

METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
		<p>very fine medium coarse granule</p>		<p>Py</p>		<p>SS IW SS OG IW SS</p>				<p>CLAY and SILT</p> <p>Major Lithologies: This core is dominated by dark greenish gray (10Y 4/1), homogeneous, unconsolidated CLAY. The CLAY contains rare, local, thin (sub-mm to mm- scale) laminae of SILT and pyrite. A 92-cm-thick, very dark greenish gray (10Y 3/1) SILT turbidite is present in the Interval 169-1037A-1H-4, 120 cm to 1H-5, 62 cm. This turbidite has a sharp base and fines upward into parallel laminated SILT and CLAY and, finally, into the homogeneous CLAY.</p>

SITE 1037 HOLE B CORE 1H Recovery 99% CORED 0.0 - 6.6 mbsf 1037B-1H

METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
0.0	1	Very fine fine medium coarse granulose granule		Unit I					<p>CLAY</p> <p>Major Lithologies: Greenish gray (5GY 5/1 and 10yr 4/1), homogeneous, unconsolidated CLAY with minor pale green (5G 6/2) laminae in Section 169-1037B-1H-1, 69, 108, 118, 132, and 138 cm and 1H-2, 48 cm. The top 9 cm of Section 169-1037B-1H-1 is yellowish green (10YR 3/6) to gray (N 4). Interval 169-1037B-1H-1, 0 to 18 cm has a more hemipelagic "feel" to it than does the rest of the core, which looks like a terrigenous "glacial" SILT.</p>
1.0	2									
2.0	3			Py					
3.0	4				Unit II				
4.0	5								
5.0	6									
6.0										

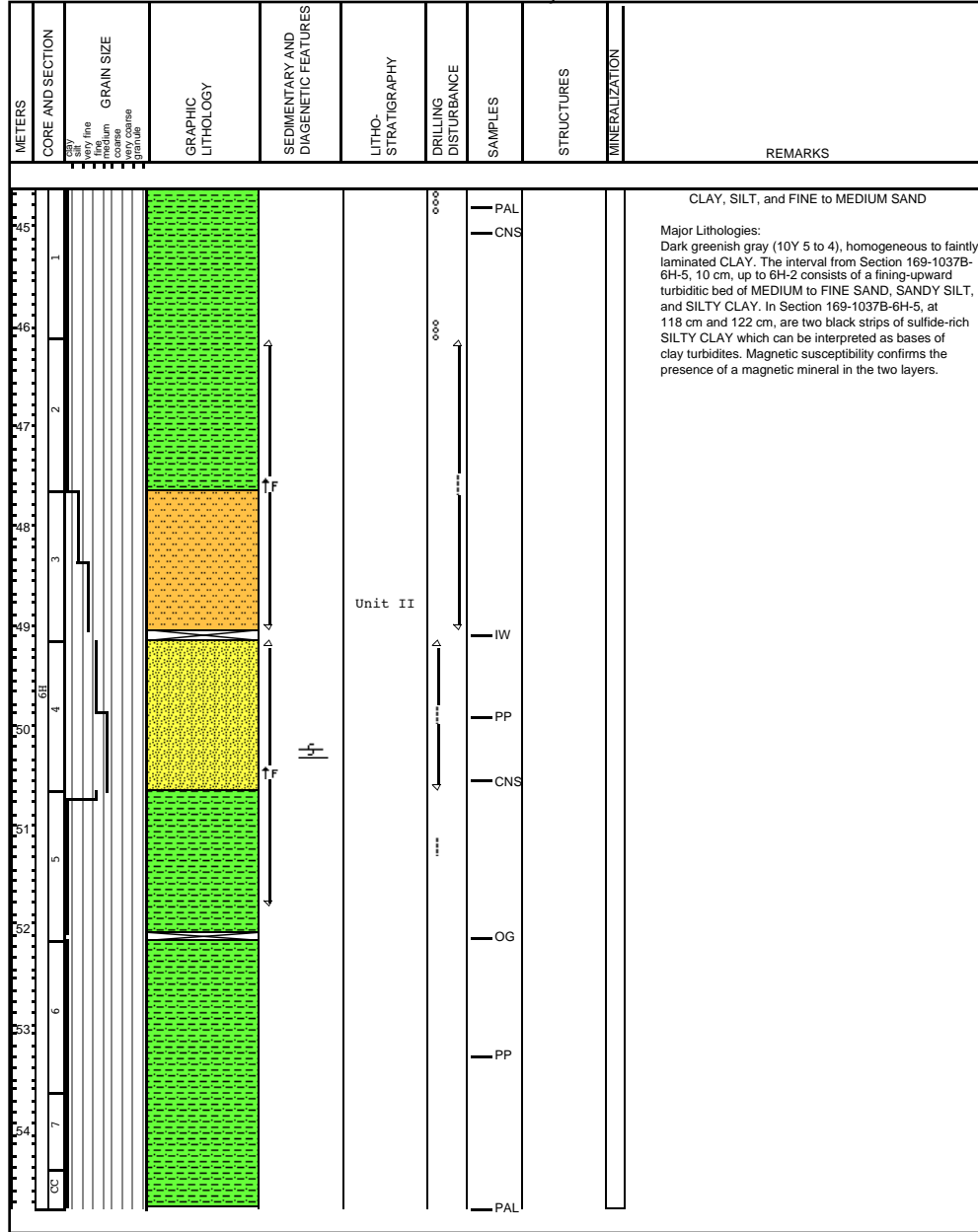
SITE 1037 HOLE B CORE 3H Recovery 105% CORED 16.1 - 25.6 mbsf 1037B-3H

METERS	CORE AND SECTION	GRAIN SIZE very fine fine medium coarse very coarse boulders	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO- STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
17 18 19 20 21 22 23 24 25 26	1 2 3 4 5 6 7 CC				Unit II		CNS PP IW OG CNS PAL PAL IW CNS PP PAL		<p>CLAY, SILT, and VERY FINE to MEDIUM SAND</p> <p>Major Lithologies: Dark greenish gray (10Y 5), homogeneous CLAY. There is one 3.4 m thick fining-upward turbidite in the core. The lowermost MEDIUM to FINE SAND continues up from Section 169-1037B-3H-4 to 3H-2 where it grades up to CLAYEY SILT and SILTY CLAY. An interval of fining-upward CLAY to SILTY CLAY occurs in Sections 169-1037B-3H-7 to 6.</p>	

METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
26.0	1	very fine to coarse	[Green hatched pattern]							CLAY, SILT, and VERY FINE to MEDIUM SAND Major Lithologies: Gray (N6) to dark gray (N4), homogeneous CLAY with minor SILT. This core contains two fining-upward FINE to MEDIUM SAND turbidites in Sections 169-1037B-4H-CC to 4H-6 and uppermost 4H-5 to 4H-4. In Section 169-1037B-4H-4, 5 cm, a bleb of organic matter occurs.
27.0	2									
28.0	3				Unit II					
29.0	4		[Yellow dotted pattern]							
30.0	5		[Green hatched pattern]							
31.0	6		[Green hatched pattern]							
32.0	7		[Green hatched pattern]							
33.0	8		[Green hatched pattern]							
34.0	9		[Yellow dotted pattern]							
35.0	10		[Yellow dotted pattern]							

SITE 1037 HOLE B CORE 5H Recovery 108% CORED 35.1 - 44.6 mbsf 1037B-5H

METERS	CORE AND SECTION	GRAIN SIZE fine medium fine very coarse granule	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
36 37 38 39 40 41 42 43 44 45				<p>Unit II</p>	<p>PAL PP PP IW PP PAL PAL</p>				<p>CLAY, SILT and FINE to MEDIUM SAND</p> <p>Major Lithologies: Gray (N4-N6) to dark greenish gray (10Y 5), homogeneous CLAY with faint bands (2-10 mm) of organic matter and/or fine-grained authigenic sulfide disseminations and blebs. Sections 169-1037B-5H-5, 5 cm to 5H-3, 0 cm, consist of a fining-upward MEDIUM SAND, FINE SILTY SAND, CLAYEY SILT and SILTY CLAY.</p>	



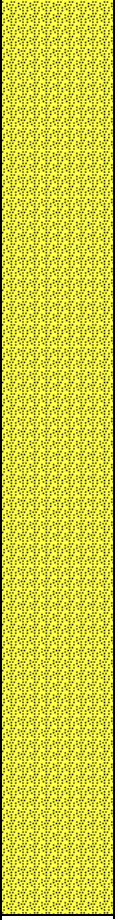
SITE 1037 HOLE B CORE 7H Recovery 105% CORED 54.1 - 63.6 mbsf 1037B-7H

METERS	CORE AND SECTION 1037B-7H 1037B-7H-1 1037B-7H-2 1037B-7H-3 1037B-7H-4 1037B-7H-5 1037B-7H-6 1037B-7H-7	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
55 56 57 58 59 60 61 62 63 64	1 2 3 4 5 6 7				Unit II		PAL PP PAL PAL PAL IW CNS PP PAL		<p>MEDIUM SAND, SILT and CLAYEY SILT</p> <p>Major Lithologies: Predominantly dark gray (N4), poorly sorted and mostly ungraded MEDIUM SAND, grading up to SILT and CLAYEY SILT in Section 169-1037B-7H-2. Wood fragments occur in Section 169-1037B-7H-2 at 90-91 cm and 121 to 124 cm.</p>	

METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
64	1	very fine to very coarse	[Green hatched pattern]							<p>CLAY and SILT</p> <p>Major Lithologies: Dark greenish gray (10Y5 to 4) CLAY and SILT. CLAY contains some small (1-5 mm) SILTY CLAY patches. In Section 169-1037B-8H-CC the grain-size increases to FINE SAND.</p>
65	2		[Green hatched pattern]							
66	3		[Green hatched pattern]		Unit II					
67	4		[Green hatched pattern]							
68	5		[Green hatched pattern]							
69	6		[Green hatched pattern]							
70	7		[Orange dotted pattern]							
71										
72										
73	CC									

SITE 1037 HOLE B CORE 9H Recovery 104% CORED 73.1 - 82.6 mbsf 1037B-9H

METERS	CORE AND SECTION	GRAIN SIZE very fine fine medium coarse very coarse granular	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
74.4 75 76 77 78 79 80 81 82 83	1 2 3 4 5 6 7 8 9				Unit III					<p>FINE SAND, SILT, and SILTY CLAY</p> <p>Major Lithologies: Dark gray (5Y 4/1) poorly sorted, micaceous, massive FINE SAND to SILT in Sections 169-1037B-9H-1 to -7. A sharp contact in Section 169-1037B-9H-7, at 60 cm, marks the base of this thick turbidite sequence that overlies SILTY CLAY to SILT in the base of Sections 169-1037B-9H-7 and to -CC. Woody fragments (mm-scale) are common in Section 169-1037B-9H-1, 0 to 70 cm.</p>

METERS	CORE AND SECTION	GRAIN SIZE very fine fine medium coarse very coarse fine	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
83 84 85 86 87 88 89 90 91	1 2 3 4 5 6				Unit III		PP PAL CNS SS PP PAL		FINE and MEDIUM SAND Major Lithologies: Dark gray (5Y 4/1), poorly sorted, homogeneous, FINE SAND with small amounts of admixed SILT and MEDIUM SAND. Wood fragments are common. Appears to coarsen somewhat downcore to MEDIUM SAND.	

SITE 1037 HOLE B CORE 11H Recovery 61% CORED 92.1 - 101.6 mbsf

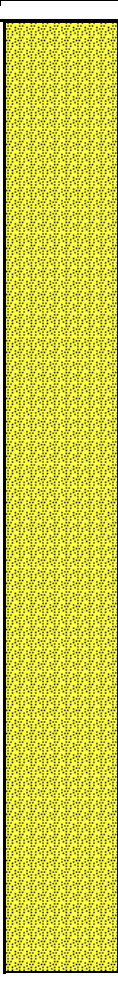

1037B-11H

METERS	CORE AND SECTION	GRAIN SIZE very fine silt medium fine very coarse granule	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
93 94 95 96 97	1 2 3 4				Unit III					FINE to MEDIUM SAND Major Lithologies: Dark gray (SY 4/1), poorly sorted, unconsolidated, massive FINE to MEDIUM SAND. Most of the core is soupy.

