </tr> </table>		1,26		M	Sand	25	Silt	75	Accessory minerals	2	Cement	Tr	Feldspar	5	Glass	93	Lithic fragments	Tr
	1,26																															
	M																															
Sand	25																															
Silt	75																															
Accessory minerals	2																															
Cement	Tr																															
Feldspar	5																															
Glass	93																															
Lithic fragments	Tr																															



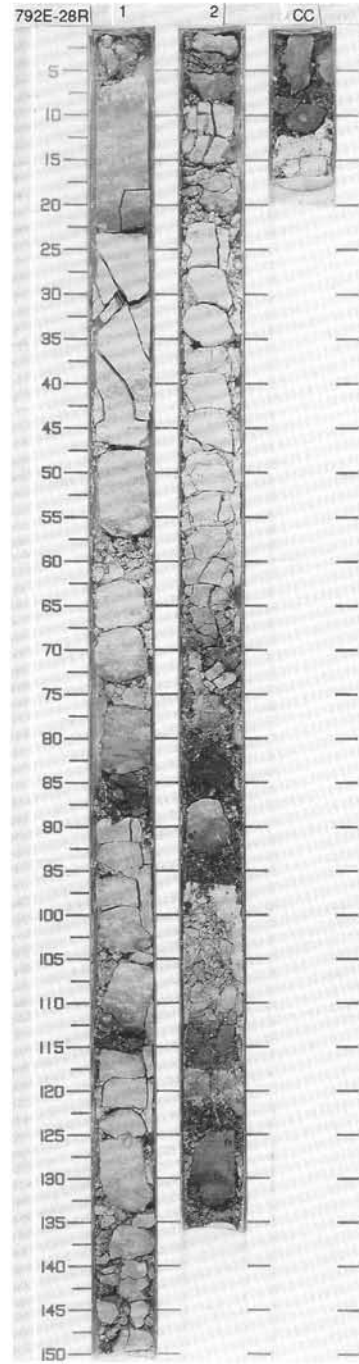
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																						
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																
LOWER MIOCENE	N5 - N6	CN1 c	A/G		R	0-0.9 -1.9.2	XCACCO XCACCO +21.5	1	0.5 1.0					<p>NANNOFOSSIL-RICH CLAYSTONE</p> <p>Major lithology: The uppermost 93% of the core is grayish green (5GY 5/1) and dark gray (5GY 4/1) NANNOFOSSIL-RICH CLAYSTONE. The only visible structure is a water-escape feature in Section 1, 5 cm.</p> <p>Minor lithology: The lowermost 7% of the core consists of a 4 cm-thick layer of light gray (5Y 7/1) NANNOFOSSIL CLAYSTONE in the CC.</p> <p>Portions of the core have been moderately or highly fractured; the rest is drilling breccia.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr><td>CC, 6</td></tr> <tr><td>D</td></tr> </table> <p>TEXTURE:</p> <table border="0"> <tr><td>Sand</td><td>2</td></tr> <tr><td>Silt</td><td>20</td></tr> <tr><td>Clay</td><td>78</td></tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr><td>Accessory minerals</td><td>1</td></tr> <tr><td>Clay</td><td>52</td></tr> <tr><td>Feldspar</td><td>1</td></tr> <tr><td>Glass</td><td>5</td></tr> <tr><td>Micrite</td><td>Tr</td></tr> <tr><td>Nannofossils</td><td>40</td></tr> <tr><td>Spicules</td><td>1</td></tr> </table>	CC, 6	D	Sand	2	Silt	20	Clay	78	Accessory minerals	1	Clay	52	Feldspar	1	Glass	5	Micrite	Tr	Nannofossils	40	Spicules	1
CC, 6																																				
D																																				
Sand	2																																			
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Accessory minerals	1																																			
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Feldspar	1																																			
Glass	5																																			
Micrite	Tr																																			
Nannofossils	40																																			
Spicules	1																																			



SITE 792 HOLE E CORE 27R CORED INTERVAL 386.3-396.0 mbsf

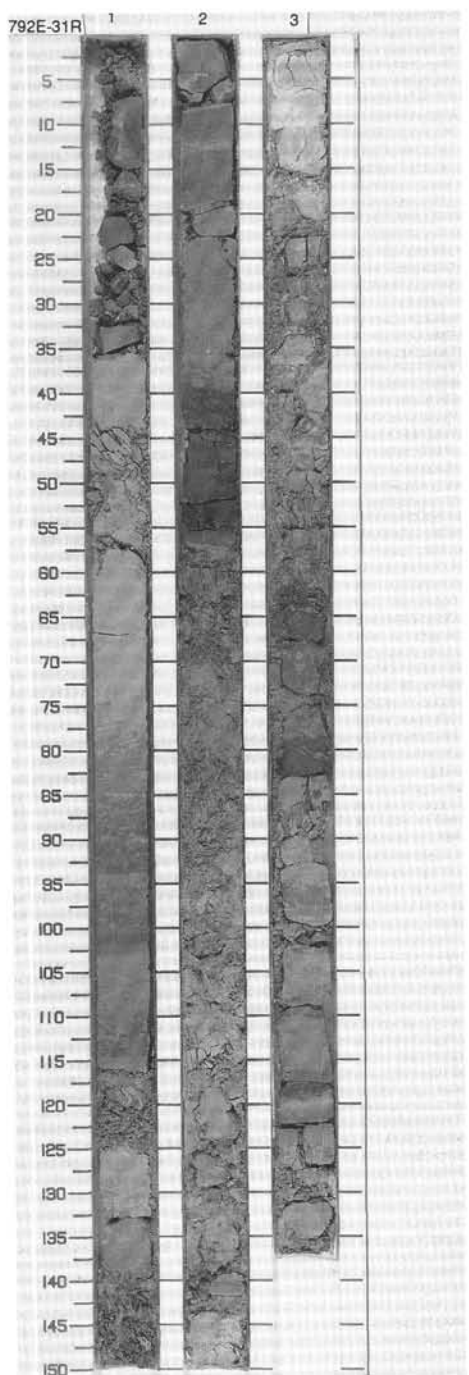


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																				
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAATOMS																																														
	F/M - R N5 - N6																																																	
	C/M																																																	
UPPER OLIGOCENE - LOWER MIOCENE	P22/N3	R/M	P22/N3	F/M - R N5 - N6	N/R	0-59.0 -2.04 -67.0 -1.82	%CaCO ₃ -46.0	1	0.5 1.0					<p>NANNOFOSSIL CLAYSTONE AND NANNOFOSSIL CHALK</p> <p>Major lithologies: Dark gray (5GY 4/1), heavily bioturbated NANNOFOSSIL CLAYSTONE comprises 53% of the core, in four layers 12-49 cm thick, and as 2-6 cm layers alternating with less burrowed grayish green (5GY 5/1) NANNOFOSSIL CHALK layers of similar thickness that constitute 28% of the core.</p> <p>Minor lithologies: The remaining 19% of the core is composed of about equal proportions of discrete, 2.7 cm thick beds, of dark gray (5GY 4/1) CRYSTAL-VITRIC SILTSTONE and olive black (5Y 2/1), very fine-grained CRYSTAL-VITRIC SANDSTONE.</p> <p>A subvertical fracture occurs in Section 1, 25-30 cm; more may have been obliterated by drilling, which has moderately fractured to highly fragmented the core.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 25</td> <td>1, 111</td> </tr> <tr> <td></td> <td>M</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Silt</td> <td>50</td> <td>20</td> </tr> <tr> <td>Clay</td> <td>50</td> <td>80</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>43</td> <td>76</td> </tr> <tr> <td>Glass</td> <td>1</td> <td>2</td> </tr> <tr> <td>Micrite</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>55</td> <td>17</td> </tr> <tr> <td>Radiolarians</td> <td>1</td> <td>—</td> </tr> <tr> <td>Zeolite</td> <td>—</td> <td>5</td> </tr> </table>		1, 25	1, 111		M	D	Sand	—	Tr	Silt	50	20	Clay	50	80	Accessory minerals	Tr	—	Clay	43	76	Glass	1	2	Micrite	Tr	—	Nannofossils	55	17	Radiolarians	1	—	Zeolite	—	5
	1, 25	1, 111																																																
	M	D																																																
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Zeolite	—	5																																																
	R/M	P22/N3	F/M - R N5 - N6	N/R	0-59.0 -2.04 -67.0 -1.82	%CaCO ₃ -46.0	2																																											
	A/M	A/G	A/G	N/R	0-59.0 -2.04 -67.0 -1.82	%CaCO ₃ -46.0																																												
	B																																																	



SITE 792 HOLE E CORE 31R CORED INTERVAL 424.9-434.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
UPPER OLILOCENE	A/G	F/P	CP19D		N	$\%CaCO_3 = 13.9$ $\%CaCO_3 = 1.88$ $\%CaCO_3 = 20.6$ $\%CaCO_3 = 0.92$ $\%CaCO_3 = 4.1$ $\%CaCO_3 = 0.48$	0.5 1 2 3					<p>NANNOFOSSIL CLAYSTONE, NANNOFOSSIL-RICH CLAYSTONE, VITRIC SILTSTONE AND VITRIC SANDSTONE</p> <p>Major lithologies: Most of the core consists of gray (5Y 6/1) and grayish green (5GY 6/1), strongly burrowed NANNOFOSSIL CLAYSTONE and NANNOFOSSIL-RICH CLAYSTONE with widespread dewatering veinlets. Interbedded with these lithologies are thin beds of medium dark gray (N4) VITRIC SILTSTONE and VITRIC SANDSTONE. Most of these beds are graded and some contain parallel and/or ripple lamination.</p> <p>Minor lithologies: Section 2, 133-142 cm, is a graded, parallel-laminated bed of gray (5YR 6/1) VITRIC SILT (ash). Section 3, 0-22 cm, is burrowed, yellowish gray (5Y 8/1) NANNOFOSSIL CHALK.</p>	

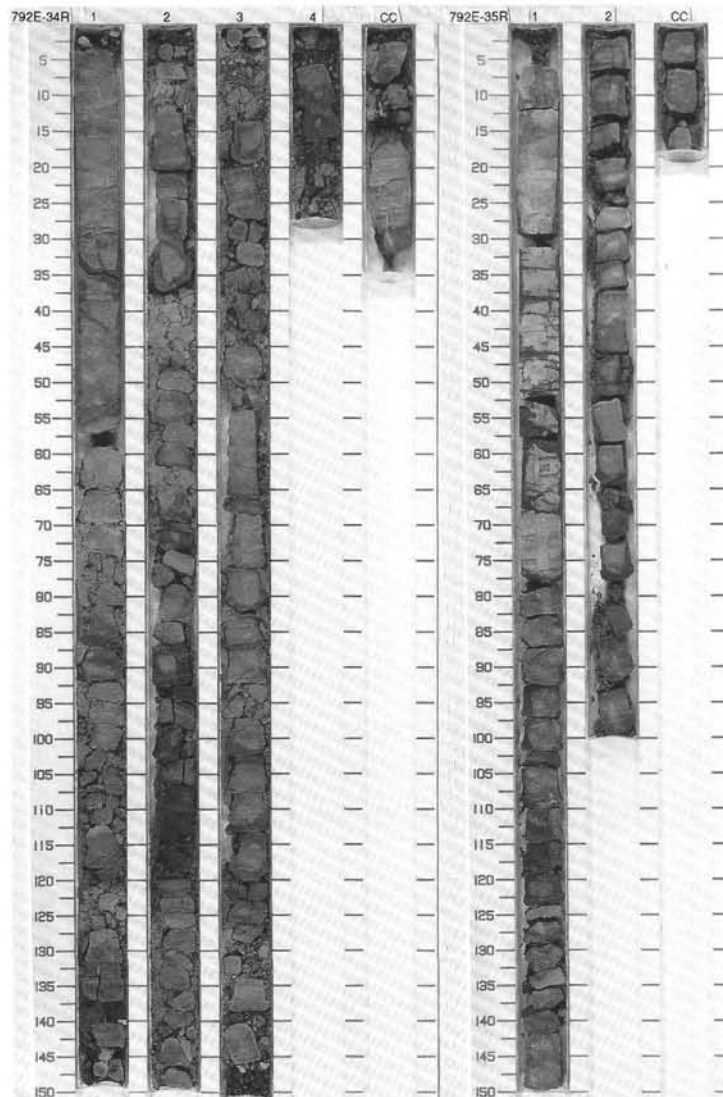


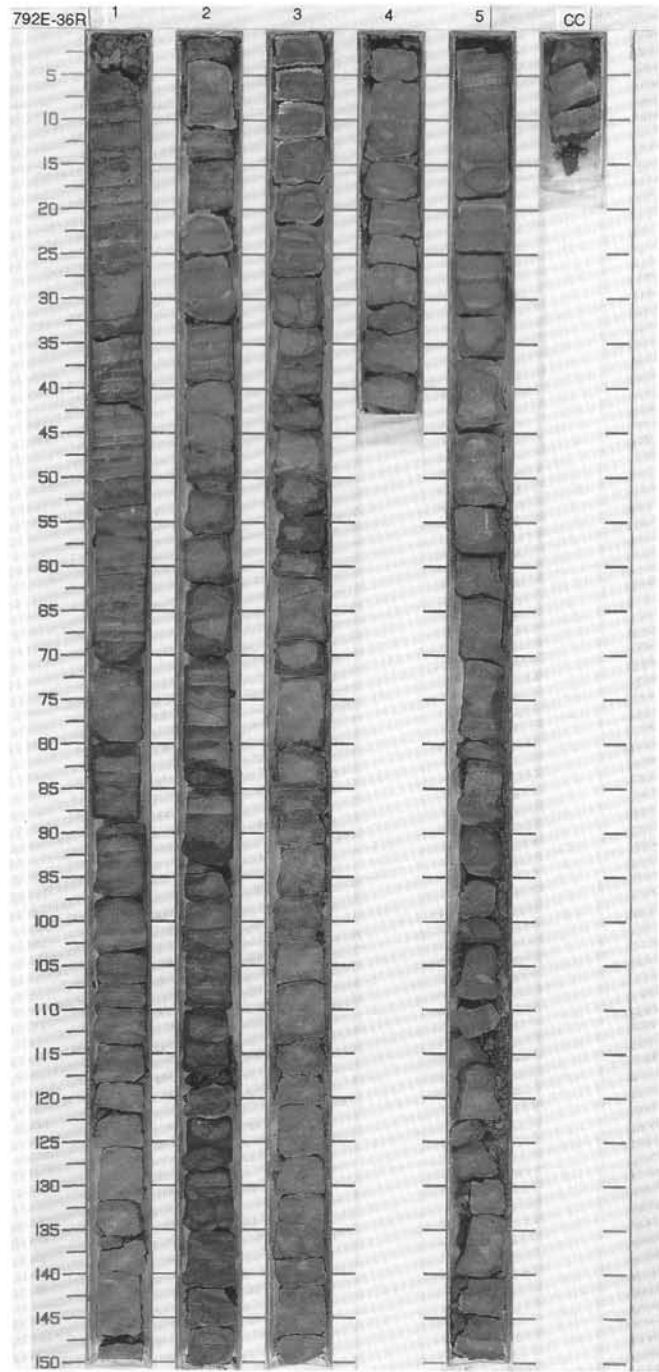
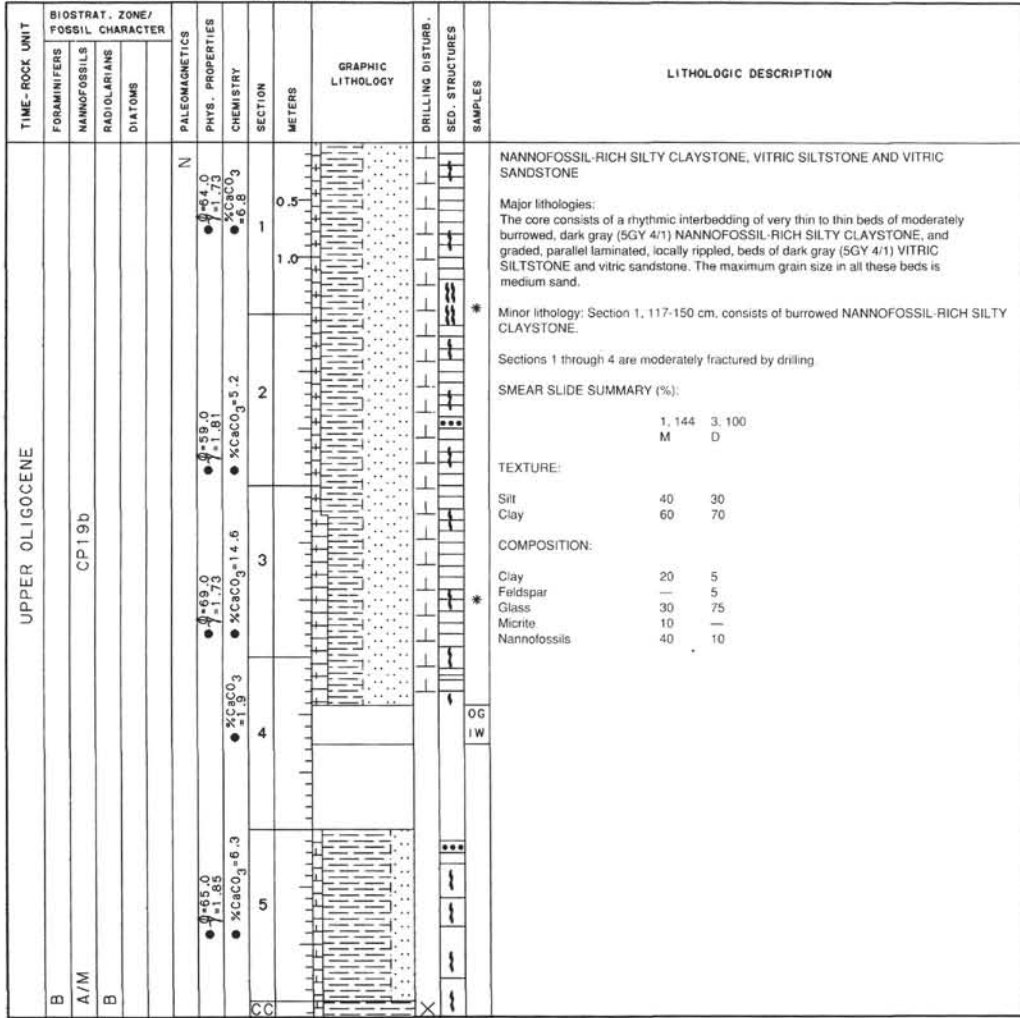
SITE 792 HOLE E CORE 34R CORED INTERVAL 453.9-463.5 mbsf

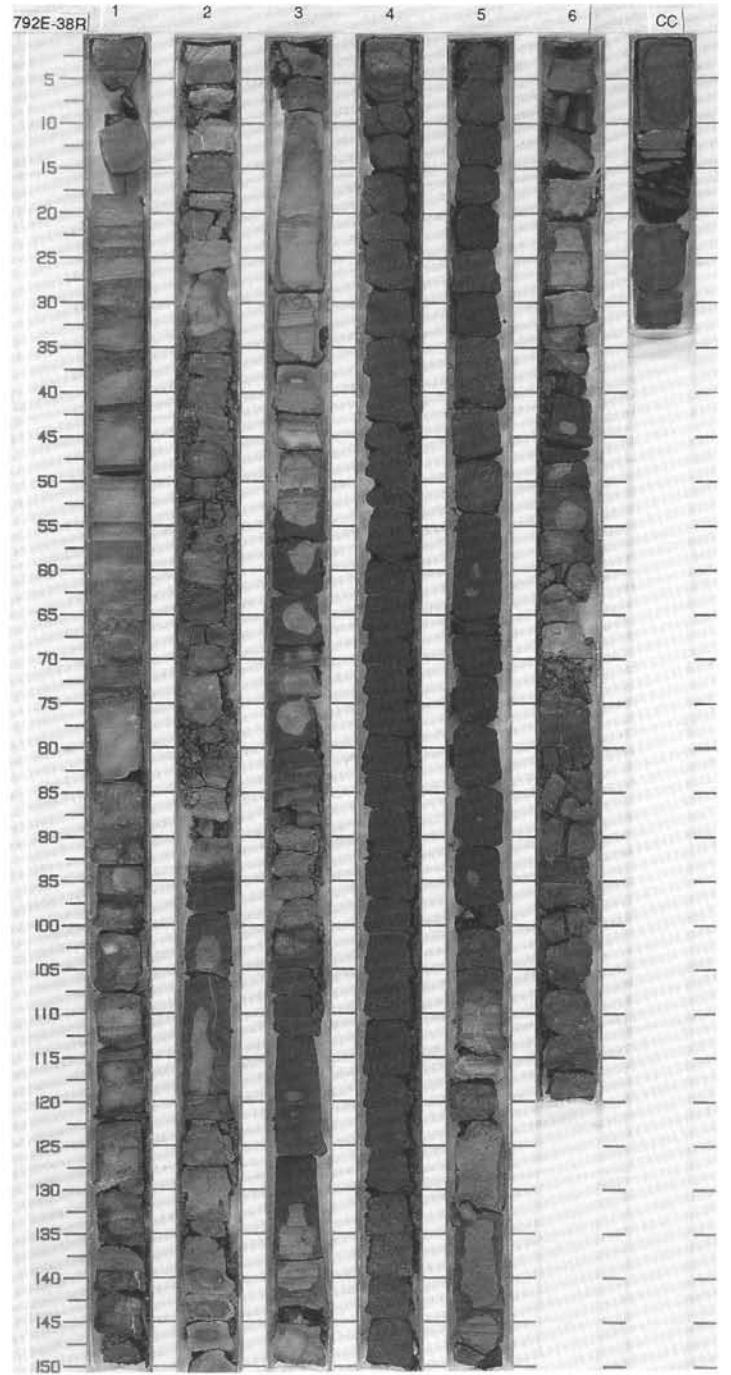
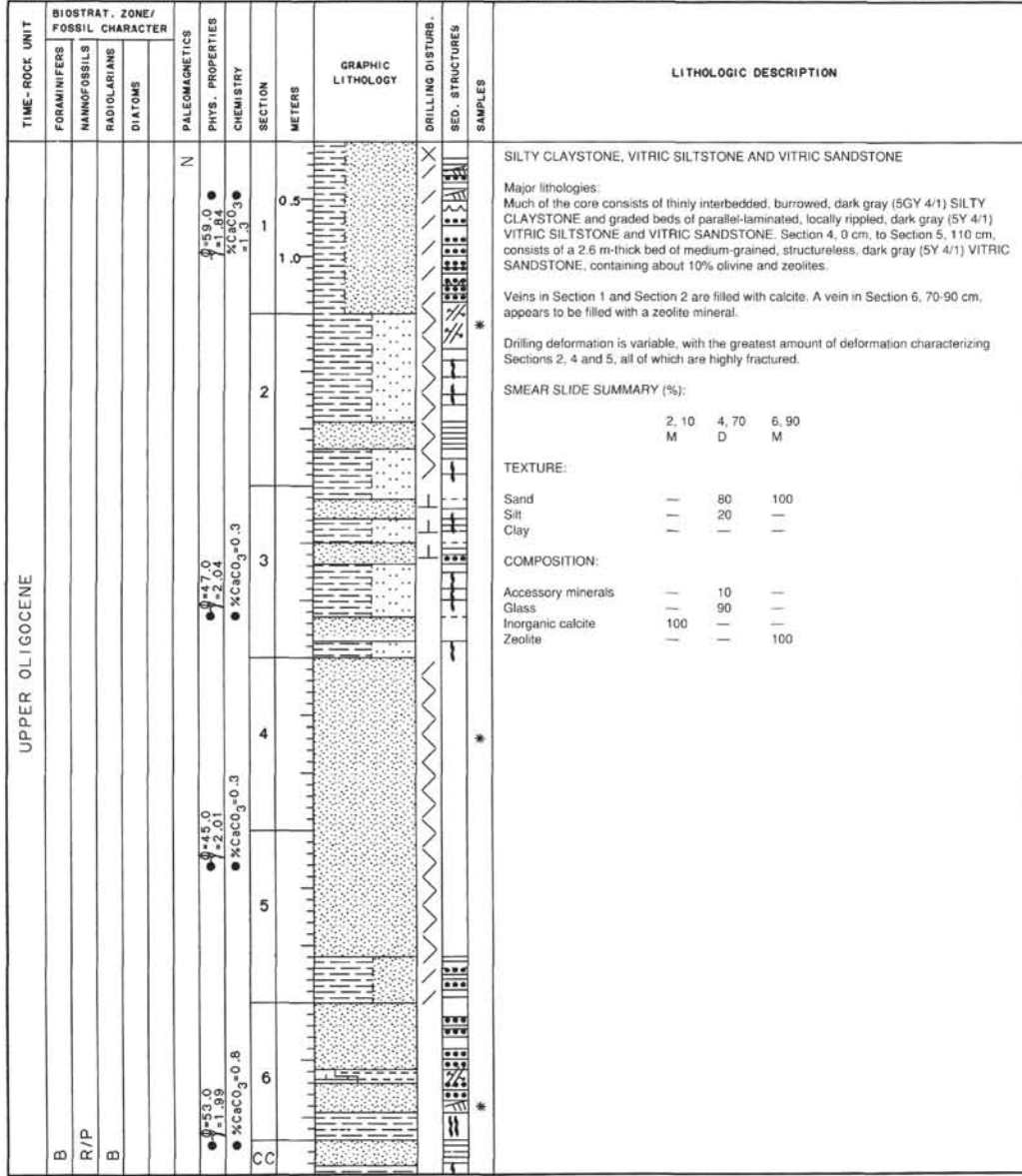
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION						
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS															
UPPER OLIGOCENE					N	0-39.0 1-1.8 2-5	%CaCO ₃		0.5 1.0				CLAYEY SILTSTONE, VITRIC SILTSTONE, VITRIC SANDSTONE AND NANNOFOSSIL-RICH CLAYSTONE Major lithologies: Most of the core consists of interbedded thin beds of dark gray (5GY 4/1) CLAYEY SILTSTONE and greenish black (5GY 2/1) VITRIC SILTSTONE and VITRIC SANDSTONE. About 10% of the core consists of burrowed, dark gray (5GY 4/1), NANNOFOSSIL-RICH CLAYSTONE. Zoophycos burrows are common. In the core catcher, nannofossil-rich claystone is injected by sandstone dikes. Bedding in Section 1 dips at about 5° Minor lithologies: Section 1, 122-128 cm, is NANNOFOSSIL SILTY CLAYSTONE. Section 2, 37-50 cm, is NANNOFOSSIL SILTSTONE. Most of the core is either highly fractured, or consists of drilling breccia. SMEAR SLIDE SUMMARY (%): <table border="1" style="margin-left: 20px;"> <tr><td></td><td>2, 40</td><td>CC, 16</td></tr> <tr><td>M</td><td></td><td>D</td></tr> </table> TEXTURE: Sand — 90 Silt 60 10 Clay 40 — COMPOSITION: Accessory minerals 6 Tr Feldspar — Tr Foraminifers 5 — Glass 44 95 Micrite 5 — Nannofossils 40 — Silicoflagellates — 5		2, 40	CC, 16	M		D
	2, 40	CC, 16																	
M		D																	
	C/G	R/P			N	0-66.0 1-1.8 8-8.3	%CaCO ₃												
					3	0-68.0 1-1.8 9-9.7	%CaCO ₃												
					4														
					CC														

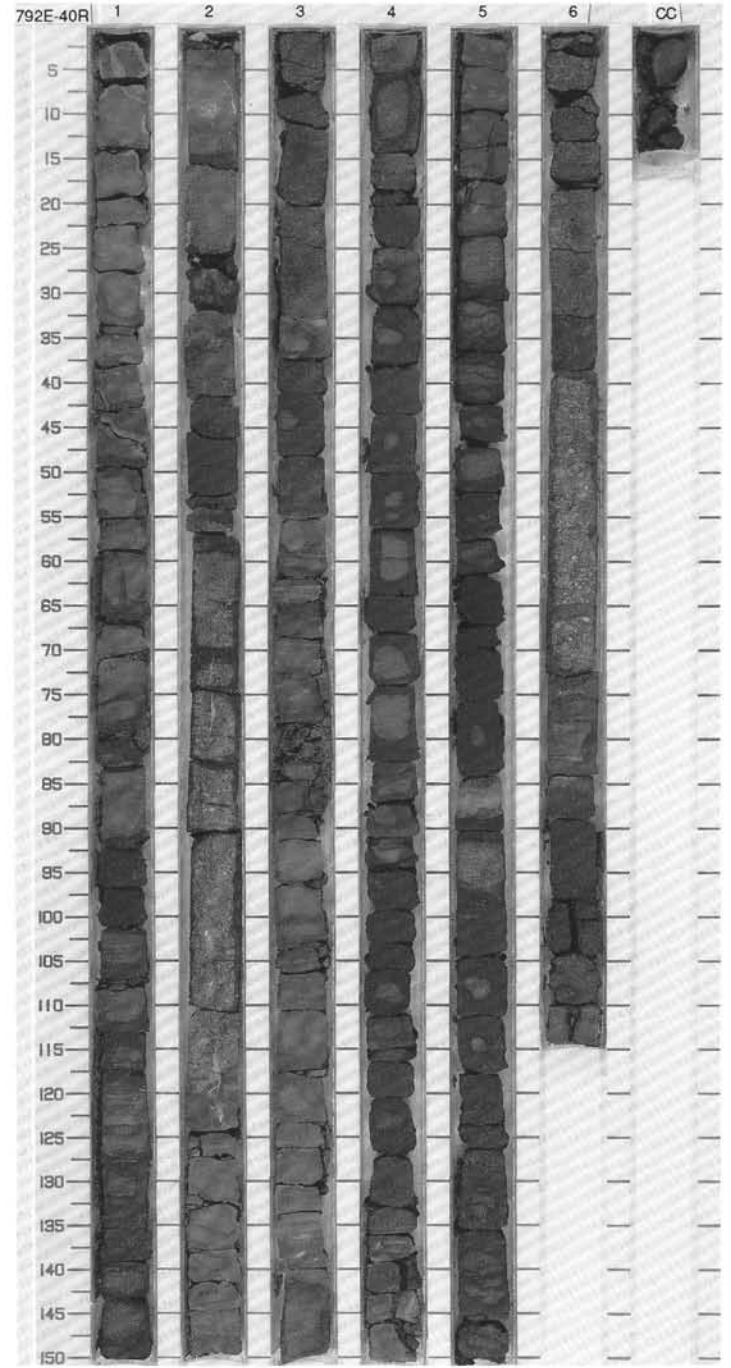
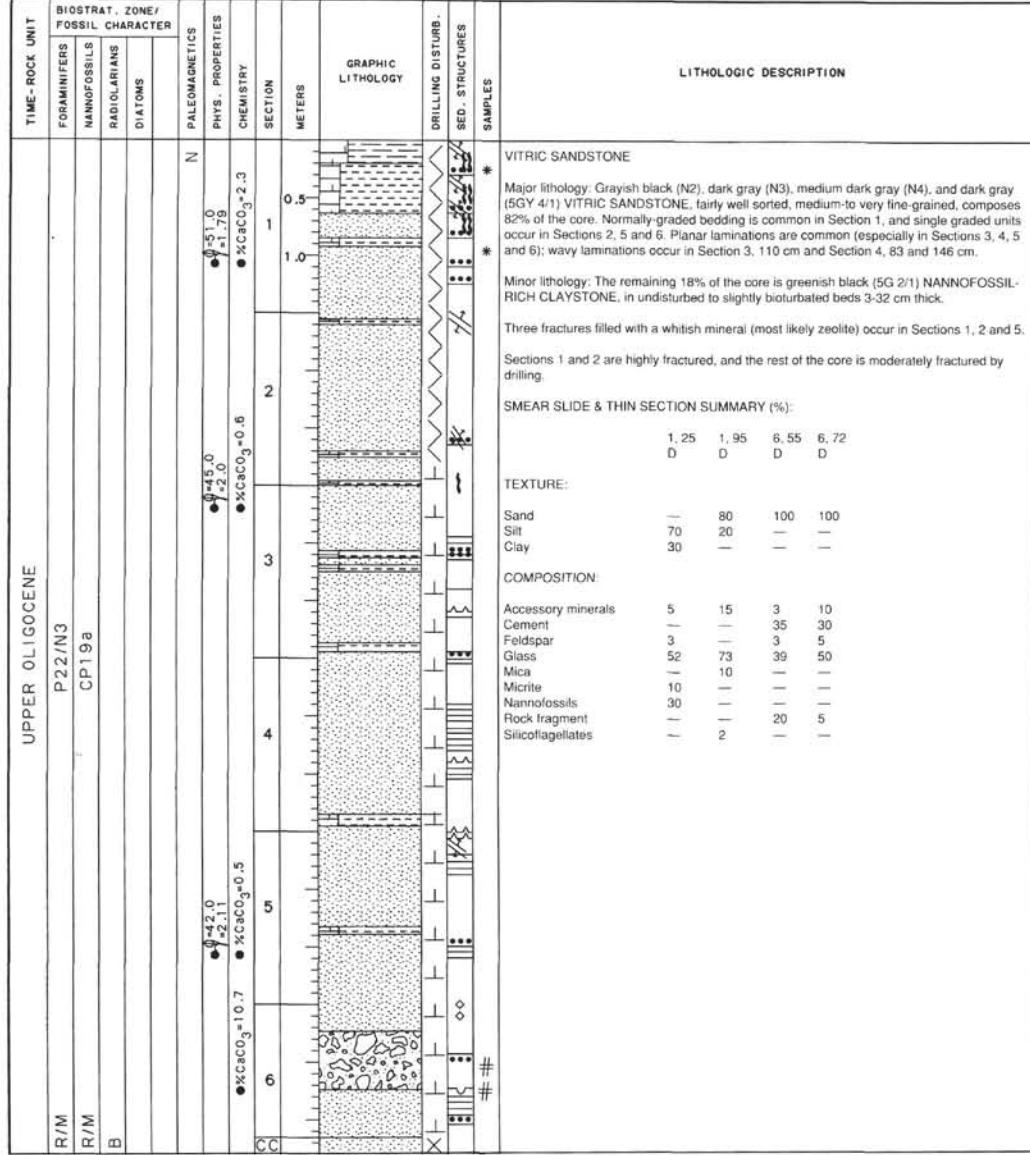
SITE 792 HOLE E CORE 35R CORED INTERVAL 463.5-473.2 mbsf

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									
UPPER OLIGOCENE					R	0-15.0 1-1.93	%CaCO ₃		0.5 1.0				CLAYSTONE AND VITRIC SANDSTONE Major lithologies: Overall there are roughly equal amounts of burrowed, dark gray (5GY 4/1) CLAYSTONE and beds of graded, dark gray (N3) and medium dark gray (N4) VITRIC SANDSTONE, some with parallel lamination. The carbonate content of the claystone is just below the limit necessary for designation as a nannofossil-rich lithology. All of Section 1, and Section 2, 0-20 cm, contain a zone of sandstone injection as a long vertical dike. Locally, beds are offset on opposite sides of the dike due to bedding-parallel injection. The core is highly fractured by drilling.
	C/G	R/P				0-67.0 1-1.75 8-8.3	%CaCO ₃						
					2								
					CC								

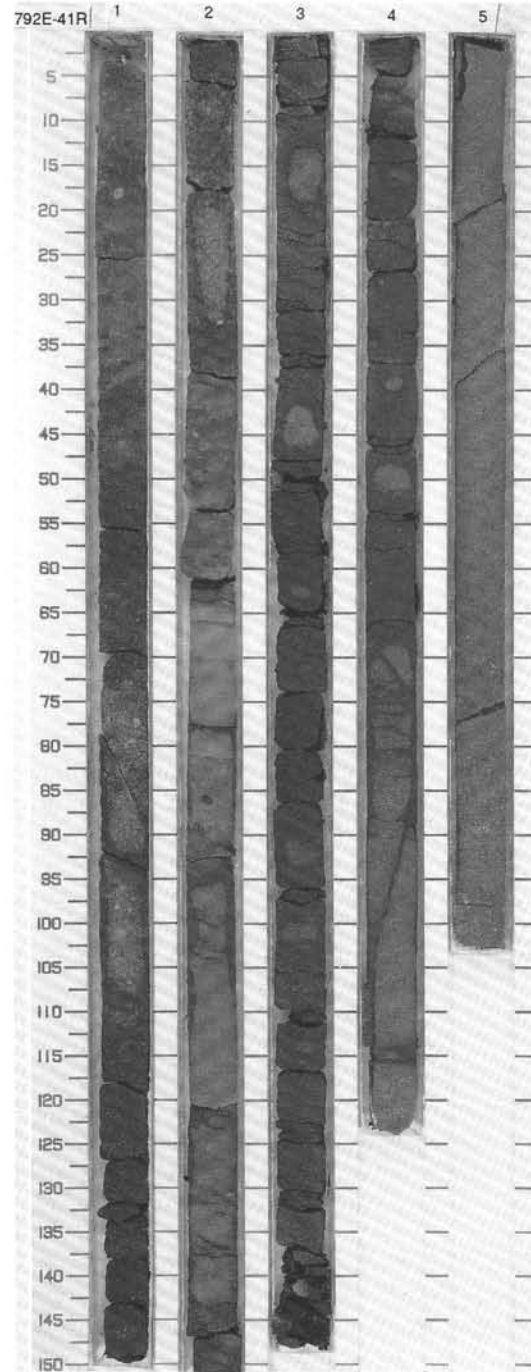
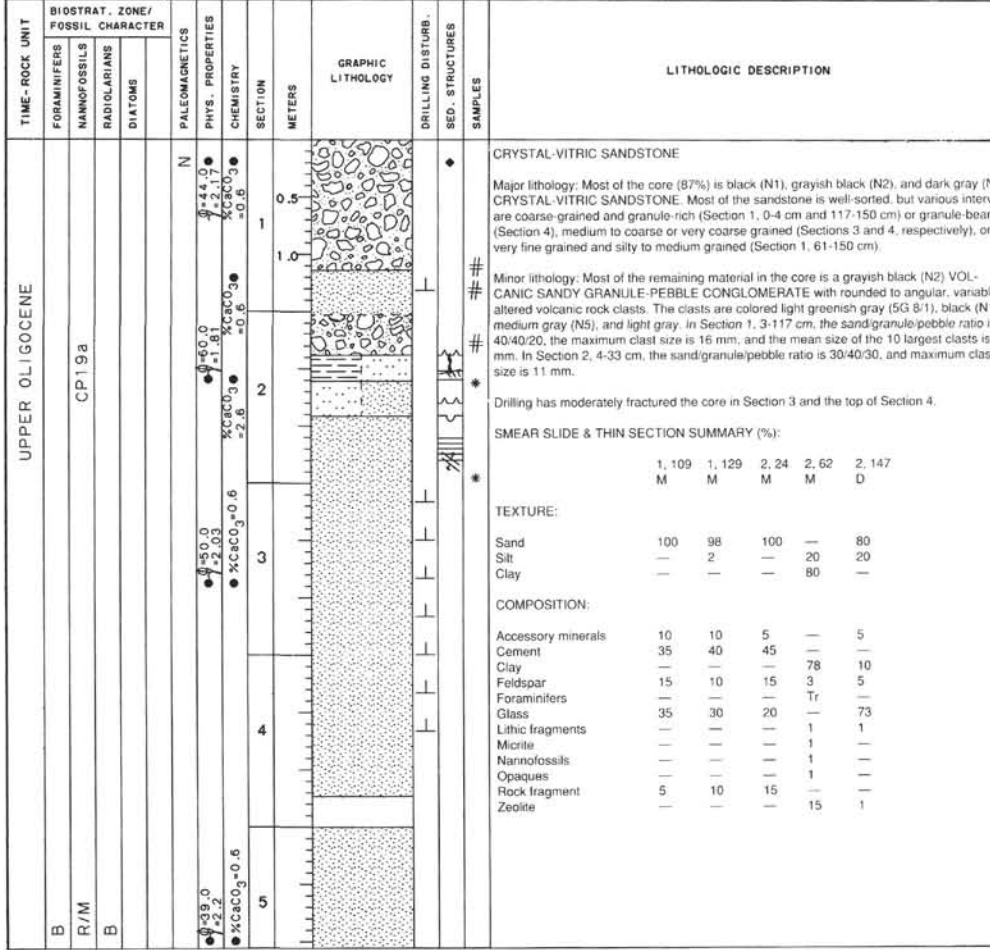


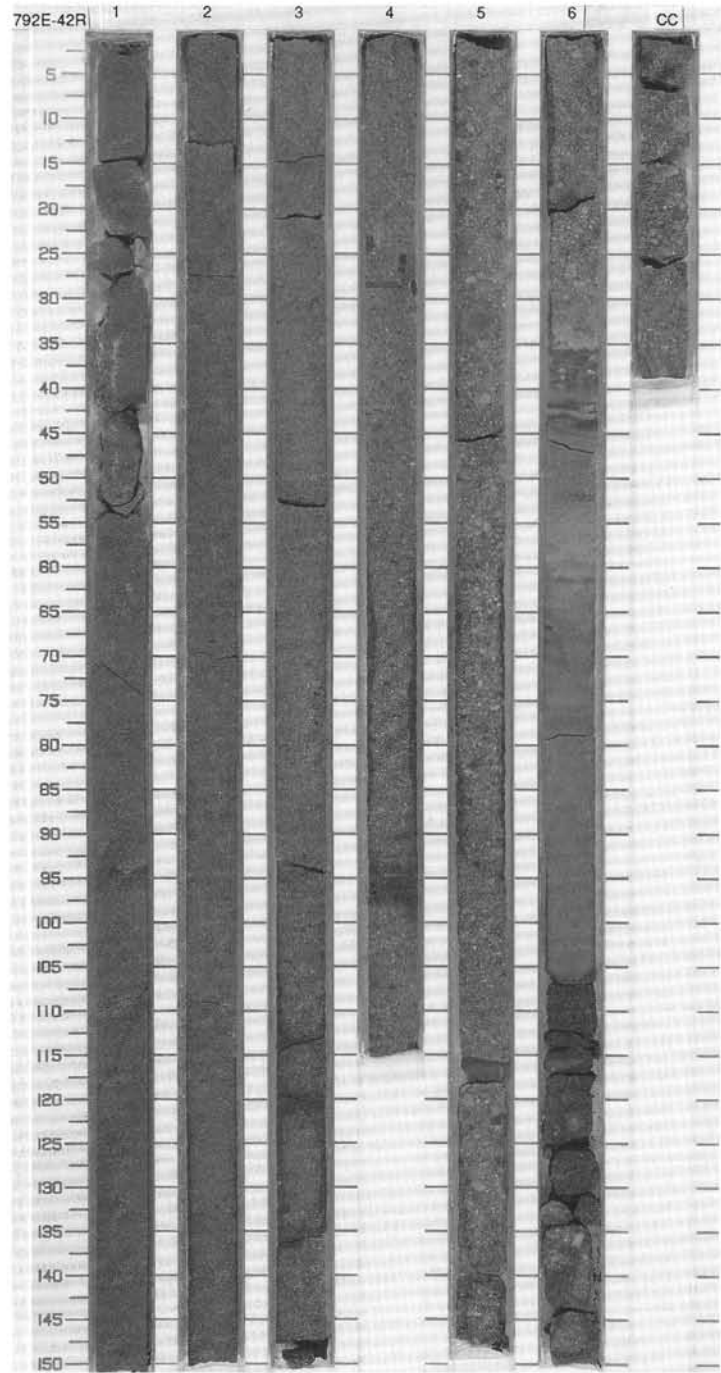
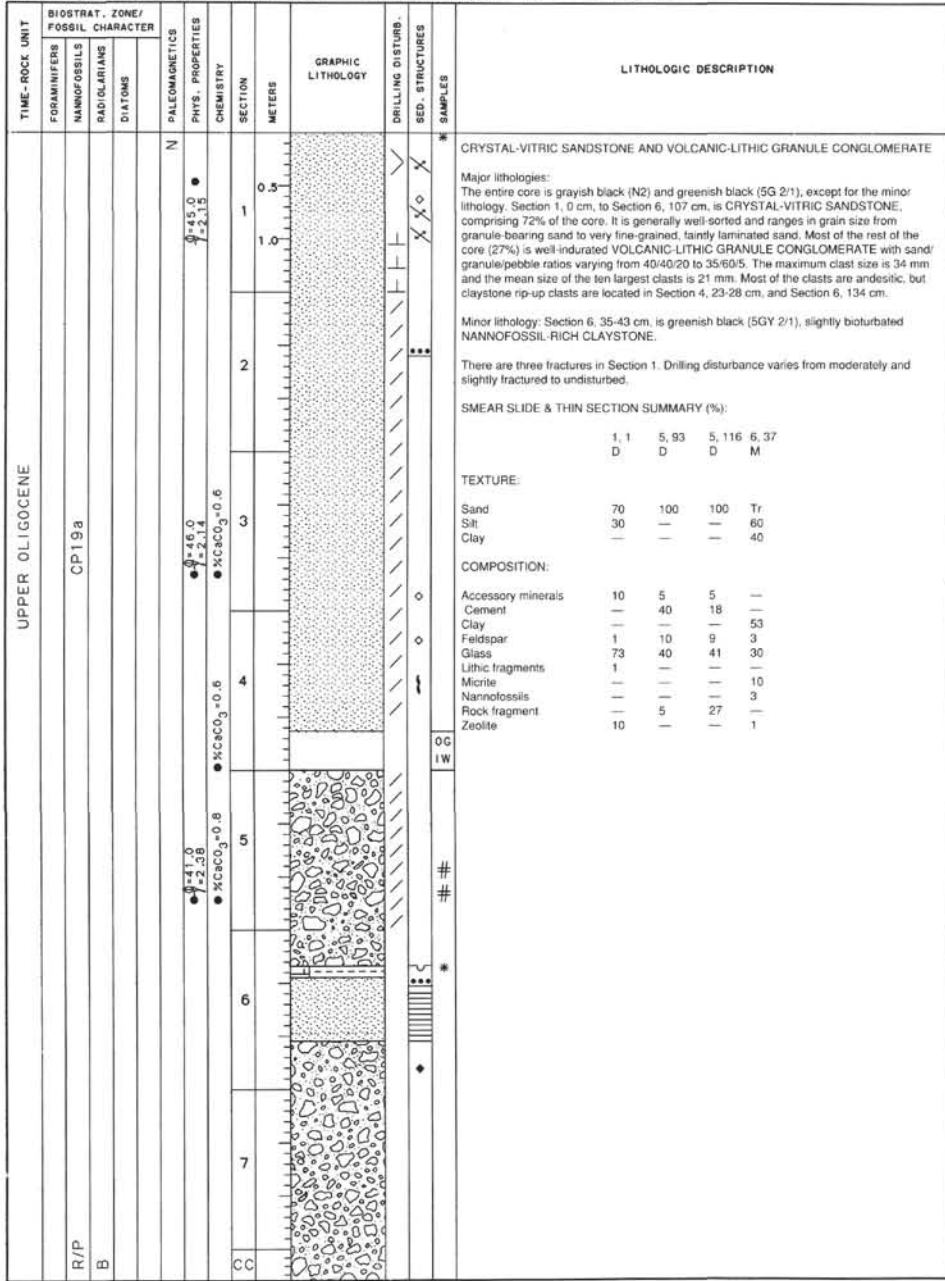






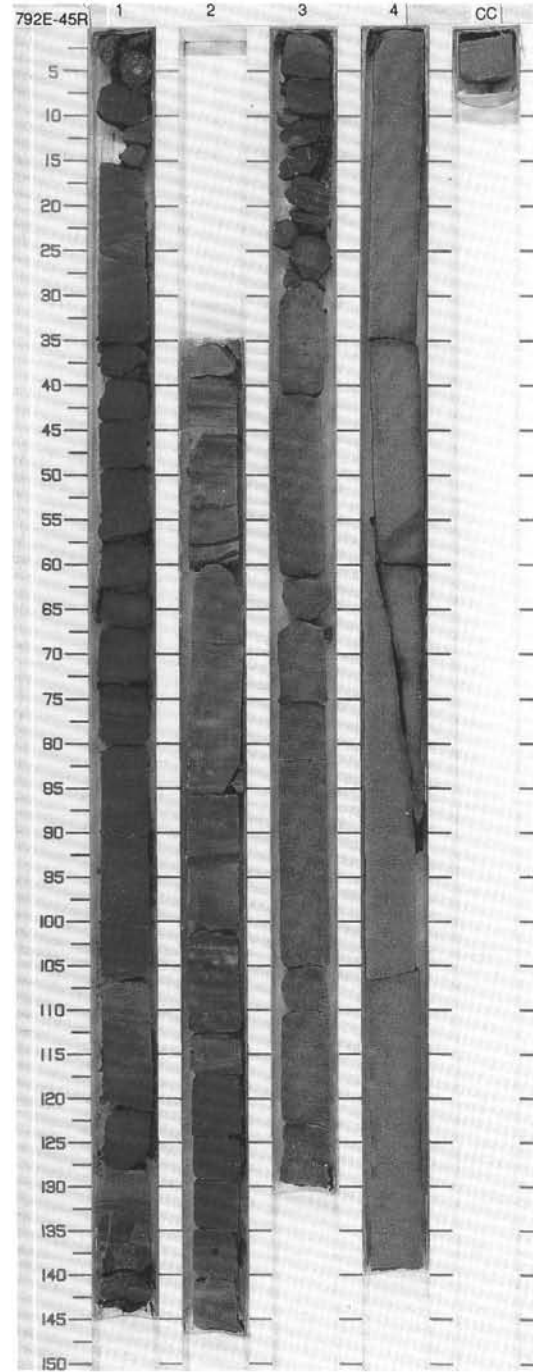
SITE 792 HOLE E CORE 41R CORED INTERVAL 521.6-531.2 mbsf



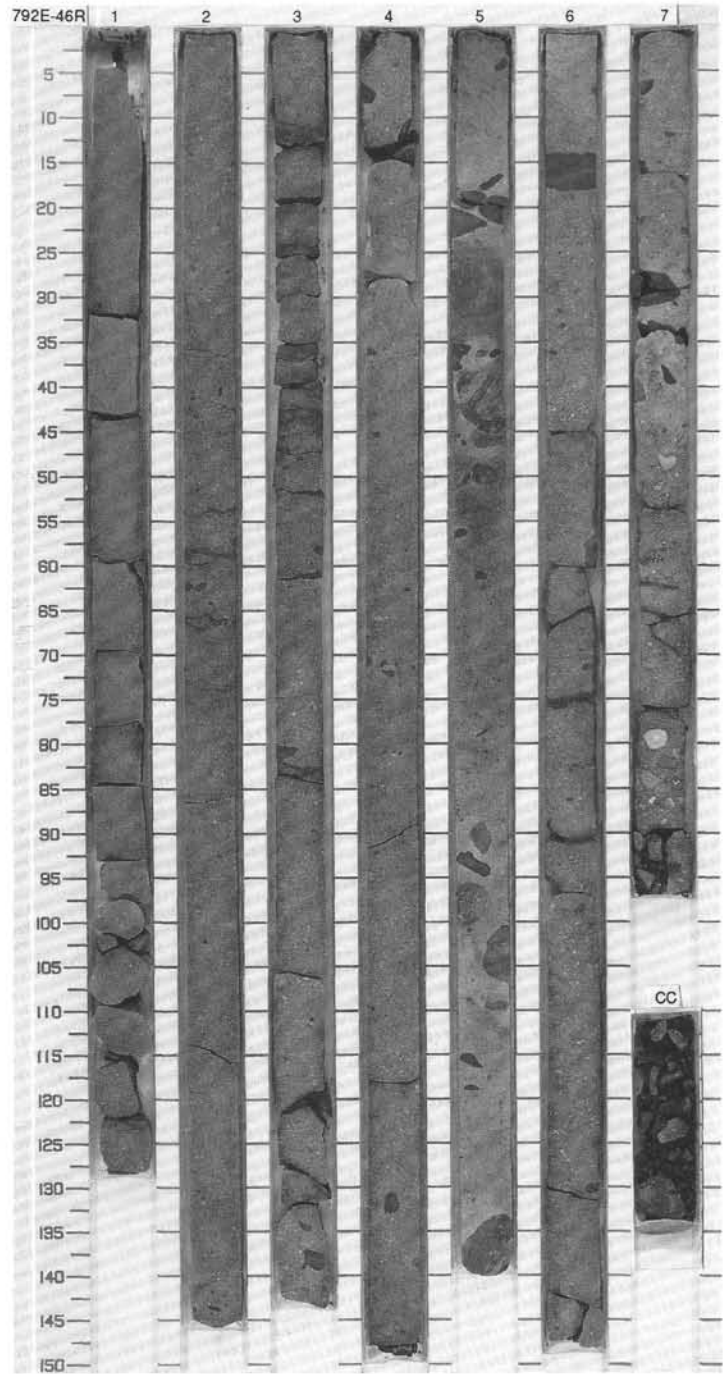


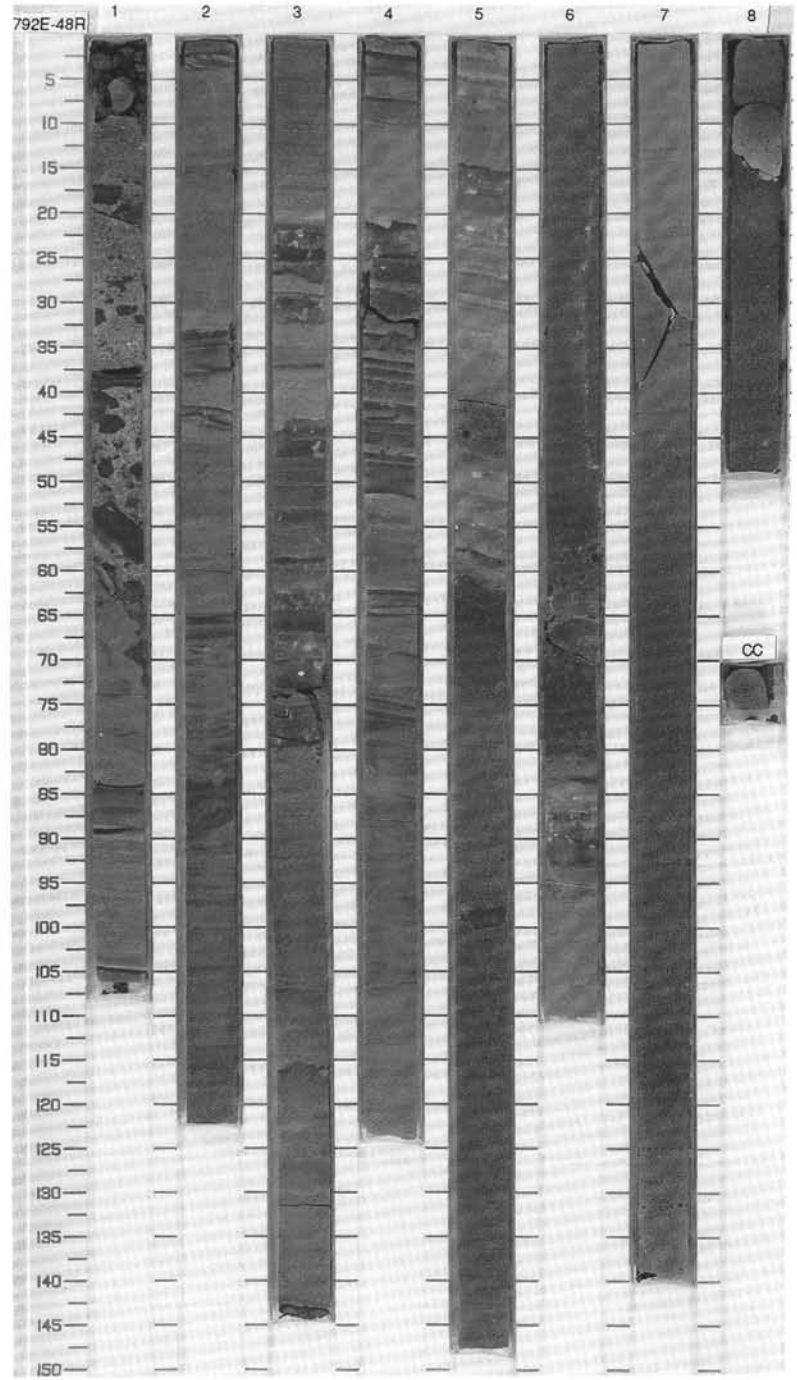
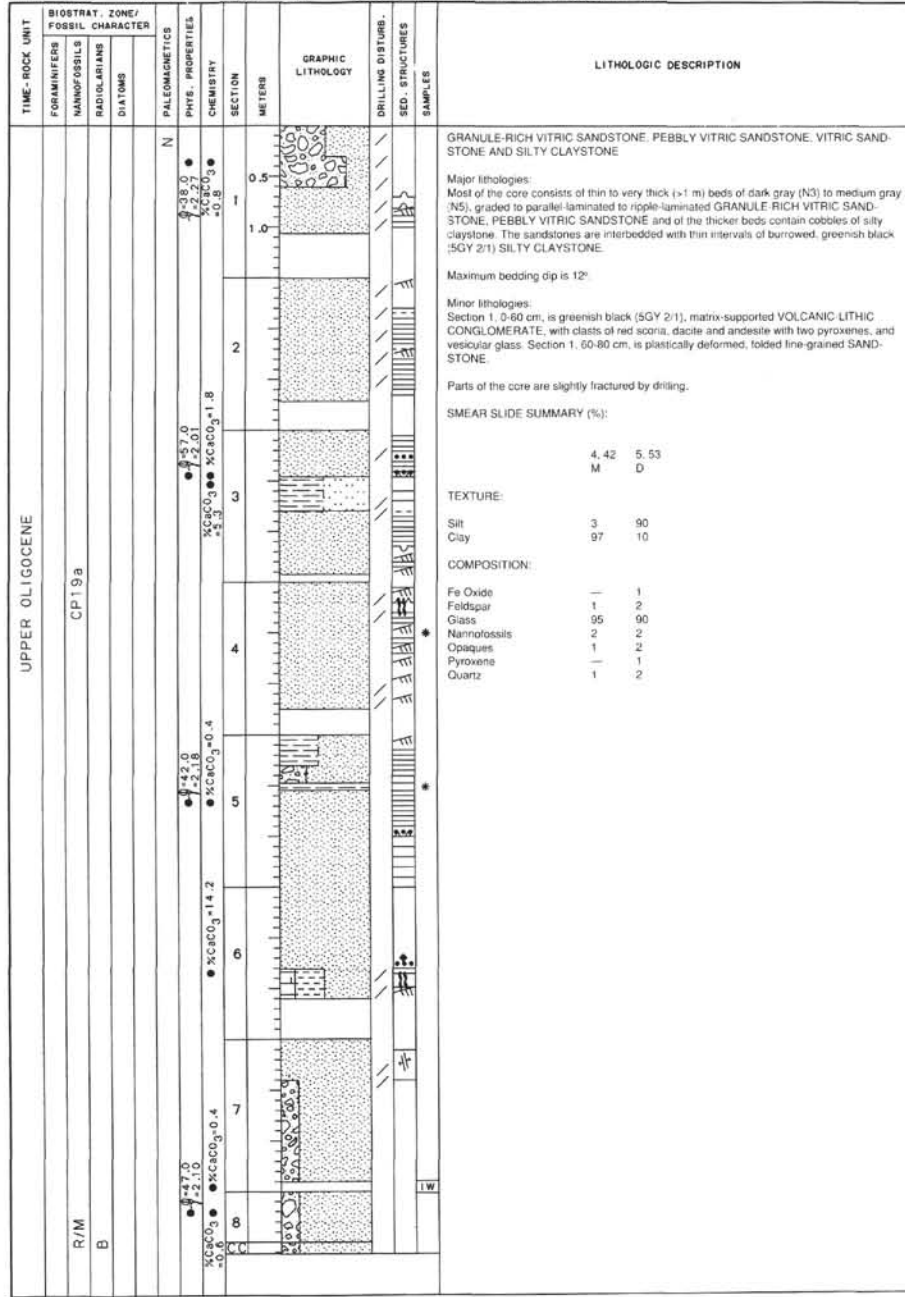
SITE 792 HOLE E CORE 45R CORED INTERVAL 560.0-569.7 mbst