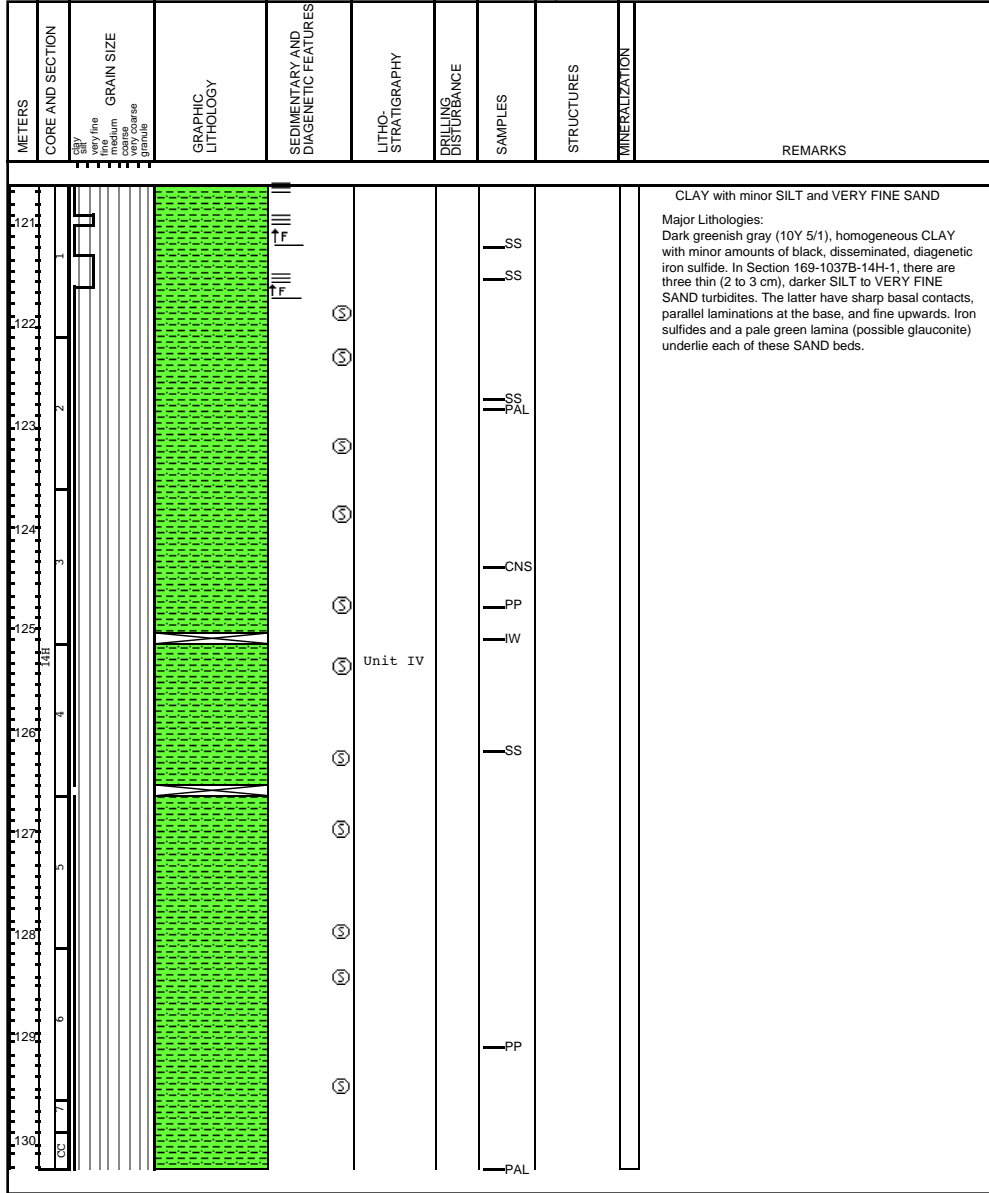
SITE 1037 HOLE B CORE 12H Recovery 92% CORED 101.6 - 111.1 mbsf 1037B-12H

METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS		
102		Very fine fine medium coarse granule								<p>MEDIUM to FINE SAND</p> <p>Major Lithologies: Dark gray (5Y 4/1), poorly sorted, massive, MEDIUM to FINE SAND. The whole core is somewhat soupy.</p>		
103												
104											PP	
105												SS
106						Unit III						
107												CNS
108												
109												
110												
										PAL		

SITE 1037 HOLE B CORE 13H Recovery 97% CORED 111.1 - 120.6 mbsf 1037B-13H

METERS	CORE AND SECTION	GRAIN SIZE very fine medium coarse granule	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
111.1 112 113 114 115 116 117 118 119 120 120.6	1 2 3 4 5 6				Unit III		PAL			FINE to MEDIUM SAND Major Lithologies: Dark gray (5Y 4/1), poorly sorted, massive FINE to MEDIUM SAND. Entire core is soupy Because of drilling disturbance.

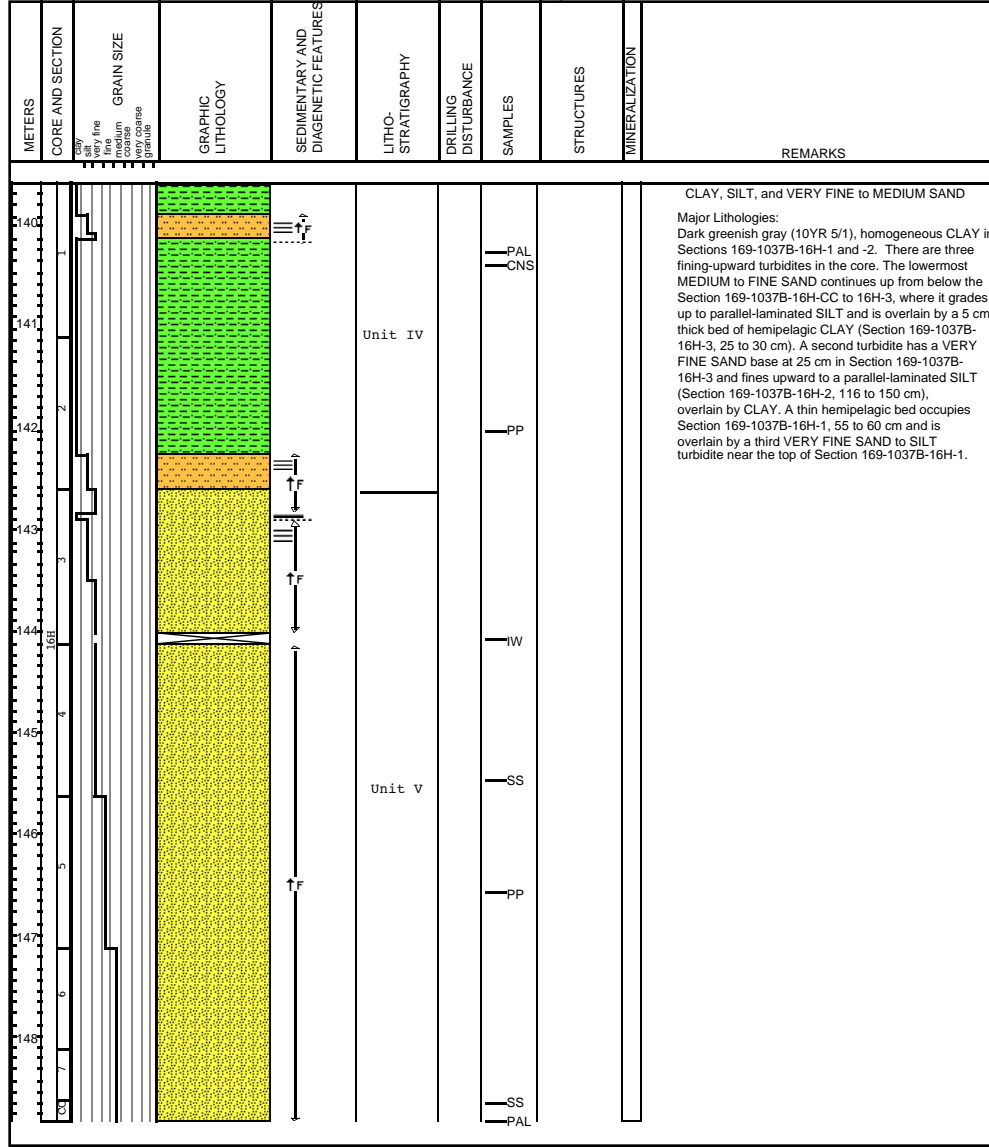
SITE 1037 HOLE B CORE 14H Recovery 102% CORED 120.6 - 130.1 mbsf 1037B-14H



SITE 1037 HOLE B CORE 15H Recovery 105% CORED 130.1 - 139.6 mbsf 1037B-15H

MEETERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
131	15H-1	very fine			Unit IV					<p>CLAY and minor VERY FINE SAND</p> <p>Major Lithologies: Dark greenish gray (10YR 5/1), homogeneous CLAY with disseminated, black specks of iron sulfide. There are two VERY FINE SAND turbidites in Section 169-1037B-15H-1 at 0 to 5 cm and in Section 15H-2 at 53 to 56 cm. Interval 169-1037B-15H-2, 25 to 56 cm, consists of a fining-upward, parallel-laminated VERY FINE SAND and SILT turbidite sequence. Both sands have sharp basal contacts.</p>
132	15H-2	medium								
133	15H-3	very coarse								
134	15H-4	granule								
135	15H-5									
136	15H-6									
137	15H-7									
138										
139										
140										

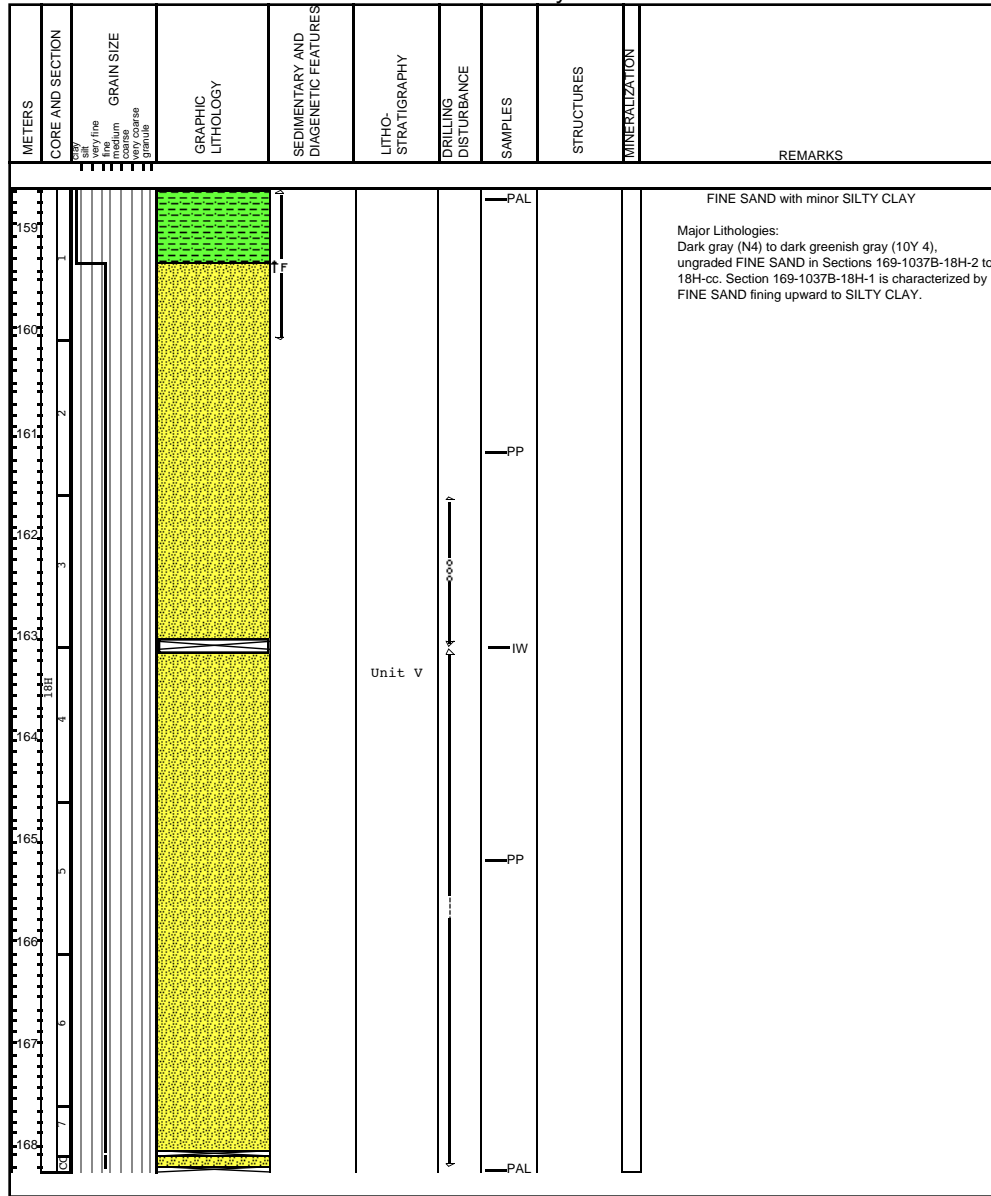
SITE 1037 HOLE B CORE 16H Recovery 96% CORED 139.6 - 149.1 mbsf 1037B-16H



SITE 1037 HOLE B CORE 17H Recovery 103% CORED 149.1 - 158.6 mbsf 1037B-17H

METERS	CORE AND SECTION 1037B-17H very fine silt medium grain size very coarse granule	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO- STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
150 151 152 153 154 155 156 157 158				Unit V				<p>FINE to VERY FINE SAND, SILT and CLAYEY SILT</p> <p>Major Lithologies: Dark gray (N4) to dark greenish greenish gray (10Y 5) VERY FINE to FINE SAND. Sections 169-1037B-17H-2 and -1 contain SILT fining upward to SILTY CLAY and CLAYEY SILT.</p>	

SITE 1037 HOLE B CORE 18H Recovery 101% CORED 158.6 - 168.1 mbsf 1037B-18H



SITE 1037 HOLE B CORE 19H Recovery 92% CORED 168.1 - 177.6 mbsf

1037B-19H

METERS	CORE AND SECTION	GRAIN SIZE Very fine medium coarse granule	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
169 170 171 172 173 174 175 176					Unit v		CNS PP	PAL	FINE to MEDIUM SAND Major Lithologies: Dark gray (N4) to dark greenish gray (5GY 4/1 to 10Y 5), FINE to MEDIUM SAND. The whole core is strongly disturbed by drilling and soupy.	