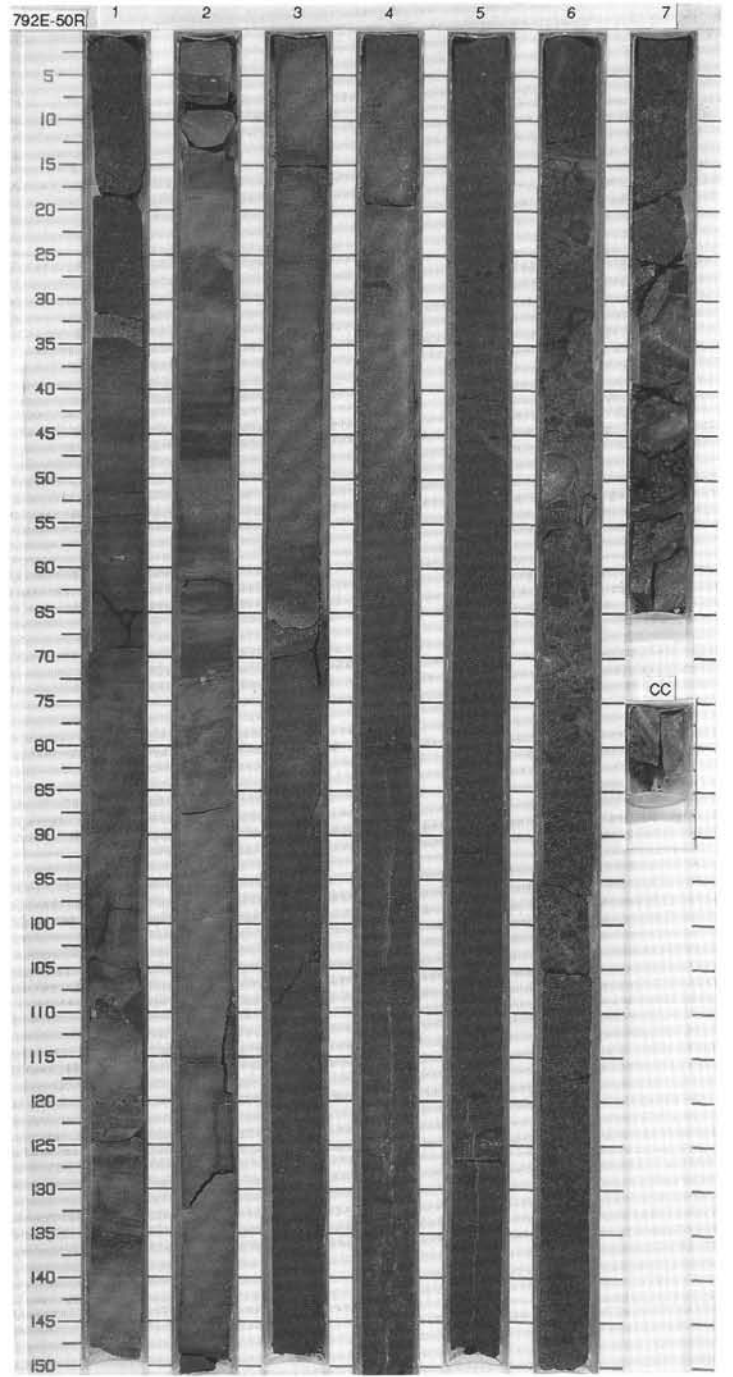
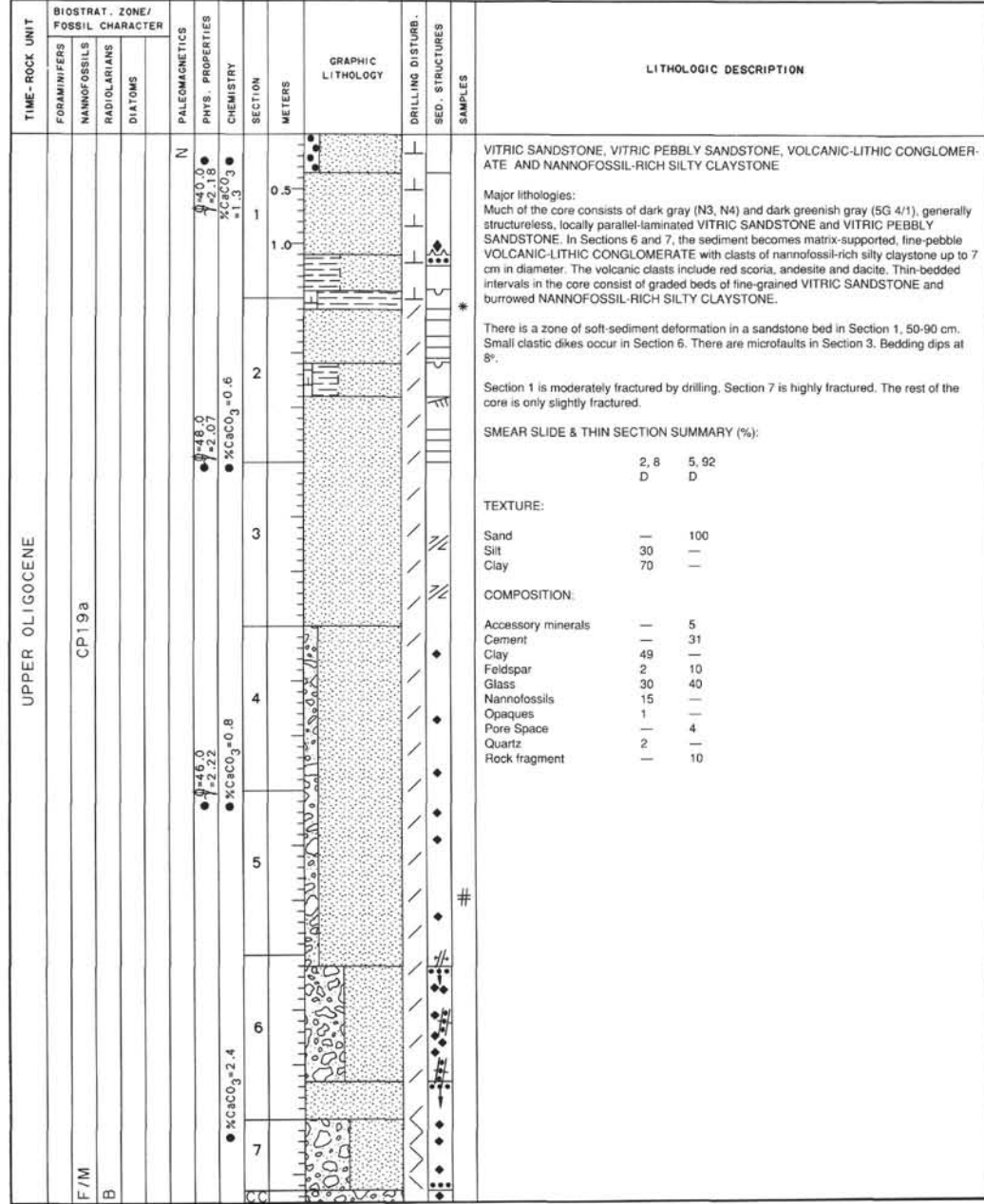
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	SECTIONS	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																								
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS								DIAZONES	PHYS. PROPERTIES	CHEMISTRY																																																																					
UPPER OLILOCENE	B	R/P	B	N	1	0.5	[Lithology: Dotted pattern]	X		<p>CRYSTAL-VITRIC SANDSTONE</p> <p>Major lithology: Grayish black (N2) CRYSTAL-VITRIC SANDSTONE comprises 90% of the core. In Sections 1 and 2, it is predominantly fine to very fine grained, normally graded, and exhibits planar and cross-lamination. In Sections 3, 4 and the CC it is very coarse to medium grained and massive.</p> <p>Minor lithologies: 9% of the core is composed of rare interbeds, 2-7 cm thick, of greenish black (5G 2/1), slightly burrowed NANNOFOSSIL-RICH CLAYSTONE. Section 1, 0-5 cm, consists of fragments of greenish black (5GY 2/1) VOLCANIC-LITHIC PEBBLE-GRANULE CONGLOMERATE.</p> <p>A microfault or very thin clastic dike that dips at approximately 40° occurs in Section 4, 53-58 cm. There is a second subvertical fault from Section 4, 56-92 cm that crosses the first. Displacements are unknown.</p> <p>Drilling disturbance is moderate to slight except for Section 3, 10-31 cm, which is highly fractured.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>2, 143</td> <td>3, 19</td> <td>3, 32</td> </tr> <tr> <td></td> <td>M</td> <td>M</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>—</td> <td>—</td> <td>80</td> </tr> <tr> <td>Silt</td> <td>40</td> <td>40</td> <td>20</td> </tr> <tr> <td>Clay</td> <td>60</td> <td>60</td> <td>—</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Accessory minerals</td> <td>1</td> <td>Tr</td> <td>1</td> </tr> <tr> <td>Carbonate</td> <td>—</td> <td>—</td> <td>7</td> </tr> <tr> <td>Clay</td> <td>57</td> <td>57</td> <td>1</td> </tr> <tr> <td>Diatoms</td> <td>1</td> <td>—</td> <td>—</td> </tr> <tr> <td>Feldspar</td> <td>1</td> <td>—</td> <td>5</td> </tr> <tr> <td>Foraminifers</td> <td>—</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Glass</td> <td>—</td> <td>20</td> <td>54</td> </tr> <tr> <td>Glauconite</td> <td>Tr</td> <td>—</td> <td>—</td> </tr> <tr> <td>Lithic fragments</td> <td>—</td> <td>—</td> <td>2</td> </tr> <tr> <td>Micrite</td> <td>4</td> <td>1</td> <td>—</td> </tr> <tr> <td>Nannofossils</td> <td>5</td> <td>1</td> <td>—</td> </tr> <tr> <td>Spar Cement</td> <td>1</td> <td>1</td> <td>—</td> </tr> <tr> <td>Zoelite</td> <td>30</td> <td>20</td> <td>30</td> </tr> </table>		2, 143	3, 19	3, 32		M	M	D	Sand	—	—	80	Silt	40	40	20	Clay	60	60	—	Accessory minerals	1	Tr	1	Carbonate	—	—	7	Clay	57	57	1	Diatoms	1	—	—	Feldspar	1	—	5	Foraminifers	—	Tr	—	Glass	—	20	54	Glauconite	Tr	—	—	Lithic fragments	—	—	2	Micrite	4	1	—	Nannofossils	5	1	—	Spar Cement	1	1	—	Zoelite	30	20	30
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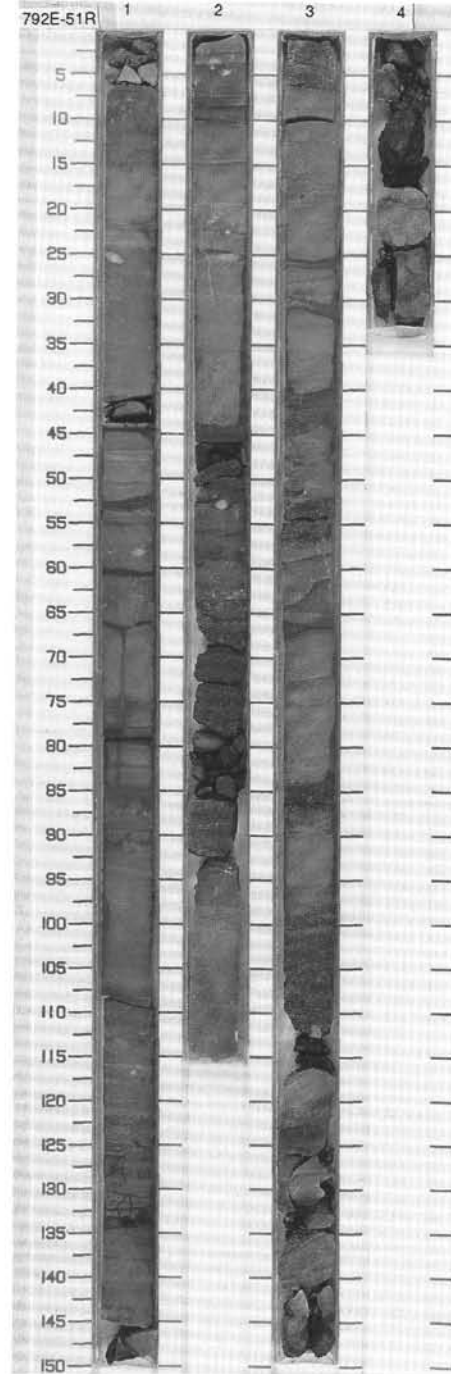
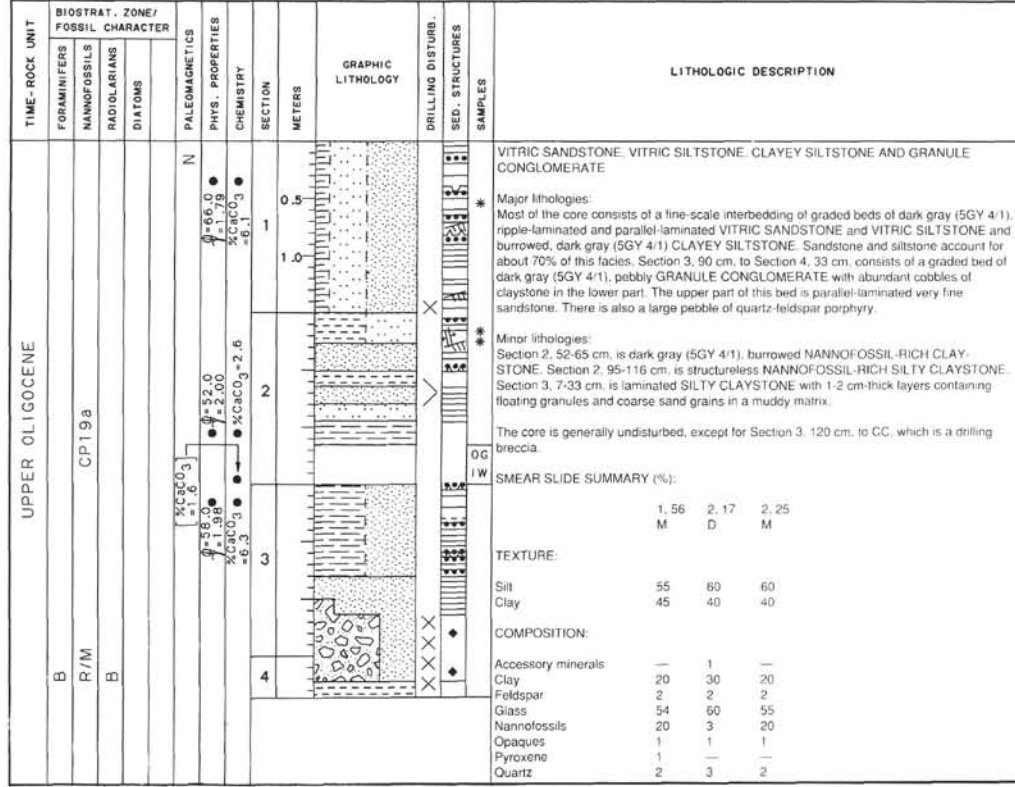
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																						
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS											DIATOMS																																																																					
UPPER Oligocene					N	● 45.0 / 22.17 %CO ₃		0.5					<p>ZEOLITE-RICH VITRIC SANDSTONE AND VITRIC PEBBLY SANDSTONE</p> <p>Major lithologies: This core consists entirely of greenish black (5GY 2/1) ZEOLITE-RICH VITRIC SANDSTONE (Section 1 and Section 2, 0-50 cm), coarsening downward into VITRIC PEBBLY SANDSTONE of the same color. There are no sedimentary structures. Except for Section 7, most pebbles and rare cobbles consist of grayish black (N2) claystone and nannofossil-rich claystone.</p> <p>The igneous clasts are as follows: medium porphyritic andesite with orthopyroxene, clinopyroxene and plagioclase, and with vesicles filled with smectites; highly vesicular andesite with two pyroxenes and plagioclase; dacite with clots of orthopyroxene, clinopyroxene and plagioclase; acidic volcanic rock with recrystallized groundmass.</p> <p>* The core is slightly fractured by drilling in Sections 2 through 5 and is moderately fractured elsewhere.</p> <p>SMEAR SLIDE & THIN SECTION SUMMARY (%):</p> <table border="1"> <thead> <tr> <th></th> <th>1, 65 D</th> <th>2, 100 D</th> <th>3, 16 D</th> <th>6, 16 M</th> </tr> </thead> <tbody> <tr> <td>Sand</td> <td>80</td> <td>30</td> <td>100</td> <td>—</td> </tr> <tr> <td>Silt</td> <td>20</td> <td>70</td> <td>—</td> <td>5</td> </tr> <tr> <td>Clay</td> <td>—</td> <td>—</td> <td>—</td> <td>95</td> </tr> </tbody> </table> <p>TEXTURE: #</p> <p>COMPOSITION:</p> <table border="1"> <tbody> <tr><td>Accessory minerals</td><td>—</td><td>—</td><td>2</td><td>—</td></tr> <tr><td>Cement</td><td>—</td><td>—</td><td>50</td><td>—</td></tr> <tr><td>Clay</td><td>—</td><td>—</td><td>—</td><td>100</td></tr> <tr><td>Feldspar</td><td>10</td><td>5</td><td>2</td><td>—</td></tr> <tr><td>Glass</td><td>72</td><td>72</td><td>42</td><td>—</td></tr> <tr><td>Olivine</td><td>8</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>Opauques</td><td>—</td><td>3</td><td>—</td><td>—</td></tr> <tr><td>Pore Space</td><td>—</td><td>—</td><td>2</td><td>—</td></tr> <tr><td>Rock fragment</td><td>—</td><td>—</td><td>2</td><td>—</td></tr> <tr><td>Zeolite</td><td>10</td><td>20</td><td>—</td><td>—</td></tr> </tbody> </table>		1, 65 D	2, 100 D	3, 16 D	6, 16 M	Sand	80	30	100	—	Silt	20	70	—	5	Clay	—	—	—	95	Accessory minerals	—	—	2	—	Cement	—	—	50	—	Clay	—	—	—	100	Feldspar	10	5	2	—	Glass	72	72	42	—	Olivine	8	—	—	—	Opauques	—	3	—	—	Pore Space	—	—	2	—	Rock fragment	—	—	2	—	Zeolite	10	20	—	—
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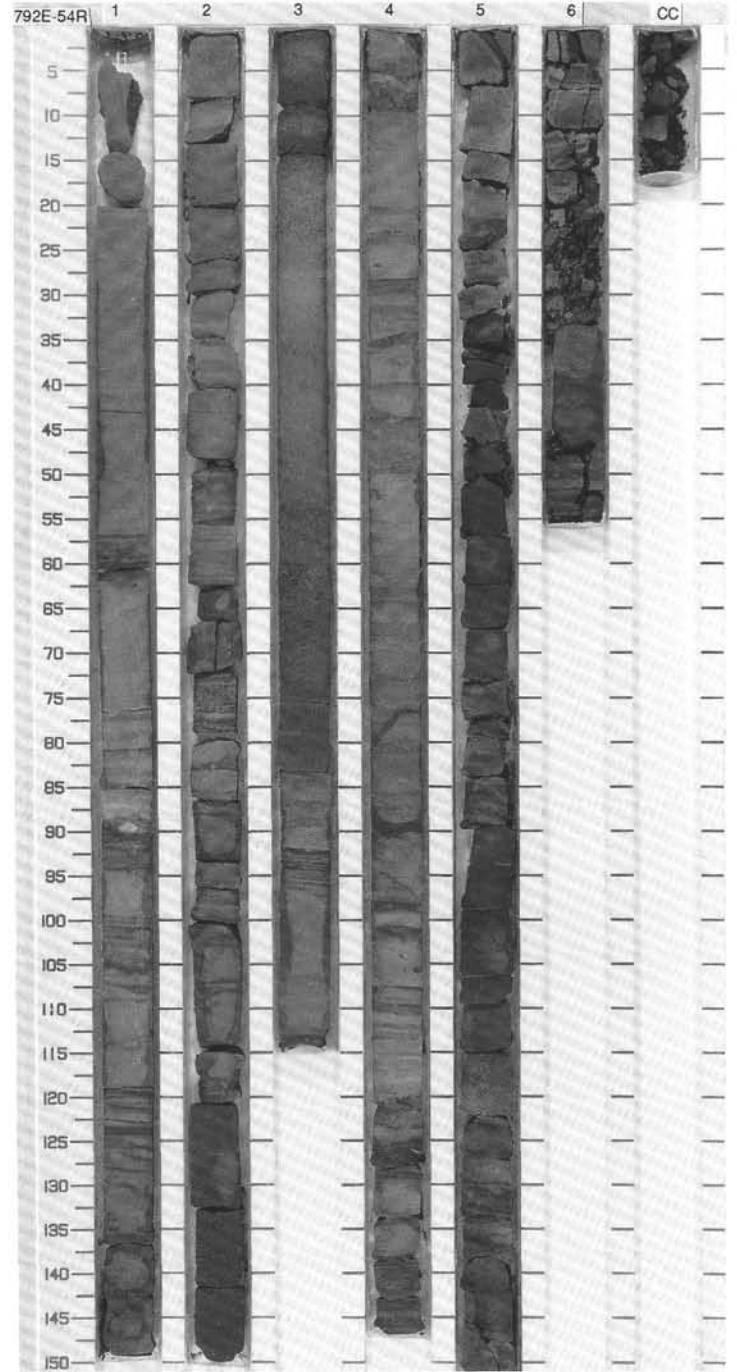
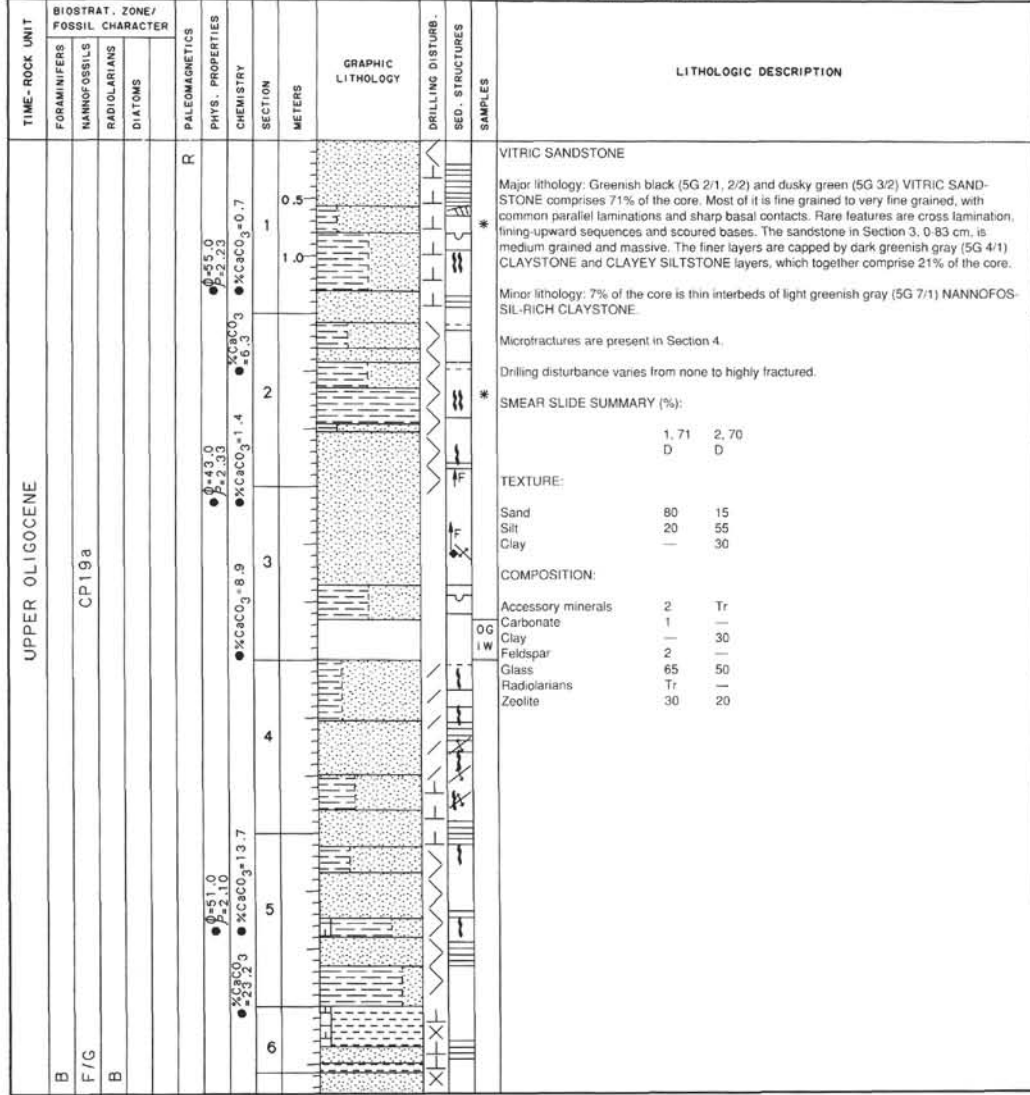




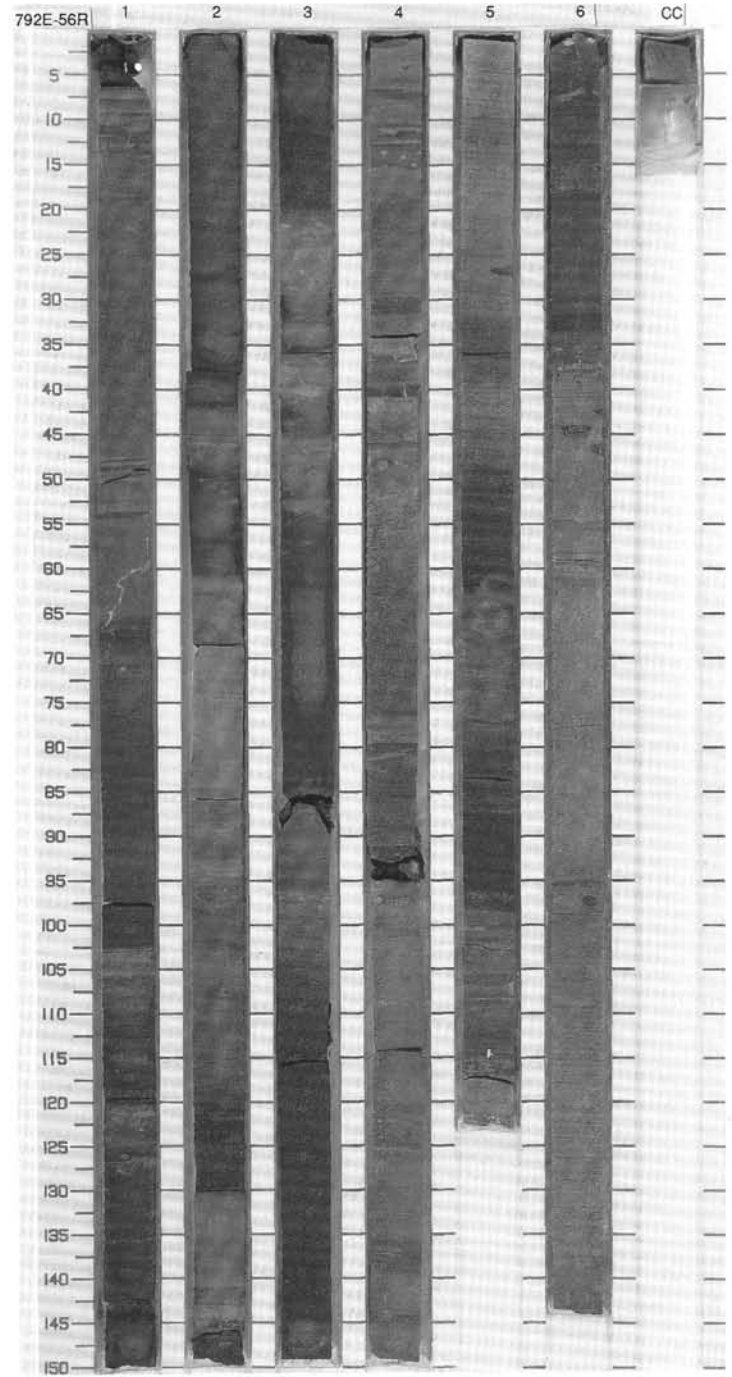
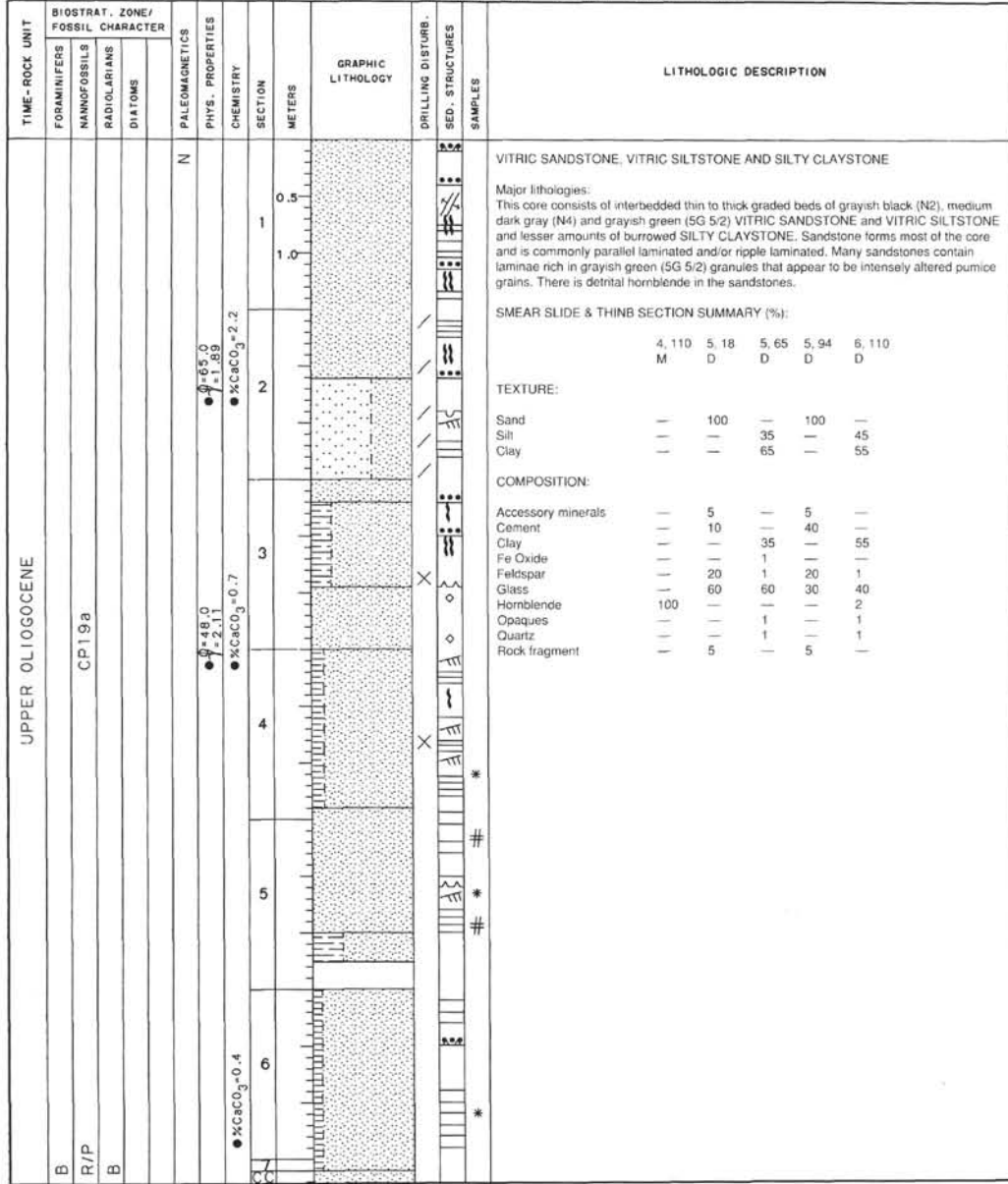
SITE 792 HOLE E CORE 51R CORED INTERVAL 617.1 -626.8 mbsf



SITE 792 HOLE E CORE 54R CORED INTERVAL 646.1-655.7 mbsf

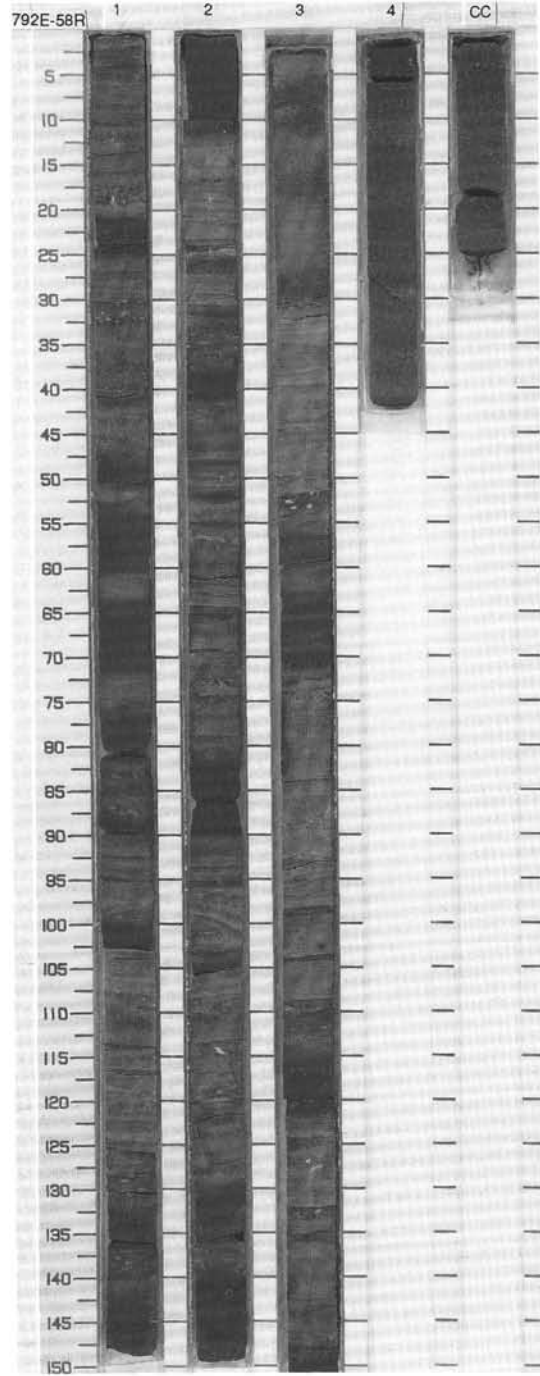


SITE 792 HOLE E CORE 56R CORED INTERVAL 665.4-675.1 mbsf

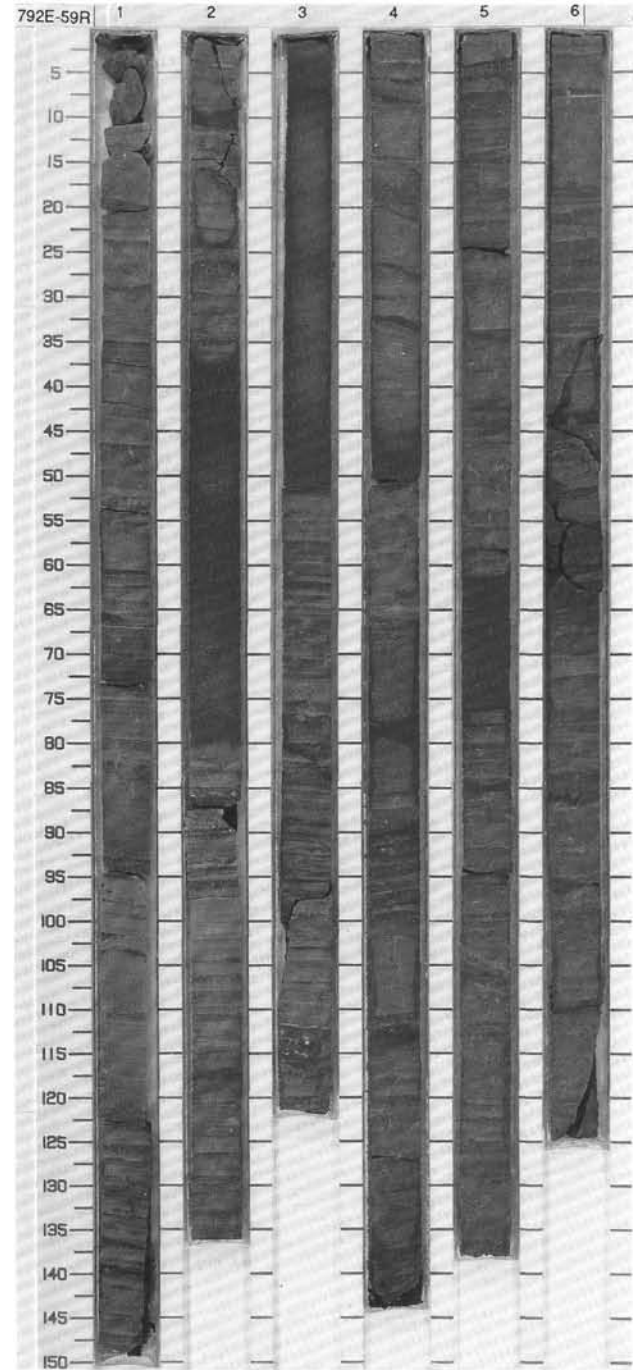


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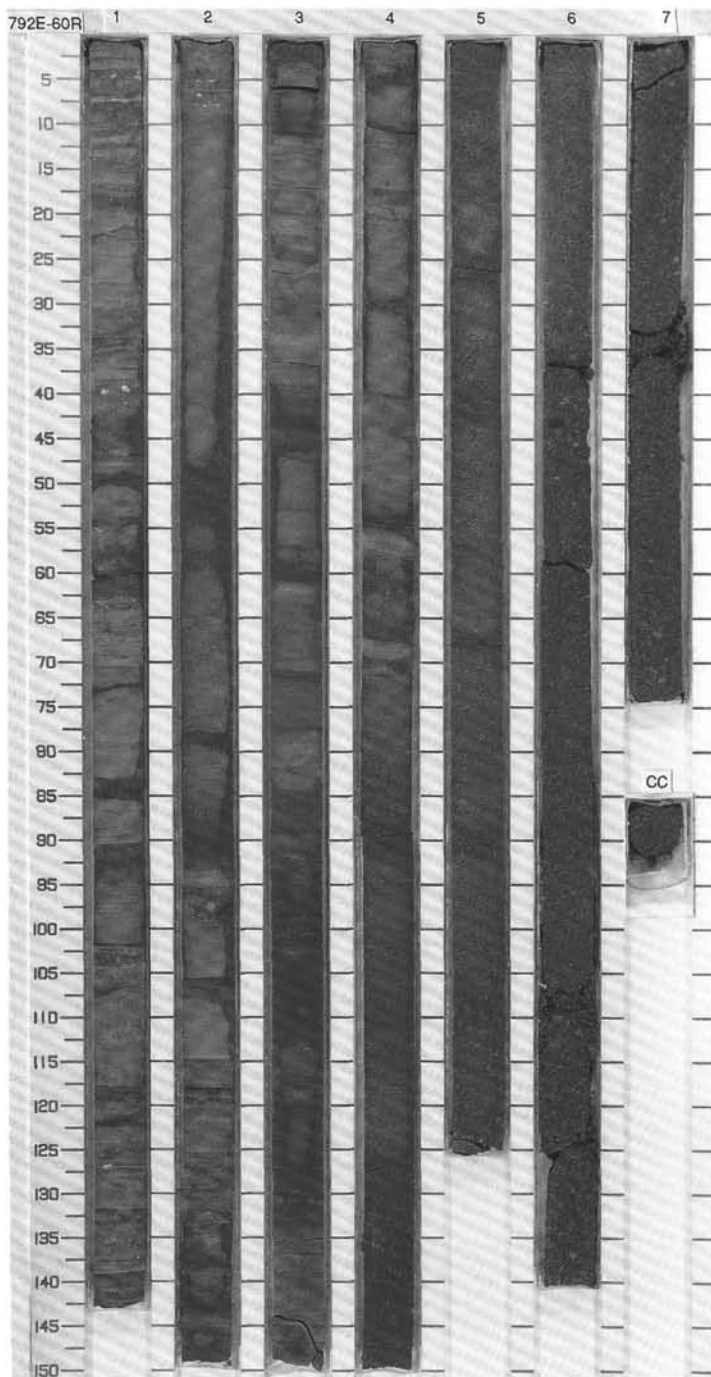
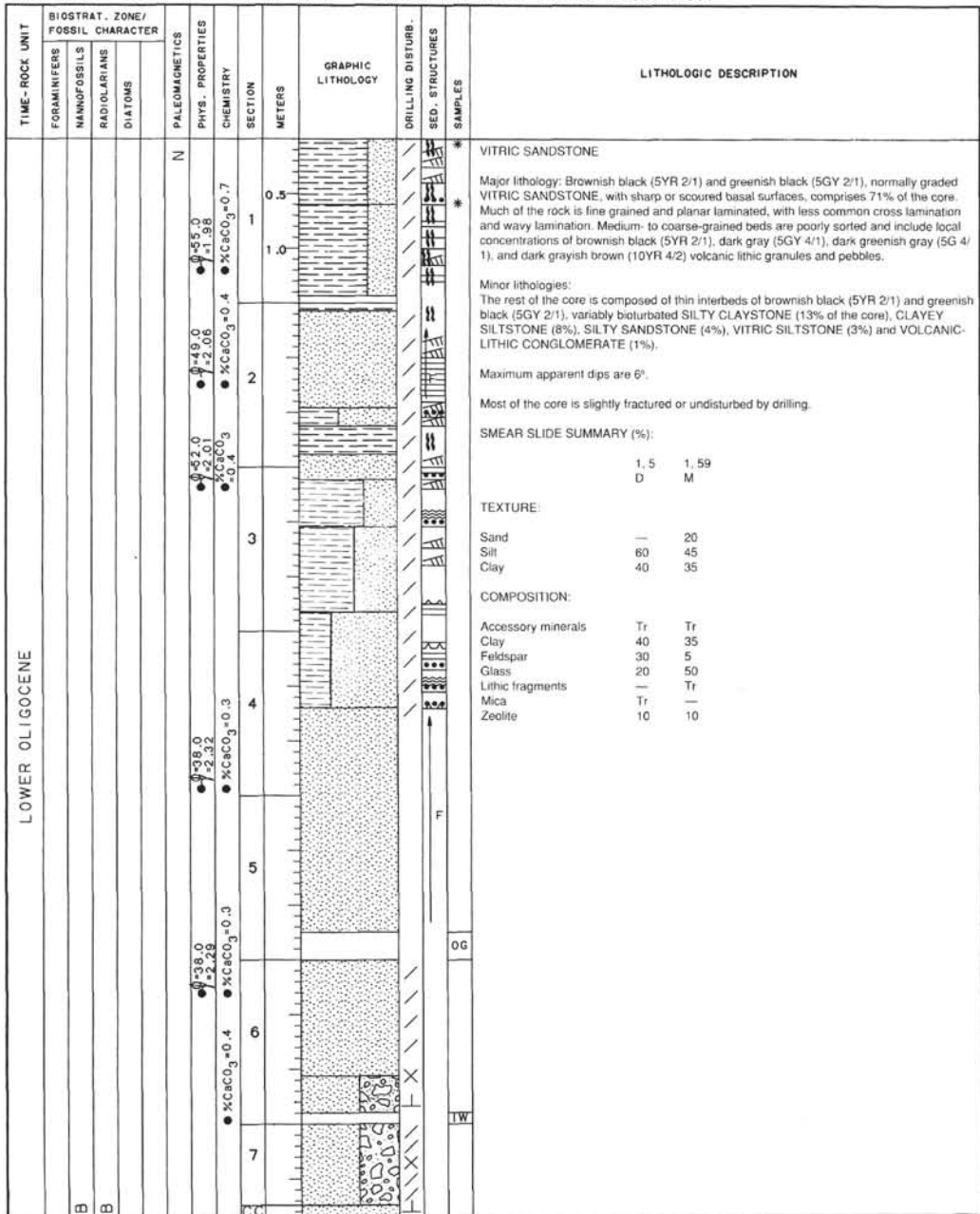
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																				
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																																																													
LOWER OLIIGOCENE?					N	$\sigma = 4.0$ $\tau = 1.95$ $K = 6.0$ $\alpha = 0.5$		1	0.5 1.0				VITRIC SANDSTONE, VITRIC SILTY CLAYSTONE, VITRIC CLAYEY SILTSTONE AND NANNOFOSSIL-RICH SILTY CLAYSTONE Major lithologies: Section 4 and the core catcher consist of dark gray (N3), very coarse-grained, graded to parallel-laminated VITRIC SANDSTONE. The rest of the core consists of thinly interbedded graded beds of very dark brown (10YR 2/2) and dark gray (5GY 4/1) VITRIC SANDSTONE, VITRIC CLAYEY SILTSTONE, burrowed VITRIC SILTY CLAYSTONE, and burrowed NANNOFOSSIL-RICH SILTY CLAYSTONE. Maximum apparent dip is 8° The core is slightly to moderately fractured by drilling. SMEAR SLIDE SUMMARY (%): <table border="1"> <tr> <td></td> <td>1, 56</td> <td>1, 72</td> <td>2, 15</td> <td>2, 106</td> <td>3, 30</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> TEXTURE: <table border="1"> <tr> <td>Sand</td> <td>30</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Silt</td> <td>50</td> <td>20</td> <td>20</td> <td>10</td> <td>40</td> </tr> <tr> <td>Clay</td> <td>20</td> <td>80</td> <td>80</td> <td>90</td> <td>60</td> </tr> </table> COMPOSITION: <table border="1"> <tr> <td>Accessory minerals</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>1</td> </tr> <tr> <td>Clay</td> <td>13</td> <td>80</td> <td>72</td> <td>67</td> <td>60</td> </tr> <tr> <td>Feldspar</td> <td>2</td> <td>2</td> <td>3</td> <td>1</td> <td>3</td> </tr> <tr> <td>Glass</td> <td>80</td> <td>15</td> <td>20</td> <td>10</td> <td>30</td> </tr> <tr> <td>Nannofossils</td> <td>—</td> <td>—</td> <td>—</td> <td>20</td> <td>—</td> </tr> <tr> <td>Opauques</td> <td>2</td> <td>1</td> <td>1</td> <td>—</td> <td>1</td> </tr> <tr> <td>Oxide</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>2</td> </tr> <tr> <td>Pyroxene</td> <td>1</td> <td>—</td> <td>1</td> <td>1</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>2</td> <td>2</td> <td>3</td> <td>1</td> <td>3</td> </tr> </table>		1, 56	1, 72	2, 15	2, 106	3, 30	D	D	D	D	D	D	Sand	30	—	—	—	—	Silt	50	20	20	10	40	Clay	20	80	80	90	60	Accessory minerals	—	—	—	—	1	Clay	13	80	72	67	60	Feldspar	2	2	3	1	3	Glass	80	15	20	10	30	Nannofossils	—	—	—	20	—	Opauques	2	1	1	—	1	Oxide	—	—	—	—	2	Pyroxene	1	—	1	1	—	Quartz	2	2	3	1	3
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Pyroxene	1	—	1	1	—																																																																																												
Quartz	2	2	3	1	3																																																																																												
					N	$\sigma = 62.0$ $\tau = 1.95$ $K = 6.0$ $\alpha = 0.5$		3																																																																																									
					N	$\sigma = 42.0$ $\tau = 2.33$ $K = 6.0$ $\alpha = 0.4$		4																																																																																									
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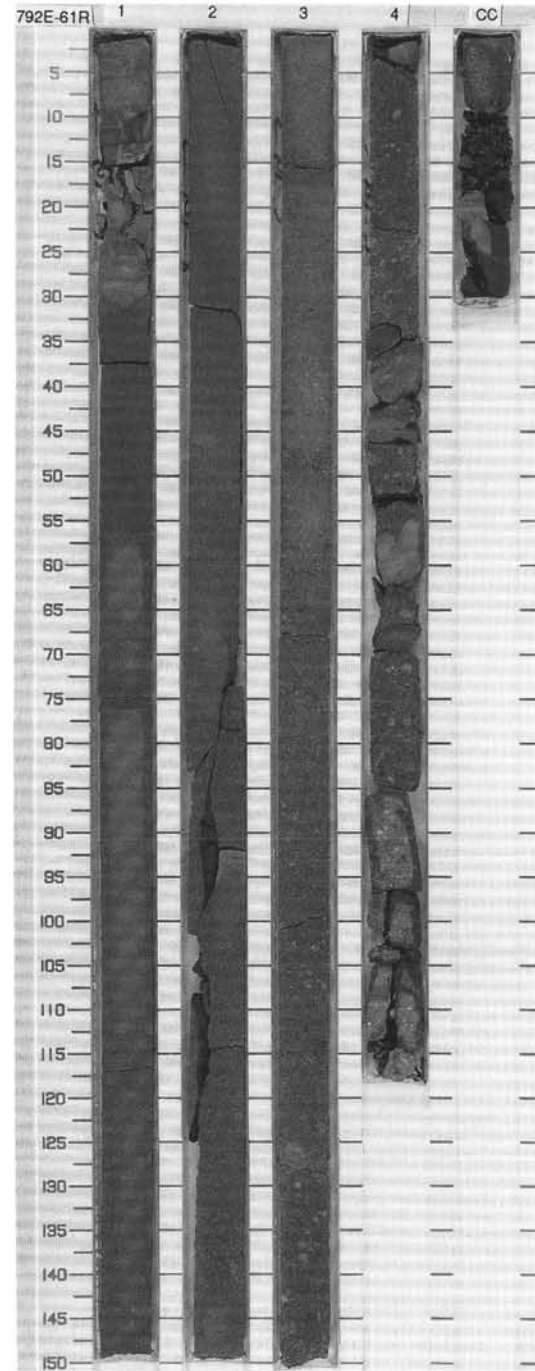
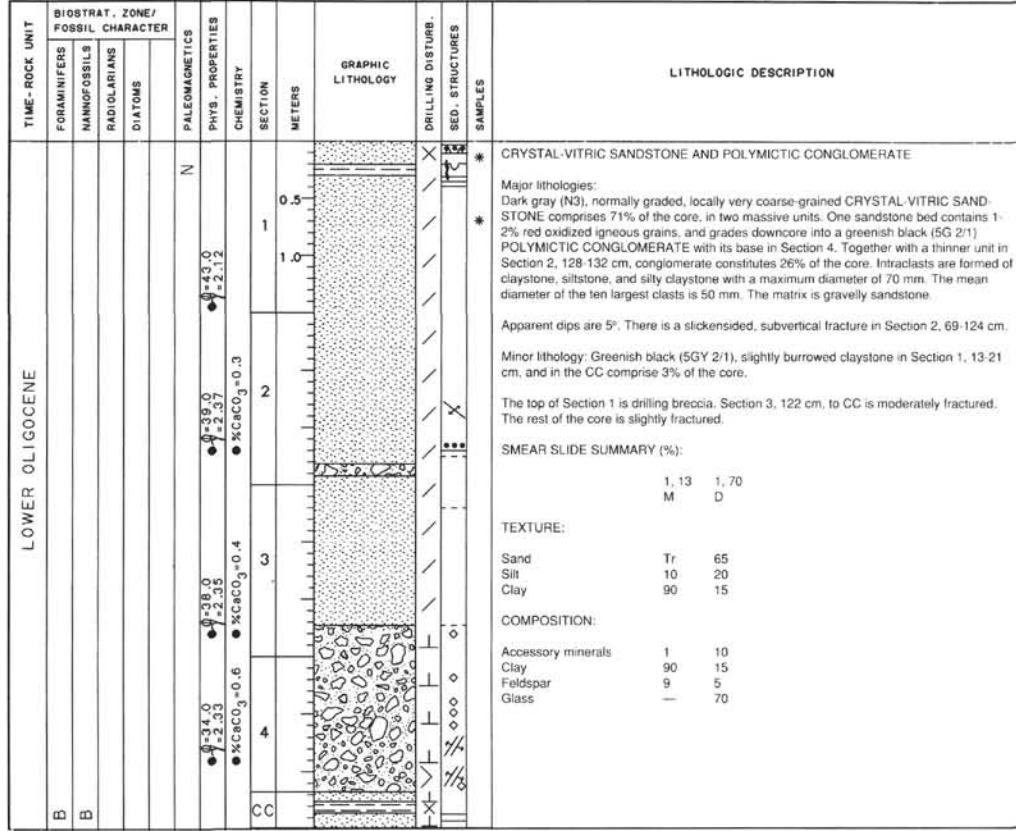


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
	FOSSIL CHARACTER												
LOWER OLIGOCENE					N	0-55.0 1-2.00 %CaCO ₃ 6.1	0-55.0 1-2.00 %CaCO ₃ 0.7	1	0.5 1.0			VITRIC SANDSTONE, VITRIC CLAYEY SILTSTONE AND NANNOFOSSIL-RICH SILTY CLAYSTONE Major lithologies: About 20% of the core consists of thin to medium-graded beds of very dusky red (10R 2/2) and dark gray (N3), locally parallel- and ripple-laminated VITRIC SANDSTONE. The rest of the core consists of thinly laminated, dark greenish gray (5G 4/1) VITRIC CLAYEY SILTSTONE and NANNOFOSSIL-RICH SILTY CLAYSTONE with variable amounts of fine-scale lamination and burrowing. Section 5, 60 cm, contains bedding-parallel slickensides. Maximum apparent dip is 6°.	
	B					0-41.0 1-2.2 %CaCO ₃ 0.4	0-41.0 1-2.2 %CaCO ₃ 0.4	2				Minor lithology: Section 1, 37-38 cm, 83-84 cm, Section 2, 24-26 cm, Section 3, 62 cm, and Section 4, 92 cm, consist of dark greenish gray (5G 4/1) beds of VITRIC SILTSTONE (ash). Section 1 is moderately to highly fractured by drilling. The rest of the core is either undisturbed or slightly fractured.	
	R/P	CP17-18				0-35.0 1-4.00 %CaCO ₃ 0.7	0-35.0 1-4.00 %CaCO ₃ 0.7	3				SMEAR SLIDE SUMMARY (%): 6, 44 M TEXTURE: Sand 80 Silt 20 COMPOSITION: Accessory minerals 5 Feldspar 15 Glass 75	
	R/P					0-55.0 1-2.00 %CaCO ₃ 6.1	0-55.0 1-2.00 %CaCO ₃ 0.7	4					
						0-55.0 1-2.00 %CaCO ₃ 6.1	0-55.0 1-2.00 %CaCO ₃ 6.1	5					
								6					