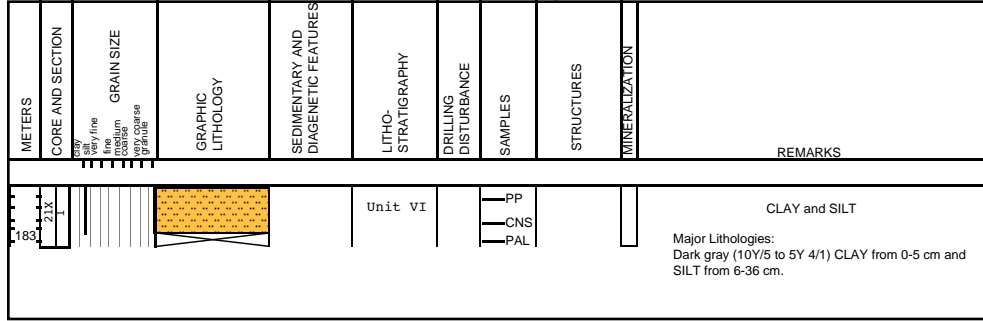
SITE 1037 HOLE B CORE 20X Recovery 104% CORED 177.6 - 182.5 mbsf 1037B-20X

METERS	CORE AND SECTION	GRAIN SIZE Very fine medium coarse granule	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
178 179 180 181 182	20X 1 2 3 4				Unit VI		<ul style="list-style-type: none"> — PAL — PP — CNS — IW — PP — PAL 		<p>CLAY and SILT</p> <p>Major Lithologies: Dark gray (5Y 4/1) homogeneous CLAY and SILT. In Section 169-1037B-20X-3 is CLAYEY SILT fining up to SILTY CLAY. In Section 169-1037B-20X-2, 110 cm, is a 2 cm thick lens of FINE SAND.</p>	

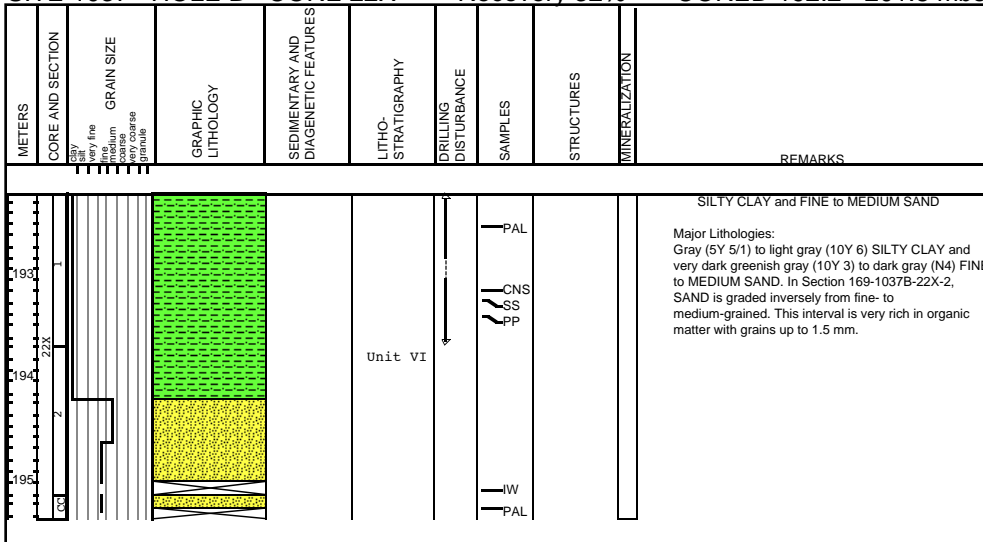
SITE 1037 HOLE B CORE 21X Recovery 4% CORED 182.5 - 192.2 mbsf

1037B-21X

1037B-22X




SITE 1037 HOLE B CORE 22X Recovery 32% CORED 192.2 - 201.8 mbsf



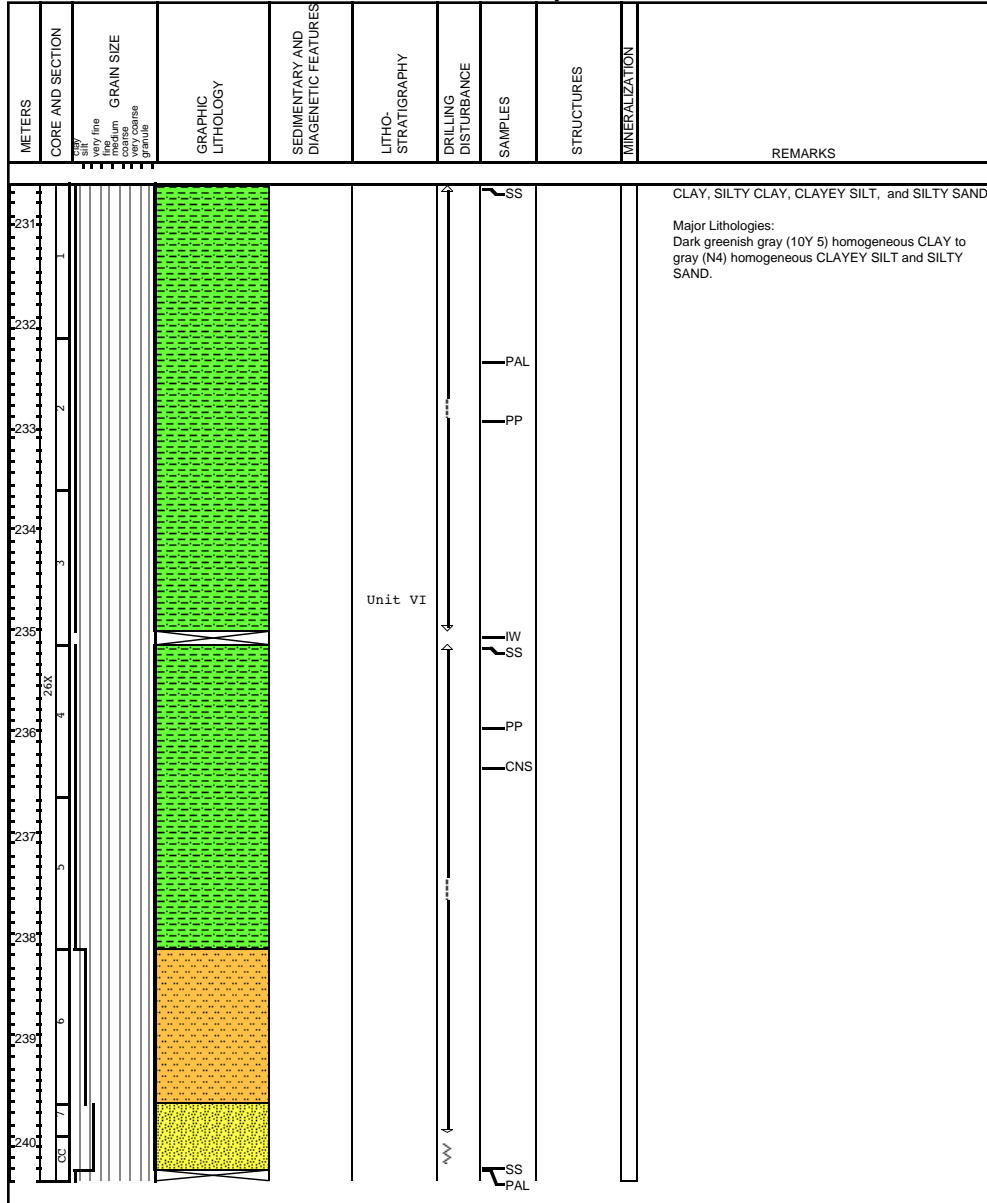
METERS	CORE AND SECTION	GRAIN SIZE <small>very fine fine medium coarse very coarse granular</small>	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
202 203 204 205 206 207 208 209 210 211	23X 1 2 3 4 5 6 7				Unit VI		PP PAL CNS W PP PAL		CLAY, SILTY CLAY, CLAYEY SILT and SILT Major Lithologies: Gray (5Y 5/1) to dark greenish gray (5GY 4/1), homogeneous CLAY with minor CLAYEY SILT to SILT, and SILTY SAND in the CC.	

SITE 1037 HOLE B CORE 24X Recovery 3% CORED 211.4 - 221.0 mbsf 1037B-24X

METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
233 231		very fine silt medium sand very coarse granule			unit vi					<p>SILTY SAND and CLAY</p> <p>Major Lithologies: Dark gray (N4) fine grained SILTY SAND fining upward to CLAY.</p>

METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
222.1	1	Very fine coarse medium granule								CLAY and SILTY CLAY Major Lithologies: Dark greenish gray (10Y 5) to gray (N5) homogeneous CLAY with minor SILTY CLAY in Section 169-1037B-25X-CC.
223.1	2									
224.1	3									
225.1	3									
226.1	4					Unit VI				
227.1	5									
228.1	5									
229.1	9									
230.1	7									
231.0	CC									

SITE 1037 HOLE B CORE 26X Recovery 101% CORED 230.6 - 240.2 mbsf 1037B-26X



SITE 1037 HOLE B CORE 27X Recovery 52% CORED 240.2 - 249.8 mbsf 1037B-27X

MEETERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
240.2 240.4 240.6 240.8 241.0 241.2 241.4 241.6 241.8 242.0 242.2 242.4 242.6 242.8 243.0 243.2 243.4 243.6 243.8 244.0 244.2 244.4 244.6 244.8 245.0 245.2 245.4 245.6 245.8 246.0 246.2 246.4 246.6 246.8 247.0 247.2 247.4 247.6 247.8 248.0 248.2 248.4 248.6 248.8 249.0 249.2 249.4 249.6 249.8	1 2 3 4	Very fine medium coarse granule			Unit VI		PP SS IW CNS PP		VERY FINE SAND and SILTY CLAYSTONE Major lithologies: Dark greenish gray (5GY 4/1), weakly to moderately indurated calcareous SILTY CLAYSTONE biscuitied by XCB drilling. The silt particles are calcite and induration is due to calcite cement. Minor lithologies: A parallel laminated greenish black (5GY 3/1) VERY FINE SAND turbidite occurs in Section 169-1037B-27X-1, 10-25 cm. No obvious grading is visible.	

SITE 1037 HOLE B CORE 28X Recovery 98% CORED 249.8 - 259.4 mbsf 1037B-28X

METERS	CORE AND SECTION	GRAIN SIZE Very fine Silt Medium Sand Very coarse Coarse Granule	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
250 251 252 253 254 255 256 257 258 259					Unit VI					CLAYSTONE Major Lithology: Highly fractured (by coring), dark gray (N 4), consolidated, homogeneous, very calcareous CLAYSTONE.

METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
260.0	1	Very fine to coarse granules								<p>CLAY, SILT, and SILTY CLAYSTONE</p> <p>Major lithologies: Dark gray (N 4) homogeneous, calcareous CLAY (Section 169-1037B-29X-1) overlying dark gray (N 4), parallel laminated calcareous SILT (Interval 169-1037B-29X-2, 0 to 133 cm) and dark gray (N 4) calcareous SILTY CLAY/CLAYSTONE from Section 169-1037B-29X-2, 133 cm to the base of the core). The strata in this core become more indurated down section; everything below Section 169-1037B-29X-2, 135 cm is indurated.</p>
261.0	2	Very fine to coarse granules					SS			
262.0	29X	Very fine to coarse granules			Unit VI		SS			
263.0	3	Very fine to coarse granules								
264.0	4	Very fine to coarse granules					IW PP CNS			
265.0										

SITE 1037 HOLE B CORE 30X Recovery 88% CORED 269.0 - 278.5 mbsf

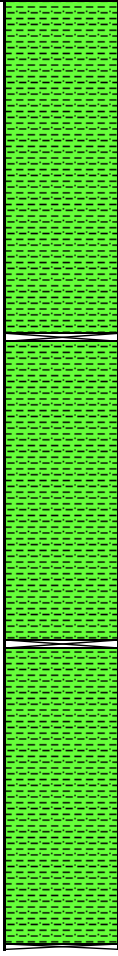

1037B-30X

METERS	CORE AND SECTION	GRAIN SIZE very fine silt medium fine coarse grainy	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO- STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
270 271 272 273 274 275 276 277 278					Unit VI		SS W CNS PAL			SILTY CLAYSTONE Major lithology: Weakly to moderately indurated, dark gray (N 4), homogeneous SILTY CLAYSTONE.