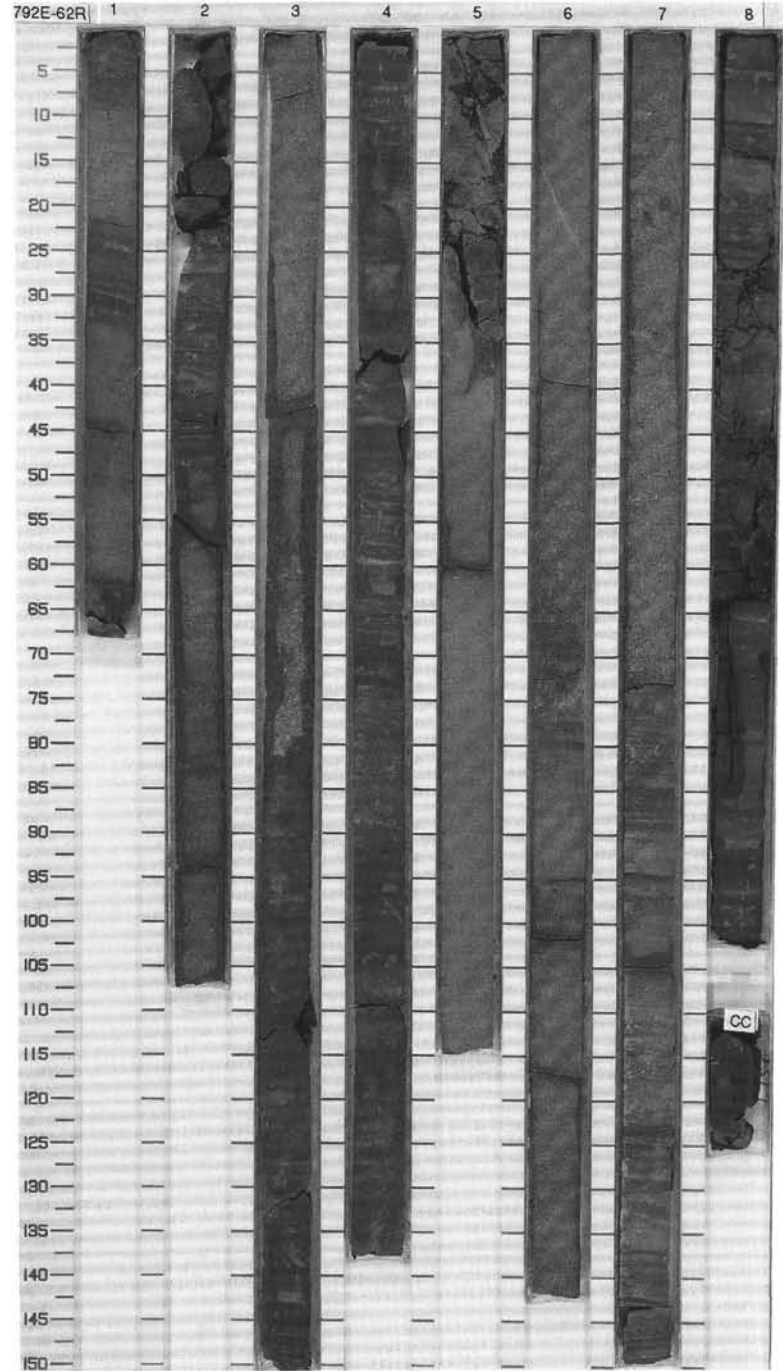
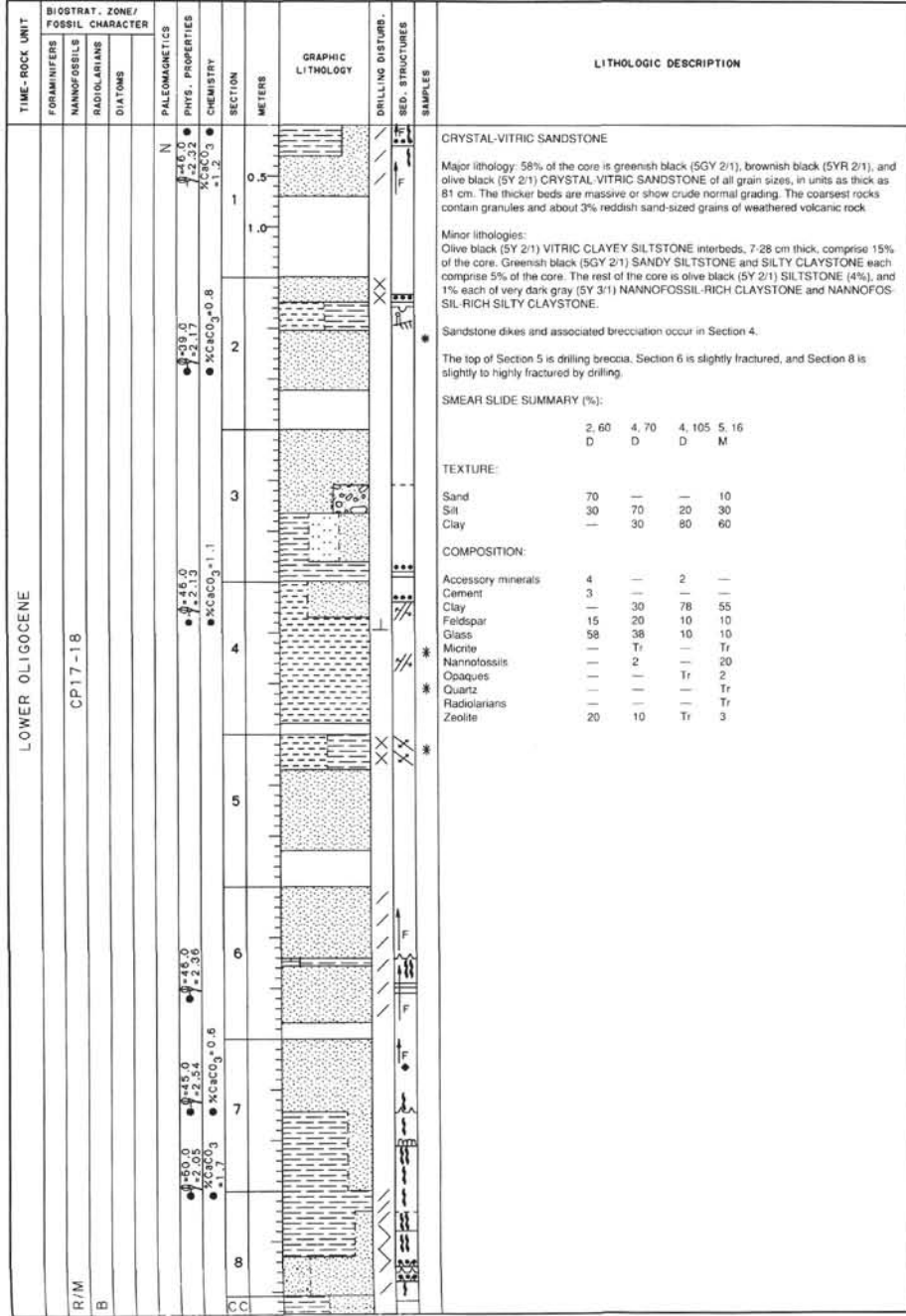


SITE 792 HOLE E CORE 60R CORED INTERVAL 704.0-713.6 mbsf

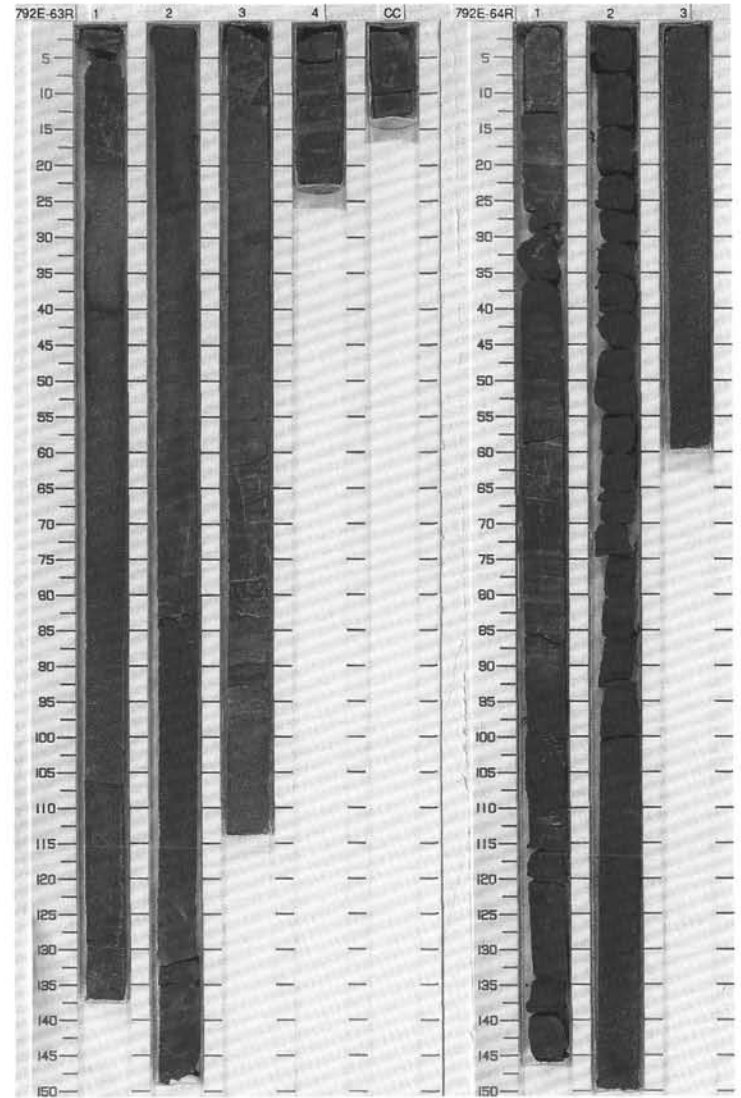
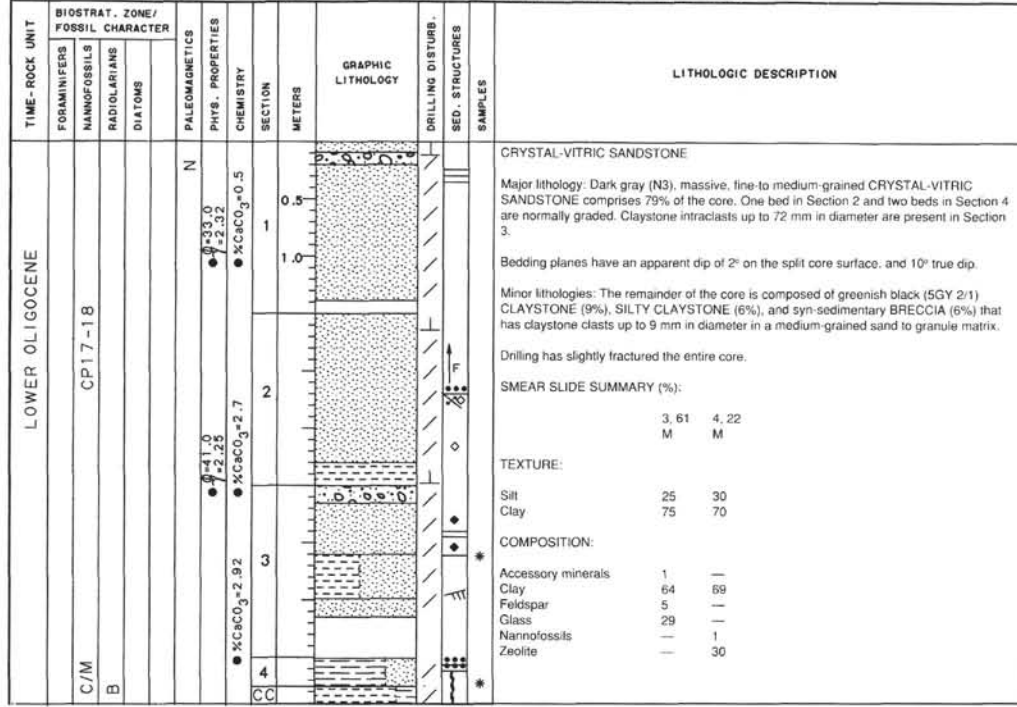




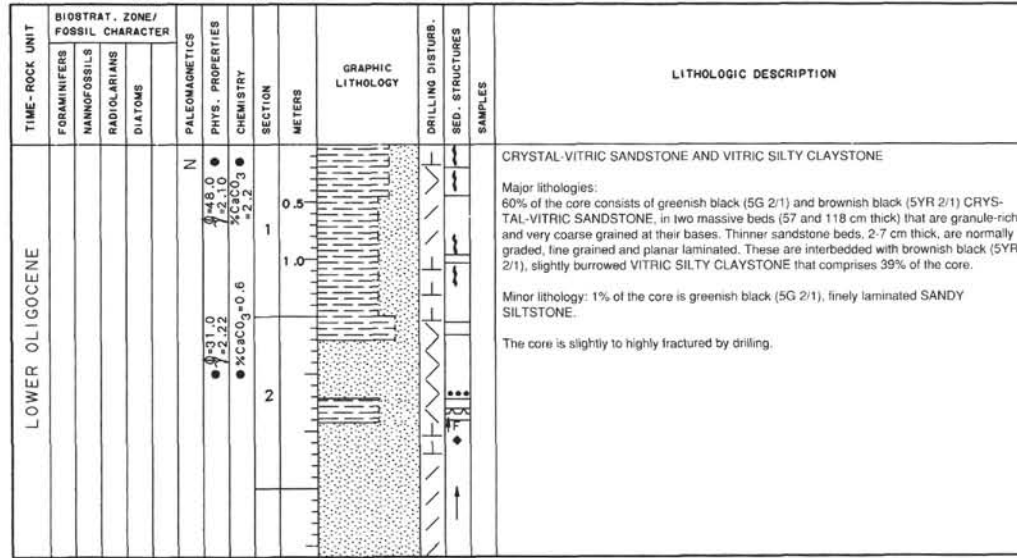
SITE 792 HOLE E CORE 62R CORED INTERVAL 722.9-732.5 mbsf

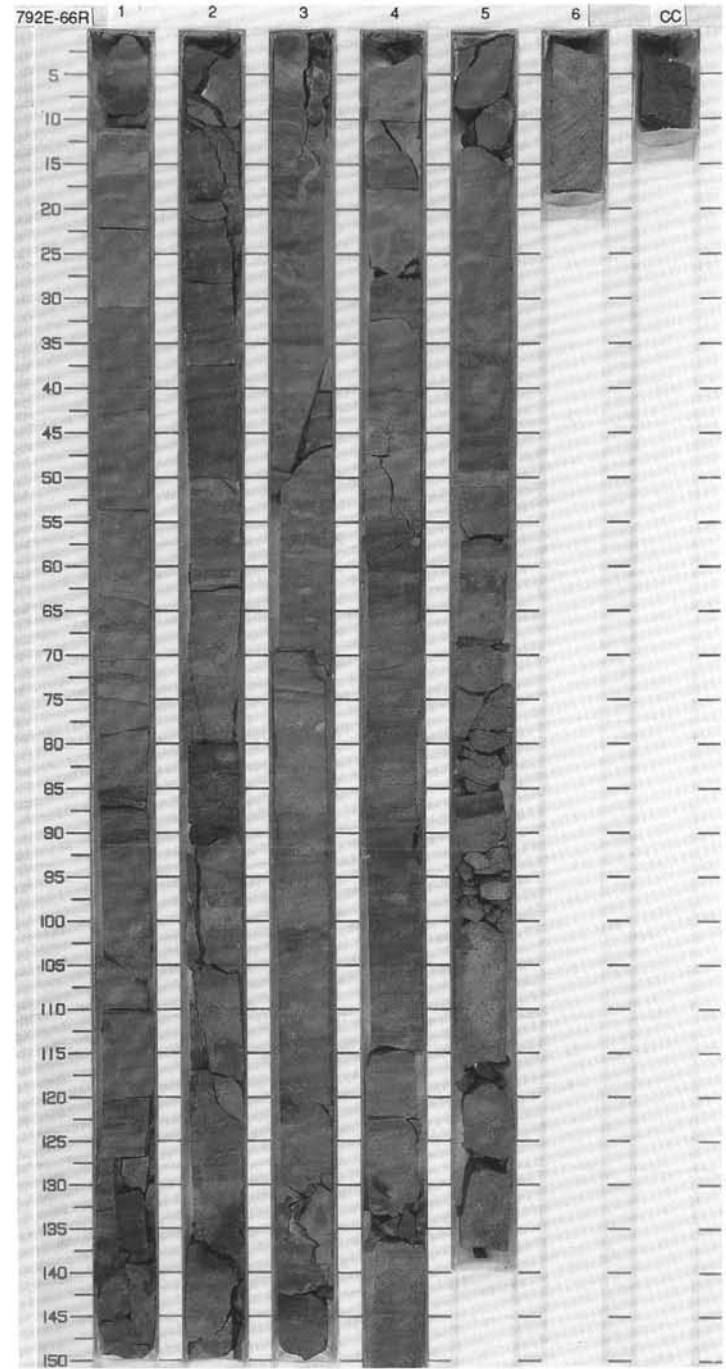
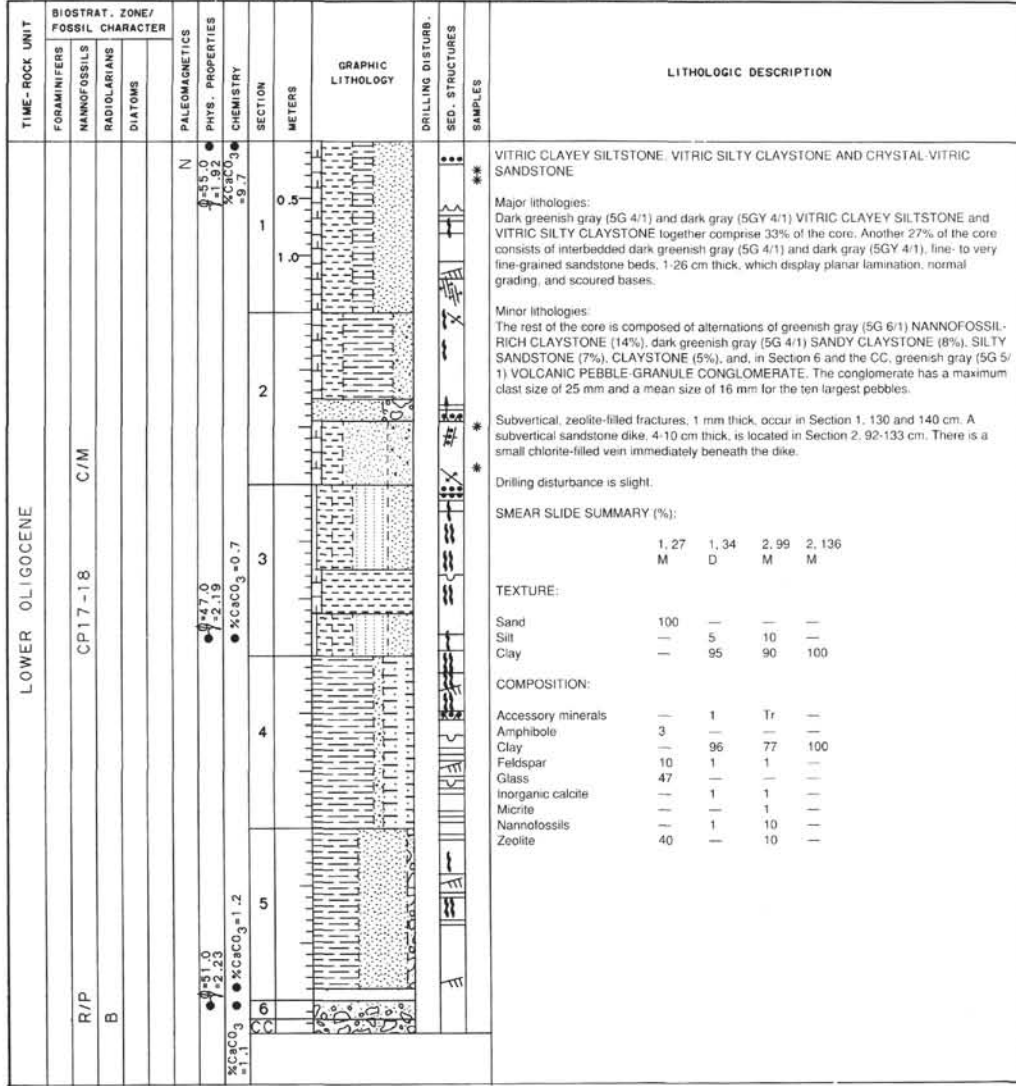


SITE 792 HOLE E CORE 63R CORED INTERVAL 732.5-742.2 mbsf



SITE 792 HOLE E CORE 64R CORED INTERVAL 742.2-751.8 mbsf



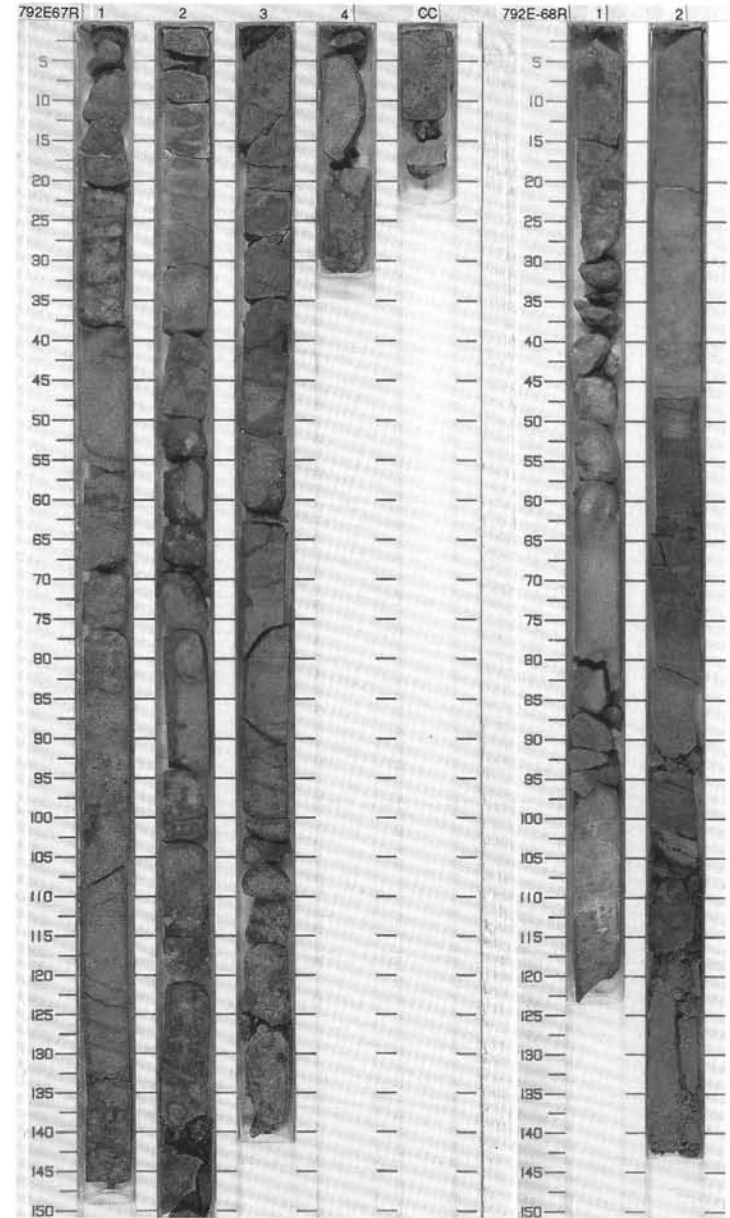


SITE 792 HOLE E CORE 67R CORED INTERVAL 771.2-780.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NAUPOSSILLS	RADIOLARIANS	DIATOMS									
B					N	$\rho = 2.0$ $\rho = 2.33$	$\%CaCO_3 = 0.3$		0.5 1		X		<p>VOLCANIC GRANULE-PEBBLE CONGLOMERATE</p> <p>Major lithology: VOLCANIC GRANULE-PEBBLE CONGLOMERATE comprises 76% of the core and is of two types: medium bluish gray (5B 5/1), monomictic conglomerate and dark bluish gray (5B 4/1), very poorly sorted to moderately sorted, polymictic conglomerate. The clasts are angular to well-rounded and variegated in light red (10R 6/6), red (10R 4/6), very dusky red purple (5RP 2/2), light greenish gray (5G 8/1), and gray (5YR 6/1). Maximum clast size is >25 mm at the top of the core and 130 mm at the base. Bedding is poorly defined. Crude fining-and coarsening upward sequences are present.</p> <p>Apparent dip is about 10°.</p> <p>Minor lithologies: From Section 3, 63 cm to the CC a brownish black (5YR 2/1) and greenish black (5GY 2/1) cobble-bearing conglomerate fines upward into laminated and fine-grained dark bluish gray (5B 4/1) SANDSTONE and medium bluish gray (5B 5/1) SANDY CLAYSTONE (17% and 6% of the core, respectively).</p> <p>Numerous faults and micros shears deform and displace conglomerate clasts. The conglomerate matrix appears to have undergone variable hydrothermal alteration.</p> <p>The core has been moderately fractured by drilling.</p>
					R	$\rho = 45.0$ $\rho = 2.22$ $\rho = 2.46$	$\%CaCO_3 = 0.9$ $\%CaCO_3 = 0.7$		2		X		
									3		X		
									4		X		

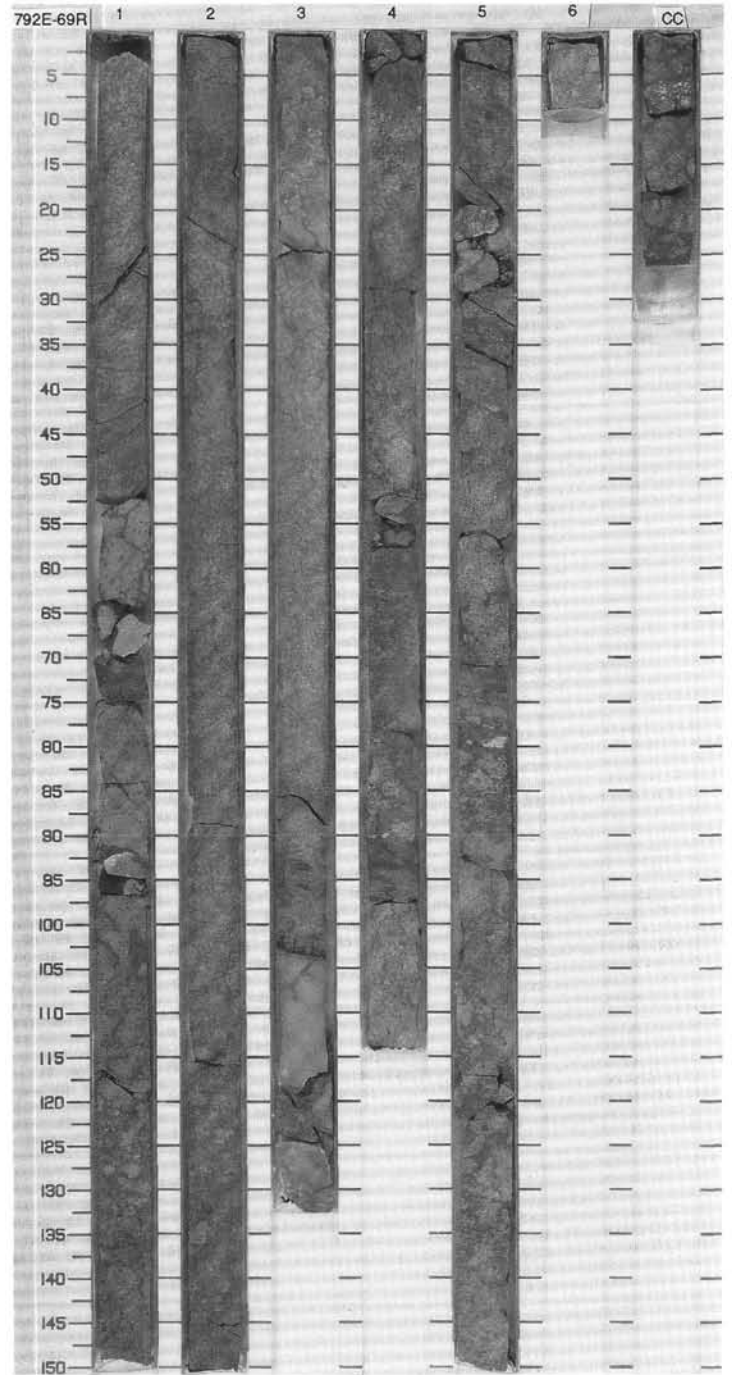
SITE 792 HOLE E CORE 68R CORED INTERVAL 780.9-790.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NAUPOSSILLS	RADIOLARIANS	DIATOMS									
B					N	$\rho = 25.0$ $\rho = 2.59$	$\%CaCO_3 = 19.1$		0.5 1		X		<p>CRYSTAL-VITRIC SANDSTONE</p> <p>Major lithology: The upper and middle 65% of the core is greenish gray (5G 5/1), dark gray (5GY 4/1), and greenish black (5G 2/1) CRYSTAL-VITRIC SANDSTONE. Some intervals are normally graded, others are planar laminated, and others contain scattered granules.</p> <p>Minor lithology: Section 1, 0-43 cm, consists of dark greenish gray (5G 4/1) VOLCANIC GRANULE-PEBBLE CONGLOMERATE with the same lithology as the bottom of Core 126 792E-67R. Its sand/granule/pebble ratio is 10/30/60, and andesite clasts are as large as 60 mm in diameter.</p> <p>There is a fault in Section 2, 106-116 cm, within which there is a red (2.5YR 5/6) clast of altered andesite, and two other black (N1) igneous clasts. Immediately beneath the fault (110-116 cm) is an interval of altered SANDSTONE, mottled in the colors dark greenish gray (5G 4/1) and reddish yellow (7.5YR 6/6). Section 2, 116-143 cm, is a zone of VITRIC SILTY CLAYSTONE and VITRIC SANDY MUDSTONE, hydrothermally altered to mottled very dark green (7.5 GY 3/2) and dark grayish blue (5BG 5/1) rock.</p> <p>Section 1 is moderately to highly disturbed by drilling.</p>
						$\rho = 29.0$ $\rho = 2.51$	$\%CaCO_3 = 0.3$		2		X		

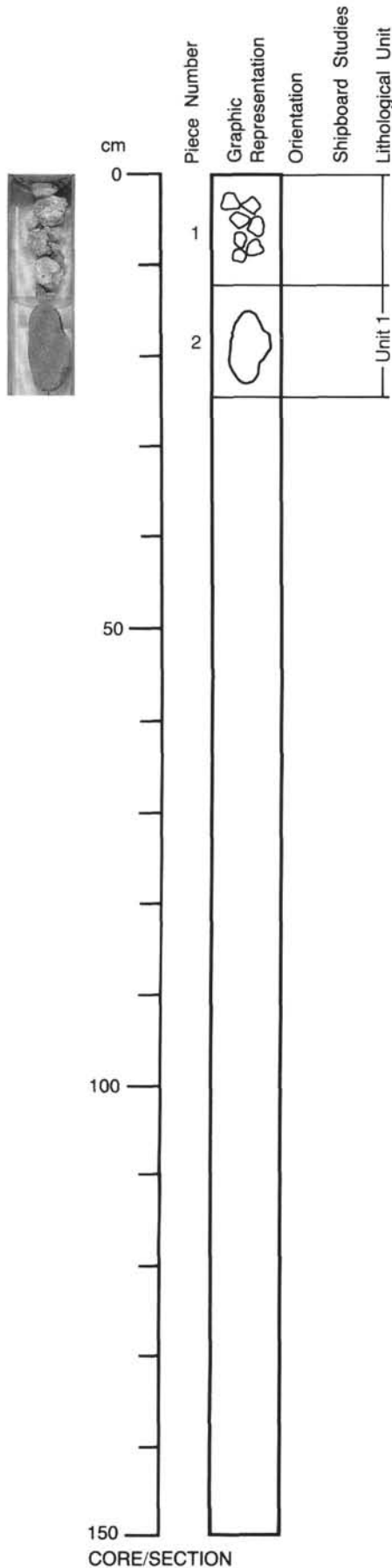


SITE 792 HOLE E CORE 69R CORED INTERVAL 790.6-800.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NAUPODSHELLS	RADIOLARIANS	DIATOMS										
									0.51.0 +2.15					<p>HYDROTHERMALLY-ALTERED VOLCANIC PEBBLE-GRANULE CONGLOMERATE AND OTHER VOLCANICLASTIC ROCKS OF UNCERTAIN GRAIN SIZE</p> <p>Major lithology: The entire core consists of HYDROTHERMALLY-ALTERED VOLCANIC PEBBLE-GRANULE CONGLOMERATE and other volcanoclastic rocks of uncertain grain size. The principal colors in the upper part of the core are very dark green (7.5 GY 3/2) and dark grayish blue (5BG 5/1). From Section 4, 96 cm, to the CC, light grayish blue (5BG 6/1) colors predominate over medium greenish gray (5G 5/1) shades. Grain sizes are indeterminate because most of the rock is severely altered pumice; only fragments of dacite and andesite retain some freshness and maintain the appearance of conglomerate in some intervals.</p> <p>Minor lithologies: In Section 1, 50 cm, is a layer of greenish black (5G 2.5/1) SILICIFIED CLAYSTONE or SILICIFIED SILTSTONE. Section 4, 76-96 cm, is a brecciated mixture of altered volcanoclastic rock and claystone clasts. Section 5, 75 cm, to the CC is also brecciated.</p> <p>The core is slightly fractured by drilling.</p>
								1						
								2						
								3						
								4						
								5						
								6						
								CC						



126-792E-70R-CC



Piece 1 : Sediment Unit V

See sedimentary visual core description.

UNIT 1: PORPHYRITIC ANDESITE

Piece 2

CONTACTS: None.

PHENOCRYSTS: Orthopyroxene pseudomorphs are sometimes mantled with clinopyroxene, some fresh orthopyroxene present.

Plagioclase - 35%; 0.2-5 mm; euhedral, zoned, glomeroporphyritic clots.

Clinopyroxene - 5%; 0.1-5 mm; euhedral, fresh.

Orthopyroxene - 10%; 0.1-5 mm; euhedral, 90% replaced by smectite, rimmed by clinopyroxene.

Magnetite - 1%; 0.1-0.5 mm; subhedral.

GROUNDMASS: Fine-grained altered glass with microphenocrysts of plagioclase and pyroxenes.

VESICLES: None.

COLOR: Medium light gray, N6.

STRUCTURE: Massive.

ALTERATION: Moderately altered, glass and partly altered orthopyroxene.

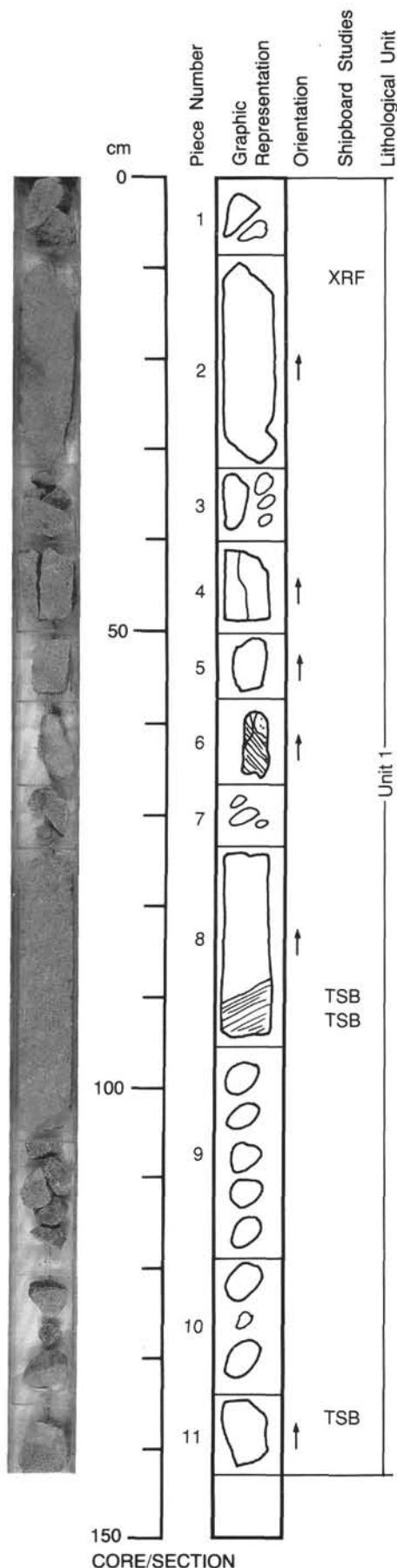
VEINS/FRACTURES: <1%; <1 mm; along fractures; celadonite and smectite veins.

ADDITIONAL COMMENTS: Xenoliths of plagioclase-orthopyroxene-clinopyroxene diabase and finer-grained andesite.

126-792E-71R-1

UNIT 1: PORPHYRITIC ANDESITE

Pieces 1-11



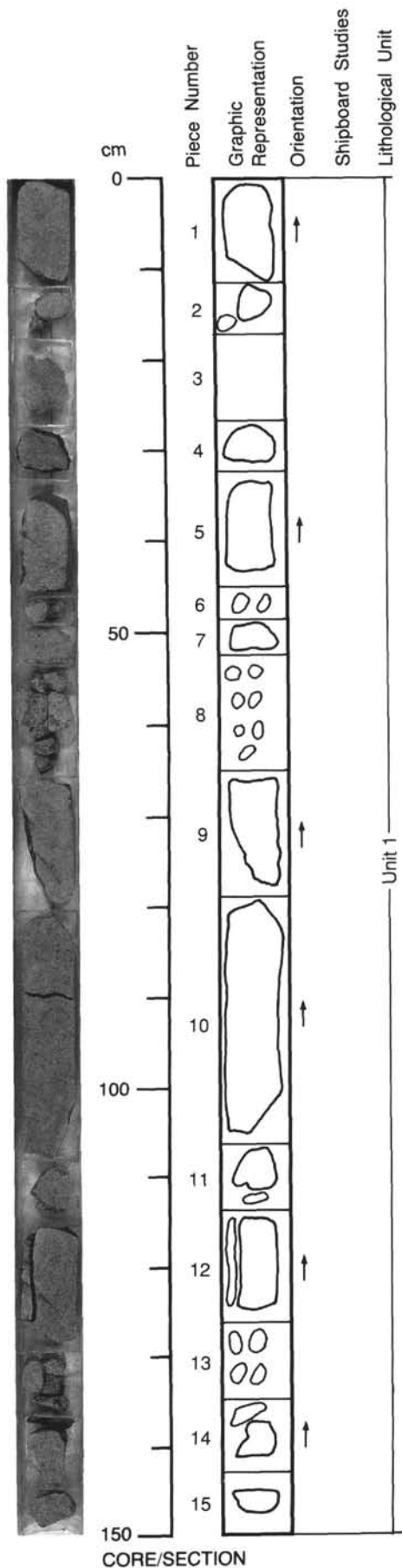
CONTACTS: None.
PHENOCRYSTS: Orthopyroxene pseudomorphs are sometimes mantled with clinopyroxene, some fresh orthopyroxene present.
 Plagioclase - 35%; 0.2-5 mm; euhedral, zoned, glomeroporphyritic clots.
 Clinopyroxene - 5%; 0.1-5 mm; euhedral, fresh.
 Orthopyroxene - 10%; 0.1-5 mm; euhedral, 90% replaced by smectite, rimmed by clinopyroxene.
 Magnetite - 1%; 0.1-0.5 mm; subhedral.
GROUNDMASS: Fine-grained altered glass with microphenocrysts of plagioclase and pyroxenes.
VESICLES: None.
COLOR: Medium light gray, N6.
STRUCTURE: Massive.
ALTERATION: Moderately altered, glass and partly altered orthopyroxene.
VEINS/FRACTURES: <1%; <1 mm; along fractures; celadonite and smectite veins.
ADDITIONAL COMMENTS: Xenoliths of plagioclase-orthopyroxene-clinopyroxene diabase and finer-grained andesite. Hyaloclastite layers in Pieces 6 (3 cm thick) and 8 (4 cm thick).

126-792E-71R-2

UNIT 1: PORPHYRITIC ANDESITE

Pieces 1-15

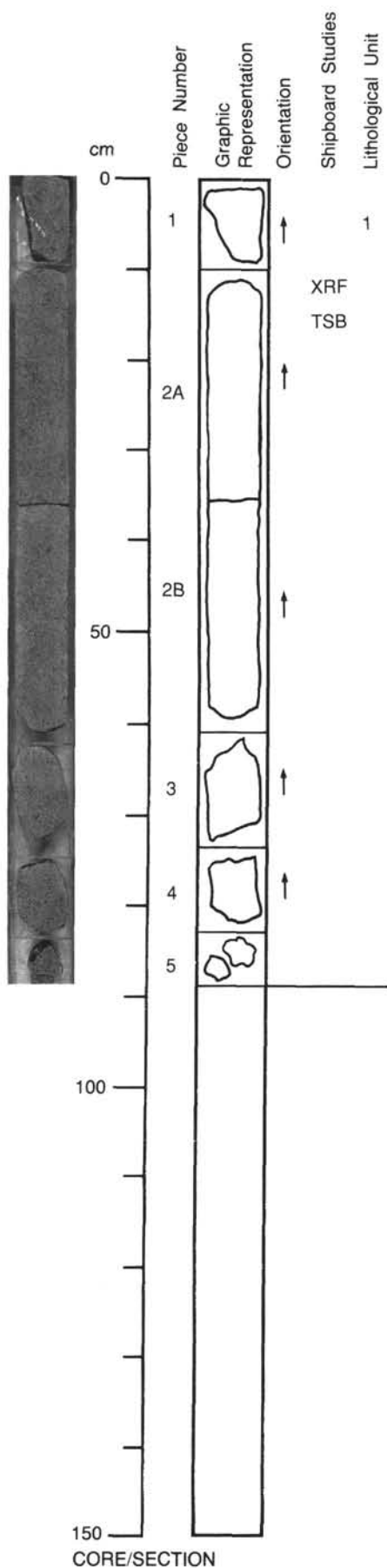
CONTACTS: None.
PHENOCRYSTS: Orthopyroxene pseudomorphs are sometimes mantled with clinopyroxene, some fresh orthopyroxene present.
 Plagioclase - 35%; 0.2-5 mm; euhedral, zoned, glomeroporphyritic clots
 Clinopyroxene - 5%; 0.1-5 mm; euhedral, fresh.
 Orthopyroxene - 10%; 0.1-5 mm; euhedral, 90% replaced by smectite, rimmed by clinopyroxene.
 Magnetite - 1%; 0.1-0.5 mm; subhedral.
GROUNDMASS: Fine-grained altered glass with microphenocrysts of plagioclase and pyroxenes.
VESICLES: None.
COLOR: Medium light gray, N6.
STRUCTURE: Massive.
ALTERATION: Moderately altered, glass and partly altered orthopyroxene.
VEINS/FRACTURES: <1%; <1 mm; along fractures; celadonite and smectite veins.
ADDITIONAL COMMENTS: Xenoliths of plagioclase-orthopyroxene-clinopyroxene diabase and finer-grained andesite.



126-792E-71R-3

UNIT 1: PORPHYRITIC ANDESITE

Pieces 1-5



CONTACTS: None.

PHENOCRYSTS: Orthopyroxene pseudomorphs are sometimes mantled with clinopyroxene, some fresh orthopyroxene present.

Plagioclase - 35%; 0.2-5 mm; euhedral, zoned, glomeroporphyritic clots.

Clinopyroxene - 5%; 0.1-5 mm; euhedral, fresh.

Orthopyroxene - 10%; 0.1-5 mm; euhedral, 90% replaced by smectite, rimmed by clinopyroxene.

Magnetite - 1%; 0.1-0.5 mm; subhedral.

GROUNDMASS: Fine-grained altered glass with microphenocrysts of plagioclase and pyroxenes.

VESICLES: None.

COLOR: Medium light gray, N6.

STRUCTURE: Massive.

ALTERATION: Moderately altered, glass and partly altered orthopyroxene.

VEINS/FRACTURES: <1%; <1 mm; along fractures; celadonite and smectite veins.

ADDITIONAL COMMENTS: Xenoliths of plagioclase-orthopyroxene-clinopyroxene diabase and finer-grained andesite.

126-792E-72R-1

UNIT 1: PORPHYRITIC ANDESITE

Pieces 1-14

CONTACTS: None.

PHENOCRYSTS: Orthopyroxene pseudomorphs are sometimes mantled with clinopyroxene, some fresh orthopyroxene present.

Plagioclase - 35%; 0.2-5 mm; euhedral, zoned, glomeroporphyritic clots.

Clinopyroxene - 5%; 0.1-5 mm; euhedral, fresh.

Orthopyroxene - 10%; 0.1-5 mm; euhedral, 90% replaced by smectite, rimmed by clinopyroxene.

Magnetite - 1%; 0.1-0.5 mm; subhedral.

GROUNDMASS: Fine-grained altered glass with microphenocrysts of plagioclase and pyroxenes.

VESICLES: None.

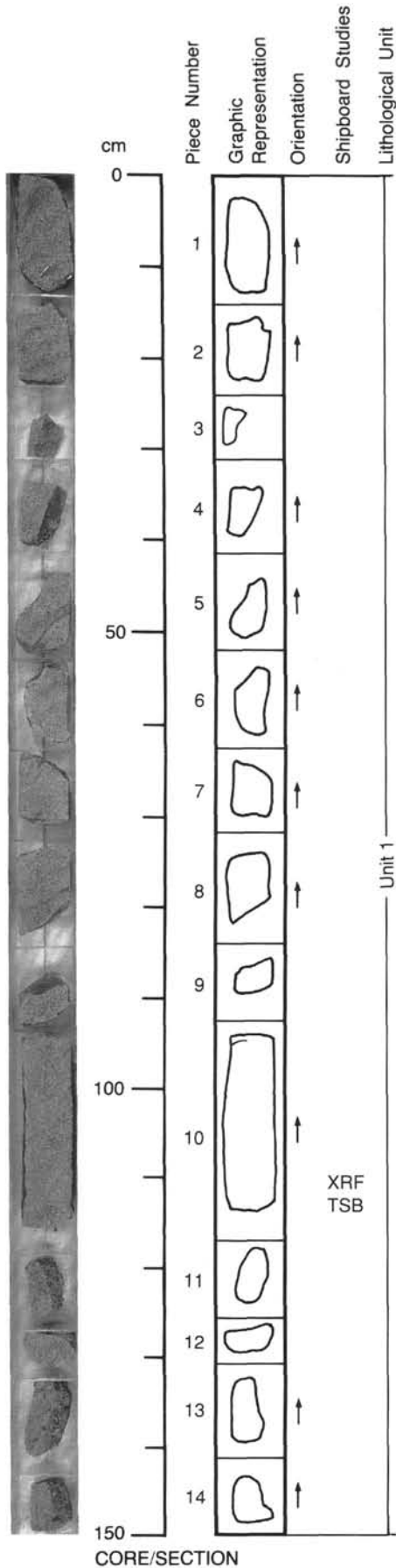
COLOR: Medium light gray, N6.

STRUCTURE: Massive.

ALTERATION: Moderately altered, glass and partly altered orthopyroxene.

VEINS/FRACTURES: <1%; <1 mm; along fractures; celadonite and smectite veins.

ADDITIONAL COMMENTS: Xenoliths of plagioclase-orthopyroxene-clinopyroxene diabase and finer-grained andesite.

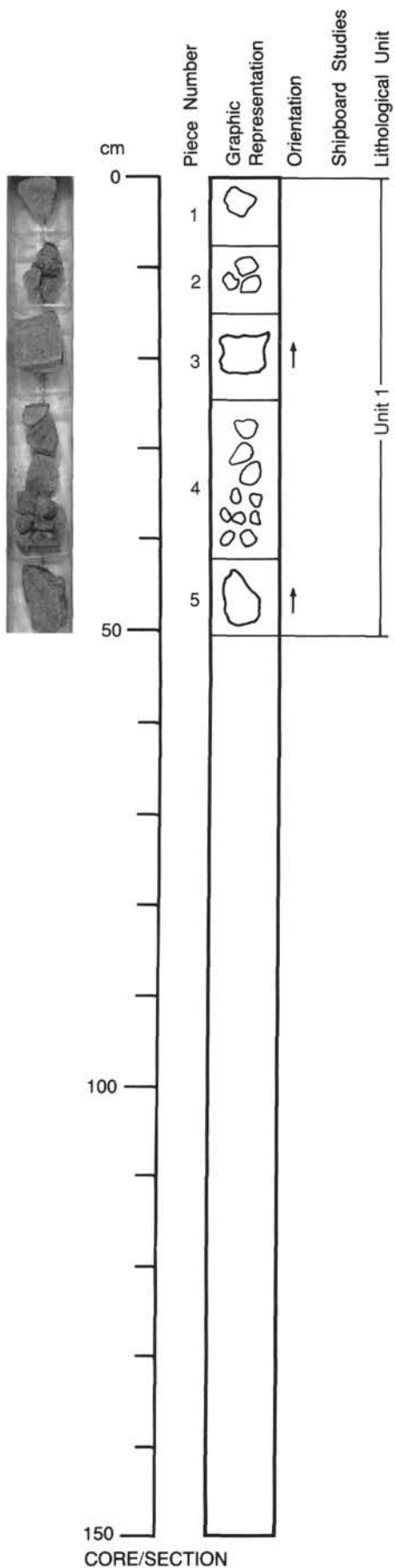


126-792E-72R-2

UNIT 1: PORPHYRITIC ANDESITE

Pieces 1-5

CONTACTS: None.
PHENOCRYSTS: Orthopyroxene pseudomorphs are sometimes mantled with clinopyroxene, some fresh orthopyroxene present.
 Plagioclase - 35%; 0.2-5 mm; euhedral, zoned, glomeroporphyritic clots.
 Clinopyroxene - 5%; 0.1-5 mm; euhedral, fresh.
 Orthopyroxene - 10%; 0.1-5 mm; euhedral, 90% replaced by smectite, rimmed by clinopyroxene.
 Magnetite - 1%; 0.1-0.5 mm; subhedral.
GROUNDMASS: Fine-grained altered glass with microphenocrysts of plagioclase and pyroxenes.
VESICLES: None.
COLOR: Medium light gray, N6.
STRUCTURE: Massive.
ALTERATION: Moderately altered, glass and partly altered orthopyroxene.
VEINS/FRACTURES: <1%; <1 mm; along fractures; celadonite and smectite veins.
ADDITIONAL COMMENTS: Xenoliths of plagioclase-orthopyroxene-clinopyroxene diabase and finer-grained andesite.



126-792E-73R-1

UNIT 1: PORPHYRITIC ANDESITE

Pieces 1-6

CONTACTS: None.
PHENOCRYSTS:

- Plagioclase - 35%; 0.2-5 mm; euhedral, zoned.
- Clinopyroxene - 5%; 0.2-5 mm; euhedral fresh.
- Orthopyroxene - 5%; 0.2-5 mm; euhedral, replaced by smectite.
- Magnetite - 1%; 0.1-0.5 mm; subhedral.
- Quartz - 0.5%; 0.1-0.4 mm; anhedral rounded.

GROUNDMASS: Fine-grained altered glass with microphenocrysts of pyroxenes and plagioclase laths.

VESICLES: None.

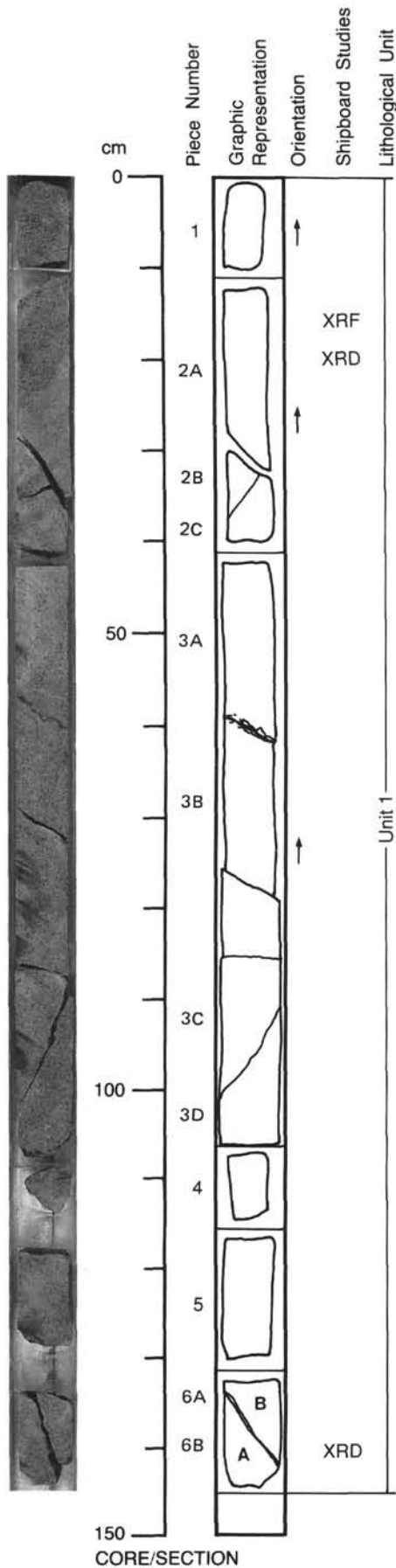
COLOR: Light medium gray, N6.

STRUCTURE: Massive.

ALTERATION: Moderately altered glass and partly altered orthopyroxene.

VEINS/FRACTURES: <1%; 1 mm; along fractures; celadonite and smectite veins.

ADDITIONAL COMMENTS: 5-mm-thick chlorite vein in Pieces 6A and B.



CORE/SECTION

126-792E-73R-2

UNIT 1: PORPHYRITIC ANDESITE

Pieces 1-13

CONTACTS: None.

PHENOCRYSTS:

- Plagioclase - 35%; 0.2-5 mm; euhedral, zoned.
- Clinopyroxene - 5%; 0.2-5 mm; euhedral fresh.
- Orthopyroxene - 5%; 0.2-5 mm; euhedral, replaced by smectite.
- Magnetite - 1%; 0.1-0.5 mm; subhedral.
- Quartz - 0.5%; 0.1-0.4 mm; anhedral rounded.

GROUNDMASS: Fine-grained altered glass with microphenocrysts of pyroxenes and plagioclase laths.

VESICLES: None.

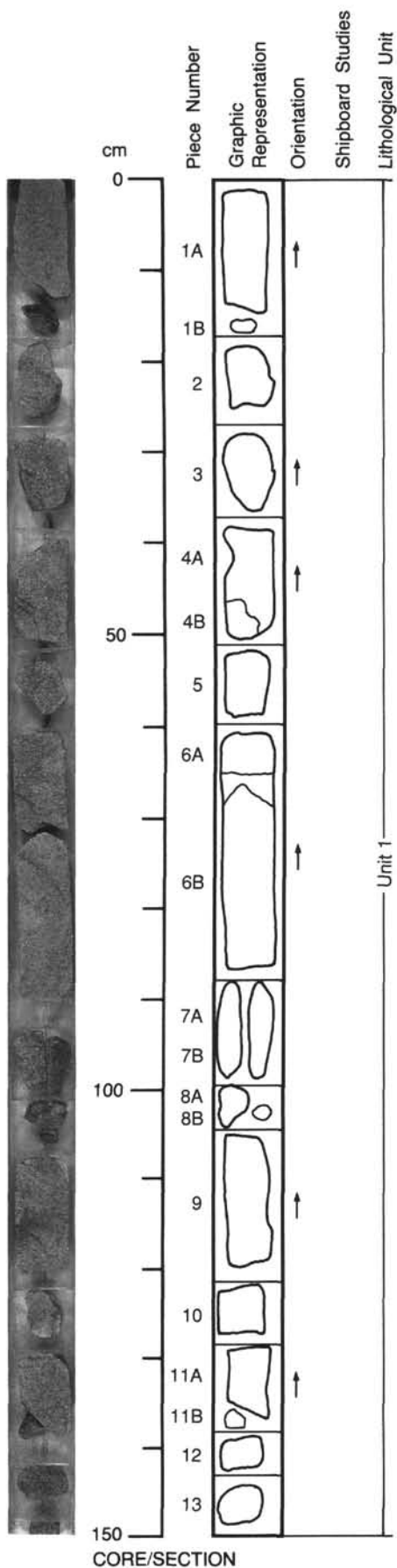
COLOR: Light medium gray, N6.

STRUCTURE: Massive.

ALTERATION: Moderately altered glass and partly altered orthopyroxene.

VEINS/FRACTURES: <1%; 1 mm; along fractures; celadonite and smectite veins.

ADDITIONAL COMMENTS: 8 cm of breccia-hyaloclastite with contact to flow beneath (Piece 6A).



CORE/SECTION

126-792E-74R-1

UNIT 1: PORPHYRITIC ANDESITE

Pieces 1-3

CONTACTS: None.

PHENOCRYSTS:

- Plagioclase - 35%; 0.2-5 mm; euhedral, zoned.
- Clinopyroxene - 5%; 0.2-5 mm; euhedral fresh.
- Orthopyroxene - 5%; 0.2-5 mm; euhedral, replaced by smectite.
- Magnetite - 1%; 0.1-0.5 mm; subhedral.
- Quartz - 0.5%; 0.1-0.4 mm; anhedral rounded.

GROUNDMASS: Fine-grained altered glass with microphenocrysts of pyroxenes and plagioclase laths.

VESICLES: None.

COLOR: Light medium gray, N6.

STRUCTURE: Massive.

ALTERATION: Moderately altered glass and partly altered orthopyroxene.

VEINS/FRACTURES: None.

UNIT 2: ANDESITIC HYALOCLASTITE BRECCIA

Pieces 4-9

CONTACTS: In Piece 9 at the base there is a clear contact to a massive andesite lava. In the basal 3 mm an accumulation of broken ilmenite grains is present.

PHENOCRYSTS: The rock contains plagioclase-orthopyroxene-clinopyroxene andesite and plagioclase-clinopyroxene-quartz-dacite fragments in a hydrothermally-altered glassy matrix.

Plagioclase - 30%; 0.1-3 mm; euhedral, zoned, clustered.

Clinopyroxene - 3%; 0.2-2 mm; subeuhedral.

Opaques - 1%; 0.1-0.5 mm; subhedral, 8% in basal layer.

Orthopyroxene - 1%; 0.1-3 mm; subhedral, altered to smectite.

GROUNDMASS: Fine grained, altered into smectite and chlorite.

VESICLES: None.

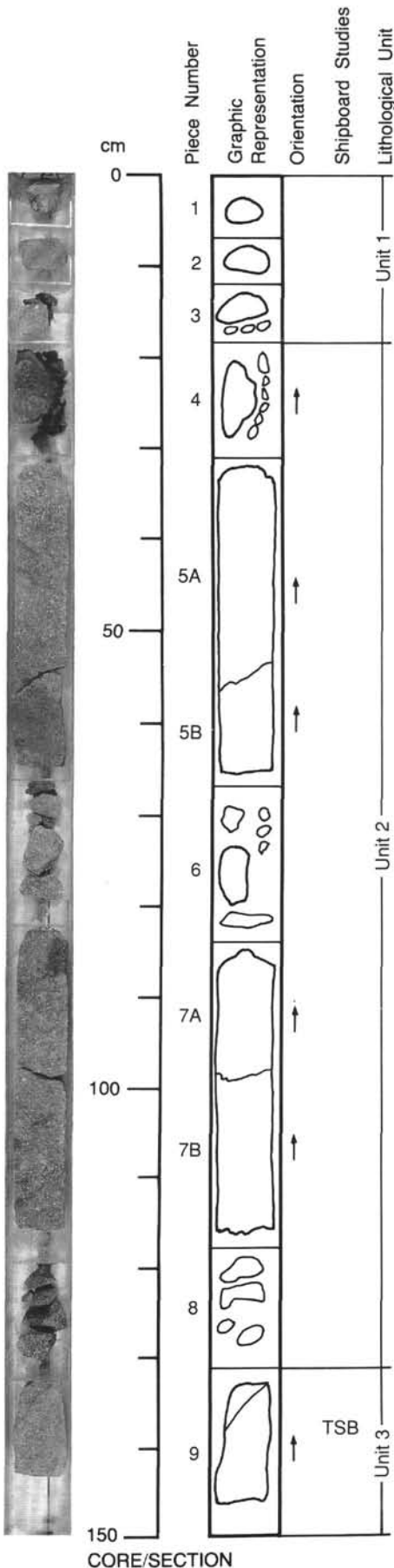
COLOR: Grayish green, 10GY 5/2.