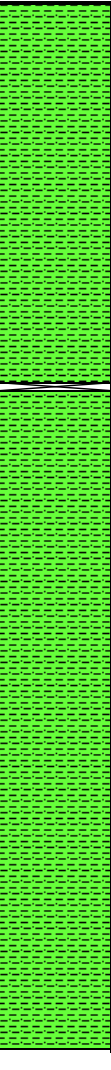

METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
279	CC	Very fine Silt								<p>SILTY CLAY</p> <p>Major Lithology: Dark gray (N 4), weakly indurated, homogeneous calcareous SILTY CLAY.</p>
280	1	Medium								
281	2	Coarse								
282	3	Very coarse								
283	4	Granular		Unit VI	IW					
284	5			CNS						
285	6			OG						
286	7									
287	8									
288	9				PAL					

SITE 1037 HOLE B CORE 32X Recovery 103% CORED 288.1 - 297.7 mbsf 1037B-32X

METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
289	1	very fine silt	[Green pattern]							<p>CLAYEY SILT, SILTY CLAY and CLAY</p> <p>Major Lithologies: Dark gray (5Y 4/1), moderately to weakly indurated, homogeneous and calcareous SILTY CLAY. Sections 169-1037B-32X-4 and -5 contain CLAYEY SILT. A large (10 cm diameter) calcite nodule is present in Interval 169-1037B-32X-5, 110-120 cm. The first 12 cm of Section 169-1037B-32X-6 (0-1-2-cm) is a slightly darker greenish gray (5GY 4/1) than the surrounding sediment and consists of calcareous CLAY.</p>
290	2	medium silt	[Green pattern]							
291	3	medium silt	[Green pattern]		Unit VI					
292	4	medium silt	[Orange pattern]							
293	5	medium silt	[Orange pattern]							
294	6	medium silt	[Green pattern]							
295	7	medium silt	[Green pattern]							
296	8	medium silt	[Green pattern]		Unit VII					
297										
298										

METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
298 299 300 301 302 303 304 305 306 307	1 2 3 4 5 6 7 CC	very fine silt medium sandy coarse fine coarse granule			Unit VII					<p>SILTY CLAY</p> <p>Major Lithology: Dark gray (5Y 4/1), moderately indurated, calcareous SILTY CLAY.</p> <p>Minor Lithology: Greenish gray (5Y 6/1) uncemented CALCIMICRITE in Interval 169-1037B-33X-3, 21-23 cm.</p>

SITE 1037 HOLE B CORE 34X Recovery 107% CORED 307.3 - 316.9 mbsf 1037B-34X

METERS	CORE AND SECTION	GRAIN SIZE very fine medium coarse granule	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO- STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
308 309 310 311 312 313 314 315 316 317	1 2 3 4 5 6 7 8				Unit VII		PAL		<p>CLAYSTONE</p> <p>Major Lithologies: Dark gray (5Y 4/1), homogeneous, calcareous CLAYSTONE throughout the entire core. A very small amount of authigenic dolomite(?) is found in a laminae in Section 169-1037B-34X-8, 29-30 cm.</p>	

METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
317	1	Very fine								<p>SILTY CLAYSTONE</p> <p>Major Lithologies: Dark greenish gray (5GY 4/1), moderately indurated, homogeneous, calcareous SILTY CLAYSTONE. Small (up to 2 cm in diameter) blebs of Fe-monosulfide (greigte?) are present in Interval 169-1037B-35X-3, 47 cm to -7, 25 cm. A large (5 cm diameter) carbonate nodule is present near the top of Section 169-1037B-35X-CC.</p>
318										
319	2									
320										
321	3									
322	4					Unit 7				
323	5									
324										
325	6									
326	7									

SITE 1037 HOLE B CORE 36X Recovery 52% CORED 326.5 - 336.0 mbsf 1037B-36X

METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
327 328 329 330 331	36X 1 2 3 4	very fine medium coarse very coarse granule			Unit VII					CLAYSTONE Major Lithologies: Dark greenish gray (5GY 4/1) CLAYSTONE. It occurs as "rock biscuits". Authigenic calcite of silty size occurs. Section 169-1037B-36X-3 probably contains a greigite-rich layer (1-2 mm) at 136 cm.

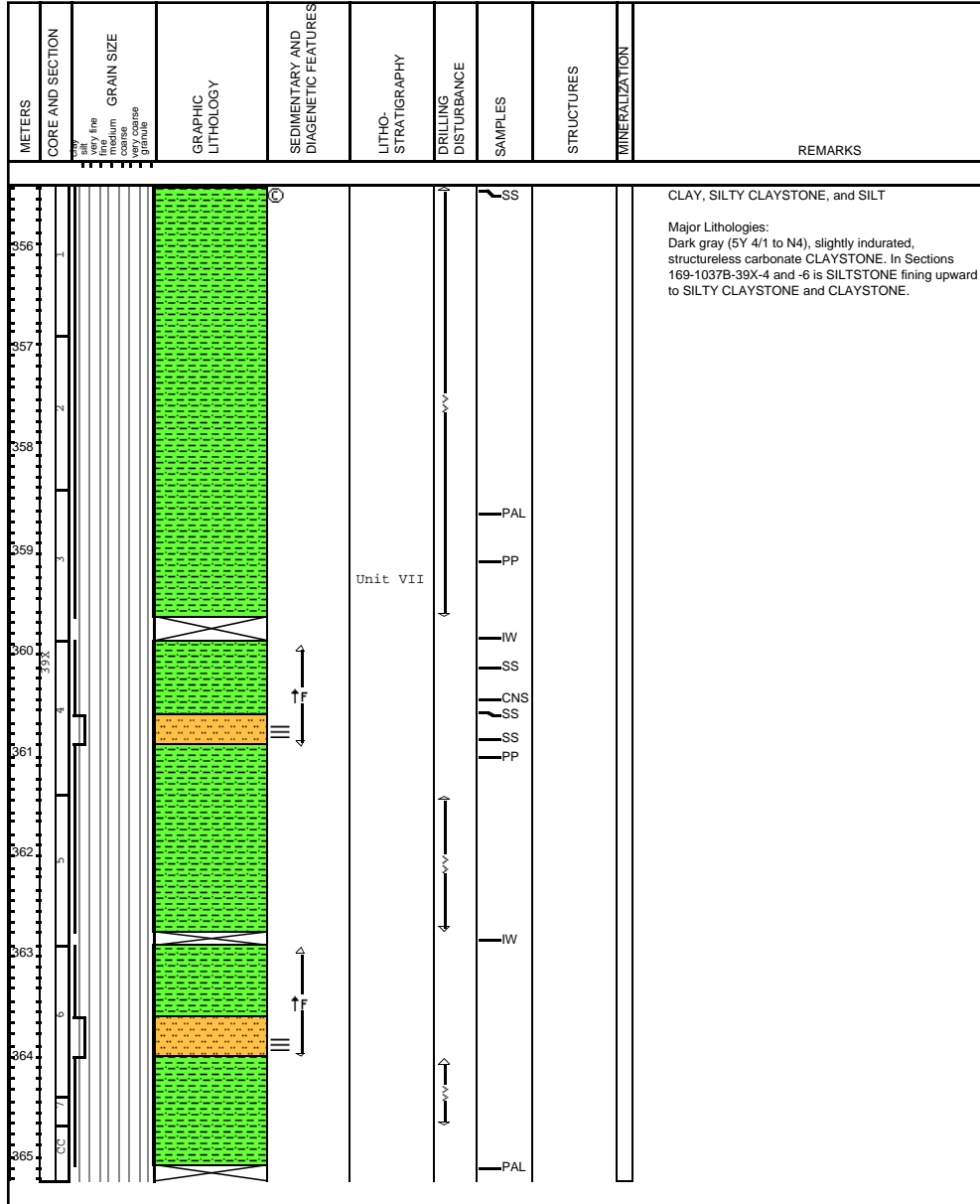
SITE 1037 HOLE B CORE 37X Recovery 96% CORED 336.1 - 345.7 mbsf 1037B-37X

MEETERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
337	1	Very fine Silt			Unit VII 				CLAYSTONE and SILTY CLAYSTONE Major Lithologies: Dark greenish gray (10Y 5), moderately indurated carbonate CLAYSTONE (rock biscuits). Sections 169-1037B-37X-3, 50-80 cm, -4, 0-84 cm, -5, 0-80 cm and -6, 0-15 cm are characterized by fining upward SILTY CLAY. Some intervals contain sulfide laminae and carbonate concretions.	
338	2	Medium Silt								
339	3	Medium Silt								
340	37X 4	Medium Silt								
341	5	Medium Silt								
342	6	Medium Silt								
343	7	Medium Silt								
344										
345										

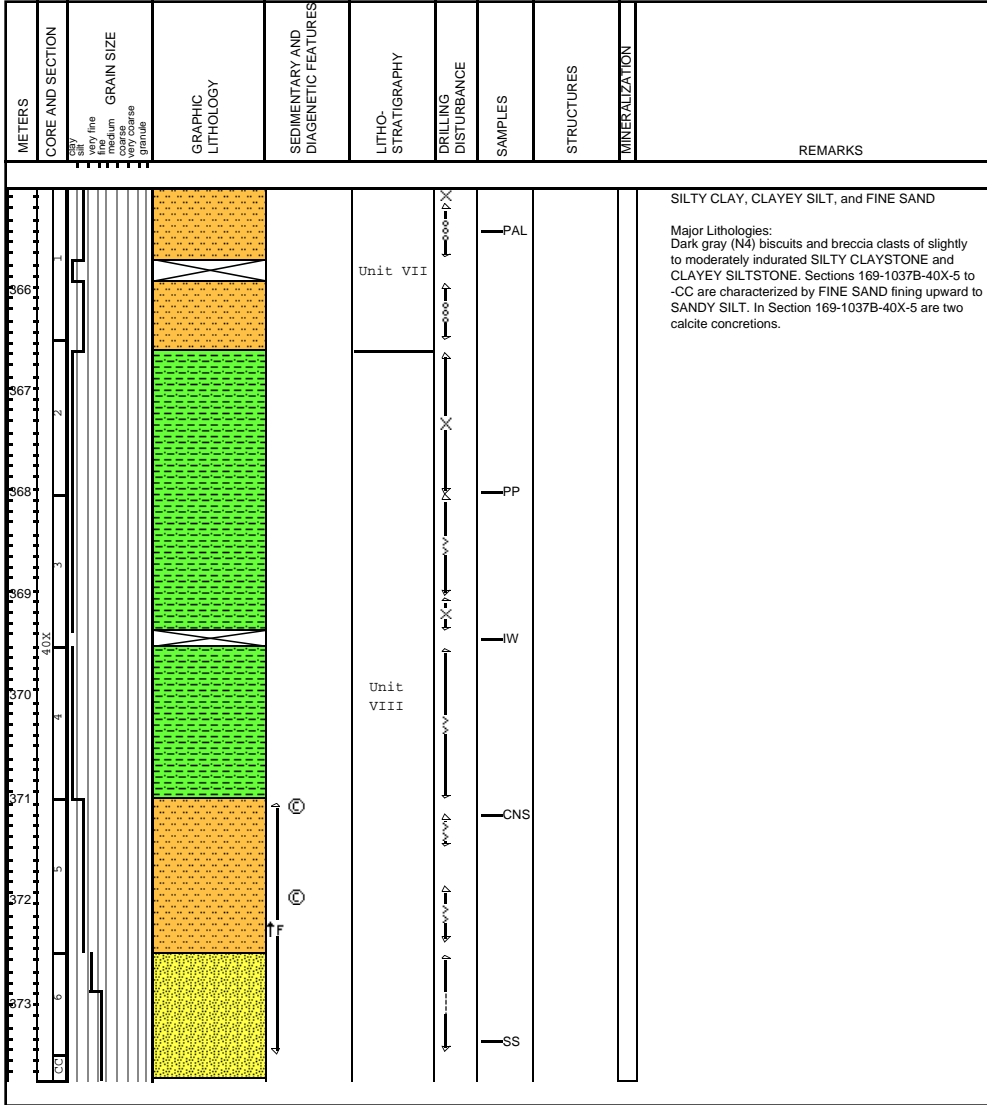
SITE 1037 HOLE B CORE 38X Recovery 97% CORED 345.7 - 355.4 mbsf 1037B-38X

METERS	CORE AND SECTION	GRAIN SIZE very fine fine medium coarse very coarse granular	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO- STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
346 347 348 349 350 351 352 353 354 355	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000	very fine fine medium coarse very coarse granular		Unit VII	CNS PP IW PP PAL	CNS PP IW PP PAL	CNS PP IW PP PAL	CNS PP IW PP PAL	CNS PP IW PP PAL	CLAYSTONE Major Lithology: Dark greenish gray (10Y 5), slightly indurated, structureless carbonate CLAYSTONE (rock biscuits). Calcite is present as authigenic crystals.

SITE 1037 HOLE B CORE 39X Recovery 102% CORED 355.4 - 365.0 mbsf 1037B-39X



SITE 1037 HOLE B CORE 40X Recovery 90% CORED 365.0 - 374.7 mbsf 1037B-40X

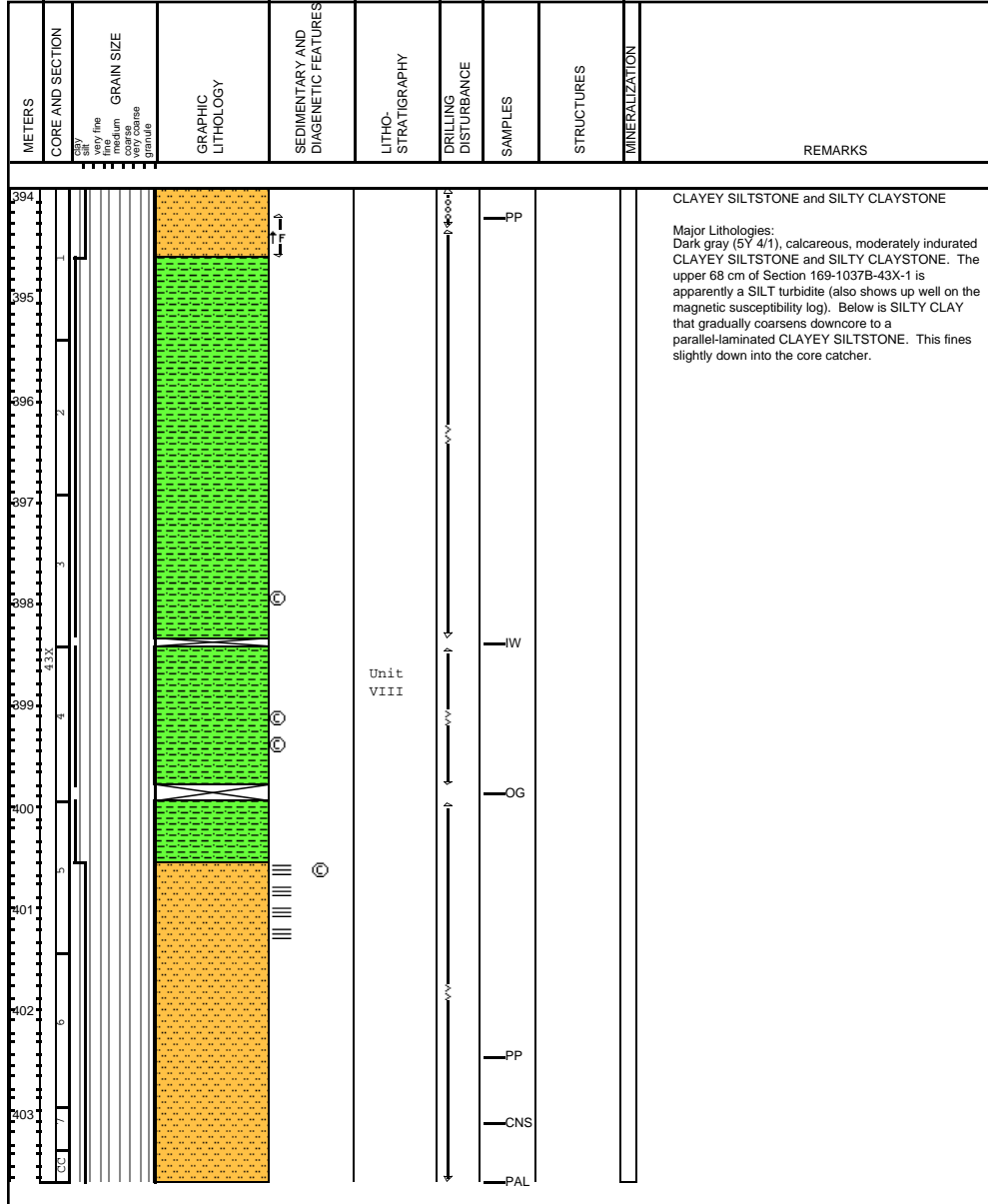


SITE 1037 HOLE B CORE 41X Recovery 38% CORED 374.7 - 384.3 mbsf 1037B-41X

METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
375 376 377 378		very fine medium coarse granular			Unit VIII		PP IW CNS PP PAL		FINE SAND Major Lithology: Dark greenish gray (5GY 4/1) FINE SAND which contains some carbonate cemented concretions of 1-2 cm in diameter.	

SITE 1037 HOLE B CORE 42X Recovery 55% CORED 384.3 - 393.9 mbsf 1037B-42X

METERS	CORE AND SECTION	GRAIN SIZE very fine medium coarse very coarse granule	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
385	1				Unit VIII					<p>CLAYEY SILTSTONE and SILTY CLAY</p> <p>Major Lithologies: In Sections 169-1037B-42X-1 and -2 is a micaceous, calcareous, dark gray (5Y4/1) CLAYEY SILTSTONE. It contains many small (mm-scale), tan blebs of calcite, apparently nodules, still soft, commonly elongated along bedding planes. The second lithology starts at Section 169-1037B-42X-2, 35 cm, and continues to the base of core. It is a slightly less calcareous, dark gray (5Y 4/1) SILTY CLAY, only weakly indurated.</p> <p>Disrupted, calcite-cemented, sandy laminae.</p>
386	2									
387	3									
388	4									
389	5									



SITE 1037 HOLE B CORE 44X Recovery 39% CORED 403.6 - 413.2 mbsf 1037B-44X

METERS	CORE AND SECTION	GRAIN SIZE Very fine fine medium coarse granular	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
404 405 406 407	44X 1 2 3 CC				Unit VIII					CLAYSTONE, SILTSTONE, and FINE SANDSTONE Major Lithologies: Dark greenish gray (5GY 4/1), massive, calcareous SILTY VERY FINE SAND in Sections 169-1037B-44X-3 and CC. In Sections 169-1037-44X-1 and 2 FINE SANDSTONE grades upward into SILTY VERY FINE SAND (40 TO 60 cm), CLAYEY SILT (25 to 40 cm), and SILTY CLAY (0 to 25 cm).

METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
414	1	very fine								<p>SILTY CLAYSTONE and CLAYEY SILTSTONE</p> <p>Major lithologies: Fining-upward, parallel-laminated, dark greenish gray (5GY4/1), calcareous CLAYEY SILTSTONE in Section 169-1037B-45X-1 from 11 to 111 cm and in Section 169-1037B-45X-CC. The remainder of the core is a homogeneous, calcareous, dark greenish gray (5GY4/1) SILTY CLAYSTONE. Several calcite nodules in the top 12 to 15 cm of the core have fallen in from above.</p>
415	2	medium			Unit VIII					
416	3	coarse								
417	4	fine								
418	CC									

SITE 1037 HOLE B CORE 46X Recovery 56% CORED 422.8 - 432.4 mbsf

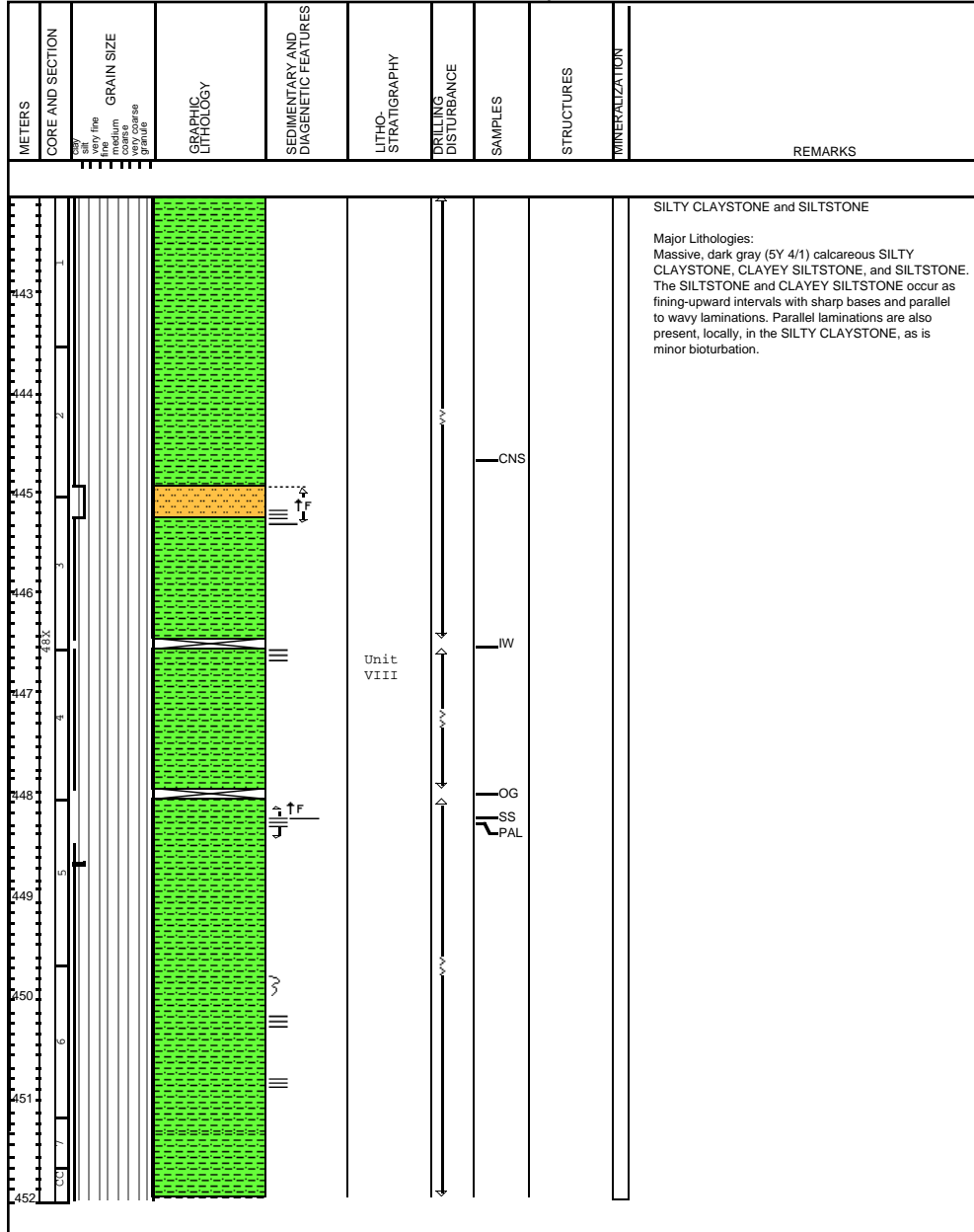
1037B-46X

1037B-47X

METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
423					Unit VIII					SILTY CLAYSTONE, CLAYSTONE, and SILTSTONE Major lithologies: The upper 52 cm of this core (Section 169-1037B-46X-1, 0-52 cm) consist of dark gray (5Y 4/1), parallel-laminated, calcareous SILTSTONE that fines upward. The SILTSTONE has a sharp basal contact with the dark gray (5Y 4/1), calcareous, massive SILTY CLAYSTONE that is the dominant lithology in this core. The SILTY CLAYSTONE has varying amounts of silt; locally, silt is absent and the dominant lithology is CLAYSTONE (Section 169-1037B-46X-2). A carbonate nodule is present in Section 169-1037B-46X-1, 20 cm.
424										
425										
426										
427										
428										

SITE 1037 HOLE B CORE 47X Recovery 31% CORED 432.4 - 442.0 mbsf

METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
433					Unit VIII					SILTSTONE and SILTY CLAYSTONE Major Lithologies: This core consists of an upper interval (Section 169-1037B-47X-1) of dark greenish gray (5GY 4/1) calcareous SILTY CLAY with a few calcite nodules (approximately 1 cm in diameter) and a lower interval (Sections 169-1037B-47X-2 and -CC) of homogeneous, dark greenish gray calcareous CLAYEY SILT.
434										
435										



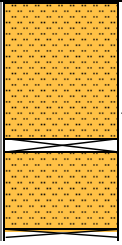

SITE 1037 HOLE B CORE 49X Recovery 99% CORED 451.6 - 461.3mbsf

1037B-49X

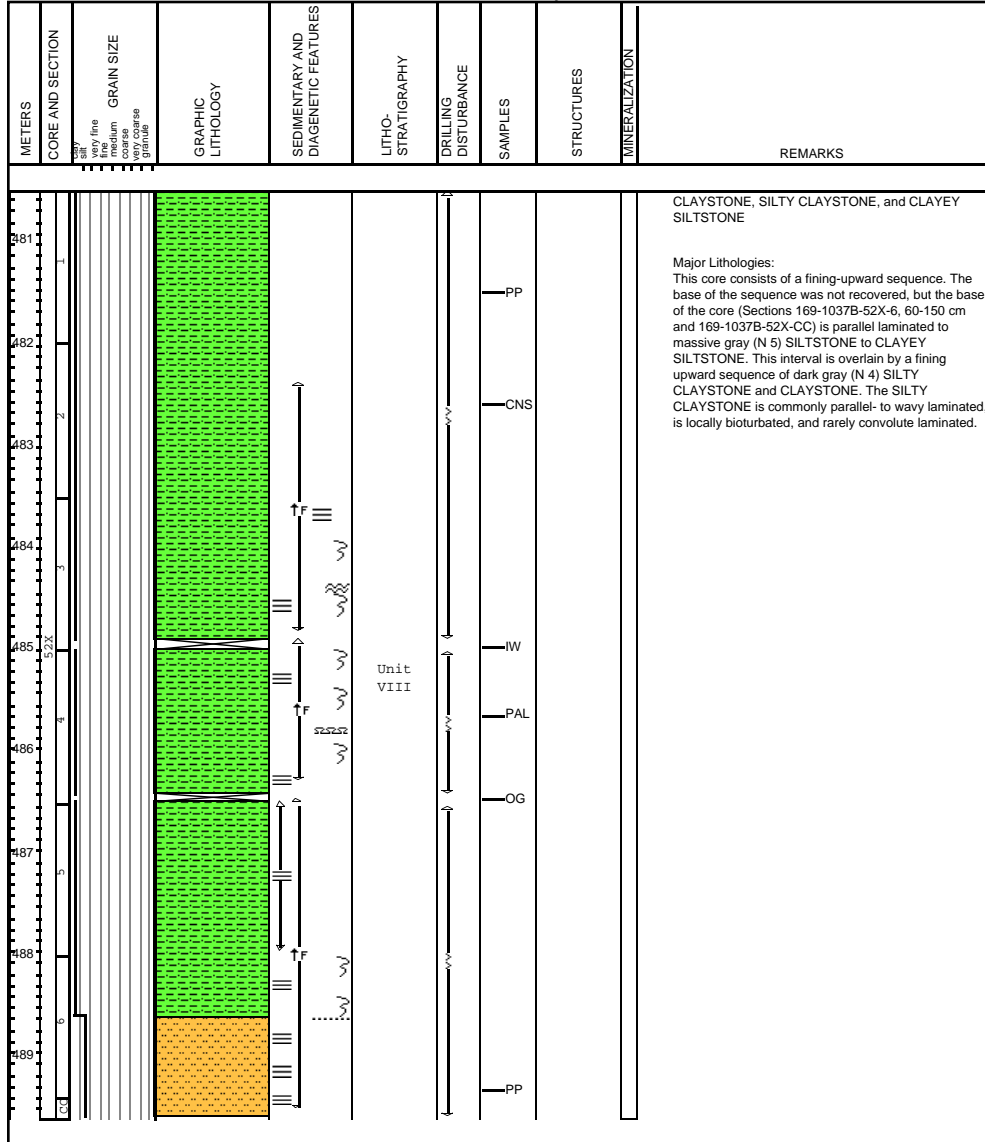
METERS	CORE AND SECTION	GRAIN SIZE <small>very fine SILT medium coarse fine sand granule</small>	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO- STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
52 53 54 55 56 57 58 59 60 61	1 2 3 4 5 6 7 8 9 10				Unit VIII		CNS SS PP W	PAL	<p>SILTY CLAYSTONE and SILT</p> <p>Major Lithologies: Dark gray (5Y 4/1), calcareous SILTY CLAYSTONE with some faint laminations and bioturbation. This core contains one fining upward SILTSTONE turbidite in Sections 169-1037B-49X-7, 9 cm to 49X-6, 138 cm.</p>	

METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
462	1	very fine			Unit VIII					<p>CLAYSTONE</p> <p>Major Lithologies: Equally spaced dark gray (N4) CLAYSTONE biscuits. One piece in Section 169-1037B-50X-CC, 30 cm is a CLAYEY SILTSTONE.</p>
463	2	fine								
464	3	medium								
465	4	coarse								
466	5	very coarse								
467	6	granular								
468	7									
469	8									
470	9									
471	10									

SITE 1037 HOLE B CORE 51X Recovery 23% CORED 470.9 - 480.5 mbsf 1037B-51X

METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
471 472 473	51X 1 2 CC	very fine medium coarse granular			Unit VIII		PP IW CNS PAL			<p>SILTSTONE to VERY FINE SANDSTONE</p> <p>Major Lithologies: Gray (N5) highly fractured, slightly indurated biscuits of SILTSTONE. Pieces of VERY FINE SANDSTONE occur in Section 169-1037B-51X-1.</p>

SITE 1037 HOLE B CORE 52X Recovery 94% CORED 480.5 - 490.1 mbsf 1037B-52X



SITE 1037 HOLE B CORE 53X Recovery 34% CORED 490.1 - 495.6 mbsf

1037B-53X

1037B-54X

1037B-55X

METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
491 53X 492		Very fine medium coarse very coarse granule			Unit VIII		SS IW			<p>SANDY SILTSTONE</p> <p>Major lithology: Gray (N5), weakly to moderately indurated, very calcareous SANDY SILTSTONE. The core is very disturbed by drilling.</p>

SITE 1037 HOLE B CORE 54X Recovery 7% CORED 495.6 - 499.7 mbsf

METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
54.2		Very fine medium coarse very coarse granule					PAL			<p>CLAYSTONE</p> <p>Major lithology: Dark gray (N4), homogeneous, well indurated, partly silicified, calcareous CLAYSTONE. The core is very disrupted by drilling.</p>

SITE 1037 HOLE B CORE 55X Recovery 21% CORED 499.7 - 501.2 mbsf

METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
500		Very fine medium coarse very coarse granule					IW			<p>CLAYSTONE</p> <p>Major Lithologies: Dark gray (N4), homogeneous, very well indurated, calcareous silicified CLAYSTONE is overlain by less silicified calcareous CLAYSTONE. This core was very disturbed by drilling. The core catcher sample was retrieved with a drill and an air hammer.</p>

SITE 1037 HOLE B CORE 56R Recovery 23% CORED 501.2 - 507.2 mbsf

1037B-56R

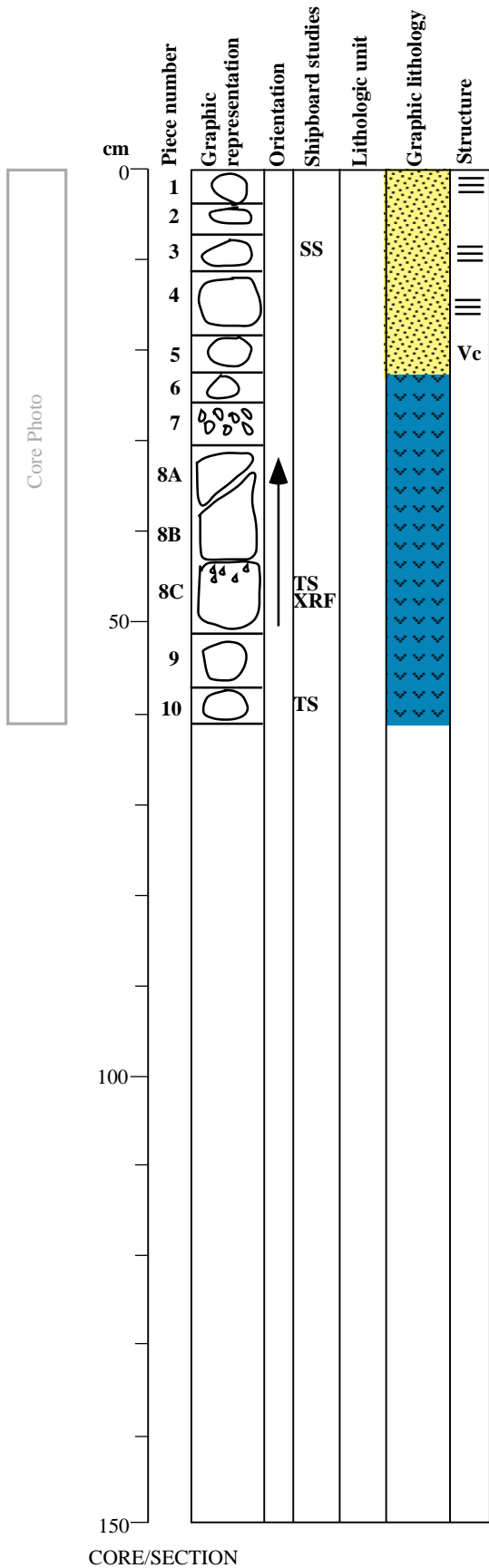
1037B-57R

METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
507 506 505 504 503 502	56R	Very fine medium coarse very coarse granule					IW			<p>SILTY CLAYSTONE</p> <p>Major Lithologies: Dark to very dark gray (10YR 3/1 to 10YR 4/1), indurated, noncalcareous and slightly siliceous SILTY CLAYSTONE. The strata are parallel laminated throughout, bioturbated, locally exhibit convolute bedding, and have at least one sharp-based fining-upward sequence. Small (sub-mm scale), white blebs of quartz are disseminated throughout the core.</p>

SITE 1037 HOLE B CORE 57R Recovery 5% CORED 507.8 - 517.3 mbsf

METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
517 516 515 514 513 512 511 510 509 508	57R	Very fine medium coarse very coarse granule					SS PP XRA SS			<p>SILTSTONE, FINE SANDSTONE and BASALT</p> <p>Major lithologies: Four main lithologies are represented in this core: (1) Brown (10YR5/3), faintly parallel-laminated SILTSTONE occurs from Section 169-1037B-57R-1, 0 to 4 cm, 7 to 22 cm, and 26 to 31 cm. (2) Brown (10YR5/3), FINE SANDSTONE, with large euhedral biotite (imparts the brown color), zoned feldspar, and overgrown quartz occurs from 22 to 26 and 57 to 62 cm in the same section. (3) A light gray (N6) calcite nodule that is about 90% calcite and a bit of quartz and feldspar occurs from 4 to 7 cm. (4) Very dark gray (N3), BASALT with upper and lower fine-grained, darker chilled margins and coarser interior occurs from 31 to 57 cm. Interior contains mm-long white feldspar crystals, fresh black 0.5 to 1.0 mm-long grains of pyroxene concentrated from 41 to 46 cm. Interior also has a cream-colored vesicular fill of zeolites or celadonite from 44 to 46 cm. Authigenic actinolite, octahedral pyrite, quartz, and calcite are all present in voids.</p>

169-1037B-57R-1
Top of Core 57R - 507.8 mbsf



Pieces 1, 3, 4, 5, 7

ROCK TYPE: SILTSTONE
COLOR: Brown (10YR 5/3)
TEXTURE: Faintly parallel laminated. Piece 5 has a 0.5 mm calcite vein.

Piece 2

ROCK TYPE: CALCITE
COLOR: Gray (N6)
TEXTURE: Nodule, 90% calcite with quartz and feldspar.

Pieces 6 and 10

ROCK TYPE: FINE SANDSTONE
COLOR: Brown (10YR 5/3)
TEXTURE: Recrystallized euhedral brown biotite, zoned feldspar.

Pieces 8 and 9

ROCK TYPE: BASALT
COLOR: Gray
COMMENTS: Fine-grained, chilled margin at the top of Piece 8. Plagioclase crystals are 1 - 2 mm long, altered pyroxene grains are dark, but fade to green when powdered (actinolite?).

CORE/SECTION

169-1037B-58R-1
 Top of Core 58R - 517.3 mbsf

Pieces 1-10

ROCK TYPE: BASALT

CONTACTS: None

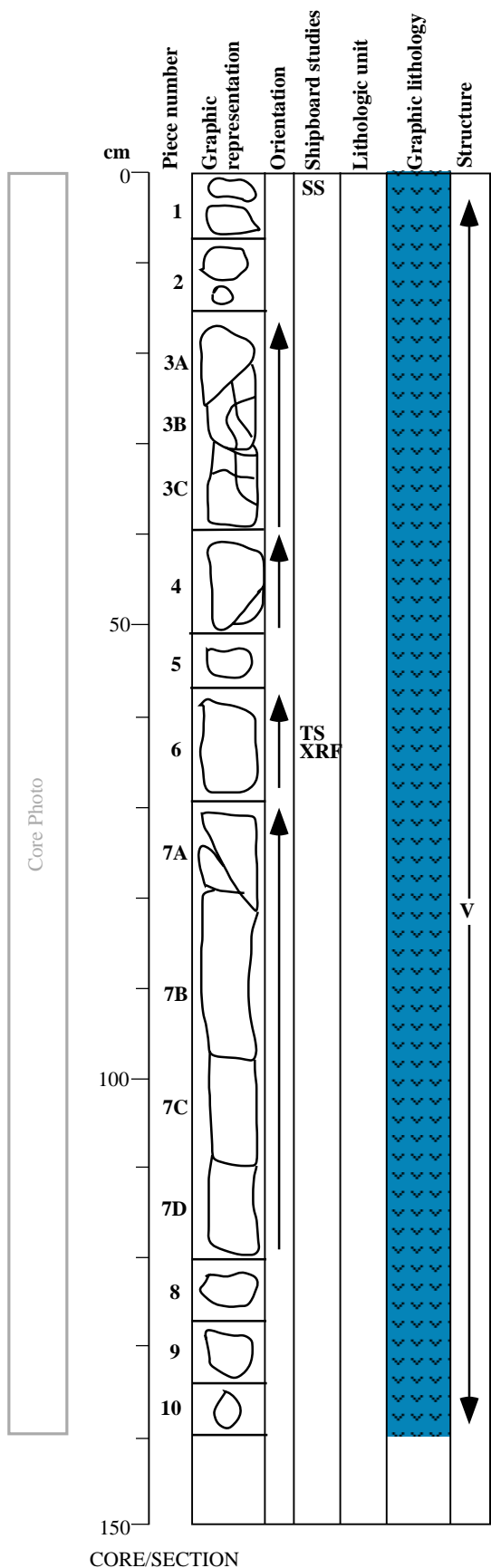
COLOR: Green gray

MAJOR MINERALS:

Altered plagioclase and pyroxene

COMMENTS: Fine-grained basalt with plagioclase phenocrysts, pyroxenes all altered to actinolite. Subrounded patches of green chlorite/smectite present. Plagioclase laths are 1-2 mm long, and constitute less than 20% of the rock. Veins, less than 1 mm thick, consisting of calcite, with selvages of chlorite are in Pieces 3, 4, 7, and 8.

Note: Piece 1 is a fine- to medium-grained, highly metamorphosed sandstone that contains epidote and biotite and probably fell into the hole.



CORE/SECTION

169-1037B-58R-2
Top of Core 58R - 517.3 mbsf

Pieces 1-15

ROCK TYPE: BASALT

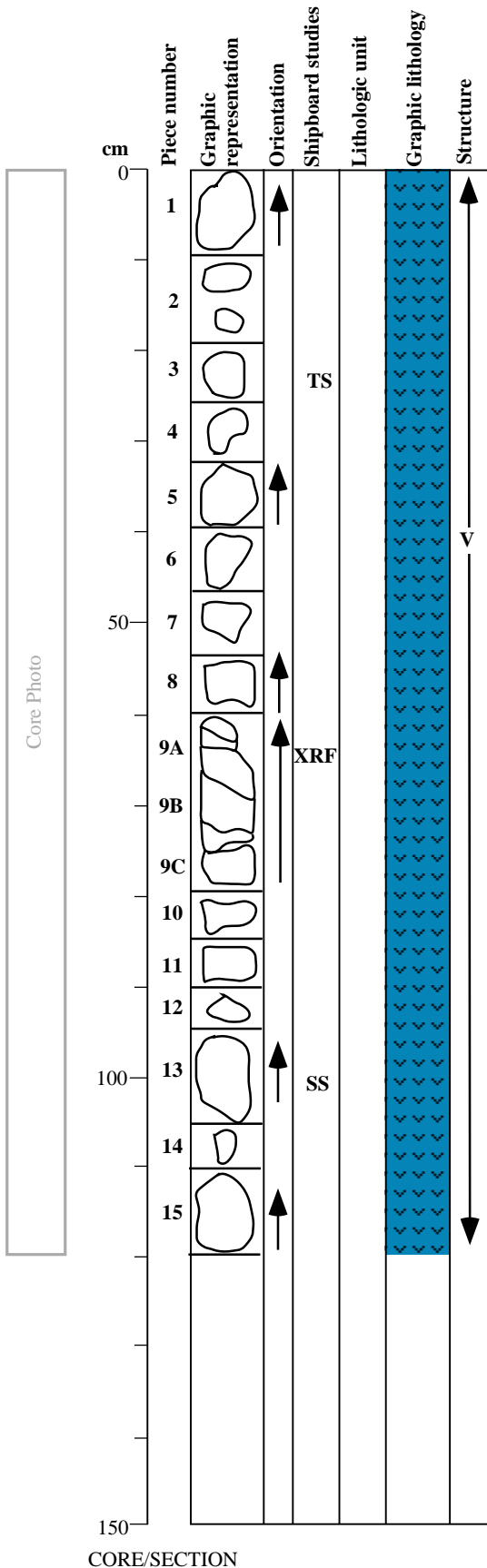
CONTACTS: None

COLOR: Gray green

MAJOR MINERALS:

Altered plagioclase and pyroxene.