STRUCTURE: Glassy fragmental rock with clast and matrix; fragmented and broken crystals.

ALTERATION: Glass and orthopyroxene are altered.

VEINS/FRACTURES: None.

ADDITIONAL COMMENTS: Quartz phenocrysts in xenoliths are rounded and partly resorbed.

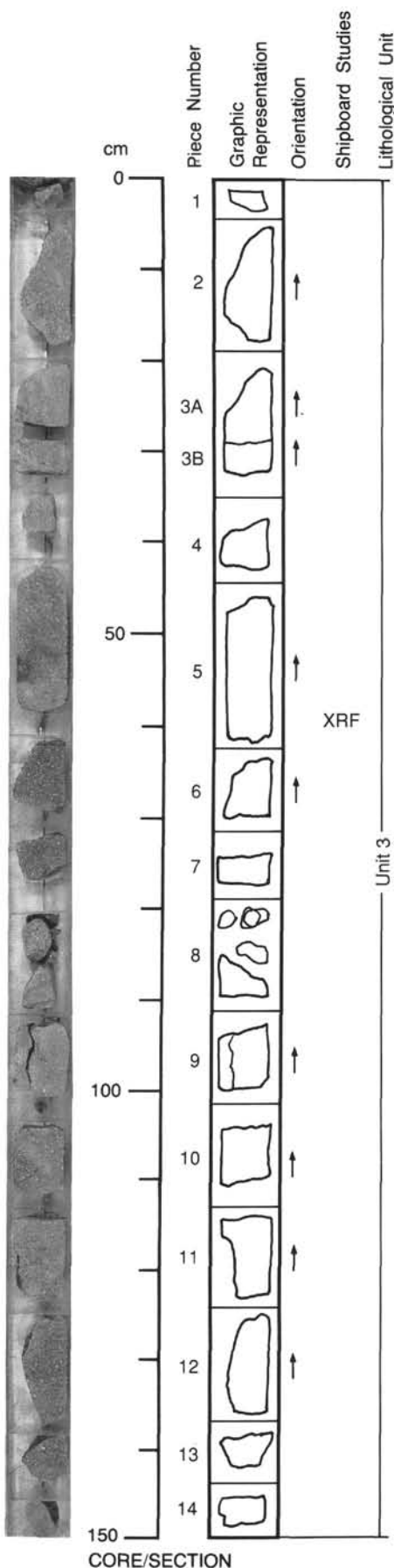


CORE/SECTION

126-792E-74R-2

UNIT 3: PORPHYRITIC ANDESITE

Pieces 1-14



CONTACTS: None.

PHENOCRYSTS:

- Plagioclase - 35%; 0.2-5 mm; euhedral, zoned.
- Clinopyroxene - 5%; 0.2-5 mm; euhedral fresh.
- Orthopyroxene - 5%; 0.2-5 mm; euhedral, replaced by smectite.
- Magnetite - 1%; 0.1-0.5 mm; subhedral.
- Quartz - 0.5%; 0.1-0.4 mm; anhedral rounded.

GROUNDMASS: Fine-grained altered glass with microphenocrysts of pyroxenes and plagioclase laths.

VESICLES: None.

COLOR: Light medium gray, N6.

STRUCTURE: Massive.

ALTERATION: Moderately altered glass and partly altered orthopyroxene.

VEINS/FRACTURES: <1%; 1 mm; along fractures; celadonite and smectite veins.

ADDITIONAL COMMENTS: 2-3 fragments of hyaloclastite material in Piece 8.

Hydrothermal alteration along veins and fractures in Pieces 9 and 11.

126-792E-75R-1

UNIT 3: PORPHYRITIC ANDESITE

Pieces 1-13

CONTACTS: None.

PHENOCRYSTS:

Plagioclase - 35%; 0.2-5 mm; euhedral, zoned.

Clinopyroxene - 5%; 0.2-5 mm; euhedral fresh.

Orthopyroxene - 5%; 0.2-5 mm; euhedral, replaced by smectite.

Magnetite - 1%; 0.1-0.5 mm; subhedral.

Quartz - 0.5%; 0.1-0.4 mm; anhedral rounded.

GROUNDMASS: Fine-grained altered glass with microphenocrysts of pyroxenes and plagioclase laths.

VESICLES: None.

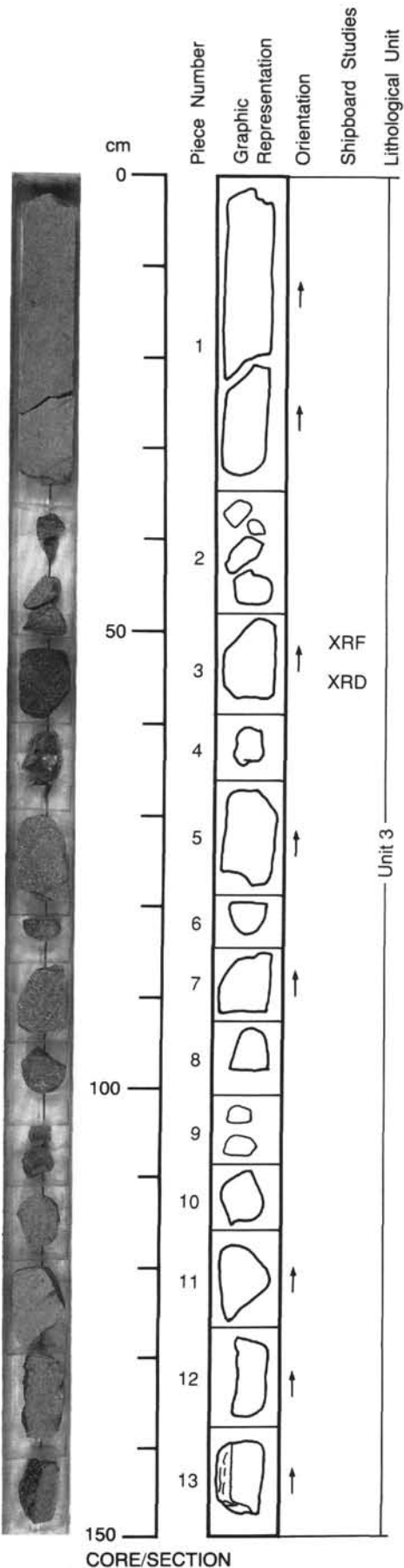
COLOR: Light medium gray, N6.

STRUCTURE: Massive.

ALTERATION: Moderately altered glass and partly altered orthopyroxene.

VEINS/FRACTURES: <1%; 1 mm; along fractures; celadonite and smectite veins.

ADDITIONAL COMMENTS: Interlayered green hyaloclastite in Piece 4.

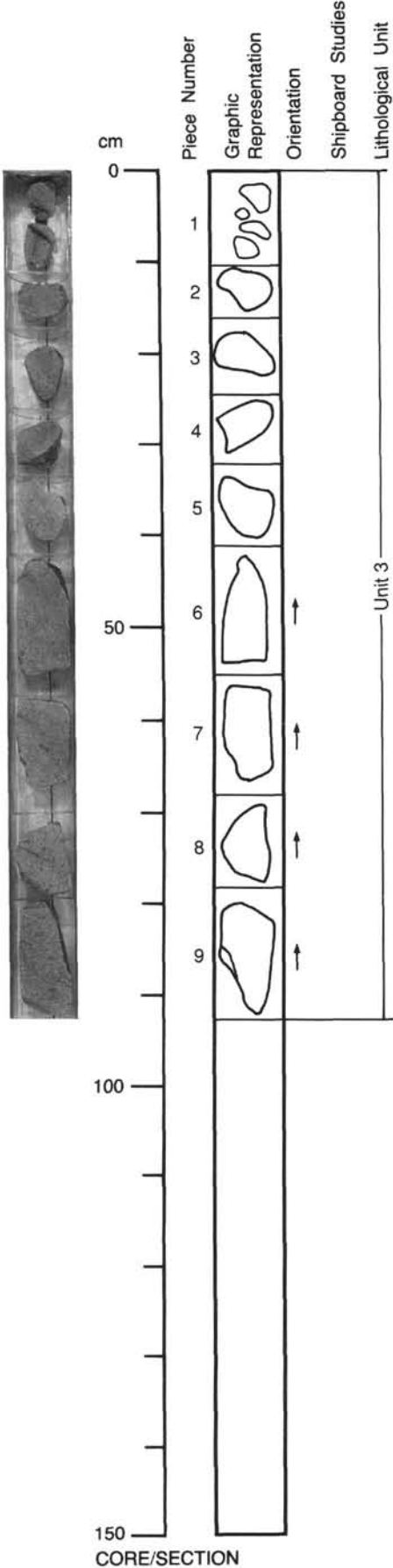


126-792E-75R-2

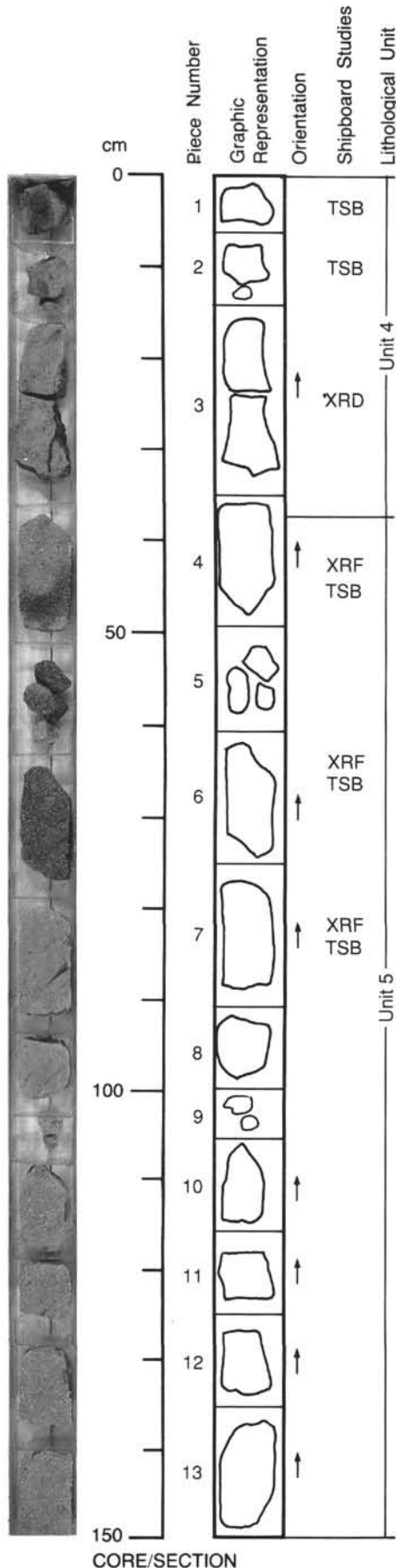
UNIT 3: PORPHYRITIC ANDESITE

Pieces 1-9

CONTACTS: None.
PHENOCRYSTS:
 Plagioclase - 35%; 0.2-5 mm; euhedral, zoned.
 Clinopyroxene - 5%; 0.2-5 mm; euhedral fresh.
 Orthopyroxene - 5%; 0.2-5 mm; euhedral, replaced by smectite.
 Magnetite - 1%; 0.1-0.5 mm; subhedral.
 Quartz - 0.5%; 0.1-0.4 mm; anhedral rounded.
GROUNDMASS: Fine-grained altered glass with microphenocrysts of pyroxenes and plagioclase laths.
VESICLES: None.
COLOR: Light medium gray, N6.
STRUCTURE: Massive.
ALTERATION: Moderately altered glass and partly altered orthopyroxene.
VEINS/FRACTURES: <1%; 1 mm; along fractures; celadonite and smectite veins.



126-792E-76R-1



UNIT 4: VOLCANIC BRECCIA

Pieces 1-4

CONTACTS: Good visible contact with massive andesite lava at top of Piece 4.
PHENOCRYSTS: All the phenocrysts are altered in the clasts but only orthopyroxene is altered in the matrix.
 Plagioclase - 35%; 0.2-4 mm; euhedral, glomeroporphyritic clots fresh in the clasts but altered to chlorite in the matrix.
 Clinopyroxene - 3%; 0.2-4 mm; euhedral fresh in clasts, replaced by prehnite and smectite in matrix.
 Orthopyroxene - 1%; 0.2-3 mm; euhedral, replaced by smectite.
 Magnetite - 1%; 0.1-0.2 mm.
GROUNDMASS: Fine-grained smectite and chlorite (with prehnite) in matrix.
VESICLES: 10%; 0.2 mm; round; even; vesicles only present in the clasts.
COLOR: Greenish gray matrix (5G 6/1) and dark gray clasts (N3).
STRUCTURE: Brecciated with angular to rounded gray clasts in a green matrix.
ALTERATION: Moderately altered glass and olivine, replaced by smectite and chlorite.
VEINS/FRACTURES: None.

UNIT 5: PORPHYRITIC ANDESITE

Pieces 4-13

CONTACTS: None.
PHENOCRYSTS:
 Plagioclase - 35%; 0.2-4 mm; sub-euhedral, zoned and clustered.
 Orthopyroxene - 7%; 0.1-2 mm; euhedral, altered to smectite.
 Clinopyroxene - 3%; 0.1-2 mm; euhedral fresh.
 Magnetite - 1%; 0.1-0.2 mm; sub-euhedral.
 Quartz - 1%; 0.1-0.2 mm; anhedral rounded.
GROUNDMASS: Fine-grained altered glass with microphenocrysts of plagioclase, pyroxenes and magnetite.
VESICLES: None.
COLOR: Light medium gray, N6.
STRUCTURE: Massive.
ALTERATION: Moderately altered glass and orthopyroxene.
VEINS/FRACTURES: <1%; 1 mm; along fractures; celadonite and smectite veins.

126-792E-76R-2

UNIT 5: PORPHYRITIC ANDESITE

Pieces 1-4

CONTACTS: None.

PHENOCRYSTS:

- Plagioclase - 35%; 0.2-4 mm; sub-euhedral, zoned and clustered.
- Orthopyroxene - 7%; 0.1-2 mm; euhedral, altered to smectite.
- Clinopyroxene - 3%; 0.1-2 mm; euhedral fresh.
- Magnetite - 1%; 0.1-0.2 mm; sub-euhedral.
- Quartz - 1%; 0.1-0.2 mm; anhedral rounded.

GROUNDMASS: Fine-grained altered glass with microphenocrysts of plagioclase, pyroxenes and magnetite.

VESICLES: None.

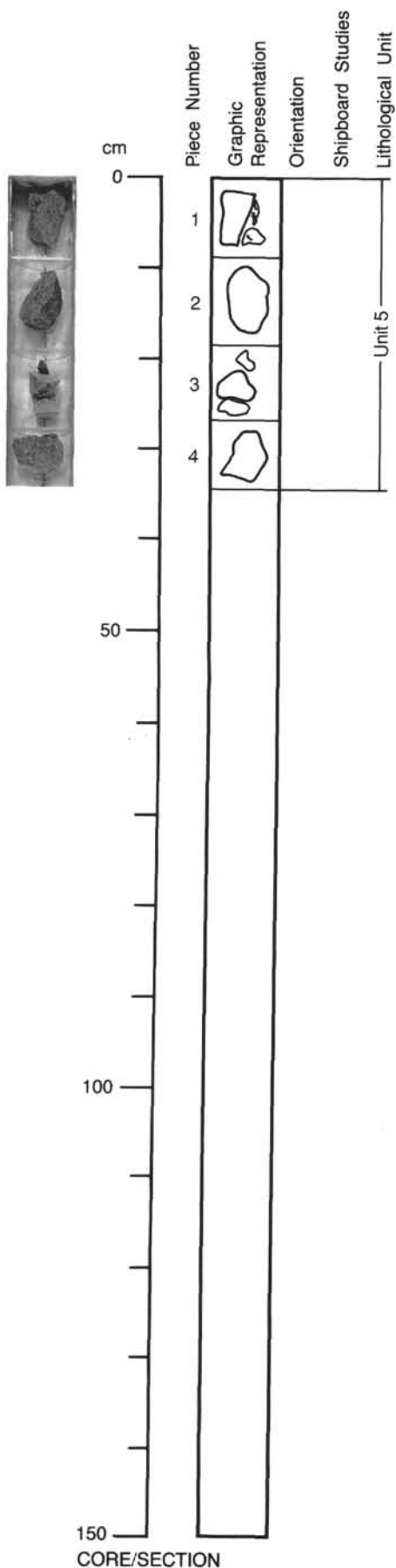
COLOR: Light medium gray, N6.

STRUCTURE: Massive.

ALTERATION: Moderately altered glass and orthopyroxene.

VEINS/FRACTURES: <1%; 1 mm; along fractures; celadonite and smectite veins.

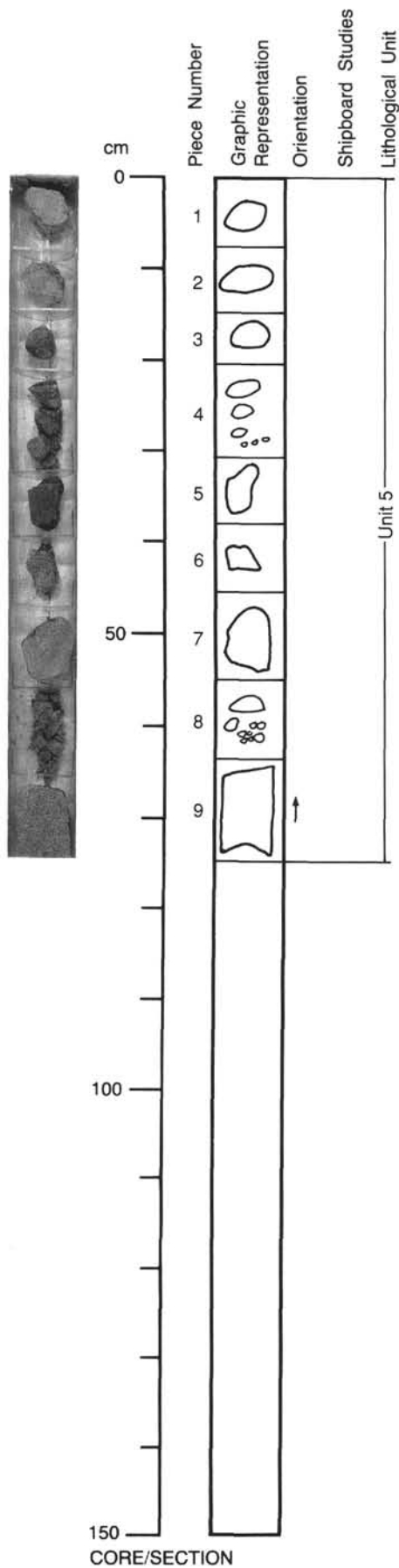
ADDITIONAL COMMENTS: Contact with hyaloclastite in Piece 4. Layer 0.5 cm thick.



126-792E-77R-1

UNIT 5: PORPHYRITIC ANDESITE

Pieces 1-9



CONTACTS: None.

PHENOCRYSTS:

- Plagioclase - 35%; 0.2-4 mm; sub-euhedral, zoned and clustered.
- Orthopyroxene - 7%; 0.1-2 mm; euhedral, altered to smectite.
- Clinopyroxene - 3%; 0.1-2 mm; euhedral fresh.
- Magnetite - 1%; 0.1-0.2 mm; sub-euhedral.
- Quartz - 1%; 0.1-0.2 mm; anhedral rounded.

GROUNDMASS: Fine-grained altered glass with microphenocrysts of plagioclase, pyroxenes and magnetite.

VESICLES: None.

COLOR: Light medium gray, N6.

STRUCTURE: Massive.

ALTERATION: Moderately altered glass and orthopyroxene.

VEINS/FRACTURES: <1%; 1 mm; along fractures; celadonite and smectite veins.

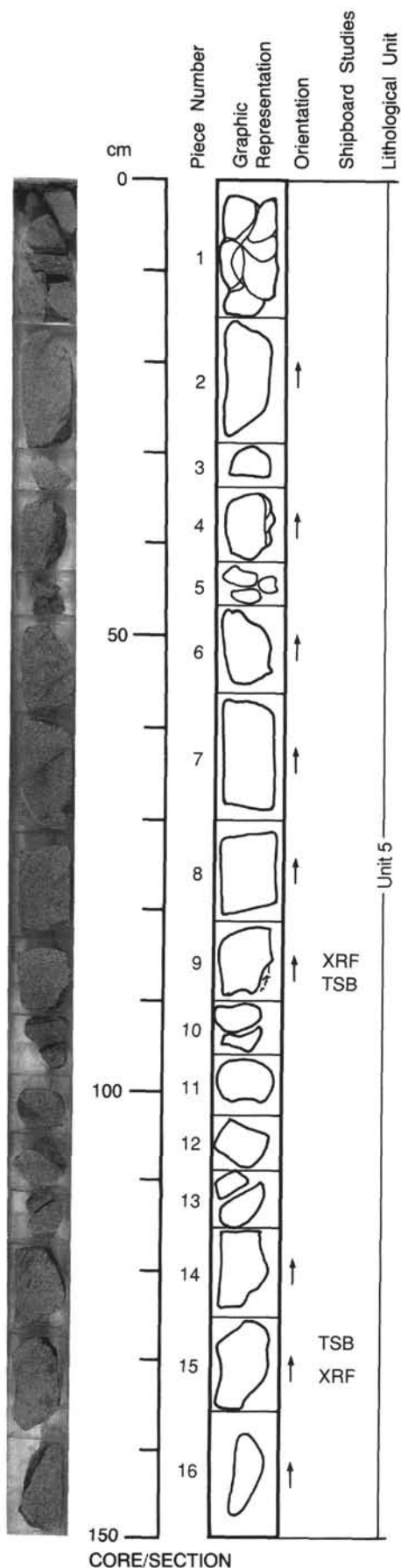
ADDITIONAL COMMENTS: Hyaloclastite layers or hydrothermal alteration in Pieces 4 and 8.

126-792E-78R-1

UNIT 5: PORPHYRITIC ANDESITE

Pieces 1-16

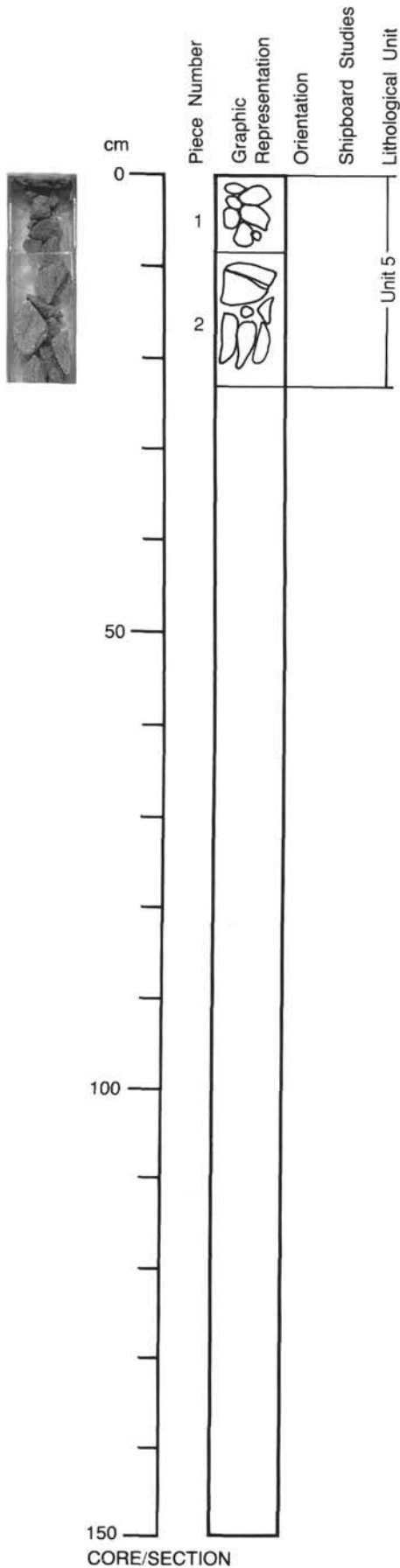
CONTACTS: None.
PHENOCRYSTS:
 Plagioclase - 35%; 0.2-4 mm; sub-euhedral, zoned and clustered.
 Orthopyroxene - 7%; 0.1-2 mm; euhedral, altered to smectite.
 Clinopyroxene - 3%; 0.1-2 mm; euhedral fresh.
 Magnetite - 1%; 0.1-0.2 mm; sub-euhedral.
 Quartz - 1%; 0.1-0.2 mm; anhedral rounded.
GROUNDMASS: Fine-grained altered glass with microphenocrysts of plagioclase, pyroxenes and magnetite.
VESICLES: None.
COLOR: Light medium gray, N6.
STRUCTURE: Massive.
ALTERATION: Moderately altered glass and orthopyroxene.
VEINS/FRACTURES: <1%; 1 mm; along fractures; celadonite and smectite veins.



126-792E-78R-2

UNIT 5: PORPHYRITIC ANDESITE

Pieces 1-2



CONTACTS: None.

PHENOCRYSTS:

- Plagioclase - 35%; 0.2-4 mm; sub-euhedral, zoned and clustered.
- Orthopyroxene - 7%; 0.1-2 mm; euhedral, altered to smectite.
- Clinopyroxene - 3%; 0.1-2 mm; euhedral fresh.
- Magnetite - 1%; 0.1-0.2 mm; sub-euhedral.
- Quartz - 1%; 0.1-0.2 mm; anhedral rounded.

GROUNDMASS: Fine-grained altered glass with microphenocrysts of plagioclase, pyroxenes and magnetite.

VESICLES: None.

COLOR: Light medium gray, N6.

STRUCTURE: Massive.

ALTERATION: Moderately altered glass and orthopyroxene.

VEINS/FRACTURES: <1%; 1 mm; along fractures; celadonite and smectite veins.

126-792E-40R-06 (55-57 cm)

OBSERVER: LTP

WHERE SAMPLED: Unit 5

ROCK NAME: Clinopyroxene-plagioclase andesite

GRAIN SIZE: Fine

TEXTURE: Porphyritic-vesicular

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	N/A	10	2		N/A	Zoned, fresh.
Clinopyroxene	N/A	5	4		N/A	Fresh.
GROUNDMASS						
N/A	N/A	N/A	N/A		N/A	85% vesicular groundmass.
SECONDARY MINERALOGY						
Clays	PERCENT	REPLACING/FILLING				COMMENTS
					Smectites filling up.	
VESICLES/CAVITIES						
Vesicles	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE	COMMENTS
	10		</=0.5		Rounded	Filled with smectite.

COMMENTS: Clasts (up to 8 mm) of clinopyroxene-plagioclase andesite. These clasts differ mainly on the basis of the groundmass which can be vesicular, or fine grained and rich in plagioclases microlites, sometimes flow aligned. Clinopyroxene and plagioclase clots. No piece # given.

126-792E-41R-01 (128-130 cm)

OBSERVER: LTP

WHERE SAMPLED: Unit 5 / sedimentologists

ROCK NAME: Olivine-plagioclase basalt

GRAIN SIZE: Fine

TEXTURE: Porphyritic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Olivine	N/A	2	2		N/A	Pseudomorphs of smectites.
Plagioclase	N/A	8	3		N/A	
GROUNDMASS						
Plagioclase	N/A	N/A	N/A		N/A	Glass altered in smectites.
VESICLES/CAVITIES						
Vesicles	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE	
	0					

COMMENTS: Clast in a volcanoclastic sandstone? other clasts: clinopyroxene-plagioclase andesite, volcanic glass, pumices, clinopyroxene and plagioclase crystals. Cement: smectites and opal. No piece # given.

126-792E-41R-02 (24-26 cm)

OBSERVER: LTP

WHERE SAMPLED: Unit 5

ROCK NAME: Clinopyroxene-plagioclase andesite

GRAIN SIZE: Fine

TEXTURE: Porphyritic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
N/A	N/A	N/A	N/A		N/A	
VESICLES/CAVITIES						
Vesicles	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE	
	0					

COMMENTS: Clasts in a volcanoclastic rocks. Plagioclase and clinopyroxene clots. Perhaps sediments. No piece # given.

SITE 792

126-792E-42R-05 (116-119 cm)

OBSERVER: LTP

WHERE SAMPLED: Unit 5 (sedimentologists)

ROCK NAME: Plagioclase-clinopyroxene andesite

GRAIN SIZE: Fine

TEXTURE: Porphyritic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	N/A	15	</=2		Euhedral	Fresh-zoned.
Clinopyroxene	N/A	5	</=4		Euhedral	Zoned.
Orthopyroxene	N/A	Trace	N/A		N/A	Pseudomorphous.
Magnetite	N/A	N/A	N/A		N/A	Clustered with small pyroxenes.
GROUNDMASS						
N/A	N/A	N/A	N/A		N/A	80% groundmass.