COMMENTS: Very fine-grained, in parts microcrystalline, with mm-sized laths of plagioclase and black specks of pyroxene altered to actinolite. Chlorite and amphibole seem to be the major groundmass components. Abundant veins of actinolite are present. Thicker veins in Pieces 8, 9, 10, and 13 have grayish white selvages around them, possibly silicification. Vein thickness varies from <1 to 3 mm. Veins in Pieces 8, 9, 10, and 13 were open space, now filled with euhedral actinolite needles. Some veins contain chlorite and calcite. Piece 3 has a thin vein of a yellowish material surrounded by a gray selvage, rich in magnetite (high magnetic susceptibility). Piece 1 has a vertical boundary, very fine-grained on one side, that could be a chilled margin. Numerous veins are truncated at this boundary and may be slightly offset. There also appears to be a chilled margin in Piece 3. Broken, quenched, hyaloclastic fragments with concentric alteration rinds are in Pieces 4, 5, and 6.



CORE/SECTION

169-1037B-59R-1
Top of Core 59R - 526.8 mbsf

Pieces 1-20

ROCK TYPE: BASALT

CONTACTS: None

COLOR: Gray green

MAJOR MINERALS:

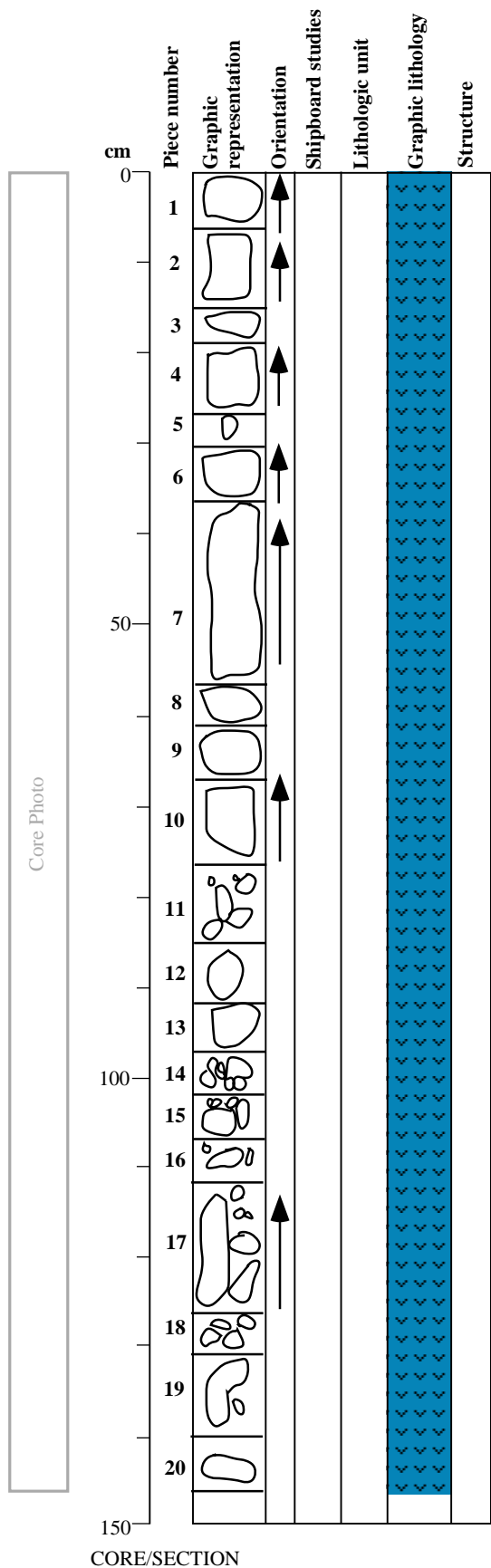
Altered plagioclase and pyroxene

COMMENTS:

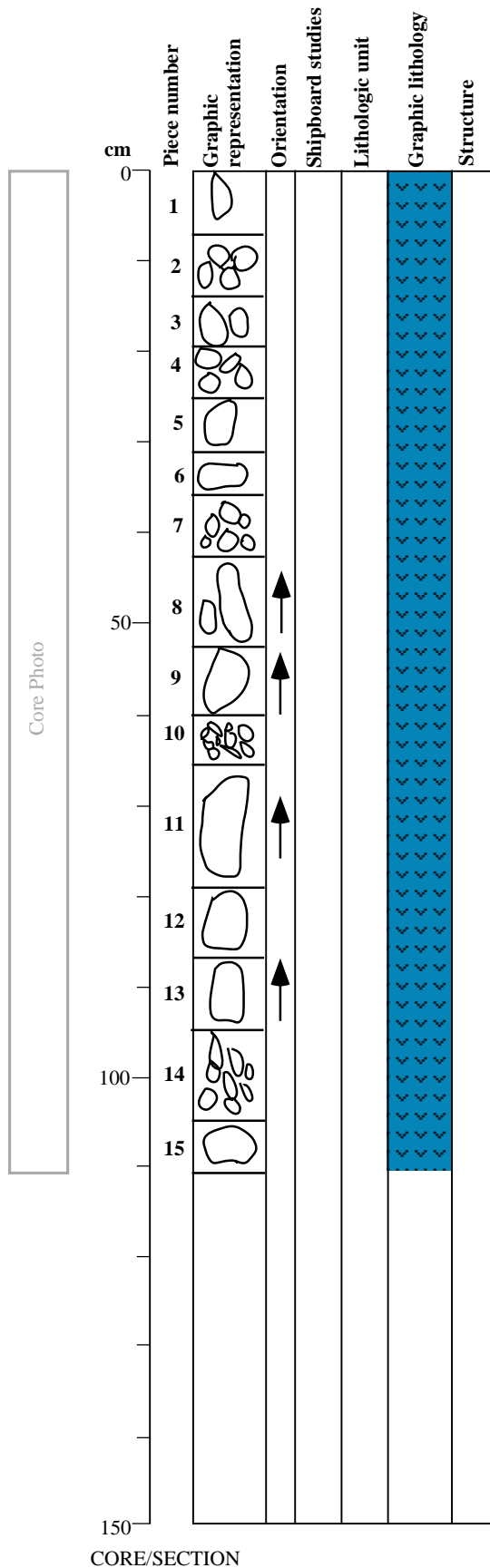
Pieces 1-7: Very fine-grained porphyritic basalt with abundant acicular plagioclase phenocrysts and stubby, equant, clinopyroxene. Clinopyroxene is altered to actinolite-chlorite. Groundmass is gray. A chilled upward, sub-horizontal margin occurs in Piece 4. Numerous sub-horizontal irregular veins (0.5 to 2 mm wide) filled with whiskery actinolite and botryoidal clays or zeolites are present. Veins may connect elongate, subhorizontal vugs/cavities. Aphyric, 8 mm bleached/quench zones are around vugs and veins. Piece 7 has a conjugate set of veins/fractures and a faint oxidative staining.

Pieces 8-10: Transition from very fine-grained basalt to intensely altered, dessicated basalt. A subvertical contact between relatively fresh basalt and slightly coarser grained material that displays exfoliative dessication (Pieces 8 and 9). Numerous chloritic subvertical fractures are in Piece 10.

Pieces 11-20: Fine- to medium-grained basalt. Pieces were coherent when initially recovered, crosscut by numerous chlorite-filled veins/fractures. On drying, intense dessication results in flakey, spheroidal exfoliation and disaggregation. Suggested mineralogy: albitized plagioclase, chlorite/smectite, and actinolite. No sulfate.



169-1037B-59R-2
Top of Core 59R - 526.8 mbsf



Pieces 1-15

ROCK TYPE: BASALT

CONTACTS: None

COLOR: Gray green

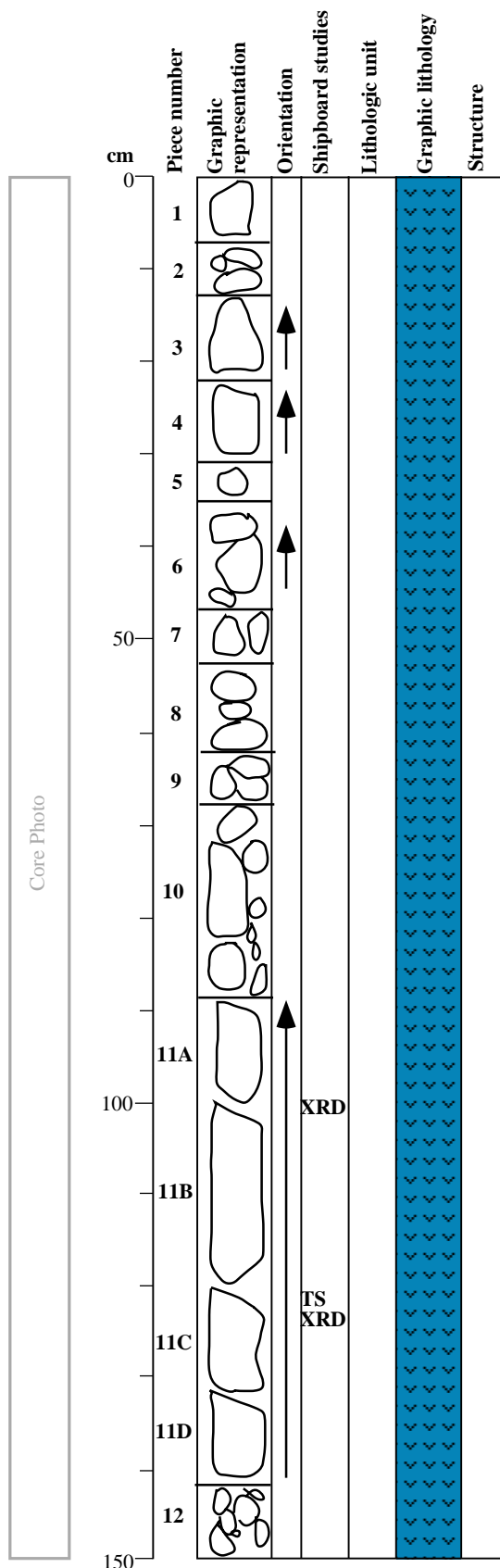
MAJOR MINERALS:

Altered plagioclase and pyroxene.

COMMENTS: Very fine-grained to medium-grained plagioclase-phyric basalt exhibiting variable degrees of exfoliative dessication. Pieces 11, 12, and 13 are very fine grained and cut by subvertical clay/smectite veins. Dessication is more advanced in coarser grained rocks.

169-1037B-60R-1
Top of Core 60R - 529.4 mbsf

Pieces 1-12



ROCK TYPE: BASALT

CONTACTS: None

COLOR: Green gray

MAJOR MINERALS:

Altered plagioclase and pyroxene

COMMENTS: Fine- to medium-grained, vesicular, intersertal to subophitic altered basalt. Displays various degrees of exfoliative dessication. Amygdaloidal (5% filled vesicles), larger vesicles commonly occur in linear arrays. Vesicles are more common in Pieces 7 - 12. Most vesicles are completely filled with green, platy phyllosilicates (chlorite-smectite). Piece 11 is less intensely disaggregated and primary igneous textures are apparent. Abundant clinopyroxene is altered to actinolite. Mesostasis is greenish in patches, presumably altered to chlorite, smectite, and actinolite.

CORE/SECTION

169-1037B-60R-2
Top of Core 60R - 529.4 mbsf

Pieces 1-12

ROCK TYPE: BASALT

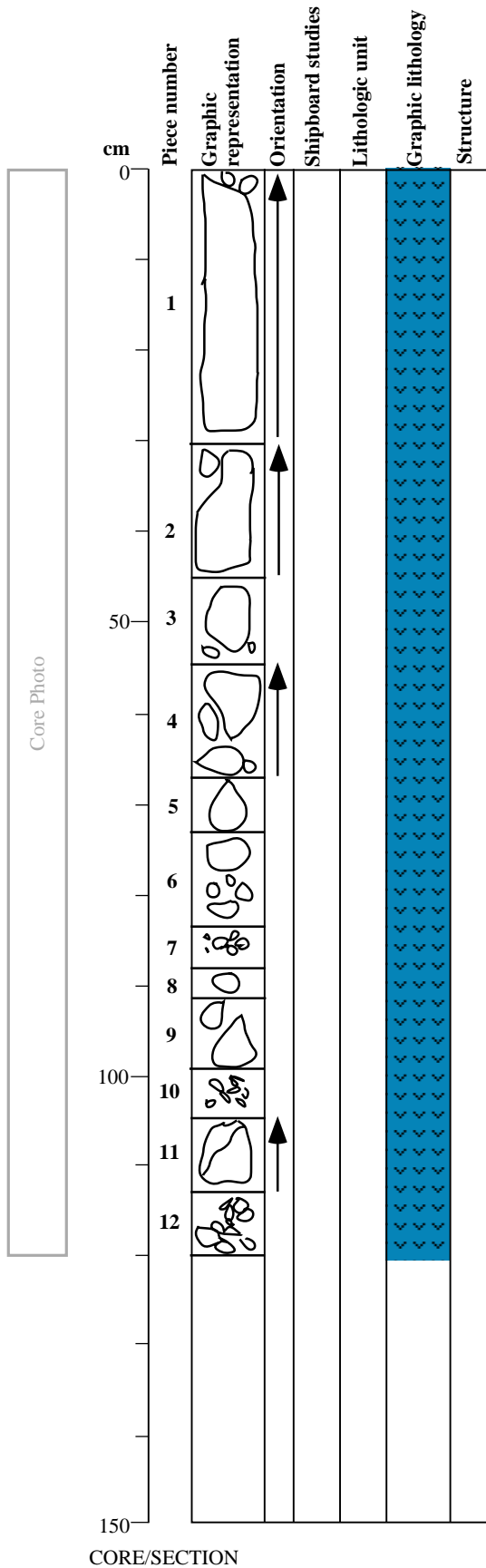
CONTACTS: None

COLOR: Green gray

MAJOR MINERALS:

Altered plagioclase and pyroxene

COMMENTS: Fine- to medium-grained and vesicular. Strongly to completely disrupted by exfoliative dessication. Pieces 1, 2, and 11 are coherent enough to retain an igneous texture. Abundant, 1-3 mm clay/chlorite filled vesicles are commonly occur in concentrically aligned arrays. The basalt has an intersertal to subophitic texture. Conjugate, chlorite-filled fractures occur throughout the section, and are well preserved in Piece 1. Piece 11 is a medium-(aspiring to be coarse) grained basalt. Plagioclase (3 mm long) crystals are in an altered, green chlorite/smectite/actinolite groundmass.



CORE/SECTION

169-1037B-61R-1
Top of Core 61R - 533.9 mbsf

Pieces 1-2

ROCK TYPE: BASALT

CONTACTS: None

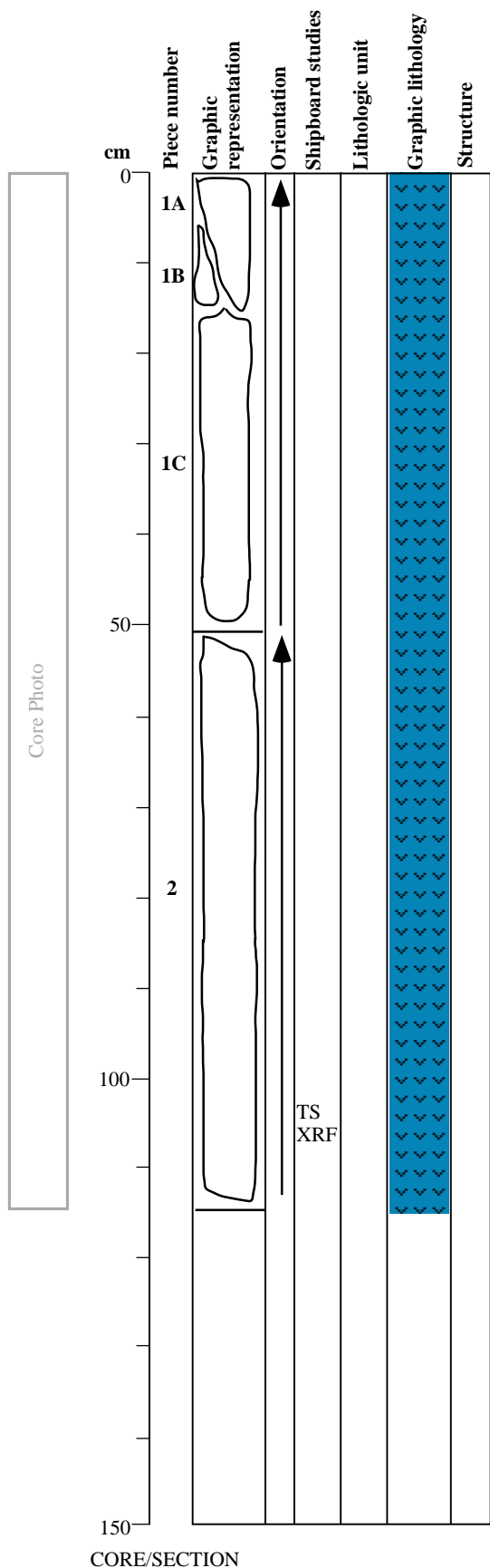
COLOR: Gray

MAJOR MINERALS:

Plagioclase, altered

Clinopyroxene, altered

COMMENTS: Fine- to medium-grained and structureless apart from steeply dipping fractures in Piece 1. Slightly vesicular, with vesicles up to 5 mm filled with a pale green smectite-chlorite mixture. Mesostasis appears more altered at the base of Piece 1.



CORE/SECTION

169-1037B-62R-1
 Top of Core 62R - 538.0 mbsf

Pieces 1-5

ROCK TYPE: BASALT

CONTACTS: None

COLOR: Bluish gray

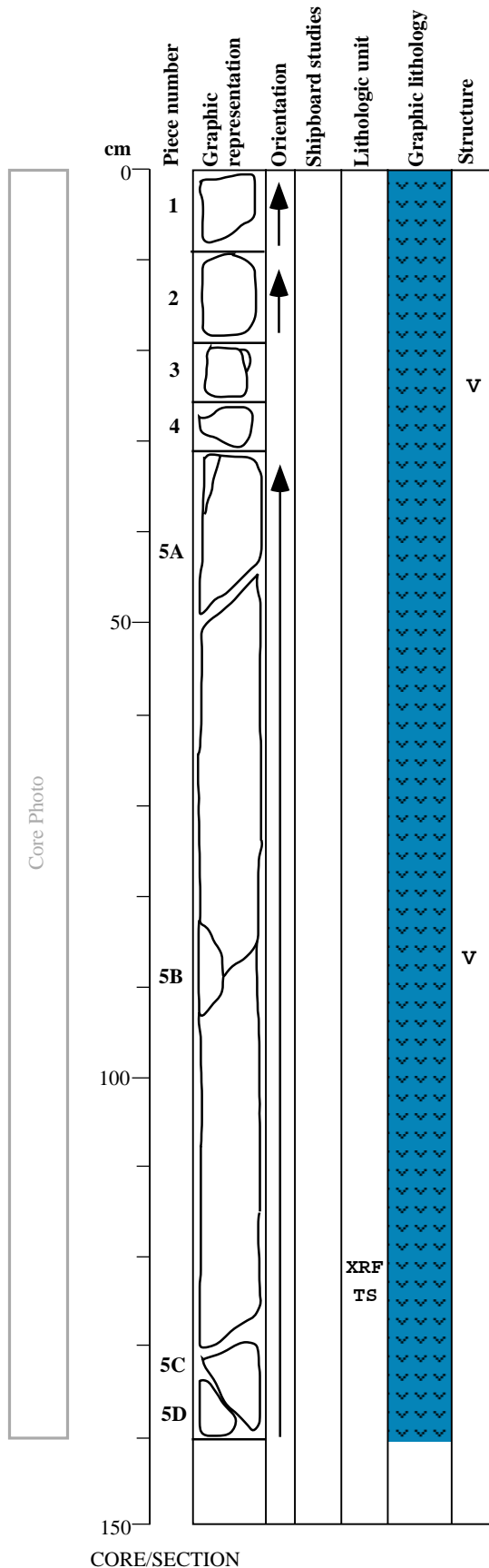
MAJOR MINERALS:

Plagioclase, 40%

Clinopyroxene, few percent

COMMENTS: Medium-grained, homogeneous, plagioclase-phyric basalt.
 1-2 mm long feldspar laths, in a matrix of green chlorite with larger crystals of altered pyroxene.

VEINS: A few thin, irregular veins of green, platy chlorite and white zeolites in rounded blebs.



CORE/SECTION

169-1037B-62R-2
Top of Core 62R - 538.0 mbsf

Pieces 1-3

ROCK TYPE: BASALT

CONTACTS: None

COLOR: Bluish gray

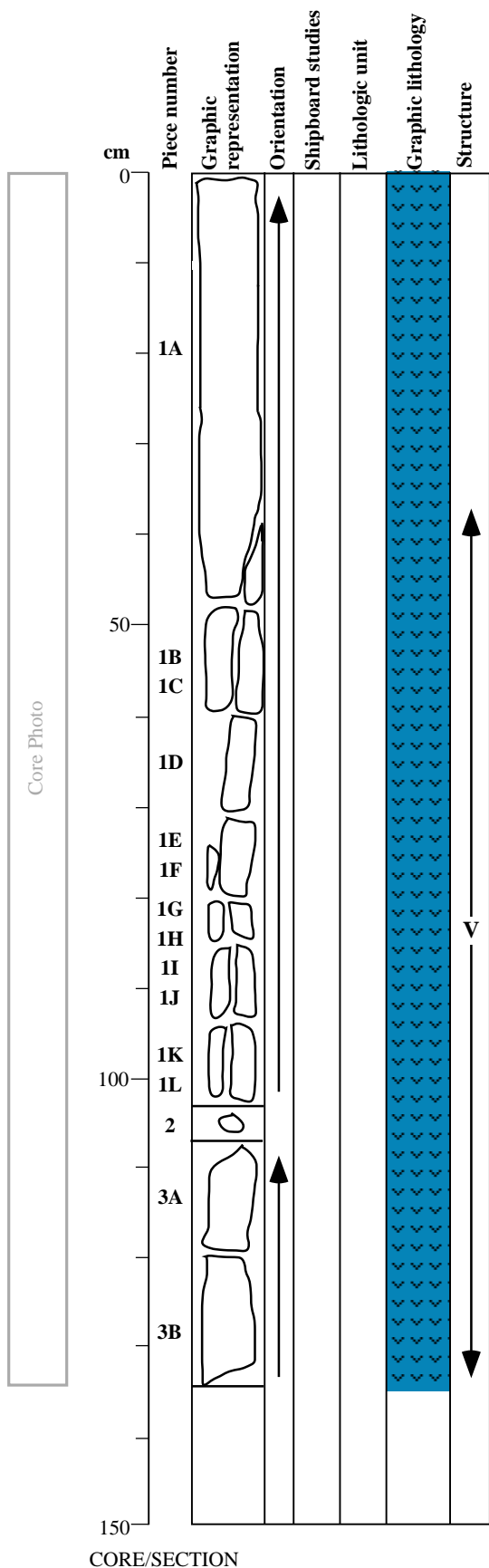
MAJOR MINERALS:

Plagioclase, 30-35%

Clinopyroxene, few percent

COMMENTS: Medium-grained and homogeneous, grain size appears to increase slightly down section, and this section is more coarse grained than Section 169-1037B-62R-1. 1- to 3-mm-long feldspar laths are embedded in a greenish matrix of chlorite.

VEINS: There is a long, 2- to 3-mm-wide, subvertical vein of white, radiating aggregates of zeolite from 38-133 cm. In places this vein also has blue-green patches, possibly zeolites or clays or chlorite.



169-1037B-62R-3
Top of Core 62R - 538.0 mbsf

Pieces 1-7

ROCK TYPE: BASALT

CONTACTS: None

COLOR: Bluish gray

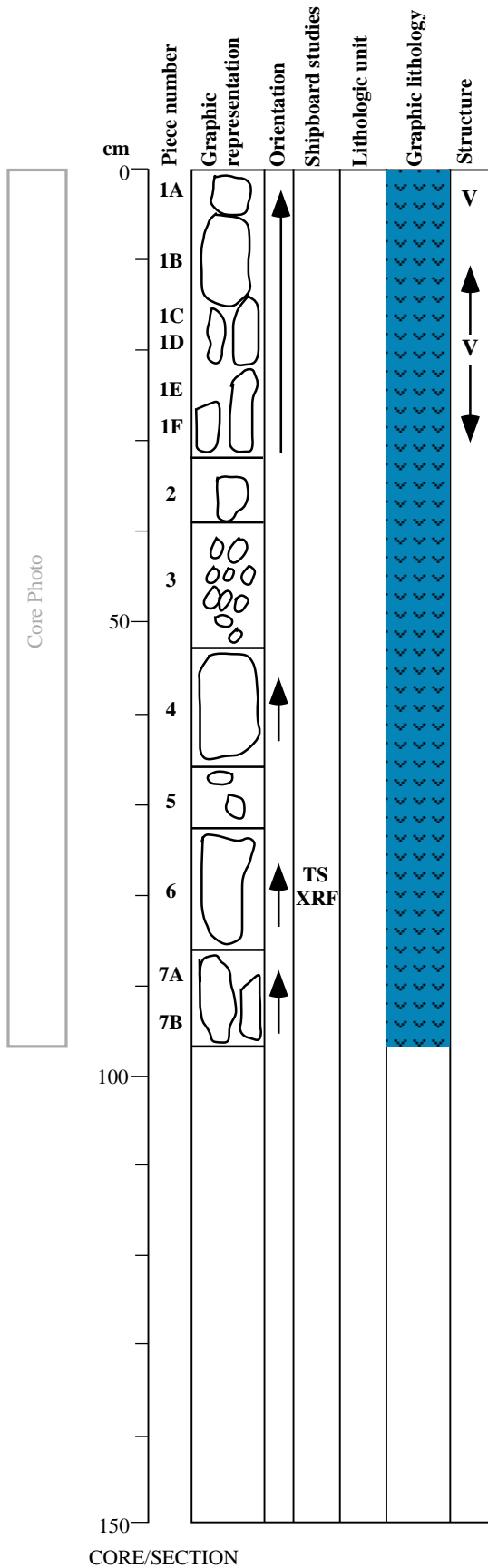
MAJOR MINERALS:

Plagioclase, 45-50%

Clinopyroxene, few percent

COMMENTS: Grain size increases down section, and is relatively coarse in Pieces 6 and 7. Plagioclase phenocrysts as large as 4 mm. Ferromagnesian minerals are green to black and 2 mm.

VEINS: 2- to 3-mm-long, subvertical veins of white, patchy, radiating aggregates of zeolites and greenish patches of chlorite.



CORE/SECTION