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

COMMENTS: Clasts in a volcaniclastic sandstone: all these clasts are formed of clinopyroxene-plagioclase andesite. The only difference is in the groundmass which may be rich in flow aligned or more vesicular plagioclase microlites. Sediment clast: chlorite and epidote(?). Glass fragments-pumice and crystals (pyroxene + clinopyroxene) entire or broken. Matrix-opal cement. No piece # given.

126-792E-47R-01 (20-21 cm)

OBSERVER: LTP

WHERE SAMPLED: Unit 5 (sedimentologist)

ROCK NAME: Clinopyroxene-plagioclase andesite

GRAIN SIZE: Fine

TEXTURE: Porphyritic-vesicular

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	0	20	</=4		Euhedral	Pseudomorphosed in smectites and zeolites.
Clinopyroxene	0	1	</=1		Subhedral	Altered.
GROUNDMASS						
Plagioclase	N/A	N/A	0.1		N/A	Altered.
Altered glass	N/A	N/A	N/A		N/A	
SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING		COMMENTS		
Clays	100					

VESICLES/CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	30		3	Calcite, zeolites	Elongated

COMMENTS: Clinopyroxene-plagioclase andesitic clast in a pebbly granule conglomerate. Pumice fragments. Plagioclase-clinopyroxene crystals. Matrix contains zeolites. No piece # given.

126-792E-47R-01 (108-110 cm)

OBSERVER: LTP

WHERE SAMPLED: Unit 5

ROCK NAME: Clinopyroxene-basalt or andesite

GRAIN SIZE: Fine

TEXTURE: Porphyritic-vesicular

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Clinopyroxene	N/A	1	</=2		Euhedral	Fresh exsolution along cleavages.
Plagioclase	N/A	N/A	N/A		Euhedral	Replaced by zeolites.
Orthopyroxene	N/A	5	5		N/A	Pseudomorphs of replaced smectites.
GROUNDMASS						
N/A	N/A	N/A	N/A		N/A	60% highly vesicular groundmass.
SECONDARY MINERALOGY						
PERCENT		REPLACING/FILLING				COMMENTS
Clays						Smectites filling up small vesicles.
Zeolites						Filling big elongated vesicles.

VESICLES/CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	30		1 - 5	Smectites, zeolites	Rounded, elongated

COMMENTS: Clasts in a lapilli-tuff? are pebbly granule conglomerate. Broken and or complete crystals plagioclase, clinopyroxene, and quartz. Matrix is probably formed of zeolites. No piece # given.

126-792E-51R-04 (21-23 cm)

OBSERVER: LTP

WHERE SAMPLED:

ROCK NAME: Clinopyroxene-olivine-plagioclase basalt

GRAIN SIZE: Fine

TEXTURE: Porphyritic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Olivine	6	N/A	</=5		Euhedral	Pseudomorphs of smectite, some crystals remain fresh.
Plagioclase	28	N/A	</=4		Euhedral	Fresh, including clinopyroxene.
Clinopyroxene	6	N/A	</=3		Euhedral	Partly altered.
GROUNDMASS						
Opaques	N/A	N/A	</=0.1		N/A	Glass is completely replaced by hydrated cryptocrystalline isotropic material.
Olivine	N/A	N/A	</=0.5		N/A	
Plagioclase	N/A	N/A	</=0.5		N/A	
SECONDARY MINERALOGY						
PERCENT		REPLACING/FILLING				COMMENTS
Clays						Smectites from alteration of olivine and clinopyroxene fills vesicles.

VESICLES/CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	3		~4-5	Smectites	Irregular

COMMENTS: No piece # given. Groundmass is 60%.

SITE 792

126-792E-67R-04 (4-6 cm)

OBSERVER: LTP

WHERE SAMPLED:

ROCK NAME: Clinopyroxene-orthopyroxene-plagioclase-andesite

GRAIN SIZE: Fine

TEXTURE: Porphyritic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	N/A	30	</=3		Euhedral	Partly altered to smectites.
Clinopyroxene	N/A	8	</=2		Euhedral	Fresh.
Magnetite	N/A	1	N/A		N/A	
Orthopyroxene	N/A	1	</=10		N/A	Altered to smectites (and celadonite) includes plagioclase and magnetite.
Orthopyroxene	N/A	1	-1.5		N/A	Fresh "stubby twinning".
GROUNDMASS						
Plagioclase	N/A	N/A	-0.2		N/A	Microcrystalline groundmass.
Magnetite	N/A	N/A	-0.1		N/A	Microcrystalline groundmass.

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

COMMENTS: No piece # given. Groundmass is 60%.

126-792E-68R-02 (108-109 cm)

OBSERVER: LTP

WHERE SAMPLED:

ROCK NAME: Volcanic-andesitic breccia

GRAIN SIZE: Fine

TEXTURE: Porphyritic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	N/A	35	4		Euhedral	Fresh, euhedral, zoned.
Clinopyroxene	N/A	3	2		Euhedral	Fresh.
Orthopyroxene	N/A	2	N/A		Euhedral	Fresh or slightly altered to smectites, sometimes clustered with clinopyroxene.
GROUNDMASS						
N/A	N/A	N/A	N/A		N/A	Groundmass is iron stained.

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

COMMENTS: Clasts of non-stained orthopyroxene-clinopyroxene-plagioclase andesite. Entire or broken plagioclase-clinopyroxene crystals. Matrix is altered glass in smectites. No piece # given.

126-792E-69R-04 (38-39 cm)

OBSERVER: LTP

WHERE SAMPLED:

ROCK NAME: Amphibole-dacite

GRAIN SIZE: Fine

TEXTURE: Porphyritic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	N/A	5	0.5		Euhedral	Fresh.
Clinopyroxene	N/A	Tr	0.1		Euhedral	Fresh.
Opaque	N/A	N/A	N/A		Euhedral	Included in amphibole.
Amphibole	N/A	3	4		Euhedral	Fresh-zoned.
Quartz	N/A	1	2		N/A	
GROUNDMASS						
N/A	N/A	N/A	N/A		N/A	Groundmass is microcrystalline.

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

COMMENTS: Amphibole-dacite in volcaniclastic bed. No piece # given.

126-792E-69R-05 (52-53 cm)

OBSERVER: LTP

WHERE SAMPLED:

ROCK NAME: N/a

GRAIN SIZE: Fine grained

TEXTURE: Porphyritic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	N/A	20	~1		Euhedral	Glomeroporphyritic aggregates zoned, fresh.
Opagues	N/A	2	0.5		Euhedral	Often in inclusions in amphiboles.
Quartz	N/A	N/A	~2		Subeuhedral	Embayed.
Amphibole	N/A	6	</=5		Euhedral	Fresh, zoned (green hornblende).
GROUNDMASS						
Plagioclase	N/A	N/A	0.1		N/A	72% apparently fresh, isotropic glass.
Amphibole	N/A	N/A	0.3		N/A	Apparently fresh isotropic glass.

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

COMMENTS: Clots of amphibole, opaque and plagioclase. Glass is fractured and along cracks, there is development of smectites. No piece # given.

SITE 792

126-792E-71R-01 (Piece 8,94-96 cm)

OBSERVER: LTP

WHERE SAMPLED:

ROCK NAME: Orthopyroxene-clinopyroxene andesite

GRAIN SIZE:

TEXTURE: Porphyritic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	30	30	1		Subhedral	Glomeroporphyritic aggregates, zoned.
Clinopyroxene	15	15	</=5		Euhedral	
Orthopyroxene	N/A	15	</=3		Euhedral	Altered to smectites.
Magnetite	N/A	Tr	</=1		Subhedral	
GROUNDMASS						
Plagioclase	N/A	N/A	</=0.1		N/A	
Pyroxenes	N/A	N/A	N/A		N/A	Altered glass in cryptocrystalline brown material.
SECONDARY MINERALOGY						
Clays	PERCENT 15	REPLACING/FILLING Orthopyroxene			Smectite.	COMMENTS

VESICLES/CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE	COMMENTS
Vesicles	3	Random	</=1		Irregular	Filled with smectites.

COMMENTS: Orthopyroxene pseudomorphs mantled by clinopyroxene. Groundmass is 40%.

126-792E-71R-01 (Piece 8,99-101 cm)

OBSERVER: LTP

WHERE SAMPLED:

ROCK NAME: Orthopyroxene-clinopyroxene andesite

GRAIN SIZE:

TEXTURE: Porphyritic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	25	25	</=5		Subhedral	Clustered in glomerophyritic aggregates.
Clinopyroxene	10	10	</=3		Euhedral	Fresh/smectites clustered with plagioclase.
Orthopyroxene	0	5	</=5		Euhedral	Completely altered in smectites.
Magnetite	<1	<1	N/A		N/A	Very few compared to the other rocks.
GROUNDMASS						
Plagioclase	N/A	N/A	0.1		N/A	Microlites.
Clinopyroxene	N/A	N/A	</=0.5		N/A	
Glass	N/A	N/A	N/A		N/A	Glass completely altered in brown opaque material.
SECONDARY MINERALOGY						
Clays	PERCENT 55	REPLACING/FILLING Orthopyroxene, glass				COMMENTS

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

COMMENTS: The rock appears to be pyroclastic: some crystals look broken. Present groundmass is 10%, original is 65%.

126-792E-71R-01 (Piece 11,134-142 cm) OBSERVER: LTP WHERE SAMPLED:

ROCK NAME: Orthopyroxene-clinopyroxene andesite

GRAIN SIZE: Fine

TEXTURE: Porphyritic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	30	30	</=5		Subhedral	Zoned and clustered.
Clinopyroxene	15	15	</=4		Euhedral	Inclusions, lamellae, fresh.
Orthopyroxene	1	14	</=4		Euhedral	Altered in smectites (very few preserved).
Magnetite	1	1	</=1		Subhedral	In the groundmass.
Olivine	N/A	N/A	N/A		N/A	Perhaps a few crystals of olivine pseudomorphs.
GROUNDMASS						
Plagioclase	N/A	N/A	</=0.1		N/A	
Clinopyroxene	N/A	N/A	</=0.3		N/A	
Orthopyroxene	N/A	N/A	</=0.5		N/A	
Glass	N/A	N/A	N/A		N/A	Glass completely devitrified.

SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING	COMMENTS
Clays	55	Orthopyroxene, glass	

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

COMMENTS: Inclusions: quartz xenocrysts surrounded by clinopyroxene. Big inclusions with the same mineralogy as the andesite, coarser grained than the andesite - flow-aligned plagioclase microlites/laths. Original groundmass was 60%, present is 10%.

126-792E-71R-02 (83-85 cm) OBSERVER: LTP WHERE SAMPLED:

ROCK NAME: Orthopyroxene-clinopyroxene-andesite

GRAIN SIZE: Fine

TEXTURE: Porphyritic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	30	30	3-4		Euhedral	Zoned and clustered in glomeroporphyritic clots.
Clinopyroxene	5	5	4		Euhedral	Fresh.
Opaque	1	1	<0.5		Euhedral	Fresh.
Orthopyroxene	1	5	</=3		Euhedral	Altered to smectites. Some crystals are preserved.
GROUNDMASS						
Feldspar	N/A	N/A	0.1		N/A	Microcrystalline groundmass. Includes flow aligned feldspars.
Clinopyroxene	N/A	N/A	0.2		N/A	
Orthopyroxene	N/A	N/A	0.2		N/A	Microlites. Altered to smectites.
Glass	N/A	N/A	N/A		N/A	

SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING	COMMENTS
Clays	53	Orthopyroxene, glass	Smectites replacing orthopyroxene and preserved in the groundmass.

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

COMMENTS: No piece # given. Present groundmass is 10% and original is 59%. Orthopyroxene altered with smectite and mantled by clinopyroxene.

SITE 792

126-792E-71R-03 (Piece 2A, 33-34 cm)

OBSERVER: TOR

WHERE SAMPLED: Unit 7

ROCK NAME: Plagioclase-two orthopyroxene-andesite

GRAIN SIZE: Fine

TEXTURE: Intersertal, porphyritic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	20	20	N/A		Subhedral	Zoned.
Clinopyroxene	3	3	0.1-4		Euhedral	Plagioclase included in clinopyroxene Fresh.
Magnetite	1	1	<0.2		N/A	Included in clinopyroxene.
Orthopyroxene	1	10	0.1-4		Euhedral	Almost all altered to smectite.
GROUNDMASS						
Glass	N/A	N/A	N/A		N/A	Devitrified, partly altered to smectite.
Plagioclase	N/A	N/A	<0.1		Laths	
SECONDARY MINERALOGY						
Clays	PERCENT 65	REPLACING/ FILLING	Orthopyroxene, glass			COMMENTS

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

COMMENTS: Xenolith of similar mineralogy present in thin section. All glass completely altered to smectite. Phenocrysts: plagioclase <=1.0 mm, but sample contains ~50% plagioclase (0.1-0.2 mm in size) in a subophitic texture. Orthopyroxene and clinopyroxene in percentage as above, magnetite ~5%. Fluidal textures around the xenolith - alignment of plagioclase laths in groundmass around the xenolith. Several crystals along the edge of the xenolith appear to be broken. Present groundmass is 10%, original was 66%.

126-792E-72R-01 (Piece 10, 110-111 cm)

OBSERVER: TOR

WHERE SAMPLED: Unit 1

ROCK NAME: Plagioclase-two pyroxene-andesite

GRAIN SIZE: Fine

TEXTURE: Intersertal, porphyritic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	30	30	0.2-4		Euhedral-subhedral, zoned	
Clinopyroxene	5	5	0.1-1		Euhedral	Fresh.
Magnetite	1	1	<0.2		Euhedral-subhedral	
Orthopyroxene	Tr	10	0.1-4		Euhedral	Almost completely altered to smectite, a few rims of orthopyroxene remains.
GROUNDMASS						
Glass	N/A	N/A	N/A		N/A	Devitrified, altered to smectite.
Plagioclase	N/A	N/A	N/A		N/A	
SECONDARY MINERALOGY						
Clays	PERCENT 20	REPLACING/ FILLING	Orthopyroxene, glass			COMMENTS
Clays	24	Glass			Smectite.	

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

COMMENTS: Present groundmass is 10%, original was 54%.

126-792E-73R-01 (Piece 10,17-18 cm) OBSERVER: TOR WHERE SAMPLED: Unit 1

ROCK NAME: Plagioclase-two pyroxene-andesite

GRAIN SIZE: Fine

TEXTURE: Intersertal, porphyritic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	30	30	0.2-5		Subhedral	Highly zoned.
Clinopyroxene	3	3	N/A		Euhedral	
Magnetite	1	1	N/A		Euhedral	
Orthopyroxene	0	10	0.2-5		Euhedral	Altered to smectite.
Quartz	</=1	</=1	0.1-0.4		Anhedral	
GROUNDMASS						
Glass	N/A	N/A	N/A		N/A	Devitrified.
Plagioclase	N/A	N/A	<0.2		Laths	
SECONDARY MINERALOGY						
Clays	PERCENT 55	REPLACING/FILLING Orthopyroxene, glass			Smectite.	COMMENTS
VESICLES/CAVITIES						
Vesicles	PERCENT 0	LOCATION	SIZE (mm)	FILLING	SHAPE	

COMMENTS: Present groundmass is 10%, original was 65%.

126-792E-74R-01 (Piece 7A,84-85 cm) OBSERVER: TOR WHERE SAMPLED:

ROCK NAME: Clinopyroxene-plagioclase-andesite with dacite xenoliths

GRAIN SIZE:

TEXTURE: Porphyritic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	30	30	</=3		Subeuhedral	Zoned-clustered.
Clinopyroxene	3	3	</=2		Euhedral	Includes small plagioclase.
Magnetite	1	1	</=1		N/A	
Quartz	N/A	N/A	N/A		N/A	In xenoliths, partly resorbed.
Orthopyroxene	<<1	1	3		N/A	Fresh or altered to smectites.
GROUNDMASS						
Plagioclase	10	-0.1	N/A		N/A	Altered groundmass to smectites giving a "pseudobreccia" look.
SECONDARY MINERALOGY						
Clays	PERCENT 55	REPLACING/FILLING Orthopyroxene, glass			Smectites coming from altered glass.	COMMENTS
VESICLES/CAVITIES						
Vesicles	PERCENT 0	LOCATION	SIZE (mm)	FILLING	SHAPE	

COMMENTS: Quartz-orthopyroxene dacite is present as xenoliths. Groundmass is recrystallized cryptocrystalline quartz. Magnetite is also present. Orthopyroxene is altered in smectites. Some clasts contain mica pseudomorphs replaced by chlorite. Perhaps some of the rock is partly broken i.e. "clasts"?

SITE 792

126-792E-74R-01 (Piece 9,145-148 cm) OBSERVER: REX WHERE SAMPLED: At magnetite accumulation layer

ROCK NAME: Porphyritic - 2 pyroxene andesite

GRAIN SIZE: 0.5-3 mm

TEXTURE: Porphyritic-interstitial, accumulative

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	30	30	0.5-2		Euhedral	
Clinopyroxene	3	3	0.2-2		Subhedral	
Spinel (magnetite?)	8	8	0.1-0.5		Subhedral	Accumulation at contact between two flows.
Orthopyroxene	?	<1	0.1-0.3		Subhedral	
GROUNDMASS						
Glass	5	58	N/A		N/A	
SECONDARY MINERALOGY						
Clays	43	REPLACING/FILLING Replacing			Glass/matrix of rock.	COMMENTS
VESICLES/CAVITIES						
Vesicles	0	LOCATION	SIZE (mm)	FILLING	SHAPE	

COMMENTS: Above contact, accumulation of ore mineral amidst normal andesite assemblage for Unit 1. Matrix in this region is veined by smectite alteration-could be fragmental? - possibly some flow-brecciation at base of flow.

126-792E-75R-01 (Piece 3,50-51 cm) OBSERVER: TOR WHERE SAMPLED: Unit 1

ROCK NAME: Plagioclase-orthopyroxene-clinopyroxene-quartz-andesite

GRAIN SIZE: Fine

TEXTURE: Porphyritic, interstitial

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	15	15	N/A		N/A	
Clinopyroxene	1	1	0.1-0.7		N/A	
Magnetite	1	1	</=0.2		Euhedral	
Orthopyroxene	0	7	0.1-2		Euhedral	
Quartz	2	2	0.1-0.7		Anhedral (rounded)	
GROUNDMASS						
Glass	N/A	N/A	N/A		N/A	Devitrified.
Plagioclase	N/A	N/A	<0.1		Needles	
SECONDARY MINERALOGY						
Clays	64	REPLACING/FILLING Orthopyroxene, glass			Smectite replacing orthopyroxene.	COMMENTS
VESICLES/CAVITIES						
Vesicles	0	LOCATION	SIZE (mm)	FILLING	SHAPE	

COMMENTS: Present groundmass is 10%, original was 74%.

126-792E-76R-01 (Piece 1,1-2 cm)

OBSERVER: LTP

WHERE SAMPLED: Altered zone (glassy part)

ROCK NAME: Pyroclastic breccia (andesitic)

GRAIN SIZE: Fine

TEXTURE: Porphyritic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	N/A	N/A	0.5		Euhedral	Chloritized.
Clinopyroxene	N/A	N/A	4		N/A	Replaced by smectites and prehnite.
Orthopyroxene	N/A	N/A	-2		Euhedral	Replaced by smectites, iron oxides.
GROUNDMASS						
N/A	N/A	N/A	N/A		N/A	Orthopyroxene surrounded by clinopyroxene ~2 mm. Groundmass. 80%, both altered completely, transformed to chlorite and smectites.
SECONDARY MINERALOGY						
	PERCENT	REPLACING/ FILLING				COMMENTS
Clays	60					Replacing minerals and groundmass.
Chlorite	30					Replacing minerals (mainly phenocrysts).
Prehnite	10					Replacing clinopyroxene.

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

COMMENTS: Clasts: altered clinopyroxene-orthopyroxene andesite, 4-5 cm up to 0.5 cm. Groundmass: glassy becoming partly replaced by smectites. Clots of clinopyroxene including small plagioclase laths, very fresh. Clinopyroxene and plagioclase crystals, whole or broken, very fresh. Orthopyroxene - generally replaced by smectites (some relics).

126-792E-76R-01 (Piece 1,2-3 cm)

OBSERVER: TOR

WHERE SAMPLED:

ROCK NAME: Pyroclastic breccia

GRAIN SIZE: Fine

TEXTURE: Porphyritic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	25	30	0.2-1		Euhedral	
Clinopyroxene	3	6	N/A		Euhedral	Partly altered to smectite.
Magnetite	1	1	N/A		Subhedral	
Orthopyroxene	0	6	N/A		Euhedral	
GROUNDMASS						
Glass	N/A	N/A	N/A		N/A	Glass and plagioclase are presently 2%, originally 57%.
Plagioclase	N/A	N/A	N/A		N/A	Glass and plagioclase are presently 2%, originally 57%.
SECONDARY MINERALOGY						
	PERCENT	REPLACING/ FILLING				COMMENTS
Clays	69	Orthopyroxene, clinopyroxene, plagioclase, groundmass				

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

SITE 792

126-792E-76R-01 (Piece 2,10-11 cm) OBSERVER: LTP WHERE SAMPLED:

ROCK NAME: Andesitic volcanic breccia (orthopyroxene-clinopyroxene)

GRAIN SIZE: Fine

TEXTURE: Porphyritic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	35	35	</=4		Euhedral	Oscillatory zoned - glomeroporphyritic.
Clinopyroxene	3	3	1		Euhedral	Fresh.
Opaque	1	1	N/A		N/A	
Orthopyroxene	N/A	1	3		Euhedral	Altered to smectites.
GROUNDMASS						
Plagioclase	N/A	N/A	0.1		N/A	
Clinopyroxene	N/A	N/A	0.5		N/A	
Groundmass	N/A	N/A	N/A		N/A	Partly cryptocrystalline.
SECONDARY MINERALOGY						
Clays	PERCENT 50	REPLACING/ FILLING Glass				COMMENTS

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

COMMENTS: Clasts: three types: clinopyroxene-q-dacite with a groundmass replaced by smectites. Very altered orthopyroxene-clinopyroxene andesite similar to sample 126-73R-01, piece 1. Orthopyroxene-clinopyroxene-plagioclase andesite less altered. Broken and/or entire plagioclase-clinopyroxene and quartz crystals. Matrix is altered glass (replaced by smectites). Groundmass is 60%.

126-792E-76R-01 (Piece 4,42-43 cm) OBSERVER: LTP WHERE SAMPLED:

ROCK NAME: Quartz bearing orthopyroxene-clinopyroxene andesite

GRAIN SIZE: Fine grained

TEXTURE: Porphyritic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Orthopyroxene	1	5	2		Euhedral	Partly altered, some are fresh.
Plagioclase	20	20	<4		Euhedral	Zoned, fresh clustered.
Clinopyroxene	6	6	</=3		Euhedral	Fresh.
Ilmenite	3	3	N/A		Subhedral	Ilmenite or magnetite.
Quartz	2	2	N/A		Subhedral	Smectites embayed.
GROUNDMASS						
Feldspar	N/A	N/A	0.1		N/A	
Glass	N/A	N/A	N/A		N/A	Glass partly recrystallized.
SECONDARY MINERALOGY						
Clays	PERCENT 54	REPLACING/ FILLING Orthopyroxene, glass				COMMENTS

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

COMMENTS: This rock appears rather rich in magnetite-ilmenite and quartz is sometimes embayed. Groundmass is presently 10%, originally 64%.

126-792E-76R-01 (Piece 6,69-70 cm) OBSERVER: TOR WHERE SAMPLED: Unit 1

ROCK NAME: Highly plagioclase-two pyroxene-andesite

GRAIN SIZE: Fine

TEXTURE: Porphyritic, intersertal

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	35.5	35.5	0.2-4		Subhedral	Zoned.
Clinopyroxene	1.2	1.2	0.1-1		Subhedral	
Magnetite	1.2	1.2	0.1-0.2		Euhedral	
Quartz	1.5	1.5	0.1-0.2		Anhedral	Round.
Orthopyroxene	0	6.5	0.1-2		Euhedral	Altered to smectite.
GROUNDMASS						
Glass	0	54.1	N/A		N/A	Altered to smectite.
SECONDARY MINERALOGY						
	PERCENT	REPLACING/ FILLING				COMMENTS
Clays	60.6	Glass, orthopyroxene			Smectite.	

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

COMMENTS: Proportions and percentages by point counting (850 points).

126-792E-76R-01 (Piece 6,69-70 cm) OBSERVER: LTP WHERE SAMPLED:

ROCK NAME: Quartz-bearing andesite (2 pyroxenes)

GRAIN SIZE: Fine

TEXTURE: Porphyritic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	33	33	</=5		Subhedral	Clustered and highly zoned.
Clinopyroxene	8	8	</=3		N/A	Zn=35-40, perfectly fresh.
Magnetite	1	1	</=1		N/A	
Quartz	3	3	</=1		Sub-euhedral	
Orthopyroxene	0	15	</=3		Euhedral	Altered to smectites.
GROUNDMASS						
Plagioclase	N/A	N/A	</=0.1		N/A	Often included in pyroxenes.
Clinopyroxene	N/A	N/A	</=0.1		N/A	
Magnetite	N/A	N/A	N/A		N/A	
Glass	N/A	N/A	N/A		N/A	Glass partly devitrified.
SECONDARY MINERALOGY						
	PERCENT	REPLACING/ FILLING				COMMENTS
Clays	45				Smectites replacing orthopyroxene.	

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

COMMENTS: 2 types of clots: magnetite + plagioclase and orthopyroxene + plagioclase. Glass is still fresh. Groundmass is 10%.

SITE 792

126-792E-76R-01 (Piece 7,84-88 cm)

OBSERVER: LTP

WHERE SAMPLED: Unit 5

ROCK NAME: Clinopyroxene-dacite

GRAIN SIZE: Fine grained

TEXTURE: Porphyritic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	30	30	2-3		Euhedral	Oscillatory zoned, fresh.
Clinopyroxene	7	7	3-4		Euhedral	Fresh.
Opaque	1	1	N/A		Subhedral	
Orthopyroxene	0	5	3		Euhedral	Altered.
Quartz	5	5	0.5		Subhedral	Fresh.
GROUNDMASS						
Feldspar	N/A	N/A	0.1		N/A	Cryptocrystalline to altered siliceous glass.
Glass	N/A	N/A	N/A		N/A	Cryptocrystalline to altered silicious glass.
SECONDARY MINERALOGY						
Clays	47	REPLACING/ FILLING Orthopyroxene and glass				COMMENTS

VESICLES/ CAVITIES	PERCENT	LOCATION	SIZE (mm)	FILLING	SHAPE
Vesicles	10	Random		Secondary, quartz and zeolites(?)	

COMMENTS: Orthopyroxene is less abundant than in the quartz-bearing andesites. Present groundmass is 10%, originally was 52%.

126-792E-78R-01 (Piece 9,81-82 cm)

OBSERVER: LTP

WHERE SAMPLED:

ROCK NAME:

GRAIN SIZE:

TEXTURE: Porphyritic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	34	34	</=5		Subhedral	Oscillatory zoned-fresh.
Clinopyroxene	10	10	</=5		Euhedral	Including small plagioclase.
Magnetite	2	2	N/A		Subhedral	
Orthopyroxene	0	13	</=4		Euhedral	Altered to smectites.
Quartz	1	1	~1		N/A	
GROUNDMASS						
Clinopyroxene	N/A	N/A	~</=1		N/A	
Orthopyroxene	N/A	N/A	</=1		N/A	
Plagioclase	N/A	N/A	</=0.5		N/A	
Glass	N/A	N/A	N/A		N/A	Completely devitrified in a brown cryptocrystalline material.
Magnetite	N/A	N/A	N/A		N/A	
SECONDARY MINERALOGY						
Clays	53	REPLACING/ FILLING Orthopyroxene			Smectite.	COMMENTS

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

COMMENTS: Present groundmass is 10%, originally was 53%. Two types of clots: 1) big clinopyroxene associated with plagioclase + orthopyroxene and magnetite; 2) plagioclase glomeroporphyritic aggregates.

126-792E-78R-01 (Piece 15,133-136 cm) OBSERVER: LTP WHERE SAMPLED:

ROCK NAME: Quartz-bearing andesite (2 pyroxenes)

GRAIN SIZE: Fine

TEXTURE: Porphyritic

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPOSITION	MORPHOLOGY	COMMENTS
PHENOCRYSTS						
Plagioclase	25	25	</=5		N/A	
Clinopyroxene	7	7	</=2		N/A	Fresh, sometimes clustered with plagioclase.
Orthopyroxene	1	7	</=3		N/A	Partly altered to smectites. Some crystals are still fresh.
Quartz	1	1	</=1		N/A	
GROUNDMASS						
Plagioclase	N/A	N/A	</=0.1		N/A	
Clinopyroxene	N/A	N/A	</=0.5		N/A	
Glass	N/A	N/A	N/A		N/A	Glass altered in brown microcrystalline material.

SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING	COMMENTS
Clays	56	Orthopyroxene, glass	

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

COMMENTS: 1 crystal of fresh orthopyroxene. Present groundmass is 10%, original was 60%.